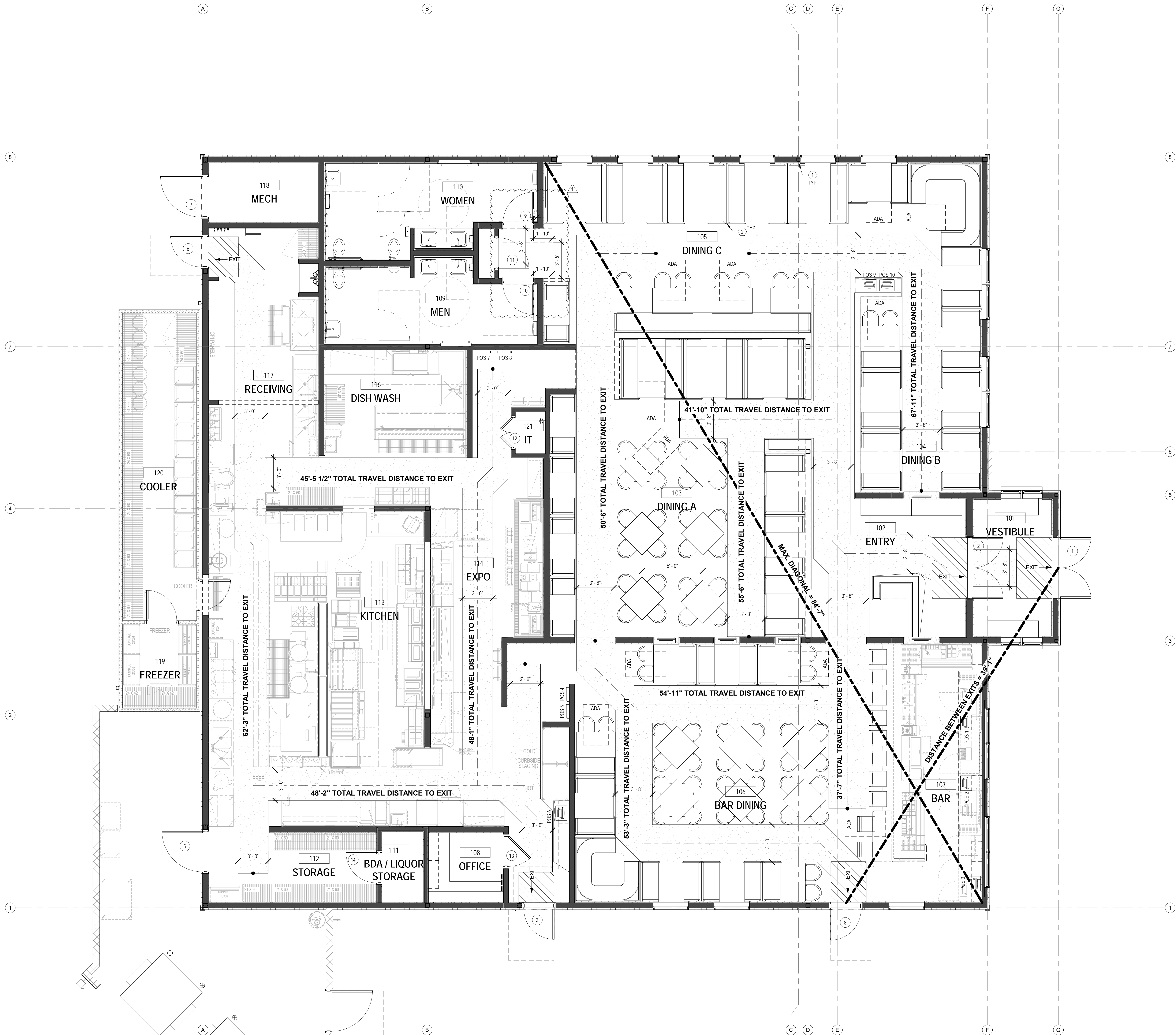



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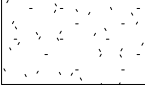


KEYNOTES - LIFE SAFETY			
1	INSTALL CHAIR RAIL ON BACK OF BOOTH ONCE INSTALLED		
2	PROVIDE 4" FILLER TRIM BETWEEN BOOTHS		
BUILDING DATA			
GROSS BUILDING AREA		5,827 SQ. FT.	
COOLER / FREEZER		315 SQ. FT.	
DUMPSTER ENCLOSURE		590 SQ. FT.	
TOTAL		6,732 SQ. FT.	
OCCUPANCY LOAD CALCULATION			
USE	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	OCCUPANCY AMOUNT
DINING ROOM	-	-	148
BAR DINING	-	-	62
BAR/POS/LIQUOR	196	200	1
ENTRY/VESTIBULE	234	5	47
KITCHEN	2016	200	11
MECHANICAL	79	200	1
OFFICE	74	100	1
TOTAL			271
EGRESS CALCULATION 271 x .2 = 55			
REQUIRED EGRESS WIDTH	55 IN.		
PROVIDED EGRESS WIDTH	170 IN.		
EXIT OCCUPANT LOADS			
DOOR #	EGRESS WIDTH	OCCUPANCY LOAD	
#1	46 IN.	195	
#3	34 IN.	6	
#6	34 IN.	6	
#8	34 IN.	63	

KEYNOTES - EGRESS		
1	TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS.	
A)	EACH GRADE LEVEL EXTERIOR DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT WITH THE WORD "EXIT"	
B)	EACH EXIT, EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE"	
SEATING COUNT		
TYPE	COUNT	TOTAL
2 TOP BOOTH x	5	10
4 TOP BOOTH x	19	76
6 TOP BOOTH x	8	48
6 TOP ROUND x	1	6
BAR/STOOL CHAIRS x	1	10
6 TOP ROUND x	8	48
4 TOP TABLE x	12	48
4 TOP BANQUETTE x	3	12
2 TOP BANQUETTE x	1	2
TOTAL DINING:	50	220
SEATING COUNT REQUIRED ACCESSIBLE		
SEATS: 220	X .05 =	11 SPACES REQ'D
FURNISHING NOTES		
1	EXTERIOR SIGNAGE BY OWNER, G.C. TO COORDINATE FINAL LOCATIONS AND MOUNTING REQUIREMENTS WITH SIGNAGE VENDOR. RE: EXTERIOR ELEVATIONS FOR HEIGHTS	

*FIXED SEATING DETERMINED USING FOLLOWING FORMULA:
18 LINEAR INCHES=1 OCCUPANT

 CLEAR FLOOR EXIT SPACE

 EXIT PATH

2010 ADA Standards for Accessible Design for Public Accommodations and Commercial Facilities: Title III CHAPTER 3 BUILDING BLOCKS

301.1 General. The provisions of Chapter 3 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

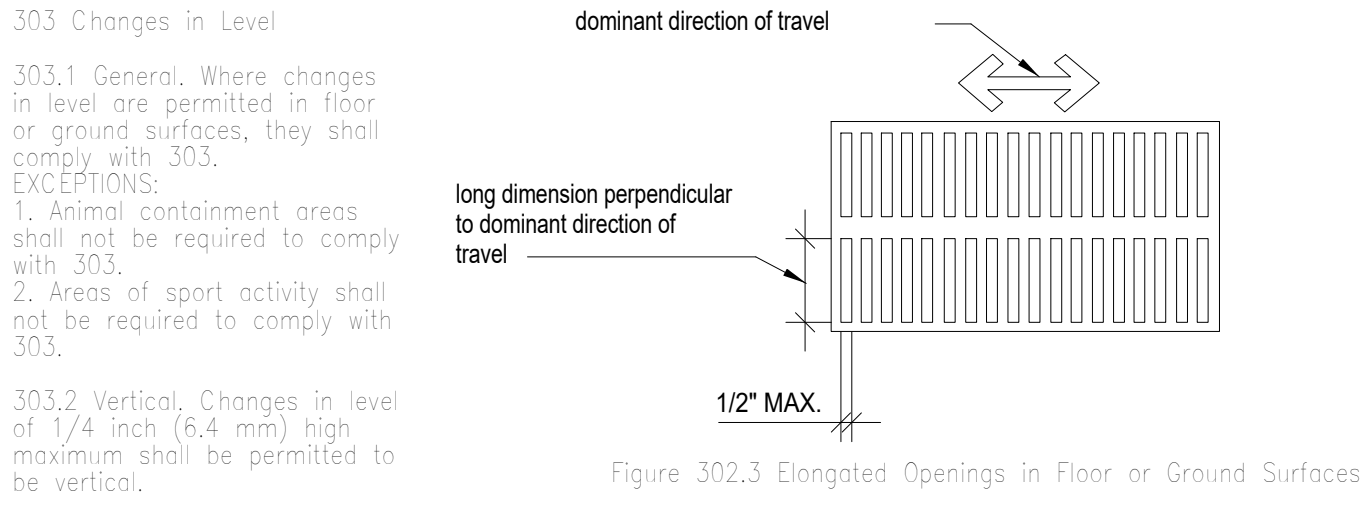
302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302. EXCEPTIONS:

1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/loop pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.



303 Changes in Level

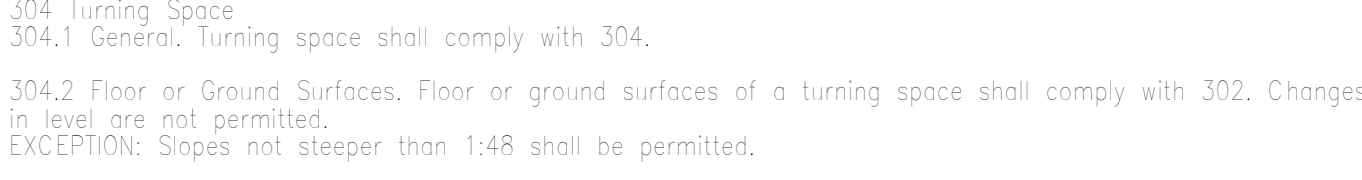
303.1 General. Where changes in level are permitted in floor or ground surfaces, they shall comply with 303. EXCEPTIONS:

1. Animal containment areas shall be required to comply with 303.
2. Areas of sport activity shall not be required to comply with 303.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.



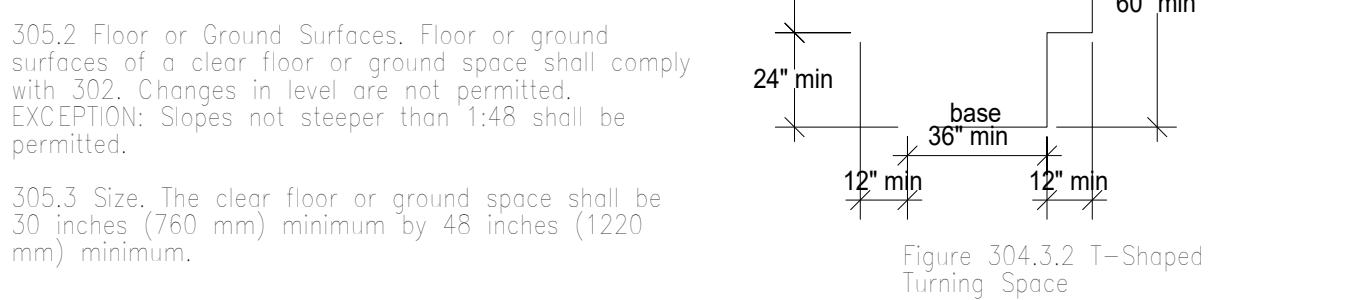
304 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

305 Clear Floor or Ground Space

305.1 General. Clear floor or ground space shall comply with 305.

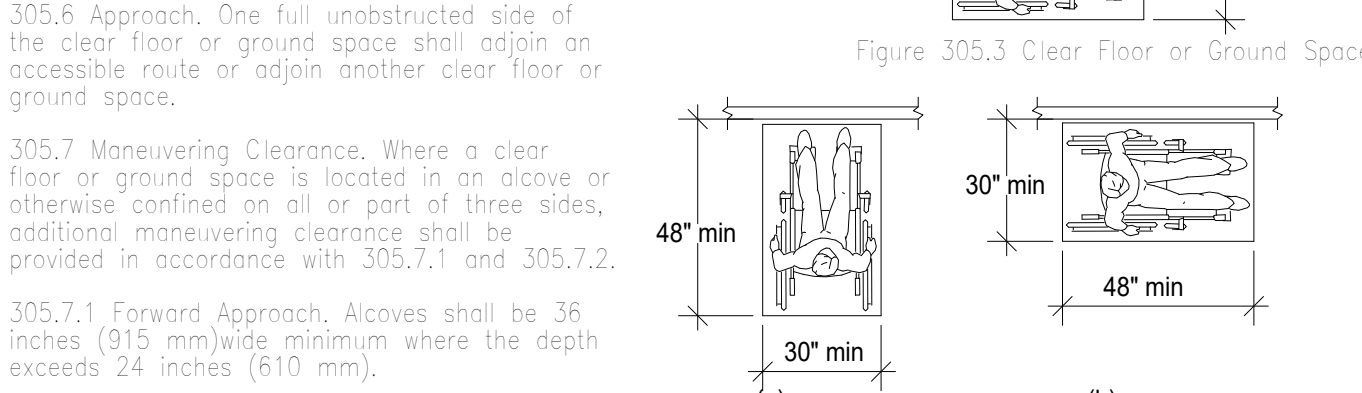
305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.



305.3 Size. The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.



305.7 Forward Approach. Alcoves shall be 36 inches (915 mm) wide minimum where the depth exceeds 24 inches (610 mm).

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

305.7.3 Position of Clear Floor or Ground Space

305.7.4 Forward Approach

305.7.5 Parallel Approach

306 Knee and Toe Clearance

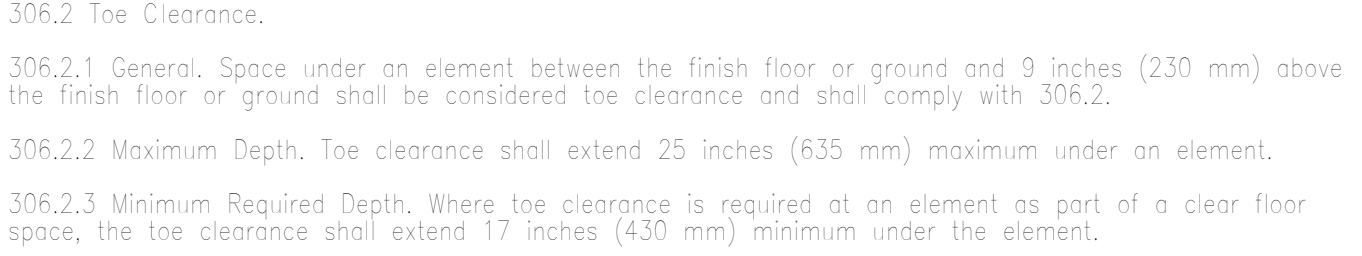
306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, toe clearance shall extend 17 inches (430 mm) minimum under the element.



306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

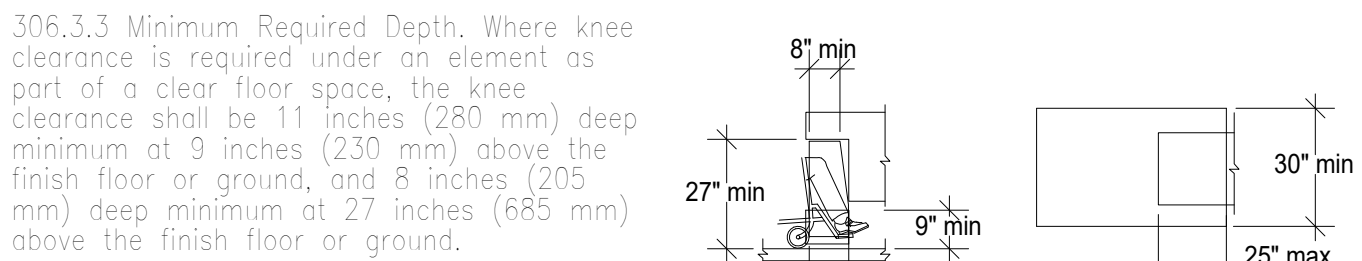
306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.



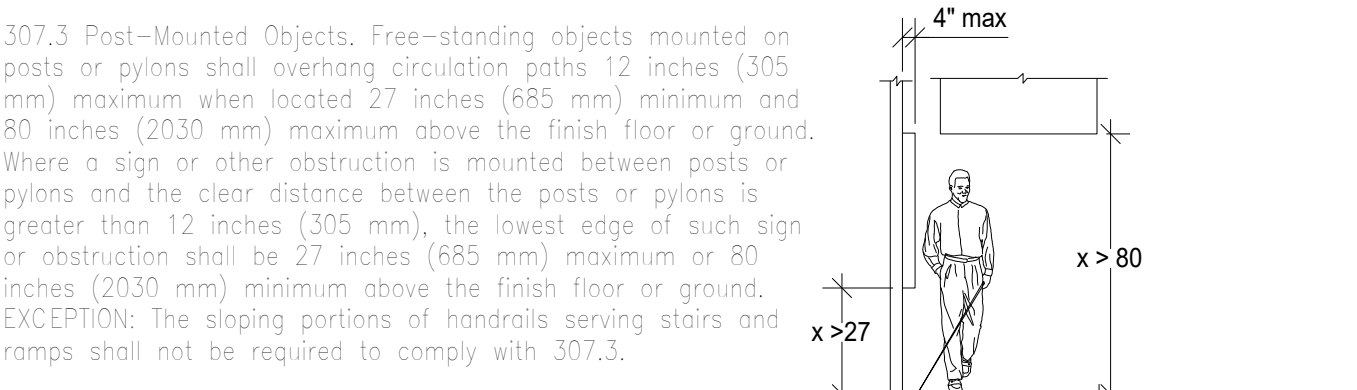
306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

307 Protruding Objects.

307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path. EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.



307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground. EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

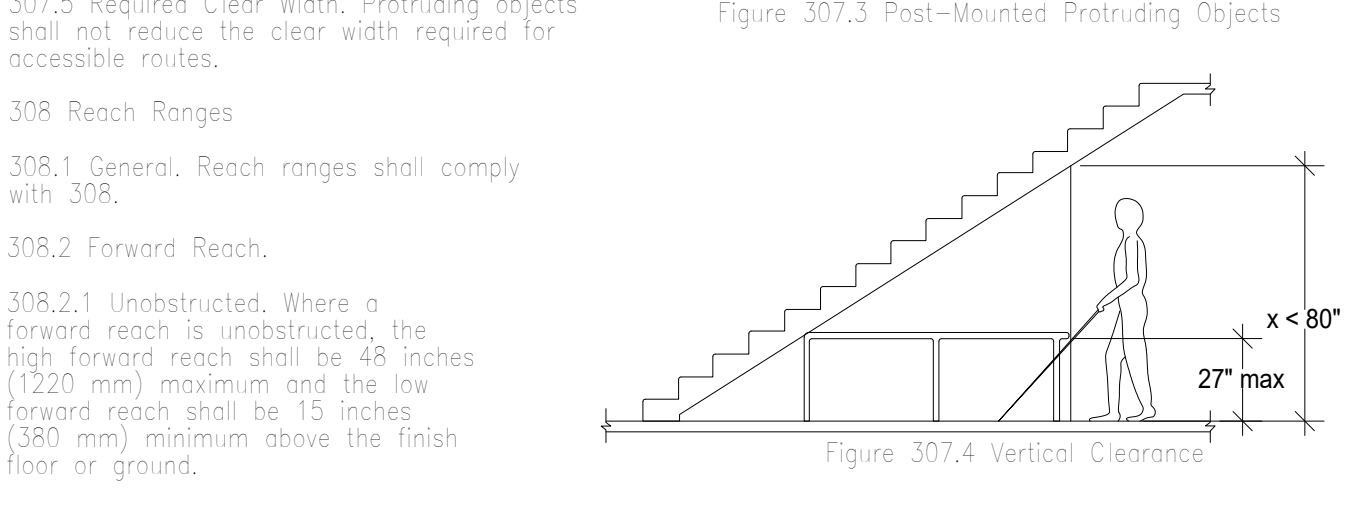
307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 Reach Ranges

308.1 General. Reach ranges shall comply with 308.

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

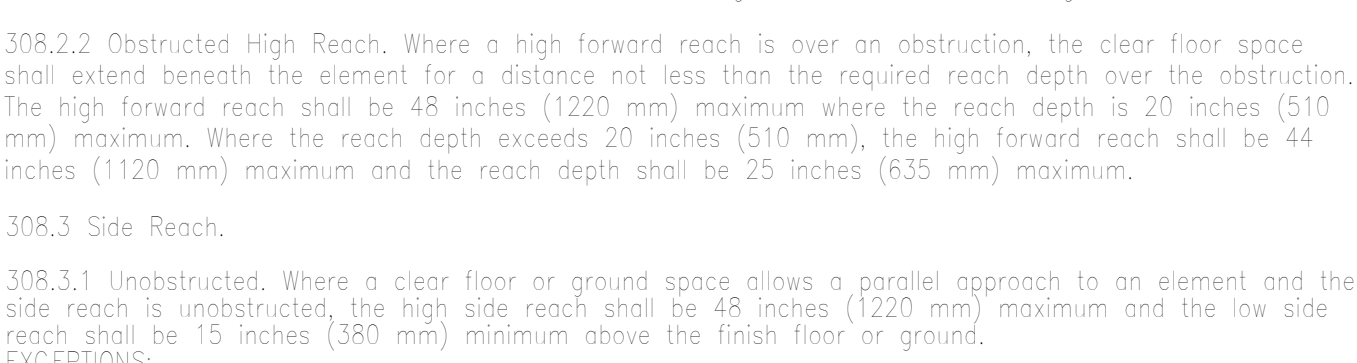


308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground. EXCEPTIONS:

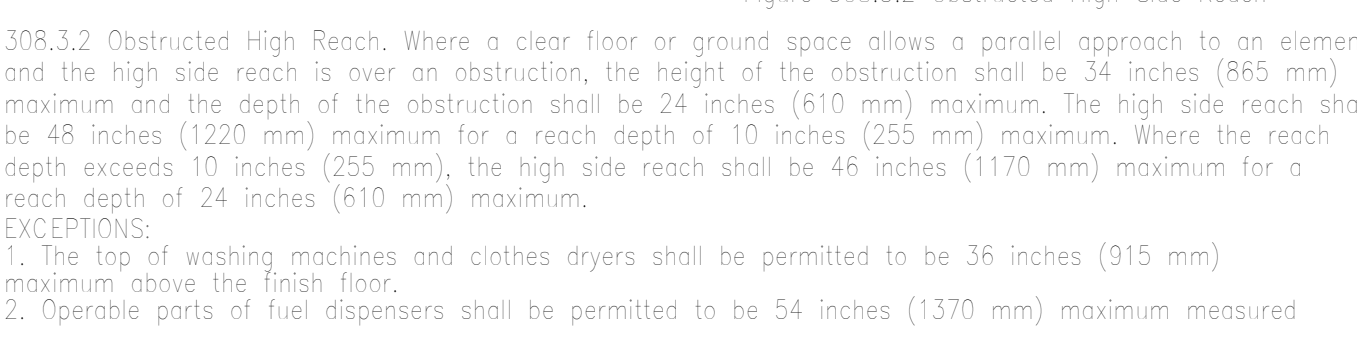
1. An obstruction shall be permitted between the clear floor or ground space and the element where the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.



308.3.3 Obstructed High Side Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

308.3.4 Operation. Operable parts shall be permitted to be 36 inches (915 mm) maximum above the finish floor.

308.3.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.



309 Operable Parts

309.1 General. Operable parts shall comply with 309.

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum. EXCEPTION: Gas pump nozzles shall not be required to provide operable parts that have an activating force of 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

401 General

401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes

402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

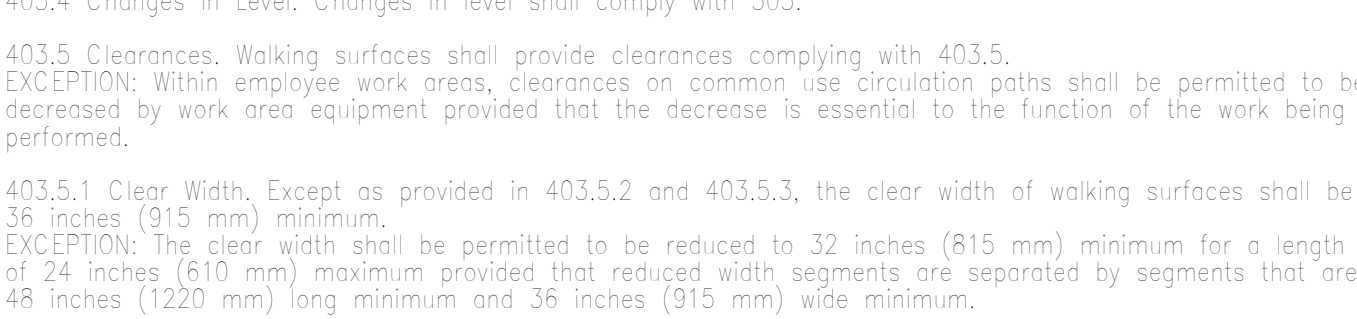
403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

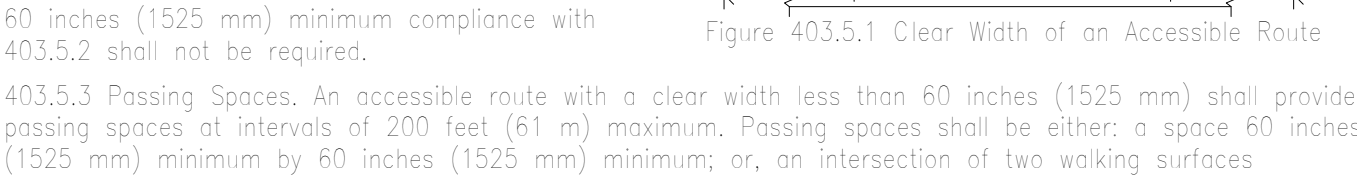
403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5. EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum. EXCEPTION: Clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.



403.5.3 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn. EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

403.5.4 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.



403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20, they shall comply with 505.

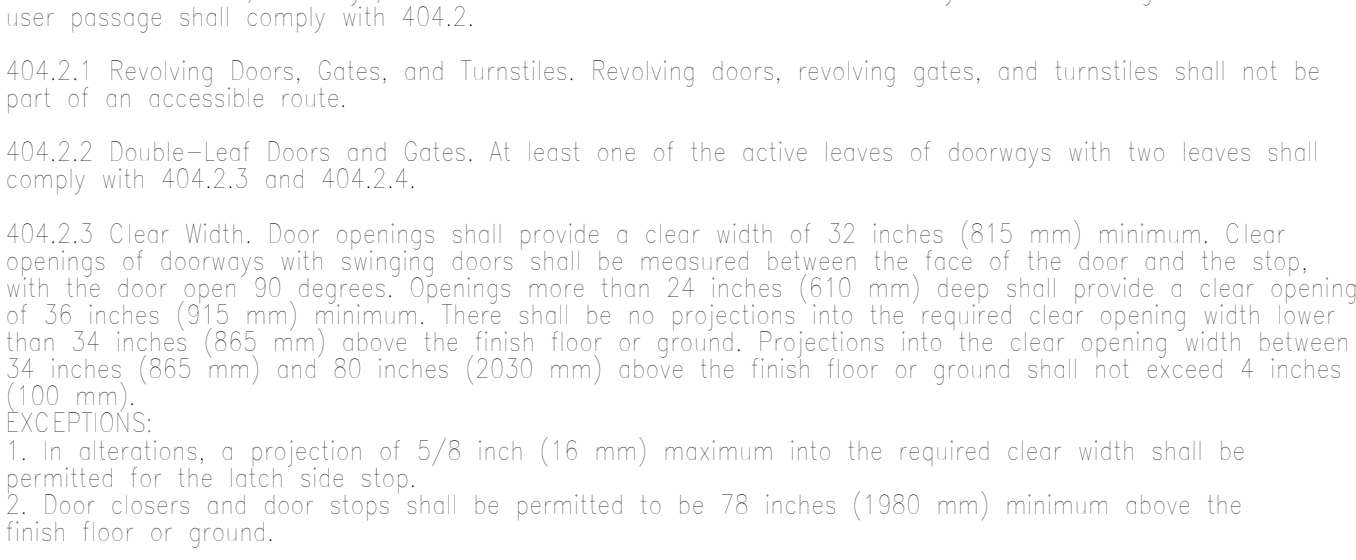
404 Doors, Doorways, and Gates

404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with 404. EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.1, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

404.2 Manual Doors, Doorways, and Manual Gates. Manual doors and doorways and manual gates intended for user passage shall comply with 404.2.

404.2.1 Revolving Doors, Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

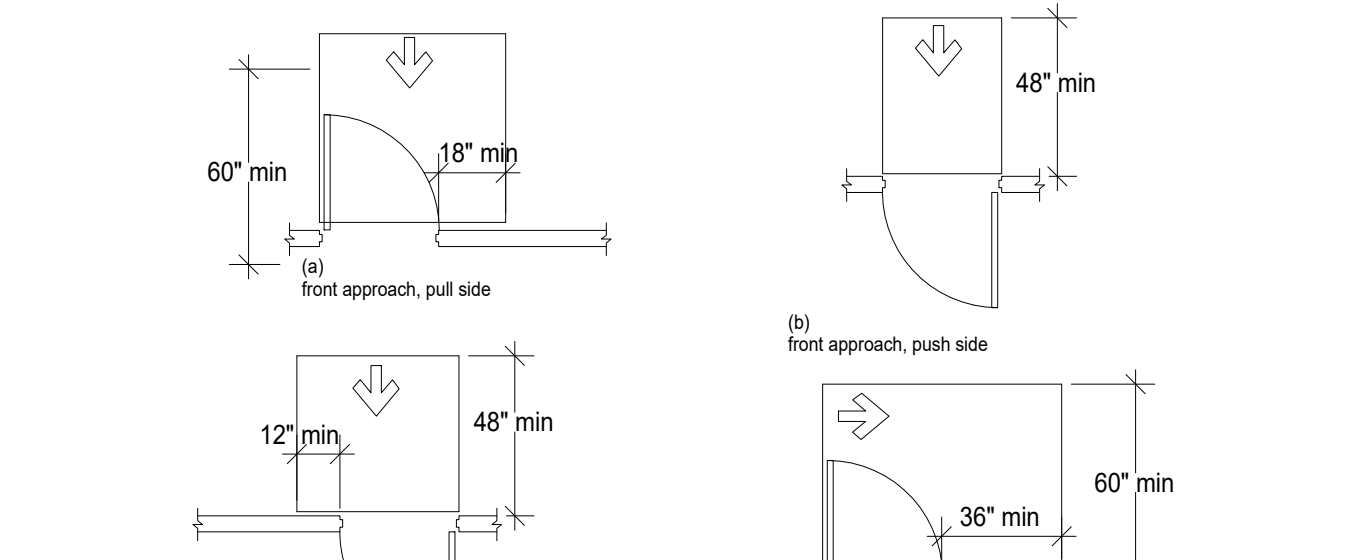
404.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4.



404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening with lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening with between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance. EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch.

404.2.5 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)



404.2.5.1 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

404.2.5.2 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

404.2.5.3 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

404.2.5.4 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

404.2.5.5 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

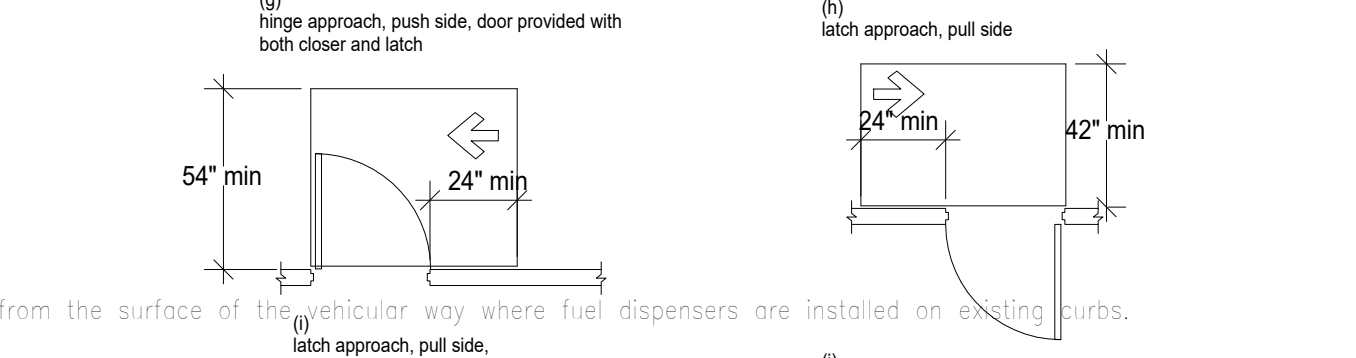
404.2.5.6 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

404.2.5.7 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

404.2.5.8 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

404.2.5.9 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

404.2.5.10 Sliding Doors and Gates. Sliding doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)



404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts of doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

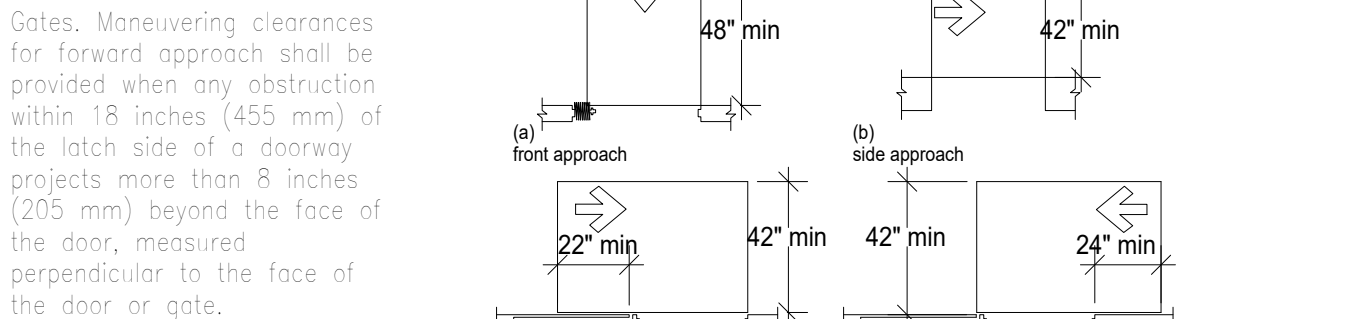
404.2.8 Closing Speed. Door and gate closing speed shall comply with 404.2.8.

404.2.9 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the closed position is 1.5 seconds maximum.

404.2.10 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

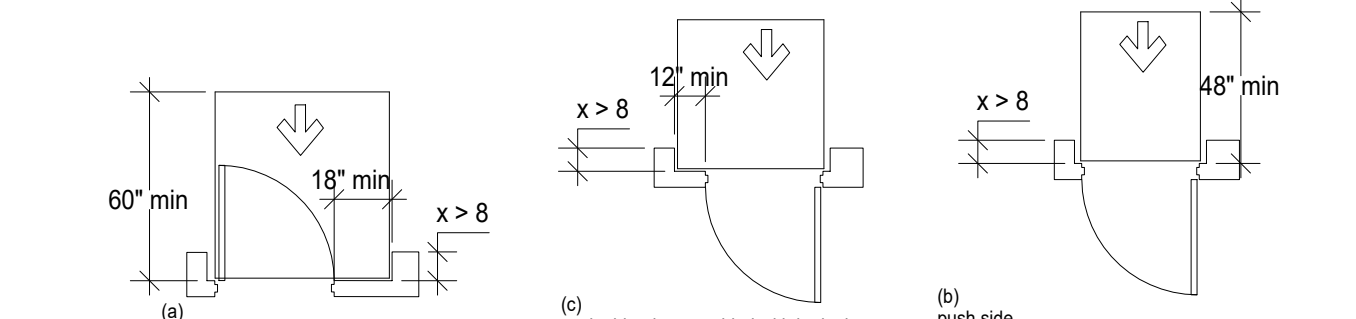
1. For swing doors, the force shall be 5 pounds (22.2 N) maximum.
2. Sliding or folding doors, 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.



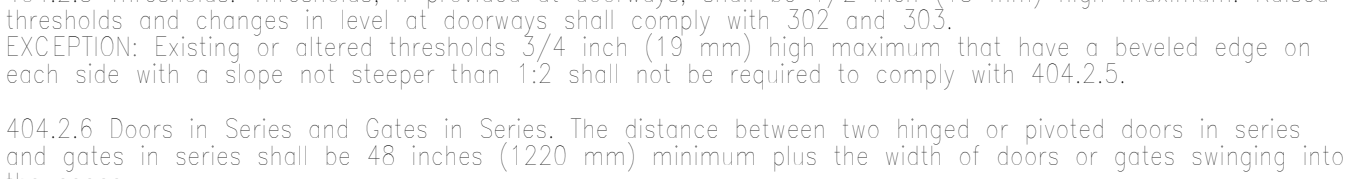
404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.11.



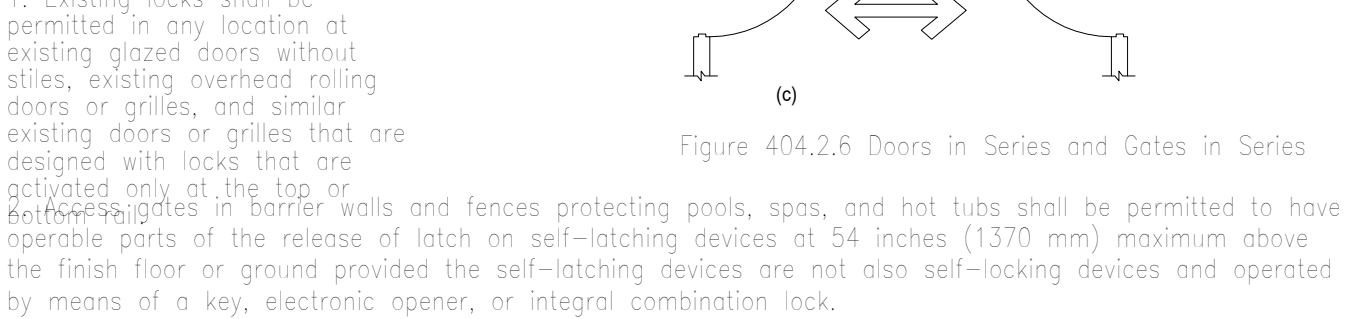
404.2.12 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.12.



404.2.13 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.13.



404.2.14 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.14.

404.2.15 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.15.

404.2.16 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.16.

404.2.17 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.17.

404.2.18 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.18.

404.2.19 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.19.

404.2.20 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.20.

404.2.21 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.21.

404.2.22 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.22.

404.2.23 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.23.

404.2.24 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.24.

404.2.25 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.25.

404.2.26 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.26.

404.2.27 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.27.

404.2.28 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.28.

404.2.29 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.29.

404.2.30 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.30.

404.2.31 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.31.

404.2.32 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.32.

404.2.33 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.33.

404.2.34 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.34.

404.2.35 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.35.

404.2.36 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.36.

404.2.37 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.37.

404.2.38 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.38.

404.2.39 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

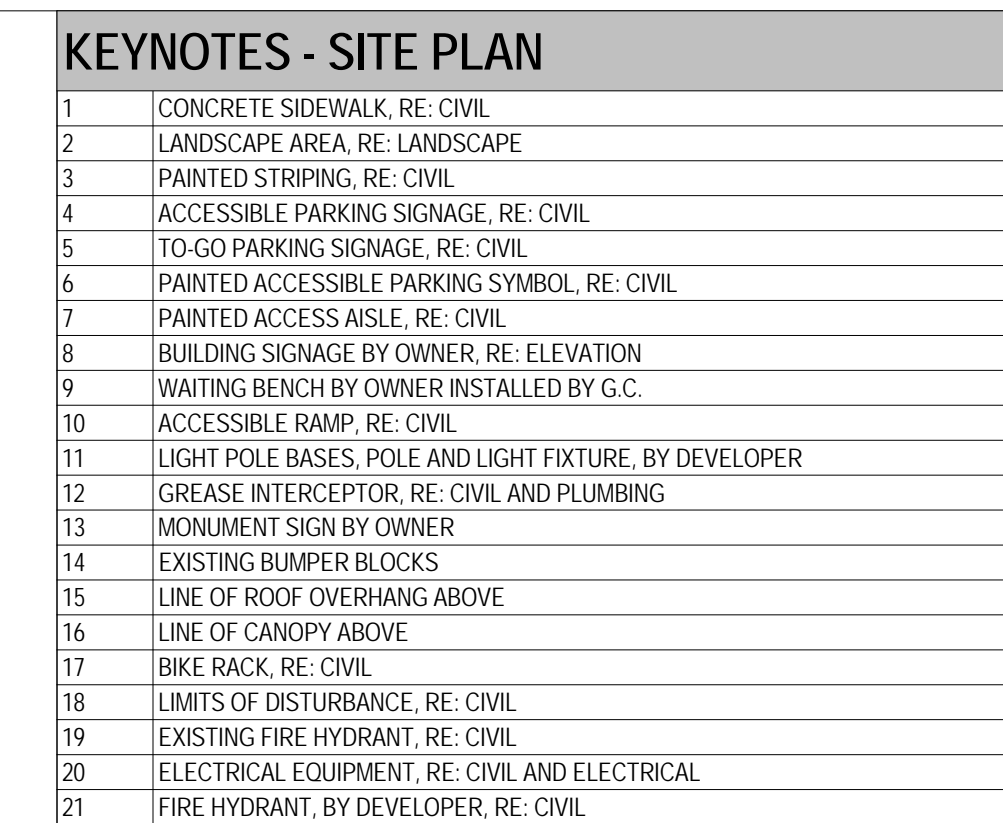
EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.39.

404.2.40 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.40.

404.2.41 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404



LOT: 108.188 SQ.FT.

ZONING DISTRICT: PD (BLOOMINGDALE CROSSING 86-007)

BUILDING SIZE: 5827 SQ.FT.

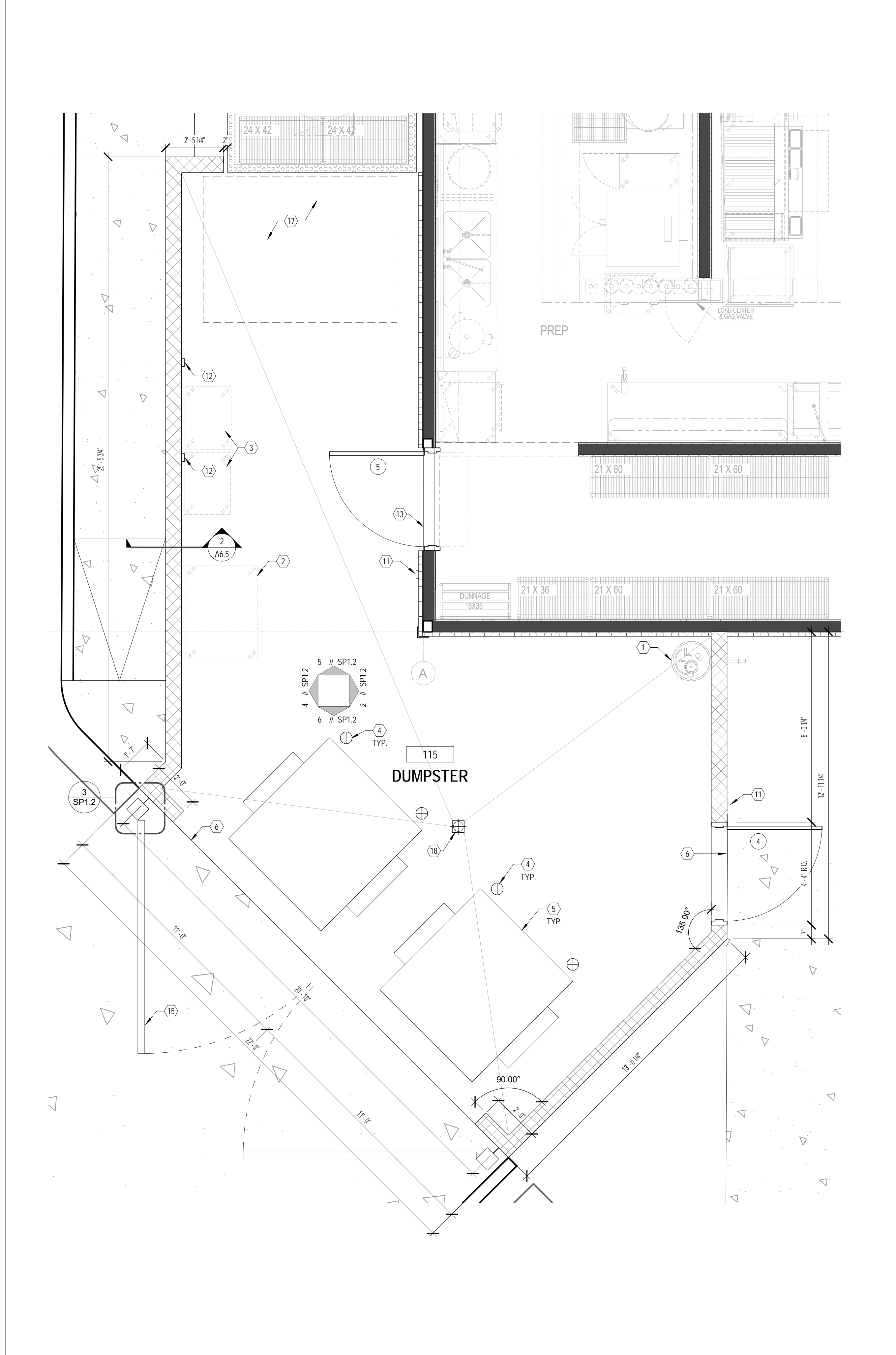
NEW BUILDING HEIGHT: 23'-0"

NEW TOTAL SEATING: 220 SEATS

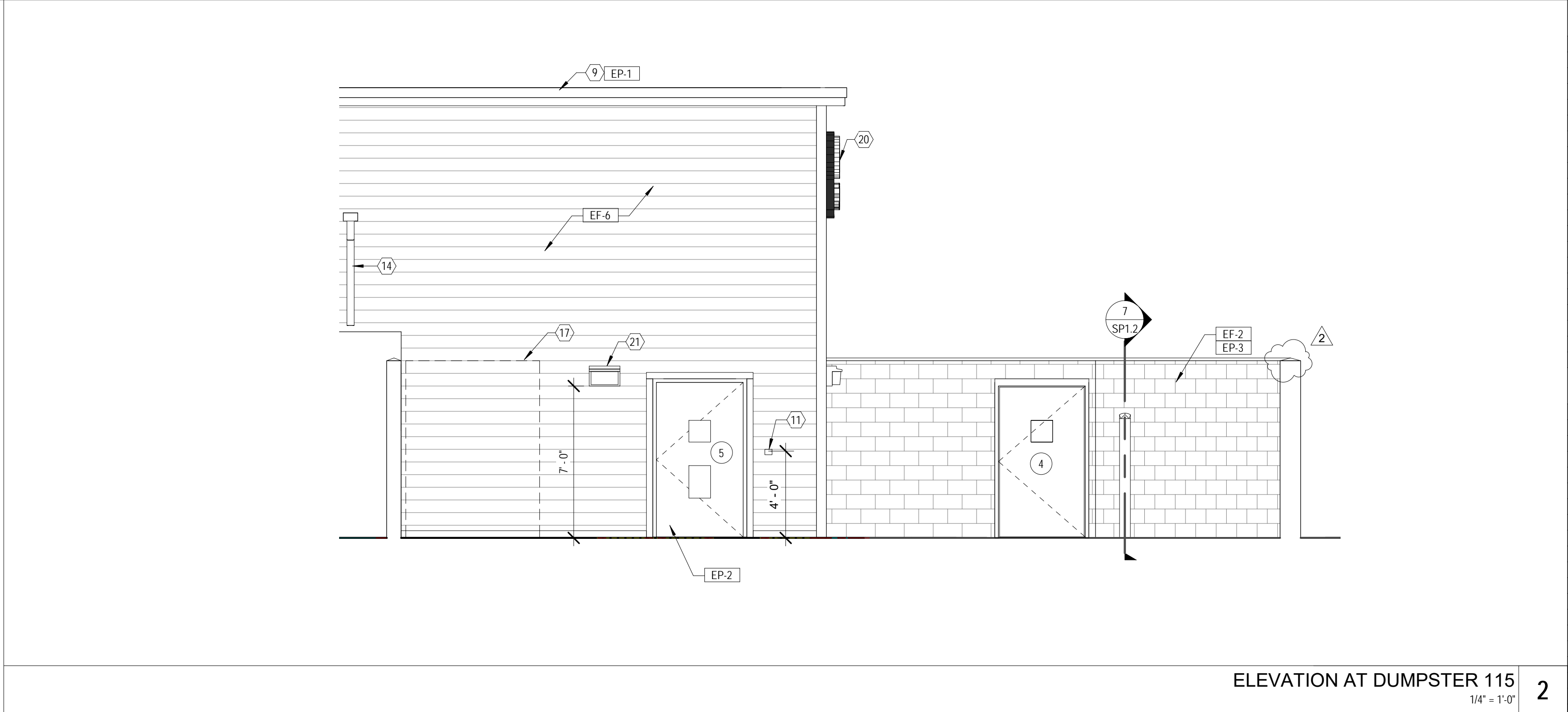
USAGE: RESTAURANT WITH ALCOHOL SERVICE

PARKING SPACES PROVIDED:

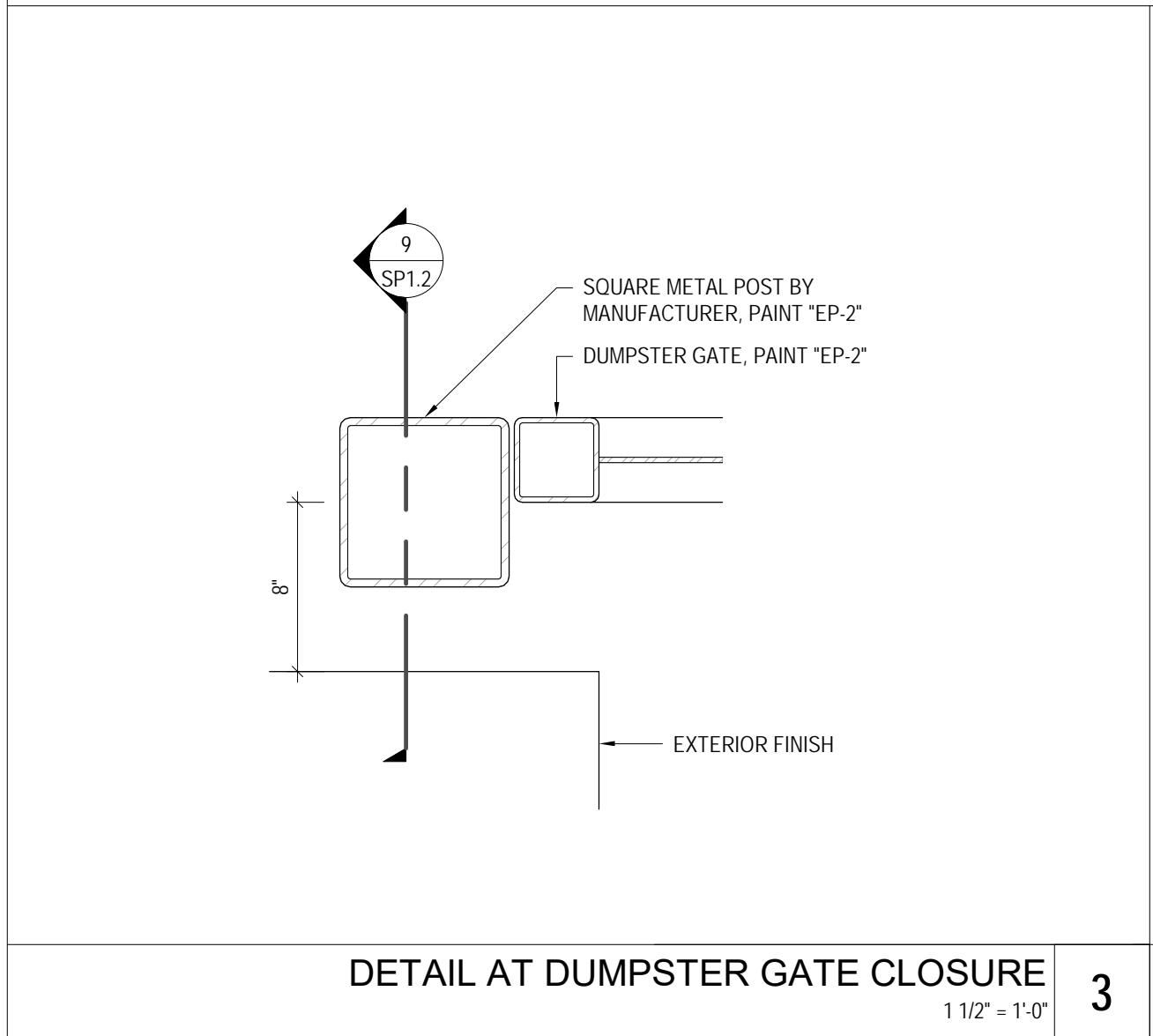
STANDARD PARKING SPACES:	117 SPACES
ACCESSIBLE (1 VAN SPACE):	5 SPACES
TOTAL:	122 SPACES (5 ACCESSIBLE)
TOTAL PARKING PROVIDED FOR OUTPATIENT (BY DEVELOPER)	141 SPACES (INCLUDES 5 ADA SPACES)



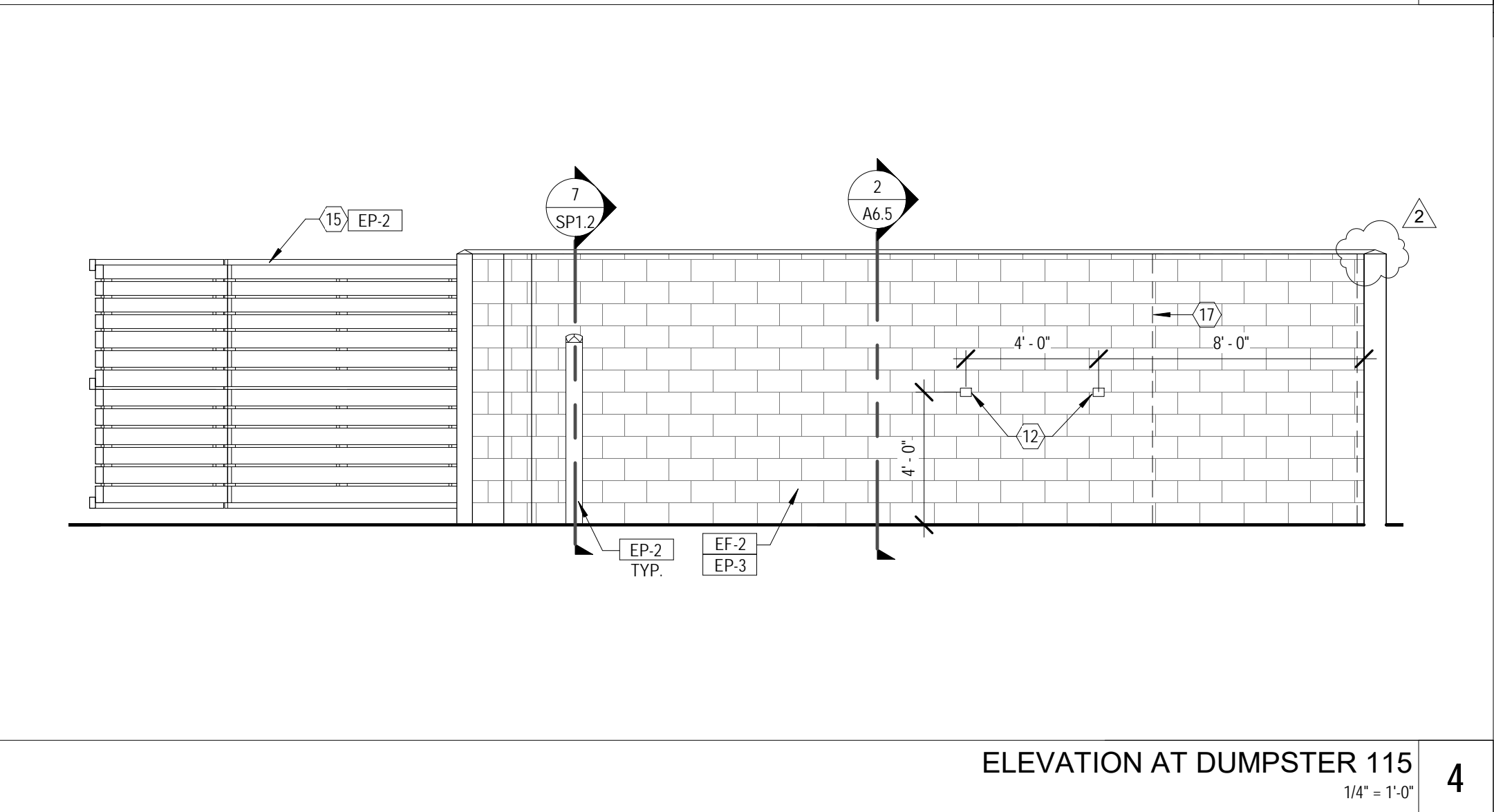
ENLARGED DUMPSTER FLOOR PLAN
3/8" = 1'-0"



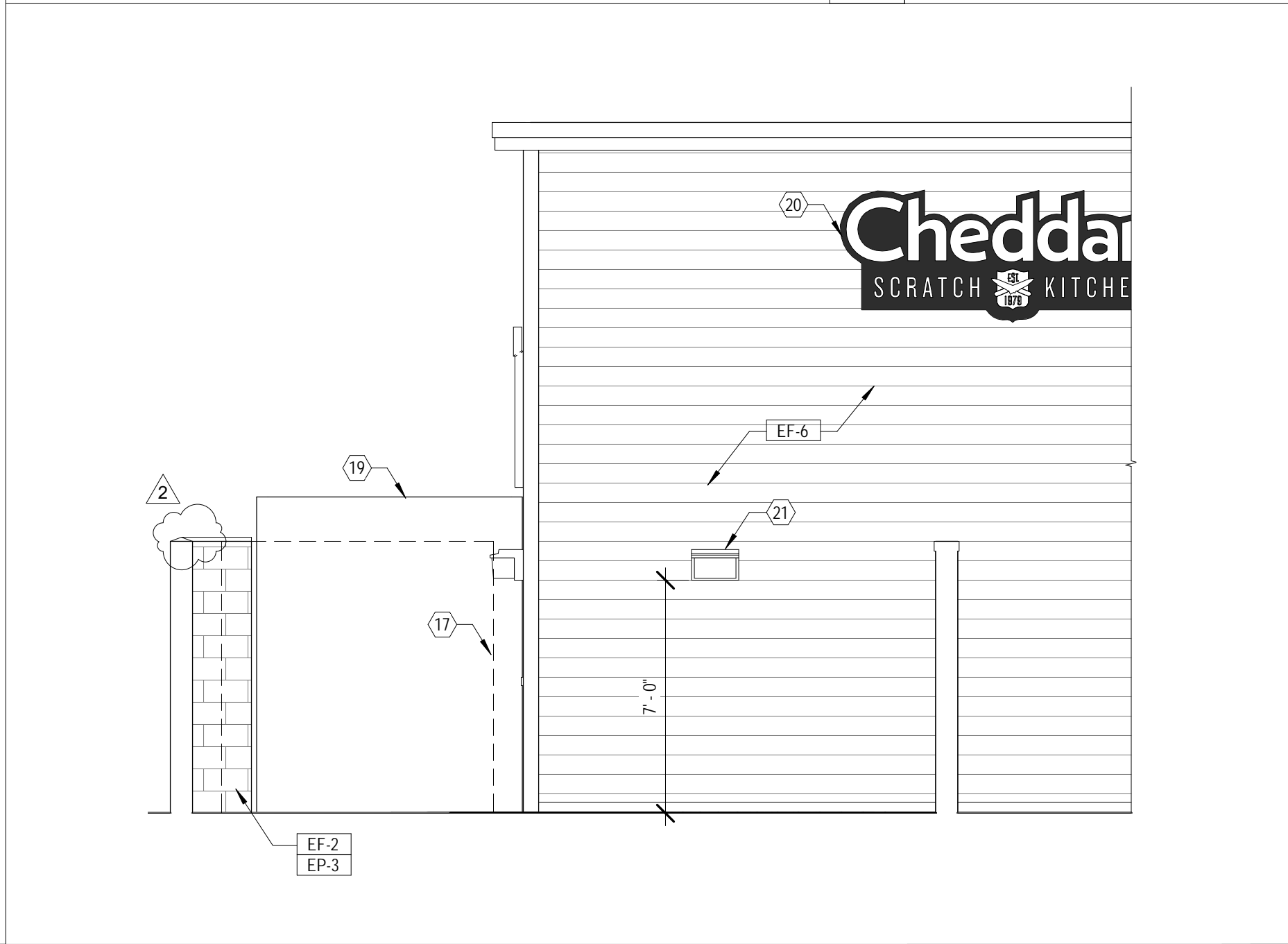
ELEVATION AT DUMPSTER 115
1/4" = 1'-0"



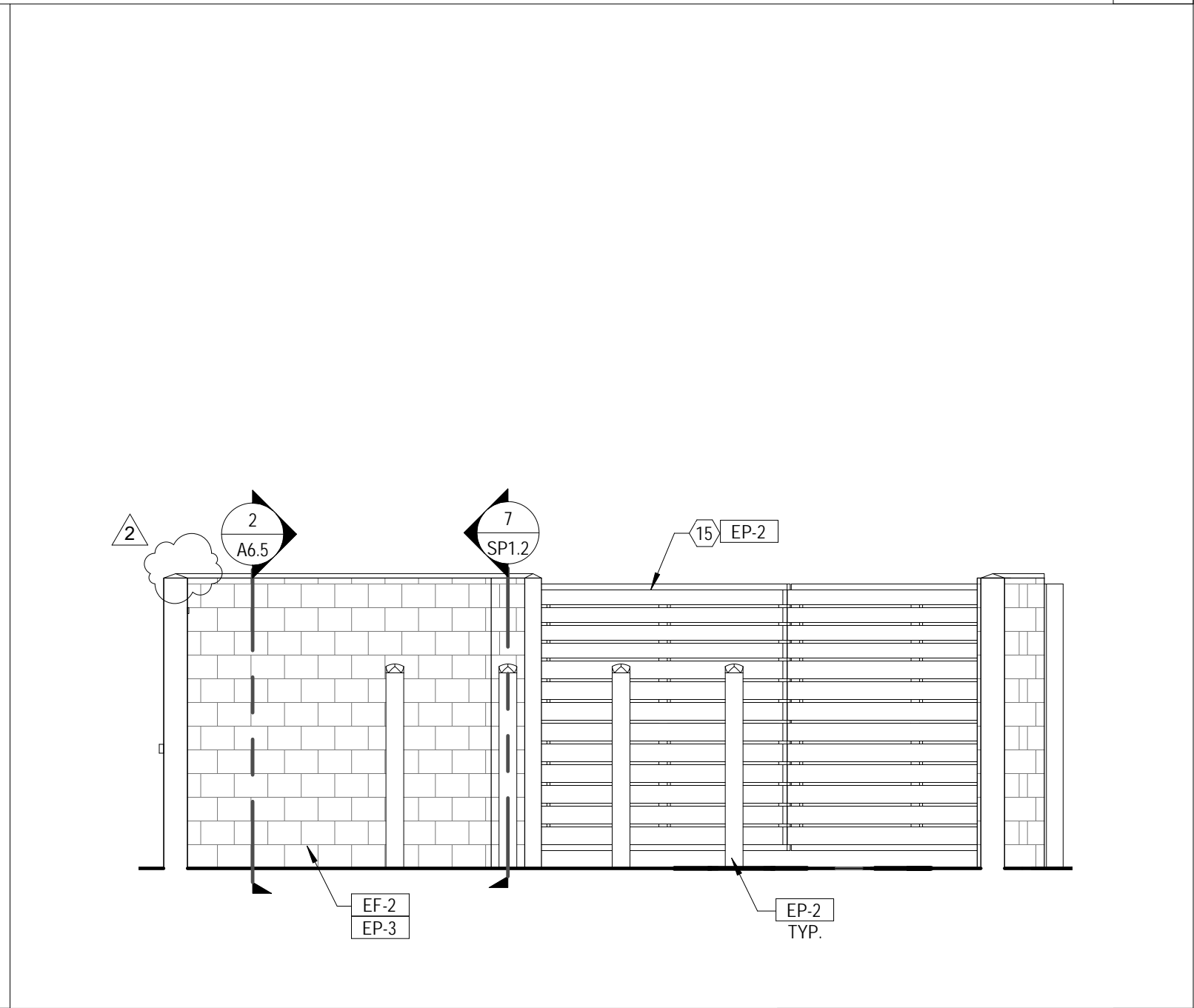
DETAIL AT DUMPSTER GATE CLOSURE
1 1/2" = 1'-0"



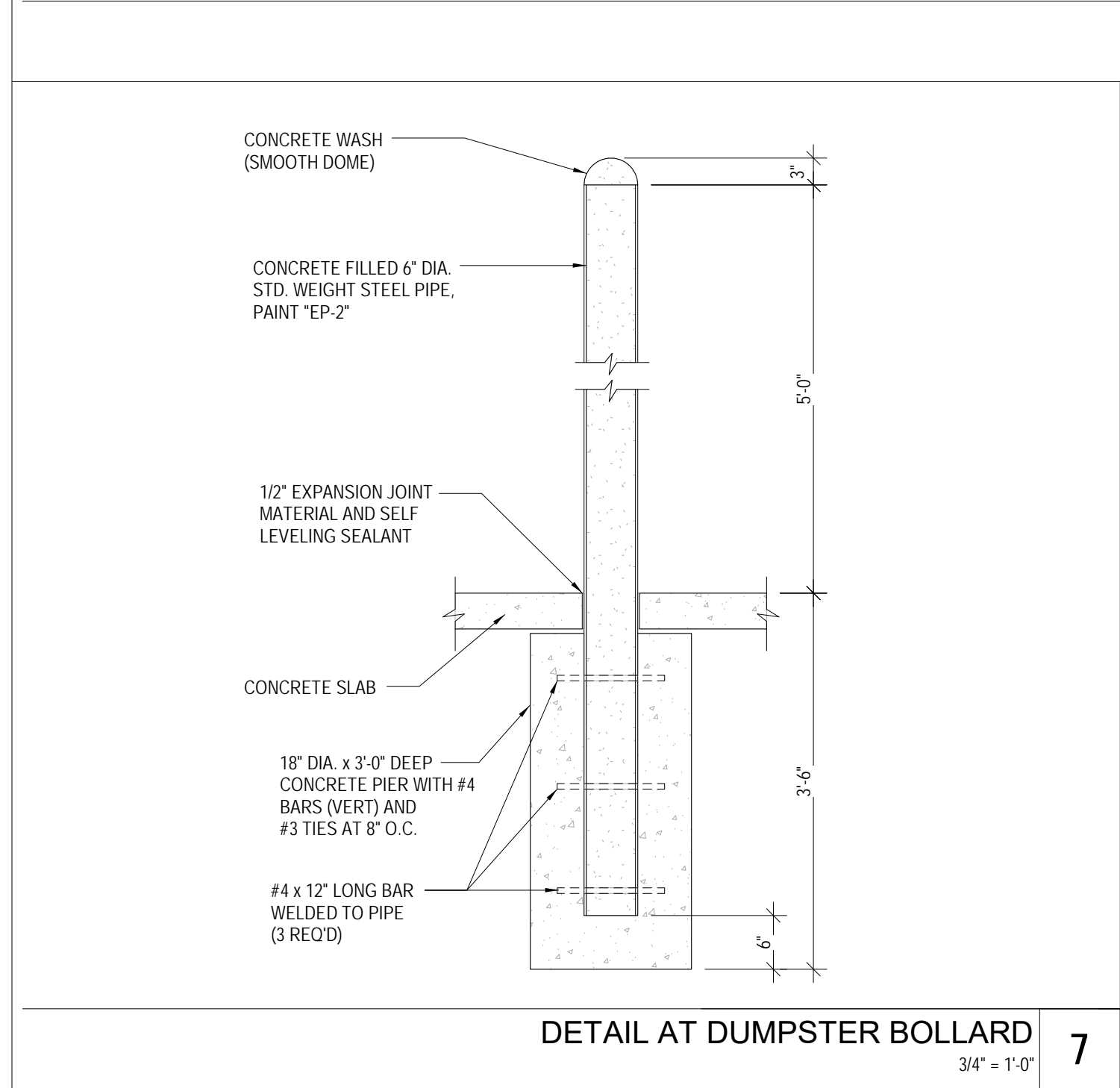
ELEVATION AT DUMPSTER 115
1/4" = 1'-0"



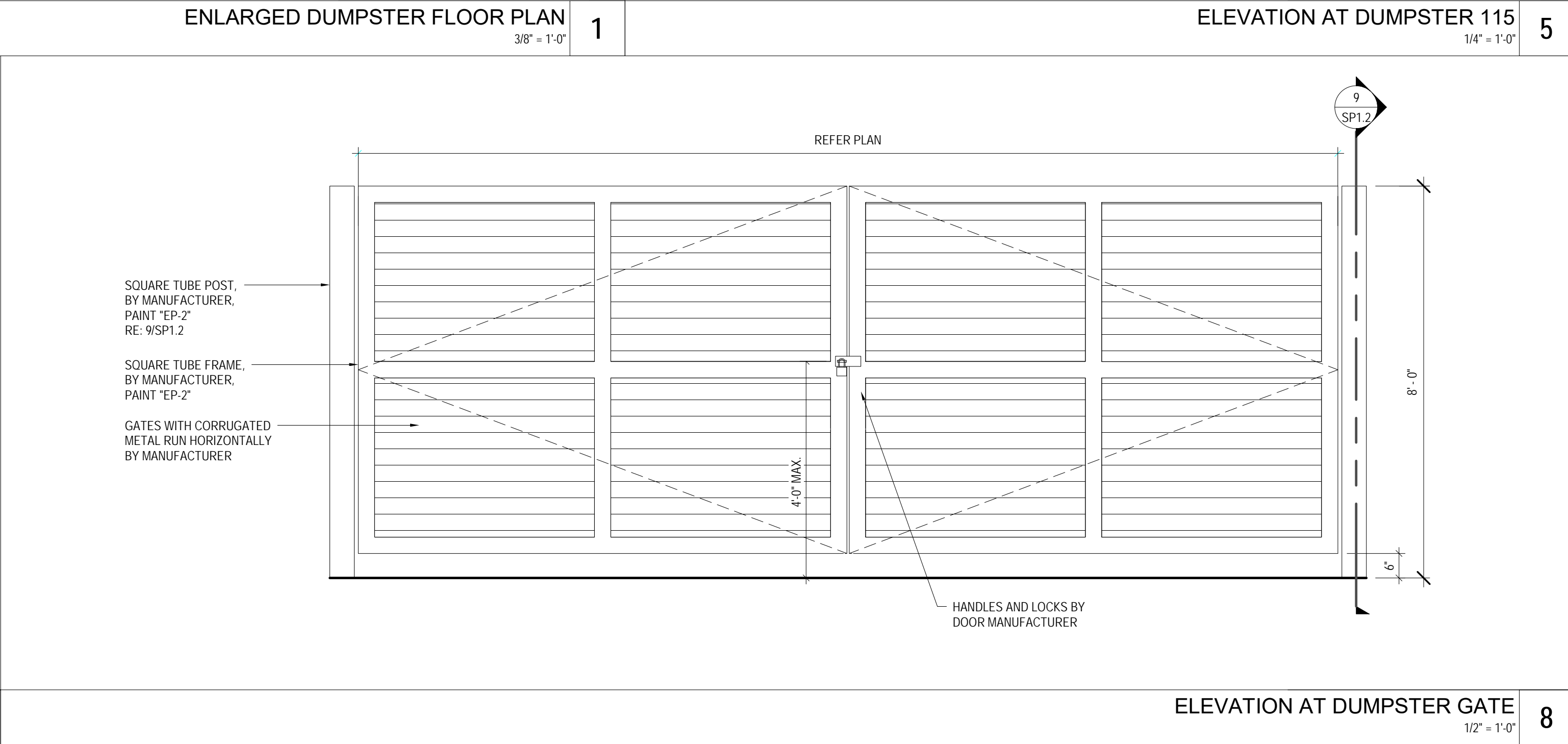
ELEVATION AT DUMPSTER 115
1/4" = 1'-0"



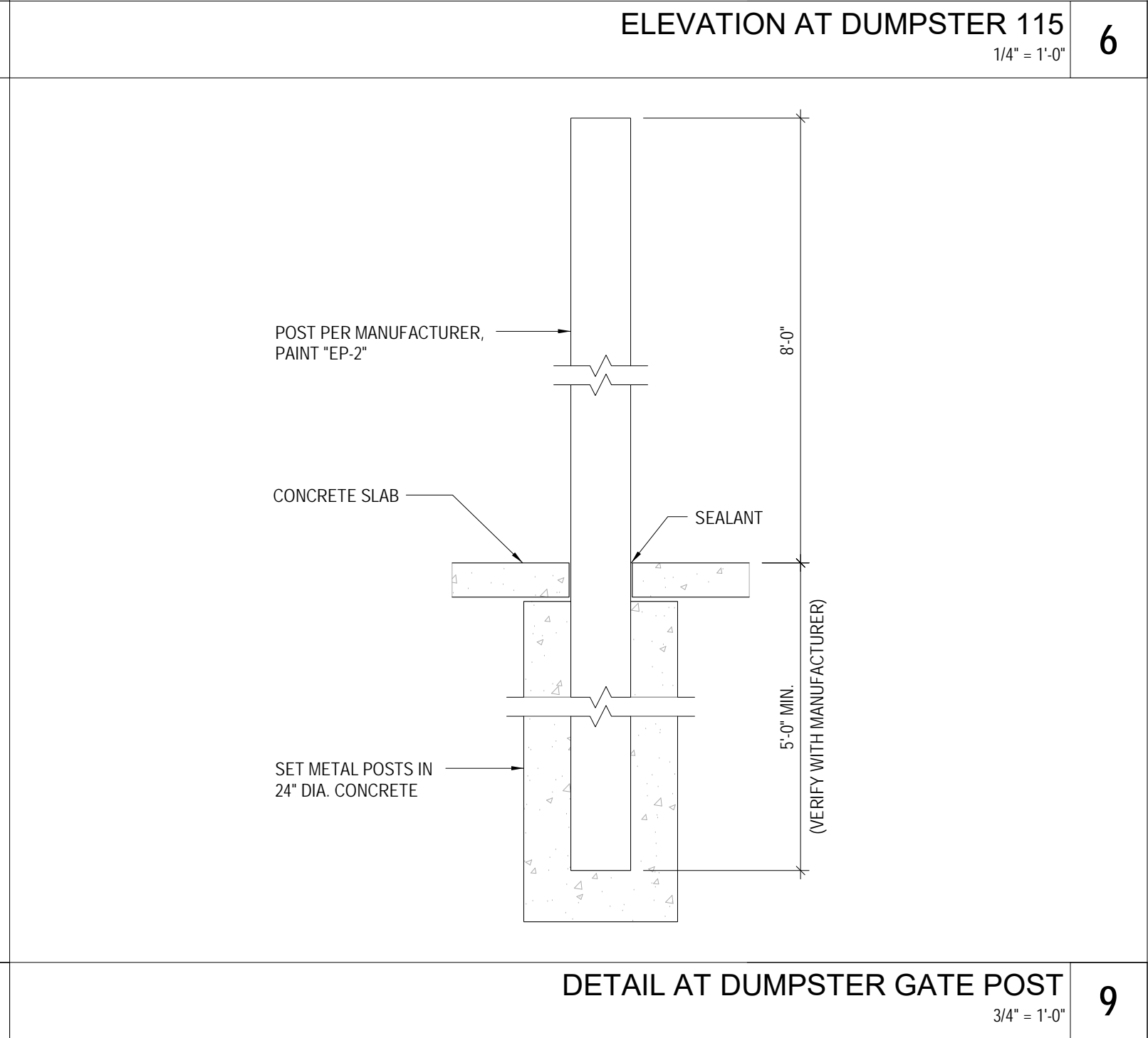
ELEVATION AT DUMPSTER 115
1/4" = 1'-0"



DETAIL AT DUMPSTER BOLLARD
3/4" = 1'-0"




ELEVATION AT DUMPSTER GATE
1/2" = 1'-0"



DETAIL AT DUMPSTER GATE POST
3/4" = 1'-0"

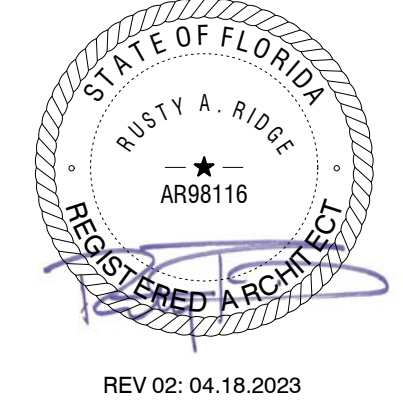
KEYNOTES - DUMPSTER	
1	CO2 TANK BY OTHERS
2	GREASE HOLDING BIN (100 GALLON, BY OTHERS)
3	FRYER OIL DISPOSAL CART BY OTHERS
4	BOLLARD, PAINT, RE: 7SP1.2
5	DUMPSTER, BY OTHERS
6	EDGE OF SLAB
7	ROOF OVERHANG AND GUTTER ABOVE
8	PRE-FINISHED METAL SNAP-CAP FLASHING TO MATCH EP-2
9	ROUGH SAWN STAINED CEDAR FASCIA
10	1X4 STAINED CEDAR TRIM
11	DOOR BUZZER, RE: ELECTRICAL
12	LADDER HANGER MOUNTED 4'-0" A.F.F.
13	ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC
14	PRE-FINISHED ALUMINUM SEAMLESS GUTTER AND DOWNSPOUT TO MATCH EP-2
15	DUMPSTER GATE, RE: 8SP1.2
16	G.C. TO COORDINATE LOCATION OF CO2 ACCESS WITH VENDOR
17	STORAGE SHED BY OWNER, RE: SHOP DRAWINGS
18	DUMPSTER DRAIN, RE: PLUMBING
19	EXPOSED COOLER / FREEZER, RE: FOOD SERVICE
20	SIGNAGE, RE: EXTERIOR ELEVATIONS
21	LIGHT FIXTURE, RE: ELECTRICAL
FINISH SCHEDULE - EXTERIOR	
EXTERIOR PAINT	
EP-1	ANTIQUE WHITE
EP-2	MISSISSIPPI BRONZE ENAMEL
EP-3	IBIS WHITE
EP-4	CHARWOOD
STONE	
ST-1	STONE
EXTERIOR FINISH	
EF-1	MODULAR BRICK
EF-2	SPLIT-FACE CMU BLOCK - 8" THICK
EF-3	CMU BLOCK - 4" THICK
EF-4	HARDIE PLANK HORIZONTAL LAP SIDING - NAVAJO BEIGE
EF-5	PLYWOOD-ROUGH SAWN CEDAR
EF-6	HARDIE PLANK HORIZONTAL LAP SIDING - KHAKI BROWN
EF-7	BRICK SILL
EF-8	4" HARDIE TRIM
EF-9	6" HARDIE TRIM - ARCTIC WHITE
ROOFING	
R-1	SINGLE PLY ROOF
R-2	ARCHITECTURAL COMPOSITION SHINGLES
R-3	STANDING SEAM COPPER



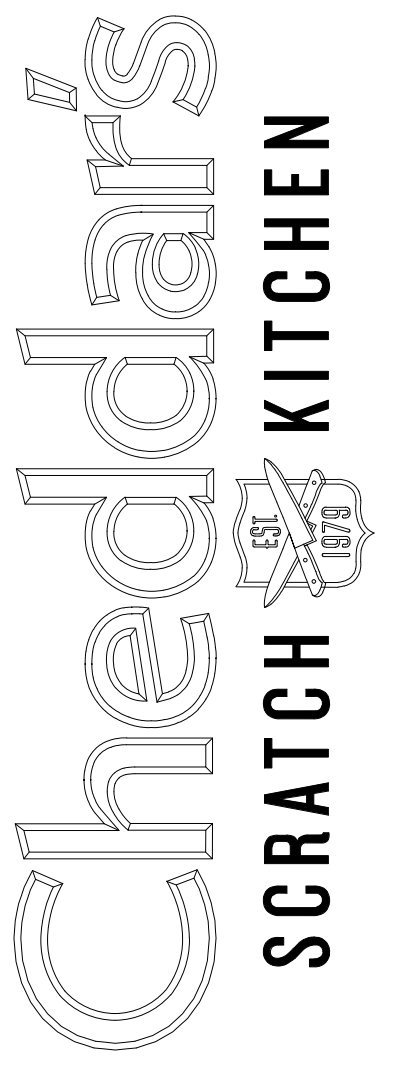
6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75039
TEL: 972.870.1288
WWW.IDSTUDIO4.COM

PROJECT NUMBER
DCH22007

CLIENT:
DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



REV 02: 04.18.2023



Issue Date: 02.15.2023

REVISION INFORMATION

1	04.04.2023
CITY COMMENTS	
2	04.05.2023
COORDINATION COMMENTS	

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

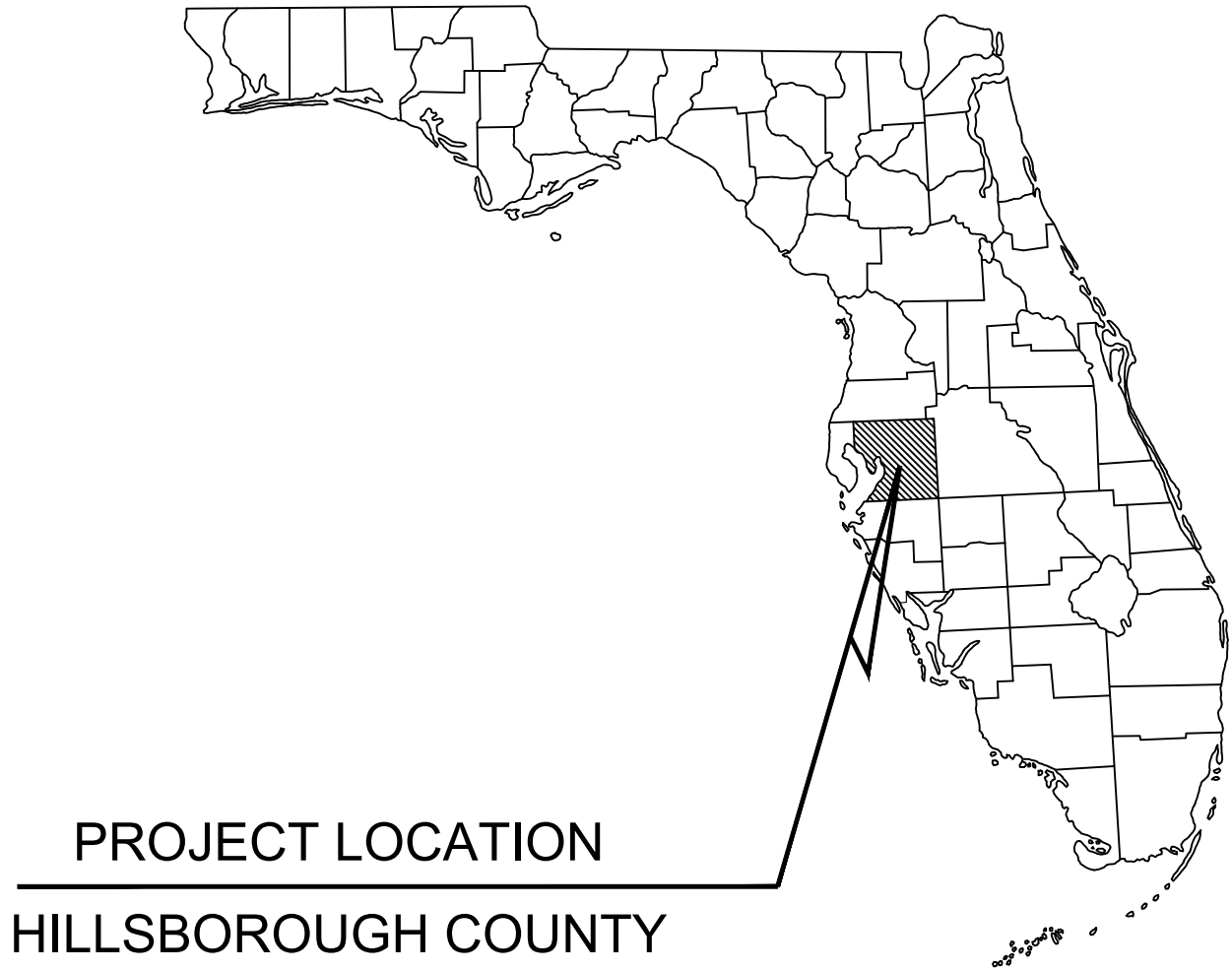
RIVERVIEW, FL

Drawing:
ENLARGED
DUMPSTER

SP1.2

Drawing name: K:\VRB_LDEV\047916 - Darden\134_CSK RiverView\CADD\PlanSheets\101-C1.1 COVER SHEET.dwg 101-C1.1 COVER SHEET May 08, 2023 12:58pm by: LizMeeks

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PROJECT LOCATION
HILLSBOROUGH COUNTY

PROJECT TEAM

APPLICANT

JIM POWELL
DARDEN RESTAURANTS
1000 DARDEN CENTER DRIVE
ORLANDO, FL 32837
(407) 491-0756
AMCINTOSH@DARDEN.COM

ARCHITECT

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ID STUDIO 4
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IRVING, TX 75063
(972)870-1288
RRIDGE@IDSTUDIO4.COM

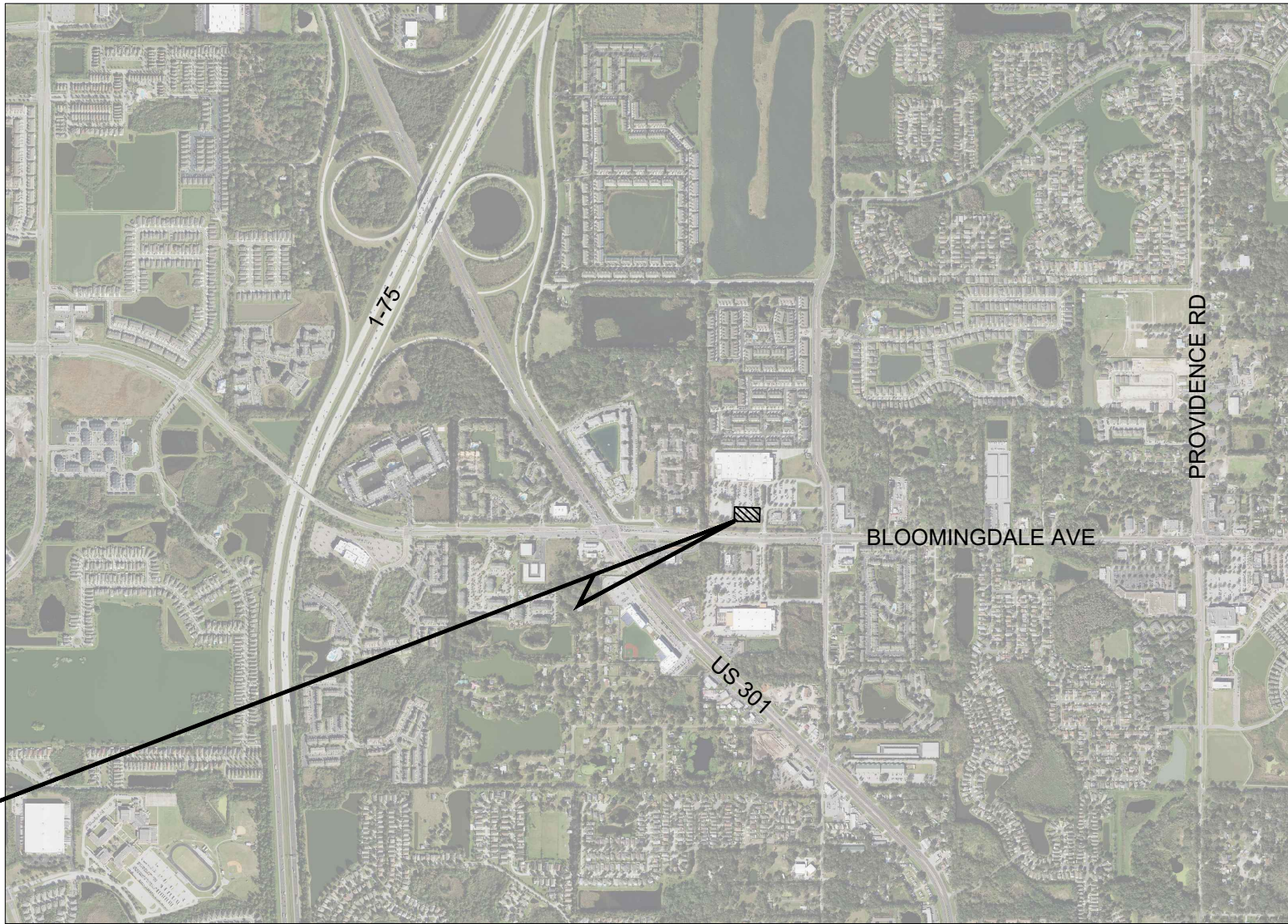
CIVIL ENGINEER

KEVIN M. ROBERSON, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
KEVIN.ROBERSON@KIMLEY-HORN.COM

LANDSCAPE ARCHITECT

LEAH M. CAMPBELL, RLA
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772)794-4100
LEAH.CAMPBELL@KIMLEY-HORN.COM

PROJECT LOCATION



VICINITY MAP
N.T.S.



CONSTRUCTION PLANS

FOR

CHEDDAR'S SCRATCH KITCHEN

LOCATED AT

10150 BLOOMINGDALE AVE RIVERVIEW, FL 33578

Sheet List Table

- C1.1 COVER SHEET
- C1.3 GENERAL NOTES
- C2.1 DEMOLITION AND EROSION CONTROL PLAN
- C2.2 EROSION CONTROL DETAILS
- C3.1 SITE PLAN
- C4.1 UTILITY PLAN
- C5.1 UTILITY DETAILS
- C6.1 PAVING, GRADING AND DRAINAGE PLAN
- C7.1 PAVING, GRADING AND DRAINAGE DETAILS
- CS1 DARDEN CIVIL SPECIFICATIONS
- CS2 DARDEN CIVIL SPECIFICATIONS
- CS3 DARDEN CIVIL SPECIFICATIONS
- CS4 DARDEN CIVIL SPECIFICATIONS
- CS5 DARDEN CIVIL SPECIFICATIONS
- L1.1 LANDSCAPE PLAN
- L1.2 LANDSCAPE DETAILS
- L2.1 IRRIGATION PLAN
- L2.2 IRRIGATION DETAILS
- LS1 DARDEN LANDSCAPE AND IRRGATION SPECIFICATIONS

LIST OF CONTACTS

STORMWATER

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
7601 US HWY 301
TAMPA, FL 33637
(813)985-7481 X 6567
CONTACT: DANIEL GOLUS, P.E.

HILLSBOUROUGH COUNTY PUBLIC WORKS
601 E KENNEDY BLVD
TAMPA, FL 33602
(813) 276-8378
CONTACT: ADEL ELORFI

WATER/SANITARY SEWER

HILLSBOROUGH COUNTY UTILITIES
925 E TWIGGS STREET
TAMPA, FL 33602
(813) 272-5977 EXT. 43139
CONTACT: JOANNE BOERNER

PLANNING AND ZONING

HILLSBOROUGH COUNTY PLANNING AND ZONING
601 E. KENNEDY BLVD., 19TH FLOOR
TAMPA, FL 33602
(813) 272-5828
CONTACT: COLLEEN MARSHALL

BUILDING DIVISION

HILLSBOROUGH COUNTY DEPARTMENT SERVICES
319 PIERCE STREET, 1ST FLOOR
TAMPA, FL 33602
(813) 272-5600
CONTACT: ADAM GORMLEY

FIRE PREVENTION

HILLSBOROUGH COUNTY FIRE MARSHALL
9450 S COLUMBUS DRIVE
TAMPA, FL 33619
(813) 318-2090
CONTACT: KEVIN McGUIRE

ELECTRIC PROVIDER

TECO ENERGY
820 S 78TH STREET
TAMPA, FL 33619
(813) 635-1500
CONTACT: CONSTRUCTION SERVICES

TELEPHONE PROVIDER

SPECTRUM BUSINESS
(877) 390-2362

CABLE PROVIDER

DIRECT TV
(877) 451-6172

NATURAL GAS PROVIDER

TECO PEOPLES GAS
702 N FRANKLIN ST
TAMPA, FL 33602
(813) 927-7719
CONTACT: FRANK HERNANDEZ

PREPARED BY:

Kimley»Horn

ISSUANCE DATE: 02/15/23
LATEST REVISION DATE: 04/05/23

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

ARCHITECTS PROJECT #:
DCH22007

Kimley»Horn

445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
PH: (772) 794-4100
REGISTRY NO. 696
KHA PROJECT # 047916134



Cheddar's
SCRATCH KITCHEN

Issue Date: 02/15/23

REVISION INFORMATION

2 4/5/23
COORDINATION COMMENTS

Restaurant #: 21K0037

CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

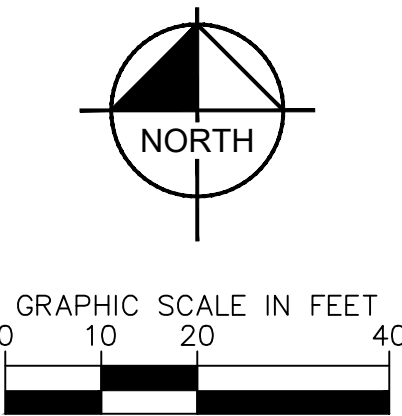
PROTOTYPE 18

HILLSBOROUGH CNTY FLORIDA

DRAWING

COVER SHEET

C1.1



UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

- HALT ALL ACTIVITIES AND CONTACT THE CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH CONSULTANT AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

PHASE 2:

4. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
5. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
6. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.

MAINTENANCE

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS FOR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF DETERIORATING OR DETERIORATION.
2. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED.
4. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
5. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
6. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION THROUGHOUT THE PERIOD OF CONSTRUCTION AND FOR PARKING AND STORAGE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

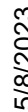
1. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCOMPASS THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.

3. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DERICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
4. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION PERMITS.
5. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE. AFTER DEMOLITION IS COMPLETE THE SITE SHALL BE DELIVERED IN A CONDITION SUITABLE FOR DEVELOPMENT.
6. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
7. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
8. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTES TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRAILING INTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
9. DEWATERING SHOULD BE ANTICIPATED AND INCLUDED.
10. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
11. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
12. CONTRACTOR SHALL INSTALL A CONTINUOUS SCREENED CONSTRUCTION FENCING ALONG PROJECT BOUNDARY.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY HILLSBOROUGH COUNTY AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. EXISTING RETAIL BUILDING SHALL HAVE UNDISRUPTED ACCESS AT ALL TIMES. ALL PARKING SPACES AND DRIVE AISLES OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL BE ACCESSIBLE AND SHIELDED FROM CONSTRUCTION ACTIVITIES AT ALL TIMES.

1. INFORMATION ON THE PLAN BASED UPON 'TARGET OUTPARCEL' PLANS PREPARED BY THOMAS ENGINEERING GROUP, DATED JANUARY 31, 2020

[illegible]

445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
PH: (772) 794-4100
REGISTRY NO. 696
KHA PROJECT # 047916134



Cheddar's

SCRATCH KITCHEN

2 4/5/23
COORDINATION COMMENTS

CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

PROTOTYPE 18

HILLSBOROUGH CNTY FLORIDA

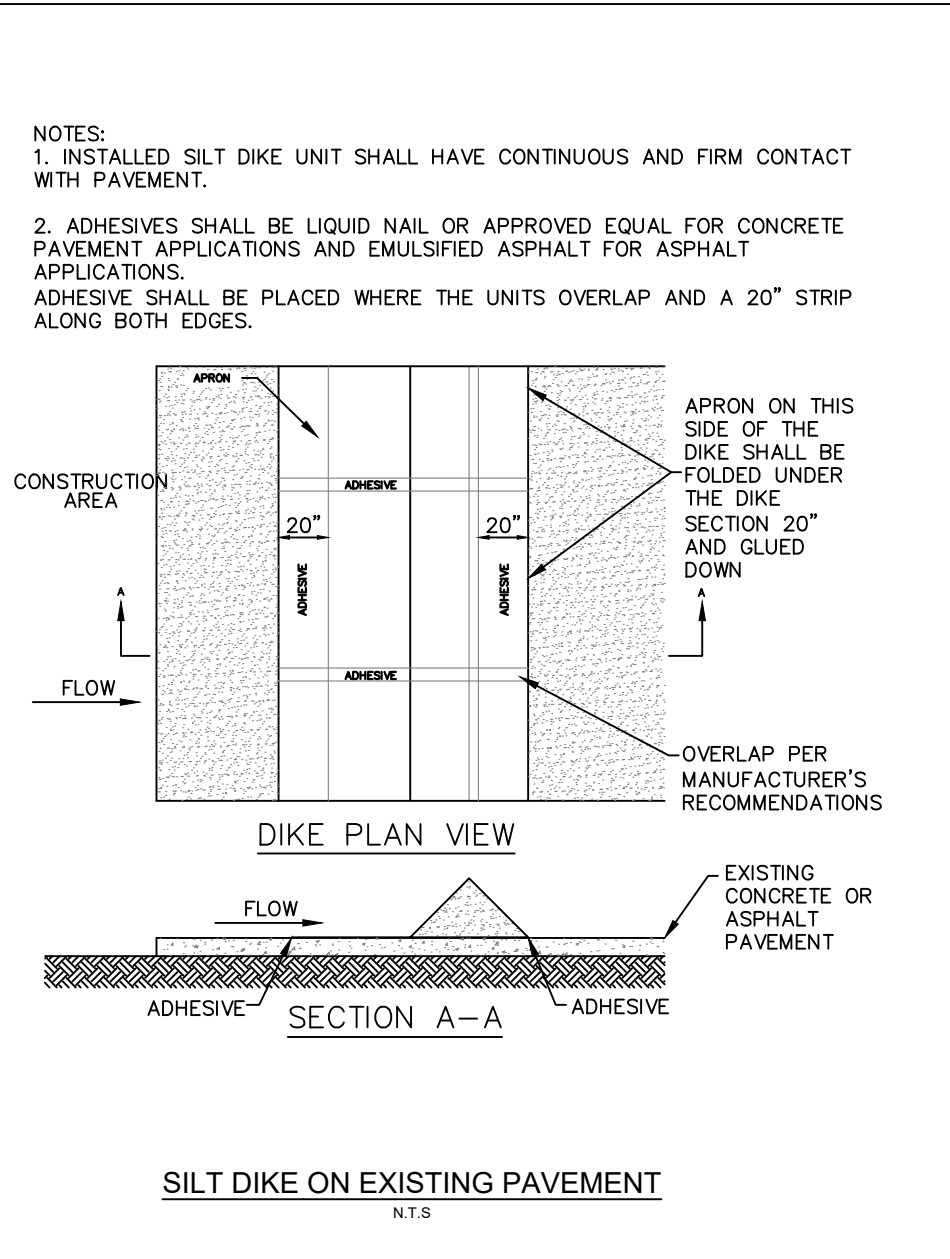
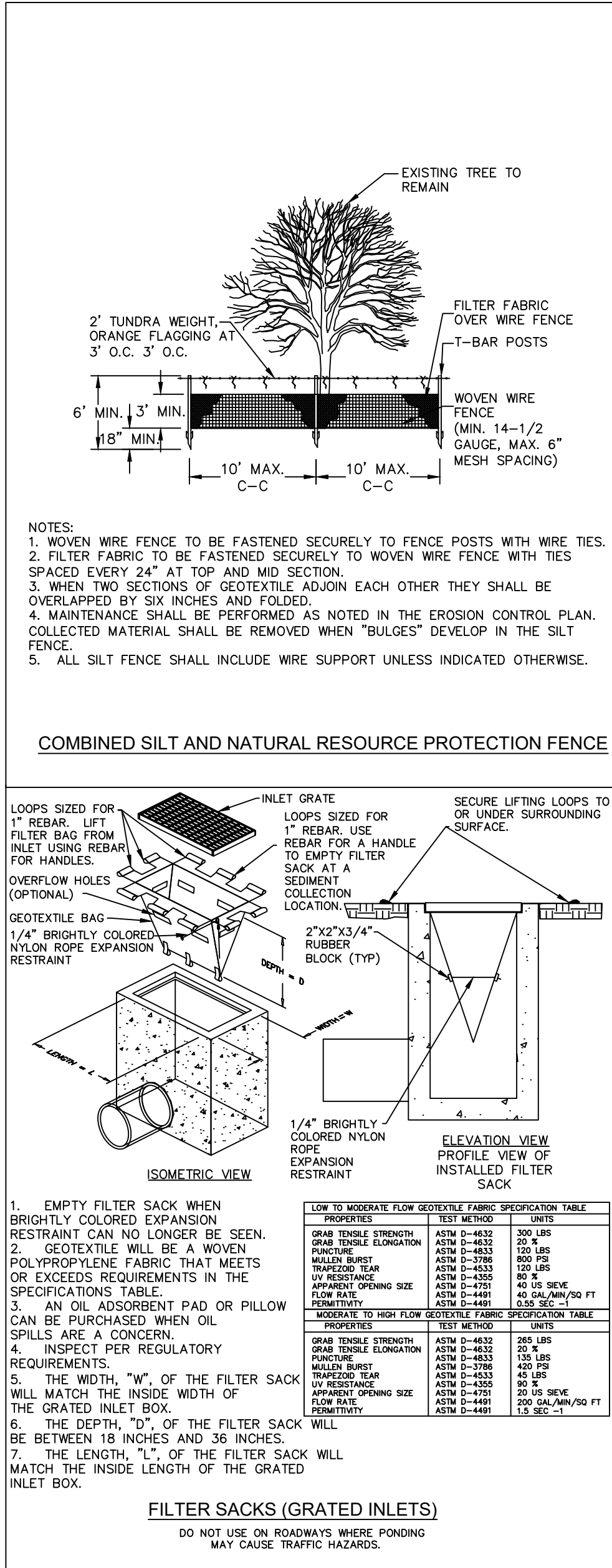
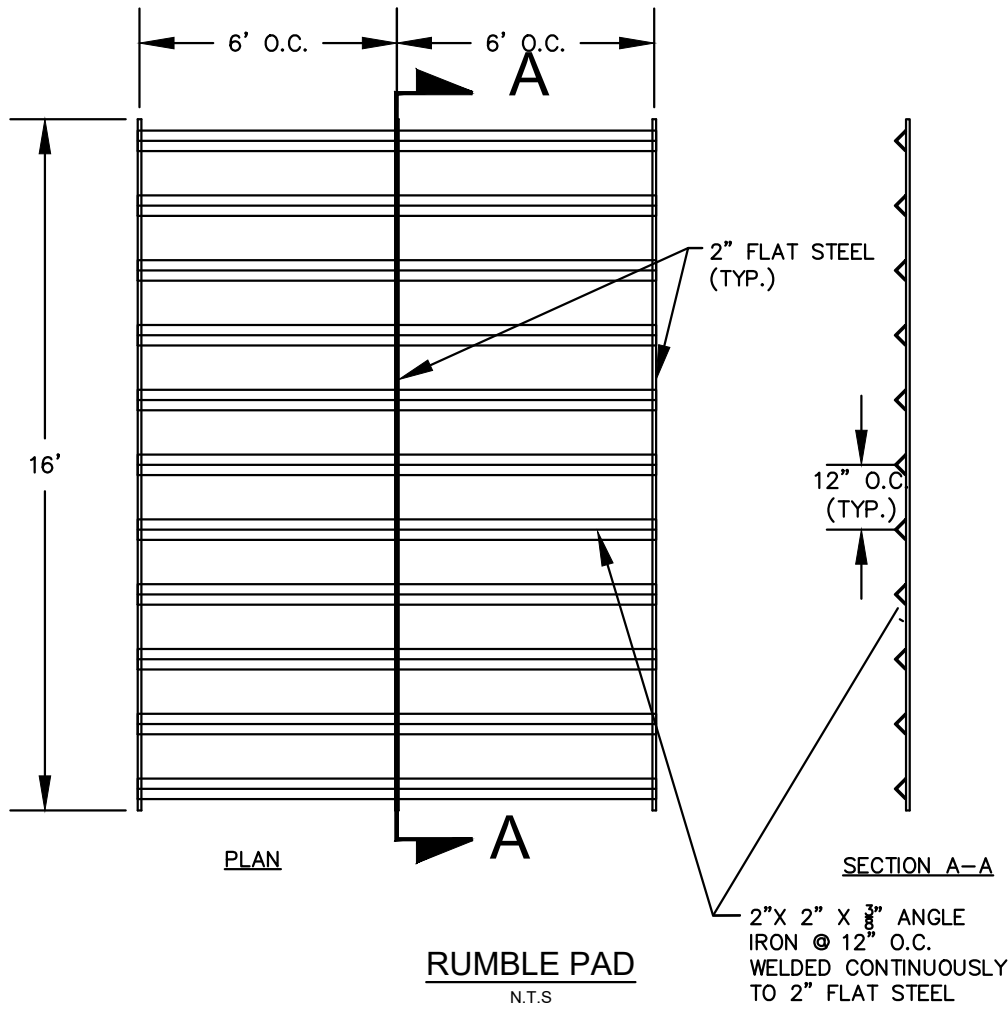
DRAWING
DEMOLITION AND
EROSION CONTROL
PLAN

C2.1

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[illegible]

Section 22	Name	Title	Company Name, Address and Phone Number	Date



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY KEVIN M. ROBERSON ON THE DATE
ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED

Issue Date: 02/15/23

REVISION INFORMATION

Restaurant #: 21K0037

CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

PROTOTYPE 18

HILLSBOROUGH CNTY FLORIDA

DRAWING

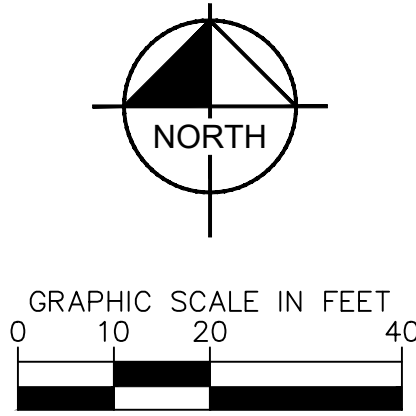
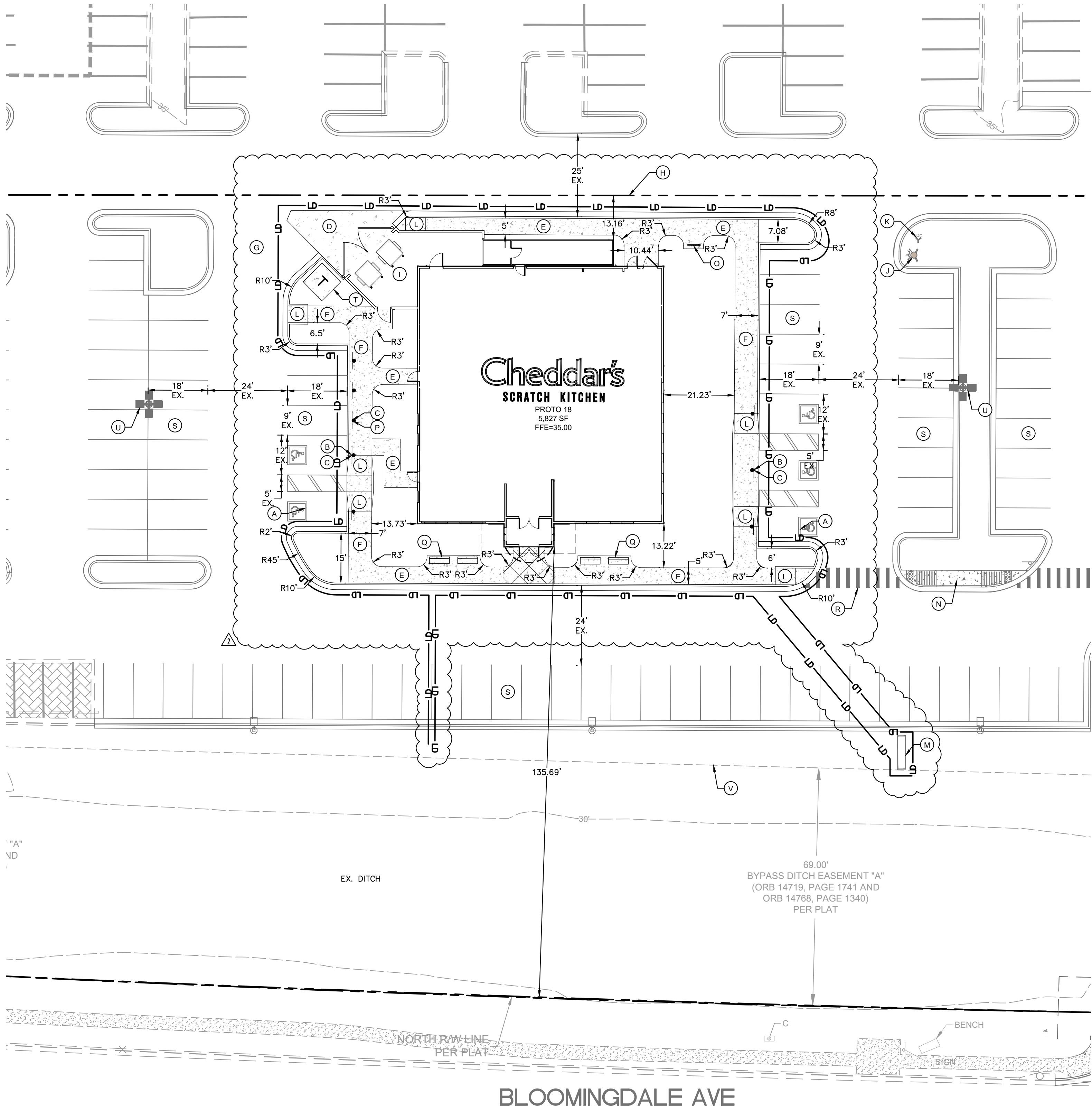
EROSION CONTROL DETAILS

C2.2

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com



- LEGEND**
- (A) ACCESSIBLE PARKING SPACE (TYP. OF 5) (BY DEVELOPER)(SEE DETAIL SHEET C7.1)
 - (B) ACCESSIBLE PARKING AND PENALTY SIGN (TYP. OF 5)(SEE DETAIL SHEET C7.1)
 - (C) 6" CONCRETE BOLLARD SIGN BASE (SEE DETAIL SHEET C7.1)
 - (D) THICKENED CONCRETE PAD (SEE DETAIL SHEET C7.1)
 - (E) 5' WIDE CONCRETE SIDEWALK
 - (F) 7' WIDE CONCRETE SIDEWALK
 - (G) LOADING ZONE (DELIVERIES AND GARBAGE TRUCK PICKUPS WILL BE MADE WHEN RESTAURANT IS NOT OPEN FOR BUSINESS)
 - (H) LEASE LINE
 - (I) DUMPSTER AREA (REFER TO ARCHITECTURAL PLANS)
 - (J) FIRE HYDRANT (BY DEVELOPER)
 - (K) FIRE DEPARTMENT CONNECTION (BY DEVELOPER)
 - (L) ACCESSIBLE RAMPS (SEE DETAIL SHEET C7.1)
 - (M) MONUMENT SIGN (REFER TO SIGNAGE PLANS FOR DETAILS)
 - (N) SIDEWALK (BY DEVELOPER)
 - (O) BIKE RACK (POWDER COATED LBR3PING 3 SPACES) (SUPPLIED BY GENERAL CONTRACTOR)
 - (P) TO-GO PARKING SIGN (TYP. OF 3) (REFER TO ARCH. PLANS FOR DETAIL)
 - (Q) BENCH (TYP. OF 4) (SEE ARCHITECTURAL PLANS FOR DETAIL)
 - (R) CROSSWALK (BY DEVELOPER)
 - (S) PARKING (BY DEVELOPER)
 - (T) TRANSFORMER
 - (U) LIGHT POLE (BY DEVELOPER)
 - (V) EXISTING EASEMENT

SITE DATA	
PROJECT DESCRIPTION:	CONSTRUCTION OF CHEDDAR'S SCRATCH KITCHEN
FOLIO NO:	073784-1003
LOCATION:	SECTION 5, TOWNSHIP 30S, RANGE 20E
ADDRESS:	10150 BLOOMINGDALE AVE RIVERVIEW, FL
ZONING DISTRICT:	PD (BLOOMINGDALE CROSSING 86-0077)
LAND USE:	COMMERCIAL
FLOOD ZONE:	ZONE X, AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 12057C0385J, EFFECTIVE DATE OCTOBER 7, 2021
SITE WORK AREA:	15,602 S.F. (0.36 AC.)
FLOOR AREA RATIO:	5,827 / 15,602 = 0.37
SITE COVERAGE:	PROVIDED
SITE WORK AREA:	15,602 S.F. (0.36 AC.) 100.0%
BUILDING AREA:	5,827 S.F. (0.13 AC.) 36.11%
IMPERVIOUS AREA:	5,373 S.F. (0.12 AC.) 33.33%
PERVIOUS AREA:	4,402 S.F. (0.11 AC.) 30.56%
BUILDING SETBACKS:	
FRONT (S)	30'
SIDE (E)	8'
SIDE (W)	0'
REAR (N)	0'
LANDSCAPE BUFFER	
FRONT (S)	8'
SIDE (E)	20'
SIDE (W)	20'
REAR (N)	20'
PARKING SUMMARY:	
PROPOSED CHEDDAR'S BUILDING	5,827 SF @ 15 SP/1,000 SF = 88 SPACES
TOTAL PARKING PROVIDED FOR OUTPARCEL (BY DEVELOPER) = 141 SPACES (INCLUDES 5 ADA SPACES)	
3 BIKE SPACES PROVIDED	

- SIGN LEGEND**
- (FTP-21-06) [Symbol: Wheelchair icon]
 - (FTP-22-06) [Symbol: Sign with text]
- SYMBOL LEGEND**
- [Symbol: Wheelchair icon] ACCESSIBLE PARKING SPACE
 - [Symbol: Concrete sidewalk pattern] CONCRETE SIDEWALK
 - [Symbol: Thickened concrete circle] THICKENED CONCRETE
 - [Symbol: Dashed line] PROPERTY LINE
 - [Symbol: Transformer pad] TRANSFORMER PAD
 - [Symbol: Limits of disturbance line] LIMITS OF DISTURBANCE

- NOTE:
- SEE SHEET C6.1 FOR CURBING AND PAVING INFORMATION.
 - SEE SHEET C7.1 FOR ACCESSIBILITY AND RAMP DETAILS.
 - ALL ITEMS SHOW AS "EX" ARE BY THE DEVELOPER.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY KEVIN M. ROBERSON ON THE DATE 05/08/2023. ANY CHANGES TO THIS DOCUMENT MUST BE MADE TO THE ORIGINAL AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ARCHITECTS PROJECT #:
DCH22007

Kimley»Horn

445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
PH: (772) 794-4100
REGISTRY NO. 696
KHA PROJECT # 047916134



Cheddar's
SCRATCH KITCHEN

Issue Date: 02/15/23

REVISION INFORMATION

2 4/5/23
COORDINATION COMMENTS

Restaurant #: 21K0037

CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

PROTOTYPE 18

HILLSBOROUGH CNTY FLORIDA

DRAWING

SITE PLAN

C3.1



1. THE CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND UTILITIES AND APPURTENANCES FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
2. THE LOCATION OF EXISTING UTILITIES, STORM DRAINAGE STRUCTURES AND OTHER ABOVE AND BELOW-GRADE IMPROVEMENTS ARE APPROXIMATE AS SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE AND INVERT ELEVATIONS OF SUCH PRIOR TO THE START OF CONSTRUCTION.
3. A MINIMUM OF 10' SEPARATION IS REQUIRED BETWEEN UTILITIES AND TREES UNLESS ROOT BARRIER IS INSTALLED. IF A TREE IS PLANTED WITHIN (5) FEET OF UTILITIES, IT SHALL BE MOVED AT THE OWNER/DEVELOPER EXPENSE.
4. GAS, PHONE AND ELECTRIC SERVICES SHOWN FOR INFORMATIONAL PURPOSES ONLY. DRY UTILITY COMPANIES MAY ALTER THE DESIGN LAYOUT DURING THEIR REVIEW.
5. FIRE SERVICES TO BE CONSTRUCTED USING DR14 PVC PIPE UNLESS OTHERWISE NOTED.
6. 6" SANITARY LATERALS MUST MAINTAIN A 1.04% MINIMUM SLOPE TO ENSURE PROPER FLOW.
7. GREASE INTERCEPTOR RIMS WITHIN TRAFFIC AREAS TO BE H-20 RATED OR BETTER. SEE PLUMBING PLANS FOR DETAIL.
8. FDC IS LOCATED 77.11 FEET FROM THE CHEDDAR'S BUILDING AND 5 FEET FROM THE NEAREST HYDRANT.
9. THE CLOSEST BUILDING CORNER IS 75.37 FEET FROM THE NEAREST HYDRANT AND THE FURTHEST BUILDING CORNER IS 388.42 FEET FROM THE NEAREST HYDRANT.
10. CONTRACTOR SHALL ADJUST EXISTING VALVES AND OTHER APPURTENANCES TO FINAL GRADE. ALL SURFACE UTILITIES TO REMAIN SHALL HAVE TRAFFIC-RATED LIDS IN PAVED AREAS.
11. CONTRACTOR TO PROVIDE AS-BUILTS AND ALL NECESSARY TESTS AND CERTIFICATION TO ENGINEER.
12. FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ON SITE.



NOTE:
PRIVATE FIRE SERVICE MAIN SHOWN
FOR ALIGNMENT PURPOSES ONLY. FIRE
SERVICE MAIN TO BE DESIGNED BY A
LICENSED FIRE SERVICE DESIGNER.
PRIVATE FIRE SYSTEM MAIN DESIGN
INSTALLATION IS PER NFPA 24.
PLUMBING CONTRACTOR MUST SECURE
FIRE SERVICE PERMIT.

Kimley»»Horn

The seal is circular with a dashed outer border. Inside the border, the text "KEVIN M. ROBerson" is written along the top arc, and "PROFESSIONAL ENGINEER" is written along the bottom arc. In the center, the text "STATE OF FLORIDA" is written vertically, and "LICENSE No. 52074" is written horizontally. There are two small stars, one at the top and one at the bottom, separating the top and bottom text.

Cheddar's

SCRATCH KITCHEN

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CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

HILLSBOROUGH CNTY FLORIDA

UTILITY PLAN

C4.1



Kimley»Horn

Creddar's

SCRATCH KITCHEN

REVISION INFORMATION

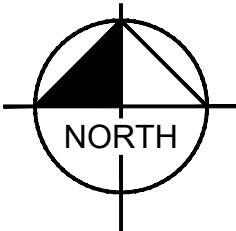
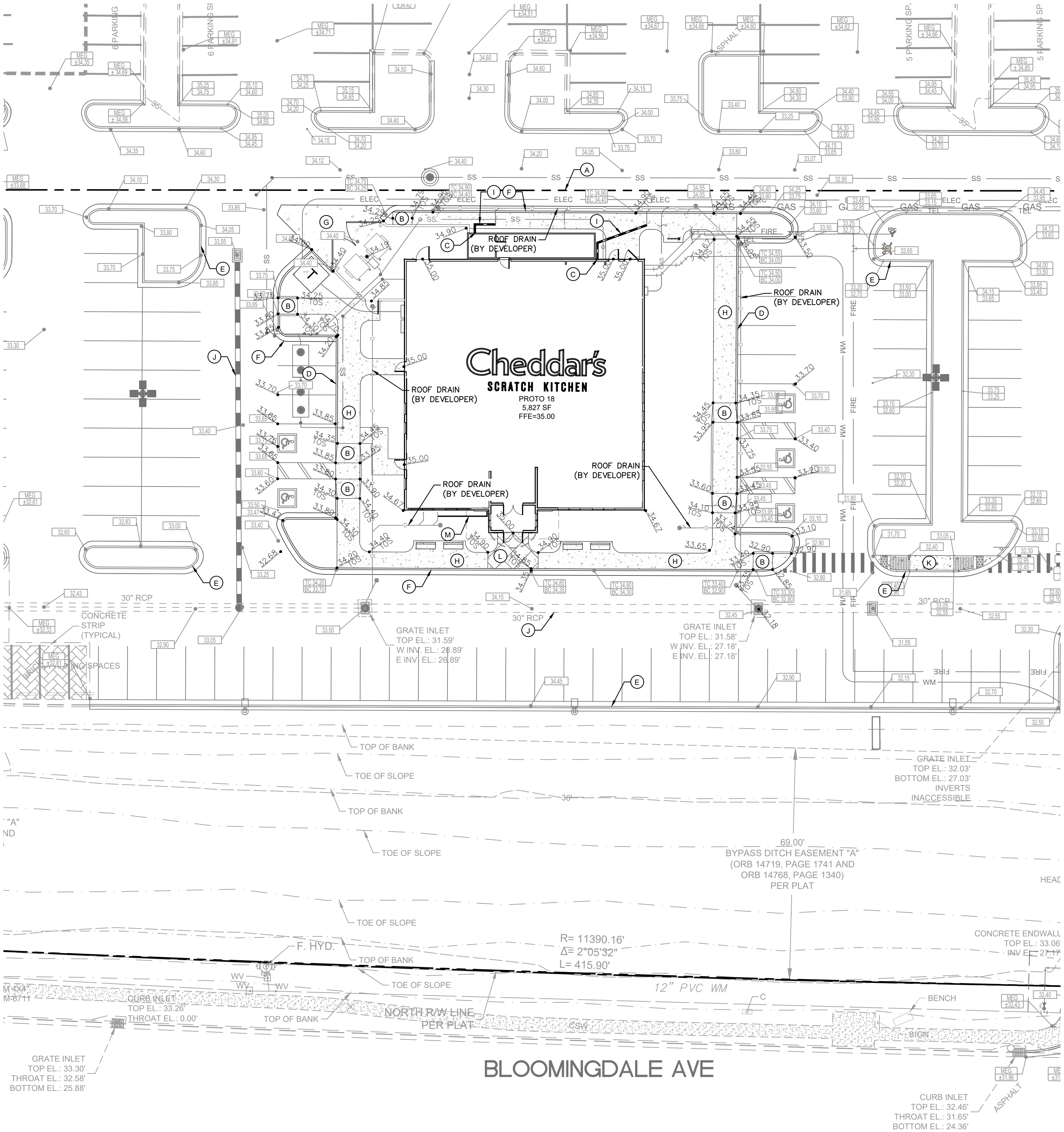
CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

HILLSBOROUGH CNTY FLORIDA

DRAWING

UTILITY DETAILS

C5.1



LEGEND

- (A) LEASE LINE
- (B) ACCESSIBLE RAMP (SEE DETAIL SHEET C7.1)
- (C) DOWNSPOUT (REFER TO PLUMBING PLANS FOR DETAIL)
- (D) FDOT TYPE "D" CURB (SEE DETAIL SHEET C7.1)
- (E) CURB (BY DEVELOPER)
- (F) FDOT TYPE "F" CURB (SEE DETAIL SHEET C7.1)
- (G) HEAVY DUTY CONCRETE
- (H) STANDARD CONCRETE SIDEWALK (SEE NOTE 4)
- (I) 6" PVC ROOF DRAIN @ 1.04% MIN.
- (J) EXISTING DRAINAGE PIPE (SIZE AS SHOWN)
- (K) SIDEWALK (BY DEVELOPER)
- (L) SCORED CONCRETE (SEE DETAIL SHEET C7.1)
- (M) 2" PVC ROOF DRAIN @ 1.04% MIN.

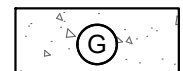
NOTES:

- CONTRACTOR TO VERIFY ALL EXISTING UTILITY RINGS AND COVERS ON SITE ARE HEAVY DUTY TRAFFIC RATED. CONTRACTOR TO REPLACE DEFICIENT RINGS AND COVERS WITH HEAVY DUTY TRAFFIC RATED RINGS AND COVERS. CONTRACTOR TO ADJUST RIM ELEVATIONS OF ANY UTILITIES THAT CHANGE IN ELEVATION DURING CONSTRUCTION. ALL EXISTING COVERS TO REMAIN SHALL BE ADJUSTED TO FINAL GRADE.
- ALL CLEANOUT COVERS SHOULD BE RATED FOR HEAVY DUTY TRAFFIC.
- ALL EXISTING PAVEMENT AND CONCRETE TO BE JOINED SHALL BE SAWCUT.
- SIDEWALKS AND CROSSWALKS SHALL NOT EXCEED 2% CROSS SLOPE NOR 5% LONGITUDINALLY. GRADES IN ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. IN CASES OF SIDEWALK LANDINGS AT BUILDING ENTRANCES, GRADES SHALL NOT EXCEED 2% IN ANY DIRECTION. ACCESSIBLE CURB RAMPS SHALL NOT EXCEED 6" IN LENGTH AND 1:12 SLOPE. LANDINGS AT CHANGES IN DIRECTION SHALL BE MINIMUM 60"x60" AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
- SPOT ELEVATIONS ARE AT FACE OF CURB UNLESS OTHERWISE NOTED.
- EXISTING INFORMATION HAS BEEN TAKEN FROM A "TARGET OUTPARCEL" PLANS PREPARED BY THOMAS ENGINEERING GROUP, DATED JANUARY 31, 2020.
- FLOOD ZONE: X, AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 12057C0389J, EFFECTIVE DATE OCTOBER 7, 2021. NO BASE FLOOD ELEVATION.
- ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
 - FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER.
 - FOR RCP DRAINAGE PIPE MAKE CONNECTION PER FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL.
 - NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
- ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI AT 28 DAYS WITH FIBERMESH REINFORCEMENT.
- STORM DRAIN PIPE SHALL BE AS FOLLOWS:
 - RCP CLASS III PER ASTM C-76
 - ALUMINIZED STEEL TYPE 2 ULTRA FLO 48" AND SMALLER SHALL BE 3/4"x3/4"x7'-1/2" CORRUGATION 16 GA WITH A MINIMUM THICKNESS OF 0.064" 54" AND LARGER SHALL BE 3/4"x3/4"x7'-1/2" CORRUGATION 14 GA WITH A MINIMUM THICKNESS OF 0.079"
 - CORRUGATED POLYETHYLENE PIPE PER AASHTO M294
 - JOINTS SHALL BE WATER TIGHT
 - ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES. CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

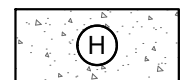
xx.xx PROPOSED GRADE

10-34.50 10-34.50 EXISTING GRADES (FROM DEVELOPER PLANS)

TOC TOP OF CURB GRADE
TOS TOP OF SIDEWALK GRADE
EX DENOTES EXISTING FEATURE



THICKENED CONCRETE PAVEMENT

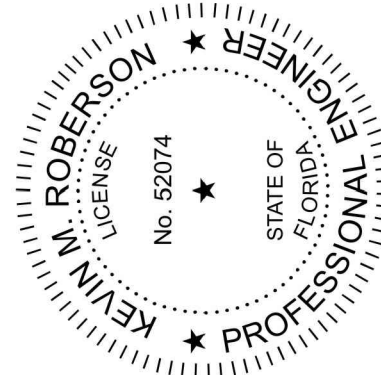


STANDARD CONCRETE SIDEWALK

ARCHITECTS PROJECT #:
DCH22007

Kimley»Horn

445 24TH STREET, SUITE 200
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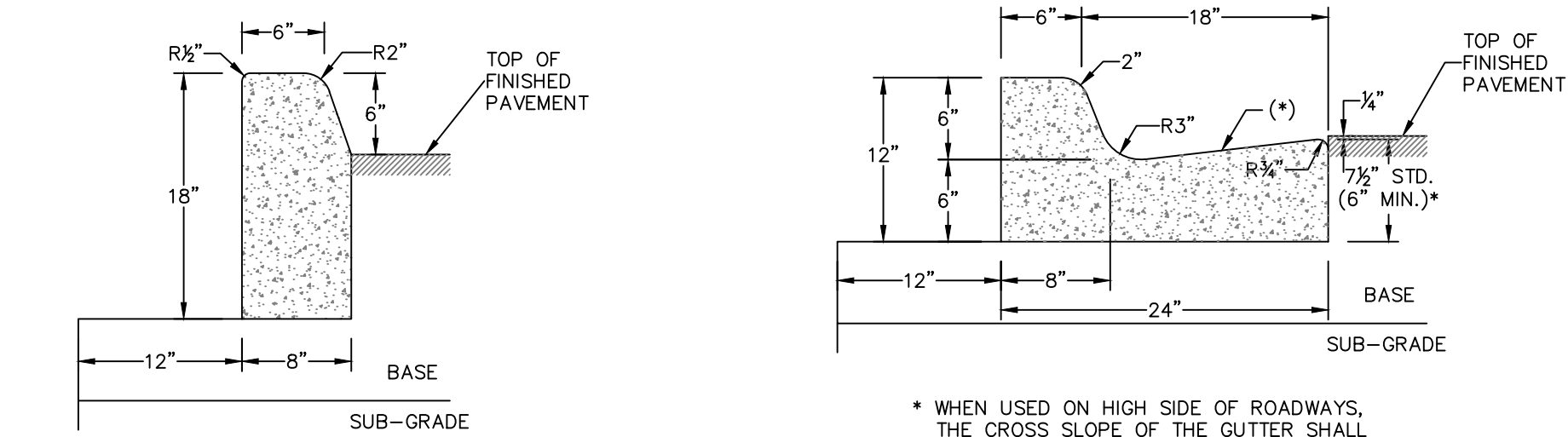
DRAWING

PAVING, GRADING AND
DRAINAGE PLAN

C6.1

Drawing name: K:\VRB_LDEV\047916 - Darden\134_CSK RiverView\CADD\PlanSheets\110-C7.1 PAVING, GRADING AND DRAINAGE DETAILS.dwg 110-C7.1 PAVING, GRADING AND DRAINAGE DETAILS 110-C7.1 PAVING, GRADING AND DRAINAGE DETAILS May 08, 2023 1:01pm by: Liz Weeks

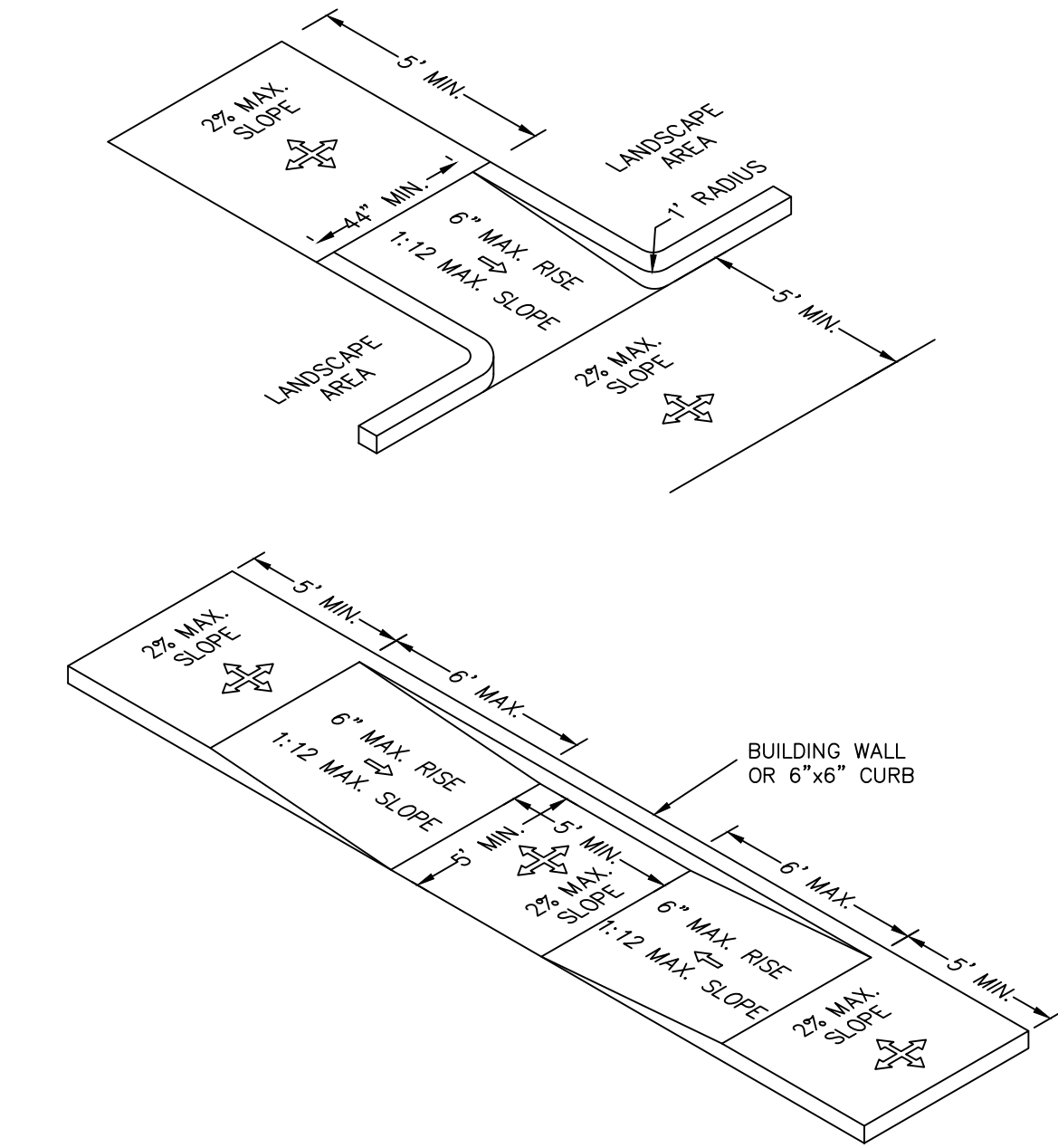
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FDOT TYPE "D" CURB
scale: N.T.S. ref. C3.1, C6.1

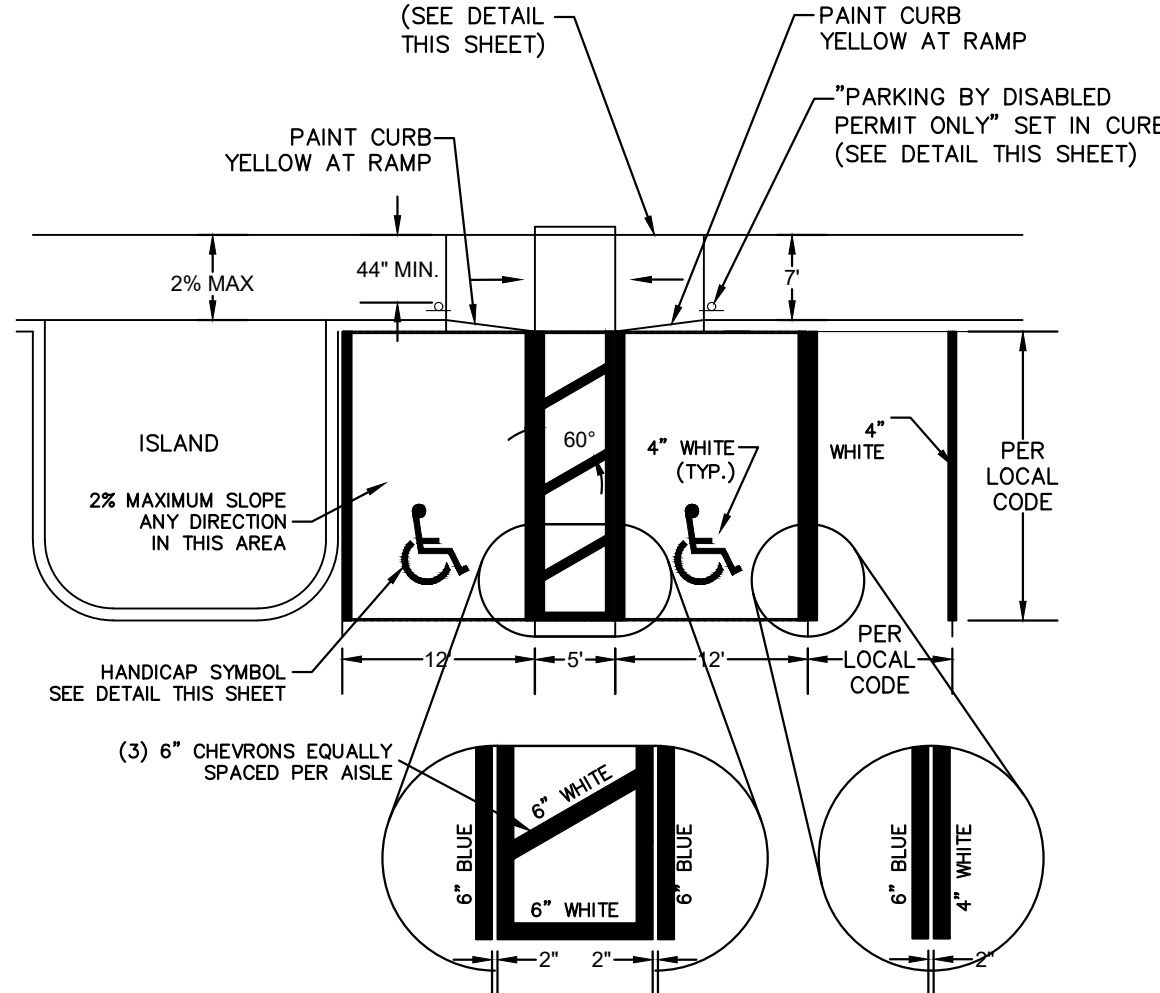
* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON THE PLANS. ASPHALT SURFACE ON HIGH SIDE TO BE FLUSH WITH LIP OF CURB OR CURB & GUTTER.

FDOT TYPE "F" CURB
scale: N.T.S. ref. C3.1, C6.1

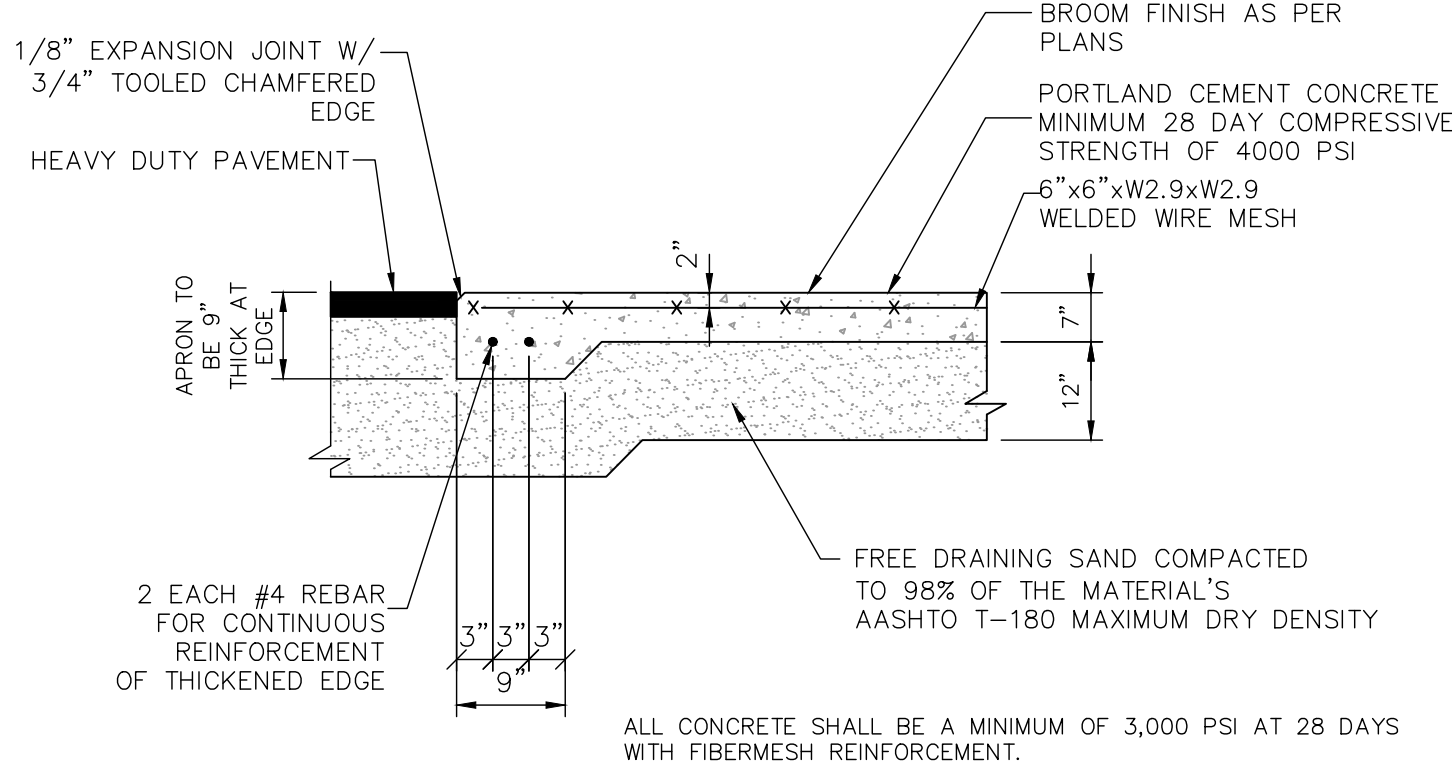


ACCESSIBLE RAMPS
scale: N.T.S. ref. C3.1

- ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH CHAPTER 11 OF THE FLORIDA BUILDING CODE.
 - ACCESSIBLE ROUTE TO ACCESSIBLE SPACES, BUILDING ENTRANCES, AND PUBLIC STREETS SHALL NOT EXCEED 5% RUNNING SLOPE AND 2% CROSS SLOPE.
 - UNLESS OTHERWISE SHOWN ON THE PLANS, THE MINIMUM CLEAR ROUTE SHALL BE 36" WIDE WITH A 60" X 60" PASSING SPACE EVERY 200 FEET.
 - ACCESSIBLE ROUTES THROUGH PLANTERS SHALL BE LEVEL WITH THE SURROUNDING PAVEMENT OR PROVIDE CURB RAMPS AT EACH END WITH A MINIMUM 48" LEVEL LANDING IN BETWEEN.
 - THE ACCESSIBLE ROUTE IN FRONT OF PULL-IN PARKING SHALL BE A MINIMUM OF 44" WIDE AND NOT REDUCED BY VEHICLE OVERHANGS, CURBING, SIGN POSTS, OR OTHER OBSTRUCTIONS.
 - SPECIAL RAMP RULES APPLY FOR ANY RISE GREATER THAN 6" INCLUDING BUT NOT LIMITED TO RESTRICTION ON SLOPE, TOTAL RISE BETWEEN LANDINGS, AND USE OF HANDRAILS, PER F.B.C. 11-4.8.
 - PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT-OF-WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET THE REQUIREMENTS OF F.D.O.T. INDEX 304.
- WHEN ACCESSIBLE PARKING ADJUTS CURB OR EDGE OF PAVEMENT, PLEASE REFER TO DETAIL FOR STRIPING COLOR, STALL DIMENSIONS AND SLOPE.
- CHANGE IN LEVEL ALONG ACCESSIBLE ROUTE IS NOT TO EXCEED 1/2" WITHOUT A RAMP PER SECTION 11-4.8.
- ALL HANDICAPPED PARKING SPACES SHALL BE SIGNED AND MARKED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS INDEX 17346.



ACCESSIBLE PARKING-STRIPING DETAIL
scale: N.T.S. ref. C3.1

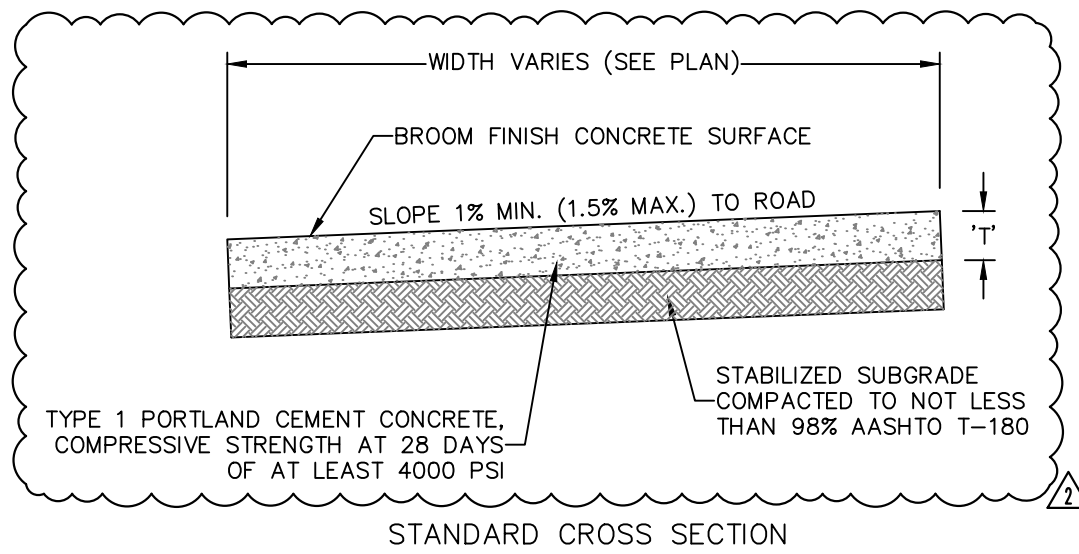


THICKENED CONCRETE PAVEMENT AT DUMPSTER PAD
scale: N.T.S. ref. C6.1

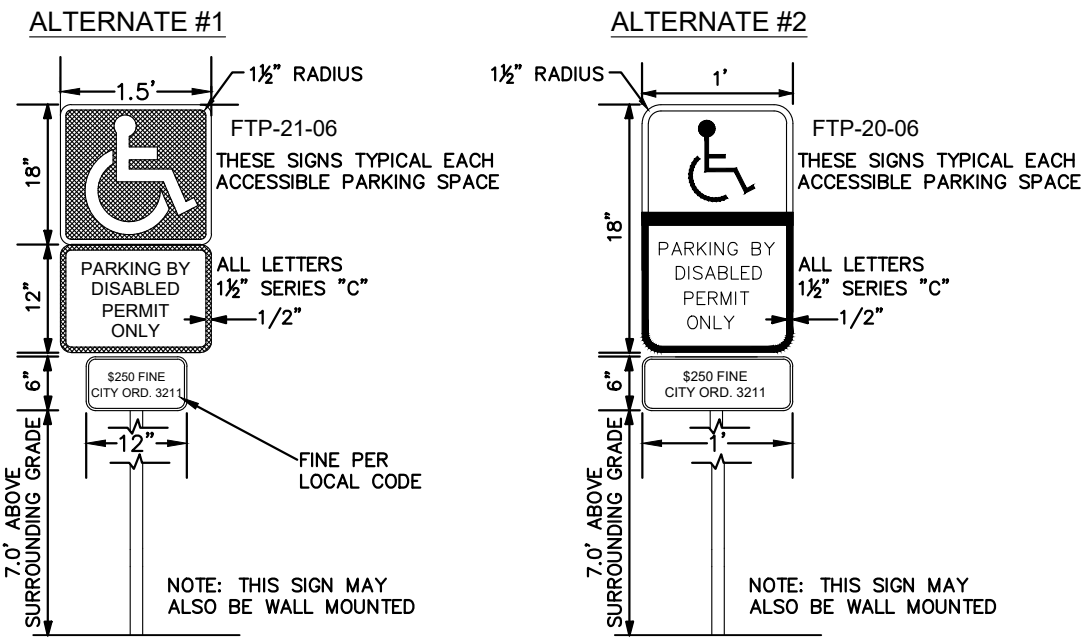
TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	100' MAX. SPACING, P.C./P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS.
'B'	5'-0" CENTER TO CENTER
'C'	WHERE SIDEWALK ADJUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES.

TABLE OF SIDEWALK THICKNESS	
LOCATION	"
PEDESTRIAN ONLY AREAS	5"
DRIVEWAYS AND OTHER TRAFFIC AREAS	7"

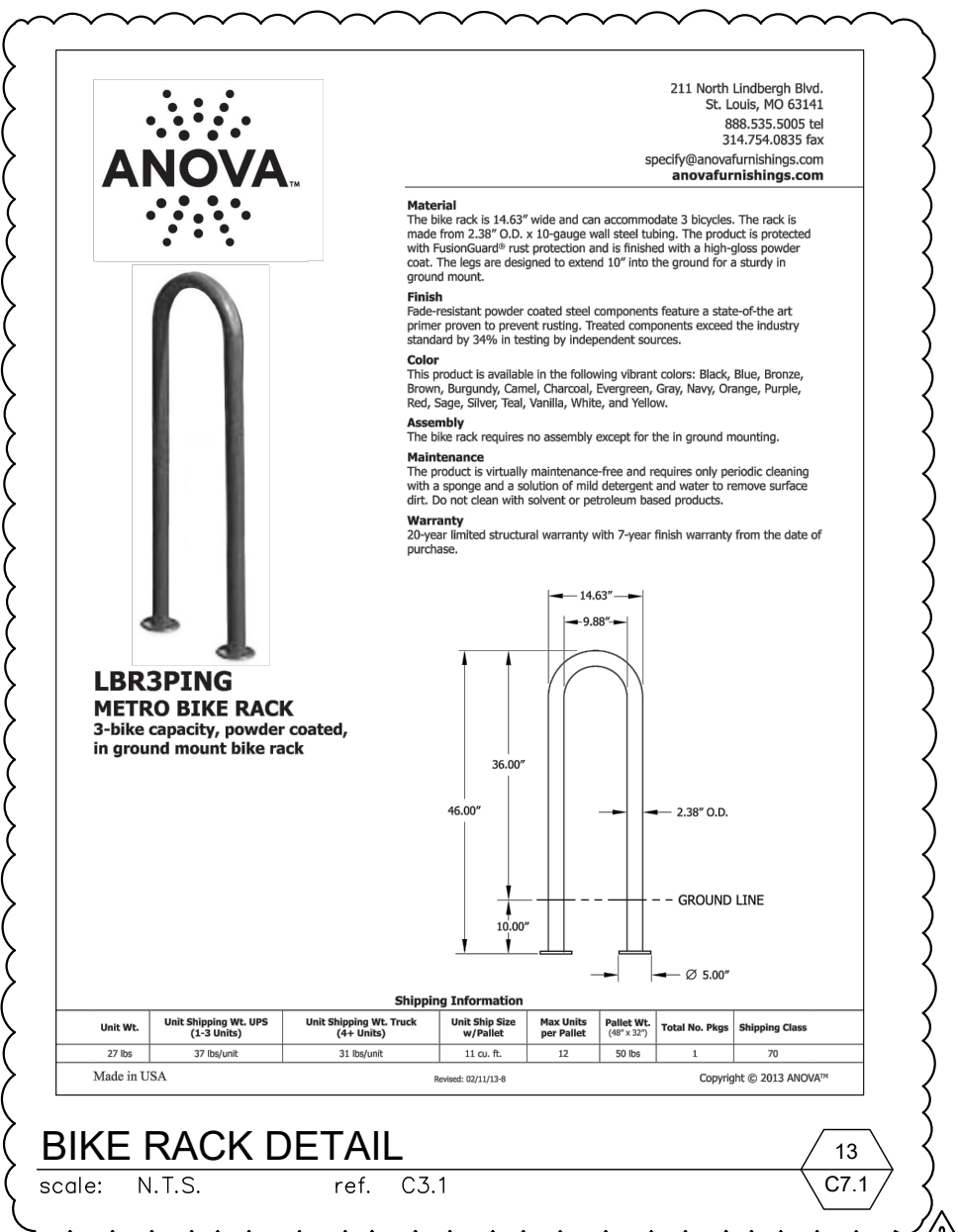
NOTE: ALL SIDEWALK STREET CROSSINGS MUST MEET THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT (ADA) COMPLIANCE GUIDE. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI AT 28 DAYS WITH FIBERMESH REINFORCEMENT.



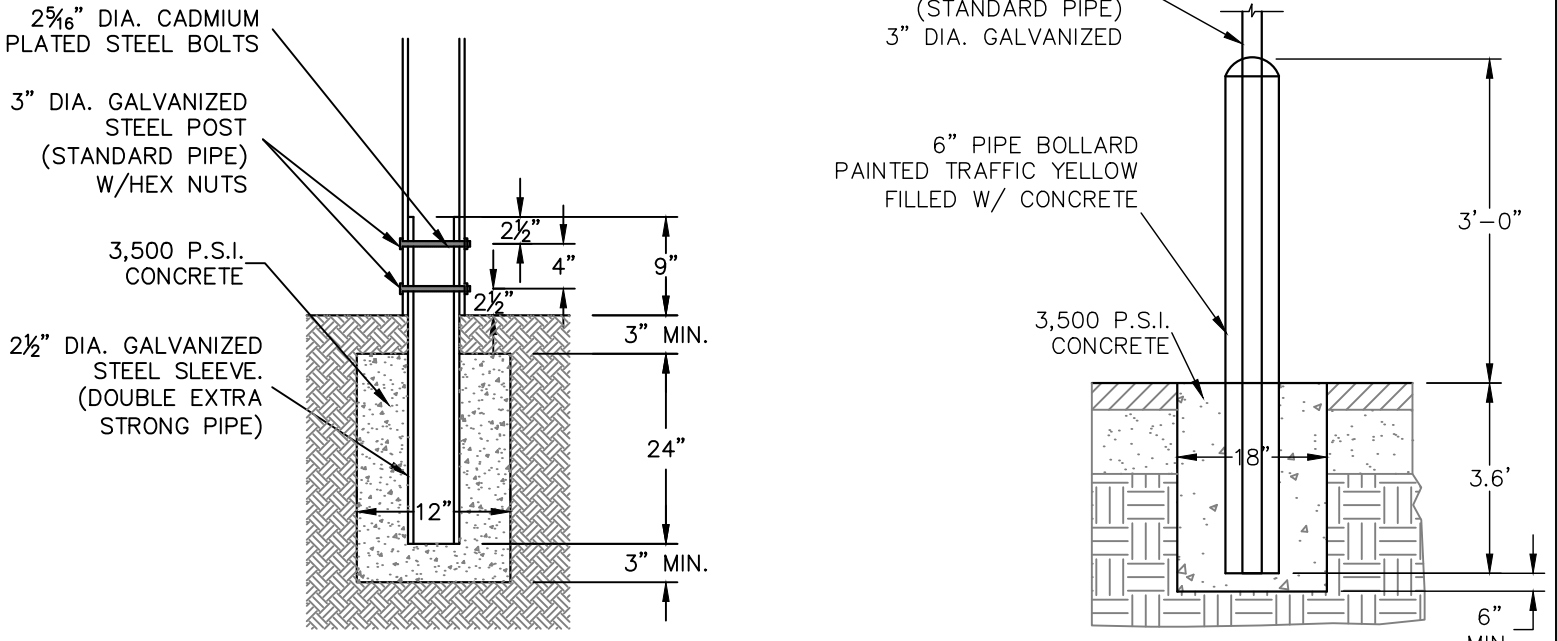
CONCRETE SIDEWALK AND BENCH PAD
scale: N.T.S. ref. C6.1



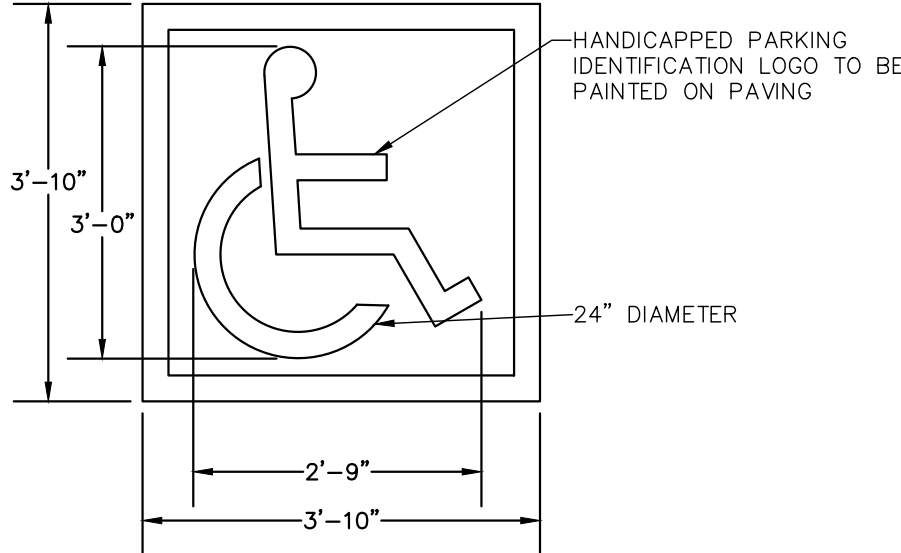
ACCESSIBLE PARKING SIGN DETAIL
scale: N.T.S. ref. C3.1



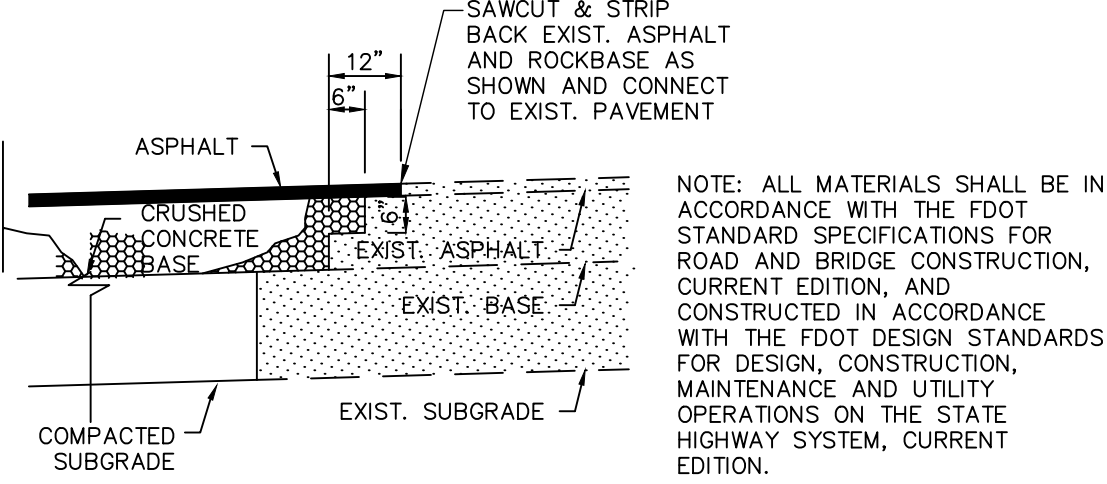
BIKE RACK DETAIL
scale: N.T.S. ref. C3.1



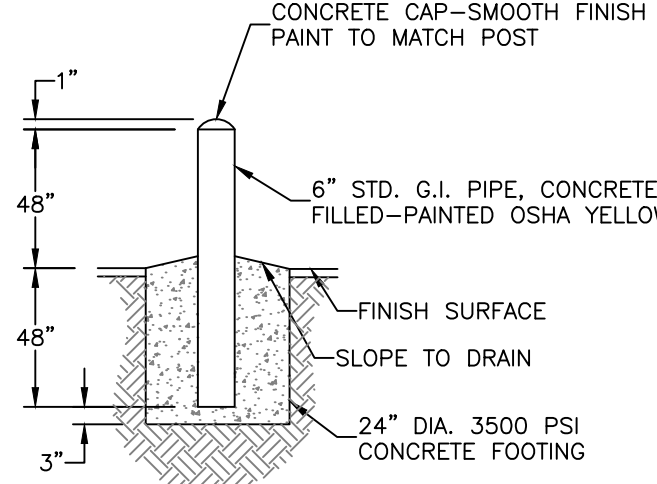
SIGN BASE DETAIL
scale: N.T.S. ref. C3.1



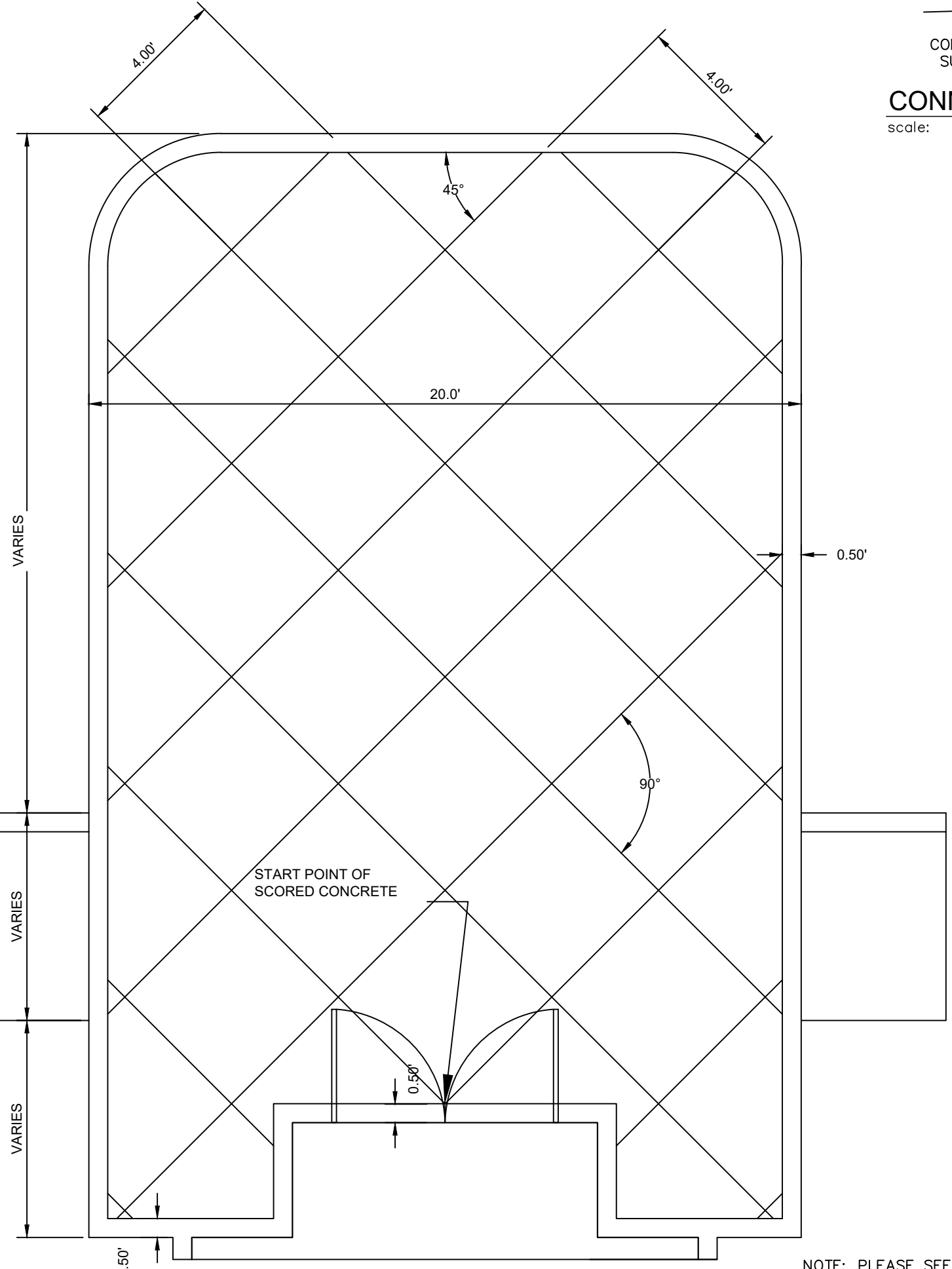
HANDICAP SYMBOL DETAIL
scale: N.T.S. ref. C3.1



CONNECTION TO EXISTING PAVEMENT DETAILS
scale: N.T.S. ref. C6.1



PIPE BOLLARD DETAIL
scale: N.T.S. ref. C3.1, C4.1



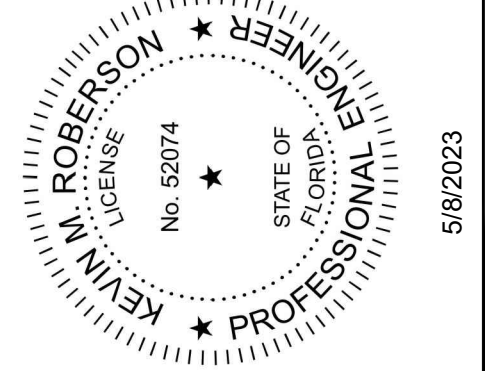
ENTRANCE DETAIL
scale: N.T.S. ref. C3.1, C4.1

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HILLSBOROUGH CNTY FLORIDA

DRAWING

PAVING, GRADING AND
DRAINAGE DETAILS

C7.1

Part 2.00 Products

- 2.01 MATERIALS
- A. General: The particular type of stabilizing material to be used shall be in accordance with Paragraph 2.01.E hereinafter and shall meet the following requirements:
- B. Use of Materials from Existing Base: If the material from the existing base is called for, the Engineer will direct the distribution of such materials, and this work shall be done prior to the spreading of any additional commercial or local materials. Removal of any section of existing base will be required until it is maintained in a condition that traffic is maintained.
- C. The utilization of materials from an existing base may be called for in conjunction with the designated type of stabilizing.
- D. Commercial Materials: 1. General: Materials that are designated as Commercial Materials that are to be used for stabilizing may be either commercial limerock, limerock overburden or crushed shell, or state DOT specified. 2. Limerock: For limerock and limerock overburden, the percentage of carbonates of calcium and magnesium shall be at least 70, and the plasticity index shall not exceed 10. The gradation with commercial limerock and limerock overburden shall be such that 97 percent of these materials will pass a 1-inch sieve. 3. Crushed Shell: Crushed shell for this use shall be mollusk shell (i.e., oysters, mussels, clams, cemented coquina, etc.). Steamed shell will not be permitted. This shell shall meet the following requirements: a. At least 97 percent by weight of the total material shall pass a 3/16-inch screen and at least 50 percent by weight of the total material shall be retained on the No. 4 sieve. b. Not more than 20 percent by weight of the total material shall pass the No. 200 sieve. The determination of the percentage passing the No. 200 sieve shall be made by washing the material over the sieve. c. In the event that the shell meets the above requirements without crushing, crushing will not be required.
- D. Local Materials: 1. General: Local materials used shall be high-bearing-value soils of sand-ay clay material. The material passing the 40-mesh sieve shall be a liquid limit not greater than 40 and a plasticity index not greater than 10. 2. Blending: No blending of materials to meet these requirements will be permitted unless authorized by the Engineer. When blending is permitted, the blended material shall be tested and approved before being spread on roadways or parking area. E. Type B Stabilization: 1. The type of materials, Commercial or Local, shall be at the Contractor's option. 2. No separate payment for stabilizing materials will be made. 3. Under this method, it shall be the Contractor's responsibility that the finished subgrade section meets the bearing value requirements, regardless of the quantity of stabilizing materials necessary to be added. Also under this method, full payment will be made for any areas where the existing sub-grade materials meet the design bearing value requirements without the addition of stabilizing additives, as well as areas where the Contractor may elect to place stabilizing material to equal or exceed the bearing value within the limits of the stabilizing. 4. After the subgrade grading operations have been substantially completed, the Contractor shall make his own determination as to the quantity (by volume) of stabilizing material, of the type selected by him, necessary for compliance with the bearing value requirements. The Contractor shall submit the Engineer of the appropriate quantity to be added, and the spreading and mixing in of such quantity of materials shall meet the approval of the Engineer as to uniformity and effectiveness.

Part 3.00 Execution

- 3.01 PREPARATION
- A. General: 1. Prior to the beginning of stabilizing operations, the area to be stabilized shall have been constructed to an elevation such that upon completion of stabilizing operations the completed stabilized subgrade will conform to the lines, grades and cross-section shown in the plans. Prior to the spreading of any additive stabilizing material, the surface of the subgrade shall be prepared to a plane approximately parallel to the plane of the proposed finished surface. 2. The subgrade shall be stabilized may be processed in one course, unless the equipment and methods being used do not provide the required uniformity, particle size limitation, compaction and other desired results, in which case, the Engineer will direct that the processing be done in more than one course.
- 3.02 APPLICATION
- A. Stabilizing Material: 1. When spreading stabilizing materials are required, the designated quantity shall be spread uniformly over the area to be stabilized. 2. When materials from an existing base are to be utilized in the stabilizing at a particular location, the material shall be placed and spread prior to the addition of other stabilizing additives. 3. Commercial stabilizing material shall be spread by the use of mechanical material spreaders except that where use of such equipment is not practicable other means of spreading may be used, but only upon written approval by the Engineer of the proposed alternate method. B. Mixing: 1. The mixing shall be done with rotary tillers, or other suitable equipment. The area to be stabilized shall be thoroughly mixed throughout the entire depth and width of the stabilizing limits. 2. The mixing operations, as specified, will be required regardless of whether the existing soil, or any select soils placed within the limits of the stabilized sections, have the required bearing value without the addition of stabilizing materials. C. Maximum Particle Size of Mixed Materials: At the completion of mixing, all particles of material within the limits of the area to be stabilized shall pass a 3/16-inch ring. Any particles not meeting this requirement shall be removed from the stabilized area or shall be broken down so as to meet this requirement. D. Compaction: After the mixing operations have been completed and requirements for bearing value, uniformity and particle size have been satisfied, the stabilized area shall be compacted. In accordance with Paragraph 3.03.B hereinafter, the material shall be compacted at a moisture content permitting the specified compaction. If the moisture content of the material is greater than the specified density, and either water shall be added or the material shall be permitted to dry until the proper moisture content for the specified compaction is reached. E. Finish Grading: The completed stabilized subgrade shall be shaped to conform with the finished lines, grades and cross-section indicated in the Drawings. The subgrade shall be checked by the use of elevation stakes, or other means approved by the Engineer. F. Requirements for Condition of Completed Subgrade: 1. After the stabilizing and compacting operations have been completed, the subgrade shall be firm and substantially unyielding, to the extent that it will support construction equipment and will have the bearing value required by the Drawings. 2. All soft and yielding material, and any other portions of the subgrade that will not compact readily, shall be removed and replaced with suitable material and the whole subgrade brought to line and grade, with proper allowance for subsequent compaction. G. Maintenance of Completed Subgrade: After the subgrade has been completed as specified above, the Contractor shall maintain it free from ruts, depressions and any damage resulting from the hauling or handling of materials, equipment, tools, etc. It shall be the Contractor's responsibility to maintain the required density until the subsequent base or pavement is in place. Such responsibility shall include any repairs, repaving, etc., of curb and gutter, sidewalk, etc., which might become necessary in order to recompact the subgrade in the event of underwash or other damage occurring to the previously compacted subgrade. Any such work required for recompaction shall be at the Contractor's expense. Ditches and drains shall be constructed and maintained along the completed subgrade section to provide adequate drainage.

- 3.03 FIELD QUALITY CONTROL
- A. Bearing Value Requirements: 1. General: Bearing value samples will be obtained and tested by the Engineer at completion of satisfactory mixing of the material. For any area where the bearing value obtained is deficient from the value indicated in the Drawings, in excess of the tolerances established herein, additional stabilizing material shall be spread and mixed in accordance with 3.02.B.1 & 2. This reprocessing shall be done for the full width of the roadway being stabilized and longitudinally for a distance of 5 feet beyond the limits of the area in which the bearing value is deficient. The Contractor shall make his own determination of the quantity of additional stabilizing material to be used in reprocessing. B. Density Requirements: 1. General: Within the entire limits of the width and depth of the area to be stabilized, the minimum density acceptable at any location will be 98 percent of the maximum density as determined by AASHTO T-180, Test Method D. 2. Testing: Tests for the subgrade bearing capacity and compaction shall be made on more than 300 test feet apart and shall be staggered to the left, right and on the centerline and on the centerline of the road on test per 1,100 square yards of stabilized area in parking areas, at locations to be determined by the Engineer.
- END OF SECTION

TEMPORARY EROSION AND SEDIMENTATION CONTROL

- 1.01 WORK INCLUDED
- A. The work specified in this Section consists of designing, providing, maintaining and removing temporary erosion and sedimentation controls as necessary. B. Temporary erosion controls include, but are not limited to, grading, mulching, seeding, watering and reseeding on-site surfaces and spoil and borrow area surfaces, and providing interceptor ditches of ditches of berms, installing silted silt barriers or floating silt barriers at those locations which will ensure that erosion and pollution during construction will be prevented in accordance with state DOT Standard Specifications for Road and Bridge Construction (latest edition). C. Contractor is responsible for providing effective temporary erosion and sedimentation control measures during construction or until final controls become effective, so as to ensure that sedimentation and/or turbidity problems are not created in the receiving water bodies. The Contractor shall be responsible for the correction of any erosion, flooding, or water quality problems that result from the construction or operation of the surface water management system. D. Sufficient precautions shall be taken during construction to minimize the runoff of polluting substances such as silt, clay, fuels, oils, bitumens, calcium chloride, or other polluting materials harmful to humans, fish, or other life, into the supplies and surface waters of the State. Control measures must be adequate to assure that turbidity in the receiving water will not be increased in the receiving water more than 25 nephelometric turbidity units (NTU). Special precautions shall be taken in the use of construction equipment to prevent operations that promote erosion. E. Temporary sedimentation controls, but are not limited to, silt dams, traps, barriers, and outpourments at the foot of sloped surfaces which will ensure that sedimentation pollution will be either eliminated or maintained within acceptable limits as established by the Owner. F. Temporary erosion and sediment control measures shall include effective means to maintain water quality prior to discharge from project site.

- 1.02 RELATED WORK
- A. Section 02210 - Site Earthwork
B. Section 02332 - Seeding and Mulching
C. Section 02334 - Sodding
- 1.03 SUBMITTALS
- A. The Contractor shall be required to submit to state and local agencies (with copy to the Owner and Engineer) for review and approval the program for temporary erosion and sediment control to be implemented by the Contractor. The program shall include, but not be limited to, the following: 1. A description of the erosion and sediment control measures required by the agencies shall be obtained and paid for by the Contractor. 2. The approval by the state and local agency of the Contractor's program in no way relieves the Contractor from the responsibility to meet all applicable rules, regulations, and permitting conditions.

Part 2.00 Products

- 2.01 EROSION CONTROL
- A. Materials to control erosion and sedimentation shall comply with Section 104 of FDOT Standard Specifications for Road and Bridge Construction and FDOT Roadway and Traffic Design Standards, Index No. 103.
- 2.02 SEDIMENTATION CONTROL
- A. Install and maintain silt dams, traps, barriers, and other outpourments as necessary. Hay bales, which deteriorate, and filter stone which dislodges, shall be replaced.
- Part 3.00 Execution
- 3.01 PREPARATION
- A. Minimum procedures for grading are: 1. Scarify slopes to a depth of not less than six inches and remove large clods, rock, stumps, roots larger than 1/2-inch in diameter, and debris. 2. Sow seed within twenty-four (24) hours after the ground is scarified with either mechanical seed drills or rotary band seeders. 3. Apply mulch loosely and to a thickness of 1/2-inch and 1-1/2 inches. 4. Apply netting over mulched areas on sloped surfaces. B. Roll and water seeded areas in a manner that will encourage sprouting of seeds and growing of grass. Reseed areas which exhibit unsatisfactory growth. Backfill and seed eroded areas.

- 3.02 PERFORMANCE
- A. Should any of the temporary erosion and sedimentation control measures employed by the Contractor fail to produce results which comply with the requirements of this specification, the Contractor shall immediately take whatever steps necessary to correct the deficiency.

END OF SECTION

SECTION 02285

TERMITES CONTROL

- 1.01 SECTION INCLUDES
- A. Soil poisoning treatment.
B. Warranty
- 1.02 INTENT
- A. To guard against termites and other common ground insects detrimental to wood construction. Materials mentioned in Part 2.00 of this Specification are suggested for use but shall not be used if disallowed by governing laws and/or ordinance.
- 1.03 QUALITY ASSURANCE
- A. Application: 1. Contractor specializing in soil treatment for termite control with five years documented experience. B. Materials: 1. Provide certification that toxicants conform to requirements.
- 1.04 REGULATORY AGENCY REQUIREMENTS
- A. Authority to governing authority requirements for application licensing and approval to use toxicant chemicals.
- 1.05 SUBMITTALS
- A. Product Data: 1. Submit per SUBMITTALS Section: Indicate toxicants to be used, composition by percentage, dilution schedule, and intended application rate. Owner's acceptance is required prior to shipment. B. Manufacturer's Installation Instructions: Submit per SUBMITTALS Section.
- 1.06 GUARANTEE
- A. Bonded guarantee which covers against invasion or propagation of subterranean termites, damage to building or building contents caused by termites; repairs to building or building contents so caused, for a period of five years after substantial completion; subject to annual renewal thereafter.

Part 2.00 Products

- 2.01 TOXICANT MATERIALS
- A. Termidor, BASF - apply per manufacturer's recommendations.
- 2.02 MIXES
- A. Dilute toxicant chemical to a percent solution specified by manufacturer.
- Part 3.00 Execution
- 3.01 DELIVERY
- A. Deliver materials in original unopened manufacturer's packaging with labels and seals identifying content.
- 3.02 INSPECTION
- A. Verify exposed soil surfaces are unfrozen, sufficiently dry to absorb toxicant, and ready to receive treatment. Beginning of application means acceptance of soil conditions.
- 3.03 APPLICATION
- A. Safety: 1. Apply toxicant in accord with recommended safety precautions for materials used. B. Labeling: 1. Immediately prior to installation of vapor barrier under slab-on-grade or finish grading outside foundation walls. Apply extra treatment to structure penetrations, pipe, ducts, and other soil penetrations. Apply as a coarse spray to ensure uniform distribution. 2. Bangor Limestone (Mississippi), and other formations of similar composition and origin occurring in central and northern Alabama and Georgia. 3. Slag: Slag shall be clean, tough and durable. It may be either air-cooled blast-furnace slag or phosphate slag. It shall be reasonably uniform in density and quality, and free from deleterious substances other than permitted above. It shall contain not more than 1.5 percent of sulfur. The dry-rodded weight shall be not less than 70 pounds per cubic foot. The loss, when the slag is subjected to the Los Angeles Abrasion Test, shall not exceed 45 percent.

END OF SECTION

SECTION 02507

PRIME AND TACK COATS

- 1.01 WORK INCLUDED
- A. The work specified in this Section consists of an application of bituminous material on previously prepared bases and on existing pavement surfaces in accordance with these specifications and in conformity with the lines, grades, dimensions and notes shown on the Drawings.

Part 2.00 Products

- 2.01 MATERIALS
- A. Prime Coat: Unless otherwise indicated, the material used for the prime coat shall be cutback Asphalt Grade RC-70 or RC-250 and shall conform to the requirements specified in AASHTO Designation M-81. Unless otherwise indicated, the use of either RC-70 or RC-250 shall be at the Contractor's option. B. Tack Coat: The material used for the tack coat shall be emulsified asphalt, Grade RS-2 and shall conform to the requirements specified in AASHTO Designation M-140.
- 2.02 EQUIPMENT
- A. The pressure distributor used for placing the tack or prime coat shall be equipped with pneumatic tires having sufficient width of rubber in contact with the road surface to avoid breaking the bond or forming a rut in the surface. The distance between the centers of openings of the outside nozzles of the spray bar shall be equal to the width of the application required, within an allowable variation of 2 inches. The outside nozzle at each end of the spray bar shall have an area of opening of not less than 25 percent, nor more than 75 percent in excess of the other nozzles which shall have uniform openings. When the application covers less than the full width of the normal opening of the end nozzle at the junction line may remain the same as those of the interior nozzles.

Part 3.00 Execution

- 3.01 PREPARATION
- A. Before applying any bituminous material, all loose material, dust, dirt, and foreign material, which might prevent proper bond with the existing surface, shall be removed. Particular care shall be taken to clean the outer edges of the strip to be treated in order to ensure that the prime or tack coat will adhere. B. When the prime or tack coat is applied adjacent to curb and gutter, or other concrete surface (except where they are to be covered with a bituminous wearing course), such concrete surfaces shall be protected by heavy paper or other protective material while the prime or tack coat is being applied. Any bituminous material deposited on such concrete surfaces shall be removed immediately. C. The temperature of the prime material shall be such as to ensure uniform distribution. The material shall be applied with a pressure distributor as specified above. The amount to be applied shall be sufficient to coat the surface thoroughly and uniformly without any excess to form pools or to flow off the base. For limerock base, the rate of application shall not be less than 0.10 gallons per square yard and the percent by weight of the coarse aggregate passing the No. 4 sieve and retained on the No. 10 sieve shall be within the range specified in the table below. If the design rate of application shall be less than 0.15 gallons per square yard; for soil cement base, the rate of application shall not be less than 0.15 gallons per square yard. D. If the roadway is to be opened for use following the application of the prime material, a light uniform application of clean sand shall be applied and the sand cover shall be not less than 0.02 gallons and 0.08 gallons per square yard. E. Roll and water seeded areas in a manner that will encourage sprouting of seeds and growing of grass. Reseed areas which exhibit unsatisfactory growth. Backfill and seed eroded areas.
- 3.02 WEATHER LIMITATIONS
- A. No bituminous material shall be applied when the air temperature is less than 50°F in the shade, or when the weather conditions or the condition of the existing surface is unsuitable for the application. B. The material shall be applied while rain is falling or when there is water on the surface to be covered.
- 3.03 APPLICATION OF PRIME COAT
- A. The base shall be prepared: the full width of surface shall be swept with a power broom immediately with hand brooms and mechanical blowers prior to the application of the prime coat. Care shall be taken to remove all loose dust, dirt and foreign material. If, after sweeping, the surface shall be lightly sprinkled with water immediately in advance of the prime coat. The prime coat shall be applied to the full width of the base. B. The temperature of the prime material shall be such as to ensure uniform distribution. The material shall be applied with a pressure distributor as specified above. The amount to be applied shall be sufficient to coat the surface thoroughly and uniformly without any excess to form pools or to flow off the base. For limerock base, the rate of application shall not be less than 0.10 gallons per square yard and the percent by weight of the coarse aggregate passing the No. 4 sieve and retained on the No. 10 sieve shall be within the range specified in the table below. If the design rate of application shall be less than 0.15 gallons per square yard; for soil cement base, the rate of application shall not be less than 0.15 gallons per square yard. C. If the roadway is to be opened for use following the application of the prime material, a light uniform application of clean sand shall be applied and the sand cover shall be not less than 0.02 gallons and 0.08 gallons per square yard. D. If the roadway is to be opened for use following the application of the prime material, a light uniform application of clean sand shall be applied and the sand cover shall be not less than 0.02 gallons and 0.08 gallons per square yard. E. Roll and water seeded areas in a manner that will encourage sprouting of seeds and growing of grass. Reseed areas which exhibit unsatisfactory growth. Backfill and seed eroded areas.

- 3.04 APPLICATION OF TACK COAT
- A. In general, a tack coat will not be used on prime bases except in areas where the base is to be resurfaced, or where the base is to be cleaned or where the prime has cured and lost all of its bonding effect. B. No tack coat shall be applied until the prime base or leveling course has formed. C. The tack coat shall be applied with a pressure distributor as specified above. It shall be heated to a suitable consistency and applied in a uniform manner. The rate of application shall be 0.02 gallons per square yard. D. The tack coat shall be applied sufficiently in advance of the laying of the wearing surface to permit drying, but shall not be applied so far in advance or over such an area as to lose its adhesiveness as a result of being covered with dust or other foreign material. Suitable precautions shall be taken by the Contractor to protect the surface while the tack coat is drying and until the wearing surface is applied.

END OF SECTION

SECTION 02512

ASPHALTIC CONCRETE PAVING

- 1.01 SCOPE OF WORK
- A. The work specified in this Section consists of the construction of asphaltic concrete surface courses composed of a mixture of aggregates, mineral filler and asphalt cement, in accordance with the tolerances and tolerances and tolerances of State Department of Transportation Standard Specifications for Road and Bridge Construction (latest edition) and the tolerances and tolerances of State Department of Transportation Standard Specifications for Road and Bridge Construction (latest edition) except that the use of recycled or milled asphalt will not be permitted. In case of conflict between these specifications and State Department of Transportation Standard Specifications for Road and Bridge Construction (latest edition), the more stringent specification shall govern.
- 1.02 RELATED WORK
- A. Section 02210 - Site Earthwork
B. Section 02332 - Seeding and Mulching
C. Section 02340 - Stabilized Subgrade
- 1.03 QUALITY ASSURANCE
- A. Laboratory analysis by a Certified Testing Laboratory on all materials shall be completed and the materials accepted by the Engineer prior to placement. B. The Contractor shall submit manufacturer's Certificate of Compliance for approval of paving materials. C. The Contractor shall submit a statement of source of materials and design mix formula for approval prior to processing at the asphalt plant.

Part 2.00 Products

- 2.01 MATERIALS
- A. Bituminous Material: Asphalt cement, Viscosity Grade AC-20, shall conform to the requirements of State Standard Specifications for Road and Bridge Construction (latest edition). B. Coarse Aggregate: 1. The coarse aggregate shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. C. Fine Aggregate: 1. The fine aggregate shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. D. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. E. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. F. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. G. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. H. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. I. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. J. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. K. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. L. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. M. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. N. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. O. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. P. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. Q. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. R. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. S. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. T. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. U. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. V. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. W. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. X. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. Y. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating. Z. Filling: 1. The filling shall be composed of clean, durable limerock. When subjected to the Los Angeles Abrasion Test, (ASTM 1-96), the loss shall not exceed 45 percent. 2. Extraneous materials, such as soft, friable, or highly absorbent material, from disintegrated pieces, soil, alkali, vegetable matter and adherent coating.

C. Fine Aggregate

1. The aggregate concrete shall consist of natural sand, stone screenings, slag screenings or a combination thereof, composed of clean, tough, angular grains, free from foreign matter, and shall be the feeding or slag screenings shall be produced from materials complying with the abrasion requirements for coarse aggregate specified above.

2. Any screenings used in the combination of aggregate shall contain not more than 15 percent of material passing the No.200 sieve and shall be washed if necessary to meet this requirement.

3. The natural sand and portion of the fine aggregate other than screenings shall be siliceous containing not more than 10 percent of material passing the No. 200 sieve.

4. The fine aggregate, when tested by means of laboratory sieves, shall meet the following requirements:

Passing Sieve	Retained On Sieve	Percent
No. 4	No. 10	90-100
No. 10	No. 20	10-20
No. 20	No. 40	10-20
No. 40	No. 60	10-20
No. 60	No. 80	10-20
No. 80	No. 100	10-20
No. 100	No. 200	8-40
No. 200		0-10

5. Fine aggregate containing more than 1.00 percent of phosphate shall not be used.
- D. Mineral Filler: 1. Mineral filler shall consist of limerock dust, Portland cement, slag dust, hydrated lime or other inert mineral material approved by the Engineer and conform to the following gradation requirements:
- | Total Passing No. 30 Sieve | Percent |
|-----------------------------|-------------------|
| 100 Percent | 100 Percent |
| Total Passing No. 80 Sieve | 95 Percent (Min.) |
| Total Passing No. 200 Sieve | 65 Percent (Min.) |
2. The mineral filler shall be thoroughly dry and free from lumps consisting of clumps of fine particles. Ground phosphate will not be allowed as a mineral filler.

- 2.02 GENERAL COMPOS-ON OF MIXTURE
- A. The bituminous mixture shall be composed of a combination of aggregate (coarse, fine, or mixtures thereof), mineral filler, if required, and bituminous material. The several aggregate fractions shall be sized, uniformly graded and combined in such proportions that the resulting mixture will meet the grading and physical properties of the approved job mix formula. B. In all cases, the job mix formula shall be within the design ranges specified in the following table:

Gradation Design Range

Sieve Size	Type S-1	Type S-2	Type S-3
12 inch	100	100	100
3/4 inch	100	100	100
3/8 inch	75-93	88-100	88-100
No. 4	47-73	60-90	60-90
No. 10	10-20	10-20	10-20
No. 20	10-20	10-20	10-20
No. 40	10-20	10-20	10-20
No. 60	10-20	10-20	10-20
No. 80	10-20	10-20	10-20
No. 100	10-20	10-20	10-20
No. 200	10-20	10-20	10-20

C. Asphalt cement (Bitumen) shall consist of 4-1/2 to 9 percent by weight of the total mix as determined by job mix formula. For highly absorptive aggregates, the upper limits may be raised.

D. When filling and finishing is permitted for small and irregular areas, such as turnouts, crossovers, acceleration and deceleration lanes, etc., the portion of the Grade No. 16 coarse aggregate retained on a No. 4 sieve may be omitted from this mixture and the percent by weight of the coarse aggregate passing the No. 4 sieve and retained on the No. 10 sieve shall be within the range specified in the table below. If the design rate of application shall be less than 0.15 gallons per square yard; for soil cement base, the rate of application shall not be less than 0.15 gallons per square yard.

E. If the roadway is to be opened for use following the application of the prime material, a light uniform application of clean sand shall be applied and the sand cover shall be not less than 0.02 gallons and 0.08 gallons per square yard.

F. Proportions of Silica Sand and Local Materials: Not more than 25 percent by weight of the total aggregate used shall be silica sand or local materials. The silica sand shall conform to all requirements of specifications and the local materials shall meet the requirements of state DOT Standard Specifications for Road and Bridge Construction (latest edition).

- 2.03 FORMULA FOR JOB MIX
- A. General: The following limits prescribed above are master ranges of tolerances to govern mixtures made from any materials meeting the specifications, and they are maximum and minimum for all cases. A closer tolerance shall be required for any mixtures required for the specific project in accordance with the job mix formula. B. No work shall be started until the Engineer has approved the job mix formula. C. Materials that will be used to make up the approved job mix shall be obtained in sufficient quantities to meet the demands for the entire project in progress. If this is not practicable, care must be taken to ensure adequate quality control of the materials used in each job mix. Should the quantity of supply of the materials used in the job mix be insufficient, the materials from the source vary appreciably from the materials used in the job mix formula, the job mix formula must be altered accordingly. D. Combined dry aggregate gradation of the hot bins shall be within the following limits of the job mix formula:

Sieve Size	Tolerance Percent		
	One-Two	Two-Three	Three-Four
12 inch	9.0	7.5	6.0
3/4 inch	9.0	7.5	6.0
3/8 inch	9.0	7.5	6.0
No. 4	9.0	7.5	6.0
No. 10	9.0	7.5	6.0
No. 20	9.0	7.5	6.0
No. 40	9.0	7.5	6.0
No. 60	9.0	7.5	6.0
No. 80	9.0	7.5	6.0
No. 100	9.0	7.5	6.0
No. 200	9.0	7.5	6.0

- E. After the job mix formula is established, each mix for the project shall meet the approved formula within the following tolerances:
- | Characteristic | Tolerance |
|------------------------------|-----------|
| Asphalt Content (Extraction) | ± 0.70% |
| Asphalt Content (Proctor) | ± 0.30% |
| Passing No. 10 Sieve | ± 5.00% |
| Passing No. 200 Sieve | ± 3.00% |
- F. In no case shall a job mix that is within the tolerances stated above be such that it falls out of the master range.
- G. Samples of the mixture in use will be taken as many times daily as is necessary in the opinion of the Engineer. The mixtures shall be maintained uniformly throughout the project within the above tolerances.
- H. Job materials found to have a deficiency in the percentage of bituminous material less than is indicated in the formula prescribed above, will be rejected or adjusted to conform to the formula. If the deficiency is not corrected under the terms of the formula, where job materials otherwise meeting specifications are found, on account of highly absorptive or other special characteristics, to produce an acceptable balanced mix, the bituminous material content is increased over the amount specified, the mixture may be accepted provided that the job mix shall be adjusted to require the use of such additional bituminous material content.
- I. The asphaltic content shall be such for the material used that when the mixture is tested in accordance with ASTM Designation D 1559, the stability shall be at a maximum with an optimum asphalt cement content. Physical properties of the mix shall be as shown in the following table:

Vol. Type	Minimum Marshall Stability	Minimum (ODI) (%)	Maximum VMA (%)	Maximum Air Voids (%)
S-1	1500	8.14	14	3.5
S-2	1000	8.14	15	3.7
S-3	1000	8.14	14	3.5

Part 3.00 Execution

- 3.01 PREPARATION OF ASPHALTIC CEMENT
- A. The asphalt cement shall be delivered to the asphalt plant at a temperature not to exceed 350°F and shall be maintained at a temperature not above 350°F in advance of mixing operations. Heating within these limits shall be constant and wide fluctuations of temperature during a day's production will not be permitted.
- 3.02 PREPARATION OF AGGREGATES
- A. Stockpiling coarse aggregate shall be done in such a manner so the aggregate will not segregate. B. All aggregates to be blended or proportioned shall be placed in separate bins at the cold hopper and proportioned by means of calibrated gates or other approved devices. When two or more aggregates are blended, the use of two

b. Wire ties will not be permitted. All forms shall be so constructed that they can be removed without hammering or prying against the concrete. Unless otherwise indicated, suitable moldings shall be placed to level or round exposed edges at expansion joints or at any other corners that are to remain. Beams below grade shall have forms at both sides.

Part 3.00 Execution

3.01 PREPARATION

A. Concrete Mixing:
1. Equipment: The concrete shall be ready-mixed and the equipment shall conform to the applicable requirements of ASTM Designation C-94.
2. Measurement: Equipment necessary to positively determine and control the actual amounts of all materials entering the concrete shall be provided by the Contractor or the concrete manufacturer. All materials shall be measured by weight, except that water may be measured by volume. A bag of cement weighs 94 pounds.

3.02 INSTALLATION

A. Forms:
1. Construction:
a. Forms shall be built true to line and grade, and shall be mortar tight and sufficiently rigid to prevent displacement or sagging between supports. The Contractor shall give particular attention to the adequacy of supports and shoring. The surfaces of forms used or permanently exposed surfaces shall be smooth and free from irregularities, dents, sags, or holes. Forms or surfaces to receive stucco finish shall be suitable for its application. Bolts and rods used for internal ties shall be so arranged that, when the forms are removed, all metal is at least 1 - 1/2 inch from any concrete surface. Form ties shall be removed immediately after removal of forms, and holes shall be thoroughly plugged with grout within 24 hours after form removal and kept damp for 4 days to prevent shrinking.
b. Wire ties will not be permitted. All forms shall be so constructed that they can be removed without hammering or prying against the concrete. Unless otherwise indicated, suitable moldings shall be placed to level or round exposed edges at expansion joints or at any other corners that are to remain. Beams below grade shall have forms at both sides.
2. Coating: Prior to the placing of steel reinforcement or concrete, forms for exposed surfaces shall be coated with a non-staining paraffin base oil or mineral oil. Forms for unexposed surfaces may be thoroughly wetted in lieu of oiling, immediately before the placing of concrete.
3. Removal: Forms and/or form supports shall not be removed from any concrete until it has obtained sufficient strength to support itself and any live loads it may be subjected to.

B. Reinforcing Steel:
When placed in the forms, reinforcement shall be clean and free of all rust, scale, dust, dirt, paint, oil or other foreign material and shall be accurately and securely positioned in the forms as shown on the Drawings before the placing of concrete. Reinforcing steel shall be wired or otherwise fastened at intersections and shall be supported by concrete or metal supports, spacers or hangers. Bar supports, where adjacent to the ground, shall be set on precast concrete pads compressed into the reinforcing steel at intersections by welding methods.
1. Splicing of reinforcement shall be held to a minimum and shall be placed at points of minimum stress. Bars shall be lapped splices a minimum of 36 bar diameters unless otherwise shown on the Drawings or directed by the Engineer, and shall be rigidly wired or clamped.
2. Wire fabric shall be straightened before placing and shall overlap one full space of mesh at ends and edges and shall be securely fastened. Fabric shall be supported so as to occupy its proper location in the concrete as shown on the Drawings. Fabric shall not cross any expansion joints.

C. Embedded Items:
In addition to steel reinforcement, pipes, inserts and other metal objects as shown, specified or ordered shall be built into, set in, or attached to, the concrete. All necessary precautions shall be taken to prevent these objects from being displaced, broken or deformed. Before concrete is placed, care shall be taken to determine that all embedded parts are firmly and securely fastened in place as indicated. They shall be thoroughly clean and free from paint or other coating, rust, scale, oil, or any foreign matter. No wood shall be embedded in concrete. The concrete shall be packed tightly around pipes and other metal work to prevent leakage and to secure perfect adhesion. Drains shall be adequately protected from intrusion of concrete.

D. Concrete:
1. General: Reinforcement shall be secured in position, inspected and approved before placing concrete. Runways for transporting concrete shall not rest on reinforcing steel. Concrete not placed within 90 minutes from the time mixing is started will be rejected and shall be removed from the job by the Contractor. Concrete shall be deposited as nearly as practicable in final position. Concrete shall not be allowed to drop freely more than six feet. All concrete shall be placed in daylight (excepting seal concrete) shall be placed in the dry unless otherwise authorized by the Engineer.
2. Slab Placed on Subgrade: Slab concrete placed on earth or fill subgrade shall be separated from direct contact with the subgrade by 6 mil polyethylene film or other approved material, unless noted otherwise on structural drawings. Sidelwalks and walkways will not require a separation sheet. Polyethylene film shall be lapped 4 inches on sides and 12 inches on ends.

3. Compaction: Concrete shall be compacted by internal vibrating equipment, supplemented by hand rodding and tamping as required. Vibrators shall in no case be used to move the concrete laterally inside the forms. Internal vibrators shall be used to maintain a speed of at least 5000 impulses per minute when submerged in concrete. (At least one spare vibrator, in working condition, shall be maintained at the site during concrete placing operations.) Duration of vibration shall be limited to the time necessary to produce satisfactory consolidation without causing segregation. Vibrator shall be moved constantly and placed in each specific spot only once.
4. Bonding: Before depositing new concrete on or against concrete that has set, the surfaces of the set concrete shall be thoroughly cleaned so as to expose the coarse aggregate and be free of coatings, foreign matter and loose particles. The cleaned surfaces shall be dampened but not saturated, and then thoroughly covered with a coat of cement grout of similar proportions to the mortar in the concrete. The grout shall be as thick as possible on vertical surfaces and at least 1/8 inch thick on horizontal surfaces. The fresh concrete shall be placed before the grout has attained its initial set.

5. Protection: Rainwater shall not be allowed to increase the ratio of mixing water, nor to damage the surface finish. Concrete shall be protected from disfigurement, damage, vibration, internal fractures and construction overloads.

E. Curing:
1. All concrete, including gunite, shall be water cured by covering with a double thickness of clean burlap, cotton mats, or other approved material kept thoroughly saturated with water. The forms shall be kept wet until removed and upon removal, the curing specified herein shall be started immediately. Concrete shall be cured for a period of 7 days for normal Portland cement or 4 days for high early strength cement. Concrete poured in the dry shall not be submerged until it has attained sufficient strength to adequately sustain the stress involved, nor shall it be subjected to flowing water across its surface until it has cured 4 days. Curing of gunite shall be started as soon as possible without damaging surface and not later than 2 hours after placing.
2. In lieu of wet burlap or cotton mats as specified above, concrete slabs may be covered with wet sand and kept moist for the specified curing period. The initial curing period of not less than 24 hours shall consist of the wet burlap or cotton mat method, then the wet sand method may be utilized until the end of the curing period.

3. Concrete surfaces which will not be coated, painted, plastered, stuccoed, covered with tile or floor covering or requiring a bonding surface may be cured by means of a membrane curing compound in lieu of the wet cure method. The curing compound shall be applied immediately after a satisfactory surface finish has been completed or forms have been removed. The rate of application of membrane curing compound shall be at least one gallon to every 200 square feet of exposed surface to be cured. The membrane curing compound and impervious covering shall be continuous and without defects and shall retain the required moisture in the concrete. Membrane curing compound that becomes damaged by rain, foot traffic or other conditions within 5 days of application shall be reapplied.

F. Finishes:
1. As soon as forms can safely be removed, all irregular projections shall be suppressed off flush with the concrete surfaces by all voids produced by spacers or any honeycombing shall be pointed up with grout and troweled flush with the concrete surface immediately after removal of forms and water cured to prevent shrinkage. Honeycombing shall be cut out to expose a sound concrete surface prior to pointing. The use of mortar pointing or patching shall be confined to the repair of small defects in relatively green concrete. Where in the opinion of the Engineer substantial repairs are required, the defective concrete shall be cut out to sound concrete and repaired with gunite or the concrete shall be removed and reconstructed as directed.
2. Floor slabs shall be brought to a true and even finish by power or hand floating in a manner that will not bring excess fines to the surface. The consistency of the concrete shall be such that water does not accumulate at the surface. Unless otherwise shown on the Drawings, the surface shall be floated with a wood float and shall be steel troweled to a smooth finish. Troweling shall be the minimum to obtain a smooth, dense surface and shall not be done until the mortar has hardened sufficiently to prevent excess fine material from being worked into the surface. If so directed, the surface shall be brushed lightly with a push broom so as to produce a non-slip surface.

3. Concrete surfaces that are not exposed in the completed work will require no special finish other than such pointing up and rubbing as is necessary to leave them smooth and impervious.

4. Other surfaces which will be exposed in the completed work shall be finished by being rubbed smooth and dense, without pits, irregularities, blow holes or bubbles.

G. Grout:
1. Grout for pointing and patching shall consist of cement and fine aggregate mixed in the proportions used in the concrete and a minimum amount of water to produce a workable grout.
2. Material for grouting manholes or drainage inlet openings, column base plates, anchor bolts, reinforcing bars, pipe sleeves and pump base plates shall be of non-shrink type and shall be mixed and placed as recommended by the manufacturer. Machinery set on grout pads shall not be operated until the grout has cured for at least 24 hours.

3.03 FIELD QUALITY CONTROL

A. General: The quality of the concrete as to conformance to the specifications is the entire responsibility of the Contractor until it is accepted in place in the structure and verified by the final cylinder tests made by the laboratory. Arrangements for field testing shall be made by the Contractor with the laboratory as selected by the Owner.

B. Compressive Tests: Standard laboratory compressive test cylinders will be obtained by the laboratory when concrete is discharged from the mixer at the site of the work. A set of 6 cylinders will be obtained for each 60 cubic yards or fraction thereof placed each day, for each type of concrete. The cylinders will be cured under laboratory condition and will be tested in two groups of three at 7 and 28 days of age, respectively.

C. Slump Tests: The laboratory of the Owner or their representative will make slump tests of Class A and Class B concrete as it is discharged from the mixer at the site of the work. Slump tests may be made on any batch and failure to meet specified slump requirements will be sufficient cause for rejection of that batch.

D. Reports: Proper reports of all tests performed by the laboratory will be prepared by the laboratory and submitted promptly to the Engineer and Owner. Such reports shall be properly labeled so as to identify the portions of the project into which the materials have been placed.

END OF SECTION

SECTION 03100

CONCRETE FORMWORK

Part 1.00 General

1.01 SCOPE OF WORK

A. Furnish labor, materials, services, equipment and appliances required for concrete forms, as shown on the Drawings and specified herein.

1.02 REFERENCE STANDARDS

A. Material Standards
American Society for Testing Materials (ASTM)
B. Concrete Standards
American Concrete Institute (ACI)

Part 2.00 Products

2.01 MANUFACTURER

A. The Drawings were prepared and this Specification written on the basis of using the products of specific manufacturers. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

2.02 FORM MATERIALS

A. Wood:
No. 2, or better, southern pine dressed lumber, white pine or Douglas fir, non-stress grades.
B. Plywood:
SPFA Plyform, Exterior B-B, edge sealed.
C. Plastic Fiber:
Special forms of molded fiber, if required.

D. Corrugated:
Beam void forms "VOIDCO" or equal, as required under pier supported grade beams.

E. Metal:
Commercial standard, or as noted on drawings.

2.03 FORM ACCESSORIES

A. Gatebolts: Superior or equal, catalog items selected for minimum 350 psf form loadings.

2.04 FORM OIL

A. Non-staining mineral oil of viscosity 250/100 F.

Part 3.00 Execution

3.01 FORM CONSTRUCTION

A. General:
Design, construct and maintain forms so as to insure that after removal, finished concrete members will have true surfaces, be free of waves or bulges, and conform accurately to indicated shapes, dimensions, lines and positions of concrete members shown. Place, align and fit forms in successive units to ensure smooth continuous completed surfaces free from form marks and irregularities. Provide temporary openings in forms as needed to facilitate cleanings and inspection. Forms shall be readily removable without impact, shock or damage to concrete. Clean form surfaces before each use.

B. Deflection and Leakage:
Space walers, ties, bracing, etc. to prevent form deflection. Construct form joints sufficiently tight to prevent leakage of grout and cement paste during placing.

C. Exposed Surfaces:
Give special care to formwork, ties, bracing, etc. for retaining walls or other surfaces to be left exposed to permanent view. Waves, bulges, form marks, staining, joint marks or irregularities will not be acceptable.

3.02 CURING CONCRETE WITHIN FORMS

A. If surfaces are to be cured within forms, accomplish by keeping forms continuously wet. If forms are removed before end of curing period, continue curing as specified in CAST-IN-PLACE CONCRETE.

3.03 REMOVAL OF FORMS

A. Timing:
Remove forms after concrete has adequately hardened; not earlier than two days after concrete is placed.

B. Method:
Remove forms as a hand operation, take care to avoid damage to finished concrete and/or reinforcing passing through forms being removed.

3.04 CLEAN-UP

A. Upon completion of work of this Section, remove related debris from the premises.

END OF SECTION

SECTION 0300

CAST-IN-PLACE CONCRETE

Part 1.00 General

1.01 SCOPE OF WORK

A. Furnish labor, materials, services, equipment and appliances required for Cast-in-Place concrete work indicated on the Drawings and specified herein.

1.02 INTENT

A. Concrete shall be ready-mixed, or transit mixed, obtained from a plant; ASTM C94. Use job-mixed concrete only where and if authorized by Owner.

1.03 MILL TESTS

A. Submit certified copies of reports to Owner, if requested.

1.04 REFERENCE STANDARDS

A. American Society for Testing Materials (ASTM)
B. American Concrete Institute (ACI)
C. Federal Specifications (FS)

1.05 SUBMITTALS

A. Shop Drawings:
Submit drawings of reinforcement for acceptance prior to start of fabrication. List reinforcing and accessories quantities, sizes, bends, dimensions and notes required for fabrication and placement. Member marks on shop drawings; some as on structural drawings.

B. Testing Laboratory Reports:
Submit three copies to Owner.

Part 2.00 Products

2.01 MANUFACTURER

A. The Drawings were prepared and this Specification written on the basis of using the products of specific manufacturers. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

2.02 BASIC MATERIALS

A. Concrete:
1. Portland Cement
ASTM C150, Type I, unless noted otherwise on structural drawings.
2. Aggregates:
a. Fine Aggregates:
Washed sand; ASTM C33
b. Coarse Aggregates:
Crushed stone; ASTM C33
c. Members to 8 inches in section - Table II, Size 67.
d. All other concrete - Table II, Size 467.
3. Water
Local tap water.

B. Reinforced Steel:
1. Bars
ASTM A615, grade 60 or as shown on the Drawings.
2. Wire Fabric
ASTM A185.

2.03 MISCELLANEOUS MATERIALS

A. Accessories:
ACI - 315, galvanized, chairs, stools, spacers, etc.

B. Expansion Joints:
3/4 inch diameter plain steel bars with sawn ends and expansion caps.

C. Underlaid Vapor Barrier:
"Vapoquest", plastic sheeting, 6 mils thick, unless noted otherwise on structural drawings.

D. Floor Finishing:
1. Floor Leveling Compound Floor Leveling Compound
"DEX-O-TEX", Crossfield Products Corporation, Compton, California.

2. Floor Sealing Compound
"Master Seal SL", Master Builders, Cleveland, Ohio.

NOTE: Concrete floors to receive adhesively applied finishes or grouted finishes are not to be sealed.

E. Curing:
1. Curing Compound
Master Builders Technologies, "Masterkure 200W" water based wax emulsion concrete curing compound.

2. Plastic Sheet Curing Membrane
"VISOLEEN", 6 mils thick, with joint sealing tapes.

3. Burlap for Moist Curing
Standard grade burlap; FS CCC-C-467.

2.04 CONCRETE MIX DESIGN

A. Contractor employs and pays for services of an Owner-acceptable independent testing laboratory to determine concrete mix design based on compressive strengths of concrete shown on the structural Drawings. For design mix tests use aggregate, cement additive where specified, and water to be actually used in mixing concrete.

Part 3.00 Execution

3.01 DELIVERY AND TIME LIMITS

A. Concrete not placed within maximum time intervals, after adding mixing water, shall be rejected and removed.

Temperature, Mix or Air Maximum Time Interval
Up to 75 Degrees F 90 min
75 to 89 Degrees F 60 min
Over 90 Degrees F 45 min.

3.02 VAPOR BARRIER INSTALLATION

A. Install in accordance with manufacturer's instructions over prepared granular or non-expansive fill; seams lapped 6 inches minimum.

3.03 PLACING REINFORCING

A. General:
Place accurately and securely saddle-tie at intersection with 16 gage black, annealed wire. Support bars rigidly in place with chairs or spacers permitted by ACI-315, inches of concrete protection at reinforcement shall be in accordance with "ACI Building Code", unless shown otherwise on Drawings.

B. Shop Drawings and Splicing:
Place bars and wire fabric in accordance with accepted shop drawings and schedules on structural Drawings. Splice wire fabric by lapping both directions not less than distance between wires, and tying two transverse wires. Splice bars as shown on Drawings.

C. Inspection Before Covering:
Owner's acceptance of inserts and reinforcing in place is required before concrete is placed; do not proceed until inspection has been authorized and proceed. Prior to Owner's inspection, remove water, clean, tighten forms, close openings and coat forms with form oil.

3.04 PLACING CONCRETE

A. General:
Deposit concrete as nearly as practical to final position to avoid segregation due to re-handling or flowing. Deposit concrete at rate that it stays plastic, and flows readily into spaces between inserts and reinforcing and completely fills forms. Temperature of concrete at time of placing between 50 and 90 Degrees F.

B. Discharge and Laying:
Control concrete discharge so that concrete may be effectively placed in horizontal layers not more than 8 inches thick. Stacking or piling concrete in one place and then removing it any appreciable distance into position with hoses, rakes, shovels, and/or compactors is prohibited.

C. Tremies and Chutes:
Use tremies and chutes when placing concrete in piers, high narrow retaining walls, etc., so that concrete will not vertical drop more than 3 feet.

D. Compacting:
Compact each layer of concrete using SPUD-type mechanical internal vibrators, supplemented with hand tampers. Maintain vibrator speed of not less than 5000 cycles while submerged in concrete. Maintain at least one spare vibrator at hand.

E. Batching:
Before depositing fresh concrete on previously placed concrete which has partially or fully hardened, scrape surfaces of hardened concrete, hammer, or wire-brush while hosing with water under pressure, until large aggregate is exposed and scraping, laitance and dust removed. Tighten form wet concrete surfaces, slush with neat cement grout, and deposit new concrete before grout attains initial set. Slushing grout; not less than 1/8 inch in thickness.

F. Jointing:
Locate and make construction joints in accordance with the Drawings. Construction joints will not be permitted at other locations without Owner's acceptance.

G. Remove Balls:
Set anchor bolts, furnished by and/or for the work of other trades, in freshly placed concrete. Set bolts plumb and true and in accord with accepted shop drawings and the Drawings.

3.05 FINISHING CONCRETE

A. Smooth Finish Slabs:
1. Tamping
While placing concrete, tamp to force coarse aggregate away from surface. Scream with straight edges to bring surface to finish level required.

2. Floating
Wood float to true plane with no coarse aggregate showing while concrete is still green but sufficiently hard to bear a man's weight without imprint. Float level or slope to drains as required. Use sufficient pressure while floating to bring moisture to surface.

3. Troweling
Steel trowel not less than two passes. Begin with power trowel as soon as little or no cement sticks to blades. Do not dust with dry cement or aggregate to absorb moisture or to stiffen mix. Hand steel trowel third pass to remove slight imperfections and produce smooth impervious face. Continue hand troweling until ringing sound is heard as trowel burnishes surface.

4. Tolerance
Slabs to receive applied finishes, special finishes, or to be sealed shall be level with tolerance of 1/8 inch in 10 feet, when tested with 10 foot straight edge at 3 foot intervals in both directions.

B. Depressed Slabs:
Finish depressed slabs, if shown on the Drawings, to receive waterproofing, topping, fill or mortar beds for tile, etc., as for smooth finish slabs but only through wood floating.

C. Surfaces Other Than Slabs:
1. Exposed Vertical Surfaces
Fill bolt and tie rod holes with some mix as placed concrete, except without course aggregate. Fill holes passing through concrete members from inside face. Stone rub to uniform finish.

2. Patching and Repairs
Remove honeycomb voids, cracks, and irregularities. Where repair is required, cut back defects not less than 1/2 inch with square edges, brush out, drench with water and fill with same mix as placed concrete, except without course aggregate. When cut-outs have been filled, trowel surface smooth, remove excess grout. After set, grind slightly to uniform color and appearance using neat Portland Cement applied with a power grinder wheel.

3. Topping and Fills
Scream, float and finish same as slabs.

3.06 CURING CONCRETE

A. Requirements:
Cure concrete not less than 7 days by protecting it against moisture loss, rapid temperature change, mechanical injury, and injury from weather, rain, or flowing water. Contractor's choice:

1. Compound
Apply in accord with manufacturer's instructions. Protect compound-formed members on slabs with 1 inch of sand. Compound must be completely removed once concrete has achieved specified set. Remove per manufacturer's written instructions with a mechanical scrubber and water soluble stripper.

2. Plastic Sheet
Cover surface with membrane, edges lapped 4 inches or more and sealed with tape.

3. Moisture
Keep surfaces continuously wet or moist during curing period, by covering surfaces with wet sand, wet burlap, or moist curing mat.

4. Surface Within Forms
Keep forms continuously wet. If forms are removed before end of curing period, continue for full curing period as for unformed surfaces.

3.07 SEALING CONCRETE

A. Where shown on the Drawings, apply to slab in accord with manufacturer's instructions. Applying during later stages of construction.

3.08 TESTING

A. Independent Testing Laboratory:
Contractor employs and pays for services of an Owner-acceptable independent testing laboratory to perform concrete cylinder testing. Test cylinders shall be taken and cured by Contractor and tested by laboratory for each different class of concrete placed in any one day. Take cylinders in accord with ASTM C31, and cure and test in accord with ASTM C39. One set of three cylinders is required for each 50 cu yd of concrete or less, placed in any one day. Test one cylinder at seven days, one at 28 days, and hold one as a spare from each set of three.

B. Contractor Tests:
1. Slump Tests
Contractor take slump tests when cylinders are taken; maximum slump 5 inches and minimum slump 3 inches.

2. Air Entrainment
Air content by volume: 3 to 5 percent based on measurements made in concrete mixtures at point of discharge at job site at time slump tests are made. Air content by volume; ASTM C231.

C. Special Testing:
1. Owner may direct core tests; ASTM C42, or load tests; Section 202 of ACI 318 be made of portions of structure under provisions of Article 7 of the GENERAL CONDITIONS.

3.09 CLEANING CONCRETE

A. At completion of concrete work, clean surfaces exposed to view with water and fiber bristle brushes. Completely strip all curing compounds before installation of floor finishes.

3.10 CLEAN-UP

A. Upon completion of work of this Section, remove related debris from premises.

END OF SECTION

ARCHITECTS PROJECT #:
DCH22007

Kimley»Horn

445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
PH: (772) 794-4100

REGISTRY NO. 696
KHA PROJECT # 047916134

Issue Date: 02/15/23

REVISION INFORMATION

Restaurant #: 21K0037

CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

PROTOTYPE 18

HILLSBOROUGH CNTY FLORIDA

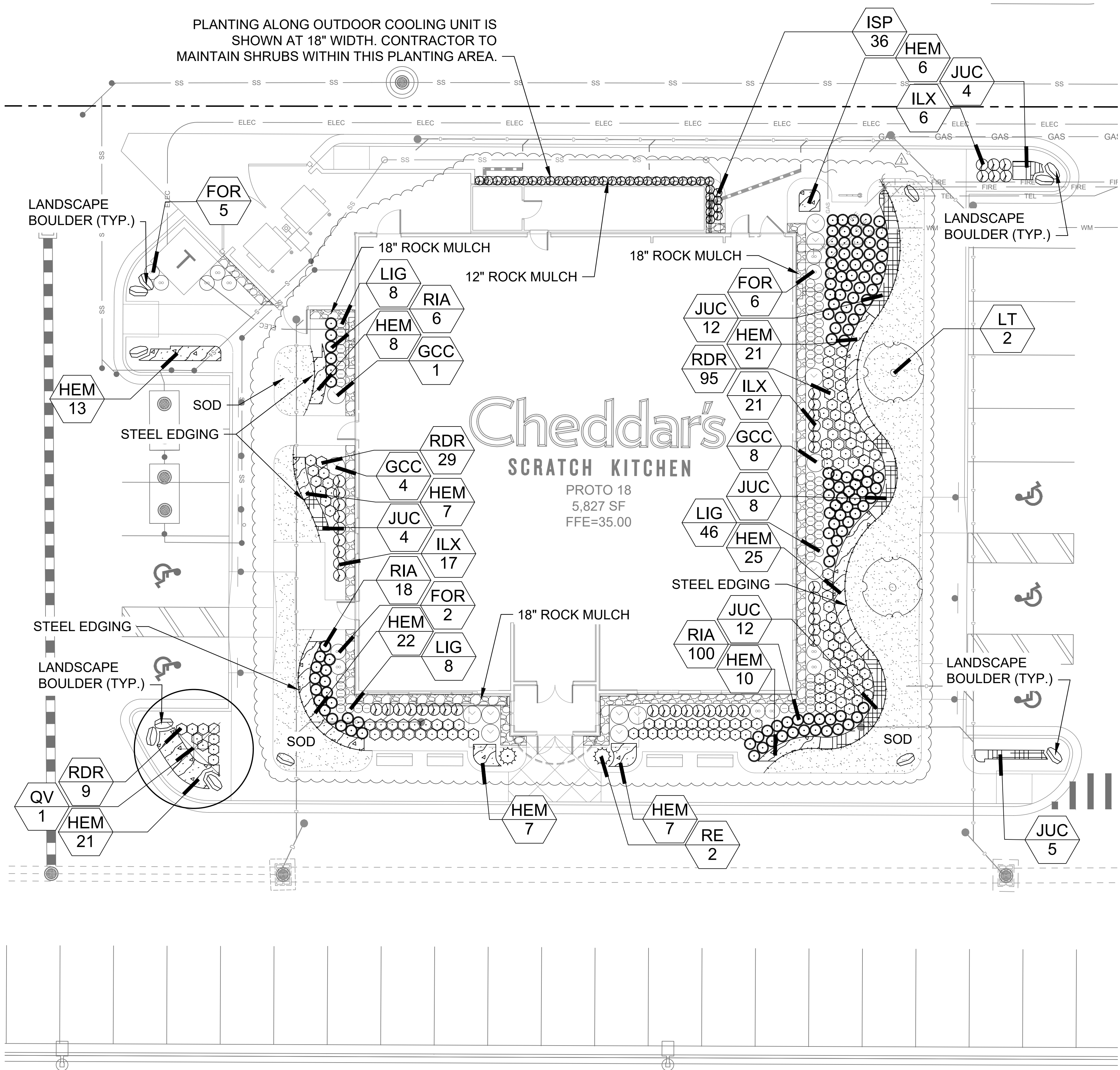
DRAWING

DARDEN CIVIL
SPECIFICATIONS

CS5

Drawing name: K:\FRLA\047916 - Darden\047916134 - Cheddars Riverview\DESIGN\01 Permit-Code\Plansheet\150-L1.1 LANDSCAPE PLANS.dwg May 08, 2023 1:59pm by: Liz Weeks

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PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SPECIFICATIONS	REMARKS
	QV	1	Quercus virginiana / Southern Live Oak	3" cal, 12'-14" ht	Full, Straight, Single Leader
UNDERSTORY TREES	CODE	QTY	BOTANICAL / COMMON NAME	SPECIFICATIONS	REMARKS
	LT	2	Lagerstroemia indica 'Tuscarora' / Tuscarora Crape Myrtle	15 gal	3, 1" cal. Multi trunk
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SPECIFICATIONS	REMARKS
	FOR	13	Forestiera Segregata / Florida Privet	30" ht, 24" spr, 30" oc	Full
	GCC	13	Gardenia augusta / Common Gardenia	24" ht, 24" spr, 36" oc	Full
	ILX	44	Ilex cornuta 'Dwarf Burford' / Dwarf Burford Holly	24" x 24", 24" o.c.	Full
	ISP	36	Ilex crenata 'Sky Pencil' / Sky Pencil Holly	30" ht, 18" spr, 18"oc	Full
	LIG	62	Ligustrum recurvifolium / Recurve Ligustrum	36" ht, 20" spr, 20" oc	Full
	RDR	133	Rhododendron 'Duc de Rohan' / Duc de Rohan Azalea	16" ht, 16" spr, 24" oc	Full
	RE	2	Russelia equisetiformis / Firecracker Plant	24" x 24", 36" o.c.	Full
	RIA	124	Rhaphiolepis indica 'Alba' / White Indian Hawthorn	18" ht, 24" spr, 24" oc	Full
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	SPECIFICATIONS	REMARKS
	HEM	147	Hemerocallis fulva / Daylily 'Wilson's yellow'	16" ht, 16" spr, 18" o.c.	1 gallon, 5 bib min.
	JUC	45	Juniperus conferta / Shore Juniper	4" x 10" x 24" o.c.	1 gal.
MISC	CODE	QTY	BOTANICAL/COMMON	SPECIFICATIONS	REMARKS
	SOD	TBD	Stenotaphrum secundatum 'Floratum'	Solid sod, rolled tight with sand filled joints, 100% weed, disease, and pest free	
	TBD		Rock Mulch	1-3" dia. in warm colors to match building. Rock to be at edge of building per plans	
	MULCH	TBD	Shredded Hardwood Mulch	3" depth	
	SE	TBD	Steel Edging	3/16" x 6"; black	
	BOULDER	12	Landscape Boulder	4-5'(L) 1-2'(W) 15-24"(H) Bury 3 of stone for natural look	

NOTE: PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN THE CASE OF A DISCREPANCY, THE DRAWING SHALL TAKE PRECEDENCE.

NOTE: PLANTS ARE SPECIFIED BY HEIGHT AND SPREAD. NOT CONTAINER SIZE. ALL PLANTINGS ARE EXPECTED TO MEET ALL SPECIFICATIONS PROVIDED.

LANDSCAPE REQUIREMENTS:

HILLSBOROUGH COUNTY

REQUIRED:

PROVIDED:

BUFFER:

8 FT BUFFER BETWEEN R/W & PARKING LOT

YES

YES

STREET TREES:

1 TREE PER 40 LF OF FRONTAGE

YES

YES, MET WITH EXISTING TREES

SCREENING:

SHRUBS, MOUNDS OR WALLS MUST BE CONSTRUCTED TO SCREEN PARKING FIELD & MUST BE A MINIMUM 3' TALL & SUPPLY 75% OPACITY WITHIN 2 YEARS.

YES

YES, MET WITH EXISTING LANDSCAPE

PARKING:

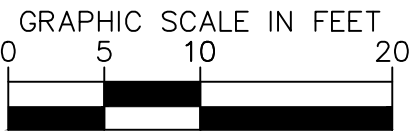
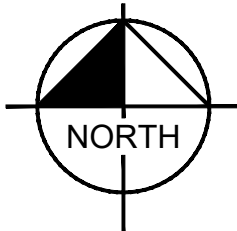
1 TREE PER EVERY 10 STALLS

YES

YES, MET WITH EXISTING TREES

PLANTING NOTES

- ALL PLANT MATERIAL SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES AND SHALL MEET ALL STANDARDS AS STATED IN THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE OWNER'S REPRESENTATIVE OF ANY CONDITION FOUND ON SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE PLANS.
- NO SUBSTITUTIONS IN PLANT MATERIALS SHALL BE MADE WITHOUT WRITTEN AUTHORIZATION FROM OWNER OR LANDSCAPE ARCHITECT. IN THE EVENT OF DISCREPANCIES BETWEEN THE DRAWING AND THE PLANT LIST, THE DRAWING SHALL PREVAIL.
- ALL PLANT MATERIAL IN SHOCK HAS TO BE REPLACED PRIOR TO A CO.
- LOCATE ALL UTILITIES PRIOR TO ANY DIGGING OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES INCURRED BY HIS WORK.
- ALL LANDSCAPED AREAS SHALL BE FULLY IRRIGATED WITH AN AUTOMATIC IRRIGATION SYSTEM.
- STAKING AND GUYING ALTERNATIVES: METHODS INDICATED IN DRAWING DETAILS ARE PREFERRED. CONTRACTOR MAY SUGGEST ALTERNATE METHODS, ASSUMING FULL RESPONSIBILITY FOR THEIR IMPLEMENTATION. CONTRACTOR SHALL REPLACE, PLANT, OR UPRIGHT ANY TREES BLOWN OVER OR DAMAGED DUE TO INADEQUATE STAKING AT NO ADDITIONAL COST TO THE OWNER.
- PLANTS MASSED IN BEDS SHALL BE ARRANGED USING TRIANGULAR SPACING.
- PROVIDE A METAL EDGE BETWEEN ALL PLANTING BEDS AND LAWN AREAS.
- EXISTING SOIL SHALL BE REASONABLY FREE OF STONE, LUMPS OF CLAY, ROOTS AND OTHER FOREIGN MATTER. ACIDITY TO BE BETWEEN 5.0 AND 7.0 pH.
- CONTRACTOR TO VERIFY SOIL ACIDITY AND AMEND AS NECESSARY TO BRING SOIL WITHIN RANGE.
- TREE PLANTING PITS SHALL BE BACKFILLED WITH TOP SOIL, AND CLEARED OF ALL ROCKS, LUMPS OF CLAY AND OTHER FOREIGN MATERIAL. PLACE 1" OF COMPOST AND 3" OF MULCH ON TOP OF ROOT BALL.
- PROVIDE GRASS SEEDING OR LAY SOD FOR PROPOSED LAWN AREAS TO ALL EDGES OF PAVEMENT AND/ OR LIMITS OF DISTURBANCE OUTSIDE R.O.W. OR PROPOSED LANDSCAPE EASEMENT.
- THE CONTRACTOR, SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPING FOR 90 DAYS AFTER FINAL ACCEPTANCE. ALL REQUIRED LANDSCAPING SHALL BE MAINTAINED IN A NEAT AND ORDERLY MANNER AT ALL TIMES. THE WORK SHALL INCLUDE, BUT NOT TO BE LIMITED TO, MOWING, EDGING, PRUNING, FERTILIZING, WATERING, WEEDING, AND OTHER SUCH ACTIVITIES COMMON TO THE MAINTENANCE OF LANDSCAPING. ALL PLANT MATERIALS SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION AS IS APPROPRIATE FOR THE SEASON OF THE YEAR. PLANT MATERIAL THAT DIES SHALL BE REPLACED WITH THE PLANT MATERIAL OF SIMILAR SIZE AND VARIETY.
- TREES OVERHANGING WALKS AND PARKING AREAS SHALL HAVE A CLEAR TRUNK HEIGHT OF 7 FEET FROM FINISH SURFACE GRADE.
- TREES PLANTED ON SLOPES SHALL BE PLACED IN PLANTING PITS OF ADEQUATE DEPTH SUCH THAT THE SOIL STAIN AT THE BASE OF THE TRUNK MATCHES THAT OF THE AVERAGE GRADE OR SLOPE.
- CONTRACTOR SHALL WARRANTY PLANT MATERIAL TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE. WARRANTY SHALL NOT INCLUDE DAMAGE FOR LOSS OF PLANT MATERIAL DUE TO NATURAL CAUSES, ACTS OF VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.
- EXISTING LANDSCAPE THAT IS DAMAGED, NOT SCHEDULED FOR REMOVAL, SHALL BE REPLACED TO EXISTING CONDITION.
- ALL EXISTING TREES TO BE PRUNED/ CLEANED-UP BY A CERTIFIED ARBORIST.
- ALL INVASIVE / EXOTIC SPECIES ONSITE TO BE REMOVED.
- QUANTITIES ARE APPROXIMATE AND ARE PROVIDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES AND PROVIDING SUFFICIENT QUANTITIES OF MATERIAL FOR COVERAGE BASED ON THE AREAS TO BE COVERED AND PLANT SPACING CALLED FOR.
- ALL DISTURBED AREAS ON SITE NOT CALLED TO BE SODDED, SHALL BE REESTABLISHED WITH SEED OR HYDROMULCH.
- ALL LANDSCAPE BED AREAS TO BE PREPARED USING LANDSCAPER'S BLEND BY SOIL BUILDING SOLUTIONS OR APPROVED EQUAL. CONTRACTOR TO MIX 4" LAYER OF SBS LANDSCAPER'S BLEND WITH NATIVE SOIL AND TILL TO A DEPTH OF 8". FINISHED GRADES OF PLANTING BEDS TO BE 2" BELOW FINISHED GRADE OF ADJACENT PAVING OR AS SHOWN ON GRADING PLAN.
- AN AUTOMATIC IRRIGATION SYSTEM SHALL BE PROVIDED TO MAINTAIN ALL LANDSCAPE AREAS. OVER SPRAY ON STREETS AND WALKS IS PROHIBITED.
- BEDS ADJACENT TO BUILDING PAD SHALL BE MULCHED WITH ROCK MULCH (APPROX. 2"-3" AGGREGATE) TO MATCH OR COMPLIMENT BUILDING VENEER (PROVIDE SAMPLE FOR ARCHITECT'S APPROVAL). ALL OTHER BED AREAS TO BE MULCHED WITH SHREDDED HARDWOOD MULCH AT 3" MIN. DEPTH. (FLORA MULCH OR APPROVED EQUAL.)
- NOTIFY LANDSCAPE ARCHITECT 772-794-4100 SHOULD AVAILABILITY ISSUE(S) ARISE.
- MINIMUM 5 FOOT TREE SETBACK FROM ALL UTILITIES & 7.5' CLEARANCE AROUND FIRE HYDRANTS & FDC'S FROM LANDSCAPING.

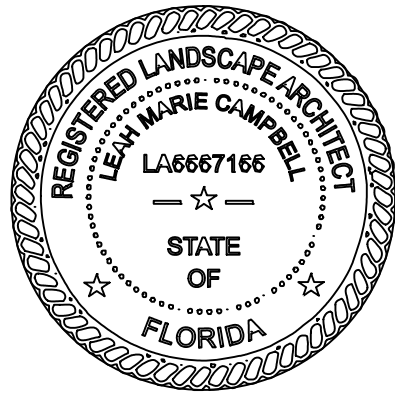


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DCH 22007

Kimley»Horn

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REGISTRY NO. 696
KHA PROJECT # 047916134



5/8/2023

Cheddar's
SCRATCH KITCHEN

Issue Date: 2/15/2023

REVISION INFORMATION

2 4/5/2023
COORDINATION COMMENTS

Restaurant #: 21K0037

CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

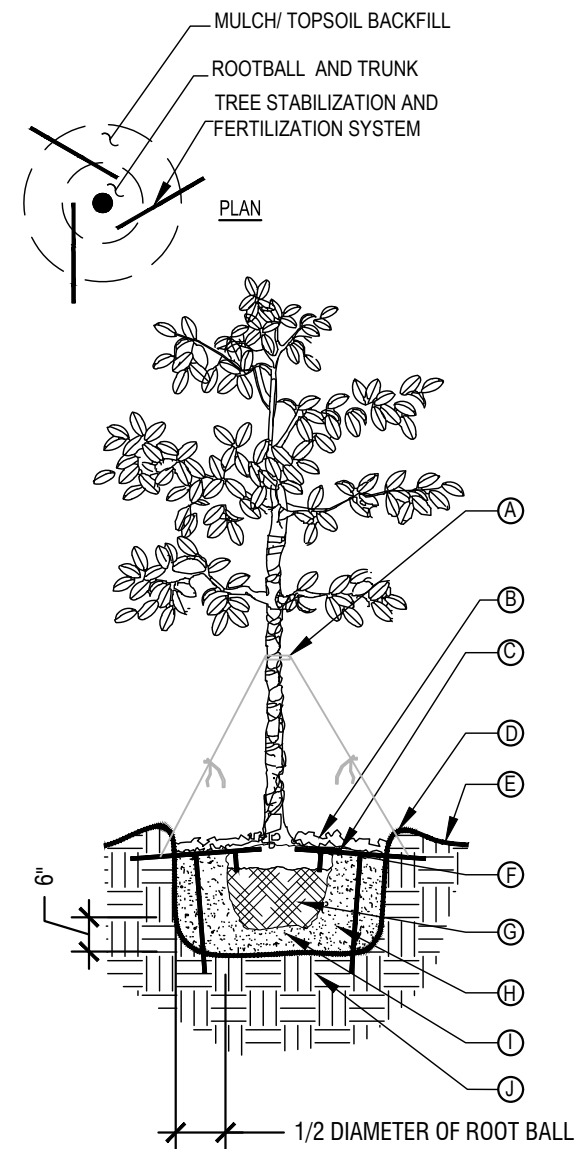
PROTOTYPE 18

HILLSBOROUGH CNTY FLORIDA

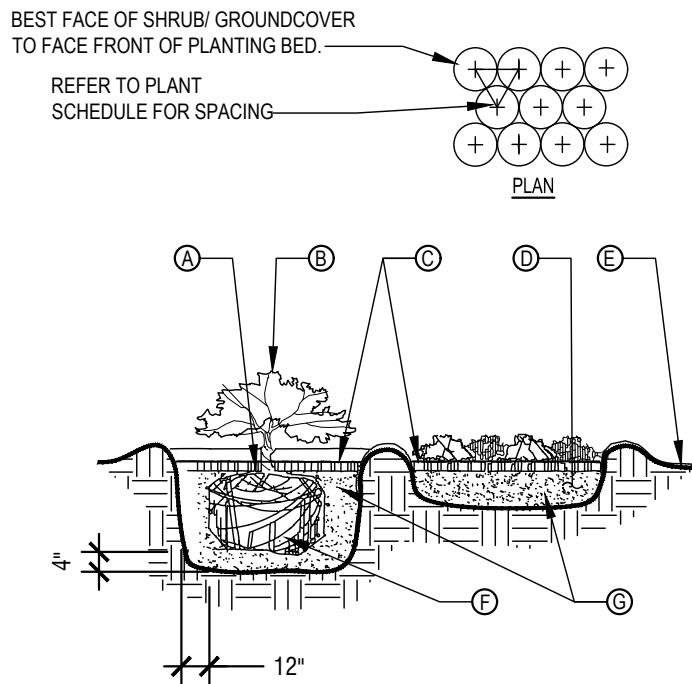
DRAWING

LANDSCAPE PLANS

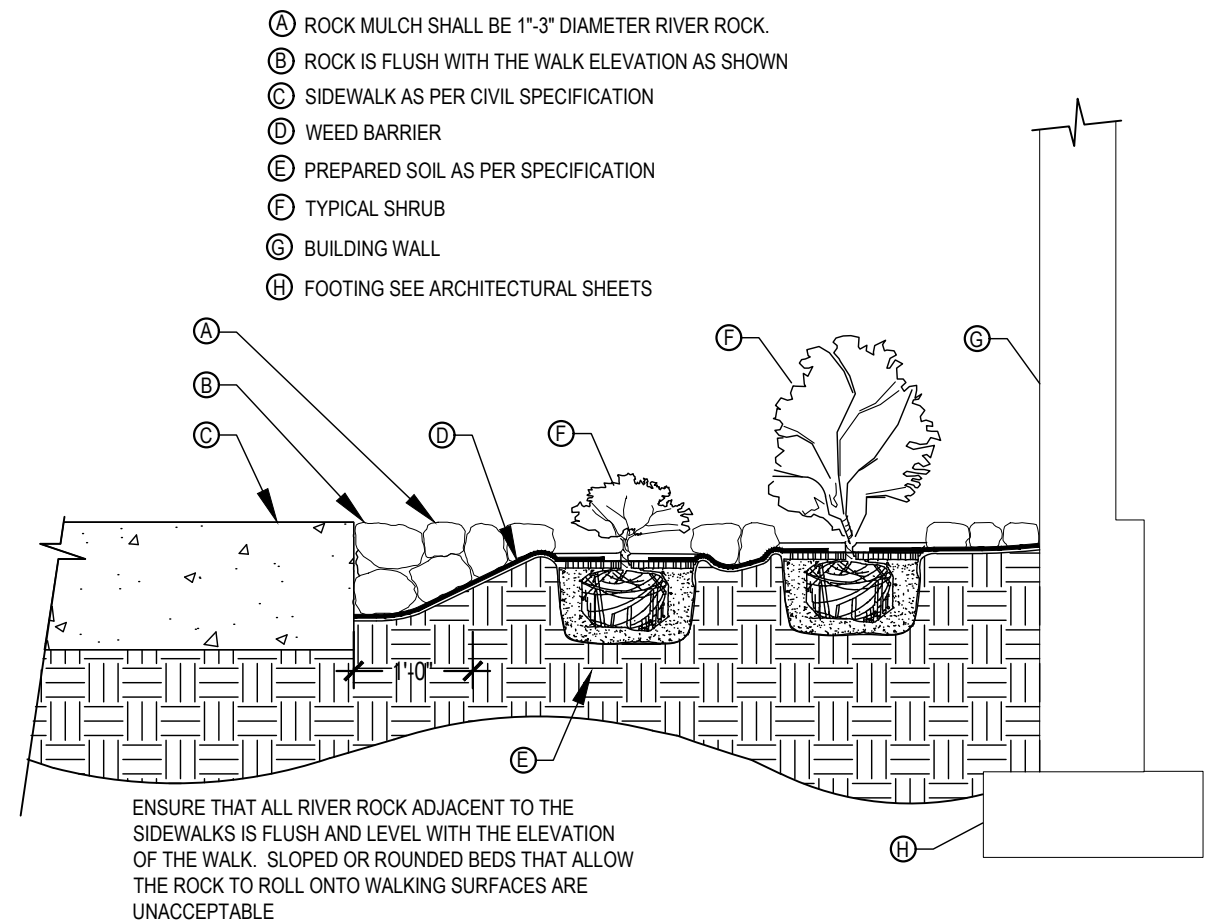
L1.1



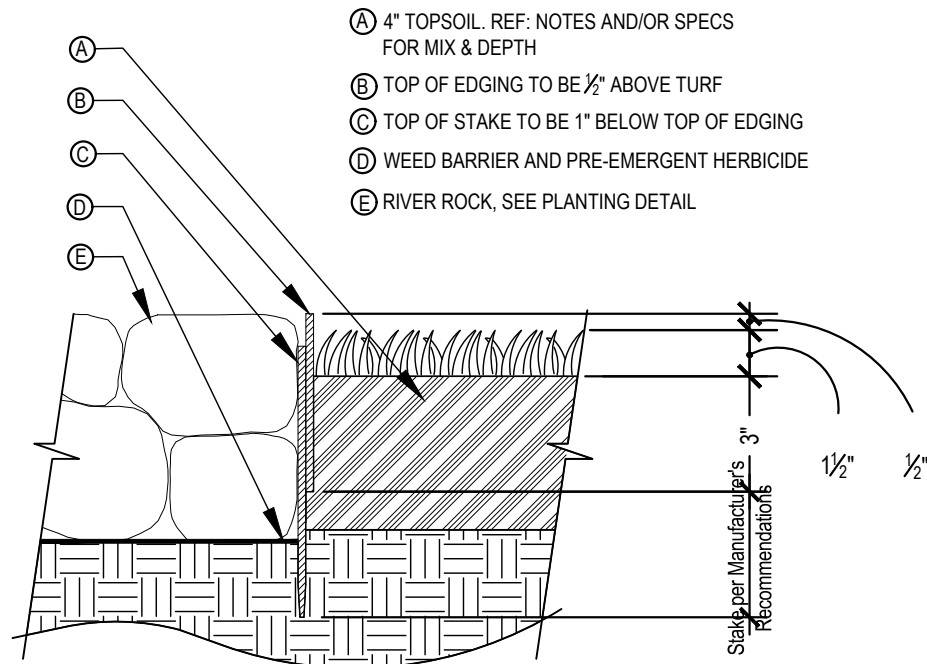
- 1 TREE WRAP
N.T.S.
- 1. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
 - 2. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH).
 - 3. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
 - 4. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT OR OWNER.
 - 5. BRANCHING HEIGHT TO ANSI STANDARDS.



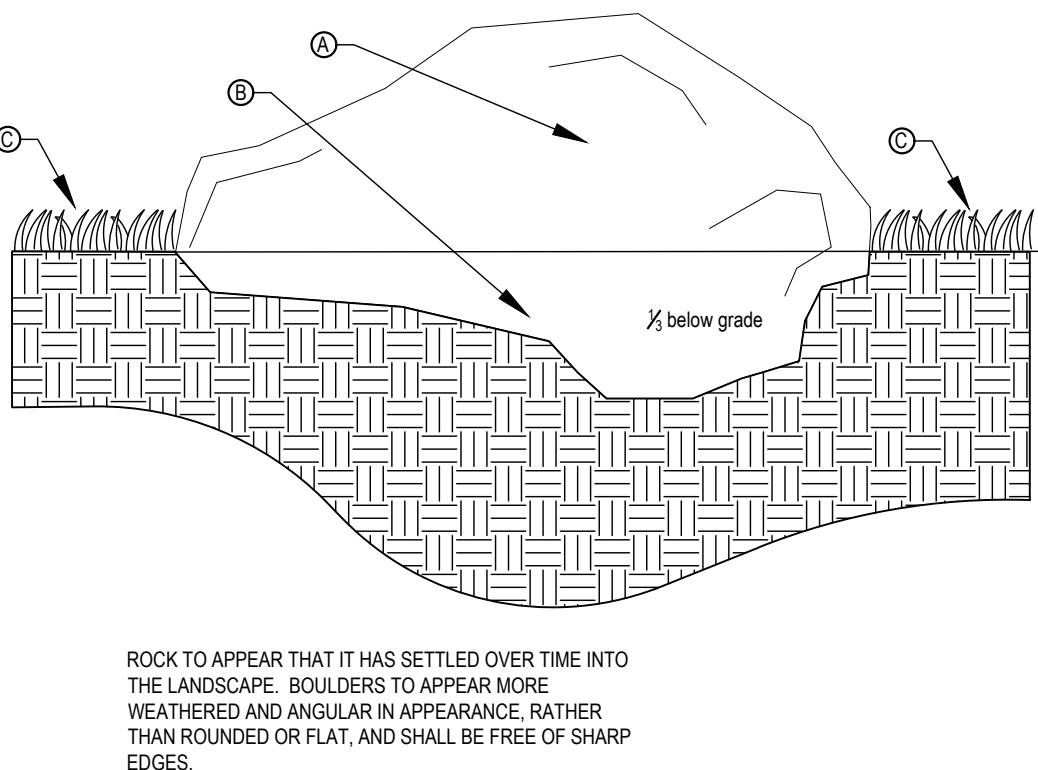
- 2 SHRUB AND GROUNDCOVER PLANTING
N.T.S.
- 1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1'-2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
 - 2. WHEN USED IN MASSES: PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASSHEIGHT.
 - 3. 4'-6" DIAMETER RIVER ROCK (INSIDE THE BUILDING PAD) OR 3" MINIMUM OF HARDWOOD BARK MULCH OR AS SPECIFIED (IN OUTLYING PLANT BEDS).
 - 4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
 - 5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
 - 6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND- COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
 - 7. SCARIFY ROOTBALL SIDES AND BOTTOM.



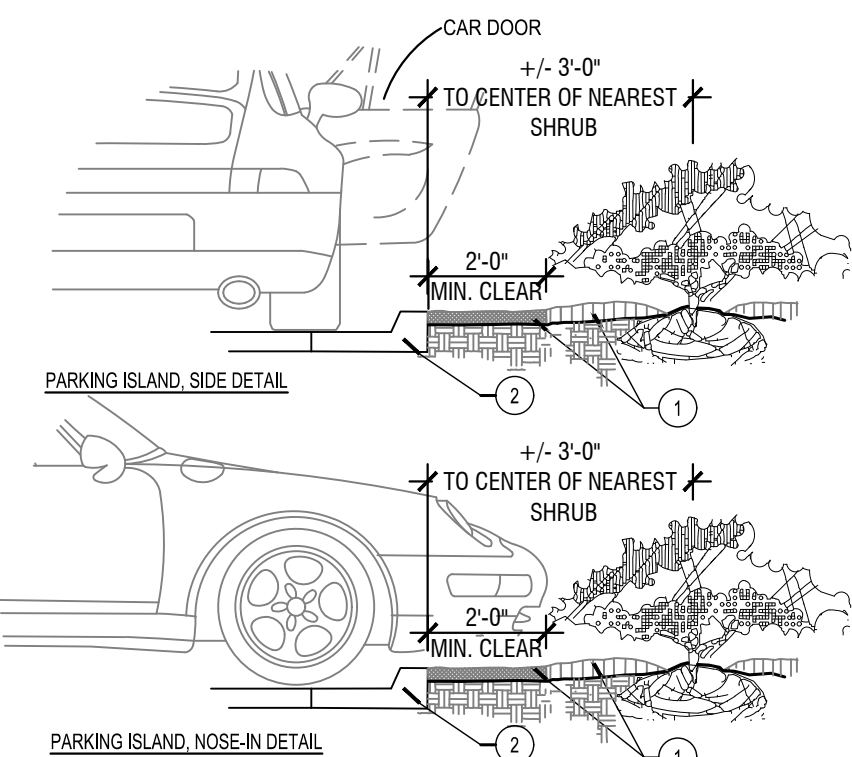
3 ROCK MULCH INSTALLATION
N.T.S.



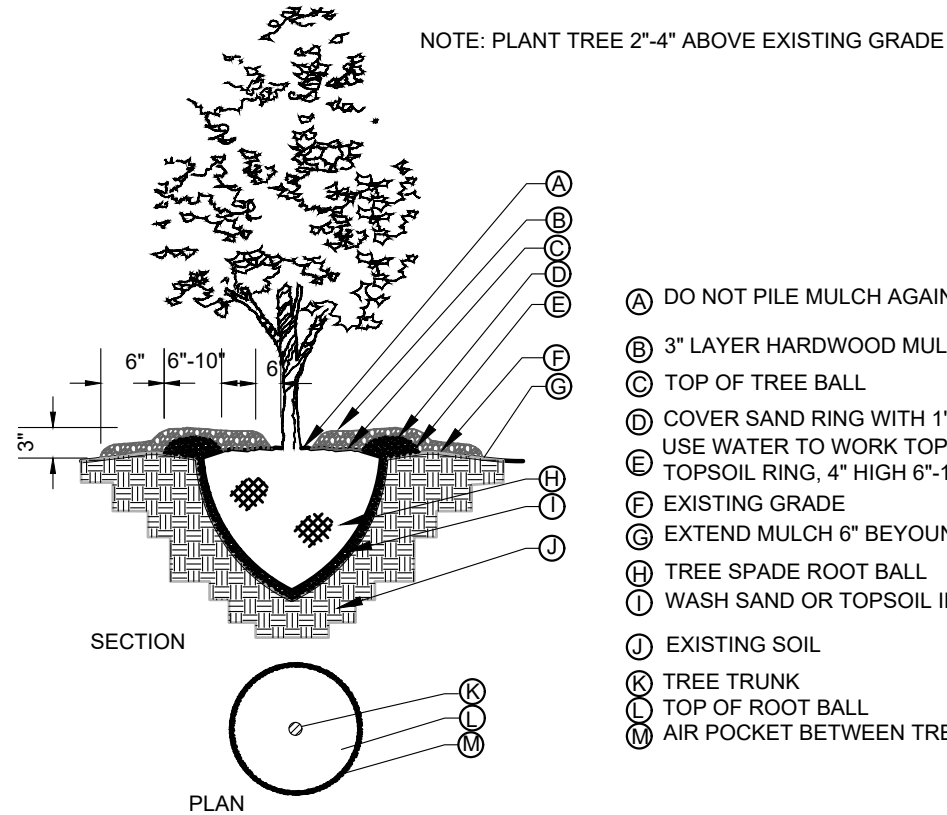
4 METAL EDGING
N.T.S.



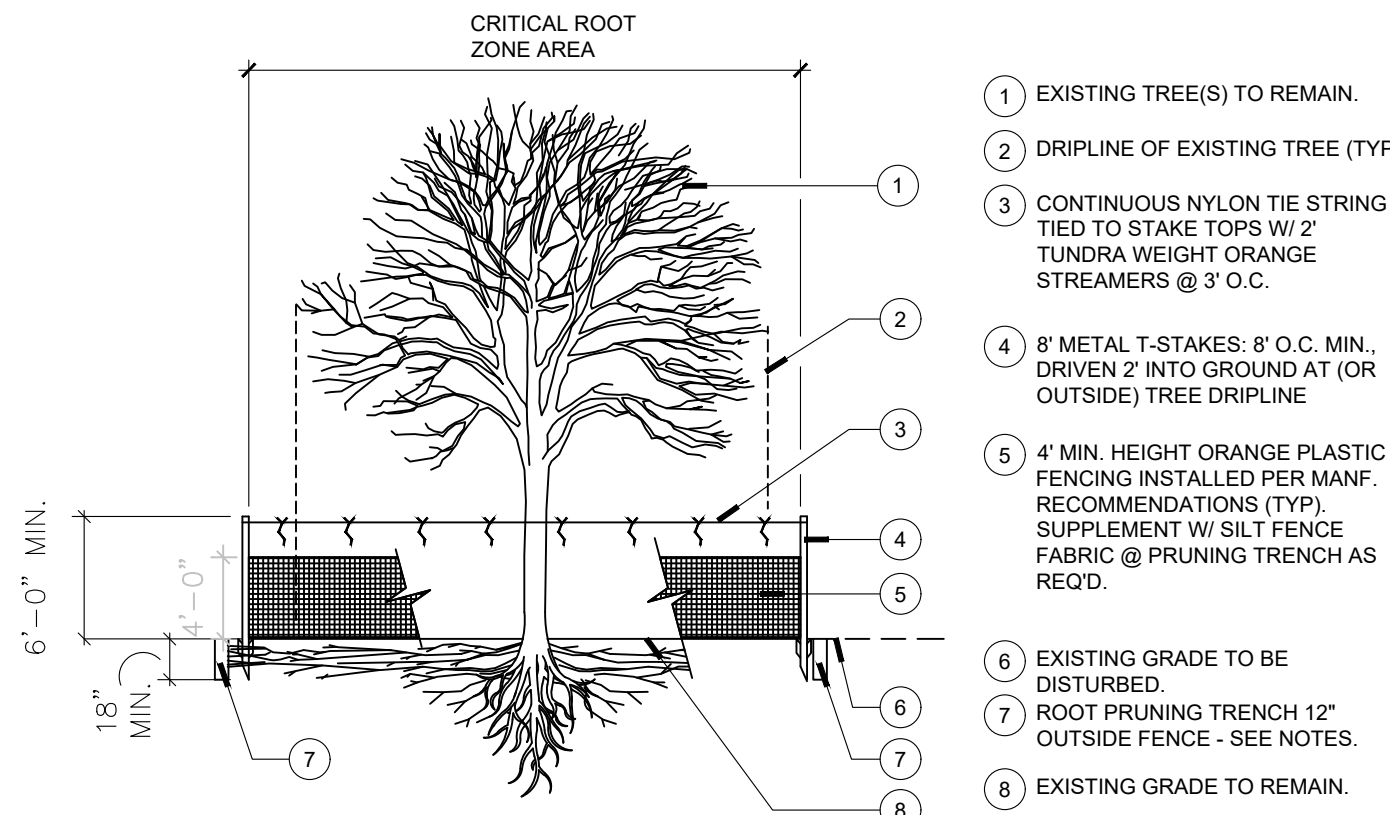
5 DECORATIVE LAWN BOULDER
N.T.S.



6 PARKING SPACE/CURB PLANTING
N.T.S.



7 PLANTING DETAIL FOR 90° MATCHLINE DUG TREES (14")
N.T.S.



- NOTES:
1. PERFORM ROOT PRUNING ON ALL EXISTING TREES TO REMAIN WHERE CONSTRUCTION ACTIVITY FALLS WITHIN DRIP LINE OF EXISTING TREES.
 2. ROOT PRUNING METHOD: 2 MONTHS MIN. PRIOR TO EXCAVATION & CONSTRUCTION ACTIVITIES: HAND CUT ROOTS BY DIGGING A 18"X24" DEEP X 8" WIDE TRENCH ALONG THE OUTSIDE PERIMETER OF EXISTING TREE(S) ADJACENT TO CONSTRUCTION AREAS. MAXIMIZE PRUNING TRENCH DISTANCE FROM TRUNK TO THE FULLEST EXTENT POSSIBLE, W/ THE ROOT PRUNING LINE PLACED @ THE EDGE OF CONSTRUCTION LIMITS.

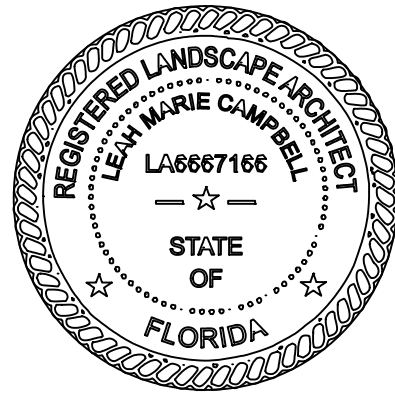
8 TREE PROTECTION DETAIL
N.T.S.

TREE PRESERVATION/ REMOVAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH ISA CERTIFIED ARBORIST AND PROPERTY OWNERS TO VERIFY OBJECTIVES PRIOR TO COMMENCING ANY PRUNING OR TREE REMOVAL ACTIVITIES.
2. ALL CREW MEMBERS SHOULD BE WEARING THE APPROPRIATE SAFETY GEAR: HARD HATS, EYE PROTECTION, APPROVED BOOTS, HEARING PROTECTION, CHAIN SAW CHAPS FOR GROUNDWORK.
3. ANY TREES REMOVED, AND ALL TREE MATERIALS REMOVED SHALL BE REMOVED FROM THE PROPERTY AT THE CONTRACTOR'S EXPENSE.
4. ALL TRASH AND DEBRIS FROM ANY CONSTRUCTION RELATED ACTIVITIES SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE, FOLLOWING COMPLETION OF THE PROJECT.
5. ANY DAMAGE TO THE EXISTING LANDSCAPE, PAVEMENT, BUILDING, OR ANY OTHER SITE FEATURES SHALL BE REPLACED BY THE CONTRACTOR AND/OR RESTORED TO PRE-CONSTRUCTION CONDITION.
6. CONTRACTOR SHALL PROVIDE REMOVAL, STORAGE, AND TRANSPLANTING OF 4 EXISTING TREES ON SITE. THE CONTRACTOR SHALL REMOVE EACH EXISTING TREE THROUGH THE USE OF HAND DIGGING, OR WITH THE USE OF AN APPROVED MECHANICAL DEVICE. TREES SHALL BE HARVESTED AS BALLED & BURLAPPED TREE SPECIMENS, PER ANSI Z80 STANDARDS, AND TRANSPORTED TO NEW LOCATION ON SITE, OR AT ALTERNATE SITE AS DIRECTED OR APPROVED BY THE OWNER. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY TO PROVIDE FOR REMOVAL, PLACEMENT OF BURLAP, PLACEMENT OF WIRE BASKET OR OTHER APPROVED BALL-SUPPORTING DEVICE, TRANSPORT TO TEMPORARY STORAGE AREA, ONGOING MAINTENANCE AND WATERING DURING CONSTRUCTION, AND RE-PLANTING TO BE PERFORMED UPON COMPLETION OF MAJOR SITE WORK. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES AND RECOMMENDATIONS SET FORTH IN THE AMERICAN STANDARDS FOR NURSERY STOCK.

Kimley»Horn

445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
PH: (772) 794-4100
REGISTRY NO. 696
KHA PROJECT # 047916134



Cheddars
SCRATCH KITCHEN

Issue Date: 2/15/2023

REVISION INFORMATION

Restaurant #: 21K0037

CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

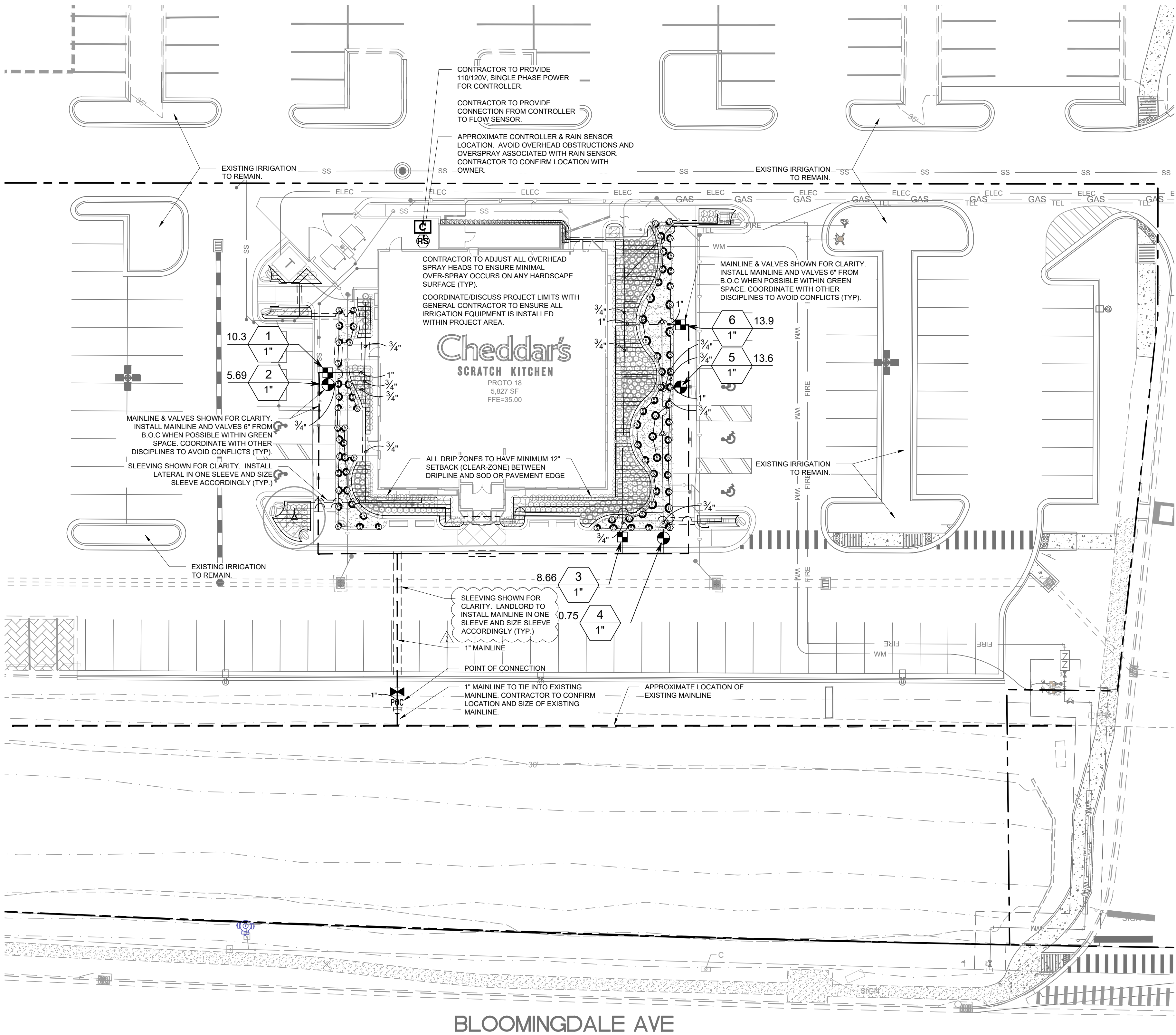
PROTOTYPE 18

HILLSBOROUGH CNTY FLORIDA

DRAWING

LANDSCAPE DETAILS

L1.2



BLOOMINGDALE AVE

EXISTING IRRIGATION NOTES

- CONTRACTOR TO CONFIRM EXISTING SYSTEM SOURCE AND BACKFLOW ARE FULLY OPERATIONAL.
- CONTRACTOR TO CONFIRM EXISTING BACKFLOW IS TO SERVE IRRIGATION SYSTEM ONLY. EXISTING BACKFLOW MUST BE PLACED ON IRRIGATION SERVICE LINE TO PREVENT ANY POSSIBILITY OF BACKFLOW FROM BEING DIRECTED INTO THE BUILDING. IF THE EXISTING BACKFLOW IS NOT A DEDICATED IRRIGATION BACKFLOW, CONTRACTOR IS TO INSTALL A NEW BACKFLOW. SIZE ACCORDING TO METER SIZE.
- CAP EXISTING LINES WHERE NECESSARY FOR CONSTRUCTION.
- MAINLINE APPROXIMATE LOCATION AS SHOWN. CONTRACTOR TO LOCATE EXACT LOCATION AND UTILIZE. PROTECT MAINLINE IN PLACE DURING CONSTRUCTION. CAP EXISTING MAINLINE AND LEAVE IN PLACE WHERE NECESSARY.
- DO NOT TRENCH UNDER EXISTING TREES. HAND TRENCH Laterally TO INSTALL HEADS, DRIP, ETC.
- ALL PROPOSED IRRIGATION TO MATCH EXISTING PRECIPITATION RATES. IF ZONES ARE COMBINED WITH EXISTING ZONES, NO DRIP AND HEADS TO BE ON SAME ZONES.
- ALL EXISTING IRRIGATION SHOWN TO REMAIN SHOULD BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO CONFIRM 100 PERCENT COVERAGE ON EXISTING AND MODIFY IF NEEDED.
- MODIFY ZONES PER REVISED CHANGES. CAP LINES WHERE NECESSARY. ADD HEADS AS NEEDED, REPLACE HEADS/NOZZLES TO PROVIDE FULL COVERAGE.
- DO NOT REMOVE EXISTING SLEEVED LINES UNDER PAVEMENT UNLESS SPECIFIED.
- CONTRACTOR TO NUMBER EXISTING VALVES AND PROPOSED VALVES IN NUMERICAL ORDER STARTING FROM THE METER AND GOING IN A CLOCKWISE CIRCLE.
- CONTRACTOR TO FIELD INVESTIGATE EXISTING CONDITIONS TO LOCATE EXISTING IRRIGATION LATERAL LINES AND RE-PURPOSE FOR NEW IRRIGATION IN THE LANDSCAPE ISLAND.

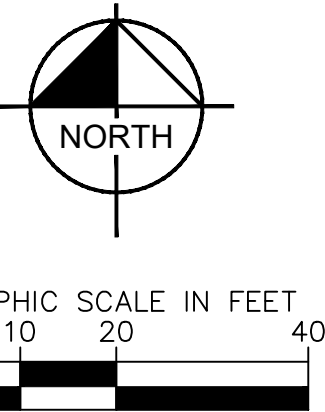
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Toro 570Z-4P 5 Series Turf Spray, 4\"/>	69
	Toro 570Z-4P 8 Series Turf Spray, 4\"/>	8
	Toro 570Z-4-FB-PC .25 Pressure-Compensating Flood Bubbler Nozzle. 0.25 GPM.	3
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Toro D2K-700 Low Flow Drip Control Valve Kit. With 1\"/>	3
	Toro PCB-412 Drip-In Pressure Compensating Landscape Dripline. 1.00 GPH emitters at 12\"/>	1,860 l.f.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Toro 220-26-0 Brass 1\", 1-1/4\", 1-1/2\", 2\", 2-1/2\", and 3\" Electric Remote Control Valve. With Spike Guard Solenoid. 1\"-2\" have In-Line Globe Body Style, and 2-1/2\"-3\" are Angle Valve Body Styles.	3
	Isolation Valve	1
	Toro TMC-424E-ID with (01) TSM-8 12-Station Indoor Controller. 4-Base Station Model with one 8-station expansion module. Standard Surge.	1
	Toro TRS Wired Rain Sensor. Mount as noted or approved, use controller power or optional transformer. Adjust rain shutoff index. Normally-Open or Normally-Closed. Compatible with most controllers.	1
	Point of Connection 1"	1
	Irrigation Lateral Line: PVC Class 200 SDR 21	1,096 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21	329.6 l.f.
	Pipe Sleeve: PVC Schedule 40	133.7 l.f.
	Valve Calcut	
	Valve Number	
	Valve Flow	
	Valve Size	

- THIS IRRIGATION PLAN IS DESIGNED TO THE FOLLOWING STATS: 65 PSI AND 37.5 GPM. IF WATER PRESSURE DOES NOT MEET DESIGN SPECIFICATIONS A BOOSTER PUMP WILL BE REQUIRED AT COST OF CONTRACTOR. CONTACT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF SYSTEM HAS +/- 5 PSI than DESIGN PRESSURE.
- ABOVE QUANTITIES PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR TO CONFIRM ALL QUANTITIES PRIOR TO BIDDING.
- REFERENCE MAXIMUM LATERAL DRIPLINE CHART TO DETERMINE MINIMUM NUMBER OF POINTS OF CONNECTION PER DRIP LINE ZONE.
- WHERE LAYOUT FLEXIBILITY EXISTS CENTER FEED LAYOUTS MUST BE USED. THIS ALLOWS FOR EVEN FLOW OF WATER THROUGH THE ZONE.
- HUNTER ECO-INDICATOR TO BE PLACED IN ALL DRIP AREAS AT THE FURTHEST POINT OF EACH DRIP RUN.
- ZONES LOWER THAN THE CAPACITY OF THE FLOW SENSOR ARE TO BE WIRED IN THE CONTROLLER WITH ANOTHER ZONE SO THAT THE FLOW SENSOR READS BOTH ZONES AS ONE ZONE IN ORDER TO MEET THE FLOW SENSOR'S LOWEST GPM REQUIREMENT. DRIP ZONES REQUIRED TO REMAIN PIPED AS SEPARATE ZONES.

IRRIGATION NOTES:

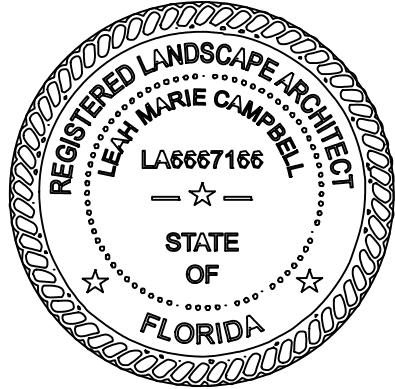
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
- THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS PRIOR TO COMMENCEMENT OF OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR.
- THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
- THIS IRRIGATION SYSTEM IS DESIGNED TO THE FOLLOWING STATS: 75 G.P.M. STATIC WATER PRESSURE IS 65 P.S.I.
- CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE EXCEEDS 5 PSI HIGHER OR LOWER THAN AVAILABLE WATER PRESSURE.
- VERIFY CONTROLLER AND RAIN SENSOR LOCATION AND MAINLINE POINT OF CONNECTION AT PROJECT SITE WITH OWNER.
- IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
- WHERE APPLICABLE IRRIGATION HEADS ARE TO BE ADJUSTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAY BEYOND LANDSCAPE AREAS.
- EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
- IRRIGATION LATERAL LINES, MAIN LINES AND EQUIPMENT MAY BE SHOWN OUTSIDE PROPERTY LINES ON THIS PLAN, ALL IRRIGATION LINES AND EQUIPMENT ARE TO BE WITHIN AND INSTALLED WITHIN THE LIMITS OF THE PROPERTY LINE.
- ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR UNLESS OTHERWISE NOTED. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES. SEE SLEEVING DETAIL. ALL PRESSURE MAINLINES UNDER ASPHALT PAVEMENT SHALL BE PLACED WITHIN SLEEVES AS NOTED.
- SUPPLY LINE AND METER TO BE PROVIDED BY GENERAL CONTRACTOR. BACKFLOW PREVENTER TO BE PROVIDED BY IRRIGATION CONTRACTOR.
- IRRIGATION CONTRACTOR'S POINT OF CONNECTION TO BEGIN AFTER THE IRRIGATION WATER METER.
- IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNERS REPRESENTATIVE.
- ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
- MAINLINE, VALVES, AND WIRING ARE SHOWN ON DRAWINGS FOR CLARITY. SHOULD BE LOCATED IN ACCESSIBLE GREEN SPACE. CONTRACTOR TO COORDINATE WITH ALL DISCIPLINES TO AVOID CONFLICTS WITH UTILITIES/ STRUCTURES, ETC.
- CONTRACTOR RESPONSIBLE FOR PROVIDING 110 SINGLE PHASE POWER TO CONTROLLER.
- INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
- ALL 24 VAC WIRING SHALL BE OF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
 - CONTROL WIRES - #14
 - COMMON WIRES - #12
- LOCATE ALL VALVES A MINIMUM OF 24\"/>
- SET SPRAY HEADS 4\"/>
- CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT. "AS-BUILT" DRAWINGS TO BE COLOR CODED BY ZONE ON 8.5\"/>
- THE SYSTEM HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE. ANY CHANGES MADE IN THE LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS. QUANTITIES IN SCHEDULE ARE ESTIMATED. PLAN SHALL TAKE PRECEDENCE.
- IRRIGATION VALVES AND VALVE BOXES SHALL BE LOCATED IN LANDSCAPE BEDS OR GROUND COVER AREAS WHENEVER POSSIBLE. ALL REMOTE VALVE BOXES SHALL BE SET FLUSH WITH FINISHED GRADE AND CONTAIN ONE CUBIC FOOT OF CLEAN GRAVEL BENEATH VALVE. LABEL REMOTE BOXES WITH ONE-INCH ALPHA NUMERIC NOTATION CORRESPONDING TO THE APPLICABLE ALPHA CONTROLLER AND NUMERIC STATION.



DCH 22007

Kimley»Horn

445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
PH: (772) 794-4100
REGISTRY NO. 696
KHA PROJECT # 047916134



5/8/2023

Cheddars
SCRATCH KITCHEN

Issue Date: 2/15/2023

REVISION INFORMATION

2 4/5/2023
COORDINATION COMMENTS

Restaurant #: 21K0037

CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

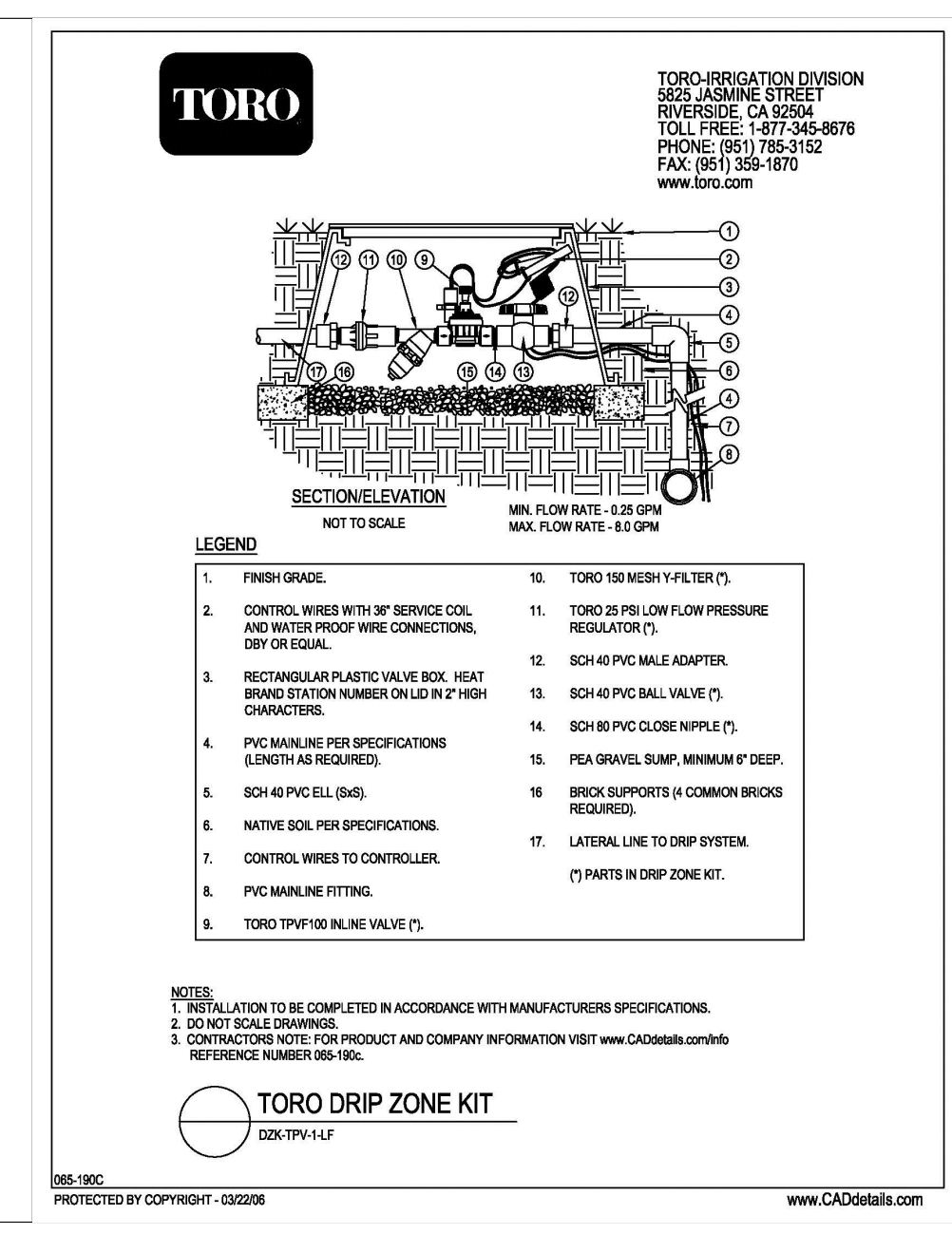
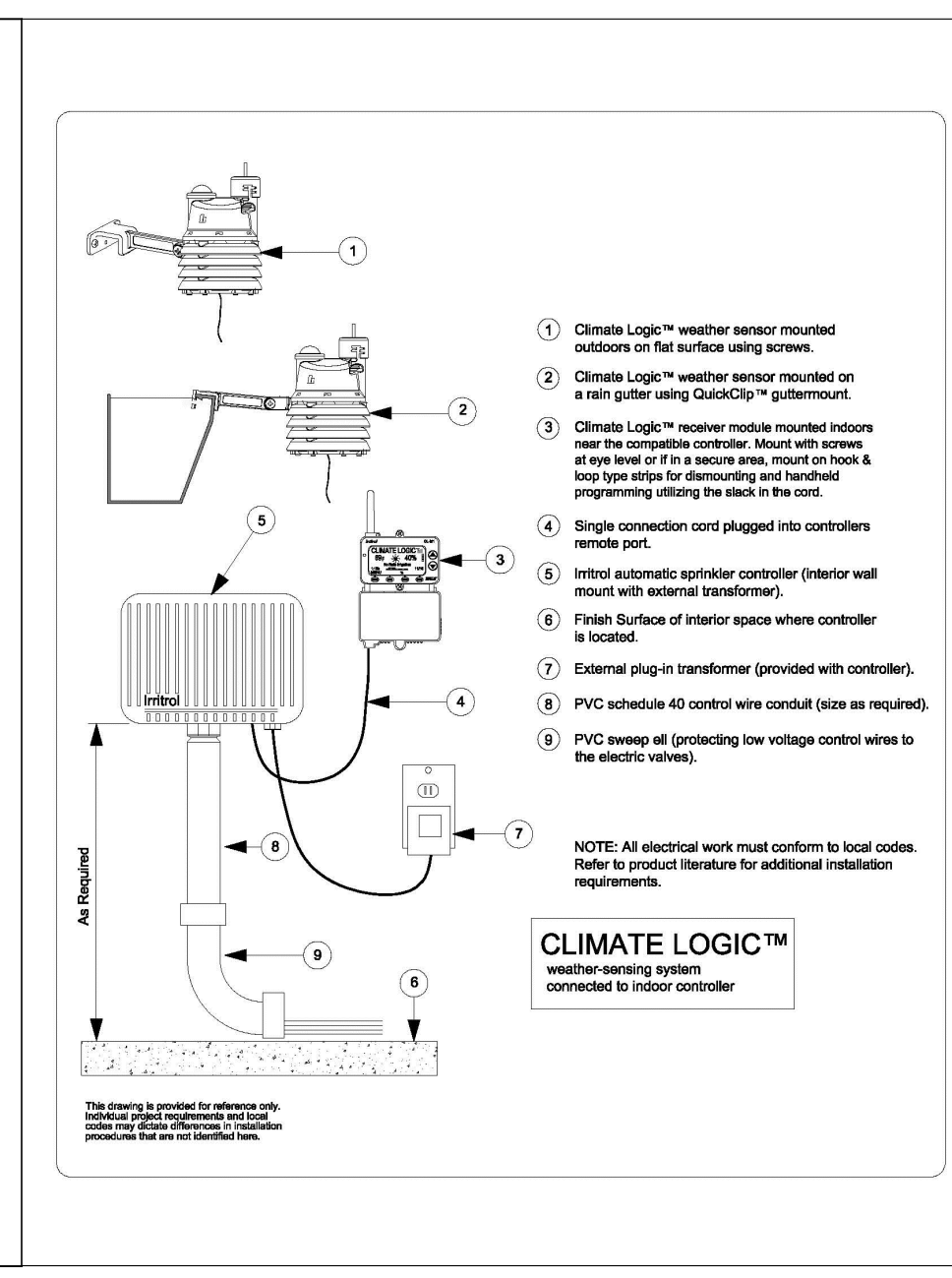
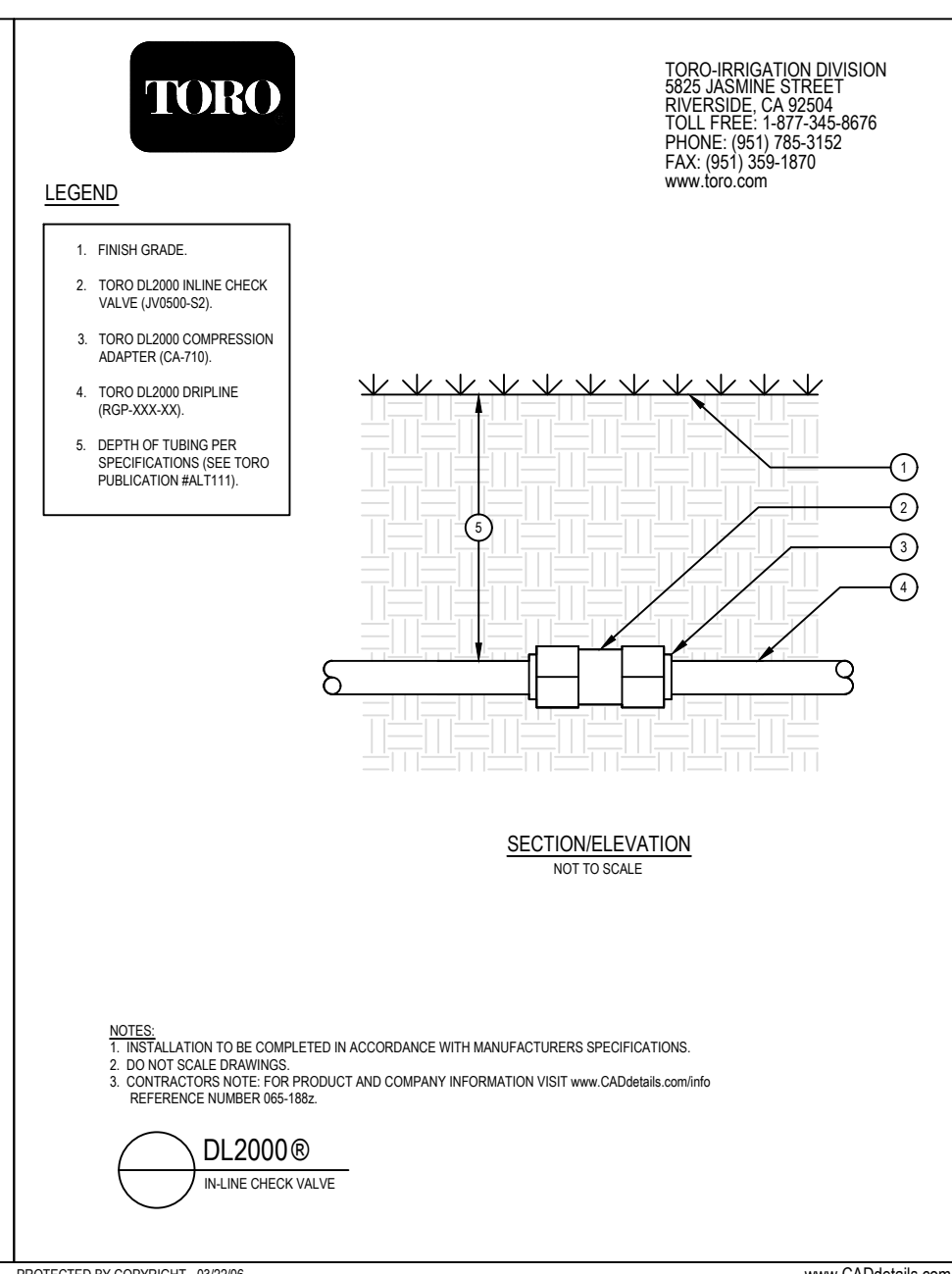
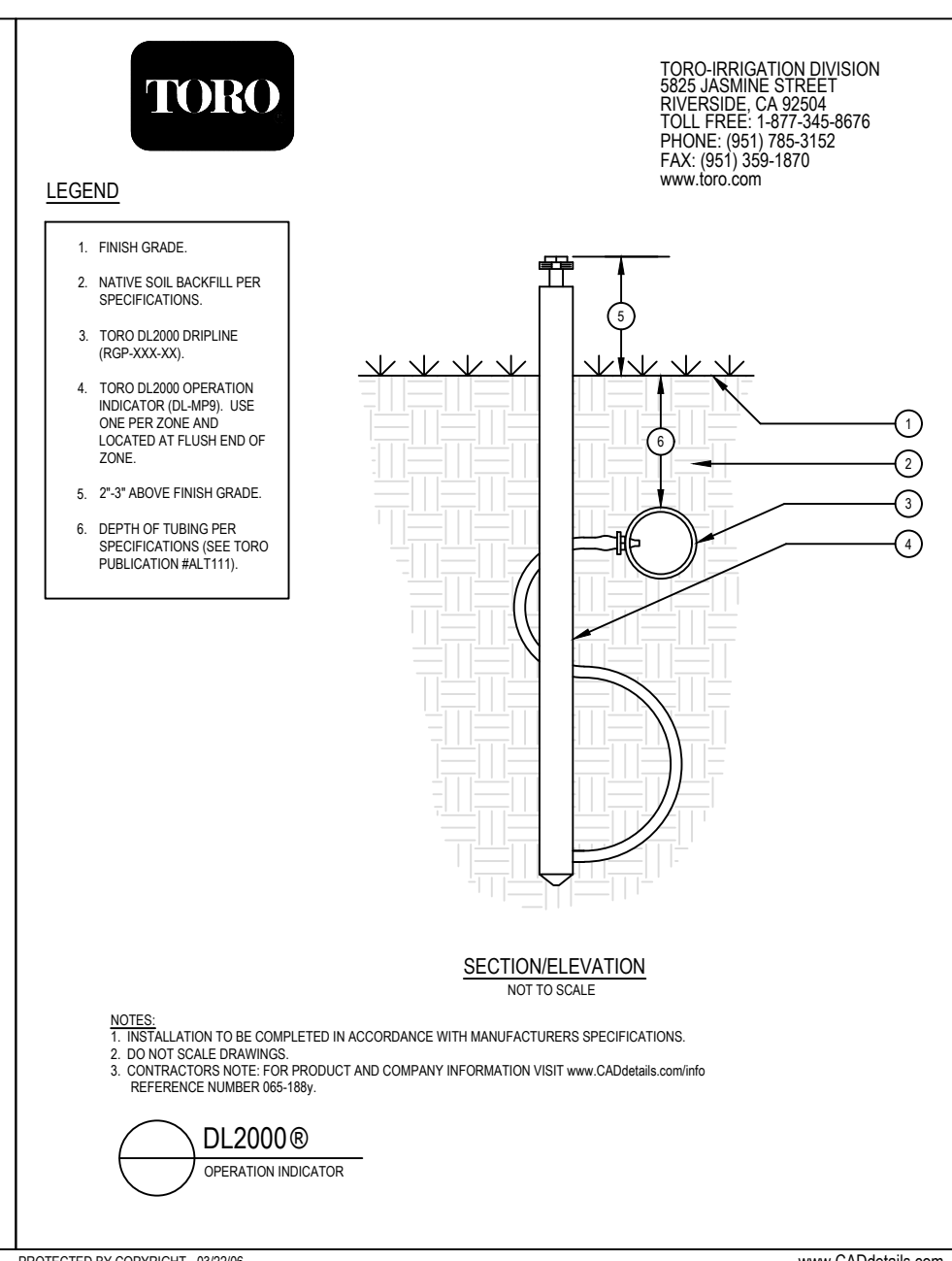
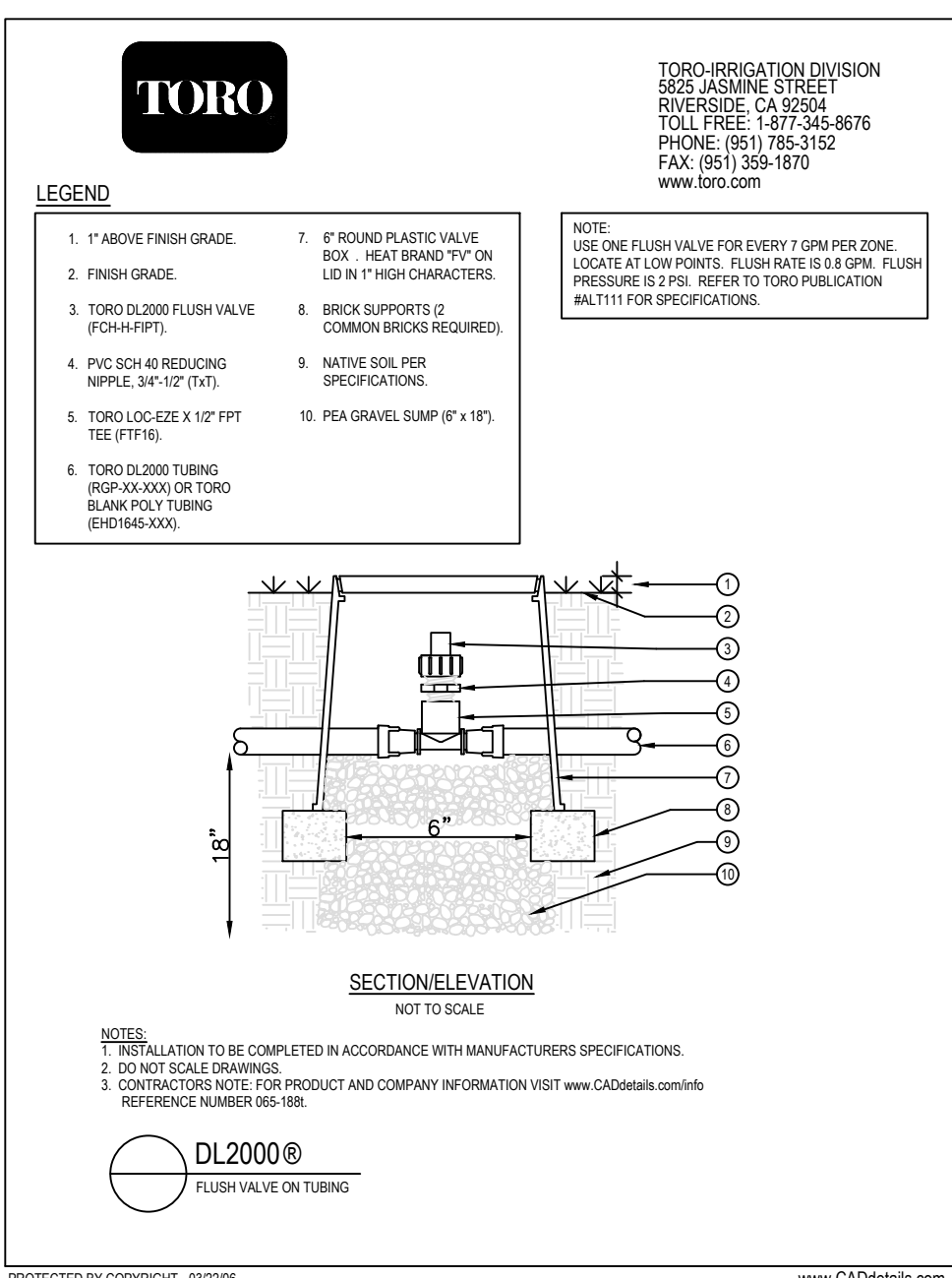
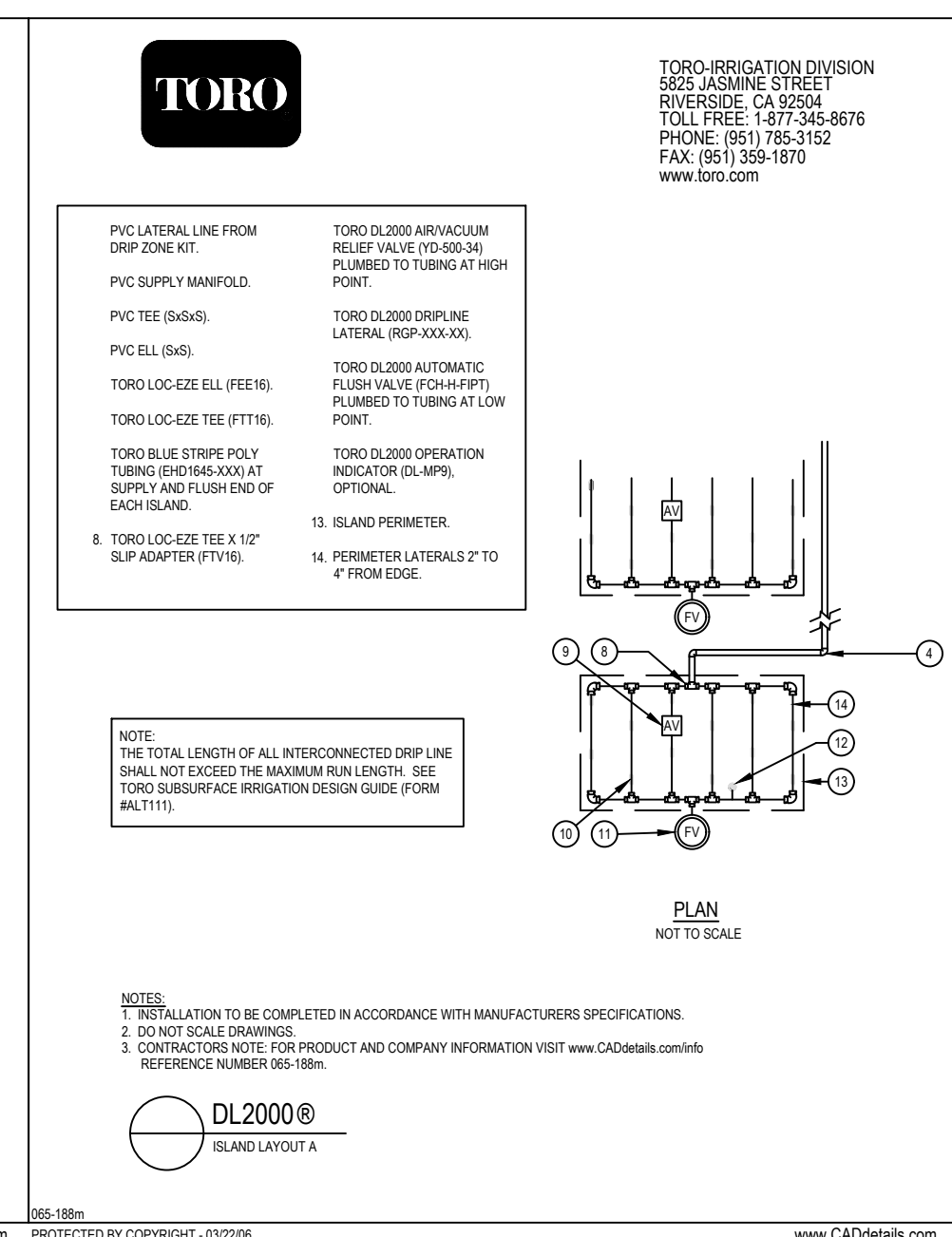
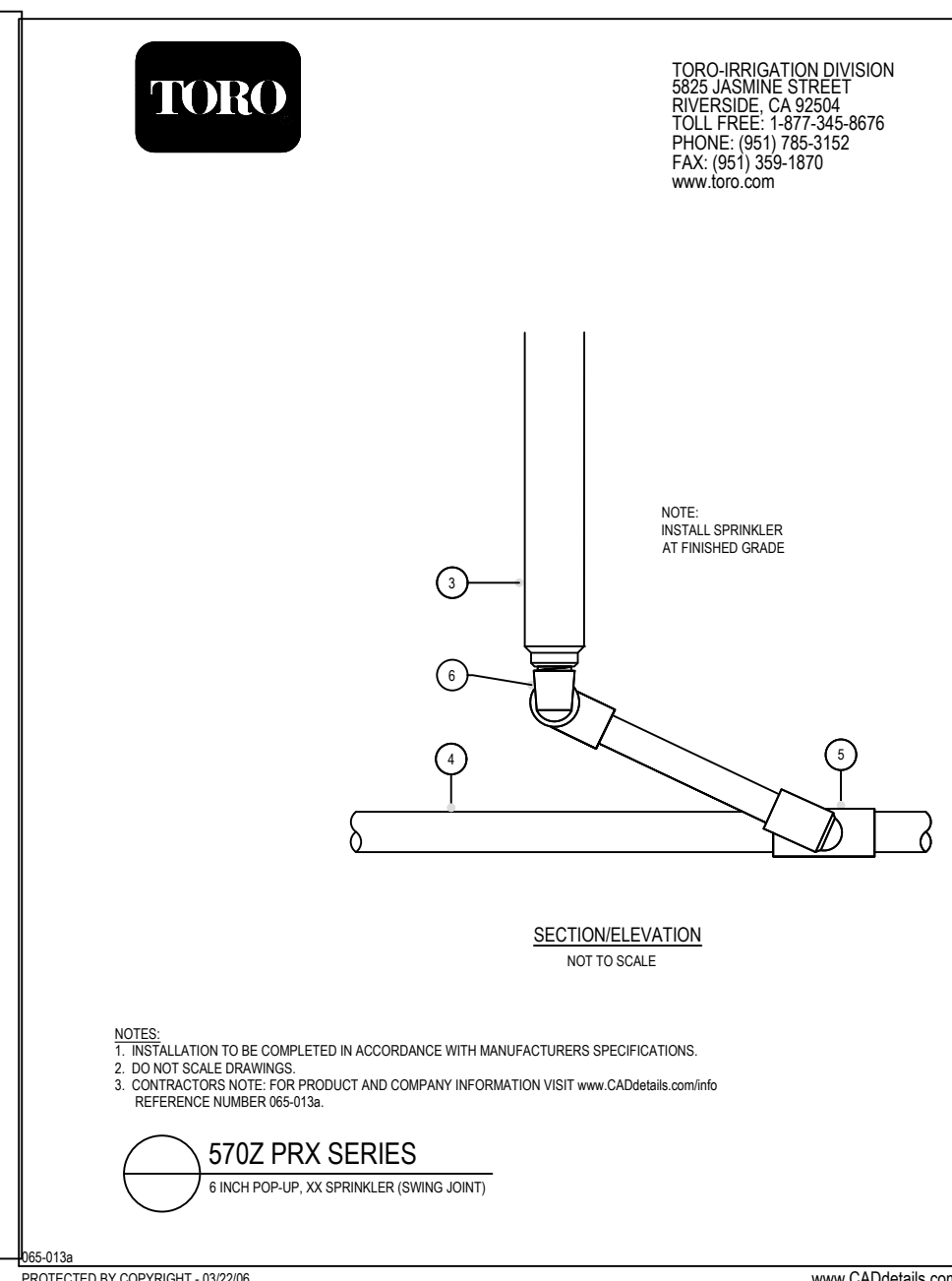
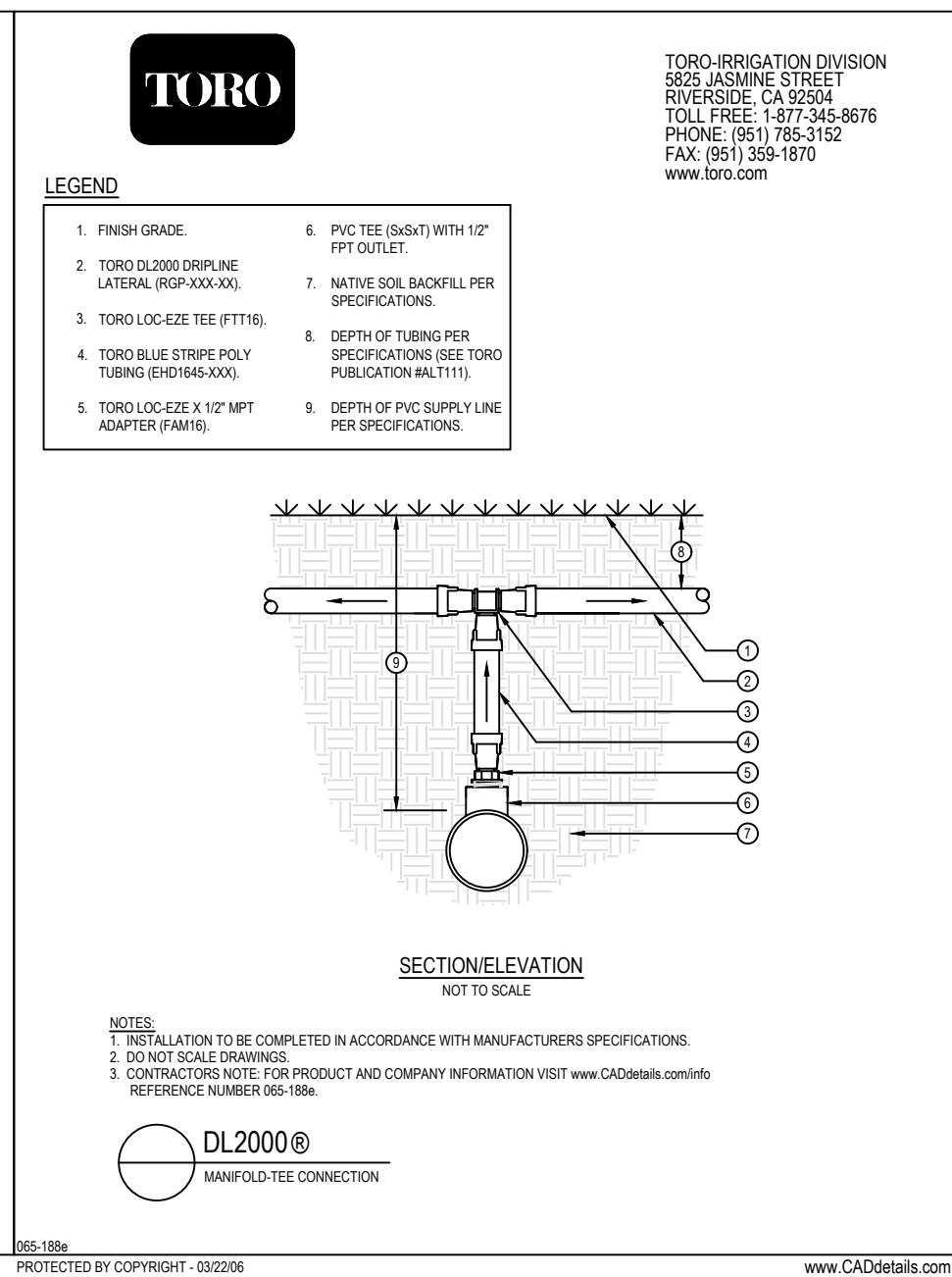
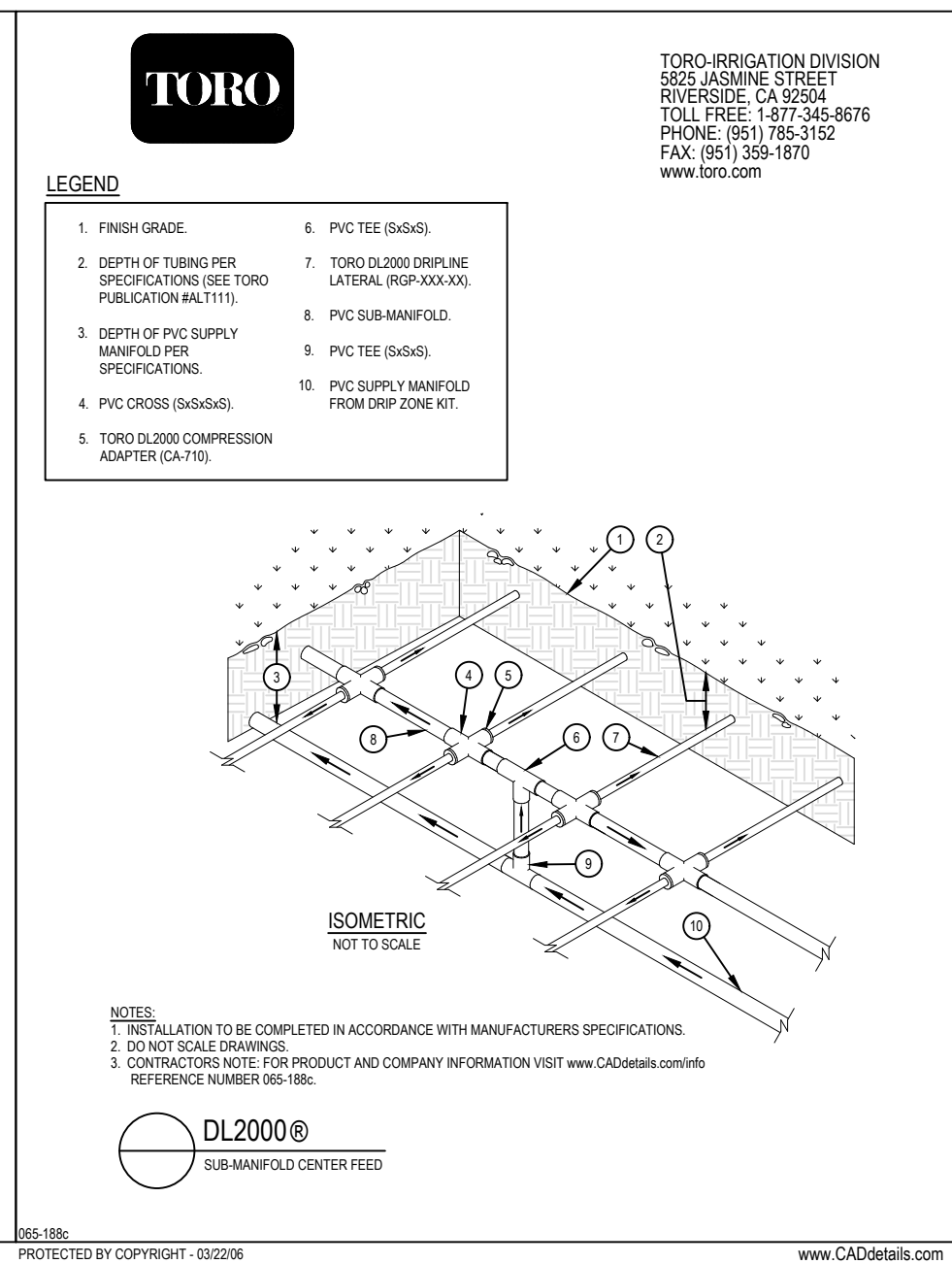
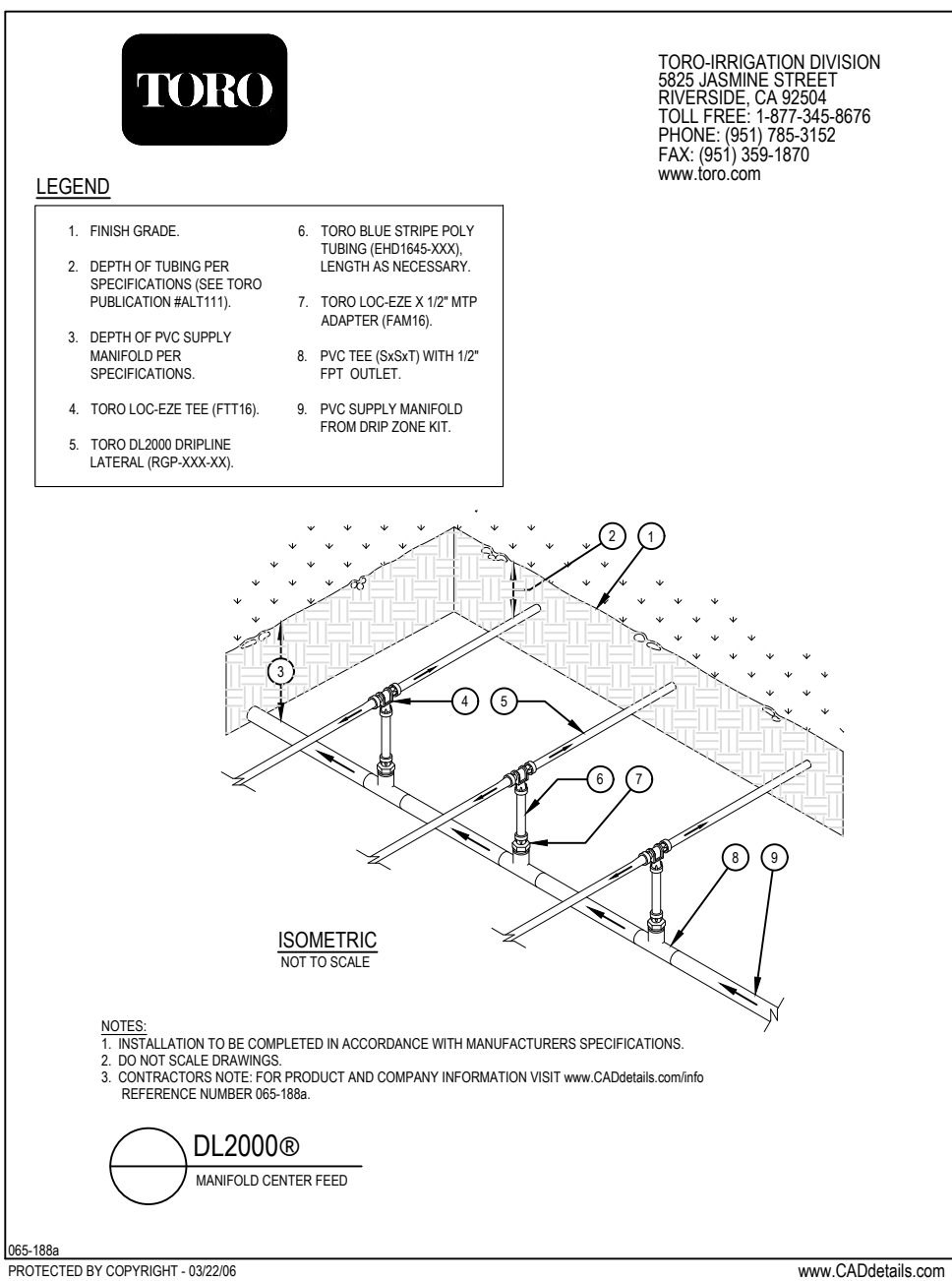
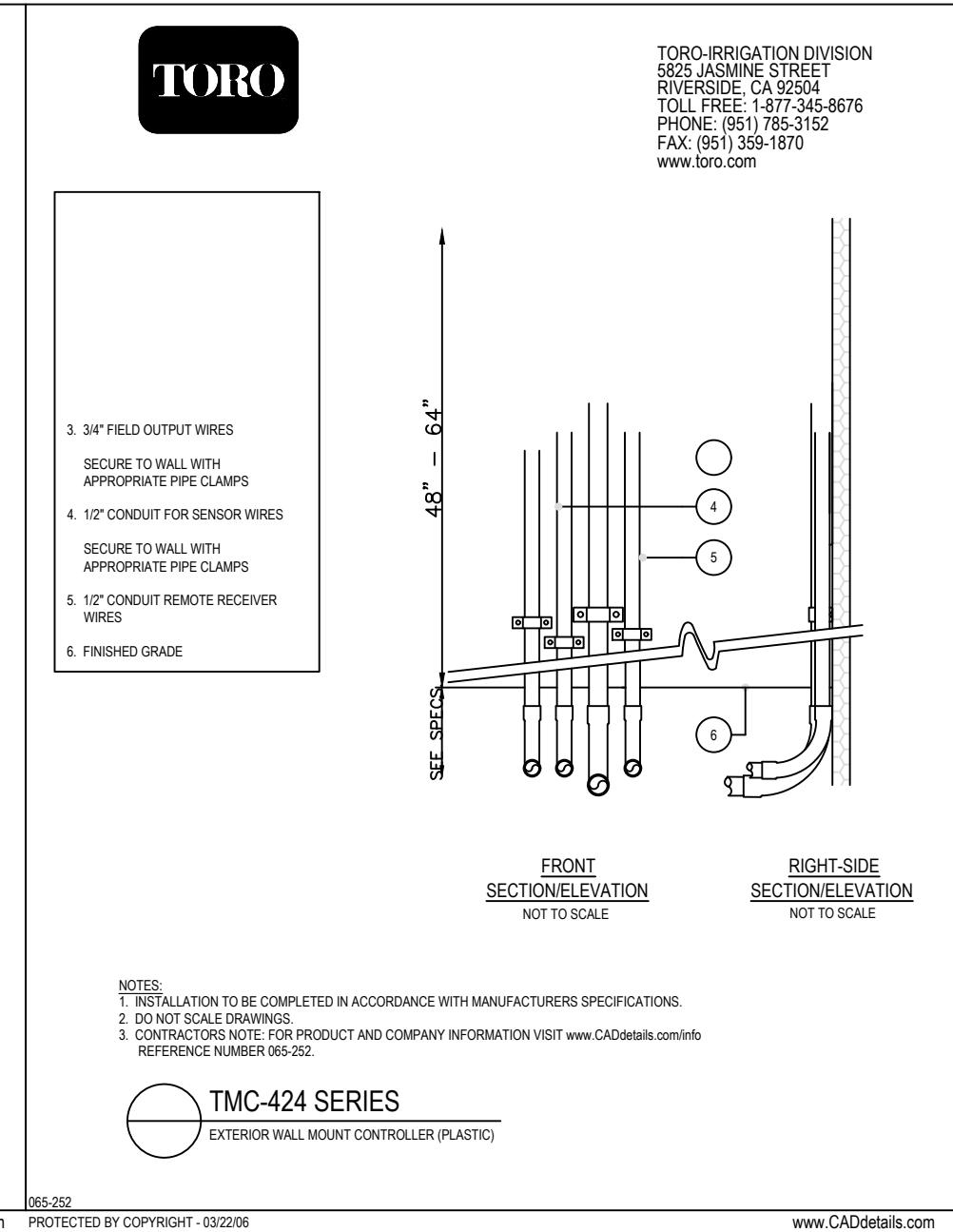
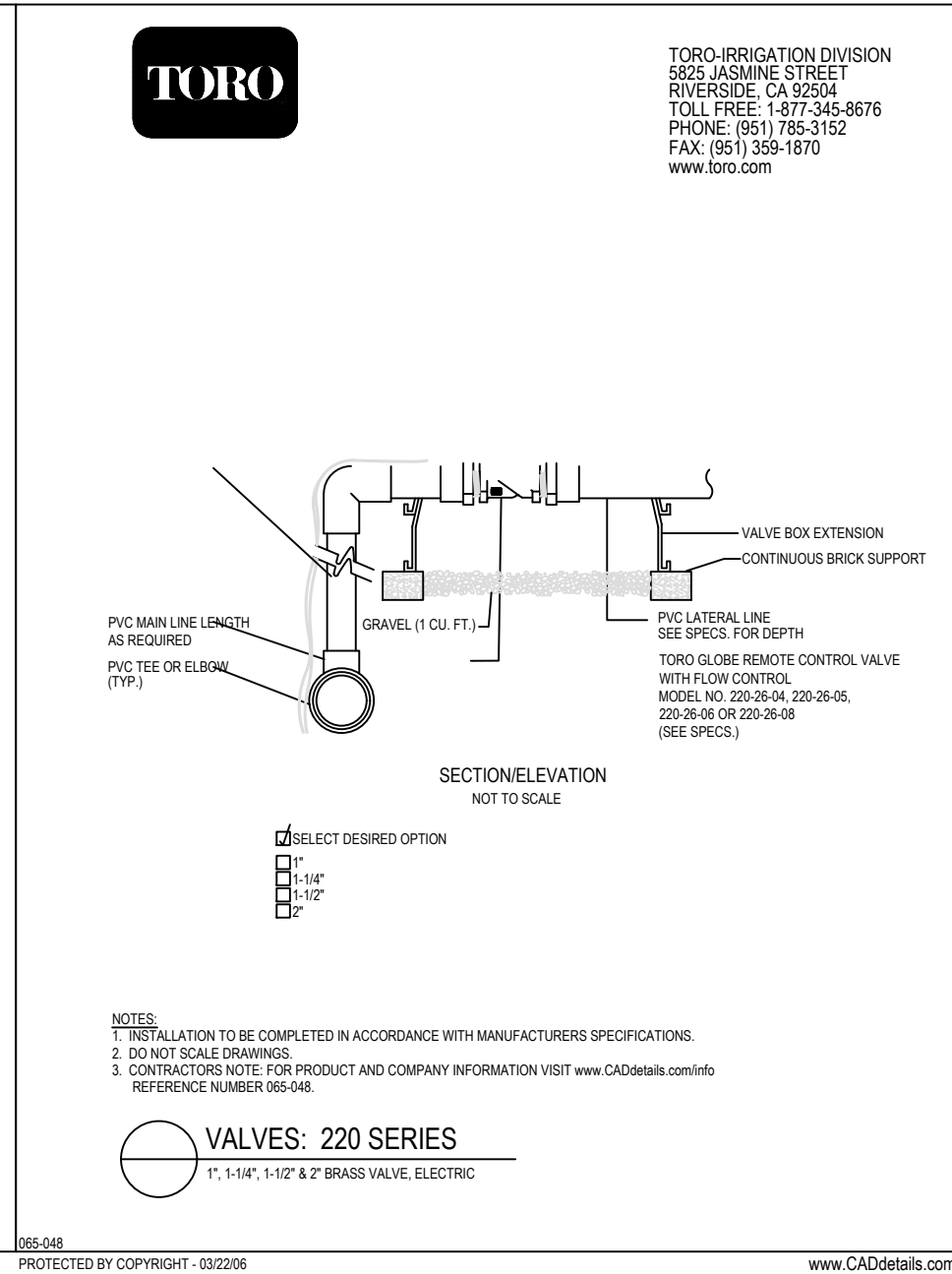
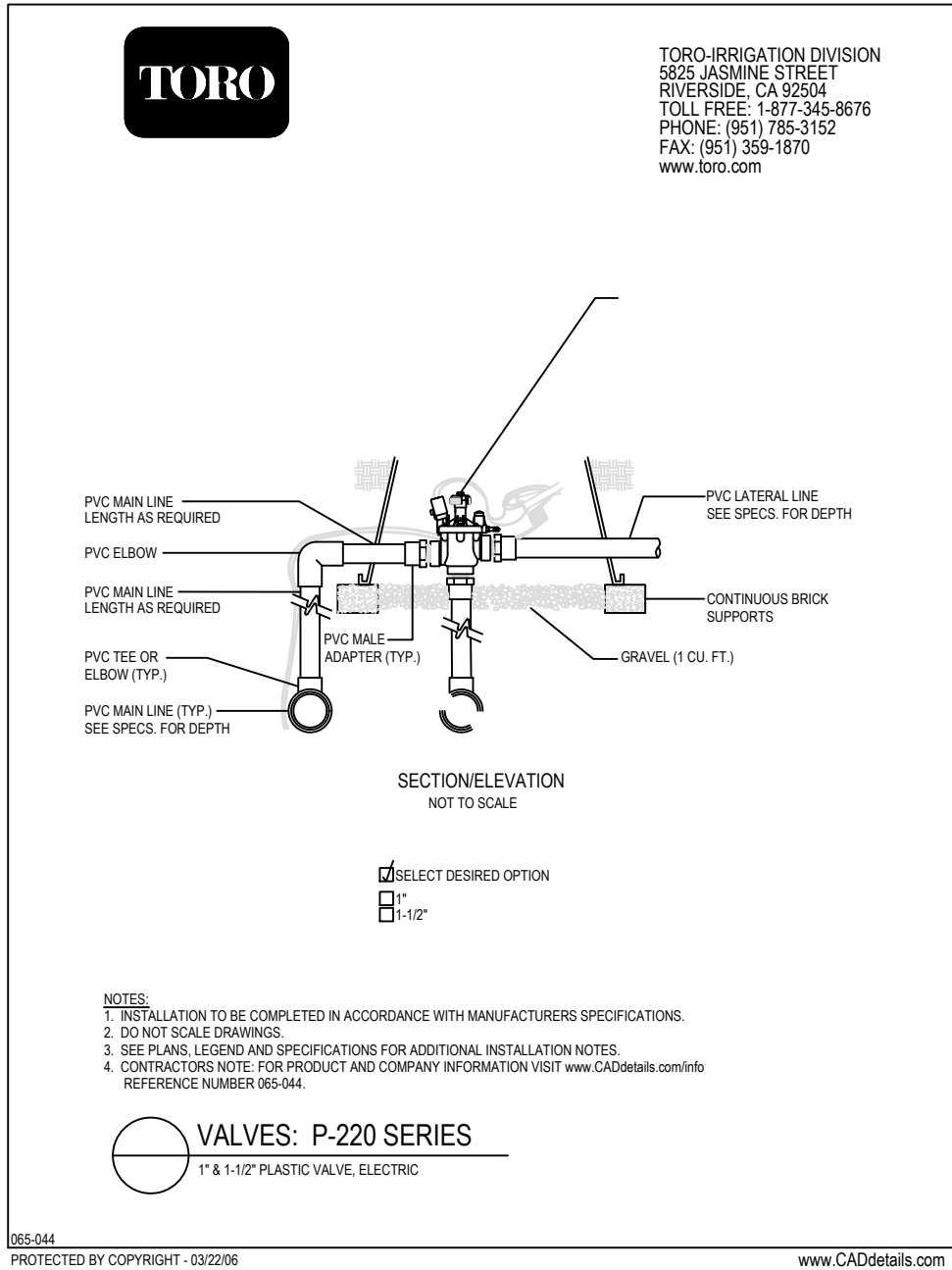
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HILLSBOROUGH CNTY FLORIDA

DRAWING

IRRIGATION PLAN

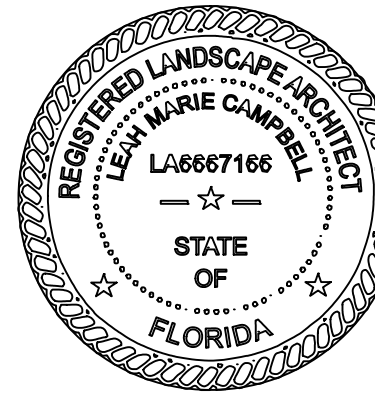
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**CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW**

PROTOTYPE 18

HILLSBOROUGH CNTY FLORIDA

DRAWING

IRRIGATION DETAILS

L2.2

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and assent by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

SECTION 02700
IRRIGATION SYSTEM

Part 1.00 General

1.01 SCOPE OF WORK

A. This section shall govern the furnishing of all labor, materials and equipment for a complete operating system for lawn irrigation as specified herein and shown on the applicable drawings.

1.02 SUBMITTALS

A. Material List: Submit list of all materials for irrigation system.

B. Maintenance Items: Provide the following

1. Two sets of sprinkler wrenches for adjusting, cleaning or disassembling each type of sprinkler.

2. Two service manuals for all equipment installed. Manuals shall be loose leaf and show drawings or exploded views of equipment and catalog numbers and current prices.

3. Operating instructions for all equipment installed.

4. One set of quick coupling keys to operate the quick coupling valves.

C. Project Record Documents: Correct daily to indicate changes from Contract Documents.

1. Horizontally at 90 degree angles, dimension the location of the following items from two permanent points of reference; i.e. curb corners, light standards, building corners, survey hub points, or coordinates with a tolerance of 1/2 inch in any direction.

a. Sprinkler main line routing.

b. Connections to the existing water supply lines.

c. Sprinkler control valves.

d. Gate valves.

e. Electrical control wire path diagrammatically.

2. Vertical dimensions shall be given for main line conditions require installation deeper than 24 inches.

1.03 PRODUCT HANDLING

A. Exercise care in handling, loading, unloading and storing irrigation system materials to avoid damage. Store under cover.

1.04 PRODUCT CONDITIONS

A. The Contractor shall make all temporary repairs as necessary to keep the irrigation system in operating condition. This exercise shall not effect the requirements to be performed under the Contract Documents.

B. Coordinate work with that of other trades, all underground improvements, the location and planting of specimen trees and all other planting. Location of all planting requiring excavations 24 inch in diameter and larger shall be verified with Owner prior to installation of main lines.

1.05 INSPECTION

A. Verify dimensions and grades at job site.

Part 2.00 Products

2.01 MATERIALS

A. Plastic pipe: Extruded from 100% Virgin Polyvinyl Chloride (PVC).

1. Plastic pipe installed on pressure side of valves: (PVC) ASTM D1785, Schedule 40, or (PVC) ASTM D2241 Class 200.

2. Plastic pipe installed on non-pressure side of valves: (PVC) ASTM D2241 Class 125.

B. Plastic fittings: (PVC) ASTM D1785, Type 2, IPS, Schedule 40, NSF.

C. Solvent & Cleaner: As recommended by pipe manufacturer.

D. Automatic Controller: Toro TMC 424, High Surge Expansion Modules

E. Weather Sensor: Irritrol Climate Logic Sensor CL-Wireless

F. Remote Control Valves: Toro P220 Series Plastic Valves

G. Sprinkler Heads: Sprays - Toro 5702-3P PPK, Rotors - Toro TSPCK

H. Sprinkler Nozzles: Toro Precision Spray Nozzles

I. Drip: Toro Drip In PC Brown Dripline, Toro Drip Zone Valve Kit

J. Wire, Copper, UL approved direct burial wire. Minimum 14 gauge or as specified on the drawings.

K. Remote Control Valve Boxes: Brooks #3 or Ametek VP-10. Box lids shall be marked "R.C.V."

1. Valve boxes for gate valves 3' and smaller: Ametek.

2. Gate valve boxes shall be marked "Irrigator" or "Water".

L. Conduit for Control Wires (if shown on drawings): (PVC) ASTM D1785, Schedule 40 in locations as indicated.

M. Miscellaneous Materials: As hereinbefore specified and as necessary to complete this work and as shown on Drawings.

Part 3.00 Execution

3.01 EXCAVATION AND BACKFILLING

A. Trenching - General:

1. Dig trenches straight.

2. Provide continuous support of the pipe by the bottom of trench. Lay pipe to even grade. Bottom of trench shall be free from rocks or other sharp edge objects.

3. Trenching shall follow layout indicated.

4. Minimum cover: Pressure Lines: 24 inches.

5. Non-Pressure Lines: 12 inches.

6. All lines shall have a 6" minimum clearance from each other and from lines of other crafts. Do not install lines directly over another line.

7. Maintain 1' minimum between lines which cross at angles of 45 degrees or less to 50 degrees.

7. Exercise care in excavating, trenching and working near existing utilities.

B. Backfilling:

1. Compact to dry density equal to adjacent undisturbed soils.

2. Conform to adjacent grades without dips, sunken areas, humps or other irregularities.

3. Initial backfill on plastic lines shall be pulverized native soil no larger than 2" in diameter and free of foreign matter.

4. Restore grades and repair damage where settling occurs.

C. Routing of Piping:

1. Pressure and non-pressure piping lines are routed diagrammatically on Drawings.

2. Coordinate specimen trees and shrubs with routing of lines. Planting shall take precedence over sprinkler and piping location. Report any major deviation from routing indicated to landscape architect or owner prior to line installation.

3. Install lines in such manner as to conform with drawings without offsetting the various assemblies from the pressure supply line.

3.02 INSTALLATION

A. Water Supply: Refer to drawings.

B. Quick coupling valves: Installed at intervals so that not more than 150 feet of hose will be required to reach any plant or tree (if a pressurized main system is being used).

C. Assemblies:

1. No multiple assemblies shall be installed on pressure lines.

2. Provide each assembly with its own outlet.

D. Cathodic Protection: Provide in the piping systems where required by installing insulating couplings, flanges or unions between copper or brass pipe or tubing and steel or cast iron pipe.

E. Plastic Pipe: Install plastic pipe in accord with manufacturer's recommendations. Install sprinkler head on plastic pipe as indicated.

1. All welded joints shall be cleaned with manufacturer's cleaner prior to applying solvent.

2. Welded joints shall be given at least 15 minutes set-up curing time before moving or handling.

a. Pipe shall be partially center loaded to prevent cracking and shifting under pressure.

c. No water shall be permitted in pipe until a period of at least four hours has elapsed for solvent weld setting or curing as required by solvent manufacturer.

2. Backfilling shall be done when pipe is not in expanded condition due to heat.

Coaling of pipe can be accomplished by operating the system for a short time before backfill, or by backfilling in the early part of the morning before the heat of the day.

3. Curing: When the temperature is above 80 F, soluble weld joints shall be given at least 24 hours curing time before water is introduced under pressure.

F. Automatic Controller:

1. Contractor shall be responsible for making control wire and electric power connections to the automatic controller.

G. Remote Control Valves:

1. Install at sufficient depth to provide not more than 6" nor less than 4" cover from the top of the valve to finish grade.

2. Install valves in a plumb position with 24" minimum clearance from other equipment for proper maintenance.

3. All valves shall be installed in appropriate sized valve boxes with cover.

H. Wire Connections: All underground wire connections to electric meter and control valves shall be made by using waterproof wire connectors as manufactured by King Technology Inc.

I. Gate Valves:

1. Line size and install where indicated and sufficient clearance from other materials for proper maintenance.

2. Equip valves, sizes 3' and smaller, with standard operating wheel for operation. Valve bonnet packing shall be checked and tightened before backfill. All valves shall be 150 psi rated.

3. All valves shall be installed in appropriate sized valve boxes with cover.

J. Sprinkler Heads:

1. Install in a plumb position at intervals not to exceed the maximum spacings indicated.

2. Heads in lawn or turf areas where grass has not been established shall be installed on temporary risers extending at least 2' above grade.

3. Where heads are installed along walks, roads, etc., they shall be permanently positioned.

K. Thrust Blocks: Install thrust blocks on all main irrigation lines 4" or larger at all changes of direction, as detailed in manufacturer's recommendations on pipe installation or as shown on the drawings.

L. Flushing of System:

1. Flush main and lateral systems to clean out all debris and sediment prior to installation of heads.

2. This does not relieve requirements of future adjustments of system or refilling system.

3.03 ELECTRICAL

A. Be responsible for making wire connections from remote control valves to controllers. All wiring shall be in accord with applicable codes.

3.04 PRESSURE TEST

A. Test all pressure lines under hydrostatic pressure of 100 lbs. per square inch and all non-pressure lines shall be tested under the existing static pressure and both be proven watertight.

B. Pressure shall be sustained in the lines for not less than four hours. If leaks develop, the joints shall be replaced and the test repeated until the entire system is proven watertight.

C. Perform tests prior to backfill.

3.05 LOWERING OF HEADS

A. All sprinklers installed in lawn areas unless otherwise noted shall be lowered to finish grade within ten days following notification by the owner.

B. At the time of lowering heads, completely check and adjust the entire system and make any repairs that are necessary to complete this work.

3.06 ADJUST AND CLEAN

A. Installations and Operations: Make such adjustments and repairs as requested as necessary for acceptance at no additional cost to the owner.

3.07 COMPLETE AND ACCEPTANCE

A. Completion of work shall mean the full and exact compliance and conformity with provisions expressed or implied in the drawings and specifications.

B. All work under this contract shall not be finally accepted until completion of the guarantee period.

C. The irrigation contractor shall demonstrate and fully acquaint the owner and/or owner's representative with the entire system, proving that all remote control valves are properly balanced, that all heads are properly adjusted for radius and arc of coverage, and that the system is workable, clean and efficient. This shall be a requirement for acceptance of the work.

D. Contractor shall upon receipt for final payment, give owner a set on CD of as-built irrigation system with all valves, tees and heads indicated as installed.

3.08 GUARANTEE AND REPLACEMENT

A. The irrigation contractor shall furnish warranties in writing certifying that the quality and workmanship of all materials and installation furnished is in accordance with these specifications and in accordance with original manufacturer's warranties. Irrigation contractor shall further see to the fulfillment of all manufacturer's warranties. Irrigation contractor shall warrant the installation workmanship for a period of one (1) year from date of completion or acceptance of the job, or any accepted portion of the job.

B. Should the irrigation contractor be notified that such information as it is made available. Plans and specifications of related work may be obtained from the owner or replacements promptly within three (3) days.

END OF SECTION

SECTION 02800

LANDSCAPE

Part 1.00 General

1.01 SCOPE OF WORK

A. This section covers furnishing and installing all landscape plants and nonplant materials covered by the drawings and these specifications. The work shall include materials, labor, equipment and services as described herein and indicated on the drawings. Also, the work shall include the maintenance of all plants and planting areas until acceptance by the Owner, and the fulfillment of all guarantee provisions as herein specified.

1.02 PLANTING LAYOUT

A. Before beginning work, the contractor shall investigate and verify, in the field, the existence and location of all underground utilities and irrigation piping, and take precautions to prevent their disturbance. It shall be the responsibility of the contractor to obtain all such information as it is made available. Plans and specifications of related work may be obtained from the owner.

B. The contractor shall locate all general reference points, take precautions to prevent their disturbance, perform the layout work, be responsible for all lines, elevation and location of work executed under the contract, exercise proper precaution to verify figures on drawings before laying out work and be responsible for any error resulting from failure to exercise such precaution. The contractor shall make field measurements for his own work and be responsible for its accuracy.

C. Discrepancies between topographical information on the site and conditions indicated on the drawings shall be called to the attention of the owner before or at the time plant locations are staked out.

D. In the event of a variation between the plant list and the actual number of plants shown on the plans, the plans shall control.

1.03 HORTICULTURAL STANDARDS

A. Unless otherwise noted, plant material, including collected materials, shall be grade No. 1 or better as outlined under Grades and Standards for Nursery Plants, and shall also conform to American Standard for Nursery Stock, ANSI (American National Standards Institute, Inc.) Z60.1-1996 as approved by the American Association of Nurserymen.

B. All plant names shall conform to the names given in Standardized Plant Names, 1942 Edition, prepared by the American Joint Committee on Horticultural Nomenclature. Names of varieties not included therein shall conform generally with names accepted in the nursery trade. All plant materials shall be true to those of the botanical name and variety names. Botanical name shall have precedence over common names and variety names.

C. The landscape architect shall have the right, at any stage of the operations, to conduct ball and soil tests to determine the soil conditions and to conform with the requirements of these specifications. Such rejected material shall be removed from the site and acceptable material substituted in its place.

1.04 CERTIFICATES OF INSPECTION

A. All plant material which is inspected by the Department of Agriculture, as required by state law. Plants of a grade less than that specified in the article titled HORTICULTURE STANDARDS will not be accepted.

Part 2.00 Non-Plant Materials

2.01 SOIL BACKFILL

A. Soil for backfilling planting areas and plant pits shall be the existing surface soil, free from subsoil, objectionable weeds, litter, rocks, stiff clay, stones, stumps, roots, trash, toxic substances, mortar, cement or any other material which may be harmful to plant growth or hinder planting operations. Poorly drained soil shall not be used.

B. Soil amendments shall be added to the soil in the amount and manner prescribed by soil analysis to obtain a pH of 5.5 to 6.5. Results from soil analysis and a list of the prescribed amendments shall be presented to the owner and verified by the landscape architect prior to being incorporated into the soil.

C. If additional soil is required; it shall be furnished by the contractor and shall be a natural, friable soil representative of productive, well-drained soils in the vicinity. It shall be obtained from well drained areas which have never been stripped before and shall be free of admixture of subsoil and foreign matter, stones, toxic substances and any material or substance that may be harmful to plant growth.

D. The contractor shall provide the following information on imported topsoil:

1. Specific location of soil to be used (if or was) stripped.

2. Present owner of that property.

3. Approximate amount of topsoil available.

4. Test results showing soil analysis and analysis.

E. Soil test shall be performed by a qualified soils laboratory, in accordance with "Methods of Soil Analysis - Agronomy 9" as published by the American Society of Agronomy and shall be performed at the Contractor's expense.

F. Planting soil backfill for raised architectural planters, if applicable, shall consist of 40% potting soil, 40% coarse washed builders sand and 20% horticultural perlite.

G. Areas designated to be planted with flowering annuals, if applicable, shall be excavated to a depth of 8" and backfilled with a mixture consisting of 40% peat, 40% D.O.T. (coarse) sand, 10% pine bark (decomposed) and 10% express chips.

H. Planting soil backfill for tree wells, if applicable, shall be 2/3 approved topsoil and 1/3 coarse washed builder's sand.

2.02 FERTILIZER

A. Commercial fertilizer shall be 14-14-14 formulation of Osmocote brand, 3-4 month release of which 60% of the nitrogen is in urea-formaldehyde form and shall conform to the applicable state fertilizer laws. Fertilizer shall be uniform in composition, dry and free flowing.

2.03 DOLOMITE LIMESTONE

A. Dolomite limestone shall be a natural limestone, designated for agricultural use, shall contain not less than 10% calcium and 10% magnesium and shall be ground so that 50% will pass a 100 mesh sieve and 50% will pass a 20 mesh sieve.

2.04 PRE-EMERGENCE WEED CONTROL

A. Weed control shall be Ronstar 20 as manufactured by Rhodia, Inc., Monmouth Junction, New Jersey 08852 or Princap (Simazine) as manufactured by Gely Agricultural Chemicals, Cranford, New York 10502, or an approved equal.

2.05 WATER

A. Water will be available for use on site during the landscape installation at no cost to the contractor. Care shall be exercised to assure that water is kept free of harmful chemicals, acids, alkalis, or any substance, which might be harmful to plant growth.

2.06 ANTIDISCANT

A. Antidiscantant shall be an emulsion type; film-forming agent designed to permit transpiration, but retard excessive loss of moisture from plants, such as Dowex by Dow Chemical Co., or Wilt-Pruf by Nursery Specialty Products, Inc., or an acceptable equal. The antidiscantant shall be delivered in the manufacturer's fully identified containers and shall be mixed in accordance with manufacturer's instructions.

2.07 BORICIDE

A. Boricicle shall be Lindane as manufactured by Platt, or an approved equal.

2.08 MULCH

A. All mulch around building pad shall be stone, 3" deep. See plan for size, color and limits of stone mulch. Install a weed barrier under stone, and submit a stone sample to owner.

2.09 GUYING AND STAKING MATERIAL

A. Stakes for supporting trees shall be as detailed on the drawings. Wire for fastening trees to duckbill and turnbuckle shall be galvanized aircraft grade guying cable as specified in the detail. Wires in contact with trees shall be encased in two-ply reinforced garden hose. Material for wrapping tree trunks shall be burlap, heavy crepe paper, or other acceptable material in strips 6 to 10 inches wide.

2.10 DRAINAGE GRAVEL

A. Where indicated on the drawings, or where soil conditions deem it necessary, the contractor shall install gravel subdrains beneath trees and/or planting areas to aid in soil drainage and percolation. The subdrain shall be constructed as detailed on the drawings, or as directed by the landscape architect. Drainage gravel shall consist of washed, clean gravel 3/4 inch to 2 inches in size.

2.11 SOIL SEPARATION MATS

A. Soil separation mats shall be indicated on the drawings, shall be Blidin (gray felt) as manufactured by Monsanto Co., 800 North Lindbergh Road, St. Louis, MO 63166 or approved equal. Mats shall be installed as indicated on the drawings, and edges overlapped a minimum of 4 inches. Gore shall be taken to prevent tearing or excessive crushing during the installation process.

Part 3.00 Plant Material

3.01 QUALITY OF PLANT MATERIAL

A. During inspection, as set forth hereinafter, all plant material will be judged, and rejections shall be based upon these standards. All plants shall comply with federal and state law requiring inspection for plant diseases and infestations. Inspection certificates required by law shall be made available to the owner or owner's representative at his/her request.

B. In determining the quality of plant material, the following elements will be valued:

1. Determining the quality of plant material, the following elements will be valued:

2. Plant size (above ground).

3. Insect and disease free condition.

4. General appearance (color, shape, pruning).

5. A deficiency in one or more of these areas will be sufficient reason to reject selectively or by lot.

6. The inspector shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications. Such rejected material shall be removed from the site for disposal at the contractor's expense in its place.

3.02 SIZE AND MEASUREMENTS

A. Plants shall be measured when branches are in their normal position. Heights and spread dimensions specified refer to the main body of the plant and not to extreme branch tips. The measurement of plants shall be the minimum size acceptable and where pruning is required, these are measurements after pruning. When sizes are indicated as a range, the plant shall have the proper proportion as outlined in Department of Agriculture, Grades and Standards for Nursery Plants Part 1 and 11. Caliper of trees shall be taken 36 inches above the ground level and shall be the determining measurement for trees.

B. Plants, which have been headed back to conform to the size specified, will not be acceptable. Plants larger than specified may be used if approved by the owner; however, the use of such plants shall not increase the contract price.

3.03 LABEL

A. Plant materials shall have durable, legible labels stating, in weather resistant ink, the correct botanical and common names and size as indicated in the Plant List. Each plant, or sufficient representative samples of each delivered to the owner, shall have labels securely attached in a fashion that will not interfere with normal plant growth. Plant materials which have (or will have) a seasonal bloom shall be tagged with labels indicating the specific variety of that species' botanical and common name.

3.04 BALLED & BURLAPPED, WIRE BALLED, BURLAPPED PLANTS

A. Plants of sizes shall be of a diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant after planting. All balls shall be firm, shall not be broken or cracked and shall be wrapped and securely tied with heavy twine or wire. All trees shall be root pruned a minimum of 6 weeks before delivery. When the tree is root pruned, the tree crown shall be selectively thinned to reduce the volume of the crown, shall consist of thinning and shaping only. Care shall be taken to assure that the plant form will not be distorted and will remain typical of the species growth characteristics.

B. Plants designated B or WB in the Plant List shall be adequately balled with firm, root ball in sizes of at least equal to those set forth in ANSI Z60.1-1996. Balls shall be firmly wrapped with jute burlap or equivalent cloth capable of rotting in the ground. No balled plant shall be grade No. 1 or better if the ball is cracked, mudcracked or broken either before or during the process of planting. Trees grown in grow bags shall not be acceptable. Synthetic strings, straps, and burlap material used to properly removed from the root ball, and synthetic burlap is to be totally removed from the root ball.

3.05 COLLECTED PLANTS

A. All plant material (except Wax Myrtles and Sabal Palms) shall be nursery grown. Collected plants shall have been grown under climatic conditions similar to those of the locality of the project. All collected plants shall meet the requirements as specified and shall meet all specified grades and standards, unless otherwise qualified in the Plant List and these specifications. Root balls shall be increased in size one third greater than nursery grown plants.

3.06 CONTAINERIZED PLANTS

A. All container grown plants shall be well rooted and established in the container in which they are delivered to the site. The plants shall have been in that container sufficiently long for the fibrous roots to hold the soil together when the plant is removed from the container. Plants designated B or WB shall be container grown and shall be balled and burlapped provided they conform to the size and quality required and that the requirements for balled and burlapped plants are met. Container grown plants found to be root-bound during planting will not be acceptable. Containerized trees have a tendency to dry out quickly. The contractor shall be responsible for hand watering the trees at time of delivery through the time of final acceptance at a rate consistent with the nursery watering schedule to assure that the tree does not go into shock.

3.07 SPECIMEN PLANTS

A. After receiving the Notice to Proceed, the contractor shall locate all plants specified as specimen. The contractor shall notify the owner so they may agree on a time to mutually inspect the selected plants. The owner will inspect and tag those plants, which are acceptable for use. Expenses incurred by the owner for any subsequent inspection of specimen plants, at any time, in addition to the mutually agreed time shall be the responsibility of the contractor.

3.08 PALMS (if required)

A. Palms, except cabbage palms and unless otherwise indicated, shall be burlapped. Buds of palms shall be tied and supported in an upright position in accordance with the guidelines of Department of Agriculture, Grades and Standards for Nursery Plants, Part 11, Palms and Trees.

B. Special care shall be applied to the handling and planting of palms.

C. Test results showing soil analysis and analysis.

D. Soil test shall be performed by a qualified soils laboratory, in accordance with "Methods of Soil Analysis - Agronomy 9" as published by the American Society of Agronomy and shall be performed at the Contractor's expense.

F. Planting soil backfill for raised architectural planters, if applicable, shall consist of 40% potting soil, 40% coarse washed builders sand and 20% horticultural perlite.

G. Areas designated to be planted with flowering annuals, if applicable, shall be excavated to a depth of 8" and backfilled with a mixture consisting of 40% peat, 40% D.O.T. (coarse) sand, 10% pine bark (decomposed) and 10% express chips.

H. Planting soil backfill for tree wells, if applicable, shall be 2/3 approved topsoil and 1/3 coarse washed builder's sand.

3.09 SUBSTITUTIONS

A. The use of materials differing in kind, quality or size from those specified will be allowed only after the owner is convinced that all means of obtaining the specified materials have been exhausted.

B. Where it is indicated that the contractor may furnish or use a substitute that is equal to the material or equipment specified and if the contractor is to furnish or use a proposed substitute, he shall, after the award of the contract, make written application to the owner for acceptance of such a substitute. The substituted product or method shall be equal or superior in all respects to the specified product or method, shall perform adequately the duties imposed by the general design, shall be compatible with all other elements and shall be of equal or better quality and quantity. No substitution shall be ordered or installed without the written permission of the owner and governing municipality.

Part 4.00 Delivery, Storage and Handling

4.01 PLANT MATERIAL

A. The contractor shall exercise care in handling, loading and unloading, storage and delivery of all plant material and allied materials to prevent damage. The contractor shall assume full responsibility for protection and safekeeping of products stored in the plant nursery.

B. The contractor shall dig and prepare B and WB B plant material for shipment in a manner that will not damage roots, branches, shape and structure, and shall be protected after planting.

C. Trees indicated on the plans as WB B and those where size, soil conditions and distance of transport to the site would warrant, shall be wireballed. Bottom wired trucks manufactured specifically for use in tree handling may be used.

D. The contractor shall handle all plants so that roots and branches are protected at all times from drying out, heating and from other injury. All plants shall be handled by the ball or container.

E. Plants indicated on the plans as B and WB B shall be stored in the nursery and shall be thoroughly sprayed with a solution of antidiscantant. Antidiscantant shall be applied to all collected plants, oaks and myrtles. Two weeks after planting or as specified by the product manufacturer, the material shall be sprayed again with the antidiscantant. The antidiscantant shall be stems, twigs and foliage.

F. When transporting plants to and at the site, the contractor shall make provisions to protect plants from wind damage by avoiding high-speed highways, transporting in enclosed or partially enclosed vehicles, or covering the plants with burlap or other suitable material. Plants severely damaged by wind will be rejected.

G. Any plant with signs of insects, their eggs or larvae or disease will be rejected and shall be removed from the project site.

H. Only the nursery stock intended for planting on a particular day shall be delivered and stored on the site during the day unless otherwise acceptable to the owner. Plants intended for planting shall be stored in one location and the owner, protected from wind and kept moist. The roots of all plants that cannot be planted immediately in soil shall be covered with mulch and other suitable material. No plants shall be taken from the temporary storage area for planting on the project until after the tree pits or holes for the plants in the landscape have been properly excavated and prepared ready to receive the trees and shrubs.

I. Trees moved by truck or crane shall be thoroughly protected from chain marks and damage to bark slippage by means of burlap, wood battens or other acceptable method.

4.02 NONPLANT MATERIAL

A. Fertilizer shall be delivered to the site in original, unopened containers bearing manufacturer's guaranteed chemical analysis, name, trade name, trademark and conformance to state law. In lieu of containers and provided that it is to be applied at the time of delivery, fertilizer may be furnished in bulk and a certificate indicating the above information shall accompany each delivery.

B. Pesticide and herbicide materials shall be delivered to the site in original, unopened containers. Containers that do not have a legible label that identifies the Environmental Protection Agency registration number and the manufacturer's registered uses will be rejected.

C. Storage of materials shall be in the area designated for use by the owner. All materials shall be kept in dry storage and away from contaminants.

Part 5.00 Installation

5.01 PREPARATION BEFORE PLANTING

A. The contractor shall verify that all final grades have been established prior to beginning planting operations. All unsatisfactory grading shall be reported to the owner, and the contractor shall not proceed with this work until the unsatisfactory conditions have been corrected to the satisfaction of the owner. If plant growth are encountered, such as rubble, fill or adverse drainage conditions, the contractor shall notify the owner for directions.

B. Should undesirable existing vegetation be present on the site at the time of installation, the contractor shall prepare the site for planting by use of chemical, mechanical or manual methods. The contractor shall use only mechanical means acceptable to the owner. Care shall be exercised to avoid any misuse of chemicals, which would create detrimental residual conditions. All materials must be used not after final grades, which have been established or cause damage to previously established turf areas.

5.02 SITE PREARATION

A. If so called for by the owner, all plant locations and the areas of all planting beds shall be marked on the ground, for acceptance by the owner, before planting operations begin. The contractor shall stake the location of the center of each tree and point the outline of each shrub and groundcover and the stakes shall be placed in a vertical manner so that they may be viewed and read from one direction. The contractor shall give the owner notice 24 hours prior to the completion staking described herein.

B. The contractor shall verify the location of underground utilities, and irrigation heads and valves, and provide markers or other suitable protection, where necessary, to prevent damage.

5.03 EXCAVATION OF PLANTING AREAS

A. No tree or shrub shall be dug or prepared until their location is acceptable to the owner. Reasonable care shall be exercised to have pits dug and soil prepared prior to moving plants to respective locations for planting to ensure that they will not be unnecessarily exposed to drying elements or to physical damage.

B. Ground balls and root balls shall be excavated for all plants. The depth of all plant pits shall be enough to accommodate the ball or roots and the prepared soil in the bottom of the pit. Diameter of pits for trees shall be at least 12" greater than the ball or root ball.

C. Plant beds and pits shall be tested for proper drainage by filling with water twice succession. Conditions for proper drainage, if necessary, shall be met. Water in 1 hour shall be brought to the attention of the owner. A written proposal and cost estimate for correction of such conditions shall be submitted to the owner for his review and approval.

D. All tree pits curbed planting islands, tree wells, or in areas, in which the soil has been compacted to an undesirable density, shall be excavated to a depth at least two feet greater than the measured depth and diameter of the ball. The minimum depth and diameter of excavation shall be four feet. Soil backfill in areas of undesirable density must meet specification 201-C unsuitable soil to an approved location.

E. In shrub and groundcover beds where soils have been compacted to a density, which is detrimental to plant growth, the contractor shall loosen soils to a depth of 18" minimum to allow root penetration beyond the planting pit.

F. If acceptable for use, existing topsoil in shrub and groundcover beds shall be treated with the specified soil amendments, at rates determined by soil tests. Amendments shall be incorporated into the soil to a depth of 12 inches. Where soil is not acceptable as determined by soil tests, the soil in the entire area shall be removed to a depth of 8 inches and replaced with the specified planting soil.

5.04 PLANTING

A. All plants, except as otherwise specified, shall be centered in their pits, faced for best effect and set plumb for backfilling.

B. Burlap on B&B and WB&B plants shall be removed from top one third of the ball. Burlap shall not be removed from under balls. If the ball is cracked or broken before or during planting process, the plant shall not be removed from the site. All synthetic strings, straps, and wire cages shall be removed from the top of third of the root ball. Synthetic burlap shall be removed completely.

C. Plants shall be removed from cans by cutting two sides of a container with an acceptable can opener. Sides shall not be cut with a spade. Sides of knockout cans shall not be cut. Plastic containers with slanted sides shall not require cutting. Plants shall be removed from the container carefully, without injury or damage to the plant and root system.

D. Bottom of plant boxes shall be removed before planting. Sides of the box shall be removed, without damage to the root ball, after positioning the plant and partially backfilling around it. The contractor shall hand water containerized trees from the time of delivery until the time of the final acceptance at a rate consistent with the nursery conditions from which the trees were obtained. Trees, which go into shock due to insufficient water, may be rejected.

E. Plants shall be set in the center of the pits and shall be plumb and straight and at such a level that the top of the plant will be level with the surrounding grade.

F. Plant holes shall be backfilled with the specified planting mixture placed in layers around the roots or ball. Each layer shall be carefully tamped in place in manner to avoid injury to the roots or ball or disturbing the position of the plant when applied to the soil. The soil shall be compacted and the soil backfilled, the hole shall be filled with water and the soil allowed to settle around the roots. Balled and burlapped plants shall have the burlap cut away or folded back from the top of the ball before applying water. After the water has been absorbed, the plant hole shall be filled and tamped lightly to grade. Any subsequent settlement shall be brought to grade.

G. Immediately after each tree pit is backfilled, a shallow basin slightly larger than the pit shall be formed with a ridge of topsoil to facilitate watering. This soil formation shall be made by hand. No substitution shall be made so that the soil will retain water. Where curbing occurs around plant pits, the saucer shall be omitted.

H. The contractor shall include adding a water retentive additive Terra-Sorb AG for all shrubs, groundcovers, annuals and trees at the manufacturers recommended rate.

I. DIPA Polyform, Exterior B-B, edge sealed.

1. Plastic Fiber: Specific brand of molded fiber, if required.

2. Corboard: Beam void forms "VOIDCO" or equal, as required under pier supported beams.

3. Metal: Commercial standard, or as noted on drawings.

5.05 FERTILIZING

A. Each tree and shrub shall be fertilized by placing the manufacturer's recommended amount around the base of the ball before backfilling.

5.06 STAKING, GUYING AND WRAPPING

A. Staking or guying and wrapping of trees shall be done immediately after they are planted. Each plant shall stand plumb after staking or guying has been completed. It shall be the Contractor's responsibility to ensure that all trees are plumb and secure after planting. Staking of trees of a 10 foot height flagging tape approximately 12" in length shall be securely tied to each guy wire immediately above the turnbuckles.

B. Immediately after planting, trees shall be staked and guyed for support. "Duck collars" earth girths shall be indicated shall be placed on sides branch tree, and shall be driven into undisturbed ground to a depth deep enough to sufficiently secure the tree. Care shall be taken when driving anchors to avoid damaging the tree roots. Except as otherwise indicated or directed, the tree shall be fastened to each anchor as indicated on the plans. The wind shall be enclosed in hose at the tree to prevent direct contact with the bark and shall be placed around the trunk in a single loop. Wires shall be tightened and kept taut by twisting the turnbuckle. A brightly colored flagging tape approximately 12" in length shall be securely tied to each guy wire immediately above the turnbuckles.

C. If planted while void of foliage, the trunks of all deciduous trees shall be wrapped spirally from bottom to top, and shall be securely tied with cord at top and bottom and at 2 foot intervals along the trunk. The wrapping shall overlap and entirely cover the trunk from the ground to the height of the second branches and shall be next and strong. Overlap of wrapping material shall be approximately 2 inches. Trees shall be inspected for injury to trunks, evidence of insect infestation and improper pruning before wrapping.

5.07 MULCHING

A. Immediately after planting operations are completed, all tree and shrub saucers, and shrub and groundcover beds outside of the building pad shall be covered with a 2 to 2 1/2 inch layer of shredded cypress bark. Limits of the mulch shall be as indicated on the drawings.

5.08 PRUNING

A. Each tree and shrub shall be pruned in accordance with standard horticultural practice to preserve the natural character of the plant and in the manner and to the extent specified on the drawings. Pruning shall be done with clean, sharp tools and as indicated on the drawings.

B. Approximately one third of the growth of large deciduous trees (those with 2 inch caliper or larger) shall be removed. Main leaders of trees shall be thinned out and not merely cut back. Long side branches may be shortened. Shrubbery with extremely heavy tops shall have one fourth to one third of the weaker growth removed by thinning.

5.09 CLEANUP

A. During the course of planting, excess and waste materials shall be continuously and promptly removed and stored in a clean and all reasonable precautions taken to avoid damage to existing structures, plants and grass. After completion of the work, the entire site shall be cleared of excess soils, waste materials, debris and all objects that may hinder maintenance and affect the visual appearance of the site.

B. The Contractor shall remove all plants resulting from removal, vandalism, acts of neglect on the part of others, or acts of God. All replacement material shall have the same guarantee time (1 year from installation of replacement material) as the material being replaced.

C. Planting maintenance shall include all necessary watering, cultivation, weeding, pruning and spraying, wrapping and mulching, straightening of plants which are damaged or bent, and all other maintenance necessary to maintain the same adjustments to include excavating around and leveling or raising the soil when so directed and all other incidental work necessary for proper maintenance as directed by the Owner until substantial completion and written release.

D. Transplanted material (if applicable) shall not be guaranteed, however, good horticultural practices should be used before, during and after the material is transplanted. Good horticultural practices should include but not be limited to, all necessary watering, pruning and spraying, wrapping and mulching, fertilizing, moving, maintaining the same orientation and grade level from the original location, and all other incidental work necessary for proper transplantation.

Part 6.00 Guarantees

6.01 GUARANTEED PROVING PERIOD

A. The contractor shall give a guarantee period of 1 year for trees and specimen material and 1 year for shrubs. This guarantee period shall start at the final acceptance date. The contractor shall replace any and all plant material, which die during this guarantee proving period. Replacement of plants necessary during the guarantee period shall be the responsibility of the Contractor, except for possible rejection of the plants resulting from removal, vandalism, acts of neglect on the part of others, or acts of God. All replacement material shall have the same guarantee time (1 year from installation of replacement material) as the material being replaced.

B. Planting maintenance shall include all necessary watering, cultivation, weeding, pruning and spraying, wrapping and mulching, straightening of plants which are damaged or bent, and all other maintenance necessary to maintain the same adjustments to include excavating around and leveling or raising the soil when so directed and all other incidental work necessary for proper maintenance as directed by the Owner until substantial completion and written release.

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6.02 FINAL INSPECTION AND ACCEPTANCE

A. The Contractor shall notify the Owner in writing when the work has been completed in accordance with this Contract and request an inspection. The Owner shall make the inspection of the work and report findings as to acceptability and completeness. Any work remaining to be done shall be subject to respection before final acceptance. The Contractor will be notified in writing by the Owner of the final acceptance of the work.

6.03 CONTRACTOR'S RESPONSIBILITY AFTER ACCEPTANCE

A. The Owner may elect to assume maintenance of all work, at the time of acceptance, or may elect to contract for maintenance by others for a period of 90 days after the final inspection. At that point contact the general manager of the store and determine if the landscape contractor will remain or if yes, contractor will be responsible for the maintenance and warrantee of all landscaping for one full year. If no, the landscape contractor is to walk the site with the general manager, manager, the facilities manager and the new landscape and they shall agree that all planting is in good shape prior to the new landscaper taking over.

6.05 REQUIRED MAINTENANCE

A. Landscape contractor shall be responsible for the maintenance and upkeep for 90 days post the final inspection. At that point contact the general manager of the store and determine if the landscape contractor will remain or if yes, contractor will be responsible for the maintenance and warrantee of all landscaping for one full year. If no, the landscape contractor is to walk the site with the general manager, manager, the facilities manager and the new landscape and they shall agree that all planting is in good shape prior to the new landscaper taking over.

END OF SECTION

DCH 22007

Kimley»Horn

445 24TH STREET, SUITE 200

VERO BEACH, FL 32906

PH: (772) 794-1100

REGISTRY NO. 696

KHA PROJECT # 047916134

THIS SHEET IS PROVIDED FOR
REFERENCE ONLY.

CITY STANDARDS AND
SPECIFICATIONS AS WELL AS NOTES
PROVIDED IN THE CIVIL PLANS
SUPERSEDED SPECIFICATIONS
SHOWN HERE.

Scratch Kitchen

Issue Date: 2/15/2023

REVISION INFORMATION

Restaurant #: 21K0037

CHEDDAR'S
SCRATCH KITCHEN
RIVERVIEW

PROTOTYPE 18

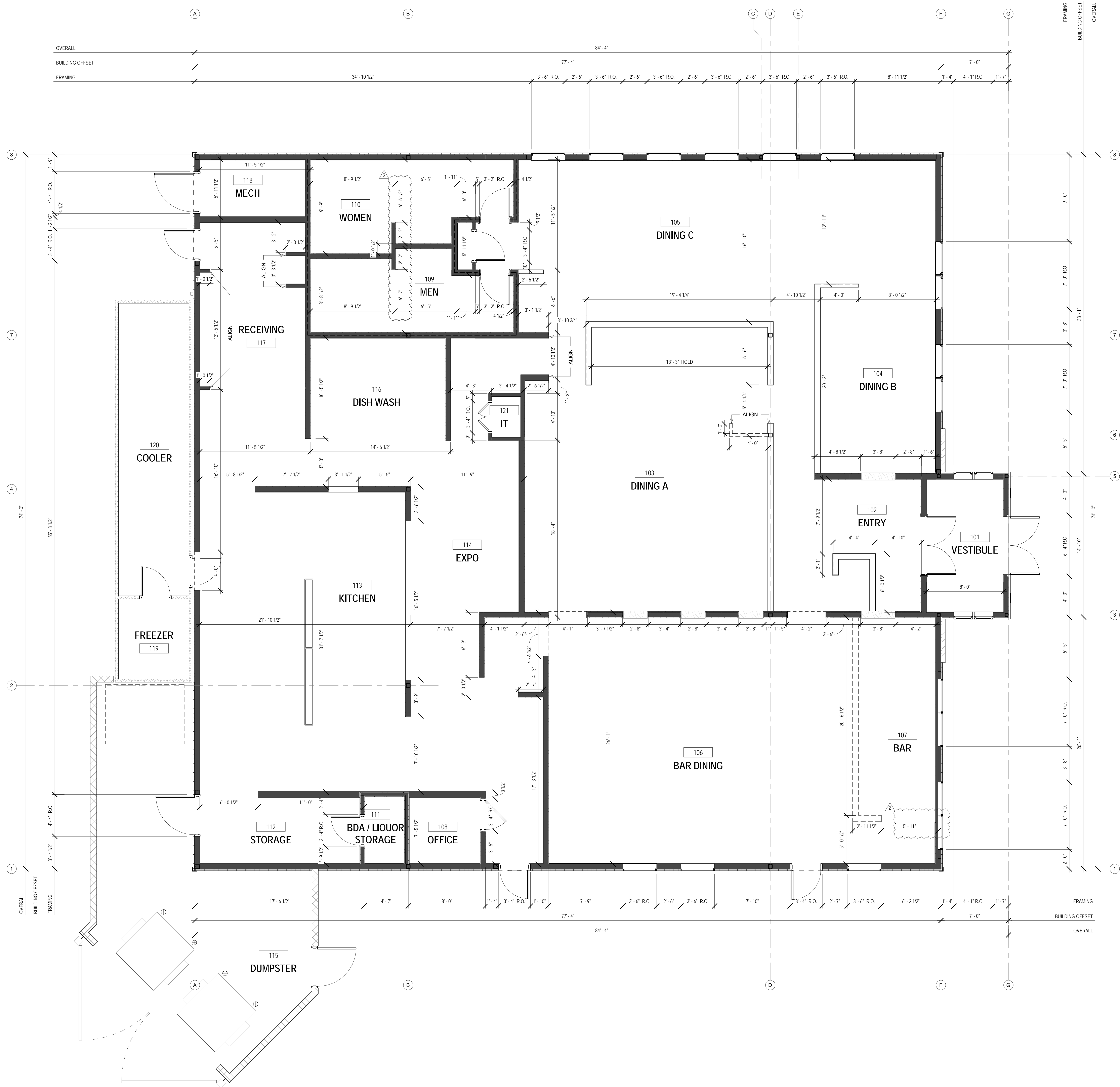
HILLSBOROUGH CNTY FLORIDA

DRAWING

DARDEN LANDSCAPE
AND IRRIGATION
SPECIFICATIONS

LS1

FOR INFORMATIONAL
PURPOSES ONLY

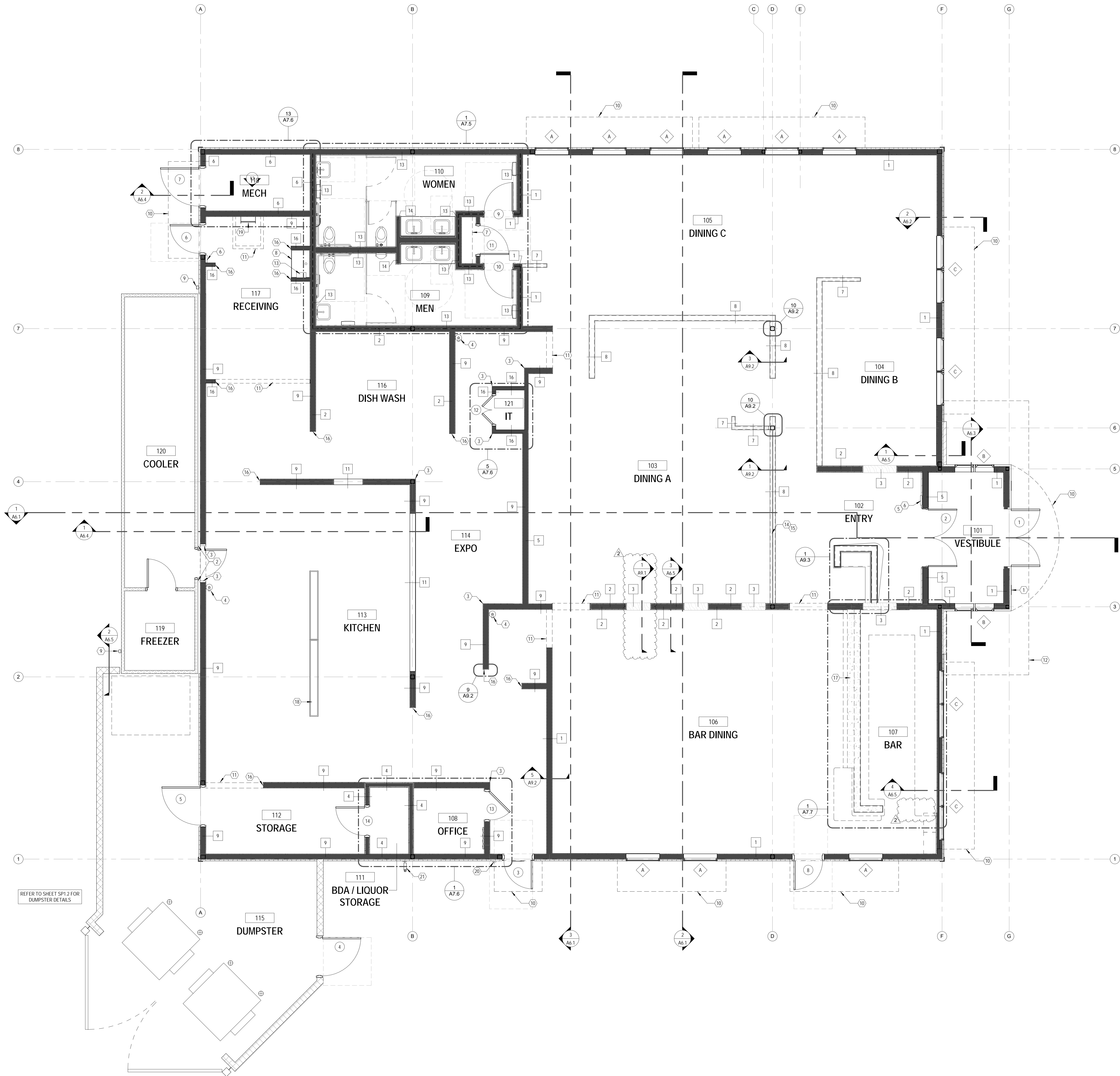


GENERAL NOTES - DIMENSIONED PLAN

A	ALL DIMENSIONS ARE SHOWN TO FACE OF STUD WALL UNLESS NOTED OTHERWISE.
B	REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.
C	WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS.

WALL LEGEND PLAN VIEW

	FULL HEIGHT WALLS
	PARTIAL HEIGHT WALLS
	COOLER/FREEZER WALL BY KEC
	FULL HEIGHT WALL WITH ACOUSTICAL BATT INSULATION. REFERENCE SPECIFICATIONS.



- GENERAL NOTES - NOTED FLOOR PLAN**
- A ALL DIMENSIONS ARE SHOWN TO FACE OF STUD WALL UNLESS NOTED OTHERWISE
 - B REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES
 - C WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS
 - D REFER TO MILLWORK DRAWINGS FOR LOCATION AND INFORMATION
 - E REFER TO WALL TYPE SCHEDULE IN THIS SHEET FOR ALL NEW WALLS
 - F ALL WALLS IN KITCHEN, STORAGE AND OFFICE TO RECEIVE FRP OVER DESIGNATED WALL TYPE. REFER TO WALL SCHEDULE IN THIS SHEET
 - G REFER TO SHEETS A7.1 - A7.5 FOR ALL INTERIOR ELEVATIONS AND TAGS
 - H REFER TO FS-3.10 SHEET FOR WALL BACKING LOCATIONS
- KEYNOTES - A1.2**
- 1 KNOX BOX, MOUNT NO LOWER THAN 5'-0" AND NO HIGHER THAN 6'-0" A.F.F., VERIFY FINAL LOCATION WITH FIRE MARSHAL PRIOR TO INSTALL
 - 2 STAINLESS STEEL CLOSURE STRIP TO SEAL COOLER/FREEZER TO WALL, RE: KITCHEN
 - 3 STAINLESS STEEL CORNER GUARD BY KITCHEN EQUIPMENT SUPPLIER, G.C. TO COORDINATE INSTALLATION, RE: 9/A9.2
 - 4 FIRE EXTINGUISHER, VERIFY FINAL LOCATION WITH FIRE MARSHAL PRIOR TO INSTALL, PROVIDE 4-A8C AND 4-K TYPE
 - 5 OCCUPANCY LOAD SIGN, VERIFY LOCATION WITH FIRE MARSHAL PRIOR TO INSTALL
 - 6 TACTILE EXIT ROUTE SIGN, VERIFY FINAL LOCATION AND WORDING WITH FIRE MARSHAL PRIOR TO INSTALL
 - 7 SHELING, RE: 11/A9.2
 - 8 MOP SINK, RE: 18/A9.4
 - 9 3/5 PREFINISHED DOWNSPOUT, STRAIGHT TO UNDERGROUND, SMOOTH, NOT FLUTED, PROVIDE TRANSITION BOOT AT BELOW WALKGRADE SURFACE
 - 10 LINE OF AWNING ABOVE
 - 11 LINE OF HEADER ABOVE
 - 12 LINE OF ROOF OVERHANG ABOVE
 - 13 EYE WASH STATION
 - 14 TEMPERED GLASS SET ON LOW WALL, RE: 1/A9.2
 - 15 INSTALL FRAME FOR FUTURE INSTALLATION OF GLAZING, RE: INTERIOR ELEVATIONS
 - 16 STAINLESS STEEL WALL CAP, RE: 9/A9.2
 - 17 BASED CONCRETE CURB, CHAMFER ALL OUTSIDE CORNERS TYPICAL, RE: STRUCTURAL FOR ADDITIONAL INFORMATION
 - 18 PRE-FAB KITCHEN CHASE, RE: FOOD SERVICE
 - 19 ROOF ACCESS LADDER, RE: A7.6
 - 20 CREDENTIAL READER, RE: SECURITY SHOP DRAWINGS
 - 21 SURVEILLANCE CAMERA, RE: SECURITY SHOP DRAWINGS

WALL LEGEND PLAN VIEW

	FULL HEIGHT WALLS
	PARTIAL HEIGHT WALLS
	COOLER/FREEZER WALL BY KEC
	FULL HEIGHT WALL WITH ACOUSTICAL BATT INSULATION, REFERENCE SPECIFICATIONS.

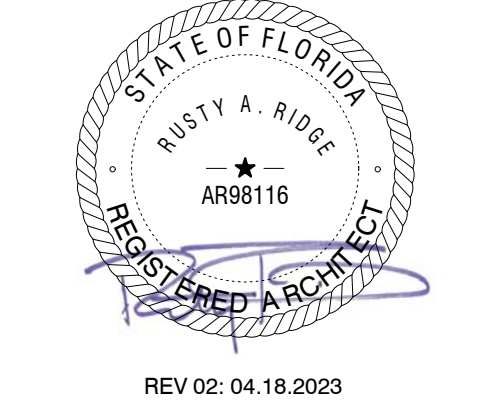
WALL TYPE SCHEDULE

MATERIALS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FRAMING																	
2x4 METAL STUDS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2x6 METAL STUDS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LOW WALL																	
5/8" CEMENT BOARD TO 12" A.F.F.																	
5/8" CEMENT BOARD BEHIND TILE																	
5/8" CEMENT BOARD																	
5/8" GYPSUM BOARD																	
5/8" MOLD AND WATER RESIST. DRYWALL																	
5/8" PLYWOOD WAINSCOT																	
5/8" PLYWOOD																	
2 LAYERS 5/8" TYPE X GYPSUM BOARD																	
2 LAYERS 5/8" TYPE X GYPSUM BOARD																	

idstudio⁴

6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75039
TEL: 972.870.1288
WWW.IDSTUDIO4.COM
PROJECT NUMBER
DCH22007

CLIENT:
DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION
1 04.04.2023
CITY COMMENTS
2 04.05.2023
COORDINATION COMMENTS

Restaurant #: 21K0037

**CHEDDARS
SCRATCH KITCHEN**
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

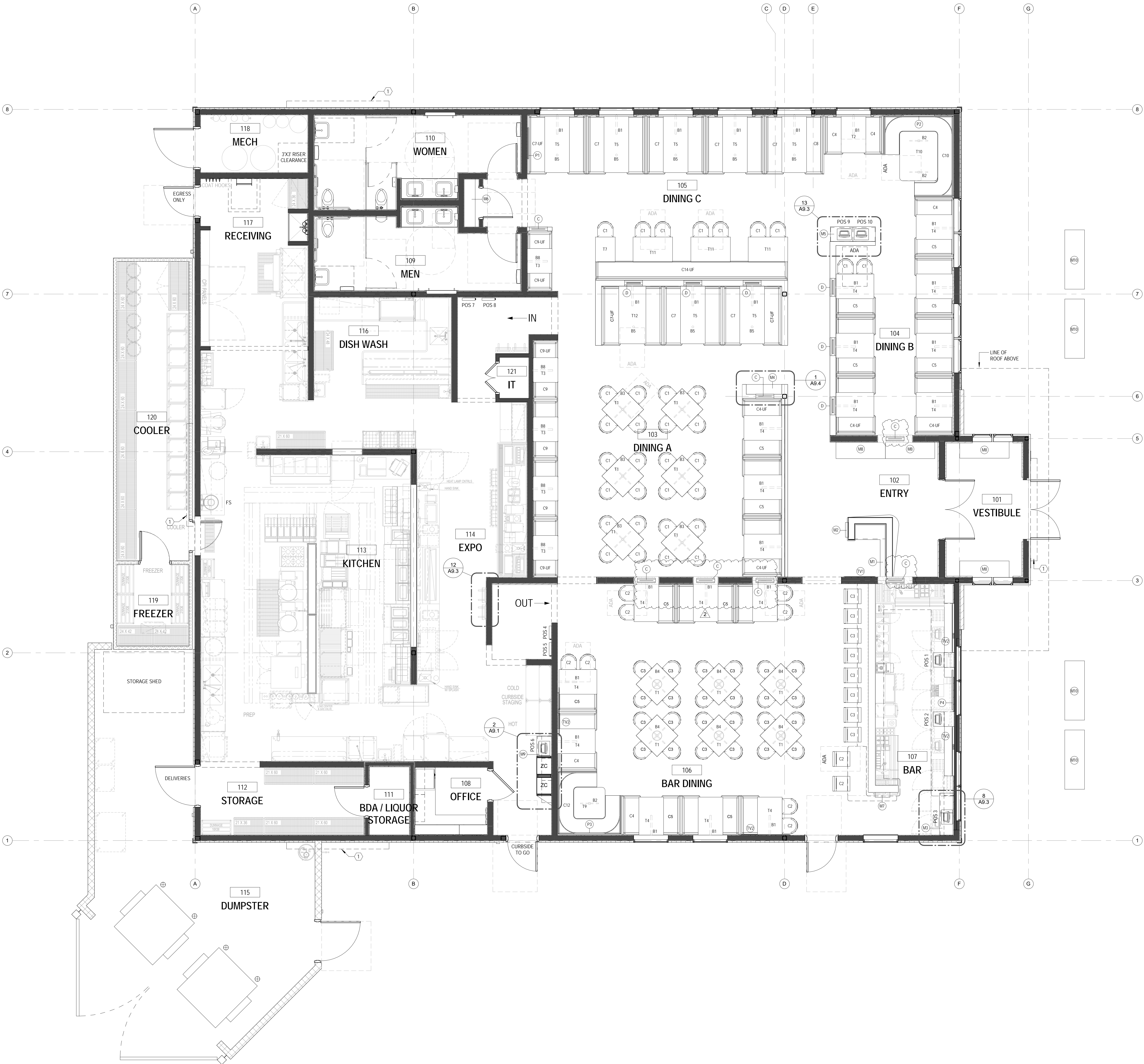
RIVERVIEW, FL

Drawing:
**NOTED FLOOR
PLAN**

A1.2



GENERAL NOTES	
A	ALL DIMENSIONS ARE SHOWN TO FACE OF BLOCK OR STUD UNLESS NOTED OTHERWISE.
B	REFER TO FINISH SCHEDULE PLAN AND ELEVATIONS FOR APPLIED FINISHES.
C	WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS.
D	REFER TO PLUMBING PLANS FOR ALL FLOOR DRAINS, FLOOR SINKS AND TRENCH DRAINS.
E	REFER TO STRUCTURAL FOR SLAB SLOPE PLAN
# KEY NOTES:	
1	ALUMINUM THRESHOLD, MAX. 1/2" TRANSITION, SET IN FULL BED MASTIC
2	TRENCH DRAIN, FLOOR SINK OR FLOOR DRAIN, RE: PLUMBING
3	START POINT FOR TILE PATTERN
4	RAISED CONCRETE CURB, RE: STRUCTURAL
5	WATERPROOF MEMBRANE, RE: 15/A9.4
6	T-MOLD TRANSITION STRIP
7	RECESSED MOP SINK, RE: 18/A9.4
8	BUMP TILE THRESHOLD, RE: 17/A9.4
9	PROVIDE SLOPE IN SLAB, RE: STRUCTURAL
10	ENTRY ROLL MAT
11	LINE INDICATES TILE TRANSITION FROM DOUBLE ABRASIVE TO SINGLE ABRASIVE
FLOOR FINISH LEGEND	
	MINERAL CHROM BLACK (12x24) F-1
	MINERAL CHROM BLACK F-2
	RESIDE BLACK GRIP (12x24) F-3
	PIETRA ITALIA GREY GRIP (12x12) F-4
	SINGLE ABRASIVE QUARRY TILE (6x6) F-5
	CARPET FLOORING F-6
	ROLL MAT OVER EXPOSED CONCRETE F-7
	SEALED CONCRETE F-8
	DOUBLE ABRASIVE QUARRY TILE (6x6) F-9



BUILDING DATA		
GROSS BUILDING AREA		5,827 SQ.FT.
COOLER / FREEZER		315 SQ.FT.
DUMPSTER ENCLOSURE		590 SQ.FT.
TOTAL		6,732 SQ.FT.
SEATING COUNT		
TYPE	COUNT	TOTAL
2 TOP BOOTH x	5	10
4 TOP BOOTH x	19	76
6 TOP BOOTH x	8	48
6 TOP ROUND x	1	6
BARSTOOL CHAIRS x	1	10
8 TOP ROUND x	1	8
4 TOP TABLE x	12	48
4 TOP BANQUETTE x	3	12
2 TOP BANQUETTE x	1	2
TOTAL DINING:	50	220
GENERAL NOTES - FURNISHING		
A	ALL DIMENSIONS ARE SHOWN TO FACE OF STUD WALL UNLESS NOTED OTHERWISE.	
B	REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.	
C	WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS.	
D	REFER TO MILLWORK DRAWINGS FOR LOCATION AND INFORMATION.	
E	UNLOAD AND INSTALL TABLES AND CHAIRS.	
F	PROVIDE A DOOR STOP 18" AWAY FROM DOOR TO PROVIDE A 110" SWING. DOOR STOP TO MATCH ALL OTHER DOORS.	
FURNISHING NOTES		
1	EXTERIOR SIGNAGE BY OWNER, G.C. TO COORDINATE FINAL LOCATIONS AND MOUNTING REQUIREMENTS WITH SIGNAGE VENDOR. RE: EXTERIOR ELEVATIONS FOR HEIGHTS	
FURNITURE SCHEDULE		
TAG	SIZE	DESCRIPTION
TABLE TOP		
T1	30X36	DINING TABLE
T2	33X50	DINING TABLE
T3	30X32	BOOTH TABLE
T4	30X50	BOOTH TABLE
T5	30X74	BOOTH TABLE
T7	24X30	DINING TABLE
T9	30X36	BOOTH TABLE
T10	46X60	DINING TABLE
T11	48X30	DINING TABLE
T12	33X74	BOOTH TABLE
SEATING		
B	LOOSE SEATING	BOOSTER SEAT
C1	LOOSE SEATING	DINING CHAIR
C2	LOOSE SEATING	BAR CHAIRS
C3	LOOSE SEATING	BAR STOOL
C4	48" LENGTH	SINGLE BOOTH UNFINISHED BACK
C4-UF	48" LENGTH	SINGLE BOOTH UNFINISHED BACK
C5	48" LENGTH	DOUBLE BOOTH
C7	72" LENGTH	DOUBLE BOOTH
C7-UF	72" LENGTH	SINGLE BOOTH UNFINISHED BACK
C8	72" LENGTH	SINGLE BOOTH UNFINISHED BACK
C9	30" LENGTH	DOUBLE BOOTH
C9-UF	30" LENGTH	SINGLE BOOTH UNFINISHED BACK
C10	48"X96"X80"X54"	BOOTH
C11	48"X96"X72"X48"	BOOTH
C12	45"X72"X72"X45"	BOOTH
C14-UF	VARIOUS LENGTHS	CUSTOM BANQUETTE BOOTH - UNFINISHED BACK
H	LOOSE SEATING	HIGH CHAIR
BASES		
B1	36" LENGTH	CANTILEVERED BASE. RE: 4/A9.4
B2	BASE TABLE	COMMUNITY
B3	LO-TOP SPIDER	---
B4	HI-TOP SPIDER	---
B5	FIXED LEG	---
B6	48" LENGTH	RE: 4/A9.4
B7	TABLE SUPPORT	(2 PER TABLE)
B8	24" LENGTH	CANTILEVERED BASE. RE: 4/A9.4
MILLWORK SCHEDULE		
M1	HOST STATION. RE: 1/A9.3	
M2	HOST MENU HOLDER. RE: 7/A9.3	
M3	POS STATION 3. RE: 6/A9.3	
M4	STORAGE. RE: 1/A9.4	
M5	POS STATION 9/10. RE: 12/A9.3	
M6	SHELVING. RE: 11/A9.2	
M7	BAR TRAY HOLDER. RE: 7/A7.9	
M8	LOBBY BENCHES. BY OWNER	
M9	POS STATION 6. RE: 13/A9.3	
M10	EXTERIOR WOOD BENCHES. BY OWNER	
MOOD MEDIA SCHEDULE		
TV1	42" TELEVISION	
TV2	45" TELEVISION	
LDF SILK PLANTERS SCHEDULE		
C	ITEM: CHED03: PLANTER SIZE: 8" H X 22" W X 6" D	
D	ITEM: CHED04: PLANTER SIZE: 8" H X 22" W X 6" D	
E	ITEM: CHED05: PLANTER SIZE: 14" H X 30" W X 12" D	
F	ITEM: CHED06: PLANTER SIZE: 14" H X 30" W X 12" D	
PLANT POT NOTES		
1	ALL POTS WILL BE PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR	
2	POTS ARE TO BE PERMANENTLY SECURED WITH EPOXY CONSTRUCTION ADHESIVE. CENTERPIECES ON TABLES ARE NOT TO BE GLUED DOWN	
4	ALL STICKERS AND TAGS ARE TO BE REMOVED FROM POTS AND PLANTS	
5	EXTERIOR FILTER FABRIC IN DRAIN HOLE SECURE TO CONCRETE AND FILL WITH PLAY SAND FOR EXTERIOR POTS 508 (2 TOTAL)	
PUBLIC IMAGERY SCHEDULE		
P1	32x42 FRAMED US FLAG	
P2	32x42 FRAMED STATE FLAG	
P3	40x52 FRAMED POSTER	
P4	48x42 MIRROR	
EQUIPMENT SCHEDULE		
FS	FLOOR SCRUBBER	
ZC	ZIOSK CART	

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6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75039
TEL: 972.870.1288
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PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

STATE OF FLORIDA
JUSTY A. RIFE
REGISTERED ARCHITECT
AR08116
REV 02: 04.18.2023

Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1 04.04.2023
CITY COMMENTS

2 04.05.2023
COORDINATION COMMENTS

Restaurant #: 21K0037

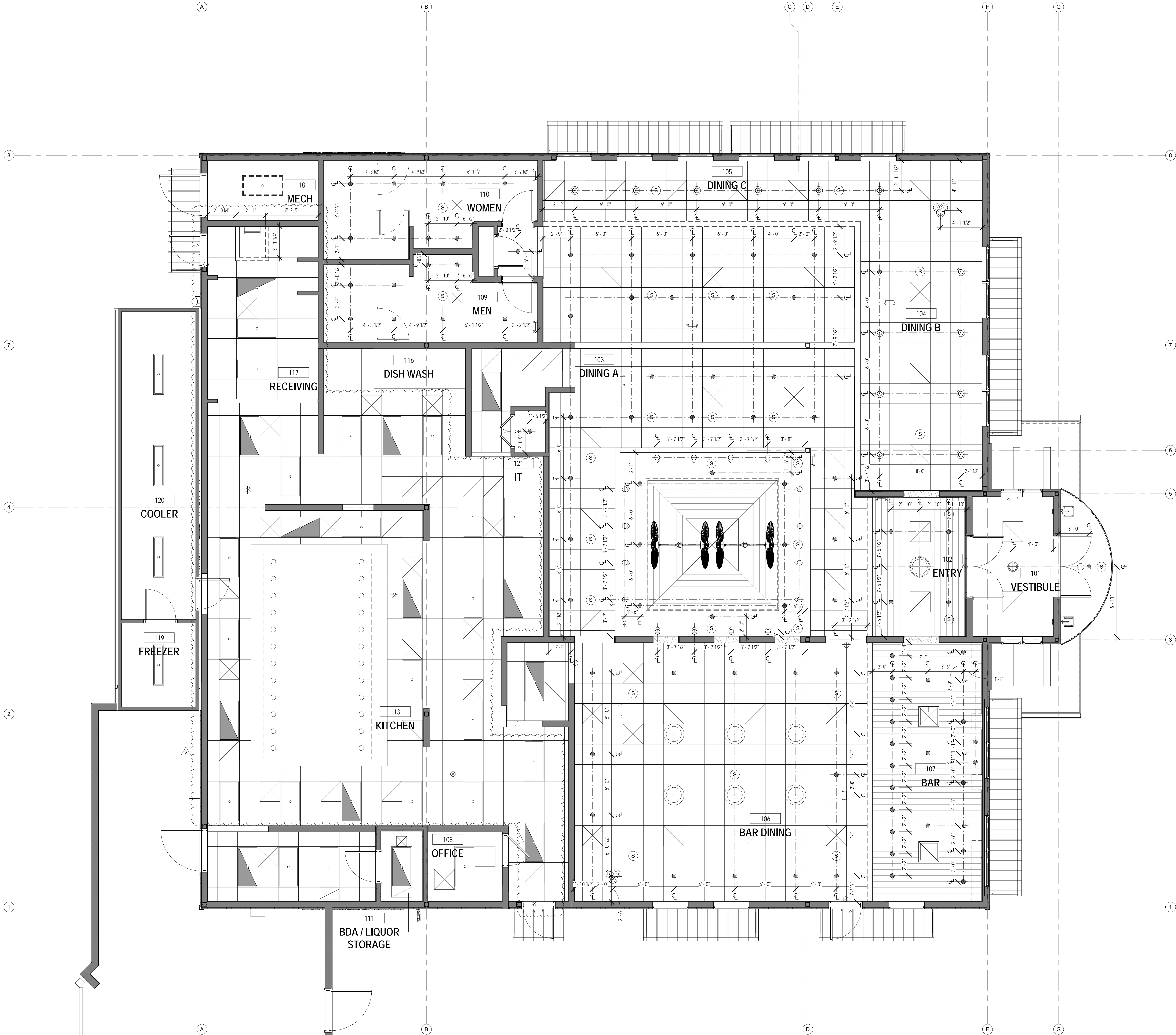
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
FURNISHING PLAN

A1.4



LIGHT FIXTURE LEGEND	
	2x4 LED FIXTURE
	2x4 LED EMERGENCY FIXTURE
	1x4 FLUORESCENT FIXTURE
	RECESSED CAN LIGHTS
	ADJUSTABLE LIGHTS
	WALL MOUNTED LIGHTS
	PENDANT LIGHTS
	PENDANT LIGHTS
	PENDANT LIGHTS
	PENDANT LIGHTS
	EXIT SIGN
	EMERGENCY LIGHT
	EMERGENCY LIGHT
	EMERGENCY LIGHT
	SUPPLY DIFFUSER
	RETURN GRILL
	EXHAUST GRILL
	SPEAKERS, BY MOOD MEDIA
	SPEAKERS, BY MOOD MEDIA

DIMENSIONED CEILING PLAN

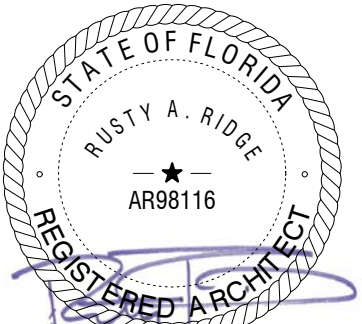
1/4" = 1'-0"

1

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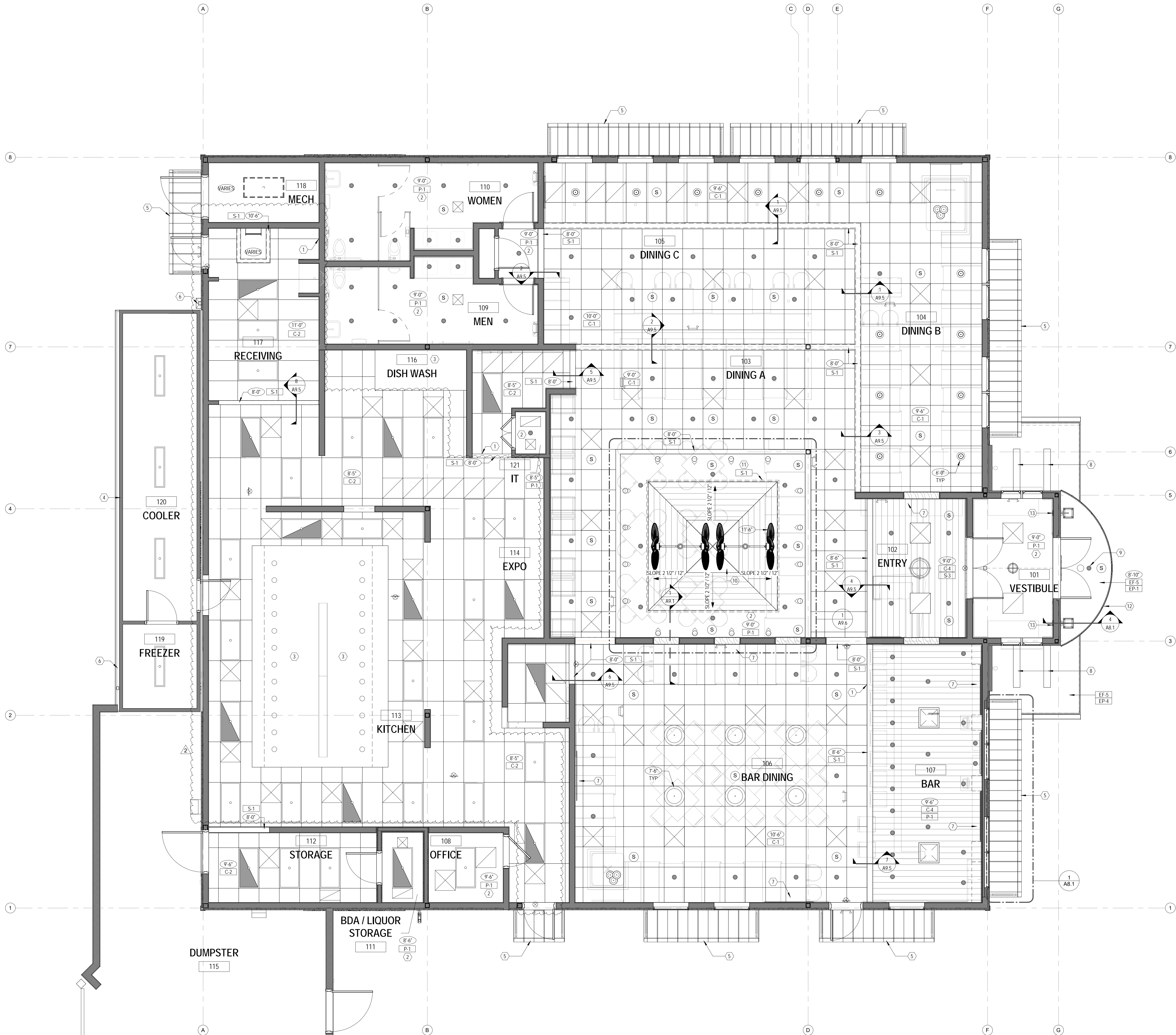
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
DIMENSIONED
CEILING PLAN

A2.1



GENERAL NOTES - CEILING PLAN

- A ALL DIMENSIONS ARE SHOWN TO FACE OF STUD WALL UNLESS NOTED OTHERWISE
- B REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES
- C ALL EXTERIOR SURFACE MOUNTED EMERGENCY FIXTURES TO BE PAINTED TO MATCH ADJACENT WALL FINISHES
- D RECESSED SPRINKLER HEADS IN DINING TO BE FLAT BLACK CONCEALED HEADS
- E REFER TO ELECTRICAL DRAWINGS FOR ALL ELECTRICAL FIXTURES

KEYNOTES - CEILING PLAN

- 1 START CEILING GRID AT THIS LOCATION
- 2 PAINTED GYPSUM BOARD CEILING TO RECEIVE LEVEL 5 FINISH
- 3 EXHAUST HOOD, RE: MECHANICAL
- 4 COOLER AND FREEZER WALLS SHOWN DASHED BY OTHERS
- 5 EXTERIOR AWNING, RE: 2/A8.1
- 6 PREFINISHED GUTTER AND DOWNSPOUT
- 7 TELEVISION MOUNTED TO WALL, RE: 14/A9.4
- 8 ANGLED WOOD BEAM, RE: STRUCTURAL
- 9 RECESSED DOWNLIGHT TO BE INSTALLED ON SOFFIT ABOVE CANOPY
- 10 ATRIUM SKYLIGHT
- 11 1X4 WOOD TRIM
- 12 EXTERIOR CANOPY
- 13 6'X6' ACCESS PANEL, RE: 4/ A8.1

FINISH SCHEDULE - INTERIOR

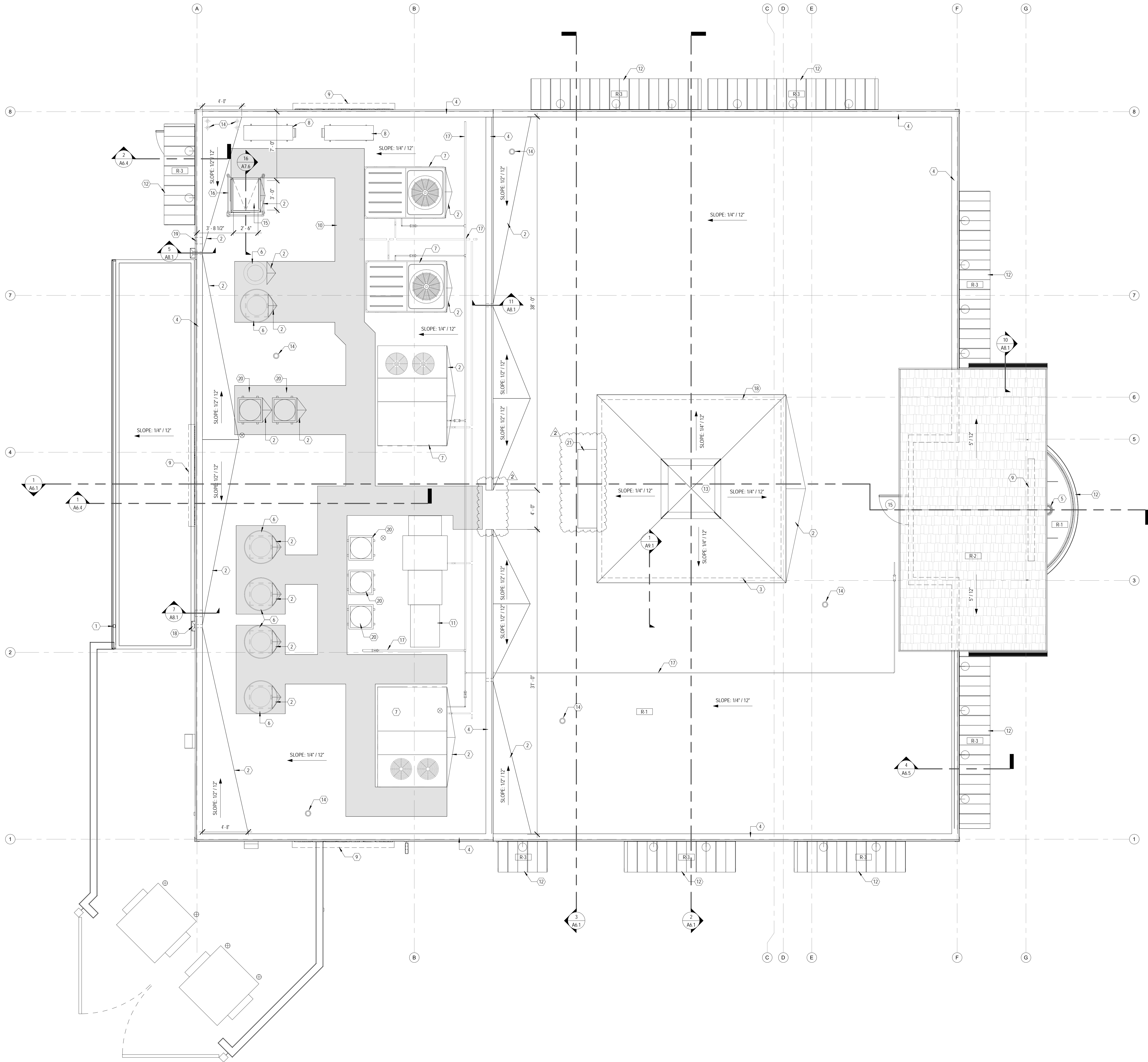
- INTERIOR PAINT
- P-1 TAVERN TAUPE
 - P-2 IBIS WHITE
 - P-3 BLACK OF NIGHT
 - P-4 HALF CAFF
- STAIN
- S-1 EBONY
 - S-2 CLEAR SEALER
 - S-3 FLAGSTONE
 - S-4 BRICK SEALER
- WALL COVERINGS
- WC-1 VINYL FABRIC
 - WC-2 FRP-WHITE
 - WC-3 FRP-BLACK
 - WC-4 WOOD LAMINATE
 - WC-5 PLASTIC LAMINATE-WHITE
 - WC-6 PLASTIC LAMINATE-BLACK
 - WC-7 STONE
 - WC-8 PORCELAIN TILE-CREME
 - WC-9 PORCELAIN TILE-TORTORA
 - WC-10 PORCELAIN TILE-TIGERS EYE
 - WC-11 QUARRY TILE
 - WC-12 WOOD PLANKS
 - WC-13 STAINLESS STEEL PANEL
 - WC-14 THIN BRICK
 - WC-15 WOOD PANEL
- GRANITE
- G-1 GRANITE-JUPARANA ST. CECILIA
 - G-2 GRANITE-BLACK
 - G-3 CORIAN-SAHARA
- BASE
- B-1 PORCELAIN TILE-MINERAL CHROME
 - B-2 QUARRY TILE
 - B-3 PORCELAIN TILE-RESIDE
- CEILING
- C-1 ACOUSTICAL CEILING-BLACK
 - C-2 ACOUSTICAL CEILING-WHITE
 - C-3 NOT USED
 - C-4 V-GROOVE PLANK

FINISH SCHEDULE - EXTERIOR

- EXTERIOR PAINT
- EP-1 ANTIQUE WHITE
 - EP-2 MISSISSIPPI BRONZE ENAMEL
 - EP-3 IBIS WHITE
 - EP-4 CHARWOOD
- STONE
- ST-1 STONE
- EXTERIOR FINISH
- EF-1 MODULAR BRICK
 - EF-2 SPLIT FACE CMU BLOCK - 8" THICK
 - EF-3 NOT USED
 - EF-4 HARDIE PLANK HORIZONTAL LAP SIDING - NAVAJO BEIGE
 - EF-5 PLYWOOD-ROUGH SAWN CEDAR
 - EF-6 HARDIE PLANK HORIZONTAL LAP SIDING - KHAKI BROWN
 - EF-7 STONE SILL
 - EF-8 4" HARDIE TRIM - ARCTIC WHITE
 - EF-9 6" HARDIE TRIM - ARCTIC WHITE
- ROOFING
- R-1 SINGLE PLY ROOF
 - R-2 ARCHITECTURAL COMPOSITION SHINGLES
 - R-3 STANDING SEAM COPPER


LIGHT FIXTURE LEGEND

	2x4 LED FIXTURE
	2x4 LED EMERGENCY FIXTURE
	1x4 FLUORESCENT FIXTURE
	RECESSED CAN LIGHTS
	ADJUSTABLE LIGHTS
	WALL MOUNTED LIGHTS
	PENDANT LIGHTS
	PENDANT LIGHTS
	PENDANT LIGHTS
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	EMERGENCY LIGHT
	SUPPLY DIFFUSER
	RETURN GRILL
	EXHAUST GRILL
	SPEAKERS, BY MOOD MEDIA
	SPEAKERS, BY MOOD MEDIA



GENERAL NOTES - ROOF PLAN	
A	ALL DIMENSIONS ARE SHOWN TO FACE OF STUD WALL UNLESS NOTED OTHERWISE.
B	REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.
C	WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS. WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS.
KEYNOTES - ROOF PLAN	
1	PRE-FINISHED GUTTER AND DOWNSPOUT, RE: 5 AND 6/A8.2
2	CRICKET, MIN 1/2" SLOPE, TYPICAL
3	LINE OF WALL BELOW
4	PREFINISHED METAL SNAP-CAP FLASHING TO MATCH EP-2
5	SLOPE TO DRAIN WITH TAPERED INSULATION
6	EXHAUST FAN, RE: MECHANICAL
7	FACTORY CURB MOUNTED AIR CONDITIONING UNITS ON 14" CURB, RE: MECHANICAL AND 1/A8.2
8	ROOF MOUNTED REFRIGERATION RACK, RE: FOOD SERVICE
9	SIGNAGE BELOW, RE: EXTERIOR ELEVATIONS
10	ROOF WALKWAY PAD, G.C. TO COORDINATE LOCATION WITH UNITS, RE: SPECIFICATIONS
11	MAKE UP AIR UNIT, RE: MECHANICAL
12	COPPER STANDING SEAM AWNING
13	SKYLIGHT
14	VENT THROUGH ROOF, RE: PLUMBING AND 7/A8.2
15	ROOF ACCESS HATCH, RE: 16/A7.6
16	ROOF ACCESS HATCH SAFETY RAIL, RE: 13/A7.6
17	GAS / DRAIN PIPING, RE: MEP
18	THROUGH WALL SCUPPER, COLLECTOR BOX AND 9" DOWNSPOUT, RE: 5 / A8.1
19	THROUGH WALL OVERFLOW SCUPPER, RE: 7 / A8.1
20	PREFABRICATED ALUMINUM STANDS BY ENGINEERING EXPRESS
21	PROVIDE KICKER FOR SPRINKLER TO BE RUN IN ATRIUM

FINISH SCHEDULE - EXTERIOR	
EXTERIOR PAINT	
EP-1	ANTIQUE WHITE
EP-2	MISSISSIPPI BRONZE ENAMEL
EP-3	IBIS WHITE
EP-4	CHARWOOD
STONE	
ST-1	STONE
EXTERIOR FINISH	
EF-1	MODULAR BRICK
EF-2	SPLIT FACE CMU BLOCK - 8" THICK
EF-3	NOT USED
EF-4	HARDIE PLANK HORIZONTAL LAP SIDING - NAVAJO BEIGE
EF-5	PLYWOOD-ROUGH SAWN CEDAR
EF-6	HARDIE PLANK HORIZONTAL LAP SIDING - KHAKI BROWN
EF-7	STONE SILL
EF-8	4" HARDIE TRIM - ARCTIC WHITE
EF-9	6" HARDIE TRIM - ARCTIC WHITE
ROOFING	
R-1	SINGLE PLY ROOF
R-2	ARCHITECTURAL COMPOSITION SHINGLES
R-3	STANDING SEAM COPPER

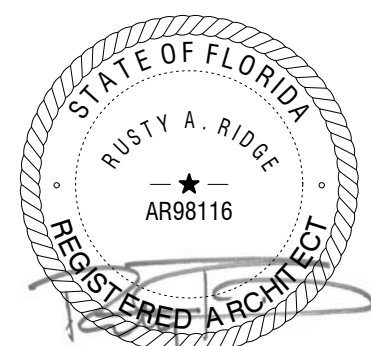


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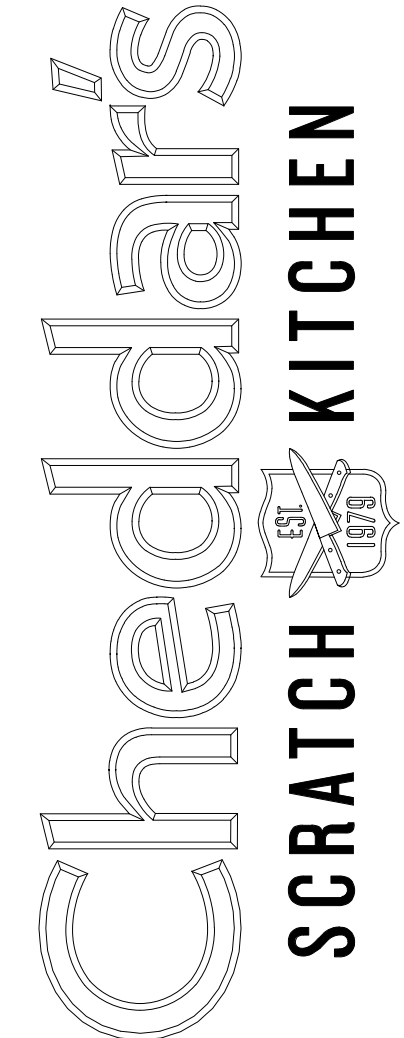
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RIVERVIEW, FL

Drawing:
ROOF PLAN

A3.1

SCHEDULE LEGEND									
TAG	ITEM	MANUFACTURER/ SUPPLIER	MATERIAL SPECIFICATION	APPLICATION	LOCATION	REMARKS	PURCHASED BY:	INSTALLED BY:	
INTERIOR PAINT									
P-1	TAVERN TAUPE	SHERWIN WILLIAMS	SHERWIN WILLIAMS COLOR: TAVERN TAUPE #SW7508 (EGGSHELL)	TOP COAT(S): TWO COATS MINIMUM. ENSURE FULL COVERAGE	ALL EXPOSED GYPSUM BOARD WALLS, ALL CEILINGS EXCEPT OFFICE	RE: INTERIOR ELEVATIONS AND RCP	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
P-2	IBIS WHITE	SHERWIN WILLIAMS	SHERWIN WILLIAMS COLOR: IBIS WHITE #SW7000 (SEMI-GLOSS)	TOP COAT(S): TWO COATS MINIMUM. ENSURE FULL COVERAGE	MECHANICAL ROOM, STORAGE CLOSET, OFFICE CEILING	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
P-3	BLACK OF NIGHT	SHERWIN WILLIAMS	SHERWIN WILLIAMS COLOR: BLACK OF NIGHT #SW993 (FLAT)	TOP COAT(S): TWO COATS MINIMUM. ENSURE FULL COVERAGE	LIQUOR STORAGE CLOSET, UNDERSIDE OF GRANITE	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
P-4	HALF CAFF	SHERWIN WILLIAMS	SHERWIN WILLIAMS COLOR: HALF CAFF #SW9091 (EGGSHELL)	TOP COAT(S): TWO COATS MINIMUM. ENSURE FULL COVERAGE	BAR SOFFIT	RE: RCP	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
STAIN									
S-1	EBONY	SHERWIN WILLIAMS	SHERWIN WILLIAMS INTERIOR STAIN: SHERWOOD #56480054. COLOR: EBONY. PROVIDE SAMPLE OF FINISH WOOD STAIN FOR CM TO APPROVE	SEE STAIN NOTES THIS SHEET	INTERIOR WOOD	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
S-2	CLEAR SEALER	SHERWIN WILLIAMS	SHERWIN WILLIAMS COLOR: SHERWOOD #SW1676, FAST DRY VINYL SEALER, CLEAR	APPLY ONE (1) COAT AT A RATE OF 4.0-5.0 MILS WET TO ALL BACK SIDES OF SURFACES AND ENDS TWO TOP COATS: BOTH COATS TO BE APPLIED AT A RATE OF 4.0-6.0 MILS WET. MUST BE SPRAY APPLIED	INTERIOR WOOD	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
S-3	FLAGSTONE	SHERWIN WILLIAMS	SHERWIN WILLIAMS DARKSCAPES, COLOR: FLAGSTONE #SW3023.	TO BE APPLIES PRIOR TO INSTALLATION OF WOOD BEAM. HUNG, SPRAY AND WIPE WITH CLOTH	WOOD IN ATRIUM	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
S-4	BRICK SEALER	MASONRY DEFENDER	INTERIOR/EXTERIOR BRICK SEALER	APPLY TWO (2) COATS PER MANUFACTURER	BACK BAR ONLY	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
WALL COVERING									
WC-1	VINYL FABRIC	WALFAB FINA DONOFF PHONE: 800-329-0188 EMAIL: FINA@WALFAB.NET	MDC. LINE: ESQUIRE COLLECTION: COLOR: FRANCIS TOFFEE. PATTERN: MLF4115#54651, WALFAB PRODUCT CODE: 00206516, MLF-4115 FRANCIS TOFFEE	PER MANUFACTURER'S SPECIFICATIONS. ENSURE PATTERN IS RUN VERTICALLY AND ROLL INSTALLED. RAILROADED, ALL OUTSIDE CORNERS TO BE WRAPPED, INSIDE CORNERS TO NOT HAVE A WRAP. PROVIDE SEAMS AT THESE LOCATIONS. START INSTALL OF WALL COVERING AT TOP OF CHAIR RAIL	DINING WALLS	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
WC-2	FRP-WHITE	KEMLITE OR APPROVED EQUAL	"GLASBOD-P" EMBOSSED FIBERGLAS PANEL, COLOR: WHITE	PER MANUFACTURER'S SPECIFICATIONS	KITCHEN AND OFFICE WALLS	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
WC-3	FRP-BLACK	KEMLITE OR EQUAL	"GLASBOD-P" EMBOSSED FIBERGLAS PANEL, COLOR: BLACK	PER MANUFACTURER'S SPECIFICATIONS	BAR	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
WC-4	WOOD LAMINATE	WILSONART	WILSONART PREMIUM LAMINATE, COLOR: #7945K-18 KANADU	PER MANUFACTURER'S SPECIFICATIONS. PATTERN RUN VERTICALLY	BAR FACE	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
WC-5	PLASTIC LAMINATE-WHITE	FORMICA	FORMICA PLASTIC LAMINATE, COLOR: WHITE #949-58 MATTE FINISH	PER MANUFACTURER'S SPECIFICATIONS	OFFICE MILLWORK	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
WC-6	PLASTIC LAMINATE-BLACK	FORMICA	FORMICA PLASTIC LAMINATE, COLOR: BLACK #909-58 MATTE FINISH	PER MANUFACTURER'S SPECIFICATIONS	BAR GLASS STORAGE	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
WC-7	STONE	TRINITY SURFACES DALE WILLIAMS@BRAD WEATHERLY EMAIL: STRATEGICACCOUNTS@TRINITYSURFACES.COM	TRINITY SURFACES: TRINITY SURFACES, SERIES: NATURAL STONE, COLOR: CREME IMPERIAL BEIGE, FINISH: SPLIT FACE, SIZE 1"X2" MOUNTED ON 12"X12" SHEET, PROVIDE MOCK UP FOR OWNER CONSTRUCTION MANAGER TO APPROVE	INSTALL TIGHT WITH NO GROUT	DINING AREAS	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
WC-8	PORCELAIN TILE-CREME	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, PORCELAIN TILE, PRODUCT: SHIBUSA, COLOR: CREMA, 12"X24", 3/16" GROUT LINES	MORTAR: LATICRETE LHT PLUS GREY, GROUT: LATICRETE PERMACOLOR SELECT #61 PARCHMENT	WOMEN'S RESTROOM/FAMILY RESTROOM	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
WC-9	PORCELAIN TILE-TORTORA	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, PORCELAIN TILE, PRODUCT: SHIBUSA, COLOR: TORTORA, 12"X24", 3/16" GROUT LINES	MORTAR: LATICRETE LHT PLUS GREY, GROUT: LATICRETE PERMACOLOR SELECT #61 PARCHMENT	MEN'S RESTROOM	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
WC-10	PORCELAIN TILE-TIGERS EYE	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, PORCELAIN TILE, PRODUCT: SHIMMER GLASS, COLOR: TIGERS EYE, 9/16" X9/16"	MORTAR: LATICRETE LHT PLUS GREY, GROUT: LATICRETE PERMACOLOR SELECT #2618 SAUTERN	BACK BAR COLUMNS	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
WC-11	NOT USED								
WC-12	QUARRY TILE	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	6"X6"X1/2" NON-ABRASIVE QUARRY TILE SERIES, COLOR: MAYFLOWER RED #31	MORTAR: LATICRETE 254 PLATINUM GREY, GROUT: LATICRETE SPECTRALOCK 2000 IG #22 MIDNIGHT BLACK	MOP SINK WALL	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
WC-13	WOOD PLANKS	MOHAWK	MOHAWK, PRODUCT: COASTAL COUTURE, COLOR: SEASPRAY OAK	PER MANUFACTURER'S SPECIFICATIONS	WOOD LOOK WALLS	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
WC-14	STAINLESS STEEL PANEL	BY KITCHEN	BY KITCHEN	PER MANUFACTURER'S SPECIFICATIONS	KITCHEN WALLS	RE: INTERIOR ELEVATIONS	KITCHEN PROVIDER	KITCHEN PROVIDER	
WC-15	THIN BRICK	TRINITY SURFACES DALE WILLIAMS@BRAD WEATHERLY EMAIL: STRATEGICACCOUNTS@TRINITYSURFACES.COM	MANUFACTURER: GENERAL SHAIN. THIN BRICK, 1/2" X 2 1/4" X 7/8", COLOR: CHEDDARS BLEND, PROVIDE EXTERIOR CORNERS FROM MANUFACTURER, PROVIDE MOCKUP FOR OWNER CONSTRUCTION MANAGER TO APPROVE	MORTAR: AMERIMIX AMX475, POINTING MORTAR: AMX405, COLOR: ALABASTER, G.C. TO PROVIDE LIGHT MORTAR WASH WITH ANTIQUATED LOOK. AND FULL MORTAR JOINT. CONTACT OWNER FOR CONTROL, SAMPLE AND PHOTOS OF APPROVED LOOK.	DINING WALLS, ENTRY, BACK BAR	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
WC-16	WOOD PANEL	BY G.C.	1/4" OAK PANEL, GRAIN TO BE RUN VERTICALLY ON WAINSCOT, HORIZONTALLY ON HEADERS AND ABOVE WINDOWS	PER MANUFACTURER'S SPECIFICATIONS	DINING WALLS	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
GRANITE									
G-1	GRANITE-JUPARANA ST. CECILIA	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, 3CM GRANITE SLAB, PRODUCT: JUPARANA ST. CECILIA, LEATHERED FINISH	PER MANUFACTURER'S SPECIFICATIONS	BAR TOP	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
G-2	GRANITE-BLACK	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	INDIAN PREMIUM 2CM BLACK GRANITE	PER MANUFACTURER'S SPECIFICATIONS	ALL LOCATIONS IN DINING OTHER THAN BAR	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
G-3	SOLID SURFACE	CORIAN	COLOR: SAHARA	PER MANUFACTURER'S SPECIFICATIONS	RESTROOM COUNTERS	RE: INTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
CEILING FINISHES									
C-1	ACOUSTICAL CEILING-BLACK	USG CORPORATION	24"X24"X3/4" ACOUSTICAL CEILING TILE, USG, MODEL: FROST, CLIMAPLUS #FL-418, COLOR: FLAT BLACK #205, GRID TO BE BLACK	PER MANUFACTURER'S SPECIFICATIONS	DINING ROOM	RE: RCP FOR EXACT LOCATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
C-2	ACOUSTICAL CEILING-WHITE	USG CORPORATION	24"X24"X1/2" ACOUSTICAL CEILING TILE, MODEL: USG #3270 CLIMAPLUS, COLOR: WHITE, GRID TO MATCH TILE COLOR	PER MANUFACTURER'S SPECIFICATIONS	KITCHEN	RE: RCP FOR EXACT LOCATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
C-3	NOT USED								
C-4	V-GROOVE PLANK	BY G.C.	1"X6" V-GROOVE PLANKS	PER MANUFACTURER'S SPECIFICATIONS	DINING ROOM	RE: RCP FOR EXACT LOCATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
FLOOR FINISHES									
F-1	PORCELAIN TILE-MINERAL CHROME	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, PORCELAIN TILE, PRODUCT: MINERAL CHROM, COLOR: MINERAL BLACK, 12"X24", 3/16" GROUT LINES, PROVIDE STAGGERED JOINT, OFFSET SHALL NOT EXCEED 33%	MORTAR: LATICRETE LHT PLUS GREY, GROUT: LATICRETE PERMACOLOR SELECT #2645 RAVEN	ENTRY, RESTROOM VESTIBULE AND ENTRY TO KITCHEN	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
F-2	PORCELAIN TILE-MINERAL CHROME	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, PORCELAIN TILE, PRODUCT: MINERAL CHROM, COLOR: MINERAL BLACK, 12"X24", CUT TO 4" WIDE, 3/16" GROUT LINES	MORTAR: LATICRETE LHT PLUS GREY, GROUT: LATICRETE PERMACOLOR SELECT #2645 RAVEN	TILE TRANSITIONS	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
F-3	PORCELAIN TILE-RESIDE	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, PORCELAIN TILE, PRODUCT: RESIDE, COLOR: BLACK, 12"X24", 3/16" GROUT LINES, PROVIDE STAGGERED JOINT, OFFSET SHALL NOT EXCEED 33%	MORTAR: LATICRETE LHT PLUS GREY, GROUT: LATICRETE PERMACOLOR SELECT #2645 RAVEN	DINING ROOMS	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
F-4	PORCELAIN TILE-PIETRA ITALIA	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, PORCELAIN TILE, PRODUCT: PIETRA ITALIA, COLOR: GREY 12"X12", 3/16" GROUT LINES, PROVIDE STAGGERED JOINT, OFFSET SHALL NOT EXCEED 33%	MORTAR: LATICRETE LHT PLUS GREY, GROUT: LATICRETE PERMACOLOR SELECT #2645 RAVEN	RESTROOM	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
F-5	QUARRY TILE	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	6"X6"X1/2" SINGLE ABRASIVE QUARRY TILE, COLOR: MAYFLOWER #31XA	MORTAR: LATICRETE 254 PLATINUM GREY, GROUT: LATICRETE SPECTRALOCK 2000 IG #22 MIDNIGHT BLACK	KITCHEN AND MOP SINK	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
F-6	CARPET	BY OWNER	ROLLED CARPET FLOORING	PER MANUFACTURER'S SPECIFICATIONS	DINING ROOMS AND ATRIUM	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
F-7	ENTRY ROLL MAT	BY OWNER	ROLL MAT	PER MANUFACTURER'S SPECIFICATIONS	VESTIBULE AND KITCHEN ALCOVES	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
F-8	SEALED CONCRETE	REFER TO SPECIFICATIONS	BY GENERAL CONTRACTOR	BY GENERAL CONTRACTOR	MECHANICAL ROOM AND DUMPSTER AREA	RE: FLOOR FINISH PLAN	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
F-9	QUARRY TILE	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	6"X6"X1/2" DOUBLE ABRASIVE QUARRY TILE, COLOR: MAYFLOWER #31XA	MORTAR: LATICRETE 254 PLATINUM GREY, GROUT: LATICRETE SPECTRALOCK 2000 IG #22 MIDNIGHT BLACK	KITCHEN AND MOP SINK	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
BASE (COVE) FINISHES									
B-1	PORCELAIN TILE-MINERAL CHROME	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, PORCELAIN TILE, PRODUCT: MINERAL CHROM, COLOR: MINERAL BLACK, 12"X24", CUT TO CREATE 6"X24" BASE	MORTAR: LATICRETE LHT PLUS GREY, GROUT: LATICRETE PERMACOLOR SELECT #2645 RAVEN	ENTRY, RESTROOM VESTIBULE, BAR AND ENTRY INTO THE KITCHEN	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
B-2	QUARRY TILE	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	6"X6"X1/2" QUARRY TILE SERIES, COLOR: MAYFLOWER RED #31	MORTAR: LATICRETE 254 PLATINUM GREY, GROUT: LATICRETE SPECTRALOCK 2000 IG #22 MIDNIGHT BLACK	BAR, OFFICE, KITCHEN, COOLER, FREEZER	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
B-3	PORCELAIN TILE-RESIDE	ARIZONA TILE BETTY ANN YARBOROUGH PHONE: 972.456.0935	ARIZONA TILE, PORCELAIN TILE, PRODUCT: RESIDE, COLOR: BLACK, 12"X24", CUT TO CREATE 6"X24" BASE	MORTAR: LATICRETE LHT PLUS GREY, GROUT: LATICRETE PERMACOLOR SELECT #2645 RAVEN	DINING ROOMS	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
SCHLUTER TRIMS									
SC-1	BASE COVE	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	DILEX AHK 1S 12S / AT SATIN NICKEL ANODIZED ALUMINUM	PER MANUFACTURER'S SPECIFICATIONS	COVE BASE IN RESTROOMS, KITCHEN ENTRY	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
SC-2	CORNER EDGES AND TOP	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	RONDEC RO12S AT SATIN NICKEL ANODIZED ALUMINUM 1/2"	PER MANUFACTURER'S SPECIFICATIONS	CORNER EDGES IN RESTROOMS, WALL TILE EDGES VERTICAL AND HORIZONTAL	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
SC-3	OUTSIDE COVE CORNER	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	DILEX E90AHKS 1/2S / AT SATIN NICKEL ANODIZED ALUMINUM 1/2"	PER MANUFACTURER'S SPECIFICATIONS	INSIDE COVE CORNER AT RESTROOM BASE	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
SC-4	INSIDE COVE CORNER	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	DILEX R90AHKS 1/2S / AT SATIN NICKEL ANODIZED ALUMINUM 1/2"	PER MANUFACTURER'S SPECIFICATIONS	COVE INSIDE CORNERS IN RESTROOMS	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
SC-5	OUTSIDE CORNERS IN BAR	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	RONDEC RO 12S EB BRUSHED STAINLESS STEEL 1/2"	PER MANUFACTURER'S SPECIFICATIONS	BAR STEP TILE EDGE	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
SC-6	CORNER EDGES IN MAIN DINING	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	RONDEC RO 12S TSDA DARK ANTHRACITE, COLOR: COATED ALUMINUM 1/2"	PER MANUFACTURER'S SPECIFICATIONS	BASE CORNER EDGES MAIN DINING	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
SC-7	CORNER EDGES IN BAR DINING	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	RONDEC RO 12S TSDA DARK ANTHRACITE, COLOR: COATED ALUMINUM 1/2"	PER MANUFACTURER'S SPECIFICATIONS	BAR AND RESTROOM VESTIBULE	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
SC-8	CARRY OUT TILE CORNERS	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	RONDEC RO 12S ABGB BRUSHED ANTIQUE BRONZE ANODIZED ALUMINUM 1/2"	PER MANUFACTURER'S SPECIFICATIONS	OUTSIDE TILE CORNERS FOR WC-16 AND WC-18, WALL TILE TAKE-OUT AREA AND DINING WALLS	RE: INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR	
SC-9	TILE EDGE AT WALK OFF MATS	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	SCHIENE A 12S AE STAIN ANODIZED ALUMINUM	PER MANUFACTURER'S SPECIFICATIONS	TILE EDGE AT WALK-OFF MATS	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
SC-10	TRANSITION STRIP AT CARPET/TILE	SCHLUTER SYSTEMS BETTY ANN YARBOROUGH PHONE: 972.456.0935	RENO AETK12S, COLOR: ANODIZED ALUMINUM	PER MANUFACTURER'S SPECIFICATIONS	FRONT OF HOUSE DINING	RE: FLOOR FINISH PLAN	BY OWNER	GENERAL CONTRACTOR	
SEALANT									
SE-1	CAULK	LATICRETE	SANDED CERAMIC TILE CAULK - #10 ANTIQUE WHITE	PER MANUFACTURER'S SPECIFICATIONS	STONE AND BRICK MORTAR REPLACEMENT	RE: SPECIFICATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
SE-2	TILE AND GROUT CAULK	LATICRETE	SILICONIZED ACRYLIC CAULK - SANDED - TO MATCH TILE, WALL TILE WC-6, WC-10, WC-11, & WC-18	PER MANUFACTURER'S SPECIFICATIONS	CERAMIC TILE	RE: SPECIFICATIONS	BY OWNER	GENERAL CONTRACTOR	
SE-3	WINDOW AND DOOR SEALANT	PECORA	WINDOW AND DOOR INSTALLATION SEALANT - BROWN	PER MANUFACTURER'S SPECIFICATIONS	CEILING AND DOOR TRIM	RE: SPECIFICATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
SE-4	EIFS SEALANT	SHERWIN WILLIAMS	POWER HOUSE - SANDED ACRYLIC LATEX SEALANT - ANTIQUE WHITE	PER MANUFACTURER'S SPECIFICATIONS	EXTERIOR EIFS JOINTS	RE: SPECIFICATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	
SE-5	WINDOW AND DOOR SEALANT	PECORA	WINDOW AND DOOR INSTALLATION SEALANT - BLACK	PER MANUFACTURER'S SPECIFICATIONS	WOOD JOINTS	RE: SPECIFICATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR	

GENERAL NOTES - FINISH SCHEDULE



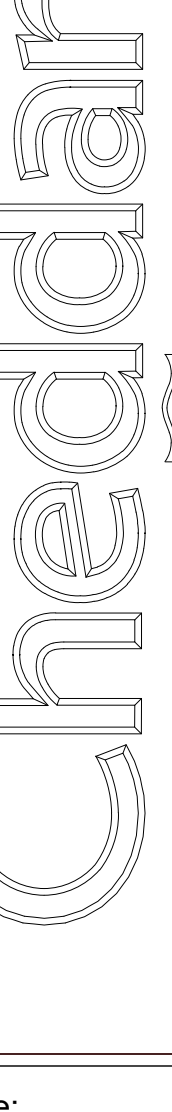
1	A METAL EXPLORED TRIM AND ACCESSORIES IN THE VESTIBULE, WAITING, DINING, BAR, CORRIDOR AND RESTROOM AREAS TO BE BLACK.
2	ALL TRIM THAT IS TO BE BLACK FINISH TO BE BLACK.
3	A AIR CONDITIONING GRILLES AND REGISTERS
4	S SPEAKERS
5	C CAMERAS
6	D TELEVISIONS AND VISIBILE TRIM AND SUPPORTS
7	E LIGHT FIXTURES AND TRIM
8	F ELECTRICAL WALL OUTLETS AND SWITCHES
9	G ANY VISIBILE SWITCHES, CONTROLS OR ALARMS AND THEIR TRIM
10	ALL ADHESIVE USED FOR FINISHES MUST BE OF THE TYPE THAT DOES NOT HAVE FORMALDEHYDE AS PART OF ITS CHEMISTRY AND MUST BE SUITABLE FOR THE SPECIFIC SURFACE INTENDED.
11	FOR APPLICATION OF NEW FINISHES, CLEAN EXISTING SURFACES THOROUGHLY SO NEW FINISHES WILL ADHERE PROPERLY.
12	ANY MISCELLANEOUS HARDWARE THAT IS FURNISHED BY OWNER IS TO BE STORED AND PROTECTED BY THE GENERAL CONTRACTOR.
13	GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING WALLS AND CEILINGS AFTER INSTALLATION OF DECOR.
14	REFER TO REFER TO ELEVATIONS FOR FINISH LOCATIONS WHERE MULTIPLE FINISHES ARE SPECIFIED.
15	SEALANT (CAULK) SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS: A METAL DOOR FRAME B SET WINDOW HEAD, JAMB AND SILL C JOINTS AND PIPE PENETRATIONS AT WALL AND CEILING D STAINLESS STEEL TO WALLS, UNWELDED SS TO SS CONNECTION E BETWEEN GYPSUM PANELS AND CONC. FLOOR SLAB F BETWEEN ALL DRESSING VANES G BETWEEN ALL BASES AND FLOORS
16	ALL BLACK STEEL GAS PIPING SHALL BE PAINTED YELLOW.
17	ALL CABINET DOORS SHALL HAVE (2) SET FLICKERS PER CABINET TOP AND BOTTOM.
18	ALL TOPS AND BOTTOMS OF WOOD DOORS SHALL BE SEALED.
19	CG TO PROVIDE A 4"X4" MOX UP OF BRICK AND STONE FOR CONSTRUCTION ON RAMPERS PROVIDED BY OWNER.
20	USE OF SEALANT ON METAL SURFACES.
21	GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING WORK AREAS AND MATERIALS FROM THEFT, VANDALISM AND OTHER LOSSES.
22	CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FROM PAIN AT OTHER LOCATIONS TO BE PROTECTED.
23	GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MISC. CLEANING OF WALLS, FIXTURES, LIGHTS, TOUCH-UP, DEBRIS REMOVAL, AND ANY OTHER WORK REQUIRED TO HAVE ALL WORK COMPLETED AND BE PERFORMED UNDER SEPARATE CONTRACTS. CLEAN AND READY FOR OCCUPANCY.
24	PAINTMASTER CONTRACTOR MUST USE MANUFACTURER AND MODEL OF PAINTS AND SPECIFIED CO. NO. AND NAME OF THE MANUFACTURER.
25	REFER TO SPECIFICATIONS FOR APPROVED ECOLI MANUFACTURERS

ECOLI FINISH NOTES

1	SURFACE PREPARATION: ALL FINISHING LUMBER AND FLOORING MUST BE STORED IN DRY, WARM ROOMS TO PREVENT ABSORPTION OF MOISTURE. SHRINKAGE AND ROUGHENING OF THE WOOD. ALL FINISHING LUMBER MUST BE SAWNED SMOOTH WITH THE GRAIN, NEVER ACROSS IT. SURFACE AREA BLEMISHES MUST BE CORRECTED AND THE AREA CLEANED OFF BEFORE COATING.
2	STAIN: SHERWIN WILLIAMS FAST DRY WOOD BAY WIPING STAIN EBONY (548040064) A FULLY STAIN COATING OF STAIN USING NATURAL BRISTLE BRUSH. THEN WIPES CLEANING USING LINT FREE CLOTH. STAIN MUST PENETRATE UP TO 10 MINUTES OR BEFORE STAIN FINISHES. FINISH BY REMOVING ALL EXCESS STAIN BY WIPING OFF WITH OFFICIAL WIPING CLOTH. IF THE STAIN REMAINS IN THE CLOTH (DROPPED IN STAIN), THEN WIPES AS DESCRIBED ABOVE. LET STAIN DRY AT LEAST 24 HOURS prior TO MOVING ON.
3	A APPLY STAIN TO ALL EDGES, FACTORY CUT AND FIELD CUT ENDS OF WOOD PLANKS AND TRIM.
4	SECOND COAT: SHERWIN WILLIAMS FAST DRY VINYL SEALER CLEAR (777800063) A PRODUCT MUST BE CATALYZED WITH #66922. 1.5 OUNCES TO 1 GALLON WHICH EQUALS 75.00 OUNCES PER GALLON. B APPLY A FULL WET COAT OF ACRYLIC CONCRETE COATING AT 0.4-0.6 MILS WHICH EQUALS 1.47 HOURS BEFORE EXCESS DUSTING AND REMOVING. ANY EXCESS REPEAT PROCESS. DO NOT EXCEED 4.0 MILS OFF FOR THE TOTAL SYSTEM.

PROVIDE PRODUCT SAMPLES OF FINISHED WOOD STAINED FOR
CONSTRUCTION MANAGER TO APPROVE BEFORE PROCEEDING

MOCK UPS REQUIRED FOR BRICK, STONE, AND EIFS INTERIOR AND EXTERIOR BEFORE PROCEEDING

	
6201 CAMPUS CIRCLE DRIVE E IRVING, TEXAS 75063 TEL: 972.870.1288 WWW.IDSTUDIO4.COM	
PROJECT NUMBER DCH22007	
CLIENT: DARDEN RESTAURANTS, INC. 1000 DARDEN CENTER DR. ORLANDO, FL 32837 PHONE: 407.245.4000 www.darden.com	
 REV 02: 04.18.2025	
	
Issue Date:	02.15.2023
REVISION INFORMATION	
1	04.04.2023
CITY COMMENTS	
2	04.05.2023
COORDINATION COMMENTS	
Restaurant #:	21K0037
CHEDDARS SCRATCH KITCHEN PROTO 18	
10150 BLOOMINGDALE AVE RIVERVIEW, FL 33578	
RIVERVIEW, FL	
Drawing:	
INTERIOR FINISH SCHEDULES	
A4.1	

SCHEDULE LEGEND								
TAG	ITEM	MANUFACTURER/ SUPPLIER	MATERIAL SPECIFICATION	APPLICATION	LOCATION	REMARKS	PURCHASED BY:	INSTALLED BY:
EXTERIOR PAINT/ STAINS								
EP-1	ANTIQUE WHITE	SHERWIN WILLIAMS	SHERWIN WILLIAMS COLOR: ANTIQUE WHITE #SW6119 (EGGSHELL)	PRIMER: EXTERIOR PRIMER (EXTERIOR SURFACES) TOP COAT(S): TWO COATS MINIMUM ENSURE FULL COVERAGE OF ALL PAINT				
EP-2	MISSISSIPPI BRONZE ENAMEL	SHERWIN WILLIAMS	SHERWIN WILLIAMS COLOR: MISSISSIPPI BRONZE ENAMEL #BR28 (EGGSHELL)	PRIMER: EXTERIOR PRIMER (EXTERIOR SURFACES) TOP COAT(S): TWO COATS MINIMUM ENSURE FULL COVERAGE OF ALL PAINT	METAL DOORS AND FRAMES, DUMPSTER GATES, POSTS AND BOLLARD AND ALL EXPOSED UTILITIES	RE: EXTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR
EP-3	IBIS WHITE	SHERWIN WILLIAMS	SHERWIN WILLIAMS COLOR: IBIS WHITE #SW7000 (EPOXY SEMI-GLOSS)	PRIMER: EXTERIOR PRIMER (EXTERIOR SURFACES) TOP COAT(S): TWO COATS MINIMUM ENSURE FULL COVERAGE OF ALL PAINT	INTERIOR DUMPSTER WALLS / EXTERIOR WALL CAPS	RE: EXTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR
EP-4	CHARWOOD	SHERWIN WILLIAMS	SHERWIN WILLIAMS COLOR: CHARWOOD #SW3542 WOOD STAIN	THREE APPLICATIONS: 1ST: SPRAY 1ST APPLICATION THEN WIPE OR ROLL 2ND COAT 2ND: SPRAY TO BLEND, NO WIPE	BOTTOM OF ALL AWNINGS AND MAIN BUILDING SOFFITS, ALL FASCIA BOARDS, AWNING FRAMES, DORMER SOFFITS AND ALL SHUTTERS	RE: EXTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR
STONE								
ST-1	STONE	TRINITY SURFACES DALE WILLIAMS/BRAD WEATHERLY EMAIL: STRATEGICACCOUNTS@TRINITYSURFACES.COM	MANUFACTURER: J&N STONE - PIONEER DIVISION, SERIES: ASHLAR, COLOR: CHEDDARS MIX, STONE SIZES RANDOM, THICKNESS 1 1/4" - 2 1/2", PROVIDE STONE CORNERS, PROVIDE MOCK UP FOR OWNER CONSTRUCTION MANAGER TO APPROVE	MORTAR: AMX475, POINTING MORTAR: AMX405, COLOR: ALABASTER	EXTERIOR AND INTERIOR WALLS	RE: EXTERIOR AND INTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR
EXTERIOR MATERIALS								
EF-1	MODULAR BRICK	TRINITY SURFACES DALE WILLIAMS/BRAD WEATHERLY EMAIL: STRATEGICACCOUNTS@TRINITYSURFACES.COM	MANUFACTURER: GENERAL SHALE, MODULAR BRICK, COLOR: CHEDDARS BLEND, PROVIDE MOCKUP FOR DARDEN CONSTRUCTION MANAGER TO APPROVE	MORTAR: AMX405, COLOR: ALABASTER - G.C. TO PROVIDE LIGHT MORTAR WASH WITH ANTIQUATED LOOK AND FULL MORTAR JOINT, CONTACT OWNER FOR CONTROL SAMPLE AND PHOTOS OF APPROVED LOOK.	EXTERIOR WALLS	RE: EXTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR
EF-2	SPLIT FACE CMU BLOCK - 8" THICK	YORK BUILDING PRODUCTS	SPLIT FACE CMU BLOCK, COLOR BUFF, CODE: 8B16H-SPF	PER MANUFACTURER'S SPECIFICATIONS	EXTERIOR WALLS	RE: EXTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR
EF-3	NOT USED							
EF-4	HARDIE PLANK HORIZONTAL LAP SIDING	JAMES HARDIE	PLANK HORIZONTAL LAP SIDING, COLOR: NAVAJO BEIGE	PER MANUFACTURER'S SPECIFICATIONS	EXTERIOR WALLS	RE: EXTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR
EF-5	PLYWOOD-ROUGH SAWN CEDAR	GENERAL CONTRACTOR	4'x8' ROUGH SAWN CEDAR PLYWOOD, SIZE: 1/2" THICK	PER MANUFACTURER'S SPECIFICATIONS	SOFFITS AT ALL EXTERIOR OVERHANGS	RE: WALL SECTIONS AND RCP	GENERAL CONTRACTOR	GENERAL CONTRACTOR
EF-6	HARDIE PLANK HORIZONTAL LAP SIDING	JAMES HARDIE	PLANK HORIZONTAL LAP SIDING, COLOR: KHAKI BROWN	PER MANUFACTURER'S SPECIFICATIONS	EXTERIOR WALLS	RE: EXTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR
EF-7	STONE SILL	TRINITY SURFACES DALE WILLIAMS/BRAD WEATHERLY EMAIL: STRATEGICACCOUNTS@TRINITYSURFACES.COM	MANUFACTURER: J&N STONE - PIONEER DIVISION, SERIES: ASHLAR, COLOR: CHEDDARS MIX, STONE SIZES RANDOM, THICKNESS 1 1/4" - 2 1/2", PROVIDE STONE CORNERS, PROVIDE MOCK UP FOR OWNER CONSTRUCTION MANAGER TO APPROVE	MORTAR: AMX475, POINTING MORTAR: AMX405, COLOR: ALABASTER	EXTERIOR WALLS	RE: EXTERIOR ELEVATIONS	BY OWNER	GENERAL CONTRACTOR
EF-8	4" HARDIE TRIM	JAMES HARDIE	HARDIE TRIM BOARDS, 5/4 BOARD, SMOOTH, 5/4"x4", COLOR: ARCTIC WHITE	PER MANUFACTURER'S SPECIFICATIONS	EXTERIOR WALLS			
EF-9	6" HARDIE TRIM	JAMES HARDIE	HARDIE TRIM BOARDS, 5/4 BOARD, SMOOTH, 5/4"x6", COLOR: ARCTIC WHITE	PER MANUFACTURER'S SPECIFICATIONS	EXTERIOR WALLS			
ROOFING								
R-1	SINGLE PLY ROOF	REFER TO SPECIFICATIONS	SURFACE COLOR TO BE WHITE, INSULATION AS REQUIRED FOR SELECTED ROOF MEMBRANE	PER MANUFACTURER'S SPECIFICATIONS	MAIN FLAT ROOF	RE: ROOF PLAN	GENERAL CONTRACTOR	GENERAL CONTRACTOR
R-2	ARCHITECTURAL COMPOSITION SHINGLES	GAF	GAF COMPOSITION SHINGLES, STYLE: GRAND CANYON, COLOR: BLACK OAK-ALT, EQUAL - CERTAIN TEED PRESIDENTIAL SHAKE (AUTUM BLEND)	INSTALL OVER (1) LAYER OF 30# FELT AND ICE AND WATER SHIELD HT	MANSARD ROOF	RE: EXTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR
R-3	STANDING SEAM COPPER	BERRIDGE MANUFACTURING	BERRIDGE MANUFACTURING, TEE-PANEL STANDING SEAM METAL ROOF WITH KYNAR FINISH, COLOR: COPPER COTE	PER MANUFACTURER'S SPECIFICATIONS	AWNING ROOF	RE: EXTERIOR ELEVATIONS	GENERAL CONTRACTOR	GENERAL CONTRACTOR

GENERAL NOTES - FINISH SCHEDULE

- 1
- ALL METAL EXPOSED TRIM AND ACCESSORIES IN THE VESTIBULE, WAITING, DINING, BAR, CORRIDOR AND RESTROOM AREAS TO BE BLACK.
- 2
- ITEMS THAT ARE TO BE BLACK IN FRONT OF HOUSE:
A. AIR CONDITIONING GRILLES AND REGISTERS
B. SPEAKERS
C. CAMERAS
D. TELEVISIONS AND VISIBLE TRIM AND SUPPORTS
E. LIGHT FIXTURES AND TRIM
F. ELECTRICAL WALL OUTLETS AND SWITCHES
G. ANY VISIBLE SWITCHES, CONTROLS OR ALARMS AND THEIR TRIM
- 3
- ALL ADHESIVE USED FOR FINISHES MUST BE OF THE TYPE THAT DOES NOT HAVE FORMALDEHYDE AS PART OF ITS CHEMISTRY AND MUST BE SUITABLE FOR THE SPECIFIC PURPOSE INTENDED.
- 4
- PRIOR TO APPLICATION OF NEW FINISHES, CLEAN EXISTING SURFACES THOROUGHLY SO NEW FINISHES WILL ADHERE PROPERLY.
- 5
- ANY MISCELLANEOUS HARDWARE THAT IS FURNISHED BY OWNER IS TO BE RECEIVED, STORED, AND INSTALLED BY THE GENERAL CONTRACTOR.
- 6
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAINTING WALLS AND CEILINGS AFTER INSTALLATION OF DECOR.
- 7
- REFER TO INTERIOR ELEVATIONS FOR FINISH LOCATIONS WHERE MULTIPLE FINISHES ARE SPECIFIED.
- 8
- SEALANT (CAULK) SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
A. METAL DOOR FRAMES
B. EXT. WINDOW HEAD, JAMB AND SILL
C. CONDUIT AND PIPE PENETRATIONS AT WALL AND CEILINGS
D. STAINLESS STEEL TO WALLS, UNWELDED SS TO SS CONNECTION
E. BETWEEN GYPSUM PANELS AND CONC. FLOOR SLAB
F. BETWEEN ALL DISSIMILAR MATERIALS
G. BETWEEN ALL BASES AND FLOORS.
- 9
- ALL BLACK STEEL GAS PIPING SHALL BE PAINTED YELLOW.
- 10
- ALL CABINET DOORS SHALL HAVE (2) FELT SILENCERS PER DOOR TOP AND BOTTOM.
- 11
- ALL TOPS AND BOTTOMS OF WOOD DOORS SHALL BE SEALED.
- 12
- G.C. TO PROVIDE A 4"x4" MOCK UP OF BRICK AND STONE FOR CONSTRUCTION MANAGER APPROVED ON SITE.
- 13
- USE OIL BASE PAINT ON METAL SURFACES.
- 14
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING WORK AREAS AND MATERIALS FROM THEFT, VANDALISM AND OTHER LOSSES.
- 15
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FROM PAINT ALL OTHER AREAS NOT TO RECEIVE PAINT.
- 16
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MISC. CLEANING OF WALLS, FIXTURES, AND LIGHTS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PATCHING AND PAINTING TOUCH-UP, DEBRIS REMOVAL, AND ANY OTHER WORK REQUIRED TO LEAVE ALL WORK, INCLUDING WORK PERFORMED UNDER SEPARATE CONTRACTS, CLEAN AND READY FOR OCCUPANCY.
- 17
- PAINT/STAIN CONTRACTOR MUST USE MANUFACTURER AND MODEL # OF PAINT/STAIN SPECIFIED. NO EXCEPTIONS.
- 18
- REFER TO SPECIFICATIONS FOR APPROVED EQUAL MANUFACTURERS.

EBONY STAIN NOTES

- 1
- SURFACE PREPARATION:
ALL FINISHING LUMBER AND FLOORING MUST BE STORED IN DRY, WARM ROOMS TO PREVENT ABSORPTION OF MOISTURE, SHRINKAGE AND ROUGHENING OF THE WOOD. ALL SURFACES MUST BE SANDED SMOOTH WITH THE GRAIN, NEVER ACROSS IT. SURFACE BLEMISHES MUST BE CORRECTED AND THE AREA CLEANED OF DUST BEFORE COATING.
- 2
- STAIN:
SHERWIN WILLIAMS SHER-WOOD BAC WIPING STAIN EBONY (S64B00054)
A. APPLY A FULL WET COAT OF STAIN USING NATURAL BRISTLE BRUSH, THEN WIPE CLEAN USING A LINT FREE CLOTH. ALLOW STAIN TO PENETRATE UP TO 10 MINUTES OR BEFORE STAIN FLASHES. FINISH BY REMOVING ALL EXCESS STAIN. IF WIPING BECOMES DIFFICULT DUE TO DRYNESS OF THE STAIN, REWET WITH A CLOTH DIPPED IN STAIN, THEN WIPE CLEAN AS DESCRIBED ABOVE. LET STAIN DRY AT LEAST 24 HOURS PRIOR TO MOVING ON.
B. APPLY STAIN TO ALL EDGES, FACTORY CUT AND FIELD CUT CUT ENDS OF WOOD PLANKS AND TRIM.
- 3
- SECOND COAT:
SHERWIN WILLIAMS FAST DRY VINYL SEALER CLEAR (T67F00006)
A. PRODUCT MUST BE CATALYZED WITH W66V22. 1.5 OUNCES TO 1 GALLON WHICH EQUALS 7.5 OUNCES PER 5 GALLONS.
B. SPRAY A FULL WET COAT, AIR DRY 30 MINUTES. SAND WITH 240 GRIT OR EQUIVALENT, REMOVE SANDING DUST.
- 4
- THIRD COAT:
SHERWIN WILLIAMS ACR CONV DRE (T77F00063)
A. PRODUCT MUST BE CATALYZED WITH W66V26. 4 OUNCES PER GALLON WHICH EQUALS 20 OUNCES PER 5 GALLONS.
B. SPRAY A FULL WET COAT OF ACRYLIC CONVERSION COATING AT 4.0-6.0 MILS WET. ALLOW TO DRY 1 HOUR BEFORE SCUFF SANDING AND REMOVING ANY EXCESS. REPEAT PROCESS. DO NOT EXCEED 4.0 MILS DFT FOR THE TOTAL SYSTEM.

PROVIDE PRODUCT SAMPLES OF FINISHED WOOD STAINED FOR CONSTRUCTION MANAGER TO APPROVE BEFORE PROCEEDING

MOCK UPS REQUIRED FOR BRICK, STONE, AND EIFS INTERIOR AND EXTERIOR BEFORE PROCEEDING

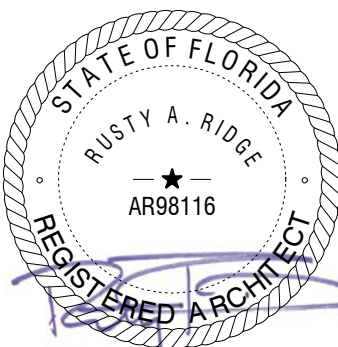


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TEL: 972.870.1288
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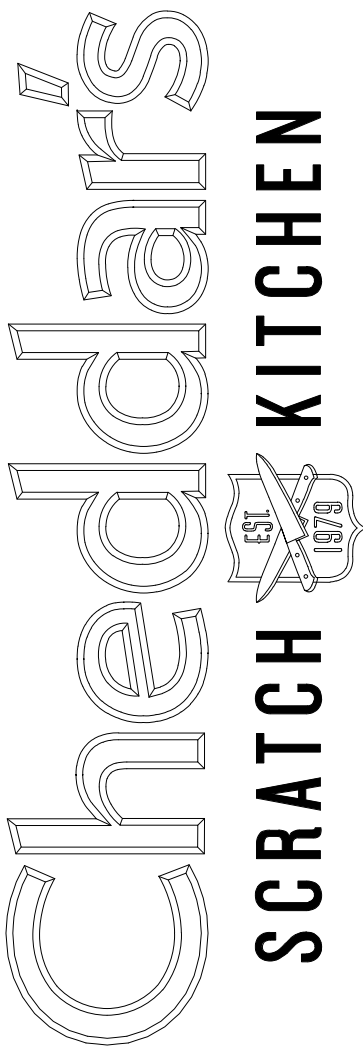
PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



REV 02: 04.18.2023



Issue Date: 02.15.2023

REVISION INFORMATION

1 04.04.2023

CITY COMMENTS

2 04.05.2023

COORDINATION COMMENTS

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

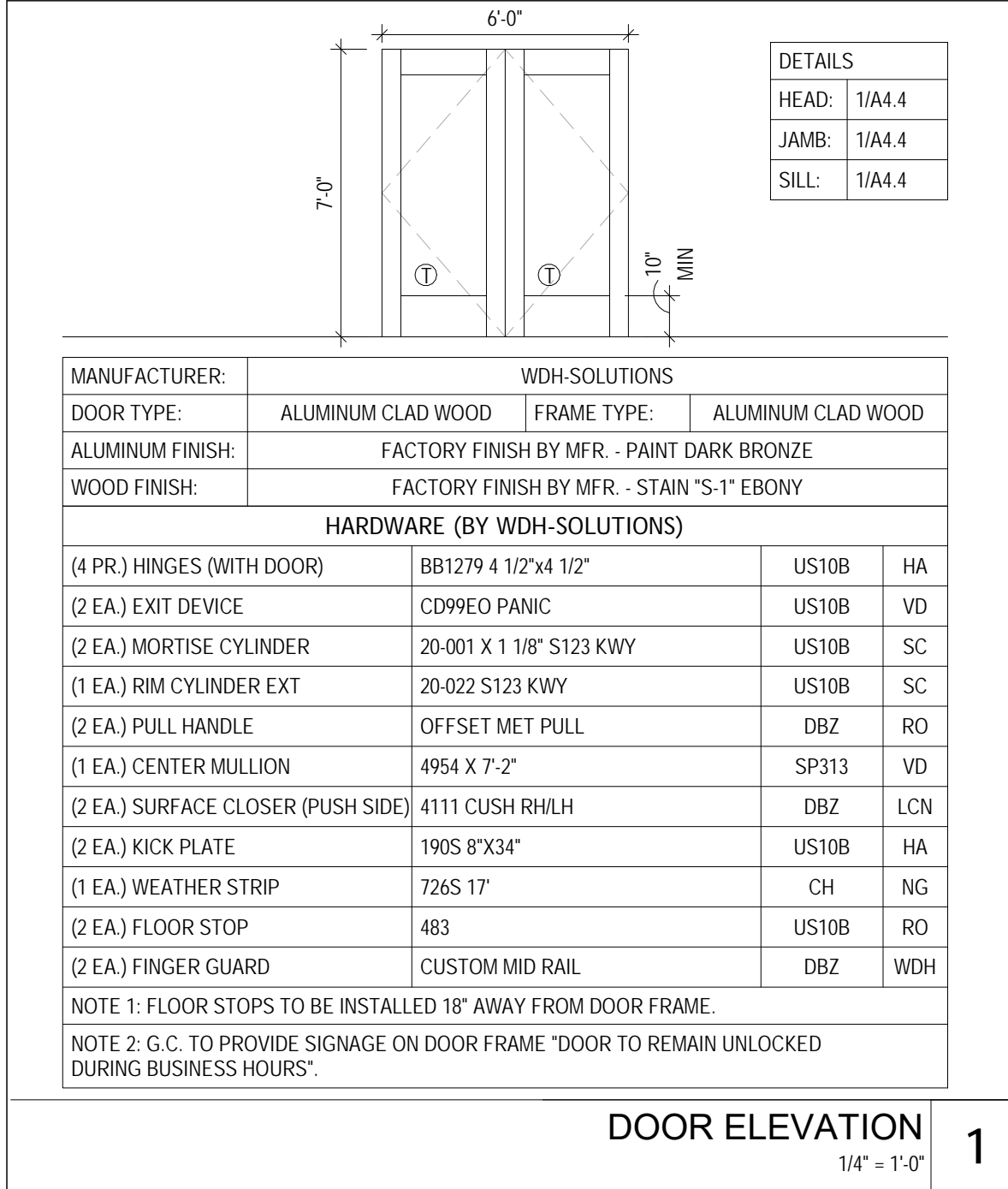
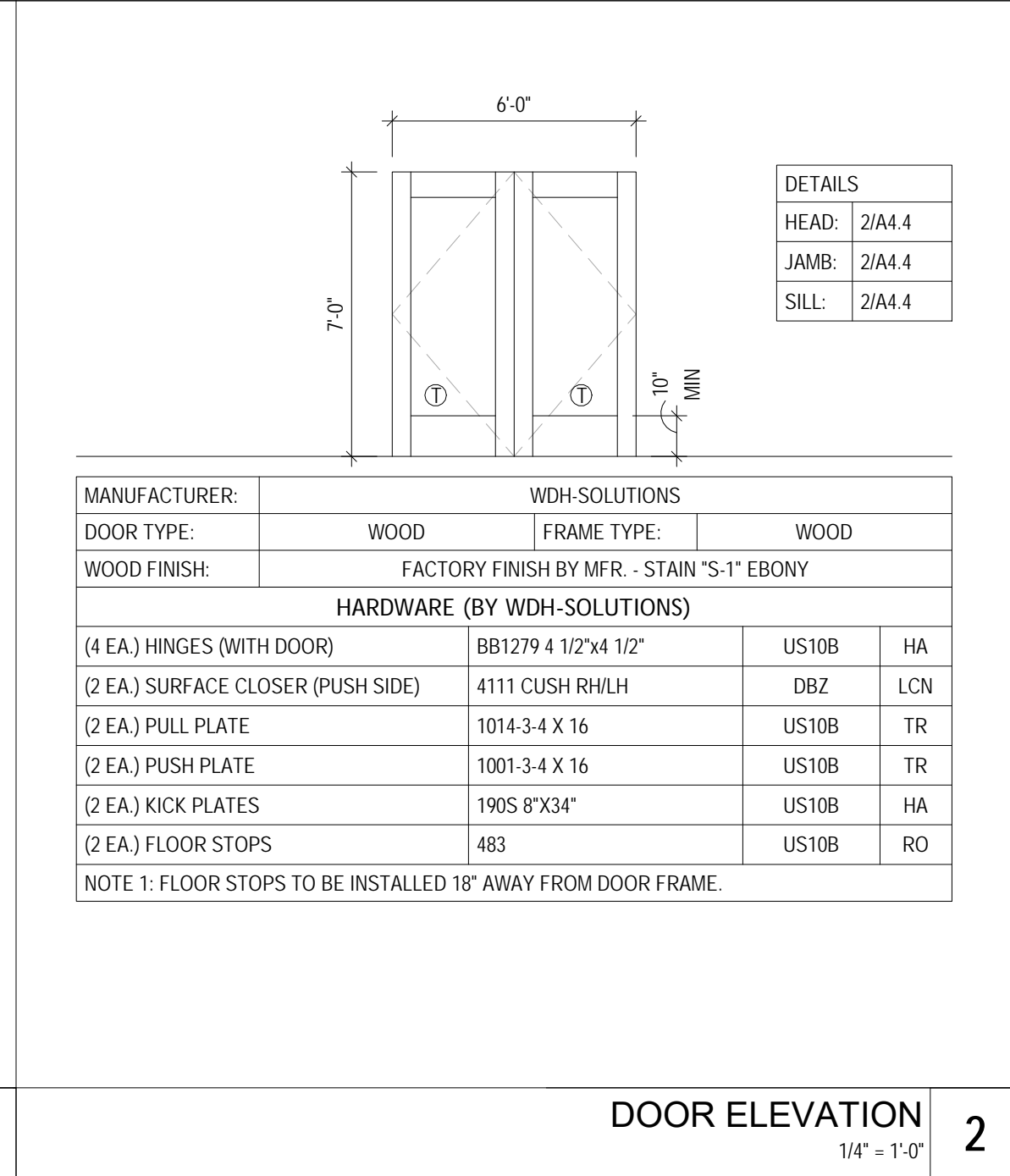
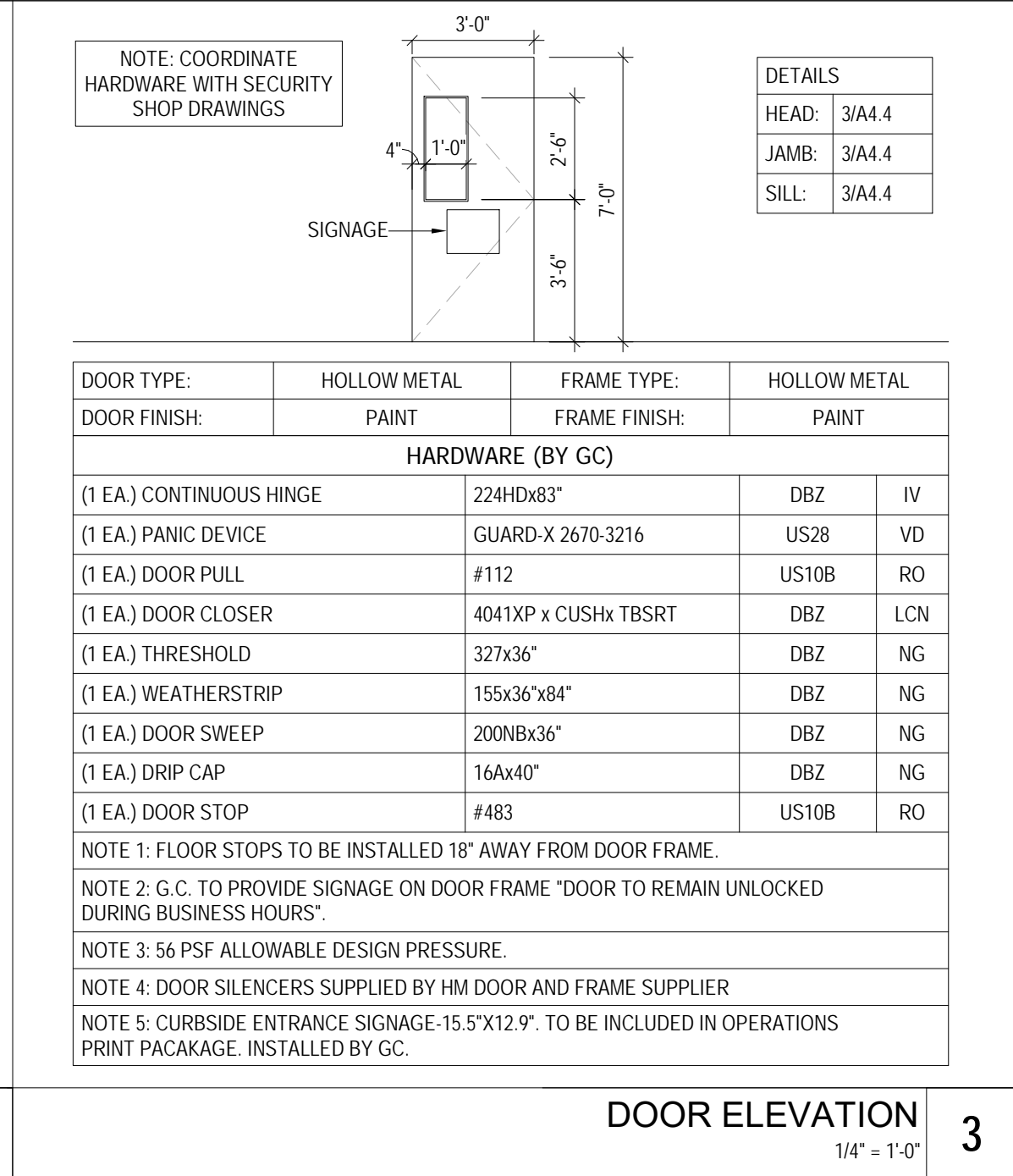
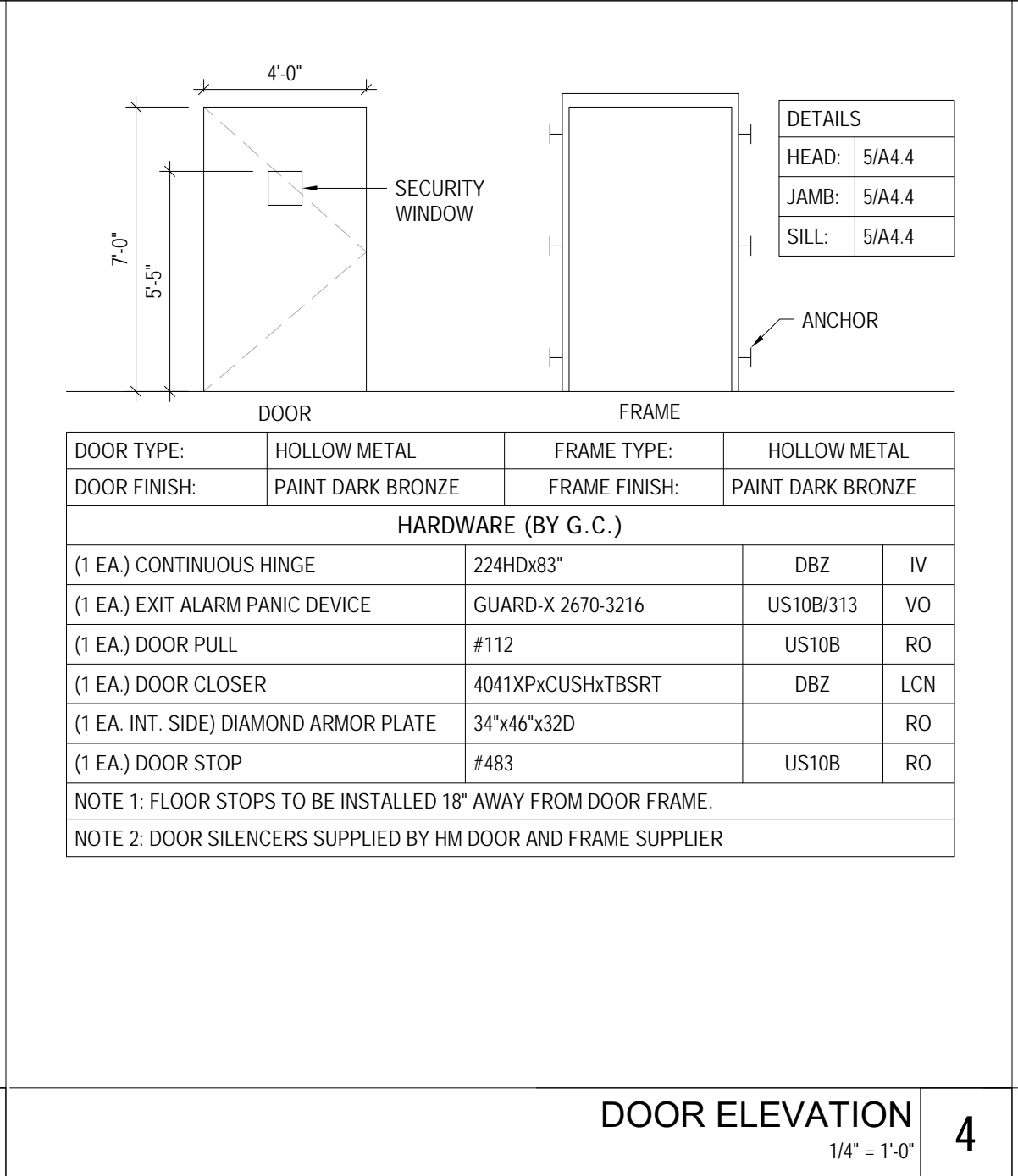
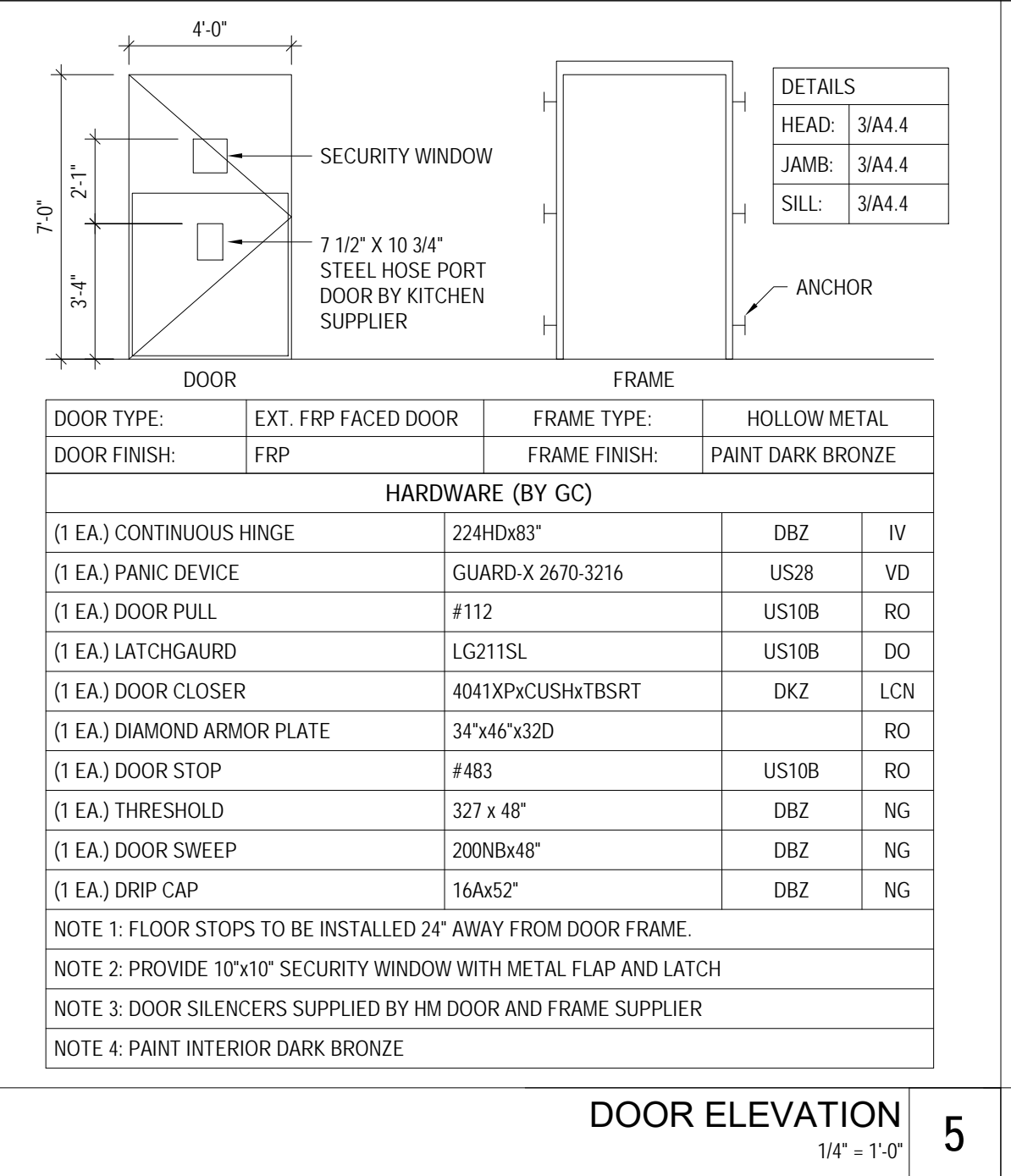
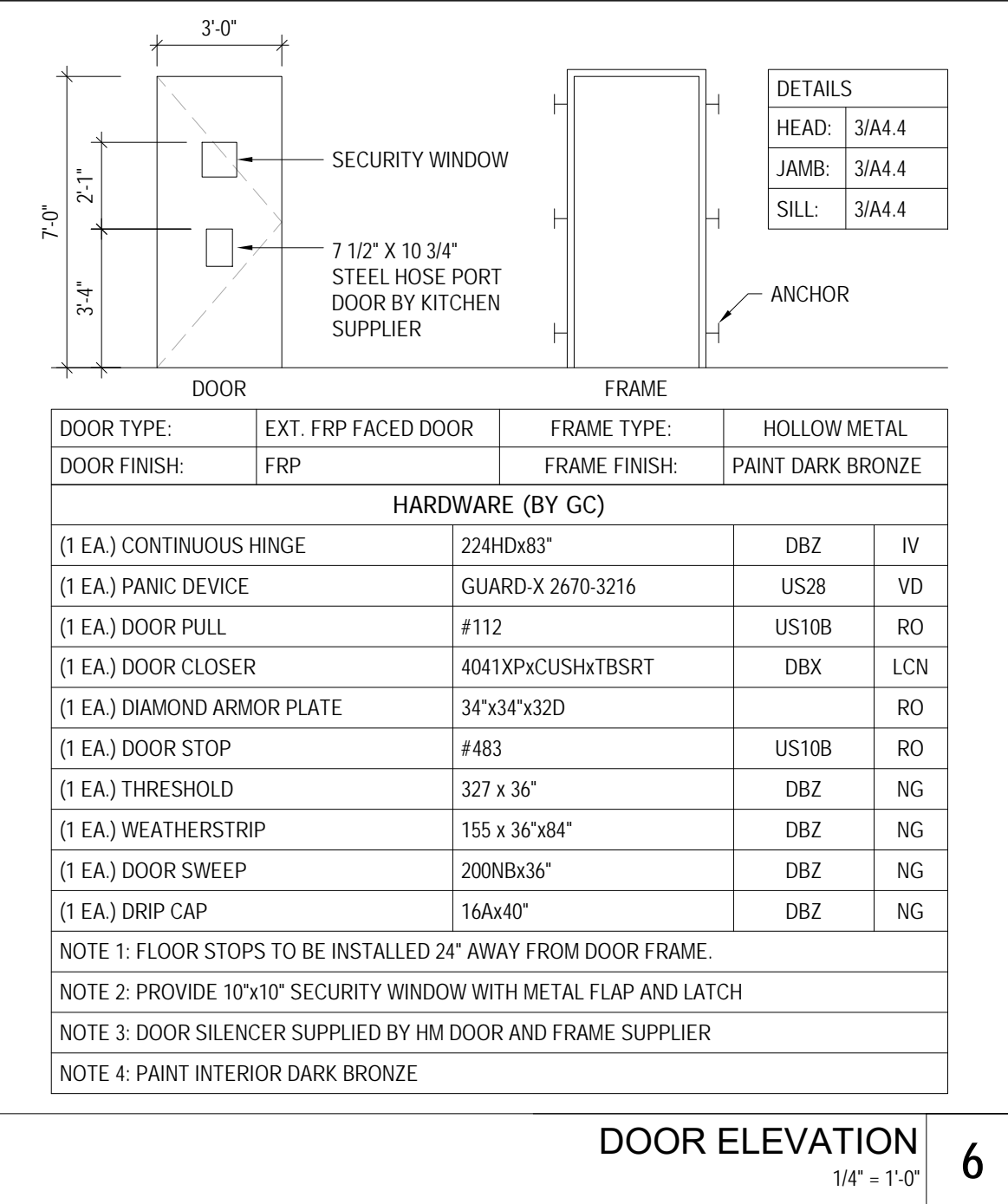
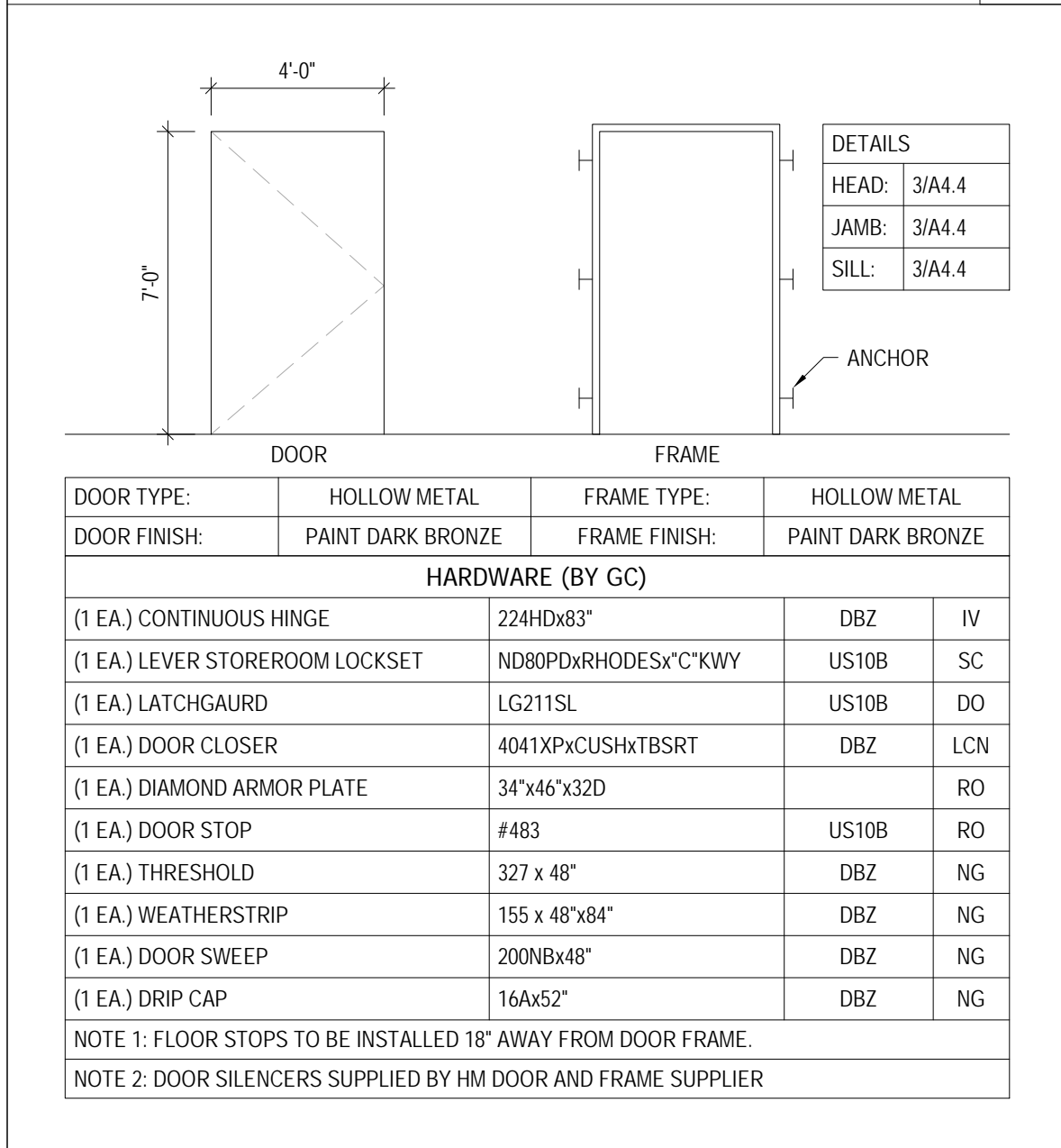
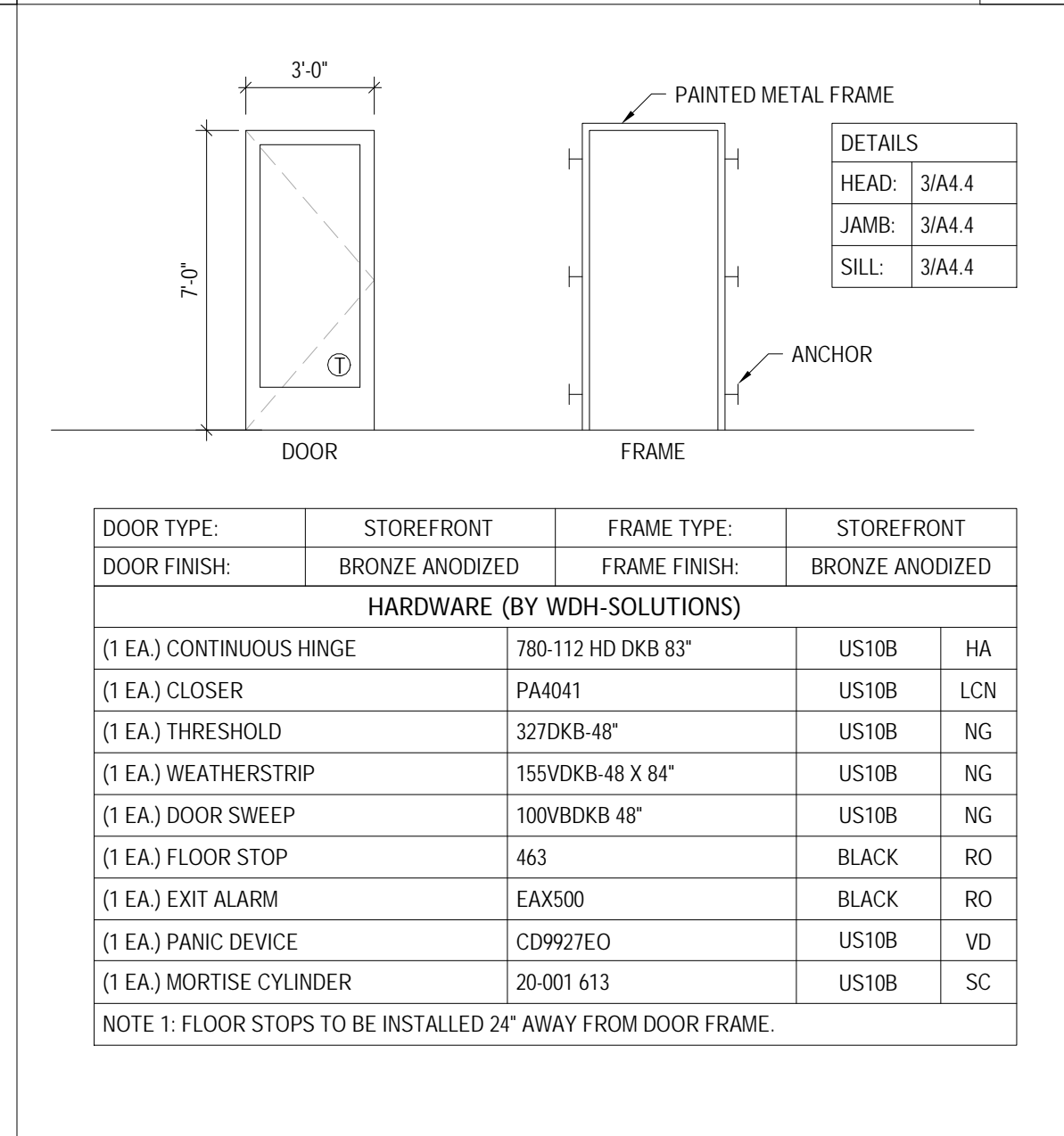
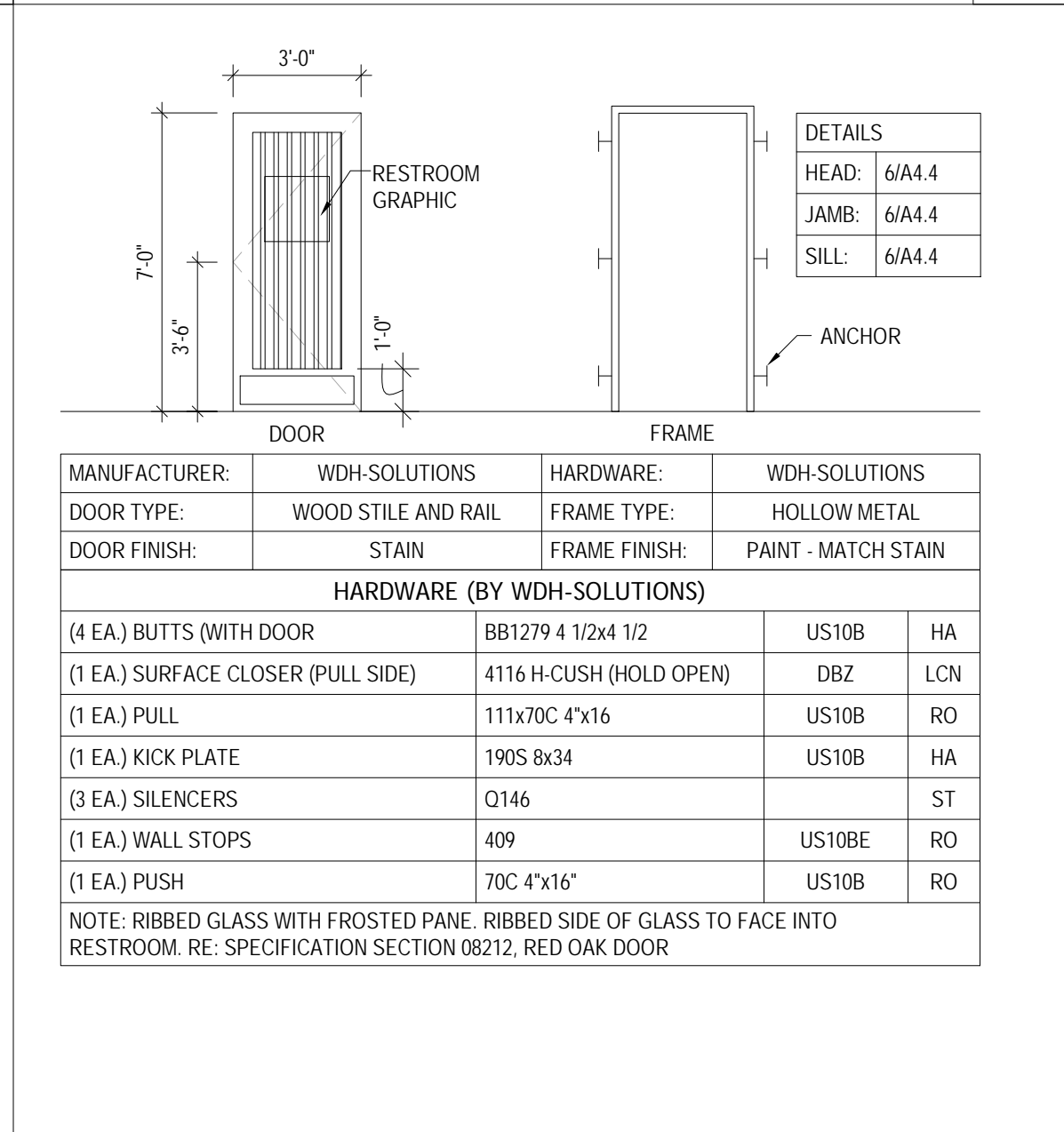
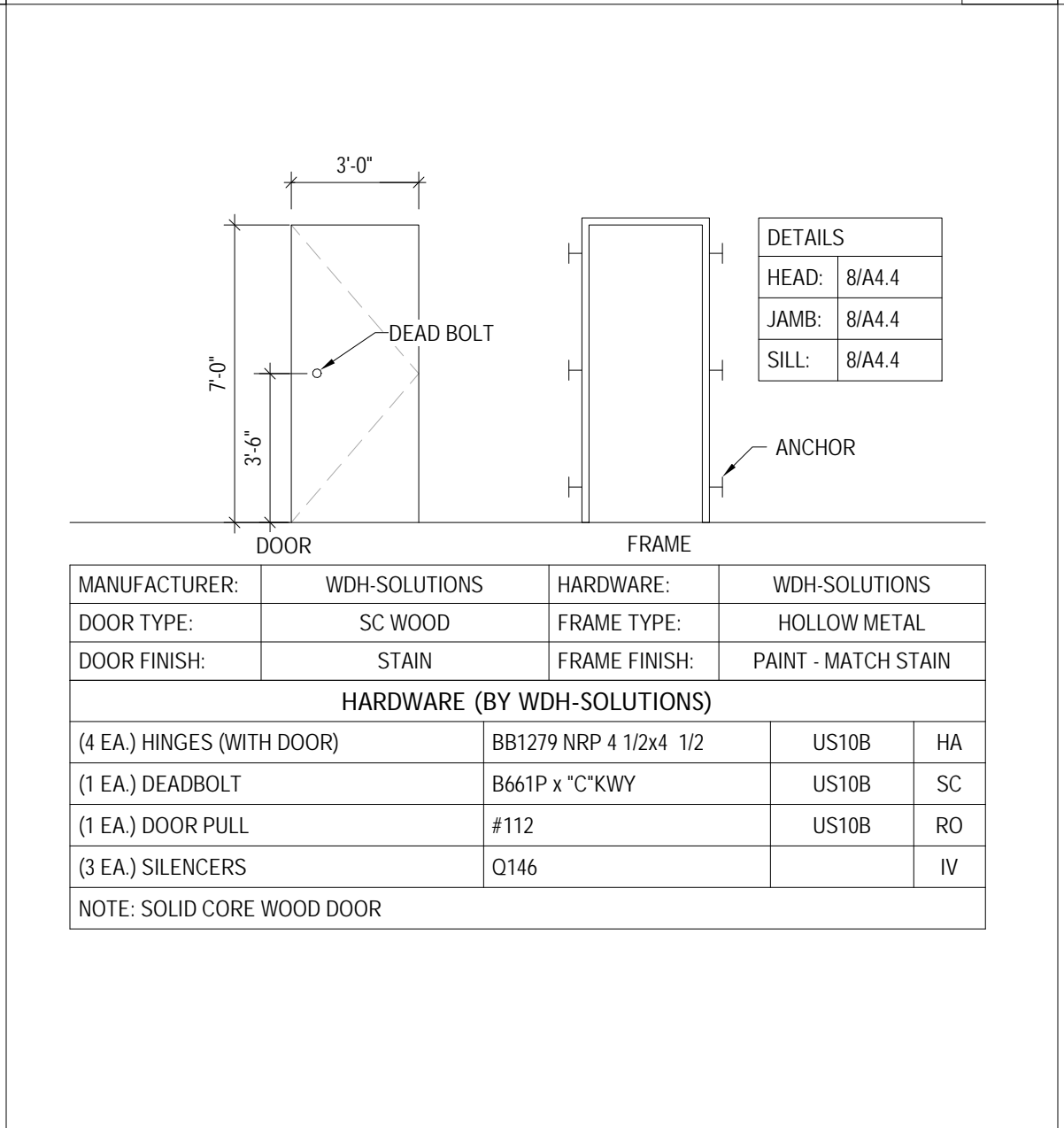
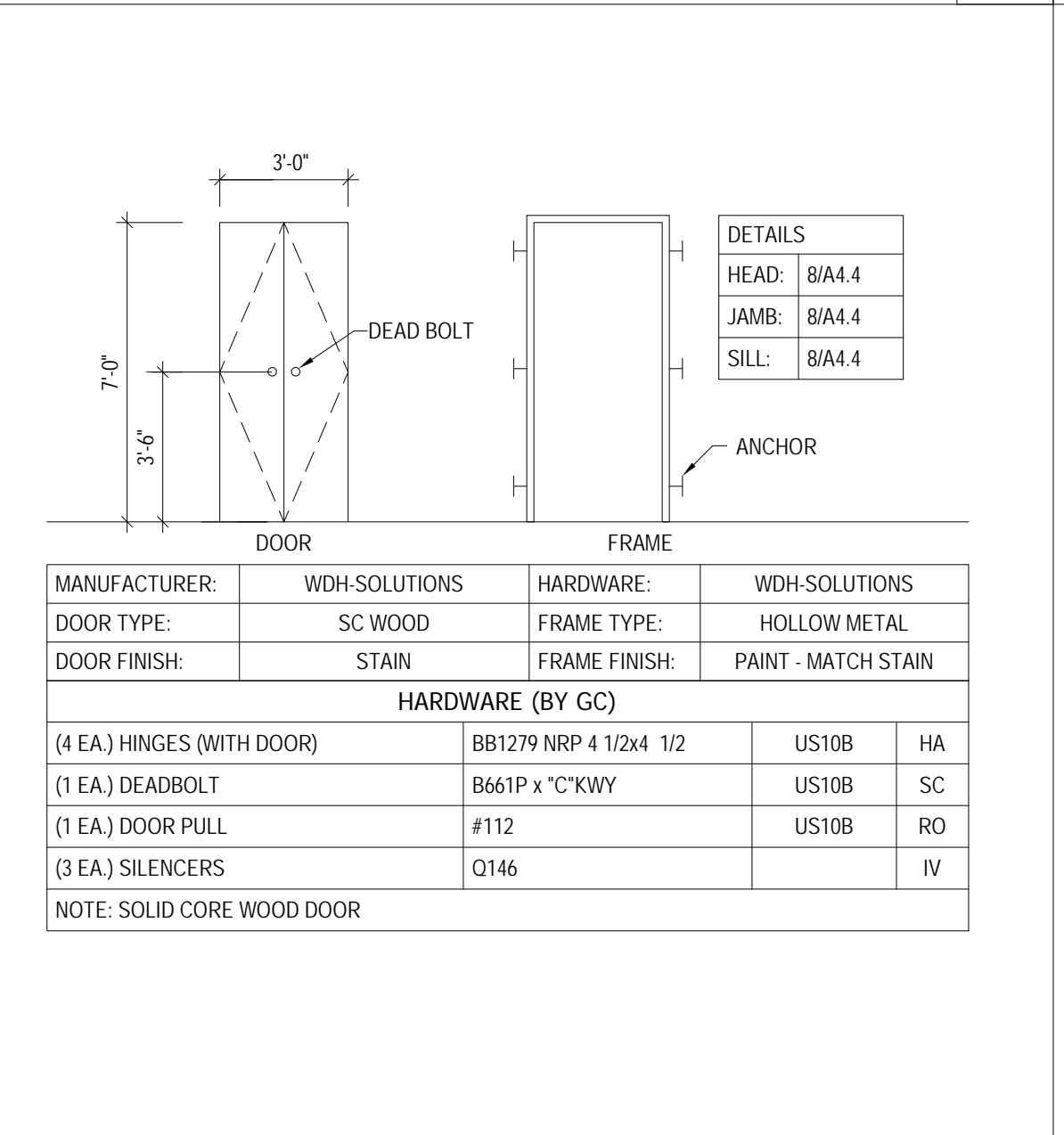
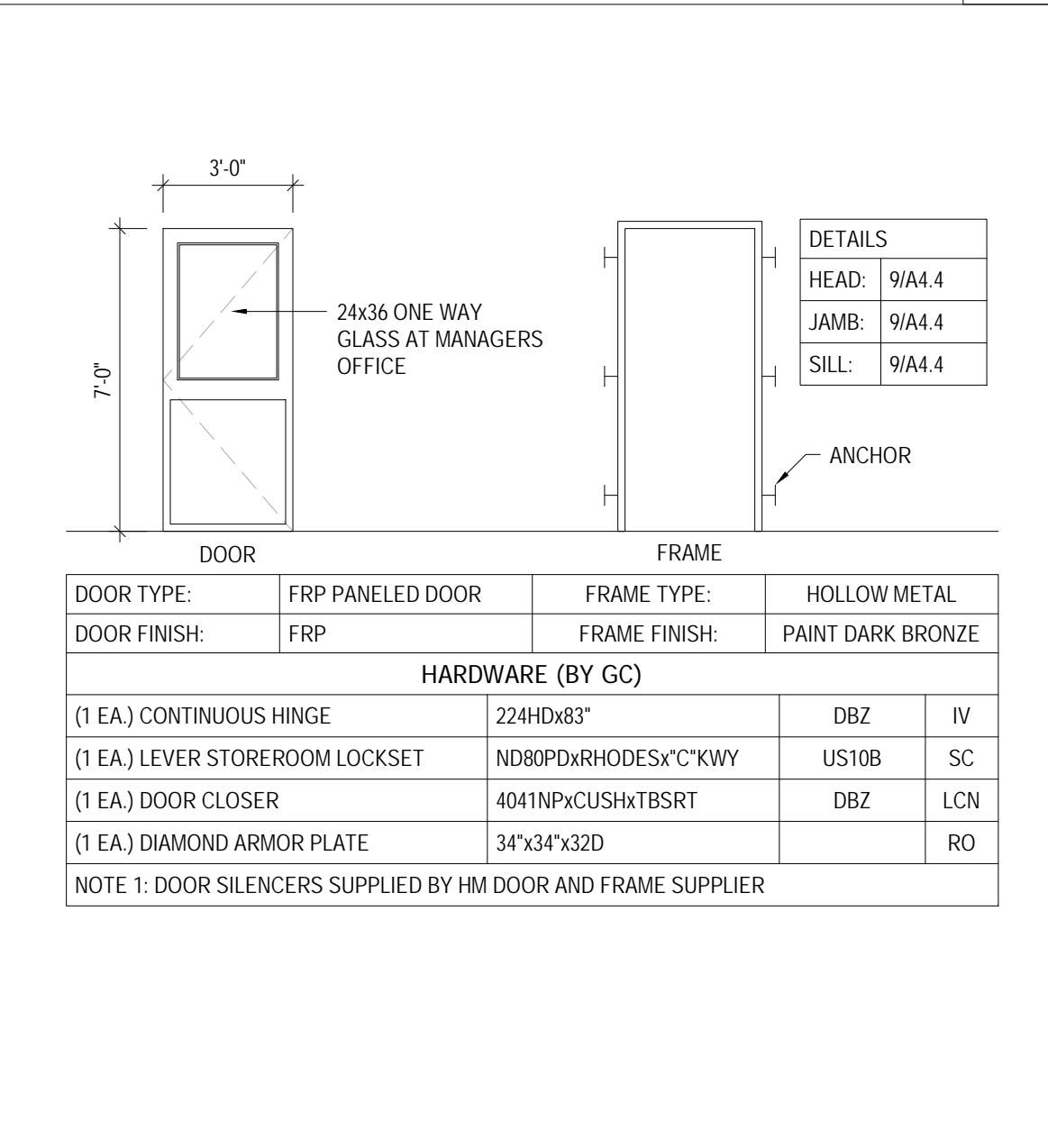
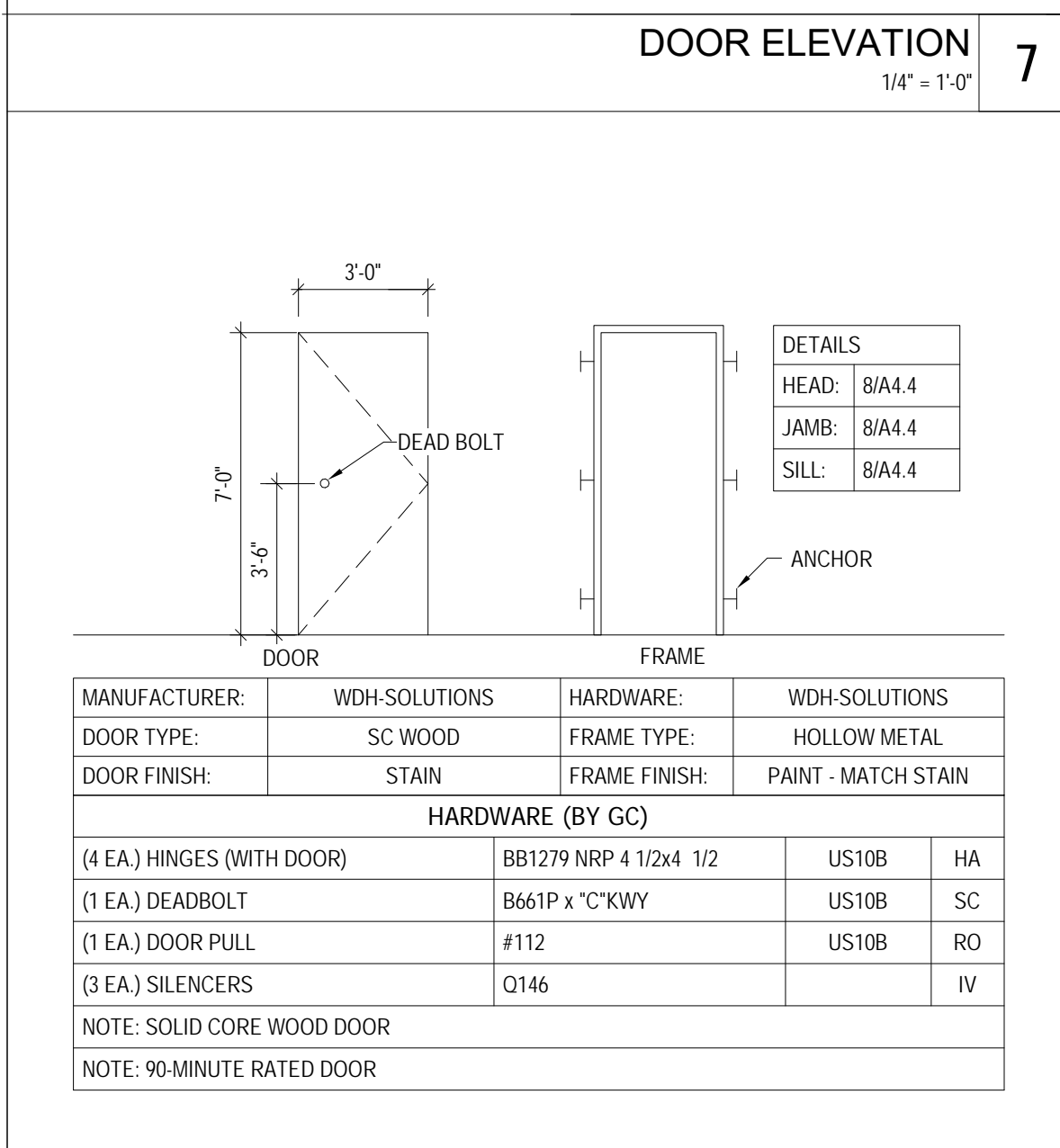
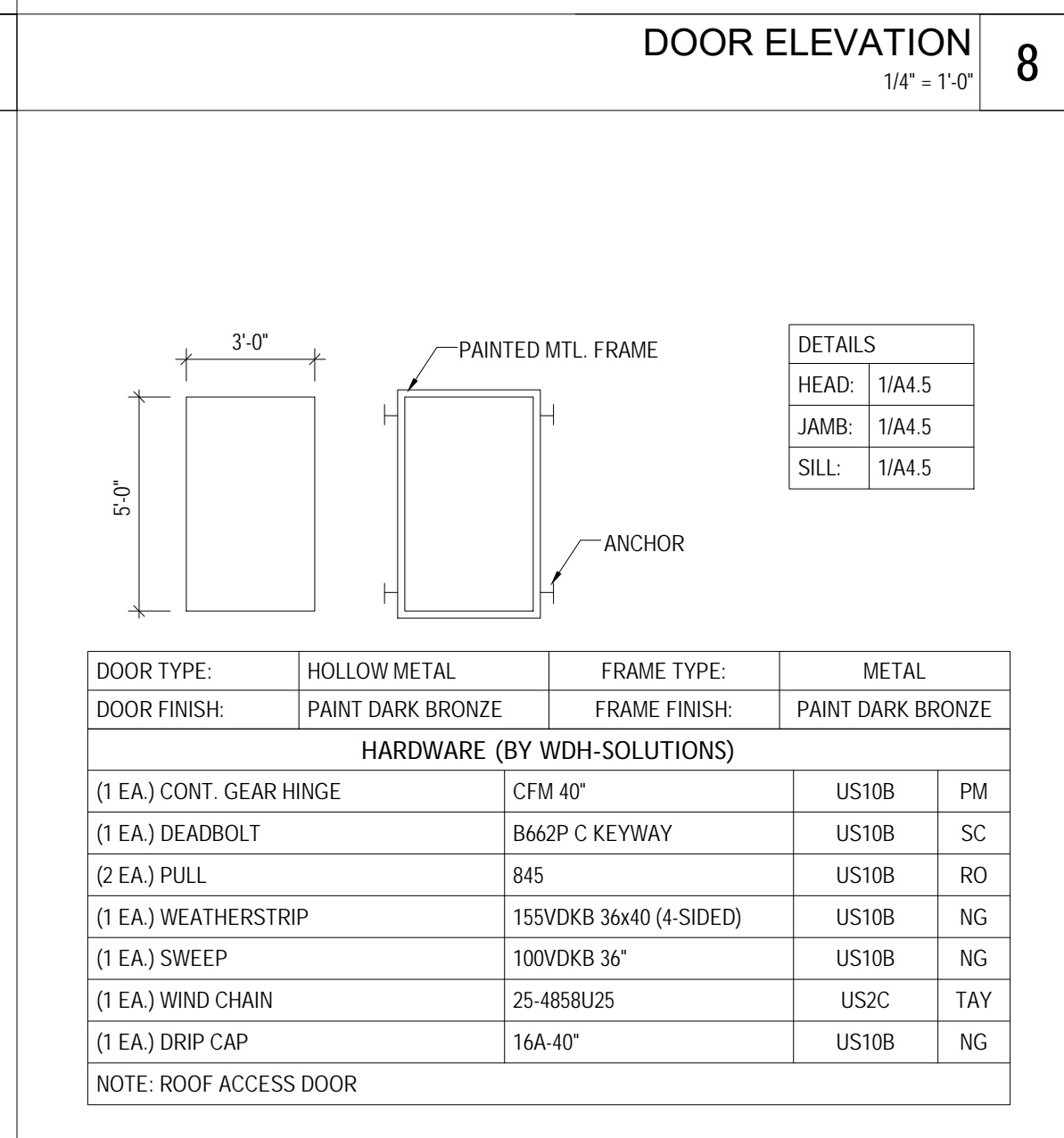
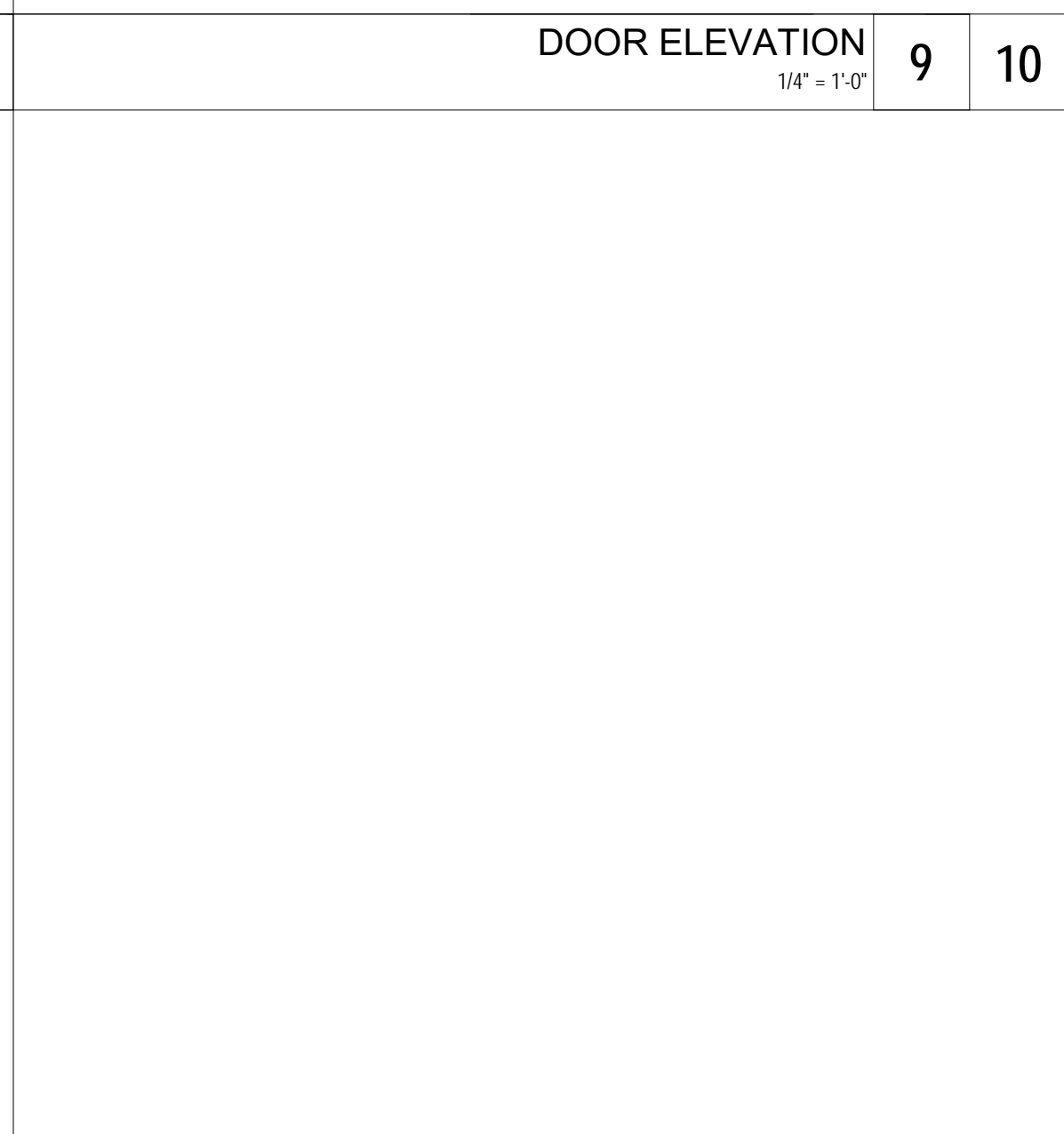

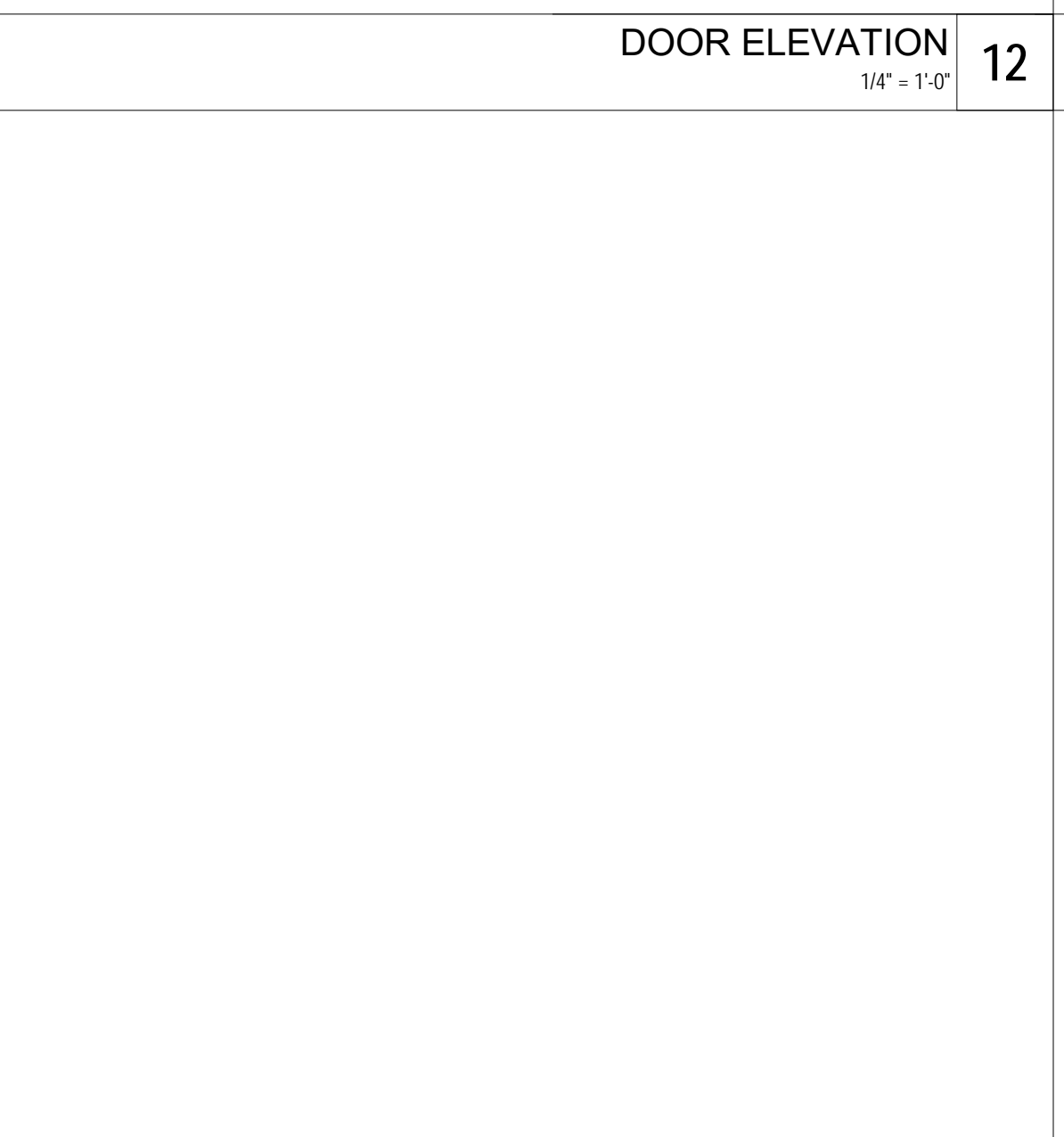
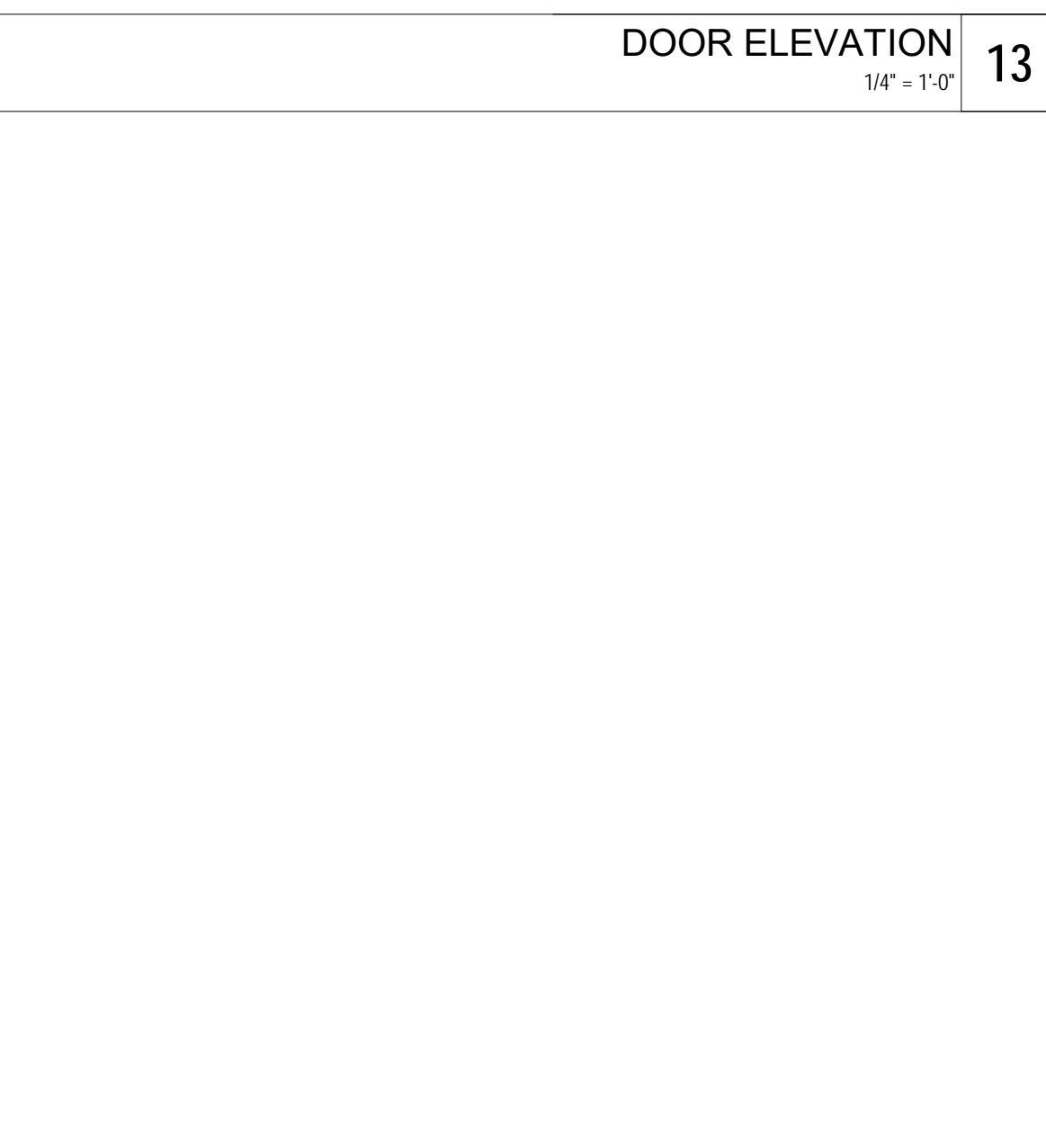
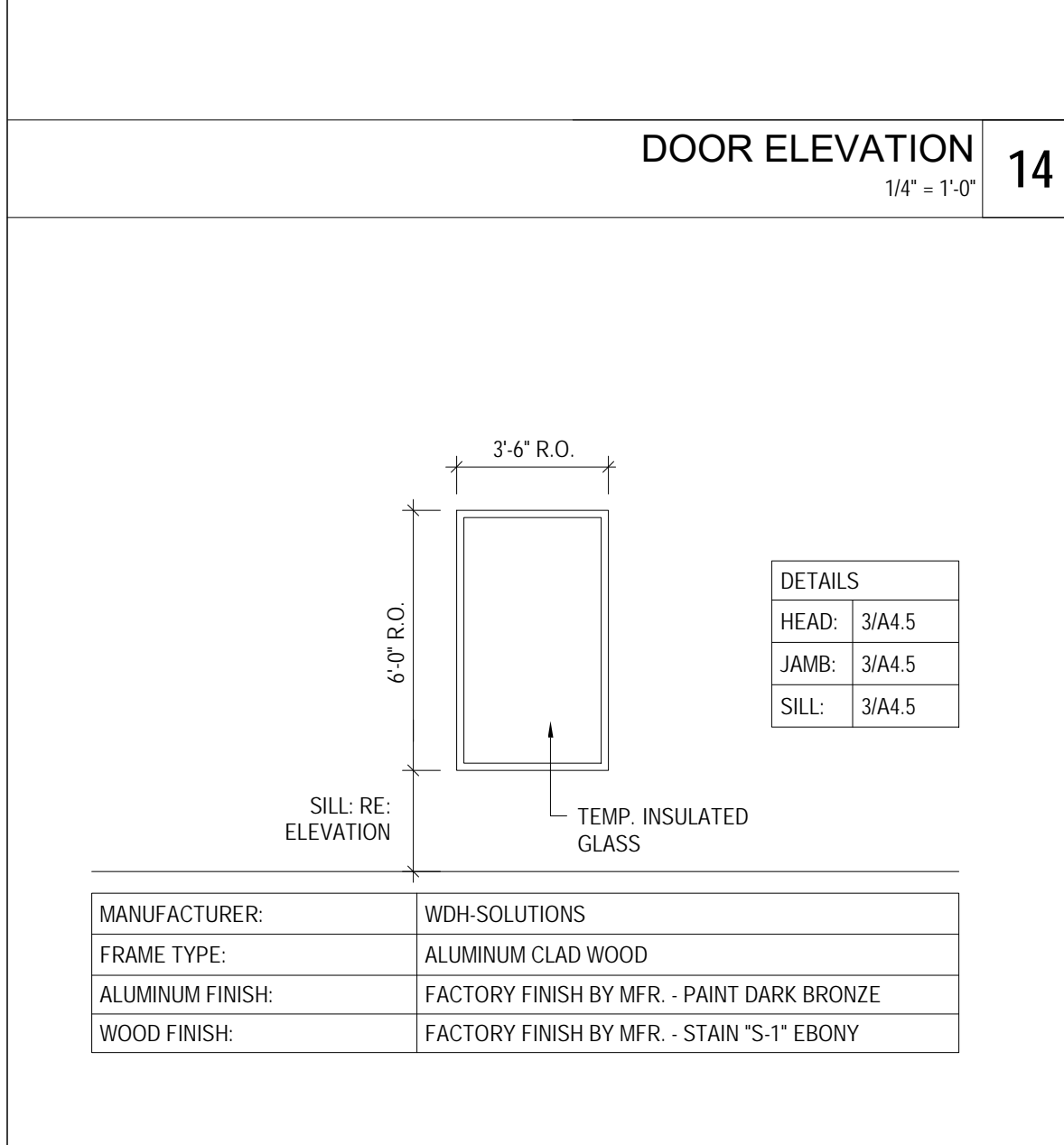
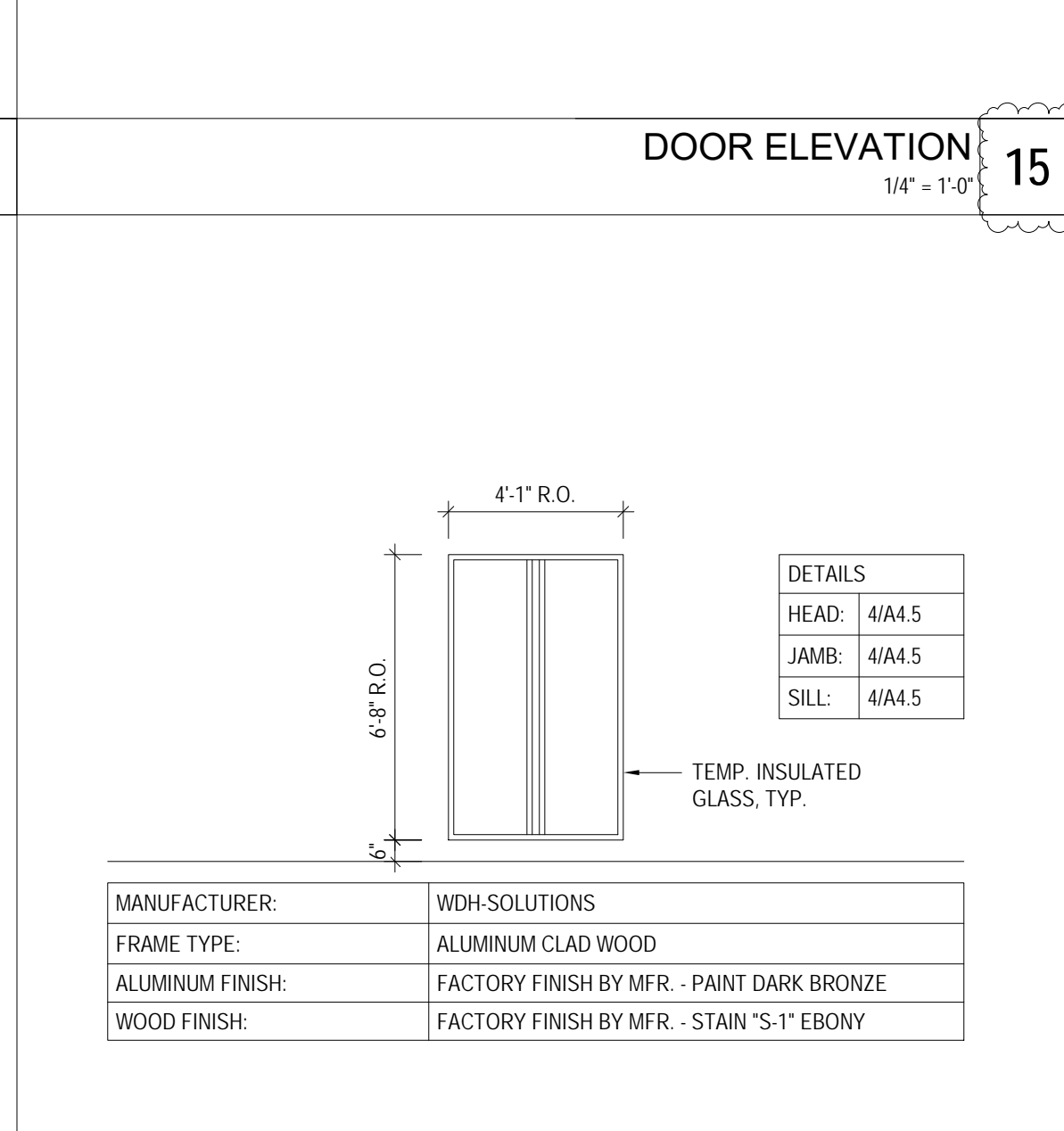
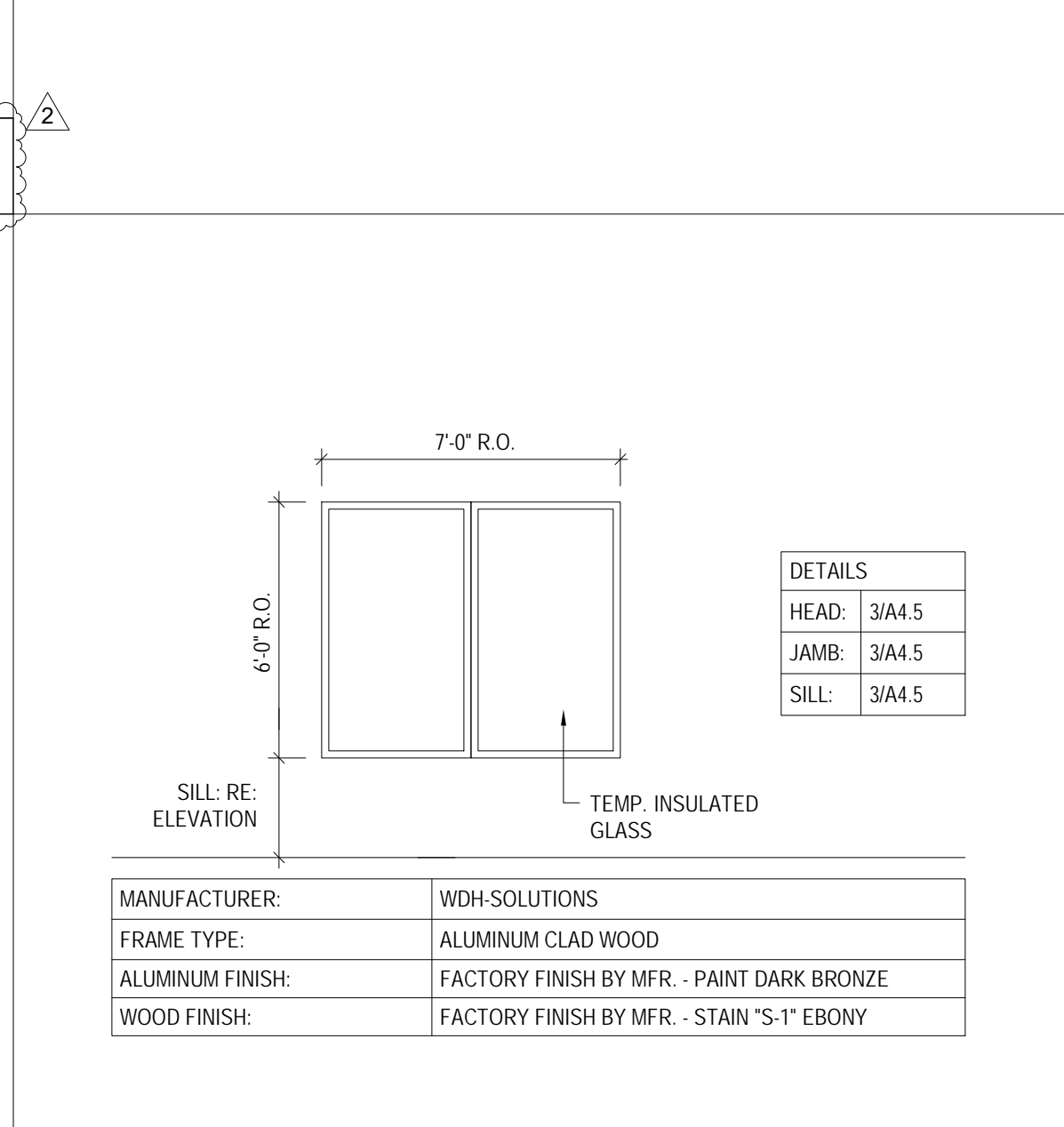
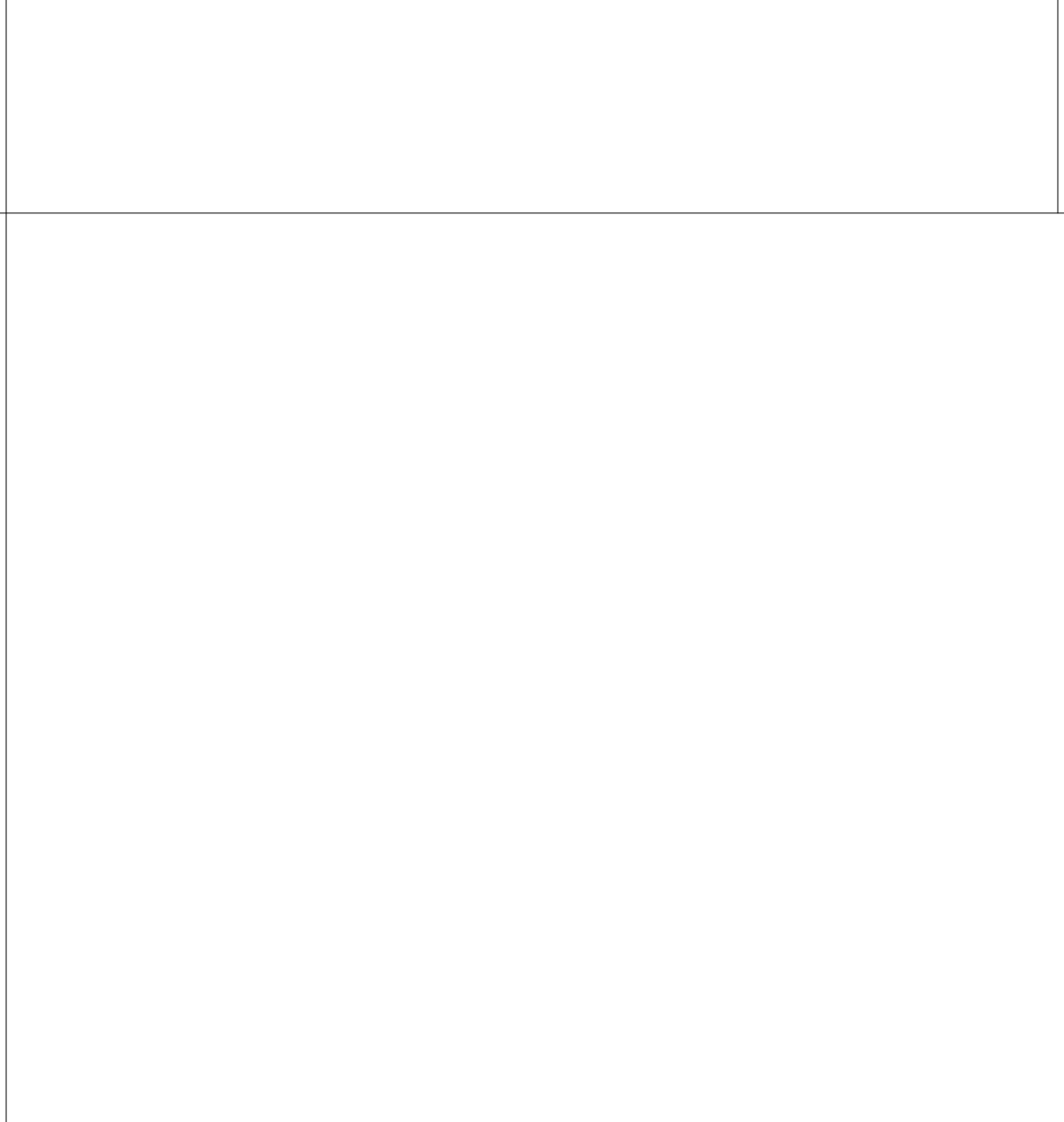

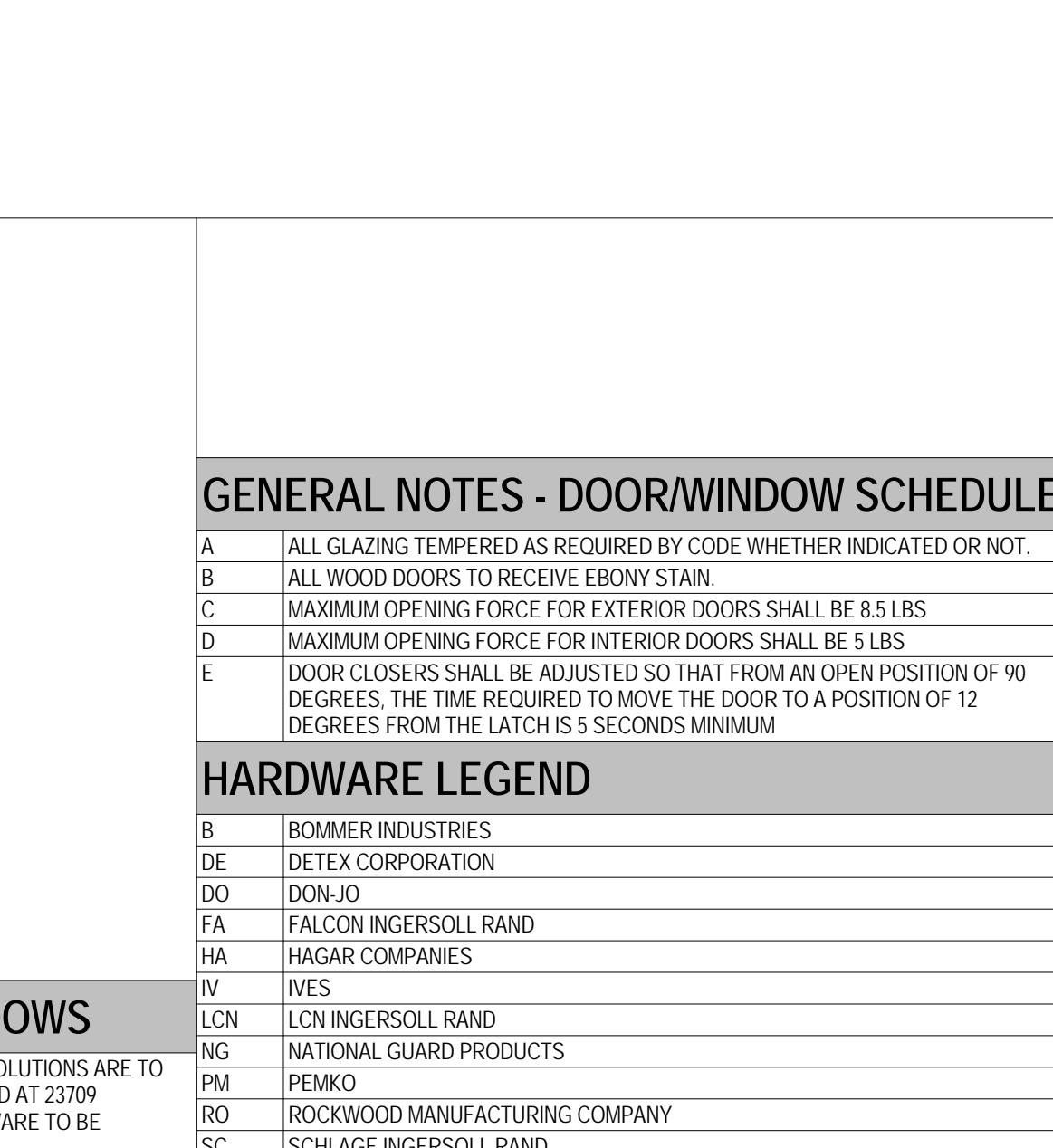




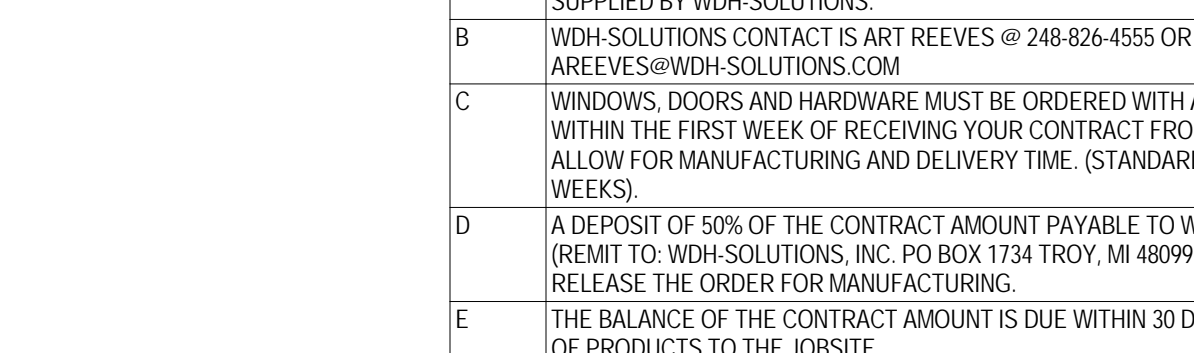

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578


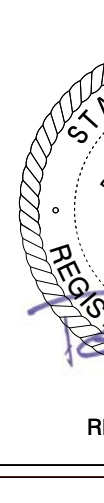
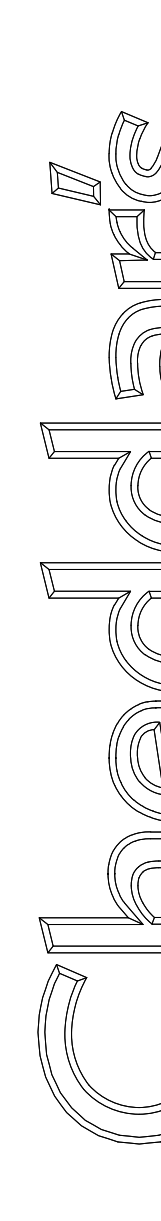
RIVERVIEW, FL

Drawing:

EXTERIOR FINISH
SCHEDULES

A4.2

	
6201 CAMPUS CIRCLE DRIVE E IRVING, TEXAS 75063 TEL: 972.670.1288 WWW.IDSTUDIO.COM	
PROJECT NUMBER DCH22007	
CLIENT: DARDEN RESTAURANTS, INC. 1000 DARDEN CENTER DR. ORLANDO, FL 32837 PHONE: 407.245.4000 www.darden.com	
 REV 02-04.18.2023	
	
Issue Date:	02.15.2023
REVISION INFORMATION	
1	04.04.2023
CITY COMMENTS	
2	04.05.2023
COORDINATION COMMENTS	
Restaurant #:	21K0037
CHEDDARS SCRATCH KITCHEN PROTO 18	
10150 BLOOMINGDALE AVE RIVERVIEW, FL 33578	
RIVERVIEW, FL	
Drawing: DOOR AND WINDOW SCHEDULE	
A4.3	

<div><div><div><div><div>INSULATION AS SPECIFIED</div><div>INTERIOR FINISHES AS SPECIFIED</div><div>METAL HEADER, RE: STRUCTURAL</div><div>1X4 STAINED WOOD TRIM</div><div>1X STAINED WOOD TRIM</div><div>FRAME AS SPECIFIED</div></div><div><div>STONE MASONRY AS SPECIFIED</div><div>WEATHER BARR AS SPECIFIED</div><div>SHEATHING AS SPECIFIED</div><div>ROUGH OPENING 107'-1 11/16"</div><div>BACKER ROD AND SEALANT, TYP.</div><div>ALUMINUM CLADDING BY MFR.</div><div>GLAZING AS SPECIFIED</div></div></div><div><div>HEAD</div></div><div><div><div>FLOORING AS SCHEDULED</div><div>CONCRETE FOUNDATION</div></div><div><div>ALUMINUM CLADDING BY MFR.</div><div>DOOR AS SCHEDULED</div><div>THRESHOLD AS SPECIFIED SET IN FULL BED OF MASTIC</div></div></div><div><div>SILL</div></div><div><div><div>GLAZING AS SPECIFIED</div><div>ALUMINUM CLADDING BY MFR.</div><div>STONE AS SPECIFIED</div><div>DOOR AS SPECIFIED</div><div>FRAME AS SPECIFIED</div><div>1X STAINED WOOD TRIM, TYP.</div><div>WALL FINISH AS SPECIFIED</div><div>METAL FRAMING AS SPECIFIED</div><div>1X4 STAINED WOOD TRIM, TYP.</div></div><div><div>JAMB</div></div></div></div></div>	<div><div><div>INSULATION AS SPECIFIED</div><div>WALL FINISH AS SPECIFIED</div><div>METAL HEADER, RE: STRUCTURAL</div><div>1X4 STAINED WOOD TRIM</div><div>1X STAINED WOOD TRIM</div><div>FRAME AS SPECIFIED</div></div><div><div>WALL FINISH AS SPECIFIED</div><div>SHEATHING AS SPECIFIED</div><div>ROUGH OPENING 107'-1 11/16"</div><div>DOOR AS SPECIFIED</div><div>GLAZING AS SPECIFIED</div></div></div> <div><div>HEAD</div></div> <div><div><div>FLOORING AS SCHEDULED</div><div>CONCRETE FOUNDATION</div></div><div><div>DOOR AS SCHEDULED</div><div>THRESHOLD AS SPECIFIED SET IN FULL BED OF MASTIC</div></div></div> <div><div>SILL</div></div> <div><div><div>GLAZING AS SPECIFIED</div><div>DOOR AS SPECIFIED</div><div>FRAME AS SPECIFIED</div><div>1X STAINED WOOD TRIM, TYP.</div><div>WALL FINISH AS SPECIFIED</div><div>METAL FRAMING AS SPECIFIED</div><div>1X4 STAINED WOOD TRIM, TYP.</div></div><div><div>JAMB</div></div></div>	<div><div><div>INSULATION AS SPECIFIED</div><div>WALL FINISH AS SPECIFIED</div><div>1X4 STAINED WOOD TRIM, WHERE OCCURS</div></div><div><div>WALL FINISH AS SPECIFIED</div><div>EXTERIOR SHEATHING, RE: STRUCTURAL</div><div>METAL HEADER, RE: STRUCTURAL</div><div>PROVIDE BACKER ROD AND SEALANT</div><div>ROUGH OPENING 107'-2"</div><div>RAIN DRIP AS SPEC'D</div><div>H.M. FRAME AND DOOR AS SCHEDULED</div></div></div> <div><div>HEAD</div></div> <div><div><div>FLOOR TILE AS SPEC'D</div><div>DOOR SWEEP AS SPEC'D</div><div>DOOR THRESHOLD AS SPEC'D, SET IN FULL BED OF MASTIC</div></div><div><div>SILL</div></div><div><div><div>METAL FRAMING AS SPECIFIED</div><div>2"</div><div>6" V.I.F.</div><div>WALL FINISH AS SPECIFIED</div><div>WOOD FRAMING AS SPECIFIED</div><div>H.M. DOOR AS SCHEDULED</div></div><div><div>JAMB</div></div></div></div>			
FRAME DETAILS 1 1/2" = 1'-0"	1	FRAME DETAILS 1 1/2" = 1'-0"	2	FRAME DETAILS 1 1/2" = 1'-0"	3
		<div><div><div>CMU AS SCHEDULED, RE: STRUCTURAL FOR REINFORCING</div><div>CMU LINTEL, RE: STRUCTURAL</div><div>H.M. FRAME, FILL SOLID WITH GROUT</div><div>7 3/4"</div><div>ROUGH OPENING 107'-4"</div><div>H.M. DOOR AS SCHEDULED</div></div><div><div>HEAD</div></div><div><div><div>H.M. FRAME FILL SOLID WITH GROUT</div><div>2"</div><div>7 3/4"</div><div>CMU AS SCHEDULED, RE: STRUCTURAL</div></div><div><div>JAMB</div></div></div></div>		<div><div><div>METAL HEADER, RE: STRUCTURAL</div><div>DOOR AS SCHEDULED</div></div><div><div>WALL FINISH AS SPECIFIED</div><div>1X4 STAINED WOOD TRIM</div><div>ROUGH OPENING 107'-2"</div><div>H.M. FRAME WITH FRAME CLIPS AS SCHEDULED</div></div></div> <div><div>HEAD</div></div> <div><div><div>DOOR AS SCHEDULED</div><div>FLOOR TILE AS SPEC'D</div></div><div><div>SILL</div></div><div><div><div>1X4 STAINED WOOD TRIM</div><div>5 1/2" V.I.F.</div><div>WALL FINISH AS SPECIFIED</div><div>WOOD FRAMING AS SPECIFIED</div><div>H.M. FRAME WITH FRAME CLIPS AS SCHEDULED</div><div>DOOR AS SCHEDULED</div><div>METAL FRAMING AS SPECIFIED</div></div><div><div>JAMB</div></div></div></div>	
OPEN	4	FRAME DETAILS 1 1/2" = 1'-0"	5	FRAME DETAILS 1 1/2" = 1'-0"	6
		<div><div><div>METAL HEADER, RE: STRUCTURAL</div><div>DOOR AS SCHEDULED</div></div><div><div>WALL FINISH AS SPECIFIED</div><div>1X4 STAINED WOOD TRIM</div><div>ROUGH OPENING 107'-2"</div><div>H.M. FRAME WITH FRAME CLIPS AS SCHEDULED</div></div></div> <div><div>HEAD</div></div> <div><div><div>DOOR AS SCHEDULED</div><div>FLOOR TILE AS SPEC'D</div></div><div><div>SILL</div></div><div><div><div>METAL FRAMING AS SPECIFIED</div><div>1X4 STAINED WOOD TRIM</div><div>H.M. FRAME WITH FRAME CLIPS AS SCHEDULED</div><div>WALL FINISH AS SPECIFIED</div><div>DOOR AS SCHEDULED</div><div>1X4 STAINED WOOD TRIM</div></div><div><div>JAMB</div></div></div></div>		<div><div><div>METAL HEADER, RE: STRUCTURAL</div><div>DOOR AS SCHEDULED</div></div><div><div>WALL FINISH AS SPECIFIED</div><div>HEADER 107'-2"</div><div>H.M. FRAME WITH FRAME CLIPS AS SCHEDULED</div></div></div> <div><div>HEAD</div></div> <div><div><div>FLOOR TILE AS SPEC'D</div></div><div><div>SILL</div></div><div><div><div>6 3/4" V.I.F.</div><div>2"</div><div>H.M. FRAME WITH FRAME CLIPS AS SCHEDULED</div><div>WALL FINISH AS SPECIFIED</div><div>METAL FRAMING AS SPECIFIED</div><div>DOOR AS SCHEDULED</div></div><div><div>JAMB</div></div></div></div>	
OPEN	7	FRAME DETAILS 1 1/2" = 1'-0"	8	FRAME DETAILS 1 1/2" = 1'-0"	9

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6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75063
TEL: 972.870.1288
WWW.IDSTUDIO4.COM

PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

STATE OF FLORIDA
JUSTY A. RIEBE
AR98116
REGISTERED ARCHITECT

REV 02: 04.18.2023

Cheddar's
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1 04.04.2023
CITY COMMENTS

2 04.05.2023
COORDINATION COMMENTS

Restaurant #: 21K0037

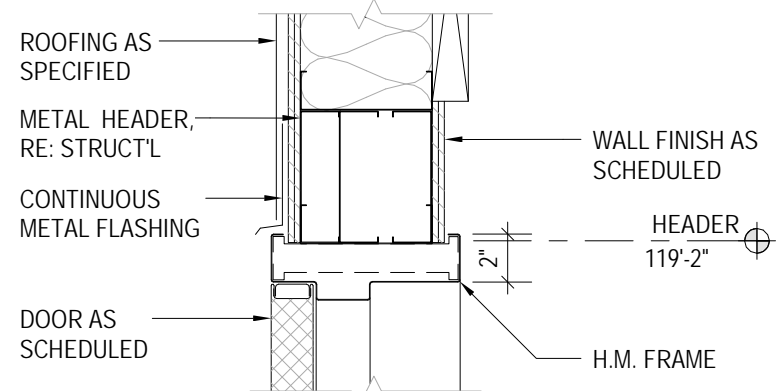
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

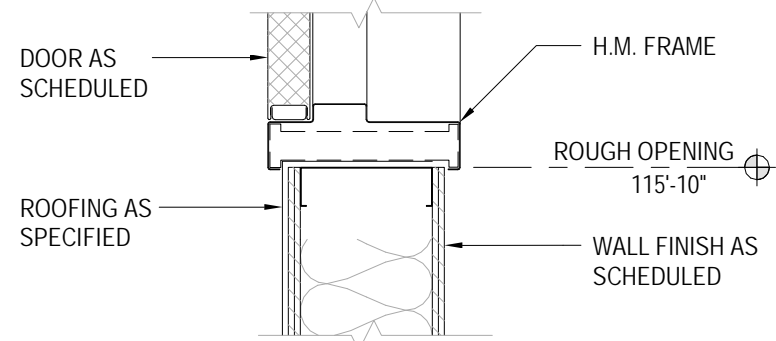
RIVERVIEW, FL

Drawing:
DOOR AND
WINDOW DETAILS

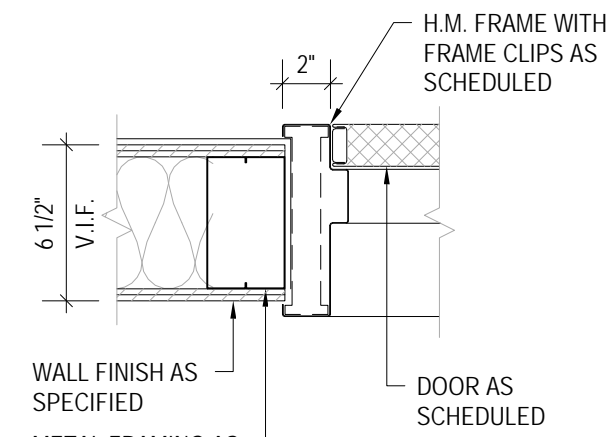
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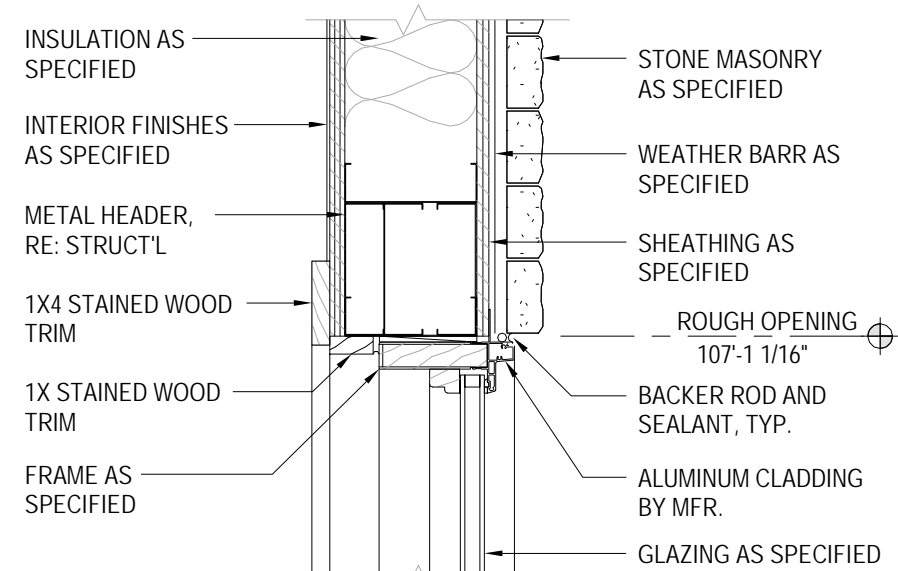
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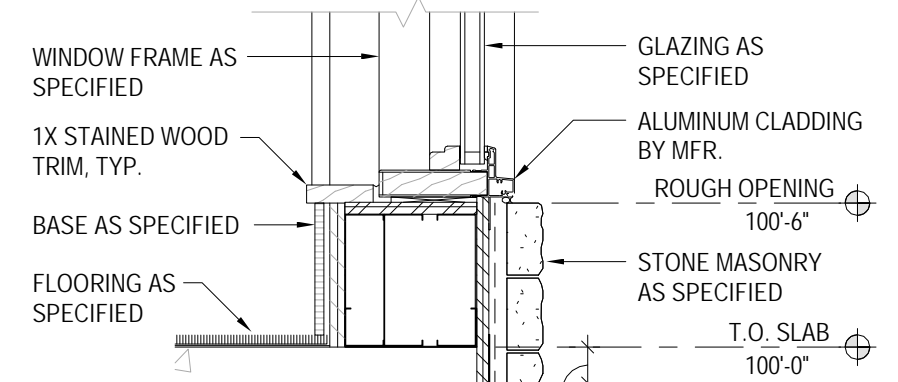
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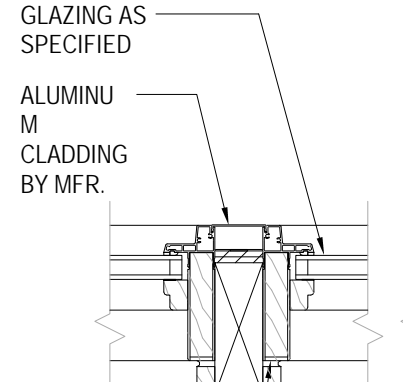
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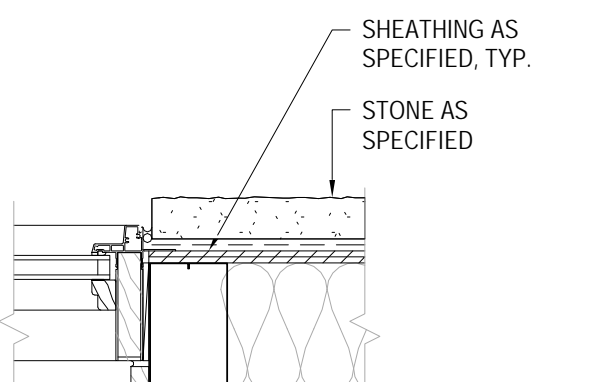
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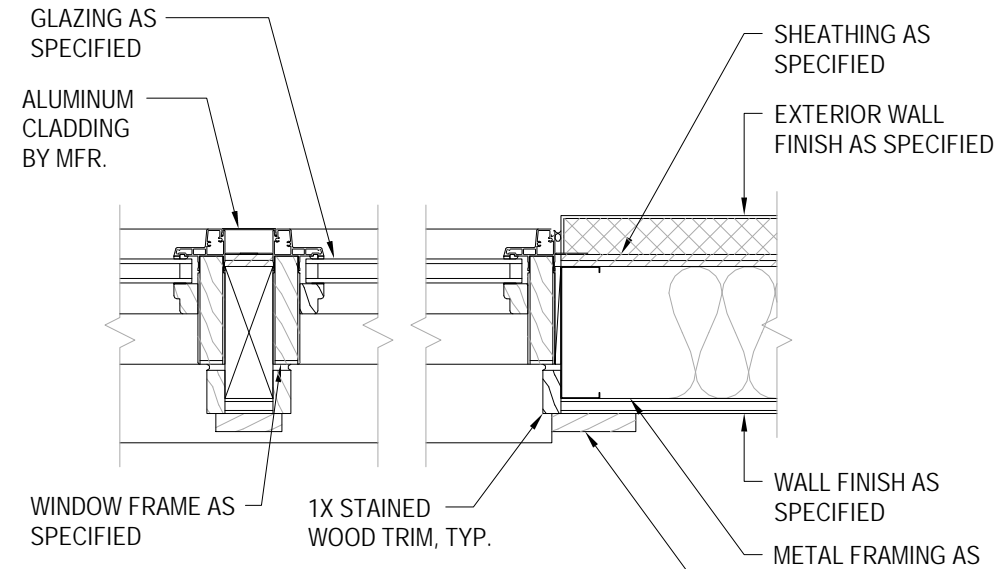
SILL



MULLION

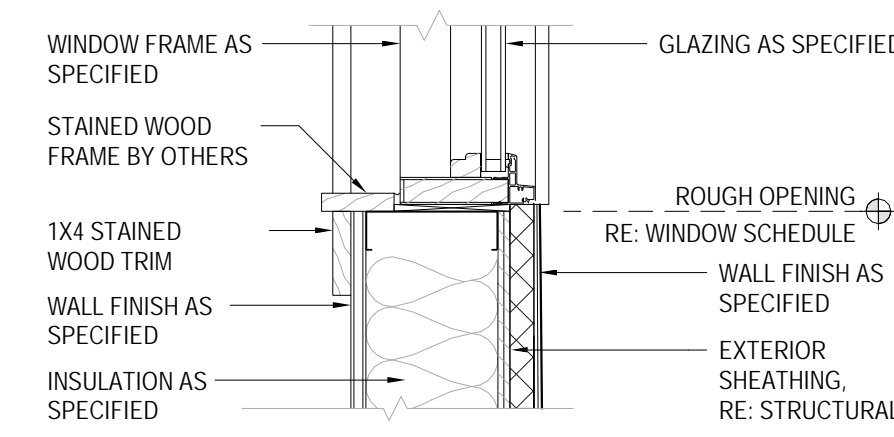


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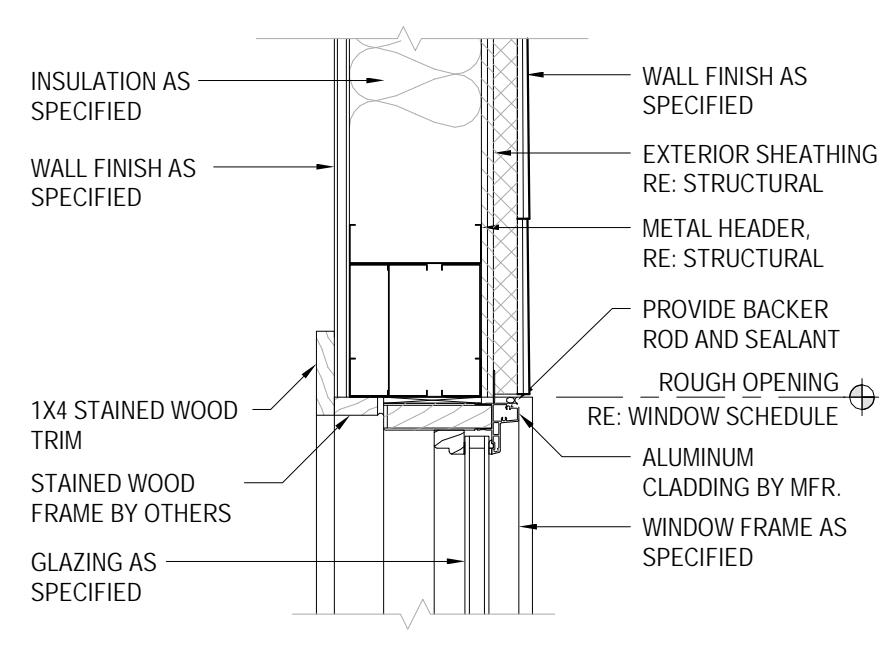


MULLION

JAMB



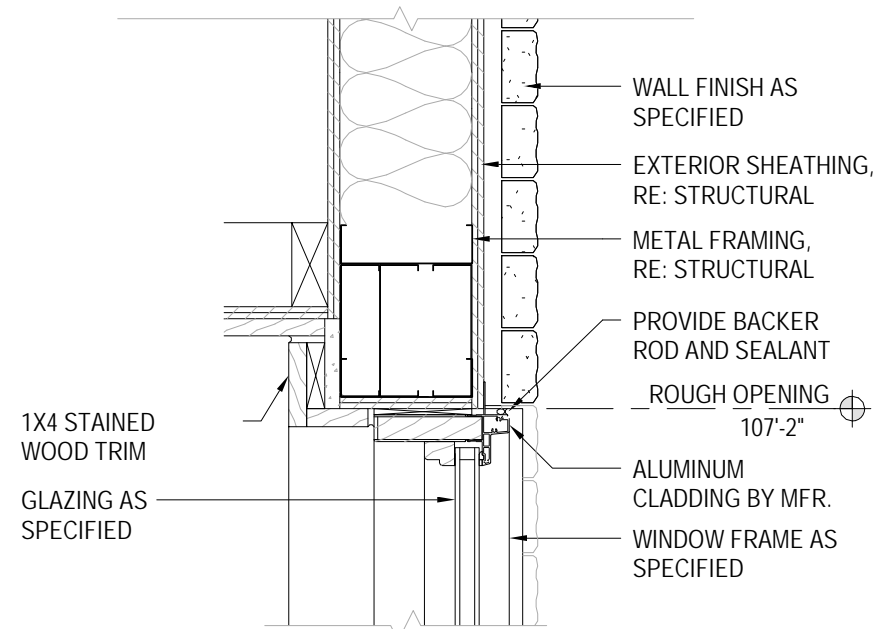
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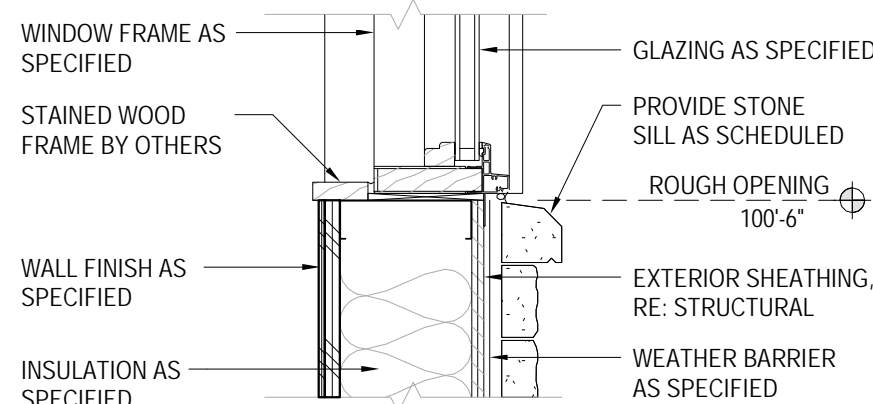
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FRAME DETAILS
1 1/2" = 1'-0"

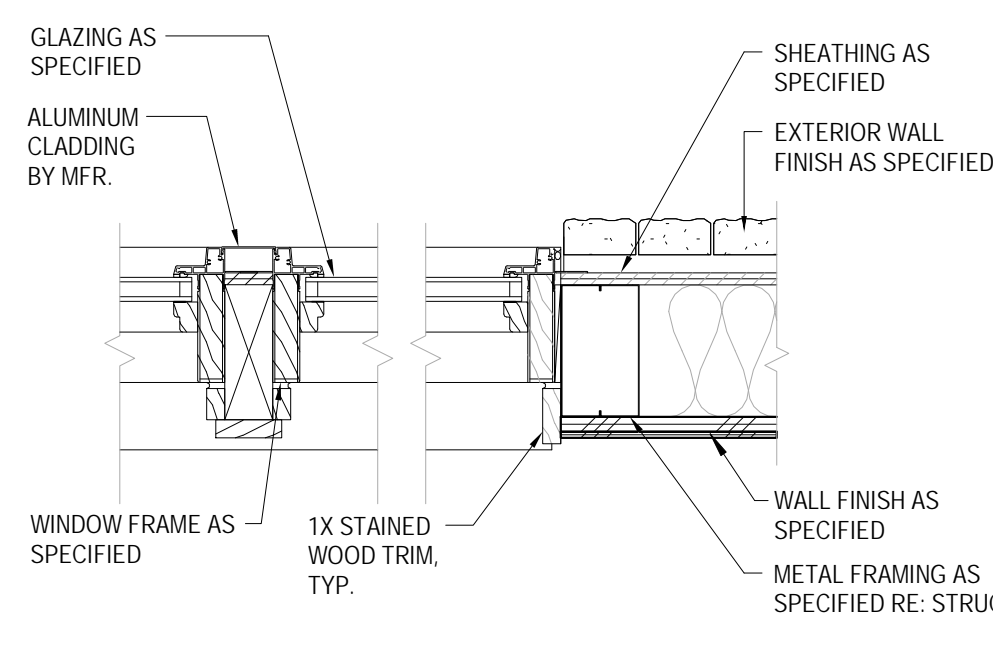
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HEAD



SILL



MULLION

JAMB

FRAME DETAILS
1 1/2" = 1'-0"

4

FRAME DETAILS
1 1/2" = 1'-0"

2

FRAME DETAILS
1 1/2" = 1'-0"

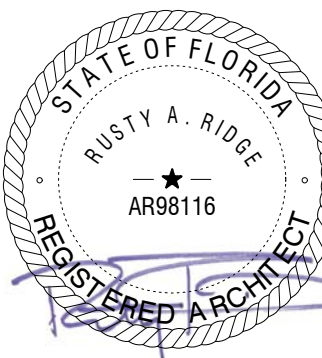
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6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75063
TEL: 972.870.1288
WWW.IDSTUDIO4.COM

PROJECT NUMBER
DCH22007

CLIENT:
DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

Restaurant #: 21K0037

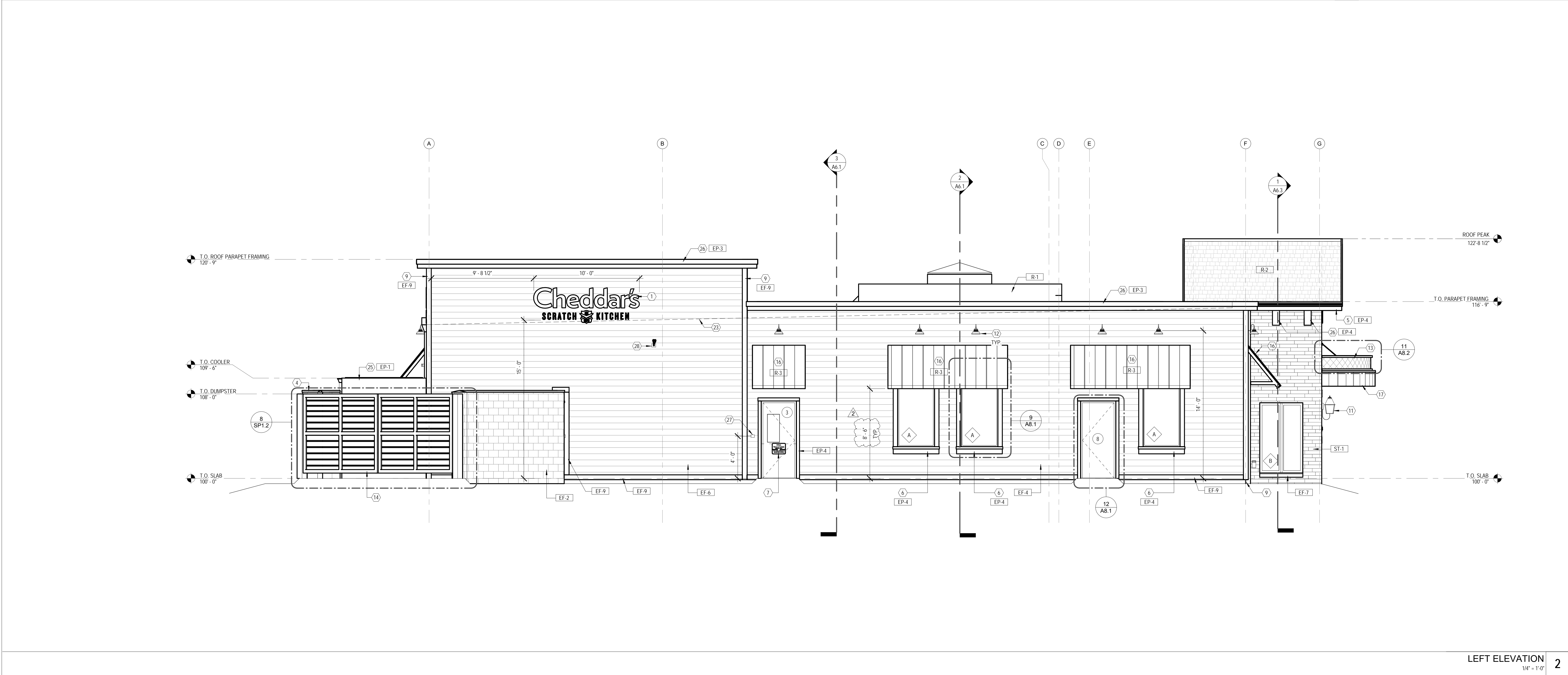
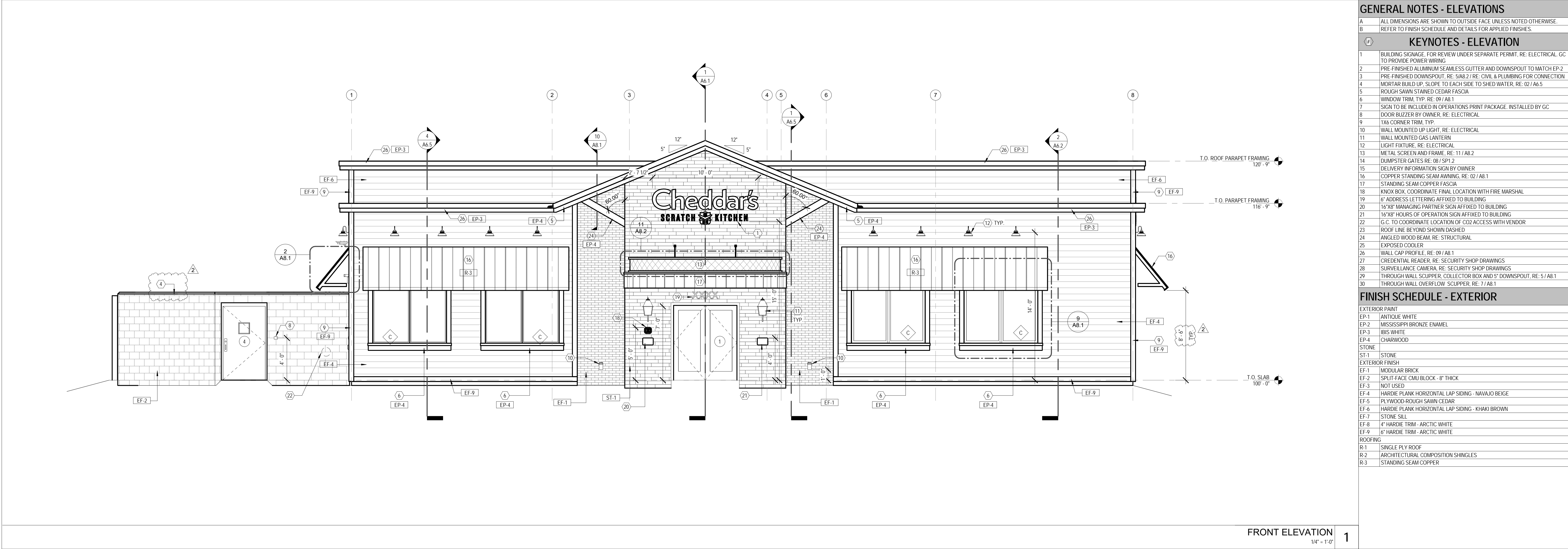
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
DOOR AND
WINDOW DETAILS

A4.5



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6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75014
TEL: 972.870.1288
WWW.IDSTUDIO4.COM

PROJECT NUMBER
DCH22007

CLIENT:
DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

STATE OF FLORIDA
RUSTY A. RIFE
ARCHITECT
REGISTERED ARCHITECT
REV 02: 04.18.2023

Issue Date: 02.15.2023

REVISION INFORMATION
1 04.04.2023
CITY COMMENTS
2 04.05.2023
COORDINATION COMMENTS

Restaurant #: 21K0037

CHEDDAR'S
SCRATCH KITCHEN
PROTO 18
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

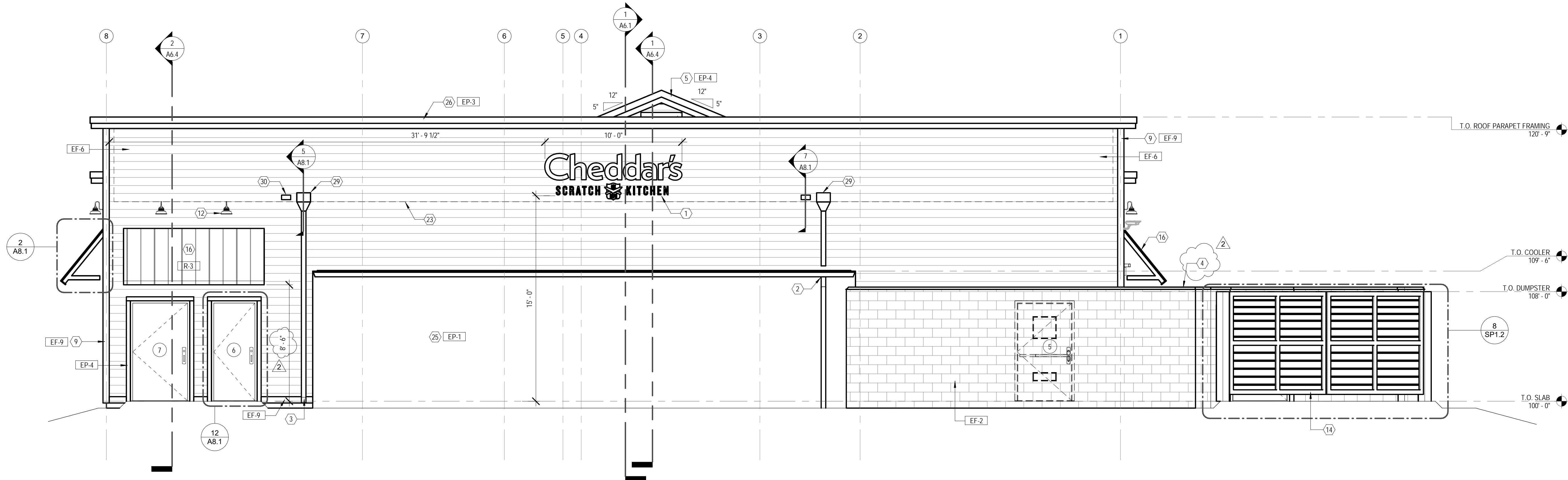
RIVERVIEW, FL

Drawing:
EXTERIOR
ELEVATIONS

A5.1

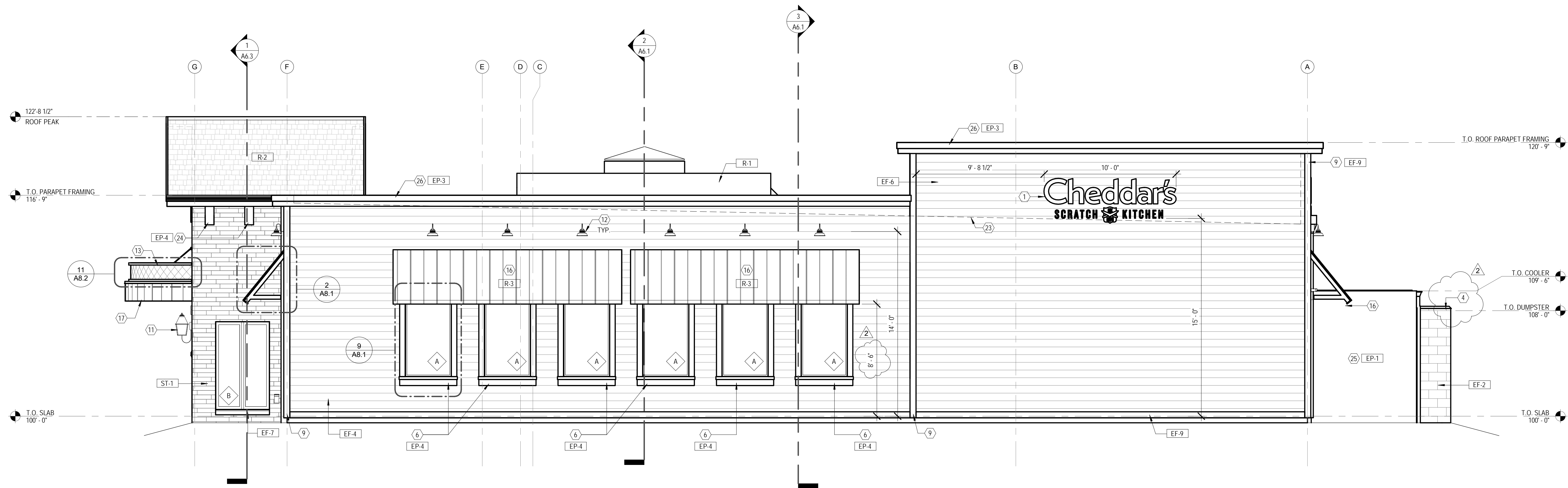
GENERAL NOTES - ELEVATIONS	
A	ALL DIMENSIONS ARE SHOWN TO OUTSIDE FACE UNLESS NOTED OTHERWISE.
B	REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.
KEYNOTES - ELEVATION	
1	BUILDING SIGNAGE FOR REVIEW UNDER SEPARATE PERMIT. RE: ELECTRICAL GC TO PROVIDE POWER WIRING.
2	PRE-FINISHED ALUMINUM SEAMLESS GUTTER AND DOWNSPOUT TO MATCH EP-2.
3	PRE-FINISHED DOWNSPOUT. RE: SIA8.2 / RE: CIVIL & PLUMBING FOR CONNECTION.
4	MORTAR BUILD UP. SLOPE TO EACH SIDE TO SHED WATER. RE: 02 / A6.5.
5	ROUGH SAWN STAINED CEDAR FASCIA.
6	WINDOW TRIM. TYP. RE: 09 / A8.1.
7	SIGN TO BE INCLUDED IN OPERATIONS PRINT PACKAGE. INSTALLED BY GC.
8	DOOR BUZZER BY OWNER. RE: ELECTRICAL.
9	1/4x CORNER TRIM. TYP.
10	WALL MOUNTED UP LIGHT. RE: ELECTRICAL.
11	WALL MOUNTED GAS LANTERN.
12	LIGHT FIXTURE. RE: ELECTRICAL.
13	METAL SCREEN AND FRAME. RE: 11 / A8.2.
14	DUMPSTER GATES. RE: 08 / SPT.2.
15	DELIVERY INFORMATION SIGN BY OWNER.
16	COPPER STANDING SEAM AWNING. RE: 02 / A8.1.
17	STANDING SEAM COPPER FASCIA.
18	KNOX BOX. COORDINATE FINAL LOCATION WITH FIRE MARSHAL.
19	6" ADDRESS LETTERING AFFIXED TO BUILDING.
20	16"x8" MANAGING PARTNER SIGN AFFIXED TO BUILDING.
21	16"x8" HOURS OF OPERATION SIGN AFFIXED TO BUILDING.
22	G.C. TO COORDINATE LOCATION OF CO2 ACCESS WITH VENDOR.
23	ROOF LINE BEYOND SHOWN DASHED.
24	ANGLED WOOD BEAM. RE: STRUCTURAL.
25	EXPOSED COOLER.
26	WALL CAP PROFILE. RE: 09 / A8.1.
27	CREDENTIAL READER. RE: SECURITY SHOP DRAWINGS.
28	SURVEILLANCE CAMERA. RE: SECURITY SHOP DRAWINGS.
29	THROUGH WALL SCUPPER. COLLECTOR BOX AND 5" DOWNSPOUT. RE: 5 / A8.1.
30	THROUGH WALL OVERFLOW SCUPPER. RE: 7 / A8.1.

FINISH SCHEDULE - EXTERIOR	
EXTERIOR PAINT	
EP-1	ANTIQUE WHITE
EP-2	MISSISSIPPI BROAZE ENAMEL
EP-3	IBIS WHITE
EP-4	CHARWOOD
STONE	
ST-1	STONE
EXTERIOR FINISH	
EF-1	MODULAR BRICK
EF-2	SPLIT-FACE CMU BLOCK - 8" THICK
EF-3	NOT USED
EF-4	HARDIE PLANK HORIZONTAL LAP SIDING - NAVAJO BEIGE
EF-5	PLYWOOD/ROUGH SAWN CEDAR
EF-6	HARDIE PLANK HORIZONTAL LAP SIDING - KHAKI BROWN
EF-7	STONE SILL
EF-8	4" HARDIE TRIM - ARCTIC WHITE
EF-9	6" HARDIE TRIM - ARCTIC WHITE
ROOFING	
R-1	SINGLE PLY ROOF
R-2	ARCHITECTURAL COMPOSITION SHINGLES
R-3	STANDING SEAM COPPER



REAR ELEVATION
1/4" = 1'-0"

1



RIGHT ELEVATION
1/4" = 1'-0"

2

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6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75014

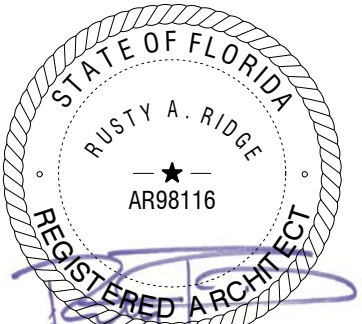
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PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.

1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



REV 02: 04.18.2023

Cheddar's
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1 04.04.2023

CITY COMMENTS

2 04.05.2023

COORDINATION COMMENTS

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

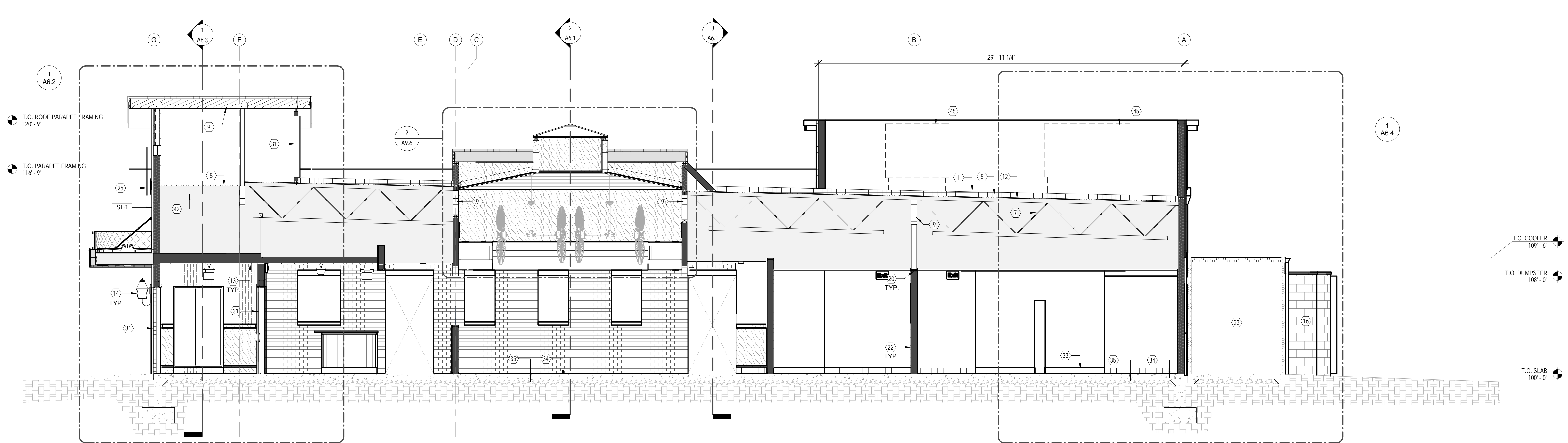
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

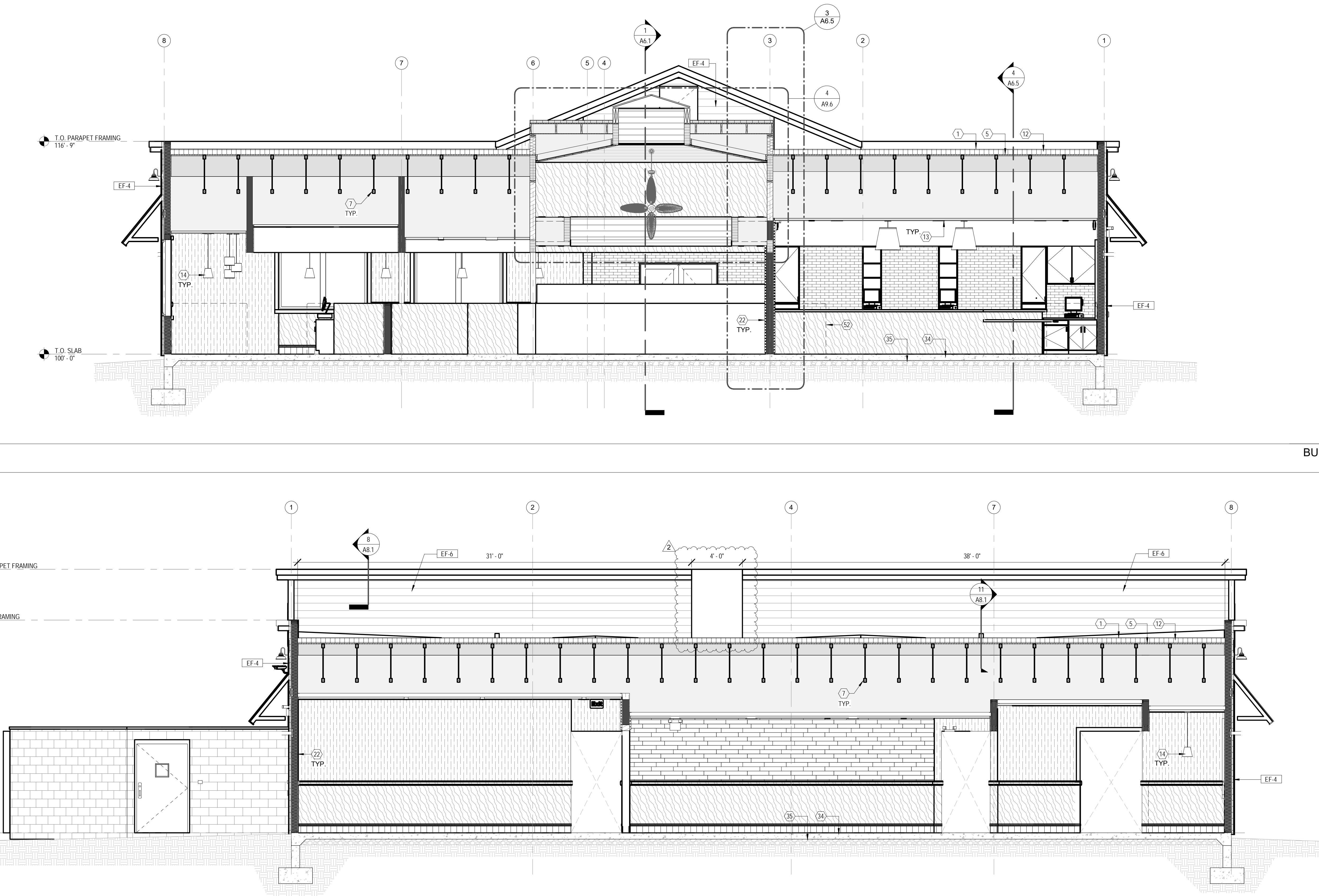
Drawing:

EXTERIOR
ELEVATIONS

A5.2



BUILDING SECTION 1
1/4" = 1'-0"



BUILDING SECTION 2
1/4" = 1'-0"

GENERAL NOTES - BUILDING SECTION

- A ALL DIMENSIONS ARE SHOWN TO FACE OF STUD WALL UNLESS NOTED OTHERWISE
B REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES
C WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS
D ALIGN ALL STRUCTURAL MEMBERS TO COORDINATE WITH STRUCTURAL DRAWINGS

KEYNOTES - BUILDING SECTIONS

- 1 ROOFING AS SCHEDULED
2 ROOF DRAIN, RE: PLUMBING
3 ICE AND WATER SHIELD AS SPECIFIED
4 ROOF FELT AS SPECIFIED, OVERLAP ICE AND WATER SHIELD WHERE SHOWN
5 PLYWOOD DECKING, RE: STRUCTURAL
6 WOOD KICKER, RE: STRUCTURAL
7 ROOF TRUSSES, RE: STRUCTURAL
8 STEEL BEAM, RE: STRUCTURAL
9 WOOD BEAM, RE: STRUCTURAL
10 OWNER PROVIDED METAL FRAME AND WIRE MESH
11 TAPERED INSULATION AS SPECIFIED
12 RIGID ROOF INSULATION AS SPECIFIED
13 CEILING AS SCHEDULED
14 LIGHT FIXTURE, RE: ELECTRICAL AND REFLECTED CEILING PLAN
15 MASONRY TIES AT 16" O.C. W. AS SPECIFIED
16 CMU DUMPSTER SCREEN WALL, RE: STRUCTURAL
17 WEATHER BARRIER AS SCHEDULED
18 EXTERIOR SHEATHING, RE: STRUCTURAL
19 WALL FRAMING, RE: STRUCTURAL
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21 THRU-WALL METAL FLASHING WITH WEEP HOLES AT 32" O.C.
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24 PREFINISHED ALUMINUM SEAMLESS GUTTER AND STEEL DOWNSPOUT, RE: 5 AND 6/8 2
25 BUILDING SIGNAGE UNDER SEPARATE PERMIT, RE: MEP FOR POWER
26 R-21 BATT INSULATION
27 R-38 BATT INSULATION
28 STEEL LADDER
29 CONTINUOUS METAL FLASHING
30 SOUND BATT INSULATION AS SPECIFIED
31 DOOR AS SPECIFIED
32 PROVIDE COLLAR JOINT WITH HIGH SLUMP GROUT
33 BASE AS SCHEDULED
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35 BELOW SLAB VAPOR BARRIER AS SPECIFIED
36 METAL HEADER, RE: STRUCTURAL
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44 1/2" PLYWOOD, PAINT
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55 ROOF DRAIN CONNECT DRAIN PIPE TO STORM SEWER SHOWN DASHED, RE: CIVIL AND PLUMBING
56 WOOD BRACING, RE: STRUCTURAL
57 PROVIDE KICK BRACE AS REQUIRED
58 EXTEND ROOFING MEMBRANE UP PARAPET AND OVER TOP OF WALL TO SNAP CAP FLASHING
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EP-1 ANTIQUE WHITE
EP-2 MISSISSIPPI BRONZE ENAMEL
EP-3 IBIS WHITE
EP-4 CHARWOOD
STONE
ST-1 STONE
EXTERIOR FINISH
EF-1 MODULAR BRICK
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R-3 STANDING SEAM COPPER

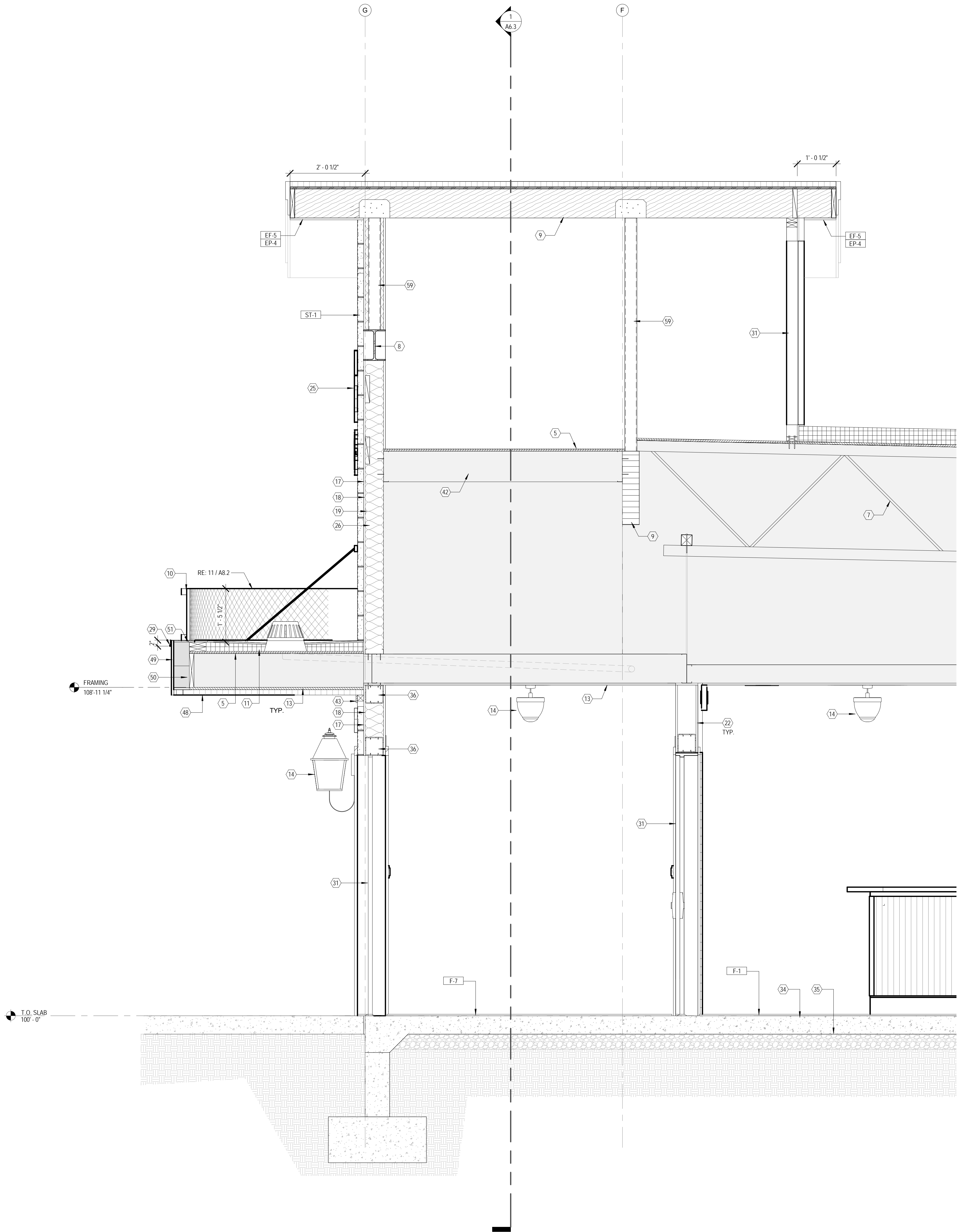
FINISH SCHEDULE - INTERIOR

- INTERIOR PAINT
P-1 TAVERN TAUPE
P-2 IBIS WHITE
P-3 BLACK OF NIGHT
P-4 HALF CAFF

- STAIN
S-1 EBONY
S-2 CLEAR SEALER
S-3 FLAGSTONE
S-4 BRICK SEALER

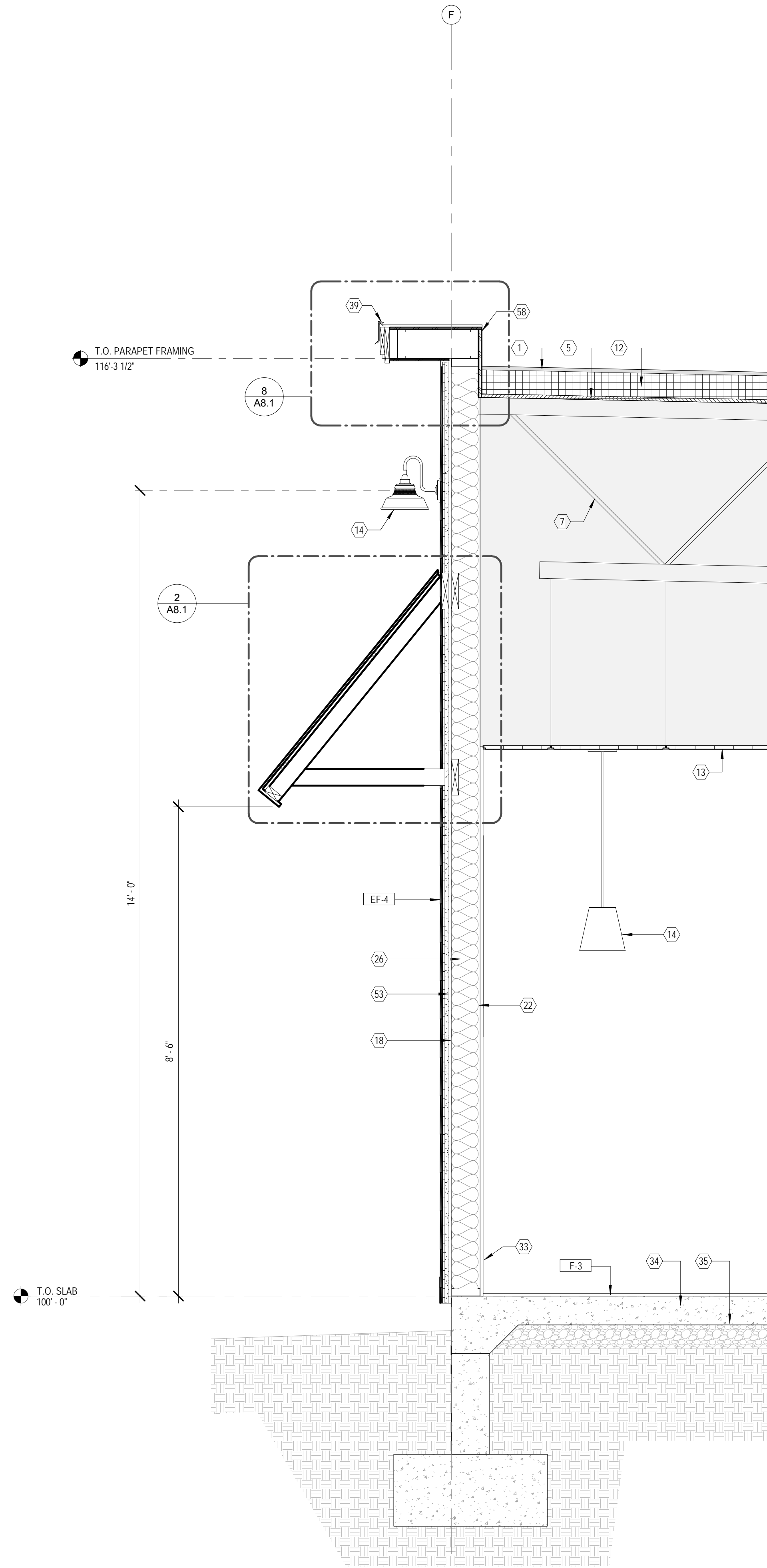
- WALL COVERING
WC-1 VINYL FABRIC
WC-2 FRP-WHITE
WC-3 FRP-BLACK
WC-4 WOOD LAMINATE
WC-5 PLASTIC LAMINATE-WHITE
WC-6 PLASTIC LAMINATE-BLACK
WC-7 STONE
WC-8 PORCELAIN TILE-CREME
WC-9 PORCELAIN TILE-TORTORA
WC-10 PORCELAIN TILE-TIGERS EYE
WC-11 QUARRY TILE
WC-12 WOOD PLANKS
WC-13 STAINLESS STEEL PANEL
WC-14 THIN BRICK
WC-15 WOOD PANEL

- GRANITE
G-1 GRANITE-JUPARANA ST. CECILIA
G-2 GRANITE-BLACK
G-3 CORIAN-SAHARA
BASE
B-1 PORCELAIN TILE-MINERAL CHROME
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B-3 PORCELAIN TILE-RESIDE
CEILING
C-1 ACOUSTICAL CEILING-BLACK
C-2 ACOUSTICAL CEILING-WHITE
C-3 NOT USED
C-4 V-GROOVE PLANK



WALL SECTION
3/4" = 1'-0"

1



WALL SECTION
3/4" = 1'-0"

2

GENERAL NOTES - BUILDING SECTION

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C-3 NOT USED
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6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75063

TEL: 972.870.1288
WWW.IDSTUDIO4.COM

PROJECT NUMBER
DCH22007

CLIENT:

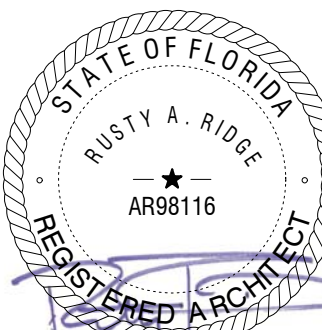
DARDEN RESTAURANTS, INC.

1000 DARDEN CENTER DR.

ORLANDO, FL 32837

PHONE: 407.245.4000

www.darden.com



REV 02: 04.18.2023

Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1 04.04.2023

CITY COMMENTS

2 04.05.2023

COORDINATION COMMENTS

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

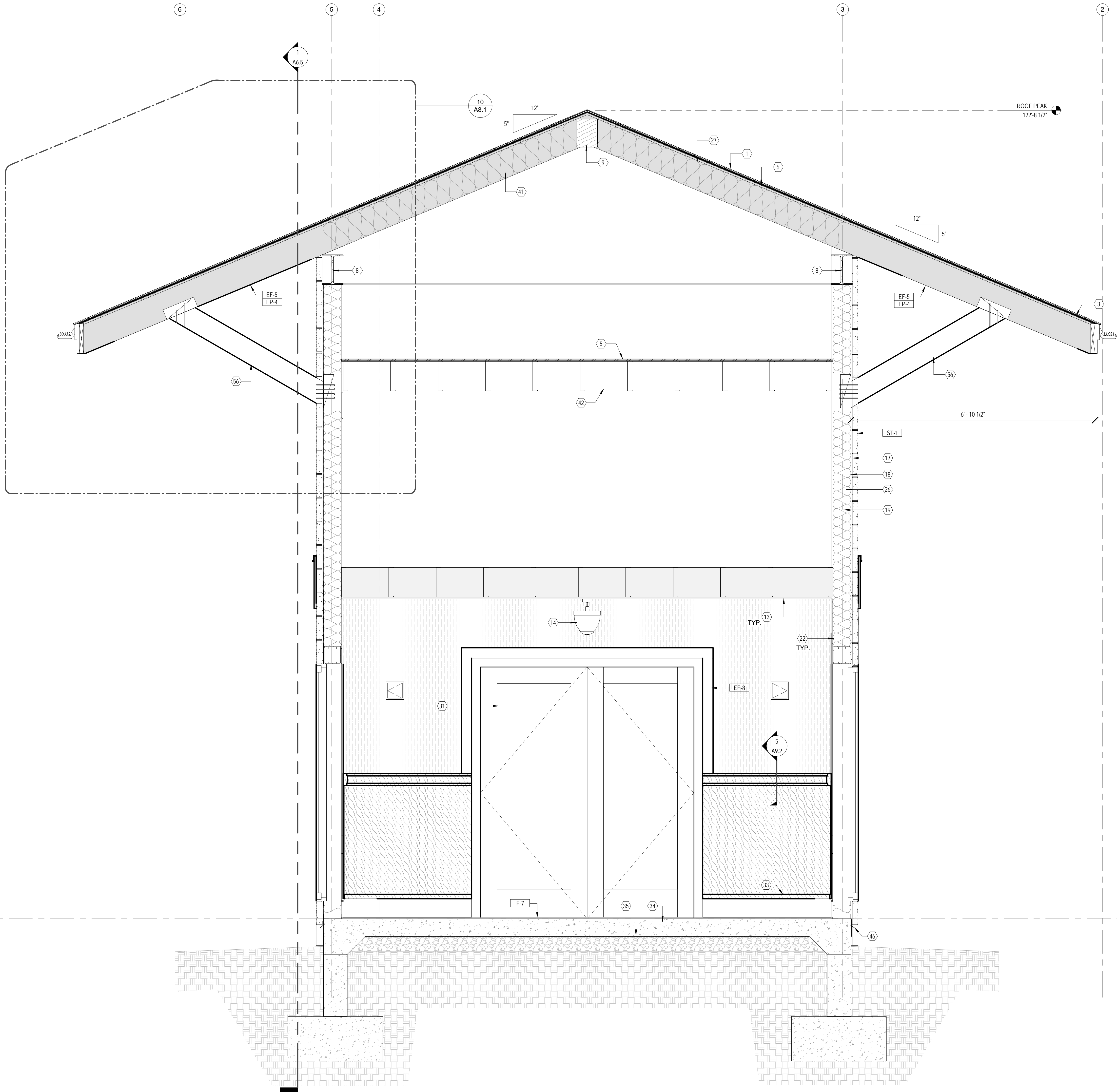
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:

WALL SECTIONS

A6.2



GENERAL NOTES - BUILDING SECTION

A	ALL DIMENSIONS ARE SHOWN TO FACE OF STUD WALL UNLESS NOTED OTHERWISE.
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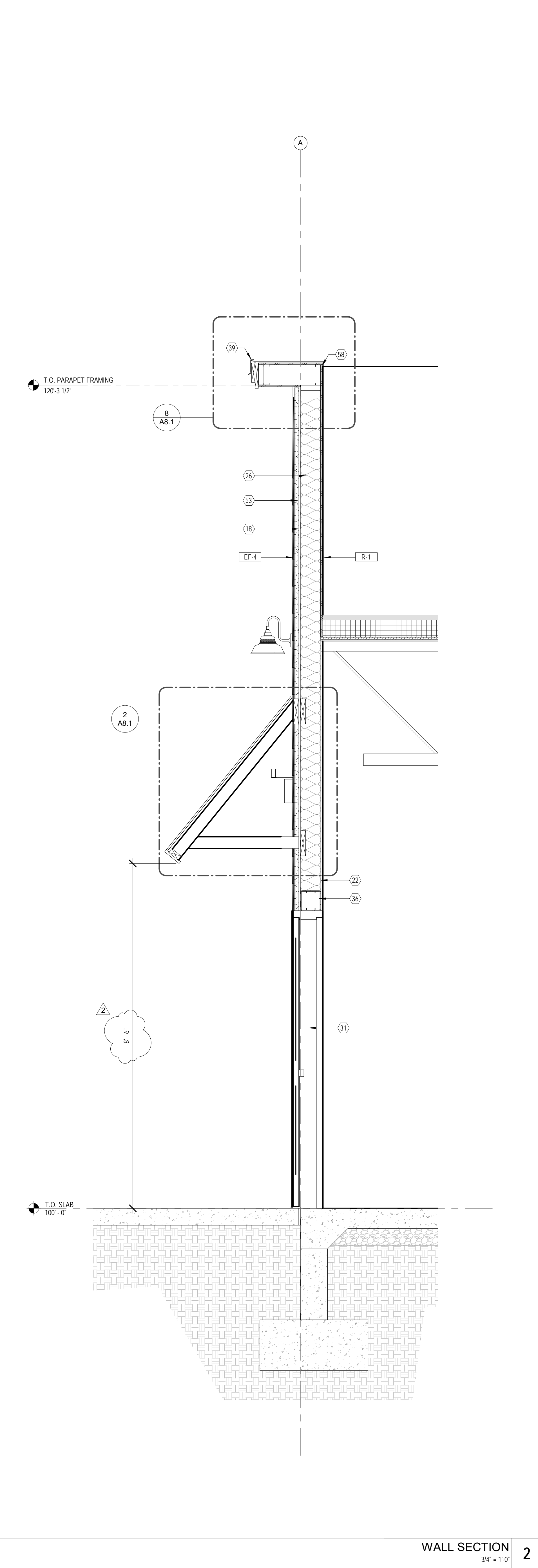
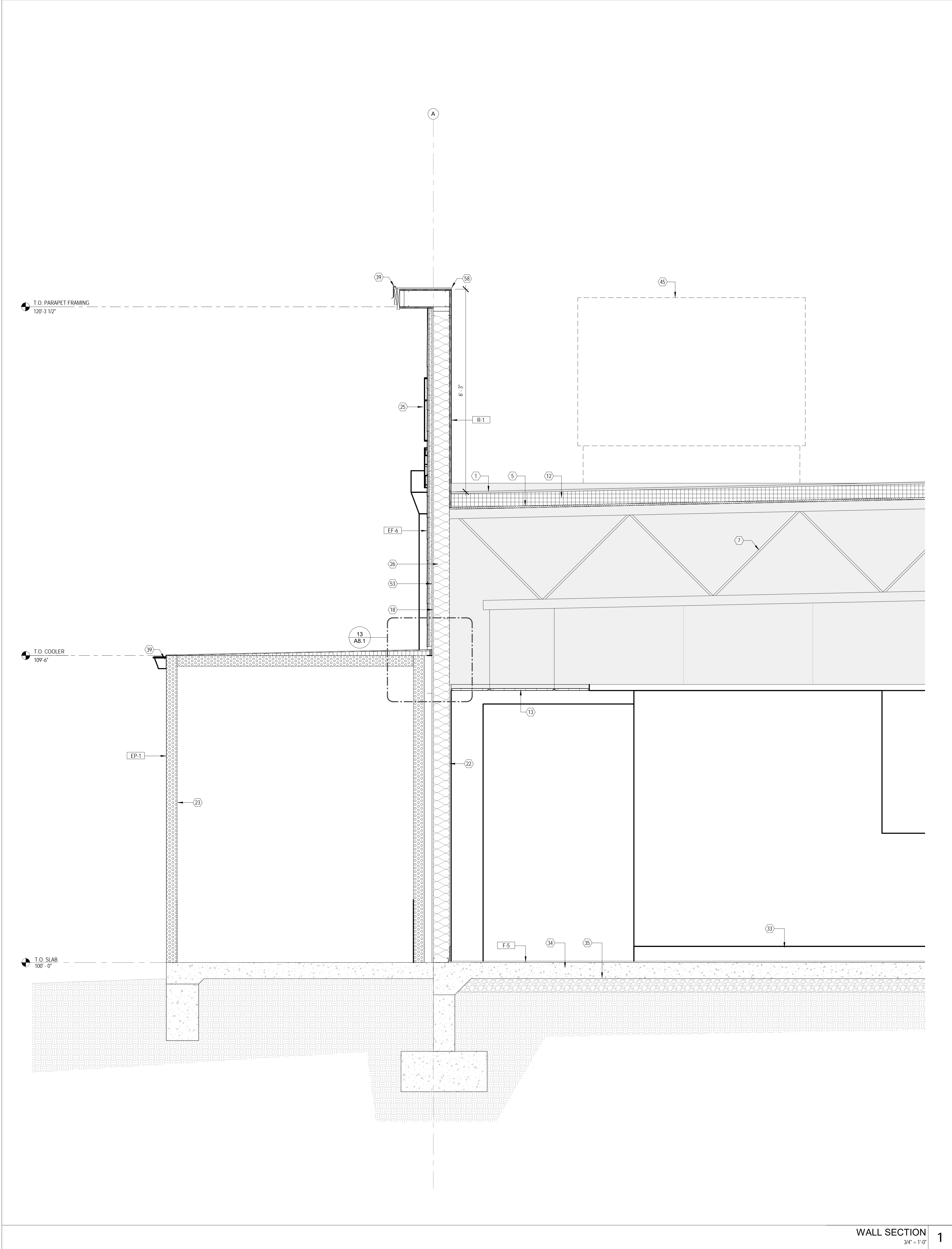
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33	BASE AS SCHEDULED
34	FOUNDATION, RE: STRUCTURAL
35	BELOW SLAB VAPOR BARRIER AS SPECIFIED
36	METAL HEADER, RE: STRUCTURAL
37	FLOOR DRAIN, RE: PLUMBING
38	OVERFLOW DOWNSPOUT NOZZLE, RE: PLUMBING
39	PRE-FINISHED METAL SNAP CAP FLASHING AS SPECIFIED
40	2X4 WOOD FRAMING
41	WOOD JOISTS, RE: STRUCTURAL
42	WOOD METAL FRAMING, RE: STRUCTURAL
43	STAINED WOOD TRIM
44	1/2" PLYWOOD, PAINT
45	MECHANICAL DUCTWORK, DIFFUSERS AND EQUIPMENT, RE: MECHANICAL
46	CONTINUOUS FOUNDATION WEEP SCREED
47	ROOF HATCH AS SPECIFIED
48	PROVIDE CONTINUOUS REVEAL TRIM
49	STANDING SEAM COPPER FASCIA RETURN BACK TO PLYWOOD SOFFIT
50	2 LAYERS 1/4" EXTERIOR PLYWOOD AT RADIUS
51	TREATED 2X6 AT RADIUS CUT FROM 2X10 FOR 4'-0" LONG PIECE
52	BOOTH DIVIDERS, RE: ELEVATIONS
53	1" CONTINUOUS XPS FOAM INSULATION
54	ROOF OVERFLOW DRAIN, RE: PLUMBING
55	ROOF DRAIN CONNECT DRAIN PIPE TO STORM SEWER SHOWN DASHED, RE: CIVIL AND PLUMBING
56	WOOD BRACING, RE: STRUCTURAL
57	PROVIDE KICK BRACE AS REQUIRED
58	EXTEND ROOFING MEMBRANE UP PARAPET AND OVER TOP OF WALL TO SNAP CAP FLASHING
59	COLUMN, RE: STRUCTURAL
FINISH SCHEDULE - EXTERIOR	
EXTERIOR PAINT	
EP-1	ANTIQUE WHITE
EP-2	MISSISSIPPI BRONZE ENAMEL
EP-3	IBIS WHITE
EP-4	CHARWOOD
STONE	
ST-1	STONE
EXTERIOR FINISH	
EF-1	MODULAR BRICK
EF-2	SPLIT-FACE CMU BLOCK - 8" THICK
EF-3	NOT USED
EF-4	HARDIE PLANK HORIZONTAL LAP SIDING - NAVAJO BEIGE
EF-5	PLYWOOD ROUGH SAWN CEDAR
EF-6	HARDIE PLANK HORIZONTAL LAP SIDING - KHAKI BROWN
EF-7	STONE SILL
EF-8	4" HARDIE TRIM - ARCTIC WHITE
EF-9	6" HARDIE TRIM - ARCTIC WHITE
ROOFING	
R-1	SINGLE PLY ROOF
R-2	ARCHITECTURAL COMPOSITION SHINGLES
R-3	STANDING SEAM COPPER
FINISH SCHEDULE - INTERIOR	
INTERIOR PAINT	
P-1	TAVERN TAUPE
P-2	IBIS WHITE
P-3	BLACK OF NIGHT
P-4	HALF CAFF
STAIN	
S-1	EBONY
S-2	CLEAR SEALER
S-3	FLAGSTONE
S-4	BRICK SEALER
WALL COVERING	
WC-1	VINYL FABRIC
WC-2	FRP-WHITE
WC-3	FRP-BLACK
WC-4	WOOD LAMINATE
WC-5	PLASTIC LAMINATE-WHITE
WC-6	PLASTIC LAMINATE-BLACK
WC-7	STONE
WC-8	PORCELAIN TILE-CREME
WC-9	PORCELAIN TILE-TORTORA
WC-10	PORCELAIN TILE-TIGERS EYE
WC-11	QUARRY TILE
WC-12	WOOD PLANKS
WC-13	STAINLESS STEEL PANEL
WC-14	THIN BRICK
WC-15	WOOD PANEL
GRANITE	
G-1	GRANITE-JUPARANA ST. CECILIA
G-2	GRANITE-BLACK
G-3	CORIAN-SAHARA
BASE	
B-1	PORCELAIN TILE-MINERAL CHROME
B-2	QUARRY TILE
B-3	PORCELAIN TILE-RESIDE
CEILING	
C-1	ACOUSTICAL CEILING-BLACK
C-2	ACOUSTICAL CEILING-WHITE
C-3	NOT USED
C-4	V-GROOVE PLANK

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PROJECT NUMBER
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PHONE: 407.245.4000
www.darden.com

STATE OF FLORIDA
RUSTY A. RIFE
ARCHITECT
REGISTERED ARCHITECT
REV 02: 04.18.2023

Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1 04.04.2023

CITY COMMENTS

2 04.05.2023

COORDINATION COMMENTS

Restaurant #: 21K0037

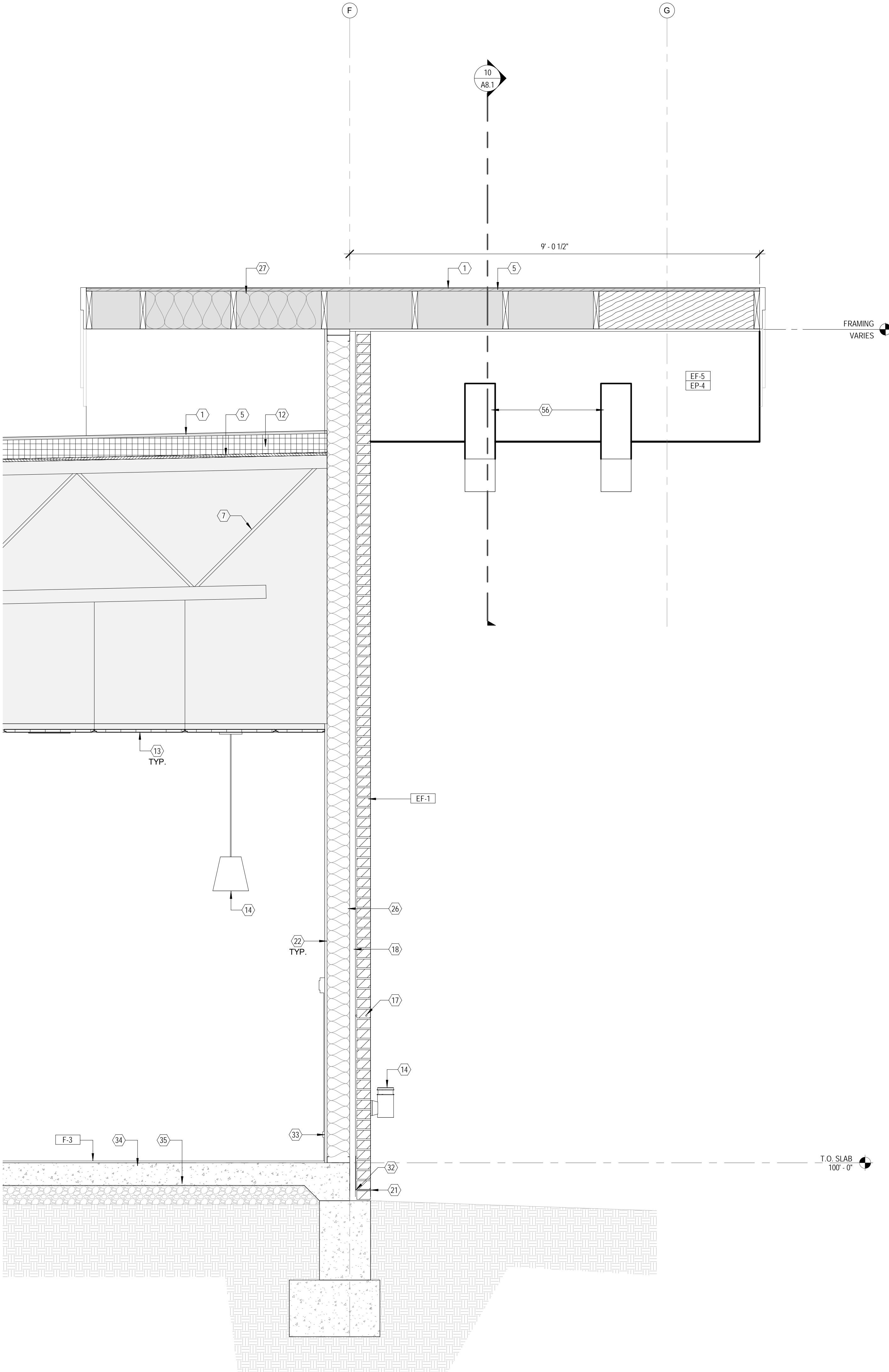
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

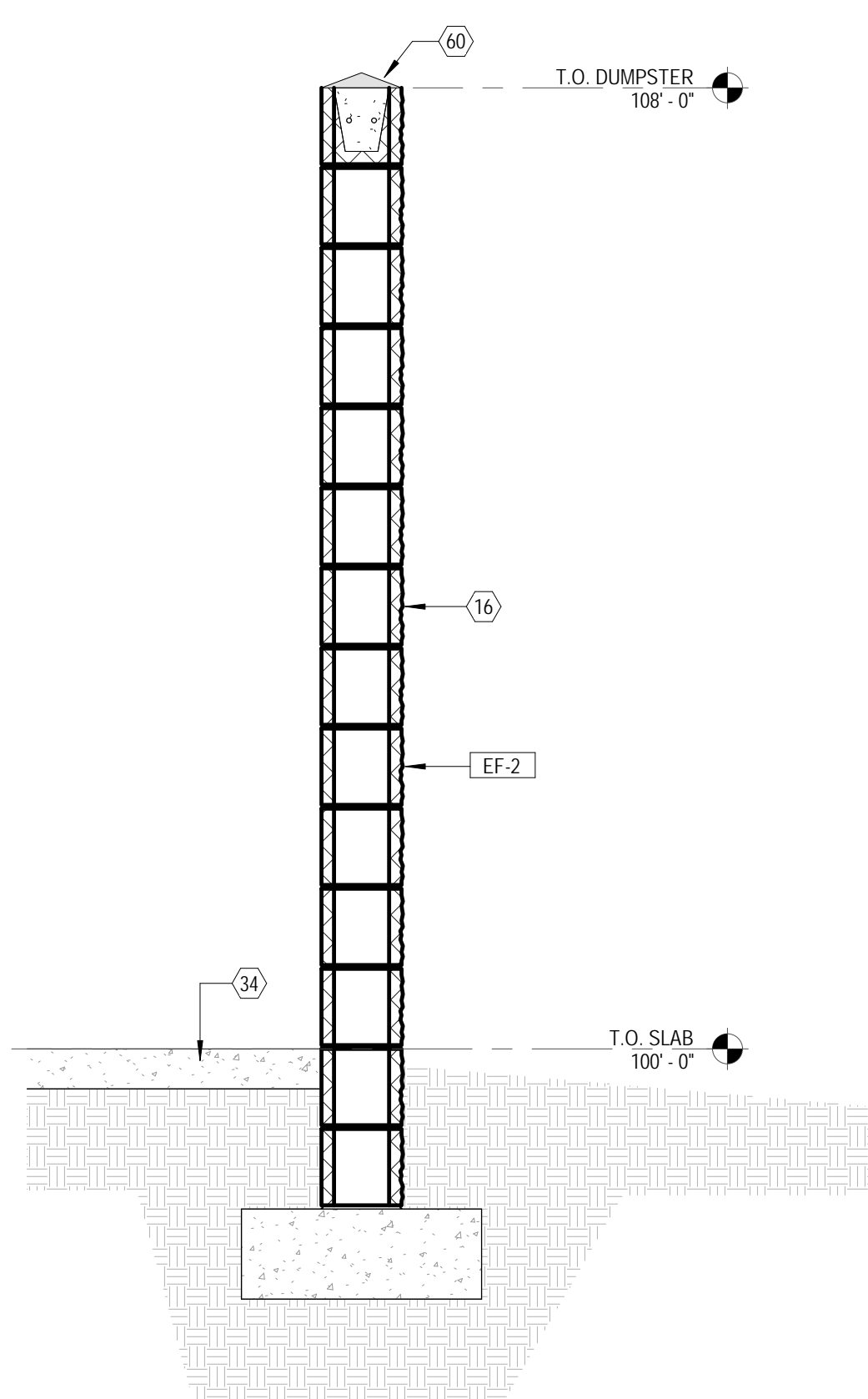
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WALL SECTIONS

A6.4



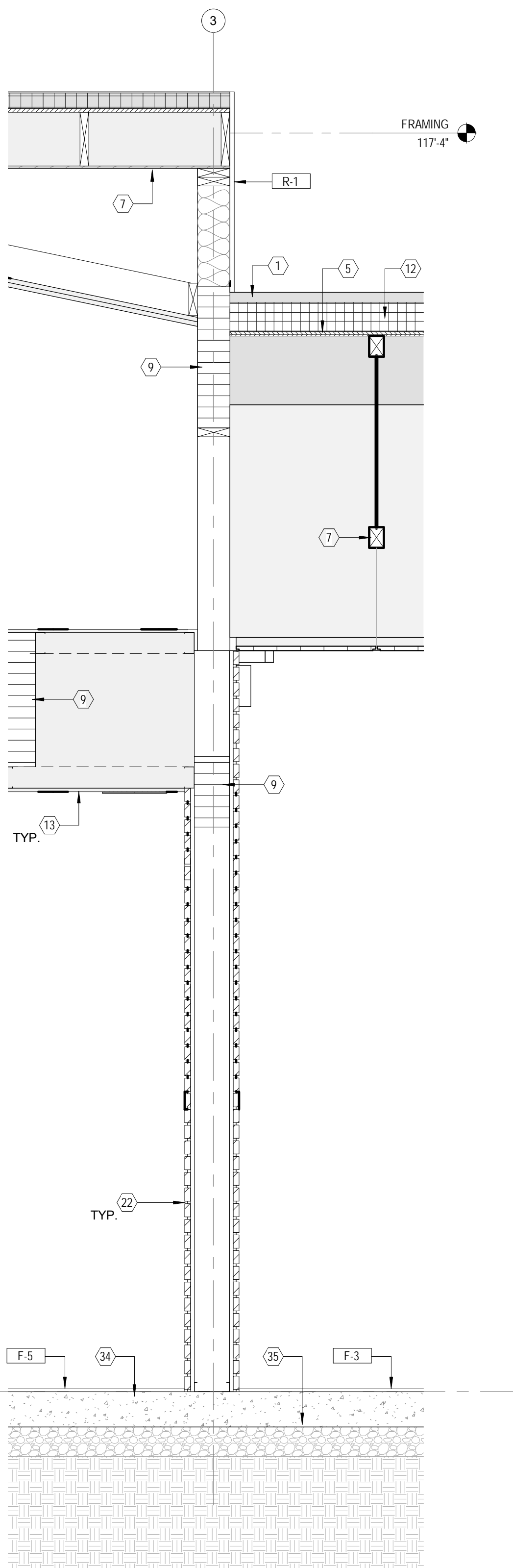
WALL SECTION
3/4" = 1'-0"

1



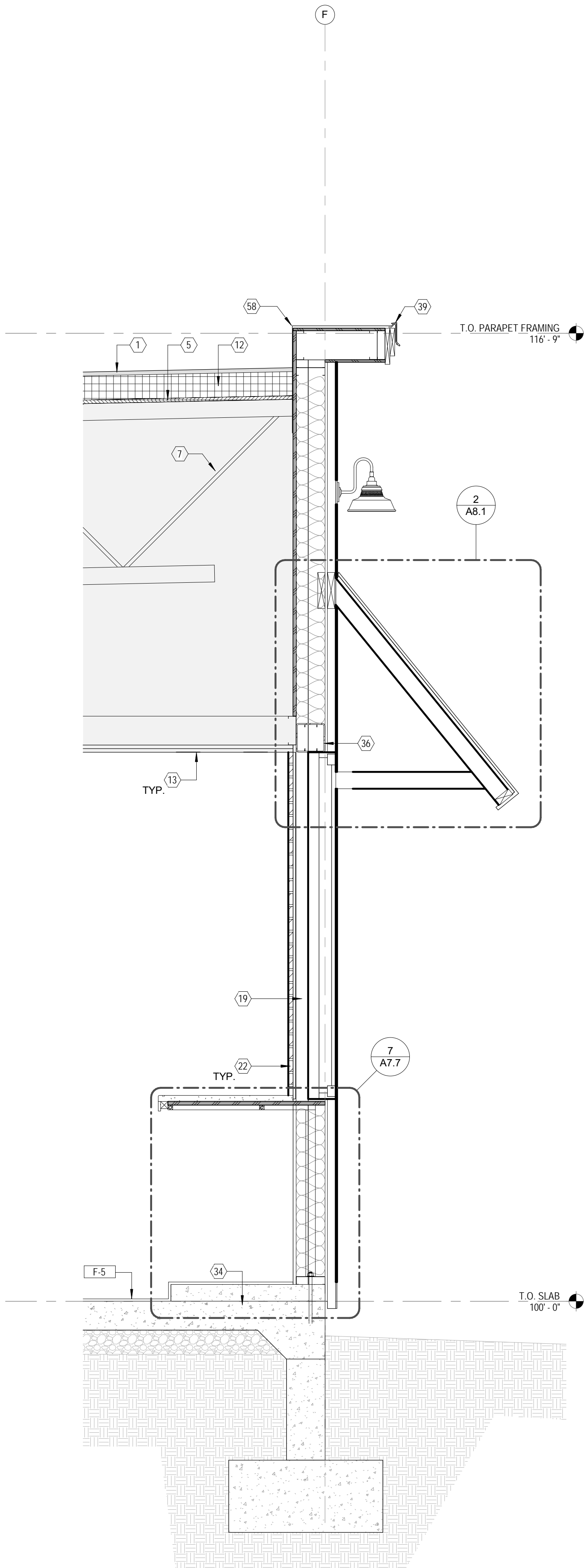
WALL SECTION
3/4" = 1'-0"

2



WALL SECTION
3/4" = 1'-0"

3



WALL SECTION
3/4" = 1'-0"

4

GENERAL NOTES - BUILDING SECTION

- A ALL DIMENSIONS ARE SHOWN TO FACE OF STUD WALL UNLESS NOTED OTHERWISE
B REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES
C WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS
D ALIGN ALL STRUCTURAL MEMBERS TO COORDINATE WITH STRUCTURAL DRAWINGS

KEYNOTES - WALL SECTIONS

- 1 ROOFING AS SCHEDULED
2 ROOF DRAIN, RE: PLUMBING
3 ICE AND WATER SHIELD AS SPECIFIED
4 ROOF FELT AS SPECIFIED, OVERLAP ICE AND WATER SHIELD WHERE SHOWN
5 PLYWOOD DECKING, RE: STRUCTURAL
6 WOOD KICKER, RE: STRUCTURAL
7 ROOF TRUSSES, RE: STRUCTURAL
8 STEEL BEAM, RE: STRUCTURAL
9 WOOD BEAM, RE: STRUCTURAL
10 OWNER PROVIDED METAL FRAME AND WIRE MESH
11 TAPERED INSULATION AS SPECIFIED
12 RIGID ROOF INSULATION AS SPECIFIED
13 CEILING AS SCHEDULED
14 LIGHT FIXTURE, RE: ELECTRICAL AND REFLECTED CEILING PLAN
15 MASONRY TIES AT 16" O.C. W. AS SPECIFIED
16 CMU DUMPSTER SCREEN WALL, RE: STRUCTURAL
17 WEATHER BARRIER AS SCHEDULED
18 EXTERIOR SHEATHING, RE: STRUCTURAL
19 WALL FRAMING, RE: STRUCTURAL
20 FIRE BLOCKING
21 THRU-WALL METAL FLASHING WITH WEEP HOLES AT 32" O.C.
22 WALL FINISH AS SCHEDULED
23 COOLER AND FREEZER EQUIPMENT BY KITCHEN EQUIPMENT SUPPLIER
24 PREFINISHED ALUMINUM SEAMLESS GUTTER AND STEEL DOWNSPOUT, RE: 5 AND 6/AB.2
25 BUILDING SIGNAGE UNDER SEPARATE PERMIT, RE: MEP FOR POWER
26 R-21 BATT INSULATION
27 R-38 BATT INSULATION
28 STEEL LADDER
29 CONTINUOUS METAL FLASHING
30 SOUND BATT INSULATION AS SPECIFIED
31 DOOR AS SPECIFIED
32 PROVIDE COLLAR JOINT WITH HIGH SLUMP GROUT
33 BASE AS SCHEDULED
34 FOUNDATION, RE: STRUCTURAL
35 BELOW SLAB VAPOR BARRIER AS SPECIFIED
36 METAL HEADER, RE: STRUCTURAL
37 FLOOR DRAIN, RE: PLUMBING
38 OVERFLOW DOWNSPOUT NOZZLE, RE: PLUMBING
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57 PROVIDE KICK BRACE AS REQUIRED
58 EXTEND ROOFING MEMBRANE UP PARAPET AND OVER TOP OF WALL TO SNAP CAP FLASHING
59 COLUMN, RE: STRUCTURAL
60 MORTAR BUILD UP, SLOPE TO EACH SIDE TO SHED WATER

FINISH SCHEDULE - EXTERIOR

- EXTERIOR PAINT
EP-1 ANTIQUE WHITE
EP-2 MISSISSIPPI BRONZE ENAMEL
EP-3 IBIS WHITE
EP-4 CHARWOOD
STONE
ST-1 STONE
EXTERIOR FINISH
EF-1 MODULAR BRICK
EF-2 SPLIT-FACE CMU BLOCK - 8" THICK
EF-3 NOT USED
EF-4 HARDIE PLANK HORIZONTAL LAP SIDING - NAVAJO BEIGE
EF-5 PLYWOOD ROUGH SAUNN CEDAR
EF-6 HARDIE PLANK HORIZONTAL LAP SIDING - KHAKI BROWN
EF-7 STONE SILL
EF-8 4" HARDIE TRIM - ARCTIC WHITE
EF-9 6" HARDIE TRIM - ARCTIC WHITE
ROOFING
R-1 SINGLE PLY ROOF
R-2 ARCHITECTURAL COMPOSITION SHINGLES
R-3 STANDING SEAM COPPER

FINISH SCHEDULE - INTERIOR

- INTERIOR PAINT
P-1 TAVERN TAUPE
P-2 IBIS WHITE
P-3 BLACK OF NIGHT
P-4 HALF CAFF
STAIN
S-1 EBONY
S-2 CLEAR SEALER
S-3 FLAGSTONE
S-4 BRICK SEALER
WALL COVERING
WC-1 VINYL FABRIC
WC-2 FRP-WHITE
WC-3 FRP-BLACK
WC-4 WOOD LAMINATE
WC-5 PLASTIC LAMINATE WHITE
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B-2 QUARRY TILE
B-3 PORCELAIN TILE-RESIDE
CEILING
C-1 ACOUSTICAL CEILING-BLACK
C-2 ACOUSTICAL CEILING-WHITE
C-3 NOT USED
C-4 V-GROOVE PLANK

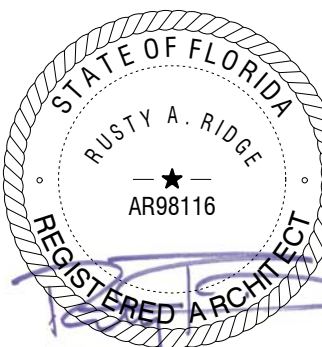
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1000 DARDEN CENTER DR.
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PHONE: 407.245.4000
www.darden.com



Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

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CHEDDARS
SCRATCH KITCHEN
PROTO 18

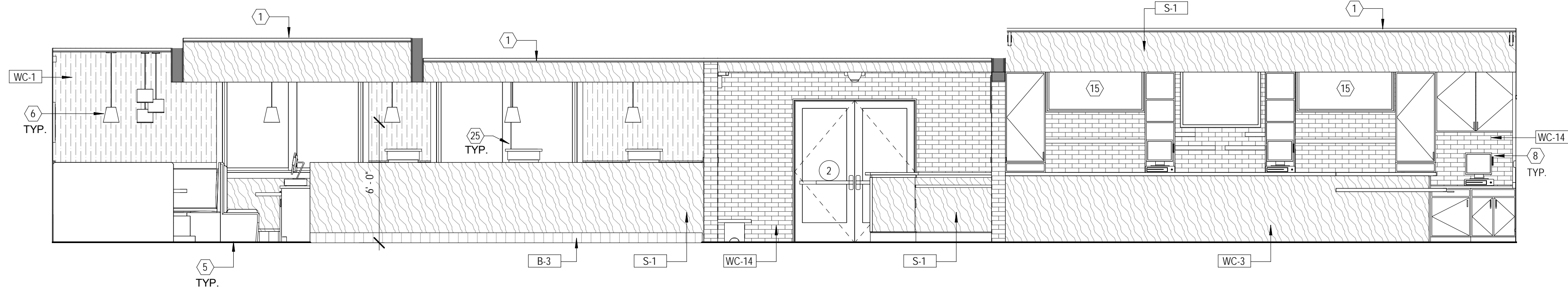
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

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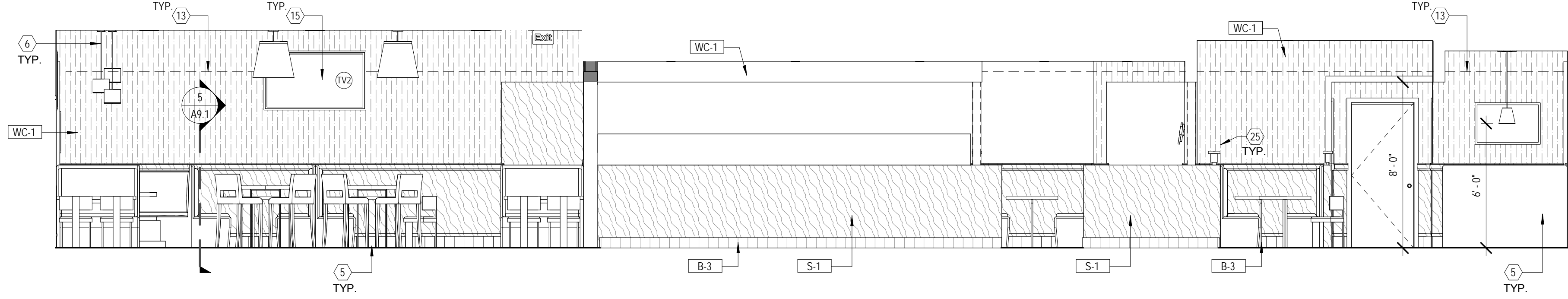
WALL SECTIONS

A6.5



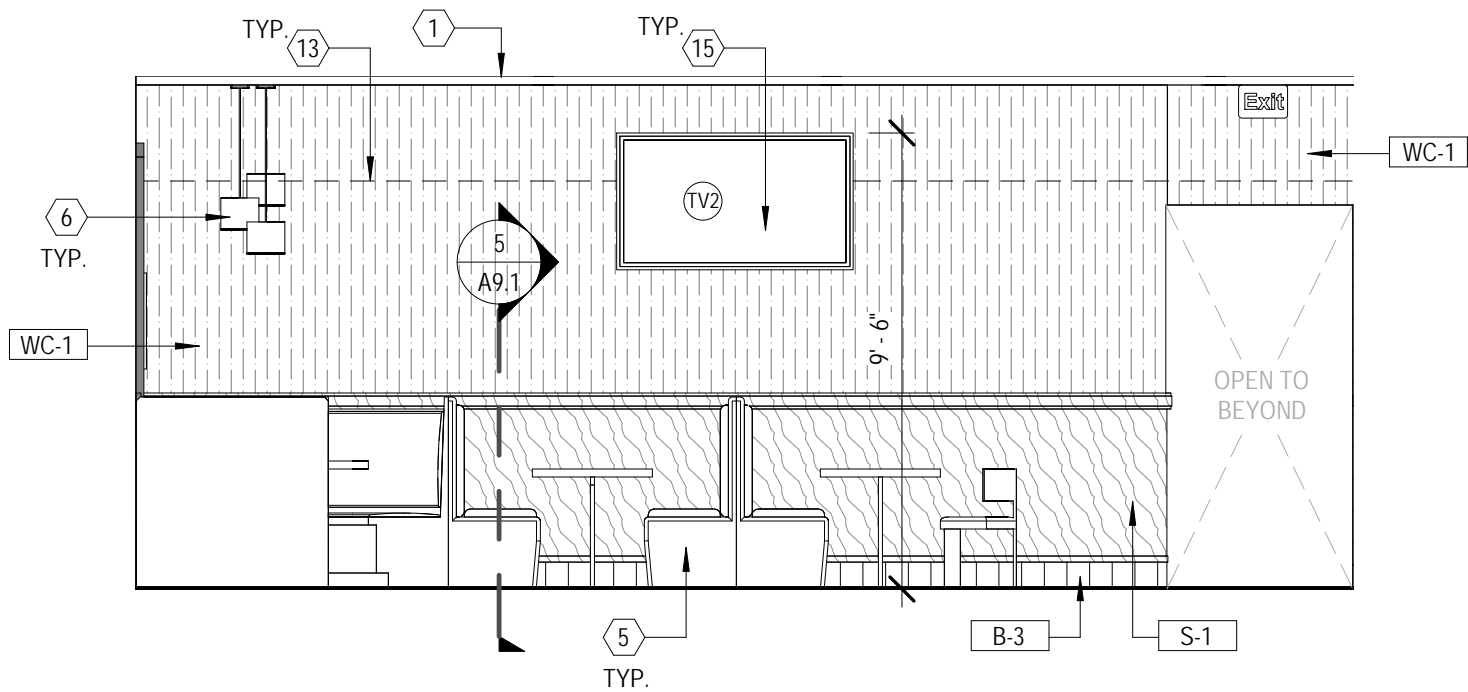
INTERIOR ELEVATION
1/4" = 1'-0"

1



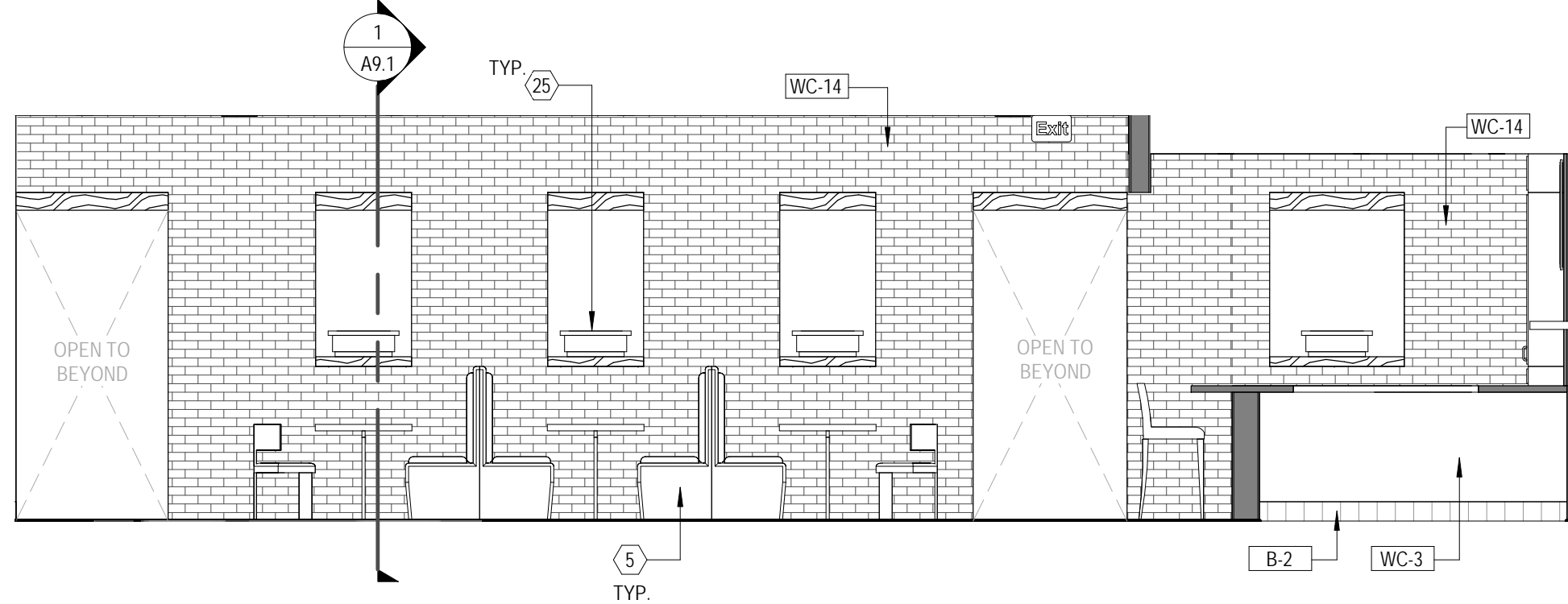
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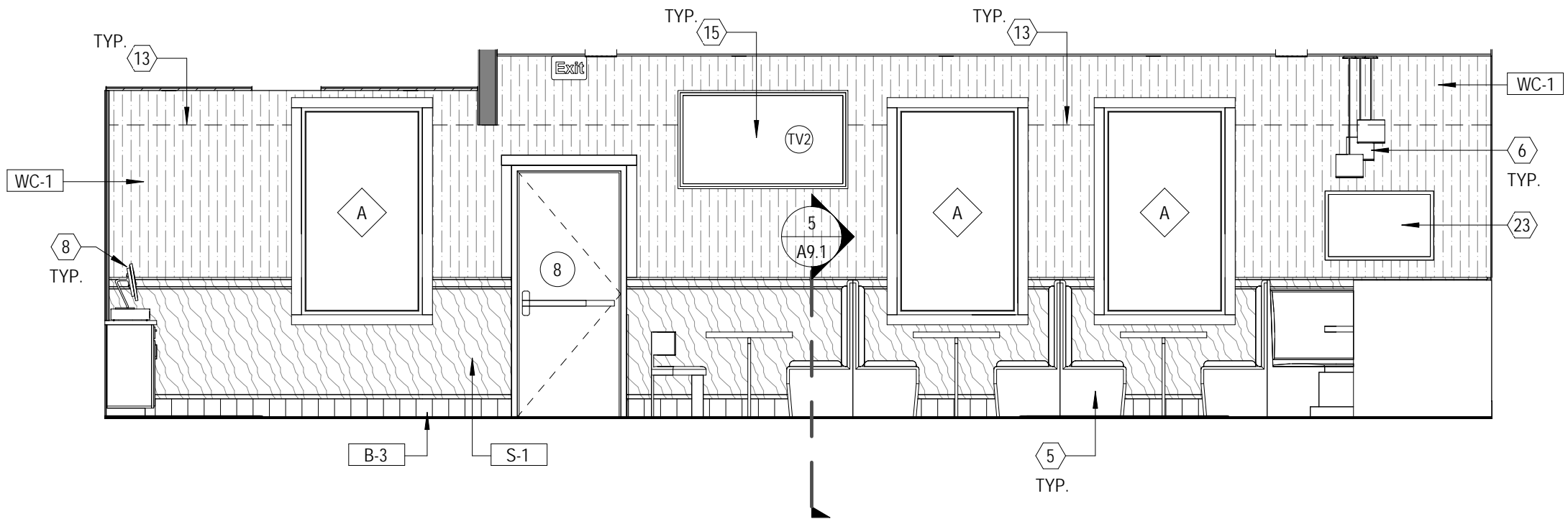
INTERIOR ELEVATION
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3



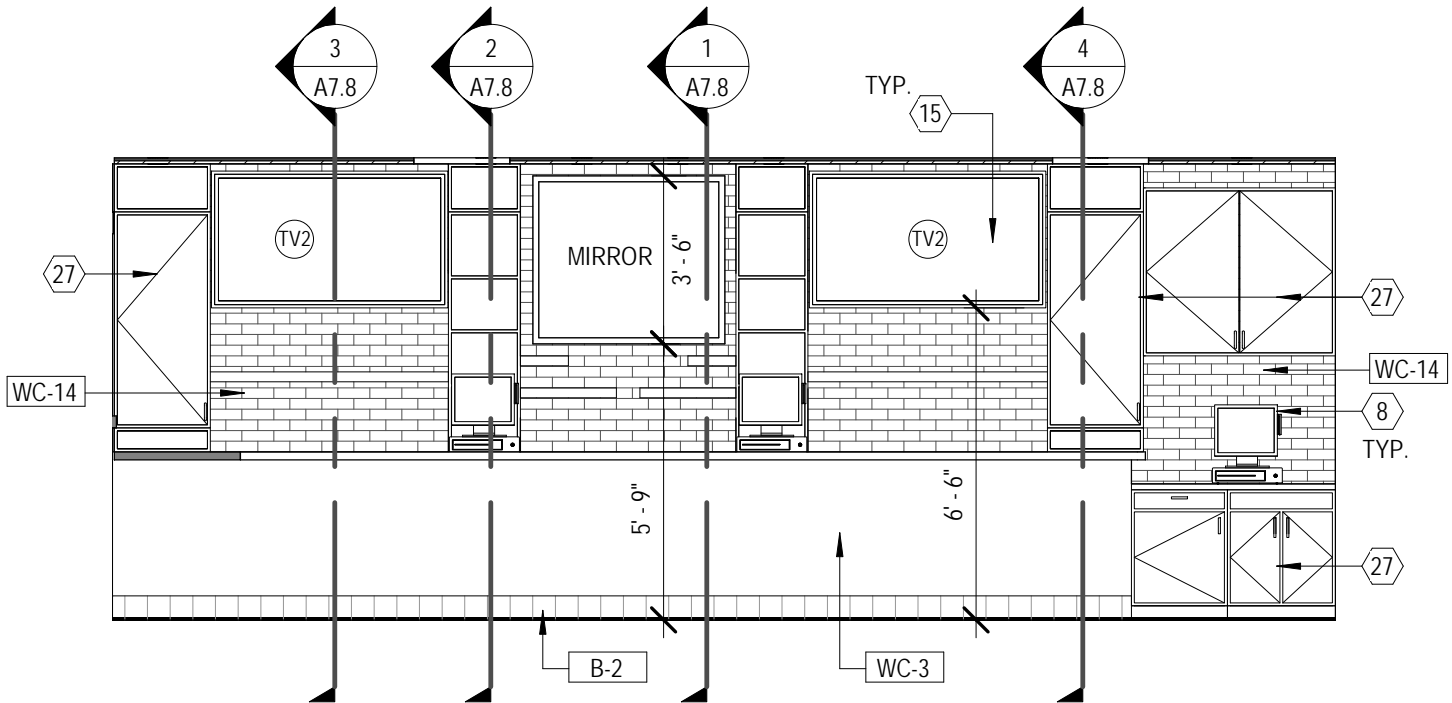
INTERIOR ELEVATION
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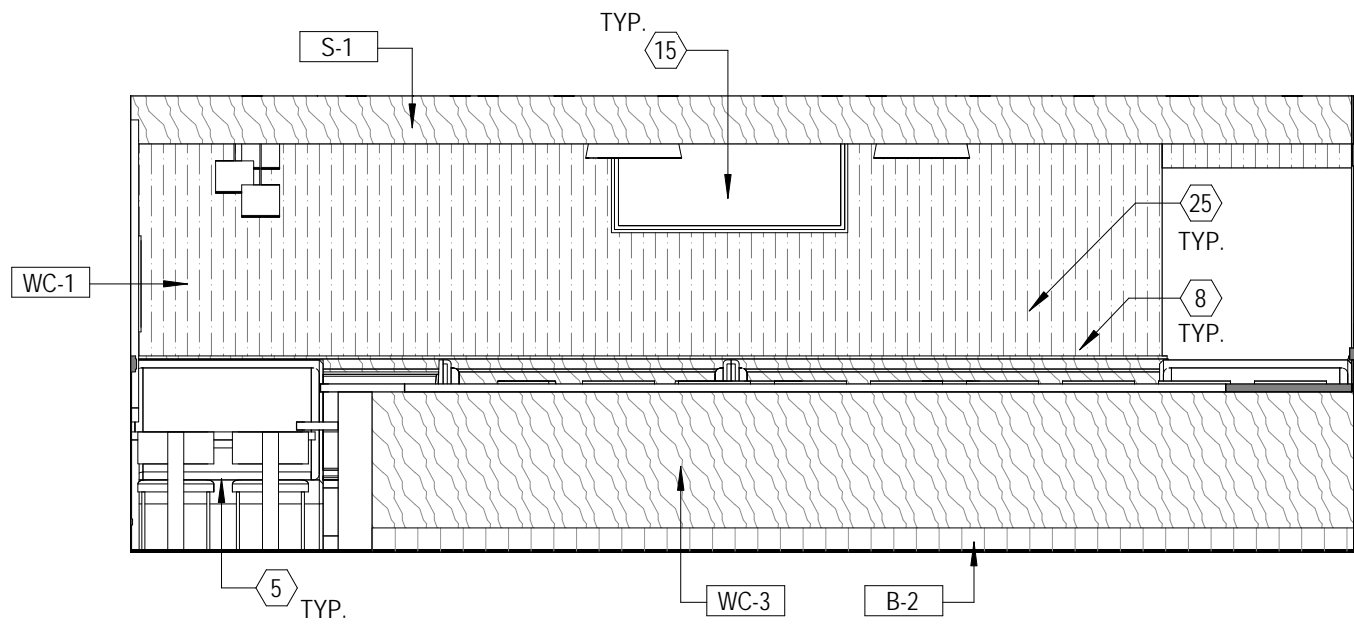
INTERIOR ELEVATION
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INTERIOR ELEVATION
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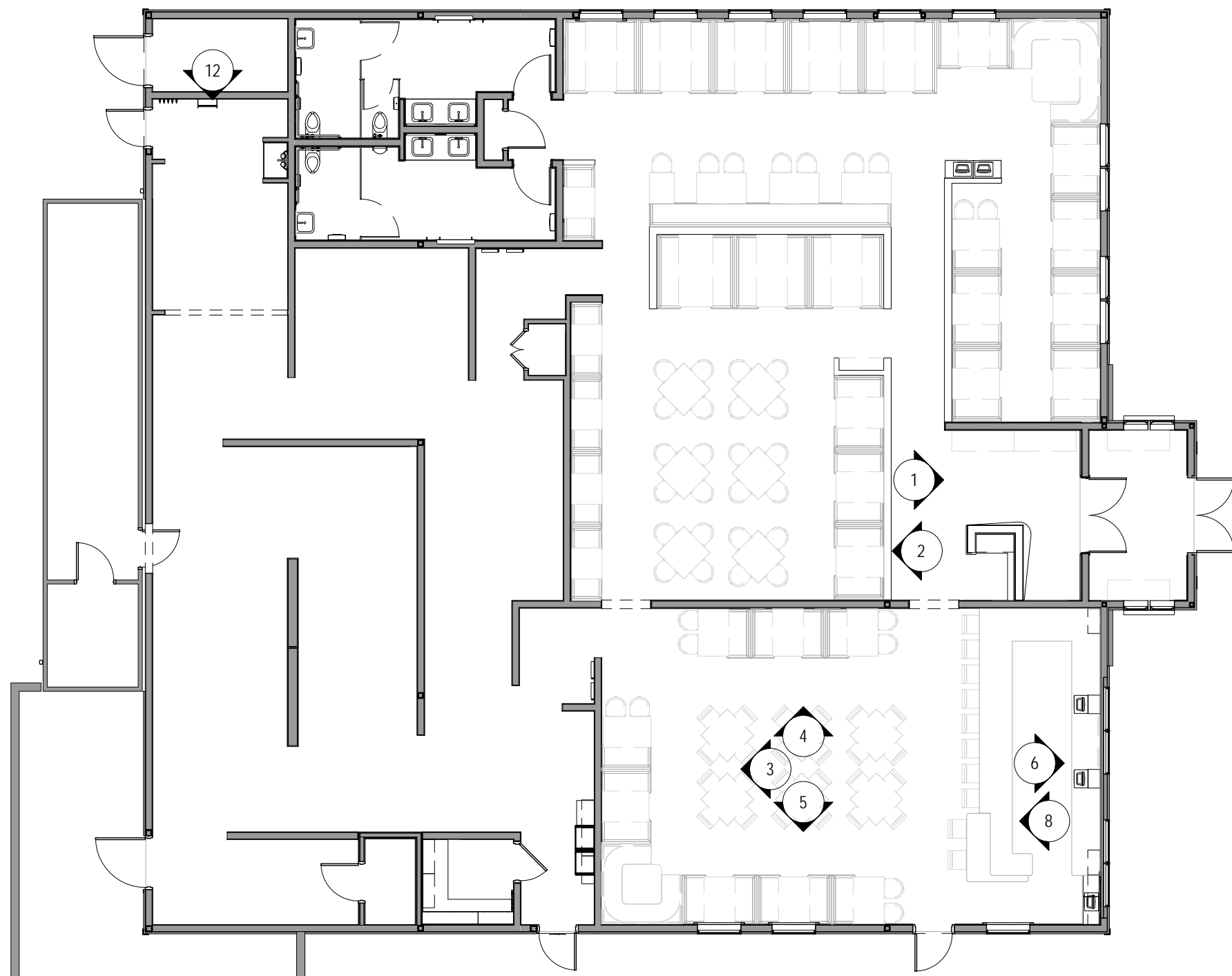
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INTERIOR ELEVATION
1/4" = 1'-0"

8

KEY PLAN



KEYNOTES - INTERIOR NOTES

- 1 STAINED 1X2 TRIM
- 2 EMERGENCY STROBE FIXTURE, RE: ELECTRICAL
- 3 HORN ANNUNCIATOR, RE: ELECTRICAL
- 4 EMERGENCY PULL STATION
- 5 FURNITURE BY OWNER
- 6 LIGHT FIXTURE, RE: ELECTRICAL AND RCP
- 7 PAINTED GYPSUM BOARD
- 8 POS STATION AND PRINTER BY OWNER
- 9 TACTILE EXIT SIGN
- 10 OCCUPANCY LOAD SIGN
- 11 STAINLESS STEEL WALL CAPS, RE: FOOD SERVICE
- 12 ADA RESTROOM SIGNAGE
- 13 LINE OF WALL COVERING SEAM
- 14 6" TALL HOUSEKEEPING PAD FOR ELECTRICAL EQUIPMENT, RE: ELECTRICAL AND STRUCTURAL
- 15 TELEVISION, RE: ELECTRICAL
- 16 WALK-IN COOLER DOOR, RE: KITCHEN
- 17 MECHANICAL HOOD SHOWN DASHED, RE: MECHANICAL
- 18 AIR CURTAIN, RE: ELECTRICAL
- 19 BOOTH DIVIDER BY OWNER
- 20 WALL MOUNTED TRAY HOLDER BY OWNER
- 21 SERVICE SINK FAUCET, RE: PLUMBING
- 22 ELECTRICAL EQUIPMENT, RE: ELECTRICAL
- 23 ART WORK BY OWNER
- 24 RECESSED HEATER TO BE LOCATED ABOVE BASE, RE: MECHANICAL
- 25 PLANTER POT BY OWNER
- 26 COAT HOOKS - PETER PEPPER 2141 XLAL COAT RACK-S- ALUM. WALL MOUNT 15"
- 27 CABINET TO BE PROVIDED WITH LOCKS

FINISH SCHEDULE - INTERIOR

- INTERIOR PAINT
- P-1 TAVERN TAUPE
 - P-2 IBIS WHITE
 - P-3 BLACK OF NIGHT
 - P-4 HALF CAFF
- STAIN
- S-1 EBONY
 - S-2 CLEAR SEALER
 - S-3 FLASSTONE
 - S-4 BRICK SEALER
- WALL COVERING
- WC-1 VINYL FABRIC
 - WC-2 FRP WHITE
 - WC-3 FRP BLACK
 - WC-4 WOOD LAMINATE
 - WC-5 PLASTIC LAMINATE-WHITE
 - WC-6 PLASTIC LAMINATE-BLACK
 - WC-7 STONE
 - WC-8 PORCELAIN TILE-CREME
 - WC-9 PORCELAIN TILE-TORTORA
 - WC-10 PORCELAIN TILE-TIGERS EYE
 - WC-11 QUARRY TILE
 - WC-12 WOOD PLANKS
 - WC-13 STAINLESS STEEL PANEL
 - WC-14 THIN BRICK
 - WC-15 WOOD PANEL
- GRANITE
- G-1 GRANITE, JUPABANNA ST. CECILIA
 - G-2 GRANITE-BLACK
 - G-3 CORIAN-SAHARA
- BASE
- B-1 PORCELAIN TILE-MINERAL CHROME
 - B-2 QUARRY TILE
 - B-3 PORCELAIN TILE-RESIDE
- CEILING
- C-1 ACOUSTICAL CEILING-BLACK
 - C-2 ACOUSTICAL CEILING-WHITE
 - C-3 NOT USED
 - C-4 V-GROOVE PLANK

MOOD MEDIA SCHEDULE

- TV1 42" TELEVISION
- TV2 65" TELEVISION

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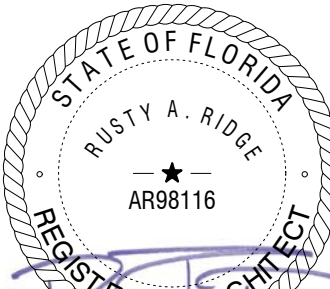
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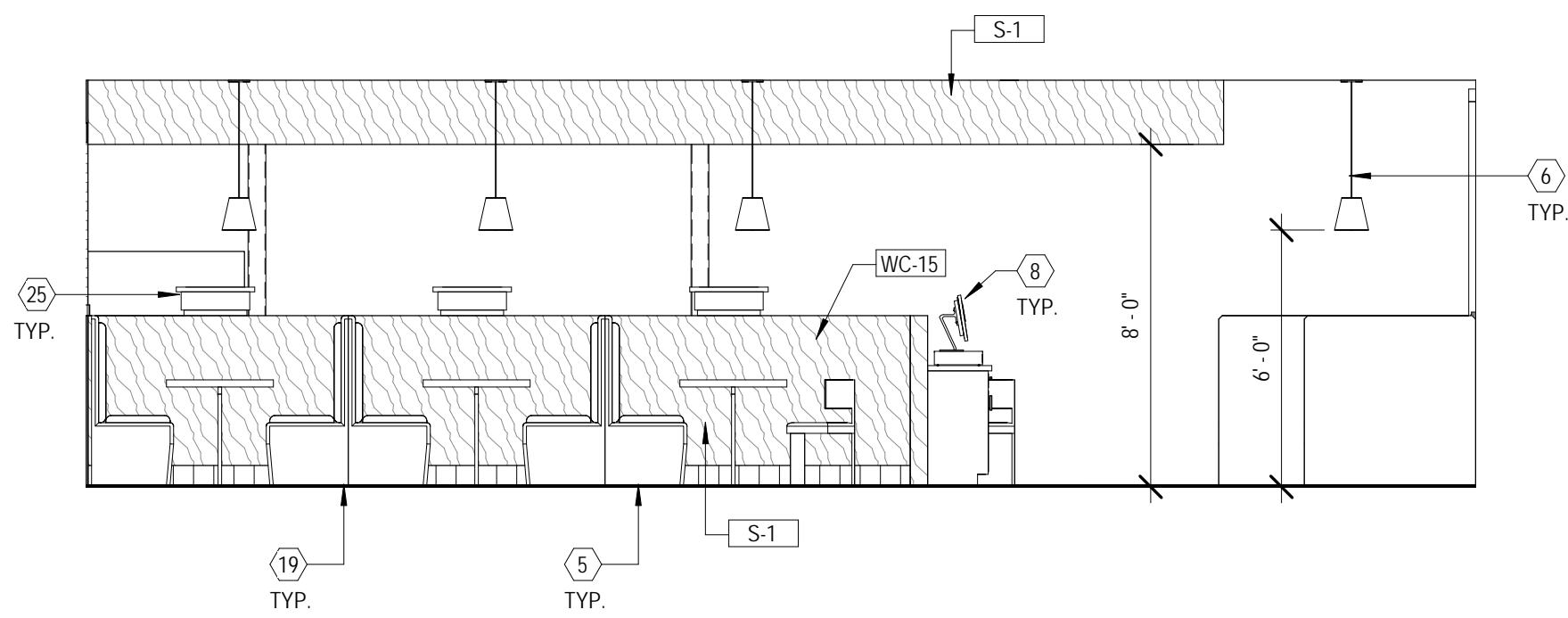
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Drawing:

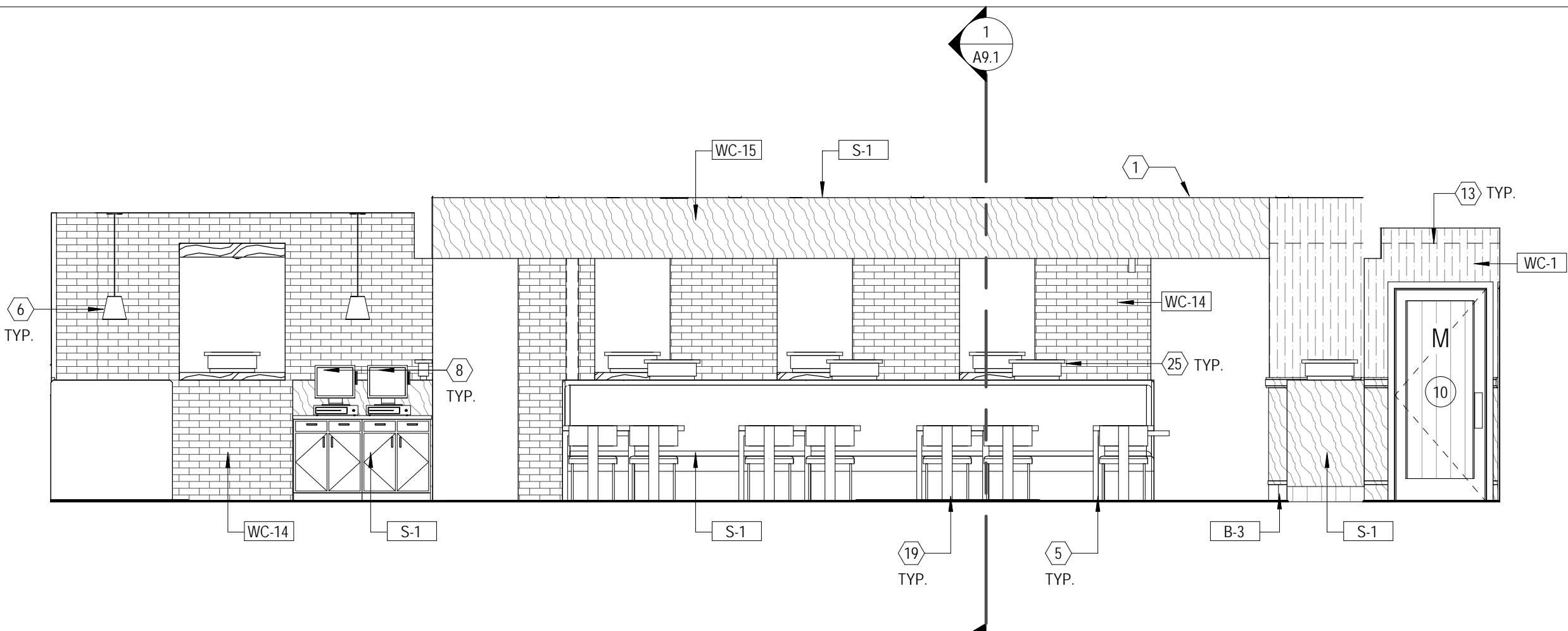
INTERIOR
ELEVATION

A7.1



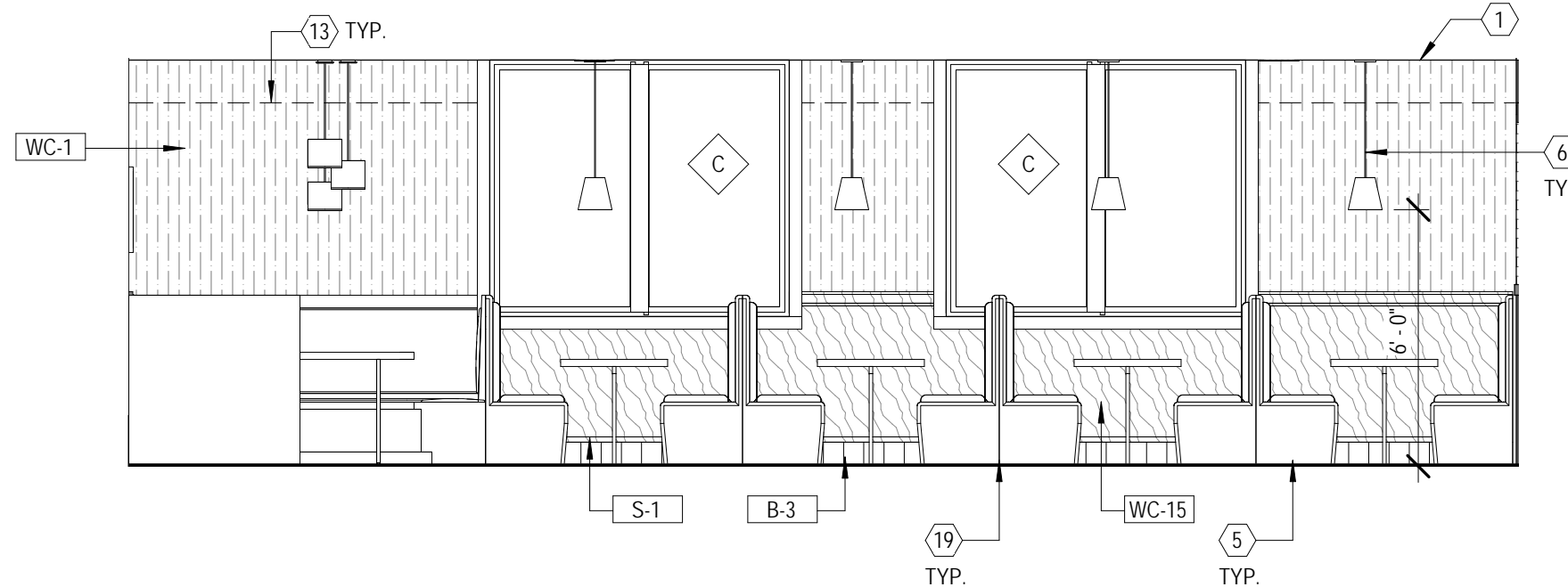
INTERIOR ELEVATION
1/4" = 1'-0"

9



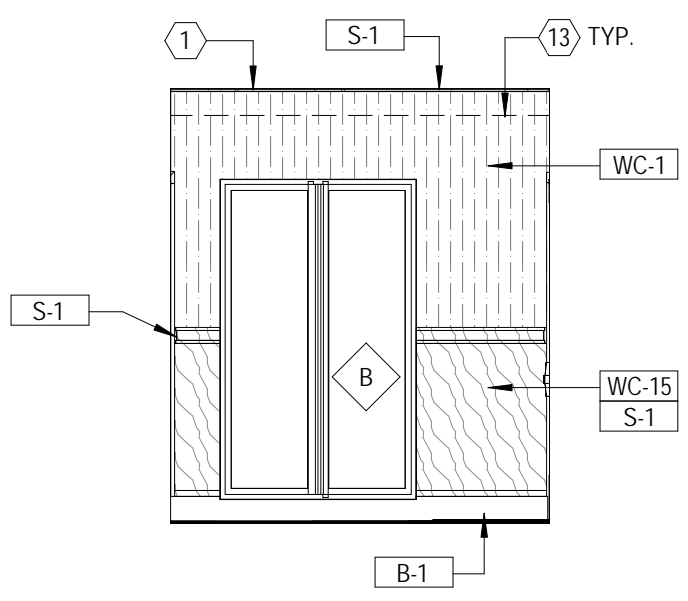
INTERIOR ELEVATION
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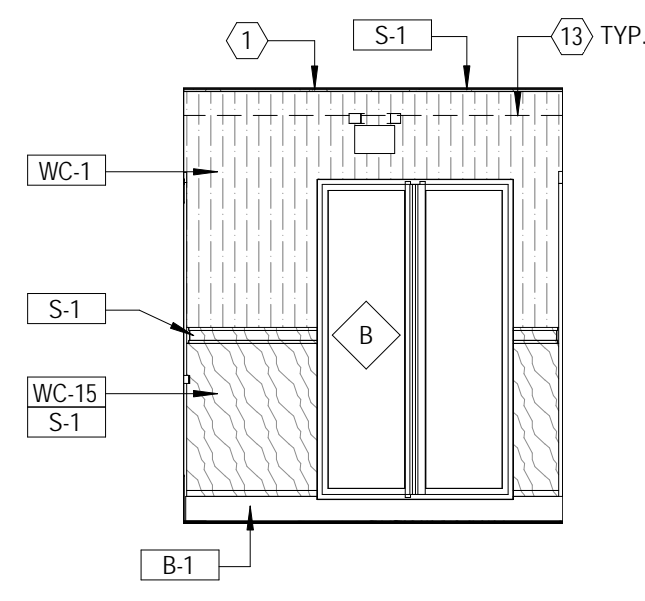
INTERIOR ELEVATION
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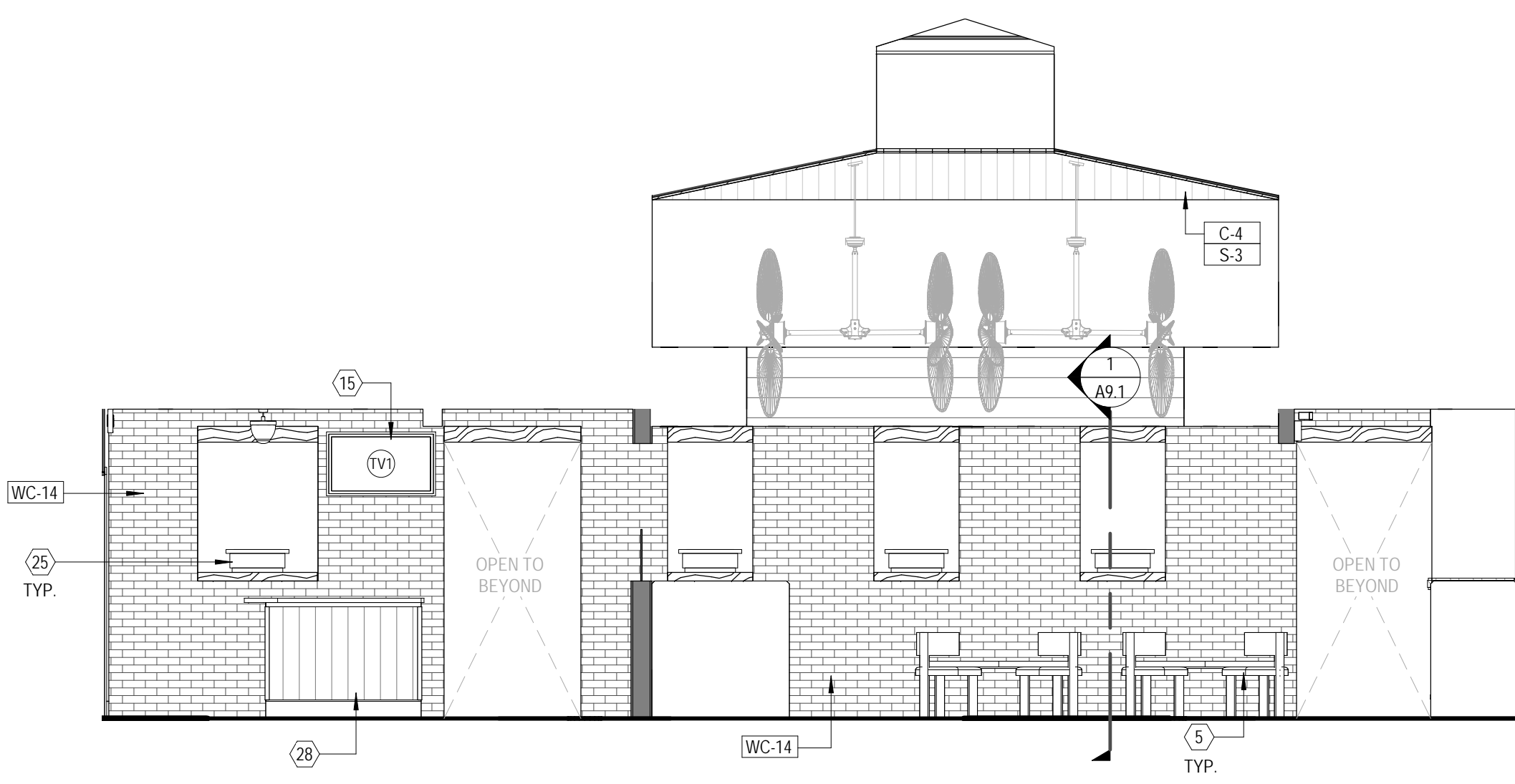
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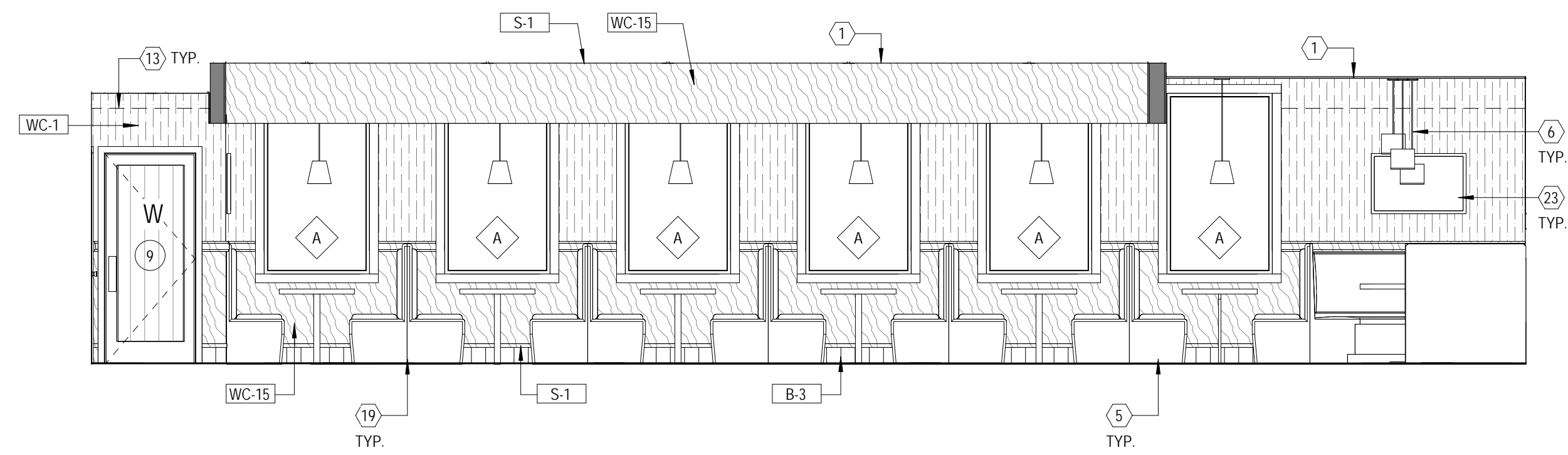
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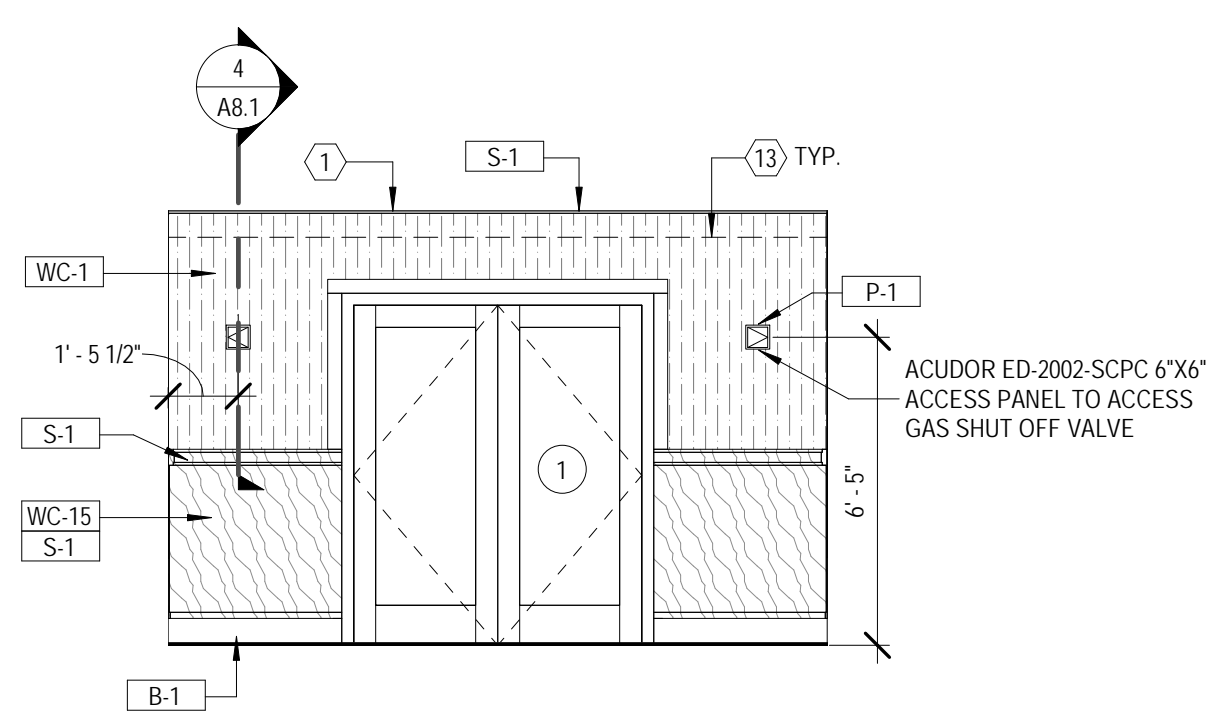
INTERIOR ELEVATION
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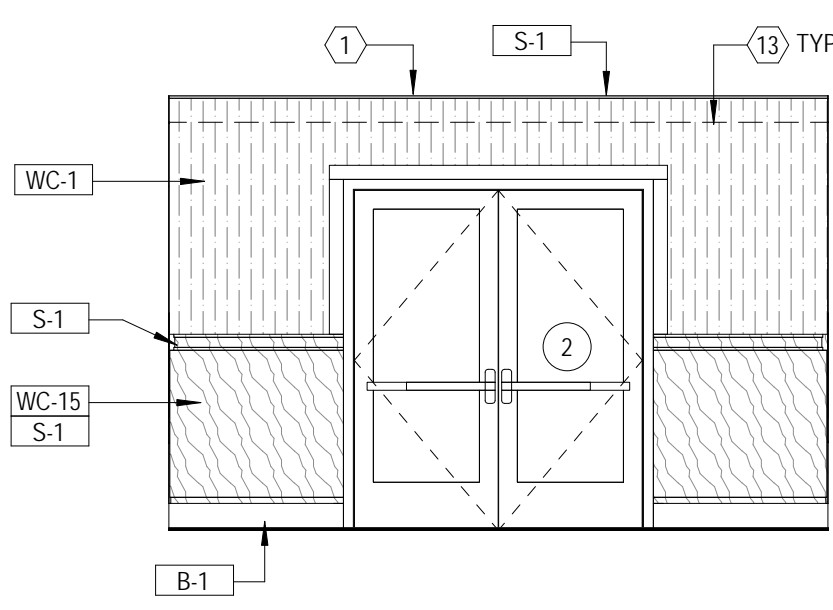
INTERIOR ELEVATION
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15



INTERIOR ELEVATION
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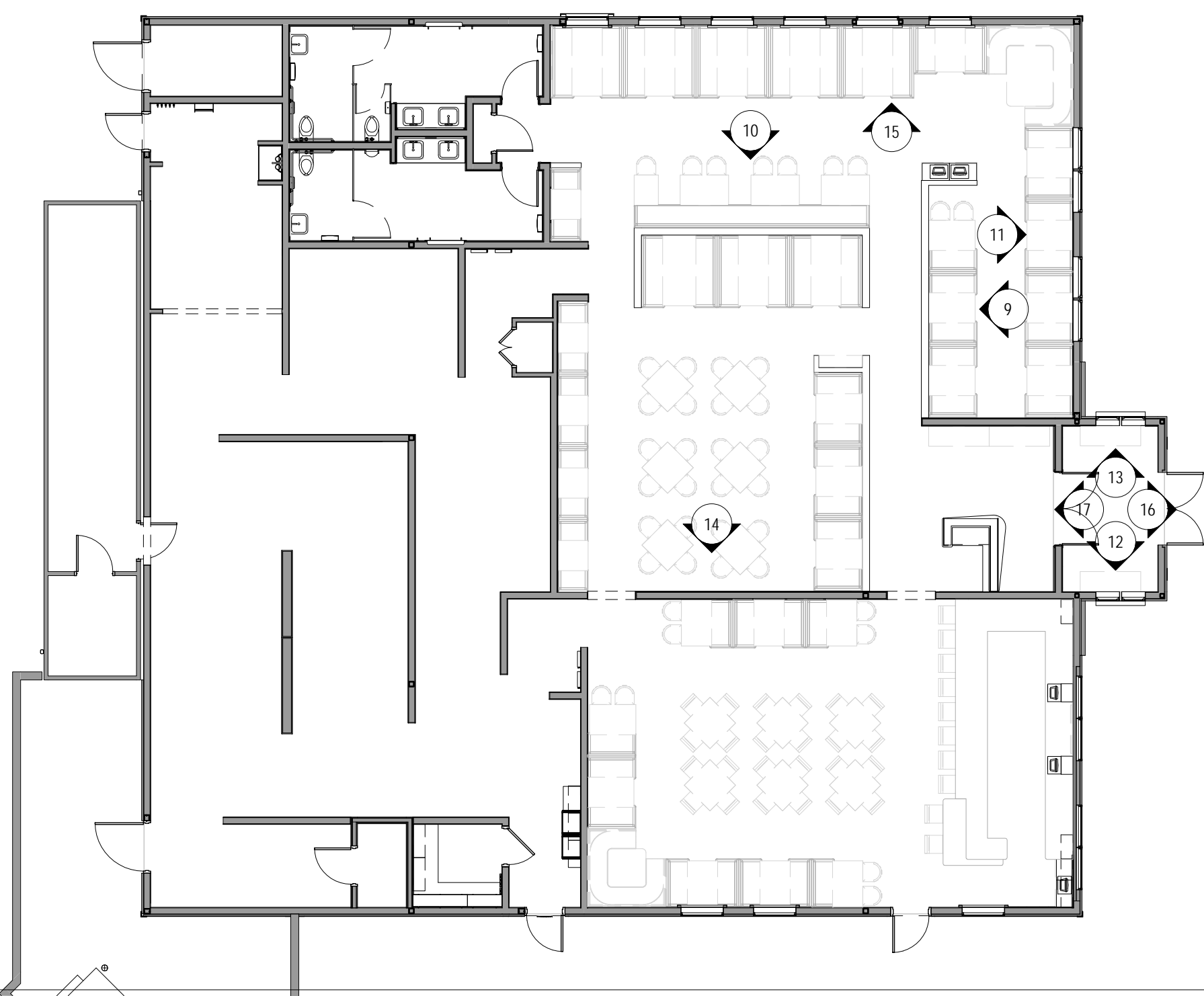
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INTERIOR ELEVATION
1/4" = 1'-0"

17

KEY PLAN



KEYNOTES - INTERIOR NOTES

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- 25 PLANTER POT BY OWNER
- 26 COAT HOOKS - PETER PEPPER 2141 XL AL COAT RACK S - ALUM. WALL MOUNT 15"
- 27 CABINET TO BE PROVIDED WITH LOCKS
- 28 HOST STAND, RE: 1/A9.3

FINISH SCHEDULE - INTERIOR

- INTERIOR PAINT
- P-1 TAVERN TAUPE
 - P-2 BIS WHITE
 - P-3 BLACK OF NIGHT
 - P-4 HALF CAFF
- STAIN
- S-1 EBONY
 - S-2 CLEAR SEALER
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 - B-3 PORCELAIN TILE-RESIDE
- CEILING
- C-1 ACOUSTICAL CEILING-BLACK
 - C-2 ACOUSTICAL CEILING-WHITE
 - C-3 NOT USED
 - C-4 V-GROOVE PLANK

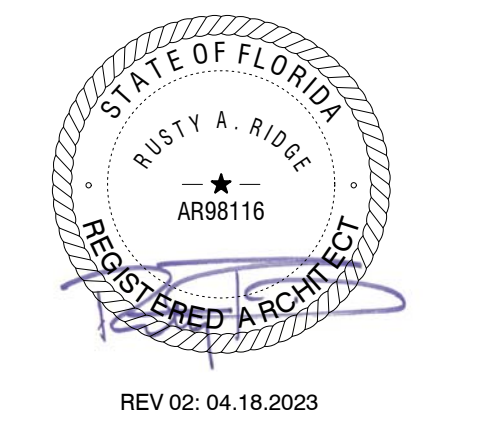
MOOD MEDIA SCHEDULE

- TV1 42" TELEVISION
- TV2 65" TELEVISION

idstudio

6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75061
TEL: 972.870.1288
WWW.IDSTUDIO4.COM
PROJECT NUMBER
DCH22007

CLIENT:
DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023
REVISION INFORMATION
1 04.04.2023
CITY COMMENTS
2 04.05.2023
COORDINATION COMMENTS

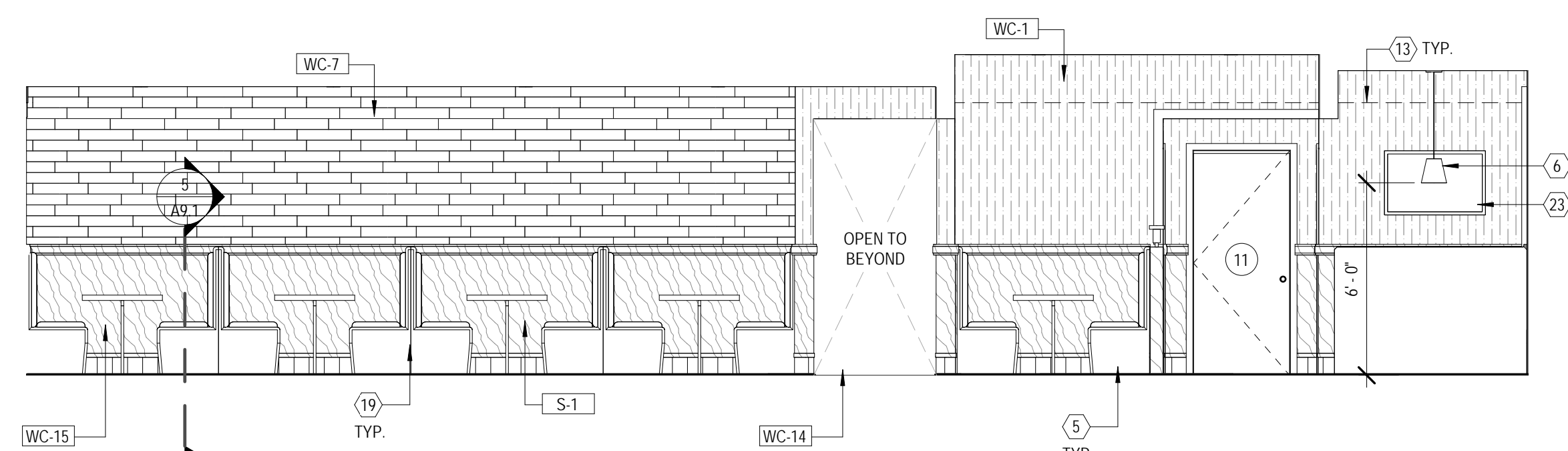
Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
INTERIOR
ELEVATION

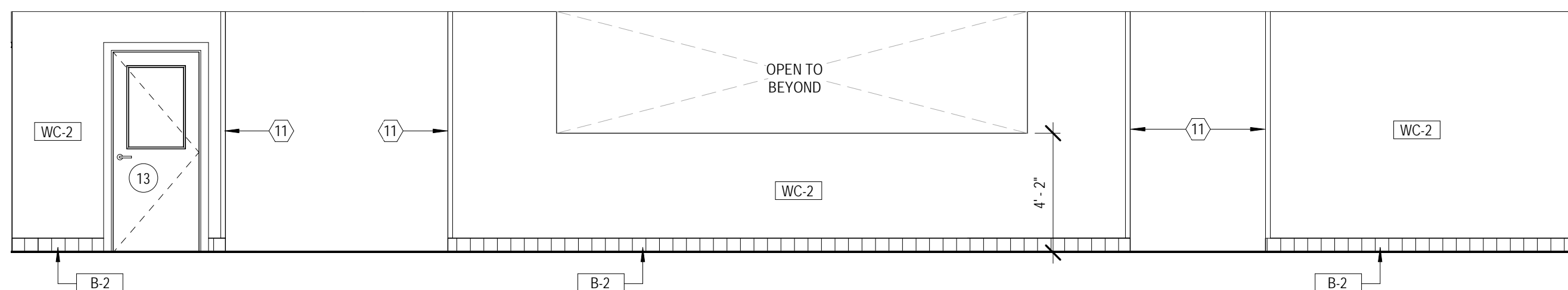
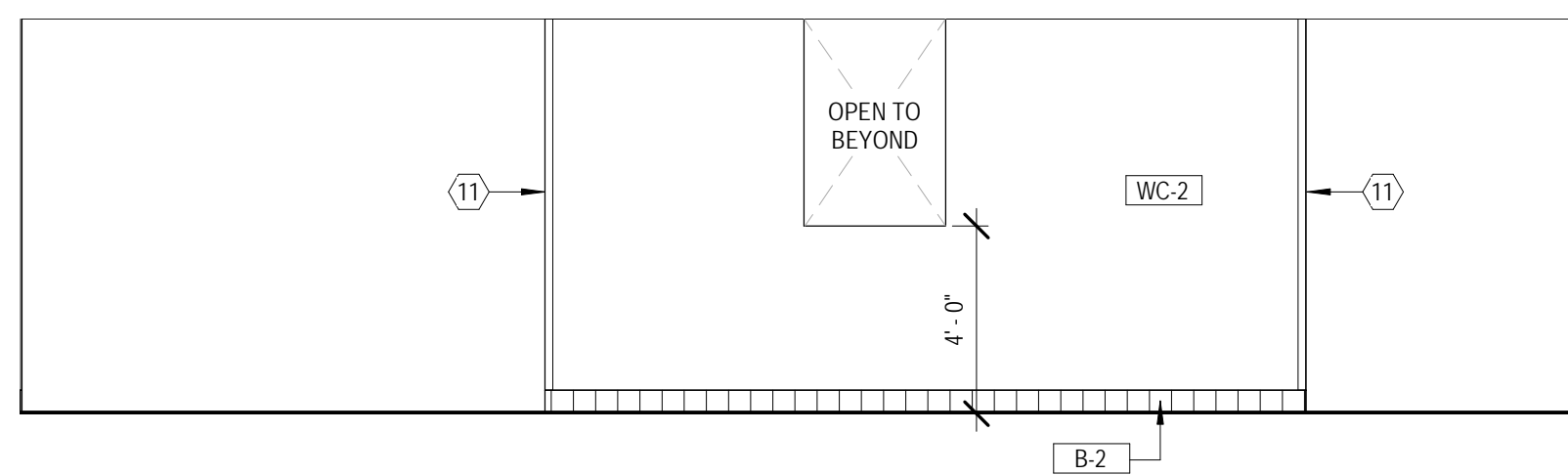
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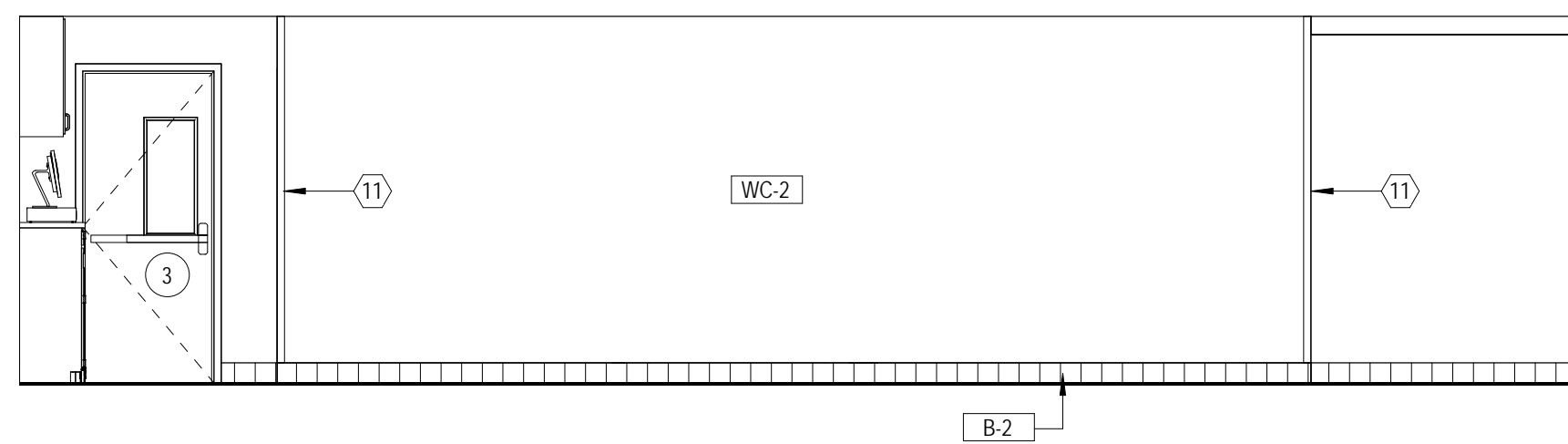
1	STAINED 1X2 TRIM
2	EMERGENCY STROBE FIXTURE, RE- ELECTRICAL
3	HORN ANNUNCIATOR, RE- ELECTRICAL
4	EMERGENCY PULL STATION
5	FURNITURE BY OWNER
6	LIGHT FIXTURE, RE- ELECTRICAL AND RCP
7	PAINTED GYPSUM BOARD
8	POS STATION AND PRINTER BY OWNER
9	TACTILE EXIT SIGN
10	OCCUPANCY LOAD SIGN
11	STAINLESS STEEL SINK, CABS, RE- FOOD SERVICE
12	ADA RESTROOM SIGNAGE
13	LINE OF WALL COVERING SEAM
14	6 TALL HOUSEKEEPING PAD FOR ELECTRICAL EQUIPMENT, RE- ELECTRICAL AND STRUCTURAL
15	TELEVISION, RE- ELECTRICAL
16	WALK-IN COOLER DOOR, RE- KITCHEN
17	MECHANICAL HOOD SHOWN DISCHARGE, RE- MECHANICAL
18	IR CURTAIN, RE- ELECTRICAL
19	BOOTH DIVIDER BY OWNER
20	WALL MOUNTED TRAY HOLDER BY OWNER
21	SERVICE SINK FAUCET, RE- PLUMBING
22	ELECTRICAL EQUIPMENT, RE- ELECTRICAL
23	ART WORK BY OWNER
24	RECESSED HETER TO BE LOCATED ABOVE BASE, RE- MECHANICAL
25	PLASTER PUT BY OWNER
26	COAT HOOKS, PETER PEPPER 2141-XL COAT RACKS-5 ALUM. WALL MOUNT 15

INTERIOR PAINT	
P-1	TAVERN TAUPE
P-2	IBIS WHITE
P-3	BLACK OF NIGHT
P-4	HALF CAFF
STAIN	
S-1	EBONY
S-2	CLEAR SEALER
S-3	FLAGSTONE
S-4	BRICK SEALER
WALL COVERING	
WC-1	VINYL FABRIC
WC-2	FRP-WHITE
WC-3	FRP-BLACK
WC-4	WOOD LAMINATE
WC-5	PLASTIC LAMINATE-WHITE
WC-6	PLASTIC LAMINATE-BLACK
WC-7	STONE
WC-8	PORCELAIN TILE-CREME
WC-9	PORCELAIN TILE-TORTORA
WC-10	PORCELAIN TILE-TIGERS EYE
WC-11	QUARRY TILE
WC-12	WOOD PLANKS
WC-13	STAINLESS STEEL PANEL
WC-14	THIN BRICK
WC-15	WOOD PANEL
GRANITE	
G-1	GRANITE-JUPARANA ST. CECILIA
G-2	GRANITE-BLACK
G-3	CORIAN-SAHARA
BASE	
B-1	PORCELAIN TILE-MINERAL CHROME
B-2	QUARRY TILE
B-3	PORCELAIN TILE-RESIDE
CEILING	
C-1	ACOUSTICAL CEILING-BLACK
C-2	ACOUSTICAL CEILING-WHITE
C-3	NOT USED
C-4	V-GROOVE PLANK

2

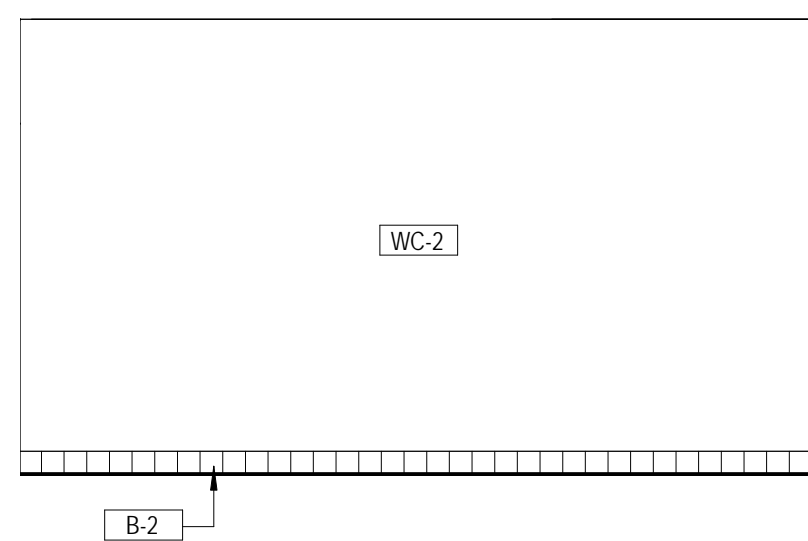
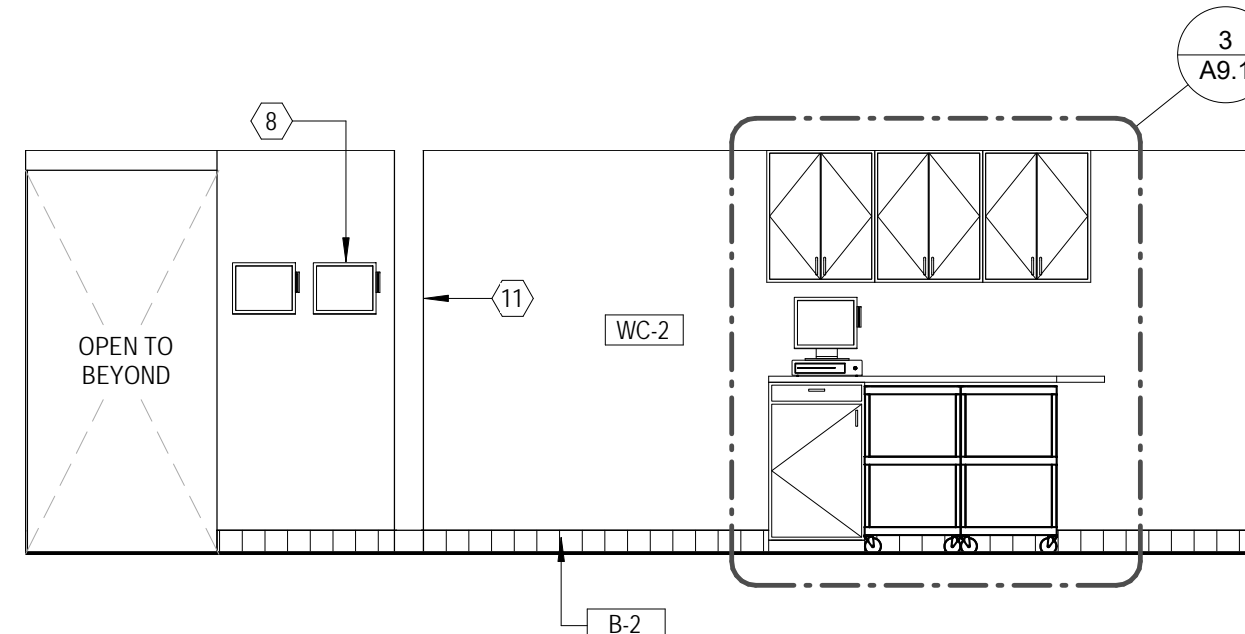
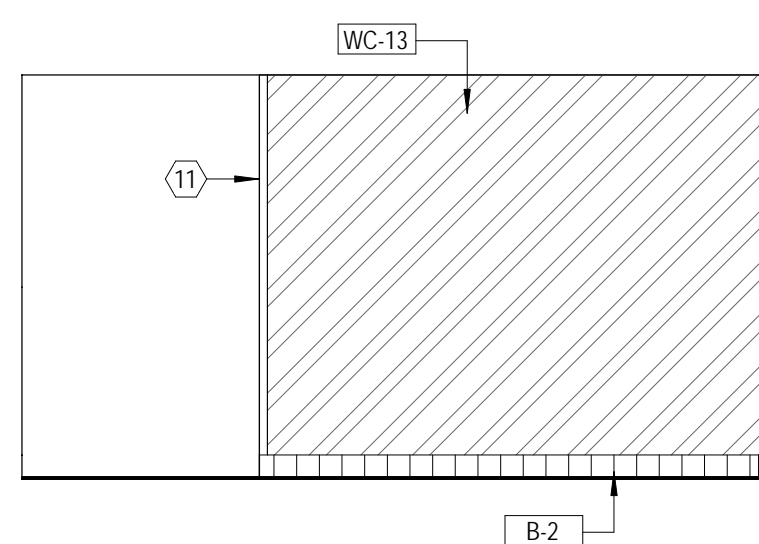
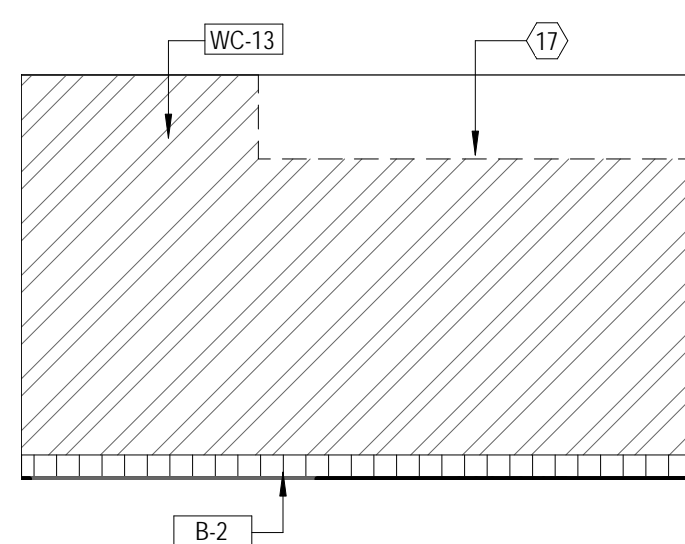


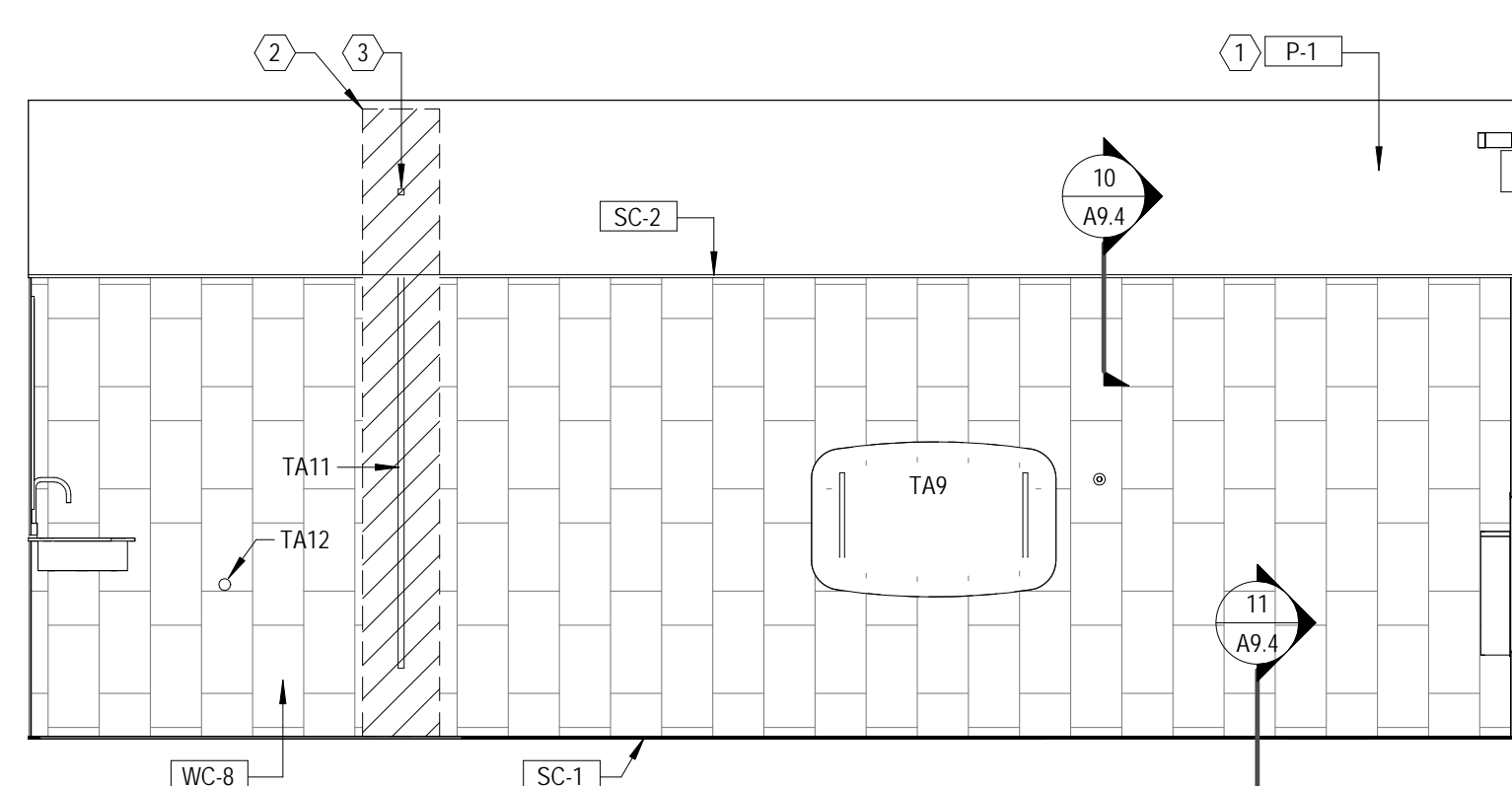
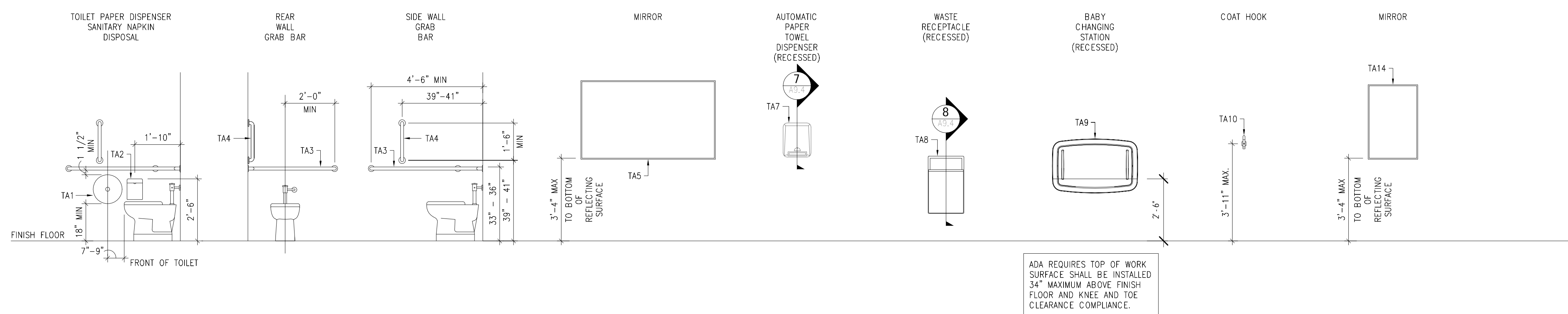
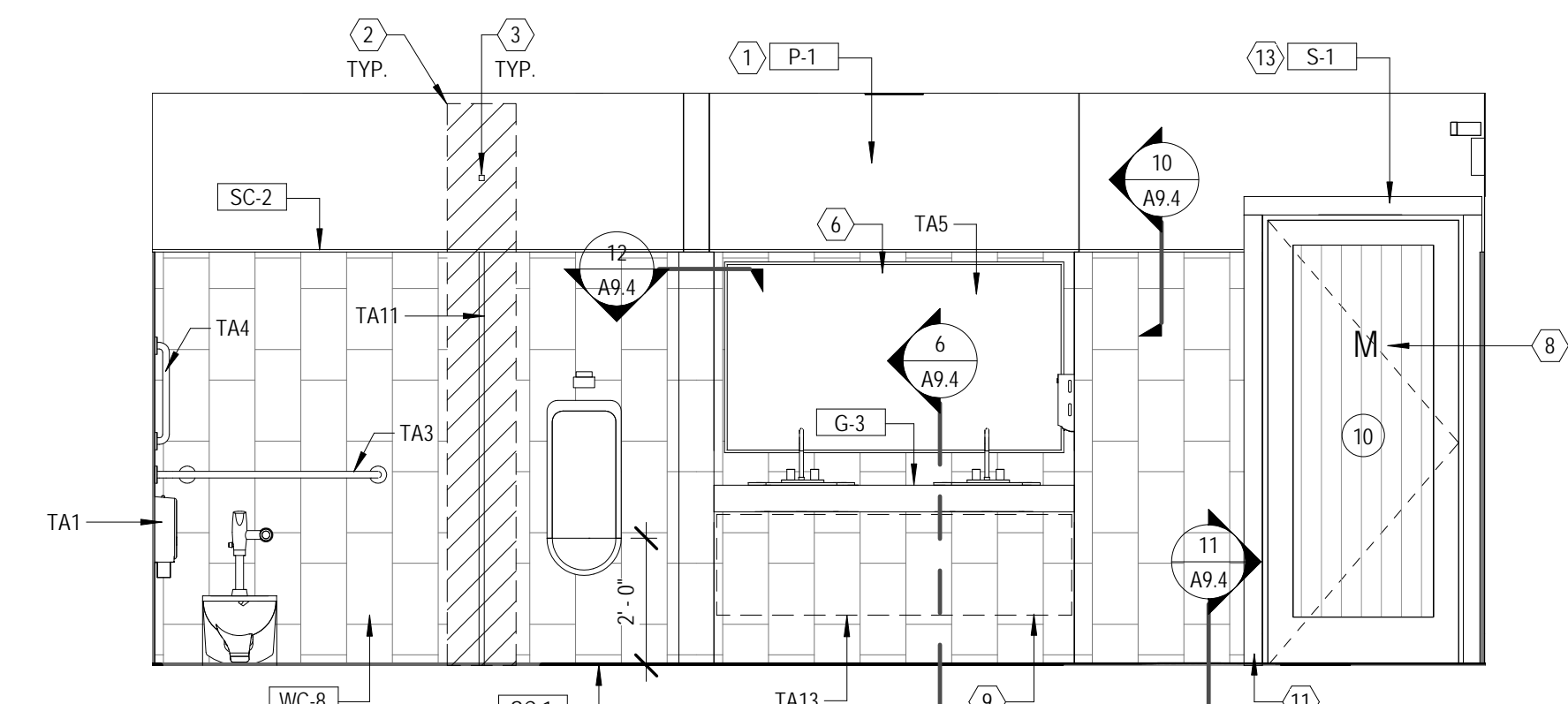
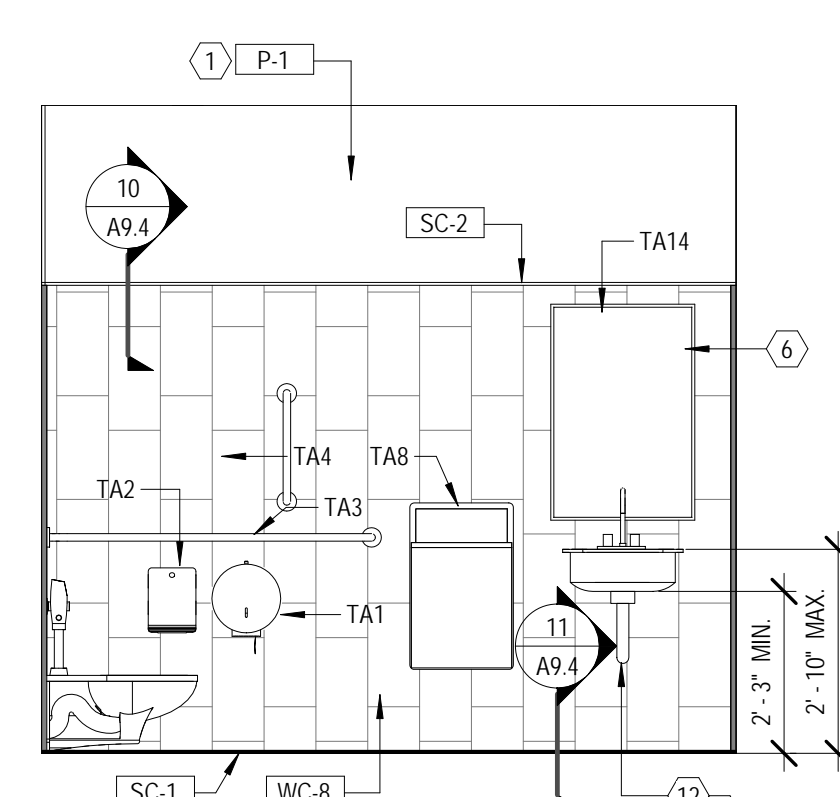
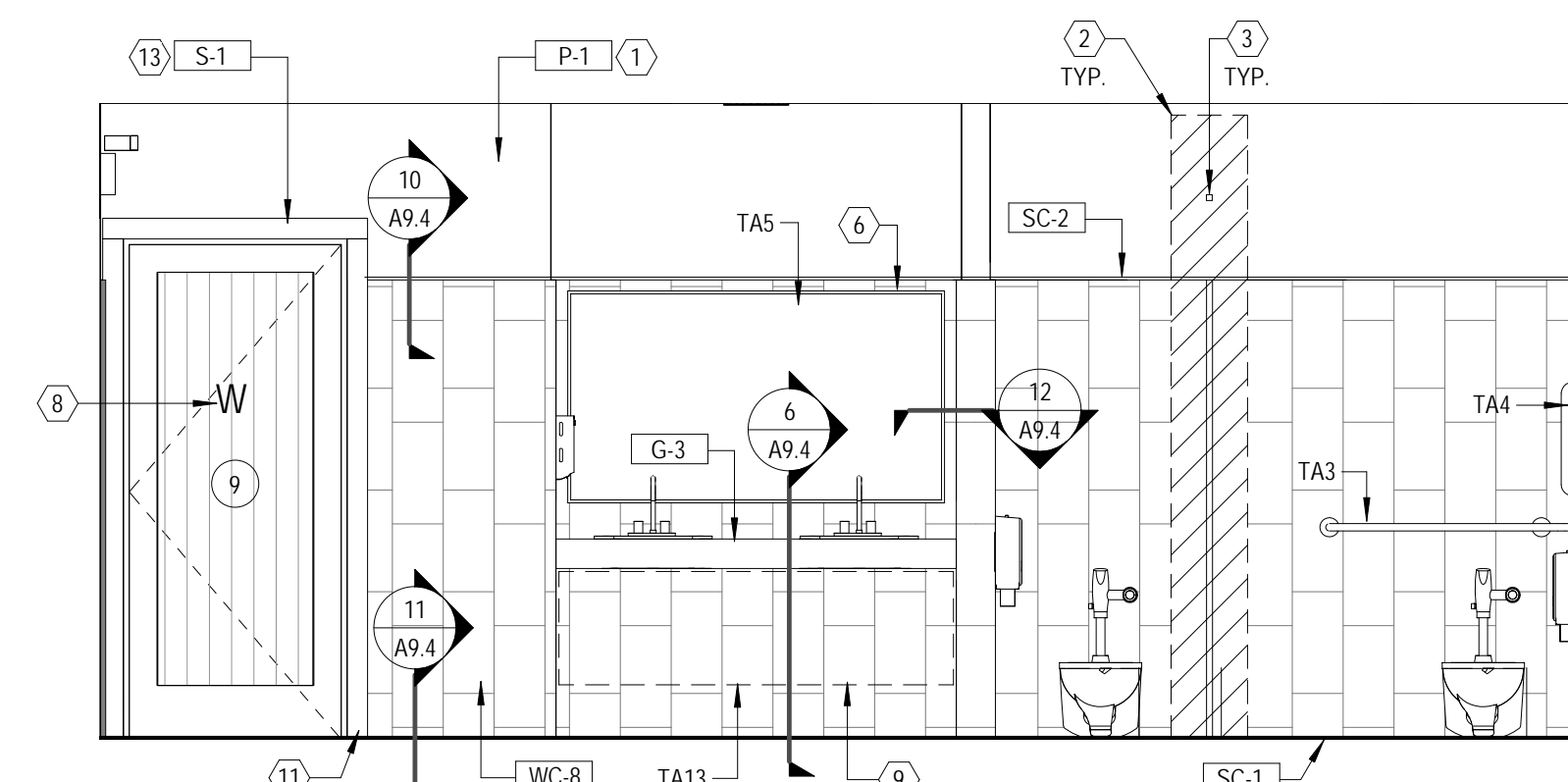
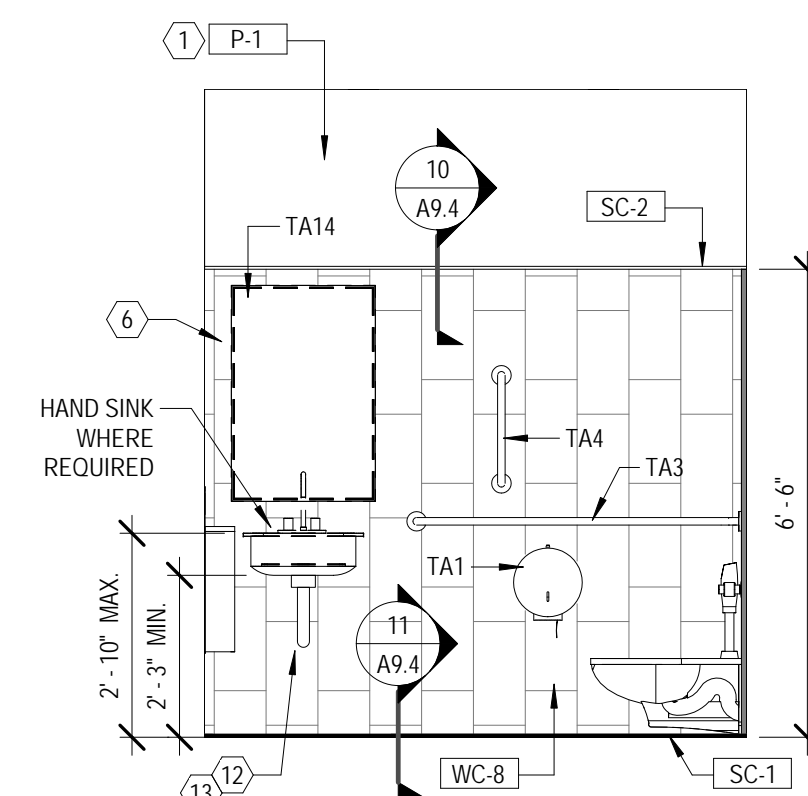
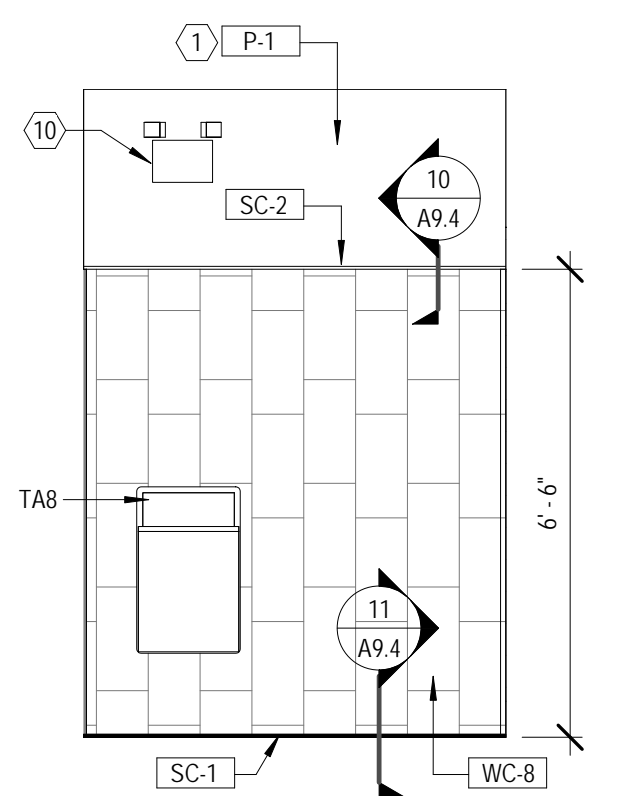
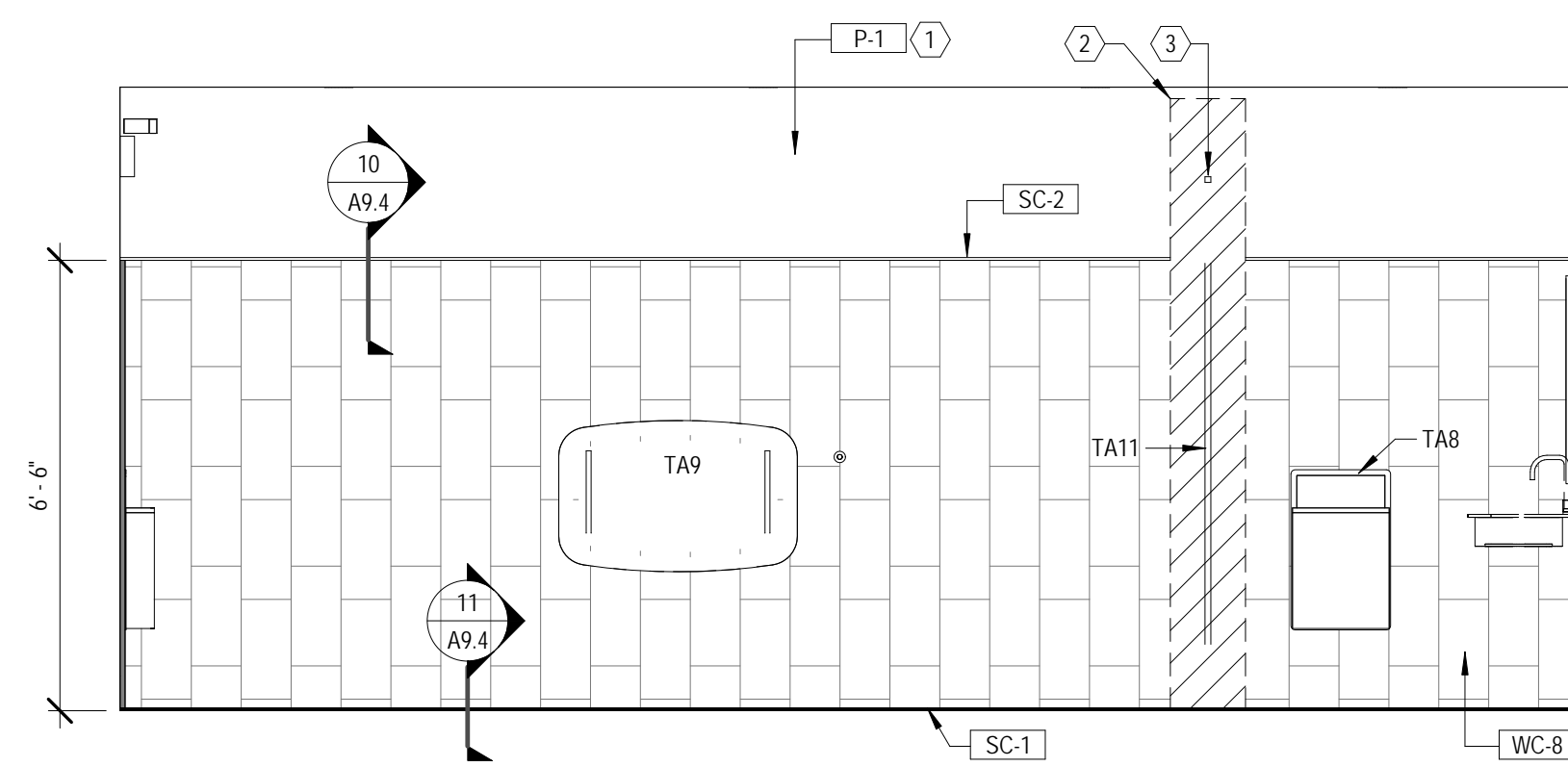
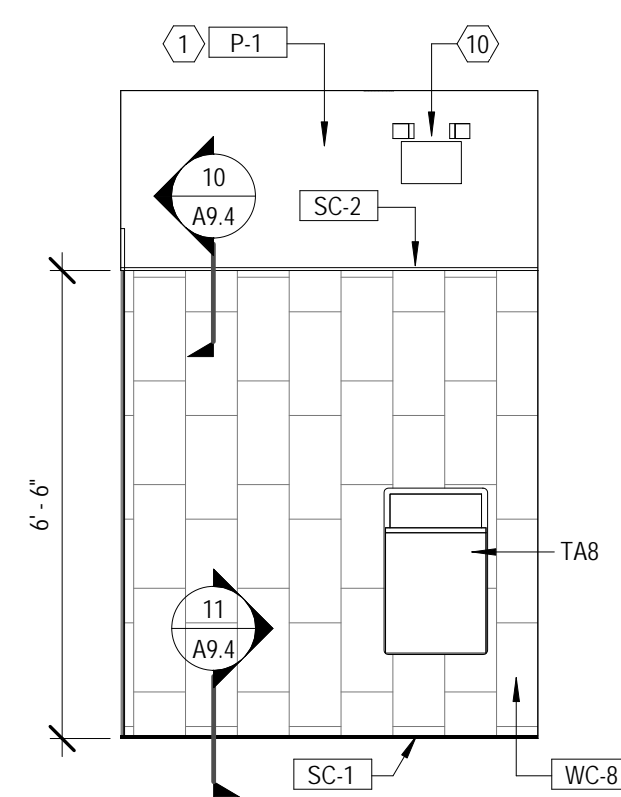
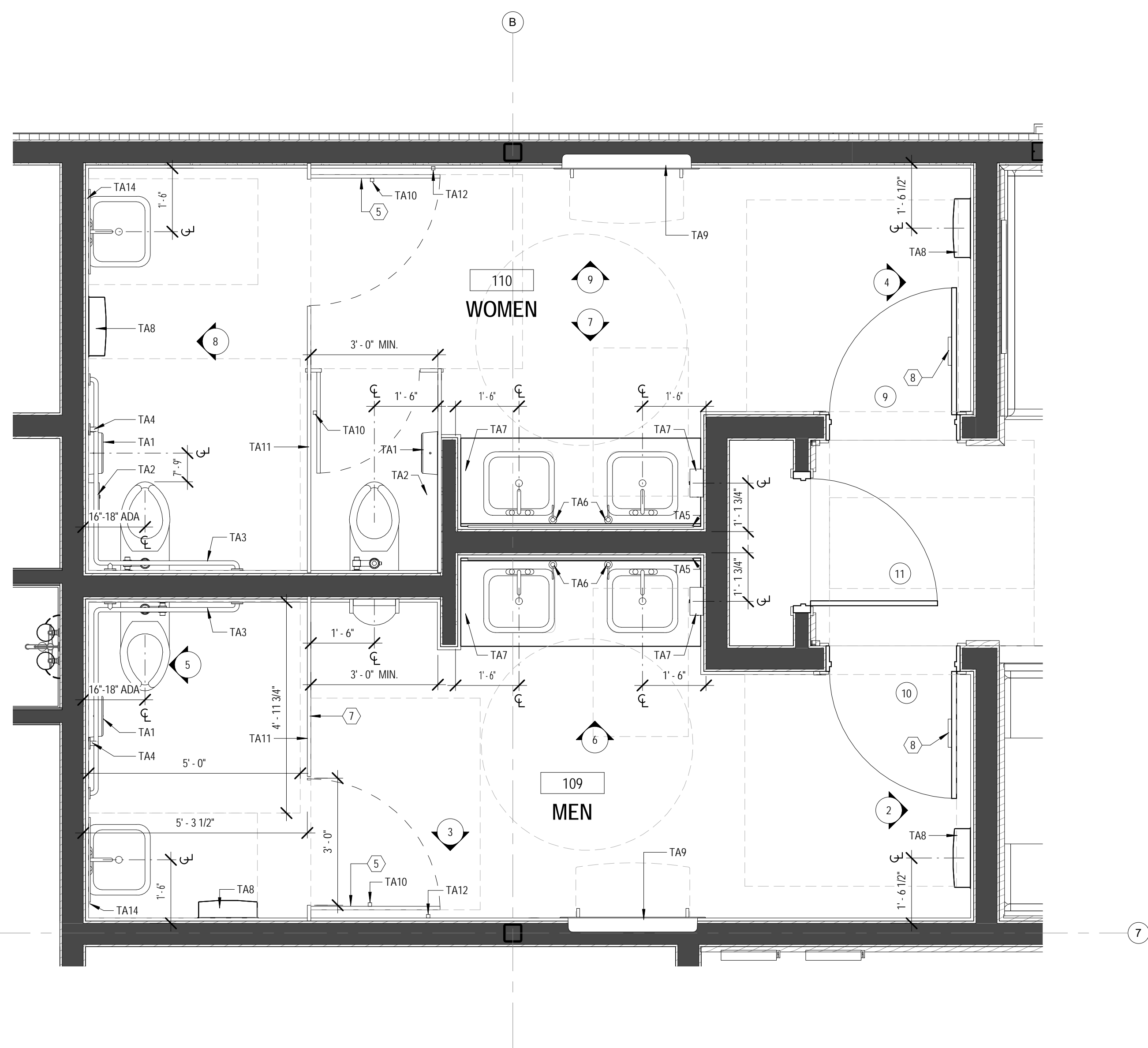
21



1/4" = 1'-0"	22
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KEY PLAN



GENERAL NOTES - RESTROOM

A	1/4" GAP MAX AT DOORS TO TOILET PARTITION.
B	PROVIDE METAL BACKING FOR ALL ACCESSORIES AND ANCHOR WITH TOGGLE BOLTS OR LAG SCREWS - NO PLASTIC EXPANSION SHIELDS.
C	REFER TO PLUMBING DRAWINGS FOR SPECS OF ALL WATER CLOSETS, LAVATORIES AND URINALS.
F	ALL WALLS IN KITCHEN, STORAGE AND OFFICE TO RECEIVE FRP OVER DESIGNATED WALL TYPE. REFER TO WALL SCHEDULE THIS SHEET.
G	REFER TO SHEETS A7.X FOR ALL INTERIOR ELEVATIONS AND TAGS.

KEYNOTES - RESTROOM	
1	GYPSUM BOARD AS SCHEDULED

2	SHAVED AREA INDICATES BLOCKING TO BE PROVIDED WITHIN THE WALLS BEHIND PARTITIONS.	
3	OVERHEAD TOILET PARTITION BRACING MOUNTED TO CEILING	
4	AUTOMATIC FLUSH VALVE SENSOR PER MANUFACTURER. RE-PLUMBING	
5	ADA REQUIRES DOOR LATCH ON BOTH SIDES OF DOOR NEAR LATCH IN ACCESSIBLE STALL	
6	TOILET TO BE RUN BEHIND MIRROR	
7	PARTITION PLASTER TO BE RUN FLOOR TO CEILING	
8	VINYL DOOR STICKERS ON EXTERIOR SIDE OF DOOR. ALIGN WITH ADJACENT ADA SIGNAGE. PROVIDED BY OWNER. INSTALLED BY G.C.	
9	LINE OF MILLWORK PANEL, SHOWIN DASHED	
10	ENERGENCY LIGHTS AS SCHEDULED. RE- ELECTRICAL	
11	STAINED 1/4 TRIM	
12	PROVIDE KNEE AND TOE CLEARANCE UNDER SINK PER ADA REQUIREMENTS	
13	LAVATORY DRAIN AND SUPPLY LINES SHALL BE INSULATED. RE- PLUMBING	
TOILET ACCESSORY SCHEDULE		
T01	TOILET TISSUE DISPENSER	GEORGIA PACIFIC 5499Z, STAINLESS OWNER PROVIDED
T02	FEMINE NAPKIN DISPOSAL (WOMEN ONLY)	BOBBICK B-270
T03	GRAB BAR - CONTINUOUS	BOBBICK B-5897
T04	GRAB BAR - VERTICAL	BOBBICK B-5806X18
T05	MIRROR	61X36" WITH BROWN EDGE DLT4 44000 WITH CHROME FINISH
T06	SOAP DISPENSER	GEORGIA PACIFIC CHROMATECH 59166 WITH POWER UNIT- OWNER PROVIDED
T07	RECESSED WASTED PAPER TOLL DISPENSER	BOBBICK B-43644
T08	RECESSED WASTE RECIPIABLE	
T09	RECESSED MOUNTED BABY CHANGING STATION	KOALA KARE KB210 SSR5
T10	COAT HOOK	BOBBICK B-6171
T11	TOILET PARTITIONS	FORMICA-5489 NT ESPRESSO PEAR
T12	TOILET PARTITION BRACING	4X4X6 202-480
T13	LAVATORY CLIPS	4X1/2X 202 49 310. NO FACE SCREWS
T14	MIRROR	24F36" WITH BROWN EDGE
T15	RECESSED WASTE RECIPIABLE AND AUTOMATIC PAPER TISSUE DISPENSER	GEORGIA PACIFIC 5491H HIGH CAPACITY TRASH RECIPIABLE FOR EMOTION RECESSED AUTOMATED TISSUE DISPENSER

FINISH SCHEDULE - INTERIOR	
INTERIOR PAINT	
P-1	TAVERN TAUPE
P-2	IBIS WHITE
P-3	BLACK OF NIGHT
P-4	HALF CAFF
STAIN	
S-1	EBONY
S-2	CLEAR SEALER
S-3	FLASSTONE
S-4	BRICK SEALER
WALL COVERING	
WC-1	VINYL FABRIC
WC-2	FRP-WHITE
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G-1	GRANITE-JUPARANNA ST. CECILIA
G-2	GRANITE-BLACK
G-3	CORIAN SAHARA
BASE	
B-1	PORCELAIN TILE-MINERAL CHROME
B-2	QUARRY TILE
B-3	PORCELAIN TILE-RESIDE
CEILING	
C-1	ACOUSTICAL CEILING-BLACK
C-2	ACOUSTICAL CEILING-WHITE
C-3	NOT USED
C-4	V-GROOVE PLANK

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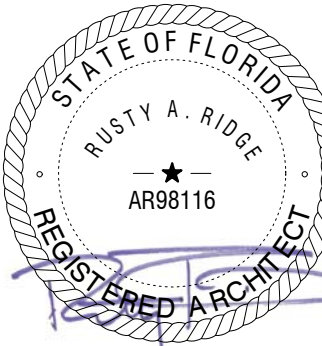
6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75063
TEL: 972.870.1288
WWW.IDSTUDIO4.COM

PROJECT NUMBER
DCH22007

PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



REY/03:04:18:27

Chef's

Issue Date: 02.15.2024

REVISION INFORMATION

04.04.2022

CITY COMMENTS

2 04.05.202

COORDINATION COMMENTS

Restaurant #: 21K003

CHEDDARS
SCRATCH KITCHEN
PROTO 18

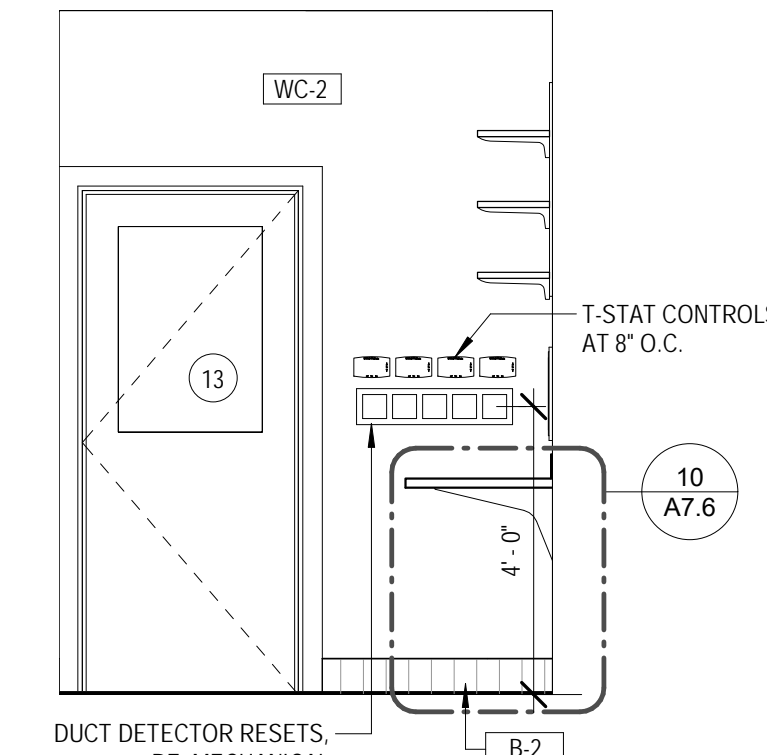
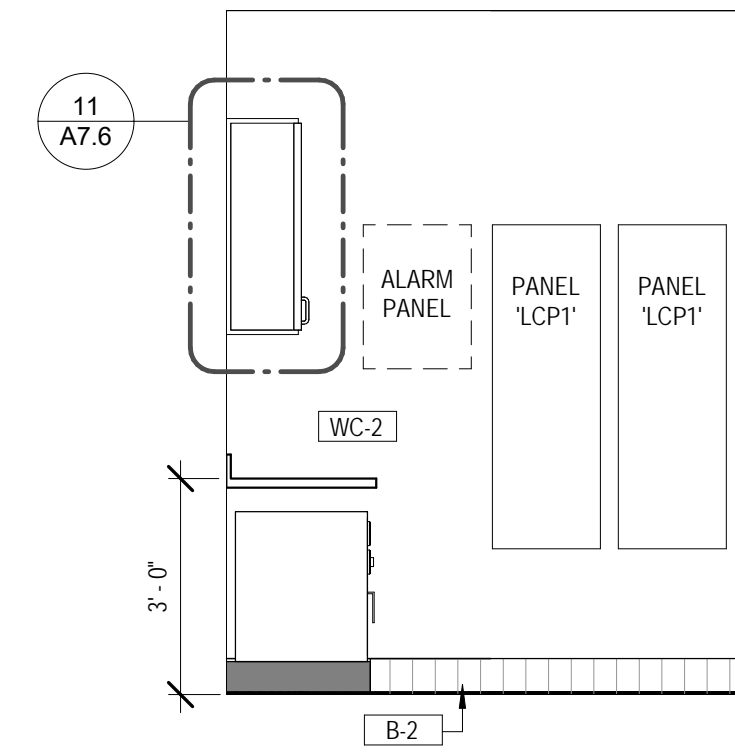
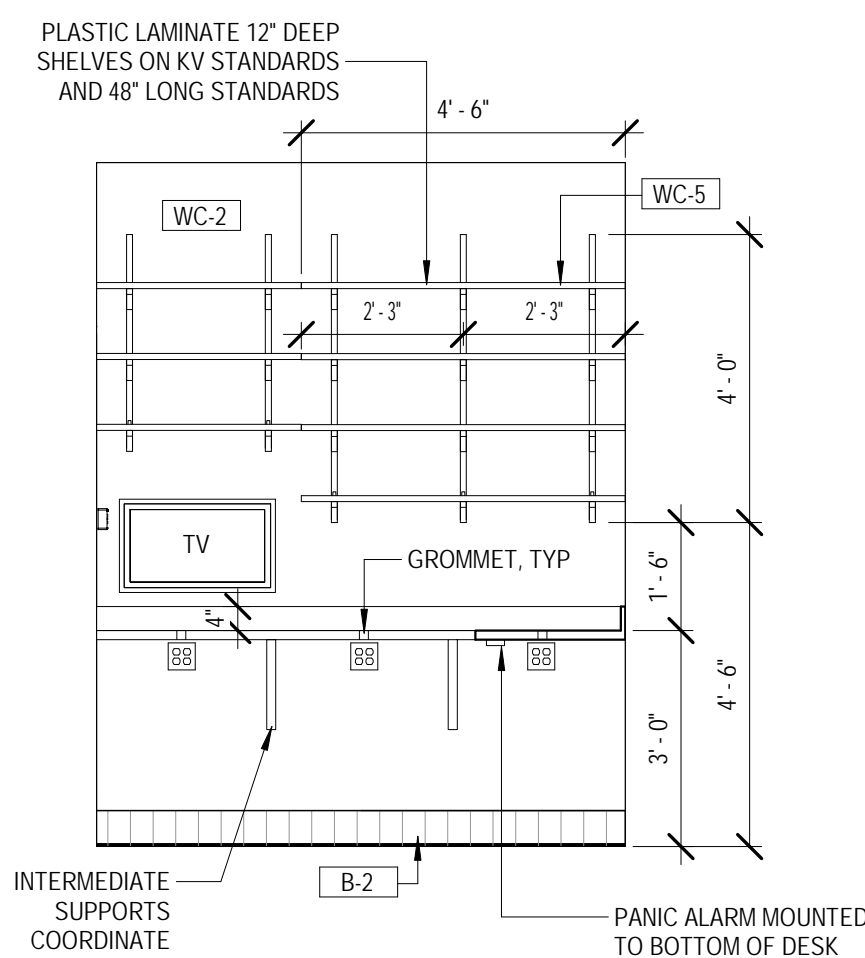
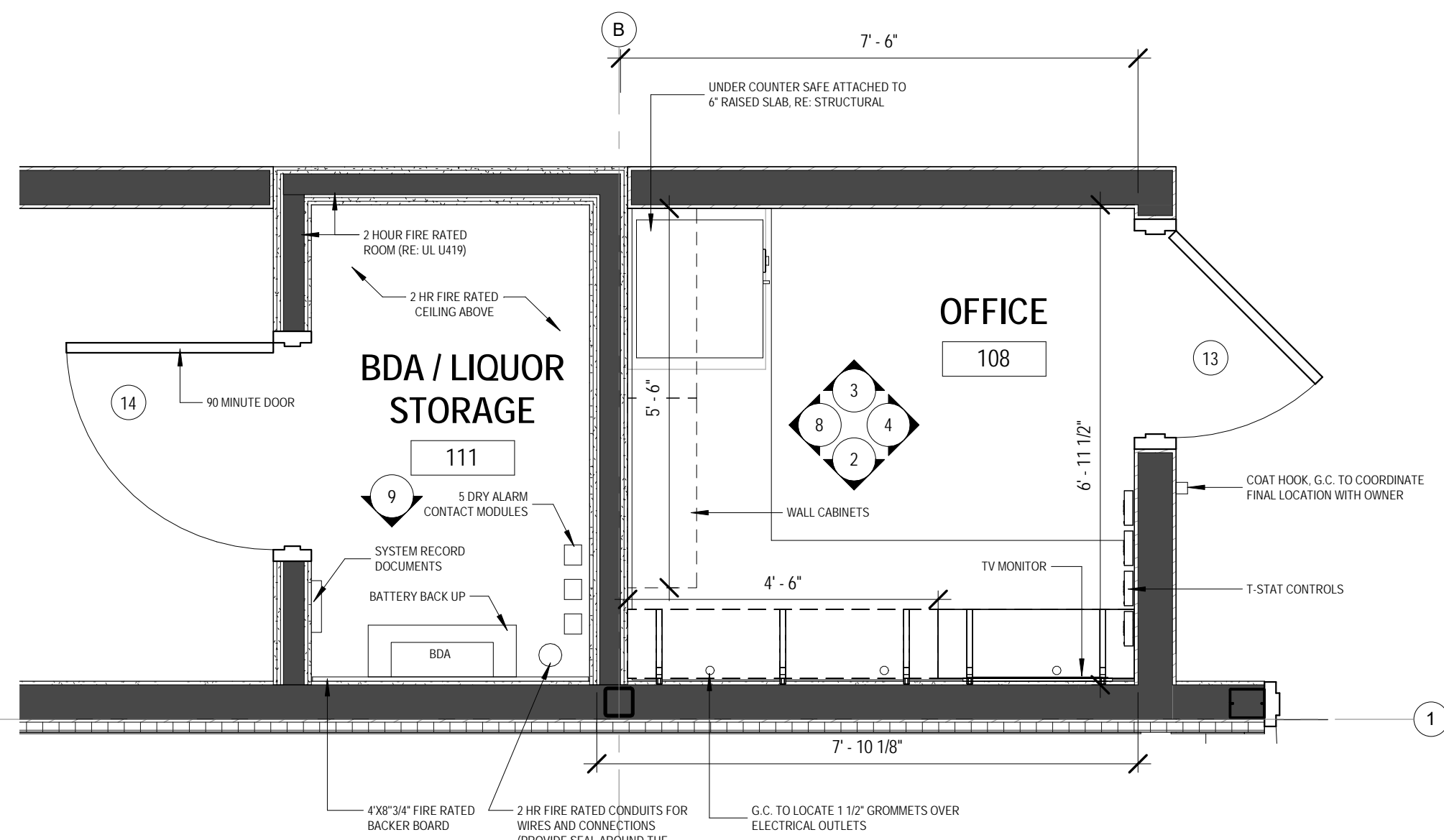
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, F

Drawi

ENLARGED RESTROOM PLAN AND ELEVATIONS

A7.5



FINISH SCHEDULE - INTERIOR

INTERIOR PAINT	
P-1	TAVERN TAUPE
P-2	IBIS WHITE
P-3	BLACK OF NIGHT
P-4	HALF CAFF
STAIN	
S-1	EBONY
S-2	CLEAR SEALER
S-3	FLAGSTONE
S-4	IBROCK SEALER
WALL COVERING	
WC-1	VINYL FABRIC
WC-2	FRP-WHITE
WC-3	FRP-BLACK
WC-4	WOOD LAMINATE
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WC-15	WOOD PANEL
GRANITE	
G-1	GRANITE-JUPARAMA ST. CECILIA
G-2	GRANITE-BLACK
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B-1	PORCELAIN TILE-MINERAL CHROME
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B-3	PORCELAIN TILE-RESIDE
CEILING	
C-1	ACOUSTICAL CEILING-BLACK
C-2	ACOUSTICAL CEILING-WHITE
C-3	NOT USED
C-4	V-GROOVE PLANK

idstudio⁴

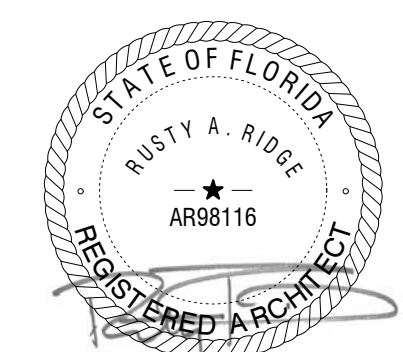
6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75063
TEL: 972.870.1288
WWW.IDSTUDIO4.COM

PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.

1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



REV 02: 04.18.2023

Cheedar's

SCRATCH KITCHEN

Issue Date:	02.15.2023
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REVISION INFORMATION

1	04.04.2023
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CITY COMMENTS

2	04.05.2023
---	------------

COORDINATION COMMENTS

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

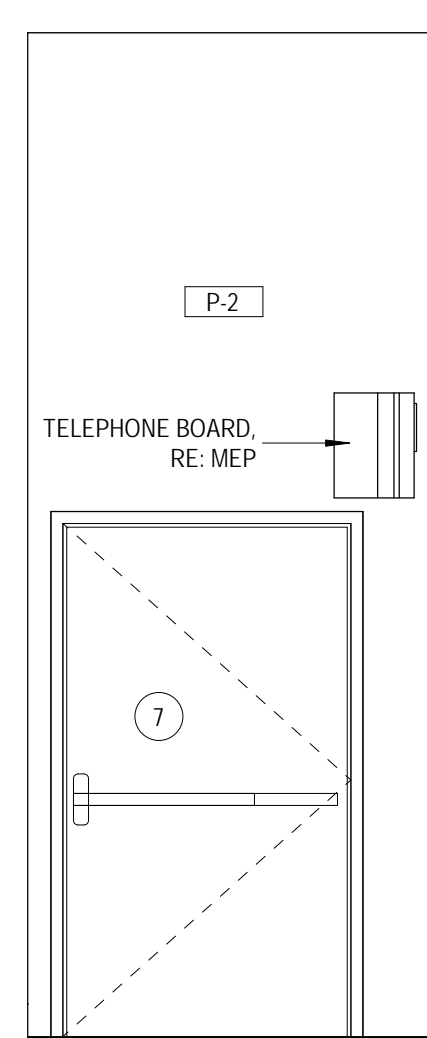
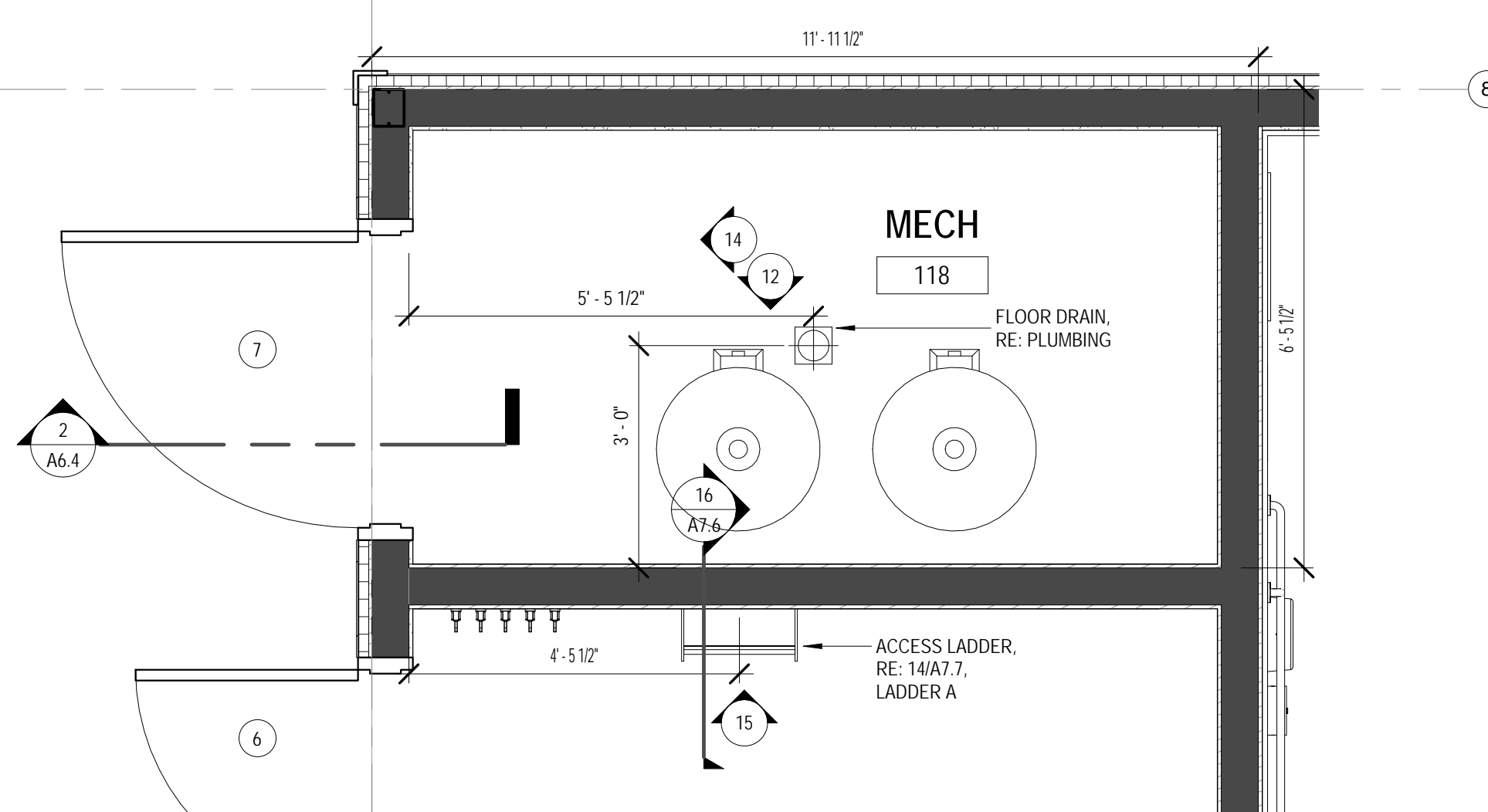
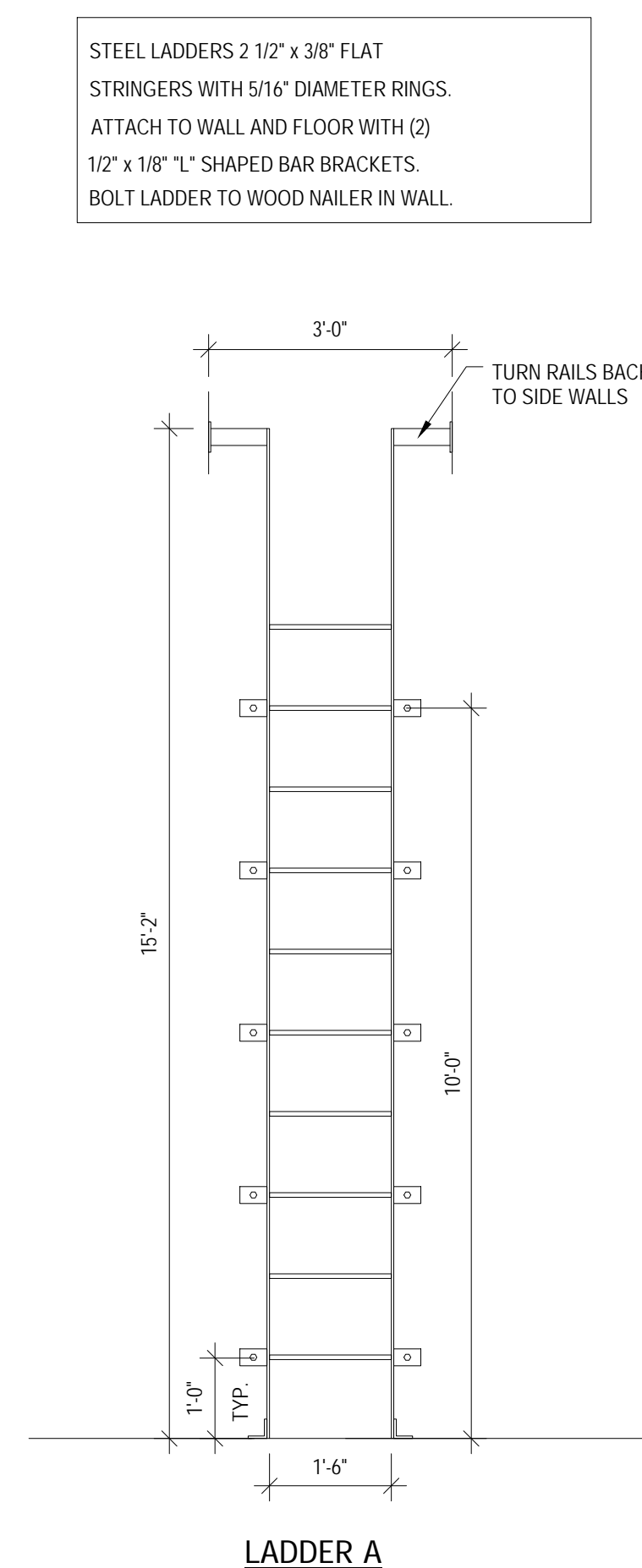
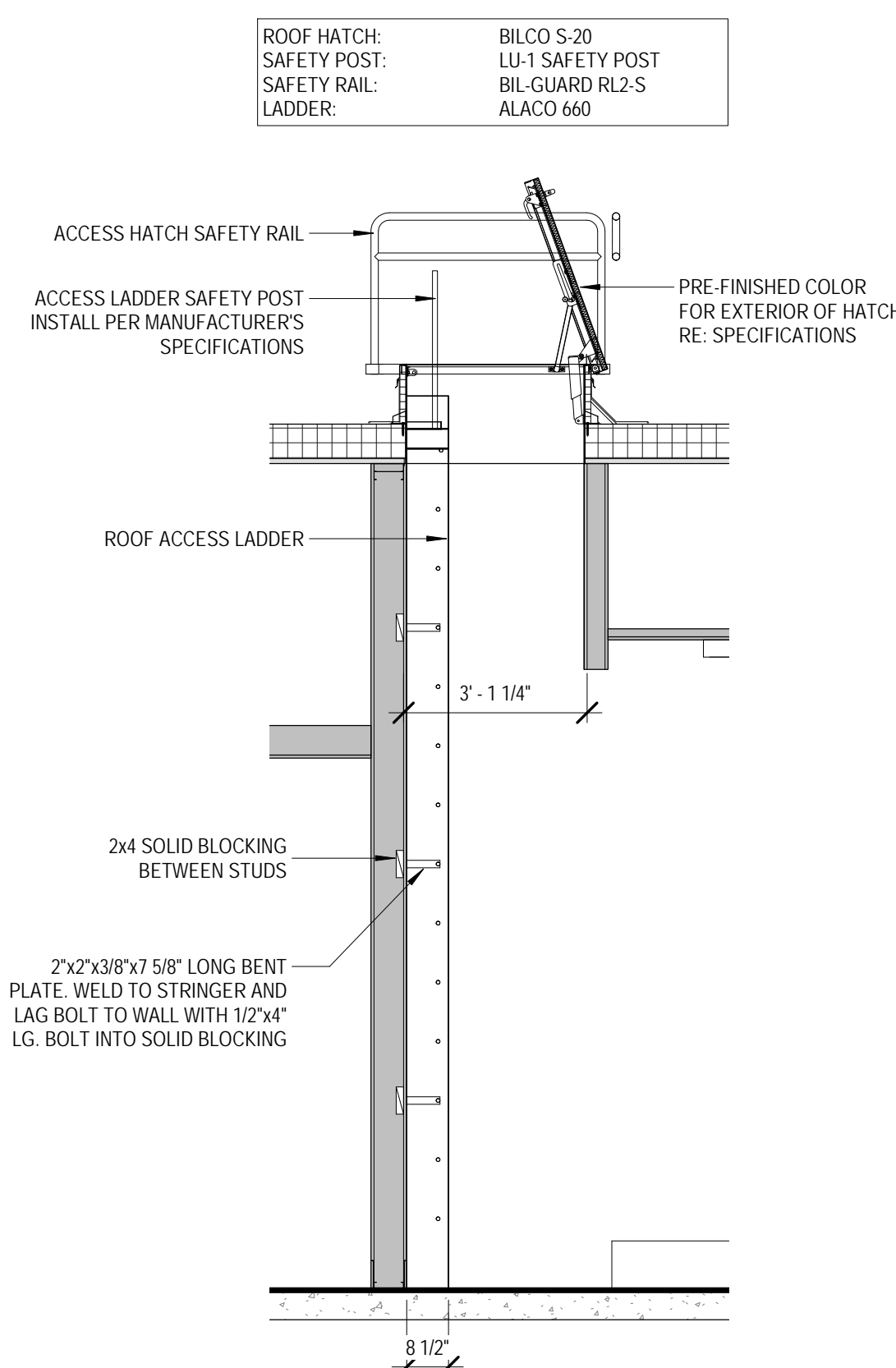
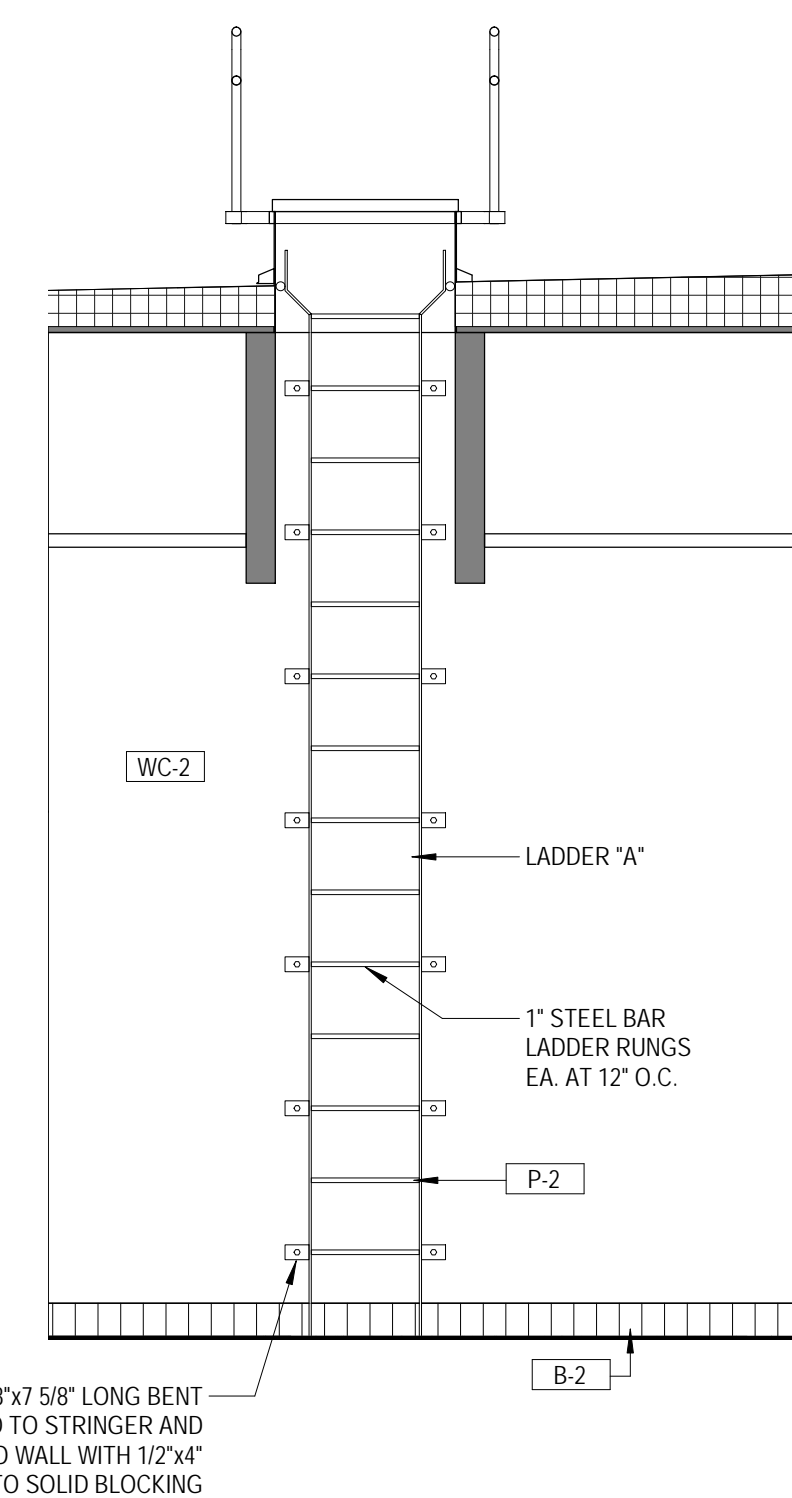
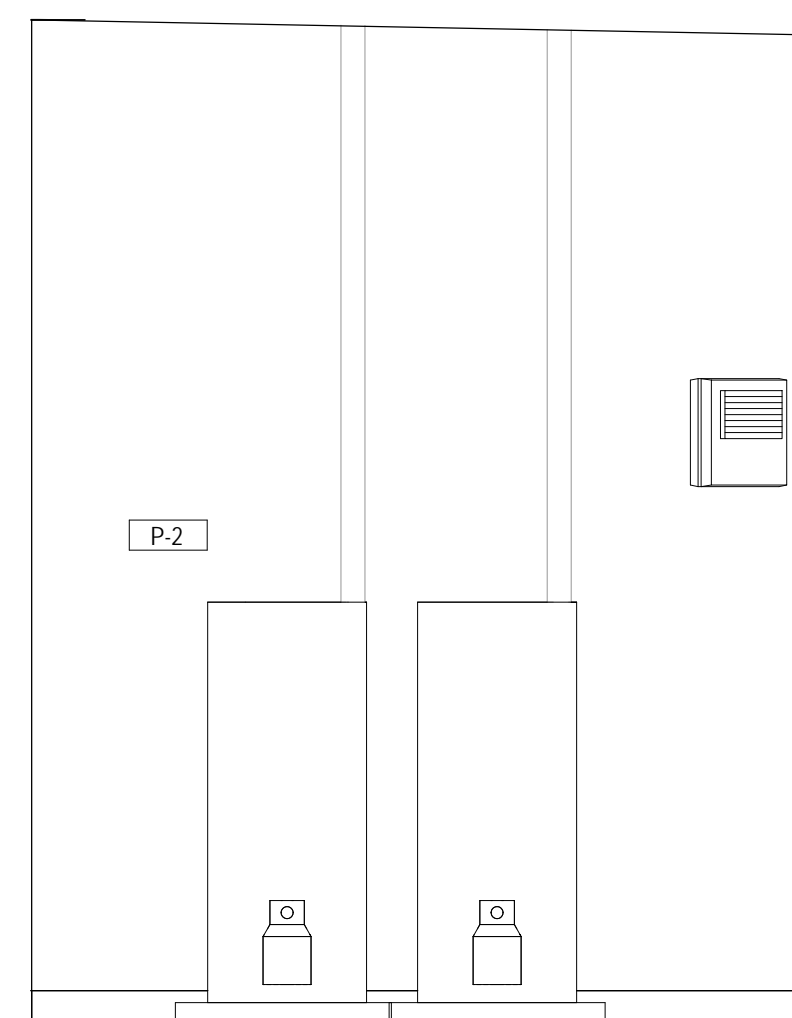
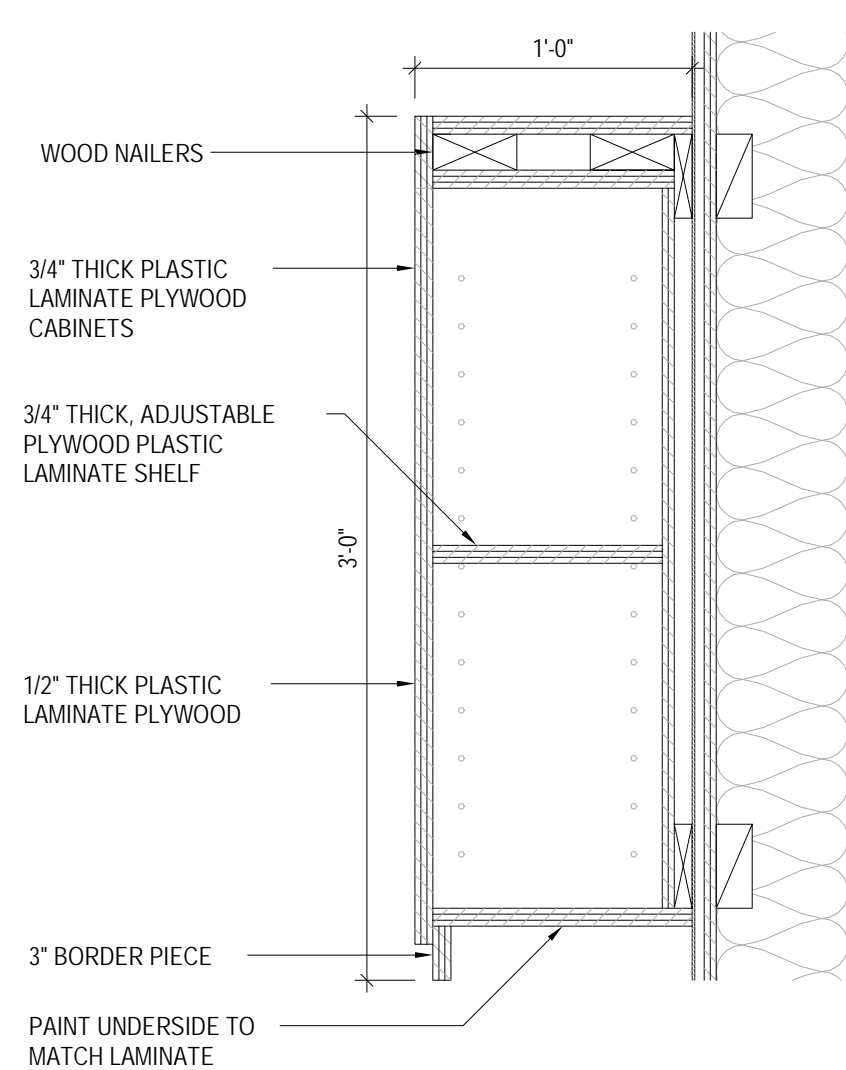
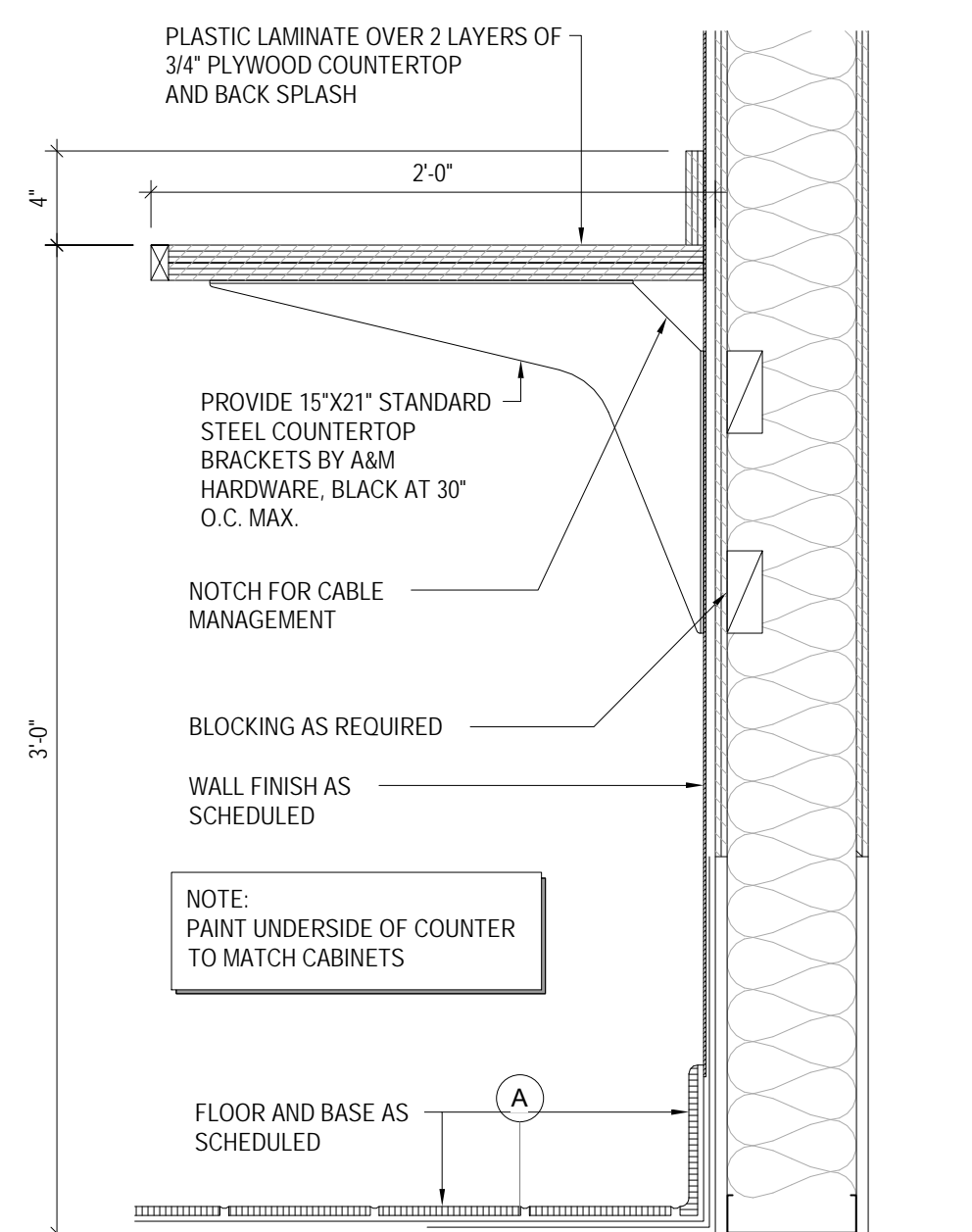
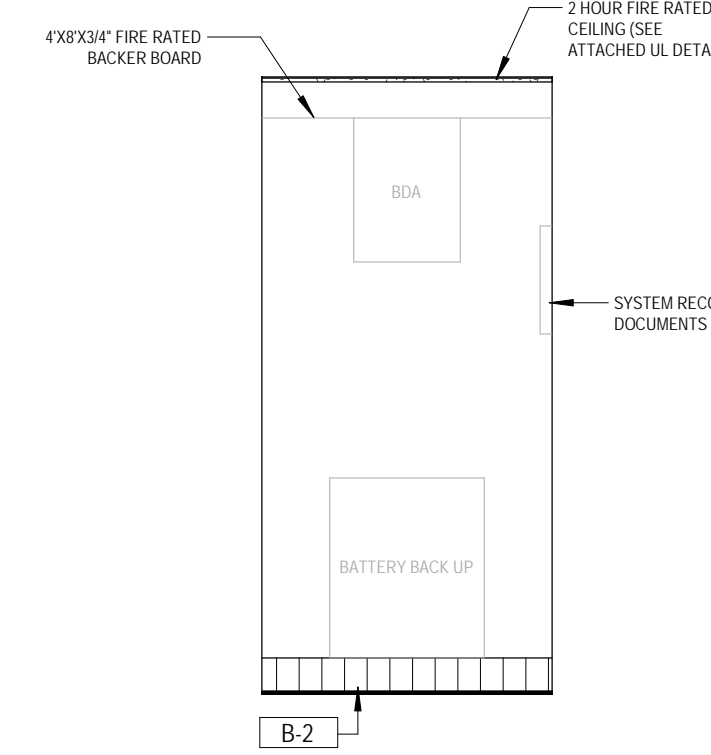
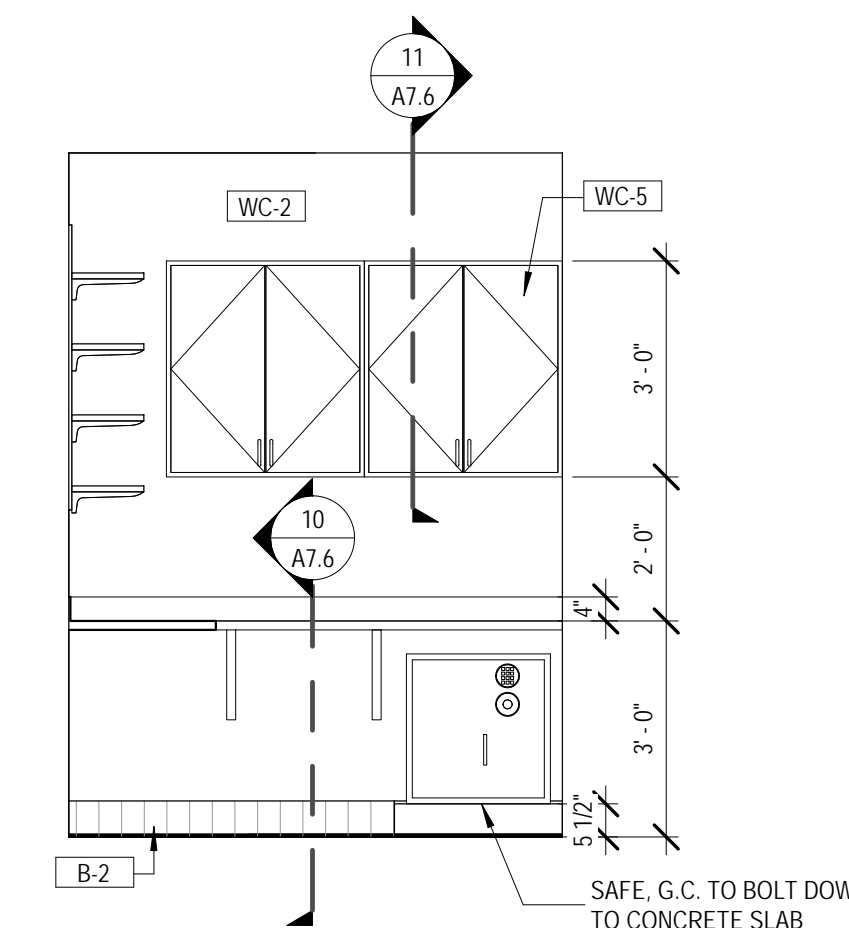
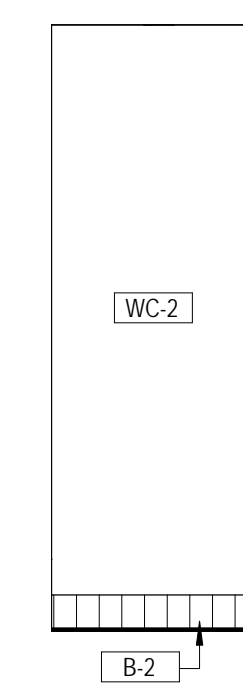
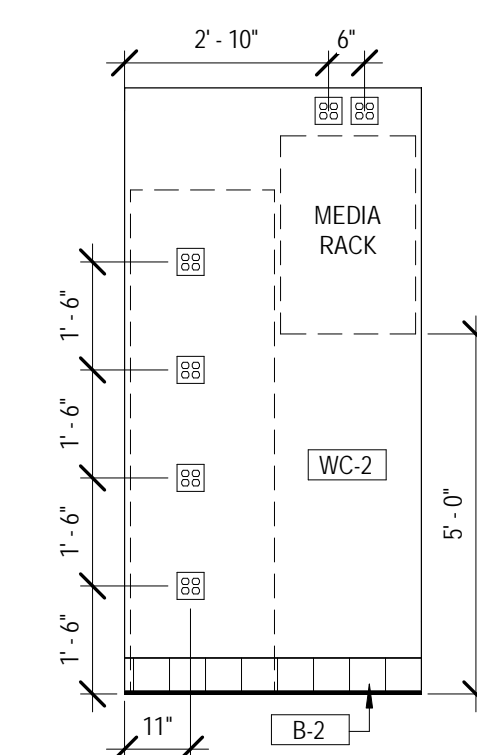
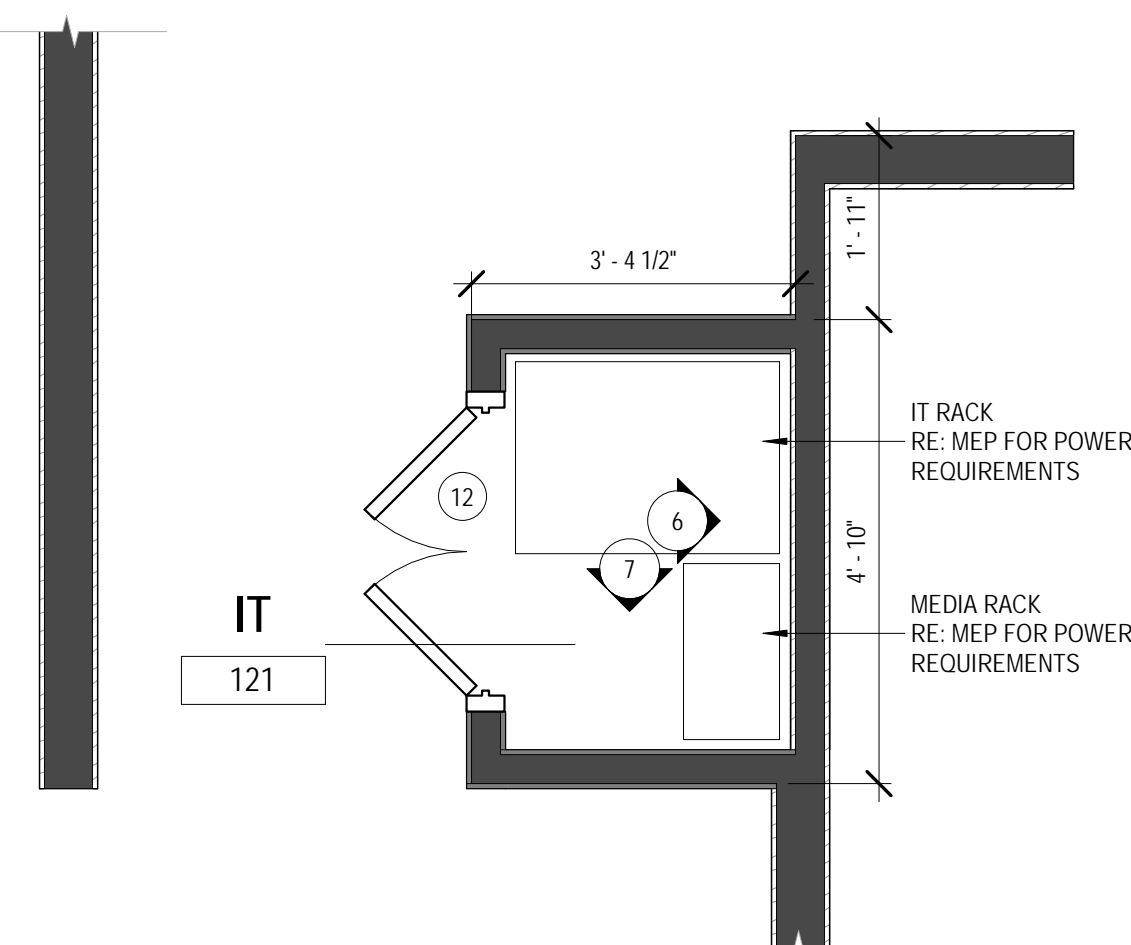
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:

ENLARGED
OFFICE / IT / MECH
PLAN

A7.6



ELEVATION AT LADDER (MECH)	15
$3/8" = 1'-0"$	

SECTION AT LADDER

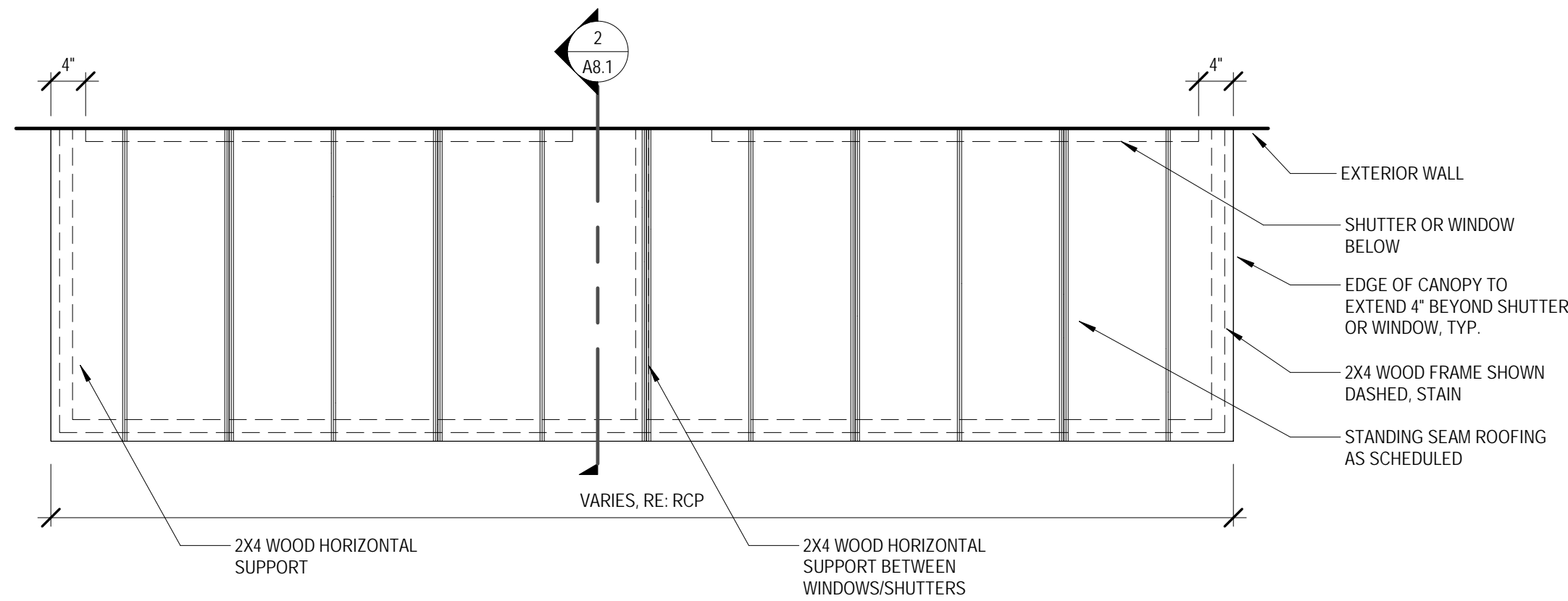
DETAIL AT LADDER $1\frac{1}{2}'' = 1'-0''$	17
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DETAIL AT DISPLAY SHELF 6" = 1'-0"	5
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DETAIL AT BACK BAR COUNTER	2
1 1/2" = 1'-0"	

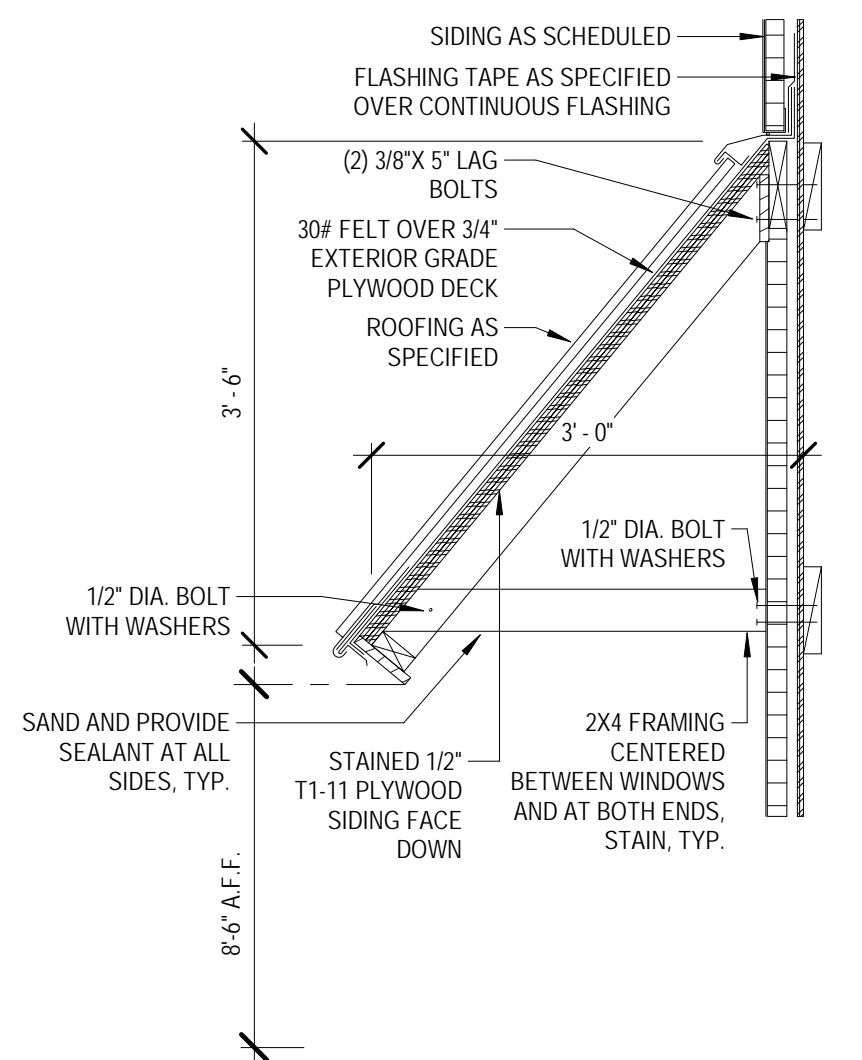
DETAIL AT BACK BAR COUNTER	3
1 1/2" = 1'-0"	

DETAIL AT BACK BAR COUNTER 1 1/2" = 1'-0"	4
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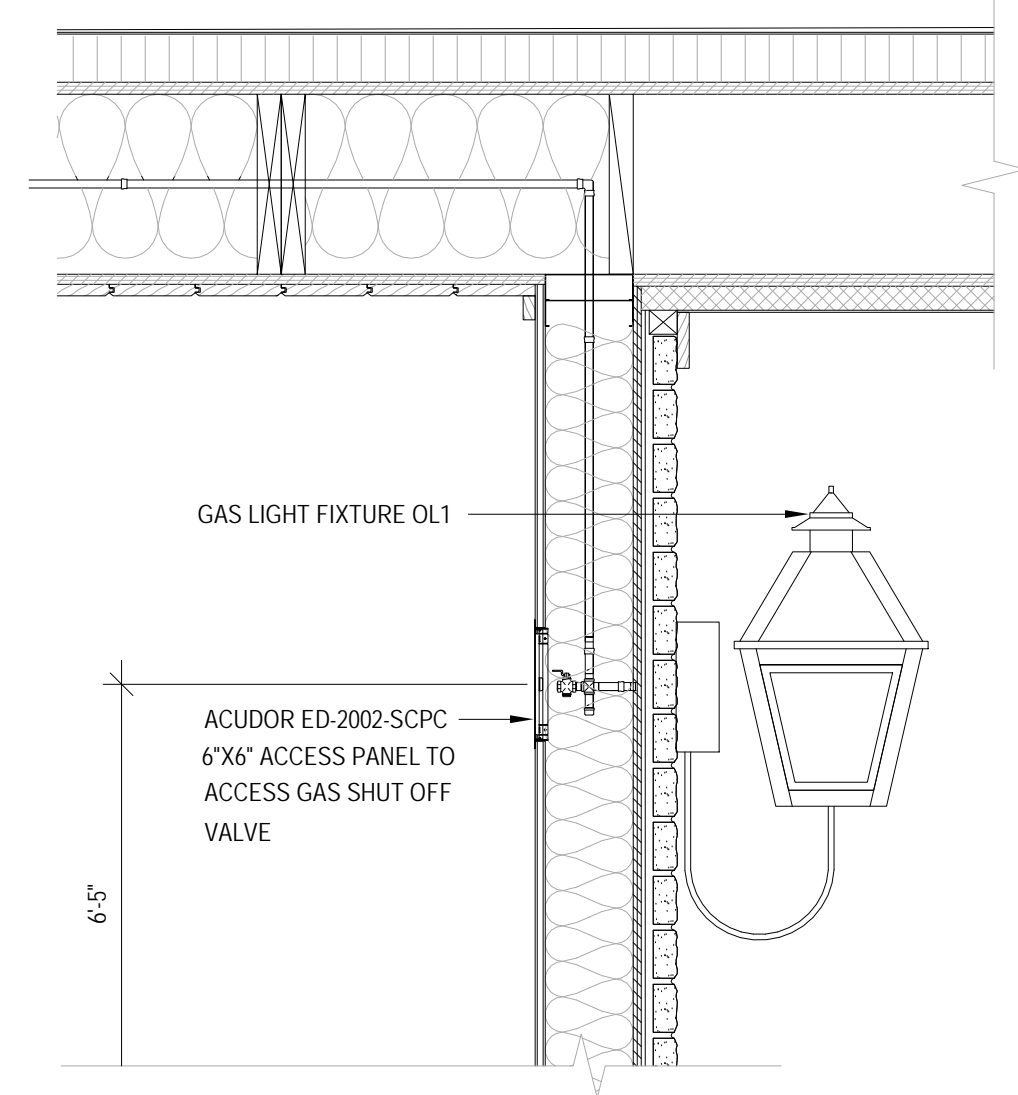
DETAIL AT AWNING
3/4" = 1'-0"

1



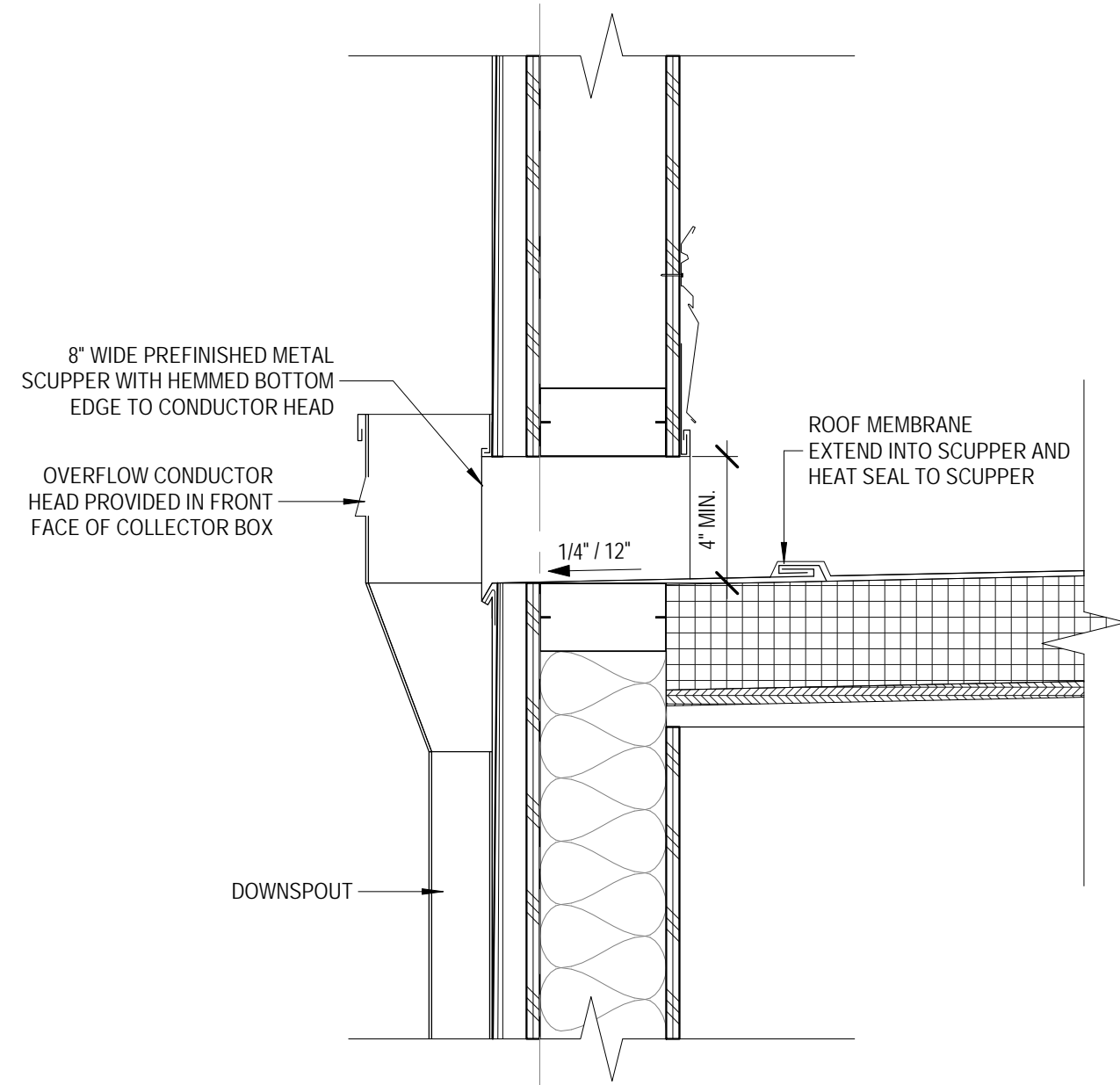
DETAIL AT AWNING
3/4" = 1'-0"

2



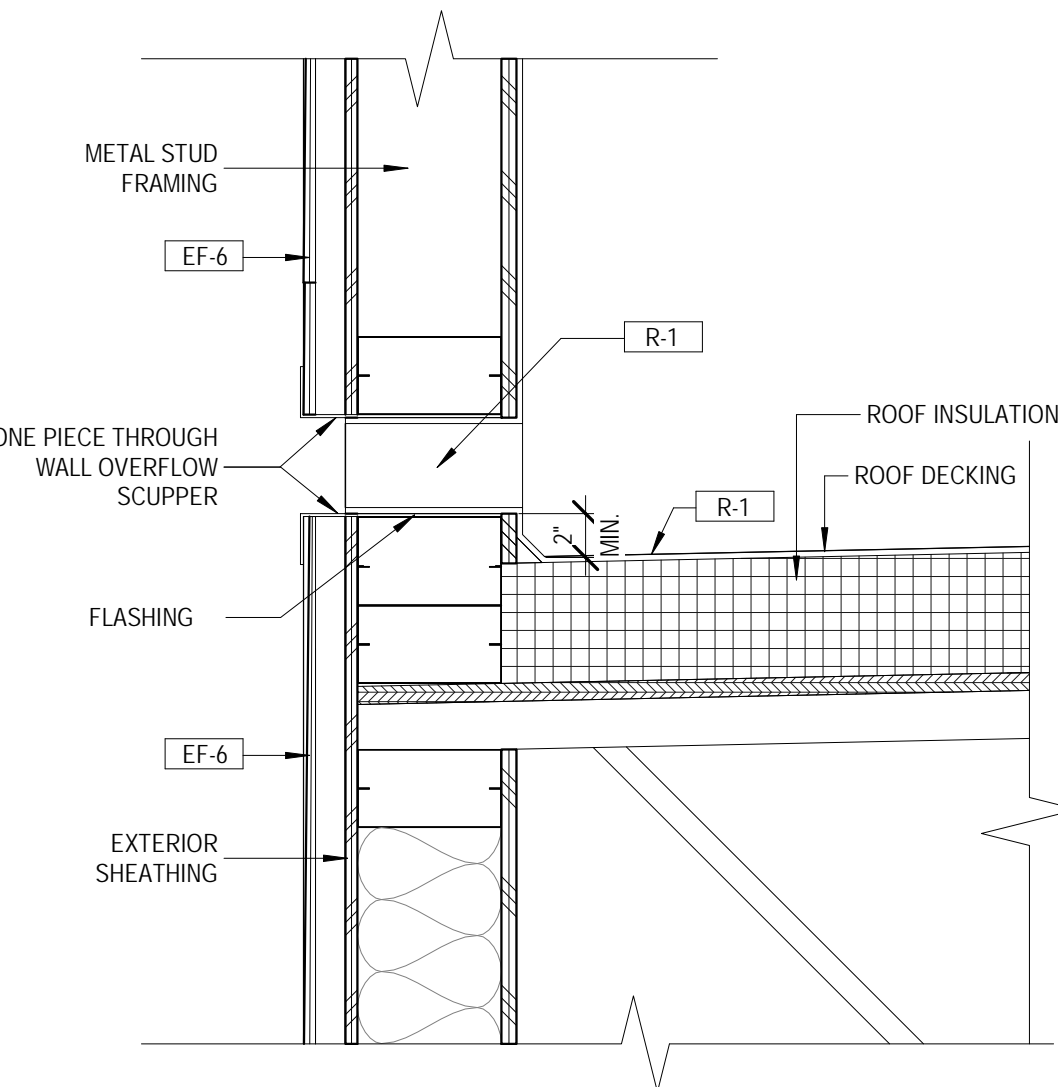
SECTION AT ACCESS PANEL
1" = 1'-0"

4



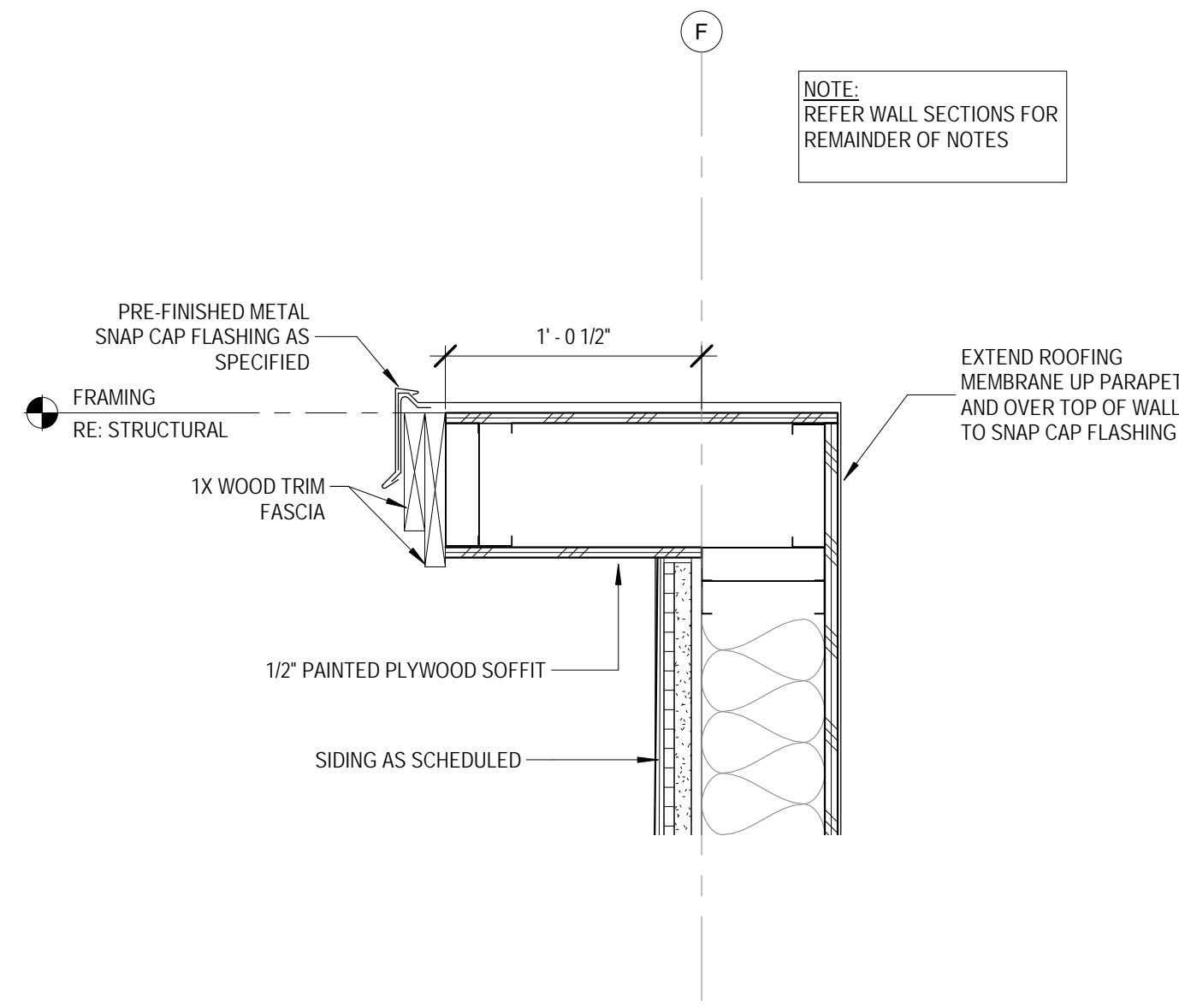
SCUPPER DETAIL
1 1/2" = 1'-0"

5



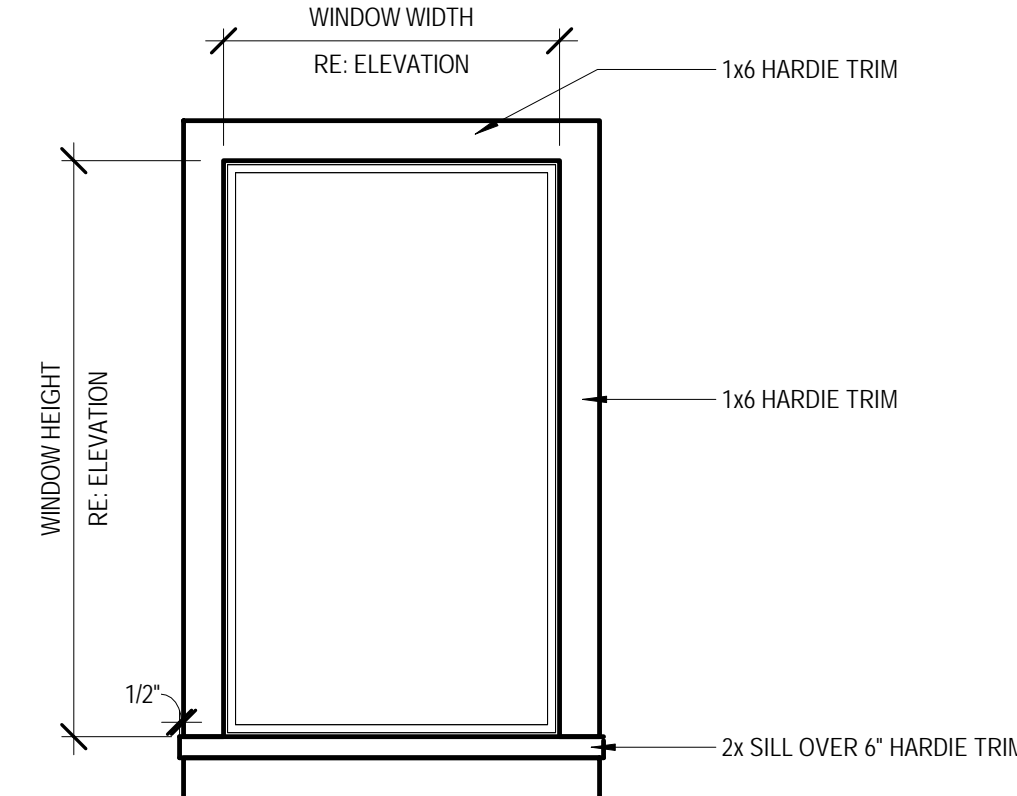
THROUGH WALL OVERFLOW SCUPPER DETAIL
1 1/2" = 1'-0"

7



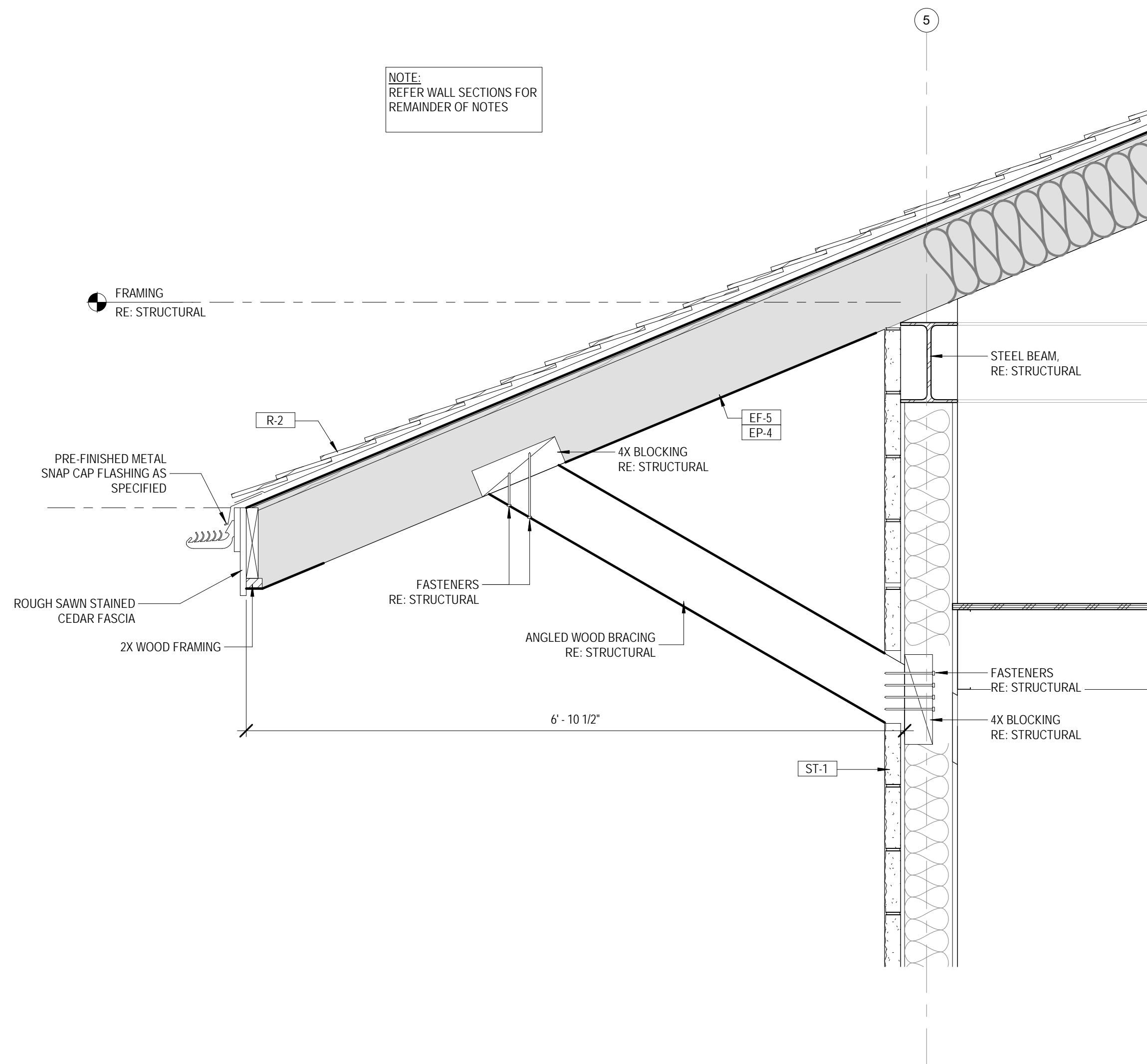
WALL CAP DETAIL
1 1/2" = 1'-0"

8



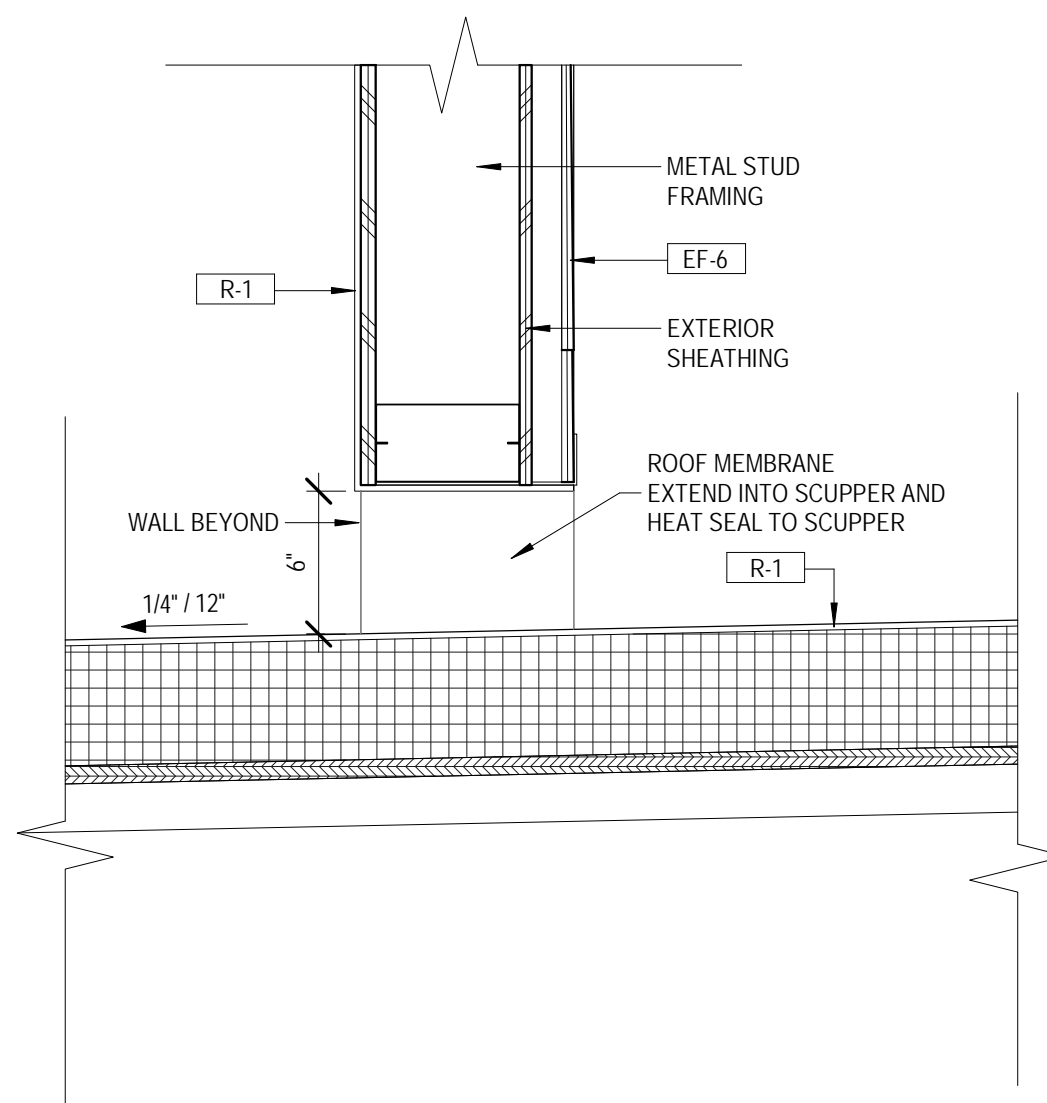
TYPICAL WINDOW TRIM DETAIL
1/2" = 1'-0"

9



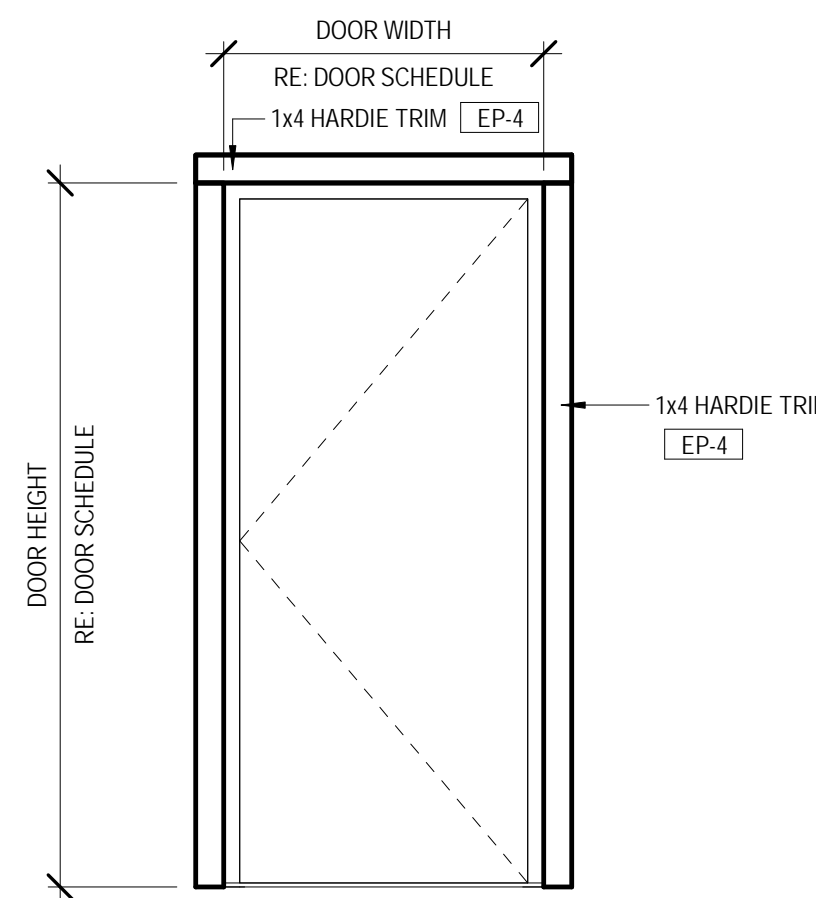
DETAIL AT ENTRY TOWER BRACING
1" = 1'-0"

10



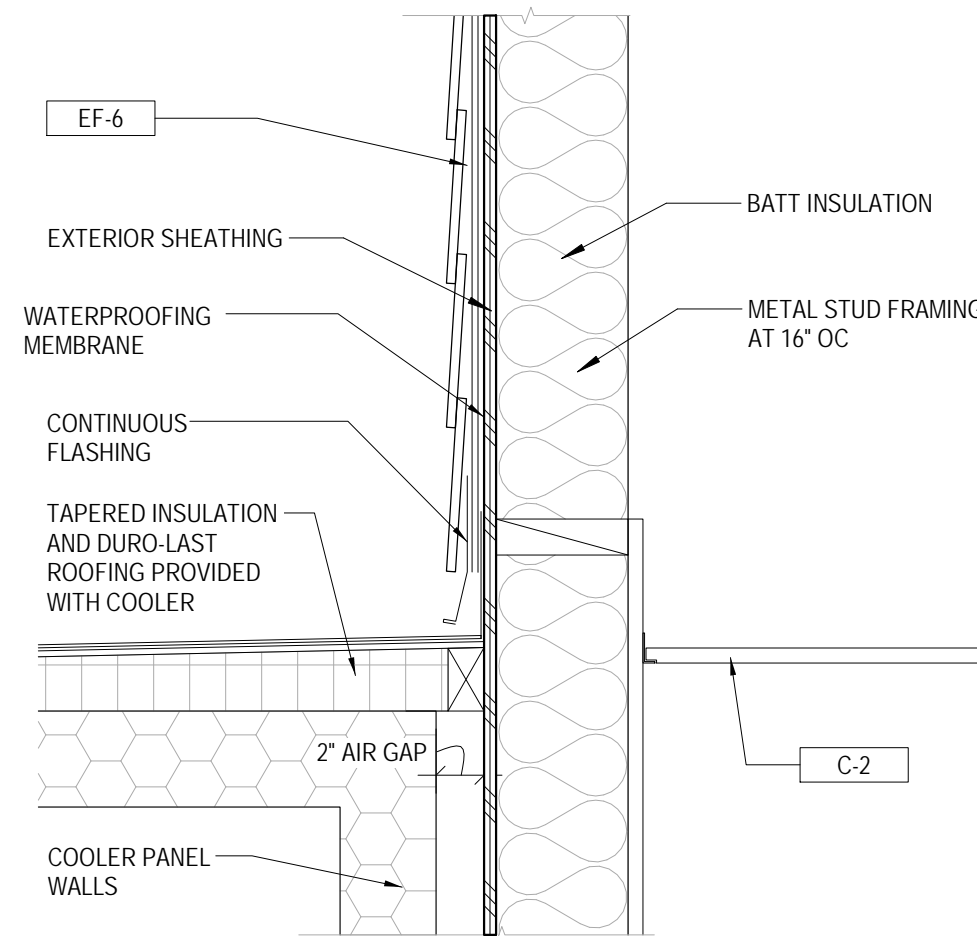
THROUGH WALL SCUPPER DETAIL
1 1/2" = 1'-0"

11



TYPICAL DOOR TRIM DETAIL
1/2" = 1'-0"

12



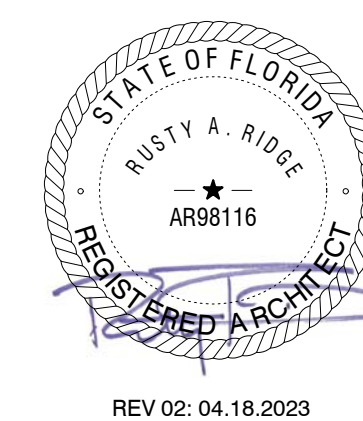
COOLER CONNECTION TO BUILDING DETAIL
1 1/2" = 1'-0"

13

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6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75063
TEL: 972.870.1288
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PROJECT NUMBER
DCH22007

CLIENT:
DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Cheddar's
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1 04.04.2023

CITY COMMENTS

2 04.05.2023

COORDINATION COMMENTS

Restaurant #: 21K0037

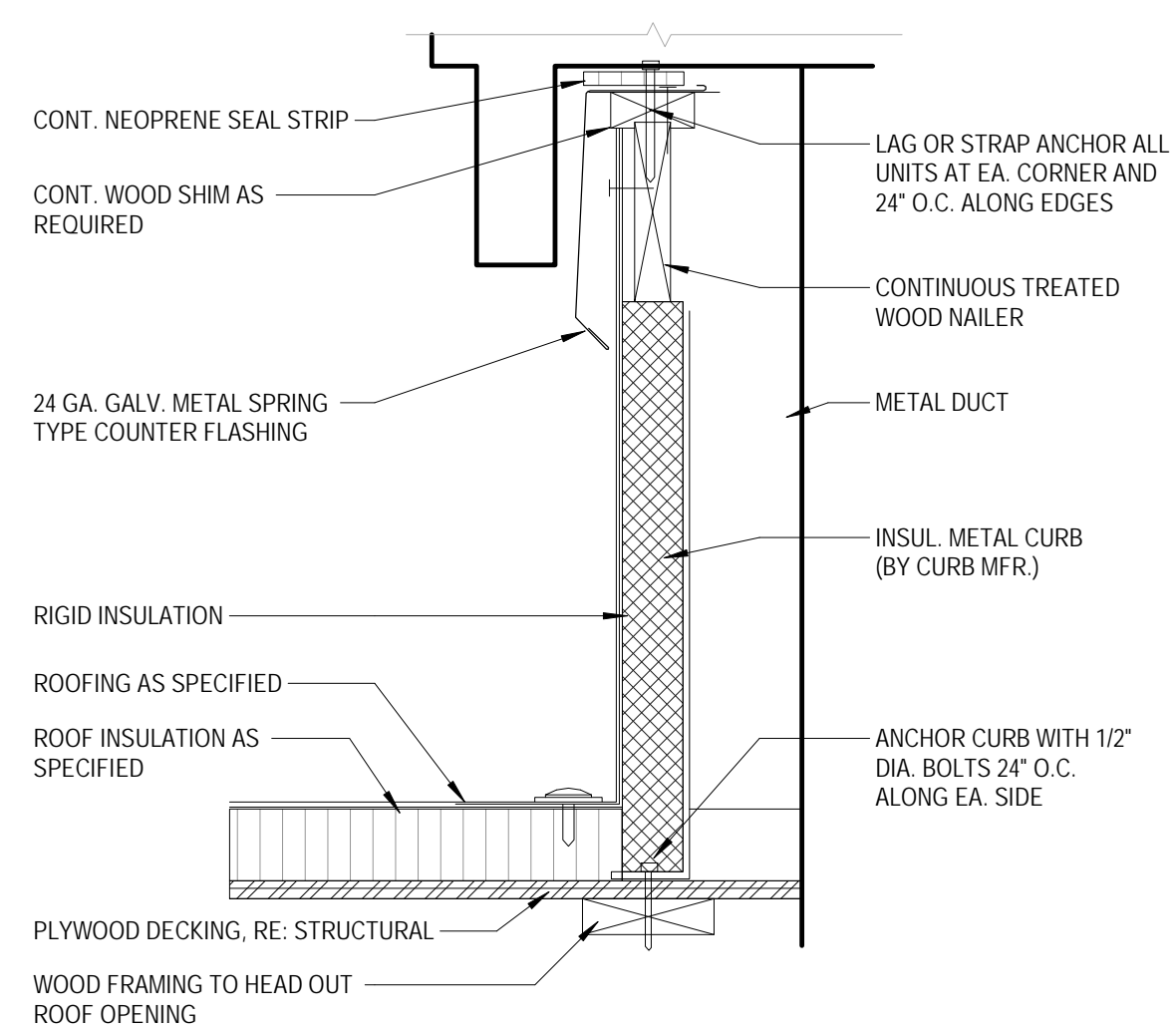
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

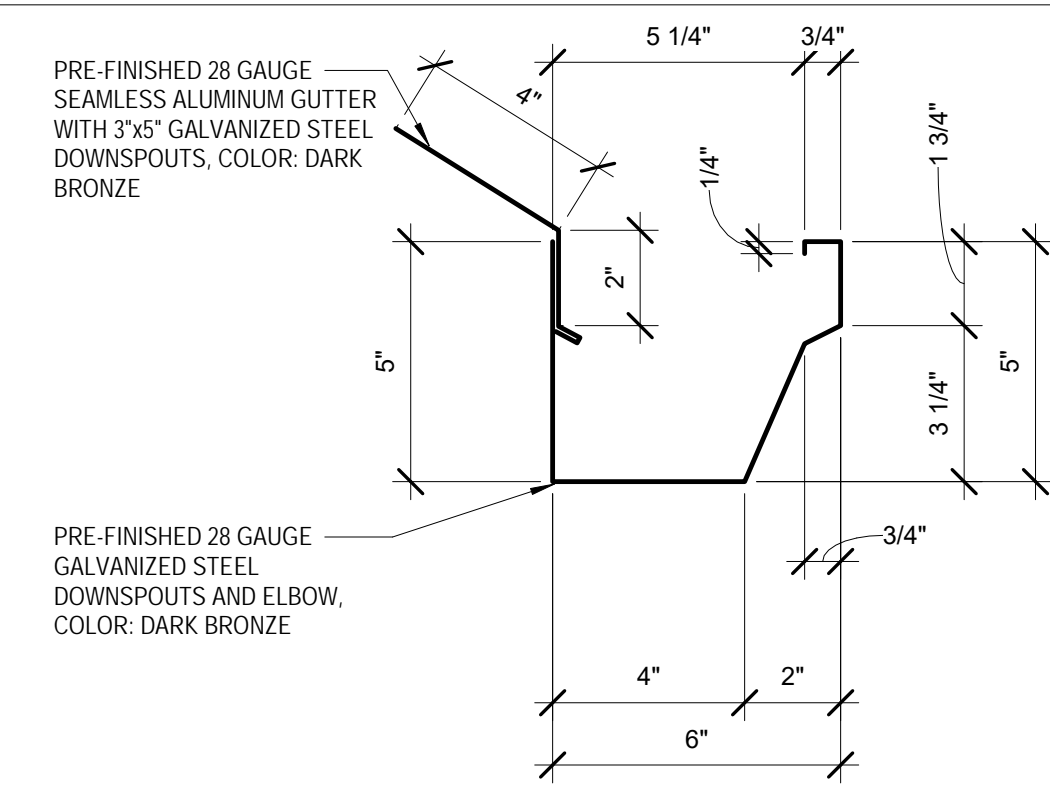
RIVERVIEW, FL

Drawing:
EXTERIOR
DETAILS

A8.1

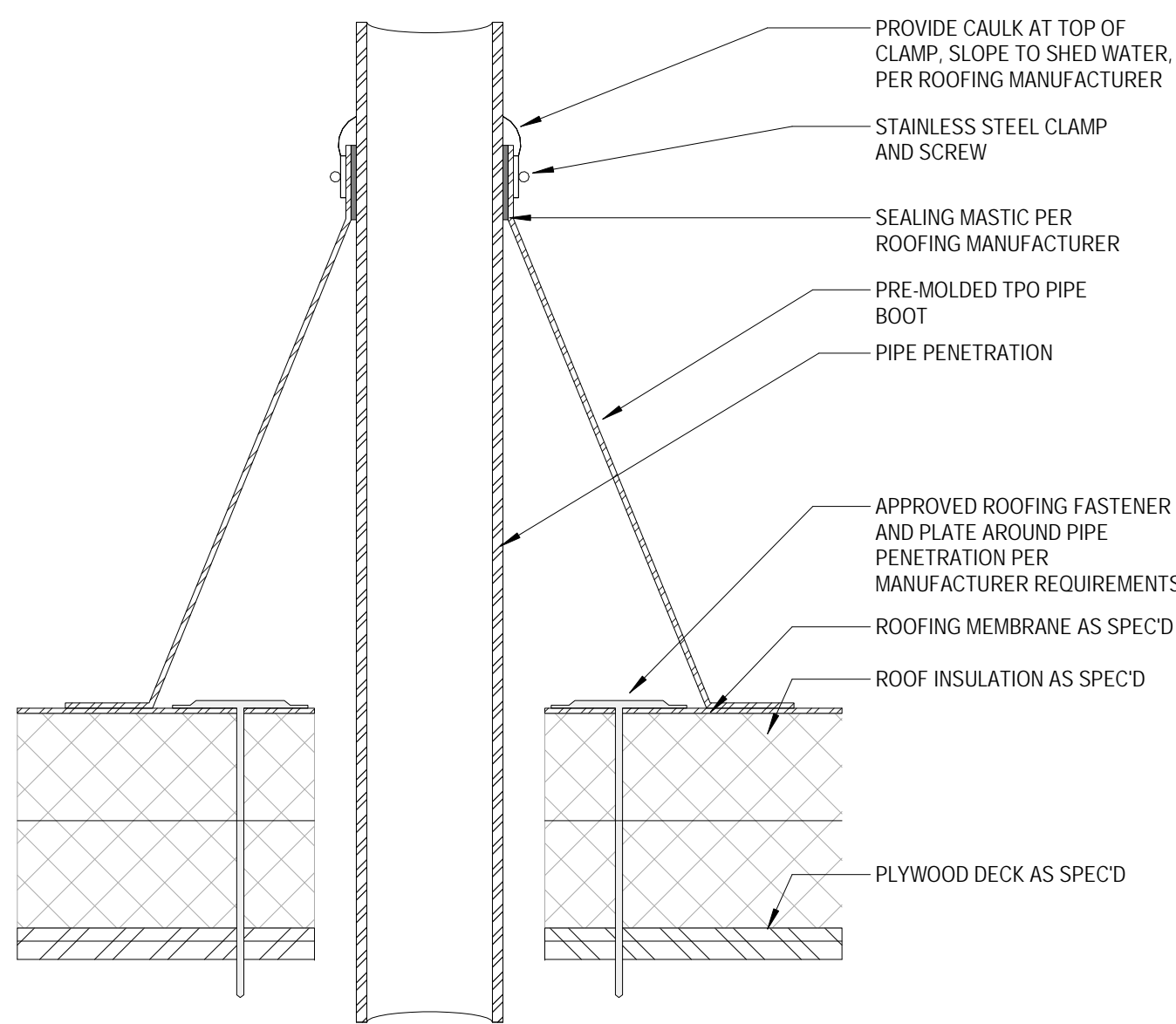


DETAIL AT RTU CURB
1 1/2" = 1'-0"

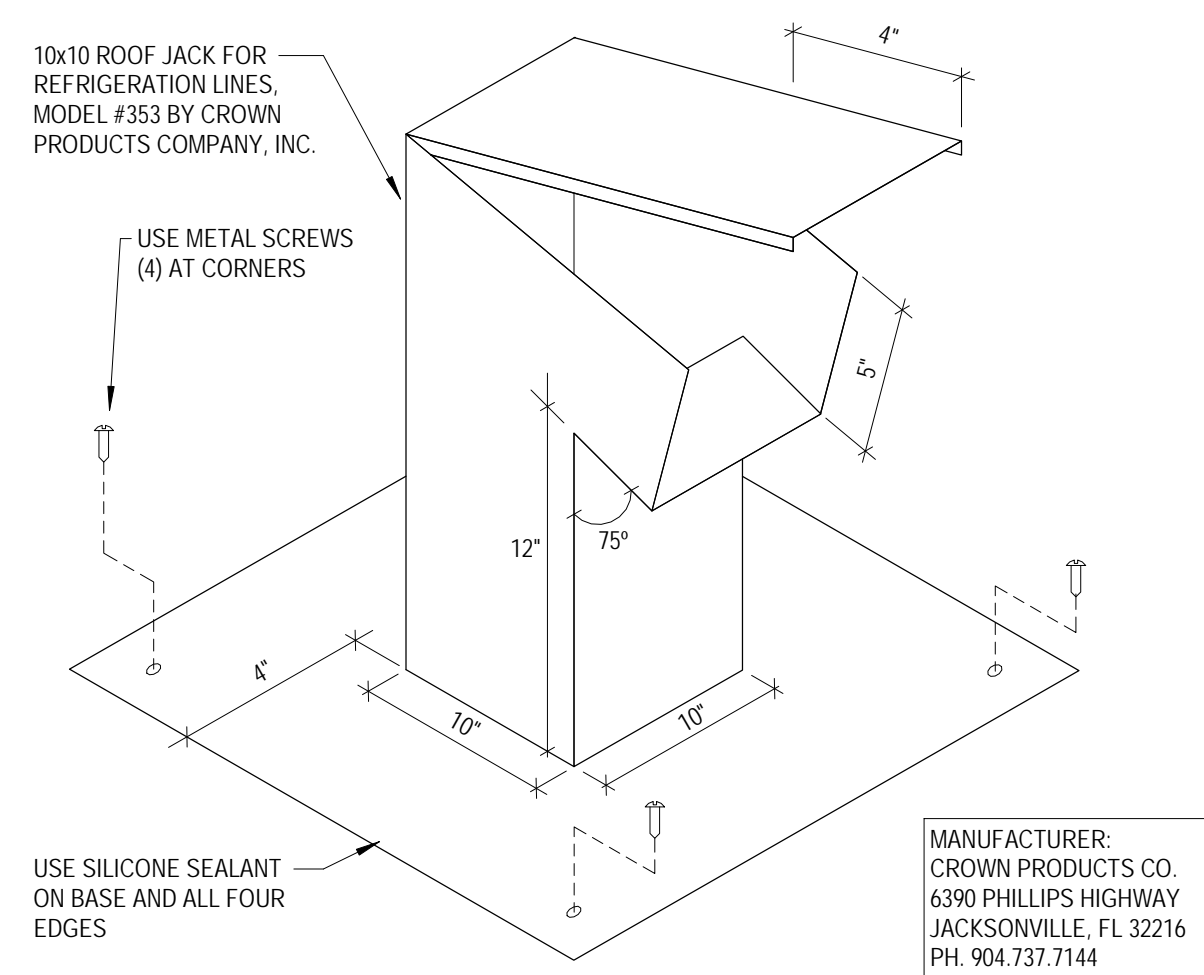


1. PRE-FINISHED 28 GAUGE SEAMLESS GALVANIZED ALUMINUM RAIN GUTTERS, SUPPORT GUTTERS WITH STEEL HIDDEN GUTTER HANGERS.
2. SEAMLESS GUTTERS TO BE IN MAXIMA SHAP "I". COLOR: DARK BROWN.
3. GALVANIZED STEEL PRE-FINISHED SMOOTH CHOW DOWNSPOUTS AND ELBOWS ARE TO BE 3x5" IN PRE-FABRICATED LENGTH OF AT LEAST FEET 10. COLOR: DARK BROWN. GALVANIZED STEEL DOWNSPOUTS AND ELBOWS WILL NOT BE ALLOWED.
4. USE POP-UP REVERSIBLE JOINTS, GUTTER HANGERS AND DOWNSPOUT SECTION.
5. GUTTER HANGERS TO BE SECURED WITH #9 OR #10 GALVANIZED WOOD SCREWS WITH NEOPRENE-COATED WASHERS.
6. DOWNSPOUT STRAPS FASTENED TO STONE OR BRICK MUD BE SECURED WITH 1.25" TAPCON FASTENERS.
7. GUTTERS ARE TO BE PLACED BEHIND METAL Drip EDGE ROOF FLASHING.
8. HANGERS ARE TO BE PLACED NO MORE THAN 30" APART.
9. DOWNSPOUT JUNCTIONS ARE TO BE FASTENED WITH AT LEAST ONE RIVET.
10. ALL METERS AND END CAPS ARE TO BE SEALED WITH SELF-LEVELING SEALANT.

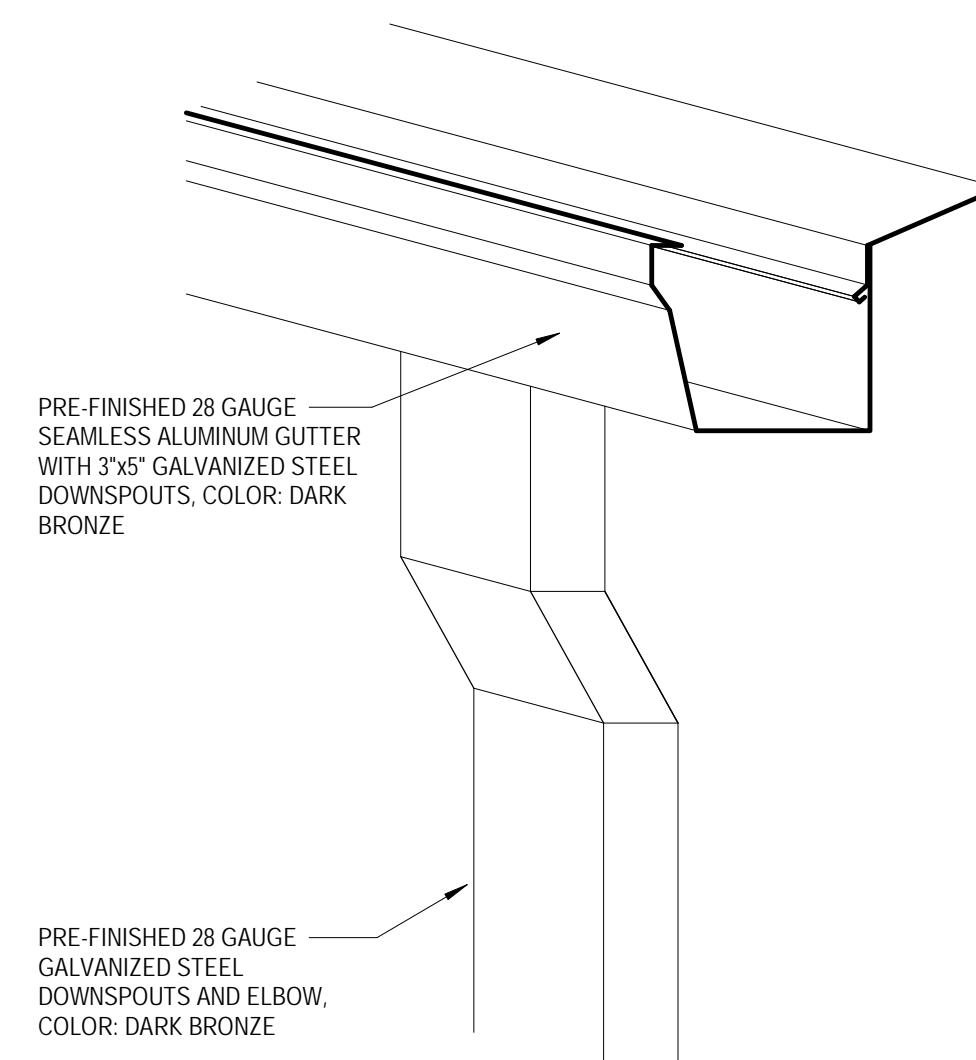
DETAIL AT TYPICAL GUTTER AND DRIP EDGE DETAIL



DETAIL AT PIPE PENETRATION

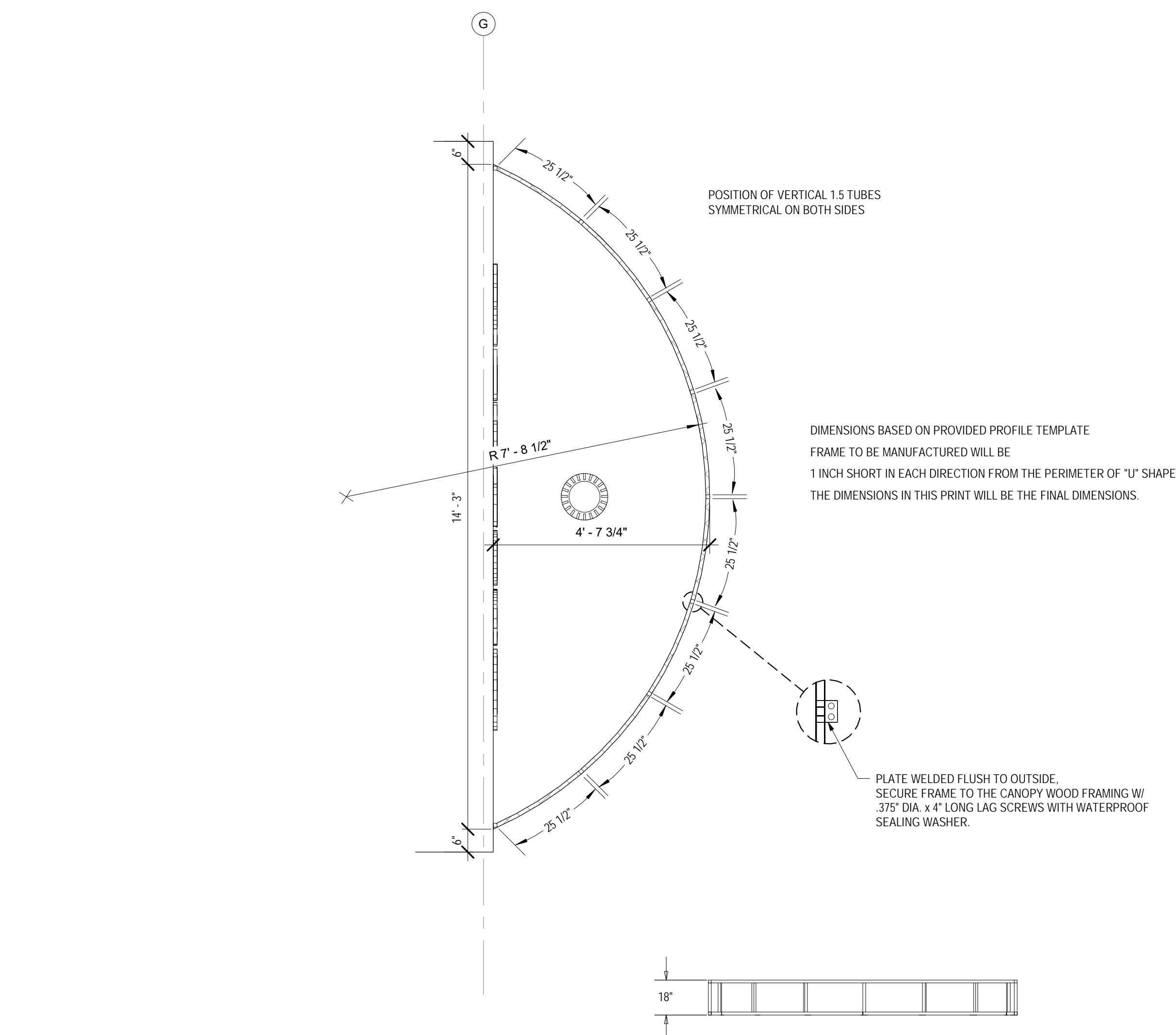


DETAIL AT ROOF JACK
3" = 1'-0"



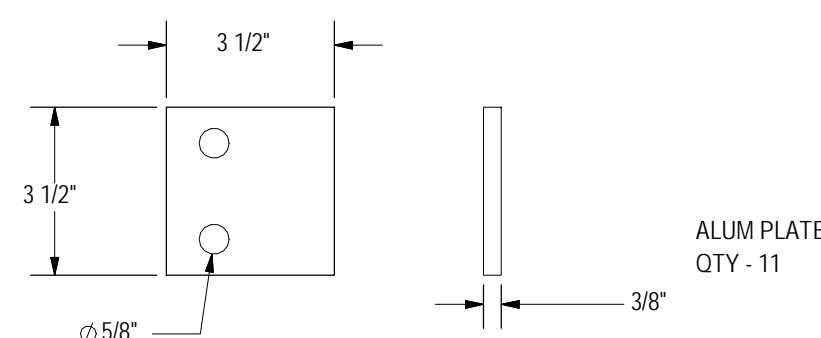
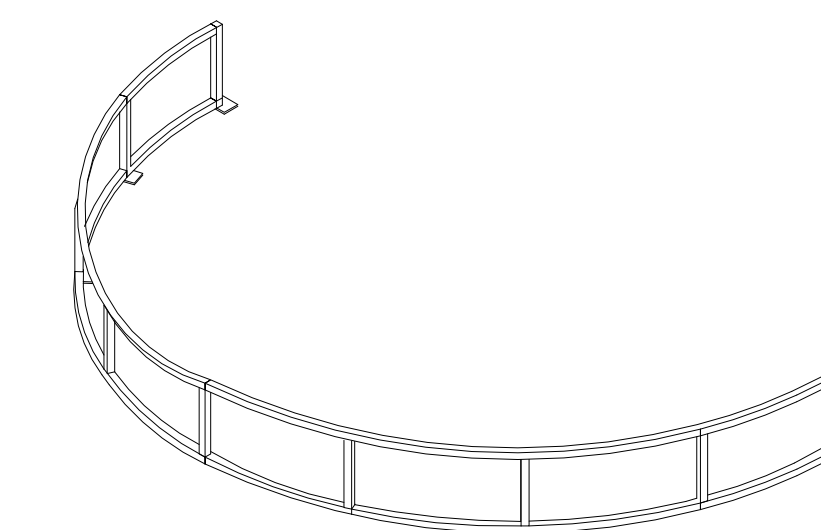
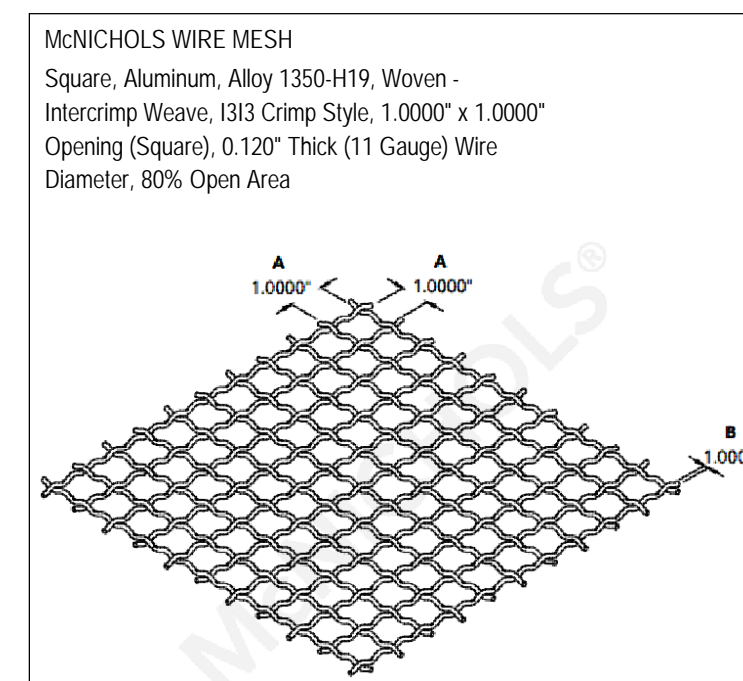
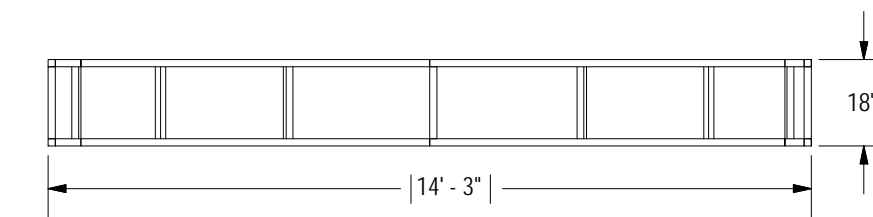
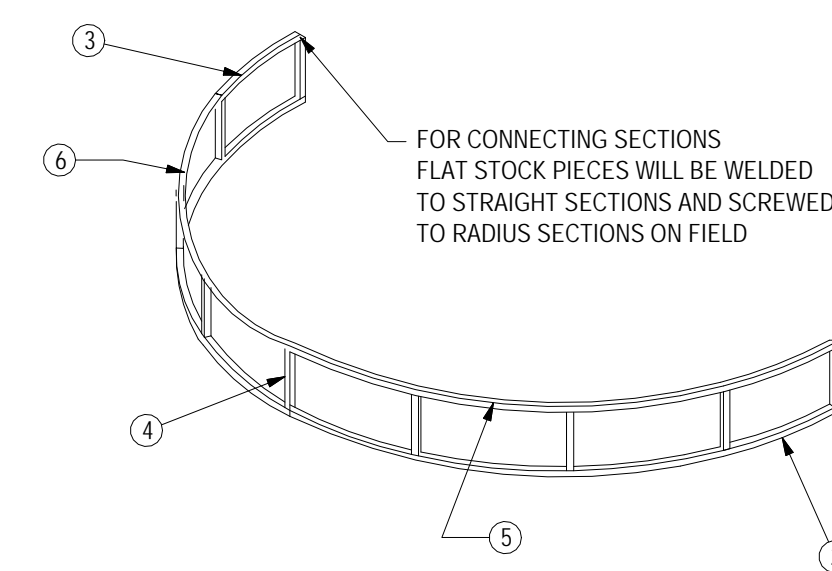
NOTE:
ALL DOWNSPOUTS AND
ELBOWS TO BE SMOOTH.
NO FLUTED DOWNSPOUTS
OR ELBOWS WILL BE
ALLOWED

DETAIL AT TYPICAL DOWNSPOUT

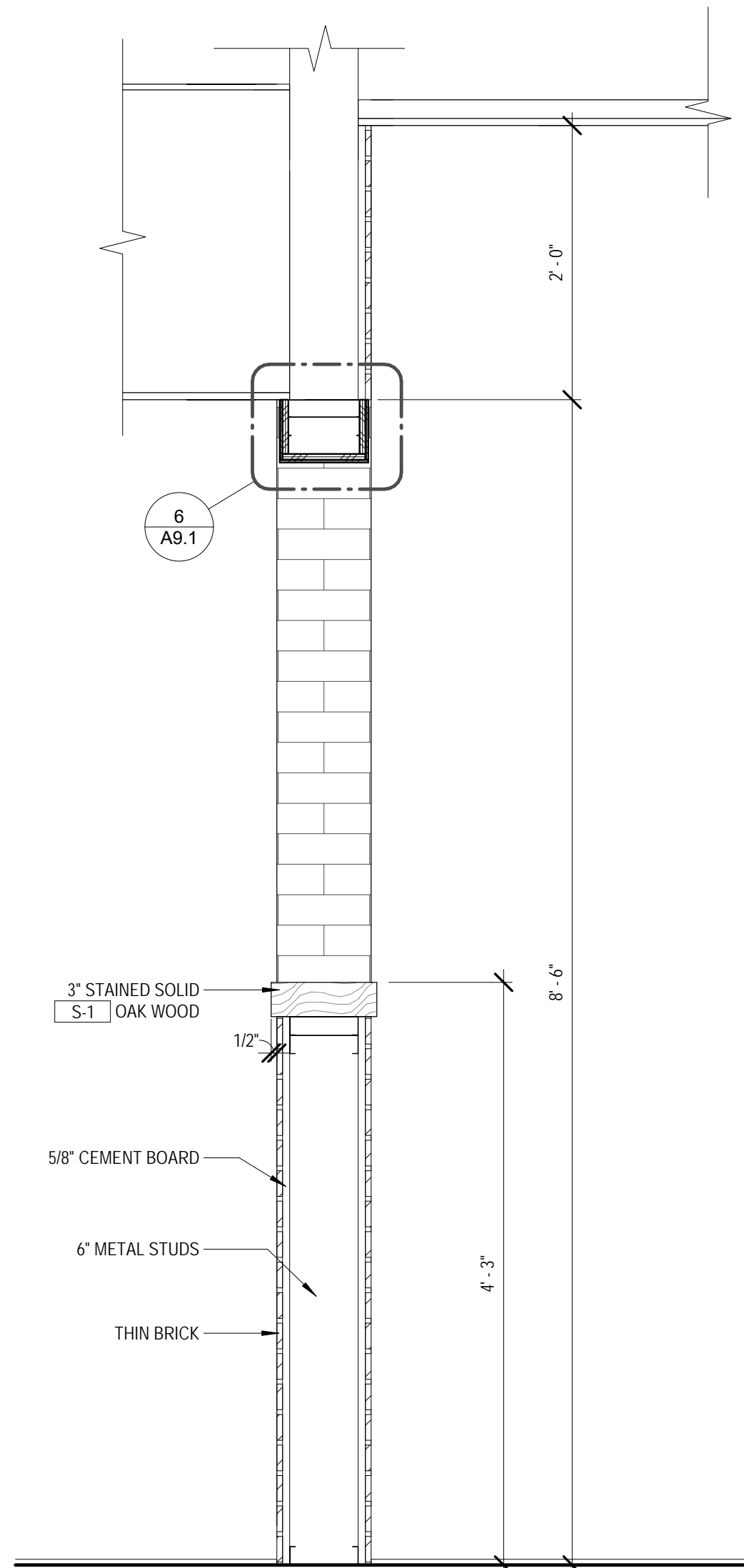


NOTE:
U-SHAPED RAILING FRAME TO BE PROVIDED
AND INSTALLED BY SIGNAGE VENDOR

NO.	DESCRIPTION	QTY	LENGTH	ANGLE1	ANGLE2	
2	1.5x1.5x0.125 AL Tube	2	27 3/4"	0.81°	0°	COMBINE 1 & 3
3	1.5x1.5x0.125 AL Tube	2	27 3/4"	0°	0.91°	
4	1.5x1.5x0.125 AL Tube	13	15"	0°	0°	COMBINE 1 & 5
5	1.5x1.5x0.125 AL Tube	2	95 15/16"	0°	0.97°	
6	1.5x1.5x0.125 AL Tube	2	97 15/16"	0.97°	0°	

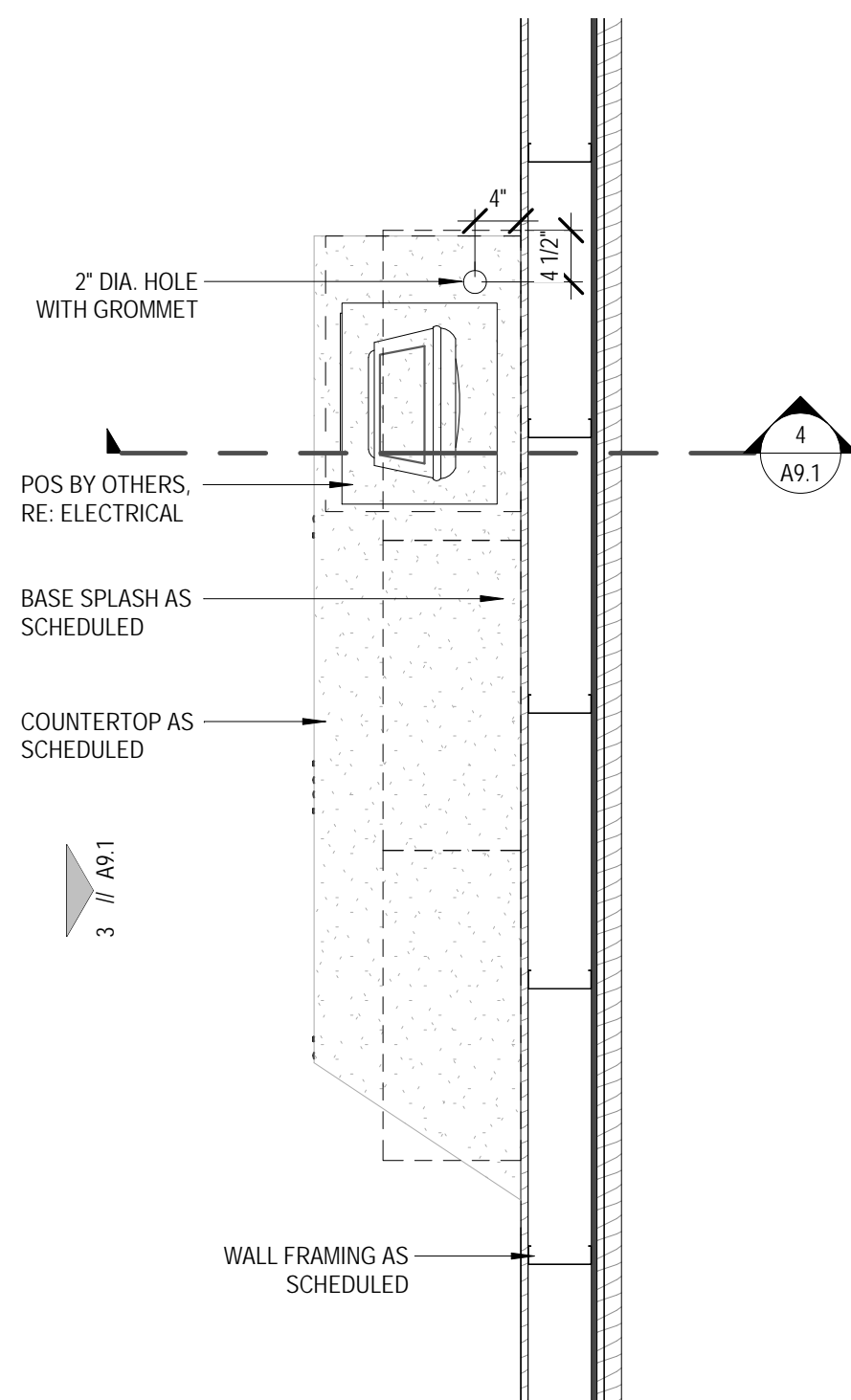


"U" SHAPED RAILING FRAME DETAILS
12" = 1'-0"



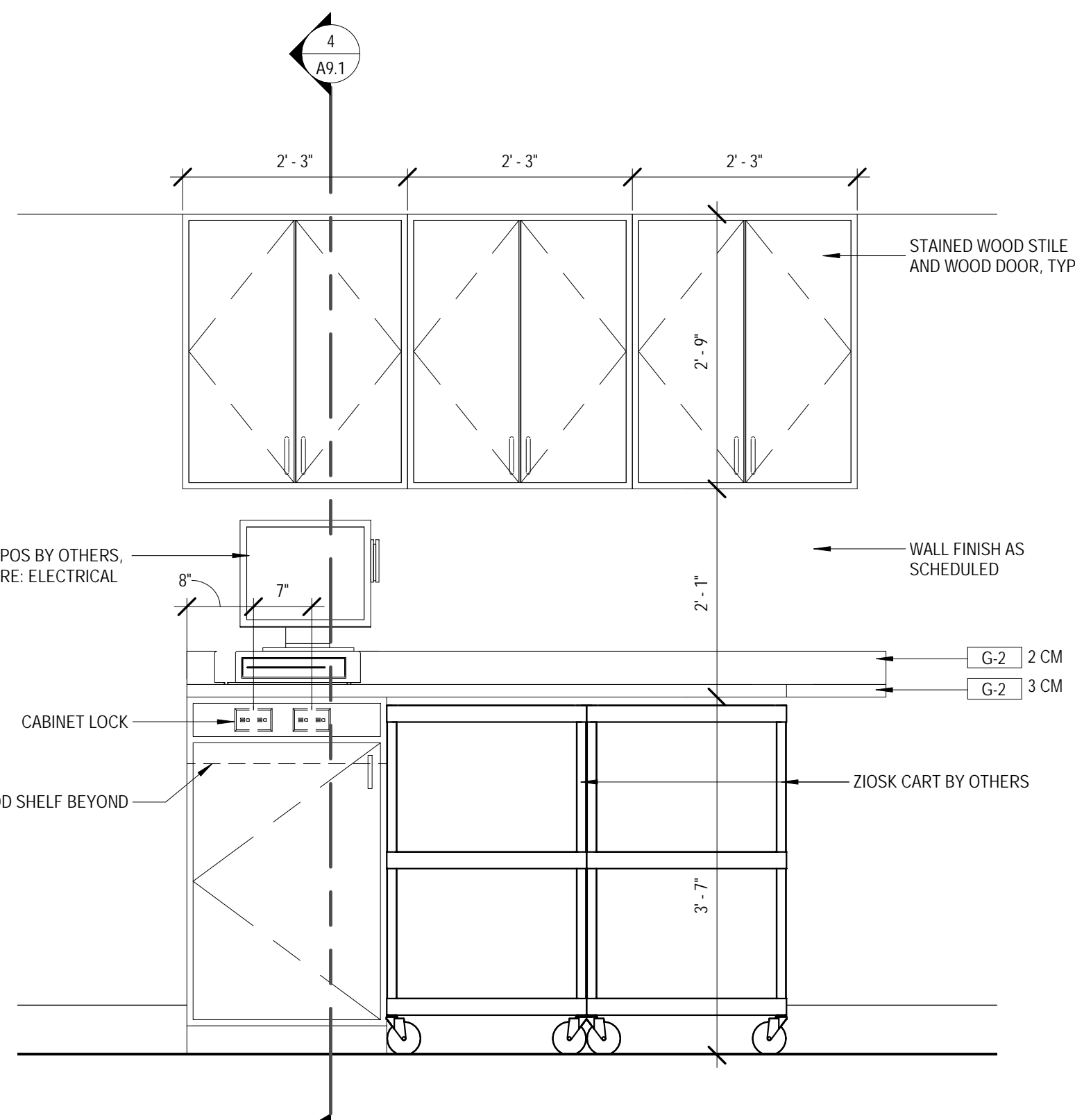
BRICK OPENING SECTION
1' - 1'0"

1



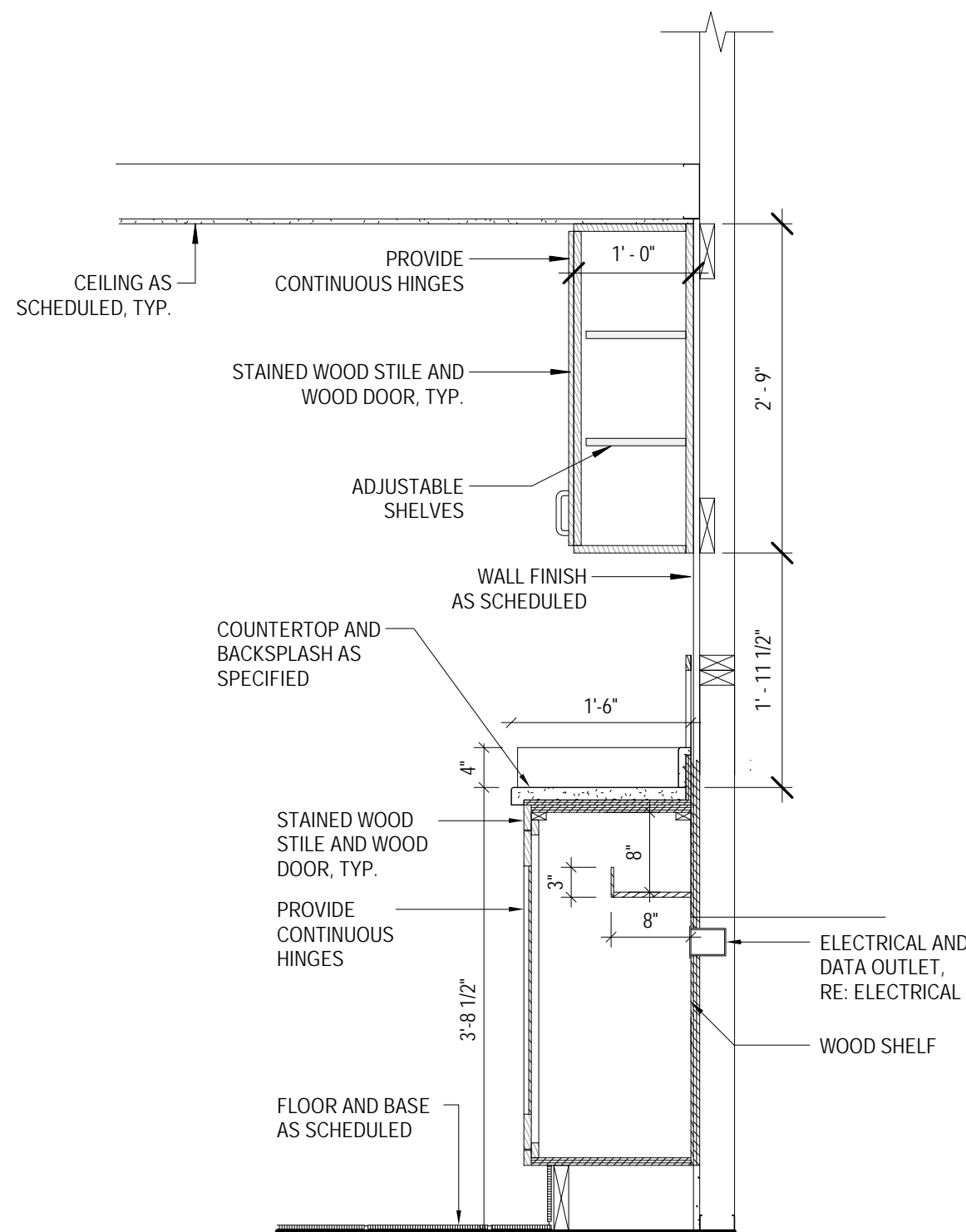
LARGE SCALE PLAN AT POS STATION 6
3/4" - 1'0"

2



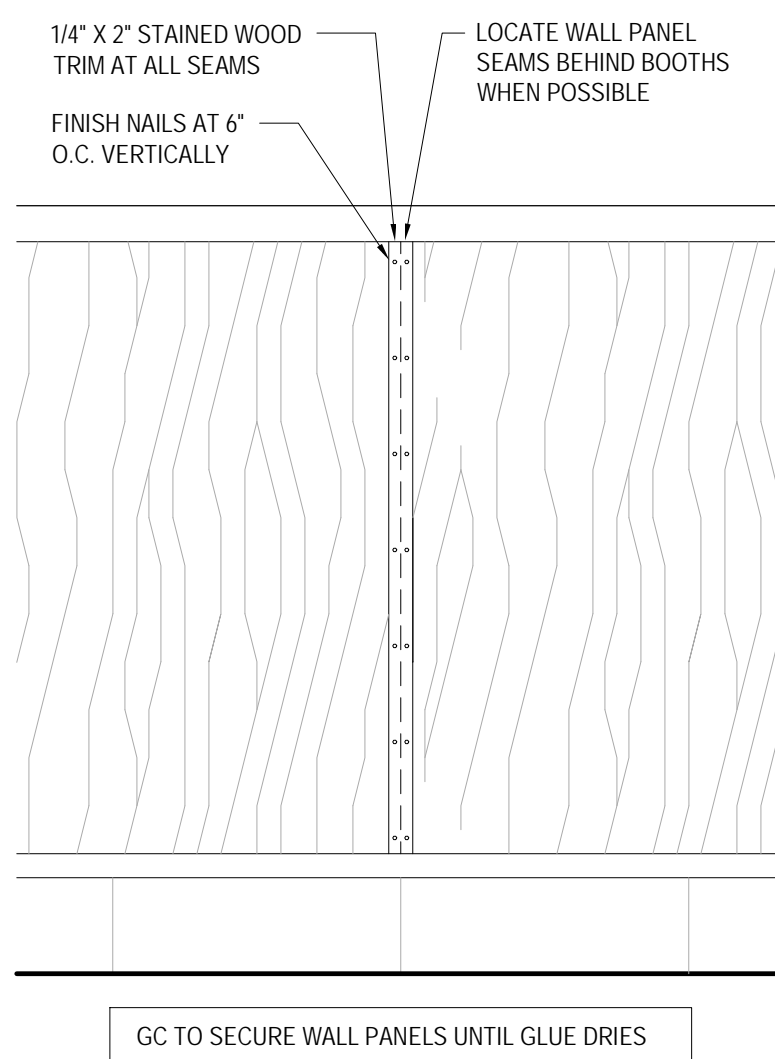
ELEVATION AT POS STATION 6
3/4" - 1'0"

3



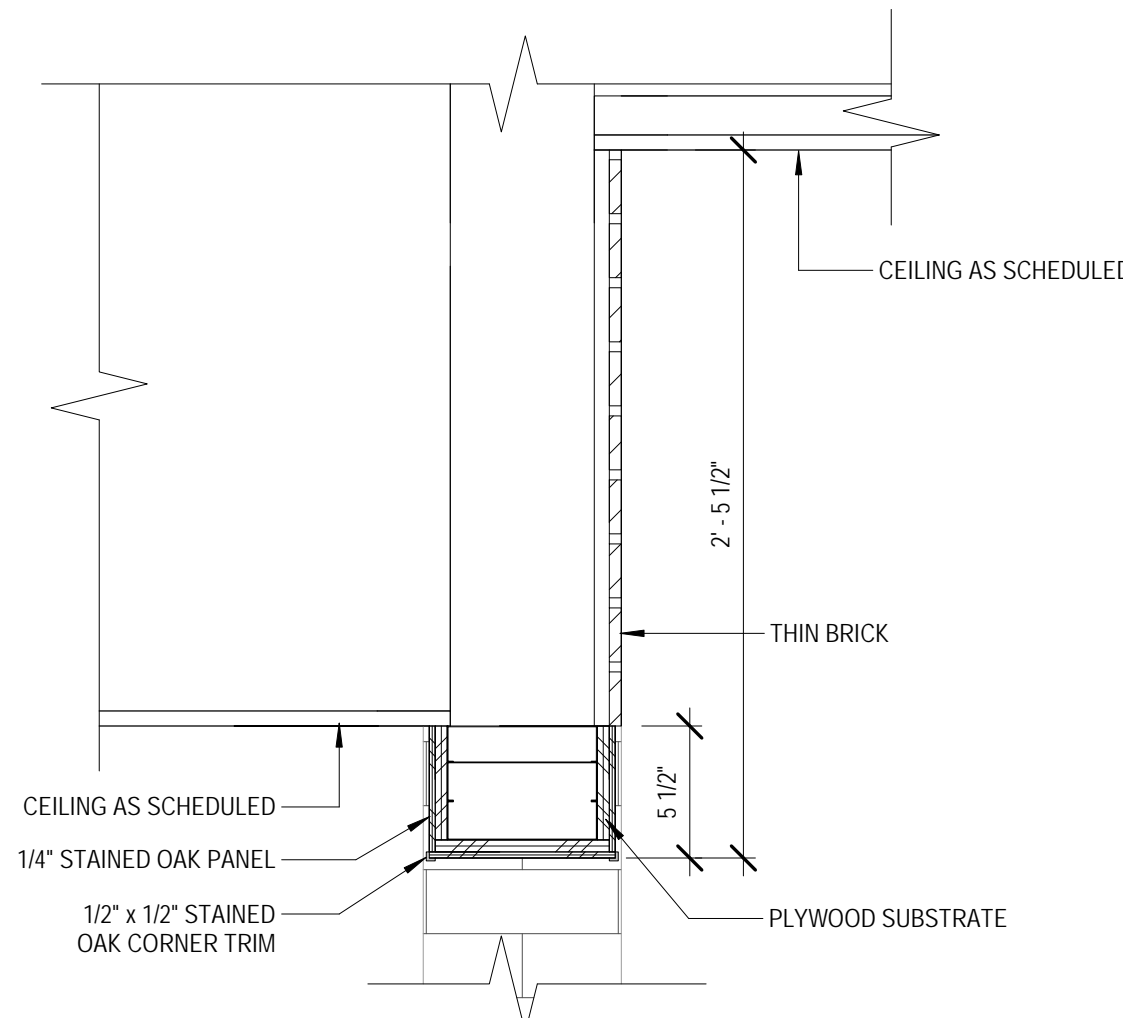
DETAIL AT POS STATION 6
3/4" - 1'0"

4



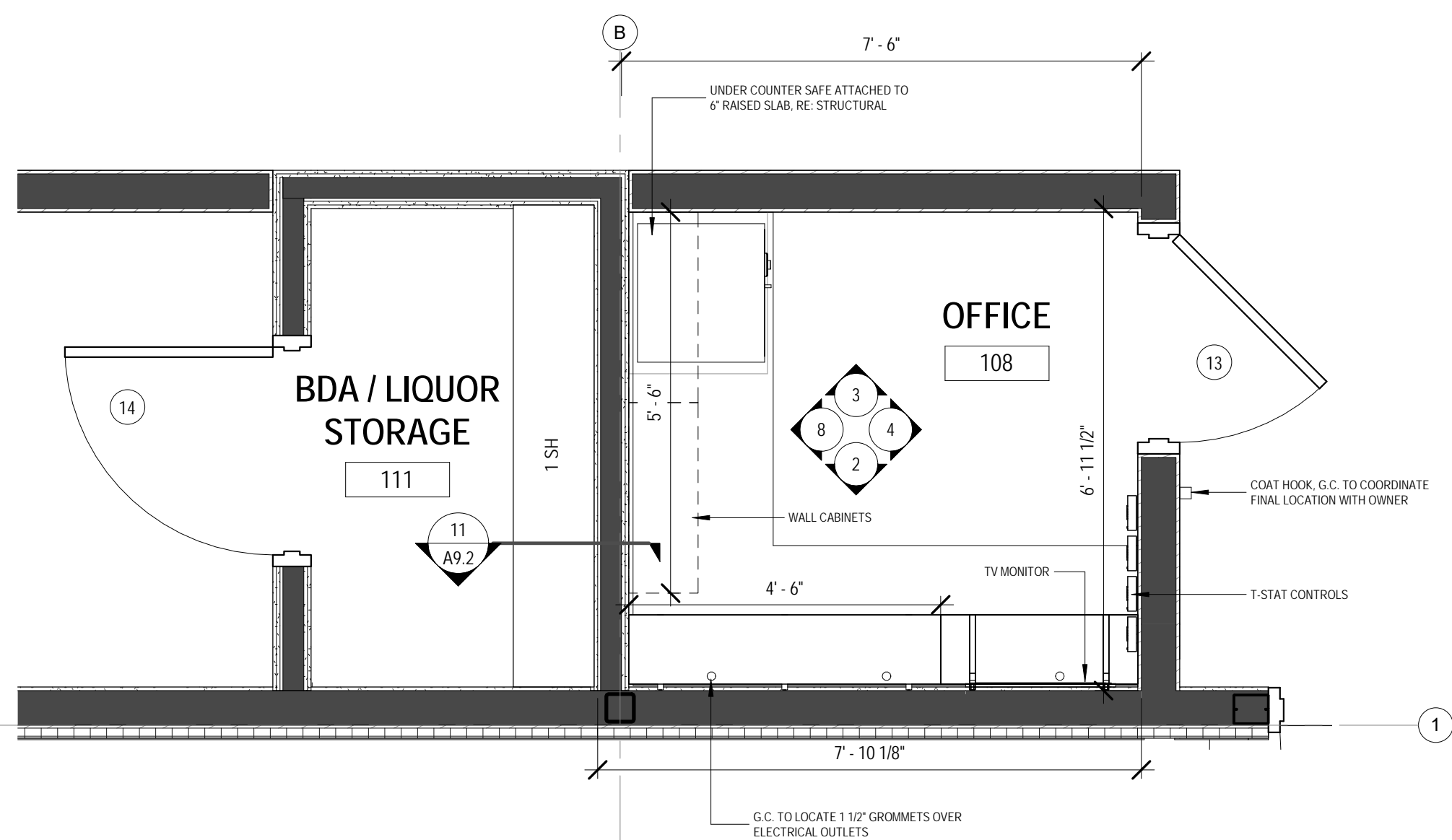
DETAIL AT WALL VENEER SEAM
1" - 1'0"

5



BULKHEAD DETAIL
1 1/2" - 1'0"

6

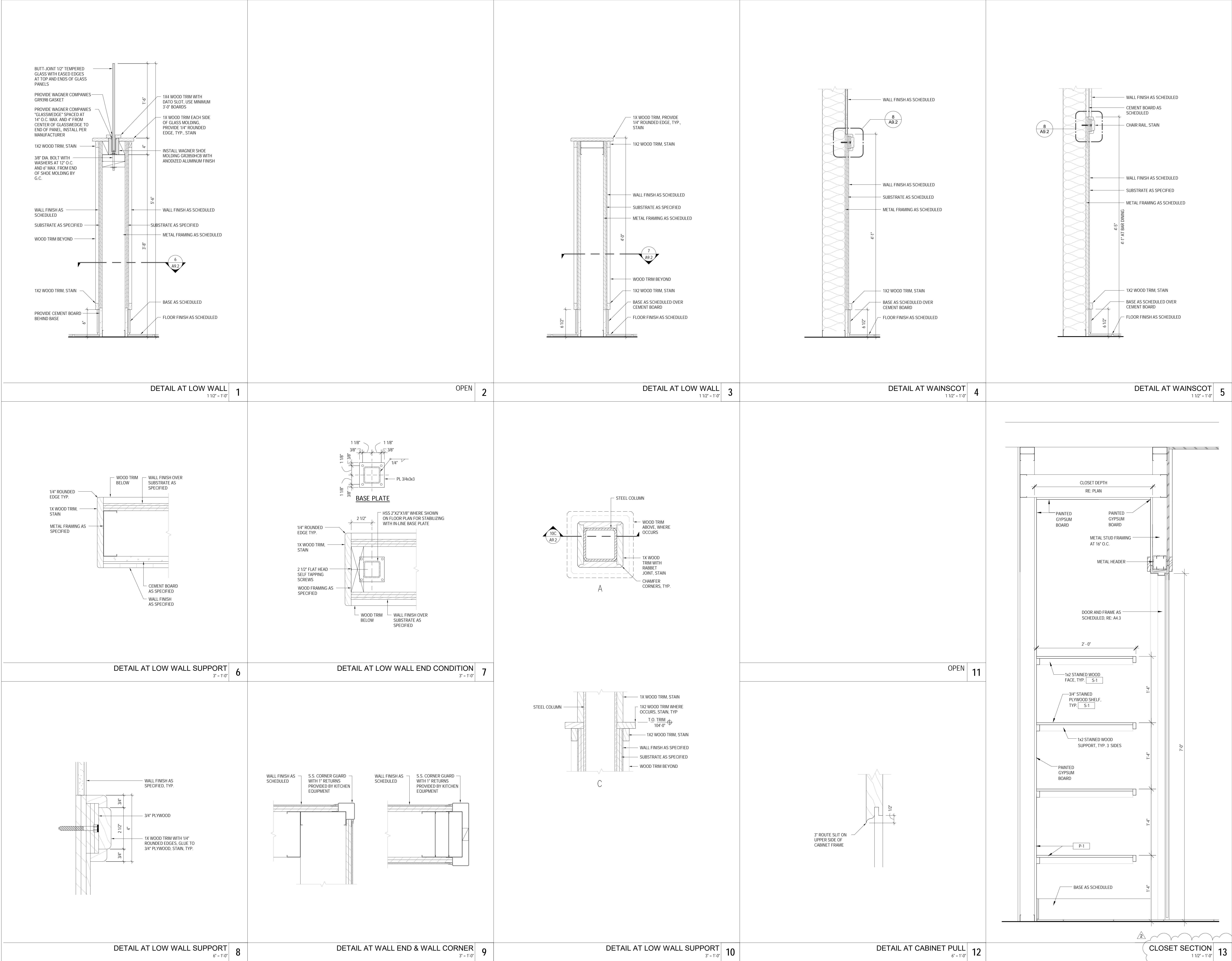


LARGE SCALE FLOOR PLAN AT LIQUOR STORAGE (WHEN BDA NOT NEEDED)
1/2" - 1'0"

7

OPEN

8



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PROJECT NUMBER
DCH22007

CLIENT:

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1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

STATE OF FLORIDA
RUSTY A. RIEBE
ARCHITECT
REGISTERED ARCHITECT
REV 02: 04.18.2023

Cheddars
SCRATCH KITCHEN

Issue Date:

02.15.2023

REVISION INFORMATION

1 04.04.2023
CITY COMMENTS
2 04.05.2023
COORDINATION COMMENTS

Restaurant #:

21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

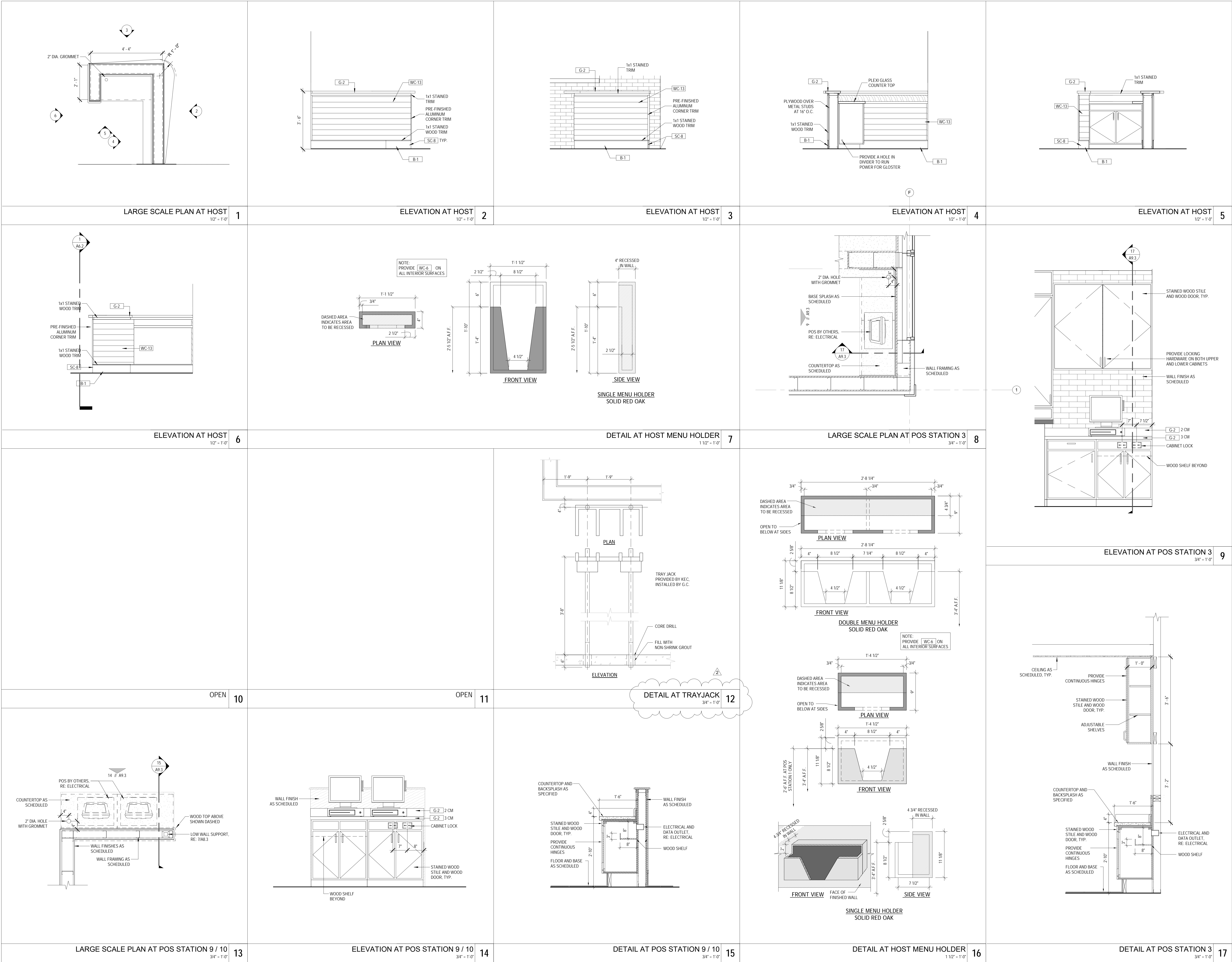
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:

INTERIOR DETAILS

A9.2



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PROJECT NUMBER
DCH22007

CLIENT:

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1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

STATE OF FLORIDA
JUSTY A. RIFE
AR88116
REGISTERED ARCHITECT
REV 02: 04.18.2023

Cheddar's
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1 04.04.2023
CITY COMMENTS

2 04.05.2023
COORDINATION COMMENTS

Restaurant #: 21K0037

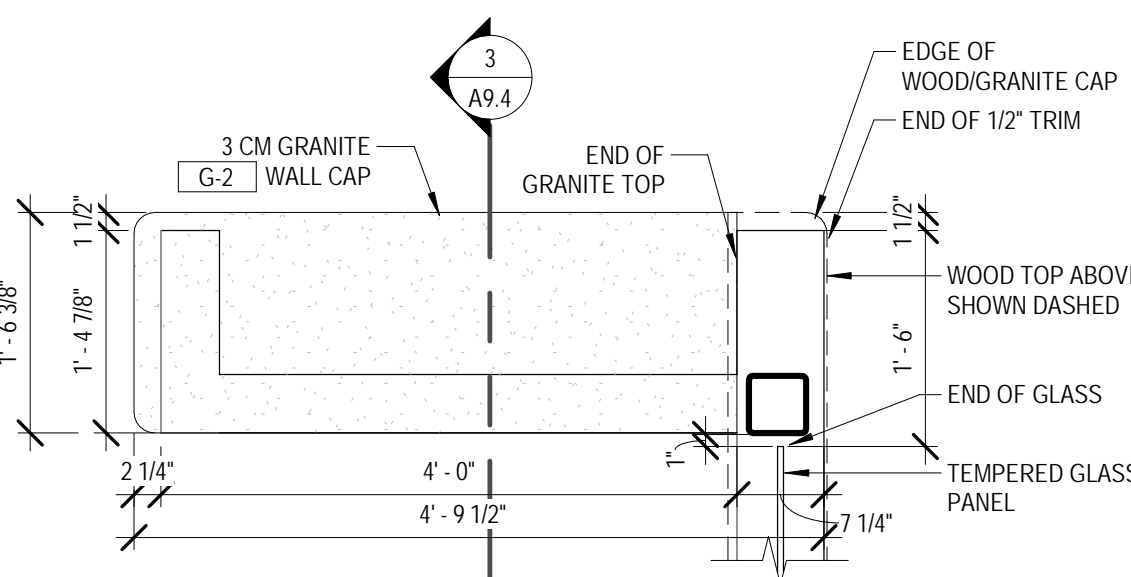
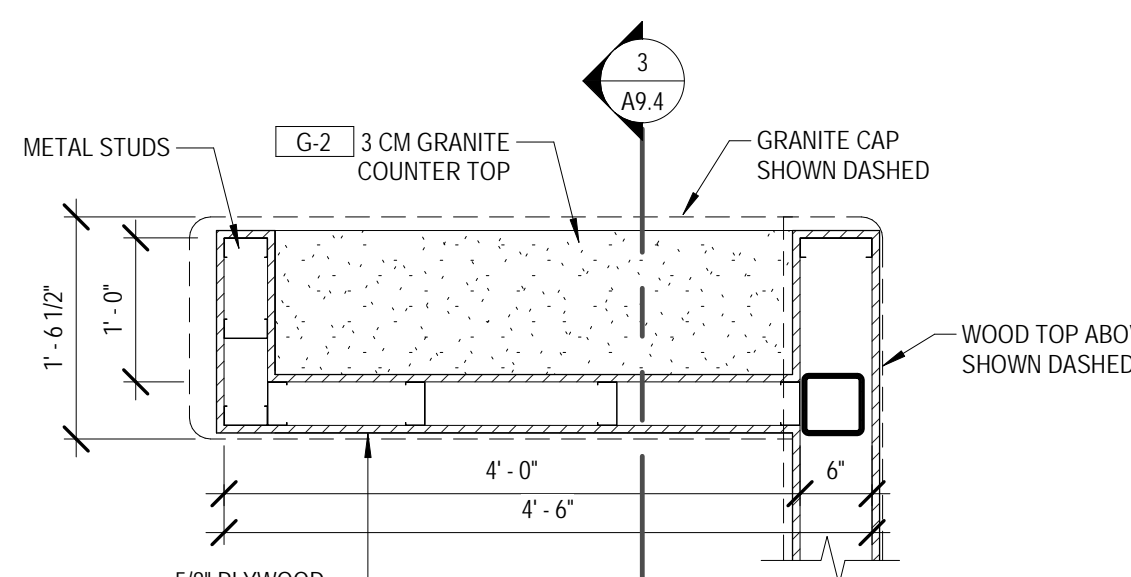
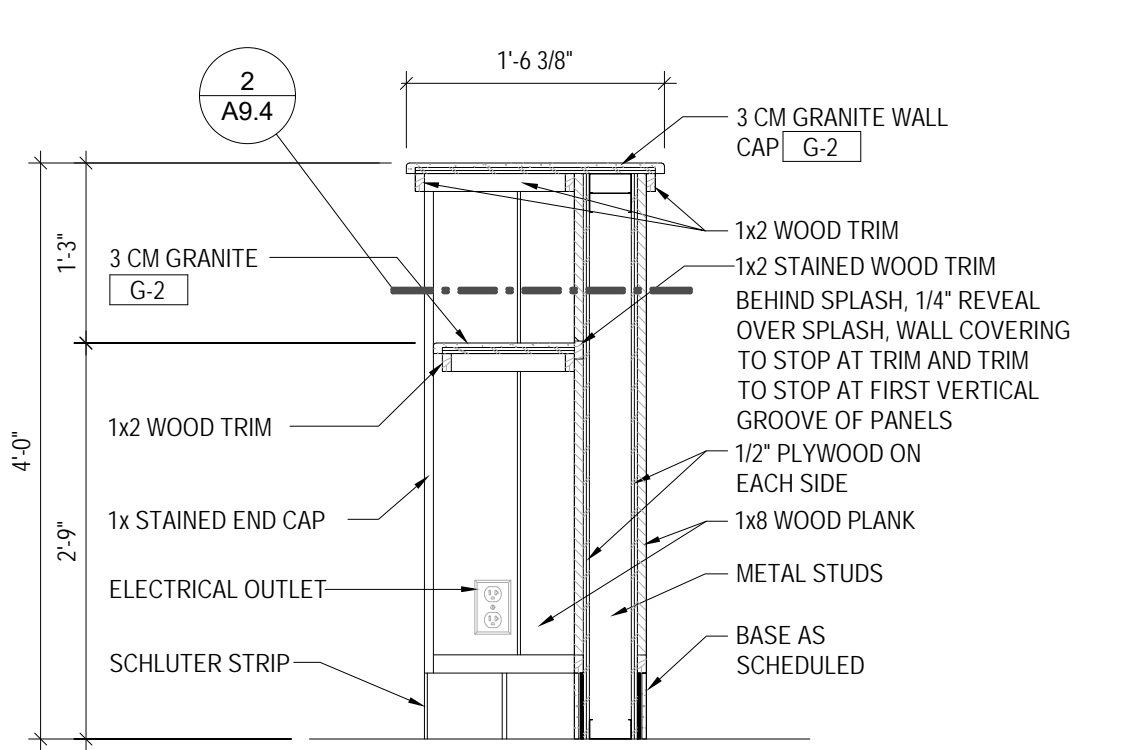
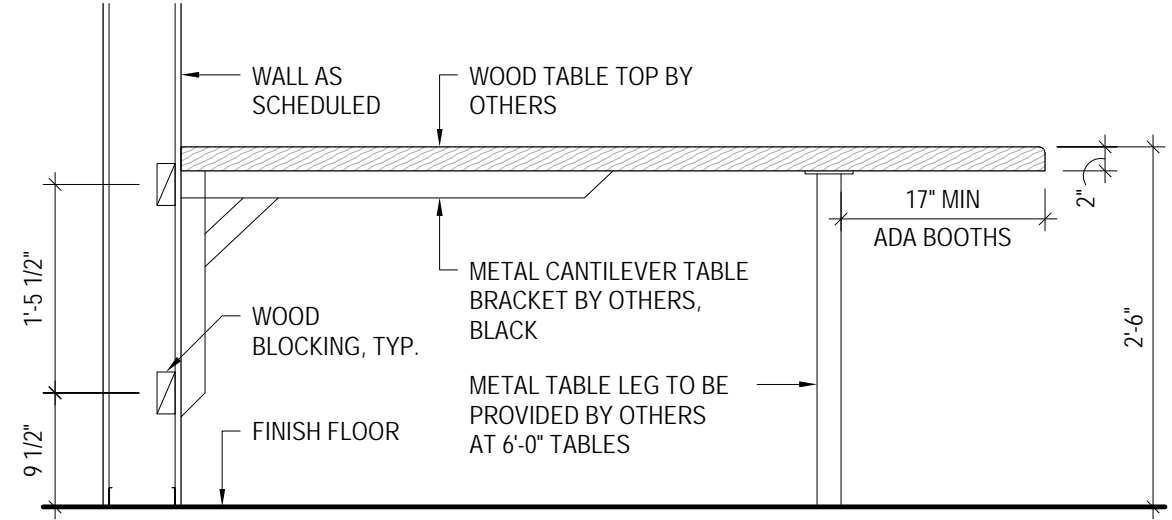
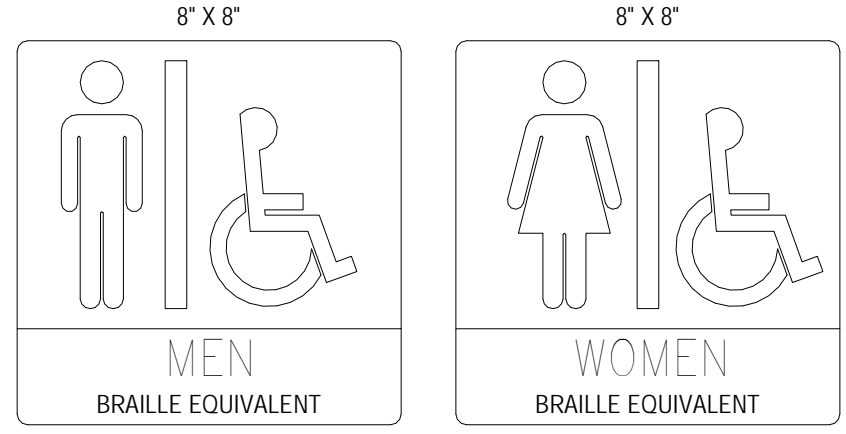
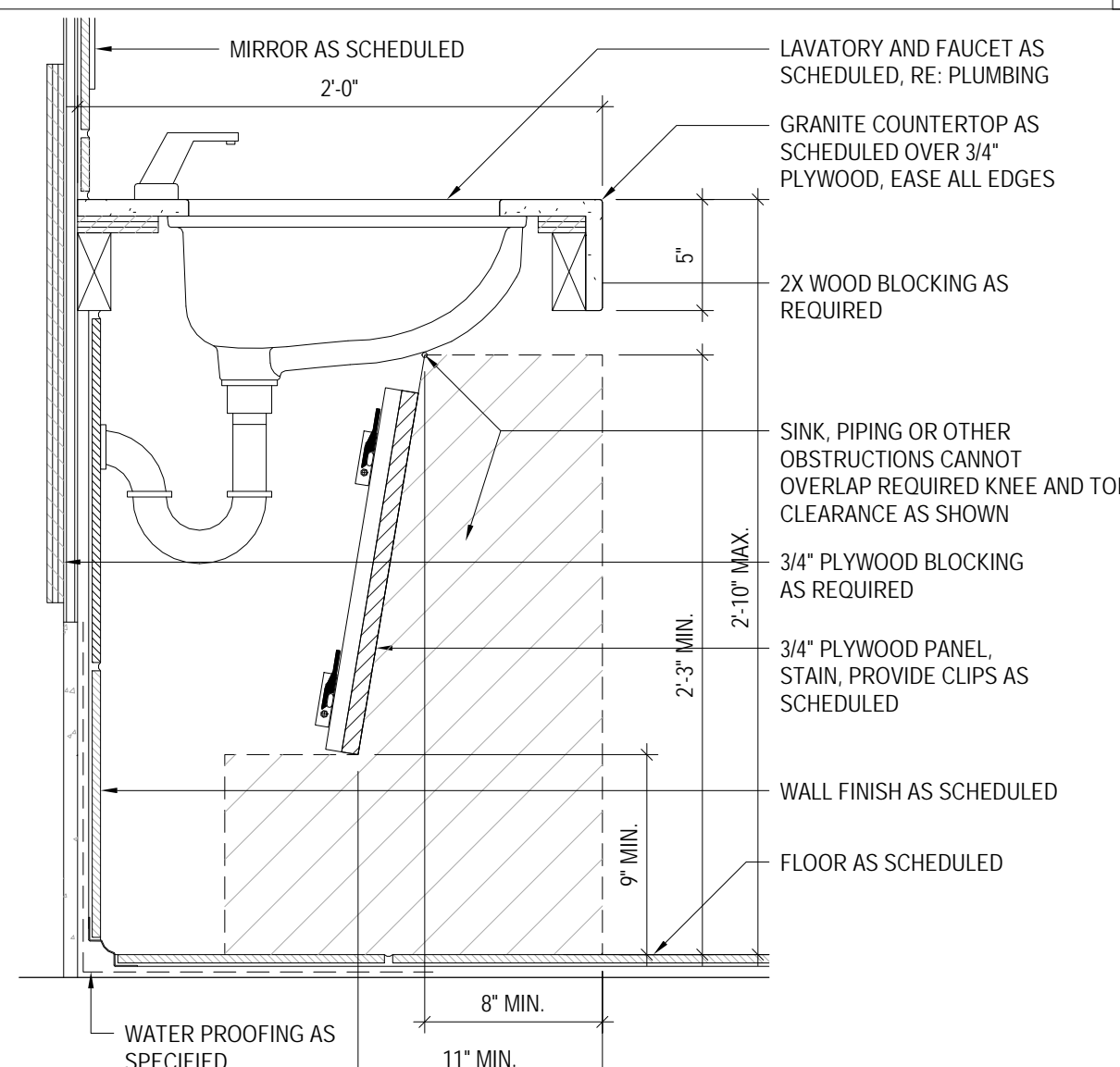
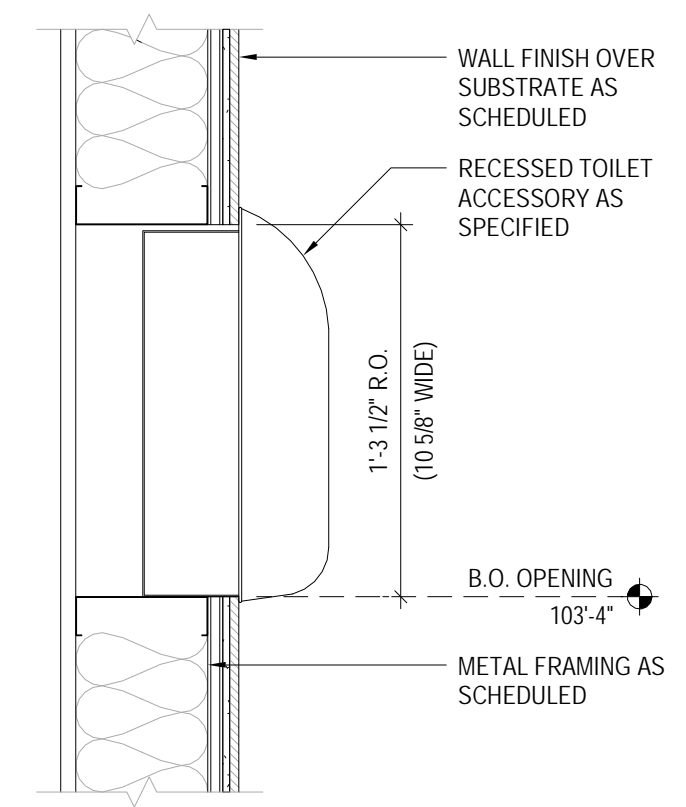
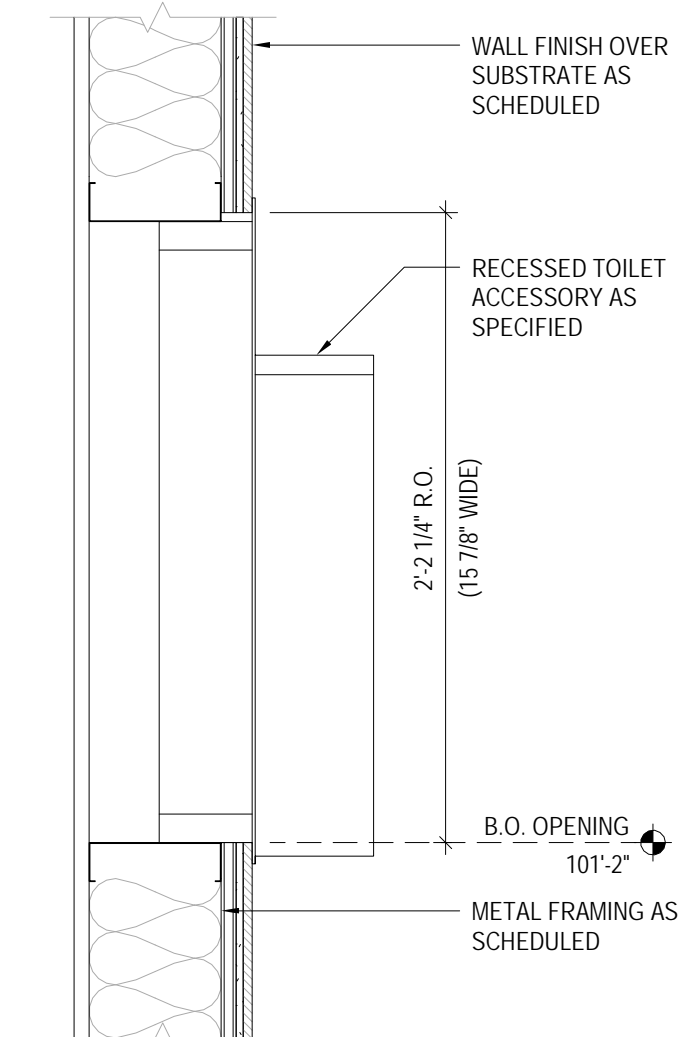
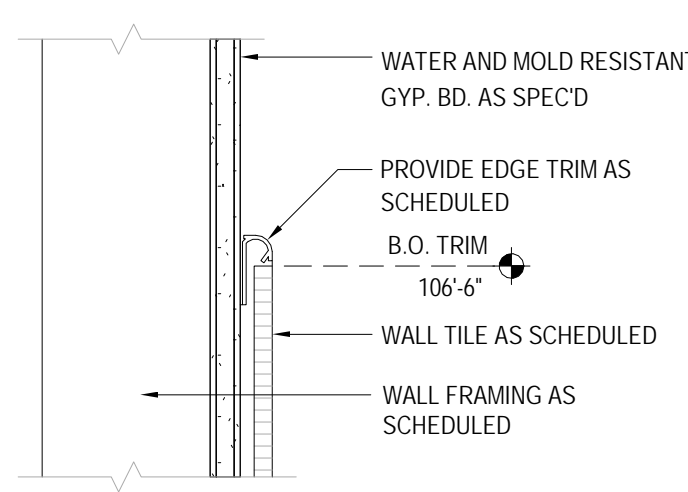
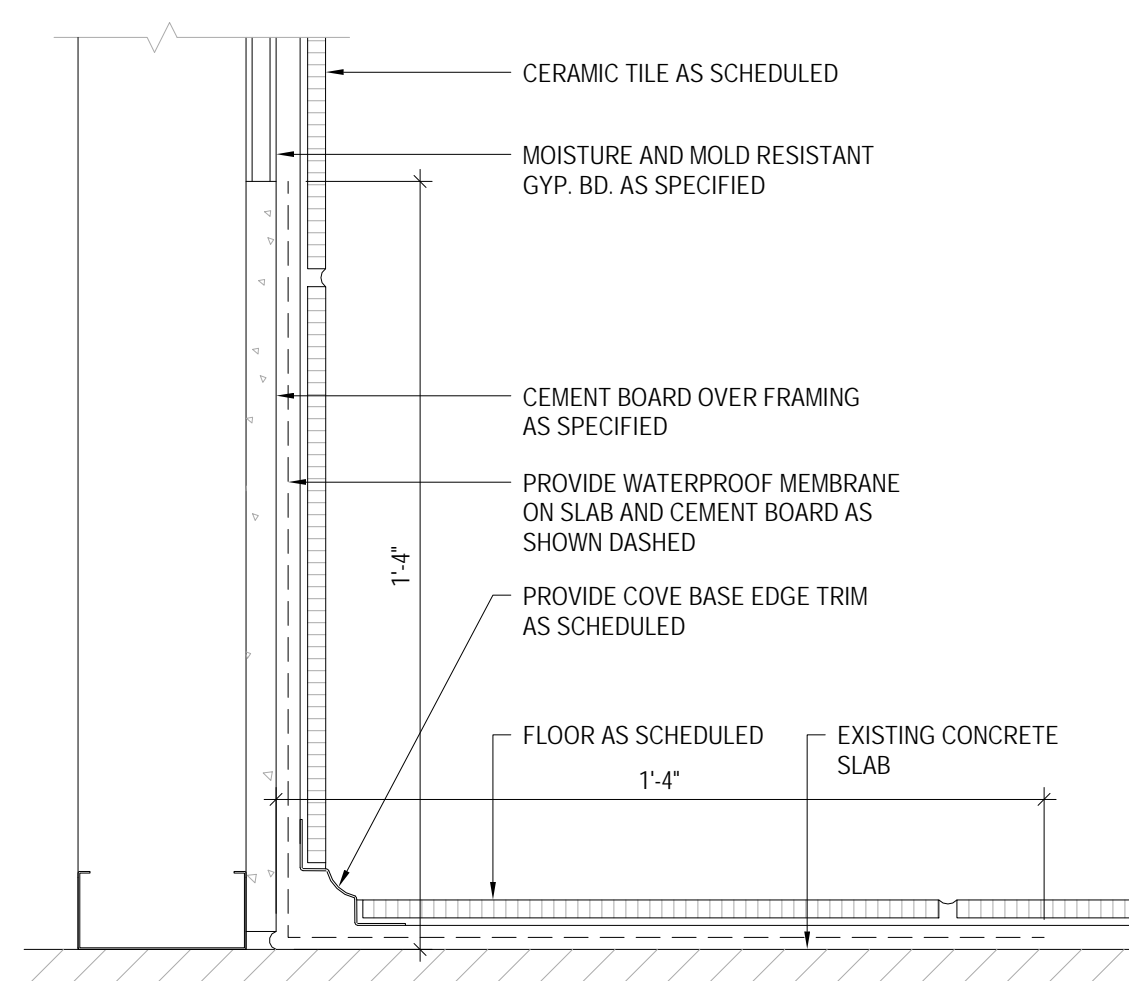
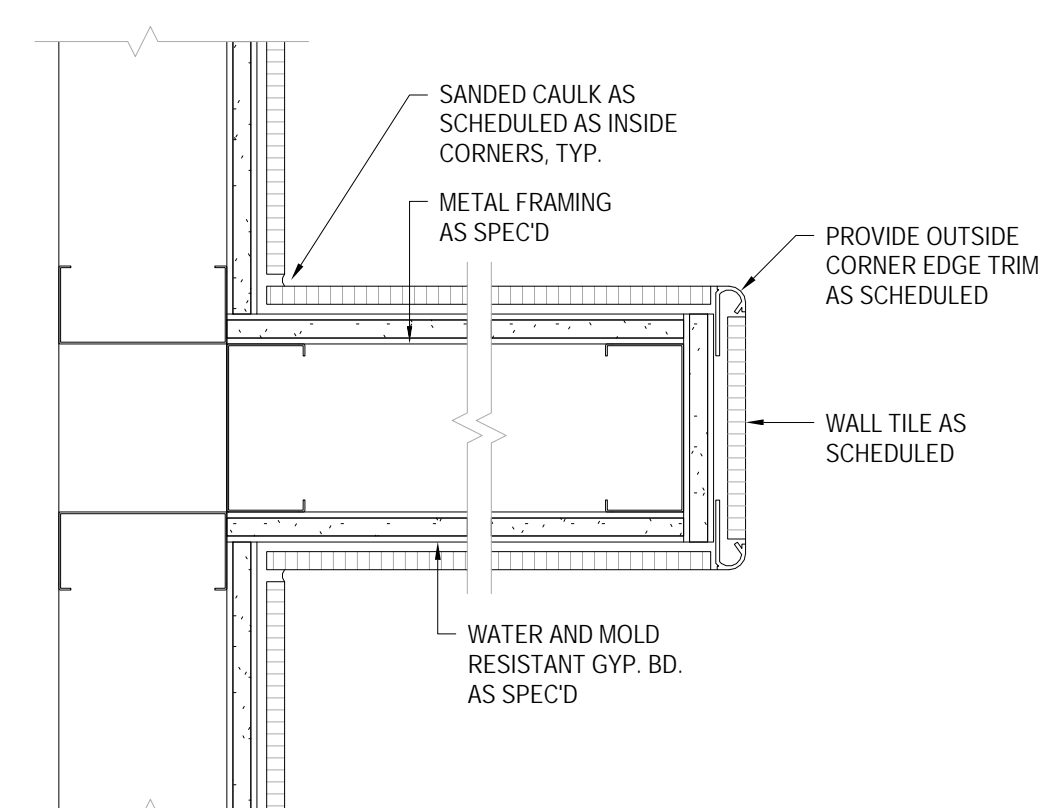
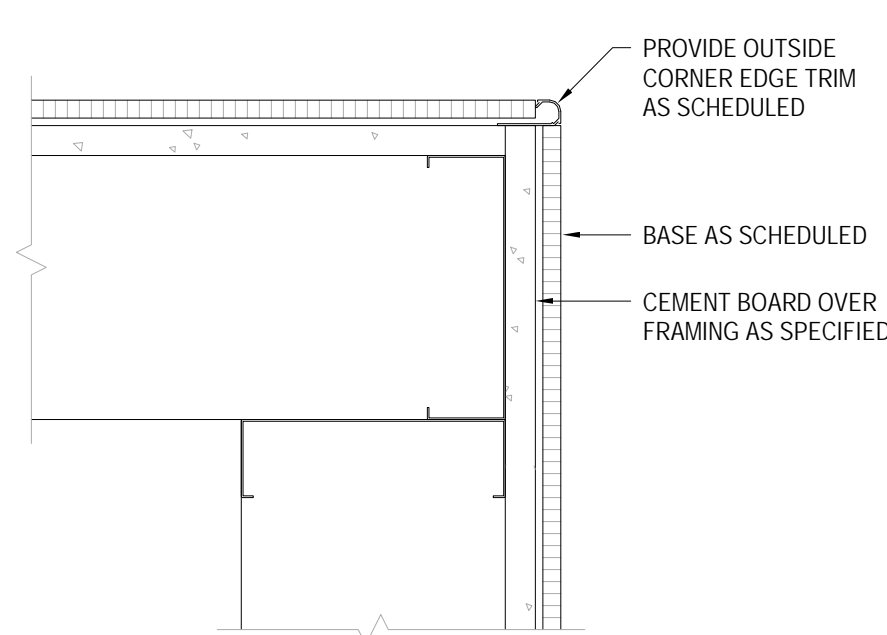
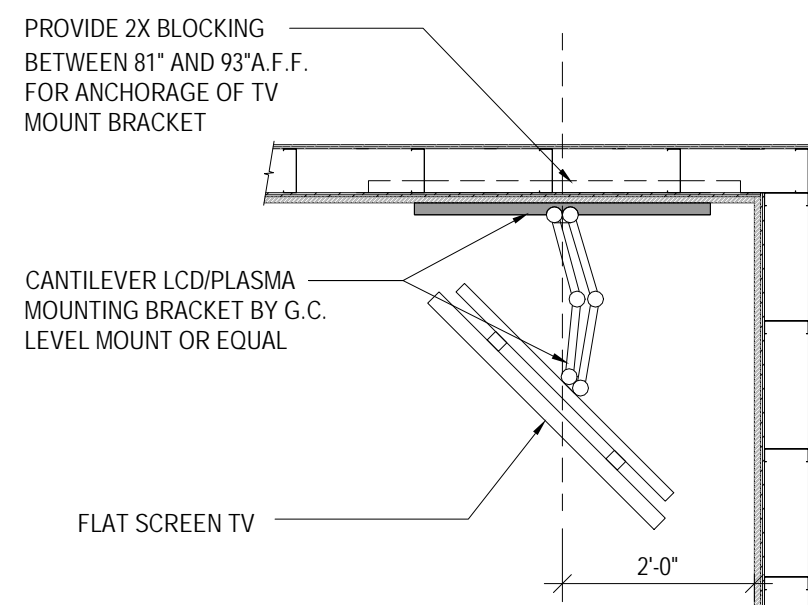
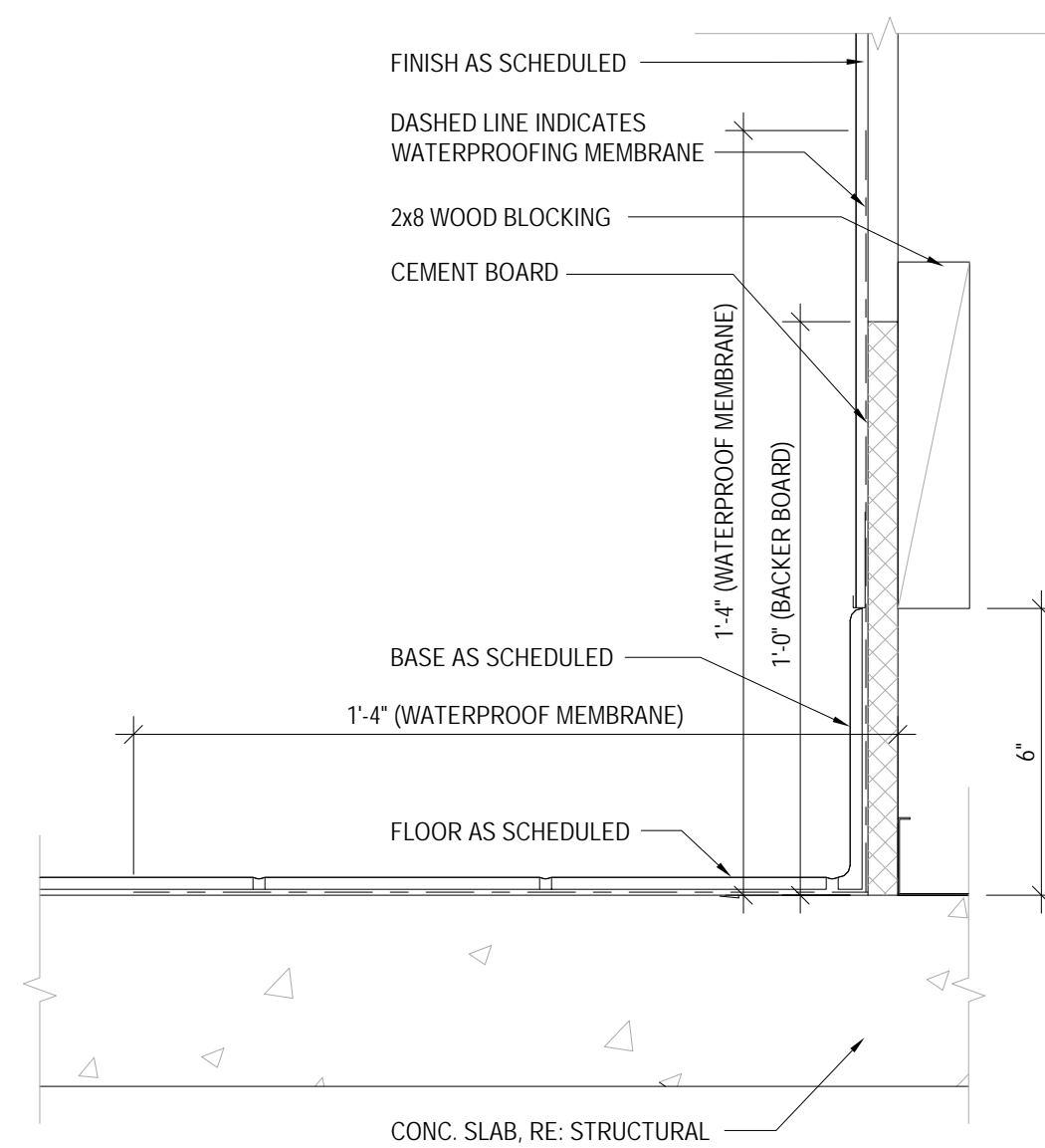
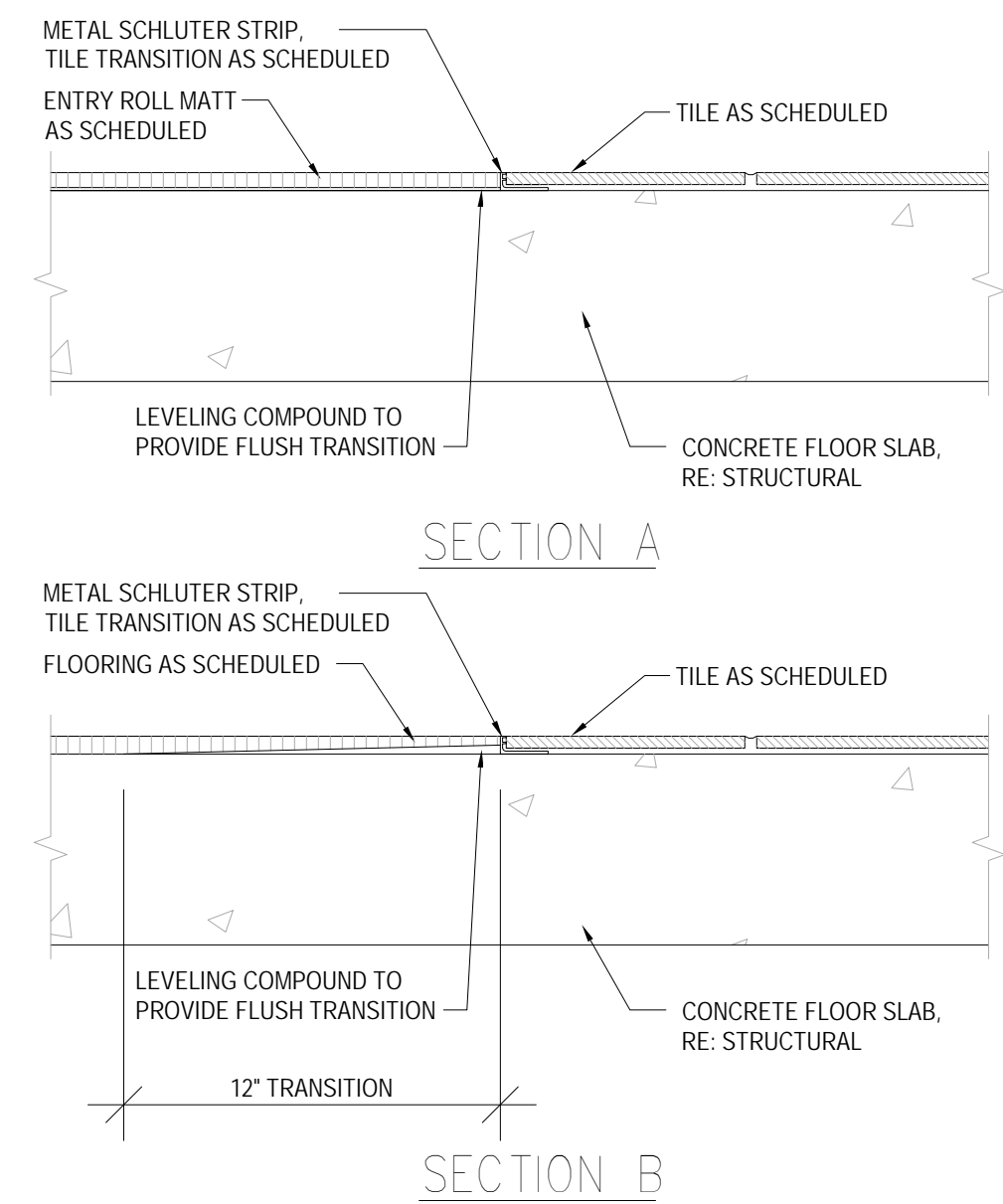
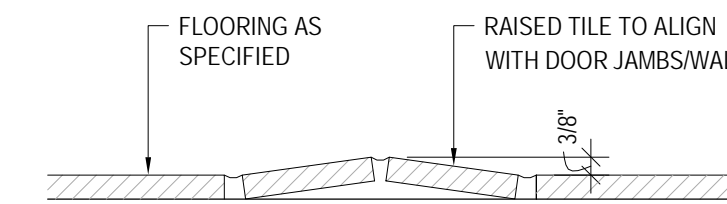
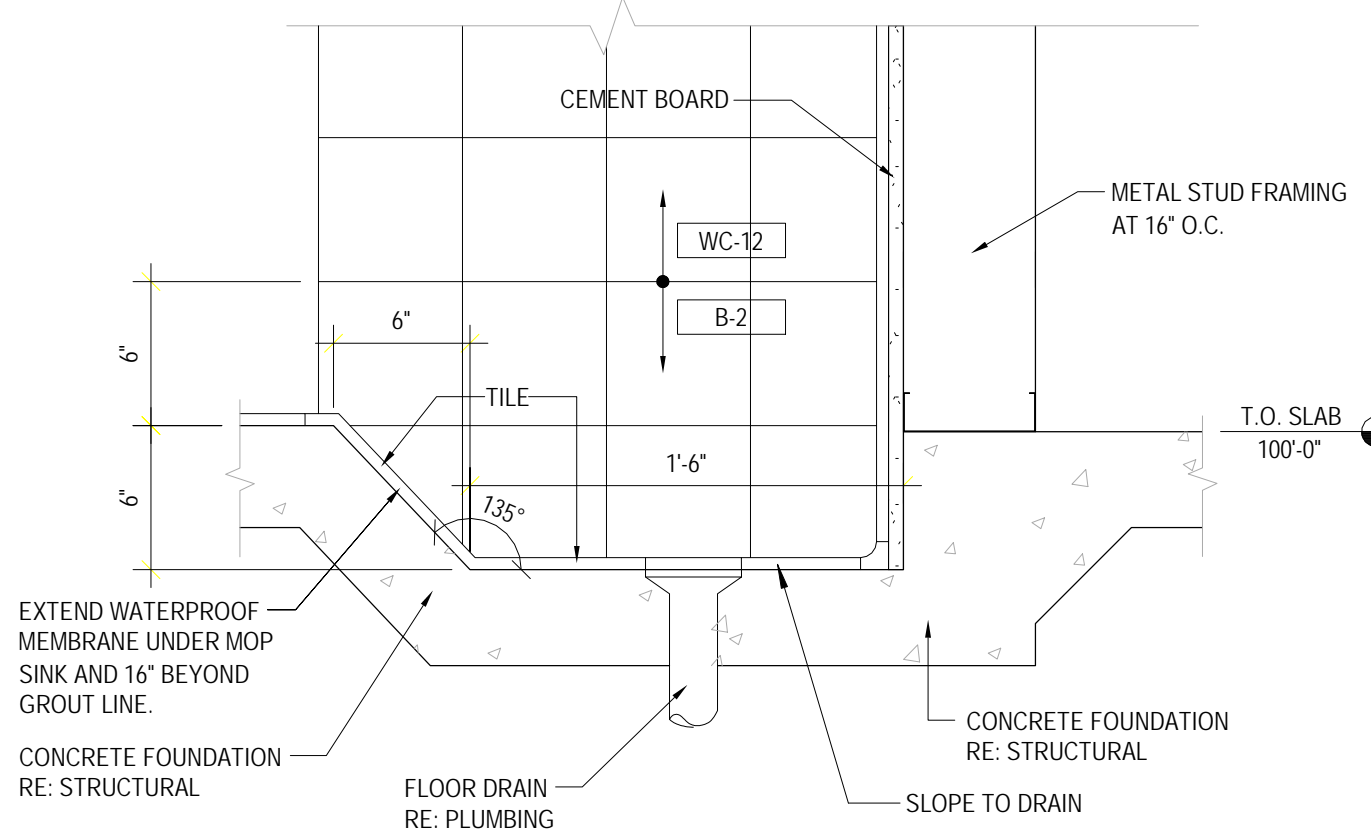
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
INTERIOR DETAILS

A9.3

				
LARGE SCALE PLAN AT DINING SHELF 3/4" = 1'-0"	LARGE SCALE PLAN AT DINING SHELF 3/4" = 1'-0"	DETAIL AT DINING SHELF 3/4" = 1'-0"	DETAIL AT TABLE SUPPORT 3/4" = 1'-0"	
 <div>1. UPPER CASE CHARACTERS, HELVETICA 2. CHARACTERS RAISED 1/32" MINIMUM 3. GRADE 2 BRAILLE 4. CHARACTERS AT LEAST 5/8" IN HEIGHT BUT NO HIGHER THAN 2" 5. EQUIVALENT VERBAL DESCRIPTIONS PLACED BELOW EACH PICTOGRAM 6. PICTOGRAM AREA TO HAVE A FIELD HEIGHTS OF 6" MINIMUM 7. COLOR CONTRAST BETWEEN CHARACTERS AND BACKGROUND 8. MOUNT ON WALL ADJACENT TO LATCH SIDE OF DOOR 9. MOUNT 60" FROM FINISHED FLOOR TO CENTER OF SIGN ADJACENT TO DOOR 10. MOUNT 9" FROM EDGE OF DOOR TO CENTERLINE OF SIGN</div>				
DETAIL AT TABLE SUPPORT 3" = 1'-0"	MILLWORK AT LAVATORY 1 1/2" = 1'-0"	DETAIL AT RECESSED PAPER TOWEL DISPENSER 1 1/2" = 1'-0"	MILLWORK AT LAVATORY 1 1/2" = 1'-0"	OPEN
				
DETAIL AT TILE TRANSITION 3" = 1'-0"	DETAIL AT TILE BASE 3" = 1'-0"	DETAIL AT TILE CORNERS 3" = 1'-0"	DETAIL AT BASE OUTSIDE WALL CORNERS 3" = 1'-0"	PLAN DETAIL AT TV MOUNT 1/2" = 1'-0"
				
DETAIL WATERPROOF MEMBRANE 3" = 1'-0"	DETAIL WATERPROOF MEMBRANE 3" = 1'-0"	DETAIL WATERPROOF MEMBRANE 3" = 1'-0"	DETAIL WATERPROOF MEMBRANE 1 1/2" = 1'-0"	

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PROJECT NUMBER
DCH22007

CLIENT:

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1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

STATE OF FLORIDA
JUSTY A. RIVER
AR88116
REGISTERED ARCHITECT

REV 02: 04.18.2023

Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1

04.04.2023

CITY COMMENTS

2

04.05.2023

COORDINATION COMMENTS

Restaurant #: 21K0037

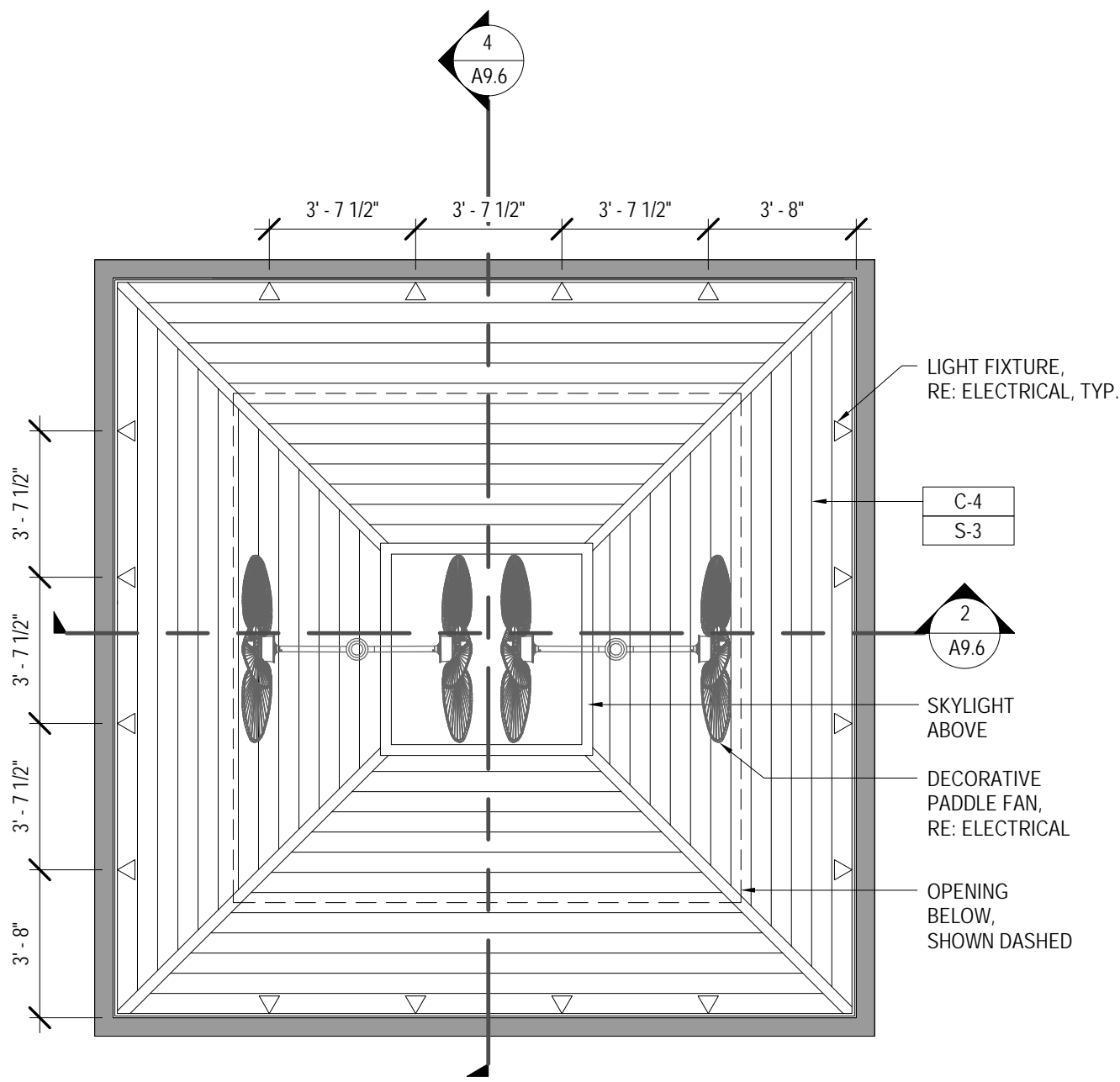
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

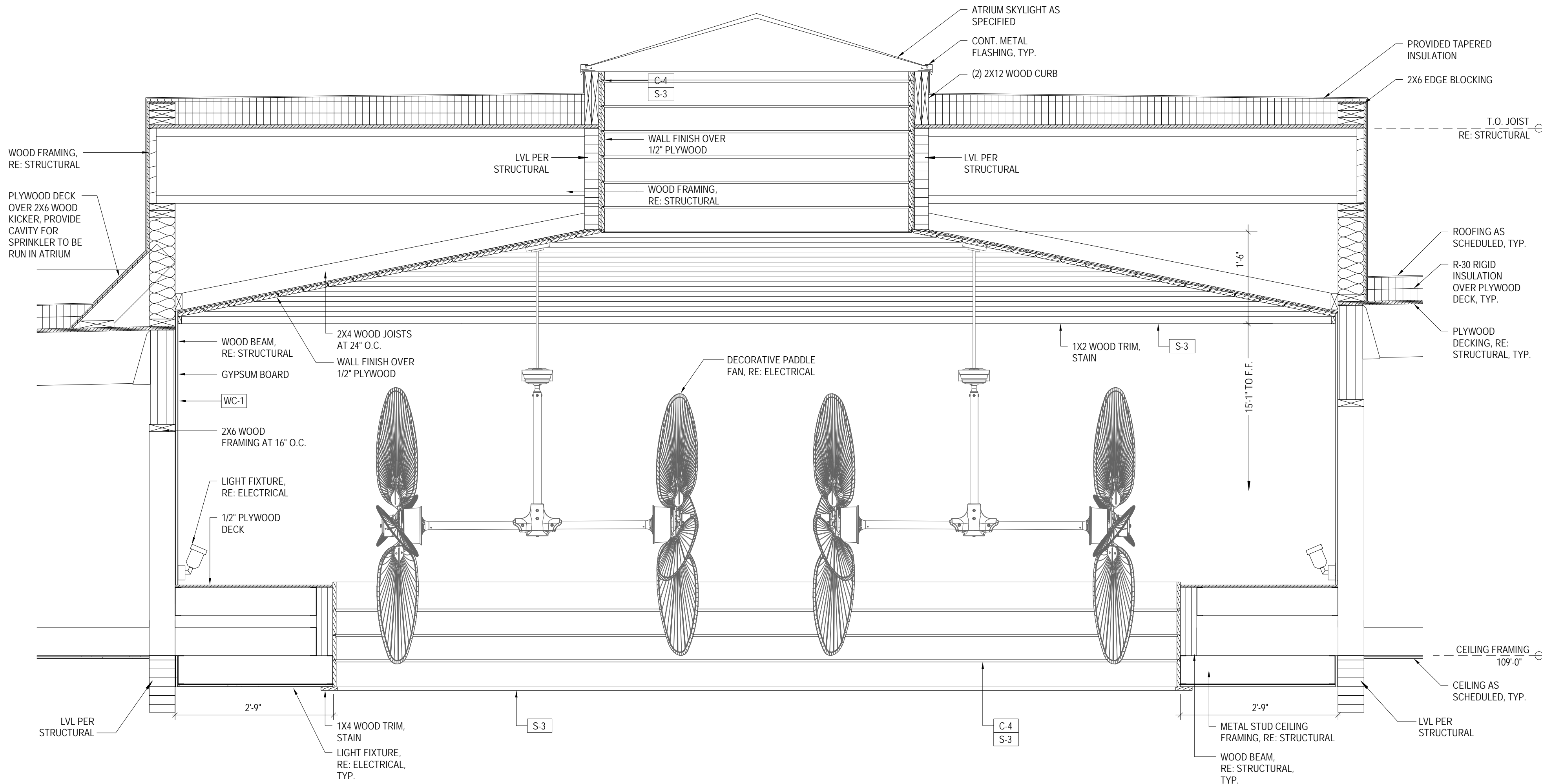
Drawing:
INTERIOR DETAILS

A9.4



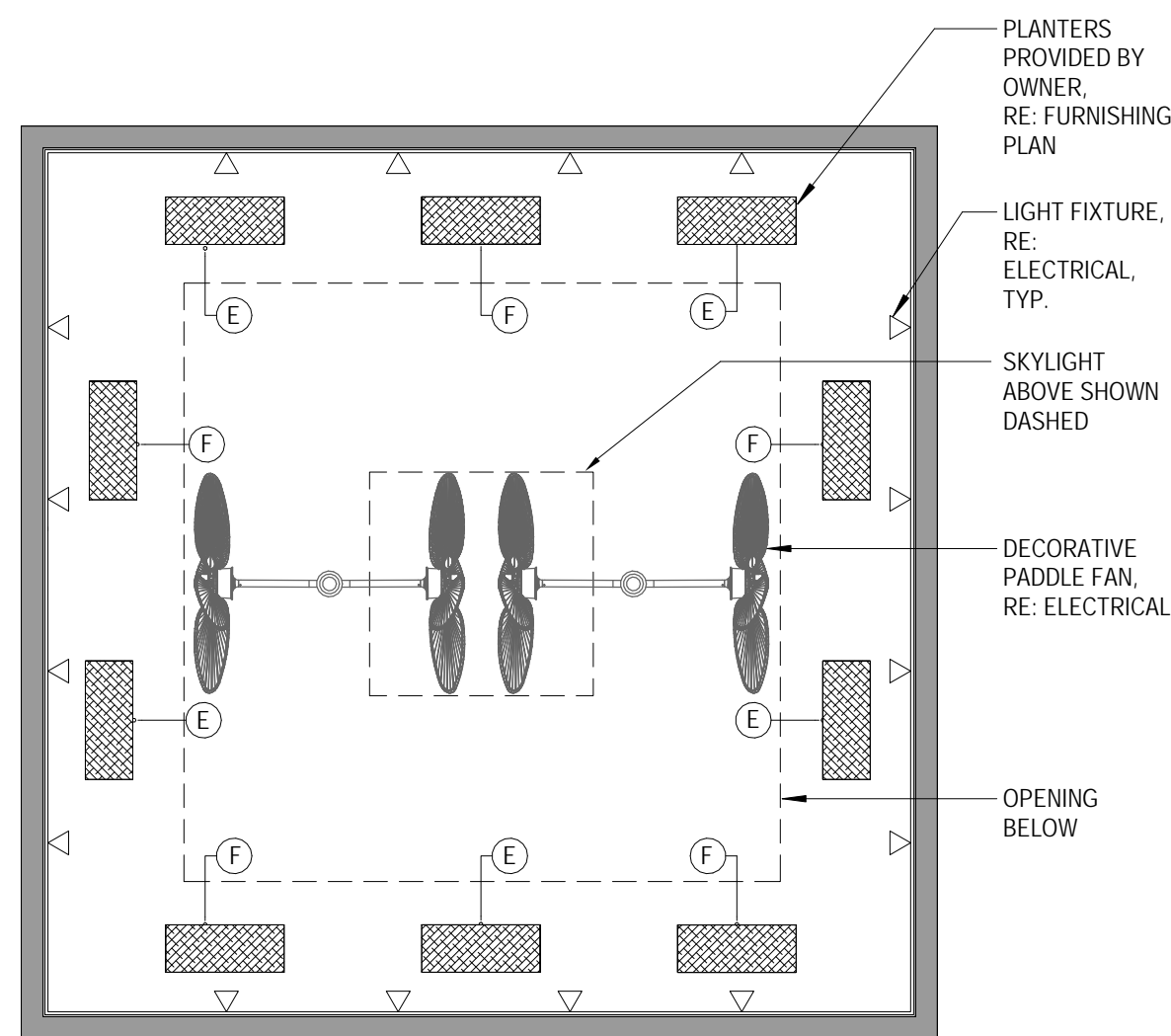
PLAN AT ATRIUM SKYLIGHT
1/4" = 1'-0"

1



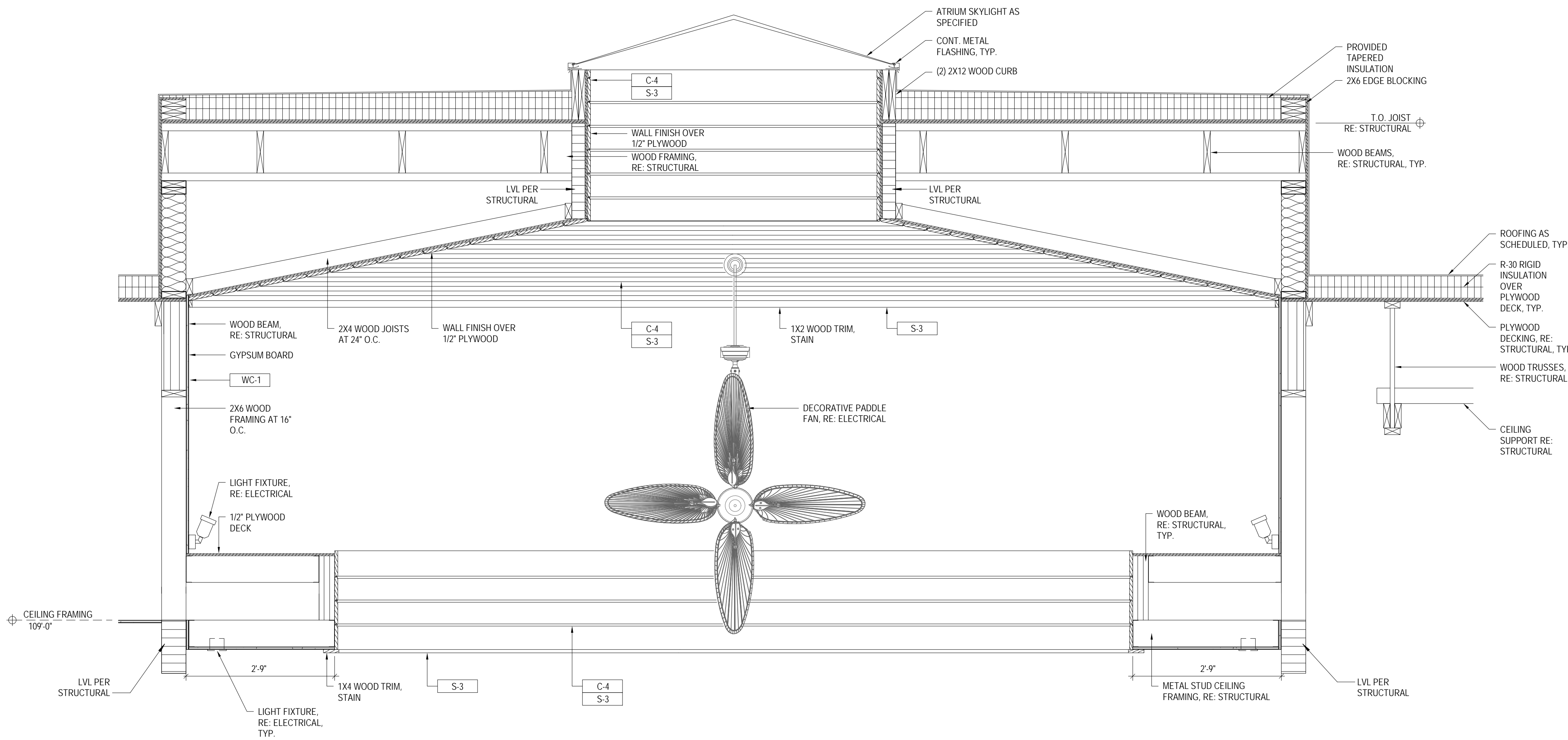
SECTION AT ATRIUM SKYLIGHT
3/4" = 1'-0"

2



PLAN AT ATRIUM SKYLIGHT
1/4" = 1'-0"

3



SECTION AT ATRIUM SKYLIGHT
3/4" = 1'-0"

4

FINISH SCHEDULE - INTERIOR

INTERIOR PAINT	
P-1	TAVERN TAUPE
P-2	BIS WHITE
P-3	BLACK OF NIGHT
P-4	HALF CAFF
STAIN	
S-1	EBONY
S-2	CLEAR SEALER
S-3	FLAGSTONE
S-4	BRICK SEALER
WALL COVERING	
WC-1	VINYL FABRIC
WC-2	FRP-WHITE
WC-3	FRP-BLACK
WC-4	WOOD LAMINATE
WC-5	PLASTIC LAMINATE-WHITE
WC-6	PLASTIC LAMINATE-BLACK
WC-7	STONE
WC-8	PORCELAIN TILE-CREME
WC-9	PORCELAIN TILE-TORTORA
WC-10	PORCELAIN TILE-TIGERS EYE
WC-11	QUARRY TILE
WC-12	WOOD PLANKS
WC-13	STAINLESS STEEL PANEL
WC-14	THIN BRICK
WC-15	WOOD PANEL
GRANITE	
G-1	GRANITE JUPARANA ST. CECILIA
G-2	GRANITE-BLACK
G-3	CORIAN SAHARA
BASE	
B-1	PORCELAIN TILE-MINERAL CHROME
B-2	QUARRY TILE
B-3	PORCELAIN TILE-RESIDE
CEILING	
C-1	ACOUSTICAL CEILING-BLACK
C-2	ACOUSTICAL CEILING-WHITE
C-3	NOT USED
C-4	V-GROOVE PLANK

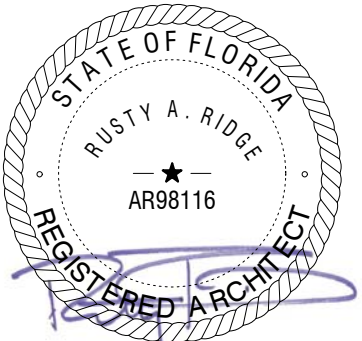
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PROJECT NUMBER
DCH22007

CLIENT:

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1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
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Cheddar's
SCRATCH KITCHEN

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Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
RCP DETAILS

A9.6

<p>FINISHES</p> <p>A. Steel towel finish shall be applied to all floor slabs in the building, unless otherwise noted.</p> <p>B. Light brown finish perpendicular to traffic shall be applied to all exterior walkways. A 3/4" transverse contraction joint shall be formed with a tool designed for that purpose at equal intervals not exceeding the width of the walkway. All edges adjoining the final ground line shall be rounded with a 1/4" edge. Expansion joints shall not exceed 20'.</p> <p>C. Concrete Sealer:</p> <ol style="list-style-type: none"> Step One, Concrete Clear Sealer: a. Concrete to be sealed must have aged a minimum of 28 days prior to sealer installation. b. Immediately prior to applying concrete sealer, the concrete must be thoroughly cleaned. The surface should be swept then scrubbed using rotary floor machine. The surface must be rinsed after cleaning until the rinse water is completely clean. After drying, it should be inspected closely, and additional or spot cleaning should be performed if necessary. c. Surfaces must be properly prepared as prescribed in manufacturer's instructions. Surrounding areas and adjacent surfaces must be masked or protected from overspray, spills, tracking, and equipment contact. The work area should be roped off and closed to traffic. d. Immediately prior to use, the liquid material should be thoroughly power-mixed as described in manufacturer's instructions. Application must be made full strength (un-thinned) at the coverage rate recommended and with equipment recommended by manufacturer's instructions. e. Base sealer must be applied thinly and uniformly. A wet edge should be maintained, and overlap controlled. Material should not be over-applied or allowed to puddle or collect in joint indentations. f. Base sealer must be allowed to dry completely, normally a minimum of 12 to 48 hours, before it is subjected to temperatures below 42 degrees Fahrenheit or to water from any source. Final Step, Clear Sealer: a. Immediately prior to use, the liquid material must be thoroughly power-mixed as described in manufacturer's instructions. Application must be made full strength (un-thinned) at the coverage rate recommended and with equipment recommended by manufacturer's instructions. b. Work the Sealer shall be applied thinly and uniformly utilizing a conventional fine mist sprayer per manufacturer's written instructions. While spraying clear sealer, broadcast Anti-Skid Floor Media additive using manufacturer's special application gun, with cover layer of hard tile sealer to coat surface. c. The final coat may be walked on the next day, but five days should elapse before the surface is subjected to heavy use or rough treatment. <p>D. Variation in concrete slabs shall not exceed 1/8" in ten feet from true grade.</p> <p>E. All exposed concrete, except palls, walkways and floor slabs, shall be rubbed finish, satisfactory to the Owner's Construction Manager. "White Washing" by use of seaphory mixed grout will not be permitted.</p> <p>F. SHOP DRAWINGS</p> <p>G. The Contractor shall prepare and submit for review shop drawings according to the requirements of the General conditions.</p> <p>H. Reinforcement</p> <p>A. Reinforcement shall be accurately placed and securely supported on metal or plastic chairs.</p>	<p>POINTING AND CLEANING</p> <p>A. Completely remove mortar daubs or splashes from exposed masonry surfaces before setting. Clean masonry surfaces, other than removing excess surface mortar, only after masonry has hardened. Leave surfaces free of mortar daubs, dirt, stains and discoloration, including scum from cleaning operations. Do not use metal tools and brushes for cleaning. Before cleaning permanent construction, clean sample panel and examine for discoloration or stain. If the sample panel is discolored or stained, check methods of cleaning to assure permanent masonry surfaces will not be damaged. Water-soak exposed surfaces and clean with "3030" or "SHURCLEAN" (proprietary masonry cleaning agents). Use cleaning agents in accord with manufacturer's instructions.</p> <p>POINTING AND CLEANING</p> <p>A. Wash masonry work with clean water.</p> <p>PROTECTION OF WORK</p> <p>A. Protect surfaces of masonry not being worked. When rain or snow is imminent, cover the tops of exposed masonry with a strong non-staining waterproof membrane will secured in place and in a manner that will prevent moisture from accumulating within unfinished wall. Make provisions to prevent damage by wind.</p> <p>SECTION 04220 - CONCRETE UNIT MASONRY</p> <p>1. SECTION INCLUDES</p> <p>A. Concrete unit masonry</p> <p>B. Horizontal masonry wall reinforcement</p> <p>C. Building in bolts, anchors, nailers, angles, inserts, conduits, piping, flashings, etc. furnished and located by other trades</p> <p>2. REFERENCE STANDARDS</p> <p>A. American Society for Testing Materials (ASTM)</p> <p>B. International Masonry Industry All-Weather Council (IMAC)</p> <p>3. MOCK-UP</p> <p>A. Construct masonry mock-up, 4 feet long by 4 feet wide, and height which includes masonry anchor accessories, sill flashings, corners and all typical conditions.</p> <p>B. Locate where directed by Owner.</p> <p>C. Mock-up may remain as part of the Work.</p> <p>4. MATERIALS</p> <p>A. Masonry Units: High pressure steam cured (air dried units will NOT be acceptable), load bearing, hollow units conforming to ASTM C90, Type 1, medium weight, load bearing solid units conforming to ASTM C90, Type 1, medium weight. Testing aggregates for drying shrinkage shall be as stipulated in ASTM C331. Units shall be of dimensions that will lay up to 8-inch modules. Units shall include special finishes. Miscellaneous: As shown on the drawings or as required to complete the work.</p> <p>B. Masonry Unit Sizes: Standard 8" x 8" x 16 inch and 4" x 8" x 16-inch units as shown on the drawings.</p> <p>5. ACCESSORIES</p> <p>A. Joint Reinforcement: Hohmann & Bernard, Inc., Fort Worth, Texas, "Lex-All Truss mesh", 3/16" side rails and galvanized No. 9 cross rods. Provide spacers as required for intersections. Widths shall be 2" less than total masonry thickness.</p> <p>B. Polyethylene tubing, 1/2 inch diameter with internal screen.</p> <p>C. Miscellaneous: As shown on the drawings or as required to provide masonry installations which are well tied (anchored) to building frame. Consult with Architect prior to bidding if clarification of this requirement is needed.</p> <p>6. MORTAR</p> <p>A. Type: ASTM C270 with minimum compressive strength of 1800 p.s.i., Type M or S; color - standard gray to match block. Masonry cement will not be allowed.</p> <p>B. Materials:</p> <ol style="list-style-type: none"> Portland Cement: ASTM C150, Type 1, one brand only. Hydrated Lime: ASTM C207, Type S Sand: Well screened, clean, hard, siliceous particles free from loam, alkali, soil, organic matter and other impurities; composed of grains of varying size which pass an 8-mesh screen, uniformly graded from coarse to fine. Water: City tap water. <p>D. GROUT (if shown on the drawings)</p> <p>A. Grout Mix for reinforced masonry: ASTM C476 with minimum compressive strength of 3,000 psi at 28 days. Provide coarse aggregate conforming to ASTM C404 (max. size 3/8") for coarse grout mix. Grout shall have slump of 10"-1/2" to 11 inches at time of placement.</p> <p>9. PRODUCT DELIVERY, STORAGE AND HANDLING</p> <p>A. Store mortar materials on dunage in a dry place. Masonry units stores above ground level platforms. Cover and protect units and accessories as necessary from elements.</p> <p>9. CONDITIONS</p> <p>A. Hot-Weather Installation: Masonry erected when the ambient air has a temperature of more than 50° F, in the shade, and has a relative humidity of less than 50 percent shall be protected from direct exposure to wind and sun for 48 hours after installation and rain for 12 hours after installation. Masonry surfaces shall be kept moist with water gently spraying the surface, covering work with burlap which is kept wet, or by other means. Well screened, clean, hard, siliceous particles free from loam, alkali, soil, organic matter and other impurities; composed of grains of varying size which pass an 8-mesh screen, uniformly graded from coarse to fine.</p> <p>C. Color: As noted otherwise on finish schedule on drawings.</p> <p>7. GROUT</p> <p>A. Type: Minimum compressive strength of 2500 psi; ASTM C476, Type M or S.</p> <p>8. PRODUCT DELIVERY, STORAGE AND HANDLING</p> <p>A. Store mortar materials on dunage in a dry place. Masonry units stores above ground level platforms. Cover and protect units and accessories as necessary from elements.</p> <p>9. CONDITIONS</p> <p>A. Hot-Weather Installation: Protect masonry, erected when ambient air temperature is more than 50° F, in the shade, and has a relative humidity of less than 50%, from direct exposure to wind and sun for 48 hr after installation, and rain for 12 hours after installation.</p> <p>B. Cold Weather Installation: Do not build upon frozen work. Before erecting masonry, take necessary precautions to prevent frost. If frost is present, use special methods or methods proposed to heat masonry materials and protect masonry from freezing. Do not lay masonry at temperatures below 35° F, unless authorized in writing.</p> <p>10. PREPARATION (MORTAR)</p> <p>Accurately measure and mix mortar materials with water to produce wettest workable consistency possible. Place mortar in final position within 2-1/2" after mixing; discard mortar not used or that has started to set within this time.</p> <p>11. SCAFFOLDING</p> <p>A. Provide scaffolding necessary for masonry work and make same available to other trades required to execute work in conjunction with masonry work.</p> <p>B. Design and engineering of formwork and scaffolding as well as its construction shall be the responsibility of the Contractor. Adequately shore block beams, and similar members to safely support all loads and lateral pressures liable to come on the construction. Provide clean-out openings at each vertical bar at bottom course or in foundation wall when wall is erected in more than 5-foot lifts.</p> <p>12. MASONRY CONSTRUCTION</p> <p>A. General: No unit having film of water or frost on its surfaces shall be laid. Masonry shall be laid plumb, true to line, with level courses accurately spaced. Bond pattern shall be kept uniform throughout. Corners and reveals shall be plumb and true. Vertical joints shall be shoveled tight. Each unit shall be adjusted to final position while mortar is still soft and plastic. Any unit that is disturbed after mortar has stiffened shall be removed and re-laid with fresh mortar.</p> <p>B. Laying Units: Do not wet before laying. Cut units with power masonry saws, either dry or wet cut. Lay units in a running bond so that vertical joints between units fall away from the center of the units in the next course below and in alignment from bottom to top of wall. Units shall be full bedded in mortar under both face shells. Fill all head-joints solidly with mortar for a distance in from the face of the unit or unit not less than the thickness of the longitudinal face shell. No cells shall be left open in the face-joints.</p> <p>C. Grouting (if shown on the drawings): Where shown on the drawings, pour interior grout courses, except those required to provide the opening, in full depth. Grout shall be placed in full depth. Grout lifts shall not exceed 4'-0". Shushing with mortar is not permitted. Grout shall be caused to flow into all voids and surround rebar. Puddle water shall be removed. Grout shall be placed in full depth. Grout lifts shall not exceed 4'-0". Shushing with mortar is not permitted. Grout shall be caused to flow into all voids and surround rebar. Puddle water shall be removed. Grout shall be placed in full depth. Grout lifts shall not exceed 4'-0". Shushing with mortar is not permitted.</p> <p>D. Cutting and Fitting: Use, wherever possible, full units of the proper size in lieu of cut units. Cut edges clean, true, and sharp. Carefully cut, form, or otherwise neatly make openings for electrical, plumbing, or other mechanical installations so that wall plates, cover plates, or escutcheons will completely conceal openings and will have bottoms in alignment with lower edge of masonry joints.</p> <p>E. Embedded Items: Point openings around flush-mounted electrical outlet boxes in wet locations flush with mortar including flush joint above box. Build in anchors, ties, wall plugs, accessories, flashings, pipe sleeves, and other items as the masonry work progresses. Anchors and ties fully embedded in mortar.</p> <p>F. Unfinished Work: Stop back for joints with continuing new work. Report to toothing only when specifically accepted. Before laying new work, remove loose mortar, and clean exposed joints; dampen surfaces of brick after cleaning.</p> <p>F. Finishing:</p> <ol style="list-style-type: none"> Type: Unless noted otherwise on drawing finish schedule: Clipped joints; mortar thoroughly compacted and pressed against edges of units. Tool when mortar is thumbprint hard. Width: Equal to difference between actual and nominal dimensions of units in either height or length; or average width of any three adjacent joints not less than 1/4 inch nor more than 3/4 inch. Vertical joints; same width except for inconspicuous variations required to maintain bond. 	<p>2. Width: Equal to the difference between the actual and nominal dimensions of the units in either height or length, but in no case shall the average width of any the same width except for inconspicuous variations required to maintain bond.</p> <p>13. POINTING AND CLEANING</p> <p>A. Completely remove mortar daubs or splashes from masonry surfaces that will be exposed before setting or hardening. All defects in joints of masonry to be exposed shall be raked out as necessary, filled with mortar, and tamped concrete. Masonry surfaces shall not be cleaned, other than removing excess surface mortar, until mortar in joints has hardened. Leave masonry surfaces clean, free of mortar daubs and dirt, and with tight mortar joints throughout.</p> <p>14. PROTECTION OF WORK</p> <p>A. Protect surfaces of masonry not being worked on at all times. When rain or snow is imminent, cover the tops of exposed masonry with a strong non-staining waterproof membrane will secured in place and in a manner that will prevent moisture from accumulating within the unfinished wall. Make adequate provisions during construction to prevent damage by wind.</p> <p>SECTION 04451 - SYNTHETIC STONE VENEER</p> <p>1. REFERENCE STANDARDS</p> <p>A. American Society for Testing Materials (ASTM): ASTM C39, C91, C150, C207, and C270</p> <p>B. Brick Institute of America (BIA): "Technical notes on brick construction"</p> <p>2. INTENT</p> <p>A. This specification generally outlines requirements for manufactured stone veneer installation. It is not intended to modify, amend, or otherwise change system manufacturer's specifications for uses intended; manufacturer's specifications govern.</p> <p>3. WARRANTY</p> <p>A. Provide manufacturer's standard lifetime warranty.</p> <p>4. MANUFACTURER</p> <p>A. The drawings were prepared, and portions of this specification written on the basis of using the products of various manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.</p> <p>5. MANUFACTURED UNITS</p> <p>A. Synthetic Stone - Manufacturer, patterns, blends, and colors as noted on drawings.</p> <p>B. Provided manufacturer's standard corner units at all exterior corners.</p> <p>6. MORTAR</p> <p>A. Type: Minimum compressive strength of 1800 psi; ASTM C270, Type S, non-staining. Materials:</p> <ol style="list-style-type: none"> Hydrated Lime: ASTM C207, Type S Sand: Brown well screened, clean, hard, siliceous particles free from loam, alkali, soil, organic matter and other impurities; composed of grains of varying size which pass an 8-mesh screen, uniformly graded from coarse to fine.
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<div>SECTION 06170 – LAMINATED VENEER, STRUCTURAL TIMBER</div> <div><div>1. SECTION INCLUDES</div><div>A. Laminated Veneer Lumber (LVL) framing members.</div><div>A. Hardware and connectors</div></div> <div><div>2. QUALITY ASSURANCE</div><div>A. Manufacturer Qualifications: Manufacturer experienced in Laminated Veneer Structural Timber production, and capable of providing field service representation during construction.</div></div> <div><div>3. REFERENCE STANDARDS</div><div>A. ASTM D2559 Standard Specification for Adhesives for Structural Laminated Wood Products for Use under Exterior (Wet Use) Exposure Conditions.</div><div>B. ASTM D5456 Specification for Evaluation of Structural Composite Lumber Products.</div><div>C. National Design Specification for Wood Construction (NDS).</div><div>D. Materials shall comply with ESR Report #ESR-2993.</div></div> <div><div>4. SUBMITTALS</div><div>A. Submit to Architect per SUBMITTALS Section for acceptance prior to start of fabrication. Show lumber combinations (ATC and AWPA combination symbols for identification), details, methods and sequences of assembly, erection diagrams and instructions for use in field.</div><div>A. Manufacturer's Product and Material Safety Data Sheets, for all specified products.</div><div>B. Shop Drawings: Submit data showing product components, including finish.</div></div> <div><div>5. MATERIALS</div><div>A. Basis for Design: RedBud RedLum Timber.</div><div>B. Douglas Fir, Larch or Hemlock, touch sanded, E = 2,066 psi, Fb = 2900 psi; sizes, shapes and profiles as indicated in Contract Documents.</div><div>C. Grade Slamps: All Redlum LVL materials shall comply with NES Report No. NER-481 or CMC Report No. 11161-R.</div><div>D. Hardware: Furnish connections for joining members to each other and/or supports.</div></div> <div><div>6. FABRICATION</div><div>A. LVL shall be manufactured in a plant listed in the above referenced reports under the supervision of a professional engineer. It shall be manufactured in a continuous process with all grain parallel with the length of the members.</div><div>B. LVL shall be manufactured in a continuous process from wood fiber with all strands oriented to the length of the member and then fed into a press. All members are to be free of finger or scarf joints.</div><div>C. Adhesives shall be of waterproof type conforming to the requirements of ASTM D2559.</div><div>D. Preservative Treatment: Pressure treat members or portions of members in contact with concrete or exterior to conform to AWPA standard C-28; retention 0.35 lb/cu ft. of wood.</div><div>E. Protection: Individually wrap each member</div></div> <div><div>7. STORAGE AND PROTECTION OF MATERIALS</div><div>A. Contractor receive, unload and store materials. Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer.</div></div> <div><div>8. ERECTION</div><div>A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.</div><div>B. General: Handle with non-marking slings. Erect in accord with accepted shop drawings.</div><div>1. Minor Misfits: Correction of minor misfits by moderate use of drift pins, and moderate amount of reaming, chipping or cutting is considered part of erection. Immediately report errors which prevent proper assembly of parts by these measures to Architect for authorization of corrective measures prior to assembly.</div><div>C. Install per the Contract Documents and manufacturer's recommendations. Holes, cuts or notches not shown on the contract documents shall not be permitted.</div></div> <div><div>9. PROTECTION OF COMPLETED WORK</div><div>A. Keep protective wrappings in place until members are enclosed within decking. Gradually bring initial building heat or cooling to desired level. To minimize checking, do not reduce relative humidity of building rapidly.</div></div> <div><div>SECTION 06192 – WOOD CHORD METAL TRUSSES</div><div><div>1. SECTION INCLUDES</div><div>A. Wood chord Metal Trusses</div><div>B. Bridging, bracing and anchorage</div><div>C. Framing for openings</div></div><div><div>2. QUALITY ASSURANCE</div><div>A. Manufacturer: Company specializing in manufacture of plywood web joists with 3 years minimum experience.</div><div>B. Design: Under direct supervision of Professional Engineer experienced in structural framing design. Verification of design of joists by complete calculations to be submitted as required herein.</div><div>C. These products shall be designed and manufactured to the standards set forth in the ICC ES Report No. ESR-1774.</div></div><div><div>3. SUBMITTALS:</div><div>A. Product Data: Submit fabricator's specifications and installation instructions for required work, covering lumber, metal plates, hardware, fabrication process, treatment (if any), handling and erection.</div><div>B. Shop Drawings: Submit shop drawings showing: species, sizes and stress grades of lumber to be used; span, camber configuration and spacing for each type of truss required; type, size, material, finish, design value and location of metal connector plates; and bearing and anchorage details.</div><div>1. Fabricator shall submit design analysis indicating loading, section modulus, assumed allowable stress calculations, and similar information needed for analysis and to ensure that trusses comply with design requirements.</div><div>2. Shop drawings shall be signed and stamped by a structural engineer licensed to practice in the state where trusses are to be erected.</div><div>D. The standards of the manufacturer for quality, engineering and fabrication shall govern the work of this section.</div></div><div><div>4. MANUFACTURER</div><div>A. The drawings were prepared and this specification written on the basis of using the products of the RedBud LLC, Boise, Idaho.</div></div><div><div>5. TRUSSES</div><div>A. Trusses shall be factory manufactured with steel webs, true pin connections and structural wood chords.</div><div>B. Top and Bottom Chords: Structural wood chord members shall be of machine stress rated lumber of approved grade and kiln dried to a maximum moisture content of 19%. Web Members: Accurately die dimensioned, electrically welded, cold rolled steel tubing having a minimum yield strength of 45,000 psi.</div><div>C. Connecting Pins and Bearing Members: Material and size as required by design. Refer to structural drawings for additional design requirements governing open web wood trusses.</div></div><div><div>6. HANDLING AND STORAGE</div><div>A. Protect trusses and accessories from damage when stored at the job site. Finished members shall be free of bends, twists or open joints. Replace warped, bowed or damaged trusses at no additional cost to the Owner.</div><div>B. Handle and install in a manner to prevent bending, warping, twisting or other damage. Store trusses in a vertical position and protect from weather.</div></div><div><div>7. INSTALLATION</div><div>A. Install joists in accord with manufacturer's instructions; true to line and level. Provide temporary bracing to position joists in place until permanently secured. Place permanent bridging, bracing and anchors to maintain joists straight and in correct position before installation of decking.</div><div>B. Any product specified elsewhere in these Specifications designed to be suspended by any means from plywood web joist shall be suspended from top flange of joist only except those specifically designated and detailed in Structural drawings to be applied to bottom flange of joist.</div></div><div><div>8. PROTECTION OF WORK IN PROGRESS</div><div>A. Temporary construction loads which cause member stresses beyond design limits are not permitted.</div></div><div><div>SECTION 06200 – FINISH CARPENTRY</div><div><div>1. SECTION INCLUDES</div><div>A. Finish carpentry items.</div></div><div><div>2. REFERENCES</div><div>A. AWI/AWMAC (QS) – Architectural Woodwork Quality Standards Illustrated; Architectural Woodwork Institute and Architectural Woodwork Manufacturers Association of Canada; 2006, 8th Ed., Version 2.0.</div><div>B. AWPA C2 – Lumber, Timber, Bridge Ties and Mine Ties Use – Preservative Treatment by Pressure Preservatives; American Wood-Preservers' Association; 2002.</div></div><div><div>3. QUALITY ASSURANCE</div><div>A. Perform work in accordance with AWI/Architectural Woodwork Quality Standards Illustrated, Custom grade.</div></div><div><div>4. DELIVERY, STORAGE, AND HANDLING</div><div>A. Protect work from moisture damage.</div></div></div></div>	<div>5. LUMBER MATERIALS</div> <div><div>A. Softwood Lumber:</div><div>1. Southern Yellow Pine #2, C&BTR</div><div>2. Texture: Surface smooth, both sides.</div></div> <div><div>B. Hardwood Lumber:</div><div>1. Poplar or Red Oak as indicated on the drawings</div><div>2. Texture: Surface smooth, both sides.</div></div>
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6. ADHESIVES

A. Adhesive: Type recommended by manufacturer to suit application.

7. FASTENERS

A. Hot dipped galvanized for exterior and high humidity locations, untreated steel elsewhere.

B. Concealed Joint Fasteners: Threaded steel.

8. FABRICATION

A. Shop assemble work for delivery to site, permitting passage through building openings.

B. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scrubbing and site cutting.

9. INSTALLATION

A. Set and secure materials and components in place, plumb and level.

B. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

10. ERECTION TOLERANCES

A. Maximum Variation from True Position: 1/16 inch.

B. Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.

11. SCHEDULE

A. Exterior: Provide the following trim types and species unless noted otherwise on drawings.

1. Standing and Running Trim:

a. Species and Grade: Western Red Cedar; WWP or WCLUB, B & Better – 1 & 2

b. Clear Vertical Grain.

B. Texture: Surfaced.

B. Interior: Provide the following trim types and species unless noted otherwise on drawings.

1. Standing and Running Trim and Rails – Transparent Finish:

a. Quality Standard: Comply with AWI 300 Premium Grade

b. Backs: Back out or groove backs of flat trim members, kerf backs of other wide flat members except for members with ends exposed in finished work.

c. Casings: Assemble in plant except where limitation of access to place of installation requires field assembly.

d. Mouldings:

1. Assemble in plant to maximum extent possible

2. Miter corners in plant and prepare for field assembly with bolted fittings designed to pull connections together.

2. Wood Species: Red Oak

2. Standing and Running Trim and Rails – Opaque Finish:

a. Quality Standard: Comply with AWI 300 Custom Grade

b. Backs: Back out or groove backs of flat trim members, kerf backs of other wide flat members except for members with ends exposed in finished work.

c. Casings: Assemble in plant except where limitation of access to place of installation requires field assembly.

d. Mouldings:

1. Assemble in plant to maximum extent possible

2. Miter corners in plant and prepare for field assembly with bolted fittings designed to pull connections together.

3. Wood Species: Poplar

3. Wood Shelves:

a. Solid wood for Opaque Finish (lumber boards, edge-glued where required to produce widths indicated)

b. Produce widths indicated:

1. Grade: AWI 300 Custom Grade

2. Lumber Species: Poplar

2. Lumber product for Transparent Finish (wood veneer laminated over various cores):

1. Grade: AWI 300 Custom Grade

2. Lumber Species: Poplar.

3. Matching of adjacent veneer leaves: Book Match

4. Veneer material within panel face: Running Match

5. Edge Treatment: Lumber matching wood veneer face for species and cut.

6. Edge Treatment: Wood veneer matching veneer face for species and cut.

3. BOARD INSULATION MATERIALS

A. Foundation Insulation: Expanded Polystyrene Board Insulation: ASTM C 578; with the following characteristics:

1. Flame Spread Index: 75 or less, when tested in accordance with ASTM E 84.

2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E 84.

B. Smoke Developed Index: 165, when tested in accordance with ASTM E 84.

C. Board Size: 48 x 96 inch.

D. Board Thickness: 1 inch.

E. Water Absorption: 4 percent by volume, maximum, when tested in accordance with ASTM D 2842.

F. Thermal Conductivity (k factor) at 25 degrees F: 0.28.

G. Approved manufacturers:

a. AFM Corp: www.afm-control.com.

b. Diversifloor Products: www.diversifloor.com.

c. Grace Construction Products: www.graceconstruction.com.

4. LUMBER MATERIALS

A. Hardwood Lumber: NHLA; Graded in accordance with AWI/AWMAC Architectural Woodwork Quality Standards Illustrated, Grade 1/Premium; average moisture content of 5-10 percent; species as follows:

1. Exposed Surfaces: Species – Red Oak.

2. Semi-Exposed Surfaces: Species – Red Oak.

3. Concealed Surfaces: Species poplar.

5. PANEL MATERIALS

A. Exposed Surfaces: NIST PS 1; APA A-A Grade, plain-sliced Red Oak face veneer, interior rated adhesives, core of particleboard, medium density fiberboard, or engineered combination, thickness as indicated.

B. Hardboard: AHA A1354; Pressed wood fiber with resin binder, Class 1 – Tempered, 1/4 inch thick, smooth two sides (S2S); use for drawer bottoms, dust panels, and other components indicated on drawings.

6. LAMINATE MATERIALS

A. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications and as indicated.

7. ACCESSORIES

A. Adhesive: Type recommended by fabricator to suit application.

B. Fasteners: Size and type to suit application.

C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel, or chrome-plated finish in exposed locations.

D. Concealed Joint Fasteners: Threaded steel.

E. Grommets: Standard plastic, painted metal, or rubber grommets for cut-outs, in color to match adjacent surface.

8. HARDWARE

A. Adjustable Shelf Supports: Standard side-mounted system using surface mounted metal shelf clips and shelf brackets, oil rubbed finish, with nominal 1 inch spacing adjustment.

B. Drawer and Door Pulls: Top Knobs M1165 Nouvelle II Square Black Knobs.

C. Cabinet Locks: First Watch 1385-VB, Keyed cylinder, master keyed, steel with oil rubbed bronze finish.

D. Catches: L-EP592-P, 15 lb Double Magnetic Catch, Bronze.

E. Drawer Slides:

1. Type: Standard extension.

2. Static Load Capacity: Commercial grade.

3. Mounting: Side mounted.

4. Shape: Integral type.

F. Hinges: Wurth FE12-STB 1 3/4" Piano Hinge, Statuary Bronze.

9. FABRICATION

A. Cabinet Style: Flush overlay.

B. Drawer Construction Technique: Dovetail joints.

C. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.

D. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.

E. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scrubbing and site cutting.

10. FABRICATION

F. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly level corners. Locate corner butt joints minimum 2 feet from sink cut-outs.

F. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly level corners. Locate corner butt joints minimum 2 feet from sink cut-outs.

11. WARRANTY

A. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly level corners. Locate corner butt joints minimum 2 feet from sink cut-outs.

F. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly level corners. Locate corner butt joints minimum 2 feet from sink cut-outs.

12. DELIVERY, STORAGE, AND HANDLING

A. Protect work from moisture damage.

 6. Matching Wood Grain: Comply with requirements of quality standard for specified Grade and as follows: 1. Provide center matched panels at each elevation. 2. Provide sequence of matched panels at each elevation. H. Mechanically fasten back splash to countertops with steel brackets at 16 inches on center. 10. INSTALLATION A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level. B. Use fixture attachments in concealed locations for wall mounted components. C. Use concealed joint fasteners to align and secure adjoining cabinet units and countertops. D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose. E. Secure cabinets to floor using appropriate angles and anchors. F. Counterinstall and expedite the performance of the sheet metal work and for coordinating its installation with roofing work and other contractors. 11. ADJUSTING A. Adjust installed work. B. Adjust moving or operating parts to function smoothly and correctly. SECTION 06620 – SOLID NON-POROUS SHEET AND SHAPE PRODUCTS 1. REFERENCE STANDARDS A. American Society of Testing Materials (ASTM): ASTM E84 B. Underwriter's Laboratories (UL) 2. SUBMITTALS A. Submit Shop Drawings to Architect, based on details shown on the Drawings. Show detailed parameters, dimensions, adjacent construction, materials, thicknesses, fabrication details, required clearances, tolerances, colors, finishes, methods of support, integration of components, and anchors. Detail to serve as installation drawings. Architect's acceptance is required prior to start of fabrication and/or shipment. 3. COORDINATION OF WORK A. Flashing and Roof Sheet Metal: Flashing and sheet metal work in conjunction with roofing, specified in FLASHING AND SHEET METAL, shall be installed by the roofing contractor who applies the roofing or by a subcontractor approved in writing or employed by him. In the latter case, roofing contractor shall be responsible for adequate coordination and expediting the performance of the sheet metal work and for coordinating its installation with roofing work and other contractors. 4. WARRANTY A. Provide manufacturer's standard ten-year warranty against manufacturing defects. 5. PRODUCTS A. Sheet Products (countertops): Manufacturer noted on finish schedule in drawings; 3/8 inch thick sheets, continuous length with bull-nose edge with integral back and side splash, and 3/4 inch exterior grade APA Fir plywood backing. 6. PATTERNS AND COLORS A. As noted on finish schedule in drawings. 7. INSTALLATION A. Contractor is responsible for dimensions, detailing, fabrication, fitting, and alignment of work of this section. B. Protect components during shipping and delivery by appropriate boxing, crating, etc. Protect components from storage damage by retaining shipping protection in place until installation. C. Verify that substrate is ready to receive work and dimensions are as indicated on the drawings prior to fabrication. Beginning of fabrication means dimensions have been verified and acceptance of substrates. D. Install fabrications in accord with accepted shop drawings and fabricator's instructions. DIVISION 07 – THERMAL AND MOISTURE PROTECTION SECTION 07212 – BOARD AND BATT INSULATION 1. SECTION INCLUDES A. Board insulation at cavity wall construction, perimeter foundation wall, and underside of floor slabs. B. Batt insulation in exterior wall and ceiling construction. C. Batt insulation for filling perimeter window and door shim spaces and crevices in exterior wall and roof. 2. REFERENCES A. ASTM C 578 – Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2005A. B. ASTM C 665 – Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2001. C. ASTM C 1289 – Standard Specification for Faced Rigid Cellular Polysocyanurate Thermal Insulation Board; 2006. D. ASTM D 2842 – Standard Test Method for Water Absorption of Rigid Cellular Plastics; 2001. E. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials; 2005. F. ASTM E 136 – Standard Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degrees C; 2004. 3. BOARD INSULATION MATERIALS A. Foundation Insulation: Expanded Polystyrene Board Insulation: ASTM C 578; with the following characteristics: 1. Flame Spread Index: 75 or less, when tested in accordance with ASTM E 84. 2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E 84. B. Smoke Developed Index: 165, when tested in accordance with ASTM E 84. C. Board Size: 48 x 96 inch. D. Board Thickness: 1 inch. E. Water Absorption: 4 percent by volume, maximum, when tested in accordance with ASTM D 2842. F. Thermal Conductivity (k factor) at 25 degrees F: 0.28. G. Approved manufacturers: a. AFM Corp: www.afm-control.com. b. Diversifloor Products: www.diversifloor.com. c. Grace Construction Products: www.graceconstruction.com. 4. BATT INSULATION MATERIALS A. Batt Insulation: ASTM C 665; preformed batt; friction fit, conforming to the following: 1. Compatibility: Non-combustible, when tested in accordance with ASTM E 136, except for facing, if any. 2. Thermal Resistance: R of 19 in walls, 30 in roof. 3. Facing: aluminum foil or kraft paper faced, one side. B. Approved manufacturers: a. Owens Corning Corporation: www.owenscorning.com. b. Johns Manville Corporation: www.jm.com. 5. ACCESSORIES A. Tape: Bright aluminum self-adhering tape, mesh reinforced, 2 inch wide. B. Insulation Fasteners: Impaling clips of unfinished steel with washer retainer and clips, to be adhered to surface to receive insulation, length to suit insulation thickness and substrate, capable of securely and rigidly fastening insulation in place. C. Adhesive: Type recommended by insulation manufacturer for application. 6. BOARD INSTALLATION AT FOUNDATION PERIMETER A. Install boards vertically on foundation perimeter. B. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane. 7. BOARD INSTALLATION UNDER CONCRETE SLABS A. Place insulation under slabs on grade after base for slab has been compacted. B. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane. C. Prevent insulation from being displaced or damaged while placing vapor retarder and placing slab. 8. BATT INSTALLATION A. Install insulation in accordance with manufacturer's instructions. B. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation. C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids. D. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation. E. Install insulation in walls with faced side facing the building interior. F. Tape insulation batts in place. G. Tape seal butt ends, lapped flanges, and tears or cuts in membrane. SECTION 07260 – WEATHER BARRIERS 1. SECTION INCLUDES A. Vapor Barrier must have all of the following qualities: 1. Permeance less than 0.01 Perm [grams/(ft² • hr • in.Hg)] per ASTM F 1249 or ASTM E 96 2. ASTM E 1745 Class A B. Air Barriers: Materials and to stop passage of air through exterior walls, joints between exterior walls and roof, and joint around frames of openings in exterior walls to comply with ICC-ES Acceptance Criteria AC-38. 2. SUBMITTALS A. Vapor Barrier must have all of the following qualities: 1. Permeance less than 0.01 Perm [grams/(ft² • hr • in.Hg)] per ASTM F 1249 or ASTM E 96 2. ASTM E 1745 Class A B. Air Barriers: Materials and to stop passage of air through exterior walls, joints between exterior walls and roof, and joint around frames of openings in exterior walls to comply with ICC-ES Acceptance Criteria AC-38. 3. COORDINATION A. Contractor shall be responsible for dimensions, detailing, fabrication, fitting and alignment of the work of this Section. 4. MANUFACTURER A. The drawings were prepared and this Specification written on the basis of using the products of James Hardie Building Products, Inc., Mission Viejo, CA. B. Substitutions: See Section 01500 – Product Requirements. C. Roof Hatch: Bilco Co; www.bilco.com. D. Roof Hatch Safety Grab Bars: LadderPort; www.ladder-port.com. 5. COMPONENTS A. Fiber cement trim, fascia, siding, and accessories shall be composed of autoclaved, non-asbestos, fiber-cement complying with the provisions of ASTM C1186. Products shall provide the following minimum properties: Modulus of Rupture (equilibrium) >1450 psi, ASTM C1185; Density 80 pcf ASTM C1185; Flame Spread/Smoke Development 0/0 ASTM E84. | B. Refer to Finish Schedule on drawings for specific products, finish, sizes, etc., for all Fiber cement trim, fascia, and siding products used on project. C. Factory Primer: Provide factory applied universal primer. D. Texture: Smooth 9. FASTENERS A. Concealed, galvanized, corrosion resistant, type and size required by design. 10. JOINT SEALANTS A. As specified in SEALANTS AND CAULKING 11. HANDLING A. Perform in a manner to prevent bending, warping, twisting or other damage. All material shall be clean and straight. Damaged or bent materials shall not be used. 12. STORAGE A. Store units on raised support and protect from the weather. 13. WORKMANSHIP A. Use only skilled and experienced personnel. All workmanship shall be equal to the best practice of modern siding installation. 14. ERECTION A. Erect in complete accord with approved shop drawings and manufacturer's written instructions. Use full length panels whenever possible to minimize end joints. SECTION 07530 – ELASTOMERIC MEMBRANE ROOFING 1. SECTION INCLUDES A. Elastomeric roofing membrane: mechanically fastened conventional application. B. Insulation, flat and tapered. 2. REFERENCES A. ASTM C 1289 – Standard Specification for Faced Rigid Cellular Polysocyanurate Thermal Insulation Board; 2006. B. NRCA ML104 – The NRCA Roofing and Waterproofing Manual; National Roofing Contractors Association; Fifth Edition, with interim updates. C. UL (RMSD) – Roofing Materials and Systems Directory; Underwriters Laboratories Inc.; current edition. 3. QUALITY ASSURANCE A. Perform work in accordance with NRCA Roofing and Waterproofing Manual and manufacturer's instructions. 4. ENVIRONMENTAL REQUIREMENTS A. Do not apply roofing membrane during unsuitable weather. B. Do not apply roofing membrane when ambient temperature is below 40 degrees F or above 110 degrees F. C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring. D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be waterproofed the same day. 5. WARRANTY A. Provide manufacturer's standard written full roofing system repair and/or replacement 15-year NOL warranty with no additional cost, covering materials and labor. Warranty shall include loss of consequential damages due to failure of the roof system and contain no exclusions for ponding water or biological growth. Upon warranty inspection and acceptance of the roof, the contractor shall be turned over to the Contractor on behalf of Owner by a Manufacturer's Quality Assurance Specialist. 6. APPROVED MANUFACTURERS A. IB Roofing Systems, www.ibroof.com B. Duro-Last Roofing, www.duro-last.com 7. ROOFING A. Approved Elastomeric Membrane Roofing Systems: 1. IB Roofing Systems, 60 mil PVC Single ply, PVC roofing system, to include manufacturer's decking and insulation preparation, base flashings, fasteners and flashing and trip to comply with recommendations in SMACNA "Architectural Sheet Metal Manual" that apply to design, dimensions and metal. 2. Duro-Last, 60 mil PVC Single ply, PVC roofing system, to include manufacturer's decking and insulation preparation, base flashings, fasteners and flashing accessories. B. Roofing Assembly Requirements: 1. Roof Covering External Fire-Resistance Classification: UL Class A 2. Insulation Thermal Value (R), minimum: R-30; provide insulation of thickness required. C. Acceptable Installation Types: 1. 2 layers of 2-1/2 – inches polysocyanurate board run perpendicular to minimize joint alignment. 2. ASTM D 4586 – Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2005. 3. ASTM D 4586 – Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2005. 4. SMACNA (ASMM) – Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors' National Association; 2003. 8. ACCESSORIES A. All roofing components used at roof penetrations shall be provided by approved manufacturer per their standards, written installation requirements and warranty requirements. 9. EXAMINATION A. Verify that roof openings, curbs, and penetrations through roof are solidly set. 10. INSULATION – UNDER MEMBRANE A. Roof insulation shall be installed with approved fasteners and distribution plates placed according to the manufacturer's most recent published specifications for the use under the manufacturer's system and for issuance of the warranty. 11. ATTACHMENT OF INSULATION A. Mechanically fasten insulation to deck in accordance with roofing manufacturer's instructions. C. Stagger insulation boards 50% from row to row. D. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof. E. Do not apply more insulation than can be covered with membrane in same day. 12. MEMBRANE APPLICATION A. Install the roofing system to comply with manufacturer's most recent published specifications. 13. INSTALLATION A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching. C. Mechanical Attachment: Apply membrane and mechanical attachment devices in accordance with manufacturer's instructions. D. On all parapet locations, wrap parapet with new pre-manufactured parapet flashings by manufacturer and terminate on exterior of wall. E. Around roof penetrations, seal flanges and flashings with flexible flashing. 14. PROTECTION A. Protect installed roofing and flashings from construction operations. B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials. SECTION 07811 – SHEET METAL ROOFING 1. SECTION INCLUDES A. Prefinished, prefabricated structural standing seam roof system with continuous interlocking seams with clips, fasteners, closures, and sealants as necessary to meet design criteria and ensure weathertight installation. B. Color coordinated hip, gable, and valley flashings, ridge and peak caps, eave and shelf drips, and counterflashings. 2. REFERENCES A. SMACNA (ASMM) – Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors' National Association; 2003. B. AISI: "Steel Construction Manual" American Institute of Steel Construction. C. AISI: "Cold Form Steel Design Manual" American Iron and Steel Institute. D. ASTM A792-89: Standard Specification for Steel Sheet, Aluminum-Zinc Alloy Coated by the Hot Dip Process, General Requirements. 3. COMPONENTS A. Copings and Gravel Guards 1. Architectural Products Co; Product Type AP Standard Coping: www.archprod.com. 2. W.P. Hickman Co; Product Permasnap Coping: www.wph.com. 3. MIM Systems Corp; Product Snap-Lok Coping: www.mimsystems.com. B. Gutter Supports: See Section 01500 – Product Requirements. C. Roof Hatch: Bilco Co; www.bilco.com. D. Roof Hatch Safety Grab Bars: LadderPort; www.ladder-port.com. 4. COPINGS A. Copings: Formed aluminum, 0.050 thick with 6" wide concealed joint covers and continuous hold down clips. Paint grip finish. 1. Color as scheduled on the drawings. |

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DARDEN RESTAURANTS, INC.
7000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

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- B. Roof Hatches: Factory-assembled steel frame and cover, complete with operating and release hardware; for Ladder Access: Single leaf; 30 by 36 inches. (Note: No LU-1 Safety Post required when LadderPort cage and gate are provided at Roof Hatch).
1. Frames/Covers: Extruded aluminum curb and frame with integral cap flashing to receive roof flashings; extended bottom flange to suit mounting.
- a. Material: Galvanized steel, 14 gage, 0.0747 inch thick.
- c. Finish: Factory prime paint.
- d. Insulation: 1 inch rigid glass fiber, located on outside face of curb.
2. Metal Covers: Flush, insulated, hollow metal construction.
- a. Capable of supporting 40 psf live load.
- b. Material: Galvanized steel, outer cover 14 gage, 0.0747 inch thick, liner 22 gage, 0.03 inch thick.
- c. Finish: Factory prime paint.
- d. Insulation: 1-inch thick rigid glass fiber.
- e. Gasket: Neoprene, continuous around cover perimeter.
3. Hardware: Steel, zinc coated and chrome plated, unless otherwise indicated or required by manufacturer.
- a. Lifting Mechanisms: Compression spring operator with shock absorbers that automatically opens upon release of latch; capable of lifting covers despite 10 psf load.
- b. Hinges: Heavy duty pintle type.
- c. Hold open arm with vinyl-coated handle for manual release.
- d. Latch: Upon closing, engage latch automatically and reset manual release.
- e. Manual Release: Pull handle on interior.
- f. Locking: Padlock hang on interior.
4. Roof Hatch Grab Bar and Gate LadderPort Caged Roof Hatch Grab Bar and Gate.
- a. Roof Hatch Safety Grab Bar kit shall be fabricated from welded heavy mechanical steel, utilizing formed steel, laser cut side rails.
- b. Main mounting bolts shall be stabilized by close tolerance heavy tube steel.
- c. Hatch handles shall be of height and distance apart to meet OSHA specifications.
- d. Hand stops on top of handrails shall be included.
- e. Entire assembly shall be powder-coated safety yellow.
- f. Hatch kit shall include fasteners, drills, and seal for installation.
- g. Handles shall be adjustable for all standard hatch widths 24" to 48".

4. INSTALLATION

- A. Install components in accordance with manufacturer's instructions.
- B. Provide blocking in walls as required. Adjust bracket lengths to accommodate different wall elevations as required.

SECTION 07712 – RAINWATER DISPERSAL SYSTEM

** NOTE TO SPECIFIER ** Rainhandler, Rain Dispersers.

This section is based on the products of Savetime Corporation, located at:
2710 North Ave. Bridgeport, CT 06604.
Tel: (800) 942-3004.
Fax: (800)606-2028.
Email: info@rainhandler.com

Web:

The Rainhandler gutter is a state-of-the-art rain dispersal system invented by an M.I.T. chronological engineer. Now improved with three more patents, it provides superior dispersal and strength.

For two decades thousands of American homeowners have replaced messy gutters, unsafe gutters and downspouts by installing the modern Rainhandler® systems... the proven and practical system for rainwater dispersal.

U.S. Patents 4646488, 5261195, 5261196.

Product availability, pricing, and further technical information are available directly from SAVETIME CORP or through local distributors/installers throughout the United States and Canada. For more information, call (800) 942-3004

1. SECTION INCLUDES

- A. Rooftop Rain Water Dispersal System.

2. REFERENCES

- A. NRCA Roofing and Waterproofing Manual.
- B. ASTM B 209/B 209M – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate, 2004.

3. SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
- Preparation instructions and recommendations.
 - Storage and handling requirements and recommendations.
 - Installation methods and product limitations
- C. Shop Drawings:
- Provide large scale shop drawings for fabrication, installation and erection of all parts of the work.
 - Provide plan, elevation and section views of each product specified, and details of anchorages, connections and accessory items.
- D. Test Reports: Provide test reports for rain dispersal rates, static load capabilities, and corrosion resistance.
- ** NOTE TO SPECIFIER ** Delete selection samples if colors have already been selected.
- E. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

4. QUALITY ASSURANCE

- A. Manufacturer Qualifications: Single manufacturer specializing in rain dispersal systems must provide primary materials and product specified, two complete sets of color chips acceptable to the manufacturer of primary materials and not conflict with warranty terms or conditions.
- B. Installer Qualifications: Must be a licensed, insured contractor with demonstrated skills in roofing and related work. Must satisfy manufacturer as to complete understanding of the scope and details of project.

5. DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in unopened, factory labeled packages. Store and handle in compliance with manufacturer's recommendations. Store under cover and protect from damage.

6. PRODUCT CONDITIONS

- A. Where applicable, maintain environmental conditions within limits recommended by manufacturer for satisfactory results. Do not install products under environmental conditions outside manufacturer's limits.
- B. Substrates: Process with work only when roof, soffit and fascia construction is complete.
- C. WARRANTY
- A. At project closeout, provide to Owner or Owner's representative a copy of the manufacturer's standard warranty form outlining the terms and conditions of the 25-year limited warranty against manufacturing defects.

8. MANUFACTURERS
- A. Acceptable Manufacturer: Rainhandler, which is located at: 2710 North Ave. , Bridgeport, CT 06604; Toll Free Tel: 800-942-3004; Tel: 203-382-2991; Web: www.rainhandler.com

** NOTE TO SPECIFIER ** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

9. RAIN WATER DISPERSAL SYSTEM
- A. Rainhandler Roof Rain Water Dispersal System: Run-off water management system with:
- Lower: 0.032 inch (0.8mm) 3105 Alloy Aluminum, Temper H14, in 5-foot long sections, with six equally spaced cross spacers fabricated from 0.060 inch (1.5mm) 3105 alloy aluminum, temper H14, complying with ASTM B 209/B 209M.
 - Finish: Satin Black Baked Enamel

10. ACCESSORIES

- A. Drip Edge Lettering (DEE): For directing roof runoff to the center of the Rainhandler when the drip edge along the eave does not extend a minimum of 1 1/2 inches (38mm) from the fascia.

1. Material: 0.032 inch (0.8mm) 3105 Alloy Aluminum, Temper H14, complying with ASTM B 209/B 209M.

2. Mounting: Mount to fascia with provided screws as applicable to project needs and as shown on contract drawings.

3. Width: 2 inches (51mm).

4. Finish: Satin Black Baked Enamel.

- B. Angled Fascia Adapters: For repositioning of the Rainhandler Bracket relative to the fascia and adjustment of the mounting plane to plumb in applications in which the fascia is perpendicular to the roof.

1. Pitch: 4:12

2. Material: 0.050 inch (1.3mm) 3105 Alloy Aluminum, Temper H14, complying with ASTM B 209/B 209M.

3. Finish: Satin Black Baked Enamel

- C. Mounting Brackets: Provide manufacturer's standard mounting brackets designed specifically for application of rain handling systems.

** NOTE TO SPECIFIER ** Select material, 0.080 inch for heavy winter conditions. Delete one of the next two paragraphs.

1. Material: 0.080 inch (2.0mm) 3105 Alloy Aluminum, Temper H14, complying with ASTM B 209/B 209M. Use where severe winter conditions exist.

** NOTE TO SPECIFIER ** Select FINISH to match. Delete two of the next three paragraphs.

2. Finish: Satin Black Baked Enamel

- D. Screws: Aluminum hex head #2 Phillips drive sheet metal screws, heads pointed to match system, as provided by the manufacturer.

1. 10-18 x 1/2 inch (13mm) screws for mounting to fascia.

2. 8-32 x 1/4 inch (6mm) self-tapping screws to attach components to each other.

11. INSTALLATION

- A. Install in accordance with manufacturer's instructions except where more restrictive requirements are specified in this Section.

- B. Install Rainhandler units plumb, level, in alignment and plane without warp or rack. Screw securely in place, but do not over-tighten. Always mount the bottom edge of the fascia. Must be a minimum of 3 1/2 inches (89mm) below drip edge.

- C. Install Rainhandler brackets against plumb fascia. Bracket pitches a nominal 8 degrees down away from fascia. Aluminum shims or washers may be used to compensate for fascia out of plumb.

** NOTE TO SPECIFIER ** Delete the next paragraph if DOORBELLA is not specified.

** NOTE TO SPECIFIER ** Delete the next paragraph if DRIP EDGE EXTENDER is not specified.

- D. Snug drip edge extender tight against any projecting roof edge. Where no projections exist, align even with roof edge. Screw into fascia with 1/2 inch (13mm) screws (provided).

12. ADJUSTMENT AND PROTECTION

- A. Adjust components where necessary to achieve correct operation.

- B. Provide temporary protection at all times during the course of the work to ensure the work of this Section is not damaged in any way at time of final acceptance.

- C. Inspect all work, and touch-up, repair or replace damaged products before Substantial Completion.

SECTION 07900 – JOINT SEALERS

1. SECTION INCLUDES

- A. Sealants and joint backing.

2. ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

3. SEALANTS

- A. Sealants and Primers – General: Provide only products having lower volatile organic compound (VOC) content than required by the more stringent of the South Coast Air Quality Management District Rule No.1108.

- B. General Purpose Interior Sealant: Polyurethane; ASTM C 920, Grade NS, Class 25, Uses M, G, and A, single component.

1. Color: Standard colors matching finished surfaces.

2. Applications: Use for:

- a. Control, expansion, and soft joints in masonry.

- b. Joints between concrete and other materials.

- c. Joints between metal frames and other materials.

- d. Under exterior door sills.

- e. Other exterior joints for which no other sealant is indicated.

- C. General Purpose Interior Sealant: Acrylic emulsion latex; ASTM C 834, Type OP, Grade NF single component, paintable.

1. Color: Standard colors matching finished surfaces.

2. Applications: Use for:

- a. Interior wall and ceiling contact joints.

- b. Joints between door and window frames and wall surfaces.

- c. Other interior joints for which no other type of sealant is indicated.

- D. Restroom/Tile Sealant: White silicone; ASTM C 920, Uses I, M and A; single component, mildest restraint.

1. Applications: Use for:

- a. Joints between plumbing fixtures and floor and wall surfaces.

- E. Interior Floor Joint Sealant: Polyurethane, self-leveling; ASTM C 920, Grade P, Class 25, Uses I, M and A, single component.

1. Color: Clear.

2. Applications: Use for:

- a. Equipment sealant in Food Service areas.

4. ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.

- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.

- C. Joint Backing: Round foam not compatible with sealant; ASTM D 1667, closed cell PVC; oversized 30 to 50 percent larger than joint width.

- D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

5. PREPARATION

- A. Remove loose materials and foreign matter which might impair adhesion of sealant.

- B. Clean and prime joints in accordance with manufacturer's instructions.

- C. Perform preparation in accordance with manufacturer's instructions and ASTM C 1193.

- D. Protect elements surrounding the work of this section from damage or disfigurement.

6. INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

- B. Perform installation in accordance with ASTM C 1193.

- C. Measure joint dimensions and size joint backeners to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer.

- D. Install bond breaker where joint backing is not used.

- E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.

- F. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.

- G. Tool joints concave.

SECTION 08 – DOORS AND WINDOWS

SECTION 08110 – STEEL DOORS AND FRAMES

1. SECTION INCLUDES

- A. Steel doors and frames.

- B. Steel frames for wood doors.

- C. Thermally insulated steel doors.

2. REFERENCES

- A. ANSI/ICC A117.1 – American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2003

- B. ANSI A250.3 – Test Procedure and Acceptance Criteria for Factory-Applied Finish Painted Steel Surfaces for Steel Doors and Frames; 1999.

- C. ANSI A250.8 – SDI-100 Recommended Specifications for Standard Steel Doors and Frames; 2003.

- D. ASTM A 653/A 653M – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Inner Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2005a.

- E. DII A115 Series – Specifications for Steel Doors and Frame Preparation for Hardware; Door and Hardware Institute; 2000 (ANSI/DHI A115 Series).

3. SUBMITTALS

- A. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and identifying location of different finishes, if any.

4. MANUFACTURERS

- A. Steel Doors and Frames:

1. Asso Abloy Ceco: www.assobloydss.com.

2. Steelcraft: www.steelcraft.com.

5. DOORS AND FRAMES

- A. Requirements for All Doors and Frames:

1. Accessibility: Comply with ANSI/ICC A117.1.

2. Door Top Closures: Flush with top of faces and edges.

3. Door Edge Profile: Beveled on both edges.

4. Door Texture: Smooth faces.

5. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.

6. Hardware Preparation: In accordance with DHI A115 Series, with reinforcement welded in place, in addition to other requirements specified in door grade standard.

7. Finish: Factory primed, for field finishing.

6. STEEL DOORS

- A. Exterior Doors:

1. Grade: ANSI A250.8 Level 3, physical performance Level A, Model 2, seamless.

2. Core: Polystyrene foam; thermally insulated; Minimum R-1.84 per EEC for opaque doors in Zones 1 through 4.

3. Galvanizing: All components hot-dipped zinc-inn alloy-coated (galvannealed) in accordance with ASTM A 653/A 653M, with manufacturer's standard cooling thickness.

- B. Interior Doors, Non-Fire-Rated:

1. Grade: ANSI A250.8 Level 2, physical performance Level B, Model 1, full flush.

2. Thickness: 1-3/4 inches.

7. STEEL FRAMES

- A. General:

1. Comply with the requirements of grade specified for corresponding door.

- a. Frames for Wood Doors: Comply with frame requirements specified in ANSI A250.8 for Level 1, 16 gage

2. Finish: Same as for door.

- B. Exterior and Interior Door Frames: Fully welded.

8. FINISH MATERIALS

- A. Primer: Rust-inhibiting, door manufacturer's standard.

9. INSTALLATION

- A. Install in accordance with the requirements of the specified door grade standard and NAAM/HMMA 840.

- B. Coordinate frame anchor placement with wall construction.

- C. Coordinate installation of hardware.

SECTION 08120 – FRP DOORS

1. SECTION INCLUDES

- A. Heavy duty, chemical resistant, Fiberglass Reinforced Polyester doors; flush configuration; non-rotated and acoustical.

2. DELIVERY, STORAGE, AND HANDLING

- A. Package, deliver and store doors in accordance with specified quality standard.

- B. Accept doors on site in manufacturer's packaging. Inspect for damage.

- C. Protect doors with resilient packaging. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with linted sealer if stored more than one week. Break seal on site to permit ventilation.

3. WARRANTY

- A. Provide manufacturer's warranty for the life of the installation.

- B. Include coverage for delamination of FRP, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

5. MANUFACTURERS

- A. Special-Life or approved equal.

- B. Color: Manufacturer's standard "Dark Bronze"

- C. Type: SL-17 FRP Flush Door in sizes as noted on plans.

B. DOOR CONSTRUCTION

- A. Fabricate doors in accordance with door quality standard specified.

- B. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

- D. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

1. Exception: Doors to be field finished.

- E. Provide edge clearances to comply with ANSI Quality Standards Illustrated Section 1700.

9. INSTALLATION

- A. Install doors to comply with manufacturer's instructions and specified quality standard.

1. Use machine tools to cut or drill for hardware.

- C. Coordinate installation of doors with installation of frames, hardware and glazing.

10. INSTALLATION TOLERANCES

- A. Conform to specified quality standard for fit and clearance tolerances.

- B. Conform to specified quality standard for maximum diagonal distortion.

SECTION 08211 – FLUSH WOOD DOORS

1. SECTION INCLUDES

- A. Flush wood doors; flush configuration; non-rotated and acoustical.

2. REFERENCES

1. Applications: Use for:

- A. AW/AMAC (QS) – Architectural Woodwork Quality Standards Illustrated; Architectural Woodwork Institute and Architectural Woodwork Manufacturers Association of Canada; 2006, 8th Ed., Version 2.0.

3. DELIVERY, STORAGE, AND HANDLING

- A. Package, deliver and store doors in accordance with specified quality standard.

- B. Accept doors on site in manufacturer's packaging. Inspect for damage.

- C. Protect doors with resilient packaging. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with linted sealer if stored more than one week. Break seal on site to permit ventilation.

4. WARRANTY

- A. Interior Doors: Provide manufacturer's warranty for the life of the installation.

- B. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

5. MANUFACTURERS

- A. Wood Veneer Faced Doors:

1. Asso Abloy Graham: www.grahamdoors.com.

2. Eggers Industries: www.eggersindustries.com.

3. Substitutions: See Section 01600 – Product Requirements.

6. DOORS AND PANELS

- A. All Doors: See drawings for locations and additional requirements.

1. Quality Level: Premium Grade; in accordance with specified quality standard.

2. Wood Veneer Faced Doors: Red Oak, plain-sliced, 5-ply unless indicated.

- B. Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction.

1. Provide solid core doors at all locations.

7. DOOR FACINGS

1. Hinges: ball bearing, non-removable pin 4-1/2" x 4-1/2" [114mm x 114 mm] hinge with oil rubbered bronze finish.

2. Balance of hardware by the General Contractor as noted on Hardware Schedule in the drawings, except as noted herein.

- E. Weather stripping:

1. Bronze compression seal in frame rabbets.

2. Grey pile weather strip on sides and head of the door panels.

3. Bronze sweep on bottom rail of the door panel.

4. Adobe vinyl cap sweep on top rail of door panel.

4. INSTALLATION

- A. Install doors according to manufacturer's instructions and reviewed shop drawings to ensure proper installation and operation.

- B. Install door unit plumb, level and square with no distortion of frame members.

- C. Fill perimeter frame to wall opening cavity with batt insulation. Do not use expensive foam insulation.

- D. Apply approved sealant in accordance with Section 07900 – Joint Protection.


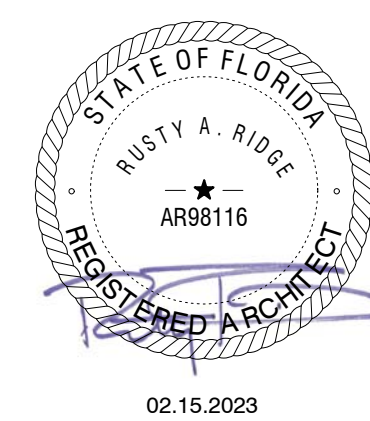

- E. Do not puncture aluminum cladding.

5. ADJUSTING AND CLEANING

- A. Adjust operating panel and hardware to provide tight fit at contact points and at the weather stripping for smooth operation.



- B. Remove excess sealant materials and visible labels from glass. Clean glass surfaces promptly after installation.

SECTION 08800 – GLAZING	1. SECTION INCLUDES A. Glass. B. Glazing compounds and accessories.	2. REFERENCES A. 16 CFR 1201 – Safety Standard for Architectural Glazing Materials; current edition. B. ASTM C 864 – Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005. C. ASTM C 920 – Standard Specification for Elastomeric Joint Sealants; 2005. D. ASTM C 1036 – Standard Specification for Flat Glass; 2001. E. ASTM C 1048 – Standard Specification for Heat-Treated Flat Glass—Kind HS, Kind FT Coated and Uncolored Glass; 2004. F. ASTM C 1183 – Standard Guide for Use of Joint Sealants; 2005a. G. ASTM E 2190 – Standard Specification for Insulating Glass Unit Performance and Evaluation; 2002.	3. PERFORMANCE REQUIREMENTS A. Provide glass and glazing materials for continuity of building enclosure vapor retarder and air barrier: 1. In conjunction with vapor retarder and joint sealer materials described in other sections. 2. To maintain a continuous air barrier and vapor retarder throughout the glazed assembly from glass pane to head bead of glazing sealant.	4. SUBMITTALS A. Product Data on Glass Types: Provide structural, physical and environmental characteristics, size limitations, special handling or installation requirements. B. Product data on Glazing Compounds: Provide chemical, functional, and environmental characteristics, limitations, special application requirements. Identify available colors. C. Certificates: Certify that products meet or exceed specified requirements.	5. QUALITY ASSURANCE A. Perform Work in accordance with GANA Glazing Manual and FOMA Sealant Manual for glazing installation methods.	6. FLAT GLASS MATERIALS A. Clear Float Glass: Clear, fully tempered. 1. Comply with ASTM C 1036, Type I, transparent flat, Class 1 clear, Quality Q3 (glazing select). 2. Comply with ASTM C 1048. 3. 6 mm minimum thick. B. Safety Glass: Clear, fully tempered with horizontal tempering. 1. Comply with ASTM C 1036, Type I, transparent flat, Class 1 clear, Quality Q3 (glazing select) and ASTM C 1048. 2. Comply with 16 CFR 1201 test requirements for Category II. C. Wall Mirror. 1. Plate glass, electroplated, pointed and baked for corrosion resistance. 2. Thickness: 1/4". 3. Color: Clear. 4. Edge Treatment: Beveled. 5. Do not allow field cutting of mirror.	7. SEALED INSULATING GLASS MATERIALS A. Insulated Glass Units: Double pane with Low-E coating; Provide Solarban 90 (2) clear + clear; (VLT) 51% and (SHGC) 0.23; provide Low-E coating on glass to elastomer edge seal. 1. Durability: Certified by an independent testing agency to comply with ASTM E 2190. 2. Purge interpane space with heat hermetic air. 3. Total unit thickness of 1-1/4 inch minimum (1/2-inch air space and two 1/4-inch lites). B. Outer Pane design desired to be provided with laminated safety glass to meet Miami-Dade impact resistance requirements and Florida IECC requirements as stipulated.	8. GLAZING COMPOUNDS A. Butyl Sealant: Single component; ASTM C 920, Grade NS, Class 12-1/2. Uses M and A; Shore A hardness of 10 to 20; black color; non-skinning. B. Silicone Sealant: Single component, neutral curing, capable of water immersion without loss of properties; non-bleeding, non-staining; ASTM C 920, Type S, Grade NS, Class 25, Uses M, A, and G; cured Shore A hardness of 15 to 25; color as noted in Finish Schedule on Drawings.	9. GLAZING ACCESSORIES A. Setting Blocks: Neoprene, 80 to 90 Shore A durometer hardness, ASTM C 864 Option I. Length of 0.1 inch for each square foot of glazing or minimum 4 inch x width of glazing rabbet space minus 1/16 inch x height to suit glazing method and pane weight and end crop. B. Spacer Strips: Neoprene, 50 to 60 Shore A durometer hardness, ASTM C 864 Option I. Minimum 3 inch long x one half the height of the glazing stop x thickness to suit application, self adhesive on one face. C. Glazing Tape: Preformed butyl compound with integral resilient tube spacing device; 10 to 15 Shore A durometer hardness; coupled on release paper; size as recommended by glass manufacturer; black color. 1. Manufacturers: a. Pecora Corporation; www.pecora.com . b. Tremco, Inc.; www.tremcochemicals.com . c. Substitutions: Refer to Section 01600 – Product Requirements. D. Glazing Gaskets: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C 864 Option I; black color. E. Glazing Clips: Manufacturer's standard type.	10. PREPARATION A. Prime surfaces scheduled to receive sealant. 1. Install sealants in accordance with ASTM C 1193 and FOMA Sealant Manual. C. Install sealant in accordance with manufacturer's instructions.	11. INSTALLATION – EXTERIOR WET/DRY METHOD (PREFORMED TAPE AND SEALANT) A. Cut glazing tape to length and set against permanent stops, 3/16 inch below sight line. 1. Seal corners by butting tape and dabbing with butyl sealant. B. Apply head bead of butyl sealant along intersection of permanent stop with frame ensuring full perimeter seal between glass and frame to complete the continuity of the air and vapor seal. C. Place setting blocks at 1/4 points with edge block no more than 6 inches from corners. D. Rest glazing on setting blocks and push against tape and head bead of sealant with sufficient pressure to attain full contact at perimeter of pane or glass unit. E. Install removable stops, with spacer strips inserted between glazing and applied stops, 1/4 inch below sight line. Place glazing tape on glazing pane or unit with tape flush with sight line. F. Fill gap between glazing and stop with sealant to depth equal to bite of frame on glazing, but not more than 3/8 inch below sight line. G. Apply cap bead of sealant along void between the stop and the glazing, to uniform line, flush with sight line. Tool or wipe sealant surface smooth.	12. INSTALLATION – INTERIOR DRY METHOD (TAPE AND TAPE) A. Cut glazing tape to length and set against permanent stops, projecting 1/16 inch (1.6 mm) above sight line. B. Place setting blocks at 1/4 points with edge block no more than 6 inches from corners. C. Rest glazing on setting blocks and push against tape for full contact at perimeter of pane or unit. D. Place glazing tape on free perimeter of glazing in same manner described above. E. Install removable stop without displacement of work. Exert pressure on tape for full continuous contact. F. Knife trim protruding tape.	13. INSTALLATION – WALL MIRRORS A. Install spots of adhesive, 4 spots per square foot, approximately 1/8 inch to 3/16 inch thick and 4 inches to 4 1/2 inches in diameter. B. Provide bottom support for mirrors for 3 days until adhesive has set. C. Install bedding tape or cushion strip under bottom edge of each mirror. D. Tolerances: 1. Offset in alignment of adjoining edges: Max 1/16 inch. 2. Offset in face alignment over wall surface: Max 1/8 inch. 3. No gap between adjacent members.	14. CLEANING A. Remove glazing materials from finish surfaces. B. Remove adheses after Work is complete. C. Clean glass and adjacent surfaces.	15. PROTECTION A. After installation, mark pane with an "X" by using removable plastic tape or paste; do not mark head absorbing or reflective glass units.	3. GYPSUM BOARD MATERIALS A. Manufacturers: 1. BPF America Inc.: www.bpf-na.com . 2. G-P Gypsum Corporation: www.g-p.com/gypsum . 3. National Gypsum Company: www.nationalgypsum.com . 4. USG: www.usg.com . B. Gypsum Wallboard: ASTM C 1396/C 1396M. Sizes to minimize joints in place; ends square cut. 1. Regular Type: a. Application: Use for vertical surfaces, unless otherwise indicated. b. Edges: Tapered. 2. Fire Resistant Type: Complying with Type X requirements; UL or WH rated. a. All Assemblies indicated with Fire-Rating: Use type required by indicated tested assembly. b. Thickness: 5/8 inch. c. Edges: Tapered. 3. Ceiling Grade: Special sag-resistant Type. a. Application: Ceilings, unless otherwise indicated. b. Thickness: 1/2 inch. c. Edges: Tapered. C. Water-Resistant Gypsum Backing Board: ASTM C 1396/C 1396M; ends square cut. 1. Application: Vertical surfaces behind finish tile, except in wet areas. 2. Core Type: Regular and Type X, as indicated. 3. Thickness: 5/8 inch. 4. Edges: Tapered.	4. FIBERGLASS REINFORCED BOARD MATERIALS A. Cementitious Backer Board: ANSI A118.9, aggregated portland cement panels with glass fiber mesh embedded in front and back surfaces, 5/8 inch thick.	5. METAL FRAMING A. Metal Studs: Per ASTM C645, galvanized, size and gauges as noted on drawings. Track shall be one size heavier than studs.	6. ACCESSORIES A. Acoustic Insulation: ASTM C 665, preformed glass fiber, friction fit type, unfaced. B. Finishing Accessories: ASTM C 1047, galvanized steel, unless otherwise indicated. C. Joint Materials: As detailed or required for finished appearance. D. Joint Materials: ASTM C 475 and as recommended by gypsum board manufacturer for project conditions. 1. Type: 2 inch wide, coated glass fiber tape for joints and corners, except as otherwise indicated. 2. Type: 2 inch wide, creased paper tape for joints and corners, except as otherwise indicated. 3. Ready-mixed vinyl-based joint compound. D. Fasteners: Screws, per ASTM 1002; 1-1/4" type "W" bugle head into wood framing, 1-1/8" type "S" bugle head into steel framing, and 5/8" type "S"-12" pan (or low profile) head for steel to steel framing connections.	7. EXAMINATION A. Verify that project conditions are appropriate for work of this section to commence.	8. ACOUSTIC ACCESSORIES INSTALLATION A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions. B. Acoustic Sealant: Install in accordance with manufacturer's instructions.	9. METAL FRAMING A. Metal Framing, Board Application and Finish Standards: GA216 and ASTM C754 and C840, Studging shall be 16" o.c. unless otherwise noted. B. Install ceiling boards in the direction and manner which will minimize the number of end-hull joints, and which will avoid end joints in the central area of each ceiling. Stagger end joints at least 4'-0". C. Install wall/partition boards vertically to avoid end-but joints wherever possible. Locate either edge or end joints over supports. Stagger joints over different studs on opposite sides of partitions. D. Space fasteners in gypsum board in accordance with referenced standards and manufacturer's recommendations, except as otherwise indicated. 1. Parallel Application: 12" o.c. in field; 8" o.c. along edges. 2. Perpendicular Application: 12" o.c. in field; 12" o.c. along edges.	10. GYPSUM BOARD INSTALLATION A. Comply with ASTM C 840 and manufacturer's instructions. Install to minimize butt and joints, especially in highly visible locations. B. Single-Layer Non-Cutted: Install gypsum board in most economical direction, with ends and edges occurring over frame bearing. C. Fire-Rated Construction: Install gypsum board in strict compliance with requirements of listing authority. D. Cementitious Backing Board: Install over steel framing members where indicated, in accordance with ANSI A108.11 and manufacturer's instructions. E. Installation on Metal Framing: Use screws for attachment of all gypsum board. F. Moisture Protection: Treat cut edges and holes in moisture resistant gypsum board with sealant. G. All gypsum board ceiling installations to have a Level 3 finish in all public areas. No lesser finish will be allowed.	11. INSTALLATION OF TRIM AND ACCESSORIES A. Corner Beads: Install at external corners, using longest practical lengths.	12. JOINT TREATMENT A. Finish all gypsum board in accordance with ASTM C 840 Level 4. B. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes. 1. Feather coats of joint compound so that camber is maximum 1/32 inch. 2. Taping, filling, and sanding is not required of surfaces behind adhesive applied ceramic tile and fixed cabinetry.	13. TOLERANCES A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.	SECTION 09300 – TILE	1. SECTION INCLUDES A. Tile for floor applications. B. Tile for wall applications. C. Cementitious backer board as tile substrate. D. Ceramic trim. E. Waterproofing Sheet Membrane	2. REFERENCES A. ANSI A108 Series/A118 Series/A1361 – American National Standard Specifications for the Installation of Ceramic Tile (Compendium); 2005. B. TCA (HB) – Handbook for Ceramic Tile Installation; Tile Council of North America, Inc.; 2006.	3. QUALITY ASSURANCE A. Maintain one copy of TCA Handbook and ANSI A108 Series/A118 Series on site. B. General contractor and Tile subcontractor must attend a pre-construction meeting with local Laticrete technical sales representative prior to commencing tile installation. C. All installations shall be in compliance with manufacturer's printed instructions and the Darden short-form installation specification. D. The installers must provide their Laticrete International's certificate of completion for Darden Restaurants' technical training prior to installation of any tile products.	4. DELIVERY, STORAGE, AND HANDLING A. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.	5. EXTRA MATERIALS A. Provide 10 sq. ft. of each size, color, and surface finish of tile specified.	6. TILE	7. TRIM AND ACCESSORIES A. Trim: Matching bullnose, surface bullnose, cove base, and cove ceramic shapes as scheduled in sizes coordinated with field tile. 1. Applications: Use in the following locations: a. Open Edges: Schluter outside edge as noted on drawings at all conditions. b. Inside Corners: Schluter inside edge as noted on drawings in Restrooms. c. Floor to Wall Joints: Schluter cove base as noted on drawings in Restrooms. 2. Manufacturer: Schluter.	8. Tiling: Grouting Materials and Waterproofing membrane: 1. Basis of Design: Laticrete International, Inc. (no alternates accepted). 2. Waterproofing Sheet Membrane: Hydro Bar as manufactured by Laticrete International, Bethony, CT.	9. Composite sheet membrane of a thin, durable polyethylene core with a fused 1. non-woven polypropylene exterior, 30 mil thickness. 2. Complies with ANSI A118.10.	10. ADHESIVE MATERIALS A. Organic Adhesive: Laticrete 254 Platinum, ANSI A136.1, thinset bond type; use Type I in areas subject to prolonged moisture exposure. B. Epoxy Adhesive: Latapoxy 210 adhesive, ANSI A118.8, thinset bond type.	11. GROUT MATERIALS A. Standard Grout: Laticrete Permacolor Select, ANSI A118.6 or A118.7; Colors as noted on drawings. B. Epoxy Grout: Laticrete Spectralock 2000 IG, ANSI A118.5, modified epoxy emulsion grout ; Colors as noted on drawings.	12. CLEANING SOLUTION A. Type recommended by stone manufacturer which will not harm stone, sealer, or adjacent surfaces.	13. REFERENCE STANDARDS A. American Society of Testing Materials (ASTM): ASTM C615 Granite building stone	14. SAMPLES A. Submit two 12 inch x 12 inch samples to Owner for acceptance.	15. GRANITE A. Distributor, Color, Texture and Pattern as noted on Finish Schedule on the drawings.	16. ADHESIVES A. Water resistive type as recommended by the Tile Council of America for particular condition in which the stone is being set.	17. EXAMINATION A. Verify that substrate surfaces are prime painted and ready to receive work, and conform to requirements of the wall covering manufacturer. B. Measure moisture content of surfaces using an electronic moisture meter. Do not apply wall coverings if moisture content of substrate exceeds level recommended by wall covering manufacturer. C. Verify finish tolerance of surfaces does not vary more than 1/8 inch in 10 feet nor vary at a rate greater than 1/16 inch/ft.	18. PREPARATION A. Fill cracks in substrate and smooth irregularities with filler; sand smooth. B. Wipe impervious surfaces with tetra-sodium phosphate, rinse and neutralize; wipe dry. C. Applications: Remove old adhesive or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing. D. Surfaces: Correct defects and clean surfaces that affect work of this section. E. Marks: Seal with shellac those that may bleed through surface finishes. F. Apply one coat of primer sealer to substrate surfaces. Allow to dry. Lightly sand smooth then clean surfaces free of loose particles.	19. INSTALLATION A. Apply adhesive and wall covering in accordance with manufacturer's instructions. B. Use wall covering in roll number sequence. C. Razor trim edges on flat work table. Do not razor cut on gypsum board surfaces. D. Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface. Butt edges tightly. E. Horizontal seams are not acceptable. F. Do not seam within 2 inches of internal corners or within 6 inches of external corners. G. Install wall covering before installation of bases and items attached to or spaced slightly from wall surface. H. Cover spaces above and below windows, door doors, in pattern sequence from roll. I. Where wall covering turns into reveals, or metal wallboard or plaster stops, apply with contact adhesive within 6 inches of wall covering termination. Ensure full contact bond. J. Remove excess adhesive while wet from seam before proceeding to next wall covering sheet. Wipe clean with dry cloth.	20. EXAMINATION A. Apply adhesive and wall covering in accordance with manufacturer's instructions. B. Use wall covering in roll number sequence. C. Razor trim edges on flat work table. Do not razor cut on gypsum board surfaces. D. Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface. Butt edges tightly. E. Horizontal seams are not acceptable. F. Do not seam within 2 inches of internal corners or within 6 inches of external corners. G. Install wall covering before installation of bases and items attached to or spaced slightly from wall surface. H. Cover spaces above and below windows, door doors, in pattern sequence from roll. I. Where wall covering turns into reveals, or metal wallboard or plaster stops, apply with contact adhesive within 6 inches of wall covering termination. Ensure full contact bond. J. Remove excess adhesive while wet from seam before proceeding to next wall covering sheet. Wipe clean with dry cloth.	21. CLEANING SOLUTION A. Type recommended by stone manufacturer which will not harm stone, sealer, or adjacent surfaces.	22. EXAMINATION A. Apply adhesive and wall covering in accordance with manufacturer's instructions. B. Use wall covering in roll number sequence. C. Razor trim edges on flat work table. Do not razor cut on gypsum board surfaces. D. Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface. Butt edges tightly. E. Horizontal seams are not acceptable. F. Do not seam within 2 inches of internal corners or within 6 inches of external corners. G. Install wall covering before installation of bases and items attached to or spaced slightly from wall surface. H. Cover spaces above and below windows, door doors, in pattern sequence from roll. I. Where wall covering turns into reveals, or metal wallboard or plaster stops, apply with contact adhesive within 6 inches of wall covering termination. Ensure full contact bond. J. Remove excess adhesive while wet from seam before proceeding to next wall covering sheet. Wipe clean with dry cloth.	23. EXAMINATION A. Apply adhesive and wall covering in accordance with manufacturer's instructions. B. Use wall covering in roll number sequence. C. Razor trim edges on flat work table. Do not razor cut on gypsum board surfaces. D. Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface. Butt edges tightly. E. Horizontal seams are not acceptable. F. Do not seam within 2 inches of internal corners or within 6 inches of external corners. G. Install wall covering before installation of bases and items attached to or spaced slightly from wall surface. H. Cover spaces above and below windows, door doors, in pattern sequence from roll. I. Where wall covering turns into reveals, or metal wallboard or plaster stops, apply with contact adhesive within 6 inches of wall covering termination. Ensure full contact bond. J. Remove excess adhesive while wet from seam before proceeding to next wall covering sheet. Wipe clean with dry cloth.	24. EXAMINATION A. Apply adhesive and wall covering in accordance with manufacturer's instructions. B. Use wall covering in roll number sequence. C. Razor trim edges on flat work table. Do not razor cut on gypsum board surfaces. D. Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface. Butt edges tightly. E. Horizontal seams are not acceptable. F. Do not seam within 2 inches of internal corners or within 6 inches of external corners. G. Install wall covering before installation of bases and items attached to or spaced slightly from wall surface. H. Cover spaces above and below windows, door doors, in pattern sequence from roll. I. Where wall covering turns into reveals, or metal wallboard or plaster stops, apply with contact adhesive within 6 inches of wall covering termination. Ensure full contact bond. J. Remove excess adhesive while wet from seam before proceeding to next wall covering sheet. Wipe clean with dry cloth.	25. EXAMINATION A. Apply adhesive and wall covering in accordance with manufacturer's instructions. B. Use wall covering in roll number sequence. C. Razor trim edges on flat work table. Do not razor cut on gypsum board surfaces. D. Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface. Butt edges tightly. E. Horizontal seams are not acceptable. F. Do not seam within 2 inches of internal corners or within 6 inches of external corners. G. 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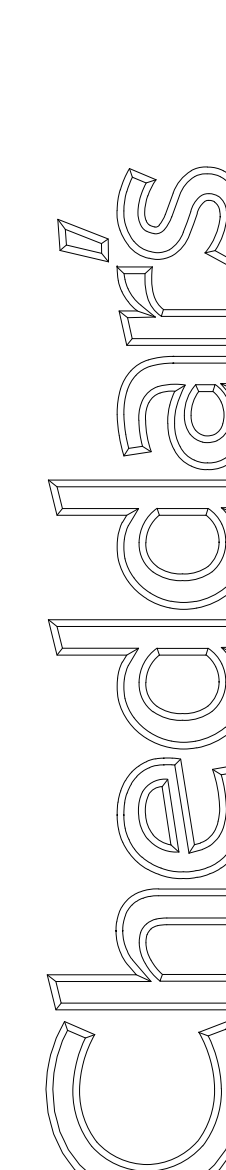
	
6201 CAMPUS CIRCLE DRIVE E IRVING, TEXAS 75063 TEL: 972.870.1288 WWW.IDSTUDIO4.COM	
PROJECT NUMBER DCH22007	
CLIENT:	
DARDEN RESTAURANTS, INC. 1000 DARDEN CENTER DR. ORLANDO, FL 32837 PHONE: 407.245.4000 www.darden.com	
	
	
Issue Date:	02.15.2023
REVISION INFORMATION	
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Restaurant #:	21K0037
CHEDDARS SCRATCH KITCHEN PROTO 18	
10150 BLOOMINGDALE AVE RIVERVIEW, FL 33578	
RIVERVIEW, FL	
Drawing:	
SPECIFICATIONS	
AS7	

H.	Make submittals for the equipment and materials in accordance with the following: 1. Mark the submittals, "SUBMITTED UNDER SECTION-----". 2. Submittals shall be marked to show specification reference including the section and paragraph numbers. 3. The submittals shall include the following: a. Information that confirms compliance with contract requirements. Include the manufacturer's name, model or catalog number, catalog information, technical data sheets, shop drawings, pictures, nomenclature data and test reports as required. Provide any additional information specifically requested in the individual specification section or on the drawings. b. Elementary and interconnection wiring diagrams for fire alarm, sound system, TV system and other communication systems and equipment assemblies. All terminal points and wiring connections shall be identified on wiring diagrams. c. Parts list which shall include those replacement parts recommended by the equipment manufacturer, quantity of parts, current price and availability of each part. 4. Shop drawings on paper 11X17" or smaller in size shall be submitted in tabbed and indexed three ring binder. The binder shall not exceed 11-5/8" height. Partial submittals are unacceptable. The index shall indicate the related specification section number. J. A fee will be charged for Engineering review of drawings received after the time allotted as described in "D" above or for plans that have been rejected two or more times due to non-compliance or incompleteness. The fee will be determined by the Architect/Engineer and will accompany the re-submittal in the form of a cashiers check or money order made payable to the Engineer. K. The General Contractor will certify that all electrical shop drawings are in conformance with the plans and specifications. Deviations from the plans and specifications shall be noted, and the specific area of the deviation clouded and color-coded (red or green) with a complete explanation for the reason for the deviation. Any redesign of the system shall be Certified by a Professional Engineer, and will be accompanied by the fees as described in "B" above. L. Carefully examine all shop drawings and mark-up as necessary before submitting to the Architect/Engineer for review. The consultant will only consider shop drawings bearing the contractor's stamp of approval. M. The engineer's review shall not relieve the contractor from the responsibility for deviations from drawings and specifications. The engineer's review shall be construed to apply only to general arrangement and shall not relieve the contractor from the responsibility for the correctness of details and dimensions and provision of the correct equipment and materials. N. The contractor shall retain copies of all reviewed shop drawings on the job site for reference. O. In addition to the requirement of SUBMITTALS, the Owner reserves the right to request the manufacturer to arrange for the Owner's representative(s) to see typical active systems in operation, when there has been no prior experience with the manufacturer or the type of equipment being submitted.	SECTION 16110 – RACEWAYS	1. RELATED DOCUMENTS A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section. B. This section is a Division-16 Basic Electrical Materials and Methods section, and is part of each Division-16 section making reference to electrical raceways specified herein. 2. DESCRIPTION OF WORK A. Extent of raceway work is indicated by drawings and schedules. Types of raceways specified in this section include the following: 1. Electrical metallic tubing (EMT). 2. Liquid tight flexible metal conduit. 3. Rigid metal conduit. 4. Flexible metal conduit. 5. Rigid non-metallic conduit. 3. QUALITY ASSURANCE A. Manufacturers: Firm regularly engaged in manufacture of raceway systems of types and sizes required, whose products have been in satisfactory use in similar service for not less than 5 years. B. Installer's Qualifications: Firm with at least 3 years of successful installation experience on projects with electrical raceway similar to that required for this project. C. Codes and Standards: 1. NEMA Compliance: Comply with applicable requirements of NEMA Standards Publications pertaining to raceways. 2. UL Compliance and Labeling: Comply with applicable requirements of UL safety standards pertaining to electrical raceway systems. Provide raceway products and materials which have been UL-listed and labeled. 3. NEC Compliance: Comply with applicable requirements of NEC pertaining to construction and installation of raceway systems. 4. SUBMITTALS A. Product Data: Submit manufacturer's technical product data, including specifications and installation instructions, for each type of raceway system required. Include data substantiating that materials comply with requirements. 5. METAL CONDUIT AND TUBING A. General: Provide metal conduit, tubing, and fittings of types, grades, sizes, and weights (wall thicknesses) for each service indicated. B. Rigid Steel Conduit: Provide rigid steel, zinc-coated, threaded type conforming to FS W-C-587, ANSI C80.1 and UL 6. C. Rigid Metal Conduit: Cast malleable iron, galvanized or cadmium plated, conforming to FS W-F-408, ANSI C80.4. 1. Use compression type fittings for connections. 2. Use compression type fittings for other miscellaneous connections. D. Electrical Metallic Tubing (EMT): FS W-W-563, ANSI C80.3 and UL 797. 1. EMT Fittings: FS W-W-580, the Division-16 Basic Electrical Materials and Methods section, and is a part of each Division-16 section making reference to electrical wires and cables specified herein. 2. Use compression fittings for straighttight connections. 3. Use compression type for concrete type connections. 4. Use compression type fittings for miscellaneous connections. F. Liquid-Tight Flexible Metal Conduit: Provide liquid-tight flexible metal conduit; construct of single strip, flexible, continuous, interlocked, and double-wrapped steel; galvanized inside and outside; coat with liquid-tight jacket of flexible polyethylene (PVC). G. Liquid-Tight Flexible Metal Conduit Fittings: FS W-F-406, type 1, Class 3, Style G. H. Provide cadmium plated, malleable iron fittings with compression type steel ferrule and neoprene gasketed rings, with insulated, or non-insulated thread. I. Flexible Metal Conduit: FS W-W-C-366 and UL 1. Formed from continuous length of spiral wound, insulated zinc-coated strip steel. 1. Flexible Metal Conduit Fittings: Provide conduit fittings for use with flexible metal conduit of threaded hinged clamp type. 2. Straight Terminal Connectors: One piece body, female end with clamp and deep slotted machine screw for securing conduit, on male threaded and provided with lock washers. 3. 45 or 90° Terminal Angle Connectors: Two-piece body construction with removable upper section, female end with clamp and deep slotted machine screw for securing conduit, and male threaded and provided with locknut. 6. NONMETALLIC CONDUIT A. General: Provide nonmetallic conduit, ducts, and fittings of types, sizes, and weights for each service indicated. Where types and grades are not indicated, provide proper selection determined by Installer's Choice of materials to fulfill wiring requirements which comply with provisions of NEC for raceways. B. Electrical Plastic Conduit: 1. Heavy Wall: Flexible conduit, 40, 90 C, UL-rated, construct of polyvinyl chloride and conforming to NEMA TC-2, for direct burial, or normal above ground use, UL-listed and in conformity with NEC Article 347, ANSI C33.91. C. Polyethylene Tubing Fittings: NEMA TC 3, mate and match to conduit or tubing type and material. 7. MANUFACTURERS A. Subject to compliance with requirements, provide conduit bodies of one of the following: 1. Appleton Electric Co. of Emerson Electric Co. 2. Arrow-Hart Div., Crouse-Hinds Co. 3. Bell Electric Div., Square D Co. 4. Gould, Inc. 5. Kilbuck Electric Mfg. Co. 6. O-Z/Gedney Div., General Signal Co. 7. Spring City Electrical Mfg. Co., or equivalent. 8. INSPECTION A. Examine areas and conditions under which raceways are to be installed, and substrate which will support raceways. Notify Contractor in writing of conditions detrimental to proper completion of the work. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to Installer. 9. INSTALLATION OF RACEWAYS A. General: Install concealed conduits as indicated; in accordance with manufacturer's written installation instructions, and in compliance with NEC, and NCECA's "Standards of Installation". Install units plumb and level, and maintain manufacturer's recommended clearances. B. Coordinate with other work including wires/cables, boxes, and panel work, as necessary to interface installation of electrical raceways and components with other work. 10. INSTALLATION OF CONDUITS A. General: Install concealed conduits in new construction work, either in walls, slabs, or above hung ceilings. Run conduits concealed in existing work where practical or specifically indicated in drawings. 1. Mechanically fasten together metal conduits, enclosures, and raceways for conductors to form continuous electrical conductor. Connect to electrical boxes, fittings, and cabinets to provide electrical continuity and firm mechanical assembly. 2. Avoid use of dissimilar metals throughout system to eliminate possibility of electrolysis. Where dissimilar metals are in contact, coat surfaces with corrosion inhibiting compound or use of insulating material. 3. Install miscellaneous fittings such as reducers, close nipples, 3-piece unions, split couplings, and plugs that have been specifically designed and manufactured for their particular application. Install expansion fittings in raceways every 200' linear run or wherever structural expansion joints are crossed. B. Conduit Installation: Follow minimum requirements in all areas as follows: 1. Use rigid steel galvanized conduit in service splines, where exposed to weather or subject to saturation with liquids, or subject to possible physical damage from vehicles or heavy machinery. 2. Use steel EMT above hung ceilings in offices, corridors, toilets, and lab areas, and in spaces with exposed ceilings. 3. Use rigid metallic conduit or PVC heavy wall (Schedule 40) when raceways run below grade, under floors on grade or in concrete. All bends and elbows greater than 45 degrees shall be galvanized rigid steel conduit or schedule 40 pipe. All risers to cabinets and boxes when used is to be exposed shall be rigid steel conduit. 4. Conduit in walls to recessed panels and boxes shall be in accordance with NEC - PVC must be used. Minimum distance of 6" from parallel runs of flues, hot water pipes or other sources of heat. Wherever possible, install horizontal raceway runs above water and steam piping. Use of running threads at conduit joints and terminations is prohibited. 5. Use flexible conduit in movable partitions and from outlet boxes to lighting fixtures, and flint 24" of connection to motors, control lights or any equipment subject to movement or vibration, and in cells of precast concrete panels. 6. Use liquid-tight flexible conduit where subjected to one or more of the following conditions: a. Exterior location. b. Moist or humid atmosphere where condensate can be expected to accumulate. c. Corrosive atmosphere. 7. Subjected to water spray or dripping oil, water, or grease, including Kitchen areas. 8. Use hot-dipped galvanized conduit where conduit is routed outdoors or in anyway exposed to weather. 9. The contractor will be responsible for the following for all underground conduits: a. Trenching and Excavation b. Backfill c. Compaction 10. EMT can be used only where approved for use by the owner in advance of install, approved by the local authority having jurisdiction and approved by the Engineer. 11. EMT shall be installed in a trench, and supported in accordance with NEC. 12. Cut conduits straight, properly ream, and cut threads for heavy wall conduit deep and clean. 13. Field bend conduit with benders designed for purpose so as not to distort nor vary internal diameter. 14. Minimum conduit size shall be 1/2" unless noted otherwise. Runners shall be a minimum 3/4" diameter. 15. Provide conduit terminations in metal cabinet enclosures by two (2) locknuts, and terminate with bushings. Install locknuts inside and out side enclosure. 16. Conduits are not to cross pipe shots, or venting duct openings. 17. Keep conduit a minimum distance of 6" from parallel runs of flues, hot water pipes or other sources of heat. Wherever possible, install horizontal raceway runs above water and steam piping. Use of running threads at conduit joints and terminations is prohibited. 18. Complete installation of electrical raceways before starting installation of cables/wires within raceways. 19. Install conduits as not to damage or run through structural members. Avoid horizontal or cross runs in building partitions or side walls. L. Exposed Conduits 1. Where not indicated, conduit to be exposed to view in areas accessible to the public nor in any kitchen or other food services areas. The contractor shall be responsible for obtaining written approval for all and any exposed conduit routing prior to installation. 2. Any non-approved exposed conduit will be subject to removal and re-routing by the contractor at no additional expense to the owner. The contractor shall be responsible for coordinating all conduit installation with structural members, finishes, sprinkler piping, ductwork, lighting, etc.	3. FIELD QUALITY CONTROL A. Prior to energization, test wires and cables for electrical continuity and for short-circuits.	I. Style: Tap connection. J. Style: Pigtail connection. K. Style: Wirenut connection. L. All connectors shall be rated 75°C.	D. Provide knockout closures to cap unused knockout holes where blanks have been removed. E. Install electrical boxes in those locations which ensure ready accessibility to enclosed electrical wiring and components. F. Avoid installing boxes back-to-back in walls. Provide not less than 240" (600" mm) separation. G. Panels/recessed outlet boxes accurately to allow for surface finish thickness. H. Fasten electrical boxes firmly and rigidly to substrates, or structural surfaces to which attached, or solidly embed electrical boxes in concrete or masonry. I. Each electrical box in pull box shall be marked with a tag guide denoting panels which they connect to. J. Manholes and handholes shall be installed for all underground conduit installations. The minimum number of manholes shall be determined by the Engineer. The contractor shall provide any additional handholes or manholes necessary for ease of installation, code compliance or due to voluntary or required re-routing of the underground conduits at no additional cost to the Owner.	8. FIELD QUALITY CONTROL A. Upon completion of installation of electrical connections, and after circuitry has been energized with rated power supply, connections to demonstrate capability and compliance with requirements. Ensure that direction of rotation of each motor fulfills requirement. Correct malfunctioning units at site, then retest to demonstrate compliance. SECTION 16143 – WIRING DEVICES
12. CUTTING, PATCHING, EXCAVATION, BACKFILL, AND LAYOUT A. Provide openings and excavation required for the installation of the electrical work. Patch work and backfill as required. Finished work shall match the existing adjoining work. B. Verify all conditions affecting the work to be performed under this contract. C. Carefully verify measurements at the site, determine the exact location of channels and openings required. Provide sleeves, inserts, and hangers as required. No columns, beams, joists, building foundations nor any other structural building component shall be cut, drilled or disturbed in any way. Conflicts shall immediately be brought to the attention of the Architect/Engineer. D. All excavation on sites containing existing buildings and existing services shall be done with hand shovel to avoid damage to existing services. Where hand shovel is not practical extreme caution shall be taken when performing excavation. The contractor will be responsible for locating any existing utilities. Any damage incurred by the Contractor shall be repaired by the Contractor in a manner approved by the Owner's construction manager at no cost and with no extension of time limitation. 13. EXPERIENCE A. The Contractor performing this work shall be a licensed, reputable firm, regularly performing the type of work incorporated in this project and who also maintains, as part of the firm, a service department with qualified personnel who regularly perform this type of work. The Contractor shall, upon request, show evidence of at least three jobs of similar character and size installed within the preceding two years. 14. ELECTRICAL WORK FOR MECHANICAL SYSTEMS A. Factory installed starters, controllers, and control equipment mounted in manufactured mechanical equipment necessary for mechanical equipment operation shall be furnished under Division 15 Mechanical and Electrical. B. Power wiring for motors and installation of starters shall be under Division 16 Electrical. Temperature, humidity, pressure and similar controls essential to the operation of mechanical systems, and wiring and control shall be under Division 16 Electrical. C. Division 15 of Specifications, installed in accordance with requirements of Division 16. D. Motors shall be furnished under Division 15 Mechanical of capacity required to operate equipment specified, but shall not be less than that specified. E. All low voltage (120V and under) temperature control wiring for Division 15 equipment shall be provided under by Division 15, installed in accordance with requirements of Division 16. F. Division 15 shall provide conduit when required for control wiring, installed in accordance with Division 16 requirements. 15. MOTORS A. All motors shall be furnished and installed under Division 15 Mechanical and shall be wired under Division 16 Electrical. 16. REMOVAL OF RUBBISH A. Contractor shall keep premises free from accumulations of waste material or rubbish caused by his employees or work. At completion of work, he shall remove all his tools, scaffolding, surplus materials, and rubbish from building and site. He shall leave premises and his work in a clean orderly condition acceptable to the Owner. 17. QUIET OPERATION AND VIBRATION A. All equipment provided under this section shall operate under all conditions of load free of objectionable sound and vibration. Sound and vibration conditions considered objectionable shall be corrected in an approved manner. B. Vibration and sound control shall be by means of approved vibration eliminators or sound attenuators in a manner as specified and as recommended by the manufacturer. 18. CLEANING AND ADJUSTMENTS A. Upon completion of the work, Contractor shall clean and re-lamp all light fixtures, clean and identify all equipment, adjust and test all equipment and apparatus which he has installed and make certain such apparatus and mechanisms are in proper working order and ready to test. B. During construction protect all conduit and equipment from damage and dirt. Cap the open ends of all conduit and equipment. 19. STORAGE OF MATERIALS A. All materials stored on site shall be properly protected from injury or deterioration. Materials shall not be stored in contact with ground or floor. B. Do not remove manufacturer's packing materials until ready to install. Materials showing signs of corrosion, improper handling or storage shall be replaced at no cost to the Owner. C. Provide continuous protection for all equipment already installed. 20. WATERPROOFING A. Where any work pierces waterproofing including waterproof concrete, the method of installation shall be as approved by the Engineer. B. Provide all necessary seepers, caulking and flashing required to make openings absolutely watertight. Waterproof flashing materials shall be compatible with base materials. 21. TESTS A. Contractor shall make all tests required to establish the adequacy, quality, safety, completed status and satisfactory operation of all systems to the satisfaction of the Owner's construction manager. Provide all instruments, labor and services necessary to conduct tests. 22. INSTRUCTIONS A. Fully instruct Owner's personnel in the care and operation of electrical systems, including all communications, sound and fire alarm systems and furnish a letter to the Owner advising the particular person(s) who have received such instruction. 23. GUARANTEE A. Equipment shall be started, tested, adjusted, and placed in satisfactory operating condition. Furnish a letter addressed to the Owner advising that the completed systems have been installed in accordance with the Plans and Specifications and that they are in proper operating condition. The Owner shall retain the right to return to the site and inspect the workmanship and material for a period of one year from date of final acceptance. Any defects appearing within this year period shall be repaired without additional cost to the Owner. 24. ACCEPTANCE A. Before requesting final inspection. B. Complete all work required. If any items are held in abeyance or incomplete for final inspection, list such items together with a written explanation of the reason for delay. C. Submit statement that equipment is properly installed, adjusted, tested and operation is satisfactory. D. Certify in writing to the Architect/Engineer that the Owner's representative has been given access to the care and operation of the system and that catalog service and maintenance information has been turned over to the Architect/Engineer. E. Submit copy of written guarantee. F. Submit copy of other data as may be outlined in these specifications. G. Copies of the above data shall be submitted to the Architect/Engineer prior to requesting final inspection. 25. SINGULAR NUMBER A. Where any device or part of equipment is referred to in these specifications in the singular number (such as "the switch"), such reference shall be deemed to apply to as many such devices as are required to complete the installation as shown on the drawings.							
6. INSTALLATION OF WIRES AND CABLES A. General: Install electrical cables, wires, and wiring connectors as indicated, in compliance with applicable requirements of NEC, NEMA, UL, and NCECA's "Standard of Installation", and in accordance with recognized industry practices. B. Coordinate wire/cable installation work including electrical raceway and equipment installation work, as necessary to properly interface installation of wires/cables with other work. C. Pull conductors simultaneously where more than one conductor is being installed in the same raceway. D. Use pulling compound or lubricant, where necessary; compound used must not deteriorate conductor or insulation. E. Use pulling means including, fish tape, cable, rope and basket weave or wire/cable grips which will not damage boxes or raceway. Any cable damaged during installation shall be replaced. F. Keep conductor splices to minimum. No joints shall be made in conductor except at outlet boxes or splice boxes. Newly installed conductors shall not be spliced unless specifically noted on the drawings. G. Install splices and tapes which possess equivalent—or-better mechanical strength and insulation ratings than conductors being spliced. H. Use splice and connection methods which are compatible with conductor material. I. Tighten electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL Std 486A and B. J. At least eight inches (8") of slack wire shall be left in every outlet box whether it be for use with integral or other type of wiring device. K. Color code wiring as follows: 1. 120/208 volt, 3 phase, 4 wire: phase A-black, phase B-red, phase C-blue, phase D-white. L. Wire and cable boxes and reels shall bear the date of manufacture and must not bear dates by more than one year preceding contract date. M. Minimum conductor sizes, except as specifically identified on the drawings, shall be as follows: 1. No. 12 – Branch circuits of any kind, except as specified otherwise below. 2. No. 14 – Signal circuits, and conductors for low voltage control systems. 3. No. 10 – Exit light circuits, emergency circuits, security lighting, security systems circuits and exterior light circuits. 7. FIELD QUALITY CONTROL A. Prior to energization, test wires and cables for electrical continuity and for short-circuits.	11. INSTALLATION OF RACEWAYS AND WIREWAYS A. General: Mechanically assemble metal enclosures, and raceways for conductors to form continuous electrical conductor. Connect to electrical boxes, fittings and cabinets as to provide effective electrical continuity and rigid mechanical assembly. Avoid use of dissimilar metals throughout system to eliminate possibility of electrolysis. Where dissimilar metals are in contact, coat all surfaces with corrosion inhibiting compound before assembling. 2. Install expansion fittings in all raceways wherever structural expansion joints are crossed. 3. Changes in direction of raceway run with proper fittings, supplied by raceway manufacturer. Field bends of raceway sections will be permitted. 4. Properly support and anchor raceways for their entire length by structural materials. Raceways are not to span any space unsupported. Supporting conduits from ceiling grid, other conduits, ductwork or other non-structural members will not be permitted. Use boxes as supplied by raceway manufacturer wherever junction, pull or devices are required. 5. Use surface raceway installations. 12. COMMUNICATIONS SYSTEMS RACEWAY A. Communications systems raceways shall be provided for each telephone, data, security, sound, TV, and fire alarm outlet or device indicated on the drawings. Conduit with pull string shall be as indicated on the drawings and as required for each system.	SECTION 16135 – ELECTRICAL BOXES AND FITTINGS	1. RELATED DOCUMENTS A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section. B. This section is a Division-16 Basic Electrical Materials and Methods section, and is a part of each Division-16 section making reference to electrical wiring boxes and fittings specified herein. 2. DESCRIPTION OF WORK A. Extent of electrical box and associated fitting work is indicated by drawings and schedules. B. Types of electrical boxes and fittings specified in this section include the following: 1. Flexible Metal Conduit Fittings: Provide conduit fittings for use with flexible metal conduit of threaded hinged clamp type. 2. Junction boxes. 3. Pull boxes. 4. Floor boxes, with cover boards and groundings screws for floor mounting. 5. Bushings. 6. Locknuts. 7. Knockout closures. 8. Manholes and handholes 3. QUALITY ASSURANCE A. Manufacturers: Firm regularly engaged in manufacture of electrical boxes and fittings, of types, sizes, and ratings required, whose products have been in satisfactory use in similar service for not less than 3 years. B. Installer's Qualifications: Firm with at least 3 years of successful installation experience on projects utilizing electrical boxes and fittings similar to those required for this project. C. NEC Compliance: Comply with NEC as applicable to construction and installation of electrical boxes and fittings. D. UL Compliance: Comply with applicable requirements UL 50, UL 514-Series, and UL 886 pertaining to electrical boxes and fittings. E. NEMA Compliance: Comply with applicable requirements of NEMA Stds/Pub No.'s 051, 052, and Pub 250 pertaining to outlet and device boxes, covers, and box supports. 4. FABRICATED MATERIALS A. Outlet Boxes: Provide galvanized coated flat rolled sheet-steel outlet wiring boxes of shapes, cubic inch capacities, and sizes, including box depths as indicated, suitable for installation at respective locations. Construct outlet boxes with mounting holes, and with cable and conduit-size knockout openings in bottom and sides. Provide boxes with threaded screw covers, with screw-down covers, and groundings screws for floor mounting surface and device type box covers, and for equipment type grounding. 1. Outlet Box Accessories: Provide outlet box accessories as required for each application, including raceway box supports, mounting ears and brackets, wallboard hangers, box extension rings, fixture studs, cableclamps and metal straps for supporting outlet boxes, which are compatible with outlet boxes being used to fulfill installation requirements for raceways. 2. Device Boxes: Provide galvanized coated flat rolled sheet-steel non-gangable device boxes of shapes, cubic inch capacities, and sizes, including box depths as indicated, suitable for installation at respective locations. Construct device boxes with mounting holes, and with cable-size knockout openings in bottom and ends, and with threaded screw holes in end plates for fastening devices. Provide cable clamps for steel conduit connections. Choice of accessories is Installer's choice-compliance option. 3. Device Box Accessories: Provide device box accessories as required for each application, including raceway box supports, mounting ears and brackets, wallboard hangers, plaster ears, and plaster board expandable grip fasteners, which are compatible with device boxes being installed to fulfill installation requirements for individual wiring. 4. Available Manufacturers: Subject to compliance with requirements, manufacturers offering outlet boxes which may be incorporated in the work include, but are not limited to the following: 1. Appleton Electric; 2. Bell Electric; 3. Eagle Electric Div., Crouse-Hinds Co.; Inc. 4. Midland-Ross Corp. 5. OZ/Gedney; General Signal Co. 6. Pass and Seymour; 7. RACO Div.; Harvey Hubbell Inc. 8. Thomas & Betts Co. D. Straightout Outlet Boxes: Provide corrosion-resistant cast-metal straightout outlet wiring boxes of types, shapes and sizes, including depth of boxes, with threaded conduit holes for fastening electrical conduit, cast-metal face plates with spring hinged watertight caps suitably configured for each application, including face plate gaskets and corrosion resistant plastic covers. E. Available Manufacturers: Subject to compliance with requirements, manufacturers offering straightout outlet boxes which may be incorporated in the work include, but are not limited to the following: 1. Appleton Electric; 2. Crouse-Hinds Co. 3. Bell Electric; 4. Harvey Hubbell Inc. 5. OZ/Gedney; General Signal Co. 6. RACO Div. F. Junction and Pull Boxes: Provide galvanized code-gage sheet steel junction and pull boxes; with screw-on covers; of types, shapes and sizes, to suit each respective location and installation; with welded seams and equipped with stainless steel rivets, bolts, screws, and washers. G. Available Manufacturers: Subject to compliance with requirements, manufacturers offering junction and pull boxes which may be incorporated in the work include, but are not limited to the following: 1. Appleton Electric; Emerson Electric Co. 2. Arrow-Hart Div., Crouse-Hinds Co. 3. Bell Electric; Square D Company 4. OZ/Gedney; General Signal Co. 5. Spring City Electrical Mfg. Co. H. Available Manufacturers: Subject to compliance with requirements, manufacturers offering floor boxes which may be incorporated in the work include, but are not limited to the following: 1. Arrow-Hart Div., Crouse-Hinds Co. 2. Harvey Hubbell, Inc. 3. Midland-Ross Corp. 4. Spring City Electrical Mfg. Co. I. Bushings, Knockout Closures, and Locknuts: Provide corrosion-resistant box knockout closures, conduit locknuts and malleable iron conduit bushings, offset connections, of types and sizes for use with all types of raceway systems and applications. J. Available Manufacturers: Subject to compliance with requirements, manufacturers offering bushings, knockout closures, locknuts, and connectors which may be incorporated in the work include, but are not limited to the following: 1. Arrow-Hart Div., Crouse-Hinds Co. 2. Appleton Electric Co.; Emerson Electric Co. 3. Bell Electric; Square D Company 4. Midland-Ross Corp. 5. OZ/Gedney Co.; General Signal Co. K. Manholes and Handholes: Provide manholes and handholes for exterior use shall be pre-cast concrete with steel traffic rated covers, as manufactured by Brooks or equal. Manholes and handholes shall be the size necessary for the number of conduits and conductors indicated in the drawings, and enter the enclosure, plus the necessary capacity for the spare conduits and the associated estimated conductor fill. Provide manholes with the appropriate drainage and knockouts for conduits and other necessary access. L. Traffic covers shall be engraved with the appropriate identification, such as "ELECTRIC". 5. INSTALLATION OF ELECTRICAL BOXES AND FITTINGS A. General: Install electrical boxes and fittings as indicated, in accordance with manufacturer's written instructions, applicable requirements of NEC and NCECA's "Standard of Installation", and in accordance with recognized industry practices to fulfill project requirements. B. Coordinate installation of electrical boxes and fittings with wire/cable, wiring devices, and raceway installation work, as necessary to properly interface installation of electrical boxes and fittings for interior and exterior locations exposed to weather or moisture.	SECTION 16142 – ELECTRICAL CONNECTIONS FOR EQUIPMENT	1. RELATED DOCUMENTS A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section. B. This section is a Division-16 Basic Electrical Materials and Methods section, and is part of each Division-15 and 16 section making reference to electrical connections for equipment specified herein. 2. DESCRIPTION OF WORK A. Extent of electrical connections for equipment is indicated by drawings and schedules. Electrical connections are hereby defined to include connections used for providing electrical power to equipment. B. Applications of electrical power connections specified in this section include the following: 1. From electrical source to motor starters. 2. From motor starters to motors. 3. To lighting fixtures. 4. To grounds including earthing connections. 5. To equipment of communication, CCTV and alarm systems. C. Electrical connections for equipment, but not furnished as integral part of equipment, are specified in Division-15 and other Division-16 sections, and are work of this section. D. Motor starters and controllers, not furnished as integral part of equipment, are specified in Division-15 and other Division-16 sections, and are work of this section. E. Refer to Division-15 specification sections and drawings for motor starters and controllers furnished integrally with equipment; not work of this section. Connections to this equipment is work of this section. F. Junction boxes and disconnect switches required for connecting motors and other electrical units of equipment are specified in applicable Division-16 sections, and are work of this section. G. Raceways and wires/cables required for connecting motors and other electrical units of equipment are specified in applicable Division-16 sections, and are work of this section. H. Electrical connections for equipment specified in this section include the following: 1. From electrical source to motor starters. 2. From motor starters to motors. 3. To lighting fixtures. 4. To grounds including earthing connections. 5. 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<p>12. WARRANTY</p> <p>All wiring devices, including any dimmers or dimming systems, shall have a minimum one year parts and labor warranty.</p>	<p>18. GROUNDING</p> <p>Provide equipment grounding connections, sufficiently tight to assure a permanent and effective ground, for electrical disconnect switches where indicated.</p>	<p>4. 1-Beam Cables: Black steel, 1-1/4" x 3/16" stock; 3/8" cross bolt; flange with 2"; approximately 52 pounds per 100 units.</p> <p>5. Carolina Products: Provide factory-assembled watertight wall and floor seals, 3/4" rigid metal conduit; approximately 7 pounds per 100 units.</p> <p>6. Hexagon Nuts: For 1/2" rod size; galvanized steel; approximately 4 pounds per 100 units.</p> <p>7. Round Steel Rod: Black steel; 1/2" dia.; approximately 67 pounds per 100 feet.</p>	<p>SECTION 16450 – GROUNDING</p> <p>RELATED DOCUMENTS</p> <p>A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.</p> <p>B. Division-16 Basic Electrical Materials and Methods section apply to work of this section.</p>	<p>L. Each cabinet section will have a metal plate mounted on the outside of the cabinet door and have the following information stamped onto the metal plate.</p> <p>M. Ballasts shall be installed in accordance with the following instructions:</p> <ol style="list-style-type: none"> Section Number & X of total sections Section Voltage & type of system (ex. 120/208V 3 phase 4 wire) Section Current Rating (ex. 100 Amps) Section Neutral /FA Section Full Current Rating (ex. 10K AIC) 	<p>13. WARRANTY</p> <p>All wiring devices, including any dimmers or dimming systems, shall have a minimum one year parts and labor warranty.</p>	<p>19. EFFECT QUALITY CONTROL</p> <p>A. Subsequent to completion of installation of electrical disconnect switches, energize circuitry and demonstrate capability and compliance with requirements. Where possible, correct malfunctioning units at project site, then, retest to demonstrate compliance; otherwise remove and replace with new units and retest.</p> <p>B. Painting repair all scratches to factory painted and primed finish with factory supplied touch-up paint.</p>	<p>8. DESCRIPTION OF WORK</p> <p>A. Extent of grounding work is indicated by drawings and schedules.</p> <p>B. Types of grounding specified in this section include the following:</p> <ol style="list-style-type: none"> Solid grounding Applications of grounding work in this section including the following: <ul style="list-style-type: none"> Underground metal water piping Metal building frames Grounding electrodes Grounding rods Service equipment Enclosures Equipment 	<p>C. Fusing all fluorescent ballasts shall be fused. Fuses may be deleted if the ballast is supplied with automatically resetting thermal overloads intrinsic to the ballast.</p> <p>D. H.I.D. Lamp Ballasts: Provide energy saving ballasts, capable of operating lamp types indicated on drawings and fixture schedule. Provide minimum 100,000 hour life expectancy and low-noise feature and with internal thermal protection, Class H insulation, H.I.D. ballasts shall be manufactured by Advanced, Volmest, Magnetek or approved equal.</p>	<p>SECTION 16150 – MOTOR CONTROLLERS AND CONTACTORS</p> <p>1. RELATED DOCUMENTS</p> <p>A. Drawings and general provisions of Contract including General and Division 1 Specification Sections, apply to work of this section.</p>	<p>20. OVERCURRENT PROTECTIVE DEVICES</p> <p>1. RELATED DOCUMENTS</p> <p>A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.</p> <p>B. Division-16 Basic Electrical Materials and Methods section, apply to work of this part of each Division-16 section making reference to overcurrent protective devices specified herein.</p>	<p>9. DESCRIPTION OF WORK</p> <p>A. Extent of overcurrent protective device work is indicated by drawings and schedules</p> <p>B. Types of overcurrent protective devices in this section include the following:</p> <ol style="list-style-type: none"> Circuit Breakers: <ul style="list-style-type: none"> air, molded-case, for installation in panels. air, molded-case, for individual, separately enclosed mounting. for installation in existing panels. Fuses: <ul style="list-style-type: none"> Class RK5, dual-element time-delay. 	<p>E. SWITCHGEAR</p> <p>A. All switchgear supplied by Carolina Products Inc. shall be industrial grade manufactured by Square "D".</p> <p>B. Unless specified in writing to Carolina Products Inc. from bodies having authority, Carolina Products Inc. reserves the right to choose one of the switchgear manufacturers listed above.</p> <p>C. For the remainder of this section, the terms switchgear, service panelboard(s) or panelboard(s) shall include and apply to all manufacturers.</p>	<p>2. SCOPE</p> <p>The work, apparatus and materials which shall be furnished under these specifications and accompanying drawings shall include all items specified hereinafter and shown on the drawings. All other materials necessary for the complete installation shall be furnished and installed by the Contractor to provide complete electrical systems as indicated on the drawings and as specified herein.</p>	<p>21. OVERCURRENT PROTECTIVE DEVICES</p> <p>2. DESCRIPTION OF WORK</p> <p>A. Extent of overcurrent protective device work is indicated by drawings and schedules</p> <p>B. Types of overcurrent protective devices in this section include the following:</p> <ol style="list-style-type: none"> Circuit Breakers: <ul style="list-style-type: none"> air, molded-case, for installation in panels. air, molded-case, for individual, separately enclosed mounting. for installation in existing panels. Fuses: <ul style="list-style-type: none"> Class RK5, dual-element time-delay. 	<p>10. QUALITY ASSURANCE</p> <p>A. Manufacturers: General Electric, Square D, Allen Bradley.</p> <p>B. Installer's Qualifications: Firm with at least 3 years of successful installation experience on projects with electrical motor controller work similar to that required for this project.</p>	<p>F. LED FIXTURES</p> <p>A. All lighting fixture schedule for manufacturer, type, wattage, lamp, Kevin temperature rating and CRI.</p> <p>B. Label shall comply with UL 1598. Include recommended lamps. Locate label where they are readily visible to service personnel, but not seen from normal viewing angles when lamp is on.</p> <p>C. Label shall include "USE ONLY" and include specific lamp type.</p> <p>D. List view of use installation location.</p> <p>E. Provide LED Driver.</p>	<p>3. RELATED DOCUMENTS</p> <p>A. Drawings and general provisions of Contract including General and Division 1 Specification Sections, apply to work of this section.</p>	<p>22. OVERCURRENT PROTECTIVE DEVICES</p> <p>3. QUALITY ASSURANCE</p> <p>A. Manufacturers: Firms regularly engaged in manufacture of overcurrent protective devices, of types, sizes, and ratings required, whose products have been in satisfactory use in similar service for not less than 5 years.</p>	<p>11. QUALITY ASSURANCE</p> <p>A. Manufacturers: Firms regularly engaged in manufacture of electrical connectors, terminals and fittings, of types and ratings required, and ancillary grounding materials, including stranded cable, copper braid and bus, ground rods and plate electrodes, whose products have been in satisfactory use in similar service for not less than 3 years.</p>	<p>G. FACTORY ASSEMBLED SPECIFICATIONS</p> <p>A. Switchgear</p> <ol style="list-style-type: none"> Service panelboard(s) and sub-panelboard(s) shall be mounted so that their deadfronts are flush with the enclosure doors. Also, branch circuit breakers shall be accessible without opening the enclosure doors. All panelboard(s) provided by Carolina Products Inc. that are specified as remote mounted will be shipped to local offices including panelboards, breakers, can and cover. All panelboard(s) shall be clearly labeled with a red plastic label with white engraved lettering. These labels shall be pop riveted in place. Panelboard(s) shall be provided with a computer generated circuit directory card that will be placed in a metal frame with a plexi-glass cover and pop riveted in place. All ground bars and neutral bars shall be provided and mounted by Carolina Products Inc. All feeder and branch circuit wiring shall be copper conductors with a minimum insulation rating of 75°C. 	<p>4. SCOPE</p> <p>The work, apparatus and materials which shall be furnished under these specifications and accompanying drawings shall include all items specified hereinafter and shown on the drawings. All other materials necessary for the complete installation shall be furnished and installed by the Contractor to provide complete electrical systems as indicated on the drawings and as specified herein.</p>	<p>23. OVERCURRENT PROTECTIVE DEVICES</p> <p>4. QUALITY ASSURANCE</p> <p>A. 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All other materials necessary for the complete installation shall be furnished and installed by the Contractor to provide complete electrical systems as indicated on the drawings and as specified herein.</p>	<p>24. OVERCURRENT PROTECTIVE DEVICES</p> <p>5. QUALITY ASSURANCE</p> <p>A. Manufacturers: Firms regularly engaged in manufacture of overcurrent protective devices, of types, sizes, and ratings required, whose products have been in satisfactory use in similar service for not less than 5 years.</p>	<p>13. QUALITY ASSURANCE</p> <p>A. Manufacturers: Firms regularly engaged in manufacture of electrical connectors, terminals and fittings, of types and ratings required, and ancillary grounding materials, including stranded cable, copper braid and bus, ground rods and plate electrodes, whose products have been in satisfactory use in similar service for not less than 3 years.</p>	<p>I. FACTORY ASSEMBLED SPECIFICATIONS</p> <p>A. 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idstudio	
6201 CAMPUS CIRCLE DRIVE E IRVING, TEXAS 75063 TEL.: 972.870.1288 WWW.IDSTUDIOX.COM	
PROJECT NUMBER DCH22007	
CIENT:	DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR. ORLANDO, FL 32837 PHONE: 407.245.4000 www.darden.com	
 02.15.2023	
	
Issue Date:	02.15.2023
REVISION INFORMATION	
Restaurant #:	21K0037
CHEDDARS SCRATCH KITCHEN PROTO 18	
10150 BLOOMINGDALE AVE RIVERVIEW, FL 33578	
RIVERVIEW, FL	
Drawing:	SPECIFICATIONS
AS9	

<p>SECTION 16271 – FIRE ALARM AND SMOKE DETECTION SYSTEMS</p> <p>1. SECTION INCLUDES</p> <p>A. A combination addressable and hard wired fire alarm and smoke detection system.</p> <p>2. REFERENCES</p> <p>A. NFPA 72 – National Electrical Code – Adopted edition</p> <p>B. NFPA 72 – National Fire Alarm Code – Adopted edition</p> <p>C. NFPA 101 – Life Safety Code – Adopted edition</p> <p>D. ANSI A117.1-1986 American National Standard for Buildings and Facilities Providing Accessibility and Usability</p> <p>E. American With Disabilities Act of 1990 and applicable sections of the Uniform Federal Accessibility Standards.</p> <p>3. REGULATORY REQUIREMENTS</p> <p>A. System: UL listed.</p> <p>B. Conform to requirements of NFPA 101 and the Local Fire Marshal.</p> <p>4. DESCRIPTION OF SYSTEM</p> <p>A. The system shall be an addressable, microprocessor based fire alarm control system with transient protection on each circuit and walk-through test capability. The system shall have the capability to control and supervise all the addressable devices and non-addressable appliance and auxiliary control circuits. Each component of the system shall be UL listed for its use. The system shall have a Dynamic LCD display and be located in a constantly attended location while the building is occupied.</p> <p>5. QUALIFICATIONS</p> <p>A. Manufacturer: Company specializing in smoke detection and fire alarm systems with five (5) years documented experience.</p> <p>B. Installer: Company specializing in smoke detection and fire alarm systems with five (5) years documented experience with projects of equivalent scope of work and size and certified by the Florida State Licensing Board as fire alarm installing contractor. The actual installer shall be licensed to install fire alarm systems and shall be certified by the system manufacturer to install the system. Proof of certification and licensure shall be provided upon request.</p> <p>6. SUBMITTALS</p> <p>A. Submit six (6) copies shop drawings and product data.</p> <p>B. Provide complete point to point wiring diagrams, data sheets, and equipment ratings, layout, dimensions, and finishes. Indicate the location of surge protection devices.</p> <p>C. Submit manufacturer's installation instructions.</p> <p>D. Submit manufacturer's certificate that the system meets or exceeds specified requirements – certification per NFPA 72.</p> <p>E. Submit copy of Contractor's license before work begins.</p> <p>F. Submit battery calculations indicating the required battery, including the specified spare capacity.</p> <p>G. Submit voltage drop calculations.</p> <p>H. Provide training for four (4) people on the operation, maintenance, and repair of the system at the Contractor's expense. Training shall be certified by the manufacturer and be at different times for each person. Include transportation, room and board where needed.</p> <p>7. PROJECT RECORD DRAWINGS</p> <p>A. Contractor shall provide (2) plus Electrical sets of as-built drawings to the Owner upon completion of project.</p> <p>B. As-builts shall include the location of end-of-line devices, surge protection devices and exact conduit and wire routing. Numbers and types or conductors shall be indicated for each circuit.</p> <p>8. OPERATION AND MAINTENANCE DATA</p> <p>A. Provide (2) plus Electrical copies of operation and maintenance data prior to the completion of construction for all point devices, CPUs, and all other equipment.</p> <p>B. Include operating instructions, and maintenance and repair procedures.</p> <p>C. Provide manufacturer representative's letter stating that the system is operational.</p> <p>D. Maintain system for a minimum of one (1) year, after complete acceptance by the Owner, in accordance with NFPA 72 and 72E.</p> <p>E. Provide, at the end of the first year after construction completion, a yearly certification as outlined by the State Fire Marshal's Rule 4A-48.</p> <p>9. DELIVERY, STORAGE, AND HANDLING</p> <p>A. Products shall be delivered to job site in manufacturer's original shipping packages.</p> <p>B. Provide storage and protection of products, as needed.</p> <p>10. MANUFACTURERS</p> <p>A. Notifier System AFP300.</p> <p>B. Equal by ESI.</p> <p>C. Equal by ADT</p> <p>NOTE : Approval of manufacturer's equipment does not in any way relieve the Contractor from meeting the performance criteria as outlined in the Plans and Specifications.</p> <p>11. FIRE ALARM CONTROL PANEL (FACP)</p> <p>A. Control panel construction shall be modular with solid state, microprocessor based electronics and shall conform to all requirements made necessary by the Local Fire Marshal. It shall display only those primary controls and displays essential to operation during a fire alarm condition. Keyboards or keypads shall not be required to operate the system during fire alarm conditions. A local audible device shall sound during alarm, trouble or supervisory conditions. This audible device shall sound differently during each condition to distinguish one (1) condition from another without having to view the panel. This audible device shall also sound during each keypress to provide an audible feedback to ensure that the key has been pressed properly. The panel shall be complete with all required cords for the points necessary for all the devices indicated, plus capability for expansion to 30% more points, minimum. Provide the necessary hard wired circuits for all the indicating appliance and auxiliary control devices. Provide a two spare indicating appliance circuits in addition to the required indicating appliance circuits to serve the appliances shown on the drawings.</p> <p>1. Provide Voice Evacuation System as required by Local Codes or jurisdiction. Provide microphone, pre-recorded voice message and amplifier and other required devices for a voice annunciator system. Pre-recorded message shall be capable of being revised and re-recorded. Confirm exact message required by the local fire marshal prior to installation.</p> <p>A. The following primary controls shall be visible through a front access panel:</p> <ol style="list-style-type: none"> 1. Eighty character liquid crystal display. Individual red system alarm LED. 2. Individual yellow supervisory service LED. Individual yellow trouble LED. 3. Green "power on" LED. 4. Alarm acknowledge key. 5. Supervisory acknowledge key. 6. Trouble acknowledge key. 7. Alarm silence key. 8. System reset key. <p>B. The control shall provide the following:</p> <ol style="list-style-type: none"> 1. Setting of time and date. 2. LED testing: Alarm, trouble, and abnormal condition listing. 3. Enabling and disabling of each monitor point separately. 4. Activation and deactivation of each control point separately. 5. Changing operator access levels. 6. Walk test enable. 7. Running diagnostic functions. 8. Displaying software revision level. 9. Displaying historical logs. 10. Displaying card status. 11. Point listing. 12. Speaker silence switch. <p>D. For maintenance purposes, the following lists shall be available from the point lists menu.</p> <ol style="list-style-type: none"> 1. All points listed by address. 2. Monitor point list. 3. Signal/speaker list. 4. Auxiliary control list. 5. Feedback point list. 6. Pseudo point list. 7. LED/switch status list. <p>12. DEVICES AND ACCESSORIES</p> <p>A. Manual Station: Semi-flush mounted, supervised, normally open single action manual station. Manual stations shall be single action and shall be constructed of cast metal or lexan with raised white lettering and a smooth high gloss finish. The station shall have a hinged front with key lock stations which utilize screwdrivers, Allen wrenches, or other commonly available tools shall not be accepted. Stations shall be keyed alike with the fire alarm control panel. When the station is operated, the handle shall lock in a protruding manner to facilitate quick visual identification of the activated station. Stations shall be the addressable type.</p> <p>B. Heat Detector: Easy installation, low profile with wide base to cover mounting plate and box. Detectors shall be white and have a doming disk to indicate element operation. Detectors will be fired temperature with thermostats rated at 135 degrees F, except when the plans call for a 194 or 200 degrees F rating. The detector shall be the addressable type for use with an addressable system and shall be UL listed for this purpose.</p> <ol style="list-style-type: none"> 1. Heat detectors installed in hazardous environments shall be the explosion proof type. <p>C. Smoke Detectors: NFPA 72E; photoelectric type with plug-in base, supervised visual indication of detector actuation, suitable for mounting on four inch (4") outlet box.</p> <ol style="list-style-type: none"> 1. Detectors shall be listed to U.L. Standard 268 and shall be documented as compatible with the control equipment to which it is connected. Detectors shall be listed for this purpose by Underwriters Laboratories, Inc. The detectors shall obtain their operating power from the fire alarm panel supervised detection loop. The operating voltage shall be 24 VDC (nominal). Removal of the detector head shall interrupt the supervisory circuit of the fire alarm detection loop and cause a trouble signal to be generated at the control panel. Detectors shall be the addressable type for use on an addressable type system. 2. Each detector shall have a flashing status indicating LED for visual supervision. When the detector is actuated, the flashing LED will latch on steady and at full brilliance. The detector may be reset by actuating the control panel reset switch. 3. To minimize nuisance alarms, voltage and RT transient suppression techniques shall be employed as well as smoke verification circuit and an insect screen. The detector design shall provide full solid-state construction and compatibility with other normally open fire alarm detection loop devices (heat detectors, pull stations, etc.). The detector head shall be easily disassembled to facilitate cleaning. <p>D. Horns/Speakers: Moisture repellent, fire retardant speaker or horn designed for smooth frequency response with minimal distortion. Horns/speakers shall be listed and approved for use as a fire alarm indicating appliance. Horn/Speakers shall all sound the same general alarm sound. Outdoor speakers shall be weatherproof and listed for use as an outdoor fire alarm indicating appliance.</p> <ol style="list-style-type: none"> 1. Sound level: 87 dB at 10 feet not to exceed 120 dbA. 	<p>E. Visual Flashing Lamps (Xenon Strobes): Visual indicating appliances shall be comprised of xenon flashtube and be entirely solid state. These devices shall be UL listed and be capable of either ceiling or wall mounting. The xenon lens shall be pyramidal in shape to allow better visibility. Separate alarm indicating circuits shall be provided for strobes. The maximum strobe pulse duration shall be 0.2 seconds with a maximum duty cycle of 40 percent. The intensity shall be a minimum 100 candela and the flash rate shall be at least 1 Hz but not to exceed 3 Hz. Strobe must meet current ADA requirements.</p> <p>F. Audio/Visual Alarm Indicating Appliance: Audio/Visual units shall provide a common enclosure for the fire alarm audible and visual alarm devices. The housing shall be designed to accommodate either horns, bells, chimes, or speakers. The unit shall be complete with a tamper resistant, pyramidal shaped xenon lens with "Fire" lettering visible from a 180 degree field of view. The front panel or bezel which is constructed of cast metal may be inverted so that the lens is below the audible device. The lamp assembly shall incorporate a built-in reflector for more efficient light propagation and a special shock-mounting arrangement to resist "Bull" failure due to vibration. Lamp shall be provided with a 4 wire connection to insure properly supervised in/out system connection. Unit shall be complete with all mounting hardware including backbox. Audio/Visual unit shall be UL listed for its intended purpose. The visual flashing lamps shall meet the specification indicated above in Part E.</p> <p>G. Duct Smoke Detectors: Duct smoke detectors shall be of the solid state photoelectric type and shall operate on the light scattering photodiode principle. The detectors shall be designed to ignore invisible airborne particles or smoke densities that are below the factory set alarm point. No radioactive materials shall be used. Detectors shall be the addressable type for use on an addressable type system. Detectors shall be provided with the capability of performing automatic fan shutdown either directly from the detector or via the main control panel. All required wiring and supervision shall be provided for all required fan shutdown. Provide all relays and supervise relays as required.</p> <p>H. Provide all required auxiliary control circuits for hood fire suppression system supervision, appliance shutdown, door release, hood supply fan shutdown, gas shutdown, dampers, valve closure and other required control functions indicated on the drawings or otherwise specified. All auxiliary control circuits shall be indicated on the annunciator as a separate zone or shall be addressable so the device can be identified quickly and accurately.</p> <p>I. Provide wall mounted, magnetic door holder/automatic door release devices. Door holder shall have a minimum 25 lbs. holding force.</p> <p>13. BATTERY BACK-UP</p> <p>A. The system shall be battery back-up for 24 hours with five (5) minutes of alarm capabilities (per NFPA 72) with all system indicating appliances operating including strobes. Provide battery with 30% spare capacity for the potential addition of indicating appliances.</p> <p>14. LIGHTNING PROTECTION</p> <p>A. Provide surge protection on all circuits.</p> <p>B. Provide lightning protection at all points entering and leaving the building (including walkways) and at the FACP location shown on the drawings. The 120 volt power circuit shall be provided with lightning protection.</p> <p>C. Surge protection shall be manufactured and listed for use with the fire alarm system.</p> <p>15. ENTIRE BUILDING</p> <p>A. All pull stations, heat detectors, and smoke detectors shall, when placed in an alarm mode, sound the building general alarm, flash strobe lights, shutdown AHUs, release door holders, and announce the address of the initiating device or the zone of any of the existing hard wired devices to the FACP.</p> <p>B. All pull stations, heat detectors, smoke detectors, and duct smoke detectors shall, when placed in a trouble mode, indicate the address of the device or zone of any existing device experiencing trouble to the FACP.</p> <p>C. Duct smoke detectors shall be hardwired interlocked to shutdown their respective units on alarm or detection of smoke. Duct smoke detectors shall sound a supervisory signal to the FACP and shall not sound the general alarm.</p> <p>D. The system shall be fully programmed and completely operational prior to acceptance. The FACP and CPU shall have the capability to be fully programmable by Owner's personnel.</p> <p>E. The Manufacturer shall provide the necessary documentation and training to allow the Owner's personnel to maintain and change software.</p> <p>F. Program data shall be stored in non-volatile memory with battery back-up. Program data shall not be lost due to temporary outages, surges, dips, etc.</p> <p>16. INSTALLATION OF FIRE ALARM AND DETECTION SYSTEMS</p> <p>A. Install fire alarm and detection systems as indicated, in accordance with equipment manufacturer's written instructions and complying with applicable portions of NEC and NFPA "Standard of Installation" and NFPA-72E.</p> <p>B. Wiring Systems and Materials</p> <ol style="list-style-type: none"> 1. Wiring shall be in accordance with requirements of the National Electrical Code and NFPA Regulation 72. The fire alarm system, including components, conduit, boxes and wiring shall be completely installed and wiring and conduit shall be properly tagged and color coded. The Electrical Contractor shall make final connections as shown and as required by the equipment manufacturer's wiring instructions. 2. Color Code – The color codes of the fire alarm cabling shall conform with the following: <ol style="list-style-type: none"> a. Speaker – Red (+) and Black (-). b. Pull Station/Heat/Smoke Detector – Blue and Yellow. c. Fan shut-down – White. d. Visual Flashing Lamps (Xenon Strobes) – Purple and Orange. e. Spare wires – Any different color, must be same throughout the building. f. All wiring to be installed in conduit with continuous ground. 3. All junction box covers shall be painted red. All lengths of conduits shall have at least one red stripe. 4. AHU shutdown relays and equipment control relays shall be mounted within three (3) feet of controlled device. AHU shutdown relays shall be wired on a separate circuit. 5. Visual flashing lamps and horns/speakers shall be wired on alternate circuits to provide coverage in the event of the failure of one circuit. Provide the required number of circuits for the indicated number of alarm indicating devices. 6. Provide conduit, wire and circuit breakers to connect fire alarm control panels to emergency circuit. The fire alarm circuit breaker shall be accessible to authorized personnel only and shall be marked FIRE ALARM CIRCUIT CONTROL. Provide handle lock for circuit breaker handle. 7. Provide a disable switch for system speakers at the Fire Alarm Control Panel. Label switch "ALARM SILENCE SWITCH". (
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6201 CAMPUS CIRCLE DRIVE E IRVING, TEXAS 75063 TEL: 972.870.1288 WWW.IDSTUDIOA.COM	
PROJECT NUMBER DCH22007	
CLIENT:	
DARDEN RESTAURANTS, INC. 1000 DARDEN CENTER DR. ORLANDO, FL 32837 PHONE: 407.245.4000 www.darden.com	
 02.15.2023	
	
Issue Date:	02.15.2023
REVISION INFORMATION	
Restaurant #:	21K0037
CHEDDARS SCRATCH KITCHEN PROTO 18	
10150 BLOOMINGDALE AVE RIVERVIEW, FL 33578	
RIVERVIEW, FL	
Drawing:	SPECIFICATIONS
AS10	

1 DESIGN CRITERIA

- A. CRITERIA
- DESIGNED USING 2020 FLORIDA BUILDING CODE 7TH EDITION
NOTE: DESIGN COMPLIES WITH 2018 INTERNATIONAL BUILDING CODE (IBC) & ASCE 7-16.
 - RISK CATEGORY TYPE
= II
- B. ROOF LOADS
- | | |
|---|----------|
| 1. ROOF LIVE LOAD | = 20 PSF |
| 2. ROOF DEAD LOAD | = 25 PSF |
| 3. RAIN LOAD (15 MIN. PRECIPITATION INTENSITY: 7.56 IN./HR. | |
| 4. RAIN LOAD (60 MIN. PRECIPITATION INTENSITY: 4.05 IN./HR. | |
| 5. SUSPENDED CEILING LOAD | = 10 PSF |
| 6. ROOF DEFLECTIONS TL | = L/240 |
| 7. ROOF DEFLECTIONS LL | = L/360 |

- C. SEISMIC LOADS
- | | |
|--|---|
| 1. MAPPED SPECTRAL RESPONSE ACC. FOR SHORT PERIOD, SS | = 0.054 G |
| 2. MAPPED SPECTRAL RESPONSE ACC. FOR 1-SEC PERIOD, S1 | = 0.03 G |
| 3. DESIGN SPECTRAL RESPONSE ACC. COEFF. AT SHORT PERIOD, SDS | = 0.058 G |
| 4. DESIGN SPECTRAL RESPONSE ACC. COEFF. AT 1-SEC PERIOD, SD1 | = 0.048 G |
| 5. BUILDING SITE CLASS | = D |
| 6. SEISMIC DESIGN CATEGORY | = A |
| 7. SEISMIC IMPORTANCE FACTOR, IE | = 1.00 |
| 8. SEISMIC COEFFICIENT FORCE FACTOR, CS (ALLOWABLE) | = 0.01 |
| 9. RESPONSE MODIFICATION FACTOR, R | = 6.50 |
| 10. BASIC SEISMIC FORCE-RESISTING SYSTEM | = BEARING WALL SYSTEM- LIGHT-FRAMED (COLD-FORMED STEEL) WALL SHEATHED w/ WOOD PANELS RATED FOR SHEAR RESISTANCE |

- STRUCTURAL
- D. ANALYSIS PROCEDURE USED
- = EQUIVALENT LATERAL FORCE PROCEDURE

- E. WIND LOADS
- | | |
|--------------------------------------|-----------|
| 1. WIND IMPORTANCE FACTOR, IW | = 1.0 |
| 2. WIND EXPOSURE | = C |
| 3. ULTIMATE DESIGN WIND SPEED (VULT) | = 140 MPH |
- F. GEOTECHNICAL/SOILS CRITERIA
- | | |
|------------------------------------|--|
| 1. ALLOWABLE SOIL BEARING PRESSURE | = 2,500 PSF |
| 2. MINIMUM FROST DEPTH | = 24 IN. |
| 3. GEOTECHNICAL REPORT BY | = NOVA ENGINEERING & ENVIRONMENTAL, LLC (NOVA) |
| 4. GEOTECHNICAL REPORT NUMBER | = 10106-2020001 |

2 FOUNDATIONS AND SLABS

- A. ALL FOOTING AND FOUNDATION DESIGNS ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY LISTED ABOVE. ALL BUILDING SHALLOW SPREAD AND CONTINUOUS FOUNDATIONS SYSTEMS SHALL BEAR ON COMPETENT NATIVE SOIL OR STRUCTURAL FILL PLACED PER GEOTECHNICAL RECOMMENDATIONS. IF THE SITE HAS A LOWER BEARING CAPACITY THAN LISTED, THEN FOUNDATION PLAN WILL NEED TO BE REDESIGNED.
- B. THE MINIMUM FROST DEPTH LISTED ABOVE IS FROM LOWEST ADJACENT FINISH GRADE TO BOTTOM OF FOOTING AND SHALL BE MAINTAINED FOR ALL EXTERIOR FOOTINGS, CONTRACTOR SHALL COORDINATE AND VERIFY.
- C. IT IS RECOMMENDED THAT ALL GRADING, EXCAVATION, PLACEMENT OF STRUCTURAL FILL AND INSTALLATION OF FOUNDATIONS BE PERFORMED UNDER THE INSPECTION AND TESTING OF A QUALIFIED GEOTECHNICAL CONSULTANT DURING THE CRITICAL STAGES OF CONSTRUCTION.
- D. ALL CONCRETE SLABS SHALL HAVE REINFORCING & CONTROL JOINTS AS LISTED ON PLANS AND SHALL BE FOUNDED ON MATERIALS COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY A STANDARD PROCTOR AT OPTIMUM MOISTURE AND PLACED IN 8" LIFTS OR PER GEOTECHNICAL SPECIFICATIONS.
- E. SUB SAWN CONTROL AND CONSTRUCTION JOINTS SHALL BE MADE AS SOON AS POSSIBLE WITHOUT DAMAGE TO THE SURFACE. FILLING OF SAWN JOINTS WHERE REQUIRED SHALL BE DELAYED AS LONG AS POSSIBLE TO ALLOW MAXIMUM SHRINKAGE TO OCCUR IN SLABS.
- F. ALL STRUCTURAL FILL BELOW FOOTINGS SHALL EXTEND OUT PAST FOOTINGS AS A SLOPE OF 1 HORIZONTAL TO 2 VERTICAL TO COMPETENT SOILS OR PER GEOTECHNICAL SPECIFICATIONS.
- G. PROVIDE ADEQUATE DRAINAGE BEHIND ALL WALLS TO ALLEVIATE ANY STANDING WATER.
- H. MINIMUM CONCRETE SLAB THICKNESS 15".
- I. BLOCK-OUT ALL STEM WALLS @ ENTRIES AS REQUIRED.

3 REINFORCING STEEL

- A. ALL ARRANGEMENT AND DETAILING OF REINFORCING STEEL, INCLUDING BAR SUPPORTS AND SPACERS, SHALL BE IN ACCORDANCE WITH THE LATEST ACI 315 DETAILING MANUAL.
- B. ASTM A615, GRADE 40 (#3 REBAR OR SMALLER), ASTM A615, GRADE 60 (#4 REBAR OR LARGER), ASTM A185, GRADE 65 (WELDED WIRE FABRIC SHEETS). BARS TO BE WELDED SHALL BE ASTM A706, GRADE 60.
- C. DIMENSIONS OF REINFORCING ARE TO BAR CENTERLINES U.N.O. IN DRAWINGS.
- D. MINIMUM CLEAR PROTECTION FOR REINFORCING SHALL BE AS FOLLOWS:
- | | |
|--|----------|
| 1. CONCRETE PLACED DIRECTLY AGAINST EARTH. | = 3" |
| 2. FORMED SURFACES AND EXPOSED TO EXTERIOR (#5 BARS OR SMALLER). | = 2" |
| 3. INTERIOR FACE OF WALLS: | = 1 1/2" |
| 4. STRUCTURAL SLABS: | = 1" |
| 5. ELEVATED SLABS, BEAMS & COLUMNS: | = 1 1/2" |
- E. MINIMUM REINFORCING LAP SPICES/DEVELOPMENT LENGTHS (F'C = 3,000 PSI):
- | BAR SIZE | HOOK LENGTH (IN) | DEVL./SPICE LENGTH (IN) |
|----------|------------------|-------------------------|
| 3 | 6 | 21 |
| 4 | 8 | 24 |
| 5 | 10 | 27 |
| 6 | 12 | 30 |
- F. STAGGER SPICES IN WALLS SO THAT NO TWO ADJACENT BARS ARE SPICED IN THE SAME LOCATION.
- G. REINFORCING SHALL BE CONTINUOUS THROUGH ALL COLD JOINTS.
- H. PROVIDE CORNER BARS w/ 18" LEGS AT CORNERS AND INTERSECTING WALLS AND FOOTINGS, SIZE AND PLACEMENT TO MATCH HORIZONTAL REINFORCEMENT.
- I. ALL REINFORCEMENT SHALL BE COLD BENT, UNLESS OTHERWISE PERMITTED BY THE BUILDING OFFICIAL AND ENGINEER OF RECORD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE OR MASONRY SHALL NOT BE FIELD BENT, UNLESS PERMITTED BY THE BUILDING OFFICIAL AND ENGINEER OF RECORD.
- J. PROVIDE FOUNDATION HOLDOWNS AT ALL SHEAR WALL LOCATIONS PER PLAN, IF APPLICABLE, RE: SHEARWALL PLAN.
- K. WET SETTING OF REINFORCING BARS IN FOOTINGS AND WALLS IS NOT ALLOWED.

4 STRUCTURAL WELDS

- A. ALL WELDS ON MEMBERS SHALL EMPLOY WELD FILLER METALS CLASSIFIED FOR NOMINAL 70 KSI TENSILE STRENGTH, REFERRED TO AS E70 ELECTRODES, MEETING THE FOLLOWING MINIMUM MECHANICAL PROPERTY REQUIREMENTS:
- CVN TOUGHNESS OF 20 FT-LB AT 70°F, USING AWS AS CLASSIFICATION TEST METHODS.
 - CVN TOUGHNESS OF 40 FT-LB AT 70°F, USING THE TEST PROCEDURES PRESCRIBED IN APPENDIX A.
 - YIELD STRENGTH: 58 KSI MINIMUM, USING BOTH THE AWS AS CLASSIFICATION TEST (FOR E70 CLASSIFICATION ELECTRODES) AND THE TEST PROCEDURES PRESCRIBED IN APPENDIX A.
 - TENSILE STRENGTH: 70 KSI MINIMUM, USING BOTH THE AWS AS CLASSIFICATION TEST (FOR E70 CLASSIFICATION ELECTRODES) AND THE TEST PROCEDURES PRESCRIBED IN APPENDIX A.
 - ELONGATION: 22% MINIMUM, USING BOTH THE AWS AS CLASSIFICATION TEST AND THE TEST PROCEDURES PRESCRIBED IN APPENDIX A.

5 STRUCTURAL STEEL

- A. ALL STEEL CONSTRUCTION SHALL CONFORM TO REQUIREMENTS SET FORTH IN THE LATEST EDITIONS OF AISC, "AMERICAN INSTITUTE OF STEEL CONSTRUCTION", AISC 341-16, "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, INCLUDING SUPPLEMENT NO. 1, DATED 2015" AND AISC 360-16, "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS".
- B. STEEL DESIGNATIONS:
- | | |
|---|-------------------------------|
| 1. WIDE FLANGE SHAPES (BEAMS & COLUMNS) | = ASTM A992 (GRADE 50) |
| 2. ROUND PIPE COLUMNS | = ASTM A513, GRADE "B" |
| 3. RECTANGULAR STRUCTURAL HSS TUBING | = ASTM A500, GRADE "B" 46 KSI |
| 4. OTHER ROLLED SHAPES & PLATE | = ASTM A36 (U.N.O.) |
- C. ALL ANCHOR BOLTS, BOLTS AND LAGS IN WOOD SHALL CONFORM TO ASTM A307 STEEL U.N.O. AND SHALL HAVE STEEL WASHERS BENEATH ALL NUTS AND BOLT HEADS. IF A CERTAIN SITUATION IS NOT DETAILED USE A SIMILAR DETAIL. ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325-N. CONNECTIONS SHALL GENERALLY FOLLOW THE TYPES SHOWN IN AISC MANUAL OF STEEL CONSTRUCTION.
- D. STEEL FABRICATOR SHALL ALSO INCLUDE AND COORDINATE ALL STRUCTURAL STEEL SHOWN ON ARCHITECTURAL SHEETS WITH THAT OF THE STRUCTURAL SHEETS, COORDINATE ANY STEEL NOT SHOWN ON STRUCTURAL DRAWINGS, CONTRACTOR TO VERIFY.
- E. ALL BEAMS ELEVATIONS FOR JOISTS, BEAMS, AND COLUMN HEIGHTS SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR. CW/ ARCH. ALL ELEVATIONS MUST BE APPROVED BY ENGINEER AND ARCHITECT OF RECORD IN THE SHOP DRAWING REVIEW PROCESS.
- F. ALL STEEL WELDING SHALL CONFORM TO AWS D1.1 WITH E70XX ELECTRODES.
- G. PROVIDE HIGH STRENGTH GROUT UNDER ALL STEEL BASE PLATES, F'c = 5,000 PSI, MIN.

6 CONCRETE

- A. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO REQUIREMENTS SET FORTH IN ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- B. CAST-IN-PLACE AND PRECAST CONSTRUCTION TOLERANCES FOR MEMBER SIZE AND LOCATION SHALL BE IN CONFORMANCE WITH ACI 117 AND ACI 107-7, RESPECTIVELY.
- C. NORMAL WEIGHT CONCRETE SHALL BE IN CONFORMANCE WITH ASTM C33 WITH A NOMINAL MAXIMUM AGGREGATE SIZE OF 1".
- D. LIGHTWEIGHT CONCRETE SHALL BE IN CONFORMANCE WITH ASTM C330 AND RESULTS OF ASTM C330 SHALL BE SUBMITTED TO E.O.R. FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT. THE VOLUMETRIC FRACTIONS OF THE AGGREGATE SHALL ALSO BE SUBMITTED TO E.O.R. FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT.
- E. PORTLAND CEMENT SHALL BE TYPE I/II IN CONFORMANCE WITH ASTM C150.
- F. OTHER CEMENTITIOUS MATERIALS SHALL CONFORM TO THE FOLLOWING:
- | | |
|----------------------------------|------------|
| 1. BLENDED HYDRAULIC CEMENTS: | ASTM C595 |
| 2. EXPANSIVE HYDRAULIC CEMENT: | ASTM C845 |
| 3. HYDRAULIC CEMENT: | ASTM C1157 |
| 4. FLY ASH AND NATURAL POZZOLAN: | ASTM C618 |
| 5. SLAG CEMENT: | ASTM C989 |
| 6. SILICA FUME: | ASTM C1240 |
- G. MIXING WATER SHALL CONFORM TO ASTM C1302.
- H. ADMIXTURES MAY BE USED TO INCREASE WORKABILITY OF THE CONCRETE UPON WRITTEN APPROVAL OF THE CONCRETE MANUFACTURER OR THE PROJECT TESTING LABORATORY. TESTING ON CONCRETE SHALL BE DONE PRIOR TO THE ADDITION OF ADMIXTURES.
- I. ADMIXTURES SHALL CONFORM TO THE FOLLOWING:
- | | |
|---|------------|
| 1. WATER REDUCTION AND SETTING TIME MODIFICATION: | ASTM C494 |
| 2. PRODUCING FLOWING CONCRETE: | ASTM C1017 |
| 3. AIR ENTRAINMENT: | ASTM C260 |
| 4. INHIBITING CHLORIDE-INDUCED CORROSION: | ASTM C1528 |
- J. CONCRETE MIXTURE PROPORTIONS SHALL CONFORM WITH ARTICLE 4.2.3 OF ACI 301 AND ESTABLISHED SO CONCRETE CAN BE PLACED READILY WITHOUT SEGREGATION INTO FORMS AND AROUND REINFORCEMENT.
- K. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE SUBMITTED TO E.O.R. FOR REVIEW AND APPROVAL PRIOR TO USING THE MIXTURE AND PRIOR TO MAKING CHANGES TO MIXTURES ALREADY IN USE.
- L. ALL CONCRETE MIXING AND TRANSPORTATION OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ATM C94 AND ASTM C685.
- M. STAIN AND TEXTURE OF EXPOSED CONCRETE SURFACES PER OWNER'S DIRECTION, IF APPLICABLE.
- N. THE SLUMP OF THE CONCRETE SHALL BE BETWEEN:
- | | |
|-----------------------|---------|
| 1. BEAMS/COLUMNS: | 3" ± 1" |
| 2. WALLS/FOUNDATIONS: | 5" ± 1" |
| 3. SLABS-ON-GRADE: | 4" ± 1" |
- O. THE CONCRETE SHALL MEET THE MOST STRINGENT REQUIREMENTS FROM THE FOLLOWING EXPOSURE CLASSES:
- | | |
|---|----------------|
| 1. ALL FOOTINGS, FOUNDATIONS, AND STEM WALLS: | F2, S0, W0, CO |
| 2. INTERIOR SLABS-ON-GRADE: | F2, S0, W0, CO |
| 3. EXTERIOR SLABS-ON-GRADE: | F2, S0, W0, CO |
- P. CONCRETE EXPOSURE CLASSES AND REQUIREMENTS:

EXPOSURE CATEGORY: F						
EXPOSURE CLASS	MAXIMUM w/cm	MINIMUM f'c (psi)	AIR CONTENT (%)	LIMITS ON MAXIMUM PERCENT OF TOTAL CEMENTITIOUS MATERIALS BY MASS		
F0	N/A	2500	N/A	N/A		
F1	0.55	3500	5	N/A		
F2	0.45	4500	6	N/A		
F3	0.40	5000	6	ASTM C618	ASTM C989	ASTM C1240
				25%	50%	10%
				35%		
				50%		
EXPOSURE CATEGORY: S						
EXPOSURE CLASS	MAXIMUM w/cm	MINIMUM f'c (psi)	CEMENTITIOUS MATERIALS			CALCIUM CHLORIDE ADMIXTURE
			ASTM C150	ASTM C595	ASTM C1157	
S0	N/A	2500	N/A	N/A	N/A	N/A
S1	0.50*	4000	II	IP(MS), IS(MS), OR IT(MS)	MS	N/A
S2	0.45	4500	V	IP(HS), IS(HS), OR IT(HS)	HS	NOT PERMITTED
S3	0.45	4500	V + POZZOLAN OR SLAG CEMENT	IP(HS), IS(HS), OR IT(HS) + POZZOLAN OR SLAG CEMENT	HS + POZZOLAN OR SLAG CEMENT	NOT PERMITTED
EXPOSURE CATEGORY: W						
EXPOSURE CLASS	MAXIMUM w/cm	MINIMUM f'c (psi)				
W0	N/A	2500				
W1	0.50	4000				
EXPOSURE CATEGORY: C						
EXPOSURE CLASS	MAXIMUM w/cm	MINIMUM f'c (psi)	MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl ⁻) CONTENT IN NONPRESTRESSED CONCRETE, PERCENT BY WEIGHT OF CEMENT			
C0	N/A	2500	1.00			
C1	N/A	2500	0.30			
C2	0.40	5000	0.15			

*FOR SEAWATER EXPOSURE THE MAXIMUM w/cm RATIO SHALL BE 0.40.

- Q. TEMPERATURE REQUIREMENTS:
- CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE MINIMUM OF 50°F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST 7 DAYS AFTER PLACEMENT.
 - ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR-FREEZING WEATHER.
 - FROZEN MATERIALS OR MATERIALS CONTAINING ICE SHALL NOT BE USED.
 - FORMS, FILLERS, AND GROUND WITH WHICH CONCRETE IS TO COME IN CONTACT SHALL BE FREE FROM FROST AND ICE.
 - CONCRETE SHALL NOT EXCEED A TEMPERATURE MAXIMUM OF 95°F AT THE TIME OF PLACEMENT.
 - HANDLING, PLACING, PROTECTION, AND CURING PROCEDURES SHALL LIMIT CONCRETE TEMPERATURES OR WATER EVAPORATION THAT COULD REDUCE STRENGTH SERVICEABILITY, AND DURABILITY OF THE MEMBER OR STRUCTURE.
 - HOT WEATHER AND COLD WEATHER CONCRETING SHALL BE DONE IN COMPLIANCE WITH THE LATEST EDITION OF ACI 305.1 AND ACI 306.1, RESPECTIVELY.
 - CONCRETE MATERIALS AND PRODUCTION METHODS SHALL BE SELECTED SO THAT THE CONCRETE TEMPERATURE AT DELIVERY COMPLIES WITHIN THE SPECIFIED TEMPERATURE RANGE.
 - THESE PROVISIONS DO NOT PROTECT CONCRETE AGAINST CHEMICALLY AGGRESSIVE SOLUTIONS, CONTACT E.O.R. IF SUCH CONDITIONS APPLY.
 - STEGO WRAP TO BE USED AS VAPOR BARRIER.

T. CONCRETE PLACEMENT:

- STANDING WATER SHALL BE REMOVED FROM PLACE OF DEPOSIT BEFORE CONCRETE IS PLACED UNLESS A TREMIE IS USED.
- MASONRY FILLER UNITS THAT WILL BE IN CONTACT WITH CONCRETE SHALL BE PRE-WETTED PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL NOT BE CONVEYED WITH PIPES, TREMIES, OR CHUTES MADE OF ALUMINUM OR ALUMINIUM ALLOYS.
- CONCRETE SHALL BE PLACED:

 - AT A RATE SO CONCRETE AT ALL TIMES HAS SUFFICIENT WORKABILITY TO BE CONSOLIDATED APPROPRIATELY.
 - WITHOUT SEGREGATION OR LOSS OF MATERIALS.
 - WITHOUT INTERRUPTIONS TO MAINTAIN WORKABILITY BETWEEN SUCCESSIVE PLACEMENTS TO PREVENT AN UNINTENTIONAL COLD JOINT.
 - DEPOSITED AS NEAR TO ITS FINAL LOCATION AS PRACTICABLE TO AVOID SEGREGATION DUE TO REHANDLING OR FLOWING.

- CONCRETE THAT HAS BEEN CONTAMINATED OR HAS LOST ITS INITIAL WORKABILITY TO THE EXTENT THAT IT CAN NO LONGER BE CONSOLIDATED APPROPRIATELY SHALL NOT BE USED.
- RETEMPERING CONCRETE IN ACCORDANCE WITH ASTM C94 SHALL BE PERMITTED AS LONG AS THE LIMITS ON MAXIMUM MIXING TIME AND w/cm ARE NOT VIOLATED.
- AFTER STARTING, CONCRETING SHALL BE A CONTINUOUS OPERATION UNTIL THE COMPLETION OF A PANEL OR SECTION, AS DEFINED BY ITS BOUNDARIES OR PREDETERMINED JOINTS.
- CONCRETE SHALL BE CONSOLIDATED APPROPRIATELY DURING PLACEMENT AND SHALL BE WORKED AROUND REINFORCEMENT AND EMBEDMENTS AND INTO CORNERS OF FORMS.
- TOP SURFACES OF VERTICALLY FORMED LIFTS SHALL BE GENERALLY LEVEL.
- JOINT LOCATIONS OR JOINT DETAILS NOT SHOWN OR THAT DIFFER FROM THOSE INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED FOR REVIEW BY THE E.O.R.
- CONSTRUCTION JOINTS SHALL BE CLEANED AND LAITANCE REMOVED BEFORE NEW CONCRETE IS PLACED.
- SURFACE OF CONCRETE CONSTRUCTION JOINTS SHALL BE INTENTIONALLY ROUGHENED.
- IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE PRE-WETTED AND STANDING WATER REMOVED.
- BEAMS, GIRDER, OR SLABS SUPPORTED BY COLUMNS OR WALLS SHALL NOT BE CAST UNTIL CONCRETE IN THE VERTICAL SUPPORT MEMBERS IS NO LONGER WORKABLE AND SOFT.
- BEAMS, GIRDER, HAUNCHES, DROP PANELS, SHEAR CAPS, AND CAPITALS SHALL BE PLACED MONOLITHICALLY AS PART OF A SLAB SYSTEM, U.N.O.
- SAW CUTTING IN SLABS-ON-GRADE IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AS STRUCTURAL DIAPHRAGMS OR PART OF THE SEISMIC FORCE-RESISTING SYSTEM SHALL NOT BE PERMITTED U.N.O.
- ALUMINUM EMBEDMENTS SHALL BE COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION AND ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
- IN SOLID SLABS, PIPING, EXCEPT FOR RADIANT HEATING OR SNOW MELTING, SHALL BE PLACED BETWEEN TOP AND BOTTOM REINFORCEMENT.
- CONDUIT AND PIPING SHALL BE FABRICATED AND INSTALLED SO THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS SPECIFIED LOCATION IS NOT REQUIRED.

U. FORMWORK:

- FORMWORK SHALL BE DESIGNED, FABRICATED, INSTALLED, AND REMOVED BY CONTRACTOR.
- DESIGN OF FORMWORK SHALL TAKE INTO CONSIDERATION:

 - METHOD OF CONCRETE PLACEMENT.
 - RATE OF CONCRETE PLACEMENT.
 - CONSTRUCTION LOADS, INCLUDING VERTICAL, HORIZONTAL, AND IMPACT.
 - AVOIDANCE OF DAMAGE TO PREVIOUSLY CONSTRUCTED MEMBERS.

- FORMWORK FABRICATION AND INSTALLATION SHALL RESULT IN A FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
- FORMWORK SHALL BE SUFFICIENTLY TIGHT TO INHIBIT LEAKAGE OF PASTE OR MORTAR.
- FORMWORK SHALL BE BRACED OR TIED TOGETHER TO MAINTAIN POSITION AND SHAPE.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL DEVELOP A PROCEDURE AND SCHEDULE FOR REMOVAL OF FORMWORK AND INSTALLATION OF RESHORES AND SHALL CALCULATE THE LOADS TRANSFERRED TO THE STRUCTURE DURING THIS PROCESS.
- STRUCTURAL ANALYSIS AND CONCRETE STRENGTH REQUIREMENTS USED IN PLANNING AND IMPLEMENTING THE FORMWORK REMOVAL AND RESHORE INSTALLATION SHALL BE GIVEN BY THE CONTRACTOR TO THE E.O.R. AND TO THE BUILDING OFFICIAL, WHEN REQUESTED.
- NO CONSTRUCTION LOADS SHALL BE PLACED ON, NOR ANY FORMWORK REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH REMAINING FORMWORK HAS SUFFICIENT STRENGTH TO SUPPORT ITS WEIGHT AND LOADS PLACED ON IT SAFELY AND WITHOUT IMPAIRING SERVICEABILITY.
- NO CONSTRUCTION LOADS EXCEEDING THE COMBINATION OF SUPERIMPOSED DEAD LOAD PLUS LIVE LOAD INCLUDING REDUCTION SHALL BE PLACED ON ANY UNSHORED PORTION OF THE STRUCTURE UNDER CONSTRUCTION, UNLESS ANALYSIS INDICATES ADEQUATE STRENGTH TO SUPPORT SUCH ADDITIONAL LOADS AND WITHOUT IMPAIRING SERVICEABILITY.

7 PRE-MANUFACTURED TRUSSES


- A. MANUFACTURED JOISTS SHALL BE BY REDBUILT, LLC (NO SUBSTITUTIONS ARE ALLOWED).
- B. ALL ROOF OPEN WEB PRE-MANUFACTURED TRUSSES ARE CONSIDERED A "DEFERRED" SUBMITTAL. SHOP DRAWINGS AND STRUCTURAL CALCULATIONS SHALL BE PROVIDED BY THE MANUFACTURER STAMPED AND SIGNED BY THEIR LICENSED E.O.R. IN THE STATE IN WHICH THE PROJECT IS LOCATED. ALL ROOF TRUSSES SHALL BE DESIGNED FOR LOADS SHOWN UNDER "DESIGN CRITERIA". ALL ADDITIONAL LOADS FROM MECH. AND ARCH. MUST BE COORDINATED AND DESIGNED FOR AS WELL, RE: MECH./ARCH. ALL FINAL DOCUMENTS, CALCULATIONS, AND SHOP DRAWINGS MUST BE SUBMITTED TO THE PROJECT E.O.R. FOR REVIEW AND APPROVAL.
- C. TRUSS MANUFACTURER TO VERIFY ALL LOADING PATTERNS TO FOUNDATIONS BELOW.
- D. RE-MANUFACTURED TRUSS PROVIDER TO PROVIDE SUPPORT AT TRUSSES FOR LOADING SHOWN ON ALL PLANS, SECTIONS AND DETAILS.
- E. ALL TRUSS BRIDGING TO BE DENOTED AND PROVIDED BY TRUSS MANUFACTURER IN SUBMITTAL.
- F. TRUSS MANUFACTURER TO DESIGN TRUSSES PER DEFLECTION RATIOS NOTED IN DESIGN CRITERIA OR A MAXIMUM OF 1" OF DEFLECTION.
- G. FOR SPECIFICATIONS ON FIRE RATING OF PRE-MANUFACTURED TRUSSES, RE: ARCH.

ABBREVIATIONS

(E) EXISTING	HT. HEIGHT
(F) FUTURE	HVAC HEATING VENTILATING AND AIR CONDITIONING
(N) NEW	I.D. INSIDE DIAMETER
(R) RENOVATE	IN. INCH
C.G. CENTERLINE	INSUL. INSULATION
Ø DIAMETER OR ROUND	INT. INTERIOR
⊥ PERPENDICULAR	IT. JOINT
□ SQUARE	K.O. KNOCKOUT
B.T. BETWEEN	L.F. LINEAL FEET OR FOOT
A.B. ANCHOR BOLT	L.L.V. LONG LEG VERTICAL
A.F.F. ABOVE FINISH FLOOR	L.L.H. LONG LEG HORIZONTAL
ABV. ABOVE	L.P. LOW POINT
ADJ. ADJUSTABLE	LBS. POUNDS
AGG. AGGREGATE	LAM. LAMINATE
ALT. ALTERNATIVE	LVL. LAMINATED VENEER LUMBER
ALUM. ALUMINUM	M.B. MACHINE BOLT
APPROX. APPROXIMATE	M.H. MAINHOLE
ARCH. ARCHITECTURAL	M.O. MAXIMUM OPENING
B.O. BOTTOM OF	MAX. MAXIMUM
B.O.C. BOTTOM OF CONCRETE	MECH. MECHANICAL
B/T. BETWEEN	MET. METAL
B.N. BOUNDARY NAILING	MT. MANUFACTURER
B.U. BUILT-UP	MIN. MINIMUM
BD. BOARD	MISC. MISCELLANEOUS
BLDG. BUILDING	MTD. MOUNTED
BLK. BLOCK	MTRL. MATERIAL
BM. BEAM	N. NORTH
BT. BOTTOM	N.C. NOT IN CONTRACT
C.C. CENTER TO CENTER	N.S. NEAR SIDE
C.I. CAST IRON	N.O. NOT TO SCALE
C.I.P. CAST IN PLACE	NOM. NOMINAL
CMU. CONCRETE MASONRY UNIT	N.S. NEAR SIDE
CO. CONCRETE OPENING	O/H. OVERHEAD
CEILING	Q. QUINCE
CLR. CLEAR	Q/J. COUNTERSUNK
CONTRSK. COLUMN	O.A. OVER ALL
CONC. CONCRETE	O.C. ON CENTER
CONT. CONTINUOUS	O.D. OUTSIDE DIAMETER
CORR. CORRIDOR	N.S. NEAR SIDE
C.W. COORDINATE WITH	OPPG. OPPOSITE HAND
D. DEEP	OPPG. OPPOSITE
D.B.A. DEFORMED BAR ANCHOR	PART. PARTICLE
DOUGLAS-FIR	P.L. PROPERTY LINE
D.F. DETAIL	PL. PLATE
DIA. DIAMETER	PLYWD. PLYWOOD
DIA.G. DIAGONAL	PRE-ENGINEERED METAL BUILDING
DIM. DIMENSION	PRE-ENG. PRE-ENGINEERED
DN. DOWN	PT. POINT
DWG. DRAWING	P.S.L. PARALLEL STRAND LUMBER
E.B. EXPANSION BOLT	R. RADIUS OR RISER
E.C. ECCENTRICALLY BRACED FRAME	R.O. ROOF RAIN
E.J. EXPANSION JOINT	R.O. ROUGH OPENING
EA. EACH	RE. REFERENCE (CW/ REINFORCED)
EL. ELEVATION	REQD. REQUIRED
ELEV. ELEVATION	RM. ROOM
ENR. ENGINEER OF RECORD	S.C. SOLID CORE
EQ. EQUAL	S.F. SQUARE FEET OR FOOT
EQ. EQUIPMENT	S.S. STAINLESS STEEL
EXP. EXPANSION	SCHED. SCHEDULE
EXT. EXTERIOR	SECT. SECTION
F.B. FLAT BAR	SHED. SHEET
F.D. FLOOR DRAIN	SIM. SIMILAR OR SIMILAR TO SPECIFICATIONS
F.O. FACE OF	SQ. SQUARE
F.O.C. FACE OF CURB/CONCRETE	STD. STANDARD
F.O.F. FACE OF FINISH	STRUC. STRUCTURAL
F.O.M. FACE OF MASONRY	SUSP. SUSPENDED
F.O.S. FACE OF STUDS	SYM. SYMMETRICAL
F.O.T. FACE OF TREAD	T&G. TONGUE & GROOVE
FIN. FINISH	T.O.B. TOP OF BEAM
FLASH. FLASHING	T.O.C. TOP OF CURB/ CONCRETE
F.S. FAR SIDE	T.O.D. TOP OF DECK
FT. FOOT OR FEET	T.O.M. TOP OF MASONRY
FTG. FOOTING	T.O.S. TOP OF SLAB
FTW. FIRE TREATED WOOD	T.O.W. TOP OF WALL
FURR. FURRING	TH. THICKNESS
G. GAUGE OR GAGE	TJI. TRUSS JOIST-JOIST
GALV. GALVANIZED	TYP. TYPICAL
GSN. GENERAL STRUCTURAL NOTES	U.B.C. UNIFORM BUILDING CODE
GYP. GYPSUM	U.O.N. UNLESS OTHERWISE NOTED
H. HIGH	U.N.O. UNLESS NOTED OTHERWISE
H.C.A. HEADED CONCRETE ANCHOR	V.I.F. VERIFY IN FIELD
H.S.S. HOLLOW STRUCTURAL STEEL	VERT. VERTICAL
H.P. HIGH POINT	W. WITH
HORIZ. HORIZONTAL	W/O. WITHOUT
HR. HOUR	WD. WOOD
	W. WIDE
	W.F. WORK POINT
	W.W.F. WELDED WIRE FABRIC

SHEET LIST

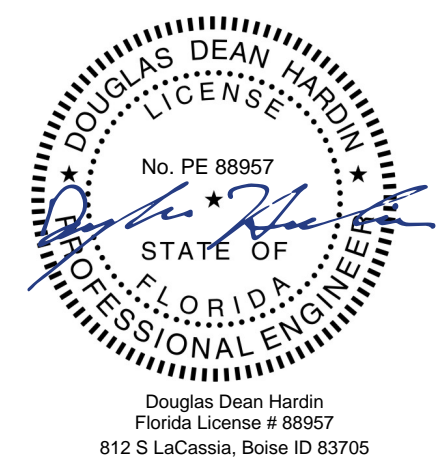
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S0.1	GENERAL STRUCTURAL NOTES
S0.2	TYPICAL DETAILS
S1.0	FOUNDATION PLAN
S1.1	SHEAR WALL PLAN
S2.0	FOUNDATION DETAILS
S2.1	FOUNDATION DETAILS
S2.2	BUILDING SECTIONS
S3.0	ROOF FRAMING PLAN
S3.2	CEILING FRAMING PLAN
S4.0	FRAMING DETAILS
S4.1	FRAMING DETAILS
S4.2	FRAMING DETAILS
S4.3	FRAMING DETAILS
S4.4	FRAMING DETAILS



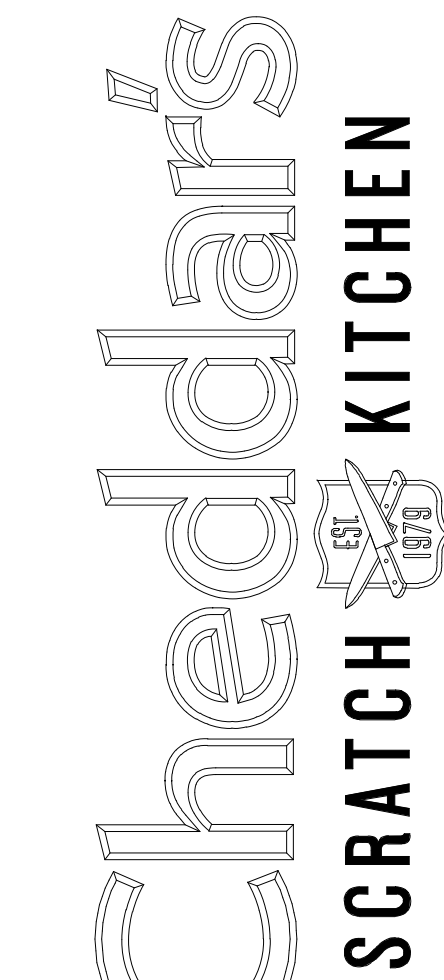
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Issue Date: 11-20-22

REVISION INFORMATION

REV #2 CLIENT COMMENTS 4/5/23

1 POST-INSTALLED ANCHORS

- A. ADHESIVE ANCHORS
- APPROVED ADHESIVE FOR CONCRETE:
 - HILTI HIT-RE 500V3 WITH SAFEST TECHNOLOGY (ICC-ES ESR-3814)
 - HILTI HIT-HY 200 WITH SAFEST TECHNOLOGY (ICC-ES ESR-3187)
 - DEWALT PURE 100 (ICC-ES ESR-3398)
 - SIMPSON SET XP (ICC-ES ESR-2508), (NOT APPROVED FOR >20DIA. EMBEDMENT)
 - APPROVED ADHESIVE FOR GROUTED MASONRY:
 - HILTI HIT-HY 270 (ICC-ES ESR-4143)
 - HILTI HIT-HY 200 (ICC-ES ESR-3963)
 - SIMPSON SET XP (APM) (UES ESR-265)
 - DEWALT AC108+GOLD (ICC-ES ESR-3200)
 - APPROVED ADHESIVE FOR UNGROUTED MASONRY:
 - HILTI HIT-HY 270 (ICC-ES ESR-4143)
 - DEWALT AC108+GOLD (ICC-ES ESR-3200)
 - APPROVED ADHESIVE FOR UNREINFORCED MASONRY OR BRICK:
 - HILTI HIT-HY 270 (ICC-ES ESR-4144)
 - SIMPSON SET (ICC-ES ESR-1772)
 - DEWALT AC108+GOLD (ICC-ES ESR-4105)
 - PLASTIC MESH OR STAINLESS-STEEL SCREEN TUBES SHALL BE USED FOR HOLLOW MASONRY IF INDICATED BY E.O.R. ON STRUCTURAL PLANS.
 - FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS AND CERTIFICATION TESTING REPORTS FOR ADHESIVE INSTALLATION.
 - ALTERNATIVE EPOMES MAY BE USED IF AN (ICC-ES ESR) OR (APM)-UES (ER) APPROVAL FOR USE IN CRACKED CONCRETE IS SUBMITTED TO THE E.O.R. AND APPROVED PRIOR TO USE.
 - UTILIZE HOLE CLEANING AS RECOMMENDED FOR THE PRODUCT BY THE MANUFACTURER, REFER TO THE MANUFACTURED PUBLISHED INSTALLATION INSTRUCTIONS (MPI) FOR INSTALLATION INSTRUCTIONS.
 - EPOXY SHALL BE WITHIN THE MANUFACTURERS RECOMMENDED LIFE TIME AND PRIOR TO EXPIRATION DATE. DO NOT USE EPOXY THAT HAS NOT BEEN STORED PER MANUFACTURER RECOMMENDATIONS AND MAY HAVE EXPERIENCED FREEZE THAW CYCLES OR EXTREME HEAT.
 - DO NOT INSTALL ADHESIVE ANCHORS IN CONCRETE IF CONCRETE IS LESS THAN 21 DAYS OLD, CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE E.O.R. TO INSTALL IN THE 7-21 DAY TIME PERIOD.
 - DO NOT INSTALL ADHESIVE ANCHORS IF SUBSTRATE TEMPERATURE IS BELOW 40 DEGREE F UNLESS EPOXY IS APPROVED FOR LOWER TEMPERATURE. REFER TO MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS (MPI)
 - DO NOT INSTALL ADHESIVE ANCHOR IN WET OR DAMP HOLE UNLESS PRODUCT IS APPROVED FOR SUCH CONDITIONS WITHOUT STRENGTH REDUCTION, CONTACT ENGINEER IF HOLES BECOME WET OR DAMP.
 - ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR VERTICAL OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) (AS CERTIFIED THROUGH ACI/CES) (ACI 318) PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO E.O.R. FOR APPROVAL PRIOR TO INSTALLATION.
 - SHOULD AN ACI CERTIFIED INSTALLER NOT BE AVAILABLE AT A MINIMUM THE INSTALLER SHALL BE TRAINED BY THE MANUFACTURERS EMPLOYED REPRESENTATIVE.
 - INSTALLATION OF ANCHORS SHALL HAVE CONTINUOUS OR PERIODIC INSPECTION IN ACCORDANCE WITH CURRENT IBC AND WHERE DESIGNATED IN THE SPECIAL INSPECTIONS PROGRAM.
 - HOLES WILL BE EPOXY FILLED UTILIZING A "PISTON PLUG" OR EQUIVALENT DEVICE TO ELIMINATE THE POSSIBILITY OF AIR GAPS.
 - BARs AND RODS USED MUST BE DEFORMED OR THREADED FOR THE FULL EMBEDMENT DEPTH EPOXY IS APPLIED.
- B. MECHANICAL ANCHORS
- APPROVED MECHANICAL ANCHORS FOR CONCRETE:
 - HILTI KWIK BOLT TZ (ICC-ES ESR-1917)
 - SIMPSON STRONG-BOLT 2 (ICC-ES ESR-3032)
 - DEWALT POWER-STUD-SD2 (ICC-ES ESR-2927)
 - APPROVED MECHANICAL ANCHORS FOR GROUTED MASONRY:
 - HILTI KWIK BOLT 3 (ICC-ES ESR-1385)
 - SIMPSON WEDGE-ALL (ICC-ES ESR-1395)
 - SIMPSON STRONG-BOLT 2 (APM)-UES (ER-240)
 - DEWALT POWER-STUD-SD2 (ICC-ES ESR-2946)
 - FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS AND CERTIFICATION TESTING REPORTS FOR MECHANICAL ANCHOR INSTALLATION.
 - ALTERNATIVE MECHANICAL ANCHORS MAY BE USED IF AN (ICC-ES ESR) OR (APM)-UES (ER) APPROVAL FOR USE IN CRACKED CONCRETE IS SUBMITTED TO THE STRUCTURAL ENGINEER AND APPROVED PRIOR TO USE.
 - DO NOT INSTALL MECHANICAL ANCHORS IN CONCRETE LESS THAN 7 DAYS OLD. CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE ENGINEER TO INSTALL IN THE 7-21 DAY TIME PERIOD.
- C. SCREW ANCHORS
- APPROVED SCREW ANCHORS FOR CONCRETE:
 - HILTI KWIK HUS-E2 (ICC-ES ESR-3027)
 - SIMPSON TITEN HD (ICC-ES ESR-2713)
 - DEWALT SCREW BOLT+ (ICC-ES ESR-3889)
 - APPROVED SCREW ANCHORS FOR GROUTED MASONRY:
 - HILTI KWIK HUS-E2 (ICC-ES ESR-3056)
 - SIMPSON TITEN HD (ICC-ES ESR-1056)
 - DEWALT WEDGE-BOLT+ (ICC-ER ESR-2526)
 - FOLLOW ALL OF THE MANUFACTURER'S RECOMMENDATIONS AND CERTIFICATION TESTING REPORTS FOR SCREW ANCHOR INSTALLATION.
 - ALTERNATIVE SCREW ANCHORS USED IN CONCRETE APPLICATION MAY BE USED IF AN (ICC-ES ESR) OR (APM)-UES (ER) APPROVAL FOR USE IN CRACKED CONCRETE IS SUBMITTED TO THE E.O.R. PRIOR TO USE.
 - ALTERNATIVE SCREW ANCHORS USED IN GROUTED MASONRY APPLICATION MAY BE USED IF AN (ICC-ES ESR) OR (APM)-UES (ER) APPROVAL FOR USE IN GROUTED MASONRY IS SUBMITTED TO THE E.O.R. AND APPROVED PRIOR TO USE.
- D. POWDER ACTUATED FASTENERS
- APPROVED POWDER ACTUATED FASTENERS DRIVEN INTO STEEL:
 - HILTI XU P8 TH UNIVERSAL KNURLED SHANK FASTENER (ICC-ES ESR-2269)
 - SIMPSON POPA DRIVE PIN (ICC-ES ESR-2138)
 - DEWALT 8MM HEAD SPIRAL CS DRIVE PIN (ICC-ES ESR-2024)
 - APPROVED POWDER ACTUATED FASTENERS DRIVEN INTO CONCRETE:
 - HILTI XU UNIVERSAL KNURLED SHANK FASTENER (ICC-ES ESR-2269)
 - SIMPSON POPA (ICC-ES ESR-2138)
 - DEWALT 8MM HEAD SPIRAL CS DRIVE PIN (ICC-ES ESR-2024)
 - APPROVED POWDER ACTUATED FASTENERS DRIVEN INTO MASONRY:
 - HILTI XU UNIVERSAL KNURLED SHANK FASTENER (ICC-ES ESR-2269)
 - SIMPSON POPA (ICC-ES ESR-2138)
 - FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND CERTIFICATION TESTING REPORTS FOR POWDER ACTUATED FASTENER INSTALLATION.
 - ALTERNATIVE POWDER ACTUATED FASTENERS MAY BE USED IF AN (ICC-ES ESR) OR (APM)-UES (ER) APPROVAL FOR USE IN STEEL IS SUBMITTED TO THE E.O.R. AND APPROVED PRIOR TO USE.
 - ALTERNATIVE POWDER ACTUATED FASTENERS MAY BE USED IF AN (ICC-ES ESR) OR (APM)-UES (ER) APPROVAL FOR USE IN CRACKED CONCRETE IS SUBMITTED TO THE E.O.R. AND APPROVED PRIOR TO USE.
 - ALTERNATIVE POWDER ACTUATED FASTENERS MAY BE USED IF AN (ICC-ES ESR) OR (APM)-UES (ER) APPROVAL FOR USE IN MASONRY IS SUBMITTED TO THE E.O.R. AND APPROVED PRIOR TO USE.
 - ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY MANUFACTURER OR SUCH OTHER METHOD AS APPROVED BY THE E.O.R. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE E.O.R. PRIOR TO USE. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
 - REFER TO STRUCTURAL DRAWINGS FOR EMBEDMENT DEPTH, ROD TYPE AND SIZE, AND OTHER SPECIFIC INFORMATION.
 - DO NOT APPLY LOAD TO ANCHOR UNTIL CONCRETE OR GROUT HAS REACHED FULL DESIGN STRENGTH.
 - ALL HOLES SHALL BE DRILLED WITH ANSI STANDARD BIT DESIGNED FOR CONCRETE OR HOLLOW DRILL BIT, DIAMOND CORED HOLES ARE NOT ALLOWED UNLESS INDICATED IN DESIGN DETAIL OR PRE-APPROVED BY THE E.O.R.
 - ABANDONED HOLES - NO ANCHOR SHALL BE INSTALLED WITHIN 1.5 ROD DIAMETERS OF AN ABANDONED HOLE THAT HAS BEEN GROUT FILLED, (3.0 ROD DIAMETERS FOR UN-GROUTED HOLES).
 - OVER DRILL BAR DIAMETER BY 3/16" U.N.O. BY THE MANUFACTURER AND TO THE REQUIRED DEPTH AS INDICATED ON THE STRUCTURAL DRAWINGS.
 - REMOVE ALL DIRT, DUST, WATER AND ICE FROM DRILLED HOLES BEFORE INSTALLATION.
 - REMOVE ANY DIRT, DUST, RUST OR OIL ON BAR OR ROD BEFORE INSTALLATION U.N.O.
 - ALL MANUFACTURERS RECOMMENDATIONS SHALL BE FOLLOWED EXACTLY.

2 PLYWOOD SHEATHING

- A. PANEL REQUIREMENTS:
- SHEATHING SHALL BE INSTALLED IN ACCORDANCE WITH APA RECOMMENDATIONS AND THE LATEST IBC CODE.
 - ORIENTED STRAND BOARD (OSB) OF THE SAME STRENGTH EQUIVALENCE CAN BE SUBSTITUTED FOR PLYWOOD.
 - WALL SHEATHING MAY BE INSTALLED VERTICALLY OR HORIZONTALLY. ROOF/FLOOR SHEATHING TO BE INSTALLED HORIZONTALLY. ALL SHEATHING SHALL BE PLACED PERPENDICULAR TO THE FRAMING WITH STAGGERED END JOINTS AT 4'-0".
 - NO SHEATHING PANEL LESS THAN 24" WIDE IN ANY DIRECTION SHALL BE USED.
 - SHEATHING SHALL BE A MINIMUM OF 7/16" THICK FOR WALL, 3/4" THICK FOR ROOF AND 3/4" THICK FOR FLOOR, U.N.O.
 - PROVIDE 1/8" SPACE AT ALL SHEATHING PANEL EDGES FOR EXPANSION/SHRINKAGE. USE OF SIMPSON PSLC PANEL SHEATHING CLIPS, OR APPROVED EQUIVALENT IS ACCEPTABLE.
 - INTERMEDIATE FRAMING AND BLOCKING TO BE 2X NOMINAL MEMBERS MINIMUM, U.N.O. BLOCKING IS REQUIRED AT ALL PANEL EDGES.
 - ALL SHEATHING SHALL HAVE AN EXPOSURE DURABILITY OF EXPOSURE 1, UNLESS PANELS ARE SUBJECT TO PERMANENT EXPOSURE TO WEATHER OR MOISTURE, THEN PANELS SHALL HAVE AN EXPOSURE DURABILITY OF EXTERIOR.
 - ALL SHEATHING SHALL HAVE A MINIMUM SPAN RATING OF (24/36) U.N.O. AND NO LESS THAN THE TYPICAL FRAMING SPACING LISTED ON PLANS.
 - ALL PLYWOOD, SHEATING AND DECKING TO BE, "2IP SHEATHING SYSTEM" AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- B. FASTENER REQUIREMENTS:
- SHEATHING SHALL HAVE THE FOLLOWING MINIMUM FASTENER SIZE, SPACING AND PATTERN:
 - WOOD FRAMED WALLS - 10d NAILS, 6" O.C. AT PANEL EDGES AND 12" O.C. @ INTERMEDIATE SUPPORTS, U.N.O.
 - WOOD FRAMED ROOF/FLOOR DIAPHRAGMS - 10d NAILS, 6" O.C. AT PANEL EDGES AND 12" O.C. @ INTERMEDIATE SUPPORTS, U.N.O.
 - LIGHT GAUGE FRAMED WALLS - #8 SMS SCREWS, 6" O.C. AT PANEL EDGES AND 12" O.C. @ INTERMEDIATE SUPPORTS, U.N.O.
 - THE MINIMUM EDGE DISTANCE FOR NAILS IN THE RECEIVING MEMBERS AND SHEATHING SHALL BE 3/8" FOR 2" NOMINAL RECEIVING MEMBERS AND 1/2" FOR 3" OR LARGER NOMINAL RECEIVING MEMBERS.
 - UNLESS OTHERWISE NOTED, FRAMING CLIPS ARE EITHER 43S OR LTPA, OR APPROVED EQUIVALENT. USE 1-1/2" LONG NAILS TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 2-1/2" NAILS WHEN CLIPS ARE INSTALLED OVER SHEATHING.
 - STAGGER ALL EDGE NAILS AT PANEL JOINTS WHERE SHEATHING IS APPLIED TO BOTH FACES OF A WALL.
 - FLOOR SHEATHING SHALL BE BONDED W/ INTERMEDIATE OR EXTERIOR GLUE, IN ADDITION TO MECHANICAL FASTENERS.
 - DRIVE NAILS FLUSH WITH PANEL SURFACE. DO NOT FRACTURE SURFACE BY OVERDRIVING NAILS. SUPPLEMENT ANY OVERDRIVEN NAILS BY ADDING AN EQUAL NUMBER FOR PROPERLY DRIVEN NAILS IN NEW HOLES. ANY SHINER OR NAILS THAT MISS FRAMING MEMBERS WHEN ATTACHING SHEATHING CAN REMAIN. HOWEVER, ADDITIONAL NAILS ARE REQUIRED WHICH DIRECTLY ATTACHED THE SHEATHING TO THE FRAMING PER SPACING LISTED ON PLANS.

3 WOOD FRAMING

- A. ALL WOOD CONSTRUCTION SHALL CONFORM TO REQUIREMENTS SET FORTH IN THE LATEST NDS, "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION", AND THE LATEST AF&PA, "AMERICAN FOREST & PAPER ASSOCIATION REFERENCE STANDARDS.
- B. ALL STRUCTURAL LUMBER SHALL BE SPRUCE PINE FIR (SPF) #2/#3 OR BETTER, U.N.O. ALL INTERIOR NON-LOAD BEARING WALLS CAN BE SPF STUD GRADE. ALL STRUCTURAL LUMBER SHALL BE MARKED AND GRADED BY AN APPROVED GRADING INSPECTION AGENCY.
- C. ALL STRUCTURAL WOOD FRAMING AND CONNECTIONS SHALL MEET THE REQUIREMENTS PROVIDED IN THE INTERNATIONAL BUILDING CODE, CHAPTER 23, TABLE 2304.9.1, TYPICAL.
- D. PNEUMATIC NAILING SHALL BE PLAIN SHANK, COATED OR GALVANIZED:
 - 8d = 0.131" DIA. x 2 1/2" MIN. LENGTH
 - 10d = 0.148" DIA. x 3" MIN. LENGTH
 - 16d = 0.162" DIA. x 3 1/2" MIN. LENGTH
- E. HAND NAILING SHALL BE SINKERS, COATED:
 - 8d = 0.131" DIA. x 2 3/8"
 - 10d = 0.148" DIA. x 2 7/8"
 - 16d = 0.162" DIA. x 3"
- F. ALL METAL HANGERS AND CONNECTIONS ARE NOTED AS 'SIMPSON STRONG-TIE' AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, U.N.O. AN APPROVED EQUIVALENT MAY BE USED INSTEAD WITH PRIOR APPROVAL FROM THE STRUCTURAL EOR.
- G. PROVIDE WET USE ADHESIVES.
- H. ALL PLATES AND WOOD INSTALLED WITHIN 1" OF CONCRETE OR MASONRY SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE (SYP) OR HAVE SUFFICIENT WEATHER RESISTANT PROPERTIES.
- I. MAXIMUM LUMBER MOISTURE CONTENTS SHALL BE 15%.
- J. ALL FRAMING DETAILS SHALL BE IN ACCORDANCE WITH THE ADOPTED CODE.
- K. PROVIDE SOLID BLOCKING BELOW ALL BEARING WALLS AND POSTS. PROVIDE BLOCKING @ 24" O.C. @ JOISTS PARALLEL WITH BEARING WALLS ABOVE.
- L. BLOCK AND NAIL ALL HORIZONTAL PANEL EDGES AT SHEAR WALLS.
- M. PROVIDE STEEL STRAPS AT PIPES IN STUD WALLS AS REQUIRED BY THE ADOPTED CODE.
- N. OVER-FRAMING SHALL BE DONE SUCH THAT VERTICAL LOADS ARE TRANSFERRED TO MAIN STRUCTURE BELOW BY DIRECT BEARING AT SPACING NOT TO EXCEED 24" O.C.
- O. ALL WINDOW SIZES IN EXTERIOR WOOD WALLS ARE NOMINAL; VERIFY ACTUAL OPENINGS WITH WINDOW MANUFACTURERS, RE: ARCH.
- P. ALL ROOF OPENINGS GREATER THAN 12"x12" SHALL BE FRAMED IN OPENINGS.
- Q. ALL FASTENERS IN PRESSURE TREATED WOOD MUST MEET THE REQUIREMENTS OF IBC 2304.9.5.
- R. ALL LAMINATED VENEER LUMBER SHALL BE 1-LEVEL MICROLAM UVL AND SHALL HAVE THE FOLLOWING MINIMUMUM SECTION PROPERTIES (SUBSTITUTIONS ARE ALLOWED WITH PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL E.O.R.)
 - FB = 2,600 PSI
 - FV = 385 PSI
 - E = 2,000,000 PSI
- S. ALL INTERIOR NON-LOAD BEARING WALLS SHALL HAVE MIN. (2) 2x10 FOR HEADERS. SEE ARCH. FOR LOCATIONS.
- T. GLUE LAMINATED BEAMS SHALL BE SOUTHERN PINE COMBINATION 24F-V4 FOR SIMPLE SUPPORTED AND 24F-V8 FOR CANTILEVERED BEAMS AND MULTI-SPAN CONDITIONS, U.N.O. MEMBERS SHALL BE MANUFACTURED USING WATERPROOF ADHESIVES AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AITC A190, 1-2022 OR APPROVED EQUIVALENT. ANY HOLES AND/OR NOTCHES IN THE BEAMS SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC). BEAMS SHALL BE ARCHITECTURAL APPEARANCE GRADE U.N.O. AND SHALL HAVE THE FOLLOWING MIN. SECTION PROPERTIES: FB = 2400 PSI, FV = 210 PSI, E = 1,700,000 PSI. PROVIDE WET USE GLUE ON ALL EXTERIOR LOCATIONS.
- U. FOR SPECIFICATIONS ON FIRE RATING OF WOOD, RE: ARCH.

4 TYPICAL LUMBER NAILING SCHEDULE

NAILING SHOWN IS TYPICAL EXCEPT AS NOTED ON PLANS. USE COMMON NAILS.

- JOIST TO SILL OF GIRDER, TOENAILS 3-8d
- BRIDGING TO JOIST, TOE NAIL EACH END 2-8d
- 1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL 2-8d
- WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL 3-8d
- 2" SUBFLOOR TO JOIST OR GIRDER, BUNG AND FACE NAIL 2-16d
- SOLE PLATE TO JOIST OR BRIDGING, FACE NAIL 16" O.C. 16d AT
- TOP PLATE TO STUD, END NAIL 2-16d
- STUD TO SOLE PLATE NAILS OR 4-8d TOE NAILS 2-16d END
- DOUBLE STUDS, FACE NAIL 12" O.C. 16d AT
- DOUBLED TOP PLATES, FACE NAIL 16" O.C. 16d AT
- TOP PLATES, LAPS AND INTERSECTIONS, FACE NAILS 2-16d
- CONTINUOUS HEADER, TWO PIECES 16" O.C. ALONG EA. EDGE 16d AT
- CEILING JOISTS TO PLATE, TOE NAIL 3-8d
- CONTINUOUS HEADER TO STUD, TOE NAIL 4-8d
- CEILING JOISTS, LAPS OVER PARTITIONS, FACE WALL 3-16d
- CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL 3-16d
- RAFTER TO PLATE, TOENAIL 2-8d
- 1" BRACE TO EACH STUD AND PLATE, FACE NAIL 2-8d
- 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL 2-8d
- WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL 3-8d
- BUILT-UP CORNER STUDS 24" O.C. 16d AT
- BUILT-UP GIRDER AND BEAMS 32" O.C. AT TOP & BOTTOM 2-20d AT
- 2" PLANKS EACH BEARING 2-16d AT

5 STRUCTURAL OBSERVATIONS

- A. PER IBC SECTION 1709, STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY A REPRESENTATIVE FROM THE ENGINEER OF RECORD'S OFFICE (TAMARACK GROVE ENGINEERING, PLLC) OR AN APPOINTED REPRESENTATIVE TO PERFORM ON-SITE STRUCTURAL OBSERVATION VISITS DURING SIGNIFICANT TIMES OF CONSTRUCTION-RELATED TO OUR DEFERRED SUBMITTAL SCOPE OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL SIGNIFICANT TIMES OF CONSTRUCTION WITH THE ENGINEER OF RECORD AT THE TIME OF THE PROJECT'S SUBSTANTIAL COMPLETION. PRIOR TO REQUESTING THE SUMMARY OF STRUCTURAL OBSERVATION REPORTS FROM THE ENGINEER OF RECORD, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT AND ENGINEER OF RECORD A LETTER STATING THAT ALL OUTSTANDING ITEMS NOTED ON PREVIOUS STRUCTURAL OBSERVATION REPORTS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, ADDENDUMS, REVISIONS, RFIs AND/OR WRITTEN INSTRUCTIONS.
- B. STRUCTURAL OBSERVATIONS REQUIRED IN OBSERVANCE OF SECTION 1704 OR PER LOCAL JURISDICTION.

6 SPECIAL INSPECTIONS & TESTING (QUALITY ASSURANCE PLAN)

- A. GENERAL:
- INDEPENDENT TESTING LAB SHALL BE RETAINED BY OWNER TO PROVIDE INSPECTIONS AND SPECIAL INSPECTIONS AS DESCRIBED HEREIN.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ON SITE ACCESS TO ALL REQUIRED INSPECTIONS AND NOTIFIES TESTING LAB IN TIME TO PERFORM SUCH INSPECTIONS PRIOR.
 - DO NOT COVER WORK REQUIRED TO BE INSPECTED PRIOR TO INSPECTION BEING MADE. IF WORK IS COVERED, CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING AS NECESSARY.
 - THE CONTRACTOR SHALL CORRECT ALL DEFICIENCIES AS NOTED WITHIN THE SPECIAL INSPECTION REPORTS AND/OR THE ENGINEER OF RECORD'S FIELD OBSERVATION (STRUCTURAL OBSERVATIONS) REPORTS TO BRING THE CONSTRUCTION INTO COMPLIANCE WITH THE CONTRACT DOCUMENTS, ADDENDUMS, REVISIONS, RFIs AND/OR WRITTEN INSTRUCTIONS. THE CONTRACTOR IS RESPONSIBLE TO REQUEST SUMMARY REPORTS FROM THE SPECIAL INSPECTOR AND ENGINEER OF RECORD AT THE TIME OF THE PROJECT'S SUBSTANTIAL COMPLETION. PRIOR TO REQUESTING THE SUMMARY OF STRUCTURAL OBSERVATION REPORTS FROM THE ENGINEER OF RECORD, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT AND ENGINEER OF RECORD A LETTER STATING THAT ALL OUTSTANDING ITEMS NOTED ON PREVIOUS STRUCTURAL OBSERVATION REPORTS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, ADDENDUMS, REVISIONS, RFIs AND/OR WRITTEN INSTRUCTIONS.
- B. SPECIAL INSPECTIONS:
- ALL SPECIAL INSPECTIONS SHALL BE PERFORMED TO MEET THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS RECOMMENDED BY THE LOCAL BUILDING JURISDICTION.
 - REQUIRED SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED TESTING LABORATORY EMPLOYED BY THE OWNER PER SECTION 1709 OF THE 2018 IBC FOR THE AREAS INDICATED IN THE SPECIAL INSPECTIONS PROGRAM NOTES.
 - THE INDEPENDENT CERTIFIED TESTING LABORATORY AND INSPECTORS SHALL BE A QUALIFIED PERSON WHO SHALL SHOW COMPETENCE TO THE SATISFACTION OF THE LOCAL BUILDING OFFICIAL, OWNER, ARCHITECT AND ENGINEER OF RECORD FOR THE PARTICULAR OPERATION. ALL SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT, ARCHITECT AND ENGINEER OF RECORD STATING THE PROJECT NAME AND ADDRESS.
 - THE CONTRACTOR AND SPECIAL INSPECTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY ITEMS NOT COMPLYING WITH THE PROJECT SPECIFICATIONS, CONTRACT DOCUMENTS AND/OR APPLICABLE CODES BEFORE PROCEEDING WITH ANY WORK INVOLVING THAT ITEM. THE ENGINEER OF RECORD WILL REVIEW THE ITEM AND DETERMINE ITS ACCEPTABILITY. IF WORK INVOLVING THAT ITEM PROCEEDS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD, THEN THE WORK WILL BE CONSIDERED NON-COMPLIANT.
- C. SPECIAL INSPECTIONS PROGRAM NOTES:
- ITEMS CHECKED WITH # SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM A TESTING AGENCY APPROVED BY THE BUILDING OFFICIAL.
 - THE CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PROGRAM, SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT PER IBC SECTION 1706.1.
 - SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR MEETING THE REQUIREMENTS OF IBC SECTION 1704.2.2.
 - THE SPECIAL INSPECTOR SHALL PROVIDE A COPY OF THEIR REPORT TO THE BUILDING OFFICIAL, OWNER, ARCHITECT, ENGINEER OF RECORD AND CONTRACTOR.
 - CONTINUOUS SPECIAL INSPECTION MEANS FULL-TIME OBSERVATION OF THE WORK REQUIRING SPECIAL INSPECTION BY THE APPROVED SPECIAL INSPECTOR PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
 - PERIODIC SPECIAL INSPECTION MEANS PART-TIME OR INTERMITTENT INSPECTIONS OF THE WORK AT INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTIONS IS IN CONFORMANCE WITH THE APPROVED PERMIT CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
 - ALL STRUCTURAL SHOP AND FIELD WELDS SHALL BE VISUALLY INSPECTED. THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING, EXCEPT AS NOTED. PROVIDED THE MATERIALS, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS ARE VERIFIED PRIOR TO THE START OF THE WORK. PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS; AND A VISUAL INSPECTION OF ALL WELDS IS MADE AFTER COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING.
 - THE CONTRACTOR SHALL SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) IN ACCORDANCE WITH AWS 5.1.2 FOR REVIEW BY THE SPECIAL INSPECTOR PRIOR TO BEGINNING ANY WORK. THE WPS SHALL INCLUDE ALL INFORMATION RECOMMENDED IN THE SAMPLE FORM OF APPENDIX E OF THE AWS CODE INCLUDING RECOMMENDATIONS FROM THE ELECTRODE MANUFACTURER, PROPOSED METHOD OF BASE METAL PREPARATIONS, BACK GROUTING SEQUENCE, METHOD OF PLACEMENT OF NEW WELD MATERIALS, BACKER PLATE AND RUNOFF TAB REMOVAL AND FINAL FINISHING.
 - THE INSPECTOR SHALL VERIFY WELDER QUALIFICATIONS, WPS, WELDING PROCESS, ELECTRODE, ASSEMBLY CONFIGURATION, FIT-UP TOLERANCE (1/16 INCH MAXIMUM), PREHEAT AND INTERPASS TEMPERATURE AND PREPARATION OF ALL STEEL SURFACES. ALL STRUCTURAL WELDING REQUIREMENTS SHALL BE PERFORMED BY A CERTIFIED WELDER, MEETING ALL OF THE LOCAL BUILDING JURISDICTION REQUIREMENTS.
 - ALL WELDING REINFORCING TO BE ASTM A706, GRADE 60.
 - ALL BIDDER DESIGNED/DEFERRED SUBMITTAL COMPONENTS, WHERE SHOWN, SHALL INCLUDE A QUALITY ASSURANCE PROGRAM FOR SPECIAL INSPECTIONS WHERE REQUIRED BY IBC SECTION 1707.1.
 - PER IBC SECTION 1707.4, PERIODIC SPECIAL INSPECTIONS IS REQUIRED FOR NAIL ATTACHMENTS, BOLTING, ANCHORING 1 AND OTHER FASTENING COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING LATERAL WALL BRACING AND HOLLOWDENS.

7 GENERAL STRUCTURAL NOTES

- A. ALL ELEVATIONS AND HEIGHTS GIVEN ARE FROM THE FINISHED FLOOR DATUM ELEVATION, WHICH IS SET AT 100' 0".
- B. DO NOT SCALE DRAWINGS, CONTACT A.O.R. OR E.O.R. FOR DIMENSION CLARIFICATIONS PRIOR TO CONSTRUCTION.
- C. VERIFY ALL OPENINGS, BUILDING DIMENSIONS, COLUMN GRID LOCATIONS AND DIMENSIONS WITH OWNER PRIOR TO POURING OF ANY CONCRETE FOUNDATIONS OR CONSTRUCTION.
- D. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS SUCH CHANGES ARE AUTHORIZED IN WRITING BY THE PROJECT ENGINEER OF RECORD.
- E. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING AND/OR TEMPORARY STRUCTURAL STABILITY FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR FINAL CONFIGURATION.
- F. NOTCHING AND/OR CUTTING OF ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED, UNLESS PRIOR CONSENT IS GIVEN BY THE STRUCTURAL ENGINEER OF RECORD.
- G. IT IS NECESSARY THAT THE STRUCTURAL DRAWINGS BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS TO HAVE A COMPLETE SCOPE OF WORK INVOLVED IN THIS PROJECT.

8 SHOP DRAWINGS & DEFERRED SUBMITTALS

- A. DEFERRED SUBMITTALS ITEMS PER IBC 107.3.4.1 SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. ALL DEFERRED SUBMITTALS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE THE PROJECT IS LOCATED IN. (SPECIALTY ENGINEER) AND SHALL BE THE SOLE RESPONSIBILITY OF THE SPECIALTY ENGINEER INCLUDING, BUT NOT LIMITED TO, DESIGN, COORDINATION, DIMENSIONS, AND INTENDED PURPOSE. DEFERRED SUBMITTAL ITEMS SHALL INCLUDE A QUALITY ASSURANCE PLAN AS REQUIRED BY CHAPTER 17 OF THE IBC. REVIEW BY THE ENGINEER OF RECORD SHALL BE FOR GENERAL CONFORMANCE TO THE DESIGN LOADING CRITERIA SET FORTH ON THE CONTRACT DRAWINGS AND SPECIFICATIONS. THE DEFERRED SUBMITTALS ITEMS SHALL NOT BE FABRICATED OR INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED BY THE ENGINEER OF RECORD AND APPROVED BY THE BUILDING OFFICIAL.
- B. FOR REVIEW BY THE ENGINEER OF RECORD:
- DEFERRED SUBMITTAL/SHOP DRAWINGS LIST:
 - PRE-MANUFACTURED ROOF TRUSS LAYOUTS AND ENGINEERING.
 - STEEL FABRICATION SHOP DRAWINGS

9 MASONRY/STONE VENEER

- A. 8" WALLS, SPECIFIED COMPRESSIVE STRENGTH, f'm= 2,000 PSI
- MASONRY UNITS = ASTM C-90, GRADE N, f'm = 2,000 PSI MIN. NORMAL WEIGHT BLOCK.
 - MORTAR = ASTM C-270, TYPE S, MIN. COMPRESSIVE STRENGTH OF 1,500 PSI, U.N.O.
 - GROUT STRENGTH = 2,000 PSI MIN, U.N.O.
- B. REBAR USED = ASTM A615, GRADE 60 WHERE WELDING REQUIRED USE ASTM A706, GRADE 60.
- C. ALL REINFORCING SHALL BE CENTERED IN WALL, U.N.O.
- D. ALL CMU WALLS SHALL BE RUNNING BOND, U.N.O.
- E. REINFORCING BAR LAP = 30 BAR DIAMETERS
- F. TYPICAL REINFORCING SHALL BE #4 VERT. BARS AT 16" O.C. W/ #4 HORIZ. BARS IN CMU BOND BEAM AT 4'-0" O.C., U.N.O.
- G. SPECIAL INSPECTIONS ARE REQUIRED ON A CONTINUOUS BASIS.
- H. THE TYPICAL LINTEL OVER OPENINGS IN THE WALL SHALL HAVE (2) SETS OF (2) #5 BARS EQUALLY SPACED FOR 8" WALLS, U.N.O.
- I. LAP ALL BOND BEAMS WHERE STEPPED 4'-0"
- J. THERE SHALL BE A MIN. OF (1) #4 BAR ON ALL SIDES OF, AND ADJACENT TO, EVERY OPENING WHICH IS LESS THAN 48" IN BOTH DIRECTIONS, WHERE THE OPENINGS ARE 48" OR GREATER IN EITHER DIRECTION, A MIN. OF (2) #5 BAR SHALL BE USED, AND SUCH BARS SHALL EXTEND NOT LESS THAN 24" BEYOND THE CORNER OF THE OPENINGS, U.N.O. AS SHOWN.
- K. AT CORNERS AND WALL INTERSECTIONS, GROUT THE ADJACENT CORNERS WITH A VERTICAL BAR AND LAP THE BOND BEAM STEEL OR PROVIDE CORNER BARS OF EQUAL SIZE.
- L. ALL DOWELS FROM THE FOUNDATION WALL SHALL MATCH SIZE AND LOCATION OF VERTICAL REINFORCING IN MASONRY, U.N.O. EXTEND DOWEL A MIN. OF 30 BAR DIAMETERS INTO THE FOUNDATION.
- M. VERTICAL CONTROL JOINT SHALL BE PROVIDED IN THE WALLS AS SHOWN ON THE ELEVATIONS
- N. THE MASONRY CONTRACTOR SHALL COORDINATE THE PLACING OF ANY OPENINGS WITH THE GENERAL CONTRACTOR, RE: ROOF PLAN.
- O. COORD. WITH ARCH. SHEETS FOR TYPE OF BLOCK USED.
- P. ALL CMU WALLS ABOVE GRADE ARE TO BE PARTIALLY GROUTED, U.N.O. ALL CMU CELLS RECEIVING REINFORCEMENT, ANCHOR BOLTS OR H.C.A. SHALL BE SOLID GROUTED.
- Q. ALL CMU WALLS BELOW GRADE / FINISHED FLOOR ARE TO BE SOLID GROUTED, HIGH STRENGTH BLOCK & TYPE "N" MORTAR, U.N.O.
- R. WET SETTING OF REINFORCING BARS IN FOOTINGS AND WALLS IS NOT ALLOWED.
- S. ALL CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH GROUT. GROUT SHALL BE A WORKABLE MIXTURE SUITABLE FOR PUMPING WITHOUT SEGREGATION AND SHALL BE THOROUGHLY MIXED. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED, BUT BEFORE WORKABILITY IS LOST. THE GROUTING OF A WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.

10 LIGHT GAUGE STEEL FRAMING

- MEMBER REQUIREMENTS:

A. DESIGN, FABRICATION AND DIRECTION OF LIGHT GAUGE STEEL FRAMING SHALL CONFORM TO THE SPECIFICATIONS AND STAND OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI) AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, INCLUDING ALL APPLICABLE AMENDMENTS.

B. FRAMING MEMBER AND ACCESSORIES SHALL CONFORM TO:

 - 16 GAUGE AND HEAVIER =ASTM A1003, GR. 50
 - GALVANIZED =ASTM A 653, GR. 50
 - PAINTED =ASTM A 570, GR. 50
 - 18 GAUGE AND LIGHTER =ASTM A1003, GR. 33
 - GALVANIZED =ASTM A 653, GR. 33
 - PAINTED =ASTM A 570, GR. C.

C. FOR MEMBERS 54 MILS (16 GAUGE) THICK OR THICKER, ALL STRUCTURAL MEMBERS SHALL HAVE A MIN. YIELD STRENGTH OF 50 KSI, U.N.O. ALL THINNER SHALL HAVE MIN. YIELD STRENGTH OF 33 KSI.

D. ALL CONT. TRACKS SHALL BE UNPUNCHED AND MATCH STUD GAUGE U.N.O.

E. ALL MEMBERS SHALL CONFORM TO THE SECTION PROPERTIES TABLE OF STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) (CPO-ER-464P)

F. WALL STUD BRIDGING AS RECOMMENDED BY MFR SHALL BE INSTALLED AT 4'-0" O.C. TO PREVENT BOTH WEAK AXIS BENDING AND STUD ROTATION. WALLS 8'-0" OR SHORTER SHALL HAVE A SINGLE ROW OF BRIDGING AT MID-HEIGHT. ADDITIONALLY, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND WHERE NOTED ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LBU OR BRIDGING WHERE NOTED ON THE DRAWINGS. WALL STUD BRIDGING ONLY REQUIRED WHEN WALL SHEATHING (DR/WALL IS NOT PROVIDED ON EITHER SIDE.

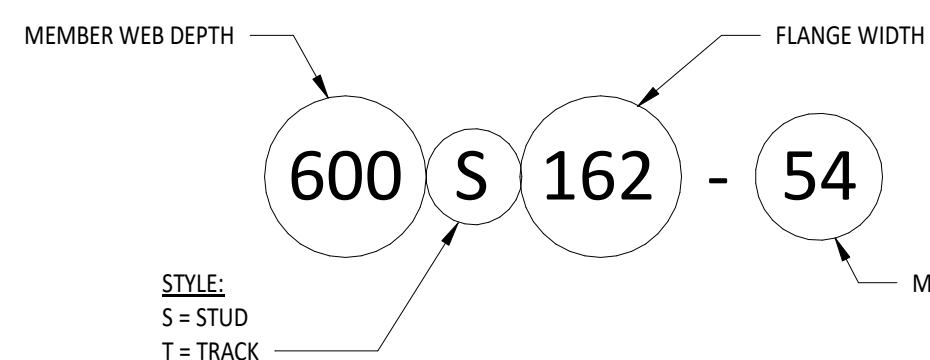
G. ALL MEMBERS SHALL BE ERECTED PLUMB AND BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK, U.N.O.

H. SPACING OF AXIALLY LOADED STUDS OR BRACING IS NOT PERMITTED.

I. FRAMING COMPONENTS SHALL BE CUT SQUARELY OR TO THE EXACT ANGLE TO TIGHT FIT THE ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY UNTIL PROPERLY FASTENED.

J. PROVIDE BACK-TO-BACK OR NESTED MEMBERS AT ALL JAMBS, CORNERS, INTERSECTIONS AND BEAM BEARING, U.N.O.

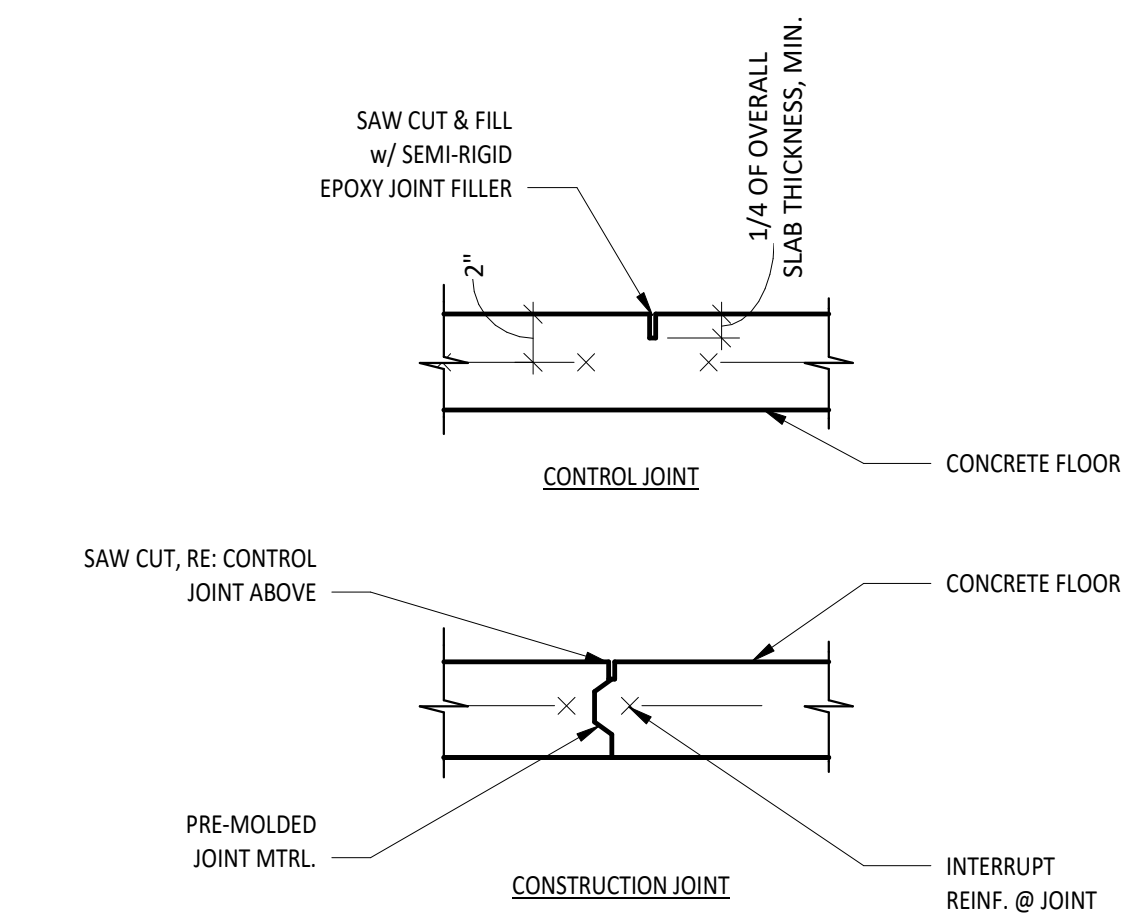
K. TYPICAL LIGHT GAUGE STEEL FRAMING MEMBER NOTATION SHOWN BELOW:



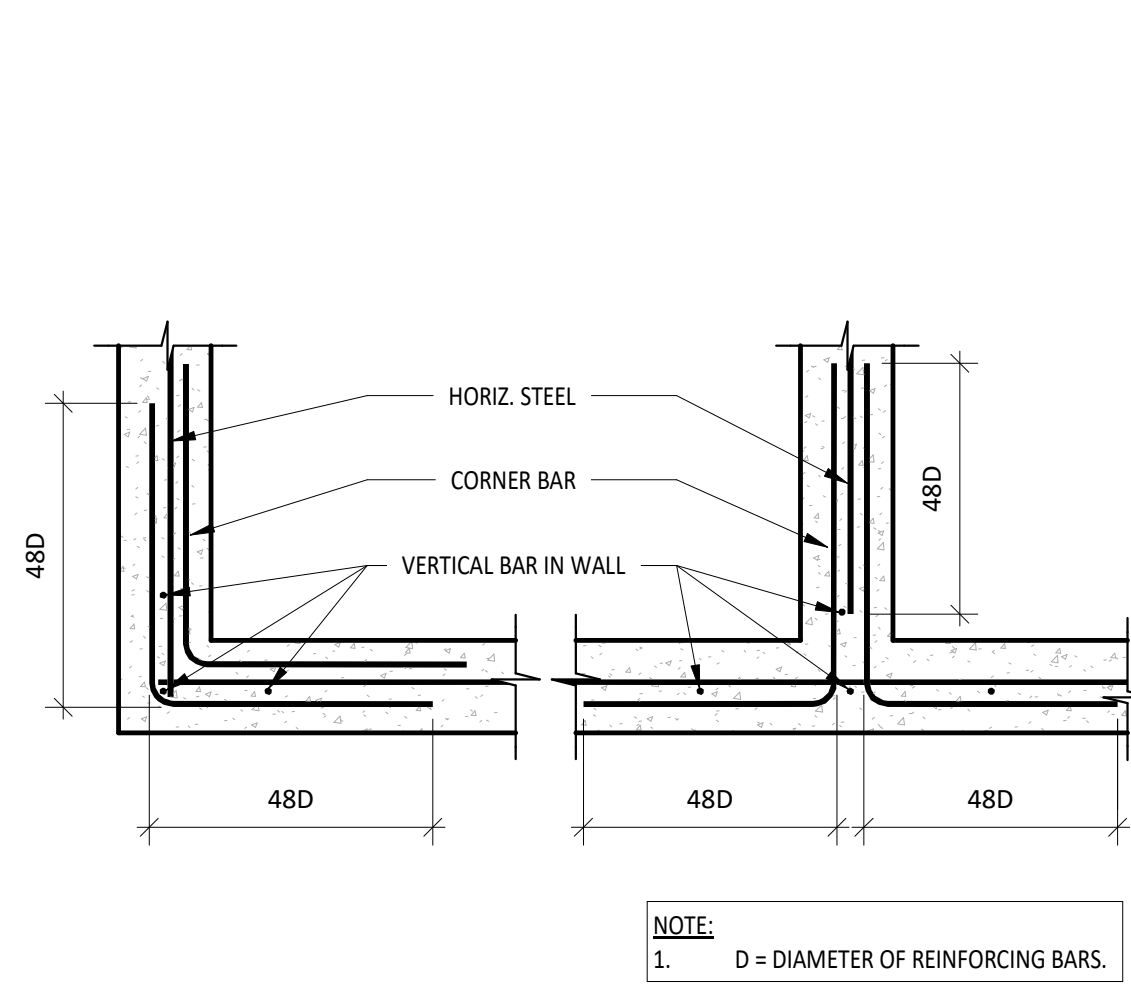
2. FASTENING REQUIREMENTS

- A. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDS AND FOLLOW THE LATEST EDITION OF THE AISI GUIDELINE RECOMMENDATIONS. WIRE TYING OF COMPONENTS IS NOT PERMITTED.
- B. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCH UP WITH RUST INHIBITIVE PAINT.
- C. SCREWS SHALL BE SELF-TAPPING PAN HEAD, HEX HEAD OR WAFER HEAD SHEET METAL SCREWS. SCREWS WHICH ARE REMOVED SHALL BE REPLACED BY A SCREW OF A LARGER DIA. WHERE THE REPLACEMENT IS MADE INTO AN EXISTING HOLE. REPLACE ALL SCREWS WITH STRIP OUT MATERIAL. SCREWS SHALL BE SPACED NO CLOSER THAN 5/8" O.C. AND WITH A MIN. FREE EDGE DISTANCE OF 1/2". CLIP ANGLES OR FLAT CLIPS USED FOR ATTACHMENT SHALL BE 18 GA. MIN. U.N.O. ALL SCREWS #8 AND LARGER SHALL HAVE A MIN. HEAD SIZE OF 5/16".
- D. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAUGE STEEL FRAMING WORK. ALL WELDING SHALL CONFORM WITH THE LATEST AMERICAN WELDING SOCIETY STANDARDS AND CONFORM TO THE FOLLOWING (MIN. ROD DIA = 1/8"):
- 18 GAUGE AND LIGHTER: E70XX
 - 16 GAUGE AND HEAVIER: E70XX
 - LIGHT GAUGE TO STRUCTURAL STEEL: E70XX (LOW HYDROGEN)

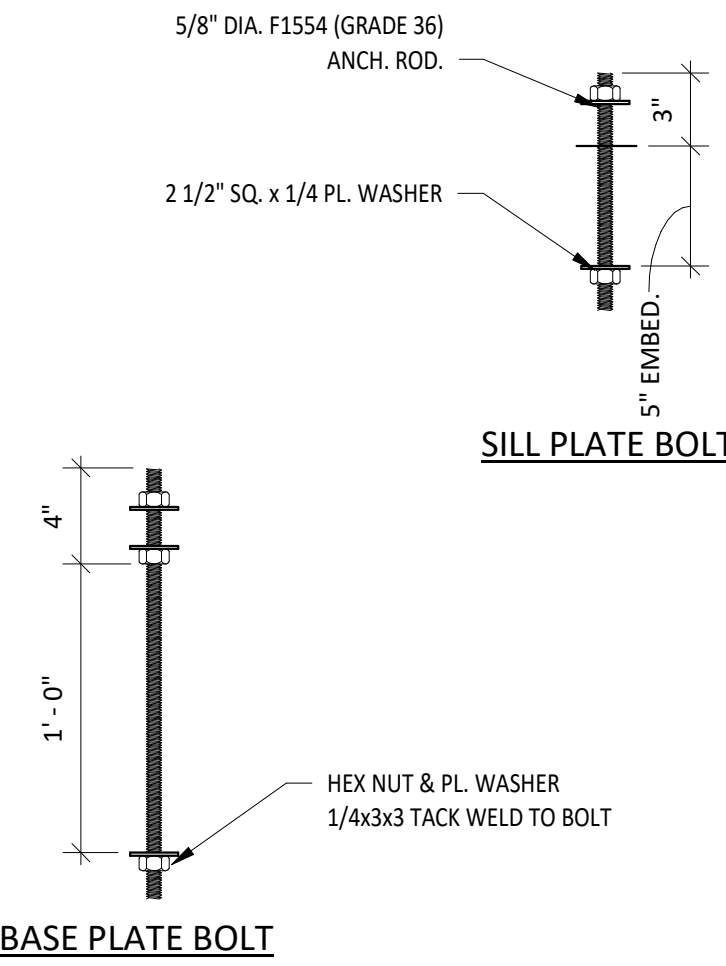
SPECIAL INSPECTIONS PROGRAM			
ESTABLISHED PER 2020 FBC CHAPTER 17			
ITEM	CONTINUOUS	PERIODIC	COMMENTS
GENERAL STRUCTURAL INSPECTIONS AS REQUIRED BY SECTION 1704.4			
SLAB REINFORCEMENT			BY BUILDING OFFICIAL
FINAL INSPECTION			BY BUILDING OFFICIAL
CONCRETE			
REINFORCING SIZE AND PLACEMENT		X	ACI 318-20; 25.2, 25.3, 26.1.1-26.6.3, IBC 1908.4
BOLTS TO BE INSTALLED PRIOR TO AND DURING CONCRETE PLACEMENT (FOR ALLOWABLE STRESS INCREASE)	X		ACI 318: 17.8.2
VERIFY USE OF REQUIRED DESIGN MIX		X	IBC 1904.1, 1904.2, 1908.2, 1908.3, ACI 318: 19, 26.4.3, 26.4.4
PREPARATION OF TEST SPECIMENS	X		ASTM C 172, ASTM C 31, ACI 318: 26.4, 26.12, IBC 1908.10
CONCRETE PLACEMENT	X		IBC 1908.6-1908.8, ACI 318: 26.5
LIGHT WEIGHT CONCRETE AIR-DRY UNIT WEIGHT	X		ACI 318/EOR
MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES		X	IBC 1908.9, ACI 318: 26.5.3-26.5.5
INSPECT FORM WORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.1.2 (b)
WELDING: STRUCTURAL STEEL			
MATERIAL VERIFICATION OF WELD FILLER MATERIALS	X		AISC 360, SECTION A3.5
COMPLETE AND PARTIAL PENETRATION	X		
MULTIPASS FILLET WELDS	X		IBC 1704.3.1, AWS D1.1, AISC 360, TABLE C-N5-4.1
SINGLE PASS FILLETS > 5/16"	X		
SINGLE PASS FILLETS ≤ 5/16"		X	
FLOOR AND ROOF DECK WELDS		X	AWS D1.3
WELDED STUDS		X	IBC 1704.3/E.O.R
WELDING OF STAIRS AND RAILING SYSTEMS		X	IBC 1704.3/ E.O.R.
SPECIAL CASES: (IBC 1705.1.1)			
EPOXY OR ADHESIVE ANCHOR PLACEMENT	X		ACI 318: 17.8.2.4
EXPANSION OR SCREW ANCHOR PLACEMENT	X		ACI 318: 17.8.2



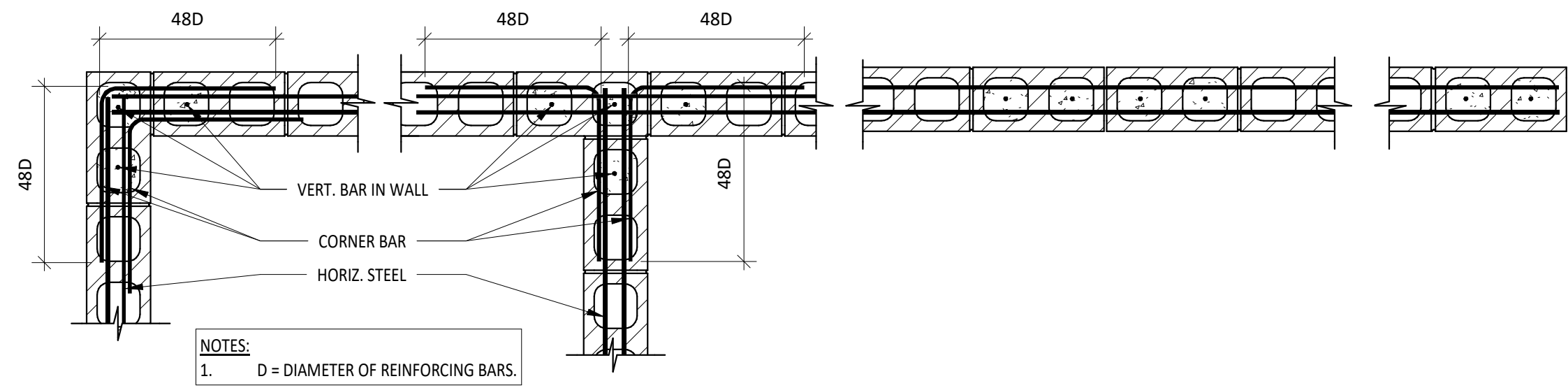
1 CONSTRUCTION & CONTROL JOINT
1 1/2" = 1'-0"



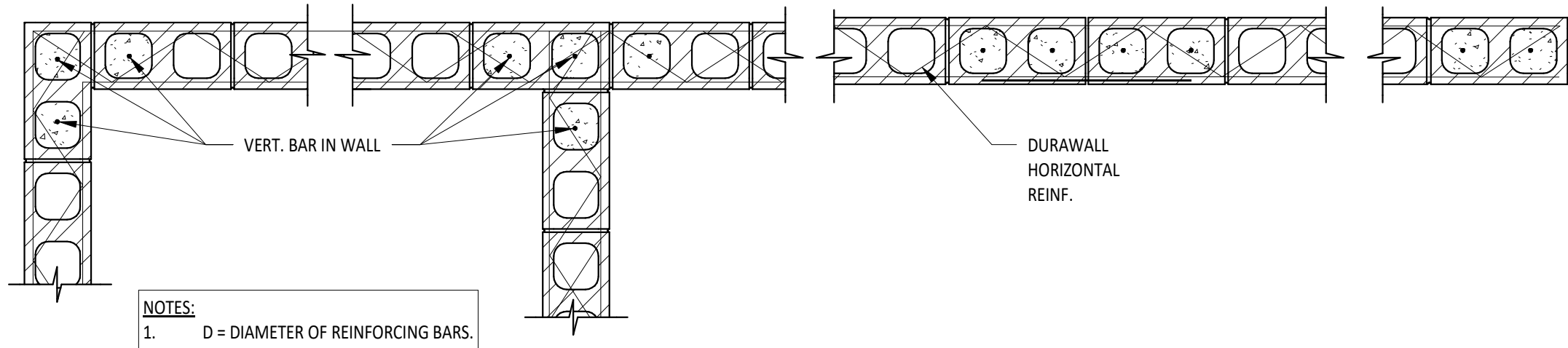
2 CORNER/INTERSECTION REINFORCING
3/4" = 1'-0"



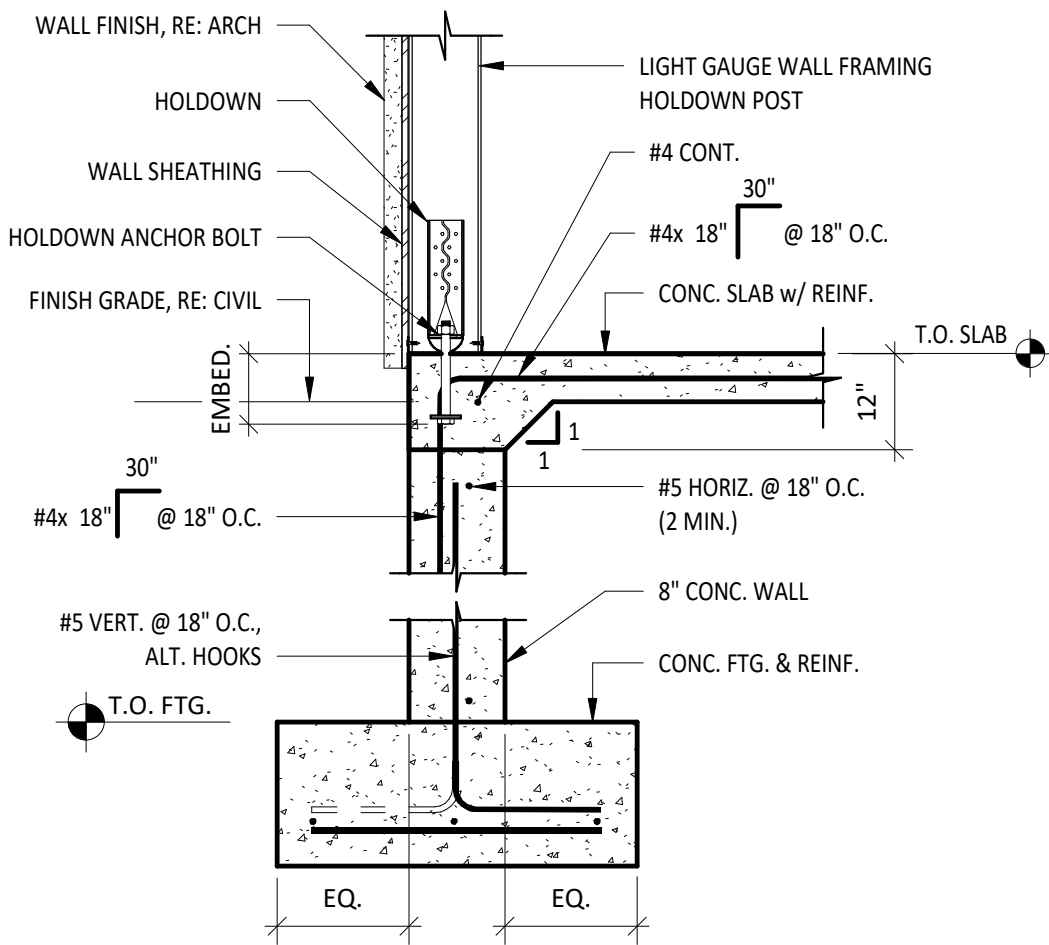
3 TYPICAL BASE PLATE ANCHOR BOLT AND SILL ANCHOR BOLT
1 1/2" = 1'-0"



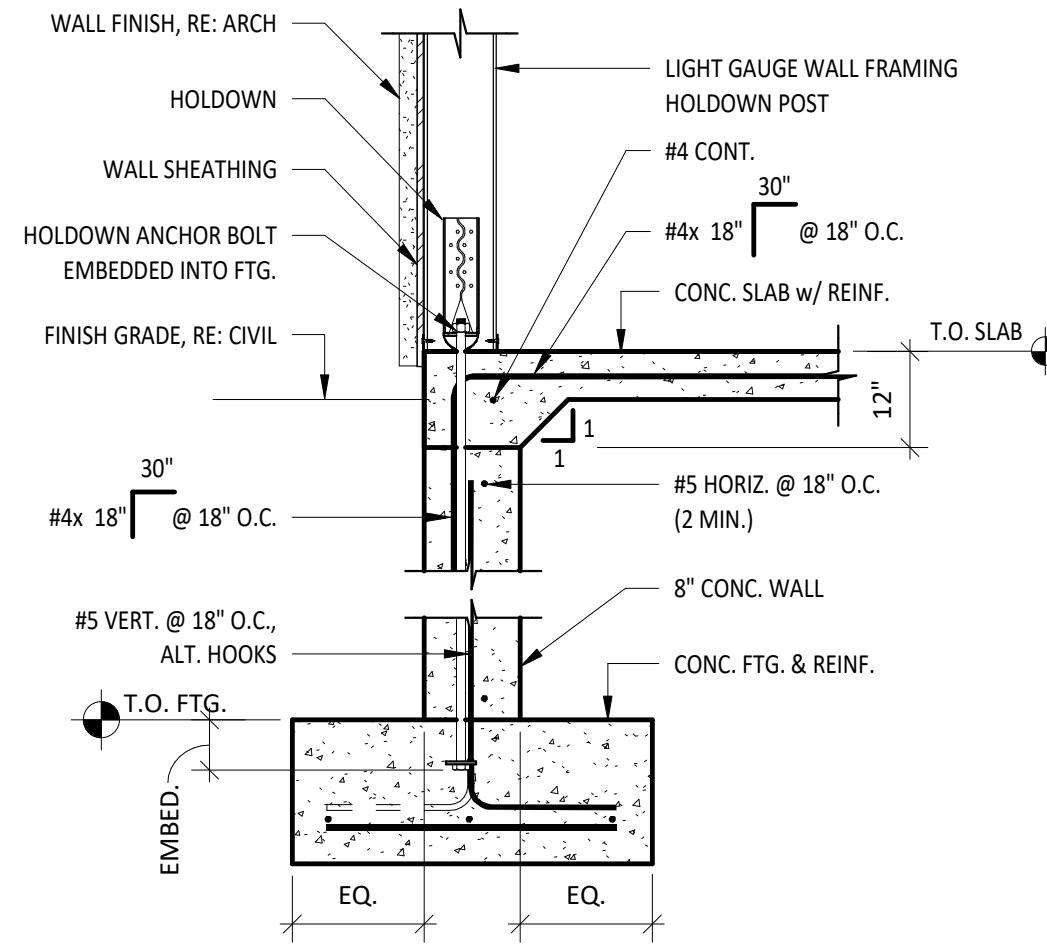
4 TYPICAL REINFORCING @ CMU INTERSECTION
3/4" = 1'-0"



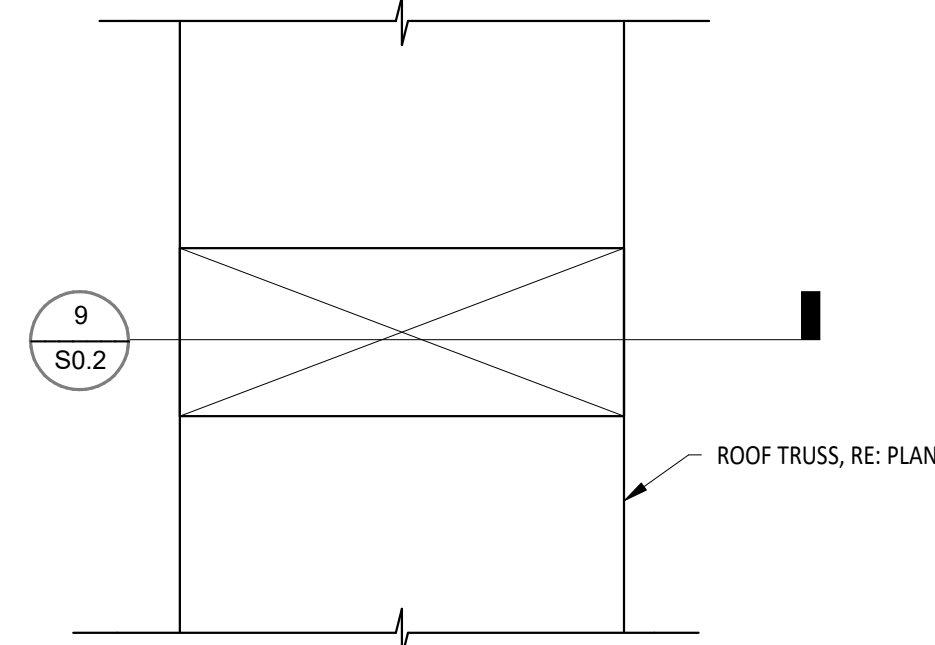
5 TYPICAL REINFORCING @ CMU INTERSECTION
3/4" = 1'-0"



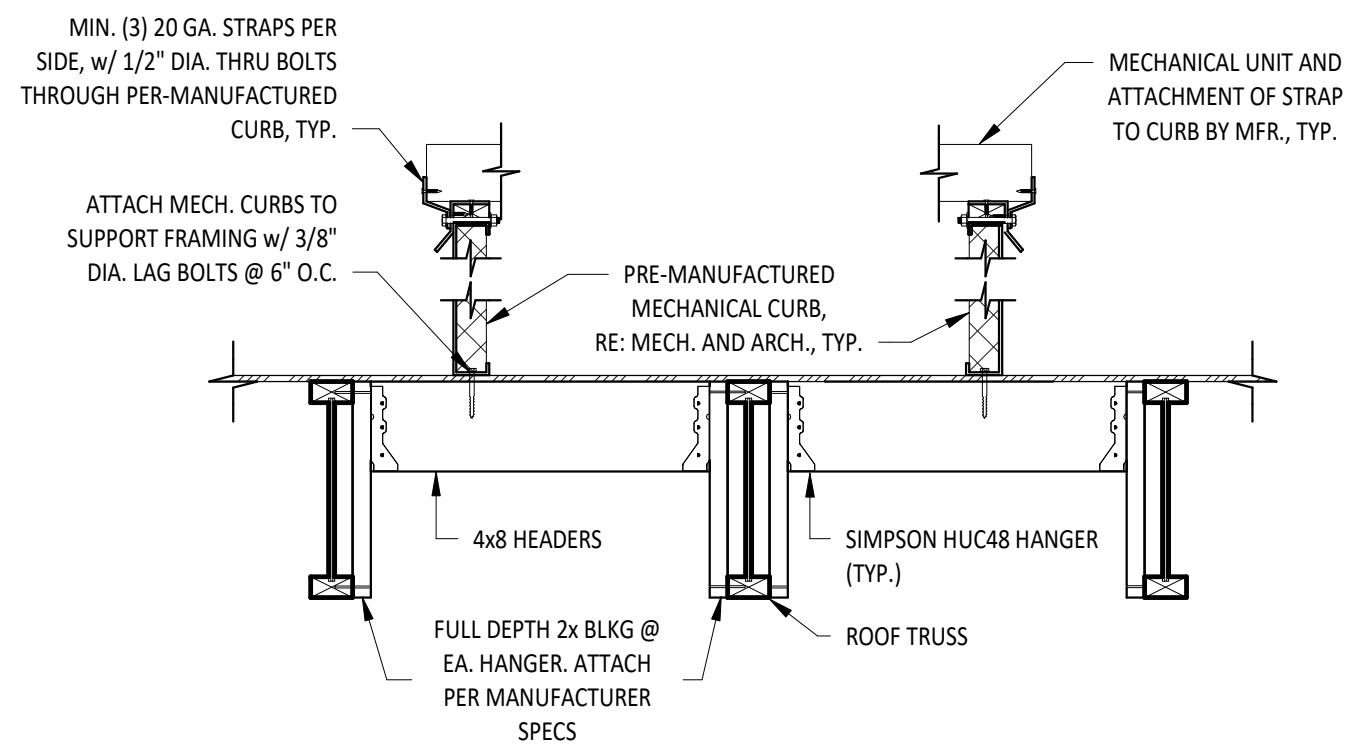
6 TYPICAL PERIMETER FOUNDATION @ HOLDOWN
3/4" = 1'-0"



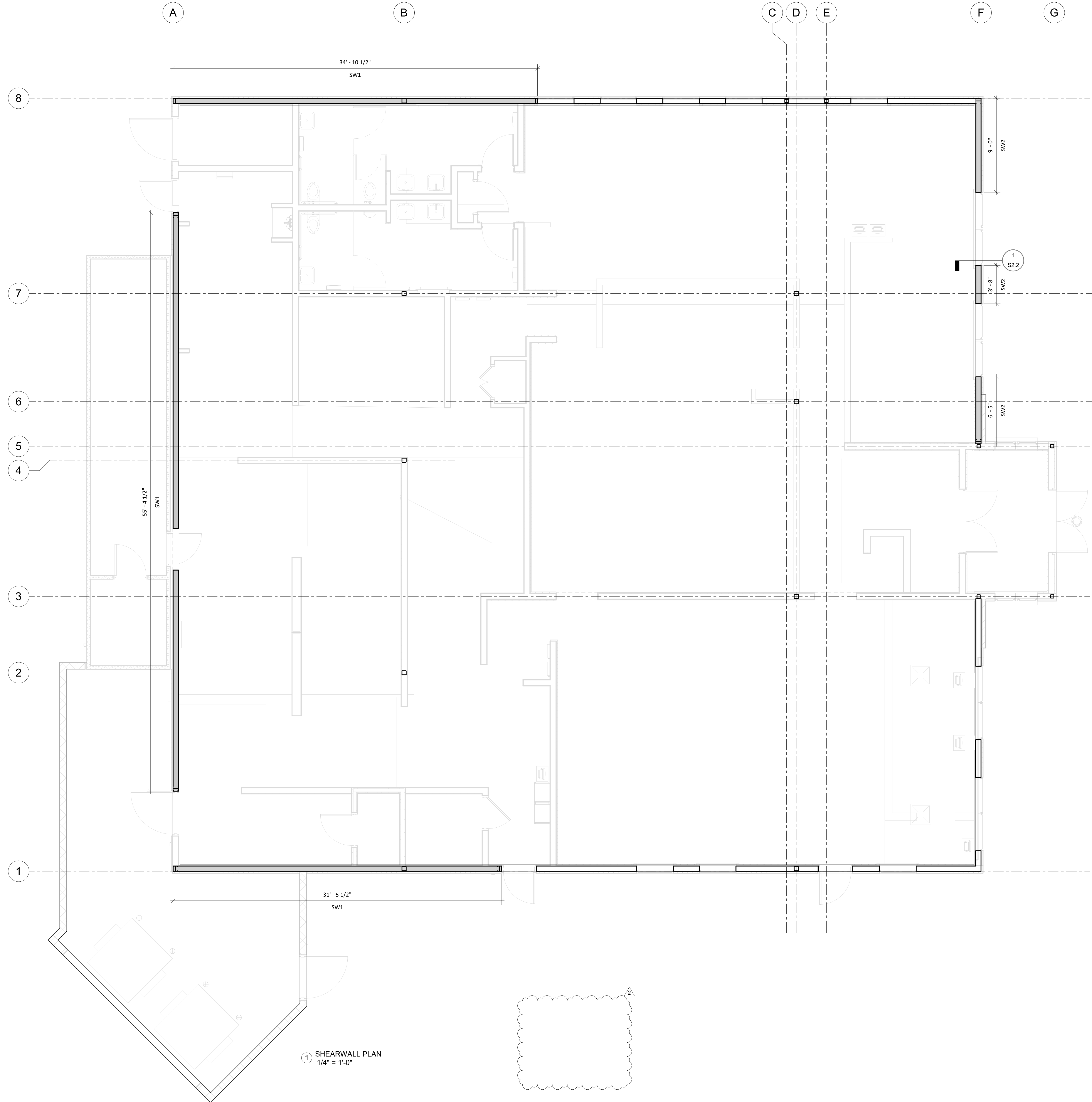
7 PERIMETER FOOTING FOUNDATION @ HOLDOWN INTO FOOTING
3/4" = 1'-0"



8 SQUARE OR RECT. FRAME PLAN
3" = 1'-0"

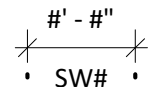


9 SQUARE OR RECT. FRAME DETAIL
3/4" = 1'-0"



1 SHEARWALL PLAN
1/4" = 1'-0"

SHEARWALL NOTES:

1. SHADED WALLS DENOTE SHEARWALL LOCATIONS.
2.  INDICATES SHEARWALL LENGTH & TYPE.

SHEAR WALL SCHEDULE		
LIGHT GAUGE FRAMING - LIGHT GAUGE FRAMING	#10 TEK SCREWS	
LIGHT GAUGE FRAMING - CONCRETE	*HILTI" 0.157" DIA. XU FASTENERS -OR- SIMPSON	
LIGHT GAUGE FRAMING - MASONRY	*HILTI" 0.157" DIA. XU (P.A.F.)	
LIGHT GAUGE FRAMING - STEEL	*SIMPSON" STRONG DRIVE SELF-DRILLING X METAL SCREW -OR- *HILTI" 0.157" DIA. XU (P.A.F.)	
LIGHT GAUGE FRAMING - WOOD	SD#10 Wood Screws	

- NOTES:
1. ALL FASTENERS ARE TYPICAL, UNLESS NOTED OTHERWISE ON PLAN, ELEVATION, SECTION, OR DETAILS.

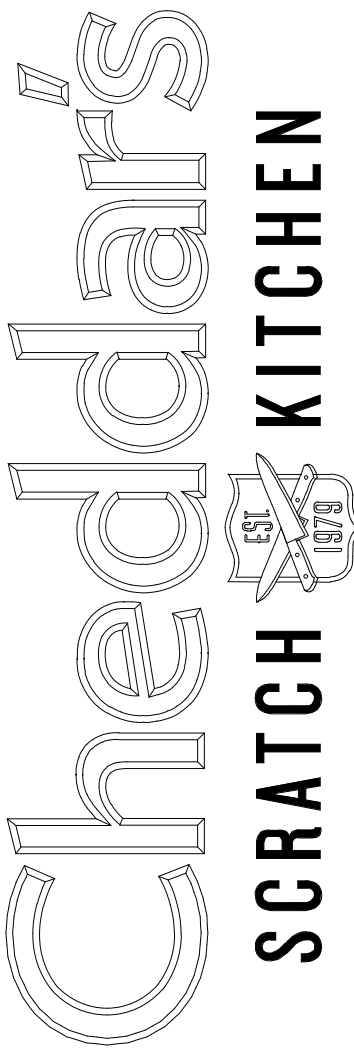
SHEAR WALL SCHEDULE				
MARK	SHEATHING	FASTENER SIZE	EDGE NAILING "E.N."	SILL PLATE ANCHORAGE
SW1	7/16" APA RATED PLY 1 SIDE ONLY	#8	6"	5/8"x8" HEADED ANCHOR SPACING 48" O.C.
SW2	7/16" APA RATED PLY 2 SIDES	#8	4"	24" O.C.

- NOTES:
1. FOR TYPICAL SILL PLATE ANCHORAGE, RE: SCHEDULE
 2. SHEAR WALL SILL PLATE ANCHORAGE & HOLDOWN ANCHORS ARE IN ADDITION TO THE TYPICAL SILL PLATE ANCHORS SPECIFIED.
 3. FOR SHEAR WALL FRAMING DETAIL, RE: 1 / S4.1



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Boise, ID 83705
(208) 345-8941
www.tamarackgrove.com
Firm No.: M14000009249
Project No.: 22-20544

CLIENT:
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1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Issue Date: 11-20-22

REVISION INFORMATION

REV #2 CLIENT COMMENTS 4/5/23

Restaurant #: 22K0000

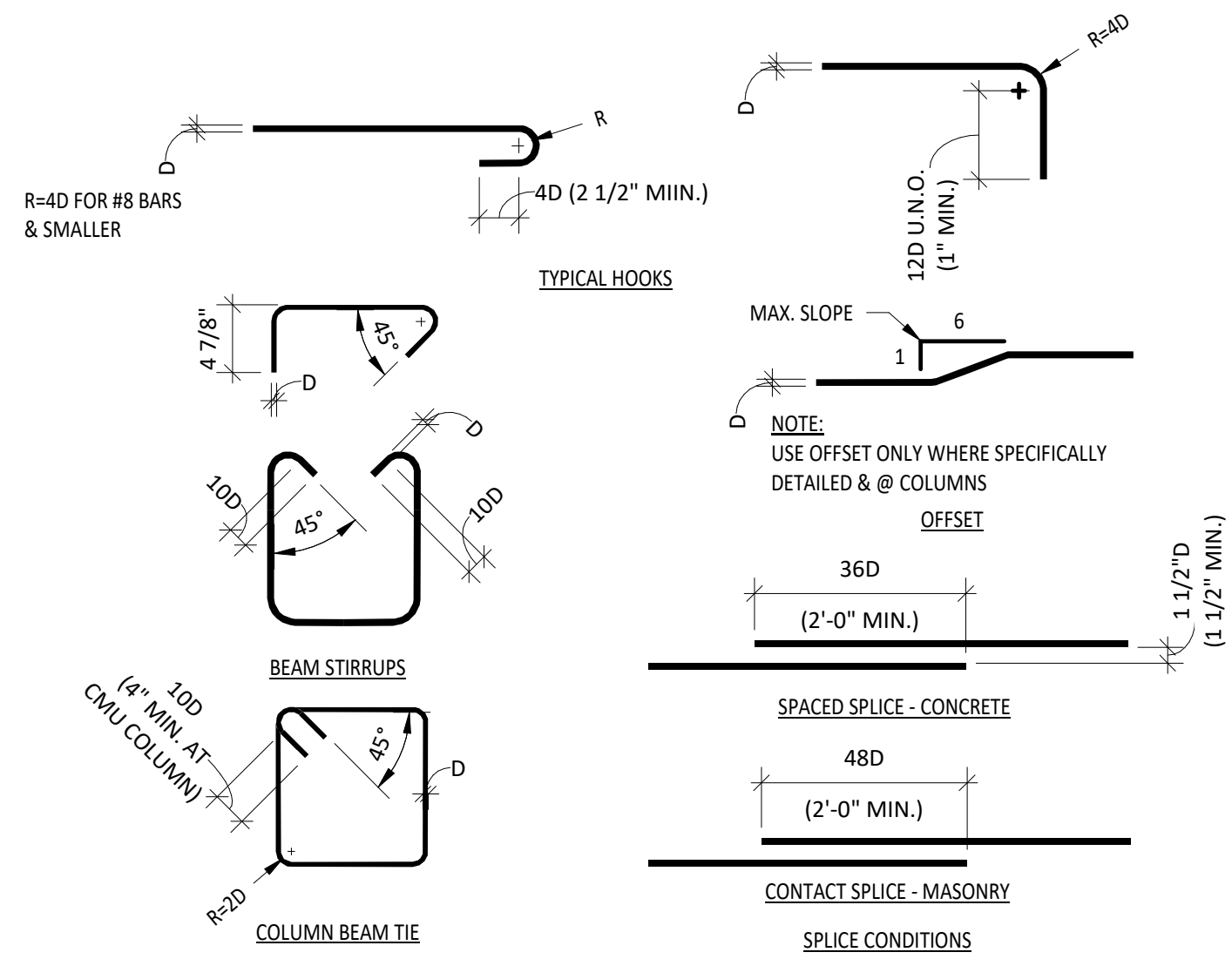
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE.
RIVERVIEW, FL 33578

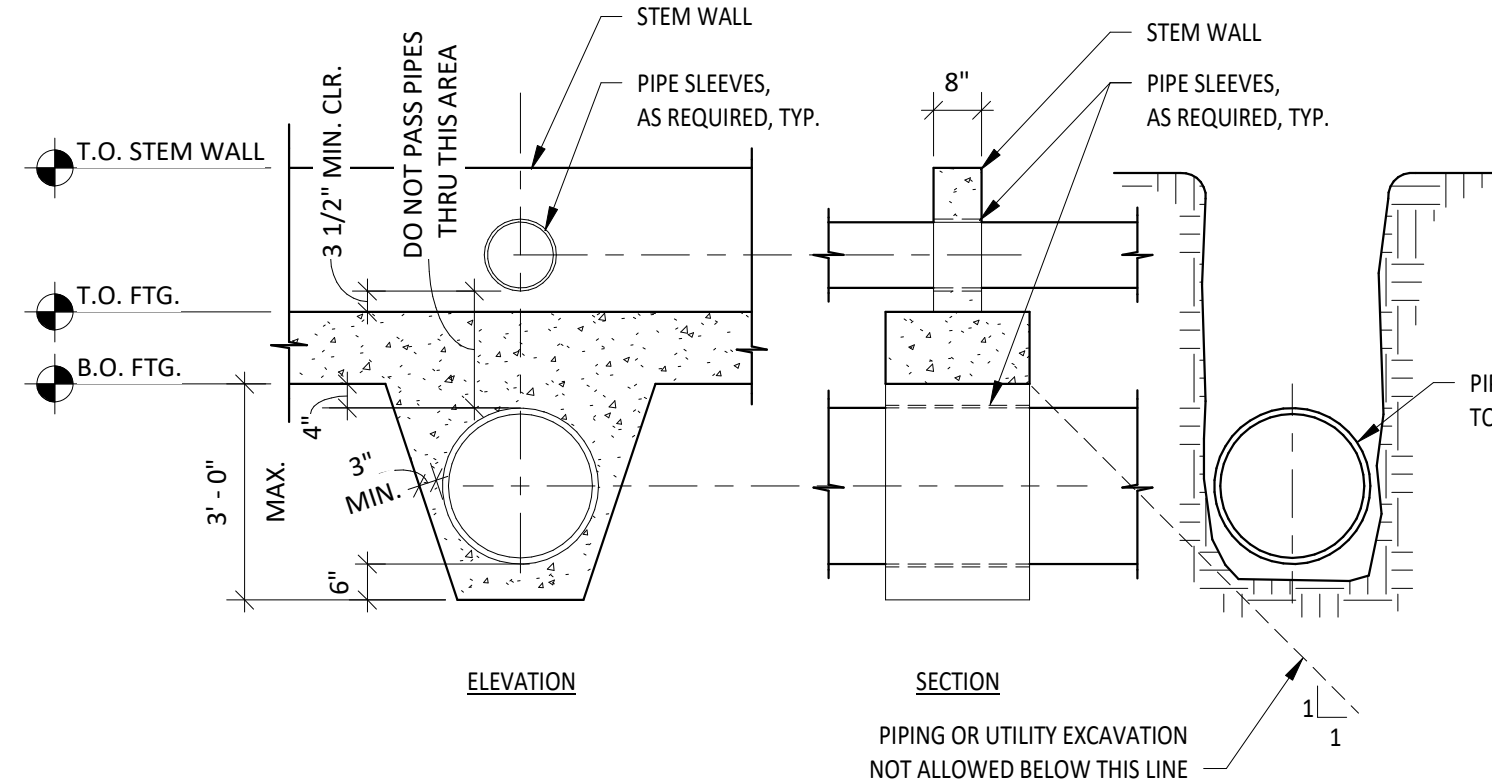
RIVERVIEW, FL

Drawing:
SHEAR WALL PLAN

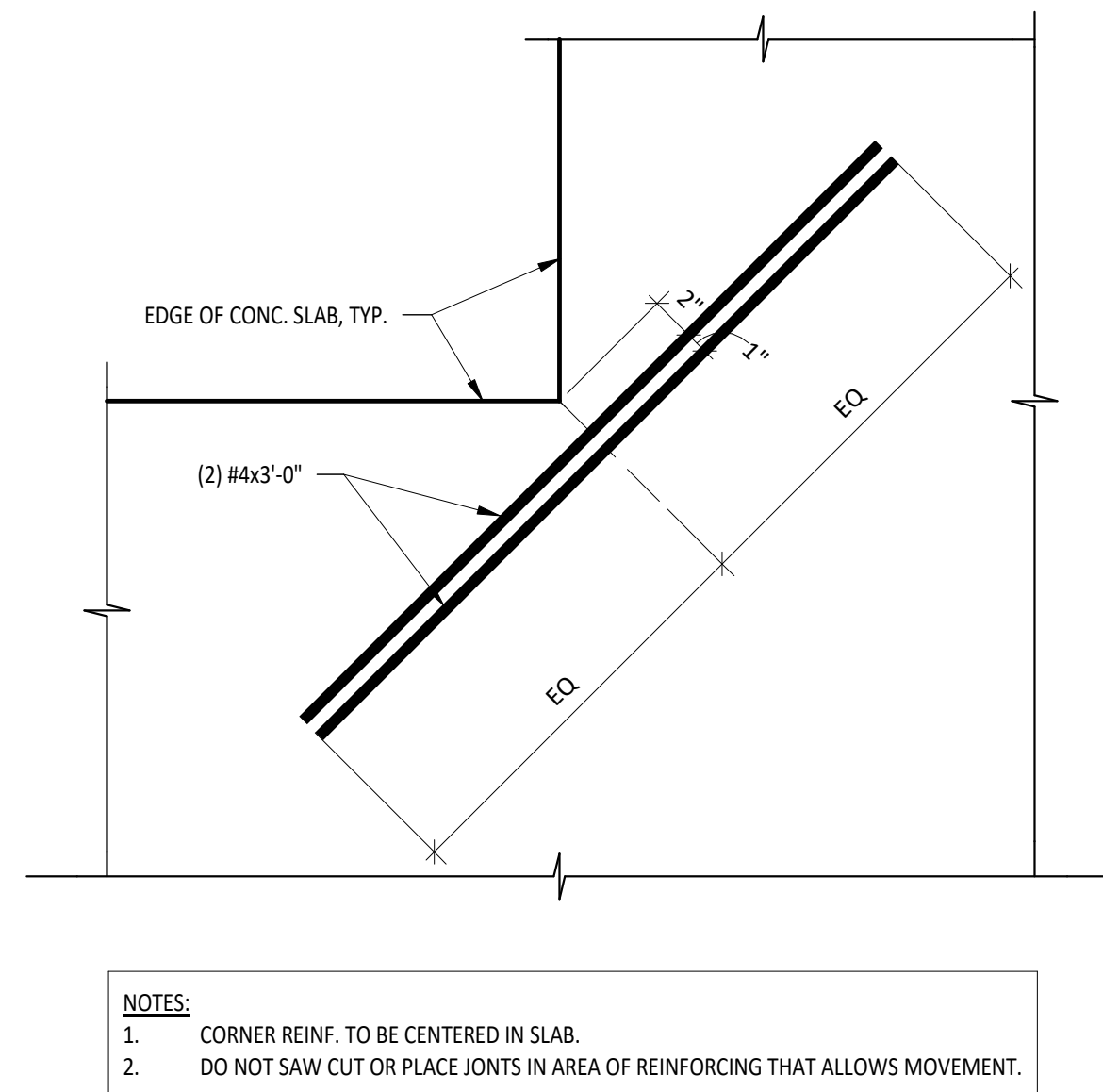
S1.1



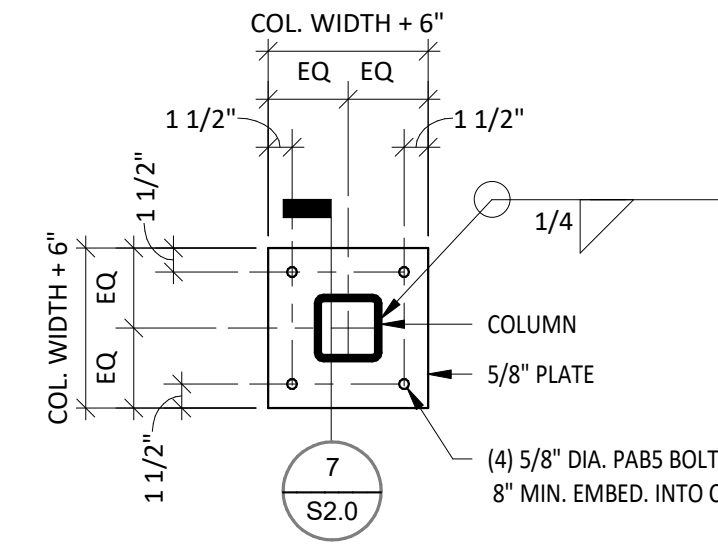
1 REINFORCING BAR BENDS
1" = 1'-0"



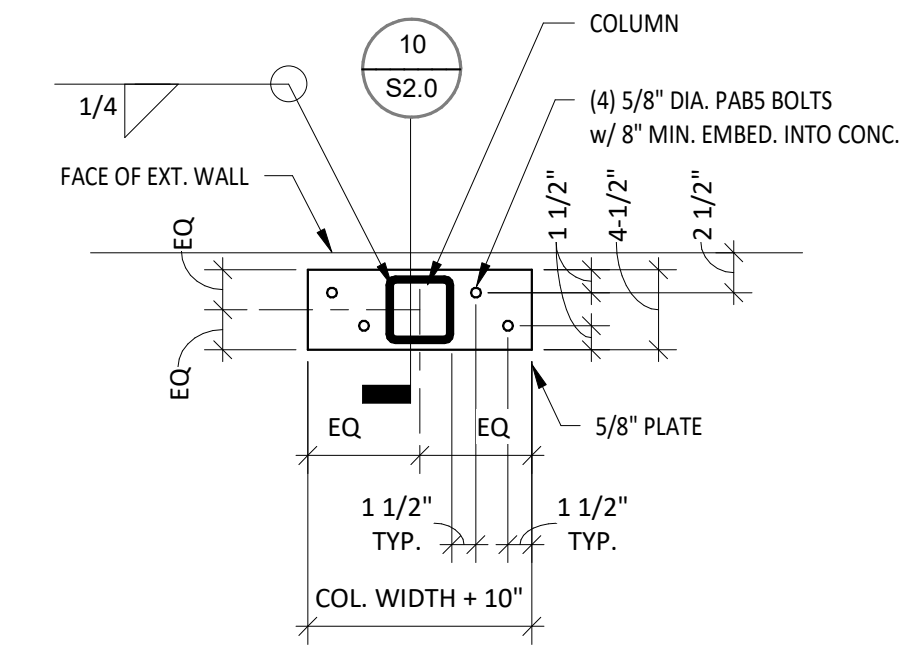
2 CONCRETE FOUNDATION WALL AND FOOTING PENETRATION
3/8" = 1'-0"



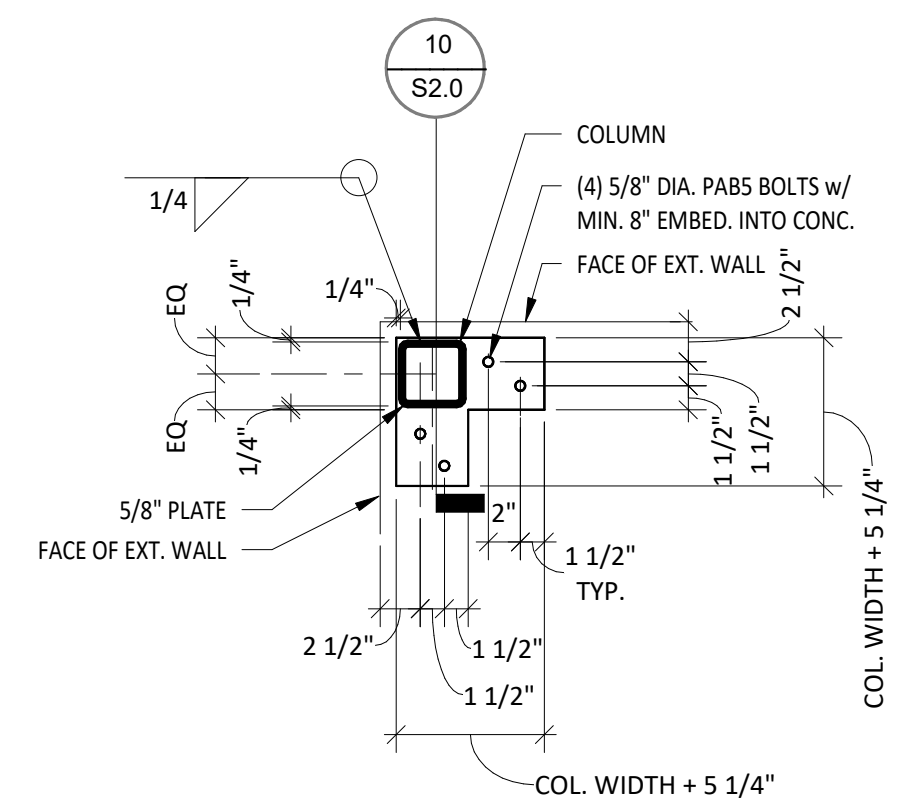
3 REINF. AT RE-ENTRANT CORNERS
1 1/2" = 1'-0"



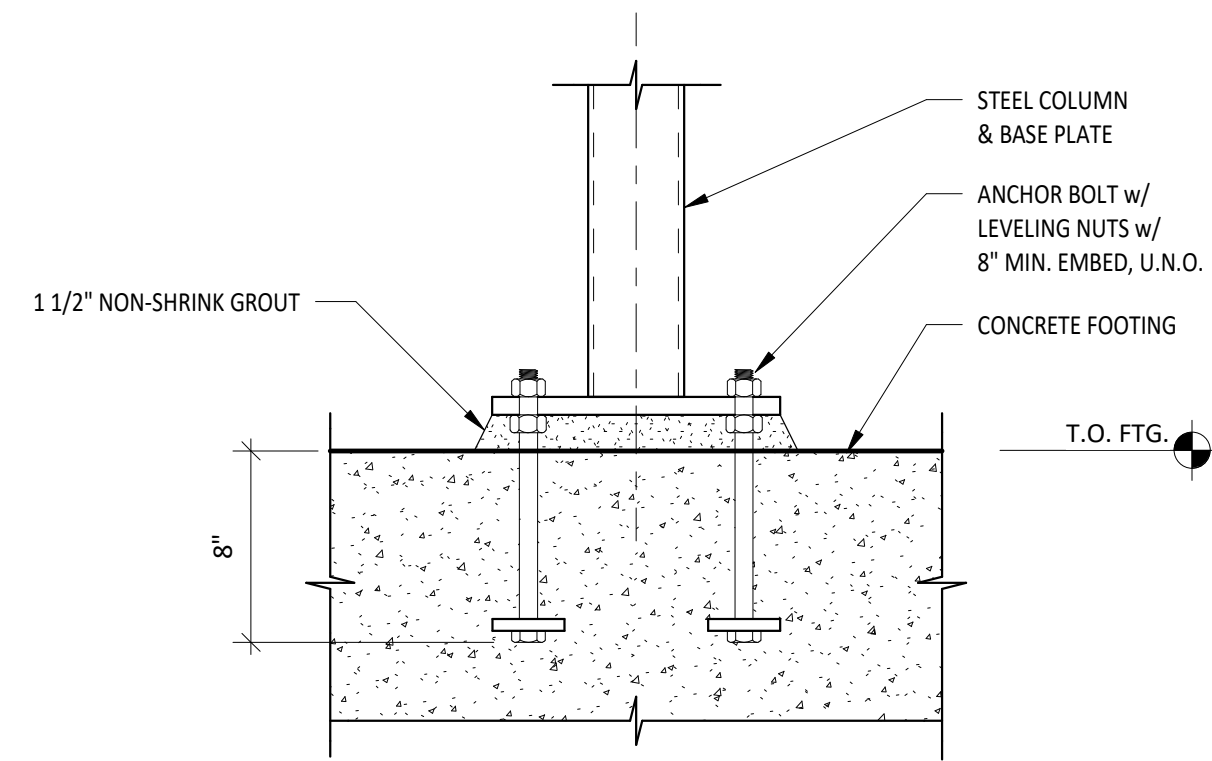
4 BASE PLATE DETAIL
1" = 1'-0"



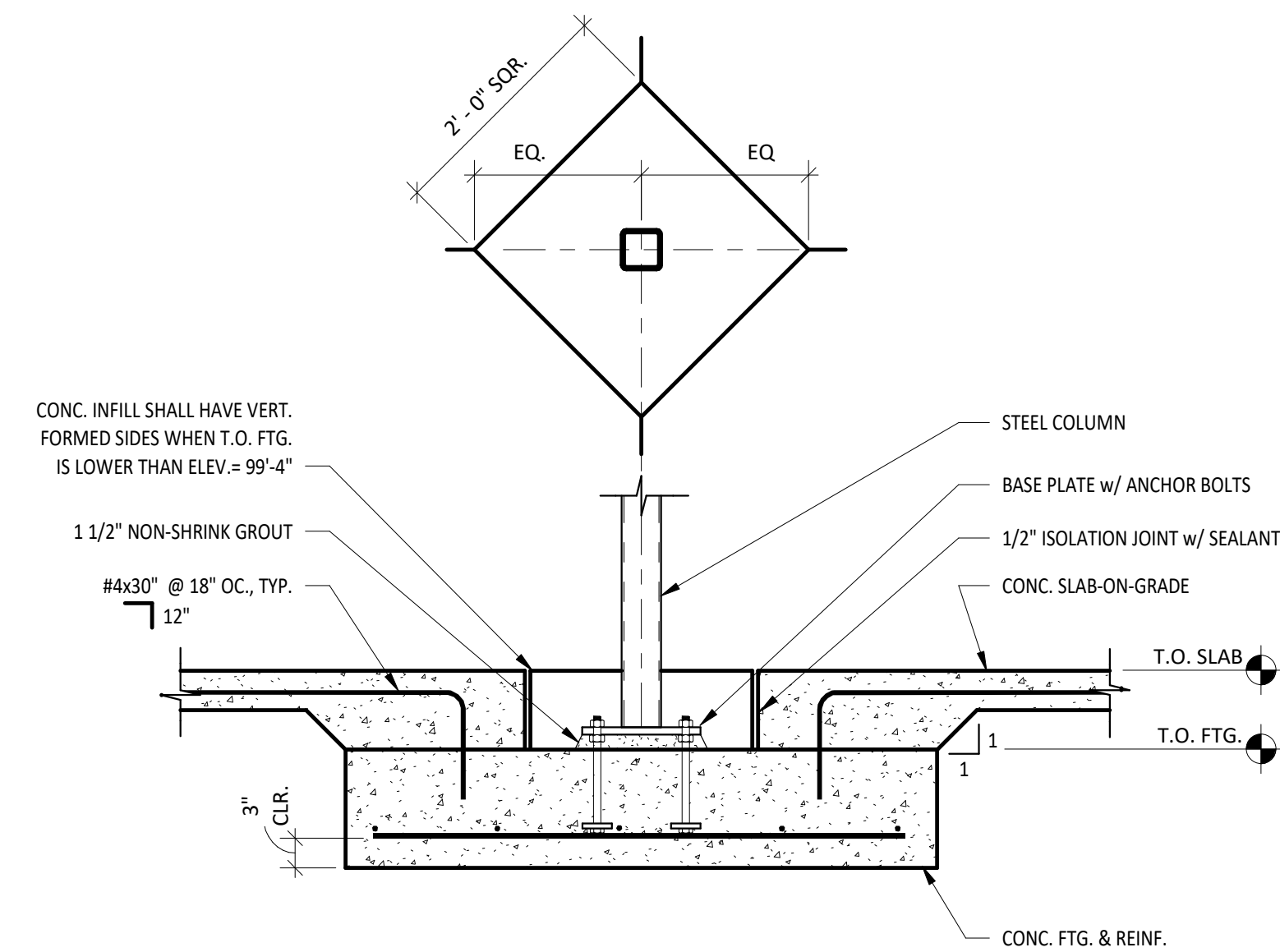
5 BASE PLATE DETAIL
1" = 1'-0"



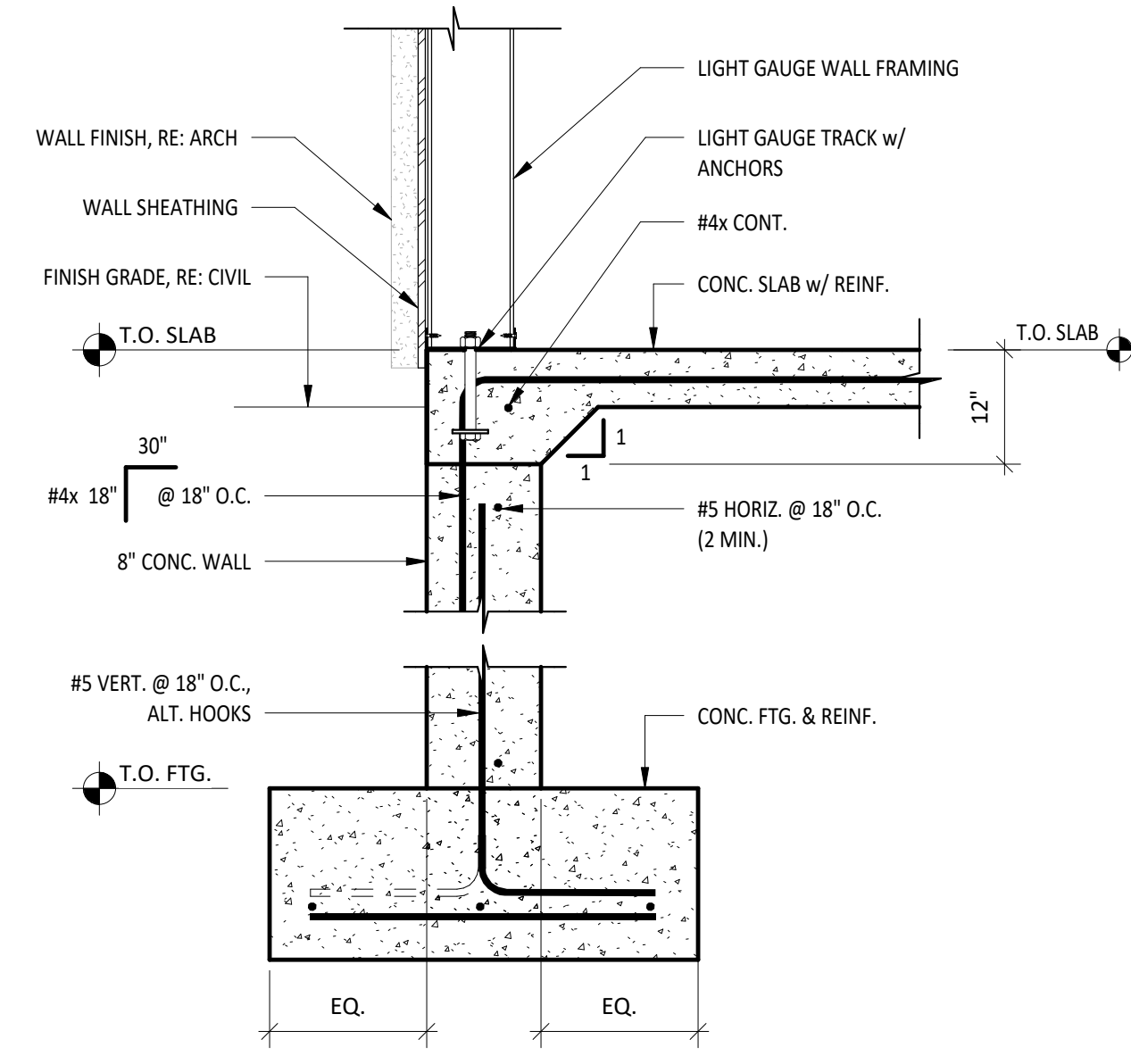
6 BASE PLATE DETAIL
1" = 1'-0"



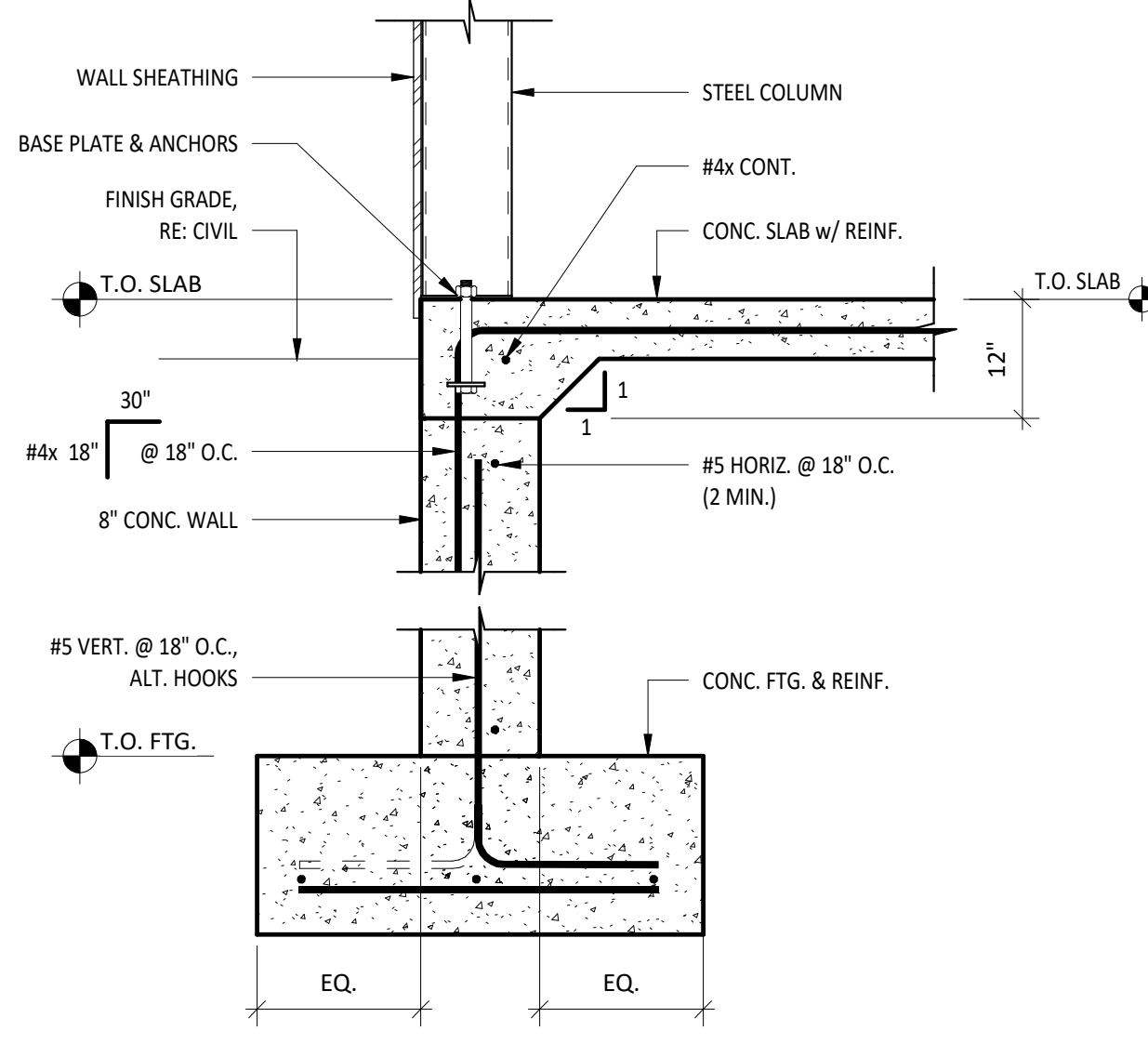
7 INTERIOR COLUMN FOOTING
1 1/2" = 1'-0"



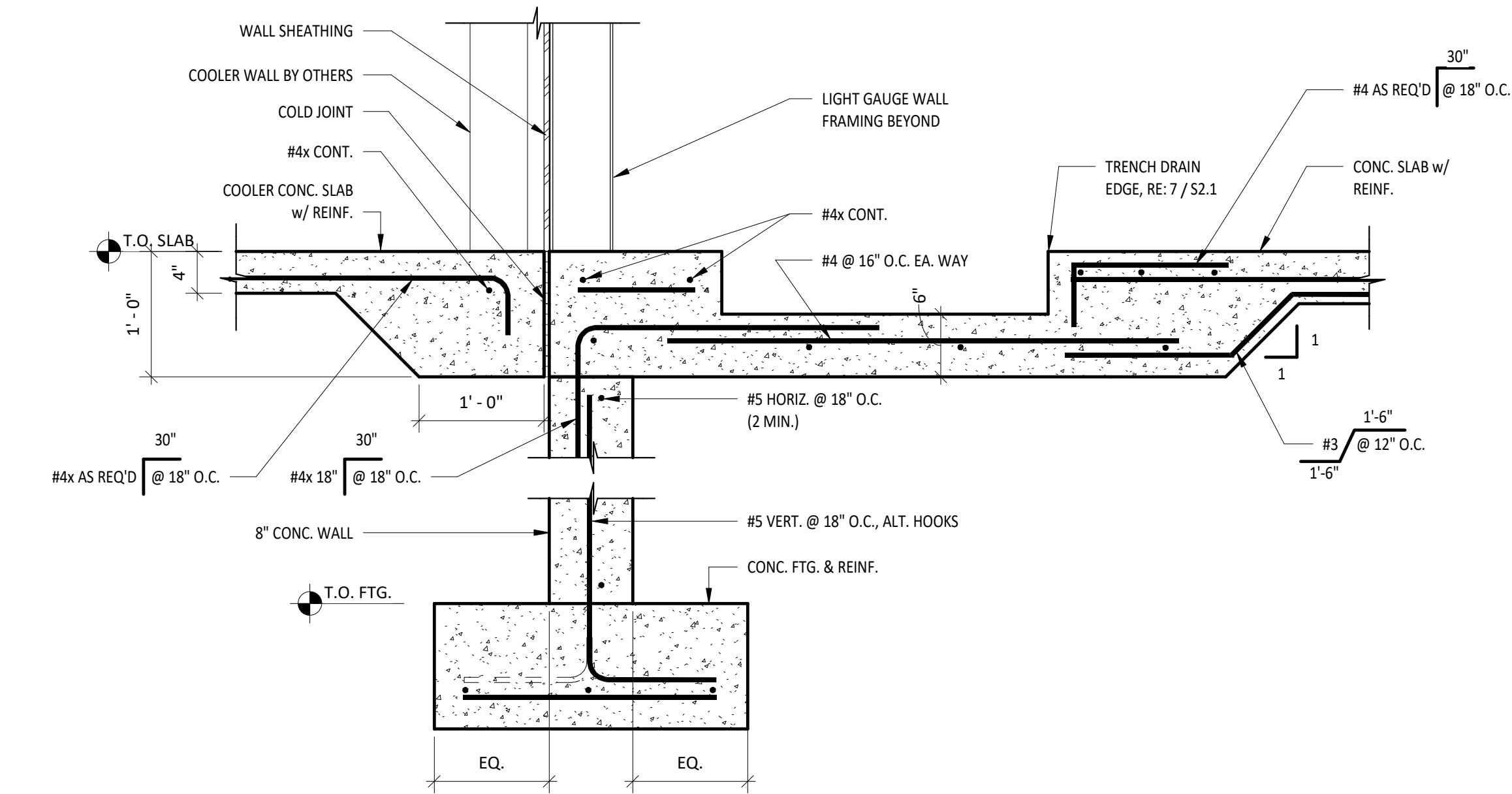
8 INTERIOR COLUMN FOOTING
3/4" = 1'-0"



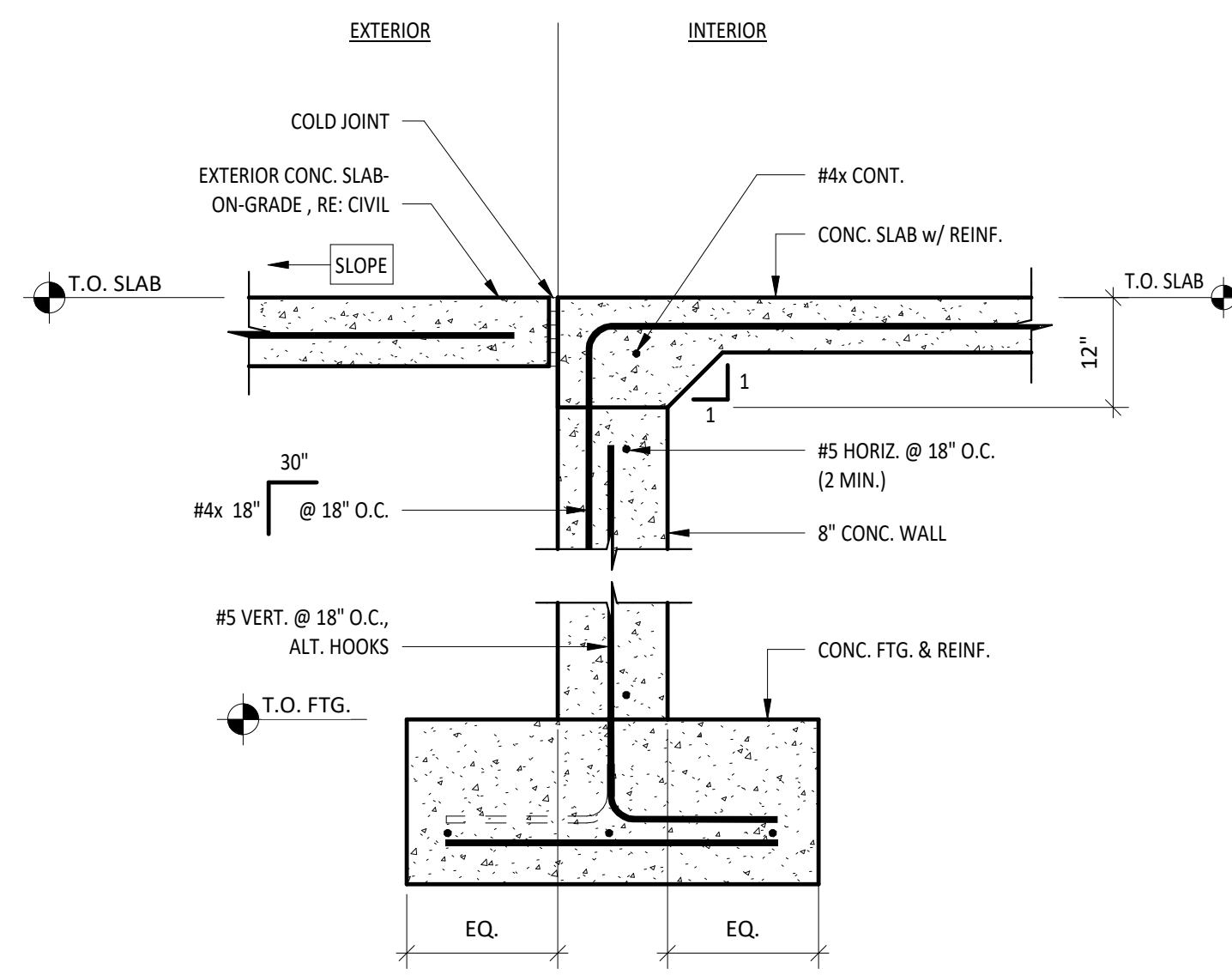
9 TYPICAL PERIMETER WALL FOOTING
1" = 1'-0"



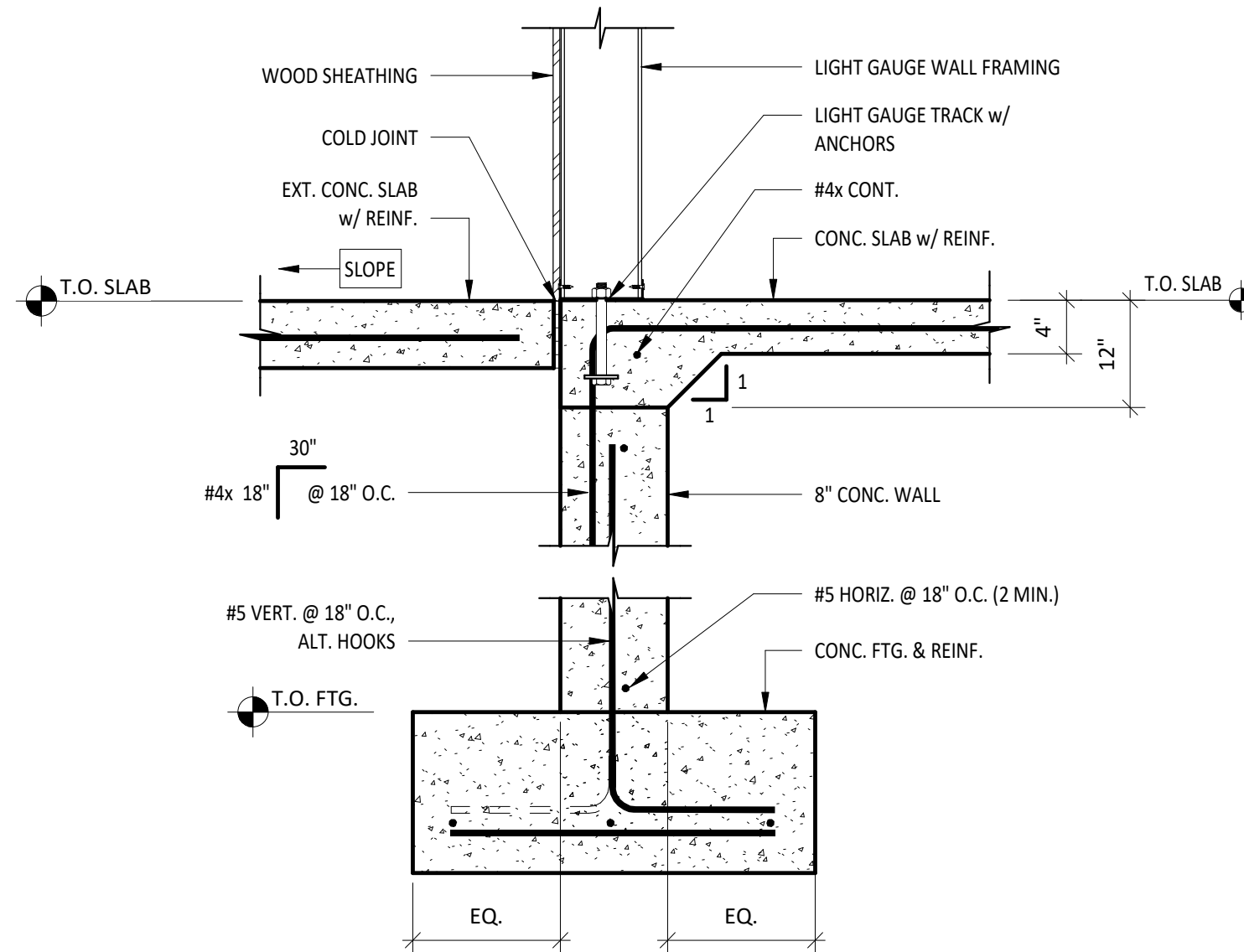
10 PERIMETER COLUMN FTG.
1" = 1'-0"



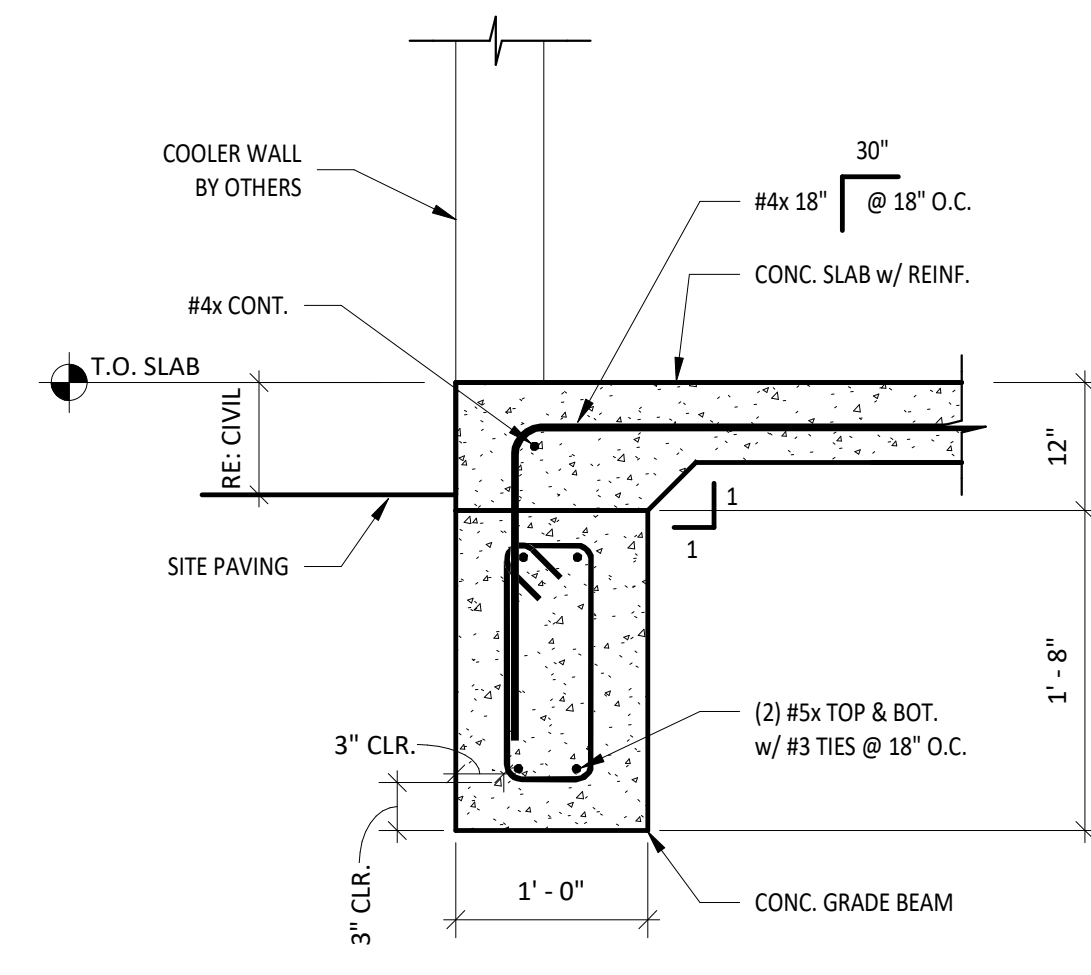
11 TRENCH DRAIN @ PERITMER WALL FOOTING
1" = 1'-0"



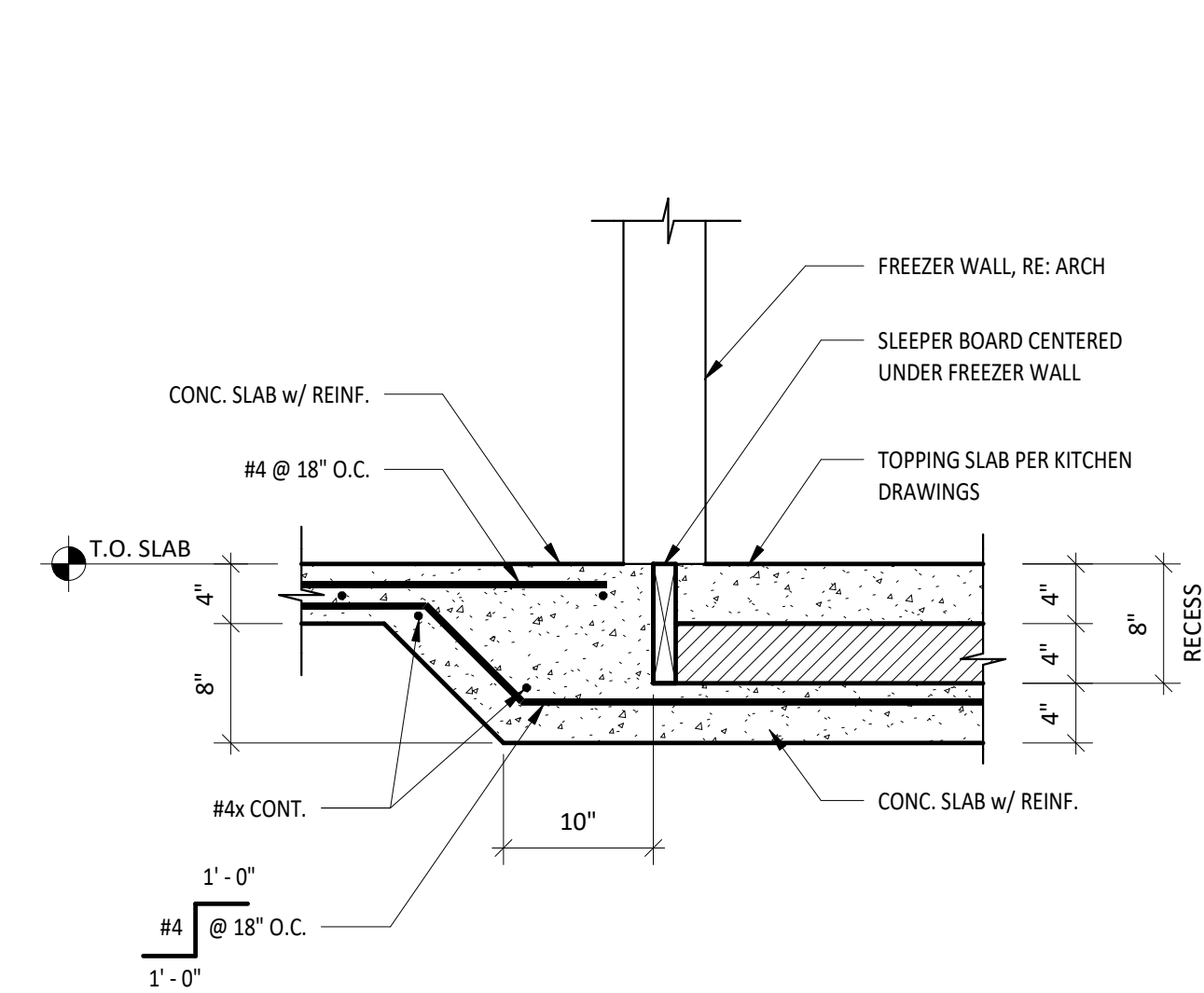
12 TYPICAL PERIMETER WALL FTG. @ DOOR
1" = 1'-0"



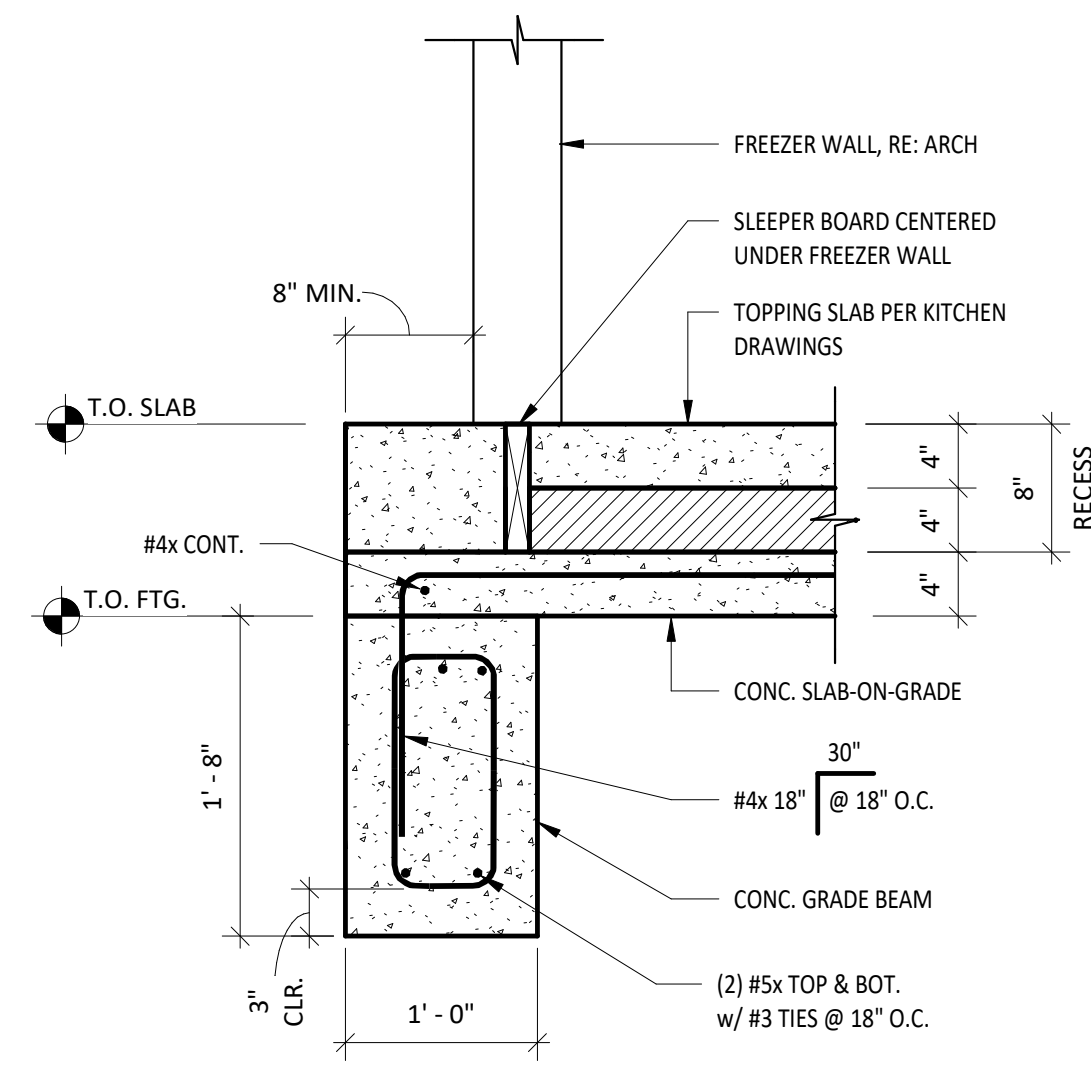
13 PERIMETER WALL FOOTING @ DUMPSTER SLAB
1" = 1'-0"



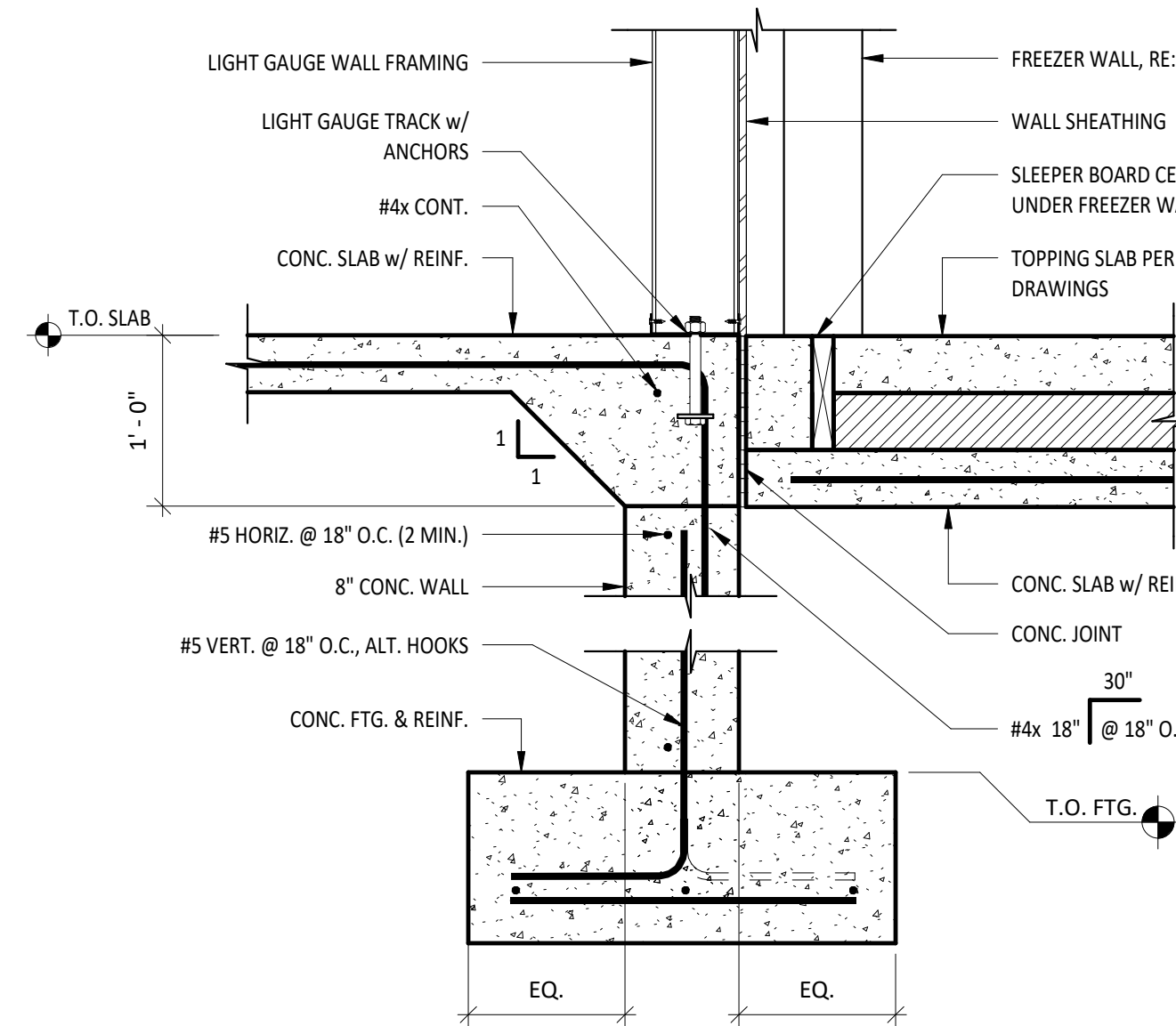
14 PERIMETER WALL FOOTING AT COOLER
1" = 1'-0"



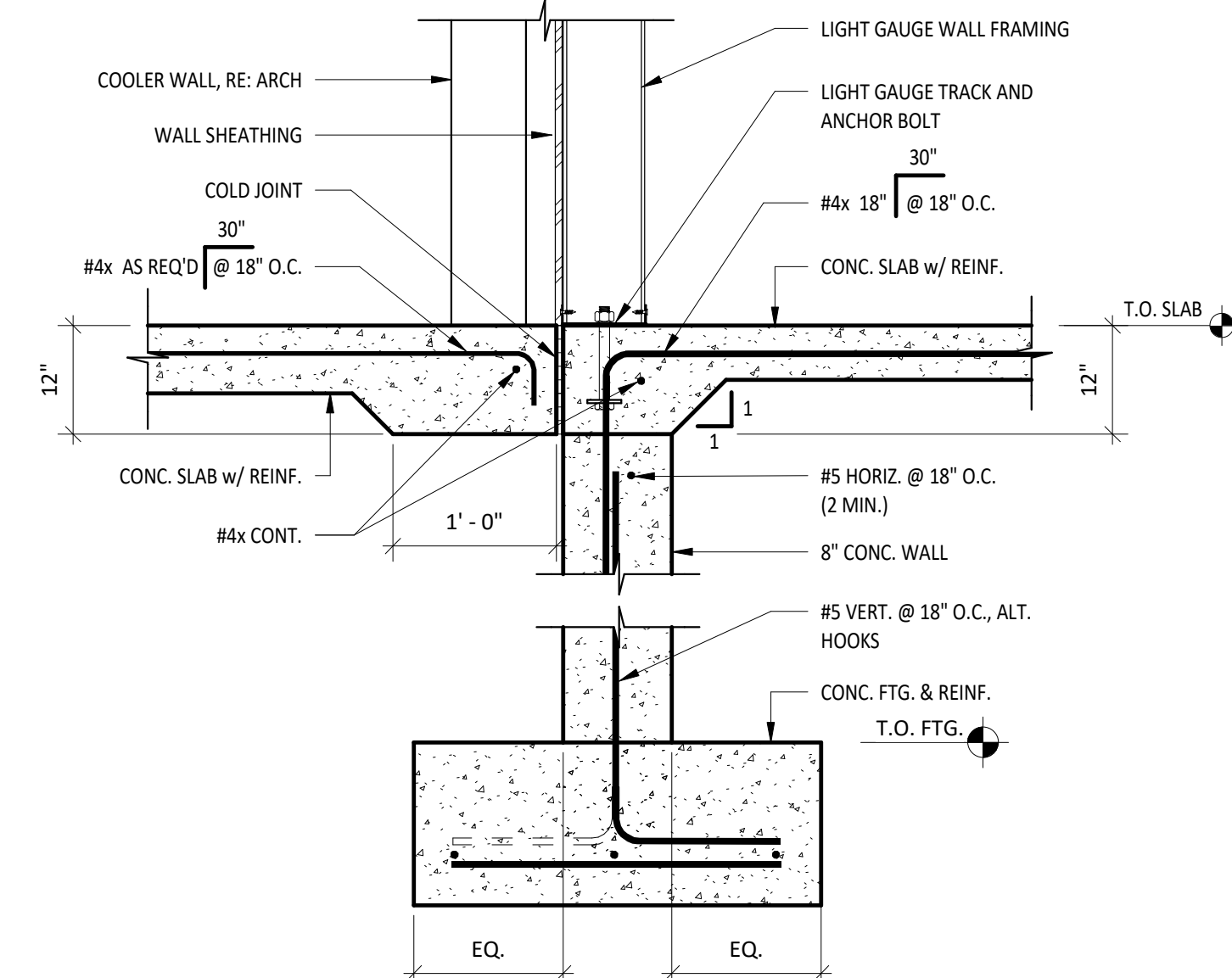
15 RECESSED FREEZER SLAB
1" = 1'-0"



16 RECESSED FREEZER SLAB
1" = 1'-0"



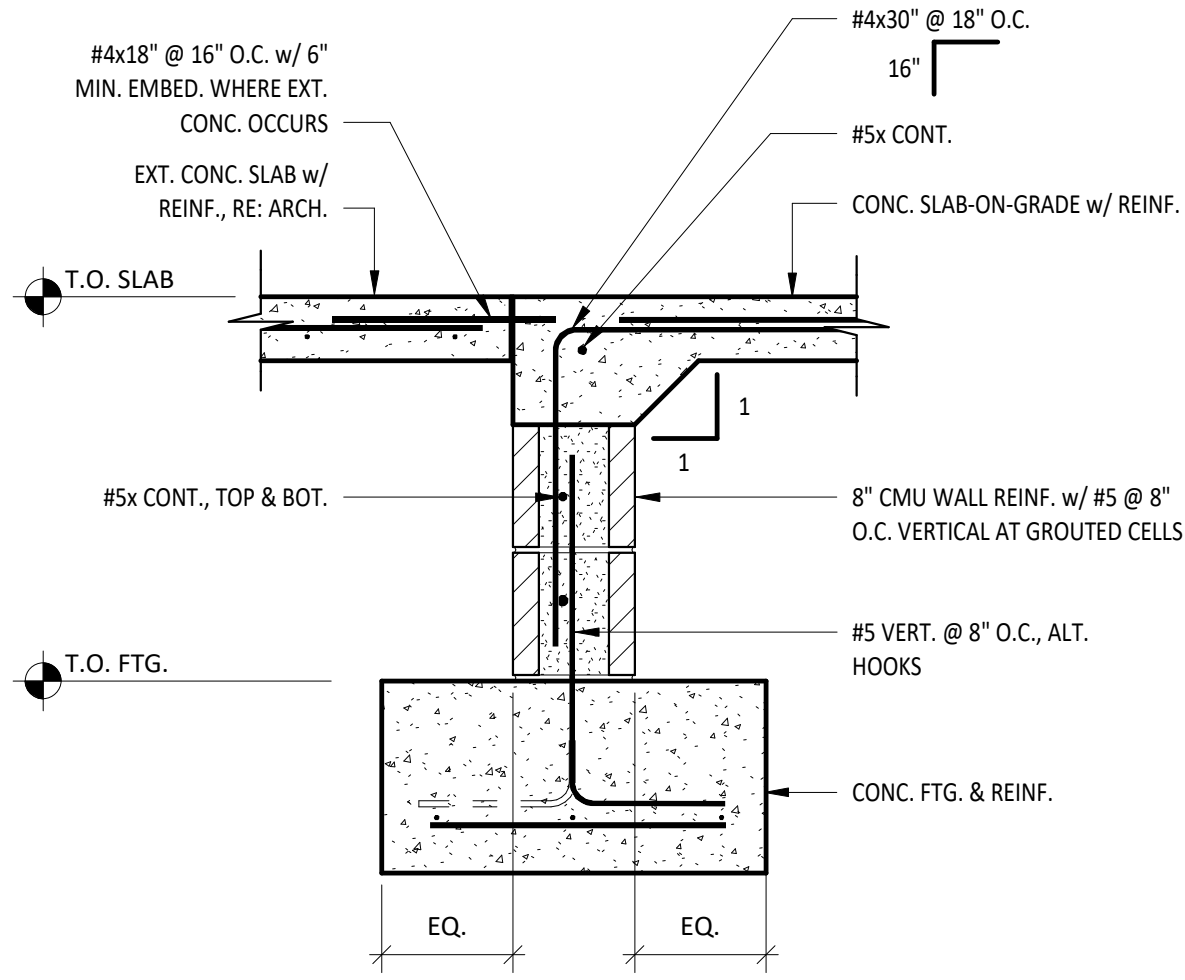
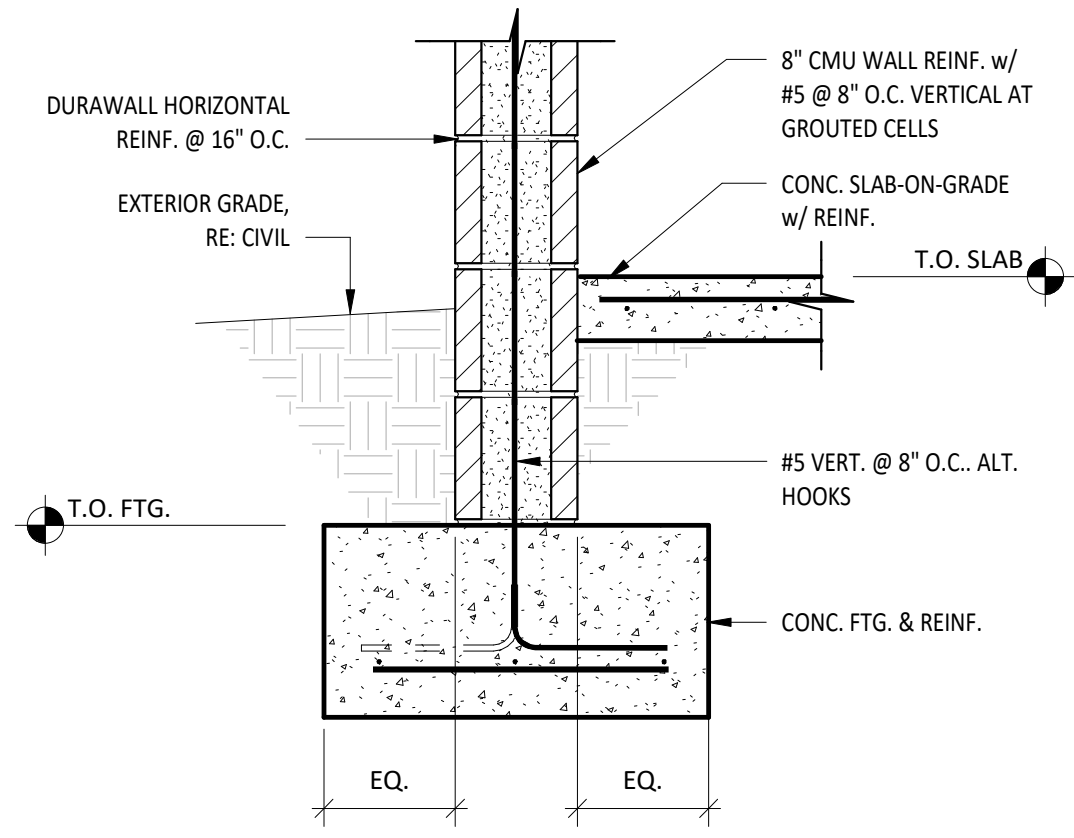
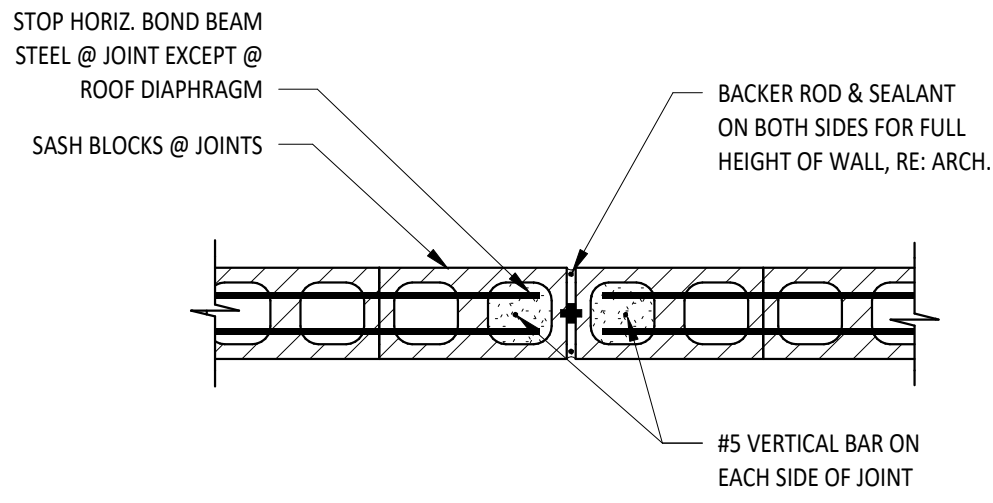
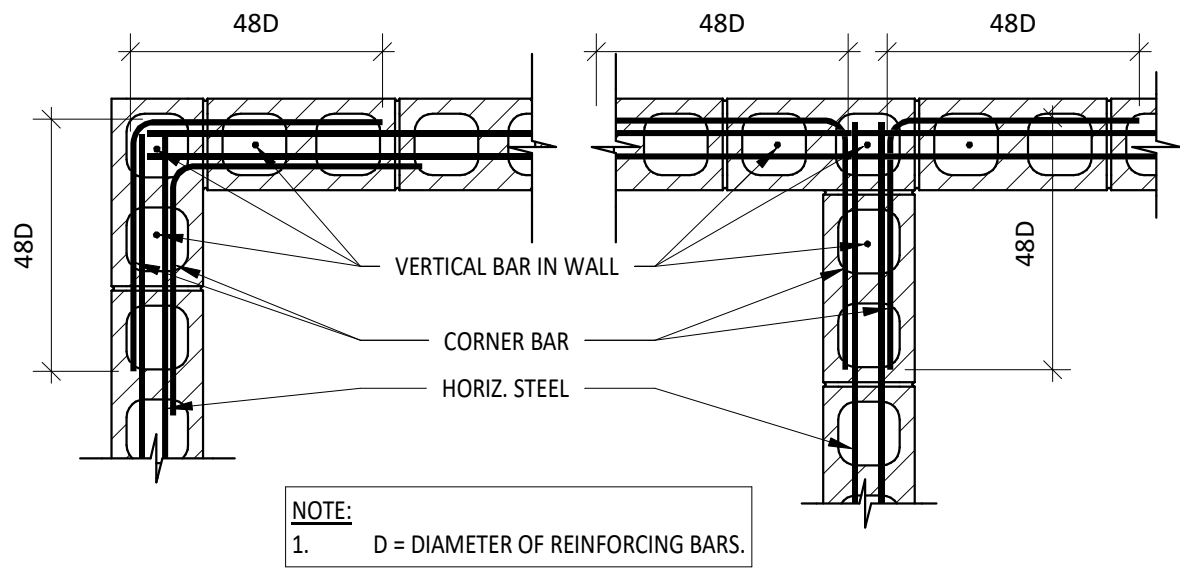
17 PERIMETER WALL FOOTING AT RECESSED FREEZER
1" = 1'-0"



18 PERIMETER WALL FOOTING AT RECESSED COOLER
1" = 1'-0"

REINFORCING LAP SCHEDULE, 1 _d		
BAR SIZE	MASONRY	
	SINGLE BAR	DOUBLE BAR
3	1'-0"	1'-1"
4	1'-3"	2'-0"
5	1'-11"	3'-3"
6	3'-7"	6'-2"
7	5'-0"	8'-8"
8	7'-8"	13'-6"
9	9'-10"	17'-7"
10	12'-5"	22'-6"
11	15'-3"	28'-3"
14	N/A	N/A
18	N/A	N/A

NOTES:
1. MASONRY LAP LENGTHS BASED ON f'm = 1,500 psi.
2. MASONRY "SINGLE BAR" LAP LENGTHS BASED ON BARS CENTERED WALL.
3. MASONRY "DOUBLE BAR" LAP LENGTHS BASED ON BARS OCCURRING AT EACH FACE OF WALL.



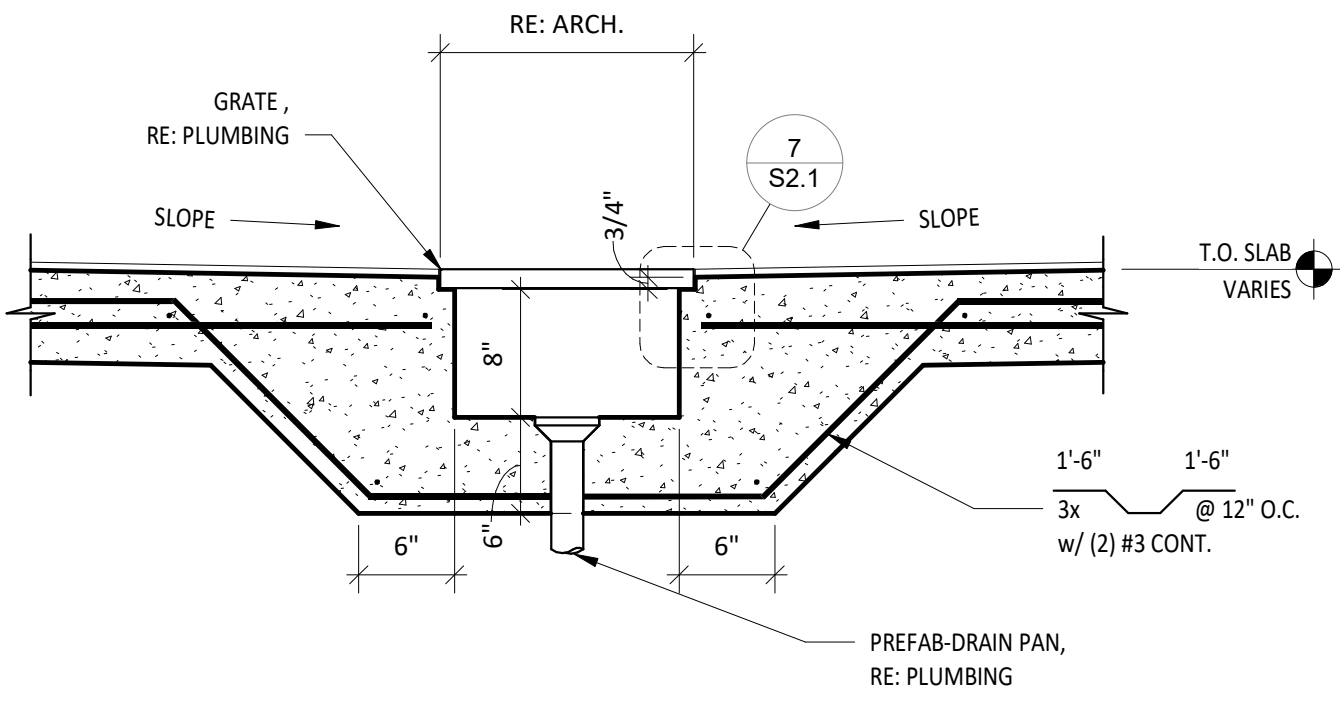
1 LAP SPLICE LENGTH SCHEDULE
1" = 1'-0"

2 CORNER/INTERSECTION REINFORCING
3/4" = 1'-0"

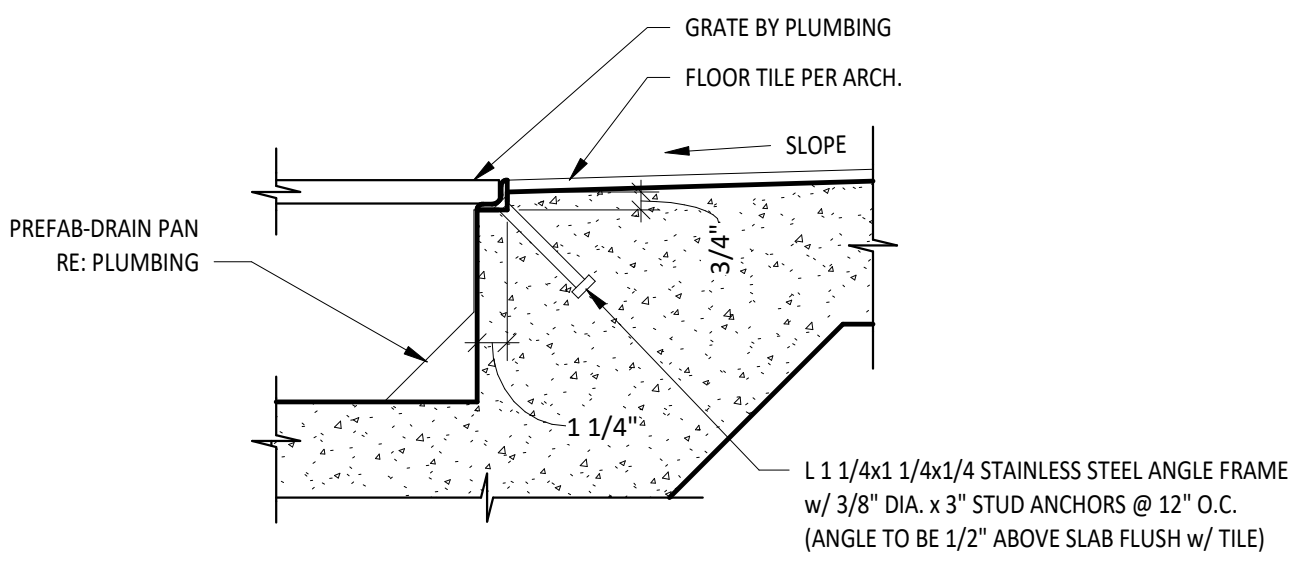
3 CMU WALL CONTROL JOINT
3/4" = 1'-0"

4 CMU DUMPSTER SCREENWALL
1" = 1'-0"

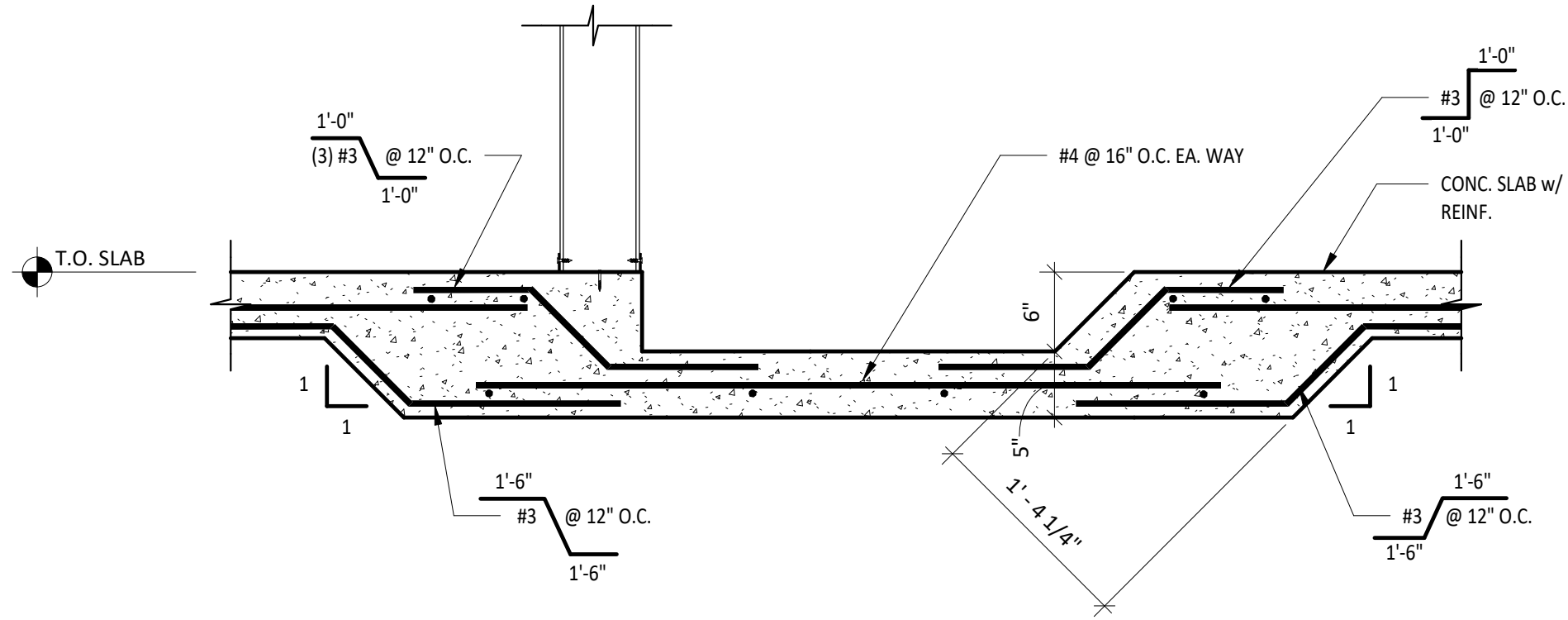
5 CMU DUMPSTER SCREENWALL AT ENTRY
1" = 1'-0"



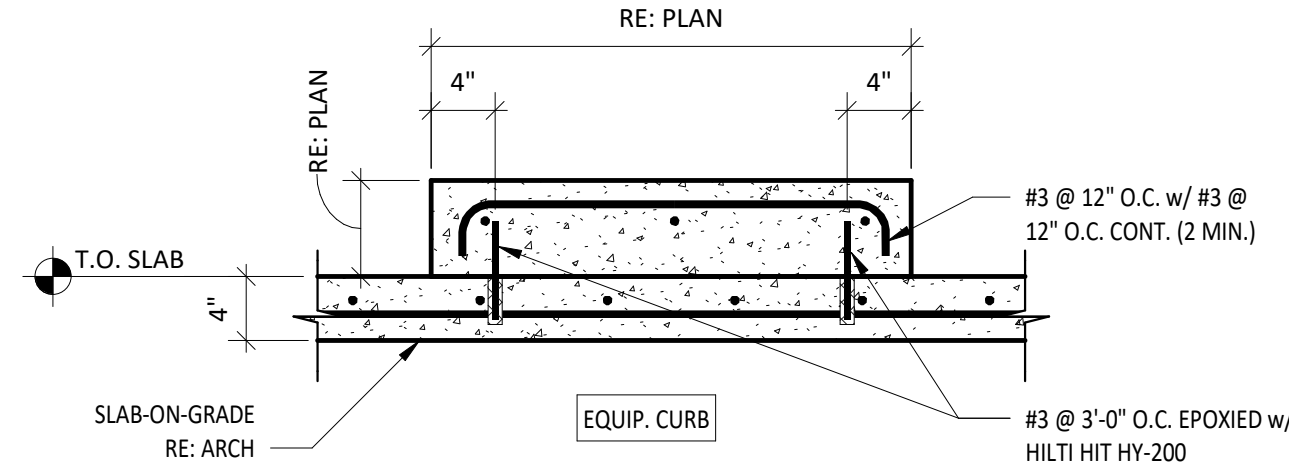
6 TYPICAL FLOOR TRENCH DRAIN
1" = 1'-0"



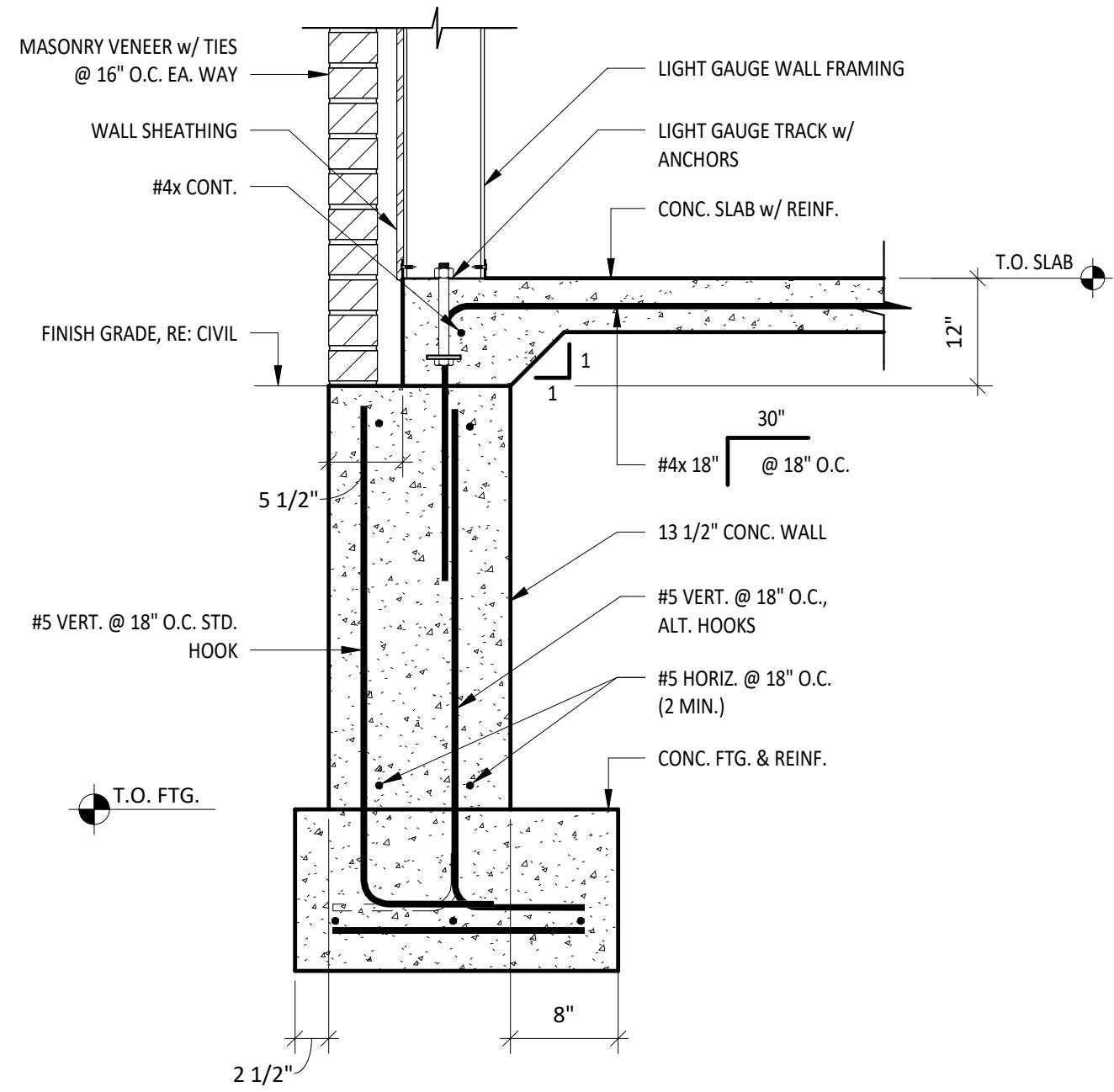
7 TYPICAL TRENCH DRAIN EDGE
1 1/2" = 1'-0"



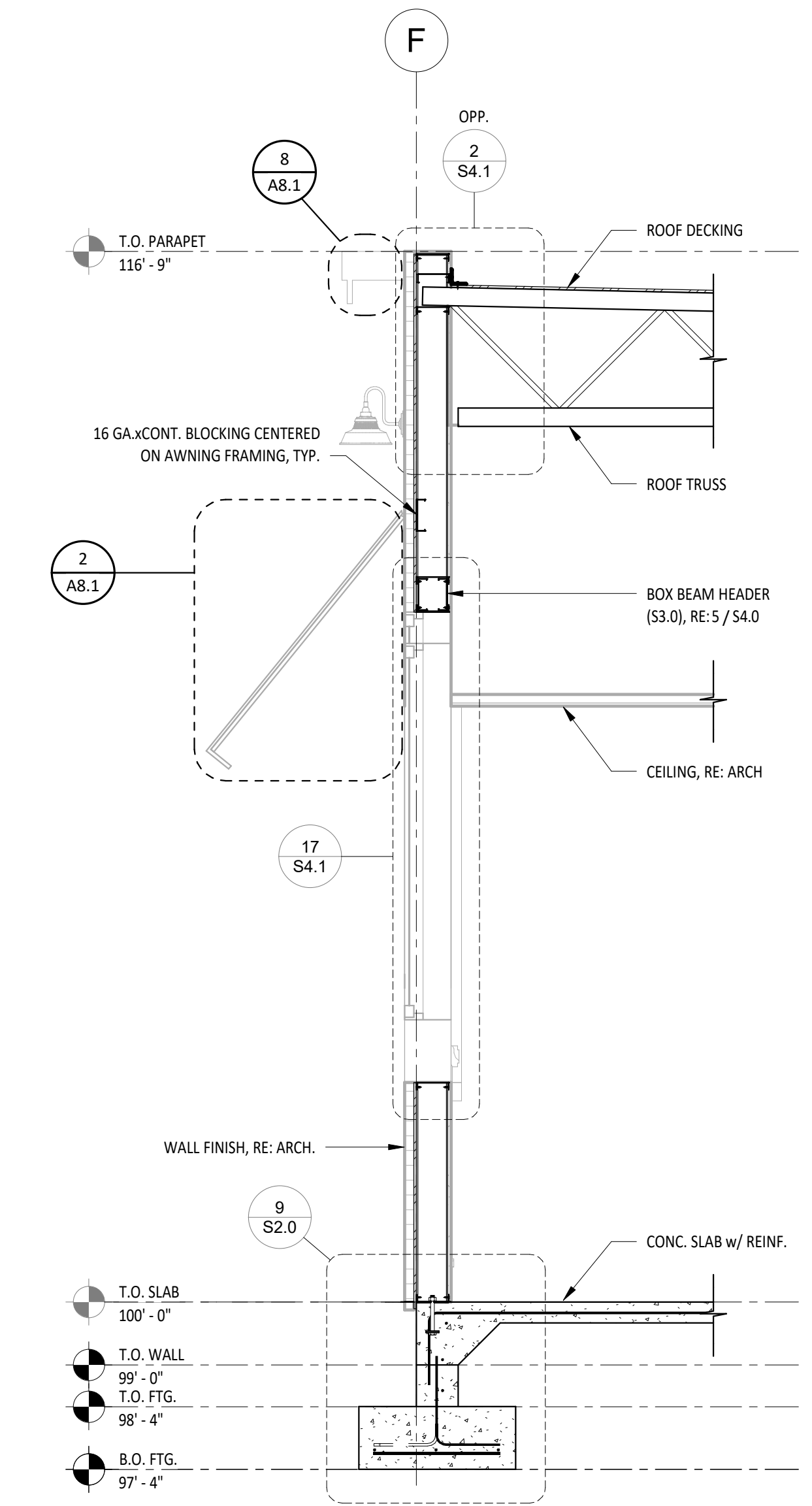
8 RECESSED MOP SINK
1" = 1'-0"



9 TYPICAL CONCRETE CURB
1" = 1'-0"



10 PERIMETER WALL FOOTING AT BRICK LEDGE
1" = 1'-0"

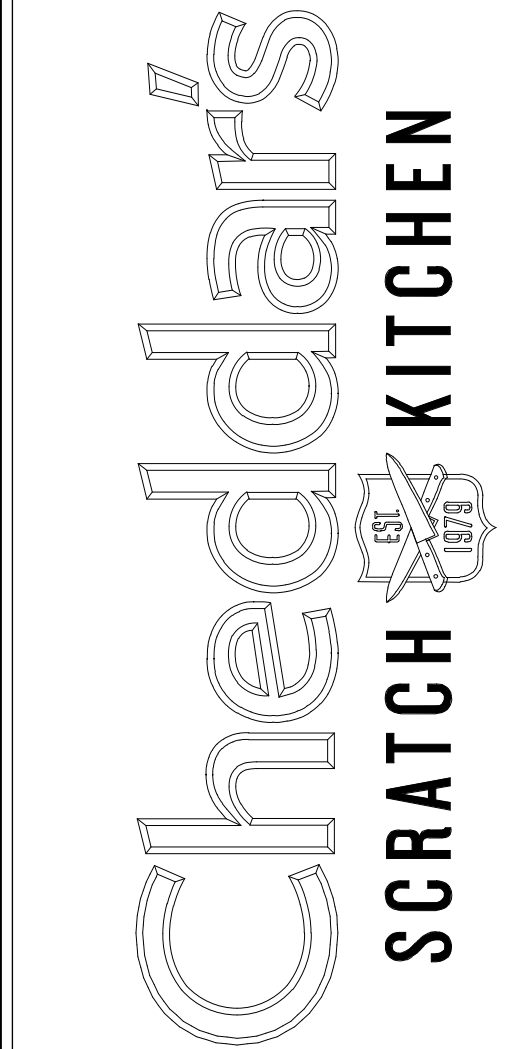
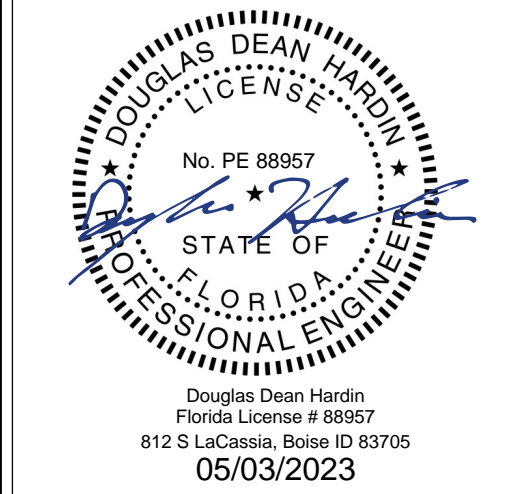


1 BUILDING SECTION
1/2" = 1'-0"

TAMARACK GROVE
ENGINEERING

812 S. La Cassia Drive
Boise, ID 83705
(208) 345-8941
(208) 345-8946
www.tamarackgrove.com
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Project No.: 22-20544

CLIENT:
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ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Issue Date: 11-20-22

REVISION INFORMATION

REV #1	CITY COMMENTS	4/5/23
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Restaurant #: 22K0000

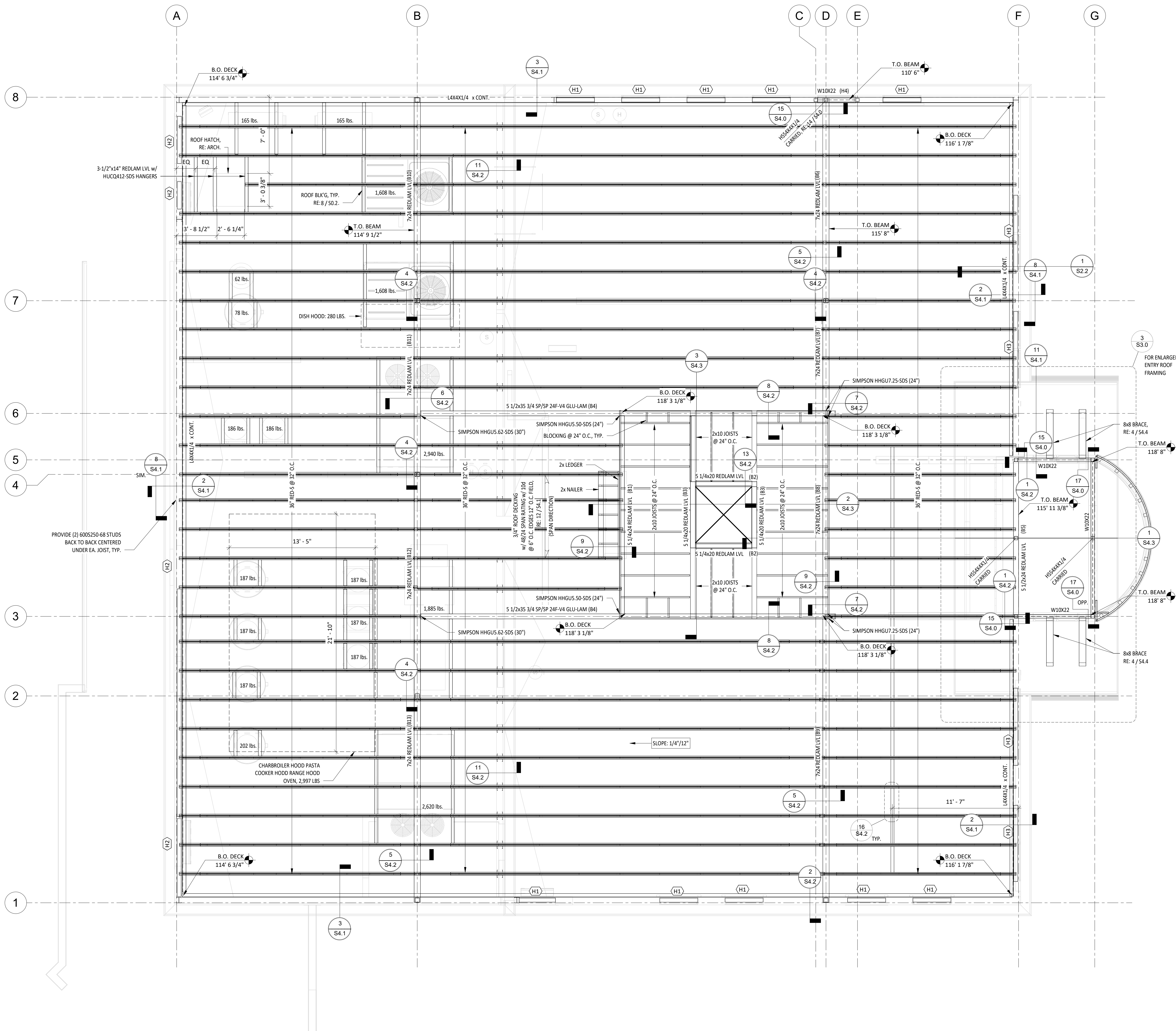
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE.
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
BUILDING
SECTIONS

S2.2



1 ROOF FRAMING PLAN
1/4" = 1'-0"

FRAMING NOTES:

1. TRUSS BEARING ELEVATION = RE: ARCH., TYP.
2. ALL HUNG CEILINGS, HOODS, EXHAUSTS, AND ARCH. ELEMENT CONNECTIONS, RE: ARCH.
3. IN ADDITION TO THE DEAD LOAD, THE CONNECTIONS OF THE OVERBUILD TO THE SUPPORTING TRUSSES AND BLOCKING IMPART THE FOLLOWING WIND LOAD REACTIONS PER LINEAR FOOT, 200 LBS. DOWN AND 200 LBS. UPLIFT.
4. DESIGN TRUSSES ADJACENT TO ROOF SCREEN POSTS FOR 500 LBS. VERT. DEAD LOAD.
5. FOR TYPICAL FRAMING DETAILS NOT CUT ON PLAN RE: S4.0, S4.1, S4.2 & S4.3.

INTERIOR LIGHT GAUGE FRAMING HEADER SCHEDULE (L/240)

SPAN	3 5/8" WALL FRAMING		6" WALL FRAMING	
	JAMB STUDS	HEADER FRAMING	JAMB STUDS	HEADER FRAMING
0'-0" TO 4'-0"	3625162-33	(2) 362T125-33 TOP & BOTTOM w/ (2) 362S162-33 VERTICAL	6005162-33	(2) 600T125-33 TOP & BOTTOM w/ (2) 600S162-33 VERTICAL
4'-1" TO 8'-0"	3625162-43	(2) 362T125-43 TOP & BOTTOM w/ (2) 362S162-43 VERTICAL	6005162-43	(2) 600T125-43 TOP & BOTTOM w/ (2) 600S162-43 VERTICAL
8'-1" TO 12'-0"	3625162-54	(2) 362T125-54 TOP & BOTTOM w/ (2) 362S162-54 VERTICAL	6005162-54	(2) 600T125-54 TOP & BOTTOM w/ (2) 600S162-54 VERTICAL

EXTERIOR LIGHT GAUGE FRAMING HEADER SCHEDULE (L/240)

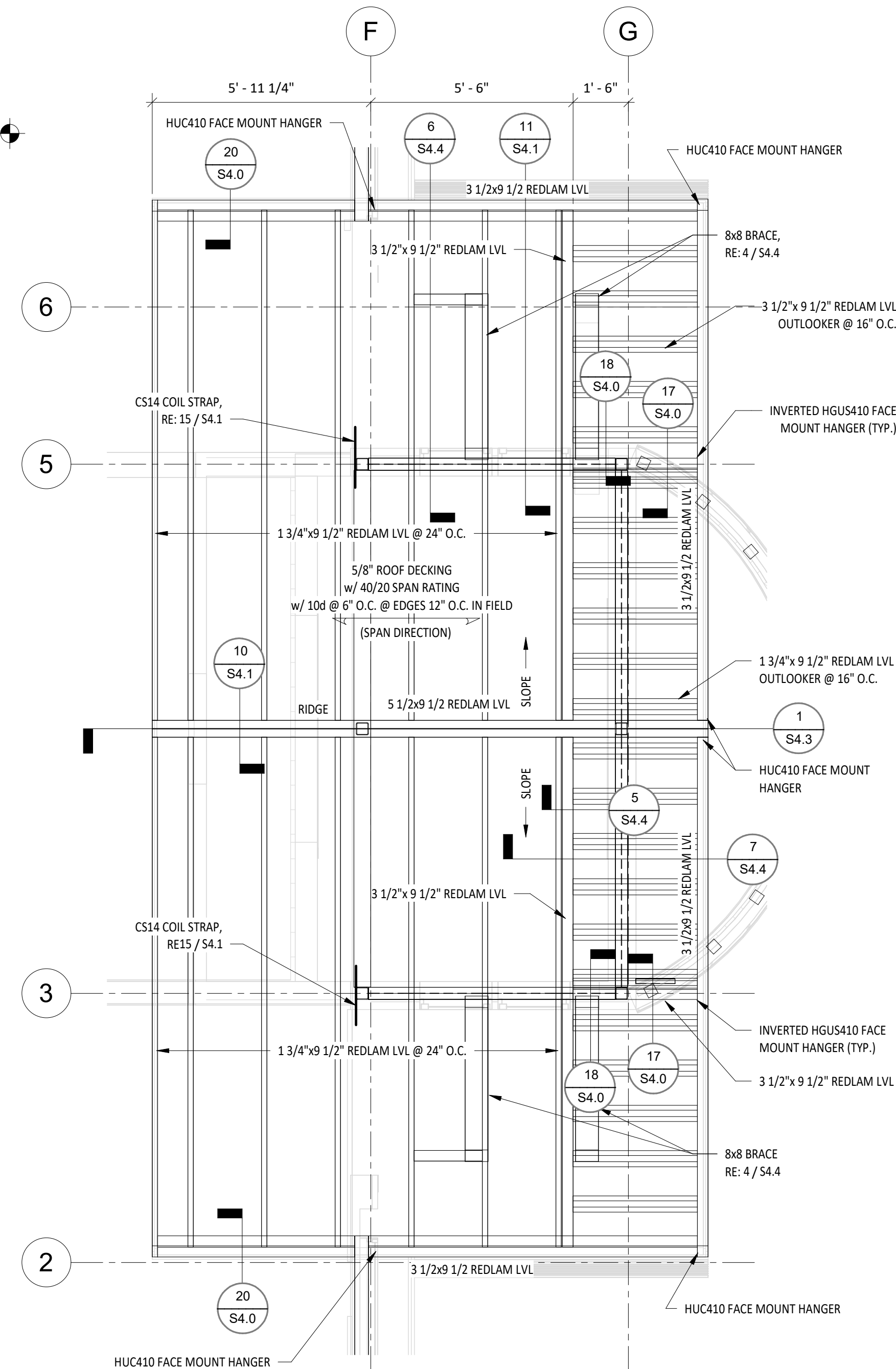
SPAN	SYMBOL	6" WALL FRAMING	
		JAMB STUDS	HEADER FRAMING
0'-0" TO 4'-0"	H1	600S162-97	(2) 600T125-43 TOP & BOTTOM w/ (2) 600S162-43 VERTICAL
4'-1" TO 6'-0"	H2	(1) 600T250-97 (1) 600S250-97 NESTED	(2) 600T250-97 TOP & BOTTOM w/ (2) 600S162-97 VERTICAL STIFFENERS REQUIRED
6'-1" TO 8'-0"	H3	600S250-97	(2) 600T125-97 TOP & BOTTOM w/ (2) 600S162-97 VERTICAL

INTERIOR LIGHT GAUGE FRAMING (L/240):

	3 5/8" WALL FRAMING	6" WALL FRAMING
BOTTOM TRACK	362T125-33	600T125-33
WALL FRAMING	362S162-33 @ 24" O.C.	600S162-33 @ 24" O.C.
SILL	362T125-33	600T125-33
HEADER	SEE SCHEDULE	SEE SCHEDULE
TOP TRACK	362T125-33	600T125-33

EXTERIOR LIGHT GAUGE FRAMING SCHEDULE (L/240)

	6" WALL FRAMING
BOTTOM TRACK	600T125-43
WALL FRAMING	600S250-68 @ 16" O.C.
SILL	600T125-43
HEADER	SEE SCHEDULE
TOP TRACK	600T125-43



3 ENLARGED ENTRY ROOF FRAMING PLAN
3/8" = 1'-0"

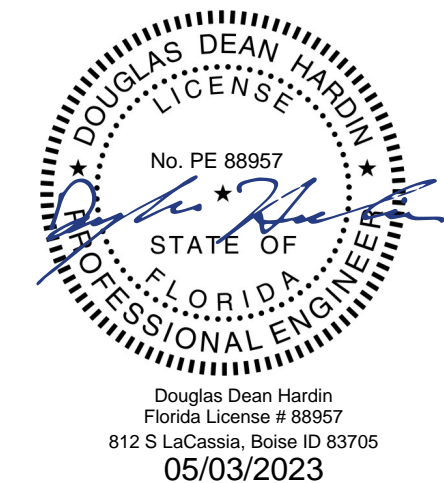


812 S. La Cassia Drive
Boise, ID 83705
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www.tamarackgrove.com
Firm No.: M14000009249
Project No.: 22-20544

CLIENT:

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1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Cheddar's
SCRATCH KITCHEN

Issue Date: 11-20-22

REVISION INFORMATION

REV #2 CLIENT COMMENTS 4/5/23

Restaurant #: 22K0000

CHEDDARS
SCRATCH KITCHEN
PROTO 18

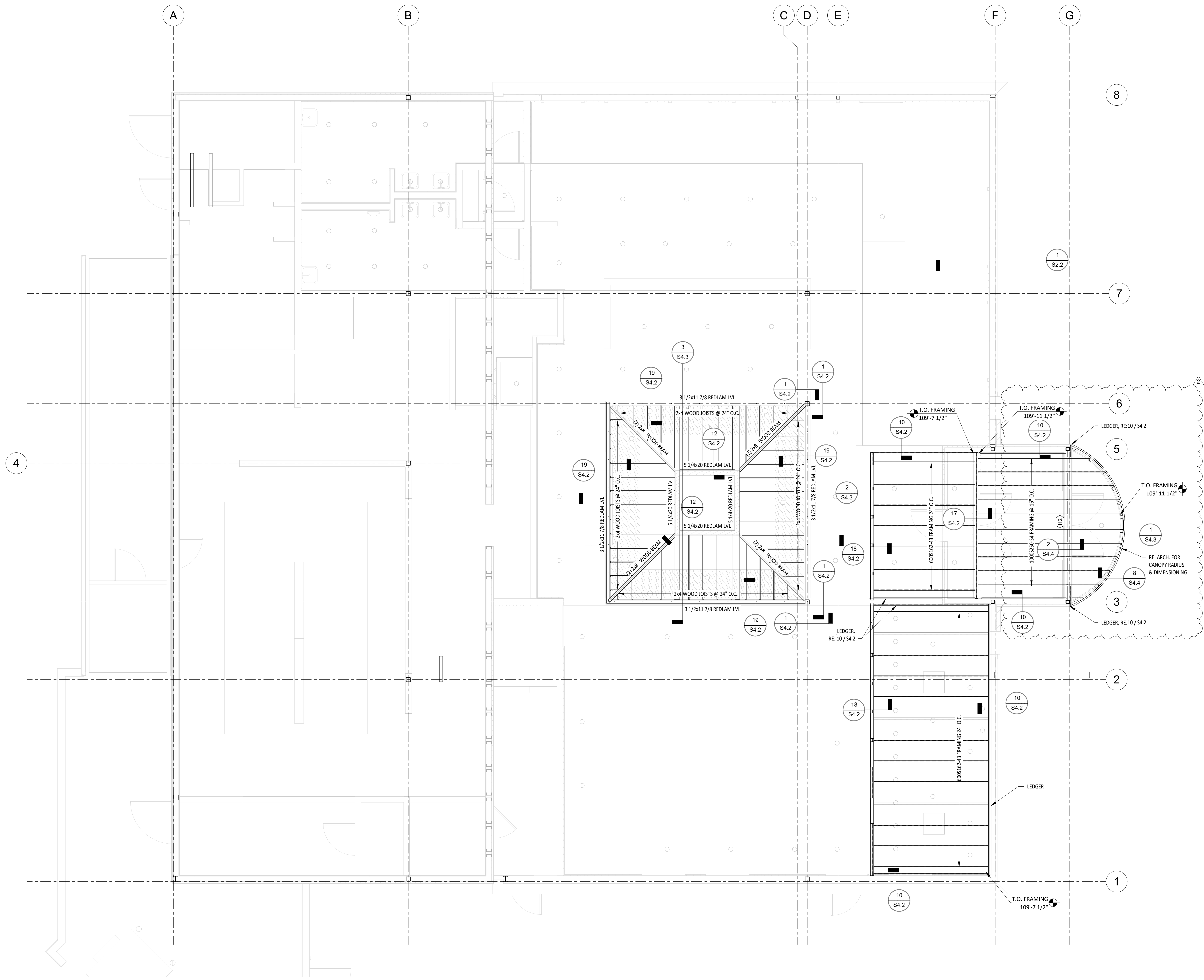
10150 BLOOMINGDALE AVE.
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:

ROOF FRAMING
PLAN

S3.0

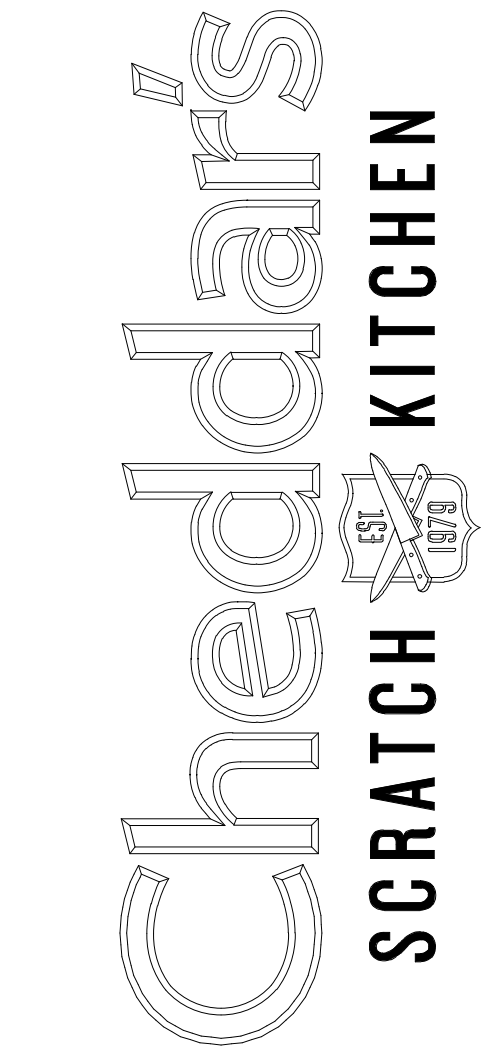


EXTERIOR LIGHT GAUGE FRAMING HEADER SCHEDULE (1/2x20)			
SPAN	SYMBOL	6" WALL FRAMING	
		JAMB STUDS	HEADER FRAMING
0'-0" TO 4'-0"	H1	600S162-97	(2) 600T125-43 TOP & BOTTOM w/ (2) 600S162-43 VERTICAL
4'-1" TO 6'-0"	H2	(1) 600T250-97 (1) 600S250-97 NESTED	(2) 600T250-97 TOP & BOTTOM w/ (2) 600S162-97 VERTICAL STIFFENERS REQUIRED
6'-1" TO 8'-0"	H3	600S250-97	(2) 600T125-97 TOP & BOTTOM w/ (2) 600S162-97 VERTICAL



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Issue Date: 11-20-22

REVISION INFORMATION

REV #2	CLIENT COMMENTS	4/5/23
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Restaurant #: 22K0000

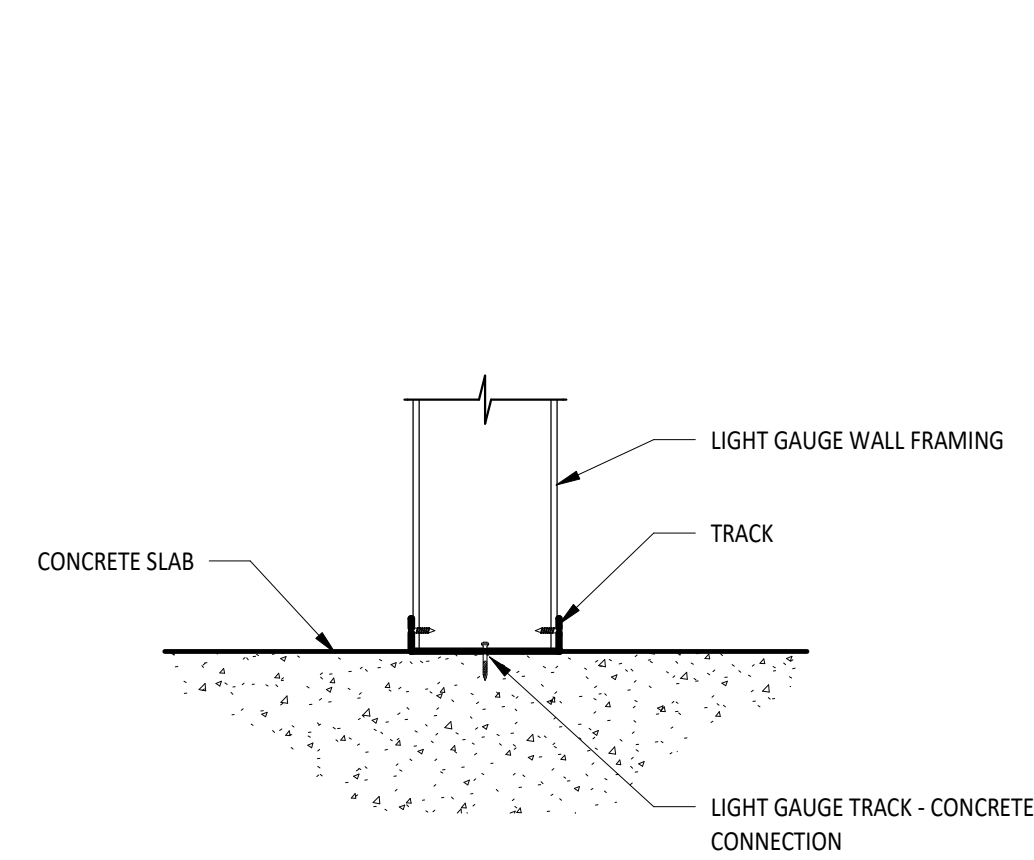
CHEDDARS
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE.
RIVERVIEW, FL 33578

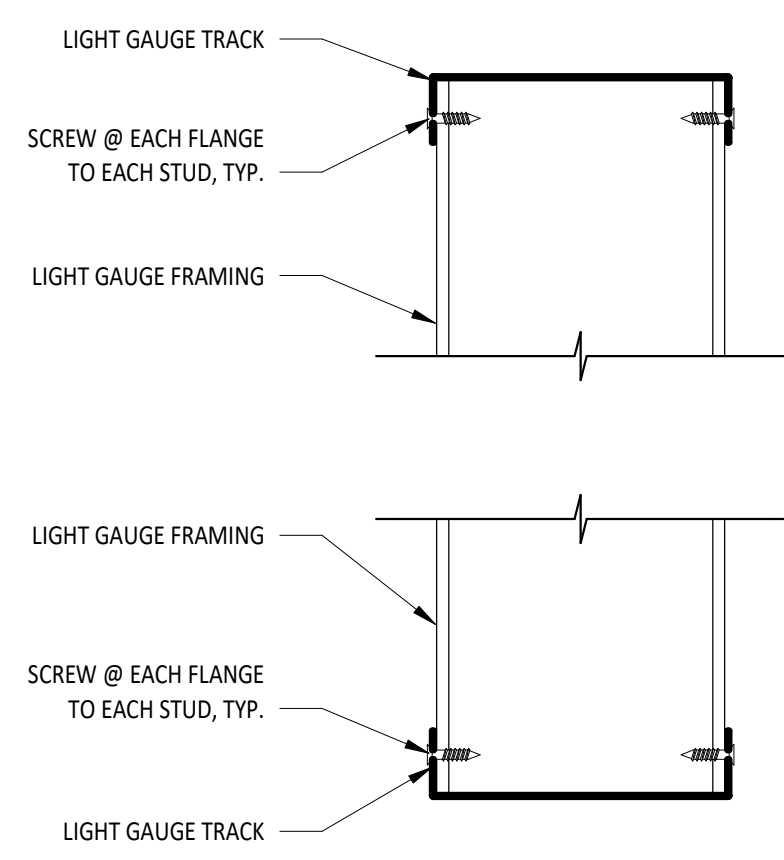
RIVERVIEW, FL

Drawing:
CEILING FRAMING
PLAN

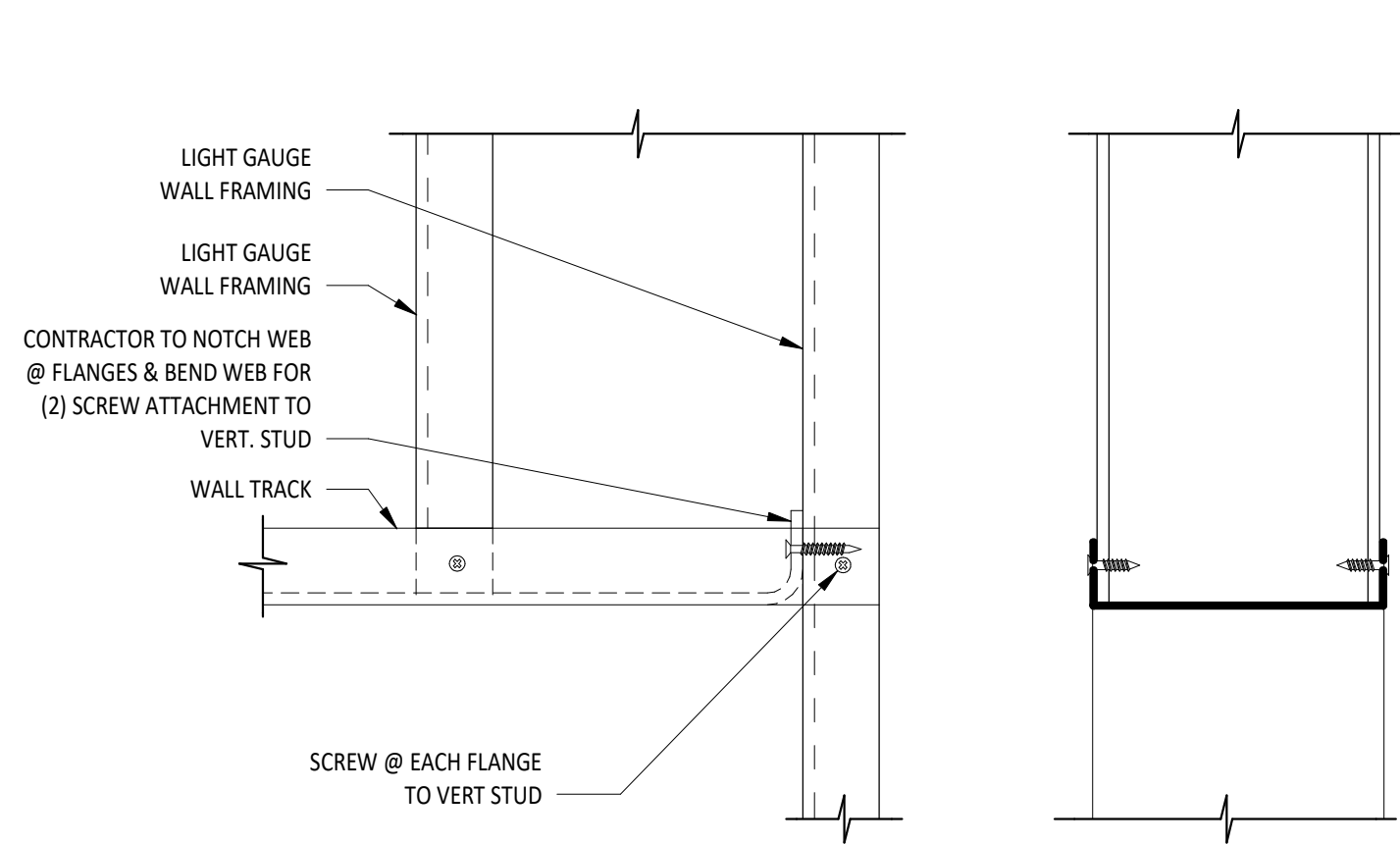
S3.2



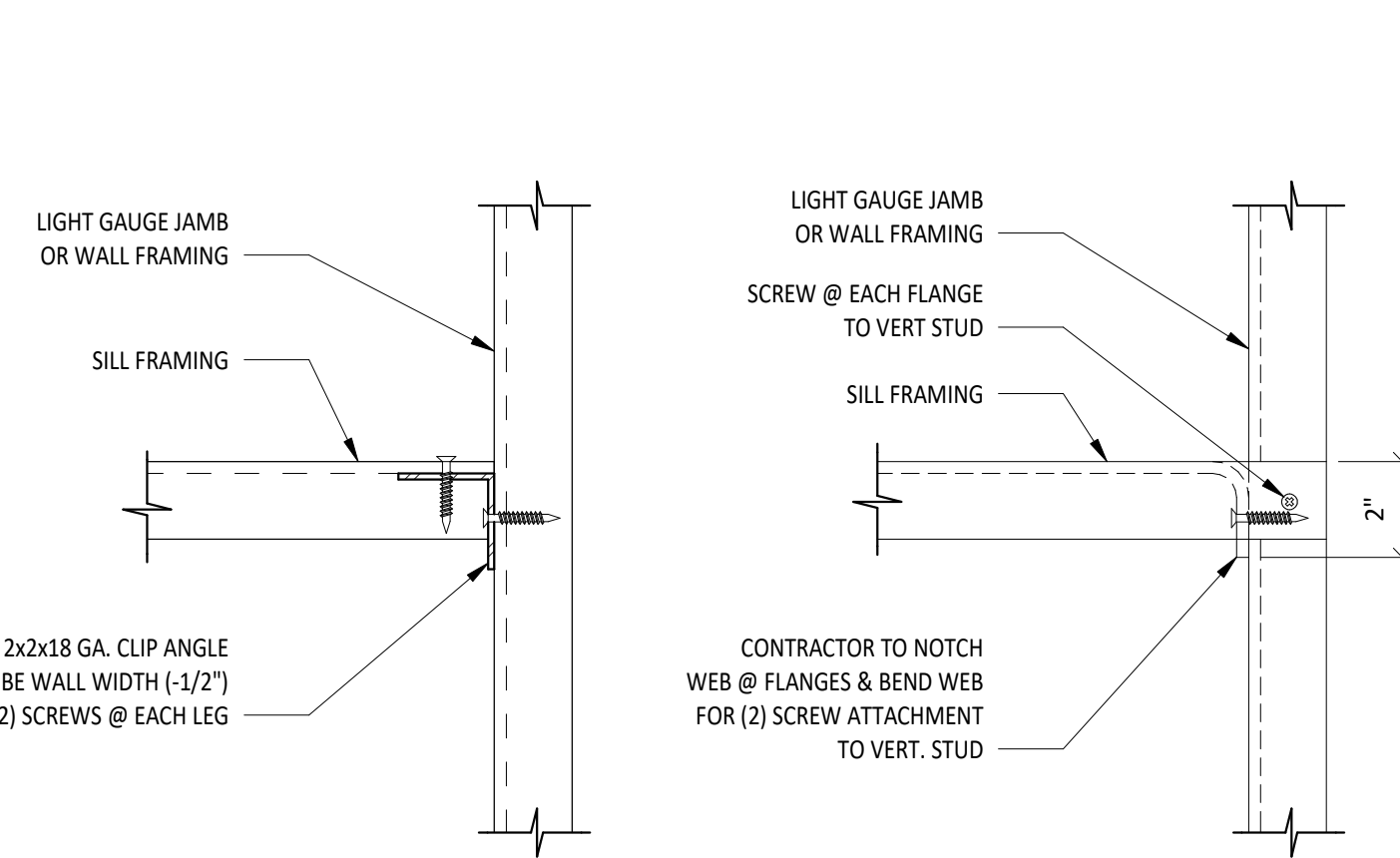
1 STUD WALL TRACK - CONCRETE CONNECTION
1 1/2" = 1'-0"



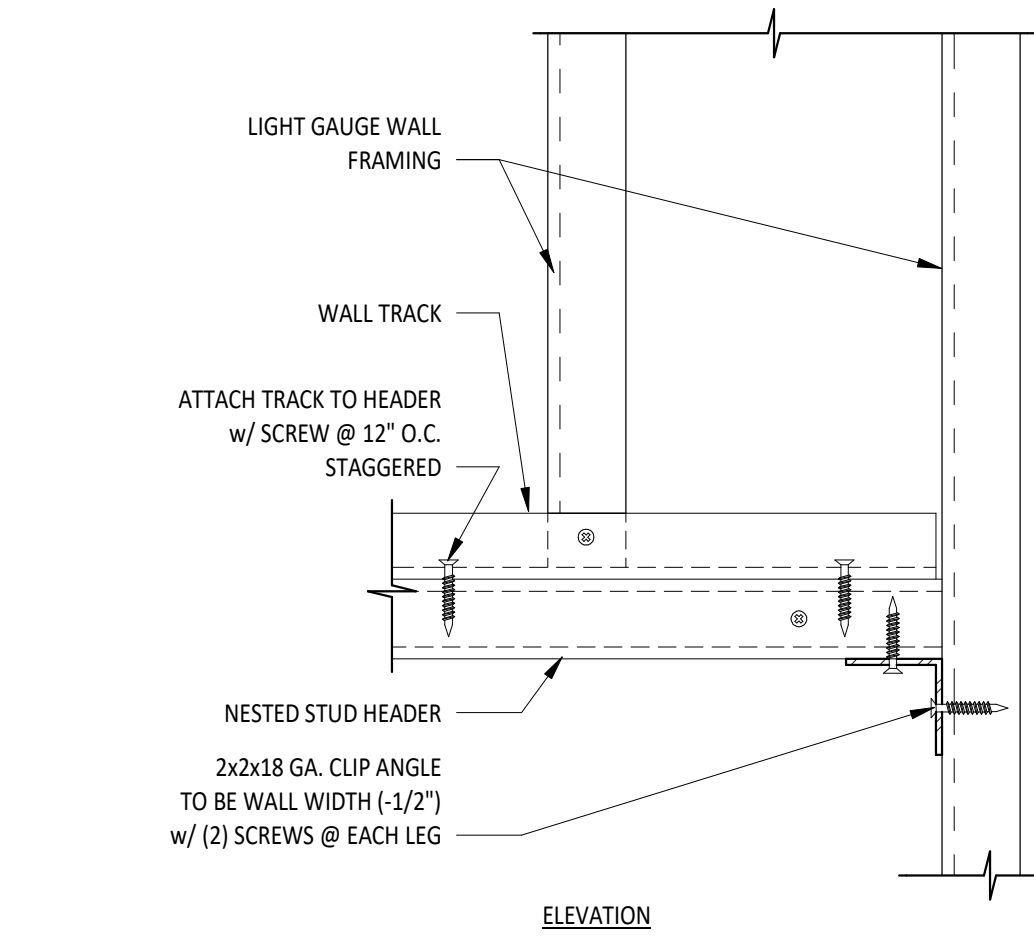
2 TRACK - STUD CONNECTION
3" = 1'-0"



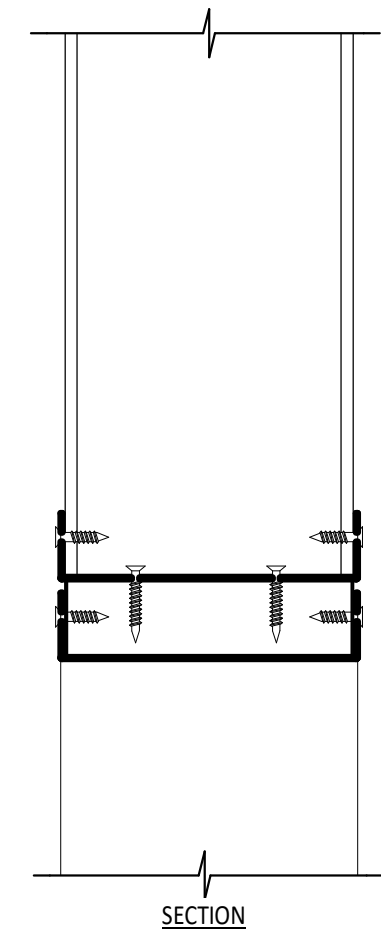
3 TRACK FRAMED OPENING CONNECTION
3" = 1'-0"



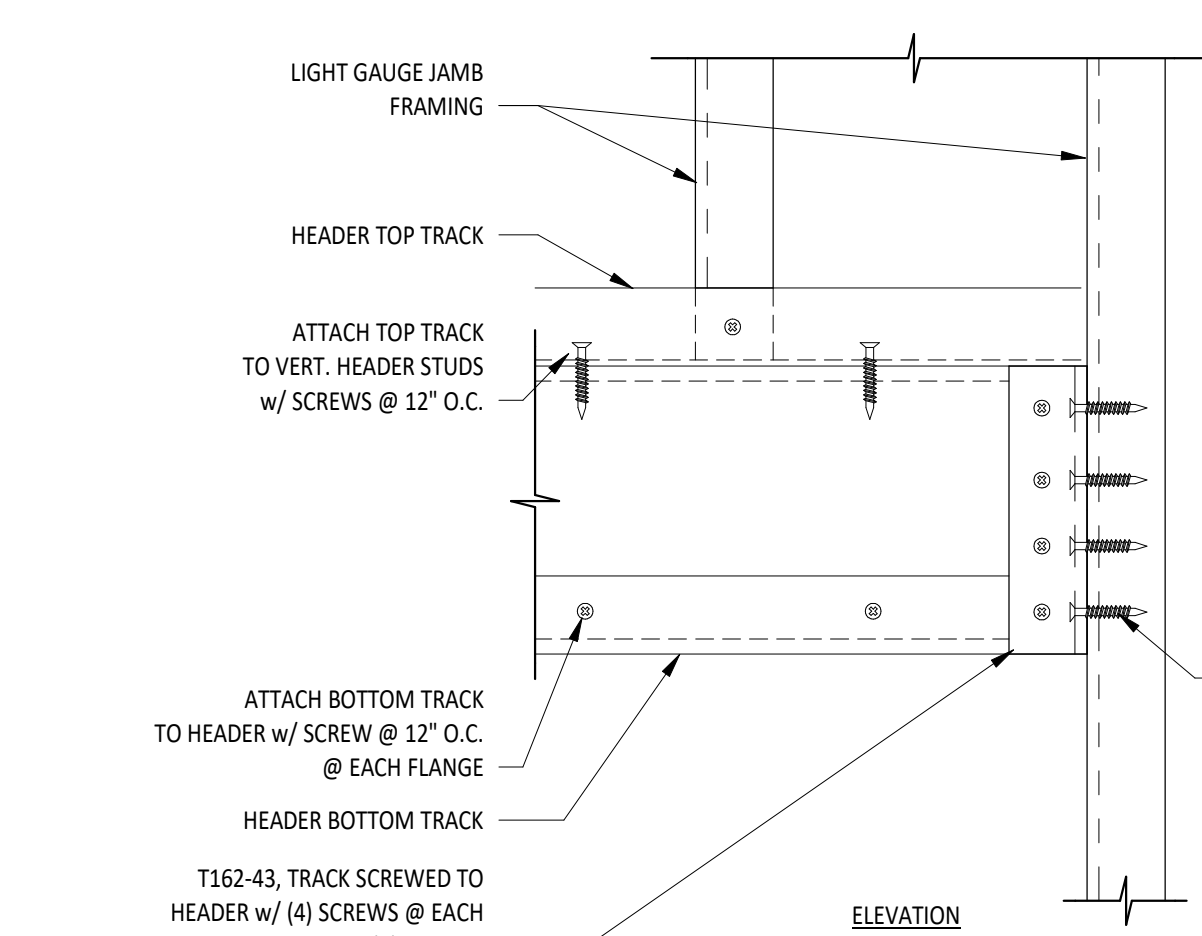
4 SILL - JAMB CONNECTION
3" = 1'-0"



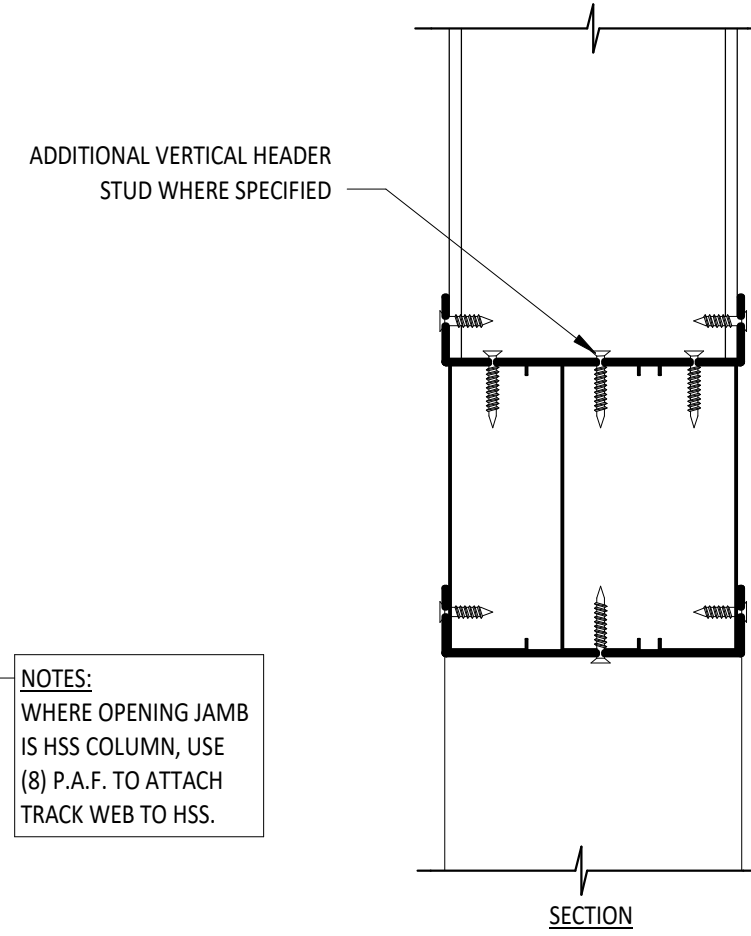
5 TYPICAL HEADER FRAMING
3" = 1'-0"



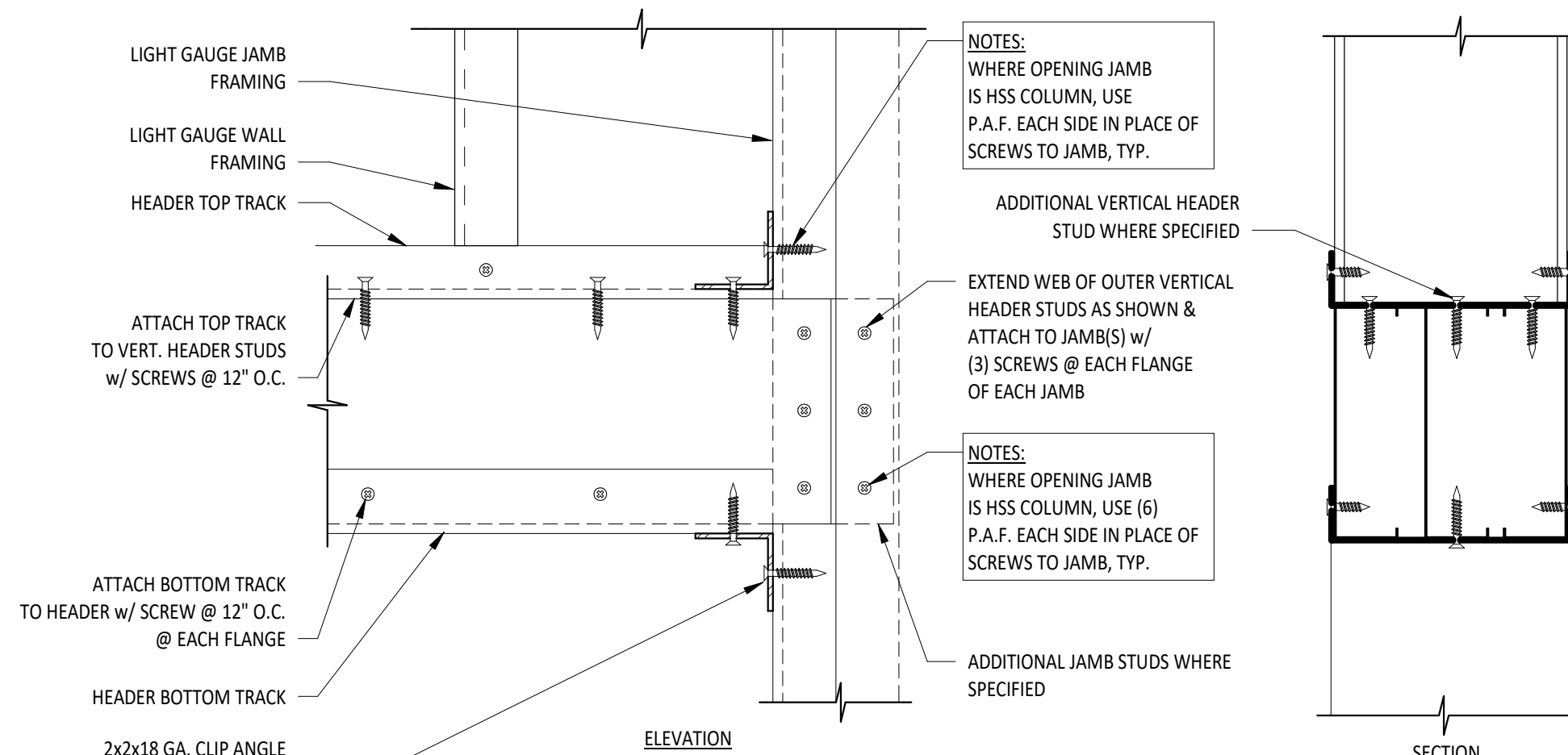
6 MULTIPLE JAMB CONNECTION - OPTION 1
1 1/2" = 1'-0"



7 MULTIPLE JAMB CONNECTION - OPTION 2
6" = 1'-0"



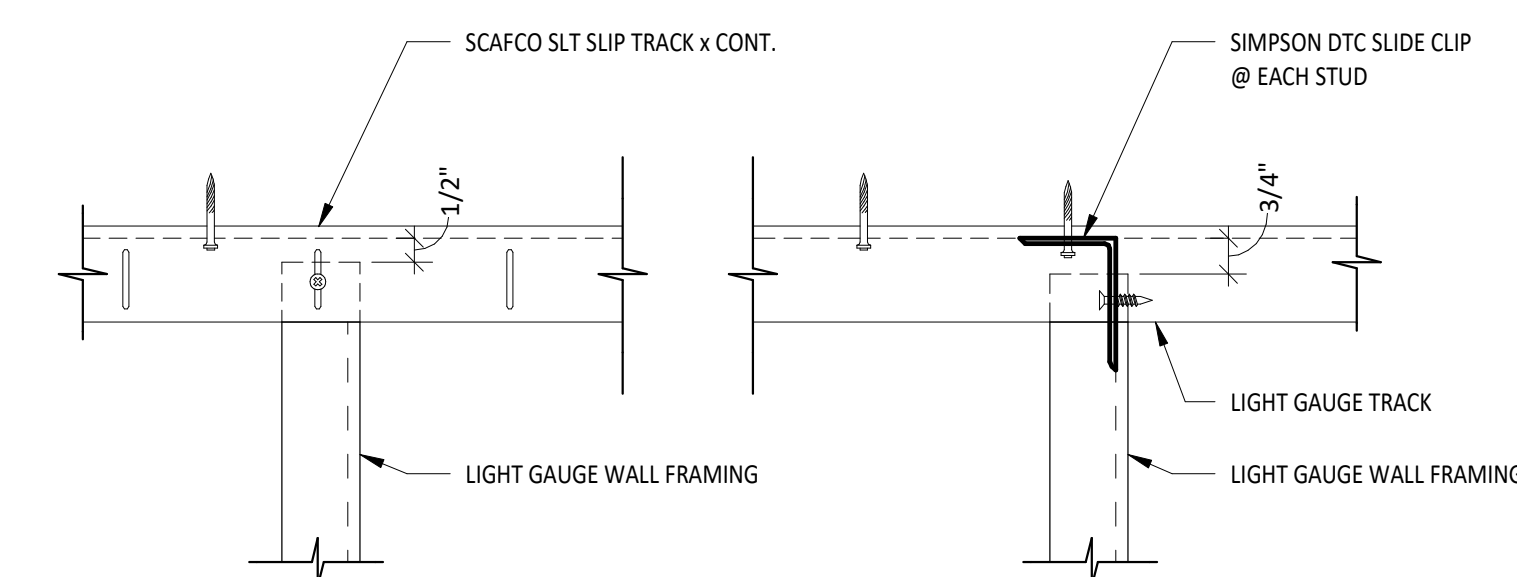
8 CORNER FRAMING CONNECTION
3" = 1'-0"



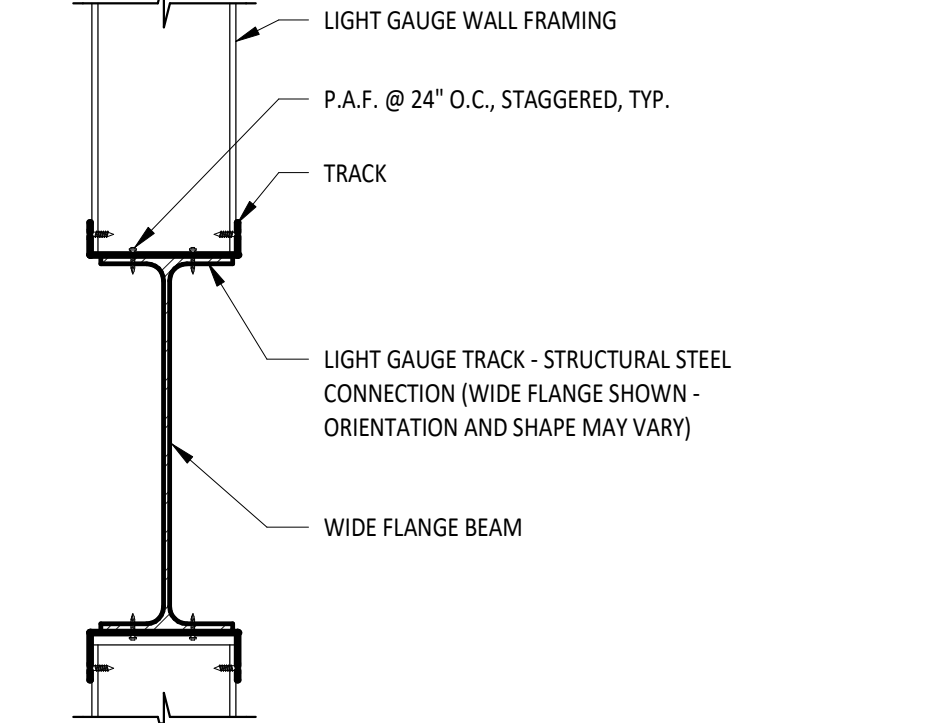
9 TRACK - CROSSING STUD CONNECTION
3" = 1'-0"



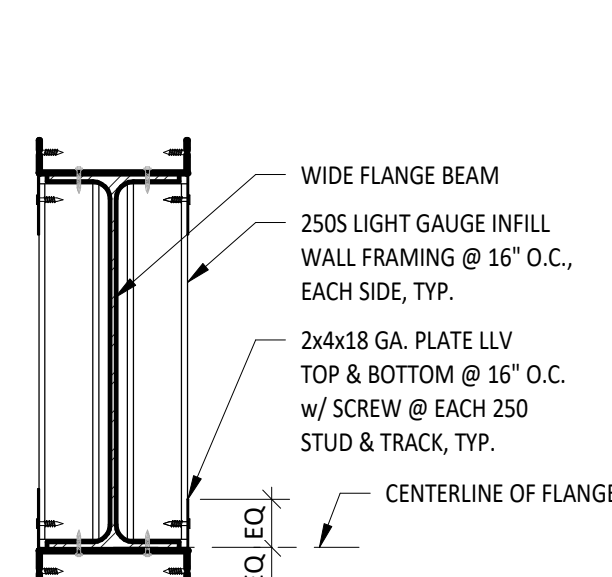
10 TYPICAL STUD - STUD CONNECTION
3" = 1'-0"



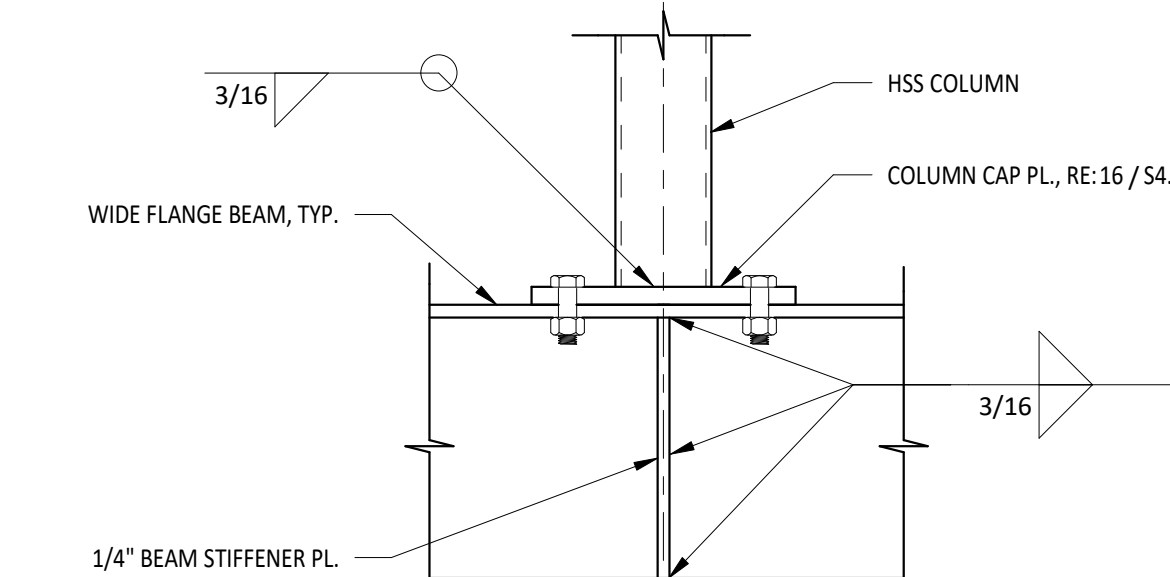
11 TYPICAL STEEL STUD - SLIP TRACK CONNECTION
3" = 1'-0"



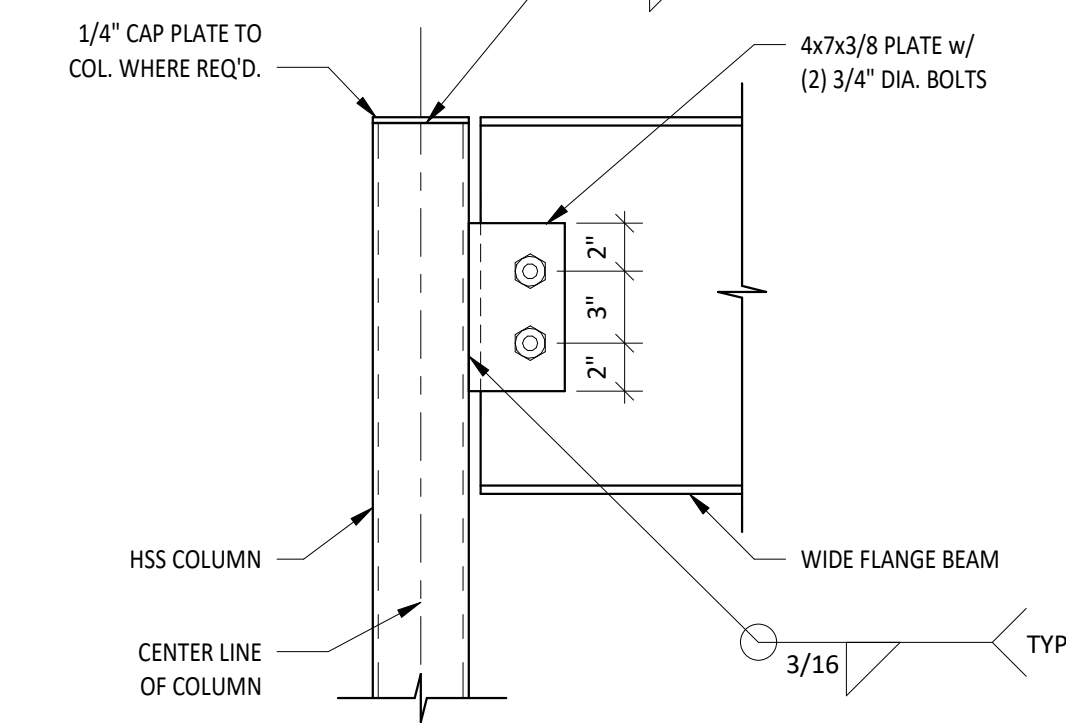
12 STUD WALL TRACK - STRUCTURE CONNECTION
1 1/2" = 1'-0"



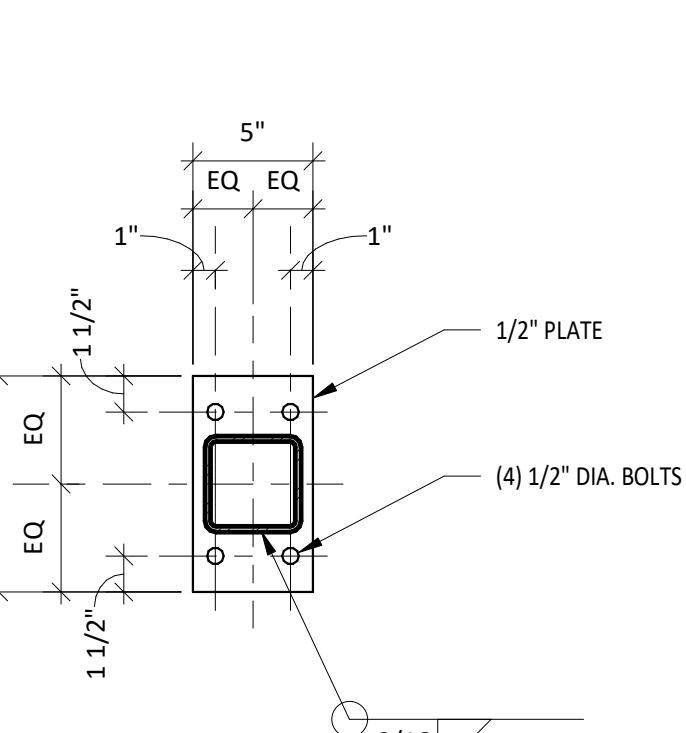
13 STUD WALL TRACK - STRUCTURE CONNECTION
1 1/2" = 1'-0"



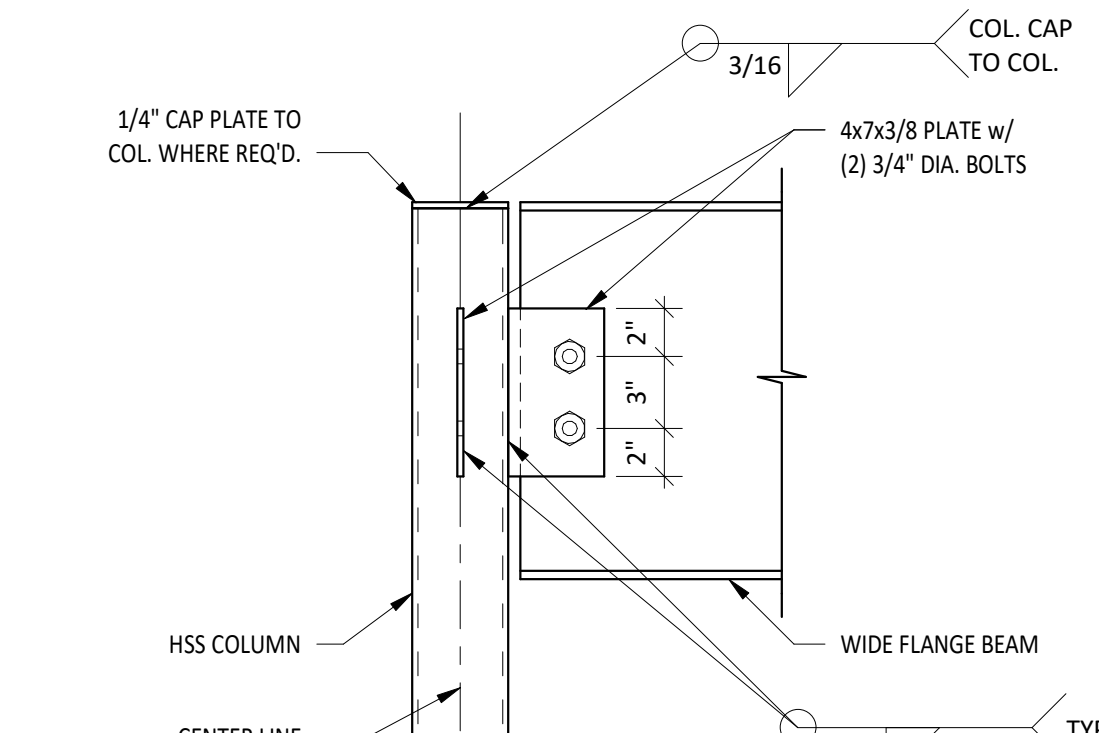
14 TYPICAL BEAM TO COLUMN CONNECTION
1 1/2" = 1'-0"



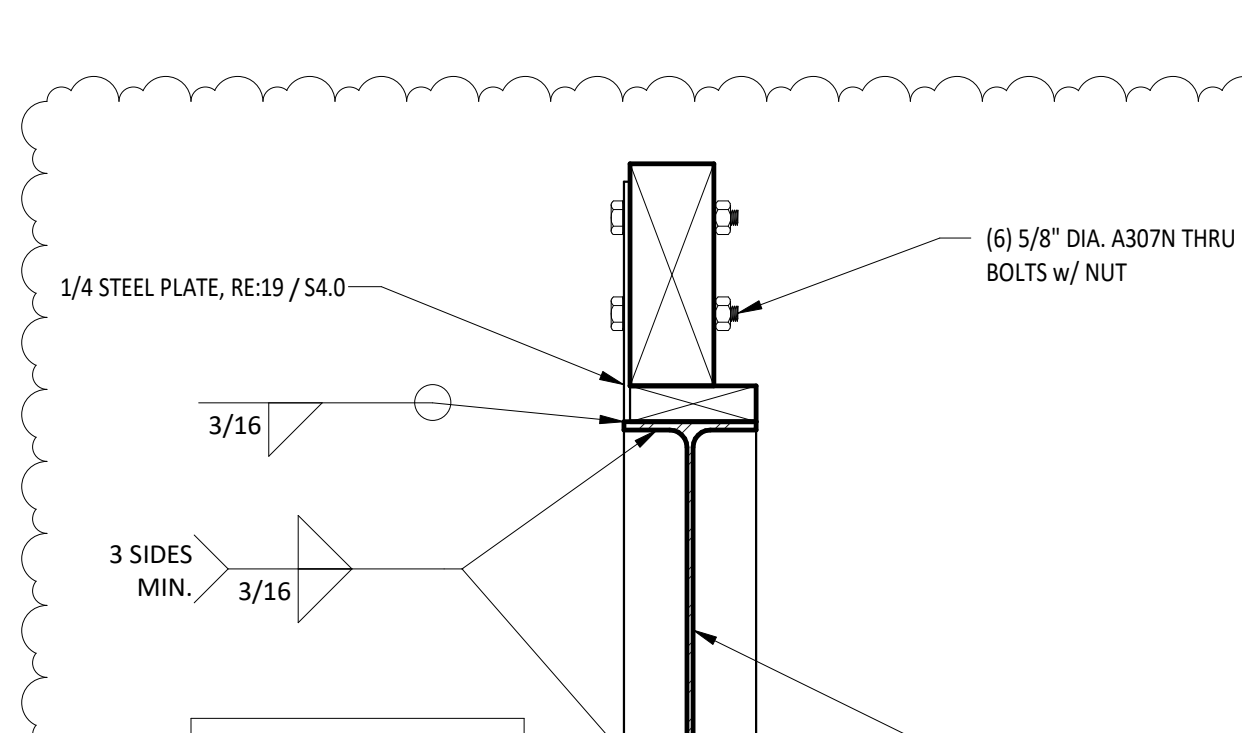
15 COLUMN - BEAM SHEAR CONNECTION
1 1/2" = 1'-0"



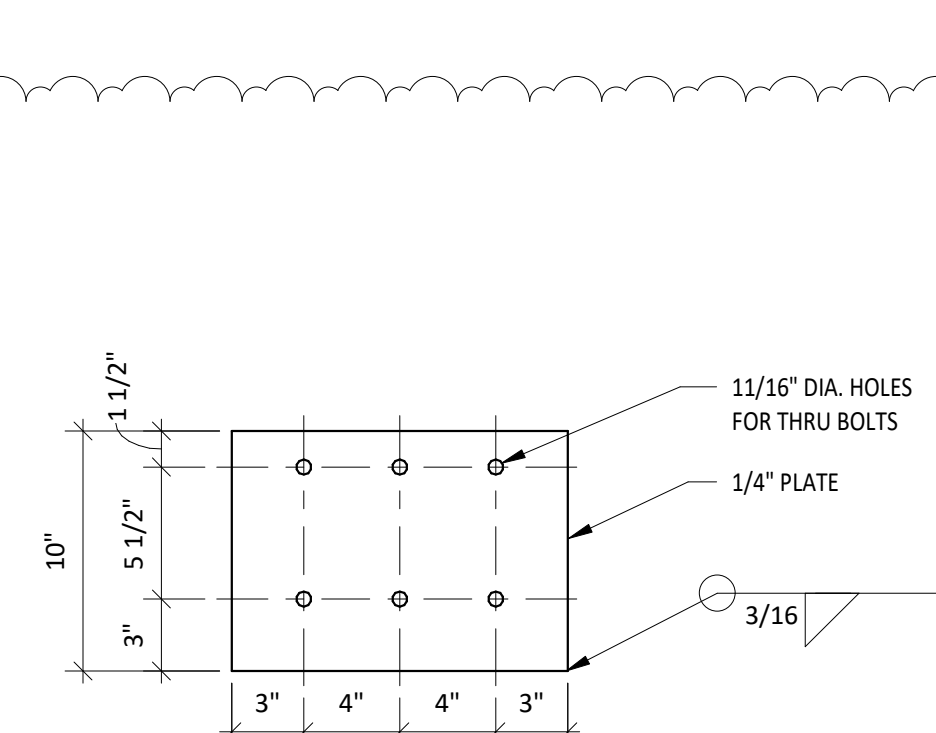
16 CAP PLATE DETAILS
1 1/2" = 1'-0"



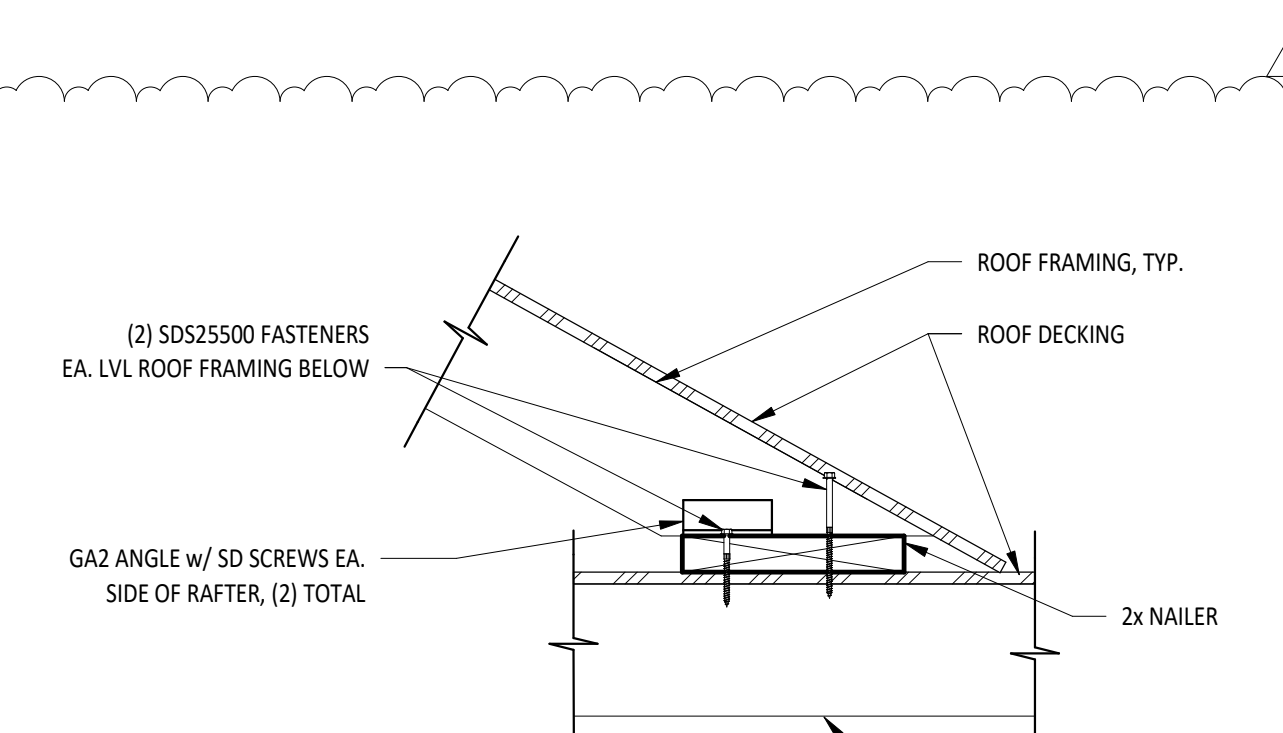
17 COLUMN - BEAM SHEAR CONNECTION
1 1/2" = 1'-0"



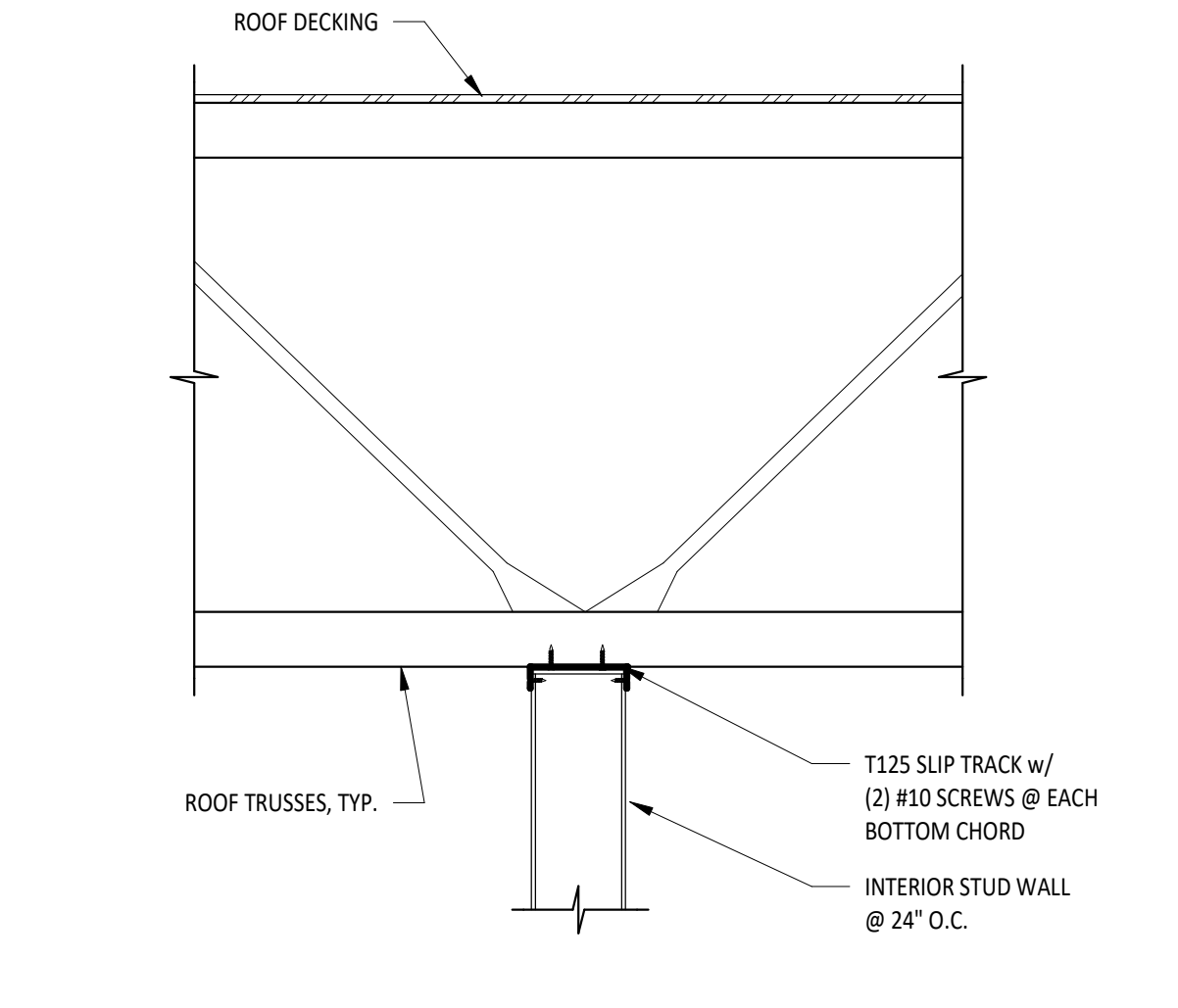
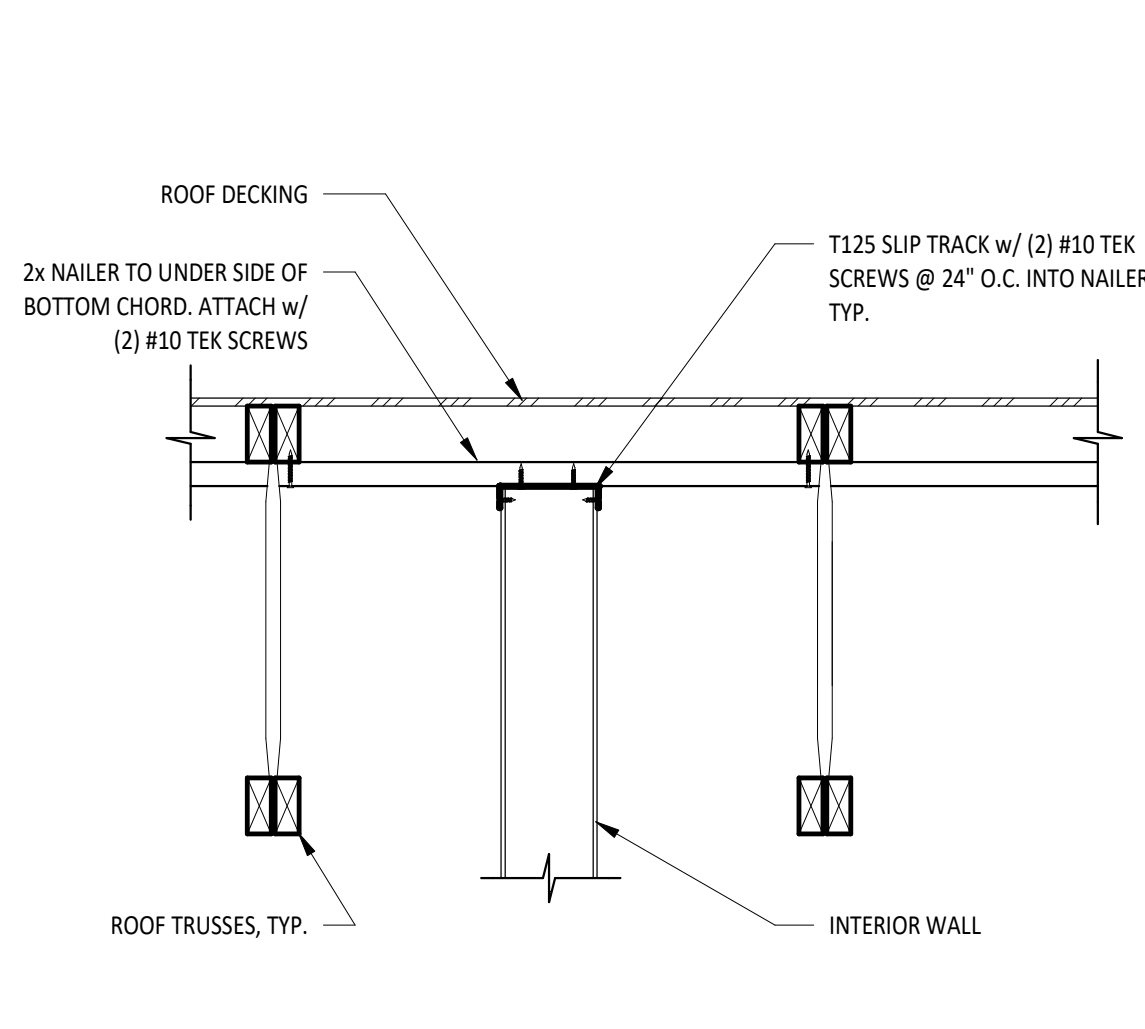
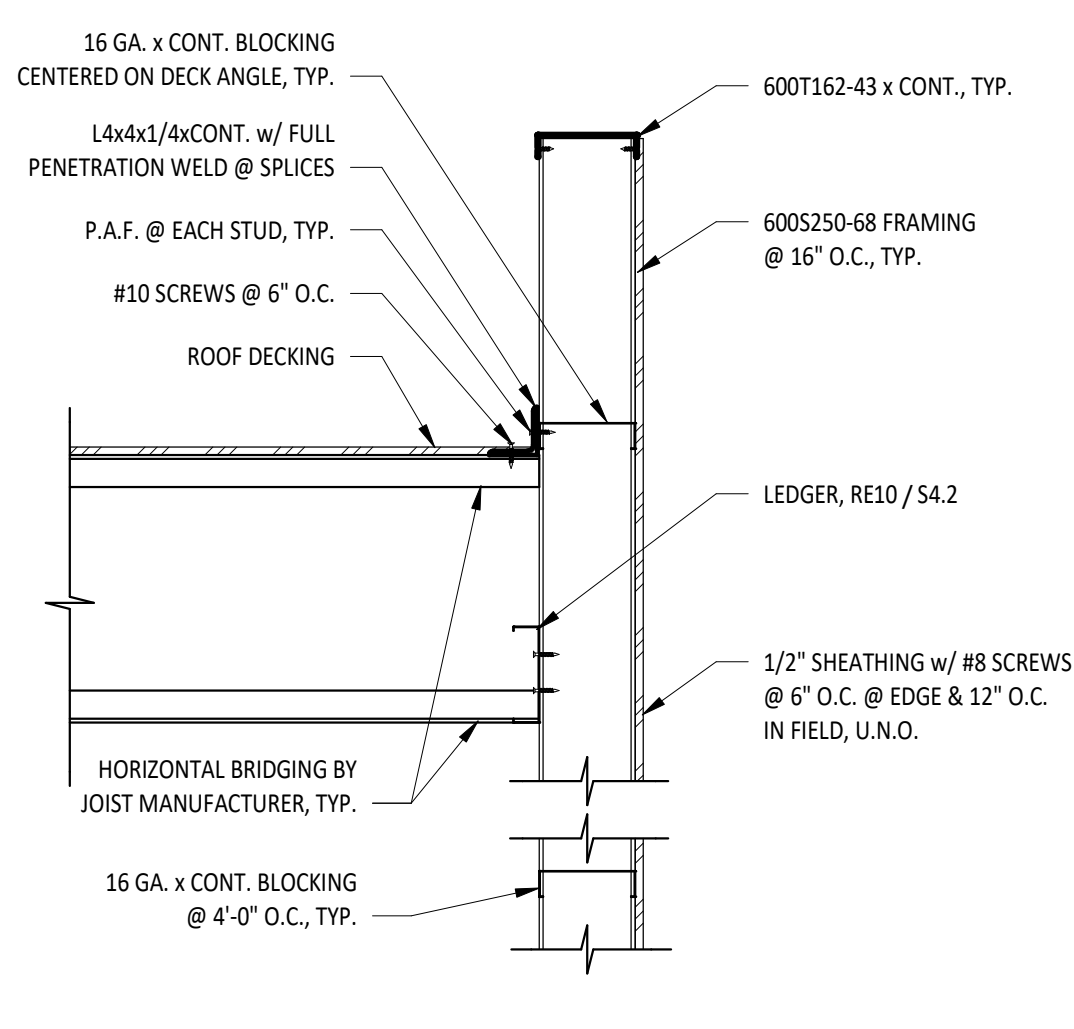
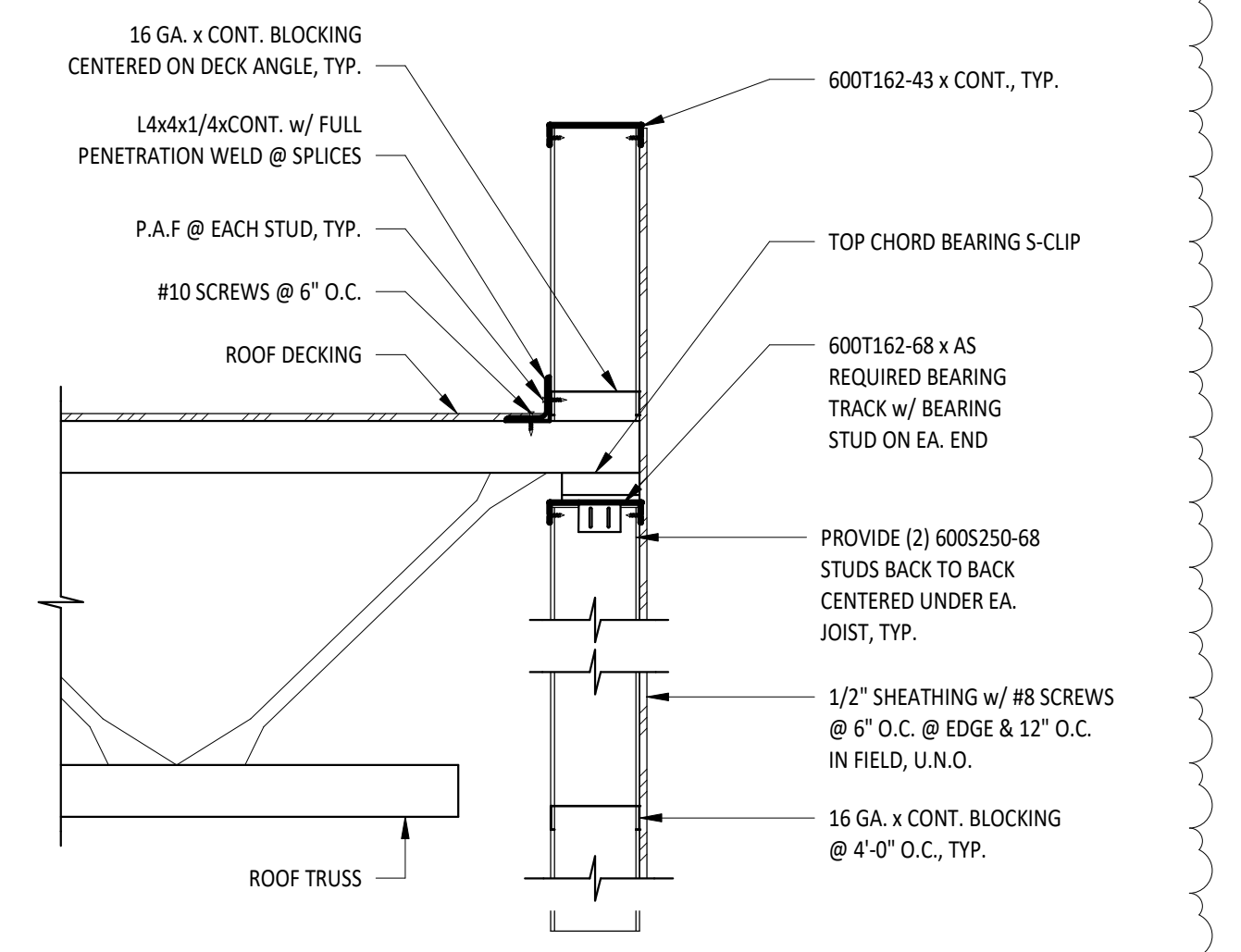
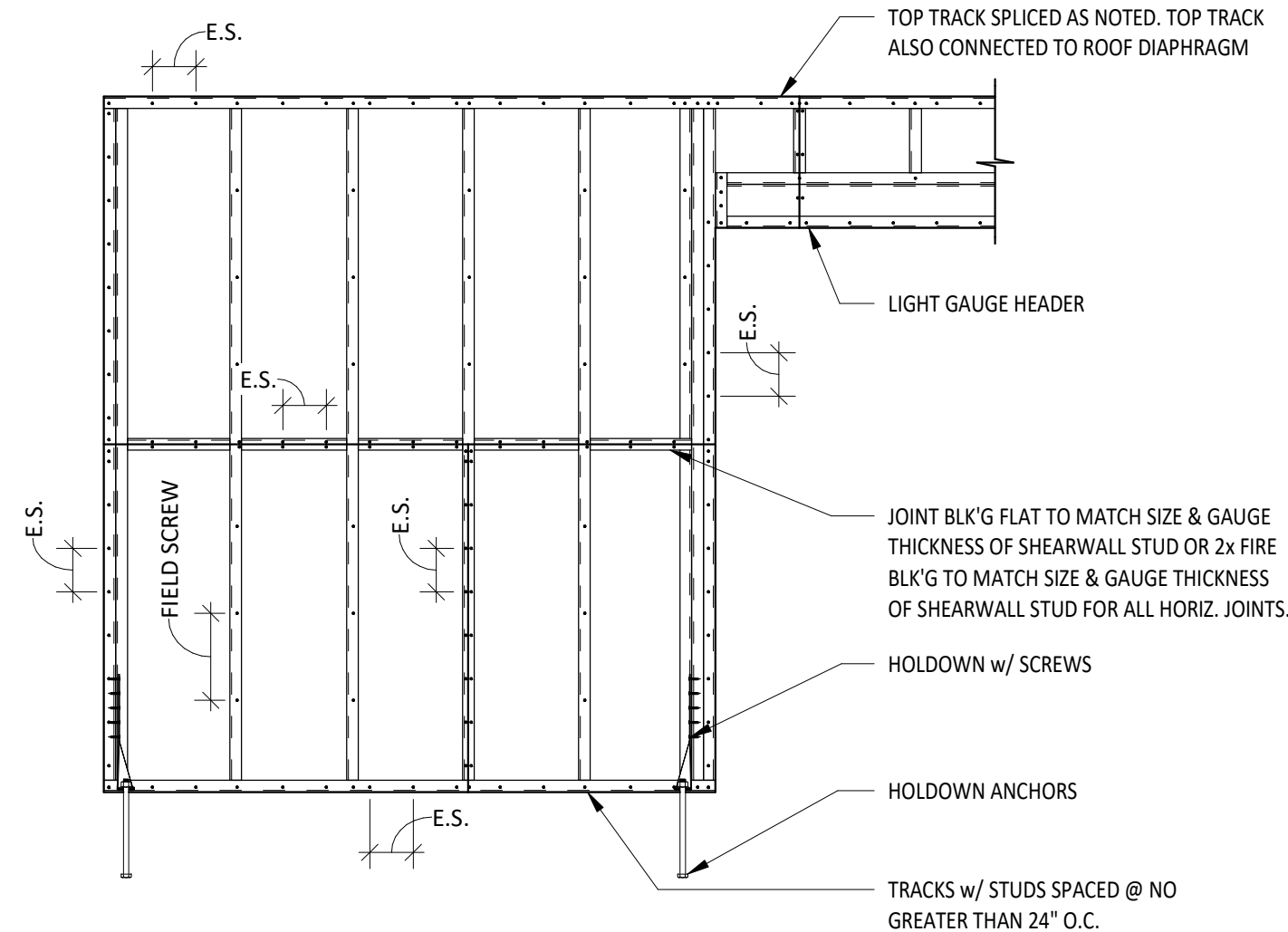
18 BEAM - BEAM BEARING CONNECTION
1 1/2" = 1'-0"



19 STEEL PLATE DETAIL
1 1/2" = 1'-0"

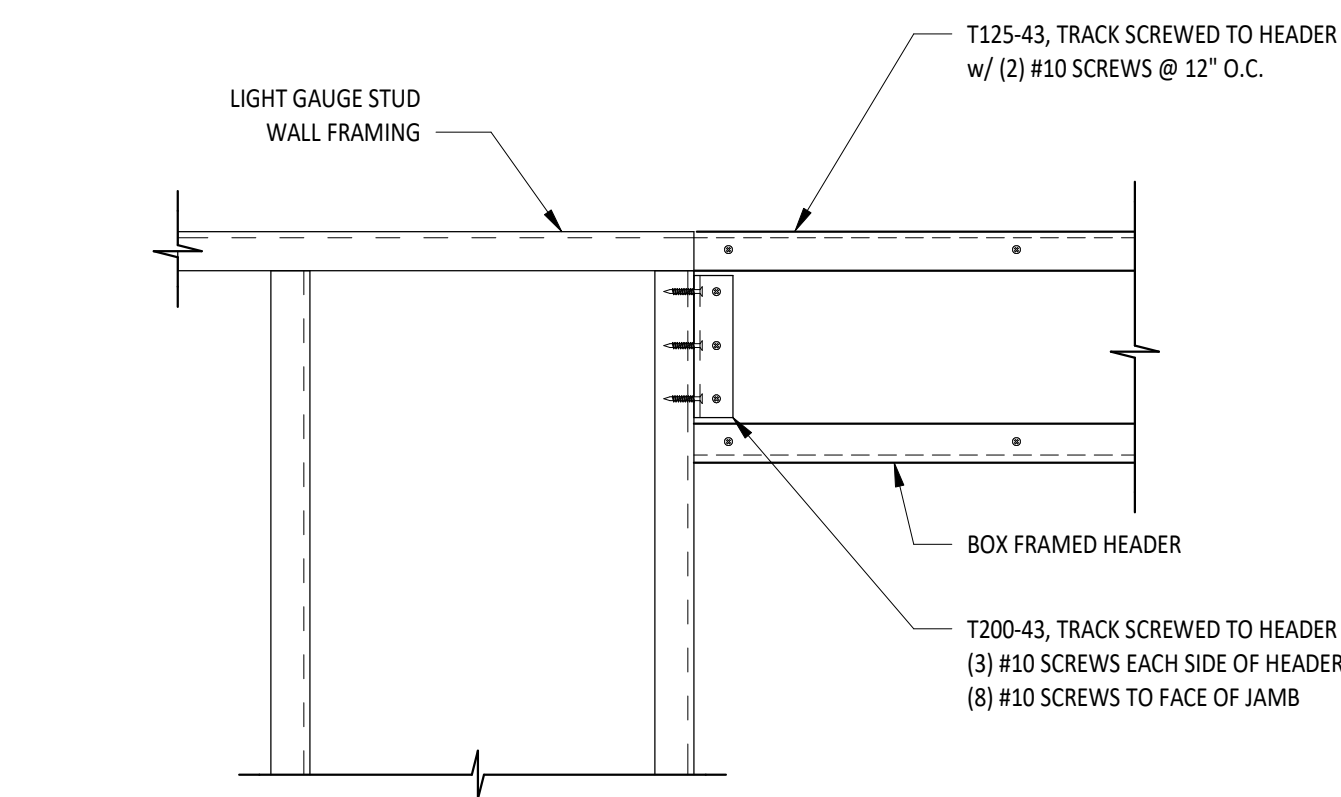


20 ROOF FRAMING CONNECTION
1 1/2" = 1'-0"

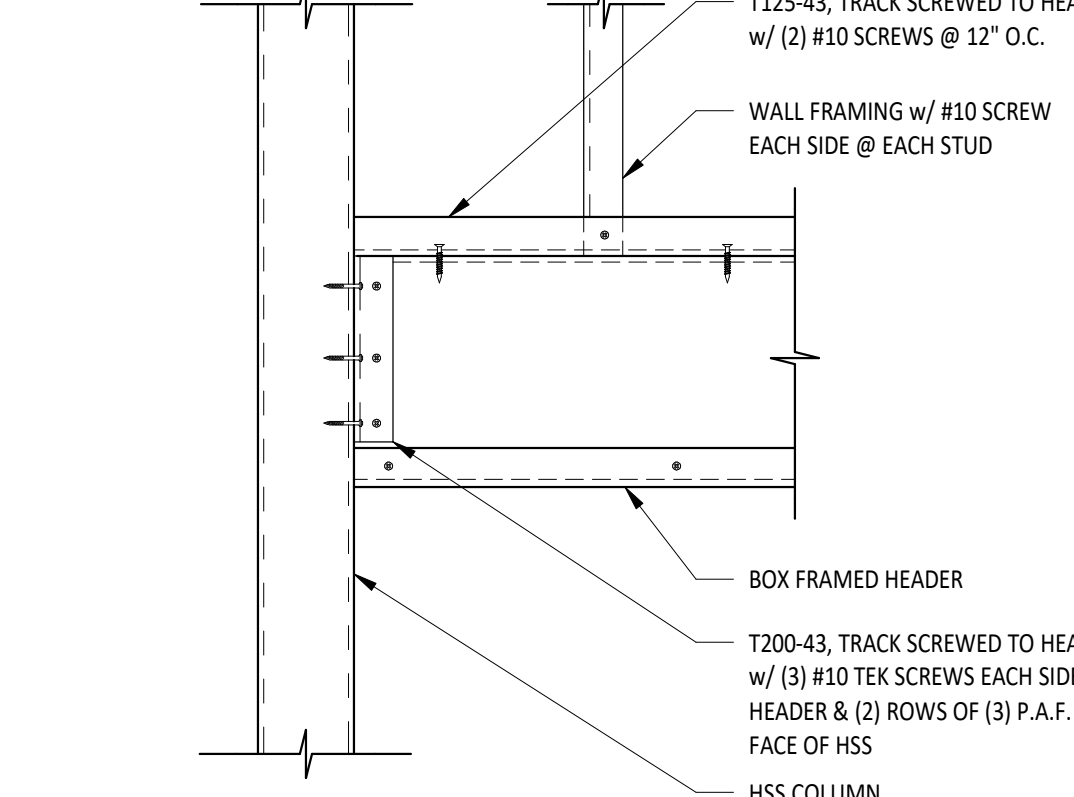


- NOTES:**
- WHERE PLYWOOD PANELS ARE APPLIED ON BOTH FACES OF A WALL, PLYWOOD PANEL JOINS SHALL OCCUR AT FRAMING, INCLUDING BLOCKING, AND FASTENERS ON EA. SIDE OF THE EDGE SHALL BE STAGGERED.
 - THE MINIMUM EDGE DISTANCE FOR FASTENERS IN THE RECEIVING MEMBERS AND THE PLYWOOD SHALL BE 3/8".
 - THE HOLDOWN ANCHOR IS IN ADDITION TO THE SILL ANCHOR BOLTS.
 - NO PANEL WIDTH LESS THAN 12" SHALL BE USED.
 - PLYWOOD MAY BE INSTALLED VERT. OR HORIZ.
 - SHEAR WALLS MORE THAN ONE VERT. PANEL IN HEIGHT SHALL HAVE EITHER VERT. OR HORIZ. STAGGERED SPICED JOINTS AT CONT. HORIZ. JOINTS THE BLOCKING SHALL BE A MIN. THICKNESS OF 33 MIL. w/ A MIN. WIDTH OF 1 1/2" AND SHALL BE EITHER INSTALLED ON TOP OF OR BELOW SHEATHING.
 - SHEARWALL SHEATHING AND FASTENERS PATTERN TO BE CONTINUOUS ABOVE AND BELOW OPENING.
 - GRADE EXPOSURE 1CDX (32/16).
 - ORIENTED STRAND BOARDS (OSB) OF THE SAME EQUIVALENCE MAY BE SUBSTITUTED.
 - END STUDS SHALL BE FULL HEIGHT.
 - WHERE STUD MUST BE CUT DUE TO THE PLACEMENT OF ANCHOR BOLTS OR OTHER PRODUCTS, AN ADDITIONAL STUD SHALL BE INSTALLED ALONG SIDE.
 - ALL PANEL EDGES SHALL BE BLOCKED WITH A MIN. THICKNESS OF 33 MIL w/ A MIN. WIDTH OF 1 1/2" AND SHALL BE EITHER INSTALLED ON TOP OF OR BELOW SHEATHING.
 - ALL SHEAR WALL SHEATHING SHALL BE 7/16" THICK A.P.A. RATED SHEATHING, EXPOSURE 1.
 - SHEATHING SHALL BE APPLIED WITH EDGES 1/8" APART AT SIDE JOINTS AND 1/8" APART AT END JOINTS.
 - CONTRACTOR TO VERIFY THE SHEAR ANCHORS ARE A MINIMUM OF 5/8" DIA. SPACED @ 24" O.C. MAX. CONTACT E.O.R. IF ANCHORS DO NOT MEET THIS REQUIREMENT.

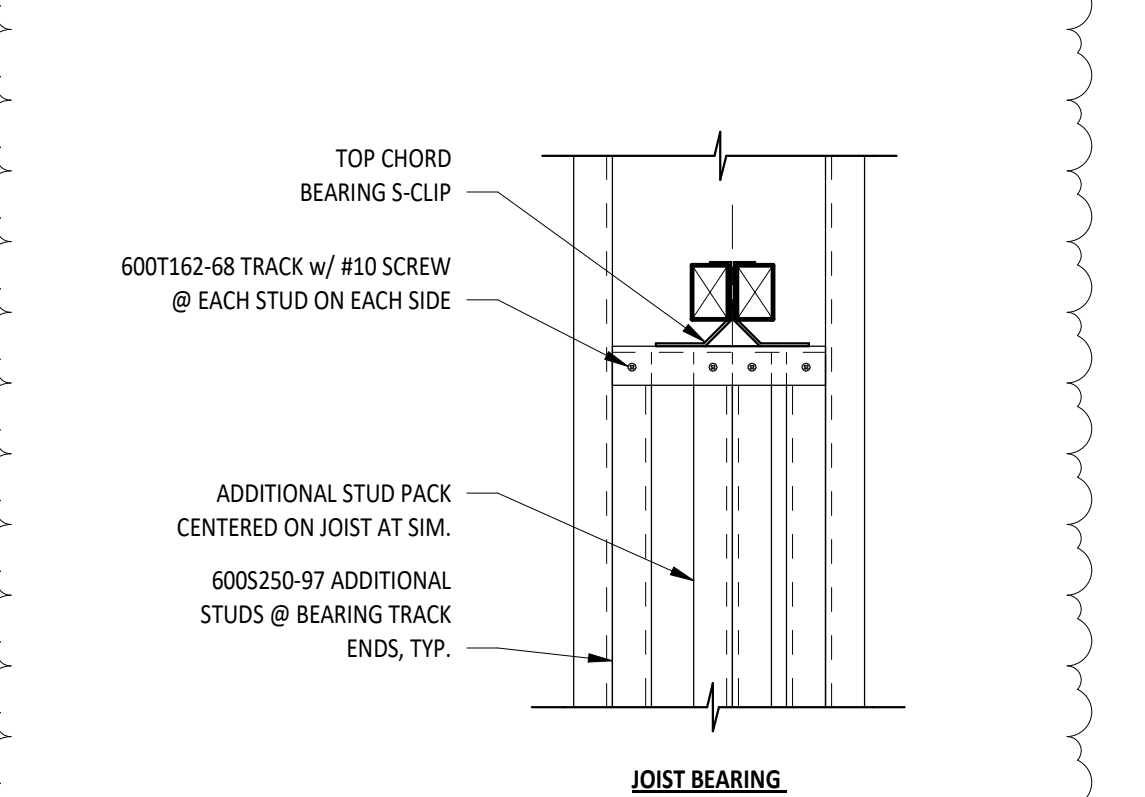
1. STRUCTURAL SHEARWALL SCHEDULE
1/2" = 1'-0"



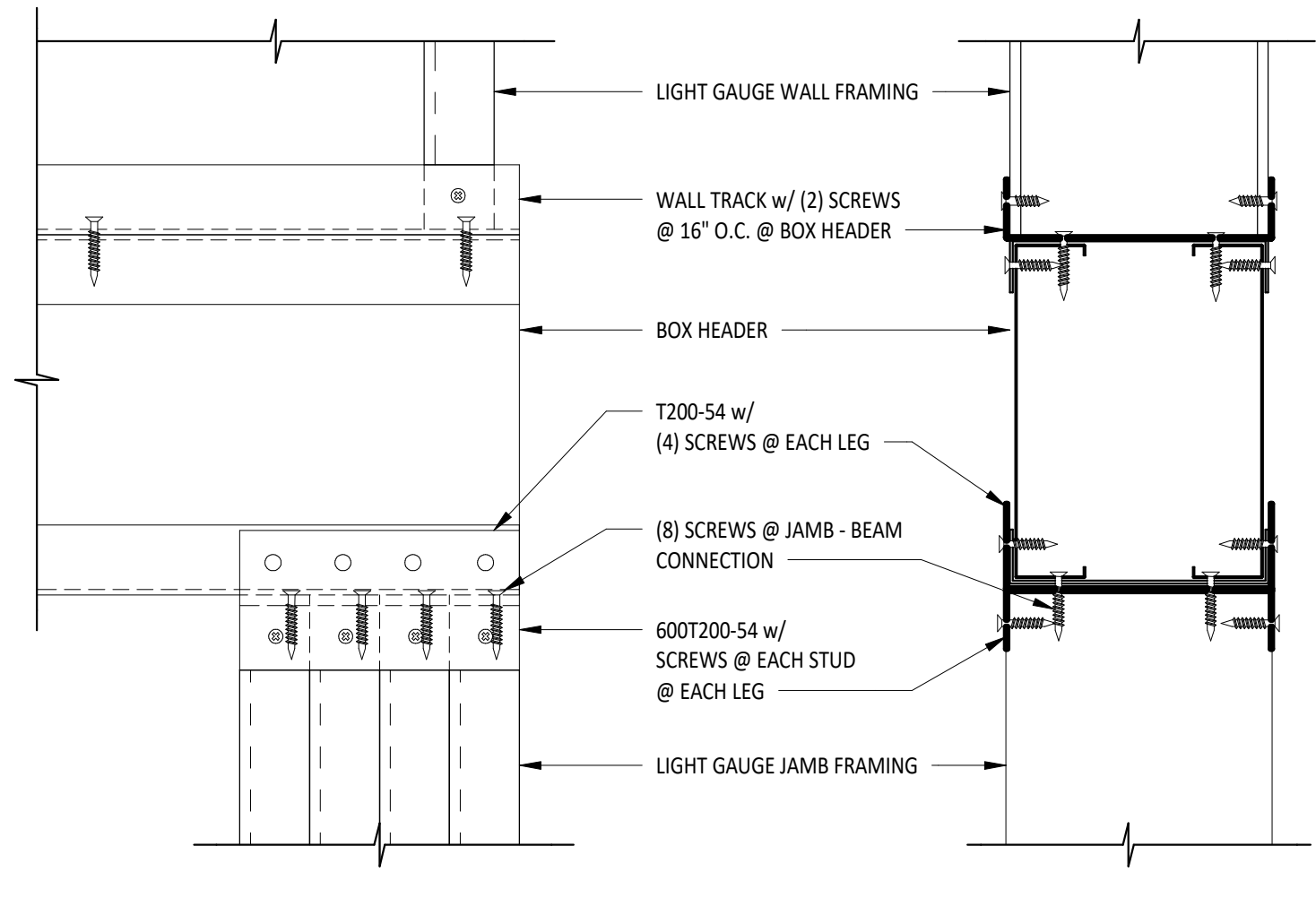
6. BOX HEADER CONNECTION @ WALL FRAMING
1 1/2" = 1'-0"



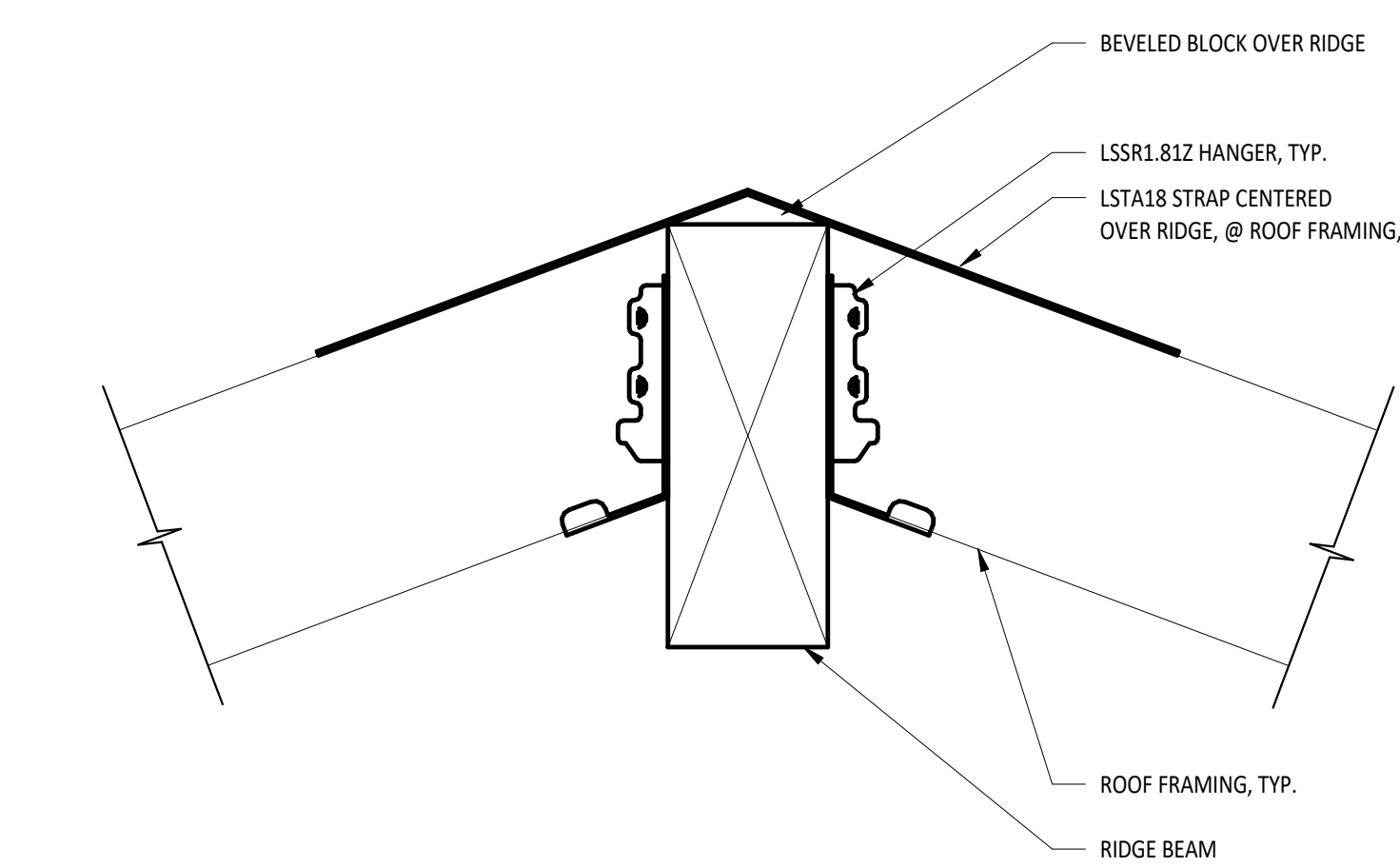
7. BOX HEADER CONNECTION @ HSS COLUMN
1 1/2" = 1'-0"



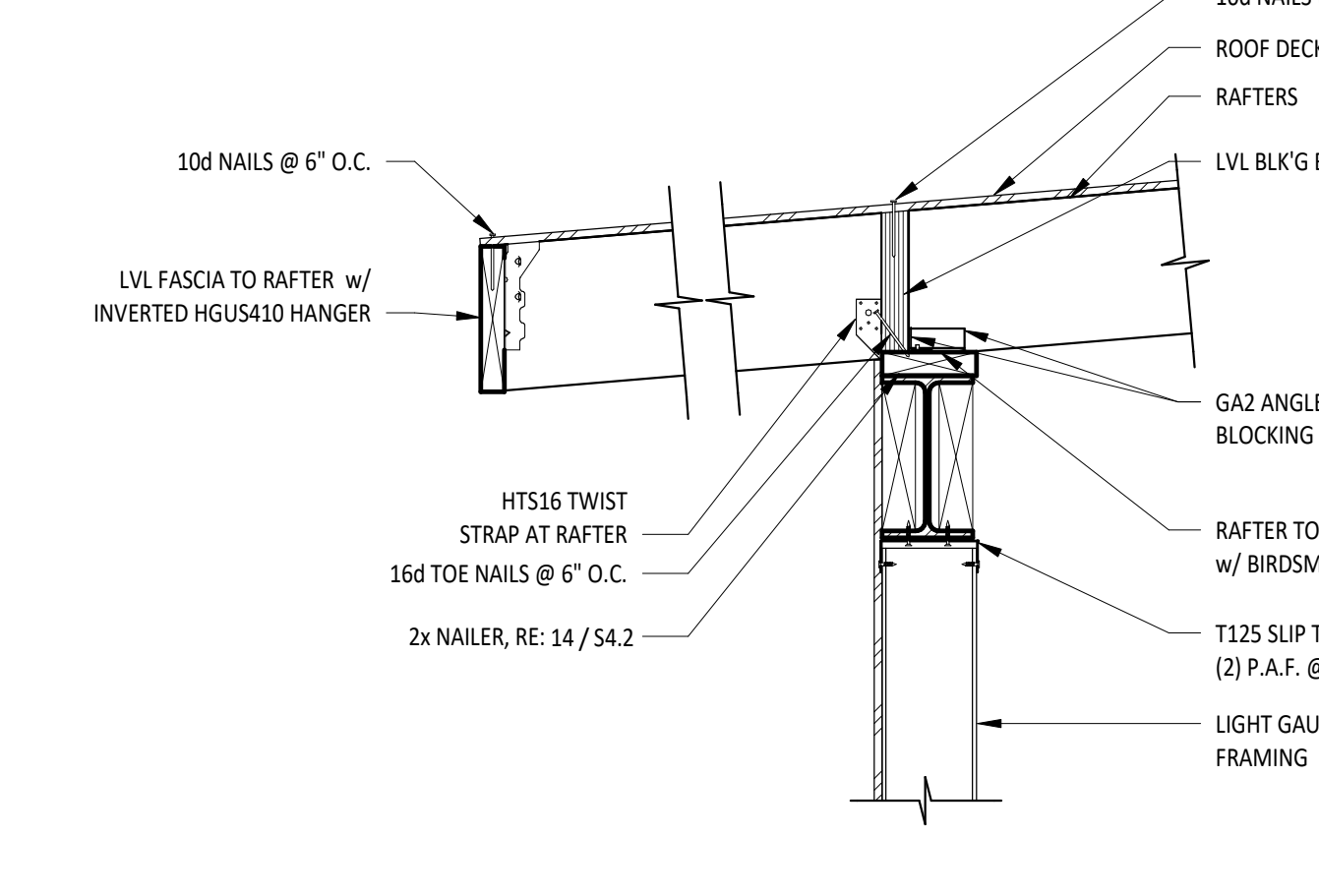
8. LIGHT GAUGE JOIST BEARING/STUD PACK ELEVATION
1 1/2" = 1'-0"



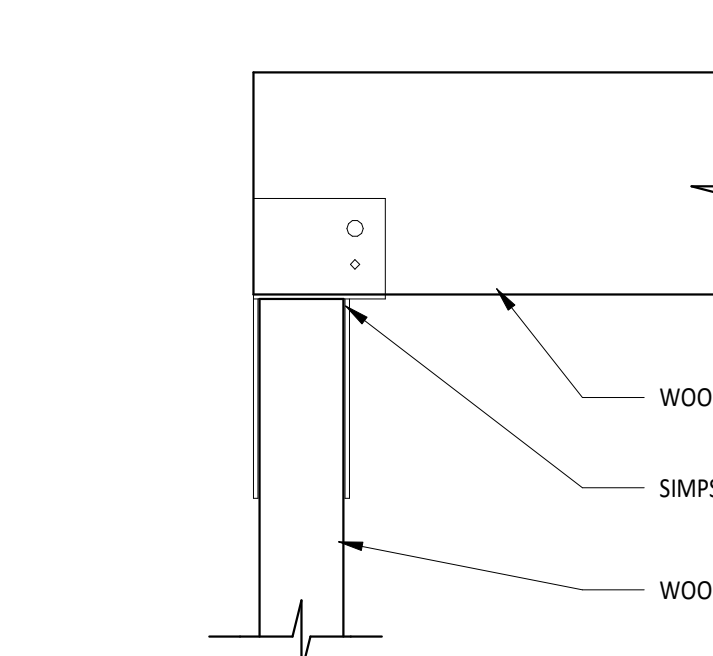
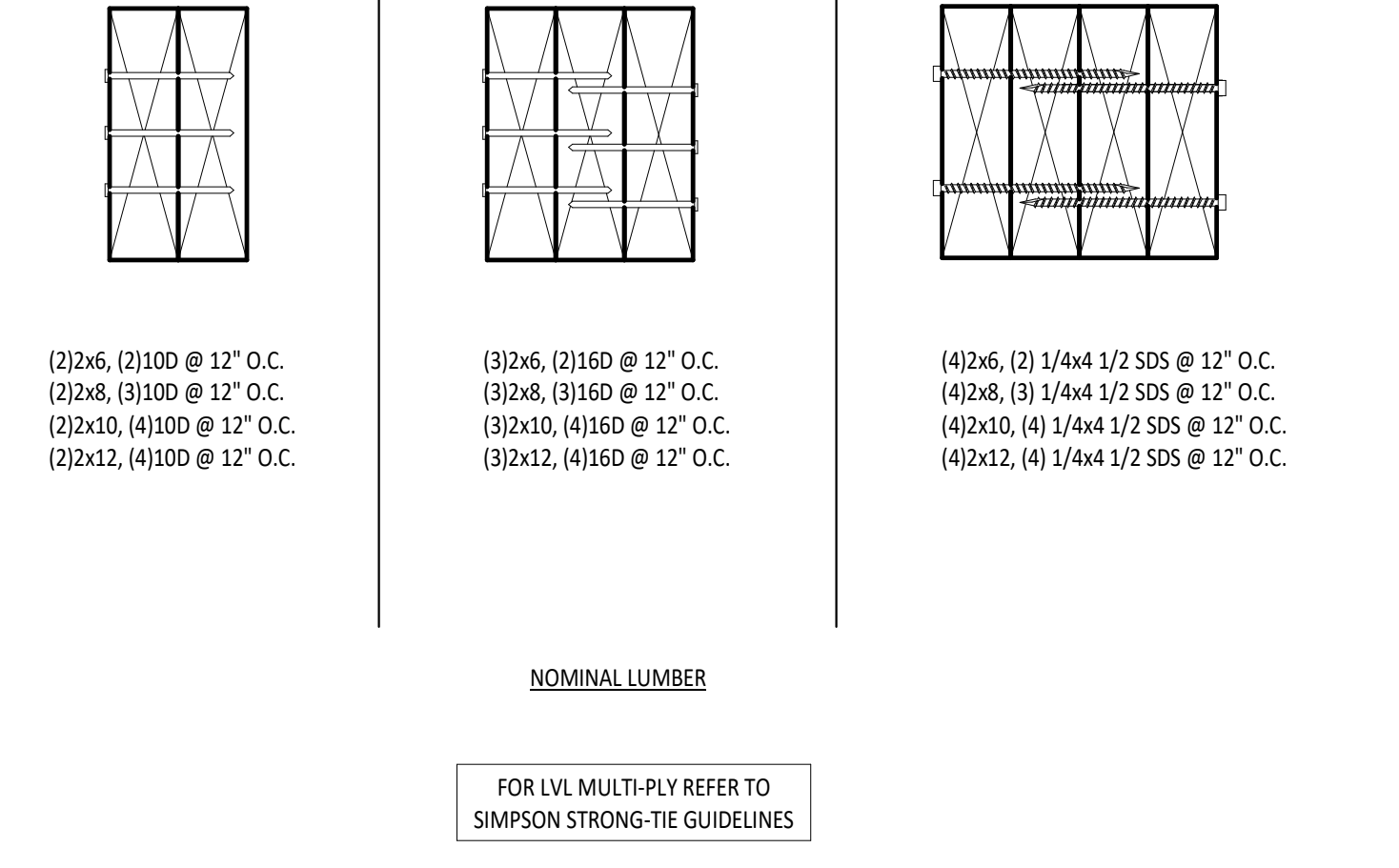
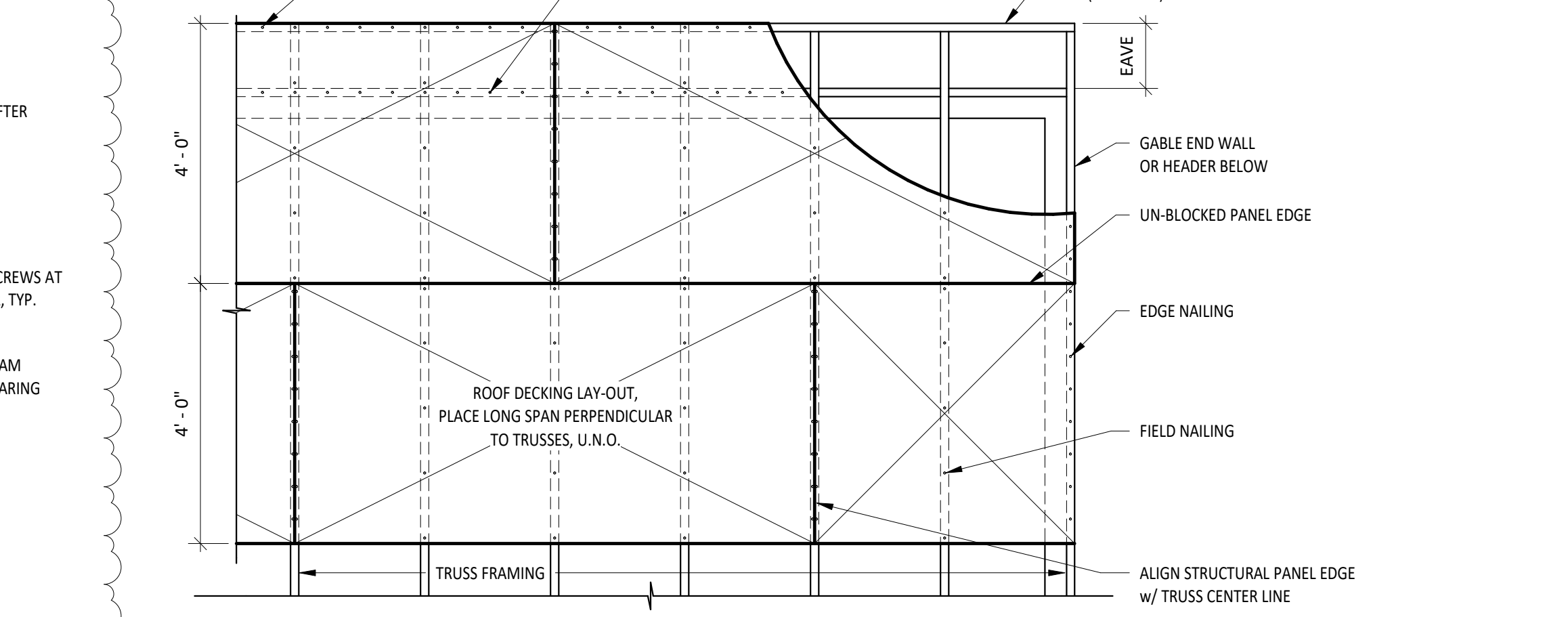
9. LIGHT GAUGE JAMB @ BOX HEADER
3" = 1'-0"



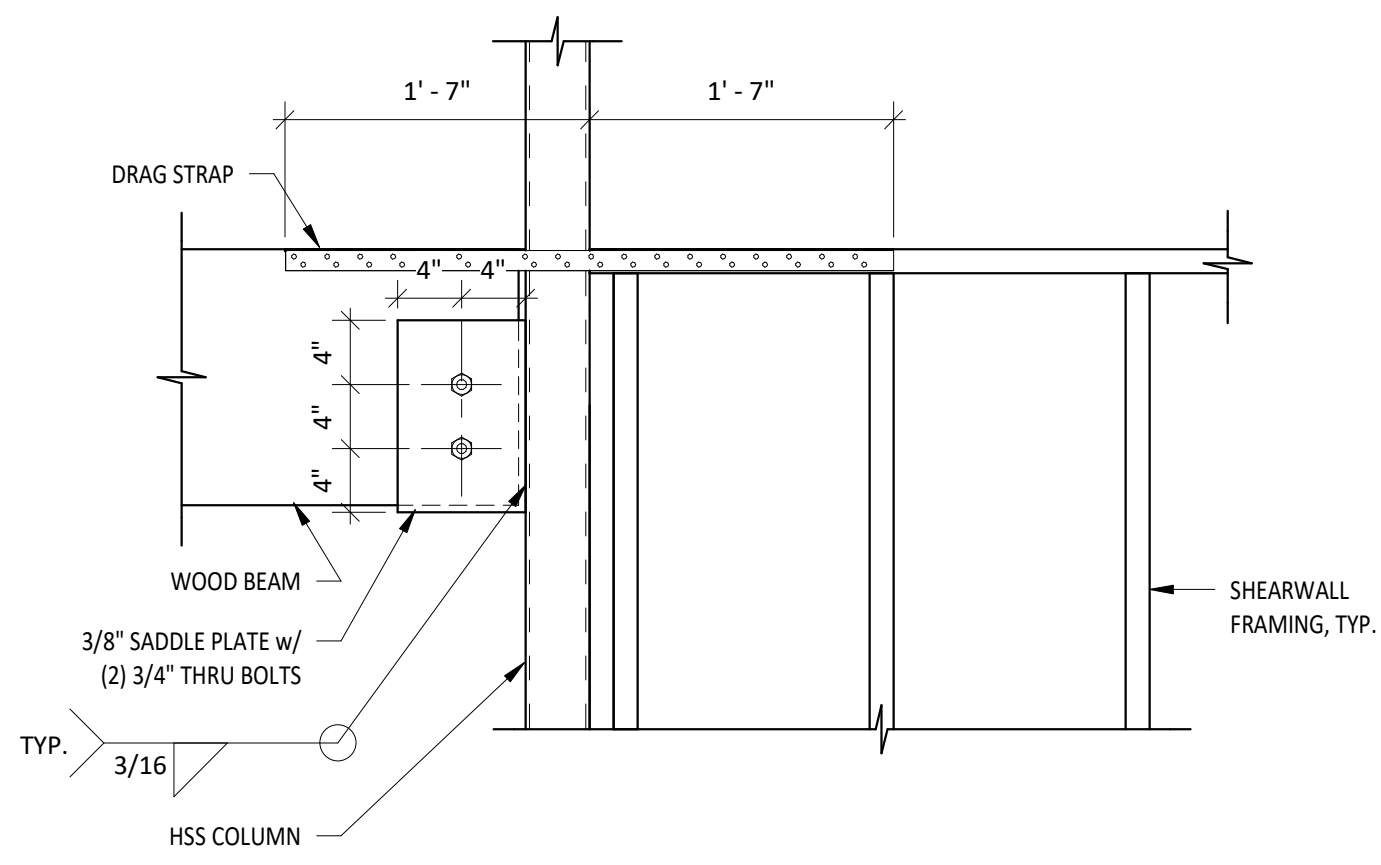
10. FRAMING CONNECTION @ ROOF
3" = 1'-0"

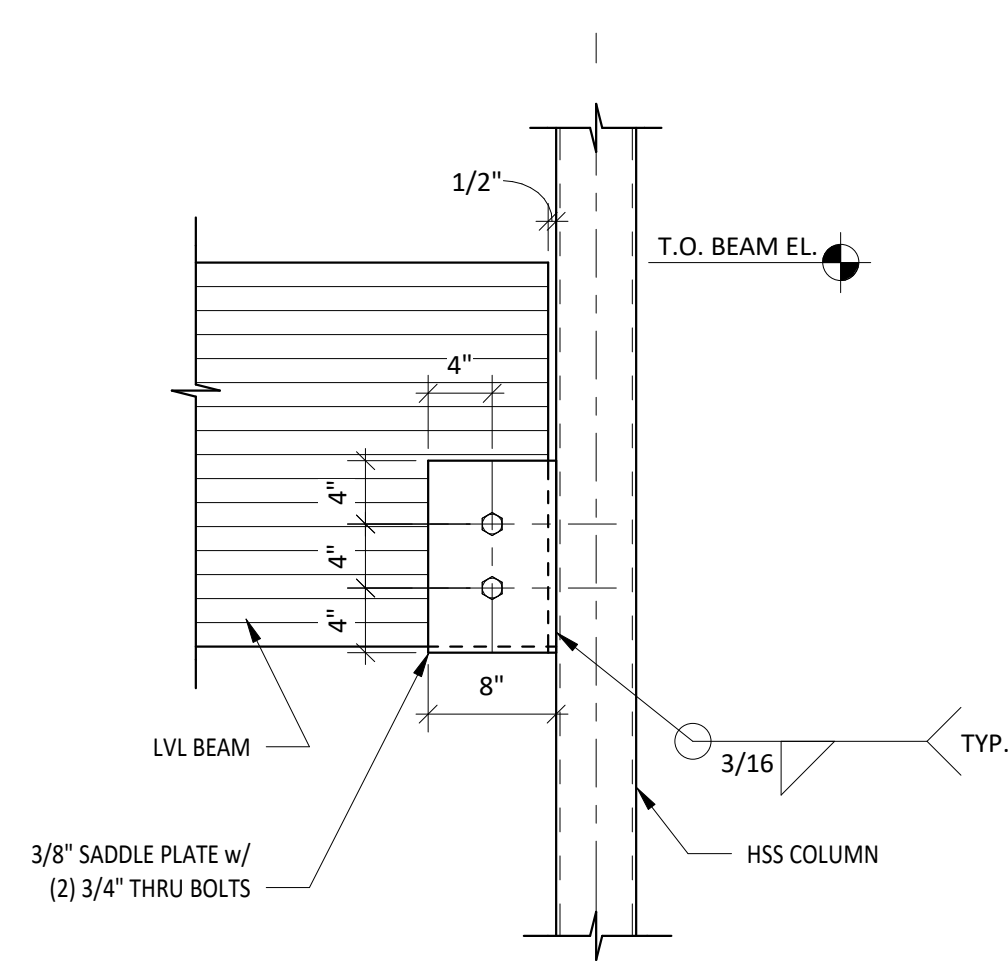


11. EAVE FRAMING
1" = 1'-0"

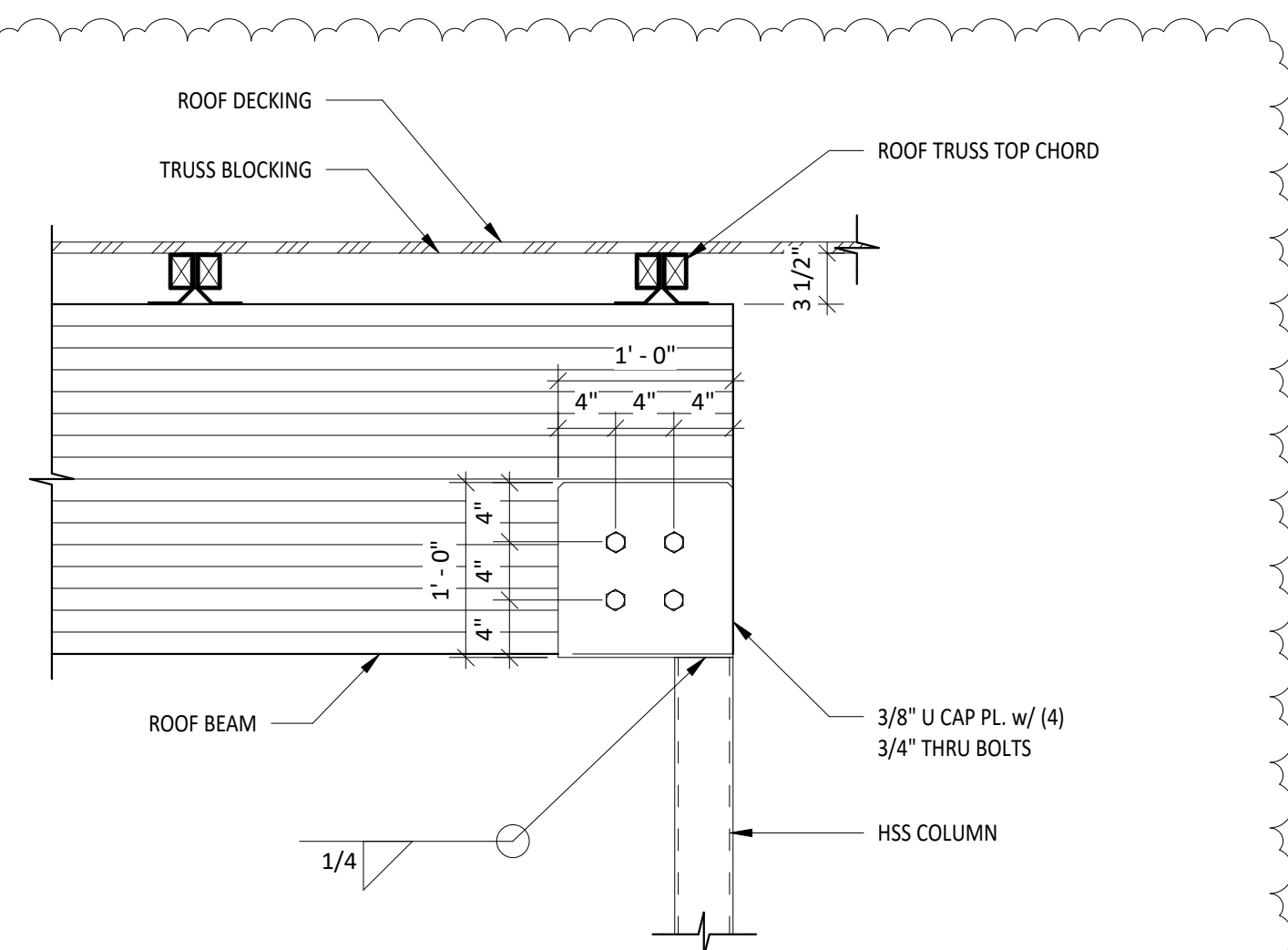


14. WOOD BEAM AT POST
1 1/2" = 1'-0"

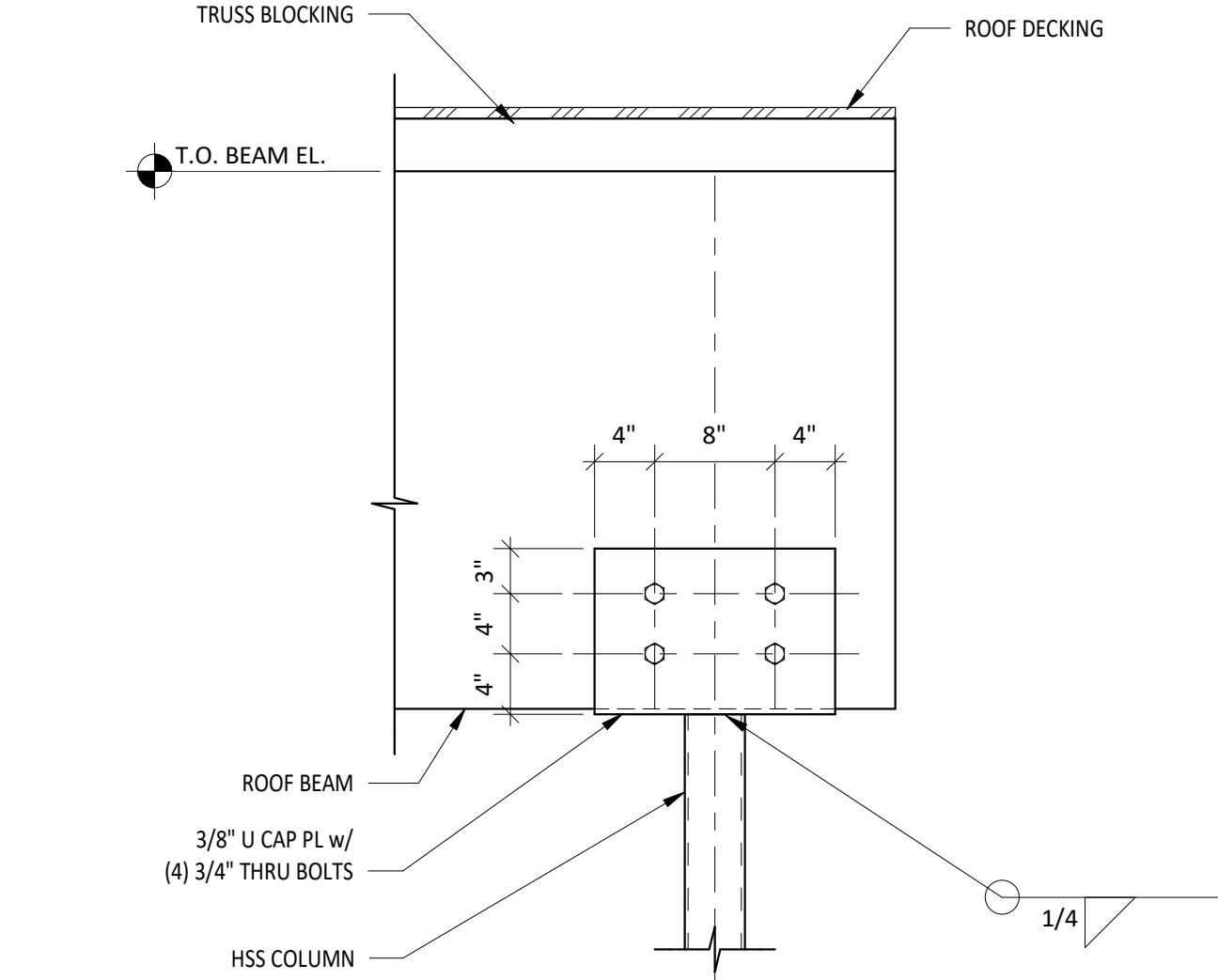




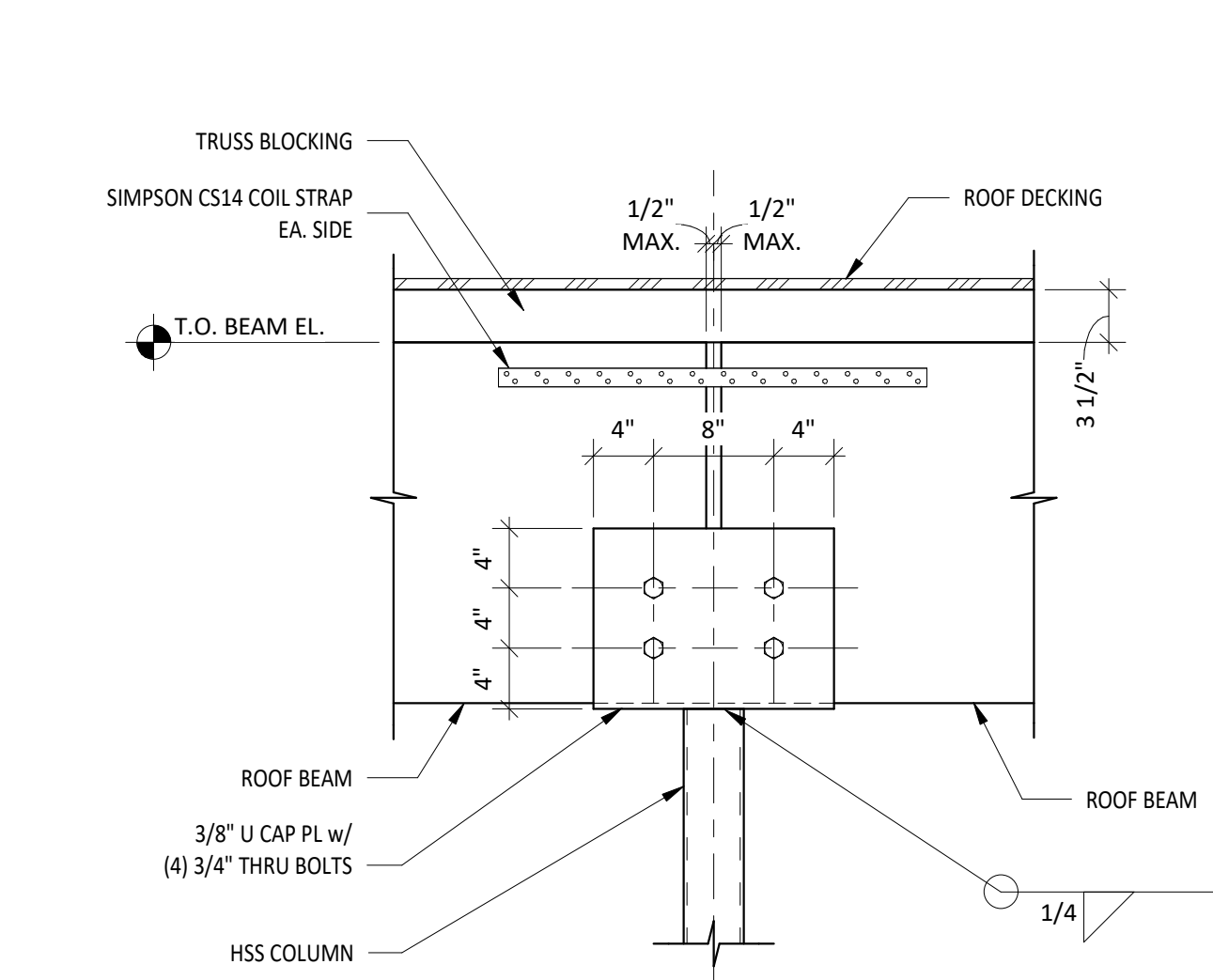
1 LVL BEAM TO HSS COLUMN CONNECTION DETAIL
1" = 1'-0"



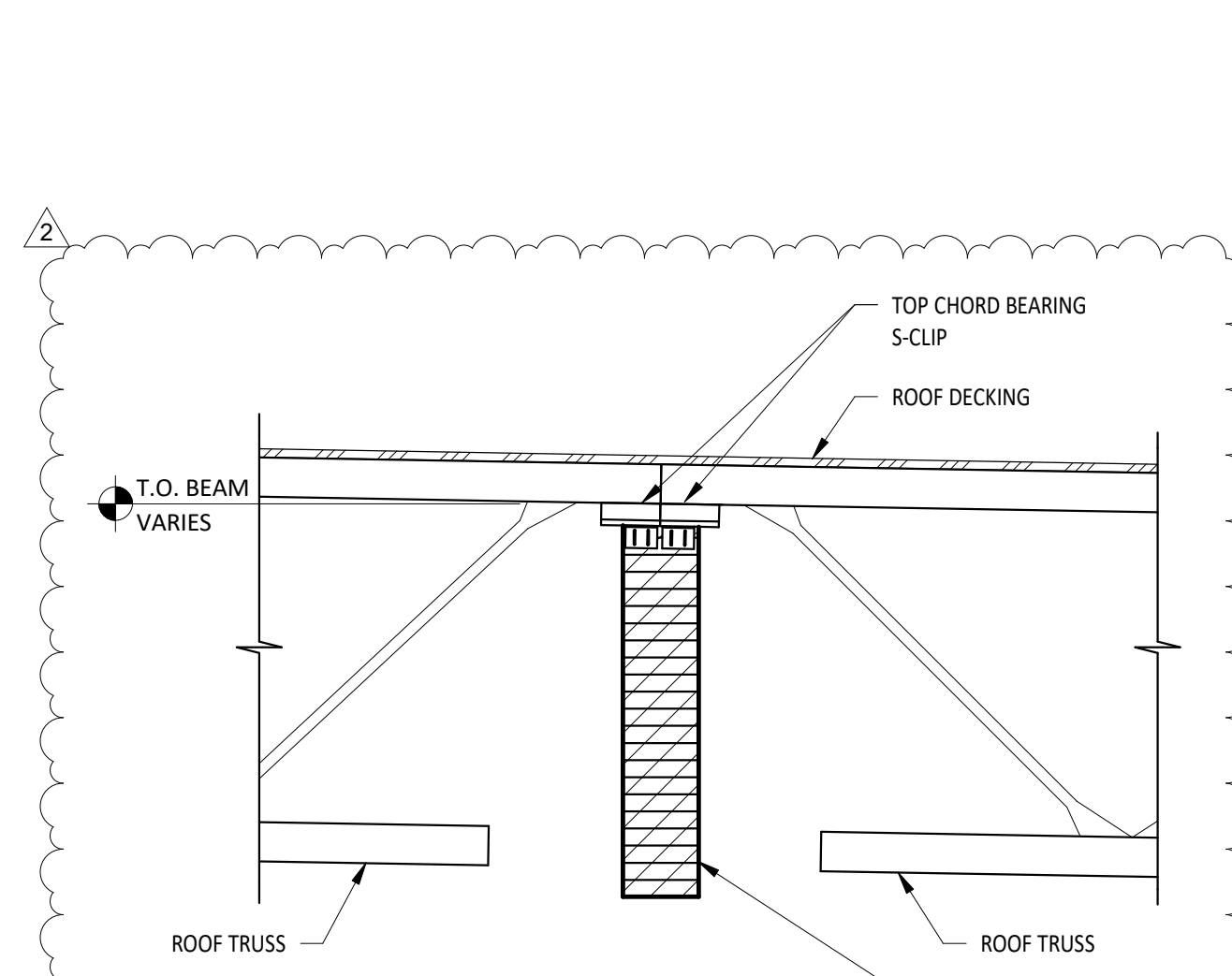
2 ROOF BEAM TO HSS COLUMN
1" = 1'-0"



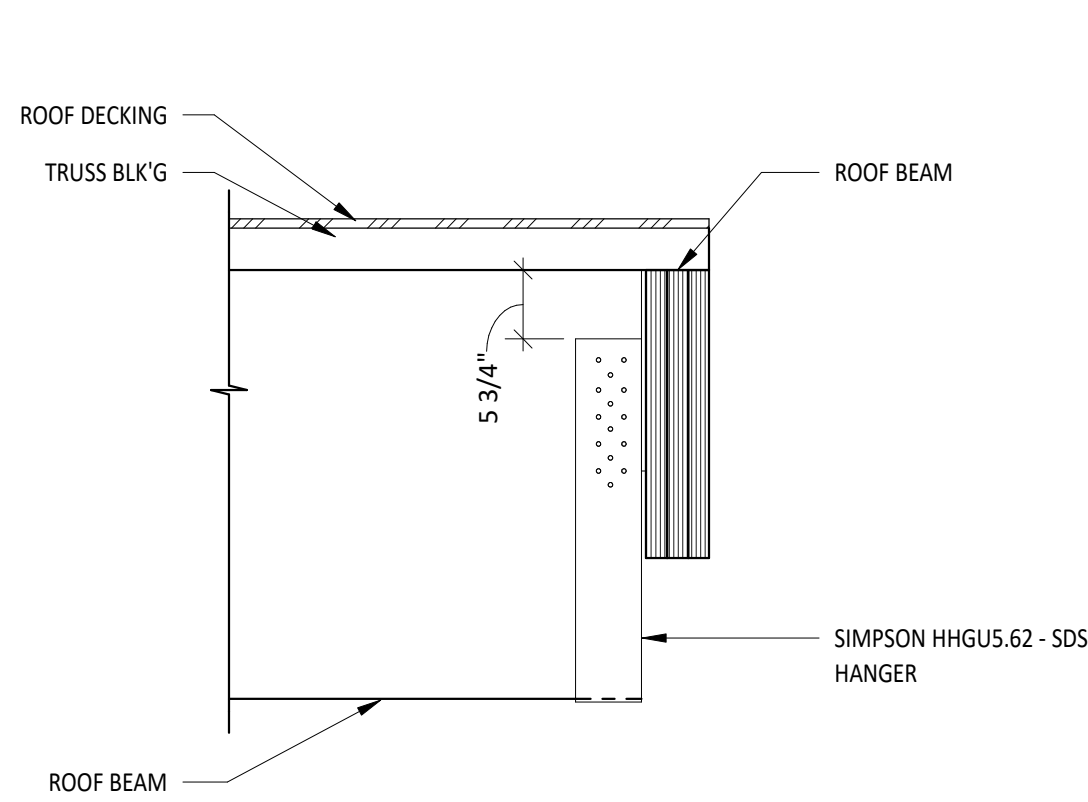
3 BEAM TO HSS COLUMN CONNECTION DETAIL
1" = 1'-0"



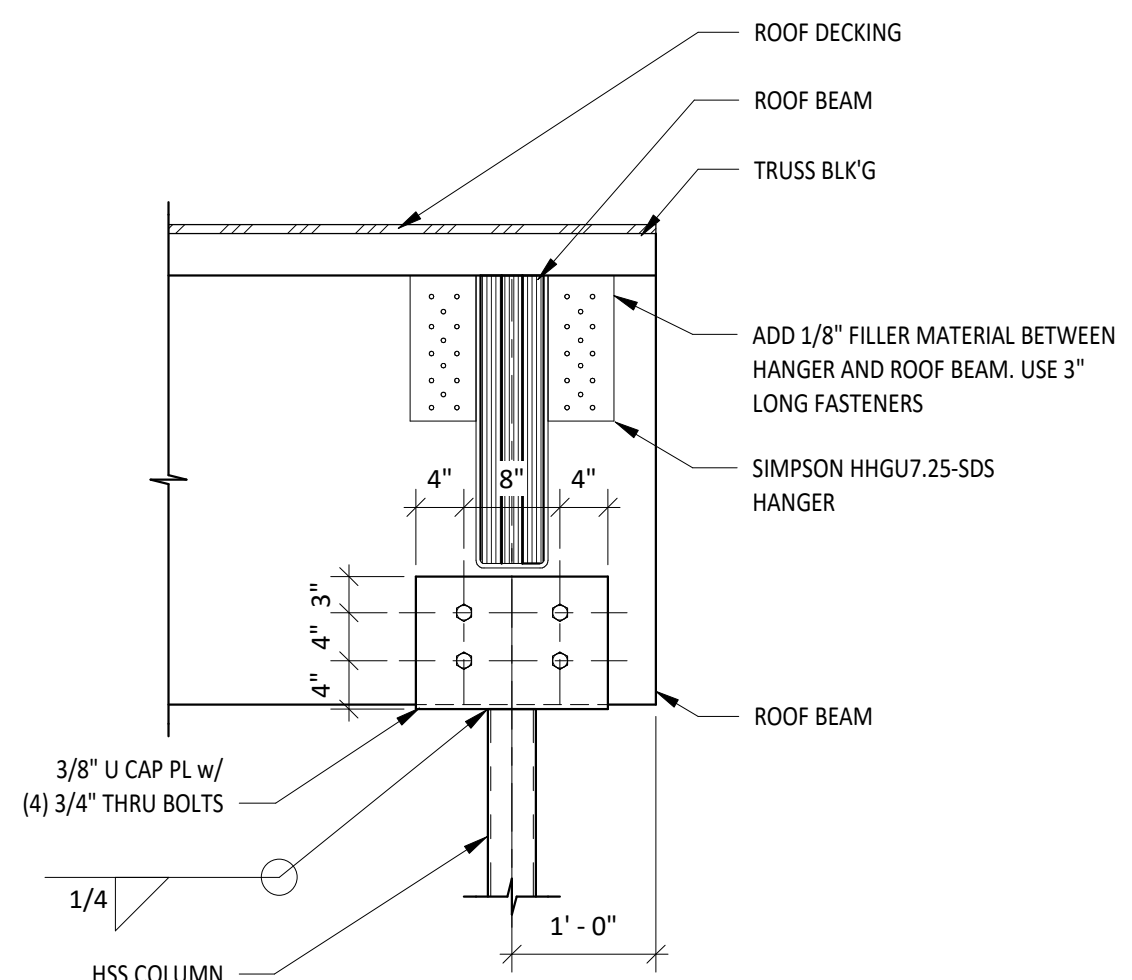
4 BEAM TO HSS COLUMN CONNECTION DETAIL
1" = 1'-0"



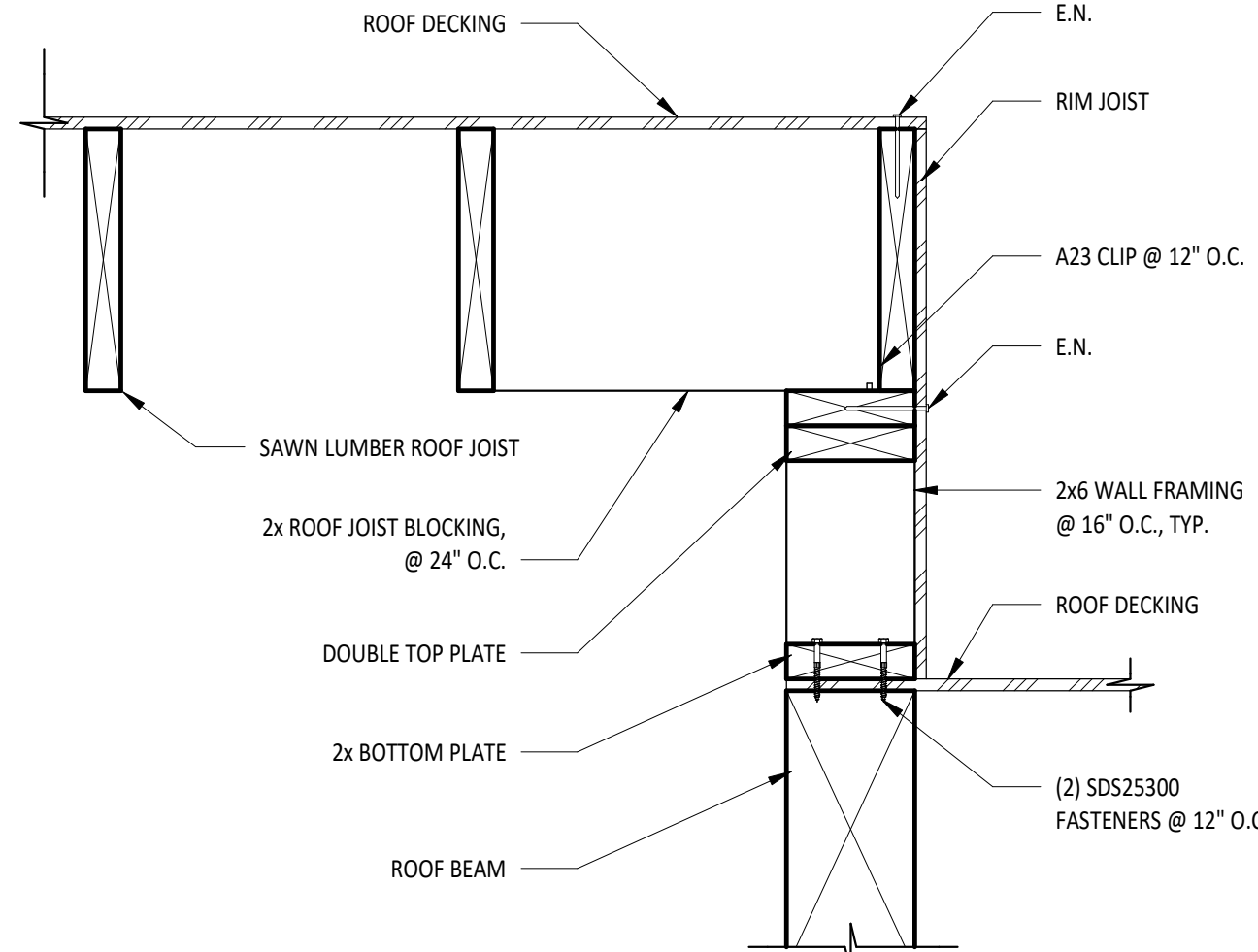
5 TRUSS BEARING @ BEAM
3/4" = 1'-0"



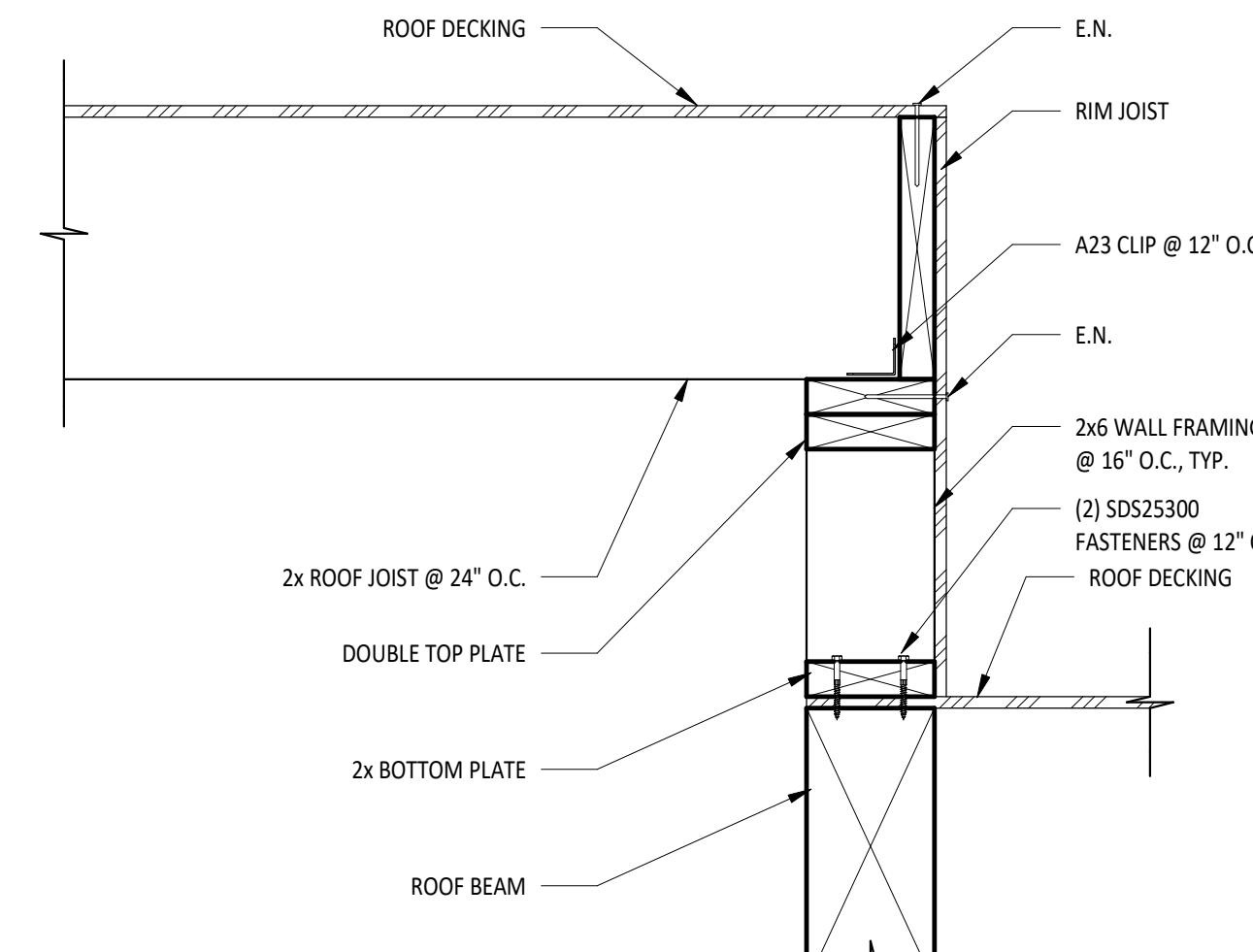
6 BEAM - BEAM CONNECTION
3/4" = 1'-0"



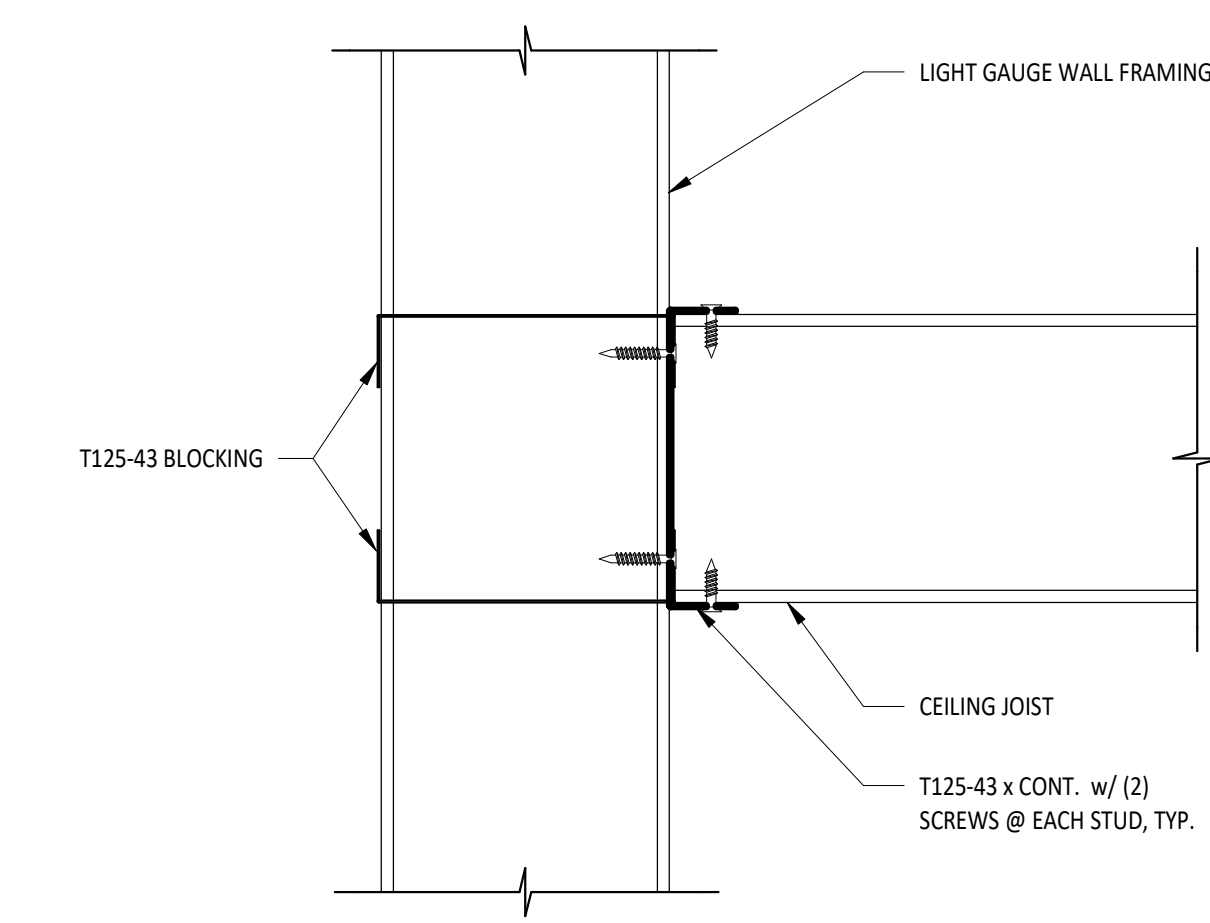
7 BEAM - BEAM CONNECTION
3/4" = 1'-0"



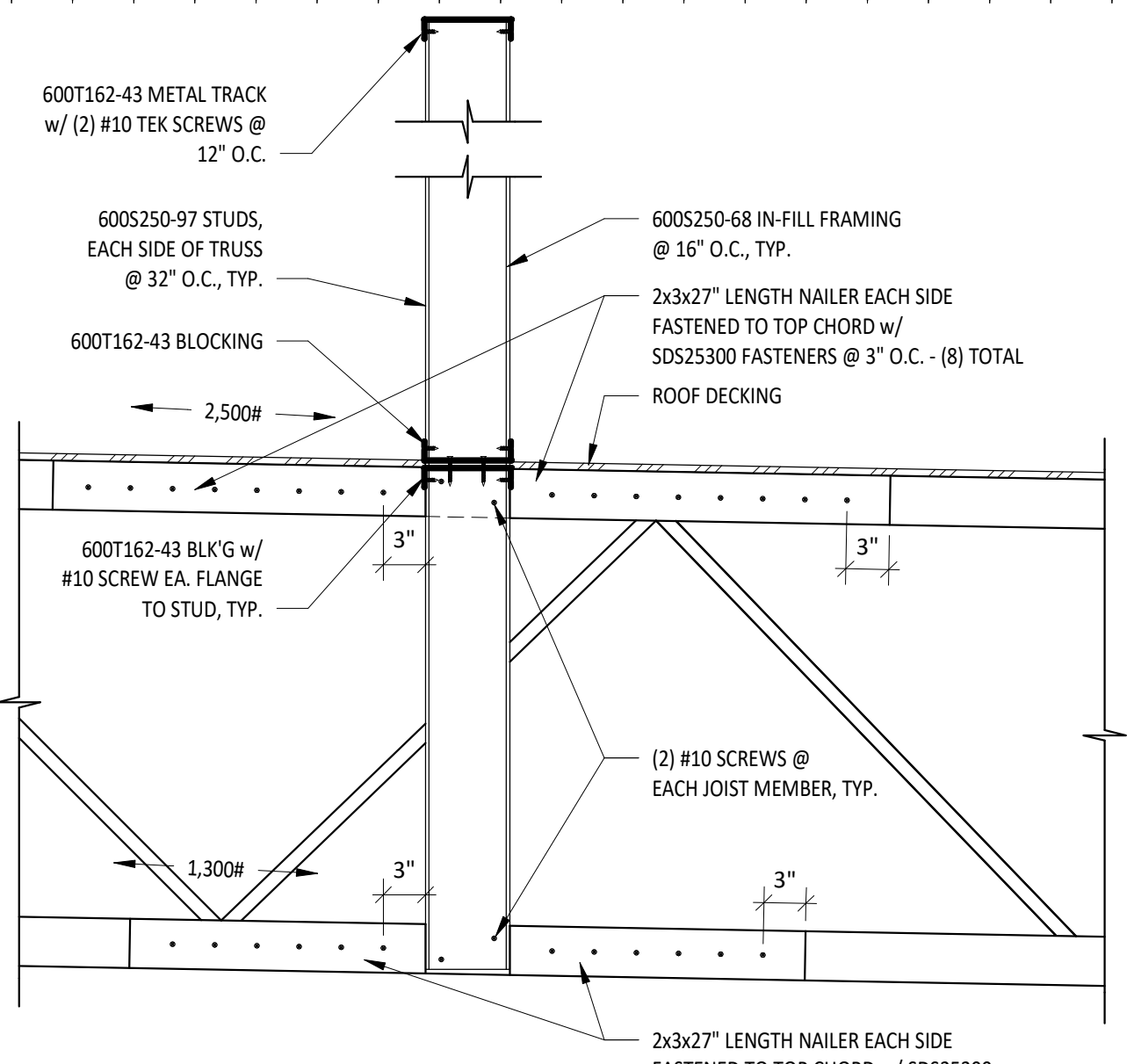
8 ROOF JOIST @ WALL PARALLEL
1 1/2" = 1'-0"



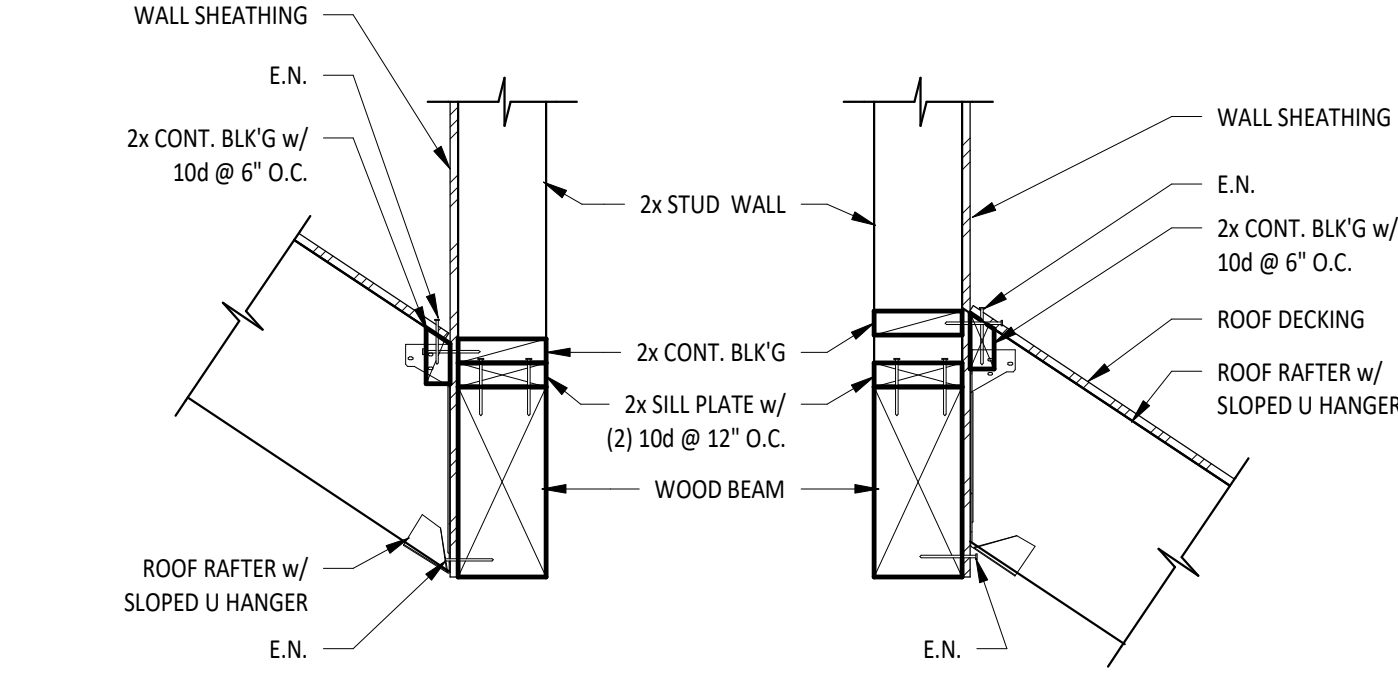
9 ROOF JOIST @ WALL PERPENDICULAR
1 1/2" = 1'-0"



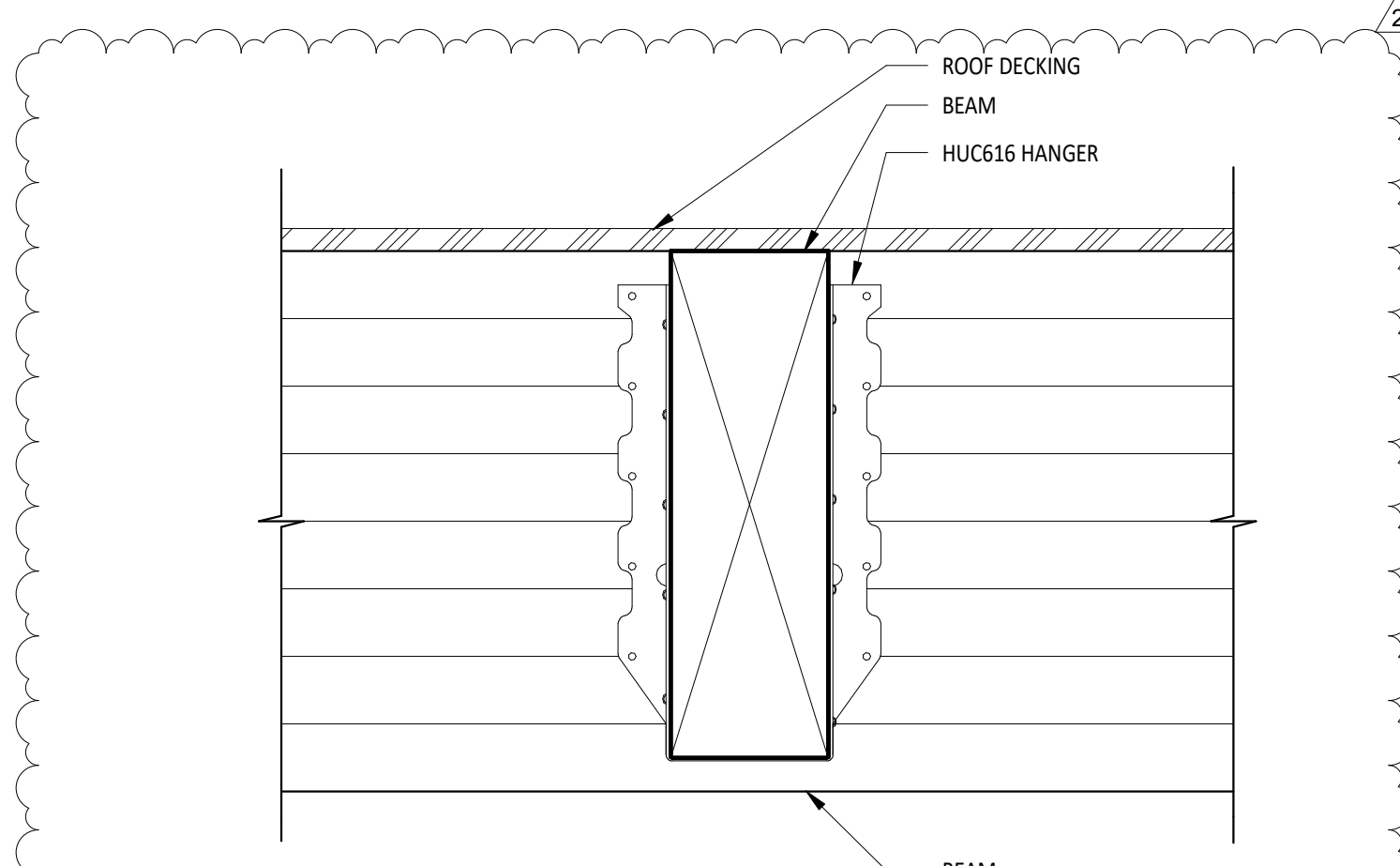
10 BLOCKING @ CEILING FRAMING
3" = 1'-0"



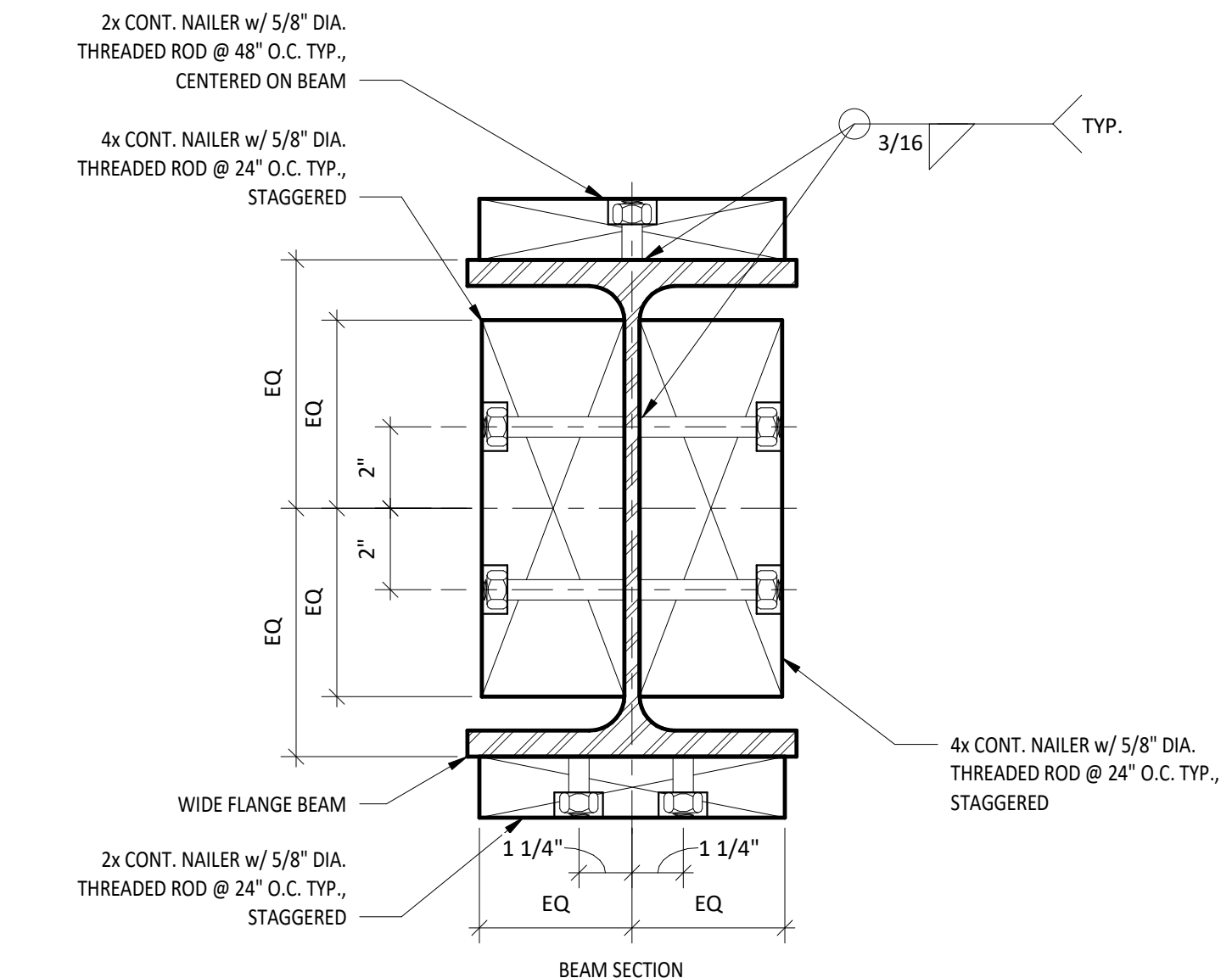
11 SCREEN WALL CONNECTION
1" = 1'-0"



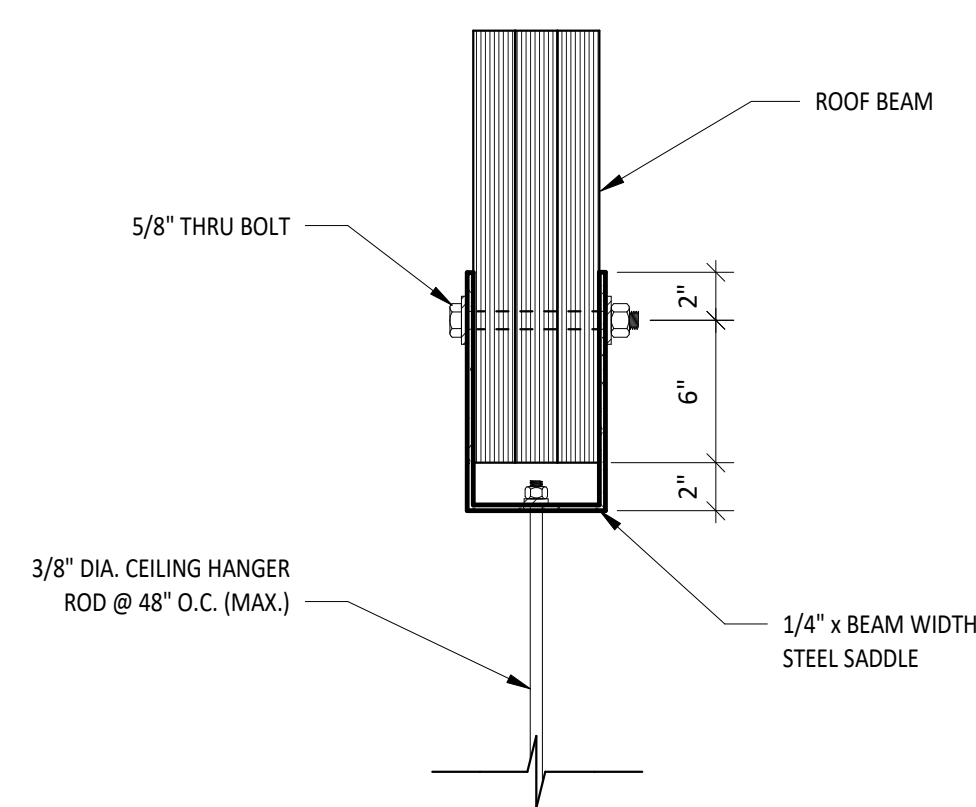
12 RAFTER TO BEAM CONNECTION
1" = 1'-0"



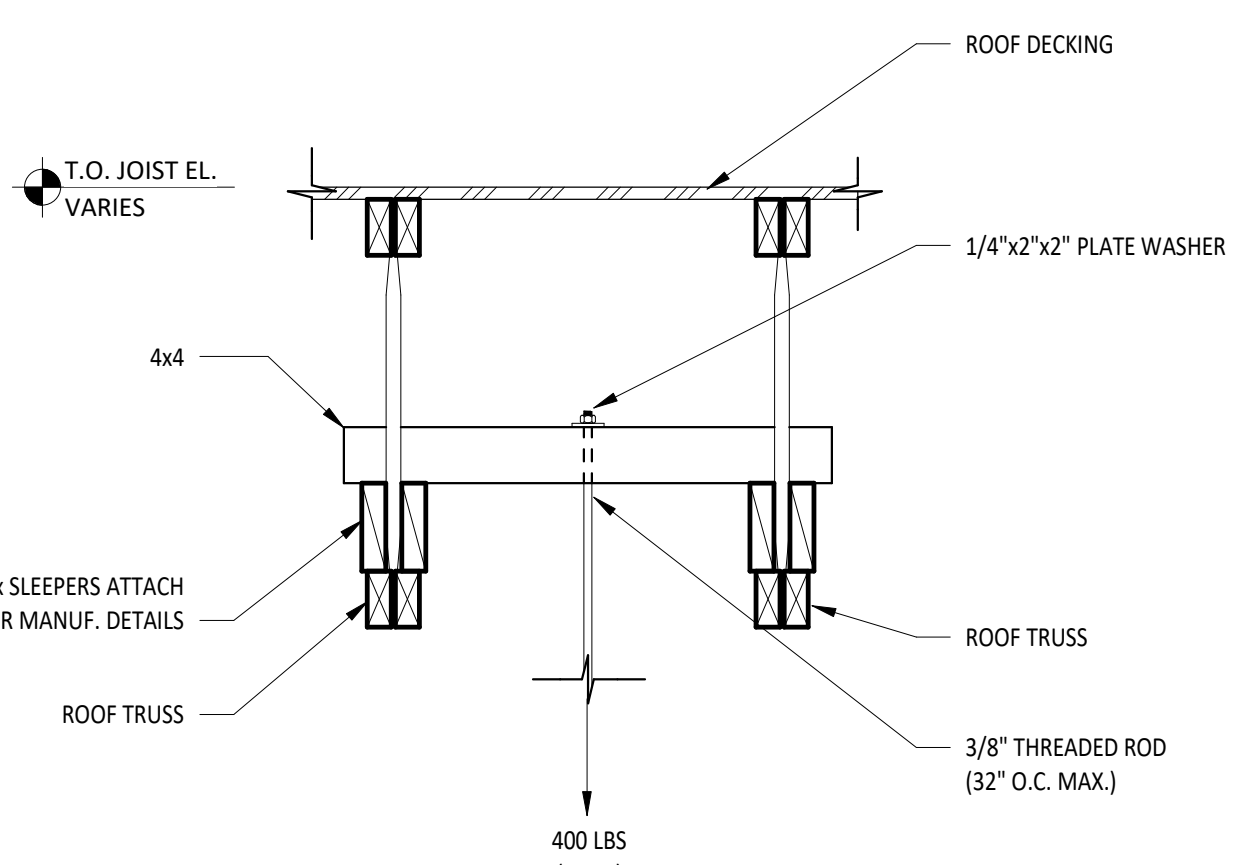
13 HANGER DETAIL
3" = 1'-0"



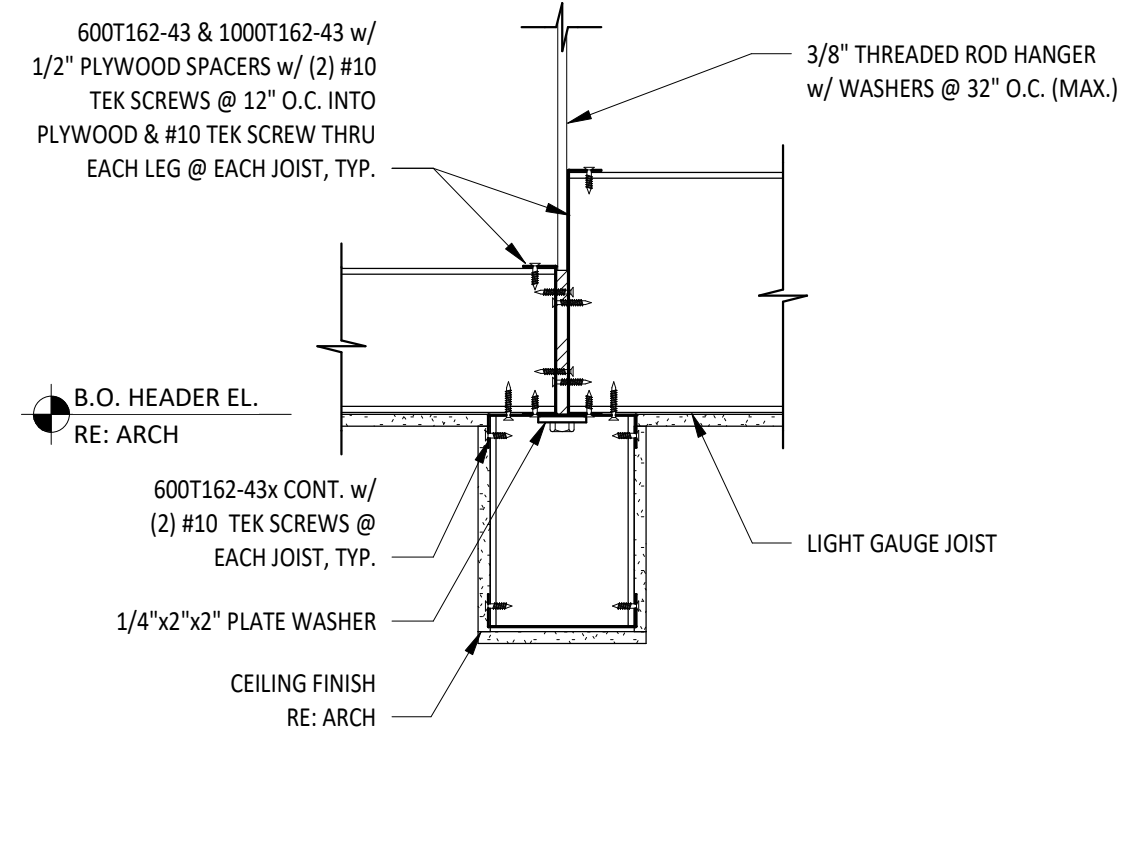
14 WOOD INFILL FRAMING @ W-BEAM
3" = 1'-0"



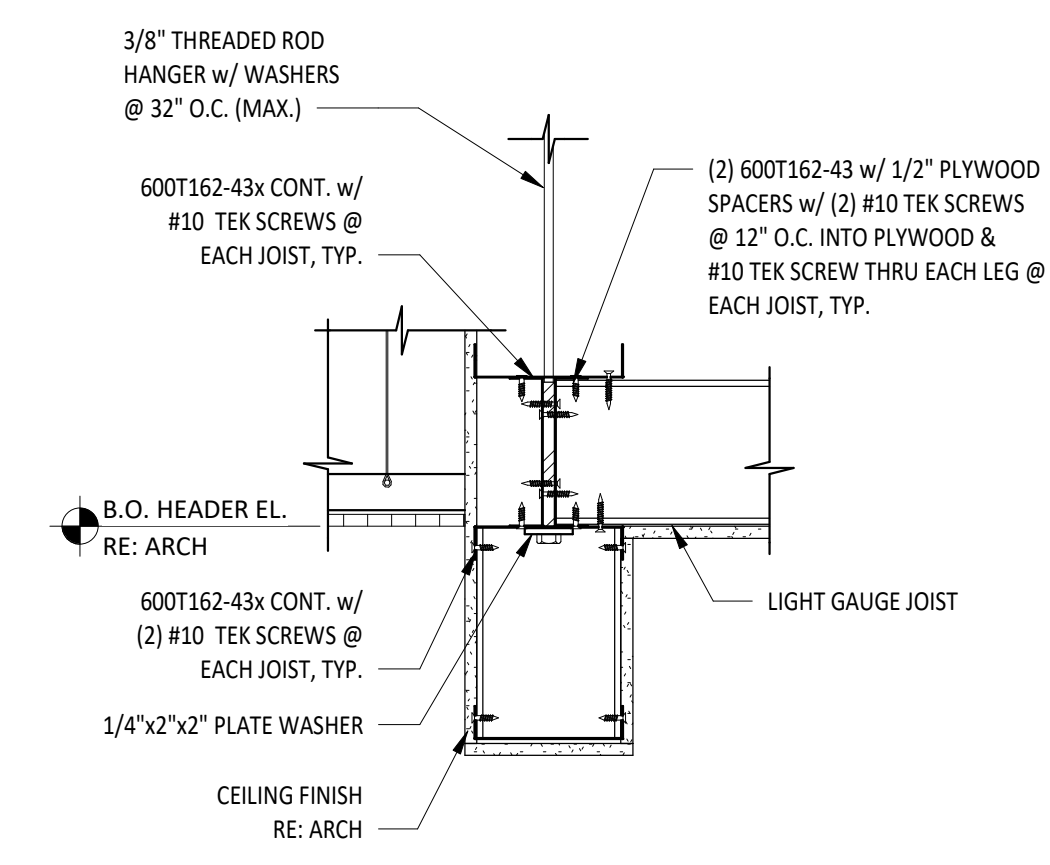
15 TYPICAL HANGER ROD AT ROOF BEAM DETAIL
1 1/2" = 1'-0"



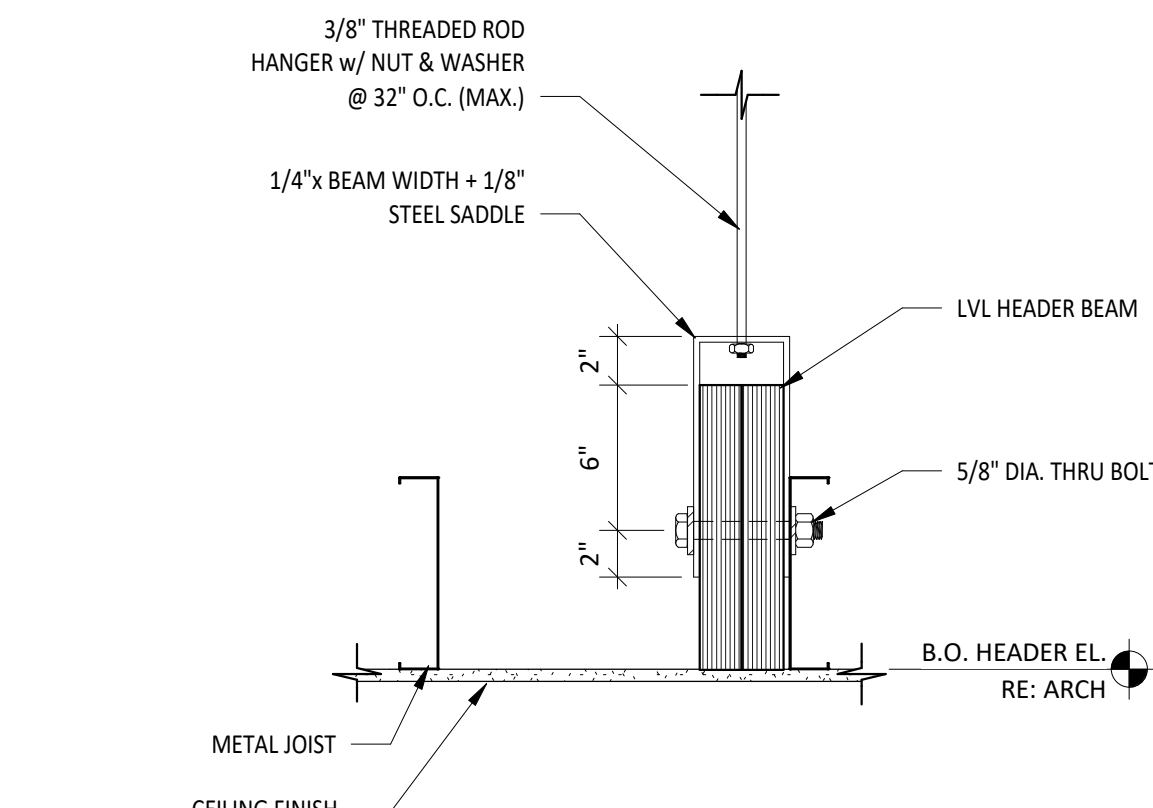
16 ROD CONNECTION @ TRUSS FRAMING
1" = 1'-0"



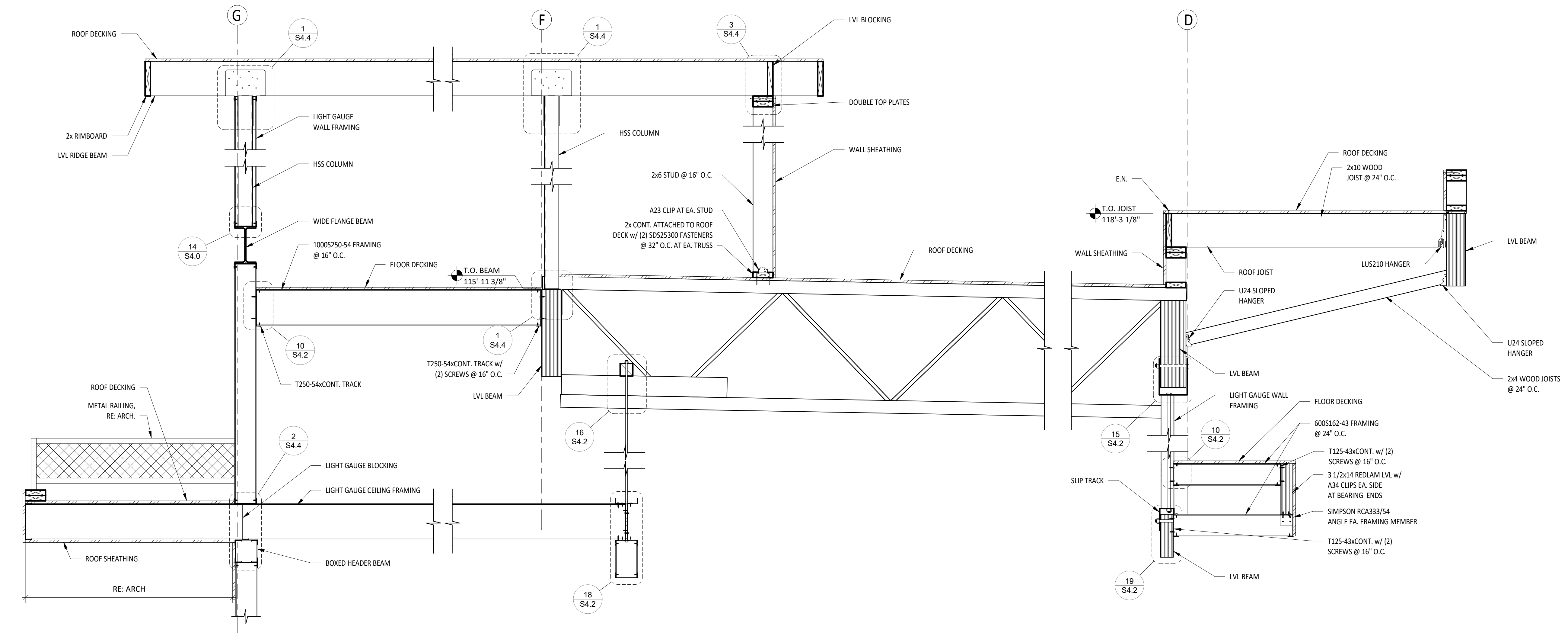
17 DOUBLE 2x CEILING HEADER/HANGER ROD DETAIL
1 1/2" = 1'-0"



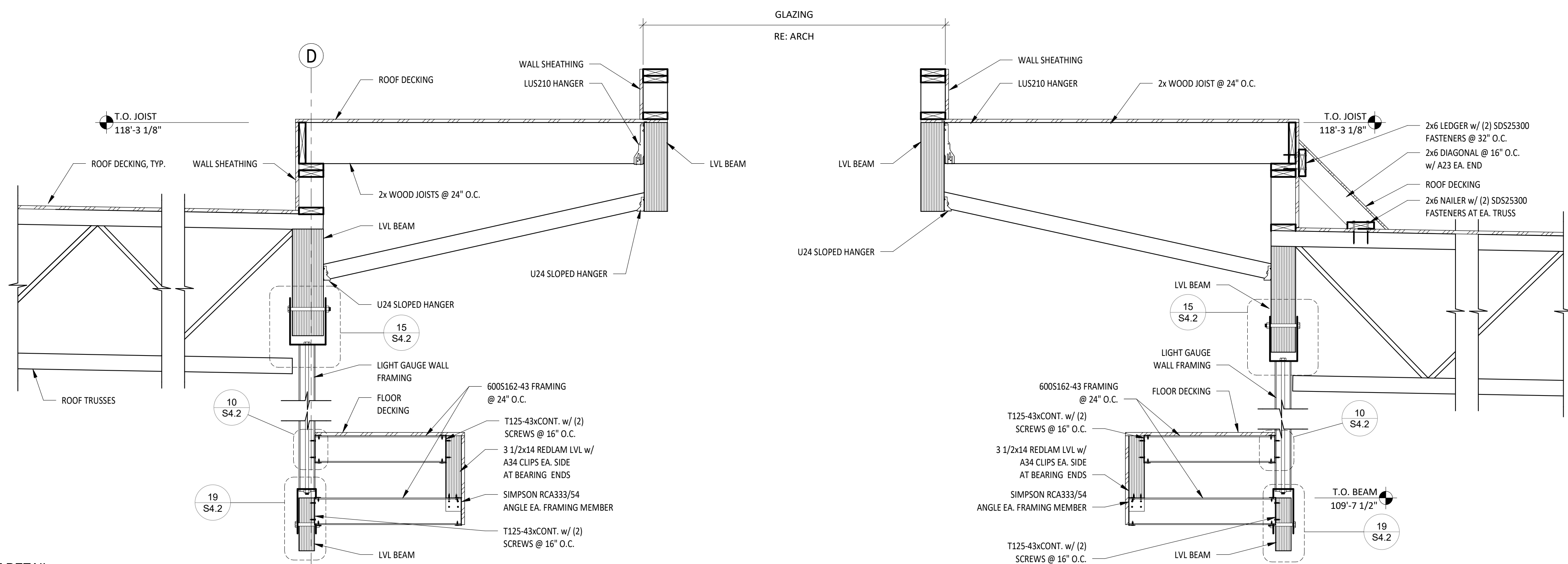
18 DOUBLE 2x CEILING HEADER/HANGER ROD DETAIL
1 1/2" = 1'-0"



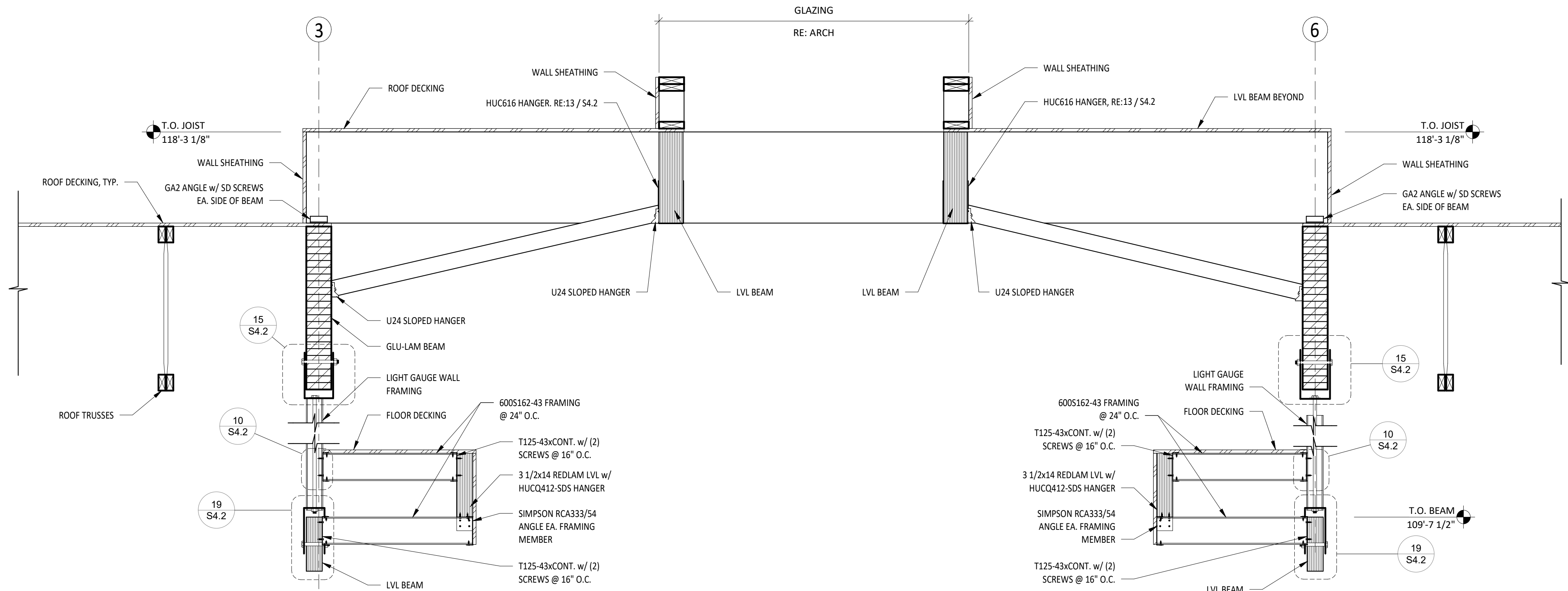
19 LVL CEILING HEADER/HANGER ROD DETAIL
1 1/2" = 1'-0"



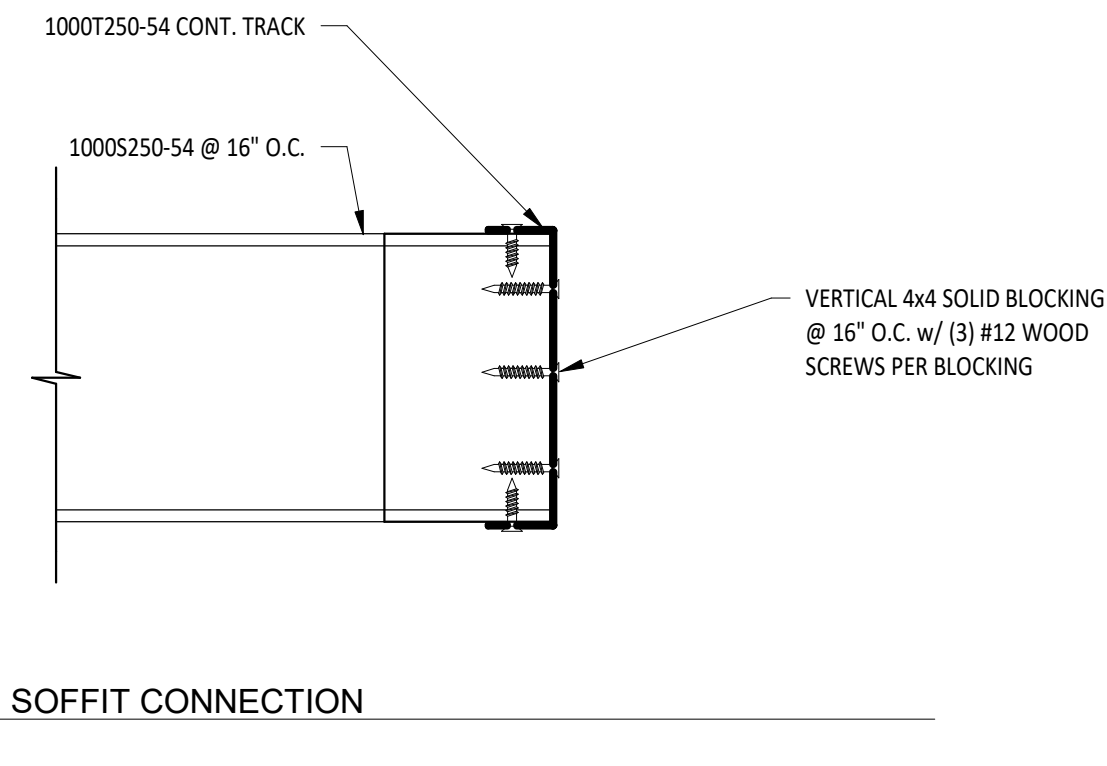
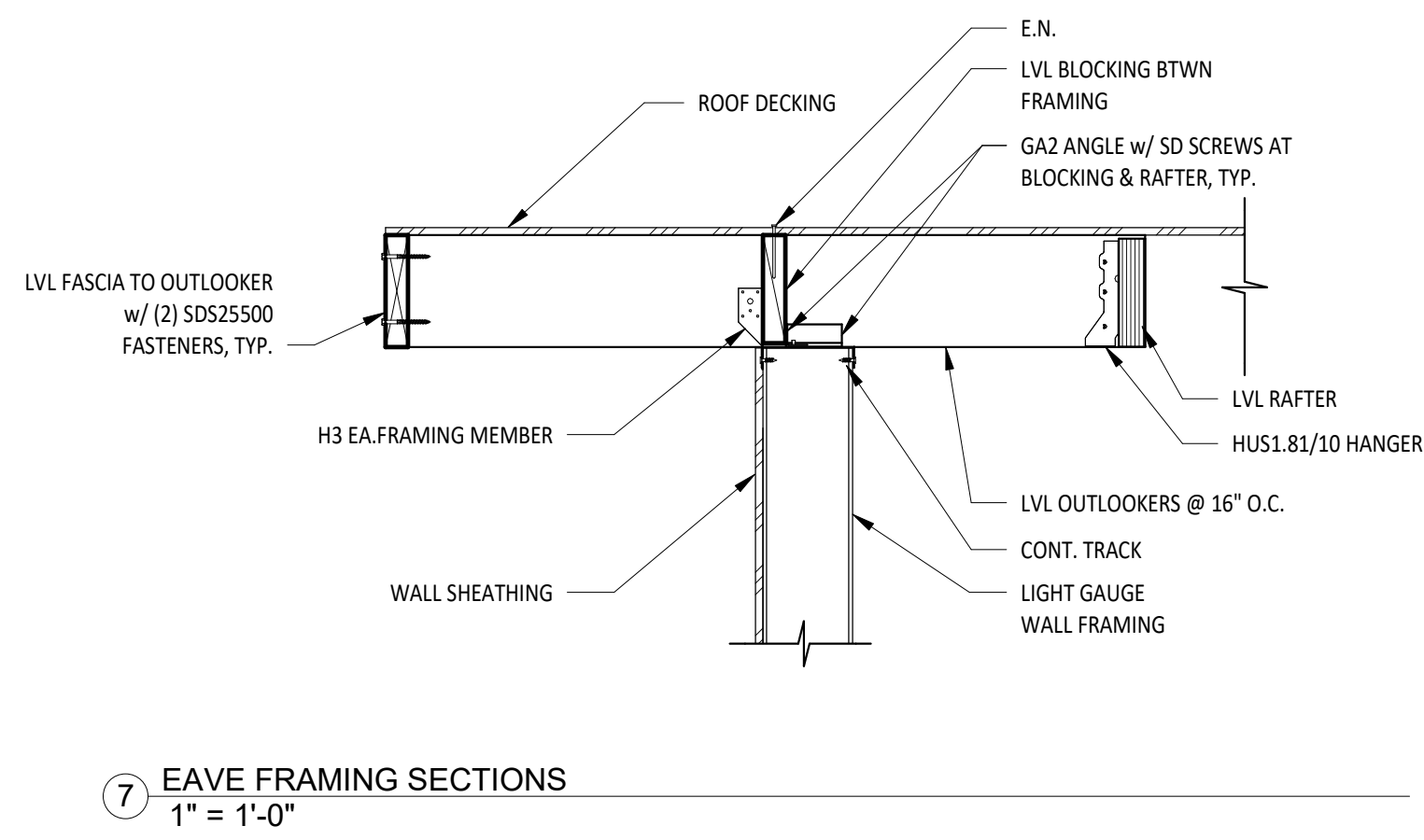
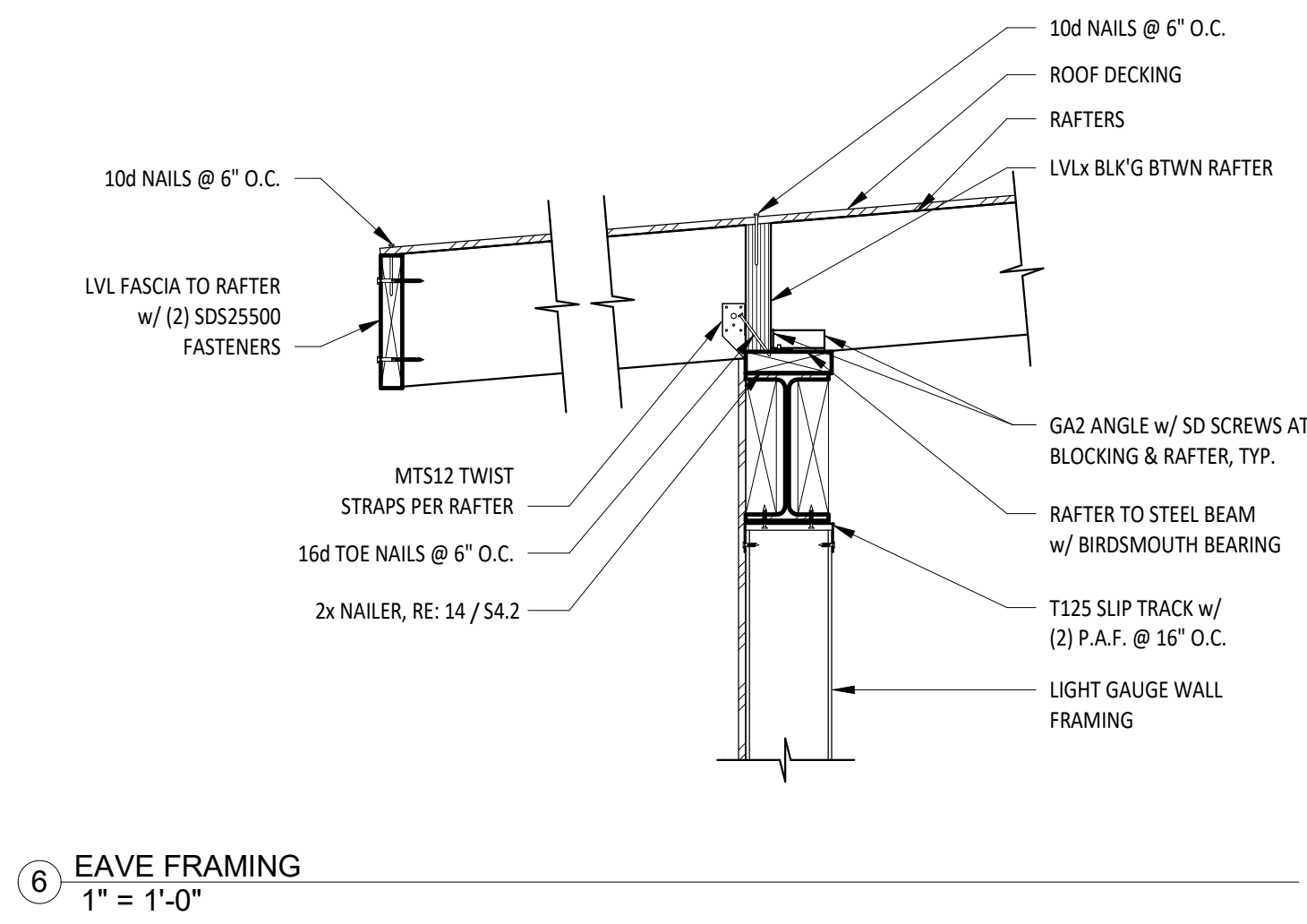
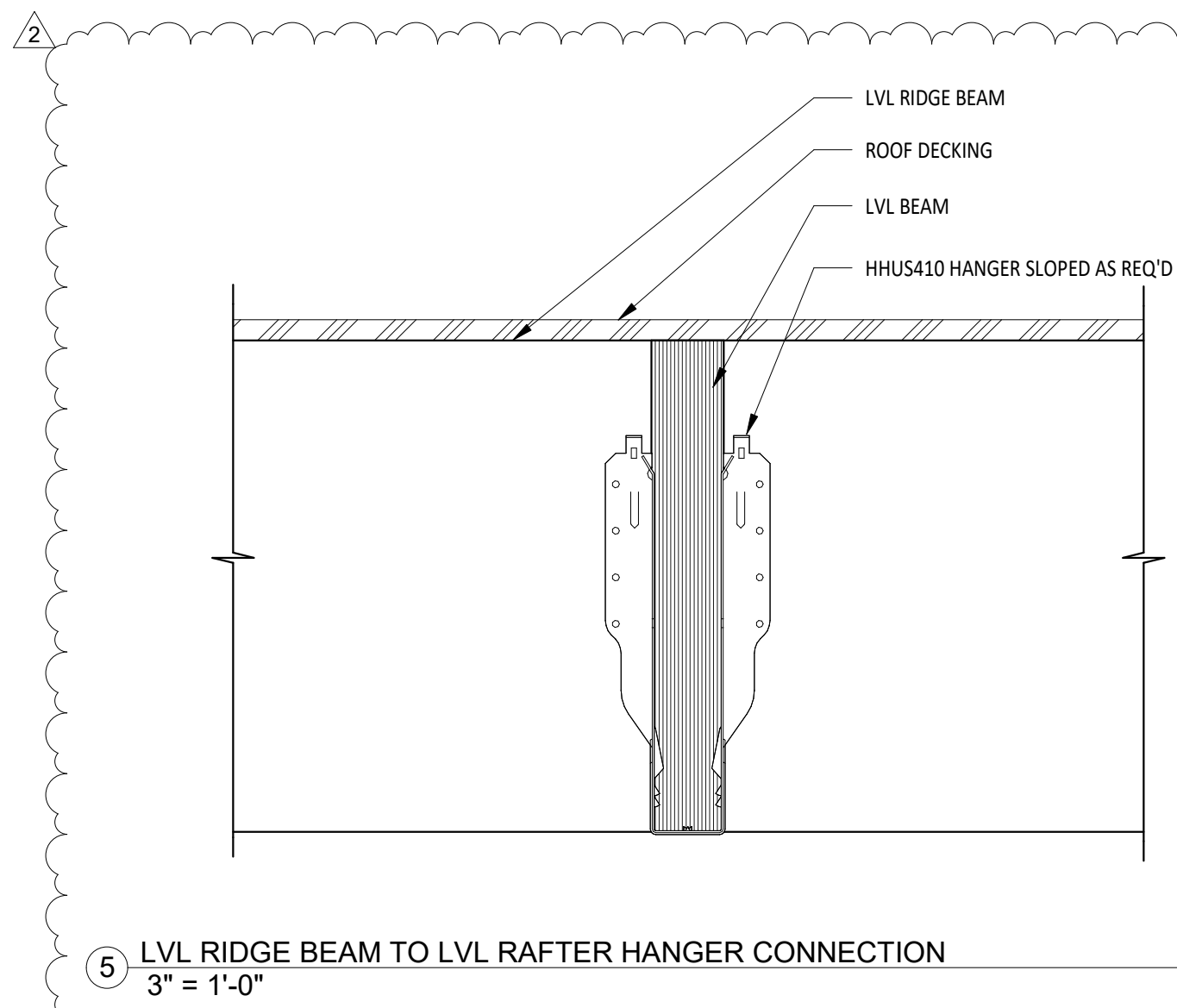
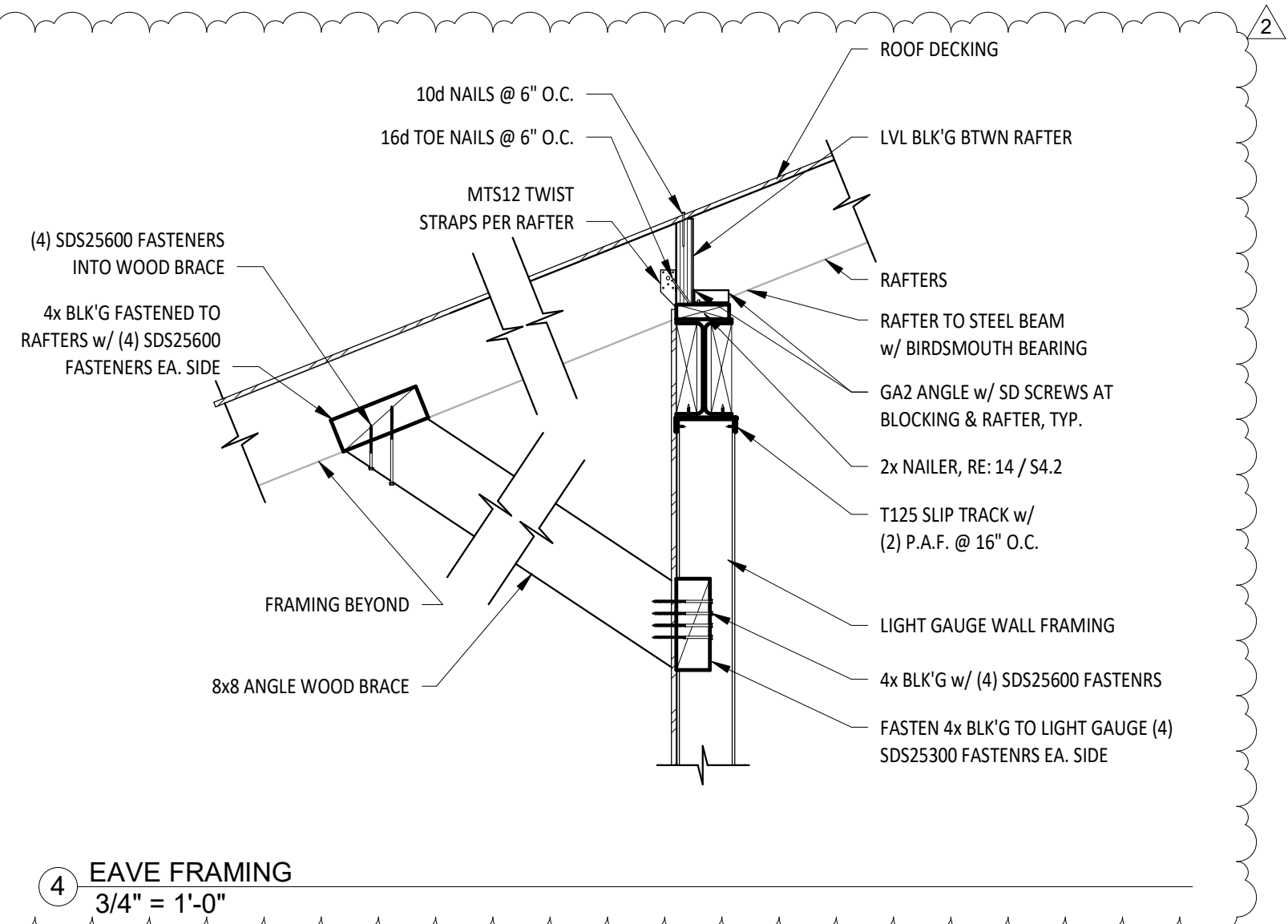
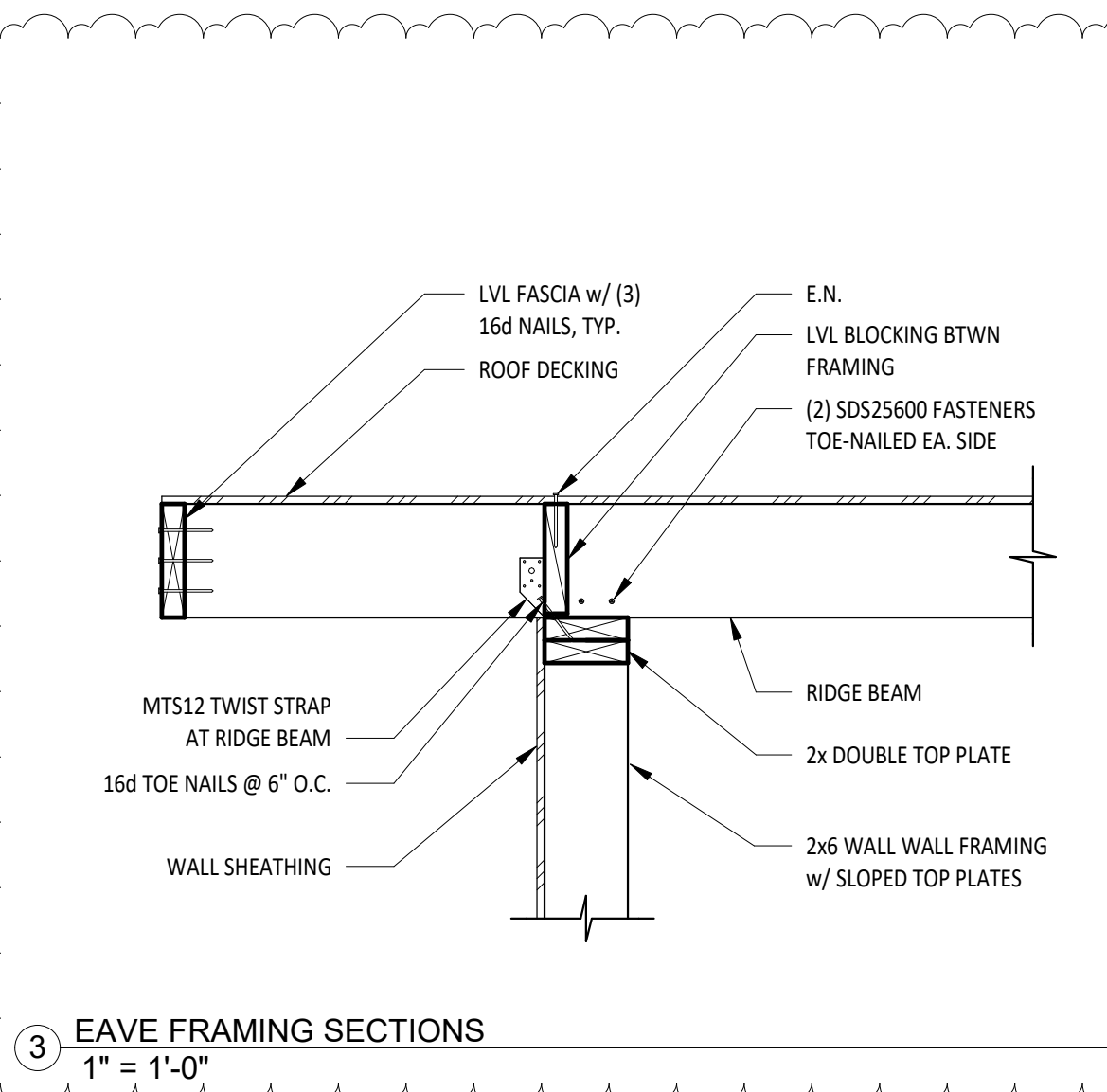
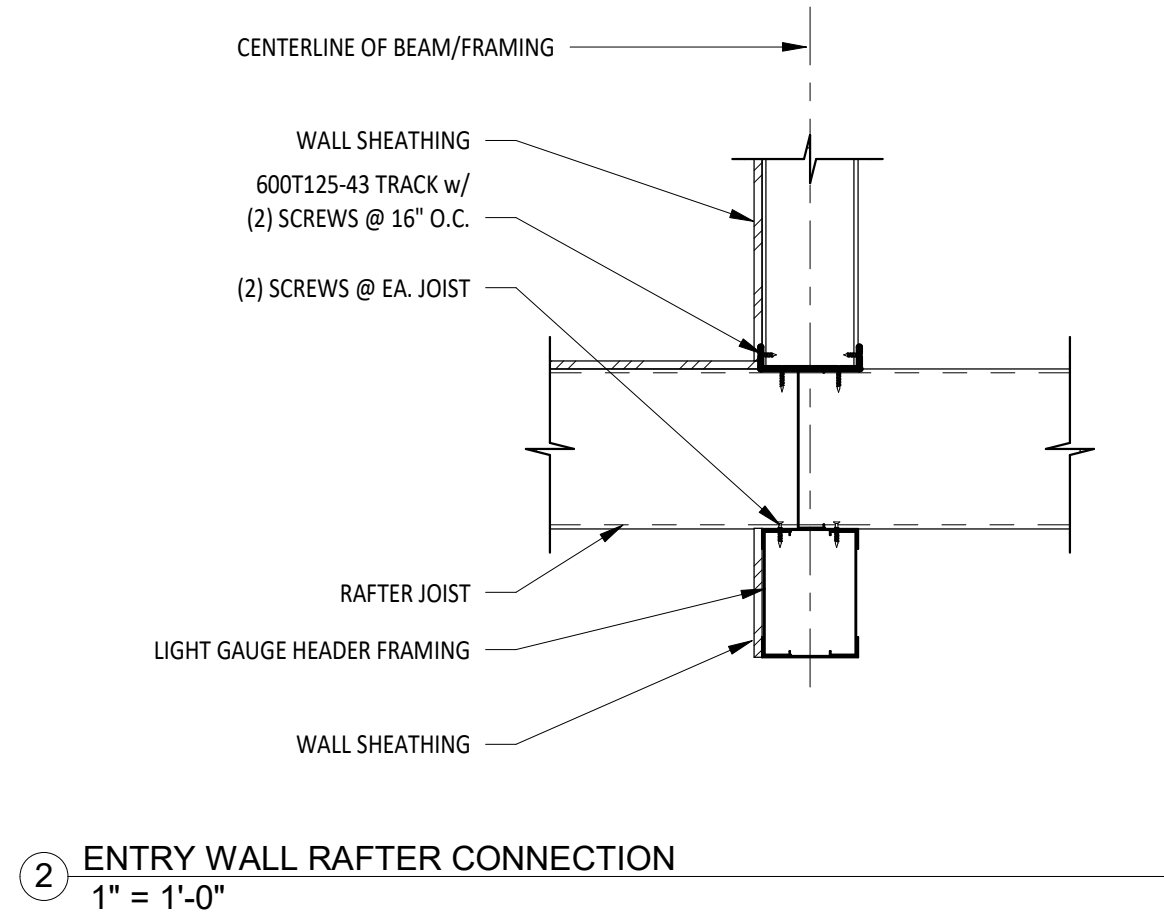
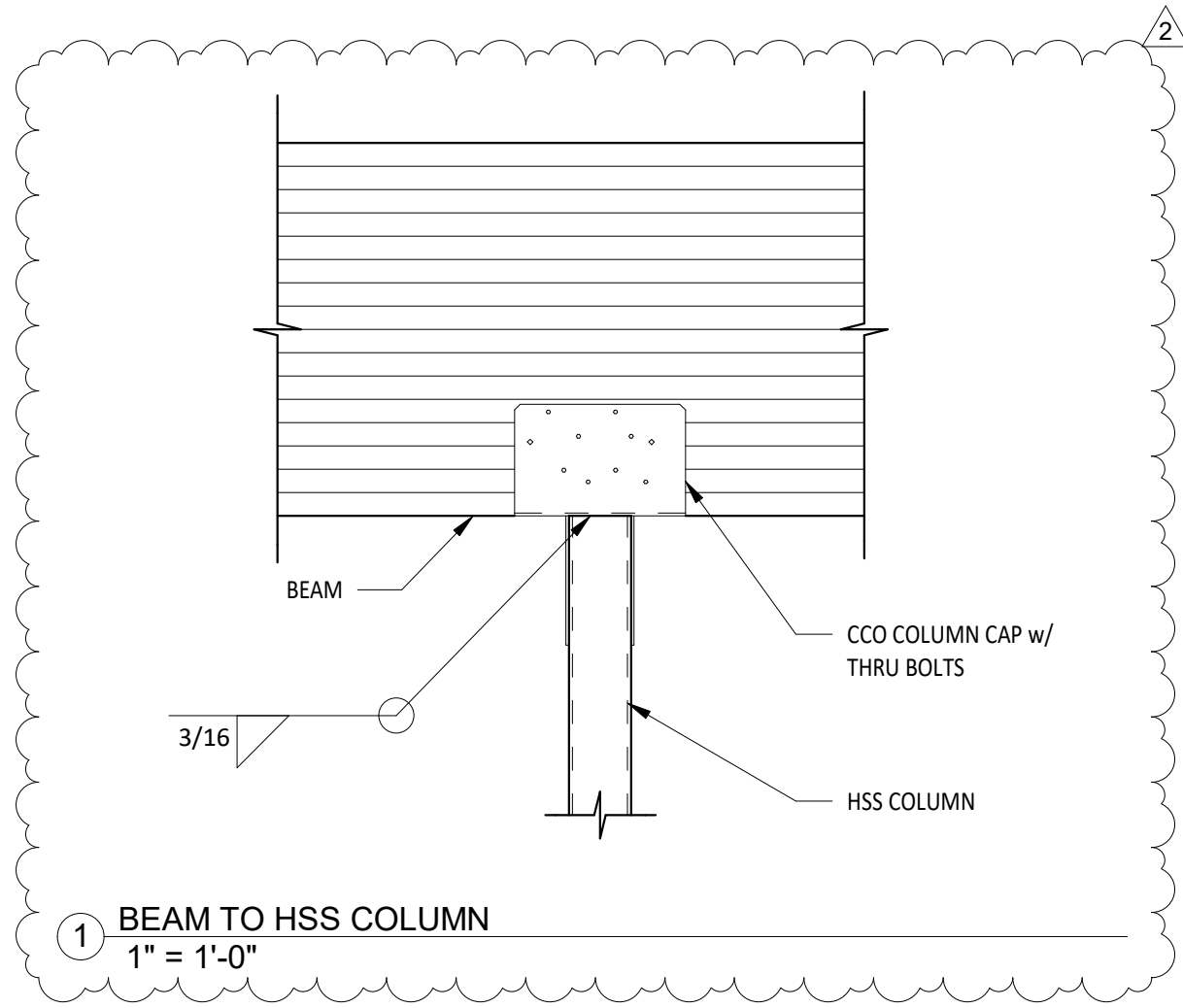
① SIDE ATRIUM DETAIL
3/4" = 1'-0"

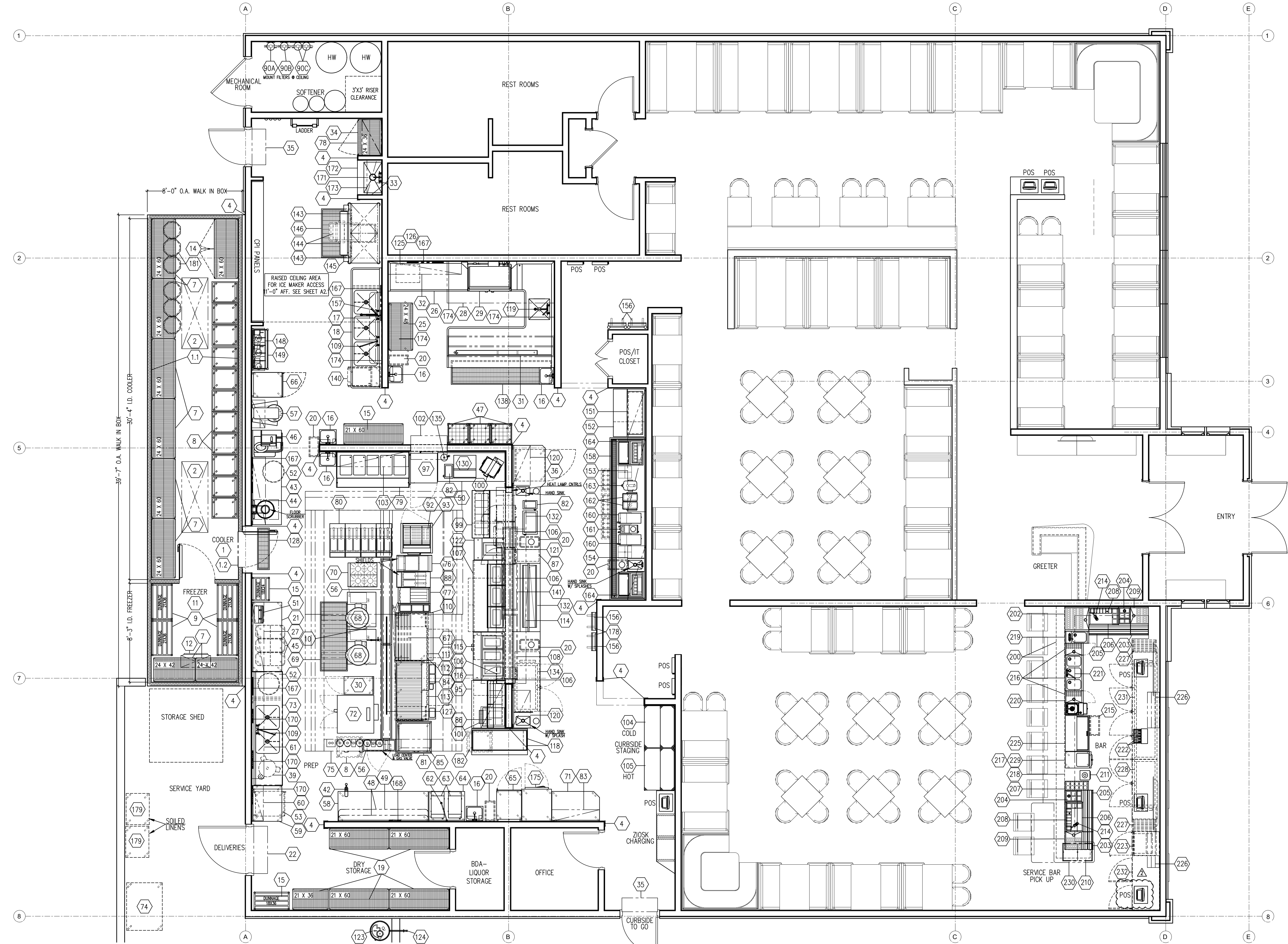
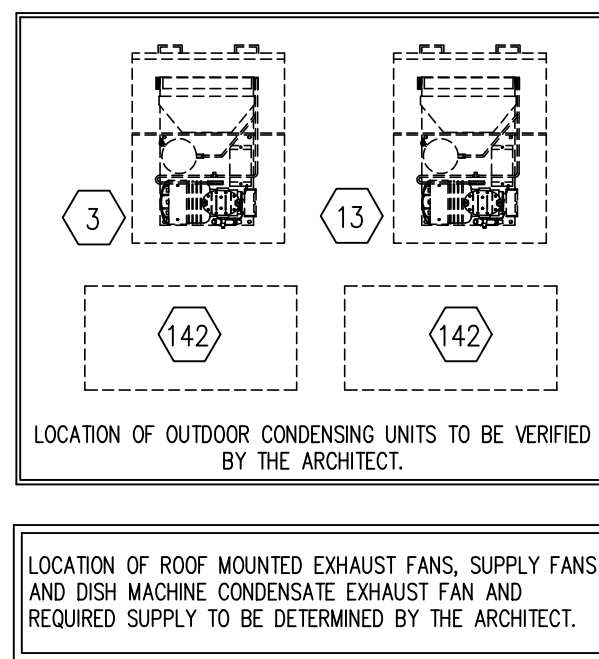


② ATRIUM DETAIL
3/4" = 1'-0"



③ ATRIUM DETAIL
3/4" = 1'-0"





FOODSERVICE EQUIPMENT SCHEDULE		
ITEM	QTY.	DESCRIPTION
1	1	WALK-IN COOLER
1.1	15	ALUMINUM WALK-IN COVE BASE
1.2	1	WALK-IN STRIP CURTAIN
2	2	COOLER EVAPORATOR COIL
3	1	COOLER CONDENSING UNIT
4	LOT	CORNER GUARD/ END CAPS
5	-	OPEN NUMBER
6	-	OPEN NUMBER
7	LOT	WALK-IN SHELVING (4 POST)
8	LOT	MOBILE UTILITY RACK
9	LOT	WALK-IN DUNNAGE RACK
10	1	POT AND KETTLE FILLER
11	1	WALK-IN FREEZER
12	1	FREEZER EVAPORATOR COIL
13	1	FREEZER CONDENSING UNIT
14	1	SECURITY UNIT
15	2	DRY STORAGE DUNNAGE RACK
16	5	HAND SINK
17	1	WALL MOUNTED POT RACK
18	1	POT WASH SINK
19	LOT	DRY STORAGE SHELVING UNITS
20	LOT	TRASH CAN
21	1	WORK TABLE
22	1	48" AIR CURTAIN & MICROSWITCH
23	-	OPEN NUMBER
24	1	WALL SHELF
25	LOT	MOBILE CLEAN DISH SHELVING
26	1	CLEAN DISHTABLE
27	1	WALL SHELF
28	1	CONDENSATE HOOD
29	1	DISHMACHINE
30	1	SMOKER OVEN
31	1	SOILED DISHTABLE W/ OVERSHELF
32	1	WALL SHELF
33	1	MOP SINK STAINLESS FLASHING
34	1	SECURITY UNIT (CHEMICALS)
35	2	36" AIR CURTAIN WITH MICROSWITCH
36	1	UNDERCOUNTER FREEZER
37	1	WORK TABLE
38	-	OPEN NUMBER
39	1	LETTUCE DRYER
40	-	OPEN NUMBER
41	-	OPEN NUMBER
42	1	CAN OPENER
43	1	WORK TABLE
44	1	WALL SHELF
45	3	INGREDIENT BIN
46	1	SLICER
47	LOT	GLASS RACKS & CARTS
48	-	OPEN NUMBER
49	LOT	WALL SHELVES
50	1	WORK TABLE
51	1	FOOD SEALER
52	2	MOBILE CHILLER
53	1	HALF SIZE PROOFER
54	-	OPEN NUMBER
55	-	OPEN NUMBER
56	1	S/S COOK LINE CHASE WAY
57	1	30 QT. MIXER
58	1	MOBILE WORK TABLE
59	1	MOBILE WORK TABLE
60	1	WALL SHELF
61	1	WALL SHELF
62	1	POT FILLER FAUCET
63	2	COUNTERTOP RETHERMALIZER
64	1	WORK TABLE
65	1	FULL HT. HOT HOLDING CABINET
66	1	THAW BOX
67	1	TUBULAR GRIDDLE OVERSHELF
68	2	20 GALLON KETTLE
69	1	FLOOR THROUGH W/ GRATE
70	1	4 BURNER HOTPLATE ON STAND
71	1	WORK TABLE
72	1	DOUBLE CONVECTION OVEN
73	1	PREP TABLE WITH SINKS
74	1	FRYER OIL DISPOSAL BIN
75	LOT	EXHAUST HOOD W/ FIRE SUPPRESSION
76	1	PASTA COOKER
77	1	CRISP N HOLD ON STAND
78	1	WALL SHELF
79	1	REFRIGERATED BATTER STATION
80	1	4 FRYER BANK W/ BUILT-IN FILTRATION
81	1	TURBOCHEF OVEN STAND
82	2	HOT FOOD WELL
83	LOT	WALL SHELVES
84	1	60" CHAR BROILER
85	1	TURBO CHEF OVEN
86	1	WALL SHELF
87	1	COMPRESSOR FOR EXPO COLD WELLS
88	1	FRYER W/ BUILT-IN FILTRATION
89	-	OPEN NUMBER
90A	LOT	SORTED WATER FILTER FOR TEA BREWERS
90B	LOT	UNSORTED WATER FILTER SOCA / COFFEE
90C	LOT	UNSORTED WATER FILTER FOR ICE MAKERS
91	-	OPEN NUMBER
92	1	CRISP N HOLD
93	1	UNDER COUNTER FREEZER
94	-	OPEN NUMBER
95	1	REFRIGERATED PREP TABLE
96	-	OPEN NUMBER
97	1	WORK TOP FREEZER
98	1	BACK BAR SUPPORT LEGS (NOT SHOWN)
99	1	SALAD PREP / PANTRY REFRIGERATOR
100	1	TORTILLA PRESS
101	1	CONTACT TOASTER
102	1	S/S PASS THRU SHELF
103	1	WALL SHELF
104	1	METRO STATION CARRYOUT (COLD)
105	1	METRO STATION CARRYOUT (HOT)
106	3	MICROWAVE OVEN

FOODSERVICE EQUIPMENT SCHEDULE		
ITEM	QTY.	DESCRIPTION
107	1	REFRIGERATED PREP TABLE
108	1	66" DUAL MOUNTED HEAT LAMPS
109	2	FAUCET
110	1	CONDIMENT RAIL
111	1	48" GRIDDLE
112	1	48" REFRIGERATED EQUIPMENT STAND
113	1	60" REFRIGERATED EQUIPMENT STAND
114	1	DOUBLE PASS THRU SHELF
115	1	FREE STANDING WARMING DRAWER
116	1	3 WELL HOT FOOD TABLE
117	-	OPEN NUMBER
118	1	CROISSANT SERVER W/ STAND
119	1	PRE-RINSE FAUCET
120	2	WALL SHELF
121	1	THERMO FINISHER
122	1	1 WELL HOT FOOD TABLE
123	1	BULK STORAGE CO2 TANK
124	1	CO2 REMOTE FILL BOX
125	1	BOOSTER HEATER STAND
126	1	BOOSTER HEATER
127	1	GRILL STATION SPLASH SHIELD
128	1	FLOOR THROUGH W/ GRATE
129	-	OPEN NUMBER
130	1	NACHO CHIP WARMER
131	1	EXPO COUNTER W/ COLD WELLS
132	1	COUNTERTOP FOOD WARMER
133	-	OPEN NUMBER
134	1	UNDER COUNTER REFRIGERATOR
135	1	DIPPER WELL
136	-	OPEN NUMBER
137	-	OPEN NUMBER
138	1	FLOOR THROUGH W/ GRATE
139	-	OPEN NUMBER
140	1	UNDER COUNTER BUN PAN RACK
141	1	84" DUAL MOUNTED HEAT LAMPS
142	2	ICE MACHINE REMOTE CONDENSERS
143	2	ICE MACHINE
144	1	ICE BIN WITH MOBILE ICE CART
145	1	ICE SCOOP HOLDER
146	1	FLOOR THROUGH W/ GRATE
147	-	OPEN NUMBER
148	3	CARBONATORS
149	1	BAG IN BOX SYSTEM
150	-	OPEN NUMBER
151	1	WALL SHELF
152	1	SALAD PREP TABLE
153	1	BEVERAGE AREA WALL SHELF
154	1	BEVERAGE AREA WALL SHELF
155	-	OPEN NUMBER
156	2	S/S TRAY JACK HOLDER (WALL MOUNT)
157	1	PRE-RINSE W/ ADD ON FAUCET
158	1	BEVERAGE COUNTER W/ DUMP SINK
159	-	OPEN NUMBER
160	2	ICED TEA BREWER
161	1	COFFEE BREWER
162	2	LEMONADE DISPENSER
163	2	ICED TEA DISPENSER
164	2	SODA DISPENSER W/ BIN
165	2	18" PEPPER MILL SHELF (FLOOR MOUNT)
166	2	S/S TRAY JACK HOLDER (FLOOR MOUNT)
167	LOT	36" PEG HOOK RACK
168	LOT	12" PEG HOOK RACK
169	-	OPEN NUMBER
170	LOT	KNIFE RACK
171	1	MOP SINK FAUCET
172	1	MOP SINK
173	1	MOP SINK SHELF
174	LOT	STAINLESS WALL FLASHING
175	-	OPEN NUMBER
176	-	OPEN NUMBER
177	-	OPEN NUMBER
178	2	18" PEPPER MILL SHELF (WALL MOUNT)
179	-	OPEN NUMBER
180	-	OPEN NUMBER
181	6	BEER KEG DOLLIES
182	1	HALF HEIGHT MOBILE BREAD RACK
183	1	KDS POLE 72" FLOOR MNT. (NOT SHOWN)
184	2	KDS POLE 36" HOOD MNT. (NOT SHOWN)
185	2	CH BUMP BRACKET
186	1	CASH DRAWER HOLDER (NOT SHOWN)
187	3	PRINTER SHELF (NOT SHOWN)
BAR EQUIPMENT SCHEDULE		
ITEM	QTY.	DESCRIPTION
200	1	BAR TOP AND DIE WALL
201	-	OPEN NUMBER
202	1	CORNER DRAIN BOARD
203	2	18" DOUBLE SPEED RAIL
204	2	INSULATED BOTTLE WELL
205	2	42" DOUBLE SPEED RAIL
206	2	30" ICE BIN W/ COLD PLATE
207	1	LIQUOR DISPLAY
208	2	CONDIMENT TRAY
209	2	18" DRAIN BOARD
210	-	OPEN NUMBER
211	1	BAR BLENDER
212	-	OPEN NUMBER
213	-	OPEN NUMBER
214	2	36" SODA GUNS
215	LOT	TRASH CAN
216	1	BAR SINK WITH DRAINBOARD STORAGE
217	1	BEVERAGE MACHINE CART
218	1	BLENDER STATION
219	1	12" DUMP SINK
220	1	UNDERBAR HAND SINK
221	1	STAINLESS STEEL DRINK RAIL
222	1	BEER TOWER AND DRAINER
223	1	SINGLE DOOR REFRIGERATOR
224	-	OPEN NUMBER
225	1	36" GLASS FROSTER
226	2	LIQUOR BOTTLE DISPLAY
227	2	BACK BAR STEM WEAR CABINET
228	1	2 DOOR BACK REFRIGERATOR
229	1	FROZEN BEVERAGE MACHINE
230	1	SERVICE BAR PICK UP COUNTER
231	1	4 DOOR BACK REFRIGERATOR
232	1	SECURED LIQUOR CABINET

NOTE:
1. PROVIDE SHUT OFFS FOR EACH CARBONATOR (3).
2. ALL STORAGE SHELVING TO HAVE BOTTOM SHELF 12" AFF.

NOTE:
ALL WALK IN SHELVING UNITS ARE 5 TIER HIGH
ALL DRY STORAGE SHELVING UNITS ARE 5 TIER HIGH

idstudio⁴

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PROJECT NUMBER:
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4564
www.darden.com

Cheddar's
SCRATCH KITCHEN

Issue Date: 01/23/23

REVISION INFORMATION

1 CITY COMMENTS 04.04.2023

2 COORDINATION COMMENTS 04.05.2023

Restaurant #: 2215

CHEDDAR'S
SCRATCH KITCHEN

PROTO 18

10150 BLOOMINGDALE AVE

RIVERVIEW, FL 33578

RIVERVIEW, FL

FOOD SERVICE

FLOOR PLAN

FS-1

FOOD SERVICE EQUIPMENT SCHEDULE																
ITEM NO.	QUANTITY	DESCRIPTION	MAKE	MODEL	ELECTRICAL DATA					PLUMBING DATA					REMARKS	
					VOLTS	PHASE	AMPS	DIRECT	WATER	WATER	WATER	WATER	WATER	WATER		
1	1	WALK-IN COOLER	KOLPAK	CUSTOM	120	1	20	X								REFER TO SHOPS
1.1	LOT	ALUMINUM WALK-IN COVE BASE	NEW AGE	9787C												
1.2	2	WALK-IN STRIP CURTAIN	CURTON	M106-PR-4080												
2	2	COOLER EVAPORATOR COIL	KOLPAK		120	1	1.6			1"		X				REFER TO SHOPS
3	1	COOLER CONDENSING UNIT	KOLPAK		208	3	16.6	X								REFER TO SHOPS
4	LOT	CORNER GUARD / END CAPS	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
5	-	OPEN NUMBER														REFER TO SHOPS
6	-	OPEN NUMBER														SIZES PER PLAN
7	LOT	WALK-IN STORAGE SHELVING	METRO (4 POST)	METROSEAL												
8	LOT	MOBILE UTILITY RACK	ADVANCE TABCO	PR20-3W-1X												
9	LOT	WALK-IN DUNNAGE RACK	METRO	DUNNAGE RACK												
10	1	POT AND KETTLE FILLER	T&S BRASS	B-0605						12"	12"					
11	1	WALK-IN FREEZER	KOLPAK	CUSTOM	120	1	20	X								REFER TO SHOPS
12	1	FREEZER EVAPORATOR COIL	KOLPAK		208	3	1.0			1"		X				REFER TO SHOPS
13	1	FREEZER CONDENSING UNIT	KOLPAK	SEC3K3	208	3	12.6	X								REFER TO SHOPS
14	1	SECURITY UNIT	METRO	METROSEAL												3 SHELVES
15	2	DRY STORAGE DUNNAGE RACK	METRO	DUNNAGE RACK												
16	5	HAND SINK	CUSTOM S/S	BY CUSTOM S/S FABRICATOR						12"	12"	1 1/2"	X			WITH SPLASHES
17	1	WALL MOUNTED POT RACK	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
18	1	POT WASH SINK	CUSTOM S/S	BY CUSTOM S/S FABRICATOR						(2)12"	(2)12"	2"	X			REFER TO SHOPS
19	LOT	DRY STORAGE SHELVING UNITS	METRO	SUPER ERECTA PRO												SIZES PER PLAN
20	LOT	TRASH CANS	RUBBERMAID	SLIM JIM												SMALLWARES
21	1	WORK TABLE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
22	1	48" AIR CURTAIN & MICROSWITCH	MARS	N248-1U	120	1	10		X							CONNECT TO MICRO SWITCH
23	-	OPEN NUMBER														REFER TO SHOPS
24	1	S/S WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
25	2	MOBILE CLEAN DISH SHELVING	METRO	SUPER ERECTA												W/ CASTERS SIZES PER PLAN
26	1	CLEAN DISHTABLE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
27	1	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
28	1	CONDENSATE HOOD	CAPTIVE AIRE	CUSTOM												REFER TO SHOPS
29	1	DISH MACHINE	ECOLAB	EC44H1	208	3	66	X	3/4"	2"		X				140" HOT WATER
30	1	SMOKER OVEN	ALTO-SHAAM	1000-SK4	208	1	31	X								
31	1	SOLED DISHTABLE W/ OVERSHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR						12"	12"	2"	X			REFER TO SHOPS
32	1	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
33	1	MOP SINK STAINLESS FLASHING	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
34	1	SECURITY UNIT (CHEMICALS)	METRO	METROSEAL												
35	2	36" AIR CURTAIN & MICROSWITCH	MARS	N236-1U	120	1	10		X							REFER TO SHOPS
36	1	WORK TOP FREEZER	DELFIELD	GUF32BP-S-EX	115	1	4.7									
37	-	OPEN NUMBER														REFER TO SHOPS
38	-	OPEN NUMBER														
39	1	LETTUCE DRYER	HOBART	SD-PS	120	1	2.5		X							
40	-	OPEN NUMBER														
41	-	OPEN NUMBER														
42	1	CAN OPENER	EDLUND	S-11												
43	1	WORK TABLE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
44	1	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
45	3	INGREDIENT BIN	RUBBERMAID	SMALLWARES												SMALLWARES
46	1	SLICER	GLOBE	J850N	120	1	7		X							SMALLWARES
47	LOT	GLASS RACKS & CARTS		SMALLWARES												SMALLWARES
48	-	OPEN NUMBER														
49	LOT	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
50	1	WORK TABLE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
51	1	FOOD SEALER	VACMASTER	B5116	120	1	8		X							
52	2	MOBILE CHILLER	PLASCON PACKAGING	MC-32	120	1	3.5	X								
53	1	HALF SIZE PROOFER	PWE	ETC-UA-4PH	120	1	20		X							
54	-	OPEN NUMBER														
55	1	S/S CHEF COUNTER PASS SHELVES	CUSTOM S/S	BY CUSTOM S/S FABRICATOR	120	3	250	X								
56	1	S/S COOK LINE CHASE WAY	CUSTOM S/S	BY CUSTOM S/S FABRICATOR	120	3	250	X								
57	1	30 QT MIXER	GLOBE	SP30	120	1	15		X							
58	1	MOBILE WORK TABLE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR						12"	12"					REFER TO SHOPS
59	1	MOBILE WORK TABLE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
60	1	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
61	1	WALL SHELF	BY CUSTOM S/S FABRICATOR													REFER TO SHOPS
62	1	POT FILLER FAUCET	T&S BRASS	B-0580						12"						
63	2	COUNTERTOP RETHERMALIZER	PTICO	CRTE	208	1	28.8EA	X		3/8"		X				
64	1	WORK TABLE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
65	1	FULL HT. HOT HOLDING CABINET	ALTO-SHAAM	1200-UP	120	1	16		X							
66	1	THAW BOX	ELECTROLUX	727655	208	1	7.2		X							
67	1	TUBULAR GRIDDLE OVERSHELF	DELFIELD	PART OF #112 REF BASE												
68	2	20 GAL. ELECTRIC KETTLE	ORCEN	DEE4-20	208	3	30	X	12"	12"						W/ PANTRY FAUCET
69	1	FLOOR TROUGH W/ GRATE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR							3"					
70	1	4 BURNER HOTPLATE ON STAND	VULCAN	VCRH24										3/4"	100M	
71	1	WORK TABLE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												
72	1	DOUBLE CONVECTION OVEN	DFO-100-ES (DOUBLE)	BLODGETT	21115	1	5.0 EA			12"	12"	2"	X		(2)3/4"	45M EA
73	1	PREP TABLE WITH SINKS	CUSTOM S/S	BY CUSTOM S/S FABRICATOR							12"	12"	2"	X		
74	1	FRYER OIL DISPOSAL BIN	BY OWNER													
75	1	EXHAUST SYS. W/ FIRE SUPPRESSION	CAPTIVE AIRE	CUSTOM	120	1	20									REFER TO SHOPS
76	1	PASTA COOKER	PTICO	SSPG14	120	1	1.0			12"	2"	X		3/4"	60M	
76A	1	PASTA SPLASH GUARD	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
77	1	CRISP-A-HOLD ON STAND	CARTER HOFFMAN	CNH14	120	1	15									REFER TO SHOPS
78	1	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
79	1	REFRIGERATED BATTER STATION	CUSTOM S/S	BY CUSTOM S/S FABRICATOR	120	1	10									REFER TO SHOPS
80	1	4 FRYER BANK W/ BUILT-IN FILTRATION	HENNY PENNY	EEG 244	120	1	12.2							1"	300M	
81	1	TURBOCHEF OVEN STAND	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
82	2	HOT FOOD WELL	APW	W-9	120	1	3.3									
83	LOT	WALL SHELVES	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												
84	1	60" CHARIROILER	VULCAN	VAC800										3/4"	109M	
85	1	TURBO CHEF OVEN	TURBO CHEF	YHD-9600-152-OL	208	1	50		X							
86	1	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
87	1	COMPRESSOR FOR EXPO COLD WELLS	CUSTOM S/S	BY CUSTOM S/S FABRICATOR	120	1	5 EA									REFER TO SHOPS
88	1	FRYER W/ BUILT-IN FILTRATION	HENNY PENNY	EEG241	120	1	24.4							3/4"	75M	
89	-	OPEN NUMBER														

FOOD SERVICE EQUIPMENT SCHEDULE																
ITEM NO.	QUANTITY	DESCRIPTION	MAKE	MODEL	ELECTRICAL DATA					PLUMBING DATA					REMARKS	
					VOLTS	PHASE	AMPS	DIRECT	WATER	WATER	WATER	WATER	WATER	WATER		
90A	LOT	SOFTENED WATER FILTER BANK FOR TEA BREWERS	ECOLAB	BY ECOLAB												
90B	LOT	UNSOFTENED WATER FILTER BANK FOR SODA / COFFEE	ECOLAB	BY ECOLAB												
90C	LOT	UNSOFTENED WATER FILTER FOR ICE MAKERS	ECOLAB	BY ECOLAB (2 INDIVIDUAL FILTERS)												
91	-	OPEN NUMBER														
92	1	CRISP-A-HOLD	CARTER HOFFMAN	CNH28	208	1	14	X								REFER TO SHOPS
93	1	UNDER COUNTER FREEZER	DELFIELD	QUF32P-S-EX	115	1	5.3	X								REFER TO SHOPS
94	-	OPEN NUMBER	-	-												W/ BRACKETS
95	1	REFRIGERATED PREP TABLE	DELFIELD	18646-PTBP	115	1	4.7									
96	-	OPEN NUMBER														REFER TO SHOPS
97	1	WORK TOP FREEZER	DELFIELD	QUF27BP-S-EX	115	1	5.0	X								
98	6	S/S BACK BAR SUPPORT LEGS (NOT SHOWN)	CUSTOM S/S	BY CUSTOM S/S FABRICATOR					X							
99	1	SALAD PREP/PANTRY REFRIGERATOR	DELFIELD	18648PTBP	115	1	6.5	X								
100	1	TORTILLA PRESS	GLOBE	GG514D	120	1	15	X								
101	1	CONTACT TOASTER	STAR	HCTE 13M-208	208	1	13.5	X								
102	1	S/S PASS THRU SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
103	1	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
104	1	METRO CARRYOUT STATION (COLD)	METRO	CDR3048CS-C												
105	1	METRO CARRYOUT STATION (HOT)	METRO	CDR3048CS-H	120	1	10.0									REFER TO SHOPS
106	3	MICROWAVE OVEN	MENUMASTER	MDC212	208	1	15.3	X								
107	1	REFRIGERATED PREP TABLE	DELFIELD	18RC72P (WB572 & 21FP4)	115	1	6.5									40"x24" PASS THRU SHELF
108	1	60" DUAL MOUNTED HEAT STRIP	HATCO	GRAHL-6603	120/208	1	17.5	X								INCLUDED IN ITEM 114
109	2	FAUCET	T&S BRASS	B-0231						1/2"	1/2"					
110	1	CONDIMENT RAIL	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
111	1	48" GRIDDLE	VULCAN	948 RX	120	1	1	X						34"	108M	
112	1	REFRIGERATED EQUIPMENT STAND	DELFIELD	17C47P	115	1	6.7 EA	X								
113	1	REFRIGERATED EQUIPMENT STAND	DELFIELD	P7960CP	115	1	6.7 EA	X								
114	1	DOUBLE PASS THRU SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
115	1	FREE STANDING WARMING DRAWER	ALTO-SHAAM	900-1DN	120	1	5.3 EA	X								REFER TO SHOPS
116	1	3'WELL HOT FOOD TABLE	DELFIELD	DEHE48C	208	1	20	X								
117	-	OPEN NUMBER														
118	1	CROSSBAR SERVER W/ STAND	MARSHALLAIR	BY/8	BY CUSTOM S/S FABRICATOR	208	1	11.9M	X							
119	1	PRE RINSE FAUCET	T&S BRASS	B-0133/B-0109-01						1/2"	1/2"					
120	2	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
121	1	THERMO FINISHER	HATCO	TFW-451R1	208	1	16	X								
122	1	1'WELL HOT FOOD TABLE	DELFIELD	CUSTOM 22" UNIT	120	1	17	X	X							
123	1	BULK CO2 TANK	NuCo													
124	1	CO2 REMOTE FILL BOX	NuCo													
125	1	BOOSTER HEATER STAND	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
126	1	BOOSTER HEATER	HATCO	C30	208	3	83.3	X		3/4"						
127	-	OPEN NUMBER														
128	1	FLOOR TROUGH W/ GRATE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR							3"					
129	-	OPEN NUMBER														
130	1	NACHO CHIP WARMER	CARTER HOFFMAN	CW2E	120	1	12.6	X								
131	1	EXPO COUNTER WITH COLD WELL	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
132	1	COUNTERTOP FOOD WARMER	APW	W3V	120	1	13.8	X								
133	-	OPEN NUMBER														REFER TO SHOPS
134	1	UNDER COUNTER REFRIGERATOR	PERLICK	BBSLP60R	120	1	2.5									
135	1	DIPPER WELL	T&S BRASS	B-2282/00667945						1/2"	1"		X			
136	-	OPEN NUMBER														
137	-	OPEN NUMBER														REFER TO SHOPS
138	1	FLOOR TROUGH W/ GRATE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR							3"					REFER TO SHOPS
139	-	OPEN NUMBER														
140	1	UNDER COUNTER BUN PAN RACK		SMALLWARES												
141	1	84" DUAL MOUNTED HEAT LAMPS	HATCO	GRAHL-84D3	120/208	1	23.2	X								INCLUDED IN ITEM 114
142	2	ICE MACHINE REMOTE CONDENSERS	HOISHIZAKI													POWER CONN. AT ICE CUBER
143	2	ICE MACHINE	HOISHIZAKI	KMS-10M1RH-3	258/120	3	8.4 EA 31.2 EA	X		(2) 1/2"	1/2"	X				FILTERED WATER
144	1	ICE BIN WITH MOBILE ICE CART	FOLLETT	DEV16055G-60-ICS-125						2"	2"	X				
145	2	ICE SCOOP HOLDERS	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
146	1	FLOOR TROUGH W/ GRATE	CUSTOM S/S	BY CUSTOM S/S FABRICATOR							3"					REFER TO SHOPS
147	-	OPEN NUMBER														
148	3	CARBONATORS	COKE USA	VARIES	120	1	16 EA	X		1/2"						UNSOFTENED FILTERED WATER
149	1	BAG IN THE BOX SYSTEM	COKE USA	VARIES												
150	-	OPEN NUMBER														
151	1	WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
152	1	SALAD PREP TABLE	DELFIELD	18648PTBP	115	1	6.5	X								
153	1	BEVERAGE AREA WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
154	1	BEVERAGE AREA WALL SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
155	-	OPEN NUMBER														REFER TO SHOPS
156	2	S/S TRAY JACK HOLDER (WALL MTD)	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
157	1	PRE RINSE W/ ADD ON FAUCET	T&S BRASS	B-6133/B0155-05						1/2"	1/2"					
158	1	BEVERAGE COUNTER W/ DUMP SINK	CUSTOM S/S	BY CUSTOM S/S FABRICATOR						1/2"	1/2"	1-1/2"				REFER TO SHOPS
159	-	OPEN NUMBER														
160	2	ICED TEA BREWER	BUNN	35709-0002	120	1	14 EA	X								SOFTENED FILTERED WATER
161	1	COFFEE BREWER	BUNN	AUXIM-DV-3	120	1	20	X		1/4"						UNSOFTENED FILTERED WATER
162	2	LEMONADE DISPENSER	CITRUS WORLD		120	1	15 EA	X								
163	2	ICED TEA DISPENSER	BUNN	34100												
164	2	SODA DISPENSER W/ BIN	COKE USA		120	1	15 EA	X		2"		X				
165	2	18" PEPPER MILL SHELF (FLOOR MTD)	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												
166	2	S/S TRAY JACK HOLDER (FLOOR MTD)	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												
167	LOT	36" PEG HOOK RACK		SMALLWARES												REFER TO SHOPS
168	LOT	12" PEG HOOK RACK		SMALLWARES												REFER TO SHOPS
169	-	OPEN NUMBER	-	-												
170	LOT	KNIFE RACK		SMALLWARES												REFER TO SHOPS
171	1	MOP-SINK FAUCET	-	PROVIDED BY G.C.												
172	1	MOP-SINK	-	PROVIDED BY G.C.												
173	1	MOP-SINK SHELF	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												
174	LOT	STAINLESS WALL FLASHING	CUSTOM S/S	BY CUSTOM S/S FABRICATOR												REFER TO SHOPS
175	1	REACH IN FREEZER	TRAUSSER	G10000	120	1	11.3	X								

GENERAL CONTRACTOR REQUIREMENTS (DIVISIONS 3, 6, 7 & 9)

1. THE GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL WALL BLOCKING WHERE WALLS REQUIRE REINFORCEMENT. LENGTHS OF WALL BLOCKING ARE NOMINAL. ALWAYS EXTEND TO THE NEXT STUD IN EACH DIRECTION.
2. GENERAL CONTRACTOR AND/OR SUBDIVISIONS TO PROVIDE REINFORCEMENT ABOVE FINISHED CEILING FOR HANGING OF SECTION 114000 FURNISHED EQUIPMENT. COORDINATE EXACT SIZE AND REQUIREMENTS WITH SECTION 114000.
3. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH ANY AND ALL FIRE-RESISTANT RATED SHAFTS (IF REQUIRED) FOR EXHAUST HOOD DUCTS IN ACCORDANCE WITH ALL BUILDING CODES.

GENERAL FOODSERVICE AND HEALTH CODE REQUIREMENTS

1. ALL FOODSERVICE EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE CURRENT EDITION OF CODES, RULES AND REGULATIONS OF THE GOVERNING HEALTH DEPARTMENT AUTHORITIES AND BE MANUFACTURED IN STRICT COMPLIANCE WITH AND, IF APPLICABLE, BEAR THE SEAL OF UL, NEMA, ASME, NSF, ETL, AGA, OSHA AND NFPA.
2. CEILING AND WALL SURFACES ADJACENT TO OR ABOVE ANY FOOD PREPARATION AREA, INCLUDING KITCHEN, DISHWASHING AND SERVING AREAS, ETC., SHALL BE SMOOTH, EASILY CLEANABLE AND LIGHT IN COLOR. ANY MATERIALS NOT CLEARLY CONSISTENT WITH THIS REQUIREMENT SHOULD BE SUBMITTED TO THE LOCAL HEALTH JURISDICTION FOR PRIOR APPROVAL OF USE. LAY IN CEILING TILE MUST BE NON-POROUS AND NON-FISSURED PANELS ONLY. A CORROSION RESISTANT SUSPENSION SYSTEM IS RECOMMENDED.
3. CONSTRUCT PARTITION WALLS BETWEEN KITCHEN AREAS AND PUBLIC AREAS FOR MAXIMUM SOUND CONTROL IF APPLICABLE.
4. FLOORS IN FOOD PREPARATION, FOOD STORAGE, UTENSIL WASHING AND JANITORIAL AREAS SHALL MEET HEALTH DEPARTMENT REQUIREMENTS AND SHALL HAVE COVED BASE.
5. THERE SHALL BE A MINIMUM 50 FOOT-CANDELS OF LIGHT ON ALL WORKING SURFACES AND EQUIPMENT IN FOOD PREPARATION AND UTENSIL WASHING AREAS; INCLUDING WORK SURFACES OF EQUIPMENT LOCATED UNDER EXHAUST HOODS. WALK-IN COOLER/FREEZERS AND DRY STORAGE ROOMS TO HAVE A MINIMUM OF 20 FOOT CANDLE POWER.
6. LAMP GUARDS OR SLEEVES, SOLID PLASTIC LENSES OR APPROVED COATED BULBS SHALL BE USED ON ALL LIGHTING IN EQUIPMENT OR OVER FOOD CONTACT AREAS.
7. BACKSPASHES WHEN SEALED ON EQUIPMENT SHALL BE SEALED TO WALLS WITH SILICONE SEALANT IN A NEAT WORKMANLIKE MANNER. SEALANT MUST BE APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF).
8. SPACE BETWEEN ALL EQUIPMENT AND WALL, CEILING, FLOORS AND ADJOINING UNITS NOT PORTABLE AND HAVING ENCLOSED BODIES SHALL BE COMPLETELY SEALED AGAINST ENTRANCE OF FOOD PARTICLES OR VERMIN BY MEANS OF SILICONE SEALANT OR TRIM STRIPS.
9. EQUIPMENT PLACED ON TABLES AND COUNTERS SHALL BE READILY MOVABLE, COMPLETELY SEALED TO WORK SURFACE, OR MOUNTED ON LEGS NO LESS THAN 4 INCHES IN HEIGHT IF EQUIPMENT WEIGHS MORE THAN 75 POUNDS.
10. ALL FLOOR MOUNTED EQUIPMENT SHALL BE INSTALLED ON EITHER A MINIMUM OF 6 INCH HIGH STAINLESS STEEL LEGS WITH ADJUSTABLE SANITARY FEET, MOUNTED ON CASTERS, OR RESTING ON 6 INCH HIGH RAISED CURBS.
11. DISHWASHERS OR CHEMICAL SANITIZING MACHINE SHALL BE DESIGNED WITH A HIGH TEMPERATURE FINAL RINSE OF 180°F AND WASH CYCLE TEMPERATURES OF 160°F.
12. ALL REFRIGERATION EQUIPMENT SHALL HAVE THERMOMETERS WHICH ARE EASILY READABLE, IN PROPER WORKING CONDITION, AND ACCURATE WITHIN A RANGE OF PLUS OR MINUS 2°.
13. VACUUM BREAKERS, WHEN REQUIRED, SHALL BE A MINIMUM OF 6 INCHES ABOVE THE FLOOD LEVEL RIM WITH NO SHUT OFF DEVICES BEYOND THE DISCHARGE OF THE VACUUM BREAKER.
14. HANDWASHING FACILITIES ARE REQUIRED FOR FOOD PREPARATION, COOKING, SERVING AND UTENSIL WASHING AREAS AND WILL BE SHOWN ON THE FOODSERVICE EQUIPMENT PLANS.
15. NEW EXHAUST HOODS SHALL BE CONSTRUCTED TO MEET THE LOCAL BUILDING CODES AND MEET THE FOLLOWING STANDARDS: NSF, UL AND NFPA-96. NEW HOODS ARE TO BEAR UL CLASSIFIED LABEL WITHOUT DAMPERS IN EXHAUST VENT COLLARS. HOODS SHALL BE DESIGNED WITH A MINIMUM OF 6 INCH OVERHANG AT ALL EXPOSED COOKING AREAS.
16. THE EXHAUST HOODS AND EXHAUST DUCT SYSTEMS SHALL BE PROVIDED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM. THE FIRE SUPPRESSION SYSTEM SHALL BE ENGINEERED, SIZED AND INSTALLED IN ACCORDANCE WITH UL 300, NFPA AND BUILDING CODES.

GENERAL NOTES

ALL ELECTRICAL AND MECHANICAL OUTLET STUB-OUT HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER LINE OF OUTLET. (EXAMPLE: 1/2" C/W/ +2") ALL OUTLETS NOTED AS "STUB-UP" TO BE BROUGHT ABOVE FINISHED FLOOR AT LOCATION SHOWN. CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.

ALL HORIZONTAL DIMENSIONS SHOWN ARE TAKEN FROM FINISHED WALL TO CENTER LINE OF OUTLET OR FROM CENTER OF OUTLET TO CENTER LINE OF OUTLET, UNLESS OTHERWISE NOTED ON PLANS OR DETAILED.

CONTRACTOR SHALL PROVIDE AND INSTALL SUITABLE BLOCKING OR BACKING IN WALLS AND CEILINGS TO SUPPORT FIXTURES, EQUIPMENT AND CANOPIES.

CONTRACTOR TO CUT OR PROVIDE HOLES THROUGH CEILINGS, ROOFS AND WALL FOR DUCTS, ETC. IN ACCORDANCE WITH LOCAL BUILDING CODES AND IN ACCORDANCE WITH DUCT SIZES SPECIFIED.

THE PLANS PROVIDED ARE FOR THE SOLE PURPOSE OF INDICATING OUTLET LOCATIONS & EQUIPMENT REQUIREMENTS. THE PLANS DO NOT RELIEVE THE GENERAL CONTRACTOR & SUB-CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH APPLICABLE CODES.

LAST DATED REVISIONS VOID ALL PREVIOUS DRAWINGS.

PLUMBING GENERAL REQUIREMENTS (DIVISION 22)

1. FOODSERVICE DRAWINGS INDICATE PLUMBING ROUGH-IN/CONNECTIONS POINTS FOR EQUIPMENT SPECIFIED UNDER THE KITCHEN EQUIPMENT (SECTION 114000) CONTRACT. ADDITIONAL PLUMBING REQUIREMENTS ARE NOT INDICATED ON FOODSERVICE DRAWINGS.
2. ROUGH-INS, PIPING, AND FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT SHALL BE COMPLETED BY PLUMBING CONTRACTOR (DIVISION 22).
3. FLOOR DRAINS ARE INDICATED FOR KITCHEN EQUIPMENT. ADDITIONAL DRAINS MAY BE REQUIRED UNDER DIVISION 22.
4. PLUMBING CONTRACTOR (DIVISION 22) SHALL SUPPORT ALL SUPPLY AND DRAIN LINES TIGHT AGAINST UNDERSIDE OF EQUIPMENT TO ALLOW SPACE FOR CLEANING.
5. ALL DIMENSIONS ARE SHOWN FROM FINISHED FLOORS, FINISHED WALLS, AND/OR COLUMN CENTERLINES TO CENTER OF ROUGH-IN.
6. KITCHEN EQUIPMENT CONTRACTOR (SECTION 114000) SHALL FURNISH ALL FAUCETS, BASKET WASTES, TWIST/LEVER WASTES, GAS HOSES, & SAFETY REGULATORS AS SPECIFIED. PLUMBING CONTRACTOR (DIVISION 22) SHALL INSTALL ALL FAUCETS, BASKET WASTES, TWIST/LEVER WASTES, GAS HOSES, & SAFETY REGULATORS WITH THE NECESSARY COMPONENTS AND SUPPLY NIPPLES TO MAKE FINAL CONNECTIONS; INCLUDING THE INSTALLATION OF COMPONENTS NOT SHOWN OR SHIPPED LOOSE.
7. ALL PLUMBING LINES TO BE CONCEALED WITHIN WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE.

PLUMBING NOTES (DIVISION 22)

1. INSTALL KEC (SECTION 114000) FURNISHED FAUCET(S).
2. INSTALL KEC (SECTION 114000) FURNISHED TWIST WASTE/LEVER(S).
3. INSTALL KEC (SECTION 114000) FURNISHED QUICK DISCONNECT(S) & RESTRAINING DEVICE(S) PER MANUFACTURER'S RECOMMENDATIONS.
4. INSTALL KEC (SECTION 114000) FURNISHED FLOOR TROUGH(S).
5. EXTEND AND/OR CONNECT DRAIN(S).
6. MANIFOLD DRAINS TO SINGLE CONNECTION.
7. FURNISH AND INSTALL BALL VALVE IN DRAIN LINE. VALVE TO BE IN EASILY ACCESSIBLE LOCATION.
8. INSTALL KEC (SECTION 114000) FURNISHED WATER FILTER. PIPING FROM FILTER OUTLET TO POINTS OF USE SHALL BE CONCEALED WITHIN WALLS AND CEILINGS. EXTEND DRAIN(S) TO FLOOR SINK/FLOOR DRAIN.
9. INSTALL KEC (SECTION 114000) FURNISHED SOLENOID VALVE(S), VACUUM BREAKER(S), FLOW CONTROL(S), PRESSURE REGULATOR(S), AND WATER INLET(S).
10. CONNECT 180°F HOT WATER SUPPLY FROM BOOSTER HEATER OUTLET TO DISHWASHER INLET. INSTALL TEMPERATURE/PRESSURE GAUGE(S) AND PRESSURE REGULATOR. CONNECT BOOSTER HEATER DRAIN(S) IN HARD COPPER TO FLOOR SINK/FLOOR DRAIN.
11. INSTALL KEC (SECTION 114000) FURNISHED DRAIN LINE TEMPERING KIT PER MANUFACTURER'S RECOMMENDATIONS.
12. CONNECT DRAIN(S) WITH REFRIGERATION GRADE HARD COPPER USING 1" STANDOFFS. "P" TRAP DRAIN OUTSIDE WALK-IN COMPARTMENT(S). PROVIDE AND INSTALL SLEEVES THRU WALK-IN AND BUILDING WALLS FOR DRAIN LINE(S). FOAM & CAULK AROUND SLEEVES AND DRAIN LINES. WRAP WITH DRAIN LINE HEATER AND INSULATION WHERE SUBJECT TO FREEZING TEMPERATURES.
13. INSTALL KEC (SECTION 114000) FURNISHED HOSE REEL, MIXING VALVE, CHROME FITTINGS, VACUUM BREAKER, AND CONTROL VALVE.
14. INSTALL KEC (SECTION 114000) FURNISHED FIRE SUPPRESSION SYSTEM GAS SHUT OFF VALVE. MUST BE ACCESSIBLE AND NOT CONCEALED IN WALL OR CEILING.
15. PROVIDE GRAY WATER AND SLURRY PIPING TO AND FROM (SECTION 114000) FURNISHED PULPER, TROUGH, AND WATER EXTRACTOR. INSTALL KEC (SECTION 114000) FURNISHED TROUGH INLET NOZZLES AND PROVIDE SHUT OFF VALVE AT EACH NOZZLE.
16. VERIFY UTILITIES FOR EXISTING & NIC EQUIPMENT.

PLUMBING NOTES

CONTRACTOR TO VERIFY RUNNING OF LINES OR DRAINS THROUGH FIXTURES SO AS NOT TO BLOCK SCRAP CAN OR STORAGE SPACE

CONTRACTOR TO PROVIDE REQUIRED PRESSURE REGULATING VALVES FOR HOT WATER LINE TO DISHWASHER RINSE CONNECTION AND ALL OTHER EQUIPMENT REQUIRING PRESSURE REGULATORS.

SEE PLUMBING SPECIFICATIONS AND PLANS FOR FURTHER INFORMATION.

CONTRACTOR TO PROVIDE ALL INDIRECT DRAINS FROM EQUIPMENT TO FLOOR SINKS.

BAR EQUIPMENT INDIRECT DRAINS TO BE MANIFOLDED AND RUN TO FLOOR SINK TO REDUCE CONGESTION AT THE FLOOR SINKS WHERE ALLOWABLE BY LOCAL CODES.

ELECTRICAL GENRAL REQUIREMENTS (DIVISION 26)

1. FOODSERVICE DRAWINGS INDICATE ELECTRICAL ROUGH-IN/CONNECTIONS POINTS FOR EQUIPMENT SPECIFIED UNDER THE KITCHEN EQUIPMENT (SECTION 114000) OF THE CONTRACT. ADDITIONAL ELECTRICAL REQUIREMENTS ARE NOT INDICATED ON FOODSERVICE DRAWINGS.
2. ROUGH-INS, INTERWIRING, AND FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT SHALL BE COMPLETED BY ELECTRICAL CONTRACTOR (DIVISION 26).
3. PROVIDE DEDICATED CIRCUITS FOR FOODSERVICE EQUIPMENT AS REQUIRED.
4. ALL DIMENSIONS ARE SHOWN FROM FINISHED FLOORS, FINISHED WALLS, AND/OR COLUMN CENTERLINES TO CENTER OF ROUGH-IN.
5. ELECTRICAL CONTRACTOR (DIVISION 26) SHALL FURNISH AND INSTALL ALL NECESSARY COMPONENTS TO MAKE FINAL CONNECTIONS; INCLUDING THE INSTALLATION OF COMPONENTS NOT SHOWN OR SHIPPED LOOSE.
6. ALL ELECTRICAL CONDUIT TO BE CONCEALED WITHIN WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE.
7. ELECTRICAL CONTRACTOR (DIVISION 26) TO PROVIDE GFI RECEPTACLES WHERE REQUIRED.

ELECTRICAL NOTES (DIVISION 26)

1. FURNISH AND INSTALL CORD AND PLUG SET(S).
2. INSTALL KEC (SECTION 114000) FURNISHED CORD AND PLUG SET(S).
3. FURNISH AND INSTALL DEVICE & COVER IN KEC (SECTION 114000) FURNISHED JUNCTION BOX.
4. CONNECT TO JUNCTION BOX, DEVICE, & COVER FURNISHED BY KEC (SECTION 114000).
5. CONNECT WITH LIQUID TIGHT CONDUIT FROM JUNCTION BOX TO EQUIPMENT/DEVICES.
6. CONNECT WITH LIQUID TIGHT CONDUIT THRU CONTROL TO EQUIPMENT.
7. CONNECT THRU DISPOSER CONTROL TO SOLENOID VALVE AND MOTOR.
8. FURNISH AND INSTALL WIRING TO KEC (SECTION 114000) FURNISHED REMOTE CONTROL SWITCHES.
9. FURNISH AND INSTALL SWITCH. CONNECT TO LIGHTS FURNISHED AND INSTALLED BY KEC (SECTION 114000).
10. CONNECT POWER SUPPLY TO KEC (SECTION 114000) FURNISHED LOAD CENTER. COUNTER SHALL BE PREWIRED AND SHIPPED IN SECTIONS. CONNECT BETWEEN SECTIONS.
11. CONNECT TO KEC (SECTION 114000) FURNISHED JUNCTION BOX ABOVE WALK-IN DOOR. LIGHT FIXTURE LOCATED ADJACENT/ABOVE DOOR IS PREWIRED TO FACTORY MOUNTED LIGHT SWITCH. MOUNT ADDITIONAL SECTION 114000 FURNISHED LIGHTS WHERE INDICATED AND CONNECT TO SWITCH. ALL CONDUIT SHALL BE EXPOSED ON TOP OF THE WALK-IN. NO EXPOSED CONDUIT WILL BE ALLOWED INSIDE THE WALK-IN.
12. FOAM & SEAL INSIDE AND OUTSIDE OF CONDUIT PENETRATIONS THRU WALK-IN.
13. CONNECT KEC (SECTION 114000) FURNISHED TEMPERATURE ALARM SYSTEM. COORDINATE WITH BUILDING SYSTEMS.
14. CONNECT TO KEC (SECTION 114000) FURNISHED FUSED DISCONNECT AT CONDENSING UNIT.
15. INSTALL KEC (SECTION 114000) FURNISHED DEFROST TIMER. CONNECT THRU TIMER TO EVAPORATOR COIL.
16. CONNECT FROM KEC (SECTION 114000) FURNISHED CONDENSING UNIT, THRU DEFROST TIMER, TO EVAPORATOR COIL.
17. PROVIDE NEMA RECEPTACLE WITH WEATHER COVER BEHIND FREEZER EVAPORATOR COIL FOR DRAIN LINE HEATER.
18. CONNECT EXHAUST FAN THRU FAN CONTROL CONTACTS IN DISHWASHER.
19. CONNECT TABLE LIMIT SWITCH TO DRY CONTACT ON KEC (SECTION 11400) FURNISHED DISHWACHINE.
20. CONNECT DRAIN WATER TEMPERING DEVICE PER MANUFACTURER'S RECOMMENDATIONS.
21. CONNECT THRU KEC (SECTION 114000) FURNISHED LIGHT SWITCH MOUNTED IN FACE OF HOOD OR HOOD CONTROL CABINET TO LIGHT FIXTURES IN HOOD(S). INTERWIRE LIGHT FIXTURES BETWEEN HOOD SECTIONS AS REQUIRED.
22. CONNECT THRU KEC (SECTION 114000) FURNISHED FAN CONTROL SWITCH MOUNTED IN FACE OF HOOD OR HOOD CONTROL CABINET TO EXHAUST FAN(S)/MAKE-UP AIR UNIT(S). INTERWIRE THRU MOTOR STARTER(S)/VARIABLE FREQUENCY DRIVE(S) AND OVERLOAD PROTECTION DEVICE(S) AS REQUIRED.
23. CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICROSWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL TO SHUNT TRIP BREAKER(S) FOR SHUT DOWN OF POWER TO ALL ELECTRICAL DEVICES UNDER HOOD(S) AND 18" OUTSIDE PERIMETER OF HOOD(S). CONNECT FROM MICROSWITCH TO DIVISION 26 FURNISHED RELAY(S) OR SWITCHES FOR SHUT DOWN/CONTROL OF HOOD LIGHTS, MAKE-UP AIR FAN, AND FIRE ALARM SYSTEM.
24. CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICROSWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL THRU MANUAL RESET RELAY TO ELECTRIC GAS VALVE.
25. PROVIDE CONCEALED CONDUIT AND RECESSED OCTAGONAL JUNCTION BOX IN WALL AT 42"-48" AFF FOR REMOTE MANUAL PULL STATION(S). COORDINATE LOCATION(S) WITH FIRE SUPPRESSION SYSTEM CONTRACTOR AND AUTHORITIES HAVING JURISDICTION PRIOR TO ROUGH-IN.
26. VERIFY UTILITIES FOR EXISTING/NIC EQUIPMENT.
27. INSTALL 3/4" EMPTY CONDUIT AND JUNCTION BOX FOR DATA CONNECTION. VERIFY EXACT REQUIREMENTS AND TERMINATION POINTS PRIOR TO ROUGH-IN.
28. VERIFY AND PROVIDE UTILITIES FOR EXISTING/NIC EQUIPMENT PRIOR TO ROUGH-IN.

ELECTRICAL NOTES

ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON THESE PLANS ARE FOR FIXTURES AND EQUIPMENT AS SHOWN ON EQUIPMENT PLAN ONLY. SEE ELECTRICAL PLANS FOR FURTHER BUILDING ELECTRICAL REQUIREMENTS.

SEE ELECTRICAL SPECIFICATIONS AND PLANS FOR FURTHER INFORMATION.

ALL CONDUIT TO BE RUN ABOVE WALK-IN COOLERS WITH PENETRATIONS INTO COOLERS SEALED. P.V.C. CONDUIT TO BE USED TO REDUCE THERMAL CONDUCTION.

WALL MOUNTED SWITCHES, OUTLETS, AND JUNCTION BOXES TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CORD & PLUG FURNISHED W/UNIT UNLESS NOTED BY E.C.

E.C. TO SUPPLY C&P FOR ITEMS # 49, 51, 67, 75, AND OTHER EQUIPMENT AS NOTED.

NOTE: ALL EQUIPMENT SUPPLIED WITH CORD AND CAPS TO BE PROVIDED WITH SPRING HOLDERS TO PREVENT CORDS FROM CONTACT WITH FLOOR

WALK-IN & ICE MACHINE REFRIGERATION GENERAL REQUIREMENTS

1. SEE WALK-IN DETAILS ON SHEET FS3.9.
2. REFRIGERATION CONTRACTOR UNDER KEC (SECTION 114000) SHALL CONNECT DRAIN(S) WITH REFRIGERATION GRADE HARD COPPER USING 1" STANDOFFS. "P" TRAP DRAIN OUTSIDE WALK-IN COMPARTMENT(S). PROVIDE AND INSTALL SLEEVES THRU WALK-IN AND BUILDING WALLS FOR DRAIN LINE(S). FOAM & CAULK AROUND SLEEVES AND DRAIN LINES. WRAP WITH DRAIN LINE HEATER AND INSULATION WHERE SUBJECT TO FREEZING TEMPERATURES.
3. OVERALL HEIGHT OF WALK-IN SHALL BE APPROX. 9' - 0" AFF FROM FINISHED FLOOR TO TOP OF WALK-IN.
4. KEC (SECTION 114000) SHALL FURNISH AND INSTALL METAL CLOSURE PANELS & TRIM TO MATCH WALK-IN FACING WHERE WALK-IN ABUTS BUILDING WALLS AND CEILING. REFER TO DETAIL ON SHEET QF700.
5. BUILDING FLOOR UNDER WALK-IN MUST BE LEVEL WITHIN PLUS OR MINUS 1/8".
6. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL ROOF PAD FOR KEC (SECTION 114000) FURNISHED REFRIGERATION RACK.
7. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL CONCRETE PAD FOR KEC (SECTION 114000) FURNISHED REFRIGERATION RACK/CONDENSING UNITS.
8. GC (DIVISION 7) TO INSTALL KEC (SECTION 114000) FURNISHED EQUIPMENT RAILS AND PIPE CURBS FOR ROOFTOP CONDENSING UNITS.
9. REFRIGERATION CONTRACTOR UNDER KEC (SECTION 114000) SHALL FURNISH REFRIGERATION PIPING AND INSTALL CONDENSERS, CONDENSING UNITS, AND EVAPORATOR COILS. REFRIGERATION CONTRACTOR TO CHARGE, START-UP, RUN, AND CHECK FOR PROPER OPERATING TEMPERATURES.
10. KEC (SECTION 114000) FURNISHED REMOTE CONDENSERS/CONDENSING UNITS FOR ICE MACHINES SHALL BE INSTALLED ON BUILDING ROOF DIRECTLY ABOVE ICE MACHINE.
11. REFRIGERATION CONTRACTOR UNDER KEC (SECTION 114000) SHALL INSTALL PRECHARGED REFRIGERATION LINE SETS FOR ICE MACHINES.

REFRIGERATION NOTES

ALL CONDUIT TO BE PVC OR METAL. DIAMETER AS INDICATED ON PLAN. MINIMUM BENDING RADIUS TO BE 24". FACTORY "L'S" WILL NOT BE PERMITTED.

CONTRACTOR TO PROVIDE 5-WIRE SERVICE FROM FREEZER AND 28" BLOWER COILS FOR AUTO, DEFROST SYSTEM TO STOP COMPRESSOR BLOWER COIL FAN & START HEATERS IN BLOWER COIL.

CONDUIT RUNS ARE SHOWN SCHEMATICALLY EXACT LOCATION AND ROUTING TO BE DETERMINED IN FIELD TO SUIT JOB CONDITIONS.

REFRIGERATION LINES FOR WALK-IN REFRIGERATOR TO RUN OVERHEAD & DROP DOWN TO COMPRESSORS. REFRIGERATION LINES ARE TO BE INSULATED AND PROTECTED.

SLEEVES TO BE PROVIDED ON ALL WALLS REQUIRING REFRIGERATION LINE PASS.

REFRIGERATION CONTRACTOR TO WRAP COIL CONDENSATE DRAIN TUBING WITH HEATER CABLE TO PREVENT FREEZING (AT FREEZER ONLY).

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PROJECT NUMBER:
DCH22007

CLIENT:

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PHONE: 407.245.4564
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Cheddar's
SCRATCH KITCHEN

Issue Date: 01/23/23

REVISION INFORMATION

1 04.04.2023

CITY COMMENTS

2 04.05.2023

COORDINATION COMMENTS

Restaurant #: 2215

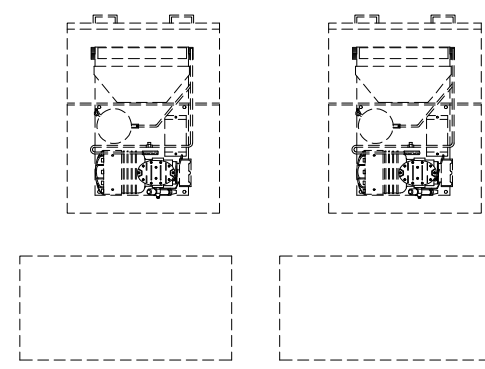
CHEDDAR'S
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

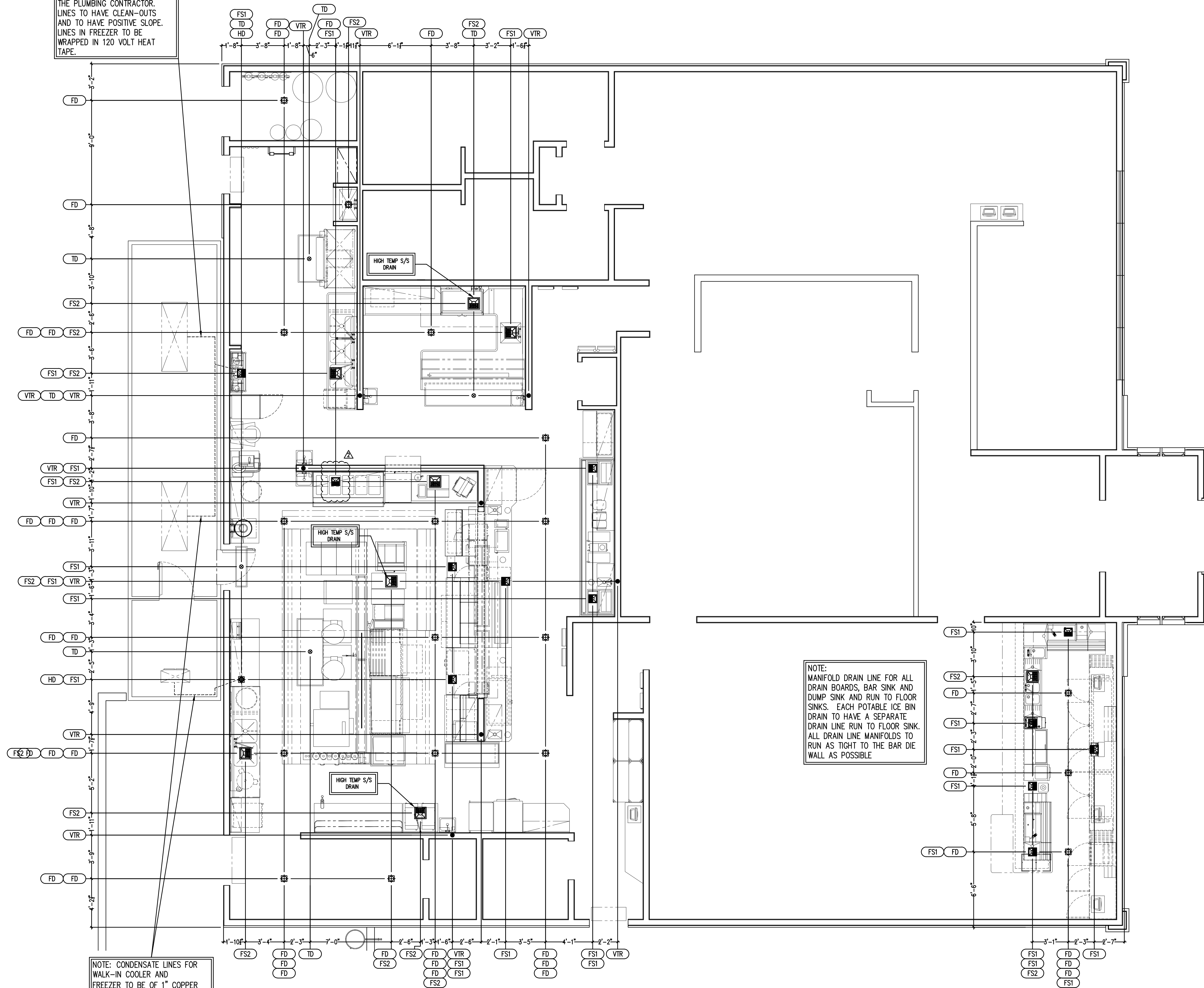
RIVERVIEW, FL

FOOD SERVICE
GENERAL AND MEP
NOTES

FS-2.2



NOTE: CONDENSATE LINES FOR WALK-IN COOLER AND FREEZER TO BE OF 1" COPPER SUPPLIED AND INSTALLED BY THE PLUMBING CONTRACTOR. LINES TO HAVE CLEAN-OUTS AND TO HAVE POSITIVE SLOPE. LINES IN FREEZER TO BE WRAPPED IN 120 VOLT HEAT TAPE.



NOTE: CONDENSATE LINES FOR WALK-IN COOLER AND FREEZER TO BE OF 1" COPPER SUPPLIED AND INSTALLED BY THE PLUMBING CONTRACTOR. LINES TO HAVE CLEAN-OUTS AND TO HAVE POSITIVE SLOPE. LINES IN FREEZER TO BE WRAPPED IN 120 VOLT HEAT TAPE.

DRAIN SYMBOL KEY

- FD - FLOOR DRAIN (INDIRECT - AREA CLEAN & CONDENSATE)
- HD - 4" HUB DRAIN (INDIRECT - CONDENSATE)
- FS1 - 8" X 8" FLOOR SINK (INDIRECT - GENERAL PURPOSE)
- FS2 - 12" X 12" FLOOR SINK (INDIRECT - GENERAL PURPOSE)
- VTR - 2" WASTE (DIRECT CONNECTED VENTED WASTE)
- TD - 4" WASTE (INDIRECT - FLOOR TROUGHS 5" BELOW SLAB)
- TD1 - 3" 6" WIDE X 5" DEEP WASTE MADE OF POLYESTER POLYMER CONCRETE (AT BAR)

GENERAL NOTES

- ALL DRAIN LOCATION DIMENSIONS ARE TO THE BUILDING STRUCTURE.
- ALL DRAIN LINES FROM FOOD SERVICE EQUIP. TO FLOOR SINKS ARE SUPPLIED AND INSTALLED BY THE PLUMBING CONTRACTOR. ALL DRAIN LINES ARE TO BE COPPER.
- ALL AREA CLEAN FLOOR DRAINS ARE TO BE SET AT 3/4" BELOW FINISHED FLOOR GRADE.

PLUMBING ROUGH-IN NOTES

THIS ROUGH-IN DRAWING INDICATES THE LOCATION OF ALL UTILITIES REQUIRED PLUS RECOMMENDED MINIMUM AREA FLOOR DRAINS. UTILITY REQUIREMENTS AND DIMENSIONS ARE BASED UPON THE EQUIPMENT SPECIFIED.

ALL PLUMBING LINES SHALL BE EXTENDED THROUGH AND OUT OF THE BUILDING WALLS WHERE POSSIBLE.

ALL PLUMBING LINES SHALL BE EXTENDED AND INTERCONNECTED TO ALL CONNECTION POINTS ON THE EQUIPMENT BY THE G.C.

ALL INDIRECT WASTE AND CONDENSATE DRAINS SHALL BE EXTENDED FROM EQUIPMENT FITTING TO APPROPRIATE DRAIN BY THE G.C.
ONLY COMPONENTS SUPPLIED STANDARD BY THE MANUFACTURER ARE INCLUDED. SHUT-OFFS, PRESSURE REGULATORS, VACUUM BREAKERS, ETC., SHALL BE BY THE G.C.

PLUMBING CONTRACTOR IS RESPONSIBLE FOR CHECKING THE SEALS AROUND ALL PENETRATION TO THE WALK-IN FREEZER AND/OR COOLER PANELS WHILE INSTALLING CONDENSATE LINES.

NOTE: MANIFOLD DRAIN LINE FOR ALL DRAIN SINKS, BAR SINK AND DUMP SINK AND RUN TO FLOOR SINKS. EACH POTABLE ICE BIN DRAIN LINE RUN TO FLOOR SINK. ALL DRAIN LINE MANIFOLDS TO RUN AS TIGHT TO THE BAR DIE WALL AS POSSIBLE

NOTE: ALL AREA CLEAN FLOOR DRAINS ARE TO BE SET AT 3/4" BELOW FINISHED FLOOR

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Cheddar's
SCRATCH KITCHEN

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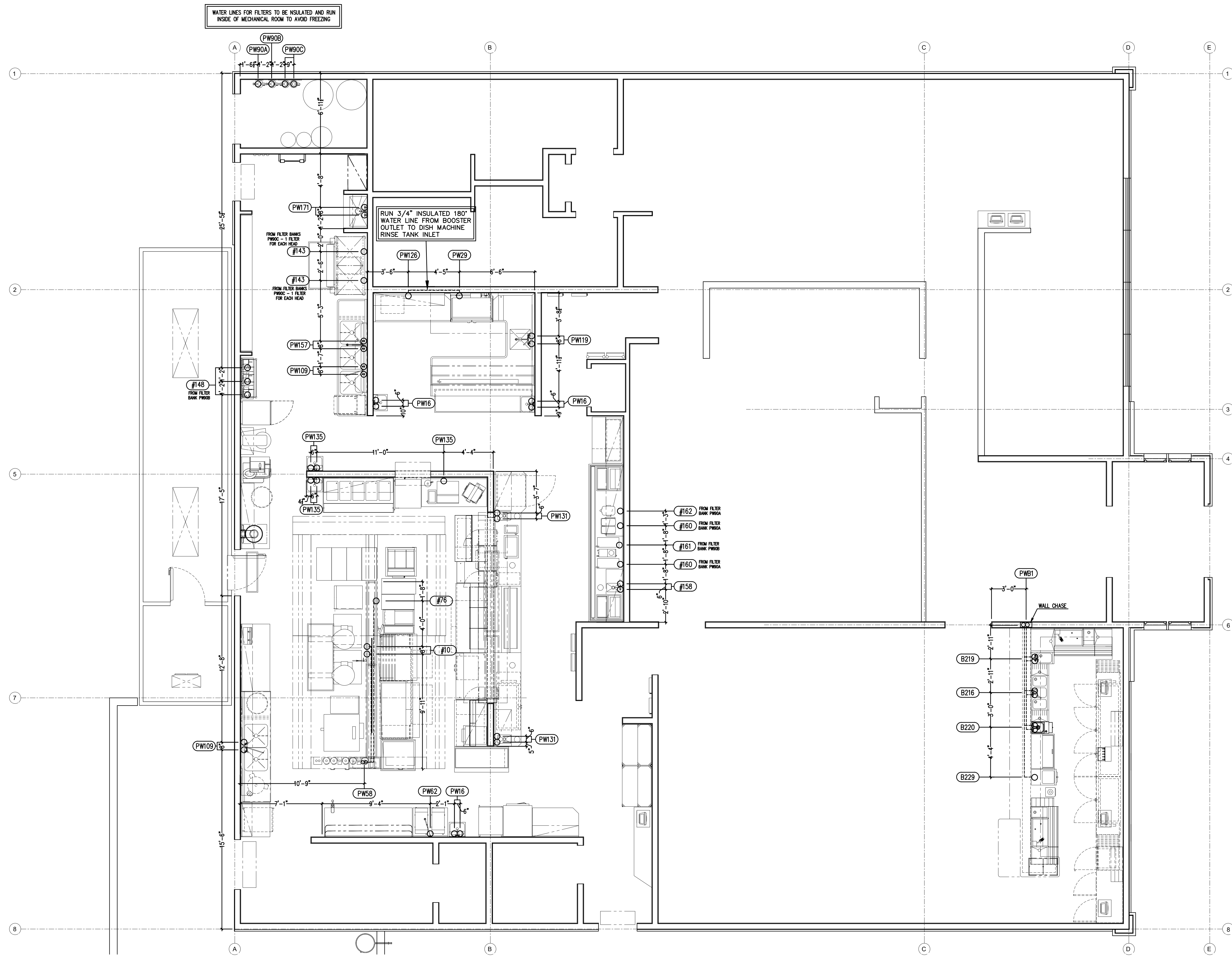
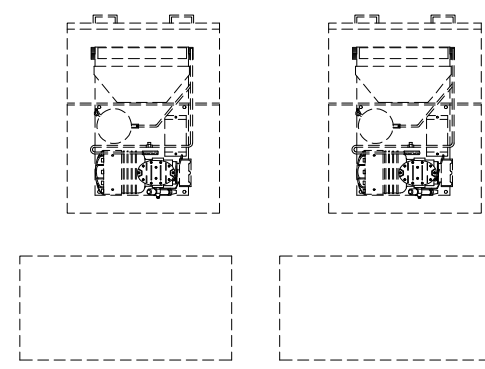
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RIVERVIEW, FL

FOOD SERVICE
DRAIN LOCATIONS

FS-3.1



WATER CONNECTION SCHEDULE

PW16 (5 EACH) 1/2" H&CW 22" AFF. (HAND SINK)
PW29 3/4" HW (140° DEGREES MIN.) 60" AFF. (DISHMACHINE)
PW58 1" H&CW DOWN FROM CEILING THRU CHASE - CONNECT TO EQUIPMENT AS LISTED BELOW
#10 - 1/2" H&CW 36" AFF. (KETTLE AND POT FILLER FAUCET)
#76 - 1/2" CW 18" AFF. (PASTA COOKER)
PW62 1/2" HW 54" AFF. (POT FILLER FAUCET)

★ NOTE: ALL WATER LINES BRANCHING FROM FILTERS TO EQUIPMENT TO BE RUN ABOVE CEILING.

PW90A AND 1/2" CW (SOFTENED WATER), 90" AFF. - REDUCE AND CONNECT TO FILTER SYSTEM AND BRANCH TO THE FOLLOWING:
ITEM #160 - (2 EACH) ICED TEA BREWER @ 48" AFF.
ITEM #162 - LEMONADE DISPENSER @ 48" AFF.

PW109 (3 EACH) 1/2" H&CW 12" AFF. (3 COMP FAUCETS)
PW119 1/2" H&CW 12" AFF. (PRE-RINSE FAUCET)
PW131 1/2" H&CW 18" AFF. (HAND SINK IN EXPO COUNTER)
PW157 1/2" H&CW 12" AFF. (POT WASH FAUCET)
PW158 1/2" H&CW 18" AFF. (DUMP SINK)
PW126 3/4" CW 18" AFF. (BOOSTER HEATER)
PW171 1/2" H&CW 36" AFF. (MOP SINK FAUCET)

★ NOTE: ALL WATER LINES BRANCHING FROM FILTERS TO EQUIPMENT TO BE RUN ABOVE CEILING.

PW90B 1/2" I.D. CW (UNSOFTENED WATER), 90" AFF. - REDUCE AND CONNECT TO FILTER SYSTEM AND BRANCH TO THE FOLLOWING:
ITEM #161 - COFFEE BREWERS @ 48" AFF.
ITEM #148 - (4 EACH) CARBONATORS @ 84" AFF.

★ NOTE: ALL WATER LINES BRANCHING FROM FILTERS TO EQUIPMENT TO BE RUN ABOVE CEILING.

PW90C (2 EACH) 1/2" CW (UNSOFTENED WATER), 90" AFF. - CONNECT TO INDIVIDUAL FILTERS AND BRANCH TO ITEM #143 - (2 EACH) ICE MAKER HEADS

PW135 1/2" CW 12" AFF. (DIPPER WELL)
PWB1 3/4" H&CW DOWN FROM CEILING, RUN THRU BAR DIE WALL @ 12" AFF., REDUCE AS REQUIRED AND CONNECT TO:
ITEM #B216 - BAR SINK
ITEM #B219 - 12" DUMP SINK
ITEM #B220 - UNDERBAR HAND SINK
ITEM #B229 - FROZEN BEVERAGE MACHINE (CW ONLY)

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6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75039
TEL: 972.870.1288
WWW.IDSTUDIO4.COM
PROJECT NUMBER:
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4564
www.darden.com

Cheddar's
SCRATCH KITCHEN

Issue Date: 01/23/23

REVISION INFORMATION

1 04.04.2023

CITY COMMENTS

2 04.05.2023

COORDINATION COMMENTS

Restaurant #: 2215

CHEDDAR'S
SCRATCH KITCHEN
PROTO 18

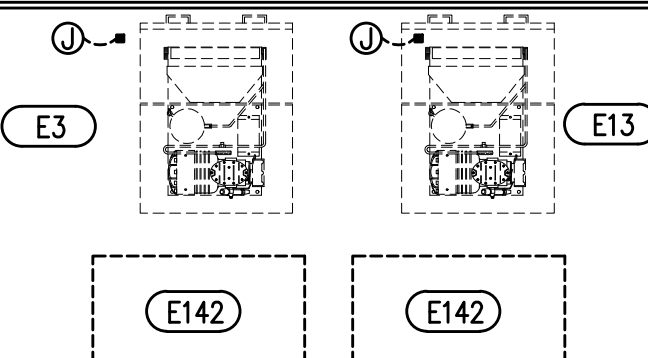
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

FOOD SERVICE
WATER
REQUIREMENT PLAN

FS-3.2

REMOTE COMPRESSORS LOCATED BY ARCHITECT



NOTE:
VERIFY WITH THE WALK IN MANUFACTURER'S SHOP
DRAWINGS FOR THE COOLER AND FREEZER LIGHT
FIXTURE LAYOUT AND LIGHT FIXTURE
QUANTITIES, WALK IN SHOPS TAKE PRECEDENT.

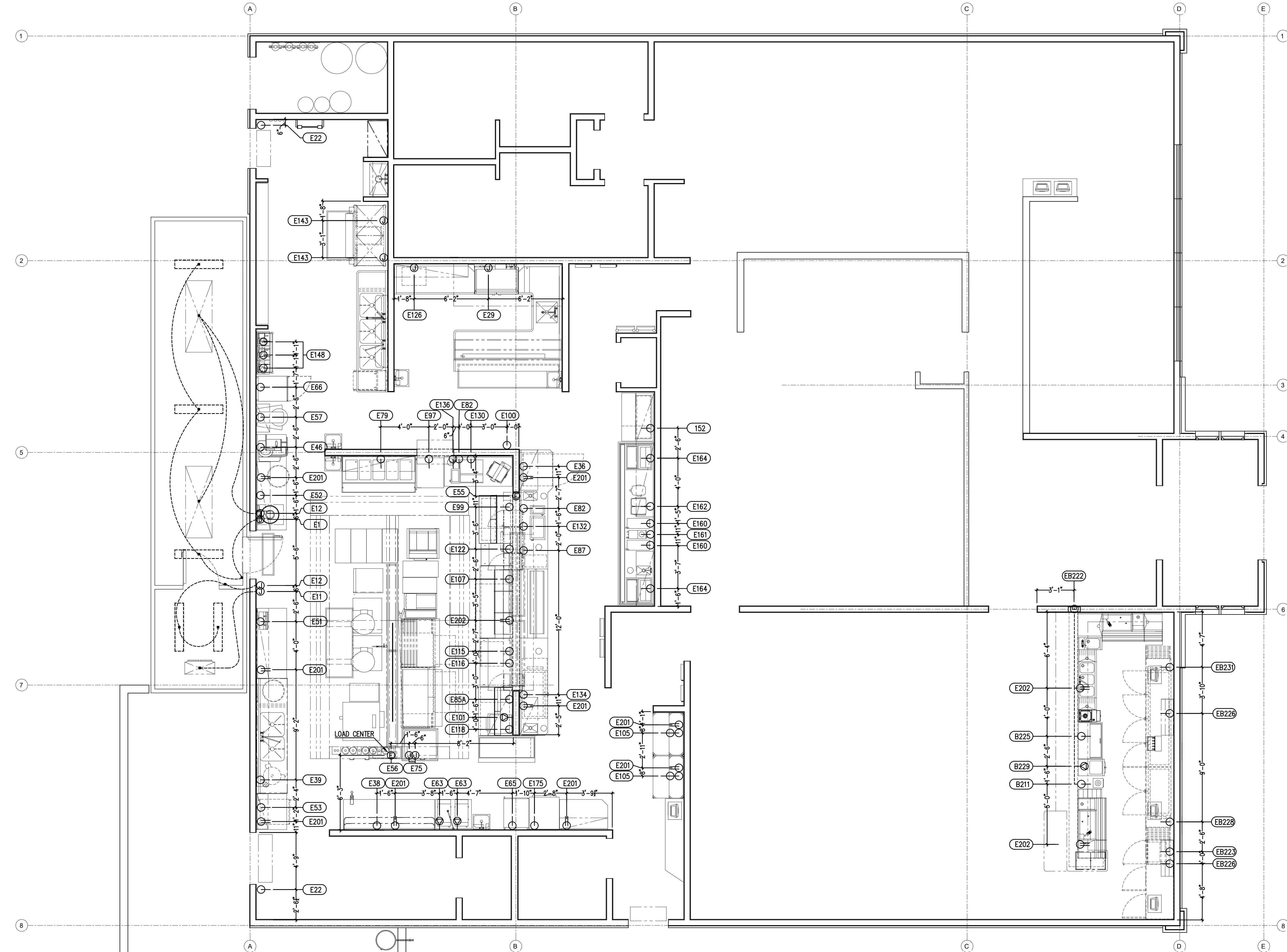
NOTE:
VERIFY WITH THE WALK IN MANUFACTURER'S SHOP
DRAWINGS FOR THE COOLER AND FREEZER LIGHT
FIXTURE LAYOUT AND LIGHT FIXTURE
QUANTITIES, WALK IN SHOPS TAKE PRECEDENT.

NOTE:
ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR
CHECKING THE SEALS AROUND ALL PENETRATION
TO THE WALK-IN FREEZER AND/OR COOLER
PANELS WHILE INSTALLING THE LIGHTS.
VERIFY WALK-IN LIGHT LOCATIONS WITH
MANUFACTURER'S SHOP DRAWINGS

NOTE:
LOCATIONS FOR REQUIRED DISCONNECTS
TO BE LOCATED BY THE ARCHITECT,
SUPPLIED AND INSTALLED BY THE
ELECTRICAL CONTRACTOR IN ACCORDANCE
WITH ALL LOCAL CODES. REFER TO
ARCHITECTURAL DETAILS.

NOTE:
ALL OUTLET RECEPTACLES TO BE GFI AND
FURNISHED WITH WATER PROOF COVERS.

ELECTRICAL CONTRACTOR TO PROVIDE A 1"
ELECTRICAL CONDUIT TO THE CONTROL WIRING
BETWEEN THE ICE MAKER HEADS AND THE
REMOTE CONDENSERS



ELECTRICAL ROUGH-IN SCHEDULE

- E1 120/1PH 20A 112" AFF. (WALK-IN COOLER/ BEER COOLER)
E2 (3 EACH) 120/1PH 1.6A 112" AFF. (COOLER EVAPORATOR COIL)
E3 208/3PH 16.6A AS LOCATED BY ARCHITECT FOR COOLER CONDENSING UNIT
E11 120/1PH 20A 112" AFF. (WALK-IN FREEZER)
E12 208/1PH 0.8A 112" AFF. (WALK-IN FREEZER)
E13 208/3PH 12.6A AS LOCATED BY ARCHITECT FOR FREEZER CONDENSING UNIT
E22 (3 EACH) 120/1PH 10A 90" AFF. (AIR CURTAIN)
E23 120/1PH 15A 98" AFF. (POWER PACK)
NOTE: VERIFY ALL WALK-IN ELECTRICAL WITH MANUFACTURER'S SHOP DRAWINGS
E29 208/3PH 55A 72" AFF. (DISHMACHINE)
E36 115/1PH 4.7A 18" AFF. (WORKTOP FREEZER)
E38 120/1PH 12.0A 50" AFF. (FOOD PROCESSOR)
E39 120/1PH 2.5A 50" AFF. (LETTUCE DRYER)
E46 120/1PH 7.0A 50" AFF. (SLICER)
E51 120/1PH 12.0A 48" AFF. (FOOD SEALER)
E52 (2 EACH) 120/1PH 3.5A 18" AFF. (MOBILE CHILLER)
E53 120/1PH 20A 18" AFF. (HALF SIZE PROOFER)
E54 120/1PH 15A 98" AFF. (POWER PACK)
E56 120-208/3PH 350A DOWN FROM CEILING THRU CHASE, CONNECT TO INTEGRATED LOAD CENTER IN RACEWAY. VERIFY ALL CONNECTIONS WITH FABRICATOR'S SHOP DRAWINGS. COOK LINE WALL COMES PRE-WIRED WITH GFI RECEPTACLES TO INCLUDE THE FOLLOWING ITEMS:
ITEM #30 208/1PH 31A 36" AFF. (SMOKER OVEN)
ITEM #68 (2EA) 208/3PH 30A 18" AFF. (20 GAL. ELECTRIC KETTLE) (1EA)
ITEM #72 (2 EACH) 115/1PH 8A 36", 48" AFF. (DBL. STACK CONVECTION OVEN)
ITEM #76 120/1PH 1.0A 18" AFF. (PASTA COOKER)
ITEM #77 120/1PH 15A 18" AFF. (CRISP N HOLD)
ITEM #79 120/1PH 10A 18" AFF. (BATTER TABLE)
ITEM #80 120/1PH 48.8A 18" AFF. (4 FRYER BANK/ W BUILT IN FILTRATION)
ITEM #82 120/1PH 3.3A 43" AFF. (HOT FOOD WELL)
ITEM #85 208/3PH 50A 48" AFF. (TURBO CHEF OVEN)
ITEM #85B115/1PH 4.7A 18" AFF. (REFRIGERATED PREP TABLE)
ITEM #88 120/1PH 24.4A 18" AFF. (1 FRYER BANK/ W BUILT IN FILTRATION)
ITEM #92 208/1PH 14A 18" AFF. (28" CRISP N HOLD)
ITEM #93 115/1PH 5.3A 18" AFF. (UNDERCOUNTER FREEZER)
ITEM #112 115/1PH 4.8A 18" AFF. (REFRIGERATED EQUIPMENT STAND)
ITEM #113 115/1PH 4.8A 18" AFF. (REFRIGERATED EQUIPMENT STAND)

NOTE: REFER TO FABRICATOR'S SHOP DRAWINGS FOR LOAD CENTER HOOK UP

- E57 120/1PH 15.0A 50" AFF. (30 QT. MIXER)
E63 (2 EACH) 208/1PH 28.8A 50" AFF. (COUNTER TOP RETHERMALIZER)
E65 120/1PH 16.0A 72" AFF. (FULL HT. HOLDING CABINET)
E66 208/1PH 16A 18" AFF. (THAW BOX)
E75 120/1PH 20A EA. 112" AFF. (EXHAUST HOODS / FIRE SUPPRESSION SYSTEM)

NOTE: VERIFY ALL EXHAUST CANOPY ELECTRICAL WITH MANUFACTURER'S SHOP DRAWINGS

- E79 120/1PH 10A 18" AFF. (REFRIGERATED BATTER STATION)
E82 120/1PH 3.3A 43" AFF. (HOT FOOD WELL)
E85A 115/1PH 4.7A 18" AFF. (REFRIGERATED PREP TABLE)
E87 120/1PH 5.0A 18" AFF. (COLD RAIL COMPRESSOR)
E97 115/1PH 5.8A 18" AFF. (REACH-IN UNDERCOUNTER FREEZER)
E99 115/1PH 4.7A 18" AFF. (REFRIGERATED PREP TABLE)
E100 120/1PH 15.0A 50" AFF. (TORTILLA GRILL)
E101 208/1PH 12.25A 50" AFF. (CONTACT TOASTER)

EQUIPMENT IN CHEF'S COUNTER PASS SHELVES POWER ABOVE CEILING IN CHASE

- E55 S/S SHELF LOAD CENTER. VERIFY ELECTRICAL WITH EQUIPMENT MANUFACTURER SPECIFICATIONS
E106 (3 EACH) 208/1PH 15.3A (MICROWAVE OVEN)
E108 (2 EACH) 120/208/1PH 23.2A (60" HEAT LAMP)
E108.1 (2 EACH) 120/208/1PH 40.0A (REMOTE CONTROL BOX HEAT LAMP)
E117 120/1PH 3.3A (HOLDING UNIT)
E121 208/1PH 16.0A (THERMO FINISHER)
E141 120/208/1PH 4.52 KW (84" DUAL HEAT LAMP)

- E105 (3 EACH) 120/1PH 10A 39" AFF. & (1 EACH) AT 52" AFF. (METRO CARRYOUT STATION (HOT))
E107 115/1PH 6.5A 18" AFF. (REFRIGERATION PREP TABLE)
E115 120/1PH 5.3A 18" AFF. (FREE STANDING WARMING DRAWER)
E116 208/1PH 20A 24" AFF. (3 HOT WELL FOOD TABLE)
E118 208/1PH 11.9A 18" AFF. (CROISSANT WARMER)
E122 120/1PH 17A 18" AFF. (WELL HOT FOOD TABLE)
E126 208/3PH 83.3A 72" AFF. (BOOSTER HEATER)
E130 120/1PH 12.6A 50" AFF. (NACHO CHIP WARMER)
E132 120/1PH 13.8A 43" AFF. (COUNTERTOP FOOD WARMER)
E134 115V/1PH 6.5A 24" AFF. UNDERCOUNTER DBL. REACH-IN REFRIGERATOR)
E136 120/1PH 1.6A 24" AFF. (ICE CREAM DIPPING CABINET)
E142 (2 EACH) POWER FOR REMOTE CONDENSER COMES FROM ICE MAKERS
E143 (2 EACH) 208-230/3PH EA. 90" AFF. (ICE MAKER HEAD)
E148 (4 EACH) 120/1PH 16.0A 104" AFF. (CARBONATORS)
E152 115/1PH 12A 24" AFF. (60" SALAD PREP TABLE)
E160 (2 EACH) 120/1PH 14.0A 50" AFF. (ICE TEA BREWER)
E161 120/1PH 20A 50" AFF. (COFFEE MAKER)
E162 120/1PH 15.0A 50" AFF. (LEMONADE DISPENSER)
E164 (2 EACH) 120/1PH 15.0A 12" AFF. (SODA DISPENSER)
E175 120/1PH 11.3A 48" AFF. (REACH-IN FREEZER)
E200 (1 EACH) 120/1PH 20A 18" AFF. (UTILITY - MOUNT VERTICAL)
E201 (8 EACH) 120/1PH 20A 50" AFF. (UTILITY - MOUNT HORIZONTAL) UNLESS OTHERWISE NOTED
E202 (2 EACH) 120/1PH 20A 24" AFF. (UTILITY - MOUNT HORIZONTAL) UNLESS OTHERWISE NOTED
EB222 ELEC. SERVICE FOR UNDERBAR - STUB UP INTO BAR DIE WALL AND RUN WIRING TO PROVIDE POWER TO THE FOLLOWING: (NO EXPOSED CONDUIT ALLOWED)
ITEM #B211 120/1PH 11.5A UNDERSIDE OF BAR TOP (BAR BLENDER)
ITEM #B225 (2 EACH) 120/1PH 4A 18" AFF. (24" GLASS FROSTER)
ITEM #B229 208/1PH 15.0A 24" AFF. (FROZEN BEVERAGE MACHINE)
20A UTILITY OUTLET FOR SUBMERSIBLE GLASS WASHER BRUSH
EB223 (2 EACH) 120/1PH 3.0A 18" AFF. (SINGLE DOOR REFRIGERATOR)
EB226 (2 EACH) 120/1PH 2.0A 48" AFF. (LIQUOR DISPLAY STEP)
EB228 120/1PH 4.2A 18" AFF. (TWO DOOR BACK BAR REFRIGERATOR)
EB231 120/1PH 4.2A 18" AFF. (FOUR DOOR BACK BAR REFRIGERATOR)

ELECTRICAL CONNECTION LEGEND

- ⊖ DUPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
⊖ SIMPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
⊖ SPECIAL PURPOSE RECEPTACLE., 20-AMP, 208-VOLT, GROUND TYPE, VERTICAL MOUNT
⊖ JUNCTION BOX
⊖ POS / PRINTER SYSTEM DATA CABLE
⊖ ELECTRICAL CONDUIT FEED
----- FIELD WIRING, CONCEALED IN WALL, FLOOR, CEILING OR WITHIN EQUIPMENT

NOTE:
ALL RECEPTACLES CALLED OUT AT 54" AFF. ARE TO BE MOUNTED HORIZONTALLY.
INTERCONNECT DEFROST TIMERS ON ALL WALK-IN EVAPORATOR COILS TO REMOTE COMPRESSORS. (120 VOLT)
REMOTE COMPRESSORS AND ROOF MOUNTED FANS SHALL BE LOCATED BY ENGINEER. REFER TO MECHANICAL PLANS.

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Cheddar's
SCRATCH KITCHEN

Issue Date: 01/23/23

REVISION INFORMATION

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CITY COMMENTS

2 04.05.2023

COORDINATION COMMENTS

Restaurant #: 2215

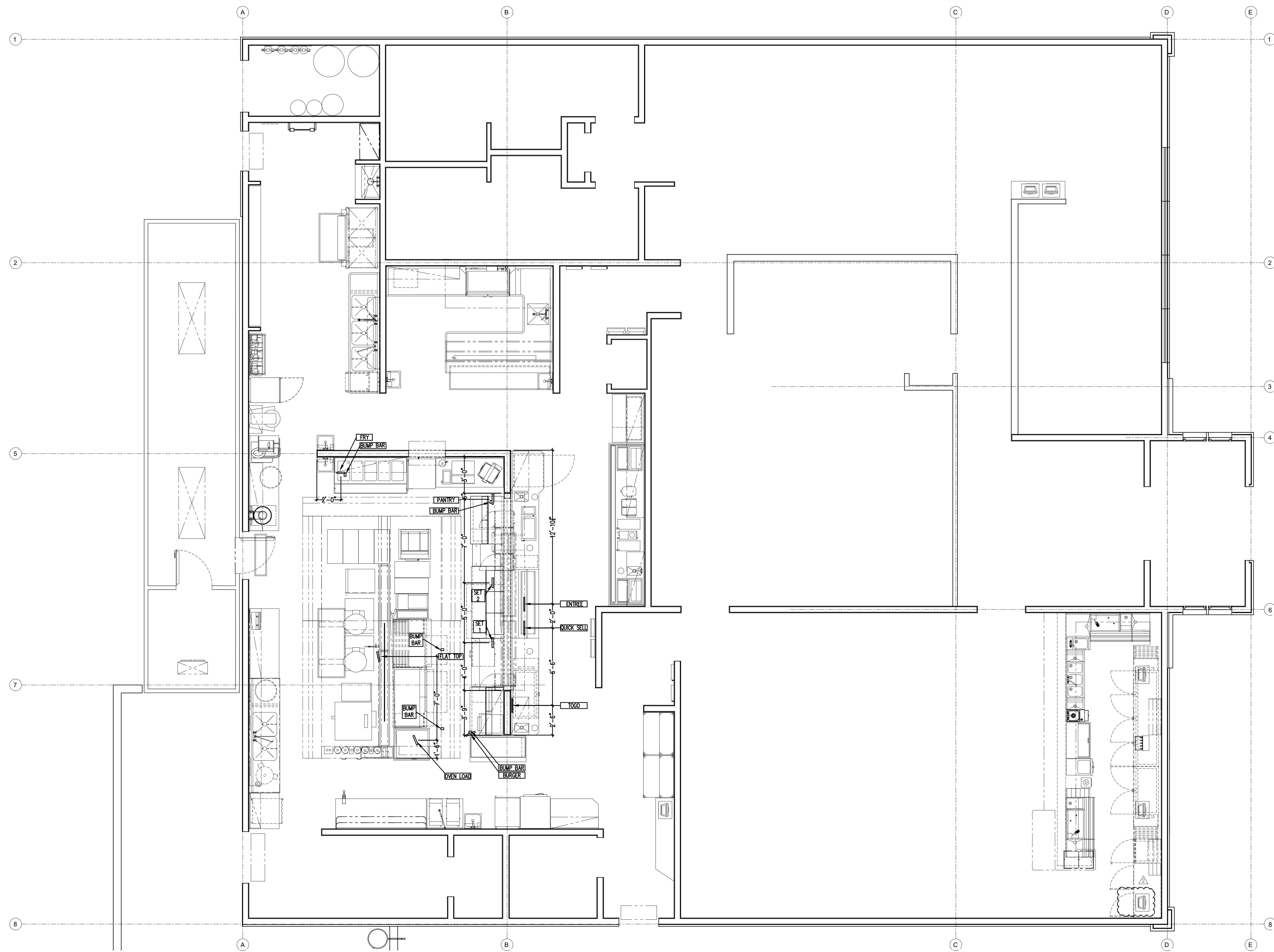
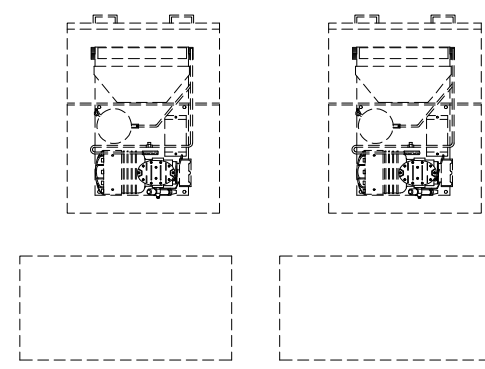
CHEDDAR'S
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

FOOD SERVICE
ELECTRICAL
REQUIREMENT PLAN

FS-3.3



KITCHEN DISPLAY SYSTEM LOCATION KEY

QUICK SELL - DECK MOUNTED - FACING SERVER ALLEY SIDE . POWER AND DATA FROM CEILING.

ENTREE - DECK MOUNTED - FACING SERVER ALLEY SIDE . POWER AND DATA FROM CEILING.

SET 1 - DECK MOUNTED - FACING COOK LINE ALLEY SIDE. POWER AND DATA FROM CEILING. (PROVIDE ADDITIONAL DUPLEX RECEPTACLE FOR PRINTER).

SET 2 - DECK MOUNTED - FACING COOK LINE ALLEY SIDE. POWER AND DATA FROM CEILING. (PROVIDE ADDITIONAL DUPLEX RECEPTACLE FOR PRINTER).

FLAT TOP - POLE MOUNTED TO RACE WAY; SCREEN FACING ALLEY. FEED THROUGH RACE WAY TO LOCATION AS SHOWN.

OVEN LOAD - POLE MOUNTED TO RACE WAY; SCREEN FACING ALLEY. FEED THROUGH RACE WAY TO LOCATION AS SHOWN.

FRY - WALL MOUNTED SCREEN FACING EXPO COUNTER. FEED POWER AND DATE FROM CEILING.

BURGER - WALL MOUNTED FACING COOK'S SIDE. POWER AND DATA FROM CEILING.

PANTRY - DECK MOUNTED TO UPPER SHELF FACING FRY STATION. FEED FROM CEILING WALL.

TOGO - WALL MOUNTED FACING ALLEY SIDE. POWER AND DATA FROM CEILING.

NOTE: ALL KDS POLE LOCATIONS REQUIRE A DEDICATED DUPLEX RECEPTACLE AND DATA LINE.

REFER TO THE ARCHITECT'S "E" SHEETS FOR PRINTER LOCATIONS.

NOTE : ALL KDS LOCATIONS REQUIRE A DEDICATED DUPLEX RECEPTACLE & DATA LINE

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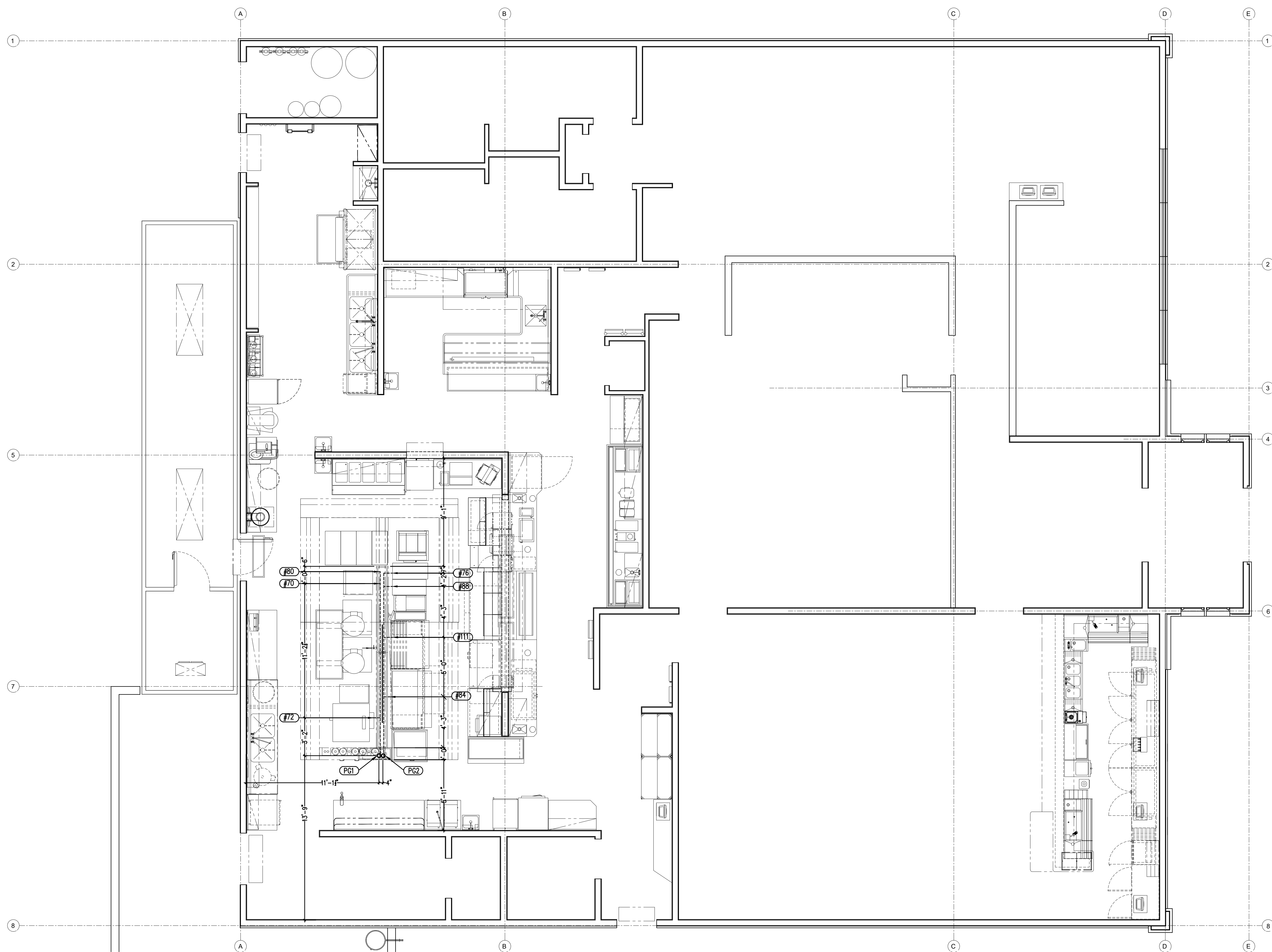
Restaurant #: 2215

CHEDDAR'S
SCRATCH KITCHEN
PROTO 18
10150 BLOOMINGDALE AVE
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RIVERVIEW, FL

FOOD SERVICE
KDS LOCATIONS

FS3.4



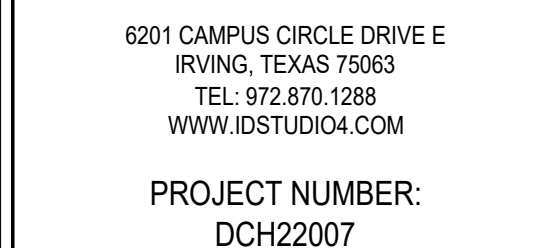
PG1 2" GAS FEED DOWN LOAD CENTER WALL FROM CEILING, CONNECT TO EQUIPMENT AS FOLLOWS:

ITEM #70 - 4 BURNER COUNTERTOP HOTPLATE - 3/4" GAS 100,000 BTU @ 24" AFF.
ITEM #72 - CONVECTION OVEN - 3/4" GAS 110,000 BTU @ 24" AFF.
ITEM #80 - 4 FRYER BANK W/ BUILT-IN FILTER - 1" GAS 300,000 BTU @ 24" AFF.

PG2 2" GAS FEED DOWN WALL FROM CEILING, CONNECT TO EQUIPMENT AS FOLLOWS:

ITEM #76 - PASTA COOKER - 3/4" GAS 60,000 BTU @ 24" AFF.
ITEM #84 - CHAR BROILER - 3/4" GAS 187,000 BTU @ 24" AFF.
ITEM #88 - 1 FRYER BANK W/ BUILT-IN FILTER - 3/4" GAS 75,000 BTU @ 24" AFF.
ITEM #111 - 48" COUNTERTOP GRIDDLE - 3/4" GAS 108,000 BTU @ 36" AFF.

NOTE: GAS VALVES TO BE LOCATED BY ARCHITECT, PLUMBER TO SUPPLY AND INSTALL GAS VALVES IN COMPLIANCE WITH ALL LOCAL CODES.



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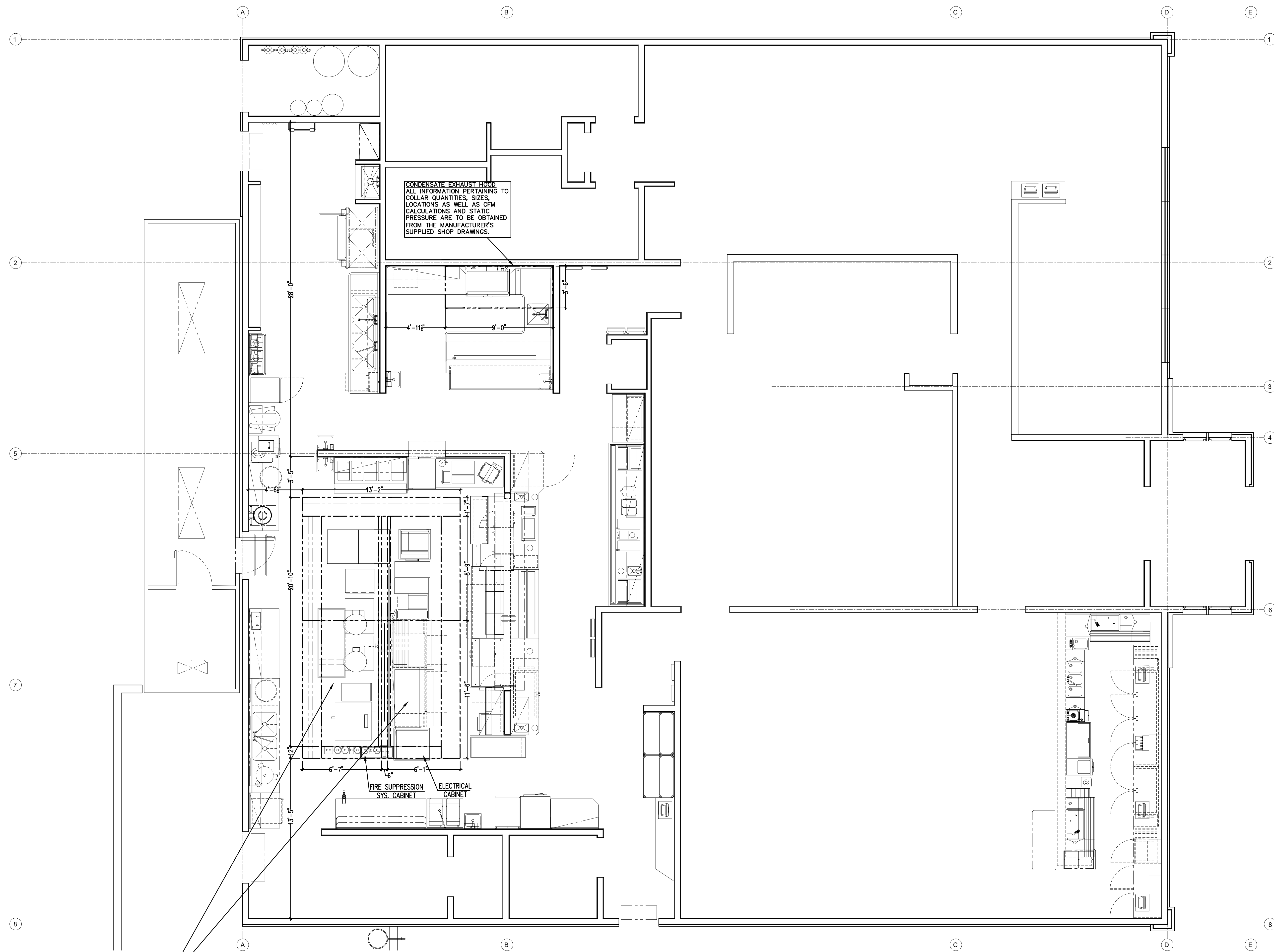
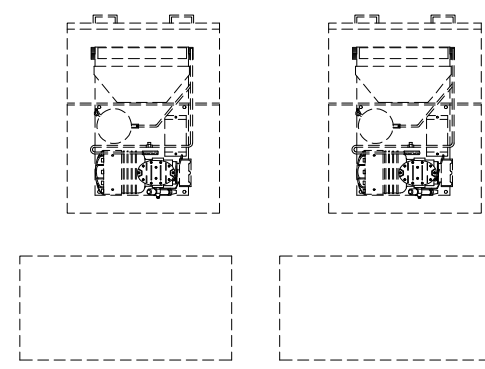
Restaurant #:	2215
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**CHEDDAR'S
SCRATCH KITCHEN**
PROTO 18
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

FOOD SERVICE GAS REQUIREMENT PLAN

FS-3.5



CONDENSATE EXHAUST HOOD.
ALL INFORMATION PERTAINING TO
COLLAR QUANTITIES, SIZES,
LOCATIONS AS WELL AS CFM
CALCULATIONS AND STATIC
PRESSURE ARE TO BE OBTAINED
FROM THE MANUFACTURER'S
SUPPLIED SHOP DRAWINGS.

FIRE SUPPRESSION
SYS. CABINET

ELECTRICAL
CABINET

EXHAUST CANOPY
ALL INFORMATION PERTAINING TO COLLAR
QUANTITIES, SIZES, LOCATIONS AS WELL AS
CFM CALCULATIONS AND STATIC PRESSURE
ARE TO BE OBTAINED FROM THE
MANUFACTURER'S SUPPLIED SHOP DRAWINGS.

NOTE: VERIFY ALL
INFORMATION WITH
MANUFACTURER'S SHOP
DRAWINGS

NOTE: ALL HOOD CANOPIES
TO BE INSTALLED 6'-8" AFF.

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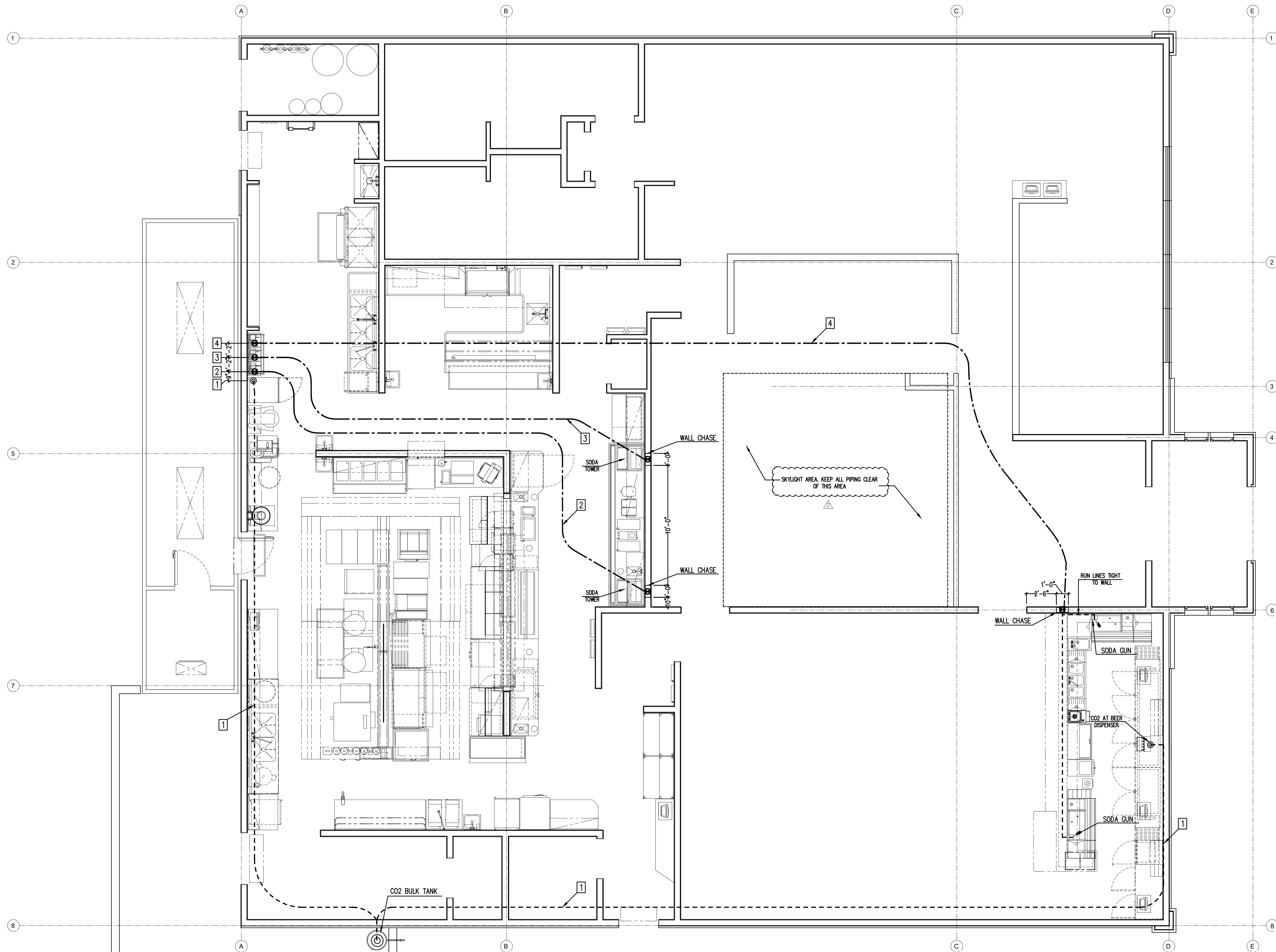
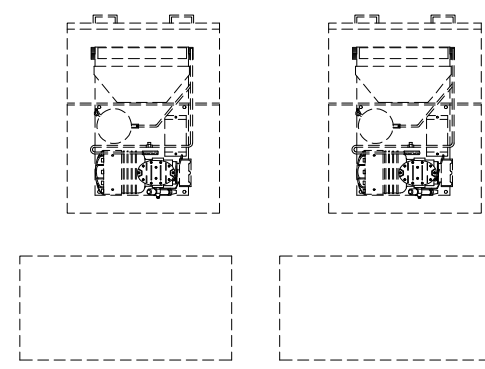
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FOOD SERVICE
EXHAUST HOOD
LOCATION PLAN

FS-3.6



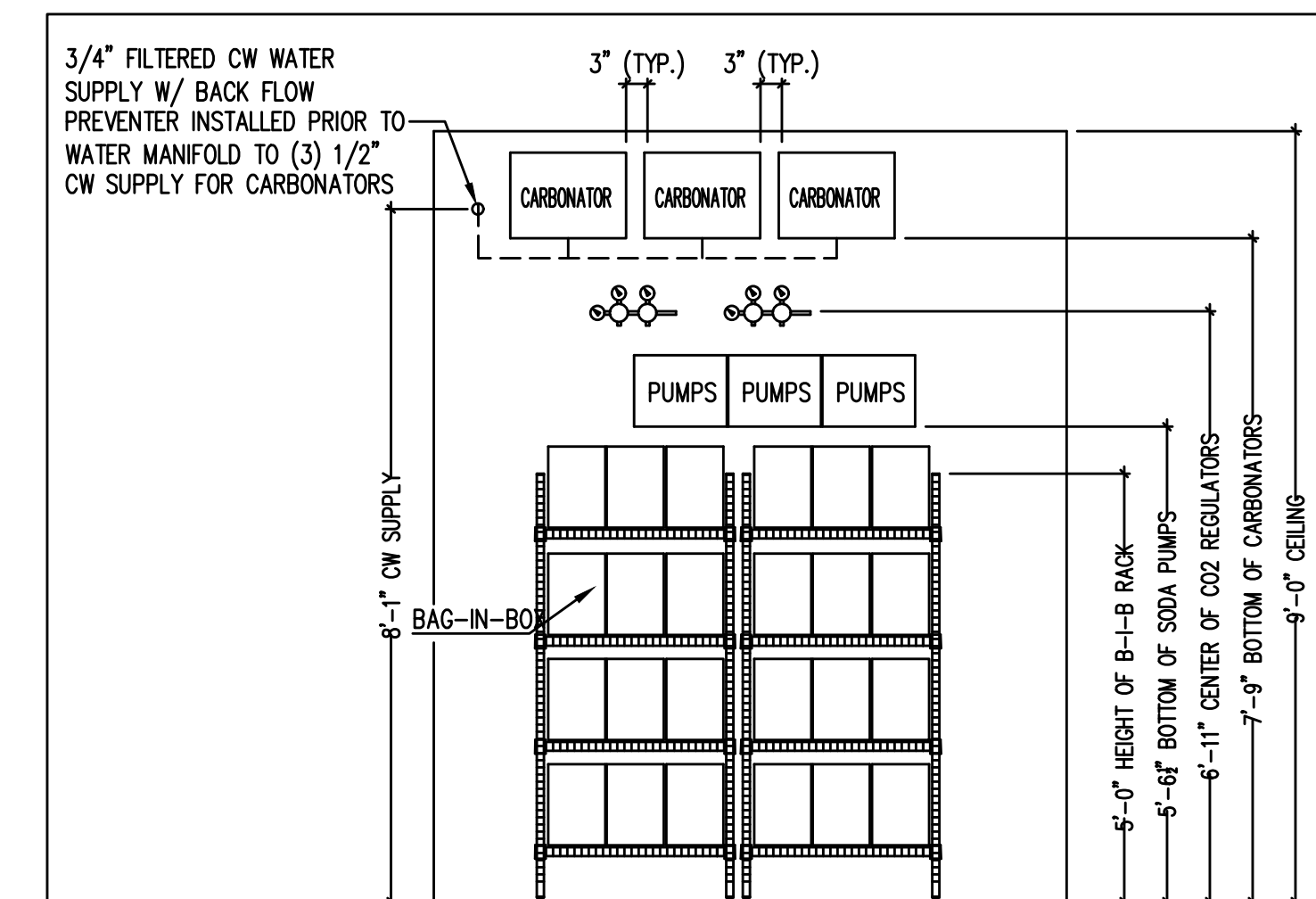
GENERAL NOTES

SODA LINES RUNNING OVERHEAD ABOVE THE CEILING AND DOWN WALL CHASES. G.C. IS TO SUPPLY AND INSTALL 8" PVC CHASES PER THE LAYOUT SHOWN ON THIS SHEET. THE CHASE(S) SHALL MAINTAIN A MINIMUM 24" SWEEP WHERE REQUIRED, NO 45 OR 90 DEGREE BENDS ARE ALLOWED.

- CO2 LINES - GC TO RUN 2" AIRTIGHT PVC CHASE ABOVE CEILING FROM BULK CO2 TANK IN SERVICE YARD TO SODA SYSTEM BIBB RACK IN KITCHEN. GC ALSO TO RUN 2" AIRTIGHT PVC CHASES OVERHEAD FROM BULK CO2 TANK LOCATED IN THE SERVICE YARD TO BEER DISPENSER AT BAR.
- SODA LINE RUN FOR SODA TOWER "A". SODA LINES TO RUN FROM BIBB RACK IN KITCHEN ABOVE CEILING TO MAIN BEVERAGE COUNTER CHASE. RUN LINES DOWN CHASE AND EXIT @ 12" AFF WITH ADEQUATE SWEEP TO AVOID FLOW RESTRICTION AND RUN TO SODA TOWER IN BEVERAGE STATION AND CONNECT TO TOWER.
- SODA LINE RUN FOR SODA TOWER "B". SODA LINES TO RUN FROM BIBB RACK IN KITCHEN ABOVE CEILING TO MAIN BEVERAGE COUNTER CHASE. RUN LINES DOWN CHASE AND EXIT @ 12" AFF WITH ADEQUATE SWEEP TO AVOID FLOW RESTRICTION AND RUN TO SODA TOWER IN BEVERAGE STATION AND CONNECT TO TOWER.
- SODA LINE RUNS FOR BAR GUNS. SODA LINES TO RUN FROM BIBB RACK IN KITCHEN DOWN CHASE AT BAR. EXIT LINE @ 12" AFF WITH ADEQUATE SWEEP TO AVOID FLOW RESTRICTION AND CONTINUE SODA LINES DOWN BAR DIE WALL TO CONNECTION.

----- CO2 OVER HEAD LINES FROM CO2 TANK TO CARBONATORS AND BAR DISPENSER
----- SODA LINES ABOVE CEILING TO WALL CHASE

NOTE: ALL LINE RUNS SHOWN ARE APPROXIMATE. SODA SYSTEM INSTALLERS TO USE BEST ROUTING OF LINES TO AVOID CONFLICTING WITH OTHER BUILDING SYSTEMS THAT ARE RUN ABOVE CEILINGS.



PROTOTYPE INSTALLATION FOR
SODA B-I-B EQUIPMENT

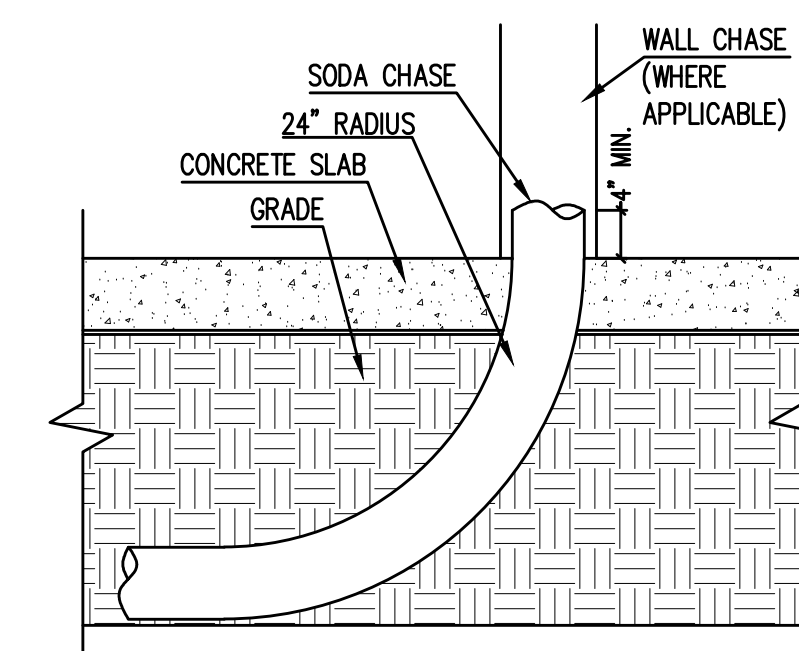
UNDERFLOOR CONDUIT CONSTRUCTION

CONDUIT RUNS UNDER SLAB MUST HAVE SMOOTH INTERIOR WITH MINIMUM DIAMETER OF 6 INCHES. ANY CONDUIT MUST HAVE ONLY ONE (1) 24" RADIUS SWEEP BEND (45° OR 90°) AT EACH END WITH NO ADDITIONAL BENDS IN THAT CONDUIT. PLUMBING STYLE FACTORY "L" BENDS ARE NOT ACCEPTABLE.

CONDUIT MUST BE CONSTRUCTED WITH TIGHT, INTERNALLY SMOOTH JOINTS AND MUST BE LEAK TIGHT. PRESSURE TEST AS REQUIRED.

CONDUIT TO BE CAPPED AND SEALED AT BOTH ENDS DURING FURTHER CONSTRUCTION. INSTALLER TO TRIM EXPOSED ENDS TO 4 INCHES ABOVE FINISHED FLOOR DURING PRODUCT LINE INSTALLATION. AFTER PRODUCT LINES ARE INSTALLED, THE OPEN ENDS OF THE CONDUIT ARE TO BE FILLED AND SEALED (WATERTIGHT) APPROXIMATELY 2 TO 4 INCHES AT EACH END.

SPECIFY AS: "PROVIDE MINIMUM 6 INCH APPROVED MATERIAL CONDUIT AS DESCRIBED IN ARTICLE 347 OF THE NATIONAL ELECTRICAL CODE TO MEET UL STANDARD 651, NEMA SPECIFICATION TC-2, ROBINTECH DUCT AND SWEEP ELBOWS OR EQUAL. DIAMETER TO BE AS INDICATED WITH MINIMUM BENDING RADIUS OF 24 INCHES. PLUMBING STYLE FACTORY "L" BENDS ARE NOT ACCEPTABLE."



SLAB ON GRADE CONDUIT DETAIL

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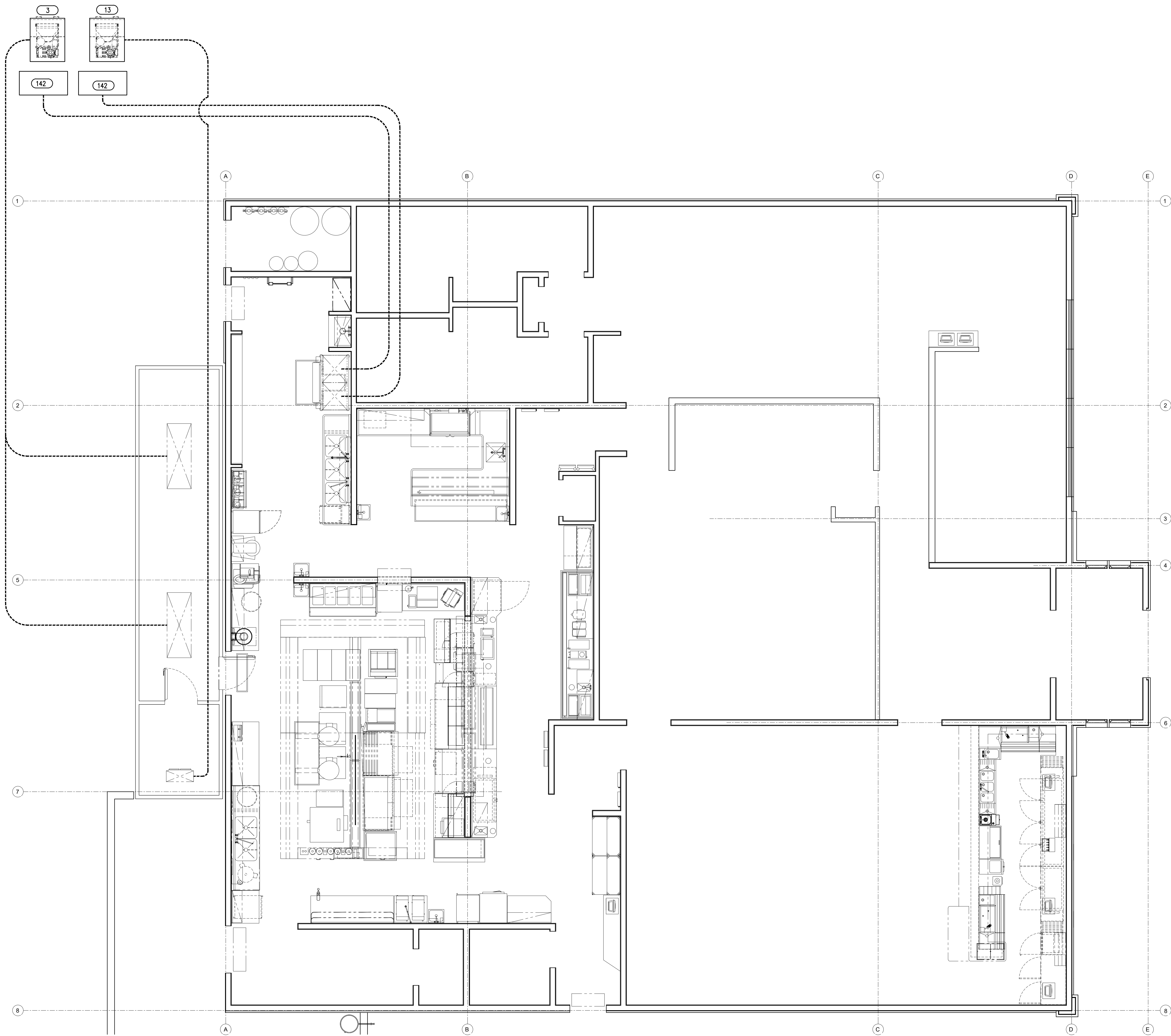
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RIVERVIEW, FL

FOOD SERVICE
SODA & CO2
CHASES

FS-3.7



REFRIGERATION LINE SCHEDULE

ITEM #3 (WALK-IN COOLER & BEER COOLER) 7/8" SUCTION LINE 1/2" LIQUID LINE (REFER TO WALK-IN SHOP DRAWINGS AS DIFFERENT VENDORS MAY HAVE DIFFERENT SIZE REQUIREMENTS)

ITEM #13 (WALK-IN FREEZER) 7/8" SUCTION LINE 1/2" LIQUID LINE (REFER TO WALK-IN SHOP DRAWINGS AS DIFFERENT VENDORS MAY HAVE DIFFERENT SIZE REQUIREMENTS)

ITEM #142 (ICE MAKER / CONDENSER) 5/8" SUCTION LINE 3/8" LIQUID LINE

ALL REFRIGERATION LINES TO BE SUPPLIED AND INSTALLED BY REFRIGERATION CONTRACTOR IN ACCORDANCE WITH ALL LOCAL CODES. LINES TO BE INSULATED AND RUN ABOVE CEILING WHERE POSSIBLE. ALL ROOF PENETRATIONS TO BE SEALED WATER-TIGHT BY BONDED ROOFER.

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6201 CAMPUS CIRCLE DRIVE E
IRVING, TEXAS 75039
TEL: 972.870.1288
WWW.IDSTUDIO4.COM

PROJECT NUMBER:
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4564
www.darden.com

Cheddar's
SCRATCH KITCHEN

Issue Date: 01/23/23

REVISION INFORMATION

1 04.04.2023

CITY COMMENTS

2 04.05.2023

COORDINATION COMMENTS

Restaurant #: 2215

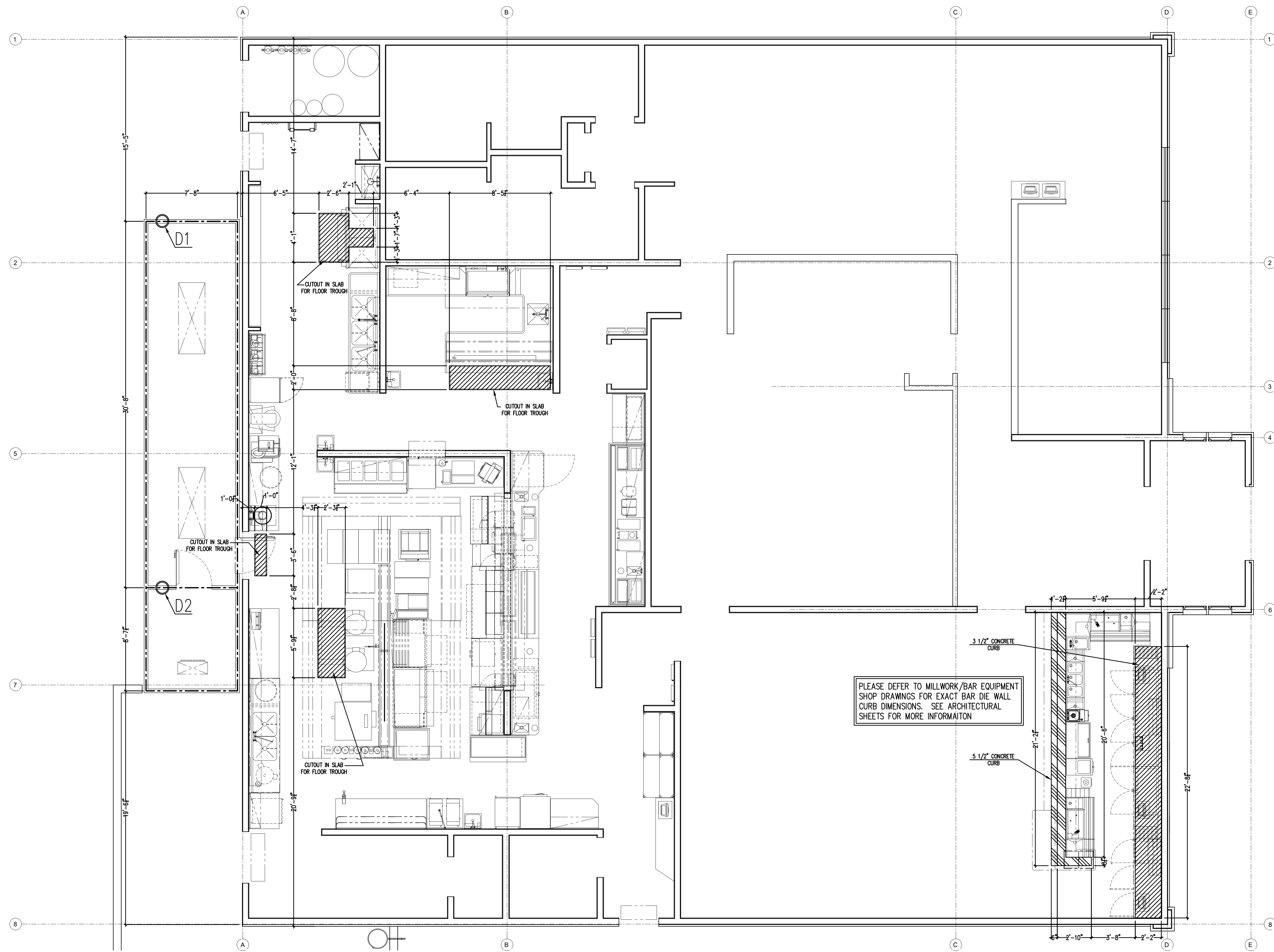
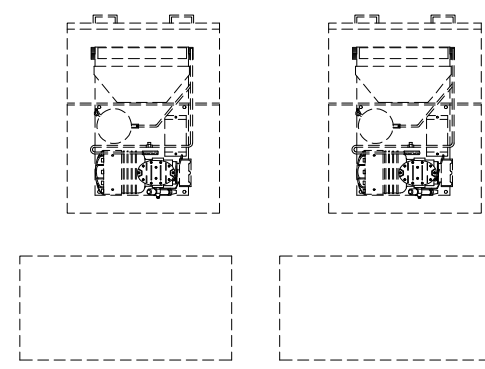
CHEDDAR'S
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

FOOD SERVICE
REMOTE
REFRIGERATION
PLAN

FS-3.8



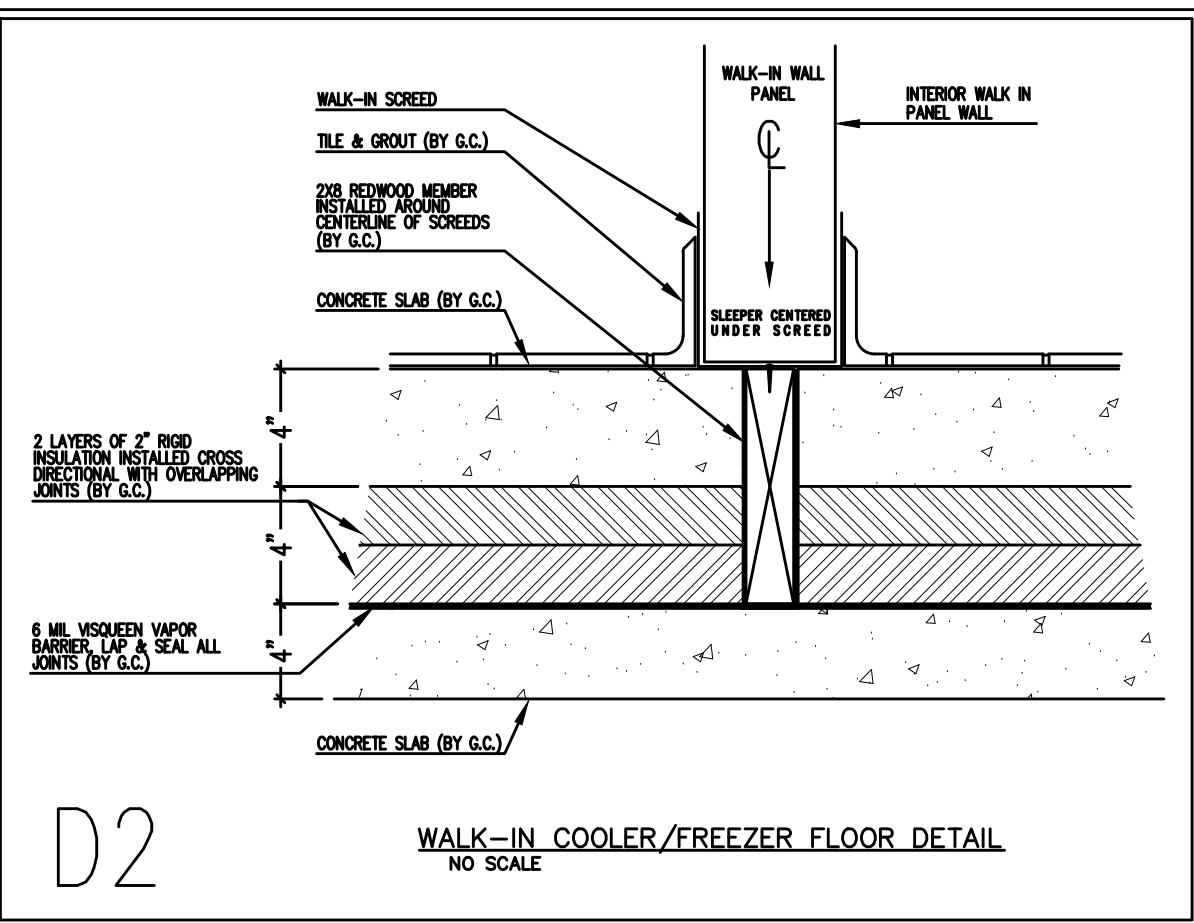
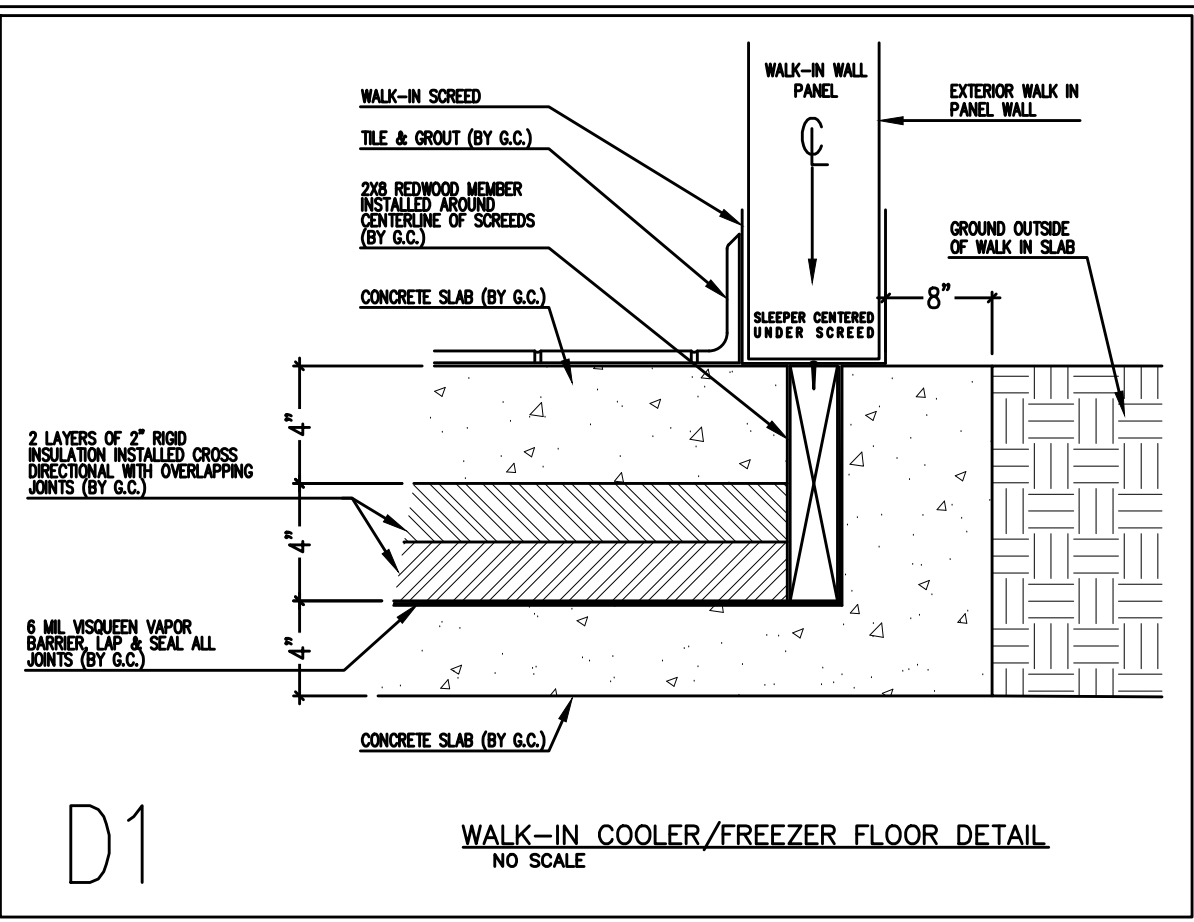
PLEASE DEFER TO MILLWORK/BAR EQUIPMENT SHOP DRAWINGS FOR EXACT BAR DIE WALL CURB DIMENSIONS. SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION

REFER TO PLUMBING AND OR STRUCTURAL DRAWINGS FOR THE FLOOR TROUGH DETAIL.

GENERAL CONTRACTOR TO PROVIDE TWO YARDS OF ROCK FREE SAND FOR INSTALLERS TO LEVEL WALK-IN FREEZER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SMOOTH AND LEVEL RECESS FOR THE WALK-IN FREEZER.

GENERAL CONTRACTOR TO INSTALL MIN. 3/4" PLYWOOD ON TOP OF WALK-INS IMMEDIATELY AFTER THE WALK-IN BOX HAS BEEN ERECTED.

REFER TO WALK IN MANUFACTURER'S SHOP DRAWINGS FOR INFORMATION ON PROPER INSTALLATION OF SLOPED ROOF ON WALK IN BOX AND FLASHING OF THE MEMBRANE TO THE BUILDING. SLOPED ROOF AND MEMBRANE MUST BE INSTALLED AND FLASHED TO THE BUILDING WATER TIGHT.



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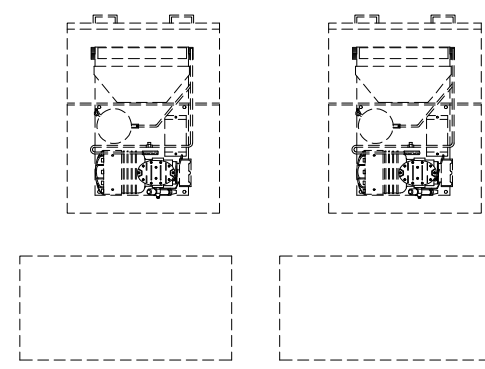
Restaurant #: 2215

CHEDDAR'S
SCRATCH KITCHEN
PROTO 18
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

FOOD SERVICE SLAB
CONDITIONS &
DETAIL

FS-3.9



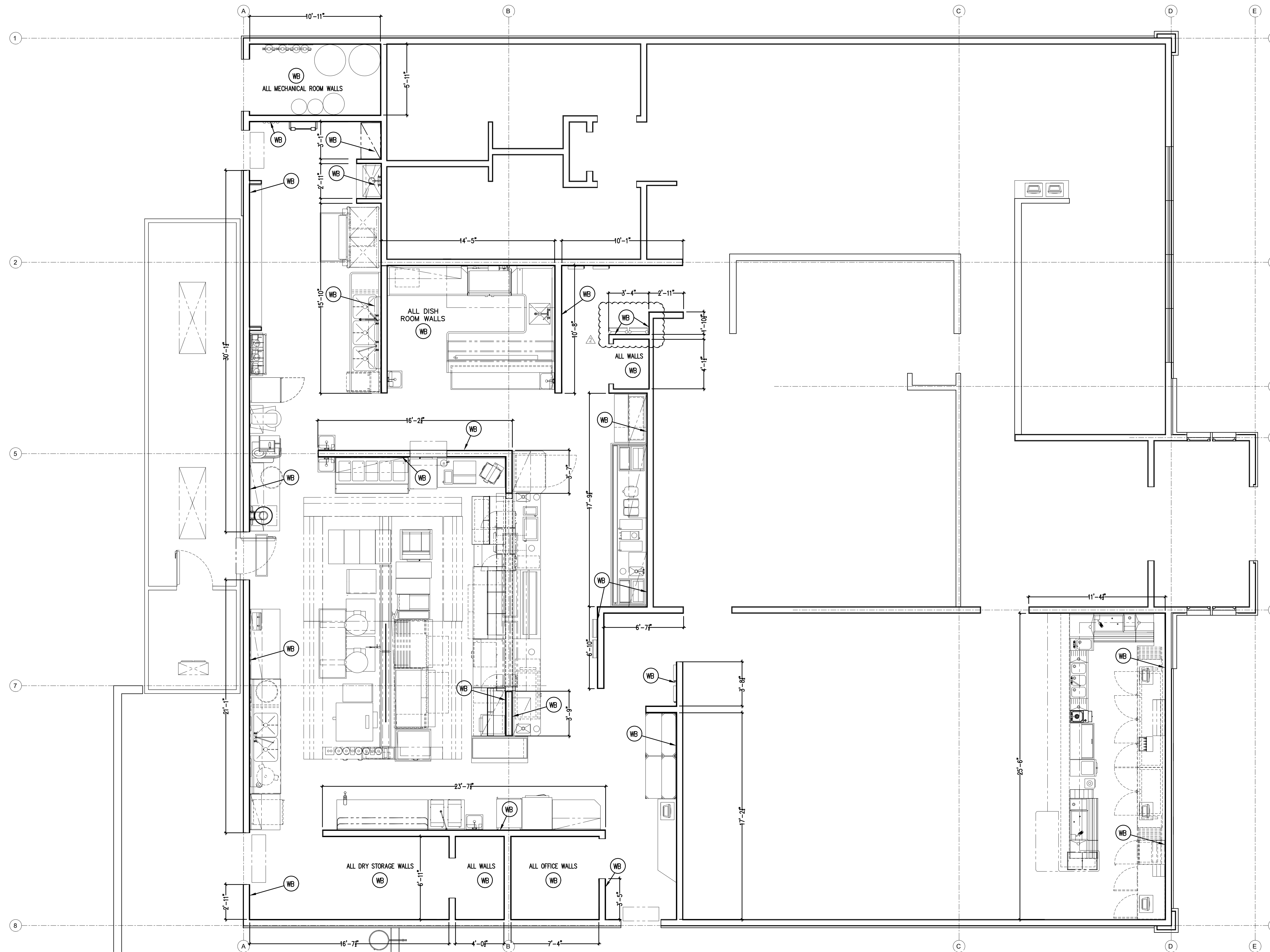
WALL BACKING SCHEDULE

WB

GENERAL CONTRACTOR TO PROVIDE PLYWOOD WALL BACKING ON NOTED NON-MASONRY WALLS. BACKING TO BE FROM 12" AFF. TO 96" AFF. TO ACCOMMODATE WALL MOUNTED HAND SINKS AND OVERSHELVES.

NOTE:

LOCAL CODES PREVAIL REGARDING THE USE OF COMBUSTABLE MATERIALS INSTALLED BEHIND AND/OR NEAR COOKING APPLIANCES. IN THE EVENT THAT PLYWOOD IS NOT ALLOWED AS A WALL BACKING MATERIAL, USE A "TYPE-X" WALL BACKING MATERIAL, (LOCAL CODES WILL STIPULATE A SINGLE OR DOUBLE LAYER). VERIFY ALL APPLICABLE LOCAL CODES.



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ORLANDO, FL 32837
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Cheddar's
SCRATCH KITCHEN

Issue Date: 01/23/23

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COORDINATION COMMENTS

Restaurant #: 2215

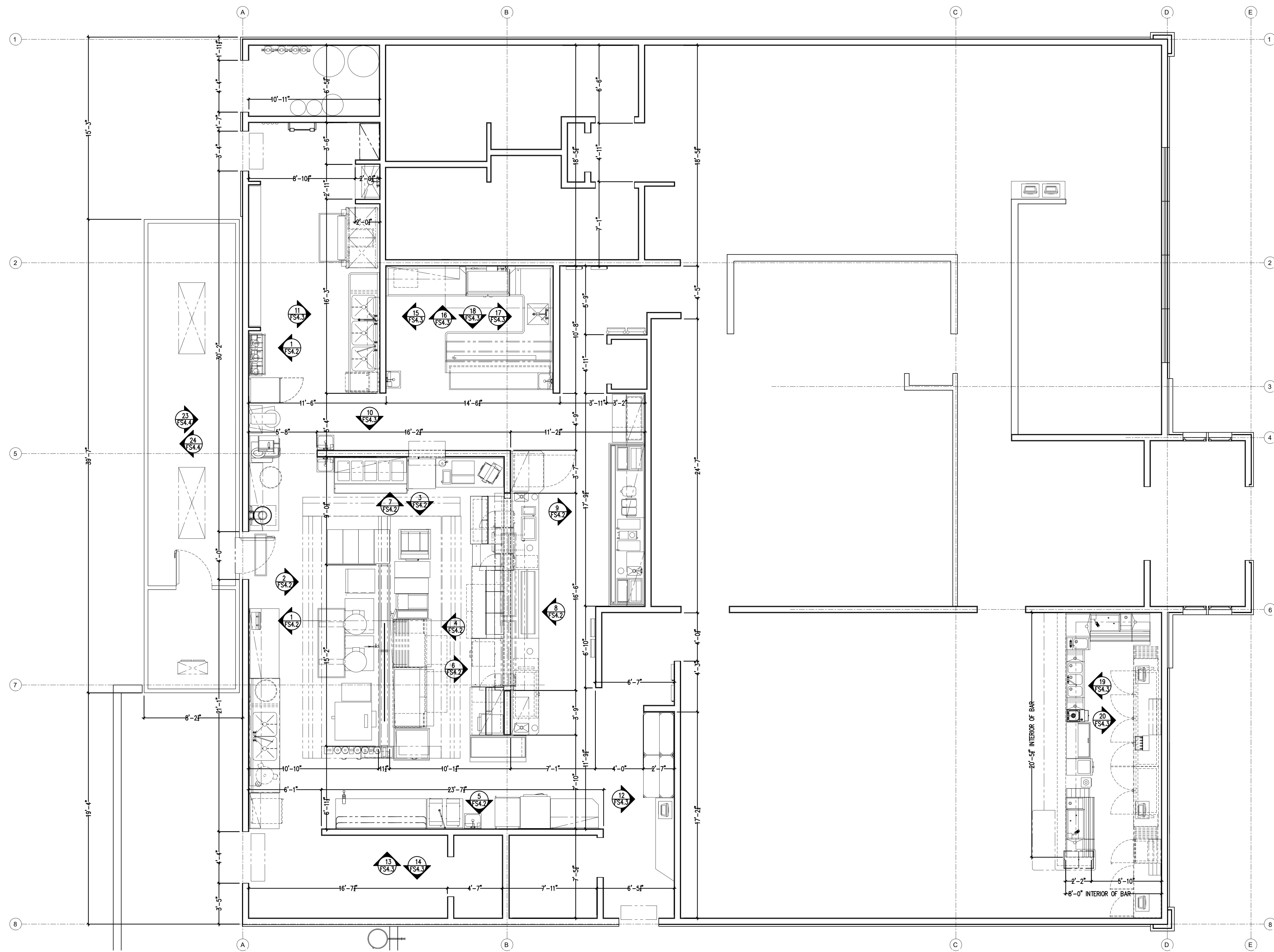
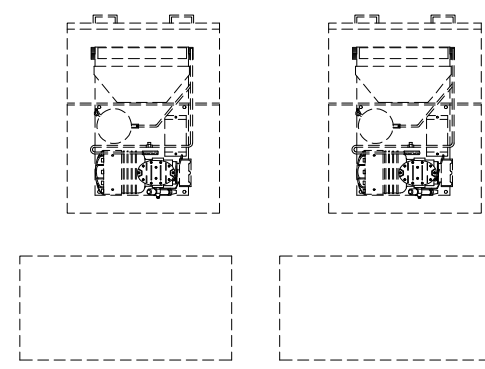
CHEDDAR'S
SCRATCH KITCHEN
PROTO 18

10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

FOOD SERVICE
WALL BACKING
FLOOR PLAN

FS-3.10



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6201 CAMPUS CIRCLE DRIVE E
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PROJECT NUMBER:
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Issue Date: 01/23/23

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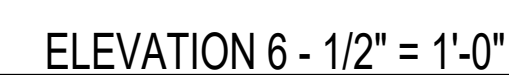
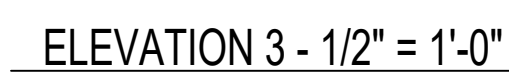
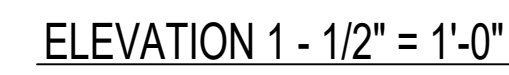
CHEDDAR'S
SCRATCH KITCHEN
PROTO 18

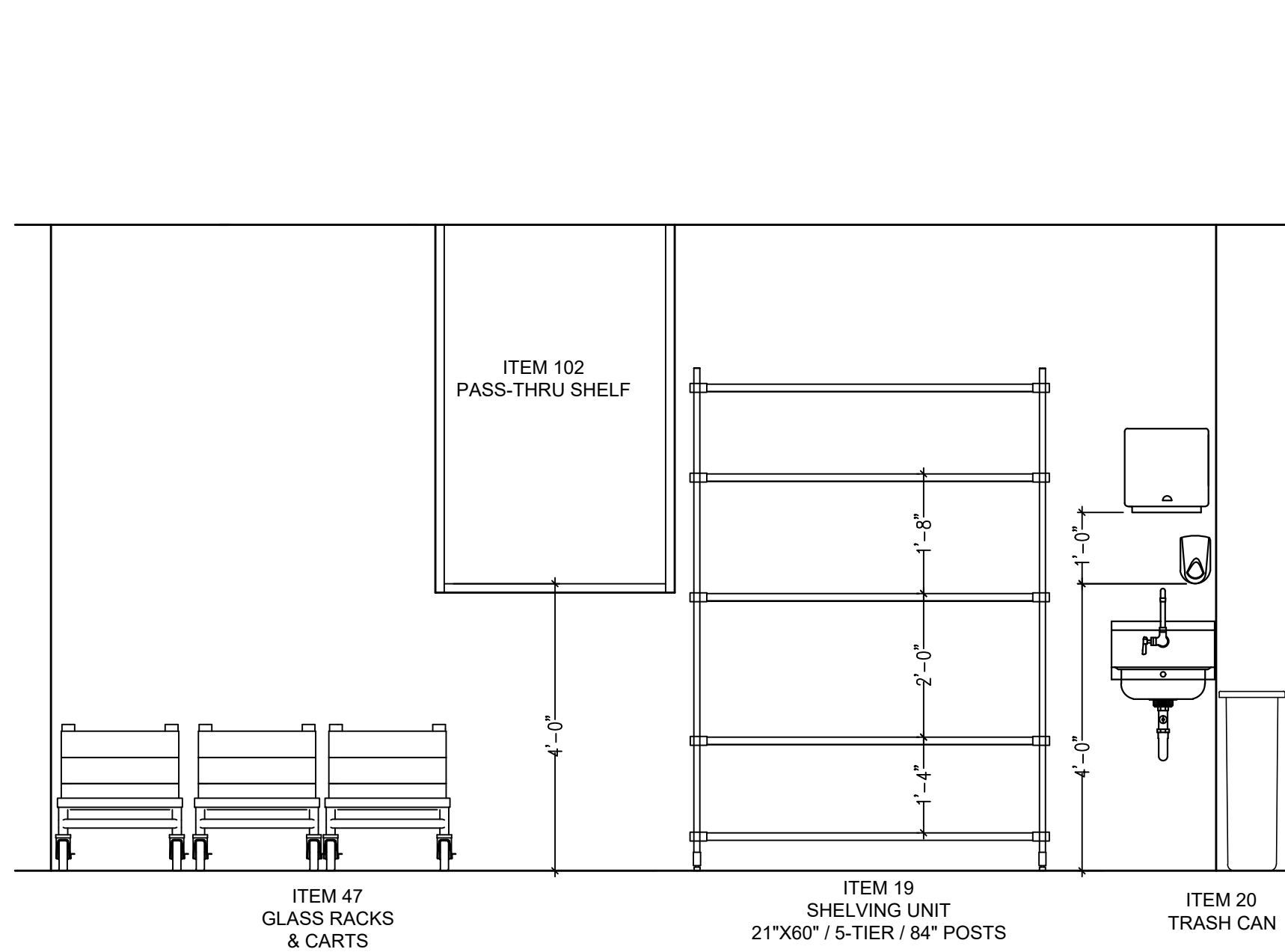
10150 BLOOMINGDALE AVE
RIVERVIEW, FL 33578

RIVERVIEW, FL

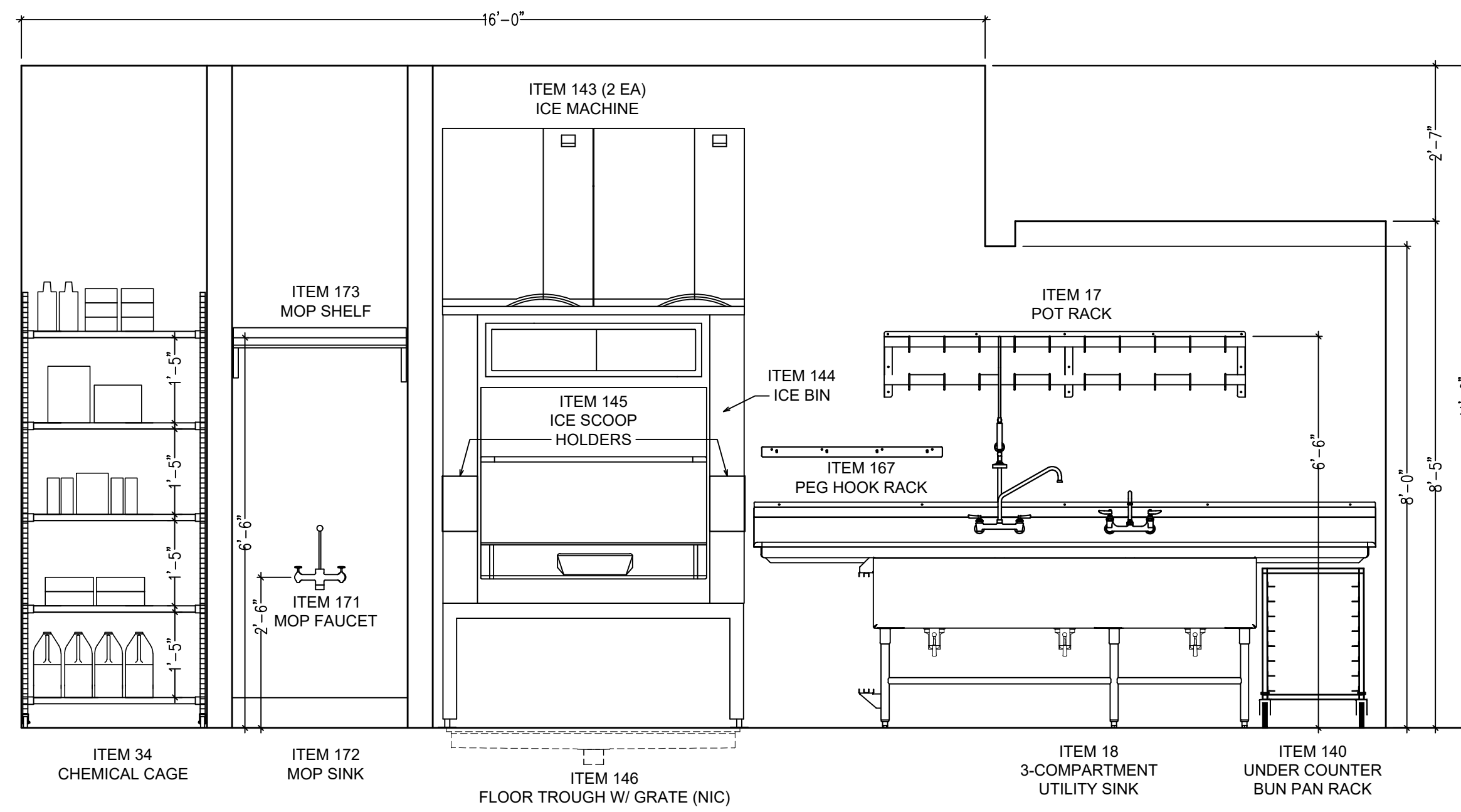
FOOD SERVICE
CRITICAL DIMENSION
& ELEVATION KEY

FS-4.1

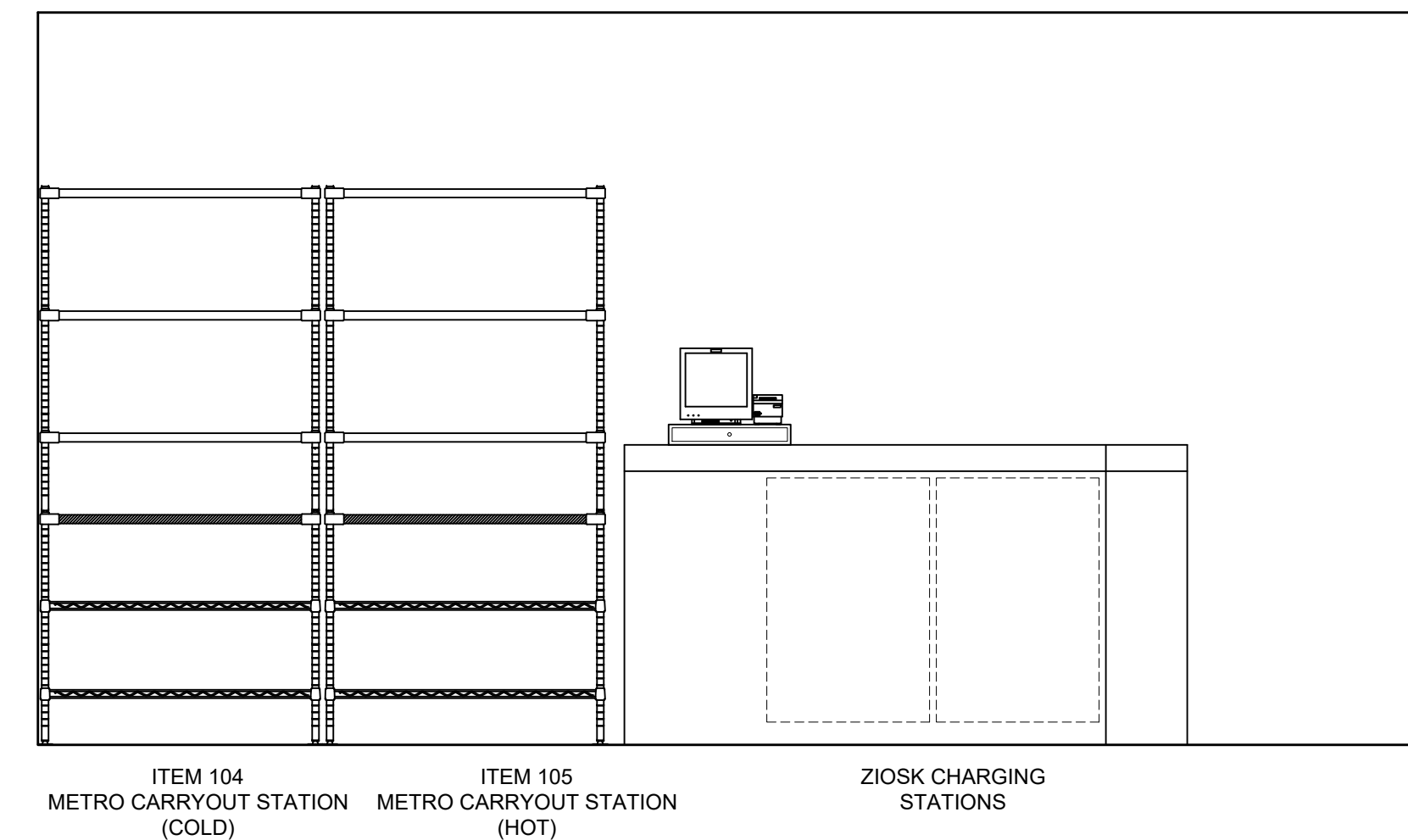




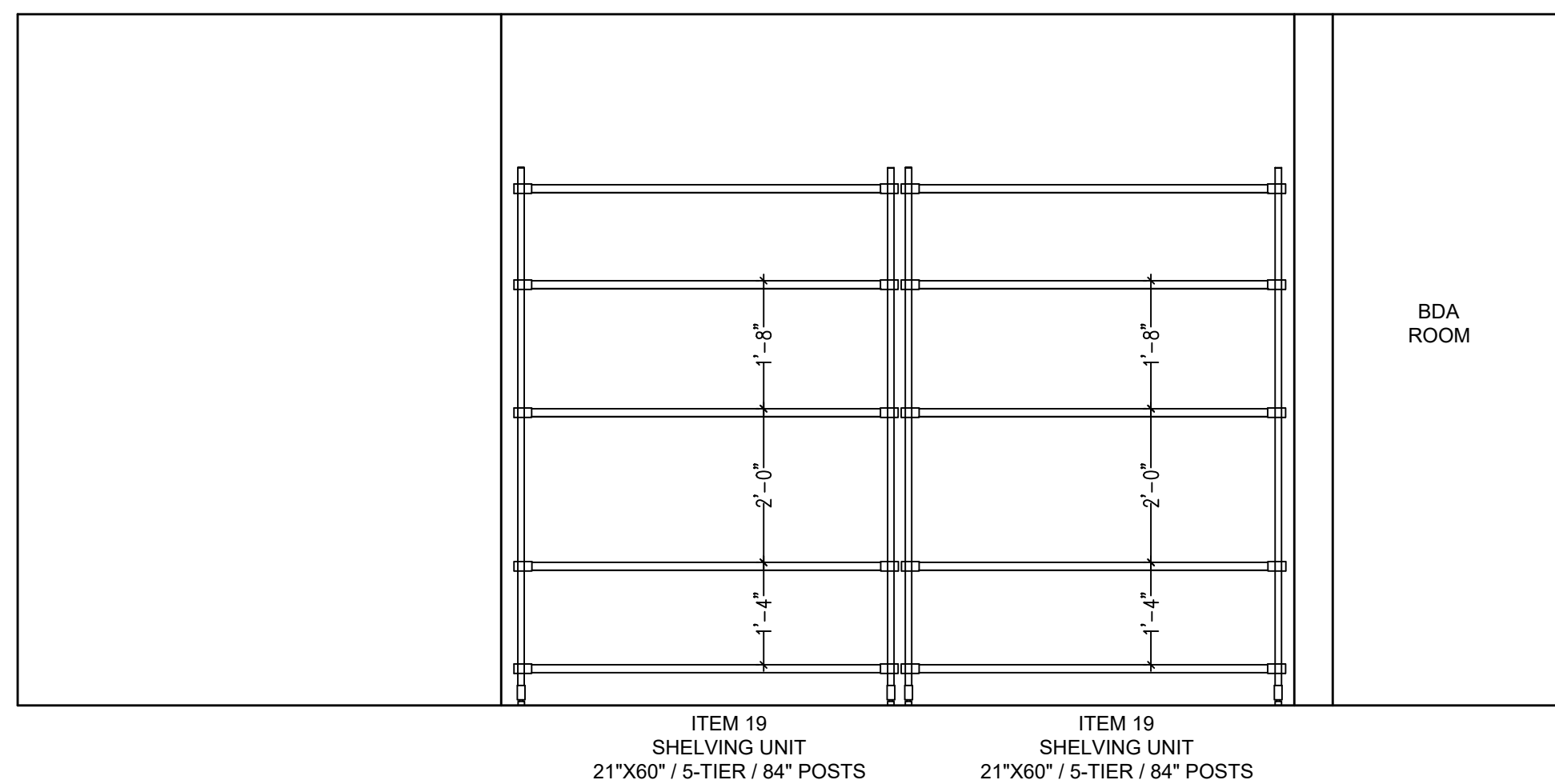
ELEVATION 10 - 1/2" = 1'-0"



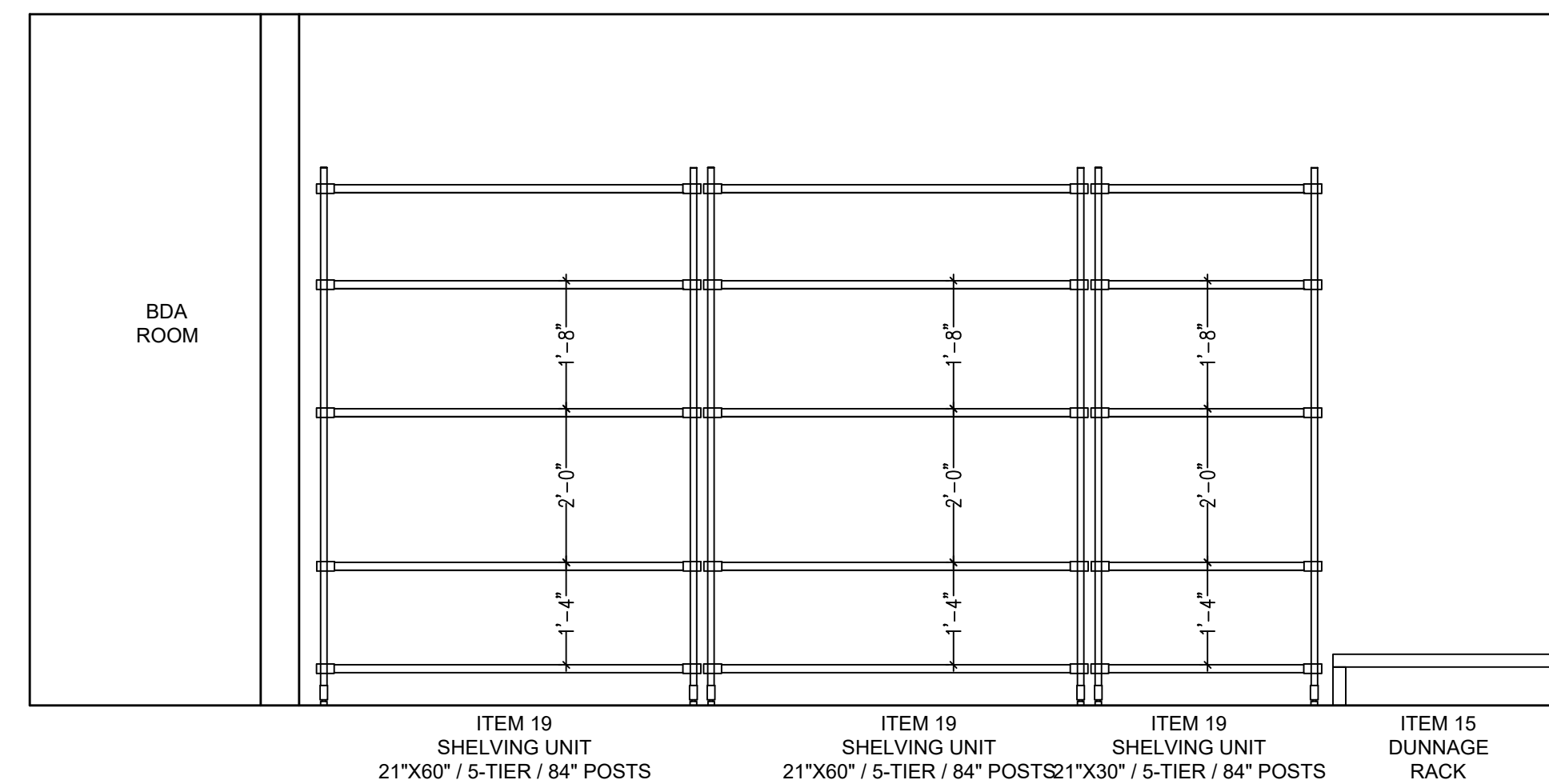
ELEVATION 11 - 1/2" = 1'-0"



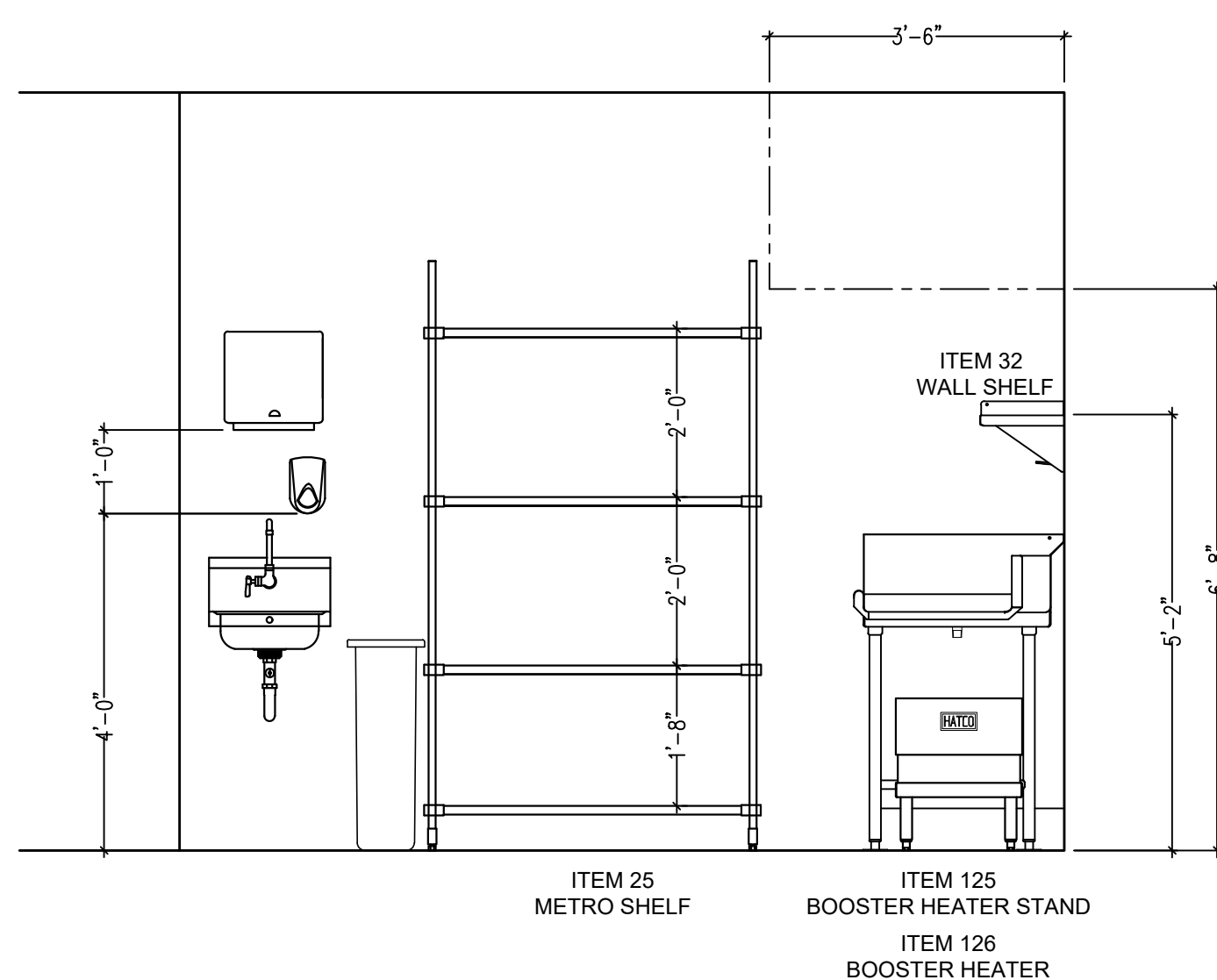
ELEVATION 12 - 1/2" = 1'-0"



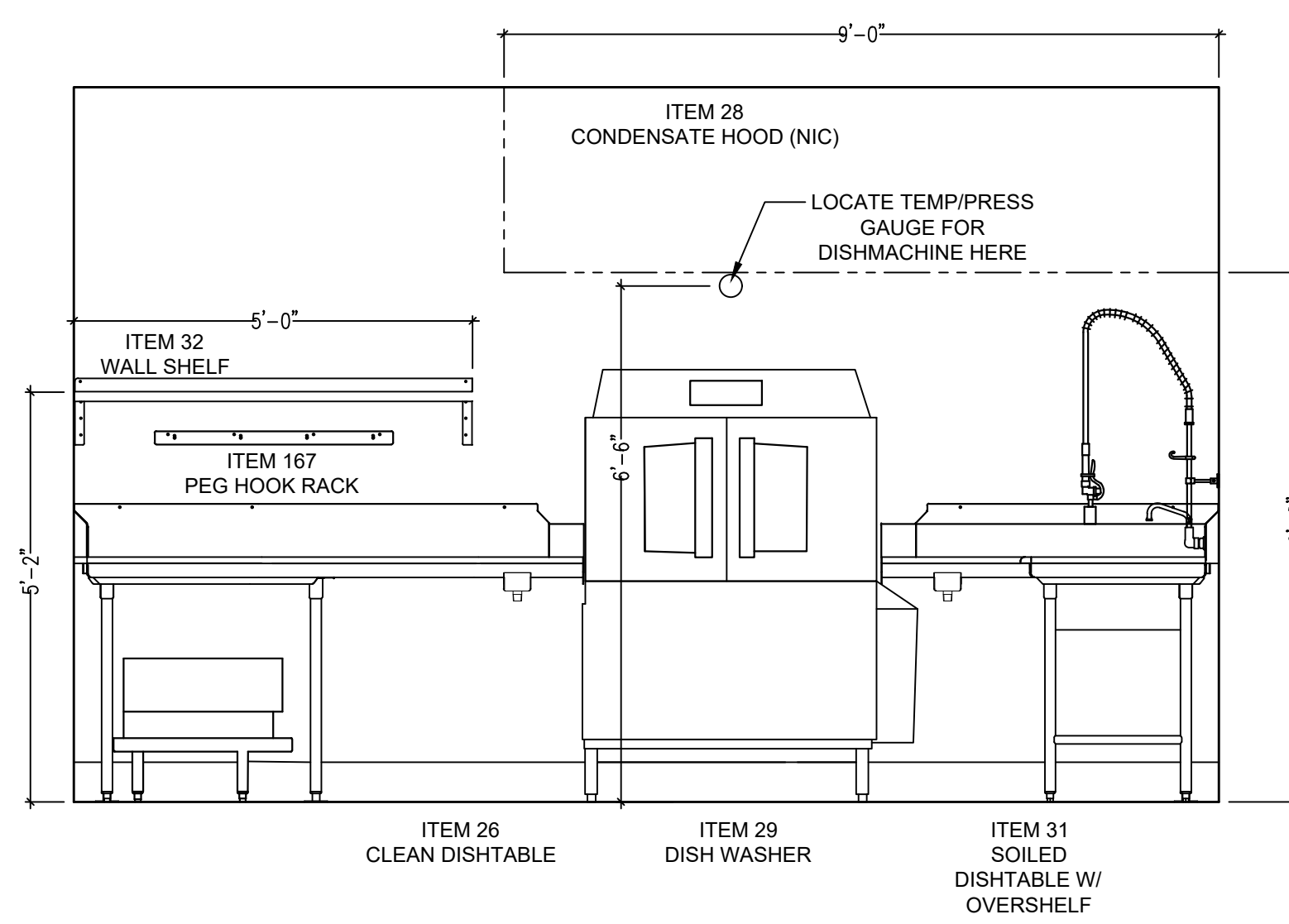
ELEVATION 13 - 1/2" = 1'-0"



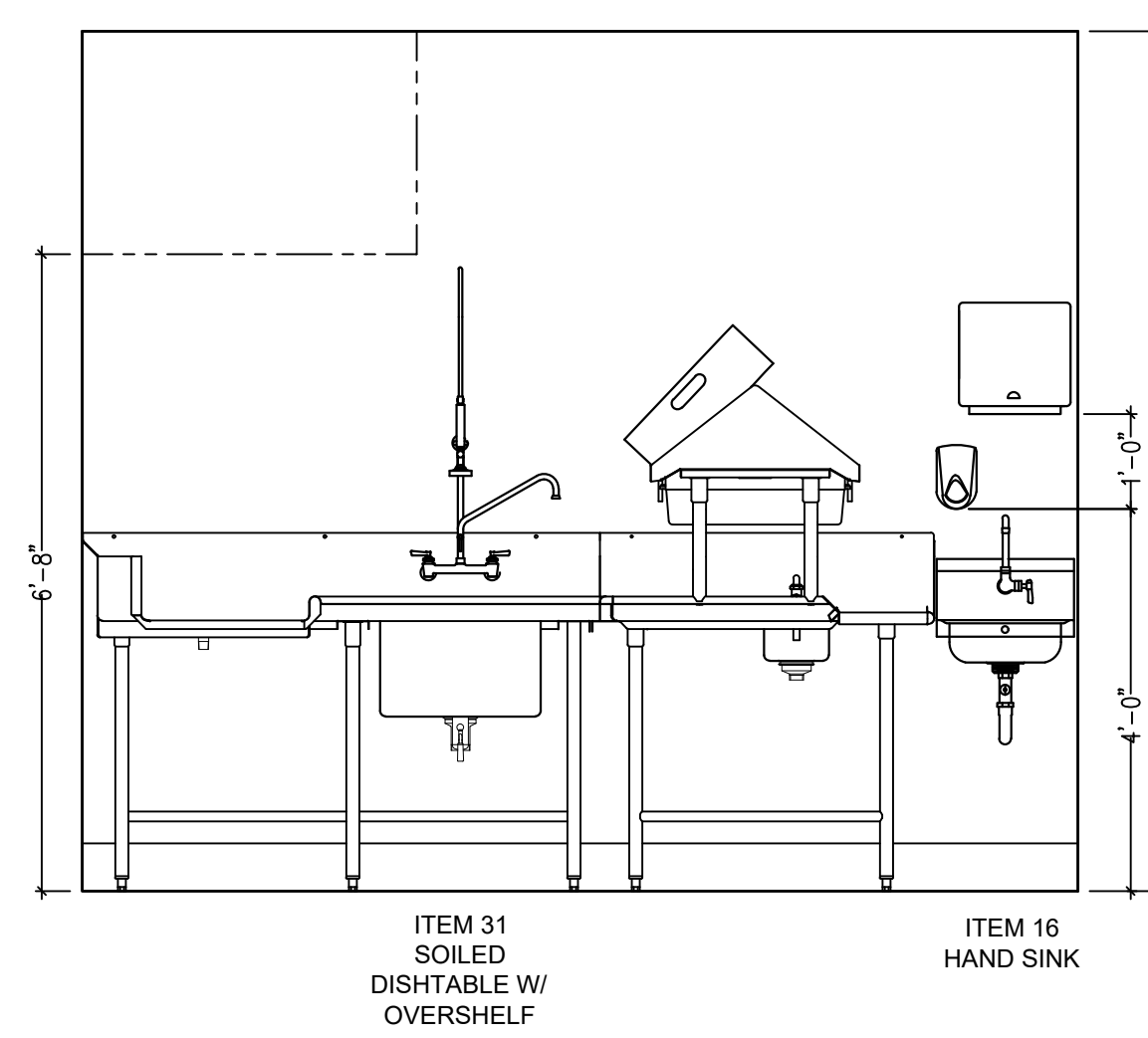
ELEVATION 14 - 1/2" = 1'-0"



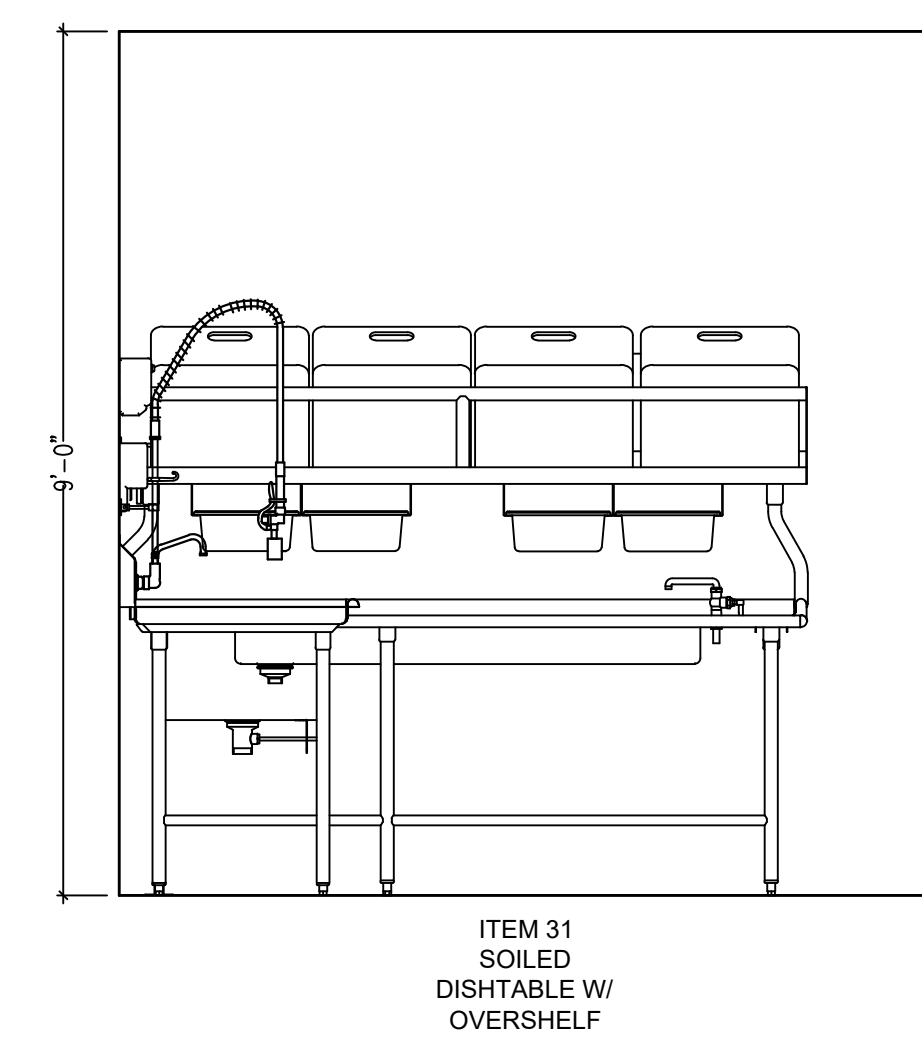
ELEVATION 15 - 1/2" = 1'-0"



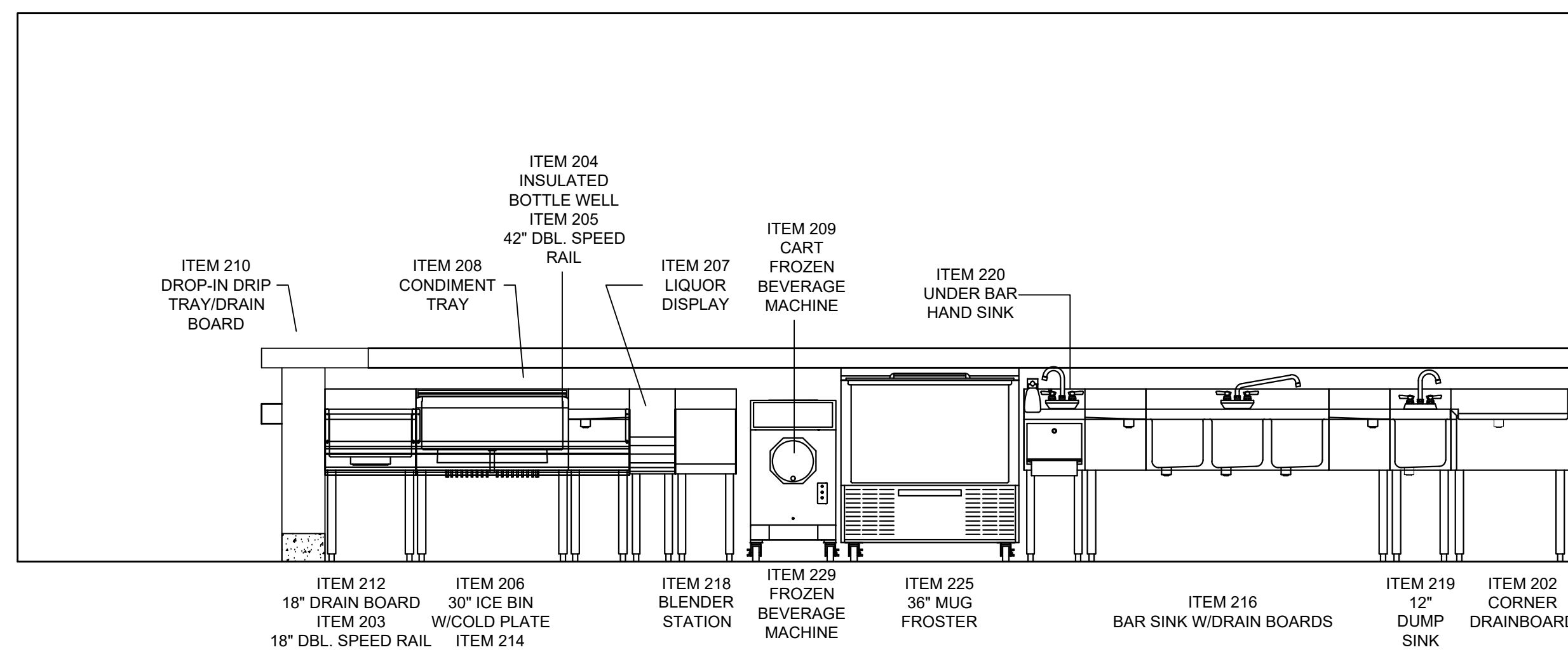
ELEVATION 16 - 1/2" = 1'-0"



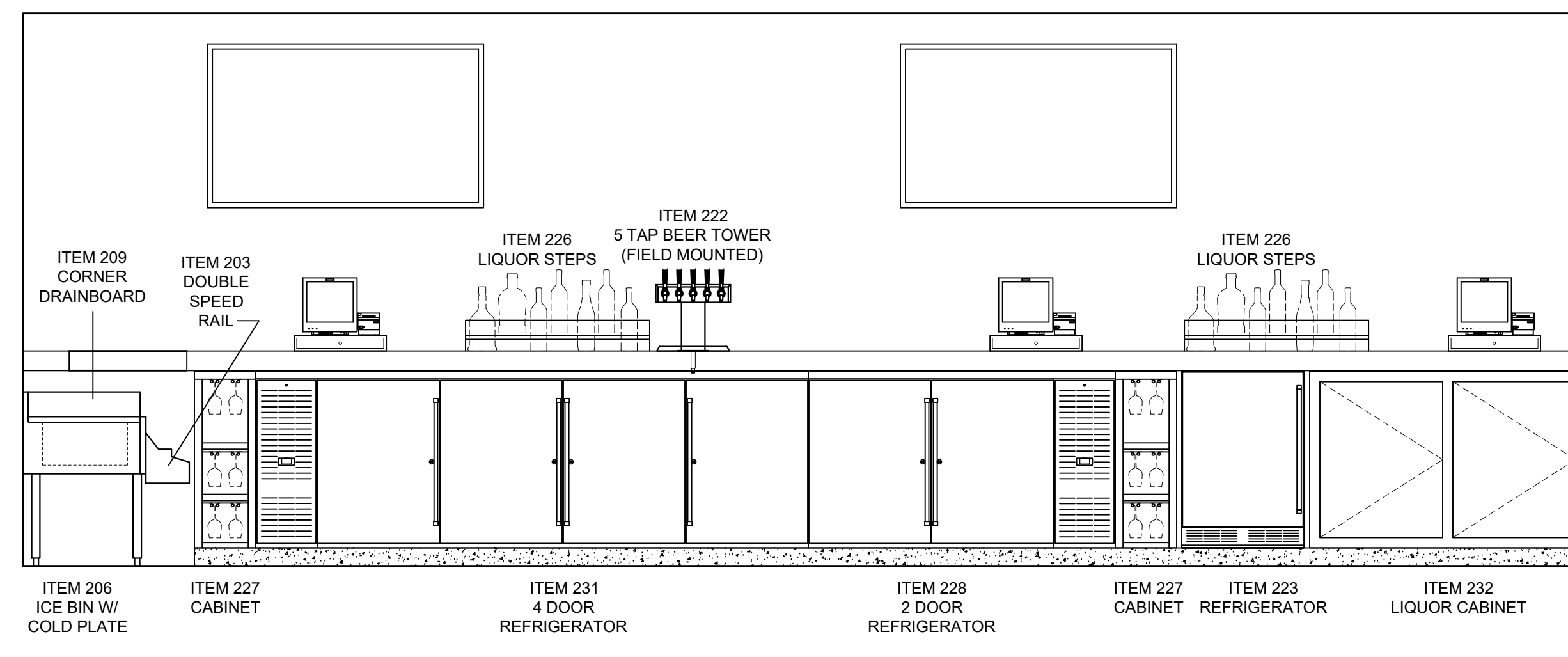
ELEVATION 17 - 1/2" = 1'-0"



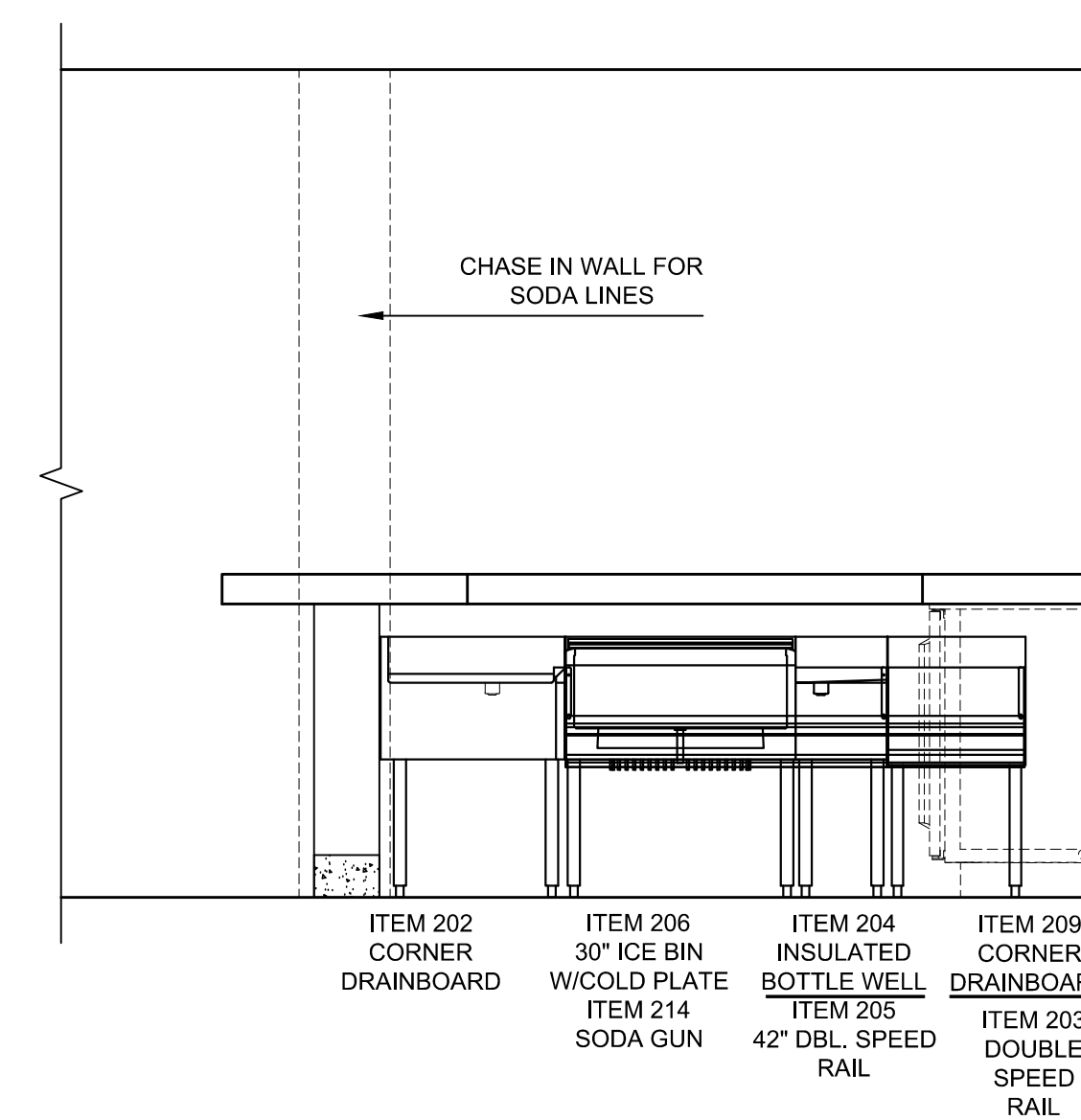
ELEVATION 18 - 1/2" = 1'-0"



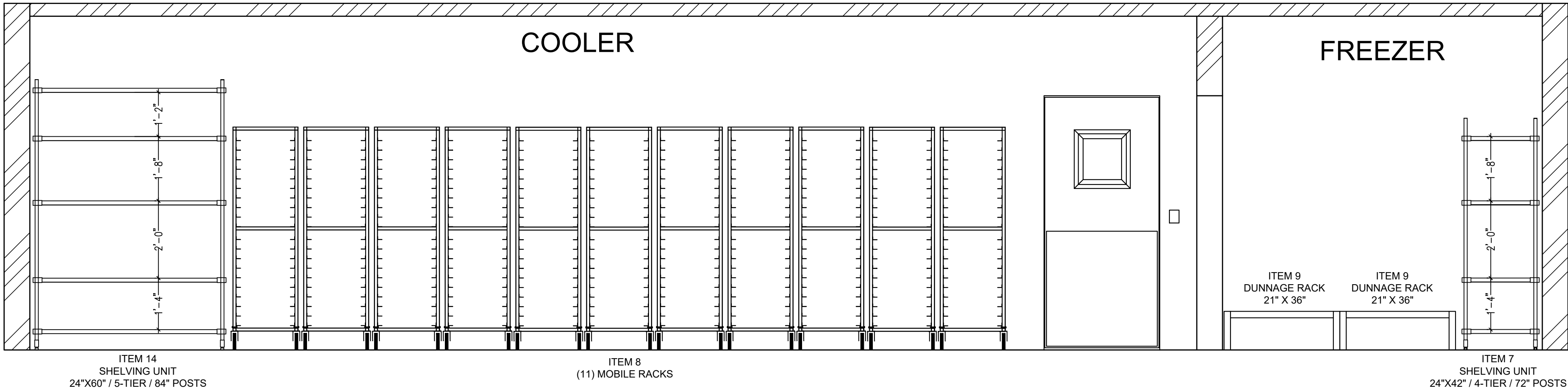
ELEVATION 19 - 1/2" = 1'-0"



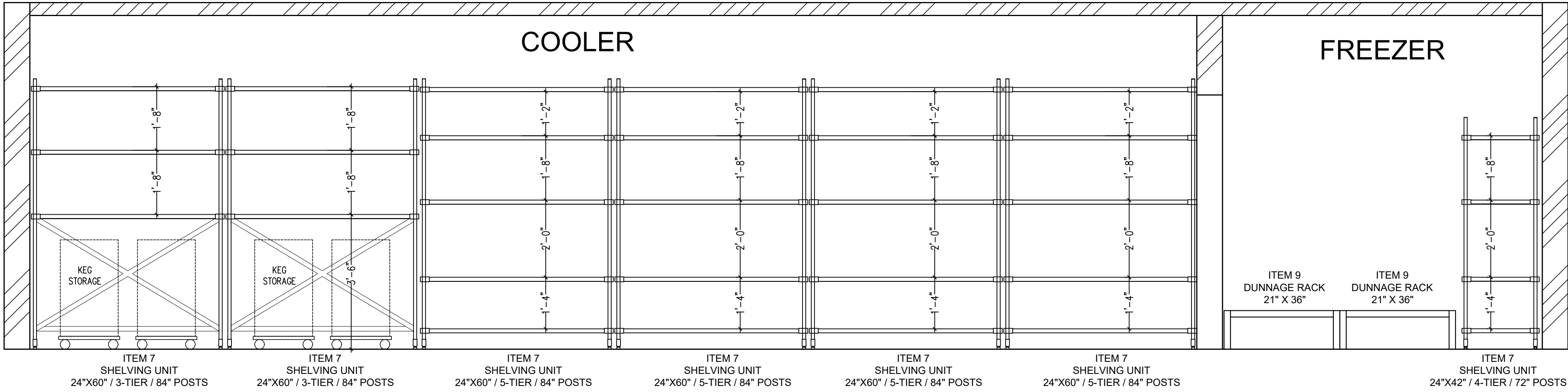
ELEVATION 20 - 1/2" = 1'-0"



ELEVATION 21 - 1/2" = 1'-0"



ELEVATION 23 - 1/2" = 1'-0"



ELEVATION 24 - 1/2" = 1'-0"

ELECTRICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CONDUIT		SIMPLEX RECEPTACLE, WALL/ABOVE CTR/FLR/CEILING
	CONDUIT IN OR UNDER FLOOR		DUPLEX RECEPTACLE, WALL/ABOVE CTR/FLR/CEILING
	CONDUIT STUBBED UP		QUADRUPLEX RECEPTACLE, WALL/ABOVE CTR/FLR/CEILING
	CONDUIT STUBBED DOWN		GROUND FAULT CIRCUIT INTERRUPTER RCPT.
	CONTINUATION		GFCI RCPT., WALL/ABOVE CTR/FLR/CEILING
	H-1.5		USB DUPLEX RECEPTACLE
	H-1/3/5		ISOLATED GROUND DUPLEX RECEPTACLE
	2X4 FLUORESCENT LIGHTING FIXTURE NORMAL/EMERGENCY		ISOLATED GROUND QUAD. RECEPTACLE
	2X2 FLUORESCENT LIGHTING FIXTURE NORMAL/EMERGENCY		HALF-SWITCHED DUPLEX RECEPTACLE
	1X4 FLUORESCENT LIGHTING FIXTURE		POKE-THROUGH DEVICE
	FLUORESCENT LIGHTING FIXTURE, WALL MTD. NORMAL/EMERGENCY		SPECIAL RECEPTACLE AS NOTED
	FLUORESCENT STRIP FIXTURE, NORMAL/EMERGENCY		CEILING MOUNTED JUNCTION BOX
	UNDERCABINET FIXTURE (VERIFY LENGTHS)		WALL JUNCTION BOX
	RECESSED DOWNLIGHT, NORMAL/EMERGENCY		FURNITURE/EQUIPMENT CONNECTION
	PENDANT FIXTURE		POWER POLE
	WALL WASHER		MULTI-OUTLET ASSEMBLY (PLUG/MOLD)
	WALL MOUNTED FIXTURE, NORMAL/EMERGENCY		PANELBOARD, SURFACE MOUNTED
	LIGHTING TRACK WITH TRACK FIXTURES		PANELBOARD, FLUSH MOUNTED
	FANLIGHT COMBINATION FIXTURE		DISTRIBUTION PANEL/SWITCHBOARD
	FLOOD LIGHT FIXTURE		WIREWAY
	SINGLE HEAD POLE LIGHT FIXTURE		METER
	DUAL HEAD POLE LIGHT FIXTURE		MOTOR CONNECTION
	THREE HEAD POLE LIGHT FIXTURE		NON-FUSED DISCONNECT SWITCH
	FOUR HEAD POLE LIGHT FIXTURE		FUSED DISCONNECT SWITCH, XX-SWITCH RATING, Y-NUMBER OF POLES, ZZAF-FUSE RATING
	EXIT LIGHT FIXTURE - FACES & CHEVRONS AS SHOWN		MAGNETIC MOTOR STARTER, XX-SIZE INDICATED
	WALL MOUNTED EXIT LIGHT FIXTURE		COMB. MAGNETIC STARTER/DISCONNECT SWITCH
	EMERGENCY BATTERY PACK LIGHT		VFD
	COMBINATION EXIT/EMERGENCY BATTERY PACK LIGHT		LOW VOLTAGE TRANSFORMER
	REMOTE EMERGENCY HEAD		GROUND BAR
	SINGLE POLE TOGGLE SWITCH		AUTOMATIC TRANSFER SWITCH
	THREE-WAY TOGGLE SWITCH		PUSHBUTTON
	FOUR-WAY TOGGLE SWITCH		TELEPHONE OUTLET, WALL/ABOVE CTR/FLR/CEILING
	OCCUPANCY SENSOR WALL SWITCH		DATA OUTLET, WALL/ABOVE CTR/FLR/CEILING
	MOMENTARY CONTROL SWITCH		COMBINATION TELE./DATA OUTLET, WALL/ABOVE CTR/FLR/CLG
	MOTOR RATED SWITCH W/THERMAL OVERLOAD		FLOOR TV OUTLET
	KEY OPERATED SWITCH		WALL TV OUTLET
	SWITCH WITH TIMER		CEILING MOUNTED TV OUTLET
	DIMMER SWITCH		TELEPHONE BACKBOARD
	CEILING OCCUPANCY SENSOR		
	WALL OCCUPANCY SENSOR		
	TIME CLOCK		
	PHOTOCELL		
NOTE: NOT ALL SYMBOLS MAY APPLY - REFER TO FLOOR PLANS			

FIRE ALARM SYSTEM

A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM SHALL BE PROVIDED AND INSTALLED THROUGHOUT THE ENTIRE AREA OF THE BUILDING, AS REQUIRED, BY A FIRM LICENSED TO DESIGN AND INSTALL FIRE ALARM SYSTEMS IN THE PHYSICAL JURISDICTION OF THE BUILDING(S) IN WHICH THE SYSTEM IS TO BE INSTALLED. THE FIRM SHALL HAVE ALL CREDENTIALS AND PROOF OF REQUIRED INSURANCE SUBMITTED WITH THE BID DOCUMENTS. COMPLETE FIRE ALARM PLANS AND EQUIPMENT CUTS/SHEETS FOR ALL FIRE ALARM EQUIPMENT SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW, APPROVAL, AND PERMIT PRIOR TO INSTALLATION. SUBMITTAL DOCUMENTS SHALL INCLUDE VOLTAGE DROP CALCULATIONS FOR ALL FIRE ALARM CONDUCTORS. ALL OF THE SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE DESIGN TEAM AND ENGINEER FOR REVIEW TO ENSURE THE SYSTEM DOES NOT, WITHIN THE LIMITS OF THE APPLICABLE CODES AND REQUIREMENTS, CONFLICT WITH THE ARCHITECTURAL INTENT OF THE BUILDING(S).

THE COMPLETED FIRE ALARM SYSTEM SHALL BE AN INTELLIGENT ADDRESSABLE SYSTEM AND SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS. THE SYSTEM SHALL INCLUDE ALL DEVICES SUCH AS, BUT NOT LIMITED TO, FLOW AND TAMPER SWITCHES, SMOKE DETECTORS, HEAT DETECTORS, DUCT SMOKE DETECTORS, IN THE SUPPLY AND/OR RETURN AS REQUIRED BY CODE AND BY THE LOCAL AUTHORITY HAVING JURISDICTION, DETECTORS AT ALL FIRE/ SMOKE DAMPERS, SHUNT / TRIP CONTROL OF ELEVATORS, NOTIFICATION DEVICES AS REQUIRED BY APPLICABLE CODE. LOCAL AUTHORITY HAVING JURISDICTION, AND THE OWNER'S DESIGN STANDARDS. NOTIFICATION DEVICES SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 1990 AND ALL OTHER SUCH LOCAL CODES. THE FIRE ALARM SYSTEM SHALL BE EQUIPPED WITH A COMPUTER BASED CONTROL SOFTWARE PACKAGE THAT WILL PROVIDE FOR OFF-SITE MONITORING AND CONTROL. THE CONTROL SYSTEM SHALL BE CAPABLE OF PROVIDING GRAPHIC DISPLAY SHOWING LOCATIONS AND STATE OF THE FIRE ALARM DEVICES. THE FIRE ALARM CONTROL SYSTEM SHALL BE CAPABLE OF PRODUCING A COMPLETE HISTORY LOG OR REPORT.

THE CONTRACTOR SHALL BE FAMILIAR WITH ALL APPLICABLE CODES, REQUIREMENTS BY THE LOCAL AUTHORITY HAVING JURISDICTION, AND THE OWNER'S STANDARDS FOR CONSTRUCTION AND OPERATION OF FIRE ALARM SYSTEMS. ANY CHANGES TO THE FINAL INSTALLATION DUE TO THE CONTRACTOR NOT HAVING BEEN AWARE OF ANY OF THE ABOVE SHALL BE MADE AT A NO COST TO THE OWNER, ENGINEER, OR DESIGN TEAM.

FIRE ALARM DEVICES ON THESE DRAWINGS DO NOT CONSTITUTE A COMPLETE FIRE ALARM SYSTEM DESIGN. THEY ARE SHOWN FOR COORDINATION AND PREFERRED DEVICE LOCATION PURPOSES.

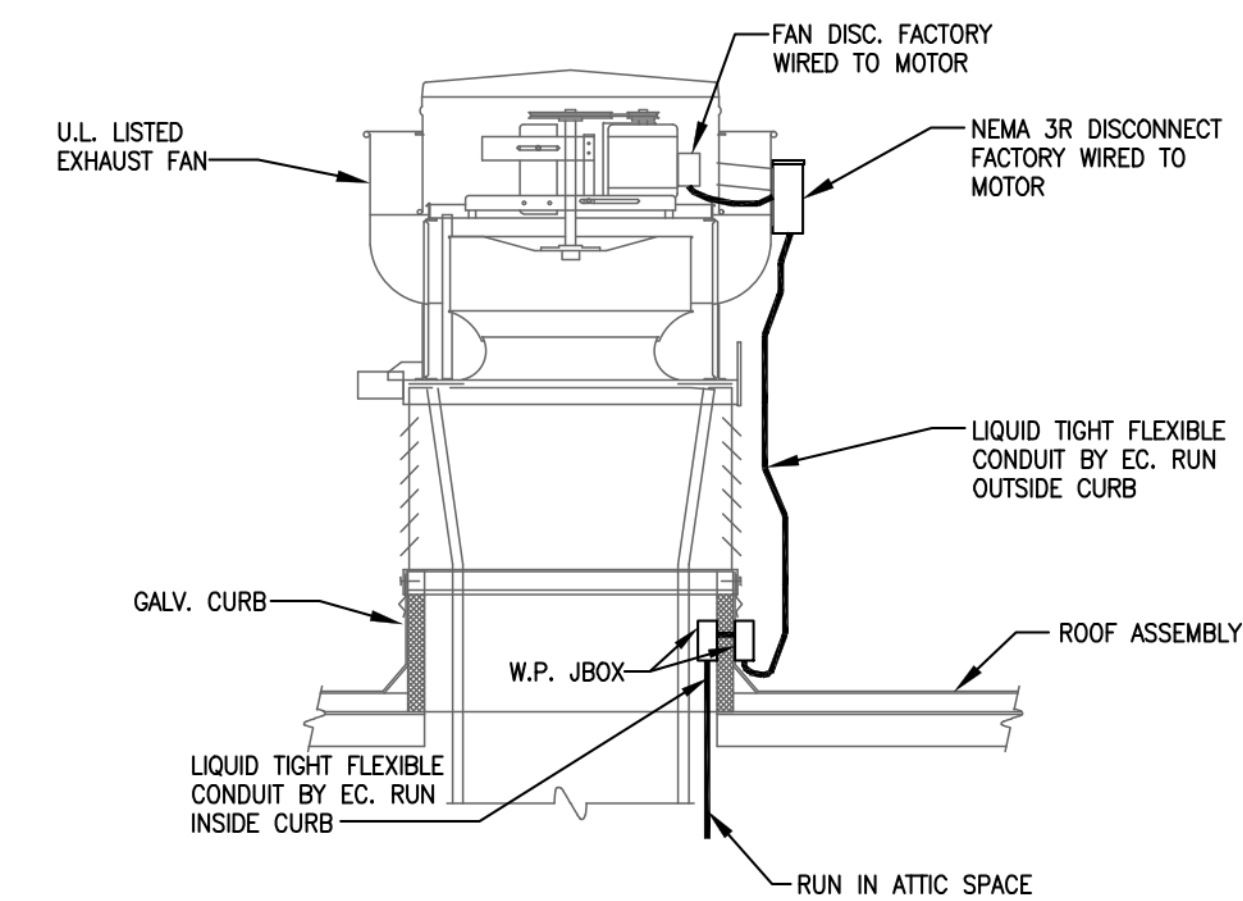
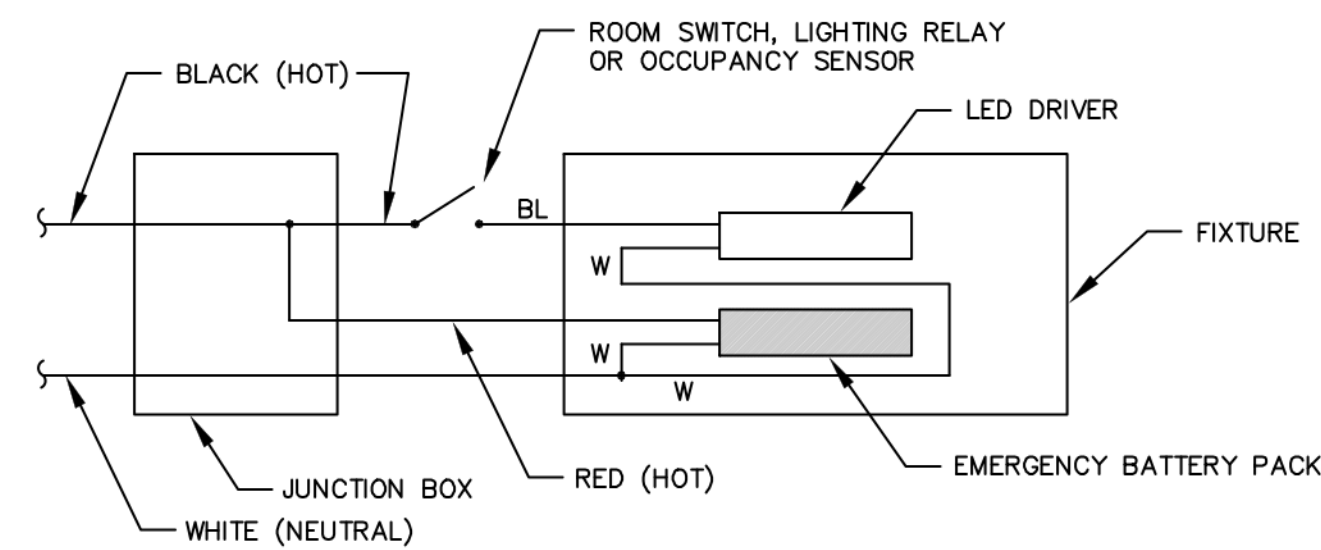
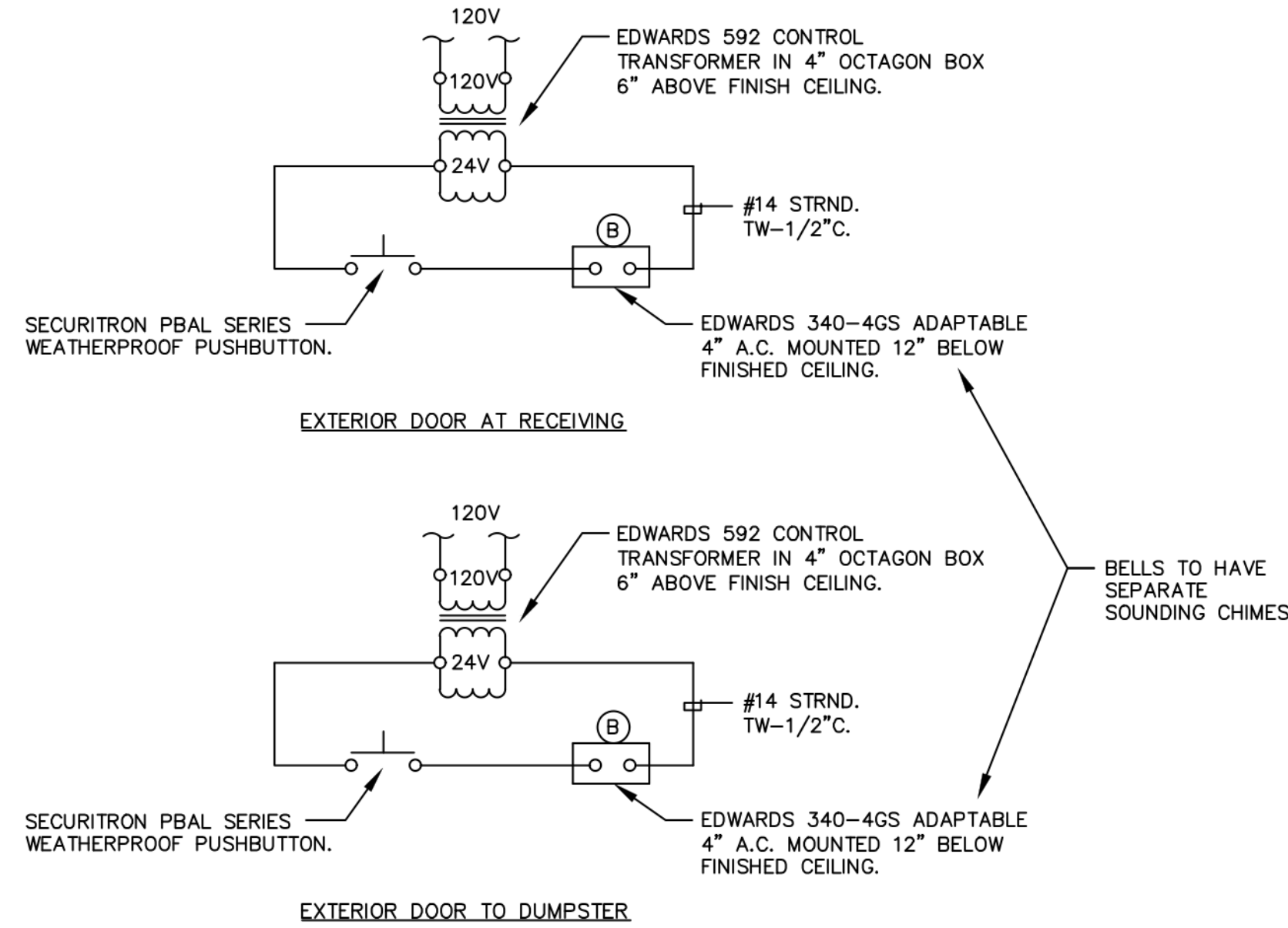
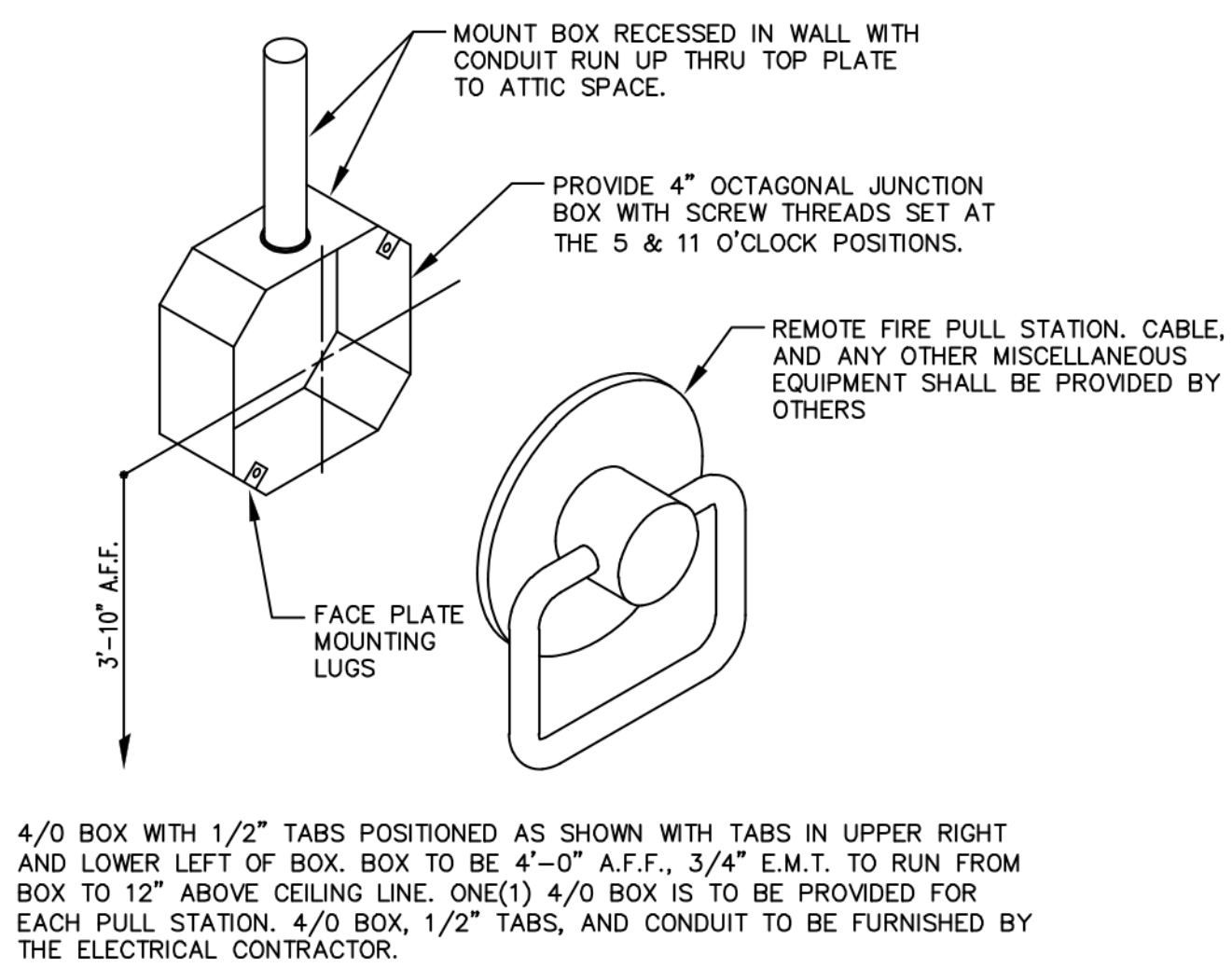
FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
	CEILING MOUNTED SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	UNDERFLOOR MTD. SMOKE DETECTOR
	UNDERFLOOR DUCT MTD. SMOKE DETECTOR
	CEILING MOUNTED HEAT DETECTOR
	SMOKE BEAM TRANSMITTER
	SMOKE BEAM RECEIVER
	MANUAL PULL STATION
	FIRE ALARM HORN-WALL MOUNT
	FIRE ALARM AUDIO/VISUAL SIGNAL-WALL MT
	FIRE ALARM VISUAL SIGNAL-WALL MOUNT
	FIRE ALARM AUDIO/VISUAL SIGNAL-CEILING MOUNT
	FIRE ALARM VISUAL SIGNAL-CEILING MOUNT
	FIRE ALARM SPEAKER/SROBE-CEILING MOUNT
	FIRE ALARM FLAME DETECTOR-CEILING MOUNT
	FIREMAN HANDSET JACK
	EMERGENCY TELEPHONE
	WATERFLOW & TAMPER SWITCH
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL

NOTE: NOT ALL SYMBOLS USED

KITCHEN EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

ITEM NO.	DESCRIPTION	TYPE	VOLTAGE	PHASE	AMPS	HGT AFF	REMARKS	CIRCUIT NUMBER
E1	WALK-IN COOLER	BTC THRU JUNCTION BOX	120 V	1	5.0 A	112"	DIV. 16 TO MOUNT & WIRE KEC FURNISHED LIGHTS SHIPPED LOOSE	B-16
E2	EVAPORATOR COIL	BTC THRU JUNCTION BOX	120 V	1	1.6 A	112"		C-25
E2	EVAPORATOR COIL	BTC THRU JUNCTION BOX	120 V	1	1.6 A	112"		C-25
E2	EVAPORATOR COIL	BTC THRU JUNCTION BOX	120 V	1	1.6 A	108"		C-27
E3	REMOTE CONDENSING UNIT, AIR COOLED	BTC THRU JUNCTION BOX	208 V	3	16.6 A			B-24,B
E11	WALK-IN FREEZER	BTC THRU JUNCTION BOX	120 V	1	5.0 A	112"	DIV. 16 TO MOUNT & WIRE KEC FURNISHED LIGHTS SHIPPED LOOSE & INTERWIRE DOOR HEATER	B-29
E12	EVAPORATOR COIL	BTC THRU JUNCTION BOX	208 V	3	0.5 A	112"		C-26,28,30
E13	REMOTE CONDENSING UNIT, AIR COOLED	BTC THRU JUNCTION BOX	208 V	3	12.6 A			M-30,32,34
E22	AIR CURTAIN	SIMPLEX NEMA 5-20R	120 V	1	10.0 A	90"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	A-22
E22	AIR CURTAIN	SIMPLEX NEMA 5-20R	120 V	1	10.0 A	90"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	A-26
E28	CONDENSATE HOOD	BTC THRU JUNCTION BOX	120 V	1	15.0 A	48"		D-33
E29	DISHWASHER, CONVEYOR TYPE	BTC THRU JUNCTION BOX	208 V	3	56.0 A	72"	DIV. 16 TO FURNISH & INSTALL DISCONNECT SWITCH	MDP-37,39,41
E35	AIR CURTAIN	SIMPLEX NEMA 5-20R	120 V	1	10.0 A	90"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-24
E36	FREEZER COUNTER, WORK TOP	SIMPLEX NEMA 5-20R	120 V	1	4.7 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-1
E38	FOOD PROCESSOR, BENCHTOP/COUNTERTOP	SIMPLEX NEMA 5-20R	120 V	1	12.0 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-16
E39	SALAD/VEGETABLE DRYER, ELECTRIC	SIMPLEX NEMA 5-20R	120 V	1	2.5 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-4
E46	FOOD SLICER, ELECTRIC	SIMPLEX NEMA 5-20R	120 V	1	7.0 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-12
E51	FOOT-OPERATED IMPULSE BAG SEALER	SIMPLEX NEMA 5-20R	120 V	1	8.0 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-18
E52	MINI CHILL UNIT	SIMPLEX NEMA 5-20R	120 V	1	3.5 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-20
E52	MINI CHILL UNIT	SIMPLEX NEMA 5-20R	120 V	1	3.5 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-5
E53	PROOFER CABINET, MOBILE, UNDERCOUNTER	SIMPLEX NEMA 5-20R	120 V	1	15.8 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-7
E57	30 QUART MIXER	SIMPLEX NEMA 5-20R	120 V	1	15.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-2
E63	RETHERMALIZER, WATER TANK, ELECTRIC	SIMPLEX NEMA 1.6-30P	208 V	1	28.8 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-22,24
E65	HEATED CABINET, MOBILE	SIMPLEX NEMA 5-20R	120 V	1	16.0 A	78"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-13
E66	THAW BOX	SIMPLEX NEMA 5-20R	120 V	1	7.2 A	86"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-10
E71	OIL COLLECTION SYSTEM	SIMPLEX NEMA 5-20R	120 V	1	6.4 A	96"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-36
E74	FRYER, OIL DISPOSAL, CART	SIMPLEX NEMA 5-20R	120 V	1	12.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-34
E79	REFRIGERATED BATTER STATION	SIMPLEX NEMA 5-20R	120 V	1	10.0 A	16"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-8
E82	HOT FOOD WELL	SIMPLEX NEMA 5-20R	120 V	1	3.3 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-41
E85A	REFRIGERATOR PREP TABLE	SIMPLEX NEMA 5-20R	120 V	1	4.7 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-32
E89	SALAD PREP/PARTY REFRIGERATOR	SIMPLEX NEMA 5-20R	120 V	1	6.5 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-7
E100	TORTILLA PRESS	SIMPLEX NEMA 5-20R	120 V	1	15.0 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-26
E101	TOASTER, CONTACT GRILL, CONVEYOR TYPE	SIMPLEX NEMA 5-20R	208 V	1	13.5 A	72"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-6,11
E105	METRO CARRYOUT STATION (HOT)	SIMPLEX NEMA 5-20R	120 V	1	10.0 A	48"		B-18
E106	MICROWAVE OVEN	SIMPLEX NEMA 6-15R	208 V	1	15.3 A	72"	BUILT INTO #131 EXPO COUNTER, DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-21,23
E106	MICROWAVE OVEN	SIMPLEX NEMA 6-15R	208 V	1	15.3 A	72"	BUILT INTO #131 EXPO COUNTER, DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-25,27
E106	MICROWAVE OVEN	SIMPLEX NEMA 6-15R	208 V	1	15.3 A	72"		B-37,39
E107	REFRIGERATOR PREP TABLE	SIMPLEX NEMA 5-20R	120 V	1	6.5 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	C-1
E108	HEAT LAMP, STRIP TYPE	BTC THRU JUNCTION BOX	208 V	1	17.5 A	108"	POWER FROM REMOTE CONTROL BOXES (ITEM 108.1) DIV. 16 TO INTERWIRE TO REMOTE CONTROL BOXES AS REQD.	B-10
E116	HOT FOOD WELL TABLE, ELECTRIC	SIMPLEX NEMA 6-30R	208 V	1	15.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-36
E118	CROSSSTAIN SERVER W/STAND	SIMPLEX NEMA 5-20R	120 V	1	11.9 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	M-36
E121	THERMO FINISHER	SIMPLEX NEMA 6-20R	208 V	1	16.0 A	18"		A-31,33
E122	HOT FOOD WELL TABLE, ELECTRIC	SIMPLEX NEMA 5-30R	120 V	1	17.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-28
E126	BOOSTER HEATER, ELECTRIC	BTC THRU JUNCTION BOX	208 V	3	83.3 A	24"	DIV. 16 TO FURNISH & INSTALL DISCONNECT SWITCH	MDP-31,33,35
E130	NACHO CHIP WARMER, BULK	SIMPLEX NEMA 5-20R	120 V	1	12.6 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-36
E131	EXPO COUNTER, REFRIGERATED	BTC THRU JUNCTION BOX	120 V	1	20.0 A	16"	VERIFY FINAL ELECTRICAL REQUIREMENTS WITH KEC/ FABRICATOR'S SHOP DRAWINGS	B-19
E132	FOOD WARMER	SIMPLEX NEMA 5-20R	120 V	1	13.8 A	44"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-14
E134	UNDER COUNTER REFRIGERATOR	SIMPLEX NEMA 5-20R	120 V	1	2.5 A	18"	BUILT INTO #131 EXPO COUNTER, DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-12
E136	ICE CREAM DIPPING CABINET, DROP-IN	SIMPLEX NEMA 5-20R	120 V	1	1.6 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-34
E141	HEAT LAMP, STRIP TYPE	BTC THRU JUNCTION BOX	208 V	1	23.2 A	108"	ELECTRICIAN TO BRING SERVICE DOWN FROM CEILING VIA SIS CHASE INTEGRAL WITH OVERSHELF, ITEM #114, ETC @ CONTROL HOUSING IN EQUIPMENT	B-20,22
E143	CUBER ICE MACHINE	BTC THRU JUNCTION BOX	208 V	3	8.4 A	98"		M-24,26,28
E143	CUBER ICE MACHINE	BTC THRU JUNCTION BOX	208 V	3	8.4 A	98"		M-24,26,28
E143	CUBER ICE MACHINE	SIMPLEX NEMA 5-20R	120 V	1	3.0 A	98"		M-36
E143	CUBER ICE MACHINE	SIMPLEX NEMA 5-20R	120 V	1	3.0 A	98"		M-37
E148	CARBONATOR	BTC THRU JUNCTION BOX	120 V	1	16.0 A	86"	VERIFY FINAL ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.	D-20
E148	CARBONATOR	BTC THRU JUNCTION BOX	120 V	1	16.0 A	86"	VERIFY FINAL ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.	D-22
E148	CARBONATOR	BTC THRU JUNCTION BOX	120 V	1	16.0 A	86"	VERIFY FINAL ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.	D-26
E152	SALAD PREP TABLE	SIMPLEX NEMA 5-20R	120 V	1	6.5 A	18"		B-3
E160	TEA BREWER	SIMPLEX NEMA 5-20R	120 V	1	14.0 A	54"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-11
E160	TEA BREWER	SIMPLEX NEMA 5-20R	120 V	1	14.0 A	54"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-15
E161	COFFEE MAKER	SIMPLEX NEMA 5-20R	120 V	1	15.0 A	54"	VERIFY FINAL ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.	B-13
E162	LEMONADE DISPENSER	SIMPLEX NEMA 5-20R	120 V	1	15.0 A	54"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-7
E164	SODA ICE & BEVERAGE DISPENSER	SIMPLEX NEMA 5-20R	120 V	1	15.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-5
E164	SODA ICE & BEVERAGE DISPENSER	SIMPLEX NEMA 5-20R	120 V	1	15.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	B-17
E190.1	FIRE SUPPRESSION SYSTEM	BTC THRU JUNCTION BOX	120 V	1	1.5 A	108"		D-10
E190.2	HOOD CONTROL PANEL	BTC THRU JUNCTION BOX	120 V	1	1.5 A	108"		A-25
E191.1	FIRE SUPPRESSION SYSTEM	BTC THRU JUNCTION BOX	120 V	1	1.5 A	108"		C-6
E198	POS - BUMP SCREEN	DUPLEX NEMA 5-20R	120 V	1	15.0 A	64"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	E-1
E198	POS - BUMP SCREEN	DUPLEX NEMA 5-20R	120 V	1	15.0 A	64"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	E-3
E201.1	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-8
E201.1	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-8
E201.1	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-8
E201.2	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-28
E201.2	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-28
E201.2	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-28
E201.3	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	A-40
E201.3	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	A-40
E202	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-37
E202	CONVENIENCE OUTLET	DUPLEX NEMA 5-20R	120 V	1	1.5 A		DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-37
E211	BLENDER, BAR	SIMPLEX NEMA 5-20R	120 V	1	11.5 A	12"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-4
E223	UNDERCOUNTER REFRIGERATOR, REACH-IN	SIMPLEX NEMA 5-20R	120 V	1	3.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-38
E225	GLASS FROSTER	SIMPLEX NEMA 5-20R	120 V	1	4.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-2
E226	LIQUOR BOTTLE DISPLAY, COUNTERTOP	SIMPLEX NEMA 5-20R	120 V	1	2.0 A	54"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-6
E226	LIQUOR BOTTLE DISPLAY, COUNTERTOP	SIMPLEX NEMA 5-20R	120 V	1	2.0 A	54"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-12
E228	BACONBA REFRIGERATOR	SIMPLEX NEMA 5-20R	120 V	1	4.2 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-42
E229	FROZEN DRINK MACHINE - AIR COOLED	SIMPLEX NEMA 5-20R	120 V	1	26.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-39
E231	BACONBA REFRIGERATOR	SIMPLEX NEMA 5-20R	120 V	1	9.0 A	18"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	D-35
E235	POS - CASH REGISTER	DUPLEX NEMA 5-20R	120 V	1	15.0 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	E-2
E235	POS - CASH REGISTER	DUPLEX NEMA 5-20R	120 V	1	15.0 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	E-2
E235	POS - CASH REGISTER	DUPLEX NEMA 5-20R	120 V	1	15.0 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	E-1
E236	POS - PRINTER	DUPLEX NEMA 5-20R	120 V	1	15.0 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	E-11
E236	POS - PRINTER	DUPLEX NEMA 5-20R	120 V	1	15.0 A	48"	DIV. 16 TO MOUNT OUTLET HORIZONTALLY	E-13



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PROJECT NUMBER
DCH22007

CLIENT

DARDEN RESTAURANTS, INC.
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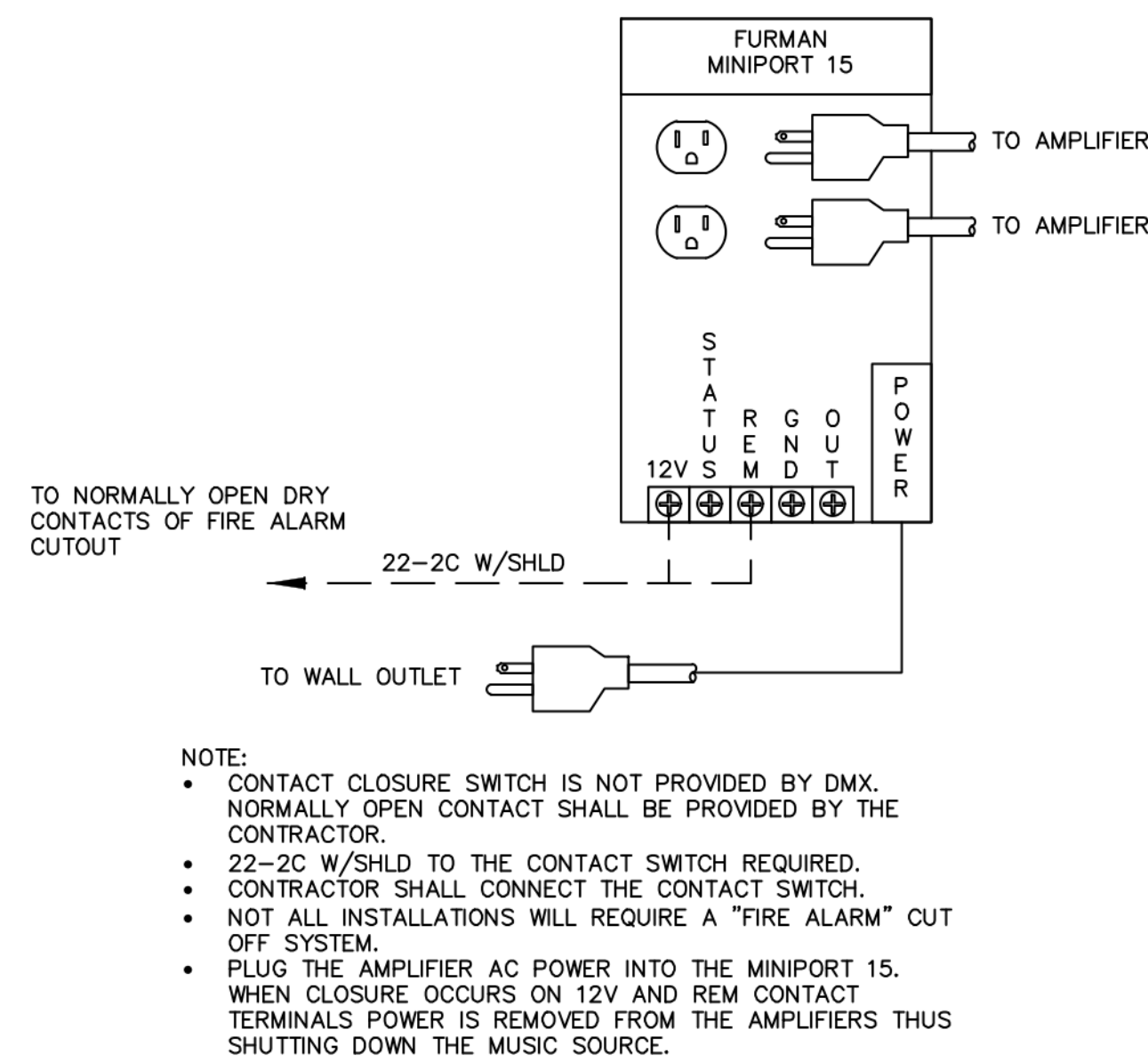
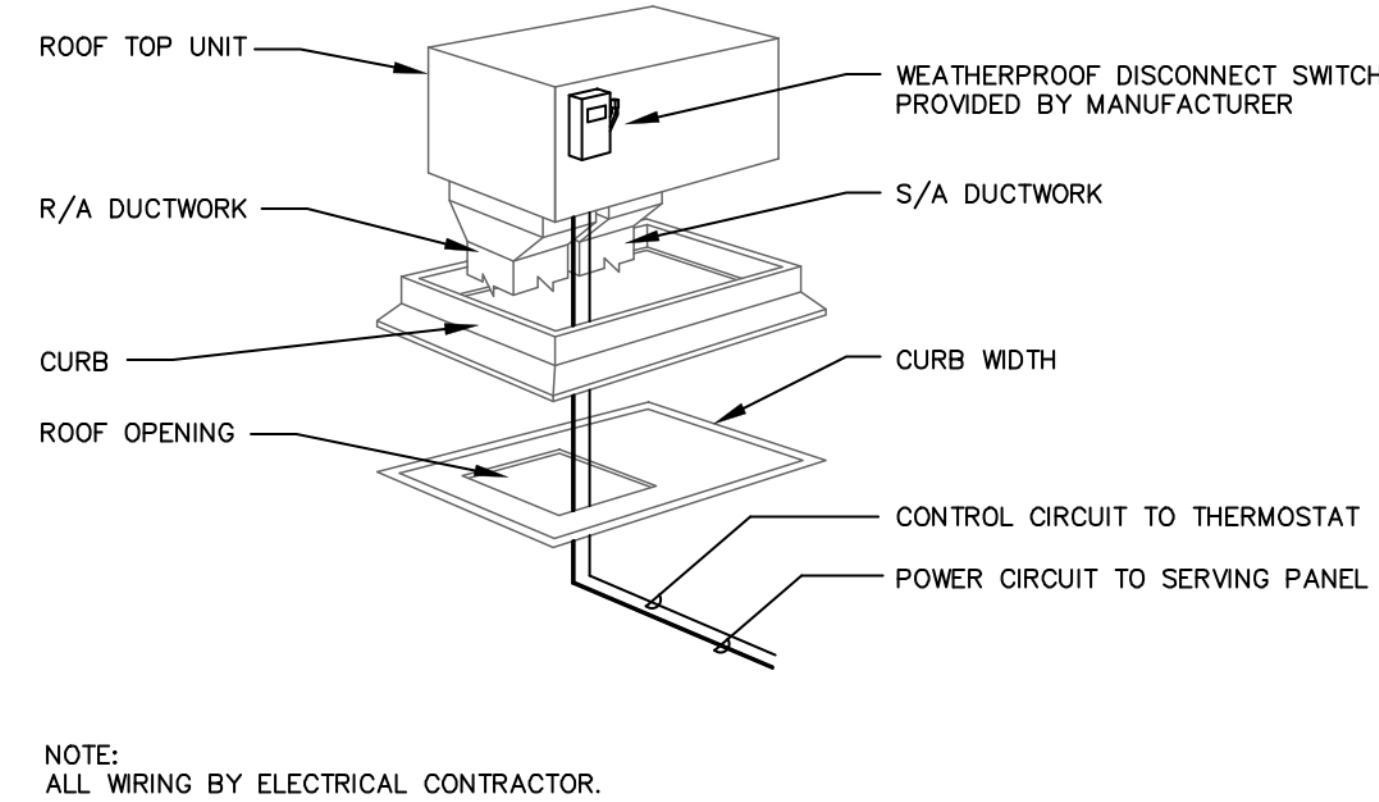
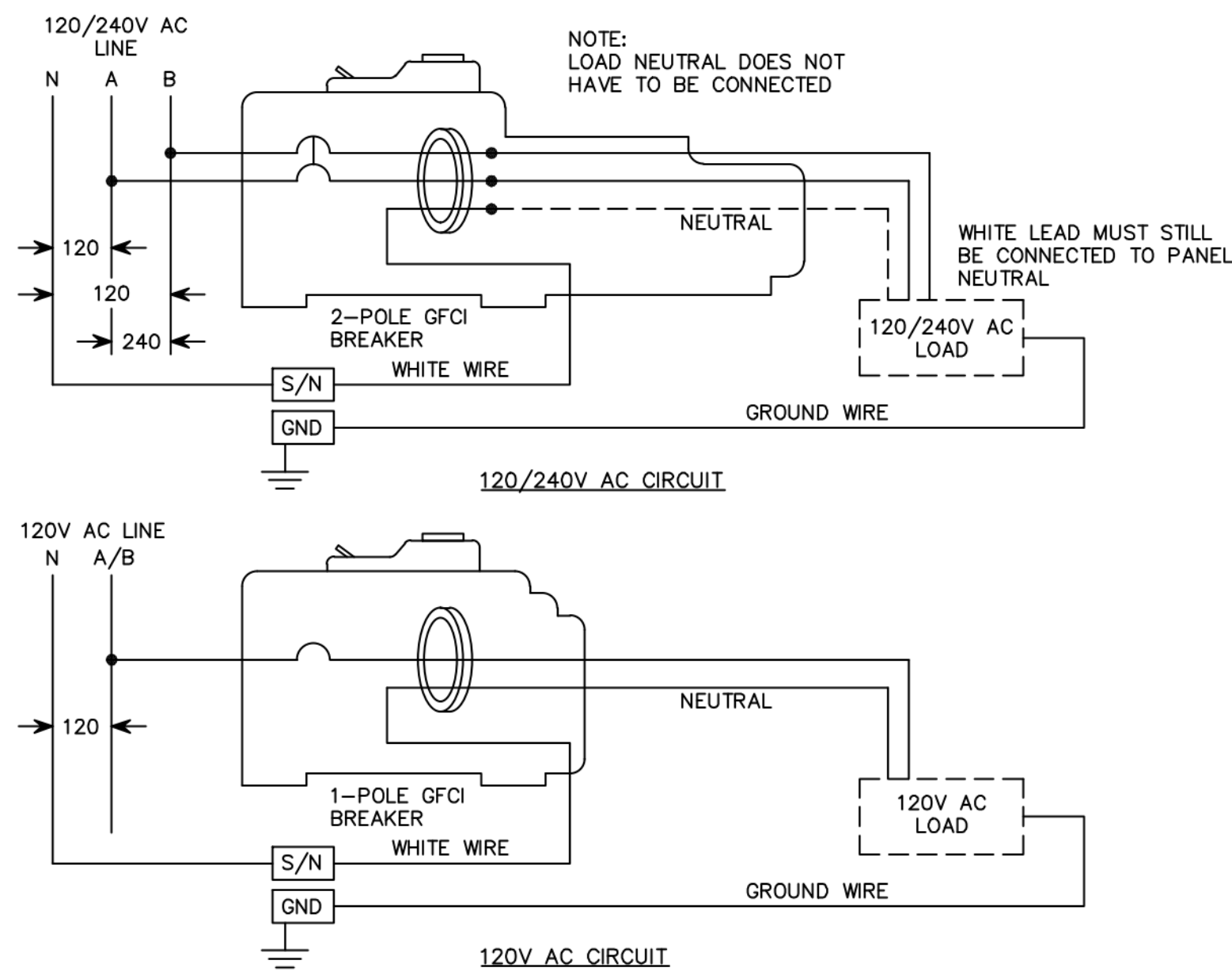
ANSUL PULL STATION DETAIL
SCALE: NONE

DOOR BELL WIRING DIAGRAM

EMERGENCY LIGHTING WIRING DIAGRAM
SCALE: NONE

EXHAUST FAN ELECTRICAL CONNECTION DETAIL

SCALE: NONE

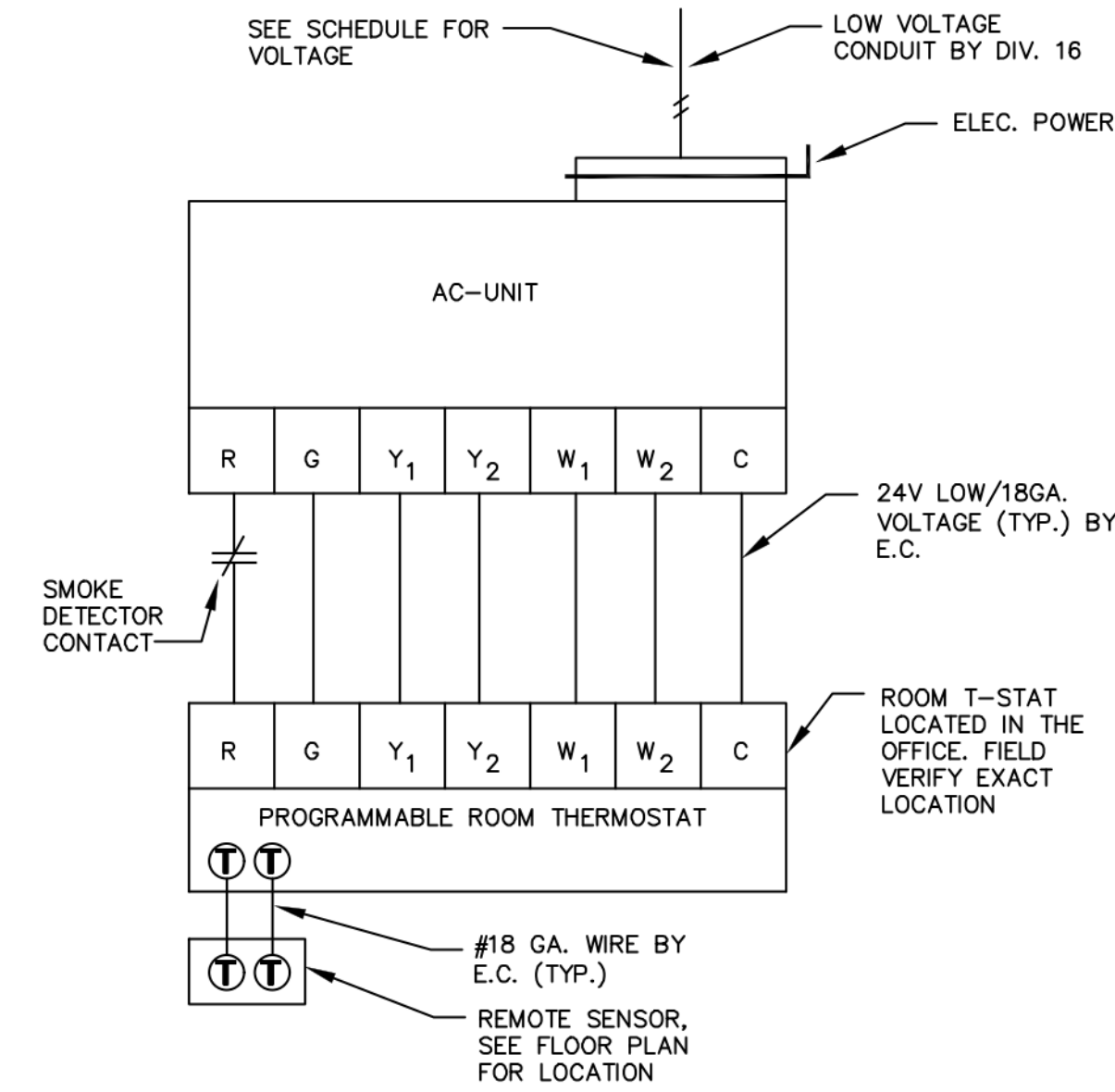
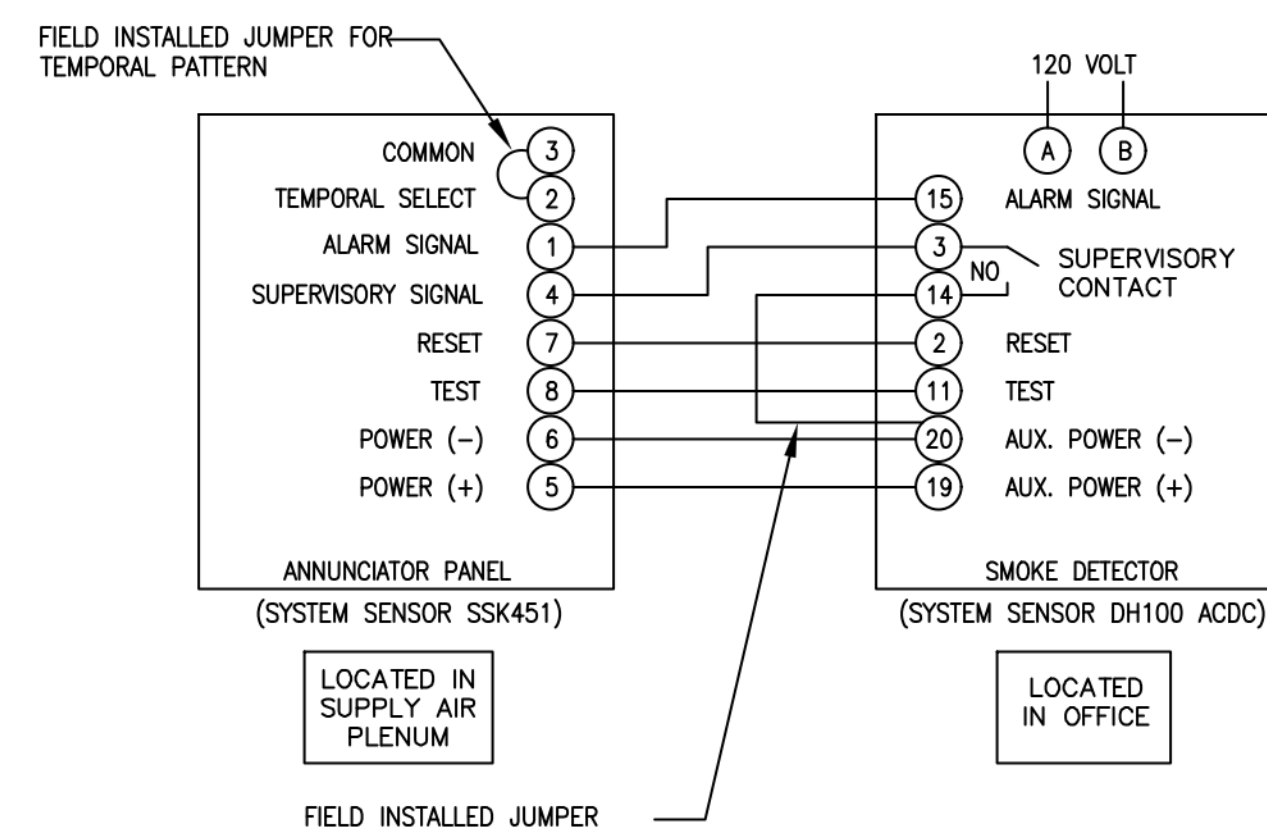
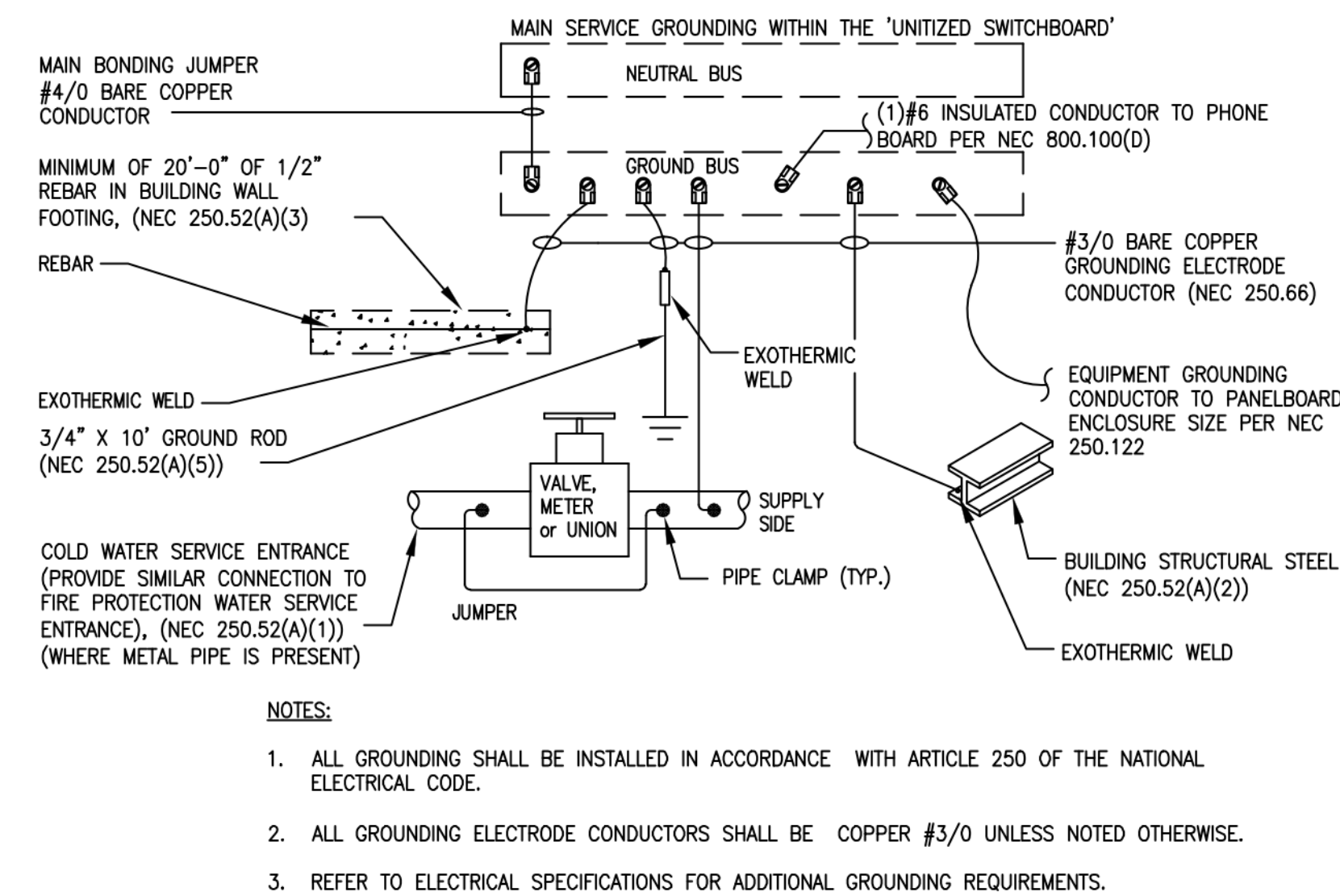
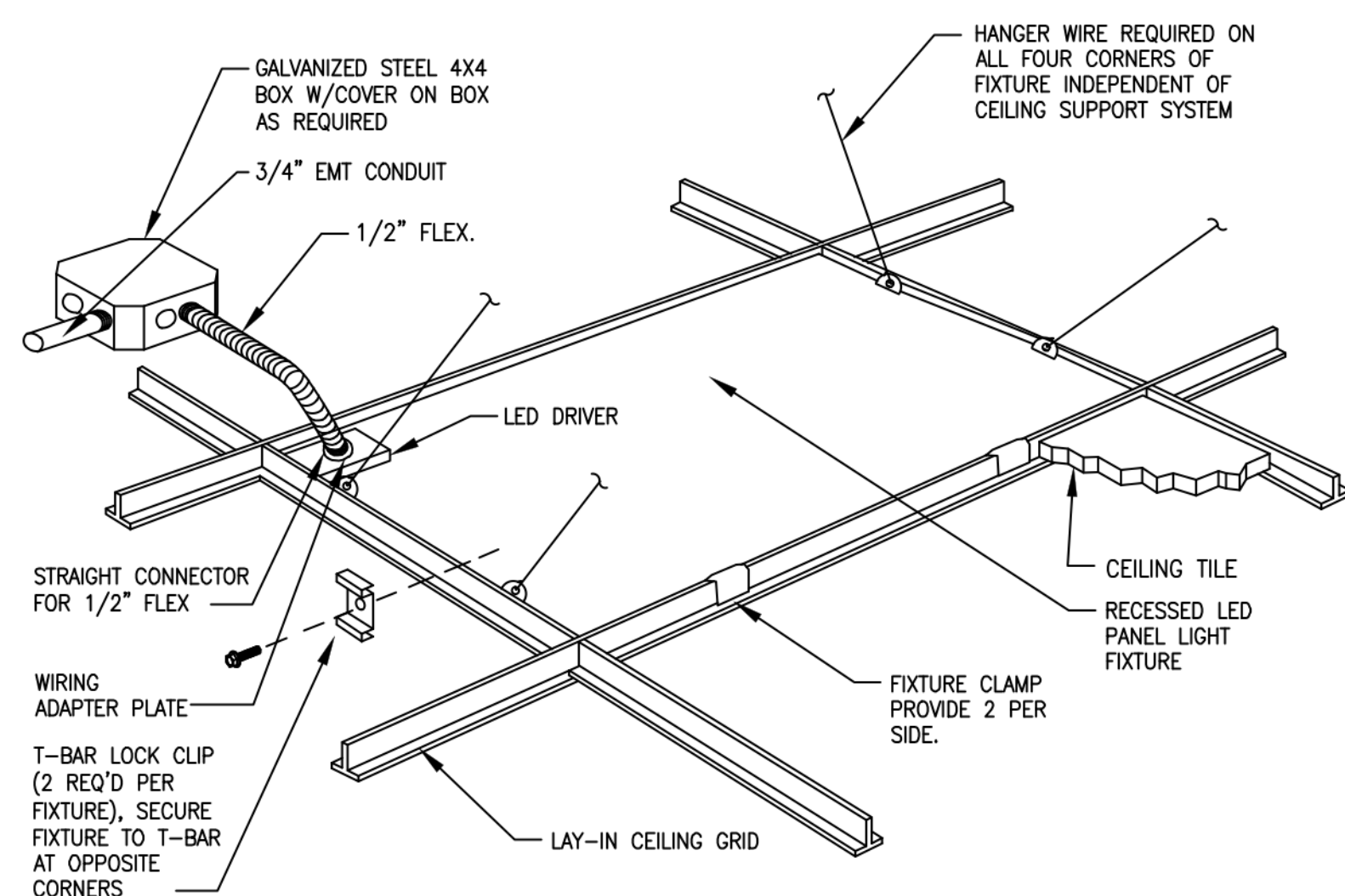


120V-1 POLE AND 208V-2-POLE GFCI BREAKER WIRING DIAGRAM
SCALE: NONE

ROOF TOP UNIT WIRING DIAGRAM

NOT USED
SCALE: NONE

FIRE CUT OFF WIRING DETAIL
SCALE: NONE

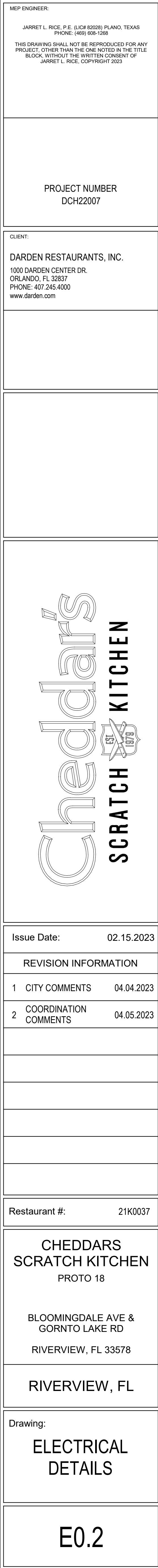
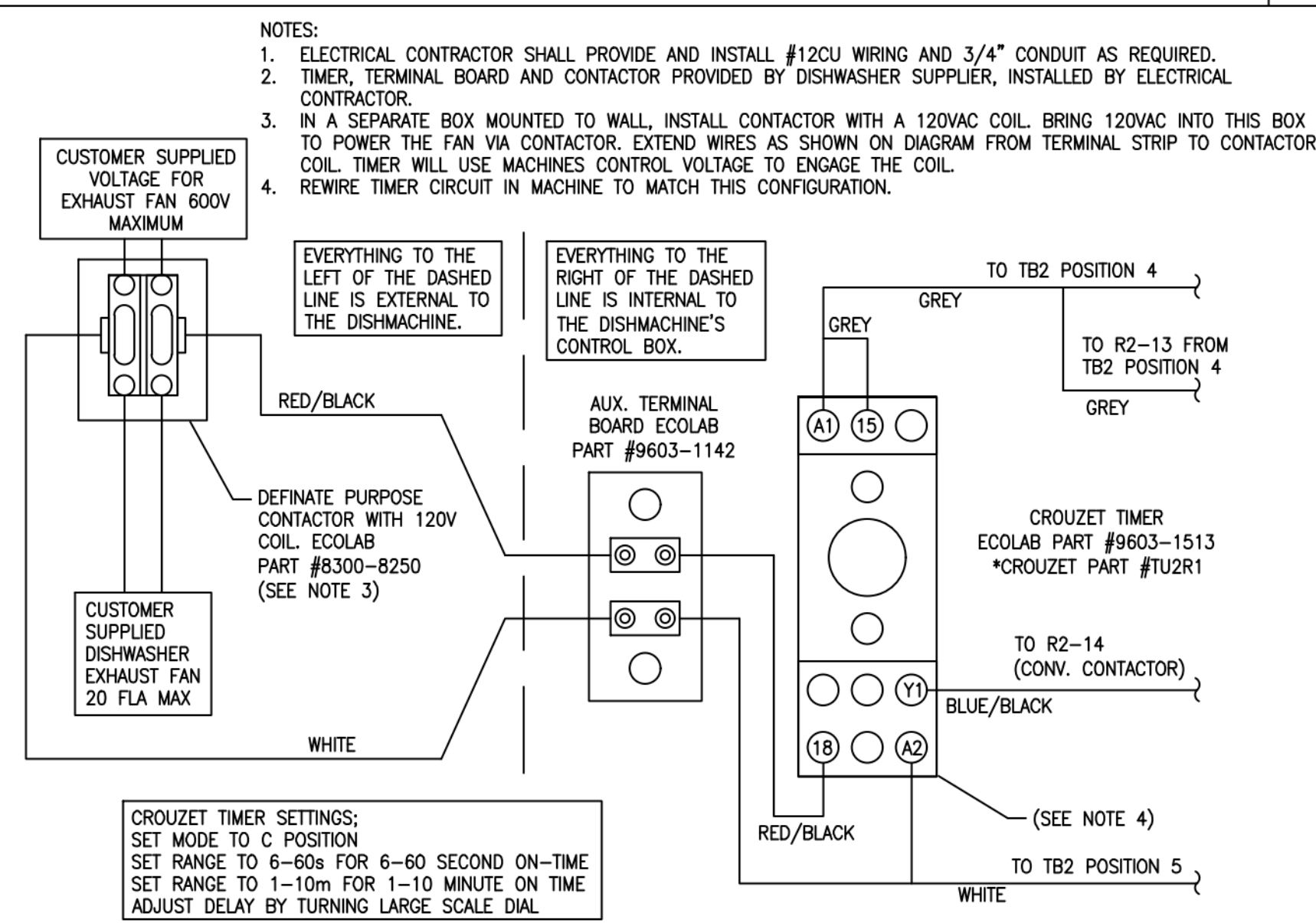
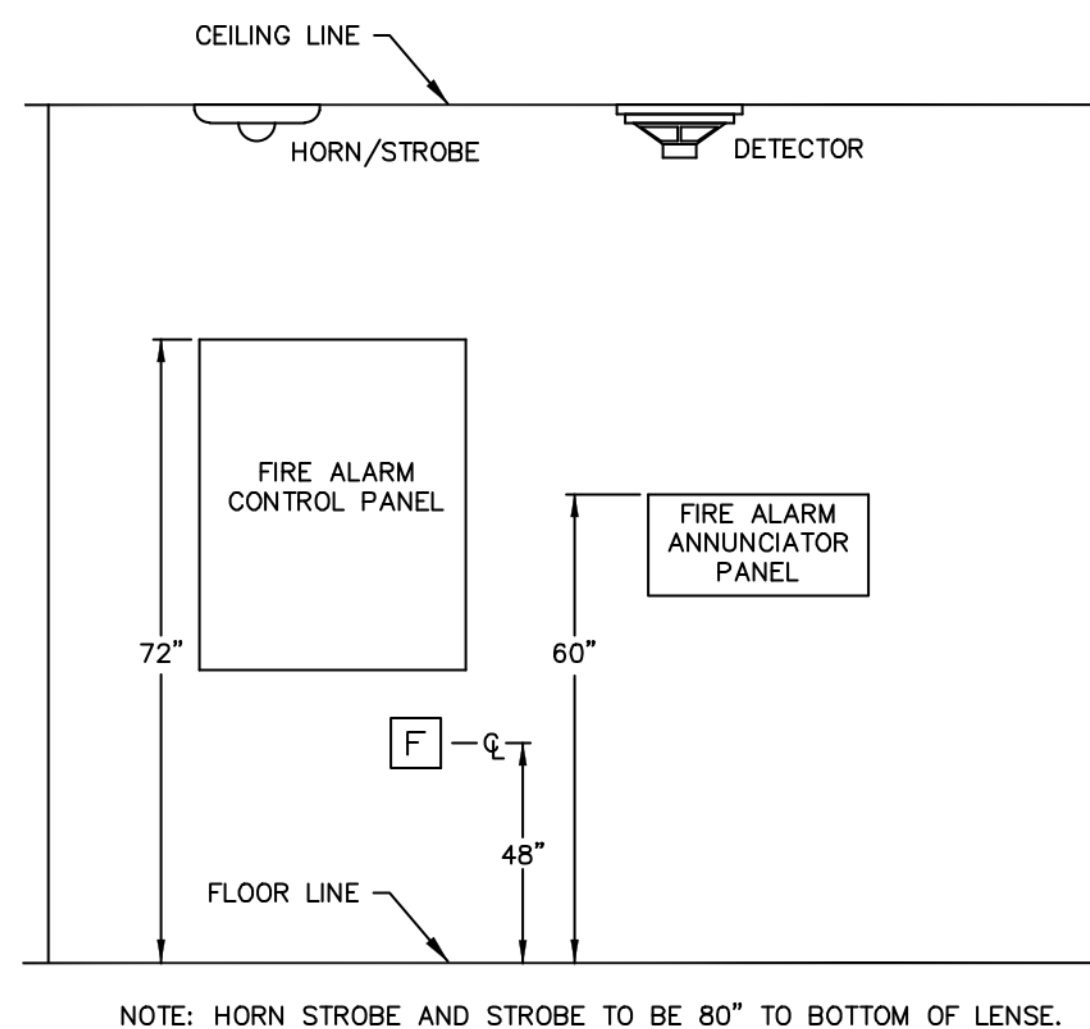


TYPICAL RECESSED LED PANEL FIXTURE MOUNTING DETAIL
SCALE: NONE

GROUNDING OF MAIN SERVICE ENTRANCE
SCALE: NONE

SMOKE DETECTOR WIRING DIAGRAM

THERMOSTAT WIRING DIAGRAM
SCALE: NONE

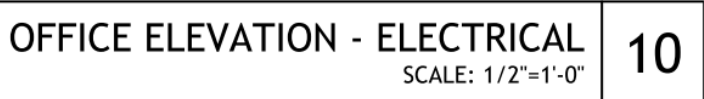


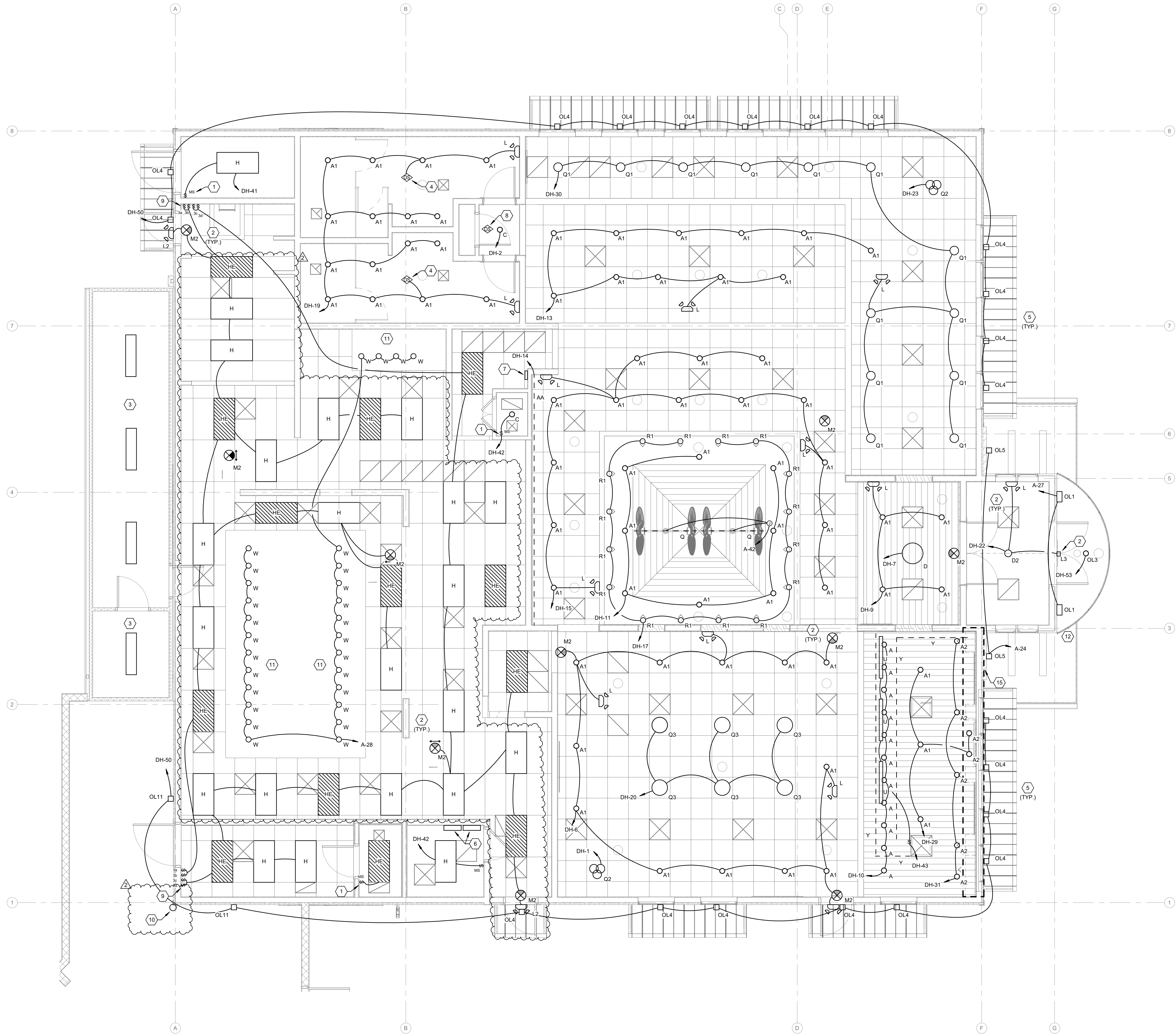
TYPICAL FIRE ALARM ELEVATION DETAIL
SCALE: NONE

DISHWASHER EXHAUST ELECTRICAL INTERCONNECTION SCHEMATIC

NOT USED
SCALE: NONE

NOT USED
SCALE: NONE





- GENERAL NOTES - E1.0**
- A. VERIFY EXACT LOCATIONS OF ALL LIGHT FIXTURES AND SIGNS WITH ARCHITECTURAL DRAWINGS. VERIFY LOCATIONS OF SIGN CONNECTIONS WITH SIGN CONTRACTOR.
 - B. PROVIDE ADDITIONAL BLOCKING WHERE NECESSARY TO INSTALL ALL LIGHTING AND POWER OUTLETS IN EXACT LOCATIONS.
 - C. PROVIDE FIXTURE STUDS AND ADDITIONAL SUPPORT WHERE REQUIRED DUE TO THE WEIGHT OF THE FIXTURE.
 - D. ALL FLEXIBLE METAL CONDUIT NOT CONCEALED IN WALLS OR ABOVE CEILING SHALL BE LIQUID TIGHT AND INSTALLED PER N.E.C. ARTICLE 351. ALL CONDUITS INSTALLED ABOVE THE CEILING, IN THE T-BAR CEILING AREAS SHALL BE INSTALLED ABOVE THE BOTTOM CORD OF THE TRUSSES. DROPS TO LIGHT FIXTURES SHALL BE DIRECTLY ABOVE THE FIXTURE.
 - E. ALL LIGHT FIXTURE TRIMS SHALL SIT FLUSH WITH FINISHED CEILING. CHECK FOR "LIGHT LEAKS". ALL LIGHT FIXTURE REFLECTORS SHALL BE CLEANED OF ALL DIRT.
 - F. LIGHTING PACKAGE IS PROVIDED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - G. INSTALL TWO #12 GAUGE SAFETY HANGAR WIRES ON ALL TYPE "A" & "B" AND ONE WIRE ON TYPES L & N FIXTURES.
 - H. OUTLET BOXES SHALL NOT BE USED AS SOLE SUPPORT FOR CEILING FANS, EXCEPT FOR LISTED FANS NOT EXCEEDING 35 LBS. IN WEIGHT CAN BE MOUNTED ON BOXES IDENTIFIED FOR SUCH USE.
 - I. NO ARMORED CABLE IS ALLOWED, INCLUDING LIGHT FIXTURE WHIPS.
 - J. REFER TO LIGHT FIXTURE SCHEDULE, DRAWING E3.1, FOR FIXTURE DESCRIPTIONS, MANUFACTURER AND MODEL NUMBERS.
 - K. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF LIGHT FIXTURES.
 - L. REFER TO SP SHEETS FOR ELECTRICAL SPECIFICATIONS.
 - M. ELECTRICAL CONTRACTOR TO COORDINATE LIGHT FIXTURE AIMING WITH ARCHITECT AFTER FURNITURE HAS BEEN SET UP.
 - N. ALL SPEAKERS TO BE LOCATED AND INSTALLED AS SHOWN ON ARCHITECTURAL PLANS. ALL SPEAKERS SHALL BE BLACK IN COLOR. COORDINATE COLOR WITH ARCHITECT.
 - O. ALL EXIT SIGNS AND EMERGENCY DRIVERS SHALL BE PROVIDED WITH AN UNSWITCHED HOT CONDUCTOR. BOTH SWITCHED AND UNSWITCHED HOT CONDUCTORS SHALL BE PROVIDED FOR FIXTURES WITH BOTH NORMAL AND EMERGENCY DRIVERS.

- KEYNOTES - E1.0**
- 1. PROVIDE WALL MOUNTED MOTION SENSOR. SENSOR SHALL BE WATT STOPPER #WH-300-W UNLESS NOTED OTHERWISE.
 - 2. CONNECT EMERGENCY FIXTURES TO UNSWITCHED LEG OF CIRCUIT FOR NORMAL OPERATION. IN CASE OF POWER LOSS, FIXTURES EMERGENCY BATTERY WILL ENERGIZE THE FIXTURE.
 - 3. REFER TO ELECTRICAL POWER PLAN FOR CONNECTION TO COOLER/FREEZER PROVIDED LIGHTS.
 - 4. DUAL TECHNOLOGY OCCUPANCY SENSOR (LOS-CDT-2000R-WH) TO BE CEILING MOUNTED TO MAINTAIN BOTH RESTROOMS LIGHTS ON WHEN OCCUPANCY IS DETECTED IN EITHER RESTROOM. CONTRACTOR SHALL FURNISH AND INSTALL 18AWG2 CONDUCTOR WIRE FROM EACH OCCUPANCY SENSOR TO LUTRON LCP PANEL.
 - 5. REFER TO DETAIL SHEET 7/E2.2 FOR PLACEMENT OF LIGHT FIXTURE TYPE "G2".
 - 6. DIMMER CONTROL PANEL (PANEL LGPT AND LCP2) WITH REMOTE DIMMER CONTROL. PAID FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO DIMMER PANELS.
 - 7. DIMMER CONTROL STATION MOUNTED ON WALL AT 48" AFF. PROVIDE ALL CABLING AS REQUIRED FROM LUTRON CONTROL PANEL TO CONTROL STATION.
 - 8. INFRARED OCCUPANCY SENSOR (LOS-CDT-2000R-WH) TO BE MOUNTED AT CEILING AND SHALL ACTIVATE BOTH RESTROOMS LIGHTS UPON DETECTION OF MOTION. CONTRACTOR SHALL FURNISH AND INSTALL 18AWG2 CONDUCTOR WIRE FROM EACH OCCUPANCY SENSOR TO LUTRON LCP PANEL.
 - 9. SWITCHES FOR KITCHEN LED LIGHTING. TWO SWITCHES PER CIRCUIT FOR DUAL LEVEL SWITCHING PER ENERGY CODE. SINGLE SWITCH TO CONTROL EVERY OTHER KITCHEN AREA.
 - 10. LOCATION FOR PHOTOCELL MOUNTED TO UNDERSIDE OF SOFFIT. CONTRACTOR SHALL ADJUST PER MANUFACTURER'S SPECIFICATIONS. ROUTE TO LIGHTING PANEL LGPT.
 - 11. LIGHT FIXTURE SUPPLIED AND INSTALLED BY HOOD SUPPLIER. ELECTRICAL CONTRACTOR TO INSTALL LIGHT BULBS FOR IN-HOOD LIGHT FIXTURE. CONNECT TO CIRCUIT SHOWN.
 - 12. REFER TO DETAIL 6/E3.3 FOR LIGHTING CONTROL.
 - 13. not used
 - 14. not used
 - 15. REFER TO DETAIL 6/E3.3 FOR BACK BAR LIGHTING.

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PROJECT NUMBER
DCH22007

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1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1	CITY COMMENTS	04.04.2023
2	COORDINATION COMMENTS	04.05.2023

Restaurant #: 21K0037

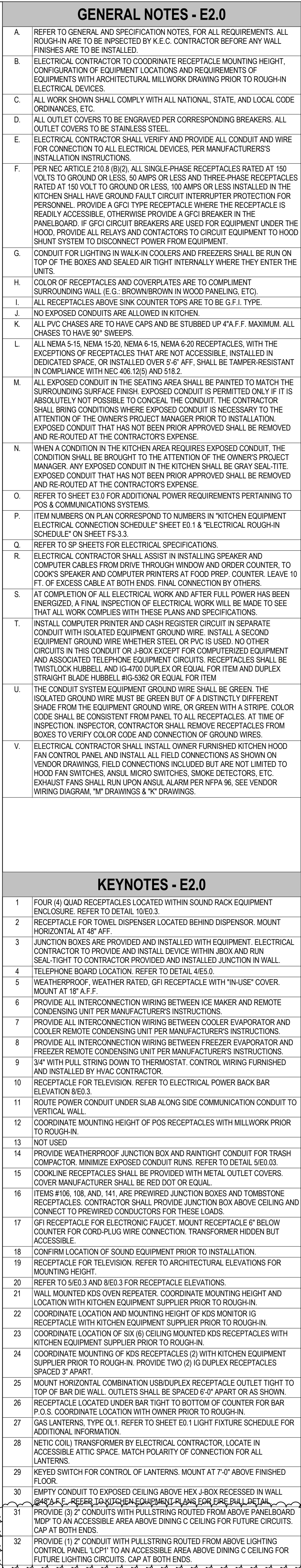
CHEDDARS
SCRATCH KITCHEN
PROTO 18

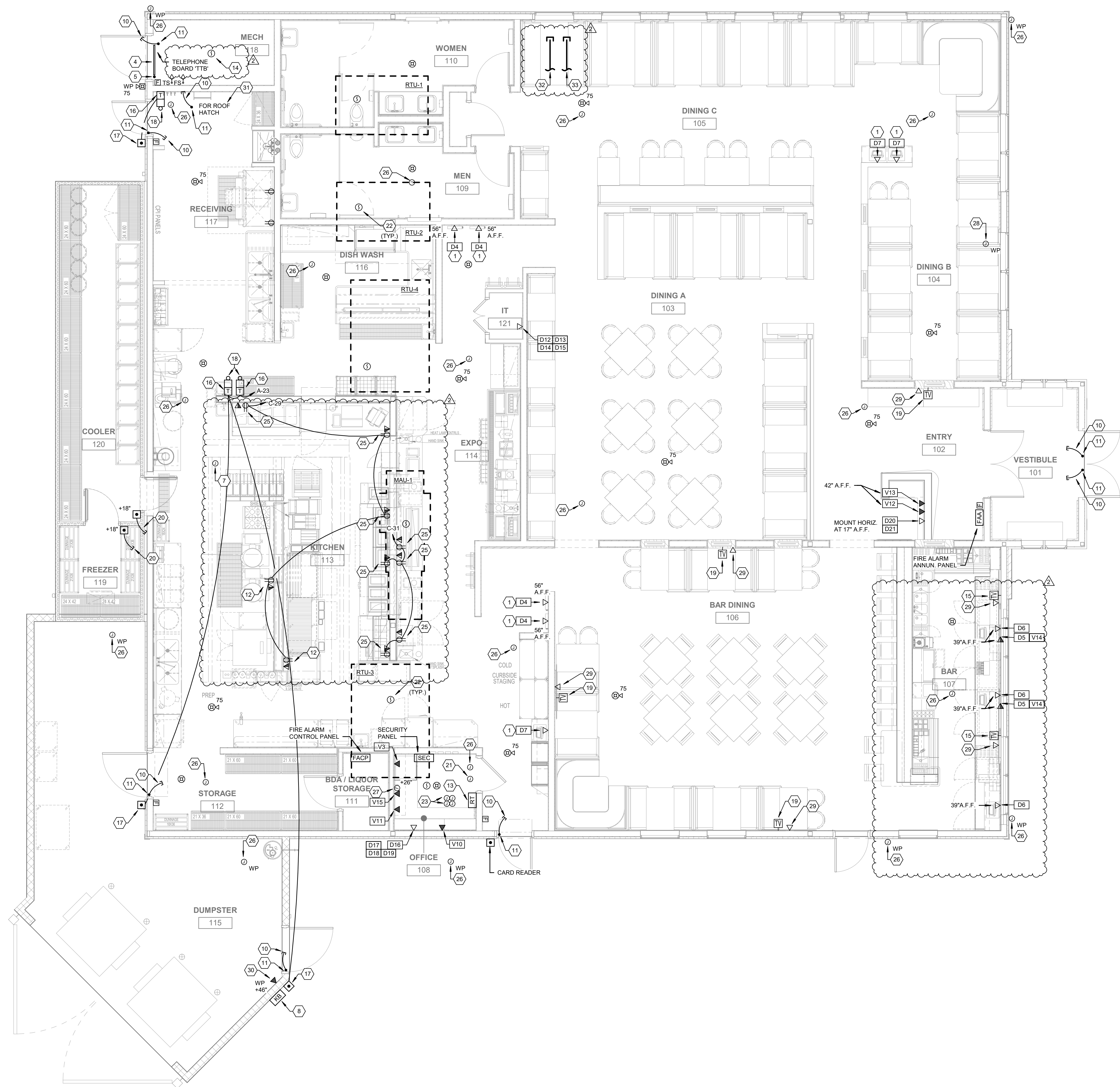
BLOOMINGDALE AVE &
GORNTO LAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
LIGHTING FLOOR
PLAN

E1.0

POWER FLOOR PLAN
1/4" = 1'-0"



GENERAL NOTES - E3.0

- 1 AN APPROVED MANUAL FIRE ALARM SYSTEM MONITORED BY A LISTED CENTRAL STATION, REMOTE STATION OR PROPRIETARY STATION SHALL BE PROVIDED, DESIGNED PER NFPA STD. 72 AND INTERNATIONAL FIRE CODE. PRIOR TO INSTALLATION A LICENSED CONTRACTOR SHALL SUBMIT TO THE FIRE DEPARTMENT, ONE (1) SET OF MANUFACTURER'S CUT SHEETS AND STATE FIRE MARSHAL LISTING SHEETS FOR EACH DEVICE, THREE (3) SETS OF SHOP DRAWINGS, A COMPLETED PERMIT APPLICATION, AND APPLICABLE FEES FOR REVIEW. ELECTRICAL CONTRACTOR SHALL INSTALL CONDUIT ONLY AND OUTLET BOXES. WIRING AND DEVICES SHALL BE BY OWNERS FIRE ALARM SYSTEM CONTRACTOR. FIRE ALARM SYSTEM CONTRACTOR SHALL SUBMIT FINAL FIRE ALARM SYSTEM SHOP DRAWINGS TO LOCAL FIRE DEPARTMENT PLAN CHECK FOR APPROVAL PRIOR TO INSTALLATION. PROVIDE DOCUMENTATION TO FIRE INSPECTOR VERIFYING SERVICE CONTRACTS OF FIRE ALARM SYSTEM. PROVIDE A COPY OF THE SIGNED CONTRACT WITH THE COST OF THE JOB.
- 2 REVIEW AND APPROVAL BY THE AHJ SHALL NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY OF COMPLIANCE WITH THIS CODE PER NFPA 1.1.14.4.
- 3 PLANS SHALL HAVE SYMBOL LEGEND THAT MATCH LAYOUT.
- 4 ALL STROBES SHALL BE SYNCHRONIZED WHEN MORE THAN TWO (2) ARE IN ANY FIELD OF VISION.
- 5 SIGNAGE WILL BE PROVIDED ON THE OUTSIDE OF THE ELECTRICAL ROOM OR FACP ROOM STATING (FACP INSIDE, NO STORAGE).
- 6 REMOTE TEST SWITCH (RTS) SHALL BE PROVIDED WITH LED INDICATOR, LOCATED IN A NORMALLY OCCUPIED AREA 48" AFF. THE ACTIVATION OF THE DUCT DETECTOR SHALL SHUNT THE A/C UNIT DOWN IMMEDIATELY, WITHOUT DELAY.
- 7 PROVIDE A MUSIC SHUNT TRIP DEVICE FOR FIRE ALARM SYSTEM TO DISABLE THE MUSIC SYSTEM DURING AN EMERGENCY, ALLOWING OCCUPANTS TO HEAR THE ALARM SYSTEM WHEN IT'S SOUNDING.
- 8 A REDUCED LAYOUT OF THE SPACE DEPICTING THE LOCATION OF THE FACP WILL BE POSTED NEXT TO THE ANNUNCIATOR PANEL.
- 9 PER NFPA 72 12.14.8.4 MANUAL FIRE ALARM PULL STATION BOXES SHALL BE LOCATED WITHIN 5 FT OF EACH EXIT DOORWAY.
- 10 SEQUENCE OF OPERATION: ACTIVATION OF DUCT DETECTOR WILL INITIATE GLOBAL SHUTDOWN OF ALL A/C UNITS.
- 11 REFER TO FS SHEETS FOR ADDITIONAL LOCATION INFORMATION.
- 12 ALL CONDUIT ON THIS SHEET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 13 VERIFY AND FIELD COORDINATE ALL EQUIPMENT ROUGH-IN REQUIREMENTS.
- 14 ALL EMPTY CONDUIT TO HAVE NYLON PULLSTRINGS INSTALLED.
- 15 ROUTE ALL EXPOSED CONDUIT PARALLEL AND PERPENDICULAR TO TRUSSES BETWEEN BOTTOM OF TOP CHORD AND TOP OF BOTTOM CHORD AS REQUIRED. PAINT AS DIRECTED.
- 16 REFER TO SP SHEETS FOR ELECTRICAL SPECIFICATIONS.
- 17 FIRE ALARM SYSTEM DESIGN SHALL MEET THE REQUIREMENTS OF IBC 907.5.2.3 INCLUDING 20% SPARE CAPACITY PROVISIONS FOR CIRCUITS SERVING EMPLOYEE WORKSPACES.

KEYNOTES - E3.0

- 1 PROVIDE 1" CONDUIT TO HUB WITH CAT. 5 CABLE FROM EACH POS DATA OUTLET LOCATION. REFER TO SPECIAL SYSTEMS RISER DIAGRAM ON SHEET E3.0
- 2 PROVIDE 6"x6" PULLBOX FOR CONNECTION TO AUDIO SYSTEM. LOCATE AT AUDIO SHELF.
- 3 PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE TO TELEPHONE PANEL.
- 4 TELEPHONE BOARD LOCATION LOCATED ON WALL. REFER TO KES.0
- 5 PROVIDE (2) 4" TO MAIN TELEPHONE/TELEVISION PANEL. TYP.
- 6 PROVIDE AND INSTALL (2) 6"x6" SURFACE MOUNTED WATER HEATER ALARMS. VERIFY WITH WATER HEATER MANUFACTURER ALARM SPEC. PROVIDE AND INSTALL CONTROL WIRING AS REQUIRED.
- 7 PROVIDE 4" HEXAGON RECESSED JUNCTION BOX MOUNTED AT 48" AFF TO BOTTOM FOR HOOD SUPPRESSION SYSTEM MANUAL PULL STATION. PROVIDE WITH 3/4" CONDUIT TO A MINIMUM OF 12" ABOVE THE CEILING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. VERIFY LOCATION WITH SUPPLIER AND FIRE MARSHAL.
- 8 PROVIDE 4400 SERIES KNOX VAULT. PROVIDE KEYS WITH IDENTIFICATION TAGS FOR THE KNOX VAULT. OBTAIN ORDERING FORMS THRU LOCAL CITY OF SERVICES. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- 9 SECURITY PANIC BUTTON. REFER TO OFFICE ELEVATIONS.
- 10 PROVIDE 3/4" CONDUIT ONLY FOR SECURITY SYSTEM WIRES. STUB INTO ACCESSIBLE CEILING SPACE FOR ROUTING TO SECURITY PANEL AND H/P PANEL.
- 11 PROVIDE STUB CONDUIT DOWN TO TOP OF DOOR FROM STRIKE SIDE OF THE DOOR AS DIRECTED BY SECURITY SYSTEM CONTRACTOR FOR CONNECTION TO SECURITY SYSTEM EQUIPMENT.
- 12 PROVIDE 1" CONDUIT TO HUB WITH CAT. 5 CABLE FROM EACH 48" AFF MOUNTED DATA OUTLETS. COORDINATE LOCATION AND REQUIREMENTS WITH KITCHEN EQUIPMENT PROVIDER.
- 13 PROVIDE 1" CONDUIT TO HUB WITH CAT. 5 CABLE FROM EACH 48" AFF MOUNTED DATA OUTLETS. COORDINATE LOCATION AND REQUIREMENTS WITH KITCHEN EQUIPMENT PROVIDER.
- 14 HEAT DETECTOR PER NFPA 72.
- 15 TV OUTLET LOCATION. REFER TO ELECTRICAL POWER BACK BAR ELEVATION TIE-3 AND SHEET 3.
- 16 LOW VOLTAGE TRANSFORMER. MOUNT AT 96" A.F.F. REFER TO DOOR BUZZER WIRING DIAGRAM, DETAIL 2ED.2.
- 17 WEATHERPROOF PUSHBUTTON. MOUNT AT 48" A.F.F. REFER TO DOOR BUZZER WIRING DIAGRAM, DETAIL 2ED.2.
- 18 WALL MOUNTED BELL. MOUNT AT 96" A.F.F. REFER TO DOOR BUZZER WIRING DIAGRAM, DETAIL 2ED.2.
- 19 TV OUTLET LOCATION. REFER TO ARCHITECTURAL ELEVATION FOR EXACT LOCATION.
- 20 PANIC BUTTON AT 18" A.F.F. FOR SINGLE GANG BOX. PROVIDE PROTECTOR COVER OVER PUSHBUTTON.
- 21 JUNCTION BOX MOUNTED ABOVE DOOR FOR PHONE BELL.
- 22 DUCT SMOKE DETECTORS INDICATED SHALL BE FACTORY MOUNTED WITHIN RETURN AND SUPPLY AIR SIDE OF EACH ROOF TOP UNIT IN DUCTWORK. HVAC CONTRACTOR TO WIRE SHUTDOWN RELAY FROM DETECTOR TO RTU.
- 23 FIVE (5) ROOFTOP UNIT THERMOSTAT. REFER TO TIE-3 FOR MOUNTING LOCATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 24 ROUTE COMMUNICATIONS CONDUIT UNDER SLAB TO VERTICAL WALL TO ABOVE CEILING. REFER TO LOW VOLTAGE CABLING NOTE FOR OTHER REQUIREMENTS.
- 25 PROVIDE 1" CONDUIT TO HUB WITH CAT. 5 CABLE FROM CEILING MOUNTED KDS DATA OUTLETS. COORDINATE LOCATION AND REQUIREMENTS WITH KITCHEN EQUIPMENT PROVIDER.
- 26 COORDINATE REQUIREMENTS AND MOUNTING HEIGHTS OF JUNCTION BOXES WITH SECURITY SYSTEM INSTALLER. PROVIDE 3/4". WITH PULL STRING BACK TO OFFICE ABOVE SECURITY SYSTEM CABINET.
- 27 COORDINATE REQUIREMENTS AND MOUNTING HEIGHTS OF JUNCTION BOXES WITH IT SYSTEM INSTALLER. PROVIDE 3/4". WITH PULL STRING BACK TO OFFICE ABOVE SOUND CABINET.
- 28 WEATHERPROOF JUNCTION BOX FOR SECURITY SIREN. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH SECURITY VENDOR.
- 29 ROUTE CAT 6 FROM TV BACK TO OFFICE.
- 30 PHONE DATA OUTLET WITH 1/2" CONDUIT TO ABOVE CEILING AT KITCHEN REAR DOOR.
- 31 ROOF HATCH IS LOCATED ABOVE CEILING FROM MECHANICAL ROOM. REFER TO MECHANICAL SHOP DRAWINGS.
- 32 PROVIDE (1) 2" CONDUIT WITH PULLSTRINGS ROUTED FROM ABOVE FIRE ALARM PANEL TO AN ACCESSIBLE LOCATION ABOVE DINING C CEILING FOR FUTURE FIRE ALARM CABLING USE. CAP AT BOTH ENDS.
- 33 PROVIDE (1) 2" CONDUIT WITH PULLSTRING ROUTED FROM HUB TO AN ACCESSIBLE LOCATION ABOVE DINING C CEILING FOR FUTURE DATA CABLING. CAP AT BOTH ENDS.

LOW VOLTAGE CABLING NOTE

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL CAT6 CABLING, BUT NOT THE TERMINATION OR PUSH WORK. CONTRACTOR SHALL PROVIDE ALL CAT6 CABLING BETWEEN DESIGNATED POS TERMINALS, EMV TERMINALS, KDS TERMINALS, PRINTERS, AND VIEWERS, AND THE MAIN EQUIPMENT RACK IN THE OFFICE. LOW VOLTAGE REQUIREMENTS ARE LISTED BELOW.
- USE ONLY PLENUM RATED CABLE.
 - OPEN CEILINGS REQUIRE BLACK CAT6 PLENUM RATED CABLE.
 - CABLES ARE TO BE CLEARLY TAGGED AT BOTH ENDS IN THE FOLLOWING FORMAT:
 - *POS TERMINALS: P1, P2, P3.
 - *EMV TERMINALS: E1, E2, E3.
 - *KDS / KITCHEN PRINTERS / RECIPE VIEWERS: K1, K2, K3.
 - *PHONE LINES: P1, P2, P3.
 - *ACCESS POINTS: A1, A2, A3.
 - *HOST TERMINALS: H1, H2, H3.
 - *OFFICE EQUIPMENT: M1, M2, M3.
 - EACH POS TERMINAL RUN WILL REQUIRE A SECOND RUN FOR THE EMV DEVICE.
 - PROVIDE A 10 FOOT SERVICE LOOP ON BOTH ENDS OF THE CABLE.
 - CABLE RUNS WILL BE NEATLY TIED AND ATTACHED TO THE RAFTERS OR STRUCTURE ABOVE.
 - NO CABLES SHOULD LIE ON THE CEILING GRID.

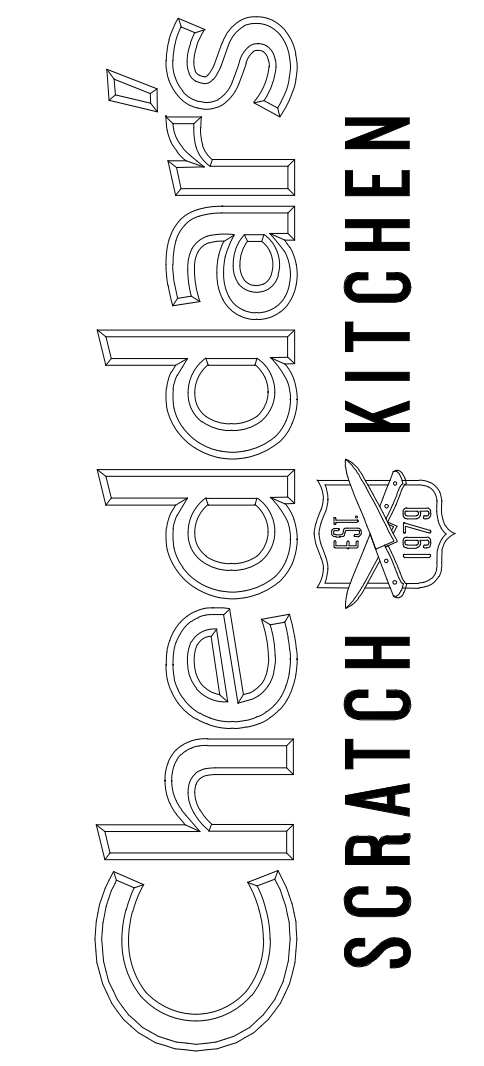
MEP ENGINEER

JARRET L. RICE, P.E. (LIC# 82028) PLANO, TEXAS
PHONE: (409) 908-7595

PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Issue Date: 02.15.2023

REVISION INFORMATION

1	CITY COMMENTS	04.04.2023
2	COORDINATION COMMENTS	04.05.2023

Restaurant #: 21K0037

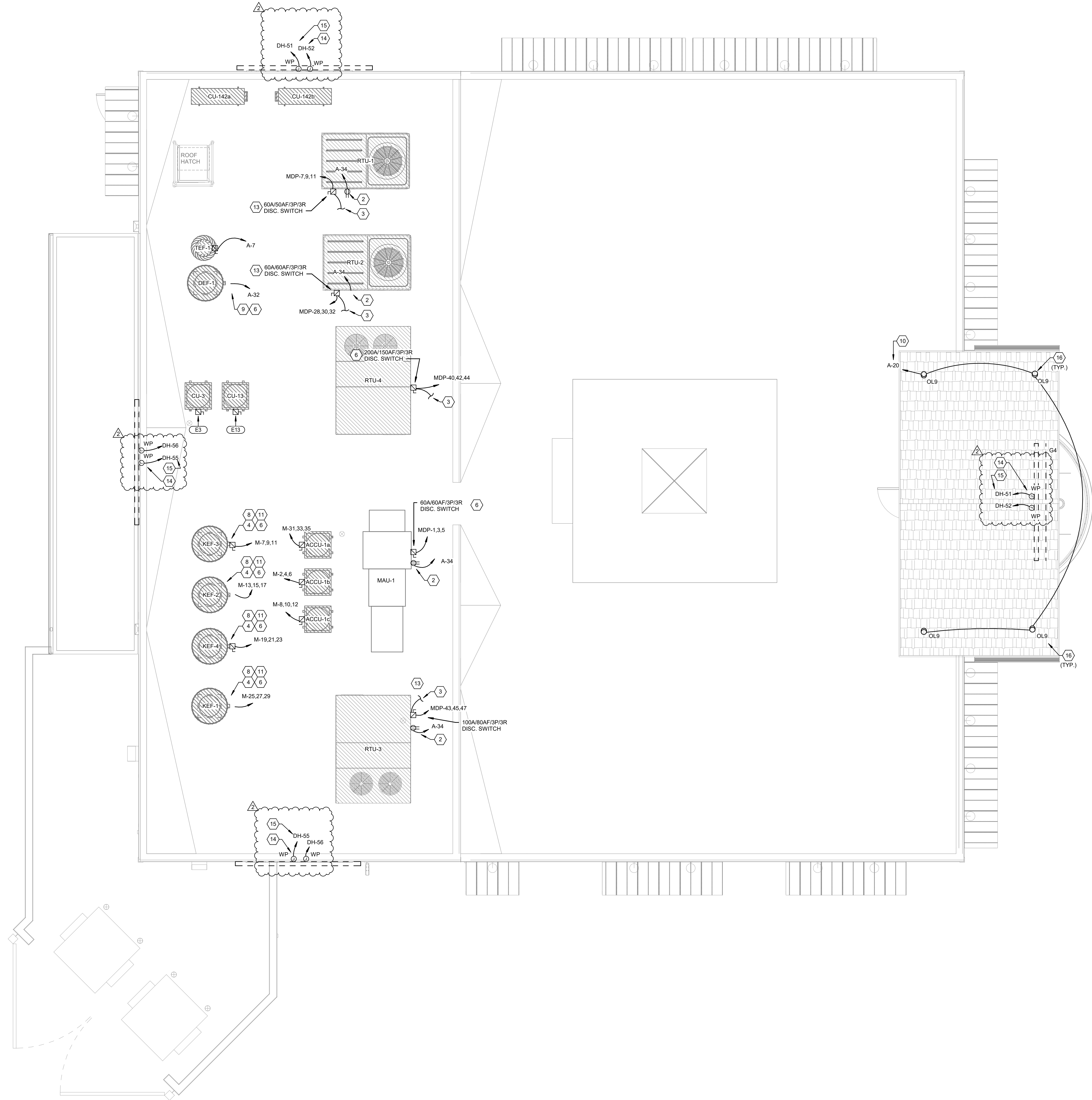
CHEDDARS
SCRATCH KITCHEN
PROTO 18

BLOOMINGDALE AVE &
GORNTO LAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
SPECIAL SYSTEMS
FLOOR PLAN

E3.0



- KEYNOTES - E4.0**
- (1) 1" C. WITH 486 CU THWN, 1410 CU EGC. THIS IS A SINGLE POINT CONNECTION FOR THE ENTIRE FREEZER UNITS WHICH INCLUDES A CONDENSING UNIT, A EVAPORATOR COIL, FAN AND A HEATER COIL.
 - WEATHERPROOF, WEATHER RATED, GFCI OUTLET PROVIDED WITH RTU TO BE WIRED TO CIRCUIT NOTED. CONDUIT AND WIRING TO RUN IN ATTIC SPACE AND UP IN ROOF CURB TO OUTLET IN RTU.
 - 3/4" CONDUIT WITH PULLSTRING DOWN TO RESPECTIVE UNITS' THERMOSTAT AND HUMIDISTAT. COORDINATE LOCATIONS WITH SPECIAL SYSTEMS FLOOR PLAN.
 - POWER FOR ANSUL FIRE SUPPRESSION SYSTEM, COORDINATE LOCATION WITH POWER FLOOR PLAN.
 - ROUTE THROUGH KITCHEN CONTROL PANEL. REFER TO POWER FLOOR PLAN FOR LOCATION.
 - CONTRACTOR SHALL PROVIDE ALL ELECTRICAL CONNECTIONS, WIRING AND CONDUITS NECESSARY FOR THE INTERLOCKING OF KITCHEN EXHAUST FANS AND DOAS UNIT THROUGH THE KITCHEN CONTROL PANEL. REFER TO NOTE 5.
 - ROUTE FEEDERS FOR CONDENSING UNITS DOWN THRU WEATHER TIGHT FIELD FABRICATED DOGHOUSE. REFER TO MECHANICAL ROOF PLAN FOR ADDITIONAL INFORMATION OF DOGHOUSE.
 - CONNECT EXHAUST FAN TO KITCHEN HOOD CONTROLLER. REFER TO POWER FLOOR PLAN FOR LOCATION OF KITCHEN HOOD CONTROLLER.
 - ROUTE ELECTRICAL POWER FROM EXHAUST FAN THROUGH DISHWASHER CONTROLLER. REFER TO DISHWASHER EXHAUST ELECTRICAL SCHEMATIC DIAGRAM.
 - JUNCTION BOX AND CONDUIT FOR ROOF LED LIGHTING SHALL BE LOCATED BELOW ROOF. COORDINATE LOCATION AND MOUNTING OF LED DRIVER WITH LED MANUFACTURER AND PROVIDE AS NECESSARY PRIOR TO ROUGH-IN.
 - SAFETY SWITCH, 60V, 30A/2A/3P/4P, 3/12, #12G, IN 3/4" C. DOWN TO PRE-WIRED ELECTRICAL CONTROL PANEL ON KITCHEN HOOD.
 - WEATHERPROOF JUNCTION BOX WITH WEATHERHEAD AND 2" CONDUIT INTO ATTIC SPACE FOR SATELLITE DISH SYSTEM.
 - SAFETY SWITCH TO ARRIVE FACTORY INSTALLED ON RTU.
 - WEATHERPROOF JUNCTION BOX FOR EXTERIOR SIGNAGE. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR SIGNAGE LOCATIONS. COORDINATE LOCATION AND REQUIREMENTS WITH SIGN INSTALLER PRIOR TO ROUGH-IN AND PROVIDE AS NECESSARY. COORDINATE REQUIRED DISCONNECT MEANS WITH LOCAL AUTHORITY HAVING JURISDICTION OVER THE WORK.
 - REFER TO DETAIL 6E9.3 FOR LIGHTING CONTROLS. REFER TO 6E5.0 FOR DIMMING CONTROLS - CONTRACTOR SHALL VERIFY FINAL DIMMING TYPE WITH SIGN VENDOR PRIOR TO ORDER OF DIMMING PANEL MODULES AND ROUGH-IN INSTALLATION. REFER TO DETAIL 6E6.2 FOR ADDITIONAL INFORMATION.
 - NOT USED.
 - LUTRON PHOTOCELL SHALL BE PLACED ON ROOF FACING NORTH. PROVIDE 1/2" CONDUIT WITH PULL STRING TO LB BOX. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
 - POWER TO ICE MACHINE CONDENSING UNIT FED FROM ICE MACHINE BELOW. PROVIDE DISCONNECT SWITCH FOR SHUTTING DOWN POWER FOR MAINTENANCE.

MEP ENGINEER:

JARRET L. RICE, P.E. (LIC# 82028) PLANO, TEXAS
PHONE: (409) 908-7798

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PROJECT NUMBER
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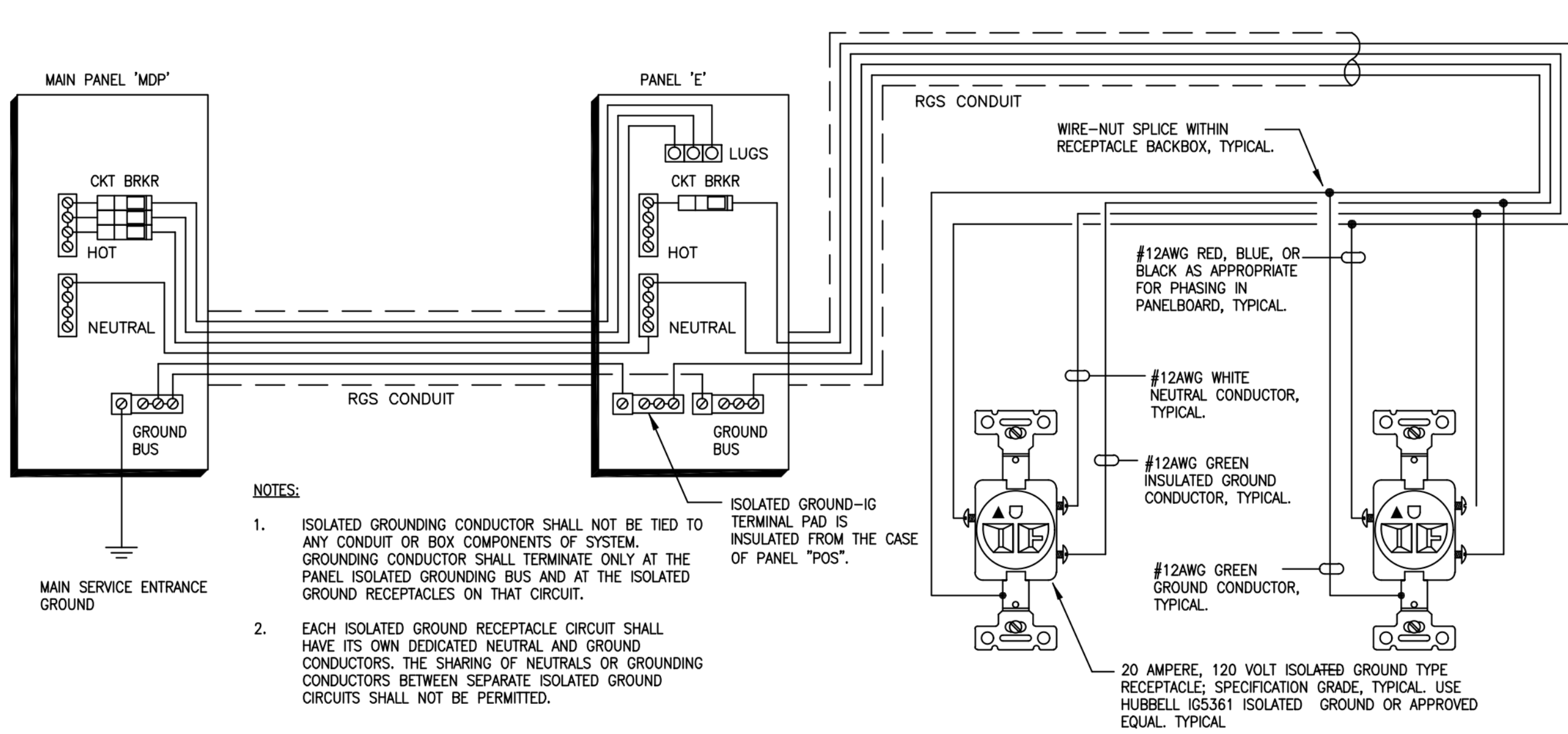
CHEDDARS
SCRATCH KITCHEN
PROTO 18

BLOOMINGDALE AVE &
GORNTO LAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
ELECTRICAL ROOF
PLAN

E4.0

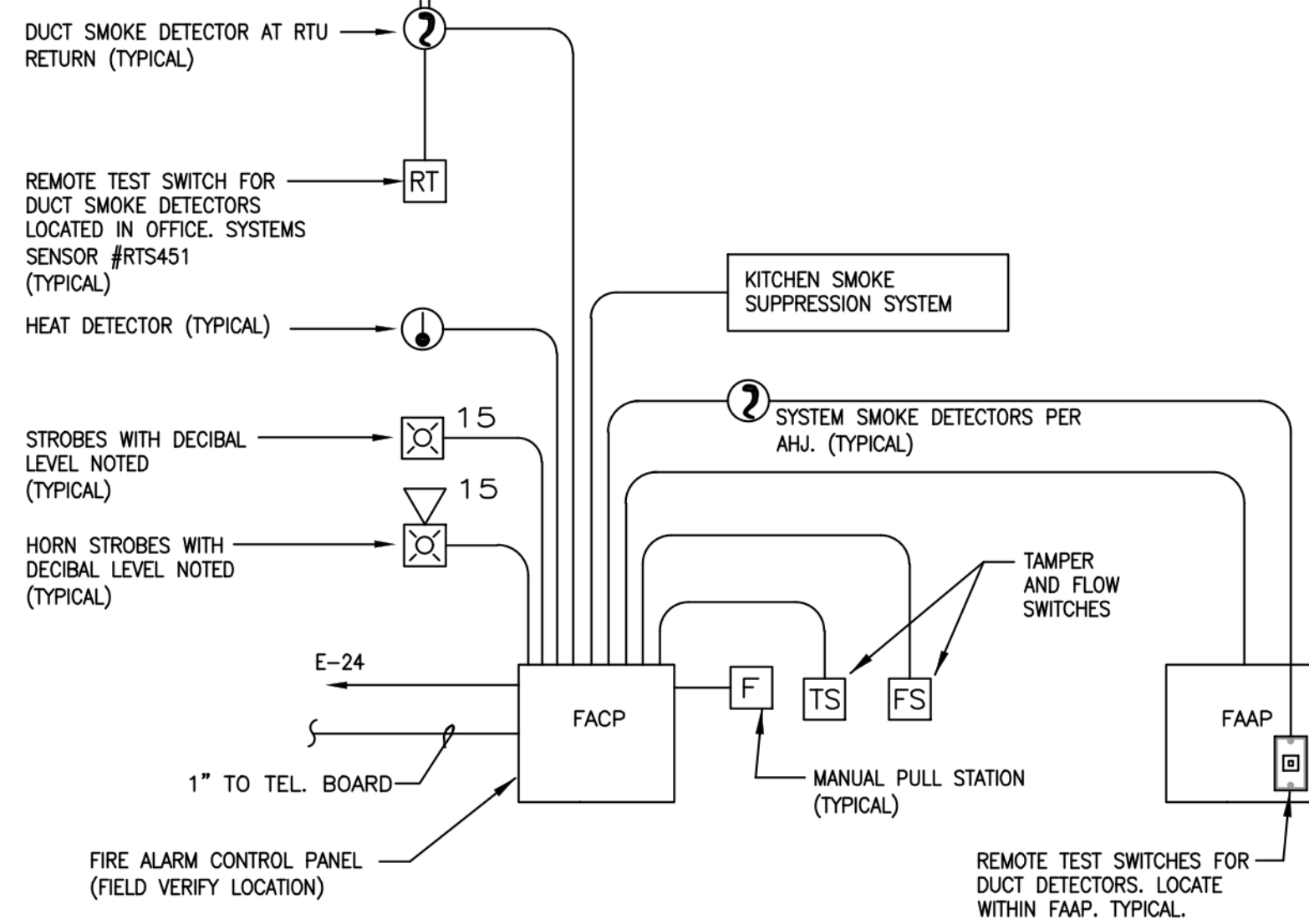


DEDICATED ISOLATED GROUND SCHEMATIC
SCALE: NONE

1

FIRE ALARM SCHEMATIC GENERAL NOTES:

- PROVIDE DUCT MOUNTED SMOKE DETECTORS IN DUCTWORK AS SHOWN ON MECH PLANS PER SPECIFICATIONS.
- FIRE ALARM CONTRACTOR SHALL BE CURRENTLY LICENSED WITH THE STATE AND SUBMIT A COMPLETE FIRE ALARM SUBMITTAL (PLANS, SPECS., CUT SHEETS ETC.) PREPARED BY THE STATE REGISTERED FIRE PROTECTION CONTRACTOR, AND SUBMITTED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL. INFORMATION SHALL NOT BE LIMITED TO THE FOLLOWING:
 - SEQUENCE OF OPERATION
 - CATALOG CUT SHEETS.
 - POINT TO POINT DIAGRAM.
 - HORN, STROBE LIGHTS, MANUAL PULL STATION LAYOUT.
 - CANDELA OF STROBES.
 - BATTERY CALCULATIONS INCLUDING TOTAL STANDBY AND ALARM CURRENT.
- CONTRACTOR SHALL PROVIDE ADDITIONAL FIRE ALARM DEVICES PER AHJ AND INCLUDE ALL EXPENSES IN BID TO COMPLETE AN OPERABLE FIRE ALARM SYSTEM AS REQUIRED BY AUTHORITY HAVING JURISDICTION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE THE NUMBER OF ACTIVE AND SPARES ADDRESSES AS REQUIRED TO THE FIRE ALARM PANEL TO ACCOMMODATE ALL DEVICES
- PROVIDE DEDICATED TELEPHONE LINE FOR 24-HOUR MONITORING SYSTEM PER CITY REQUIREMENT.
- CONTRACTOR SHALL FURNISH/INSTALL FIRE ALARM DEVICES, SYSTEM COMPONENTS, WIRING/CONDUITS AND CONTROLS AS REQUIRED AND COMPLETE THE FIRE ALARM SYSTEM PER NFPA 72 AND AUTHORITY HAVING JURISDICTION "AHJ". FIRE ALARM DEVICES SHALL BE MONITORED FROM AN APPROVED CENTRAL STATION PER AHJ.
- REFER TO MECHANICAL DRAWINGS AND KITCHEN KITCHEN SMOKE SUPPRESSION SYSTEM.



FIRE ALARM RISER DIAGRAM
SCALE: NONE

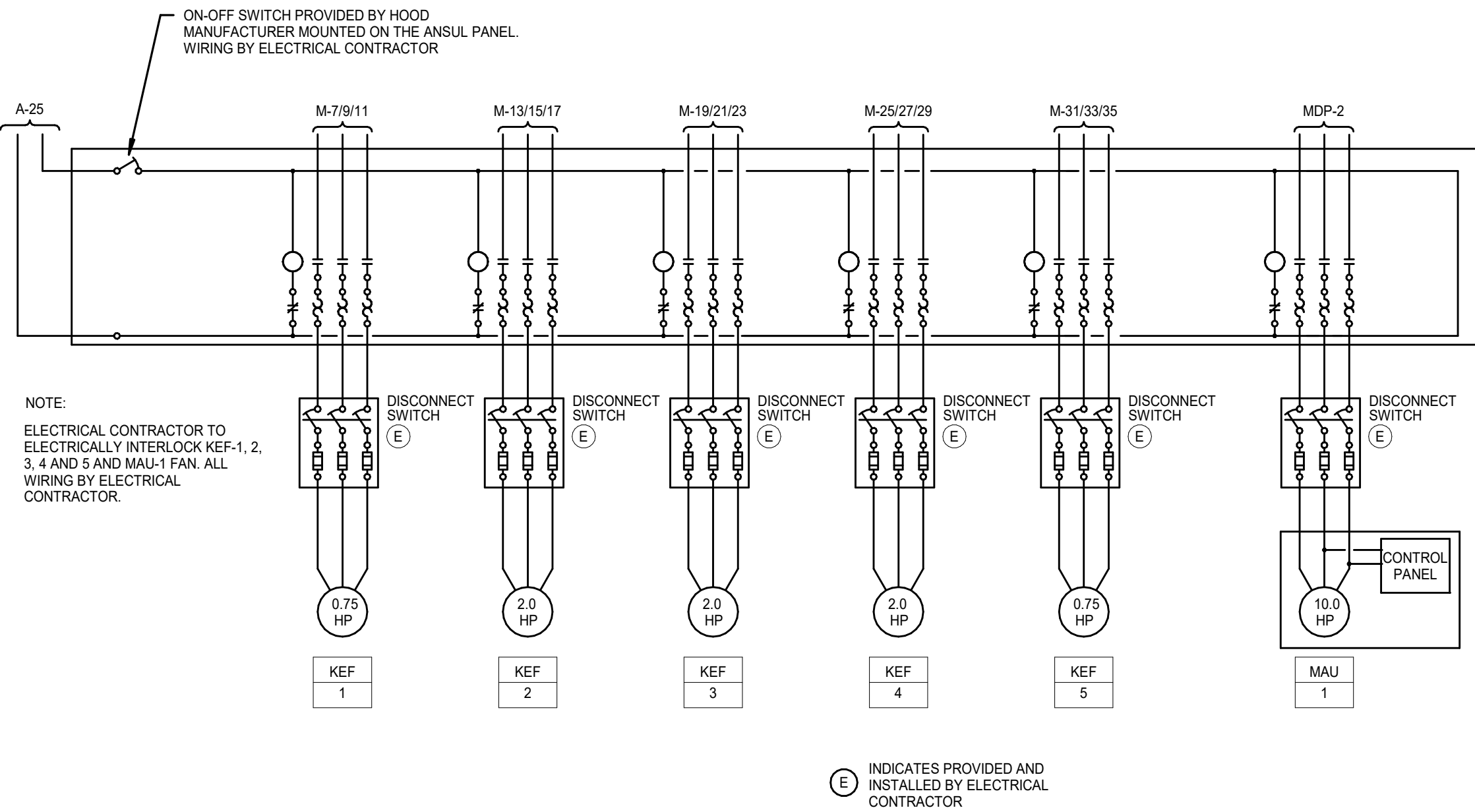
3

LUTRON DIMMING PANEL LCP1 120/208V, 3PH, 4W 10K A/C, 175 MLO															
	Module Number & Type	Lutron Panel #	Dimming Circuit	Room	Circuit Description	DL Zone	Notes	Fixture Type	Load Type	Qty	Fixture Load	Power Factor	Actual Load (WVA)	Amp Load	Module Load
1	4A	DH-01	DH-01	Spare					Auto			0.85	0	0.0	
		DH-02	DH-02	Restroom/Vestibule	Downlights			G	Auto	5	7.5	0.85	44	0.4	
		DH-03	DH-03	Atrium	Walkway Lights			A1	Auto	8	7.5	0.85	71	0.8	
		DH-04	DH-04	Spare								0.0	0	0.0	
2	4A	DH-05	DH-05	Main Dining - Family Table	Booth Lights			R1	MLV	5	15	0.833	90	0.8	
		DH-06	DH-06	Bar Dining	Downlights			A1	Auto	21	7.5	0.85	185	1.5	
		DH-07	DH-07	Lobby/Vestibule	Chandelier			D	Auto	1	48	0.85	56	0.5	
		DH-08	DH-08	Atrium	Downlights			A	Auto	13	7.5	0.85	115	1.0	3.7
3	4A	DH-09	DH-09	Vestibule	Downlights			A1	Auto	4	7.5	0.85	35	0.3	
		DH-10	DH-10	Bar Dining	Bar Top Lights			A	Auto	9	7.5	0.85	79	0.7	
		DH-11	DH-11	Main Dining	Table Lights			A/A1	Auto	8	7.5	0.85	71	0.8	
		DH-12	DH-12	Atrium	Table Lights			A	Auto	18	7.5	0.85	159	1.3	2.9
4	4A	DH-13	DH-13	Main Dining	Booth Lights			A	Auto	4	7.5	0.85	35	0.3	
		DH-14	DH-14	Main Dining	LED Strips			BLV	BLV	35	6	0.833	252	2.1	
		DH-15	DH-15	Main Dining	Walkway Lights			A1	Auto	32	7.5	0.85	282	2.4	
		DH-16	DH-16	Main Dining	Uplights			R1	MLV	16	15	0.833	288	2.4	7.1
5	4A	DH-17	DH-17	Spare					Auto			0.85	0	0.0	
		DH-18	DH-18	Main Dining	Pendants			Q1	MLV	10	9	0.833	108	0.9	
		DH-19	DH-19	Restrooms	Downlights			A1	Auto	21	7.5	0.85	185	1.5	
		DH-20	DH-20	Bar Dining	Pendants			Q3	MLV	4	9	0.833	43	0.4	2.8
6	4A	DH-21	DH-21	Atrium	Pendants			V1	MLV	1	38	0.833	46	0.4	
		DH-22	DH-22	Entry	Chandelier			D2	MLV	1	18	0.833	22	0.2	
		DH-23	DH-23	Main Dining	Pendants			Q2	MLV	1	9	0.833	11	0.1	
		DH-24	DH-24	Dining	Divider Wall Lights			BLV	BLV	8	4.1	0.85	39	0.3	1.0
7	4A	DH-25	DH-25	Bar Dining	Pendants			Q1	MLV	7	9	0.833	76	0.6	
		DH-26	DH-26	Bar Dining	Custom Pendants			B	MLV	1	50	0.833	60	0.5	
		DH-27	DH-27	Spare					Auto			0.85	0	0.0	
		DH-28	DH-28	Spare					MLV			0.833	0	0.0	1.1
8	4A	DH-29	DH-29	Bar Dining	Back Bar Lights			A	Auto	3	7.5	0.85	26	0.2	
		DH-30	DH-30	Main Dining	Pendants			Q1	MLV	7	9	0.833	76	0.6	
		DH-31	DH-31	Back Bar	Downlights			A1	Auto	4	7.5	0.85	35	0.3	
		DH-32	DH-32	Main Dining	Flag Accents			K2	BLV	2	18	0.833	43	0.4	1.5
9	4A	DH-33	DH-33	Exterior	Awning Lights			G2	BLV	5	7.5	0.833	45	0.4	
		DH-34	DH-34	Spare					Auto			0.833	0	0.0	
		DH-35	DH-35	Back Bar	LED Strips			Y	BLV	33	9	0.833	0	0.0	
		DH-36	DH-36	Bar	Undercounter LED (Back)			Y	BLV	33	1	0.85	39	0.3	0.7

LUTRON DIMMING PANEL LCP2 120/208V, 3PH, 4W 10K AIC, 175 MLO																
Breaker	Module Number & Type	Lutron Panel #	Dimming Circuit	Room	Circuit Description	DL Zone	Notes	Fixture Type	Load Type	Qty	Fixture e Load	Power Factor	Actual Load (WVA)	Amp Load	Module Load	
1	X	DH-31	DH-37	Signs			Controlled via Photocell	Auto	2	0.85	0	0.0				
		DH-32	DH-38	Building Lights			Controlled via Contactor Group	Non-Dim	2	1	0	0.0				
		DH-33	DH-39	Parking Lot Lights			Controlled via Contactor Group	Non-Dim	5	0.85	1	0	0.0			
		DH-34	DH-40	Parking Lot Lights			Controlled via Contactor Group	Non-Dim	4	0.85	0	0.0		0.0		
2	X	DH-35	DH-41	Kitchen	Truffers			NHE	Non-Dim	29	40	1	1160	9.7		
		DH-36	DH-42	Expo	Truffers			FH/PPGZ	Non-Dim	8	40	1	320	2.7		
		DH-37	DH-43	Back Bar	Under counter Work Lights			U	Non-Dim	4	14	1	56	0.5		
		DH-38	DH-44	Spare				Auto	1	1	0	0.0		12.8		
4	X	DH-39	DH-45	Back Bar	Tape Light			Y2	BLV	8	5	0.833	48	0.4		
		DH-40	DH-46	Back Bar	Tape Light			Y2	BLV	2	5	0.833	12	0.1		
		DH-41	DH-47	Back Bar	Tape Light			Y2	BLV	2	5	0.833	12	0.1		
		DH-42	DH-48	Back Bar	Tape Light			Y3	BLV	2	9	0.833	22	0.2	0.8	
5	4A	DH-43	DH-49	Spare				Auto	0.85	0	0.0					
		DH-44	DH-50	Exterior	Awning Lights			G2	BLV	10	7.5	0.85	86	0.7		
		DH-45	DH-51	Signs			Controlled via Photocell	Auto	2	0.833	0	0.0				
		DH-46	DH-52	Signs			Controlled via Photocell	Auto	0.833	0	0.0			0.7		
6	4A	DH-47	DH-53	Exterior	Soft Downlights			OL3	BLV	38	14.5	0.85	614	5.1		
		DH-48	DH-54	Donner	Porcelene Socket			G	MLV	3	6	1	18	0.2		
		DH-49	DH-55	Signs			Controlled via Photocell	Auto	1	1	0	0.0				
		DH-50	DH-56	Signs			Controlled via Photocell	Auto	1	1	0	0.0			6.3	

LUTRON DIMMING PANEL SCHEDULE
NOT TO SCALE

6



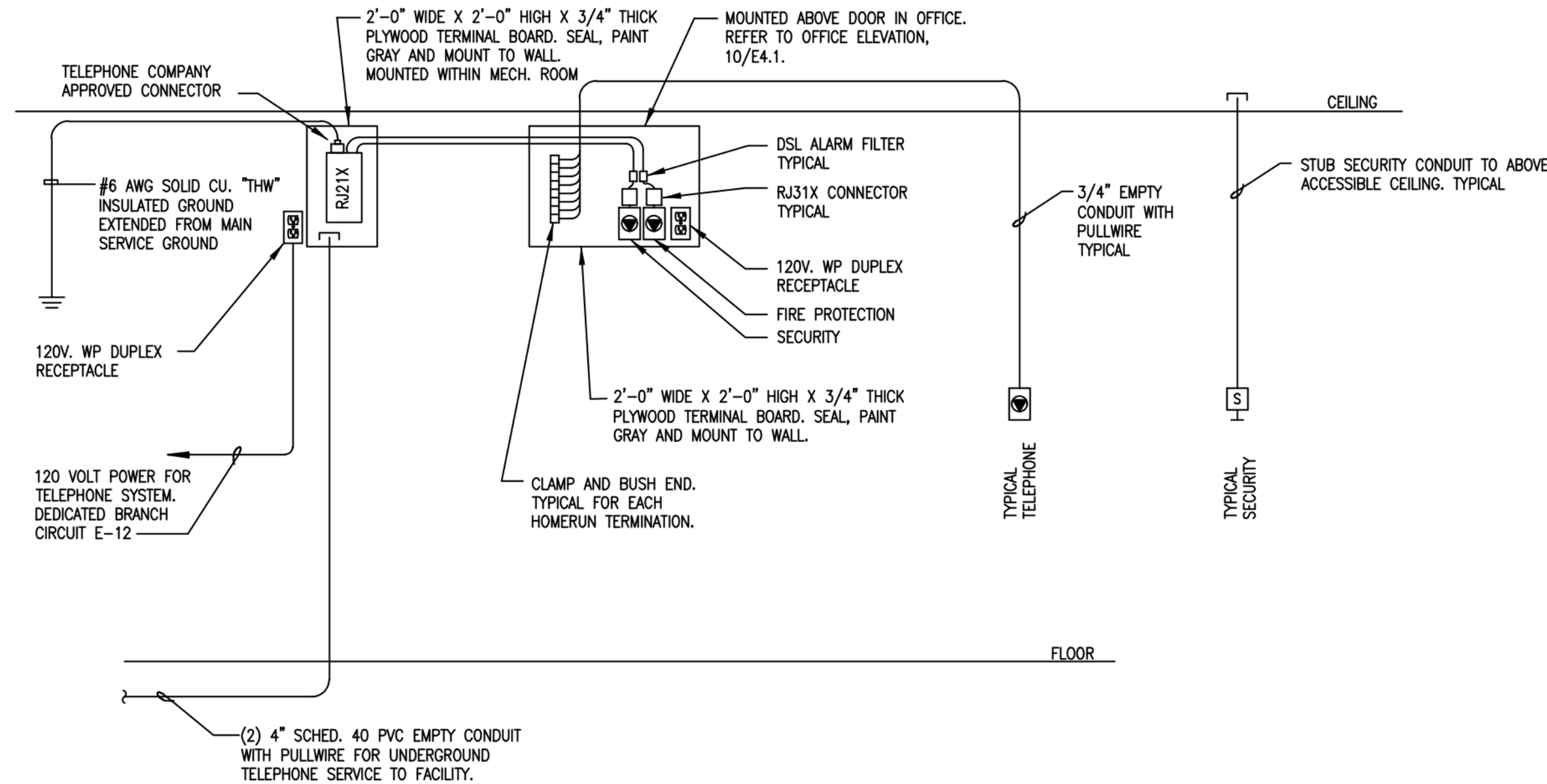
INDICATES PROVIDED AND
INSTALLED BY ELECTRICAL
CONTRACTOR

EXHAUST & MAKE-UP AIR INTERLOCK WIRING DIAGRAM
SCALE: NONE

2

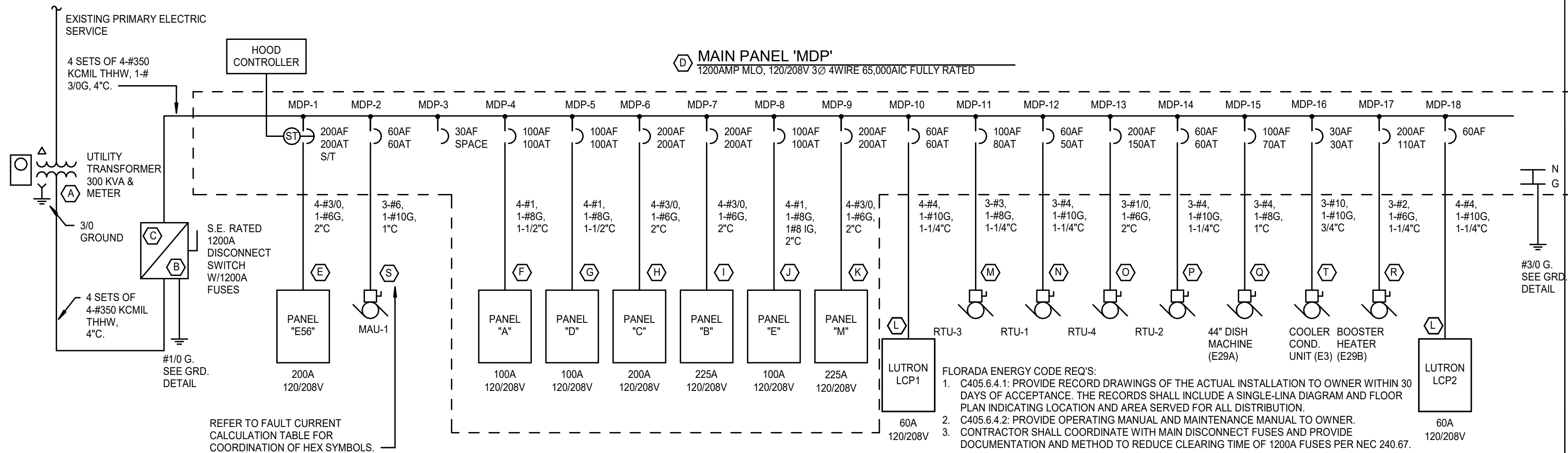
TELEPHONE SYSTEM RISER DIAGRAM

- VERIFY, COORDINATE AND INCORPORATE THE REQUIREMENTS OF THE TELE. CO. AND ALL GOVERNING CODES IN FORCE, PRIOR TO COMMENCEMENT OF WORK.
- FURNISH AND INSTALL A RACEWAY SYSTEM OF CABLE AND 3/4" CONDUIT AND PROPERLY SIZED JUNCTION BOXES WITH COVERPLATES FOR THE TELEPHONE SYSTEM AS SHOWN ON THE DRAWINGS AND IN THE DIAGRAM.
- ALL CONDUIT SHALL ORIGINATE AT THE JUNCTION BOXES, BE NO SMALLER THAN 3/4" ELECTRICAL TRADE SIZE, BE CONTINUOUS AND TERMINATE AT THE SYSTEM TERMINAL BOARD NEATLY CLAMPED AND WITH BUSHED ENDS. HOME RUNS SHALL BE LIMITED TO ONE (1) TELEPHONE OUTLET IN ONE 3/4" CONDUIT.
- THERE ARE MULTIPLE DEDICATED TELEPHONE LINES AND THEY SHALL BE SEGREGATED FROM EACH OTHER AND SHALL BE SEGREGATED FROM THE STANDARD TELEPHONE LINES.
- ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A 200 LB TEST NYLON PULL LINE IN ANY EMPTY CONDUIT. TAG EACH END OF PULL LINE AS TO SERVICE AND THE LOCATION OF THE OPPOSITE TERMINUS OF THE CONDUIT.



TELEPHONE SYSTEM RISER DIAGRAM
SCALE: NONE

4



ELECTRICAL ONE-LINE RISER DIAGRAM
SCALE: NONE

5

AVAILABLE FAULT CURRENT CALCULATIONS

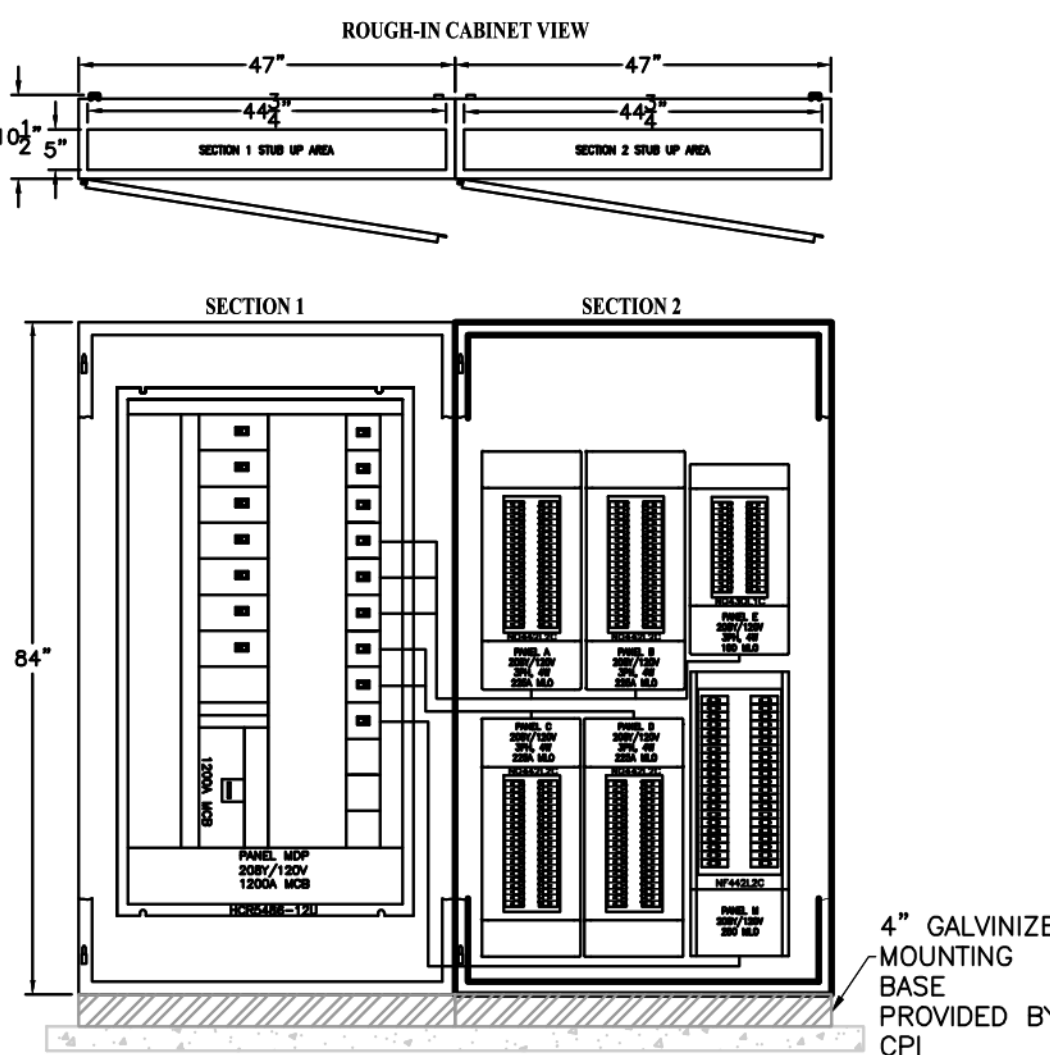
Design Point		Available Fault Current at Source End (A)	C Value	One-Way Length (ft)	I Value	M Value	Available Fault Current at Load End (A)
A		55514	28033	25	0.1374	0.8792	48807
B		49807	22965	3	0.0177	0.9826	47959
C		47959	22965	1	0.0058	0.9942	47682
D		47682	28033	55	0.2597	0.7939	20000
E		20000	12844	25	0.3242	0.7552	15104
F		20000	3806	37	1.6190	0.3818	7636
G		20000	7293	5	0.1142	0.8975	17950
H		20000	7293	5	0.1142	0.8975	17950
I		20000	12844	5	0.0648	0.9391	18782
J		20000	12844	5	0.0648	0.9391	18782
K		20000	7293	5	0.1142	0.8975	17950
L		20000	12844	5	0.0648	0.9391	18782
M		20000	3806	50	2.1879	0.3137	6274
N		20000	4774	50	1.7443	0.3644	7288
O		20000	2425	22	1.5109	0.3983	7965
P		20000	8925	28	0.5225	0.6568	13136
Q		20000	3806	18	0.7876	0.5594	11188
R		20000	3806	20	0.8752	0.5333	10686
T		20000	981	20	3.3954	0.2275	4550
L		20000	5907	20	0.5639	0.6394	12789
L		20000	3806	50	2.1879	0.3137	6274

CALCULATIONS PERFORMED USING BUSSMANN POINT-TO-POINT METHOD. ASSUMPTIONS ARE A 300 KVA UTILITY TRANSFORMER WITH IMPEDANCE OF 2.1%Z. CONTRACTOR SHALL VERIFY THIS INFORMATION WITH UTILITY COMPANY AND NOTIFY ENGINEER IMMEDIATELY IF TRANSFORMER SIZE IS LARGER, IMPEDANCE IS SMALLER, OR FEEDER LENGTHS ARE SHORTER THAN INDICATED. SIZE FUSE AND EQUIPMENT AIC RATINGS ACCORDINGLY.

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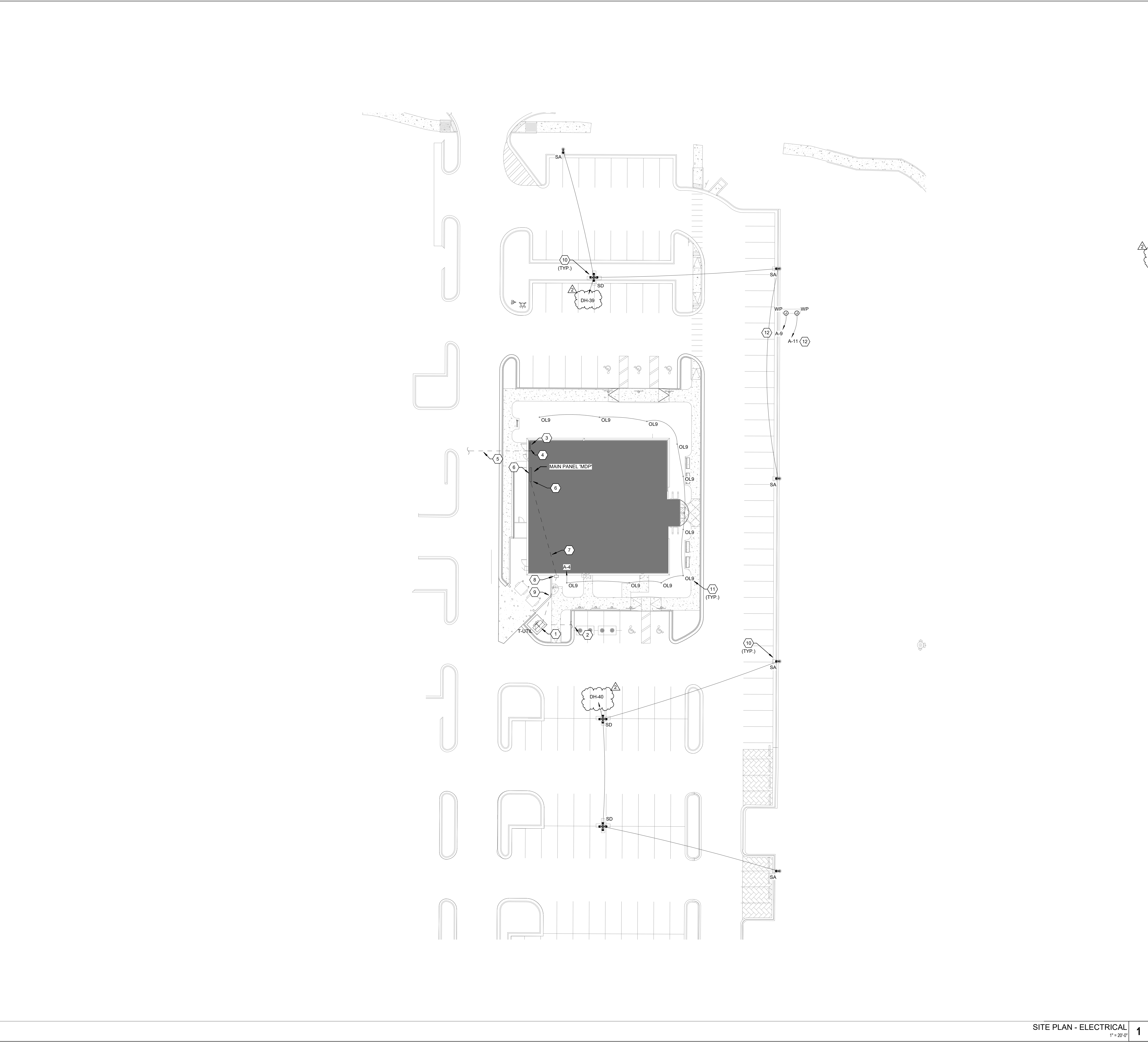
FAULT CURRENT CALCULATION
SCALE: NONE

7



ELECTRICAL SWITCHGEAR ELEVATION
SCALE: 1/2" = 1'-0"

8



KEYNOTES - ES.0	
1	POWER COMPANY PAD MOUNTED TRANSFORMER, 120/208V, 3 PHASE, 4 WIRE SECONDARY. CONTRACTOR TO INSTALL CONCRETE PAD, GROUNDING AND BARRIERS PER POWER COMPANY REQUIREMENTS.
2	EXISTING UNDERGROUND PRIMARY CONDUIT WITH UTILITY CONDUCTORS ARE EXISTING TO REMAIN.
3	LOCATION OF TELEPHONE BOARD. REFER TO SHEET E3.0 FOR FINAL LOCATION.
4	STUB UP LOCATION OF TELEPHONE SERVICE CONDUIT. CAP AND FLAG.
5	2-4" EMPTY PVC CONDUITS WITH PULLWIRE FROM STUB UP LOCATION NEAR TELEPHONE BOARD (NOTE 3) TO PROPERTY LINE. CAP & FLAG. VERIFY LOCATION WITH TELEPHONE COMPANY PRIOR TO WORK.
6	STUB UP LOCATION OF SECONDARY FEEDER AT MAIN PANEL 'MDP'. SECTION OF UNITIZED SWITCHBOARD 'USB'.
7	UNDERGROUND SERVICE SECONDARY FEEDER, 4 SETS (4-350KCM, 4"CI) FROM SERVICE DISCONNECT LOCATION TO LOCATION OF UNITIZED SWITCHBOARD 'MDP' BY CONTRACTOR. TRANSITION FROM PVC TO RGS CONDUIT AT ELBOW BELOW GRADE FOR ABOVE GRADE ROUTING.
8	ELECTRICAL SERVICE MAIN DISCONNECT SWITCH ON EXTERIOR WALL OF BUILDING. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3'-0" SEPARATION BETWEEN THE GAS METER AND ANY ELECTRICAL SERVICE EQUIPMENT.
9	UNDERGROUND SERVICE SECONDARY FEEDER, 4 SETS (4-350KCM, 4"CI) FROM UTILITY TRANSFORMER TO MAIN DISCONNECT SWITCH LOCATION BY CONTRACTOR. TRANSITION FROM PVC TO RGS CONDUIT AT ELBOW BELOW GRADE FOR ABOVE GRADE ROUTING. COORDINATE EXACT LENGTH OF FEEDER AND LOCATION OF TRANSFORMER WITH LOCAL UTILITY COMPANY AND INCLUDE ALL SECONDARY WORK AND MATERIALS IN BID.
10	NEW SITE LIGHTING ON POLE BASES. CONNECT TO CIRCUIT A-1 AND A-3.
11	PROVIDE (9) TYPE 'QL9' LIGHT FIXTURES FOR LANDSCAPING. COORDINATE LOCATIONS OF LIGHT FIXTURES WITH LANDSCAPE DESIGNER PRIOR TO ROUGH-IN.
12	REFER TO DETAIL 5/E3.3 FOR LIGHTING CONTROLS.

COMMISSIONING STATEMENT	
1	PER THE REQUIREMENTS OF THE FLORIDA ENERGY CODE SECTION C408, A COMMISSIONING/TESTING AGENT(S) IS RESPONSIBLE FOR THE TESTING AND/OR CALIBRATION OF THE BUILDING SYSTEMS.
2	SYSTEMS TO BE TESTED, OR SERVICES TO BE PERFORMED, SHALL INCLUDE, BUT ARE NOT LIMITED TO: -LIGHTING SYSTEMS OCCUPANCY SENSOR CONTROLS -TIME CONTROLS / TIME CLOCK -DAYLIGHT RESPONSIVE CONTROLS
3	COMMISSIONING AGENT(S) SHALL VERIFY INSTALLED EQUIPMENT MATCHES THE SPECIFIED EQUIPMENT SHOWN ON THE CONSTRUCTION DOCUMENTS.
4	UPON COMPLETION, COMMISSIONING AGENT SHALL PROVIDE A FULL REPORT STATING THE EQUIPMENT IS IN COMPLIANCE WITH AND/OR SYSTEMS HAVE BEEN CALIBRATED TO THE CONDITIONS STATED IN THE CONSTRUCTION DOCUMENTS.

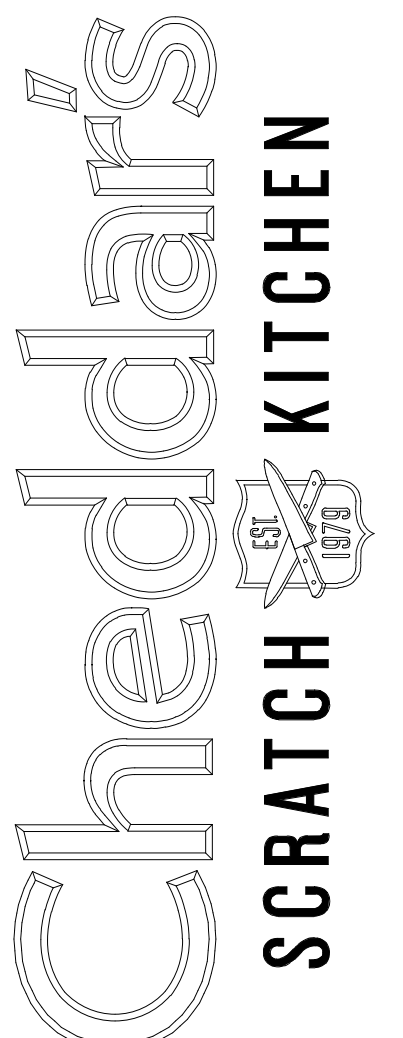
MEP ENGINEER:

JARRET L. RICE, P.E. (LIC# 82028) PLANO, TEXAS
PHONE: (409) 908-7195

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PROJECT NUMBER
DCH22007

CLIENT:
DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Issue Date: 02.15.2023

REVISION INFORMATION

1	CITY COMMENTS	04.04.2023
2	COORDINATION COMMENTS	04.05.2023

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

BLOOMINGDALE AVE &
GORNTO LAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
ELECTRICAL SITE
PLAN

ES.0

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology - Medium & Large

Rev. Date: V5.01/14/2021

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weatherlight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 4L lumen package is a suitable upgrade for HID applications up to 250 Watt, and the T1 Lumen package is a suitable upgrade for HID applications up to 400 Watt. The C2L lumen package is a suitable upgrade for HID applications up to 750 Watts, and the 26L lumen package is a suitable upgrade for HID applications up to 1000 Watts.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: 4,000 - 30,000

Efficacy: Up to 173 LW

CRt: Minimum 70 CRI (3000K, 4000K & 5700K), 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty: 10 years on luminaires, 10 years on ColorStar DeltaGuard® finish, up to 5 years for Sympress® accessories, 1 year on luminaire accessories

For warranty terms, see Sympress accessories, contact Sympress spec sheets for details on warranty terms.

Ordering Information

Fully assembled luminaires are composed of two components that must be ordered separately.

Example Mount: OSQ-ML-B-DA-80 + Luminaire: OSQ-M-B-4L-10000-5700K-10000-5700K-10000-5700K

Mount Luminaire must be ordered separately*

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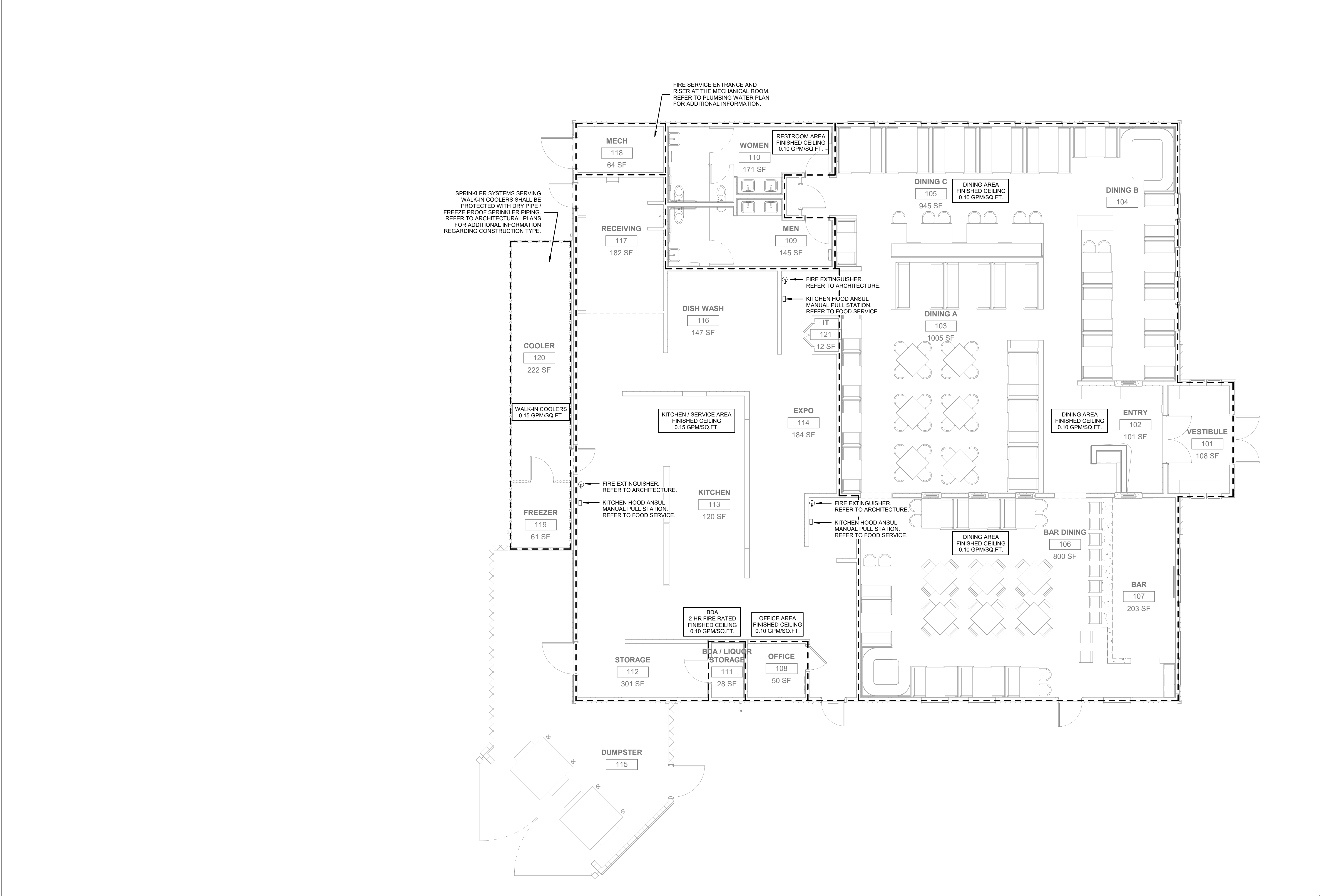
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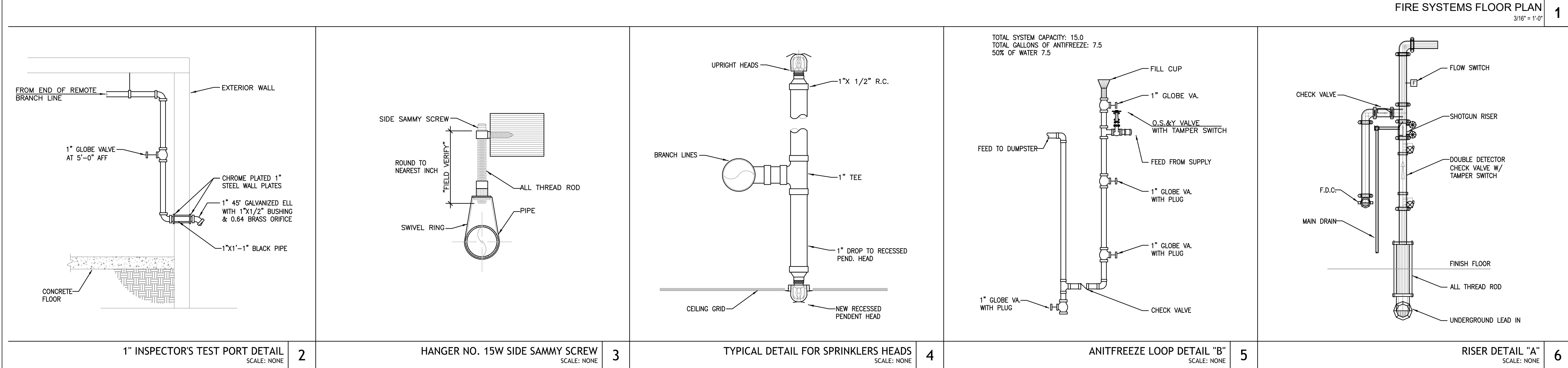
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OSQ-ML-B-4L-10000-5700K-10000-5



FIRE PROTECTION DESIGN CRITERIA				
KITCHEN / SERVICE AREA				
CLASSIFICATION	DENSITY	AREA OF COVERAGE	COVERAGE PER SPRINKLER	HOSE STREAM ALLOWANCE
ORD. HAZARD GROUP 1	0.15 GPM / SQ.FT.	1500 SQ.FT.	130 SQ.FT.	250 GPM
DINING AREA				
CLASSIFICATION	DENSITY	AREA OF COVERAGE	COVERAGE PER SPRINKLER	HOSE STREAM ALLOWANCE
LIGHT HAZARD	0.10 GPM / SQ.FT.	1500 SQ.FT.	225 SQ.FT.	100 GPM
TRASH ENCLOSURE (DRY PIPE OR FREEZE PROTECTION)				
CLASSIFICATION	DENSITY	AREA OF COVERAGE	COVERAGE PER SPRINKLER	HOSE STREAM ALLOWANCE
LIGHT HAZARD	0.10 GPM / SQ.FT.	1500 SQ.FT.	225 SQ.FT.	100 GPM

GENERAL NOTES - FIRE PROTECTION				
1	COORDINATE FIRE SPRINKLER HEAD LOCATIONS AND RELATED PIPING WITH ALL OTHER TRADES, EQUIPMENT, PIPING, ETC.			
2	FIRE SPRINKLER SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 - LATEST EDITION, NFPA 14 - LATEST EDITION, NFPA 17 - LATEST EDITION, 2018 INTERNATIONAL FIRE CODE, AND THE LOCAL AUTHORITY HAVING JURISDICTION.			
3	FIRE SPRINKLER CONTRACTOR SHALL SUBMIT SCALED LAYOUT DRAWINGS FOR THE FIRE PROTECTION SYSTEM, INDICATING HANGER LOCATIONS, PIPE SIZES, LOCATIONS, ELEVATIONS, SLOPE OF HORIZONTAL RUNS, WALL AND FLOOR PENETRATIONS AND CONNECTIONS.			
4	PROVIDE FLOW SWITCH, SHUTOFF VALVE WITH TAMPER SWITCH AND BACK FLOW PREVENTERS AS REQUIRED BY LOCAL AND STATE CODES.			
5	EXACT LOCATION & NUMBER OF SPRINKLER HEADS SHALL BE FIELD VERIFIED AND ADJUSTED AT TIME OF INSTALLATION TO PROVIDE FULL COVERAGE.			
6	GENERALLY, IT IS THE INTENTION FOR FIRE SPRINKLER MAINS AND BRANCH LINES TO BE ROUTED AS HIGH AS POSSIBLE TIGHT TO THE BOTTOM SIDE OF THE ROOF DECK, TO MAXIMIZE CLEARANCE WITH DUCTWORK AND OTHER TRADES.			
7	ROUTE ANY EXPOSED PIPING TIGHT TO BEAMS OR STRUCTURAL FRAMING WHEREVER POSSIBLE SO AS TO RENDER THE PIPING TO BE CONSIDERED CONCEALED.			
8	ANY EXTERIOR COMPONENTS SHOWN ARE ONLY FOR THE INTENT AND PURPOSE OF INDICATING NODES AND DISTANCES IN HYDRAULIC CALCULATIONS.			
9	ALL SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING TILES UNLESS NOTED OTHERWISE. REFER TO REFLECTED CEILING PLAN FOR CEILING TILE PATTERNS.			
10	NO PIPING SHALL BE RUN OVER ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR.			
11	SPRINKLER HEAD TYPES SHALL BE INSTALLED AS FOLLOWS:			
11a	HEADS LOCATED IN FINISHED CEILINGS IN THE FRONT OF HOUSE GUEST AREAS SHALL BE FULLY CONCEALED WITH FLAT BLACK FINISH POP CAPS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES, LOCATIONS, AND ELEVATIONS.			
11b	HEADS LOCATED IN KITCHEN/ SERVICE AREAS SHALL BE CHROME FINISH RECESSED WITH CHROME ESCUTCHEONS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES, LOCATIONS, AND ELEVATIONS.			
11c	HEADS LOCATED EXPOSED UNDER THE TRASH ENCLOSURE CEILING SHALL BE BRASS UPRIGHT. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES, LOCATIONS, AND ELEVATIONS. AND MECHANICAL PLANS FOR PROPOSED DUCTWORK ROUTING.			
11d	HEADS LOCATED CONCEALED ABOVE FINISHED CEILINGS SHALL BE BRASS UPRIGHT.			
11e	HEADS SERVING THE FRONT OF HOUSE PORCH AREAS SHALL BE INSTALLED AS SIDEWALL CHROME FINISH DRY TYPE, LOCATED AS HIGH AS POSSIBLE. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES, LOCATIONS, AND ELEVATIONS.			
12	PROVIDE WIRE GUARDS ON SPRINKLER HEADS IN COOLER AND FREEZER.			
13	CONTRACTOR TO INSTALL DRY/ FREEZE PROOF SPRINKLER SYSTEM IN ALL AREAS SUBJECT TO POTENTIAL FREEZING.			
14	PRIOR TO INSTALLATION, COORDINATE LOCATIONS OF SPRINKLER HEADS WITH PATO HEATERS TO AVOID INADVERTENTLY SETTING OFF SPRINKLERS DUE TO HEATER PROXIMITY.			
15	PROPERLY FILL ANY PENETRATION WITH FOAM TO PREVENT ANY AIR OR CONDENSATION LEAKS.			
16	CONTRACTOR TO INSTALL DRY SPRINKLER SYSTEM IN ALL AREAS SUBJECT TO POTENTIAL FREEZING. COORDINATE REQUIREMENTS WITH THE LOCAL JURISDICTION.			
17	PROVIDE KNOX BOX IF REQUIRED BY LOCAL CODE. COORDINATE WITH ARCHITECT AND FIRE MARSHALL.			
18	CONTRACTOR SHALL SUBMIT (3) SETS OF SHOP DRAWINGS & CALCULATIONS TO ARCHITECT FOR APPROVAL AND ANY REQUIRED SETS TO THE FIRE MARSHALL/ BUILDING DEPARTMENT FOR APPROVAL.			
19	CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE EXISTING WATER MAIN TO DETERMINE THE SYSTEM PRESSURES AND FLOWS.			
20	A PERMIT IS REQUIRED BEFORE WORK STARTS. ALL TESTS SHALL BE WITNESSED BY A FIRE INSPECTOR. DO NOT COVER UP UNDERGROUND PIPING UNTIL ALL INSPECTIONS AND TESTING HAVE BEEN COMPLETED.			
21	CONTRACTOR SHALL VERIFY CEILING HEIGHTS. HEADS SHALL BE INSTALLED FOR HEIGHTS CALLED OUT ON ROOM FINISH SCHEDULE.			
22	CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS TO OWNERS INSURANCE CARRIER FOR APPROVAL PRIOR TO SYSTEM INSTALLATION.			
23	CONTRACTOR SHALL SUPPLY TO THE ARCHITECT/ ENGINEER A RECORD COPY OF INSTALLATION DRAWINGS AND CALCULATIONS WITH STAMPED APPROVAL AND APPROVAL LETTER FROM STATE AND LOCAL OFFICIALS AND OWNERS INSURANCE CARRIER. CONTRACTOR SHALL ALSO PROVIDE ARCHITECT WITH SIGNED COPIES OF ALL TEST CERTIFICATES.			
24	THE SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION BEEN MADE.			
25	CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATION AND INSTALLATION OF THE COMPLETE SPRINKLER SYSTEM. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: -INSTALLATION OF THE APPROPRIATE SPRINKLER HEADS. -INSTALLATION OF THE APPROPRIATE PIPING AND HANGERS. -INSTALLATION OF THE ALARM CHECK VALVE ASSEMBLY. -INSPECTOR TEST CONNECTION. -BACKFLOW PREVENTION IF REQUIRED BY LOCAL AUTHORITIES. -RISER PIPE SHALL BE SIZED BY THE FIRE PROTECTION CONTRACTOR.			
26	AUTOMATIC SPRINKLER SYSTEM SHOP DRAWINGS, BASED ON AN APPROVED ENGINEER DESIGN INTENT, SHALL PROVIDE DETAILS FROM THE POINT OF SERVICE. POINT OF SERVICE IS DEFINED AS THE POINT IMMEDIATELY AFTER THE TAP OF THE SERVICE MAIN WHERE WATER IS USED EXCLUSIVELY FOR FIRE PROTECTION PURPOSES. PER RULE 0780-02-07-(1)(C).			
27	FIRE PROTECTION SYSTEMS SHALL BE DESIGNED FOR SEISMIC DESIGN CATEGORY C AS INDICATED IN THE 'SEISMIC LOADS' SECTION ON SHEET S0.0 AND RISK CATEGORY 'TYPE II' AS INDICATED IN THE 'CRITERIA' SECTION ON SHEET S0.0.			
28	FIRE EXTINGUISHER LOCATIONS NOTED ARE FOR REFERENCE ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS (SHEET A1.2, KEYNOTE #5).			



MEP ENGINEER:
JARRET L. RICE, P.E. (LIC# 82028) PLANO, TEXAS
PHONE: (409) 908-7198
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PROJECT NUMBER
DCH22007

CLIENT:
DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1

CITY COMMENTS

04.04.2023

2

COORDINATION COMMENTS

04.05.2023

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

BLOOMINGDALE AVE &
GORNTO LAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
FIRE SYSTEMS
FLOOR PLAN

FP1.1

KITCHEN COOLER CONDENSING UNIT SCHEDULE							
MARK	SERVICE	EVAPORATOR		CONDENSER		MFR / MODEL	NOTES
		AMPS	V / PH	AMPS	V / PH		
FCU - /CU-3	WALK-IN COOLER	1.6	120 / 1	16.6	208 / 3	KOLPAK / SEC53K3	ALL
FCU - /CU-13	WALK-IN FREEZER	1.0	208 / 3	12.6	208 / 3	KOLPAK / SEC53K3	ALL
FCU - /CU-142a	ICE MACHINE	3.0	120 / 1	8.4	208 / 3	HOSHIZAKI / URC22F	ALL
FCU - /CU-142b	ICE MACHINE	3.0	120 / 1	8.4	208 / 3	HOSHIZAKI / URC22F	ALL

NOTES:

- SCHEDULED INFORMATION INCLUDED FOR COORDINATION ONLY. REFER TO FOOD SERVICE PLANS AND MANUFACTURER SHOP DRAWINGS FOR EXACT SPECIFICATION.
- INSTALL COMPLETE WITH MANUFACTURER AVAILABLE SUSPENSION MOUNTING BRACKET.
- COORDINATE POWER AND DISCONNECT REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

AIR BALANCE SCHEDULE						
MARK	DINING (CFM)			KITCHEN (CFM)		
	S/A	O/A	E/A	S/A	O/A	E/A
RTU-1	3800	1200	-	-	-	-
RTU-2	3800	1200	-	-	-	-
RTU-3	4500	1540	-	-	-	-
RTU-4	-	-	-	9500	950	-
MAU-1	-	-	-	5790	5790	-
KEF-1	-	-	-	-	-	2900
KEF-2	-	-	-	-	-	1750
KEF-3	-	-	-	-	-	1970
KEF-4	-	-	-	-	-	1850
DEF-1	-	-	-	-	-	1000
TEF-1	-	-	400	-	-	-
SUBTOTALS	12100	3940	400	15290	6740	9470
DINING PRESSURIZATION (O/A - E/A):				3540		
KITCHEN PRESSURIZATION (O/A - E/A):				-2730		
NET BUILDING PRESSURIZATION (DINING + KITCHEN):				810	+3.0%	

O/A VENTILATION SCHEDULE						
AREA SERVED	VENTILATION (OCCUPANCY)			VENTILATION (AREA)		
	# OF PPL	CFM / PERSON	CFM	SQ. FT.	CFM / SF	CFM
DINING	236	7.5	1770	3319	0.18	597
OFFICE	2	7.5	15	62	0.18	11
KITCHEN	24	7.5	180	2041	0.12	245
RESTROOMS	0	0	0	452	0	0
SUBTOTALS			1965			854
TOTAL O.A. REQUIRED (CFM):			2819			
TOTAL O.A. PROVIDED (CFM):			4050			

ELECTRIC HEATER SCHEDULE								
MARK	SERVICE	TYPE	HTG. CAPACITY	MAX. AMPERAGE	VOLTS / PH	MFR	MODEL	NOTES
UH-1	MECH ROOM	UNIT / CABINET	3.0 KW	350	208 / 1	QMARK	MUH30-B1	1,2,3

NOTES:

- COORDINATE POWER AND DISCONNECT REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- INSTALL COMPLETE WITH MANUFACTURER AVAILABLE SUSPENSION MOUNTING BRACKET.
- INCLUDE MANUFACTURER AVAILABLE INTEGRAL THERMOSTAT TO PREVENT FREEZING.

MECHANICAL AND PLUMBING ENERGY SUMMARY						
TOTAL BTU/h FOR COOLING AND COMBINED BTU/h FOR HEATING / HOT WATER					TOTAL COOLING BTU/h	COMBINED BTU/h FOR HEATING & HW
					866,200	1,448,000
HVAC CONTROLS NARRATIVE:		PACKAGED ROOFTOP UNITS SHALL BE CONTROLLED BY 24/7 PROGRAMMABLE THERMOSTAT. UNITS ARE PROVIDED WITH DUAL ENTHALPY ECONOMIZER.				
		RTU-1	RTU-2	RTU-3	RTU-4	MAU-1
DESIGN AIR FLOW OF SPACES (CFM)		3800	3800	4500	9500	5790
AIR SIDE ECONOMIZERS? (Y/N)		Y	Y	Y	Y	Y
AUTOMATIC MODULATING CONTROL OF OUTDOOR AIR DAMPERS? (Y/N)		Y	Y	Y	Y	Y
KITCHEN EXHAUST SYSTEM AIR BALANCING		HOOD-1 EXHAUST (CFM)	HOOD-2 EXHAUST (CFM)	HOOD-3 EXHAUST (CFM)	HOOD-4 EXHAUST (CFM)	HOOD-5 EXHAUST (CFM)
		2900	1750	1970	1850	1000
CONTROLS FOR WALK IN COOLER AND FREEZER		WALK INS WILL BE PROVIDED WITH INTERNAL THERMOSTAT. ONCE INTERNAL TEMPERATURE REACHES SET POINT THE CONDENSER AND EVAPORATOR SPONGS WILL SHUT OFF. ONCE SET TEMP IS MET THE CONDENSER AND EVAPORATOR WILL SHUT OFF.				
		RTU-1	RTU-2	RTU-3	RTU-4	MAU-1
COOLING CAPACITY OF HVAC UNITS (BTU/h)		116,700	121,800	144,100	303,600	180,000
ECONOMIZER CONTROLS		ECONOMIZERS FOR THE PACKAGED ROOFTOP UNITS ARE ENTHALPY ECONOMIZERS. WHEN THE OUTDOOR TEMPERATURE IS BELOW 80 DEGREES AND THE HUMIDITY IS LESS THAN 50% THE ECONOMIZER WILL BE ON IF COOLING IS CALLED FOR. IN ECONOMIZER MODE THE UNIT WILL DELIVER 100% OUTDOOR AIR AND THE RELIEF AIR DAMPER WILL OPEN ON THE UNIT.				
HOT WATER RECIRCULATION PUMP		PUMP IS PROVIDED WITH INTEGRAL TIMER WITH SETPOINTS.				

TRANE NATIONAL ACCOUNTS EQUIPMENT PACKAGE

NOTES:

1. **CHEDDAR'S RESTAURANTS HAS A NATIONAL ACCOUNT AGREEMENT WITH TRANE FOR BUNDLED SOLUTIONS. THE ROOFTOP UNITS ARE AN OWNER FURNISHED ITEM, ASSIGNED TO THE INSTALLING CONTRACTOR. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROPER INSTALLATION AND ONE YEAR LABOR WARRANTY.**
2. **FOR COMPLETE INFORMATION ON THE SCHEDULED PACKAGE OF EQUIPMENT, CONTACT TRANE NATIONAL ACCOUNTS.**
3. **ANY CHANGES OR VARIATIONS TO THE ORIGINAL EQUIPMENT PACKAGE DESCRIBED HEREIN THAT WOULD AFFECT THE HVAC EQUIPMENT PACKAGE SHOULD BE BROUGHT TO THE ATTENTION OF THE ACCOUNT COORDINATOR AT THE NATIONAL ACCOUNTS AT THE TIME OF QUOTATION.**
4. **HEATING AND COOLING EQUIPMENT PACKAGE:**
INCLUDES ALL ROOFTOP AIR CONDITIONERS (INCLUDING CURBS) OR SPLIT SYSTEM AIR CONDITIONING EQUIPMENT WITH ALL ACCESSORIES AS SPECIFIED ON THE PLANS.
5. **ORDERING PROCEDURES:**
TRANE NATIONAL ACCOUNTS DEPARTMENT WILL ORDER EQUIPMENT AND COORDINATE SHIPMENT WITH THE SUCCESSFUL HVAC CONTRACTOR. THE HVAC CONTRACTOR WILL BE RESPONSIBLE FOR EQUIPMENT WARRANTY, DELIVERY COORDINATION, RECEIVING AND INSTALLATION AS DESCRIBED IN THE SPECIFICATIONS. THE HVAC CONTRACTOR SHALL CONTACT TRANE NATIONAL ACCOUNTS AT 407.551.1162.
6. **SHOP DRAWING SUBMITTALS:**
TRANE SHALL PREPARE SHOP DRAWING SUBMITTAL PACKAGE CONSISTING OF THE FOLLOWING INFORMATION:
 - UNIT SELECTION AT SITE ALTITUDE INCLUDING COOLING AND HEATING CAPACITIES.
 - INFORMATION ON THE HUMIDIDITY OPTION INCLUDING SENSORS.
 - OUTSIDE AIR ECONOMIZER AND HALL GUARD (AS REQUIRED).
 - THERMOSTAT AND REMOTE SENSORS (INCLUDING WIRING DIAGRAMS) PER DRAWINGS.
 - THERMOSTAT PROGRAMMING INSTRUCTIONS AND SEQUENCE OF OPERATIONS.
 - ELECTRICAL POWER CHARACTERISTICS INCLUDING HORSEPOWER, VOLTAGE, AND AMPERAGE.
 - THERMOSTAT OPTIONS SUCH AS DISCONNECT AND RECEPTACLE.
 - ROOF CURB INFORMATION.
 - INSTALLATION INSTRUCTIONS.
 - OPERATING AND MAINTENANCE MANUALS.
7. **EQUIPMENT START-UP INSTRUCTION:**
INSTALLING CONTRACTOR IS RESPONSIBLE FOR INITIAL STARTUP. RUNNING THE UNITS & MAINTAINING THE AIR FILTERS DURING THE CONSTRUCTION PHASE, TWO WEEKS PRIOR TO THE BUILDING TRAINING. THE CONTRACTOR WILL COORDINATE THE EQUIPMENT STARTUP VERIFICATION WITH TRANE. THE CONTRACTOR MUST PROVIDE ONE TECHNICIAN TO WORK WITH TRANE.

MECHANICAL TESTING SCHEDULE


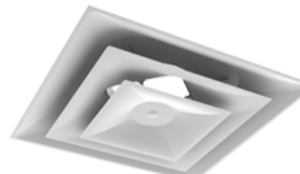
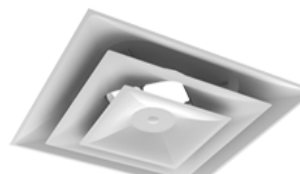
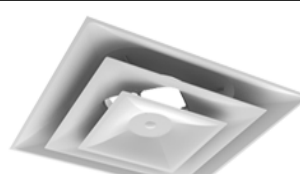
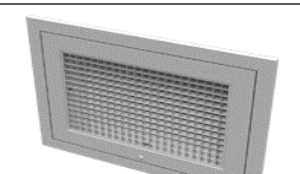

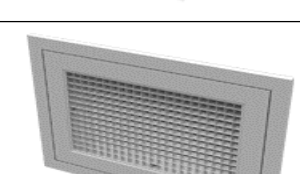
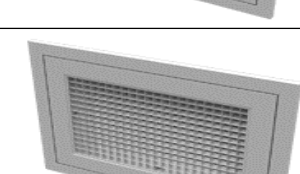
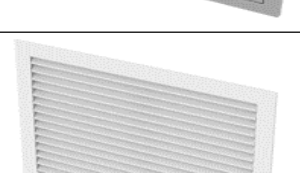
NOTES:

CHEDDAR'S CASUAL CAFE HAS A NATIONAL ACCOUNT AGREEMENT WITH THE MELNIX CORPORATION FOR A FULL MECHANICAL TEST AND ANALYSIS (T.A.B.) REMEDIATION SURVEY AND REPORT, TO BE PAID BY THE OWNER.

FOR COMPLETE INFORMATION ON SCHEDULING THE T.A.B. STORE VISIT, CONTACT THE MELNIX CORPORATION AT 513.965.7300 AND PROVIDE APPLICABLE PROJECT INFORMATION INCLUDING THE SITE LOCATION, INTENDED TURNOVER SCHEDULE AND AVAILABLE CONSTRUCTION DOCUMENTS.

PACKAGED ROOFTOP UNIT SCHEDULE					
	MARK	RTU-1	RTU-2	RTU-3	RTU-4
GENERAL	SERVING	SIDE DINING	DINING ENTRY	BAR	KITCHEN
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE
	MODEL NO.	YHC120F	YHC120F	YHC150F	YHD300G
	TYPE	GAS	GAS	GAS	GAS
	OPERATING WEIGHT, LBS.	1608	1608	2620	2940
ELEC.	DIMENSIONS (LxWxH)	100x64x51	100x64x51	122x84x56	122x84x66
	MINIMUM EER	12.4	12.4	12.1	10.6
	VOLTS / PH / HZ	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
	MCA (AMPS)	48	48	86	117
	MOCF (AMPS)	60	60	80	150
SUPPLY FAN	SUPPLY AIR CFM	3800	3800	4500	9600
	SUPPLY AIR CFM	1200	1400	1500	850
	ESP (IN. W.G.)	0.8	0.8	0.8	0.8
	FAN RPM	1100	1100	1100	1100
	MOTOR HP	2.75	2.75	3.0	7.5
COOLING	NOMINAL SIZE TONS	10	10	12.5	25
	TOTAL CAPACITY (MBH)	116.7	121.8	144.1	303.6
	SENSIBLE CAPACITY (MBH)	65.4	68.5	81.2	242.0
	OUTSIDE AIR DB/WB, °F	92.5 / 77.0	92.5 / 77.0	92.5 / 77.0	92.5 / 77.0
	ENTERING AIR DB/WB, °F	80.5 / 67.4	80.5 / 67.4	81.0 / 67.8	78.8 / 64.4
HEATING	TYPE OF HEAT	GAS	GAS	GAS	GAS
	HEATING INPUT (MBH)	200	200	250	400
	HEATING OUTPUT (MBH)	160	160	200	320
	OUTSIDE AIR DB/WB, °F	39	39	39	39
	LEAVING AIR DB/WB, °F	95	95	95	95

NOTES	ALL	ALL	ALL	ALL
1. PROVIDE A FACTORY AVAILABLE UN-INSULATED FLAT ROOF CURB THAT SHALL BE FIELD ASSEMBLED AND SHIMMED SUCH THAT THE TOP OF THE CURB SETS LEVEL. ROOF CURBS TO BE INSTALLED BY THE GENERAL CONTRACTOR, AND FIELD INSULATED BY THE MECHANICAL CONTRACTOR.				
2. PROVIDE WITH LOW AMBIENT CONTROL S, MICROPROCESSOR CONTROLS, CONDENSER COIL HANG GUARD (FOR 'A' AND 'B' CABINETS), HINGED ACCESS PANELS, CRANK CASE HEATER, FRESH AIR TEMPERING KIT, AND FROSTAT.				
3. PROVIDE WITH MANUFACTURER'S PROGRAMMABLE 24/7 THERMOSTAT. REMOTE TEMPERATURE AND HUMIDITY SENSORS CAPABLE OF AUTOMATIC COOLING/HEATING CHANGEOVER. - THE CONTROL WIRING FOR THE THERMOSTAT SHALL BE 18AWG STRANDED, SINGLE TWISTED PAIR, NEW UN-SHIELDED, 100% ALUMINUM SHIELD DRAIN WIRE AND PLENUM RATED TEFLOW JACKET (BELDEN 88750). - THE CONTROL WIRING FOR THE HUMIDISTAT SHALL BE 22AWG STRANDED, TWO TWISTED PAIRS, NEW UN-SHIELDED, 100% ALUMINUM SHIELD DRAIN WIRE AND PLENUM RATED TEFLOW JACKET (BELDEN 88273). - REFER TO THE PLAN SHEETS FOR PROPOSED MOUNTING LOCATIONS OF CONTROL DEVICES.				
4. PROVIDE FACTORY INSTALLED OUTDOOR ENTHALPY CONTROL ECONOMIZER WITH FULL MODULATING MOTORIZED OUTSIDE AIR DAMPER. FIELD ADJUST BOTH DIP SWITCHES TO THE RIGHT FOR ODE SETTING.				
5. MECHANICAL CONTRACTOR SHALL PROVIDE A FIELD INSTALLED RETURN AIR SMOKE DETECTOR 10'-0" DOWNSTREAM OF THE UNIT PRIOR TO RETURN AIR GRILL DUCT CONNECTIONS, CAPABLE OF SENSING DOWN THE ROOFTOP UNIT UPON ACTIVATION. INSTALL COMPLETE WITH A KEYED REMOTE DETECTOR (BLACK) INSTALLED IN THE RETURN AIR DUCT.				
6. PROVIDE FACTORY INSTALLED ELECTRICAL DISCONNECT. CONVENIENCE RECEPTACLE SHALL BE FIELD WIRED BY THE E.C. AND POWERED SEPARATELY FROM THE UNIT.				
7. PROVIDE SINGLE POINT ELECTRICAL POWER CONNECTION INCLUDING STARTERS AND CONTROLS.				
8. PROVIDE WITH HUMIDITOP OPTION FOR HOT GAS REHEAT, AND MANUFACTURER'S ADJUSTABLE REMOTE HUMIDITY SENSOR CAPABLE OF AUTOMATIC OPERATION OF THE COOLING CYCLE (ONCE THE DEMAND FOR COOLING IS SATISFIED BY THE T-STAT) FOR SUPPLEMENTAL DEHUMIDIFICATION.				
9. UNIT SELECTIONS ARE BASED ON R-410A REFRIGERANT.				

MARK	PICTURE	FACE SIZE	TYPE	MOUNTING TYPE	MAXIMUM N.C.	THROW	MANUFACTURER	MODEL	NOTES
A		24x24	SUPPLY	LAY-IN (TILE CLG.)	30	1-WAY	TITUS	PAS	1,3,4,5,9
B		24x24	SUPPLY	SURFACE (GYP CLG.)	30	4-WAY	TITUS	TMS	2,3,4,6,9
C		12x12	SUPPLY	SURFACE (GYP CLG.)	30	4-WAY	TITUS	TMS	2,3,4,6,9
D		24x24	SUPPLY	LAY-IN (TILE CLG.)	30	4-WAY	TITUS	TMS	2,3,4,6,9
F		24x24	RETURN	SURFACE (GYP CLG.)	30	1-WAY	TITUS	50FF	2,3,9
G		24x24	SUPPLY	LAY-IN (TILE CLG.)	30	4-WAY	EGER	EAMR12W	1,3,8,9
H		12x24	RETURN	SURFACE (GYP CLG.)	30	1-WAY	TITUS	50FF	1,3,9
J		24x24	RETURN	LAY-IN (TILE CLG.)	30	1-WAY	TITUS	50FF	1,3,9
K		14x14	EXHAUST	SURFACE (GYP CLG.)	30	1-WAY	TITUS	3FL	2,3,6,9

NOTES:

1. AIR DEVICES MOUNTED ON A WHITE SURFACE IN BACK OF HOUSE SHALL BE INSTALLED WITH FACTORY APPLIED OFF WHITE FINISH.
2. AIR DEVICES IN THE FRONT OF HOUSE SHALL BE INSTALLED WITH MANUFACTURER APPLIED FINISH TO MATCH CEILING COLOR, INCLUDING THE INTERIOR OF THE DEVICE. ALL INTERIOR SURFACES VISIBLE FROM "LINE-OF-SIGHT" INCLUDING COLLARS AND FLANGES SHALL BE FIELD PAINTED BLACK.
3. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR INTENDED INSTALLATION.
4. AIR DEVICE SHALL BE INSTALLED WITH MANUFACTURER AVAILABLE MOLDED INSULATION BACKING.
5. AIR DEVICE NEAR THE EXHAUST HOOD CANOPY SHALL BE INSTALLED COMPLETE WITHOUT SUPPLY AIR FLOW PATTERN CONTROLLERS, TO PREVENT INTERFERENCE WITH EXHAUST CAPTURE AND CONTAINMENT.
6. AIR DEVICE SHALL BE INSTALLED WITH ACCESSIBLE OPPOSED BLADE DAMPER FOR MANUAL VOLUME ADJUSTMENT.
7. INSTALL COMPLETE WITH MANUFACTURER AVAILABLE INSULATED PLENUM AND TYPE 2A CONCEALED FLANGE FRAME. AIR DEVICE SHALL BE INSTALLED WITH CONTINUOUS FRONT FACE WITH END CAPS AT EITHER END OF THE FULL LENGTH.
8. INSTALL AS AN ALL PLASTIC DEVICE AND COMPONENTS, COMPLETE WITH MANUFACTURER AVAILABLE COLLAR. CONTACT 817.929.6400 FOR ORDERING AND SHIPPING.
9. ACCEPTABLE MANUFACTURER FOR INSTALLED AIR DEVICE IS AS LISTED ONLY.
10. INSTALL COMPLETE WITH MANUFACTURER SUPPLIED FLUSH MOUNT SCREWS. PAINT TO MATCH AIR DEVICE.
11. INSTALL COMPLETE WITH MANUFACTURER AVAILABLE TRIM FRAME.
12. AIR DEVICE SHALL BE INSTALLED WITH OPPOSED BLADE DAMPER AND INSTALLED TO ALLOW VOLUME ADJUSTMENT VIA REMOVABLE CENTER CORE OF AIR DEVICE.

KITCHEN EXHAUST HOOD SCHEDULE									
MARK	SERVICE	WIDTH	EXH. RATE (CFM / LF)	EXHAUST COLLAR	EXHAUST AIR (CFM)	MAKE-UP AIR (CFM)	HVAC AIR (CFM)	MOUNTING HEIGHT (AFF)	NOTES
HOOD #1	CHARBROLER	10'-6"	276	16"Ø	2900	1275	600	80"	ALL
HOOD #2	PASTA COOKER	8'-9"	200	14"Ø	1750	930	460	80"	ALL
HOOD #3	RANGE	8'-9"	225	14"Ø	1970	930	460	80"	ALL
HOOD #4	OVEN	10'-6"	176	14"Ø	1850	1275	600	80"	ALL
HOOD #5	DISH MACHINE	9'-3"	108	12"Ø	1000	-	-	80"	4,5,6,7,8,9

1. THE CONTROLS AND LIGHTING FOR THE COOKLINE EXHAUST HOODS SHALL BE FIELD WIRED TO INTERLOCK ALL EXHAUST FANS AND THE MAKEUP AIR UNIT TO START AND STOP SIMULTANEOUSLY. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS.
2. THE EXHAUST HOOD SHALL BE FACTORY EQUIPPED WITH PREPARED FIRE SUPPRESSION SYSTEM TO MEET NFPA 96. THE EXHAUST HOOD MANUFACTURER SHALL CONTACT THE FINAL PIPING AND HOOKUP OF THE FIRE SUPPRESSION SYSTEM.
3. THE ELECTRICAL CONTRACTOR SHALL: INTERLOCK THE FIRE PROTECTION SYSTEM TO THE HOOD ELECTRICAL CONTROL CABINET AND TO THE ELECTRIC GAS SOLENOID VALVE (INSTALLED BY THE PLUMBING CONTRACTOR) AND FIELD WIRE THE TEMPERATURE SENSORS FROM EACH GREASE DUCT TO THE HOOD ELECTRICAL PANEL. THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL BE INTERLOCKED TO THE COOKLINE EXHAUST FANS AND MAKEUP AIR UNIT. THE CONTRACTOR SHALL PROVIDE THE INTERLOCK TO THE FIRE ALARM SYSTEM IN CONJUNCTION WITH THE FIRE DEPARTMENT. THE CONTRACTOR SHALL PROVIDE AND INSTALL INTERLOCKS FROM THE FIRE SUPPRESSION SYSTEM AS SPECIFIED IN THE SEQUENCE OF OPERATION PROVIDED IN THE CAPTIVEAIRE DRAWINGS.
4. THE EXHAUST HOOD SHALL BE INSTALLED PER THE HEIGHT SPECIFIED IN THE CAPTIVEAIRE DRAWINGS, AND LOCATED IN SPACE PER THE ARCHITECTURAL REFLECTED CEILING PLAN.
5. THE EXHAUST HOOD IS FACTORY FABRICATED FOR UL LISTED CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL UL SPECIFICATIONS.
6. THE EXHAUST HOOD SHALL BE FIELD CUT FOR THE INSTALLATION OF THE EXHAUST COLLAR(S). EXHAUST COLLAR(S) SHALL BE PROVIDED WITH THE EXACT FIT, NOT BE OVERSIZED OR LOOSE (WITH BOLTS, RETAINING RINGS, AND FIRE RATED CAULK) FOR FIELD INSTALLATION PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. THE COMPLETE EXHAUST HOOD PACKAGE SHALL BE FURNISHED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR.
8. FOR ADDITIONAL INFORMATION PERTAINING TO THE EXHAUST HOOD PACKAGE, CONTACT MR. RYAN NATALE OF CAPTIVEAIRE AT 321.270.7696 OR RYAN.NATALE@CAPTIVEAIRE.COM
9. ALL KITCHEN EXHAUST HOODS SHALL BE PERMITTED UNDER SEPARATE PERMIT.

CFM	E.S.P. IN W.G.	DRIVE	MOTOR HP	RPM	VOLTS/PH	MFR.	MODEL	TYPE	WEIGHT	NOTES
2900	1.50	DIRECT	3.00	1166	208 / 3	CAPTIVEAIRE	DU180HFA	ROOF UPBLAST FAN	202	1,3,5,6,9,10
1750	1.00	DIRECT	1.50	1015	208 / 3	CAPTIVEAIRE	DU180HFA	ROOF UPBLAST FAN	187	1,3,5,6,9,10
1970	1.25	DIRECT	1.50	1019	208 / 3	CAPTIVEAIRE	DU180HFA	ROOF UPBLAST FAN	187	1,3,5,6,9,10
1850	1.00	DIRECT	1.50	1064	208 / 3	CAPTIVEAIRE	DU180HFA	ROOF UPBLAST FAN	187	1,3,5,6,9,10
1000	0.50	DIRECT	0.50	1515	120 / 1	CAPTIVEAIRE	DU50HFA	ROOF DOWNBLAST FAN	78	3,4,6,9,10
400	0.50	DIRECT	0.25	1282	120 / 1	CAPTIVEAIRE	DR30HFA	ROOF DOWNBLAST FAN	62	2,4,6,9
5790	0.50	DIRECT	10.00	1280	208 / 3	CAPTIVEAIRE	A3-24D-MPU	ROOF MAKEUP AIR FAN	1885	1,3,6,7,8,9,10

EQUIPPED WITH A PREWIRE PACKAGE TO INTERLOCK THE OPERATION OF THE COOKLINE EXHAUST FANS WITH THE MAKEUP AIR UNIT.
 WITH AN INDEPENDENT WEATHER PROOF DISCONNECT SWITCH IN SIGHT OF THE EQUIPMENT.
 (4) INTERNAL WIRING SHALL BE FACTORY INSTALLED.
 WITH A GRAVITY BACKDRIFT DAMPER.
 (5) CASE GUARDS (FURNISHED BY OWNER).
 TO BE INSTALLED BY MECHANICAL CONTRACTOR.
 D WITH HEAT PUMP CONDENSING UNITS, RATED FOR 16°F TEMP RISE OR APPROXIMATELY 103-MBH HEATING CAPACITY.
 EQUIPPED WITH DOUAL STAGE COOLING SYSTEM, RATED FOR 180-MBH TOTAL CAPACITY/ 106-MBH SENSIBLE CAPACITY, AND A COOLING
 CONTRACTOR SHALL FIELD ADJUST TO 75°F DB (ADJ.).
 STARTED-UP PER THE MANUFACTURER'S INSTALLATION, OPERATION, AND MAINTENANCE MANUALS". THE MECHANICAL CONTRACTOR SHALL
 MAINTENANCE DOCUMENTATION" INCLUDED WITH THE EQUIPMENT PACKAGE, AND PROVIDE A COPY TO THE CHEDDARS CONSTRUCTION MANAGER.
 MANUFACTURER FURNISHED DEMAND CONTROL VENTILATION SYSTEM, WITH THE VFD'S AND CONTROLS COMPONENTS LOCATED IN THE
 THE HOOBS.

MECHANICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	DUCTWORK
	LINED DUCTWORK
	SIZE TRANSITION
	SHAPE TRANSITION
	RADIUS ELBOW
	MITERED ELBOW
	MITERED ELBOW W/ TURNING VANES
	RADIUS TEE
	MITERED TEE
	MITERED TEE W/ TURNING VANES
	RECTANGULAR DUCT UP - MITERED ELBOW
	RECTANGULAR DUCT DOWN - MITERED ELBOW
	RECTANGULAR DUCT UP - RADIUS ELBOW
	RECTANGULAR DUCT DOWN - RADIUS ELBOW
	ROUND DUCT UP
	ROUND DUCT DOWN
	RECTANGULAR DUCT TAKEOFF WITH DAMPER
	ROUND DUCT TAKEOFF WITH DAMPER
	SIDEWALL SUPPLY GRILLE OR REGISTER
	FLEXIBLE DUCT
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE / REGISTER
	EXHAUST AIR GRILLE / REGISTER
	SLOT DIFFUSER
10X10 A-100	INDICATION OF DUCT SIZE, CFM, AND DIFFUSER TYPE
	SUPPLY AIRFLOW
	RETURN AIRFLOW
VD	MANUAL VOLUME DAMPER
VD	VOLUME DAMPER WITH BLADES
	SPIN-IN FITTING WITH DAMPER
FD	FIRE DAMPER
S	SMOKE DAMPER
F/S	FIRE SMOKE DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	THERMOSTAT
	REMOTE SENSOR
	HUMIDISTAT
	CO2 SENSOR
	CO SENSOR
	DUCT MOUNTED SMOKE DETECTOR

NOTE: NOT ALL SYMBOLS MAY APPLY - REFER TO FLOOR PLANS

MARK	SERVICE	LENGTH	CFM	ELECTRICAL			MFR.	MODEL	TYPE	WEIGHT	NOTES
				VOLTS/PH	MCA	MOPP					
AC-1	KITCHEN REAR SERVICE DOOR	36"	1750	120 / 1	5.0	20	MARS	STD36-1US-PW	WALL MOUNTED, DOWNBLAST	55	ALL
AC-2	STORAGE / RECEIVING DOOR	48"	2250	120 / 1	5.0	20	MARS	STD48-1US-PW	WALL MOUNTED, DOWNBLAST	55	ALL
AC-3	KITCHEN SIDE DOOR	36"	1750	120 / 1	5.0	20	MARS	STD36-1US-PW	WALL MOUNTED, DOWNBLAST	55	ALL

NOTES:

1. INSTALL COMPLETE WITH MANUFACTURER AVAILABLE DOOR LIMIT MICRO SWITCH.
2. UNIT SHALL HAVE A LOUVERED FACE.
3. OWNER FURNISHED WITH KITCHEN EQUIPMENT PACKAGE, INSTALLED BY MECHANICAL CONTRACTOR.


MARK	SERVICE	FUNCTION	START TIME	COOLING SETPOINT (°F)	HEATING SETPOINT (°F)	HUMIDITY SETPOINT (%RH)	NOTES
RTU-1	SIDE DINING	OCCUPIED	7:05 AM	71	71	40	1,2,3,4
		UNOCCUPIED	12:30 AM	78	55	40	
RTU-2	DINING ENTRY	OCCUPIED	7:10 AM	71	69	40	1,2,3,4
		UNOCCUPIED	12:30 AM	78	55	40	
RTU-3	BAR	OCCUPIED	7:15 AM	71	71	40	1,2,3,4
		UNOCCUPIED	12:30 AM	78	55	40	
RTU-4	KITCHEN	OCCUPIED	7:00 AM	68	66	40	1,2,3,4
		UNOCCUPIED	12:30 AM	79	55	40	
MAU-1	COOKLINE HOODS	INTERLOCK WITH FANS	MANUAL VIA HOOD SWITCH	75	50	N/A	5

NOTES:

1. UNIT FAN SHALL RUN ON AUTO DURING OCCUPIED HOURS, AND CYCLE ON DEMAND DURING UNOCCUPIED HOURS.
2. UPON A CALL FOR COOLING:
 - COMPRESSORS TO CYCLE TO MAINTAIN THE SPACE SETTING, WITH THE GAS HEATER LOCKED OUT.
 - THERE SHALL BE A 2° DEAD BAND (ADJUSTABLE) BETWEEN THE 1ST AND 2ND STAGE OF COOLING.
 - THERE SHALL BE A 5 MINUTE (ADJUSTABLE) TIME DELAY BETWEEN THE 1ST AND 2ND STAGE OF COOLING.
3. UPON A CALL FOR HEATING:
 - GAS FURNACE TO CYCLE TO MAINTAIN THE SPACE SETTING, WITH THE COMPRESSORS LOCKED OUT.
 - THERE SHALL BE A 2°F DEAD BAND (ADJUSTABLE) BETWEEN THE 1ST AND 2ND STAGE OF HEATING.
 - THERE SHALL BE A 5 MINUTE (ADJUSTABLE) TIME DELAY BETWEEN THE 1ST AND 2ND STAGE OF HEATING.
4. UPON A CALL FOR HUMIDITY CONTROL:
 - DURING OCCUPIED TIMES WHEN HUMIDISTAT INDICATES AN INCREASE IN HUMIDITY ABOVE THE SET POINT, THE HOT GAS REHEAT SYSTEM SHALL ACTIVATE TO REDUCE THE SPACE HUMIDITY TO BELOW SET POINT.
 - DURING UNOCCUPIED TIMES WHEN HUMIDISTAT INDICATES AN INCREASE IN HUMIDITY ABOVE THE SET POINT, THE FAN SHALL TURN ON AND THE HOT GAS REHEAT SYSTEM SHALL ACTIVATE TO REDUCE THE SPACE HUMIDITY TO BELOW SETPOINT.
5. MAKEUP AIR OPERATION:
 - THE MAKEUP AIR UNIT SHALL BE INTERLOCKED WITH THE EXHAUST HOOD CONTROLS PACKAGE FOR SIMULTANEOUS OPERATION.
 - COMPRESSORS TO CYCLE TO MAINTAIN THE SPACE SETTING, WITH THE GAS HEATER LOCKED OUT.
 - 1ST STAGE OF COOLING BRINGS ON (1) 5 TON CIRCUIT, 2ND STAGE OF COOLING BRINGS ON ADDITIONAL (2) 5 TON CIRCUITS.
 - GAS FURNACE TO CYCLE TO MAINTAIN THE SPACE SETTING, WITH THE COMPRESSORS LOCKED OUT.

MECHANICAL GENERAL NOTES

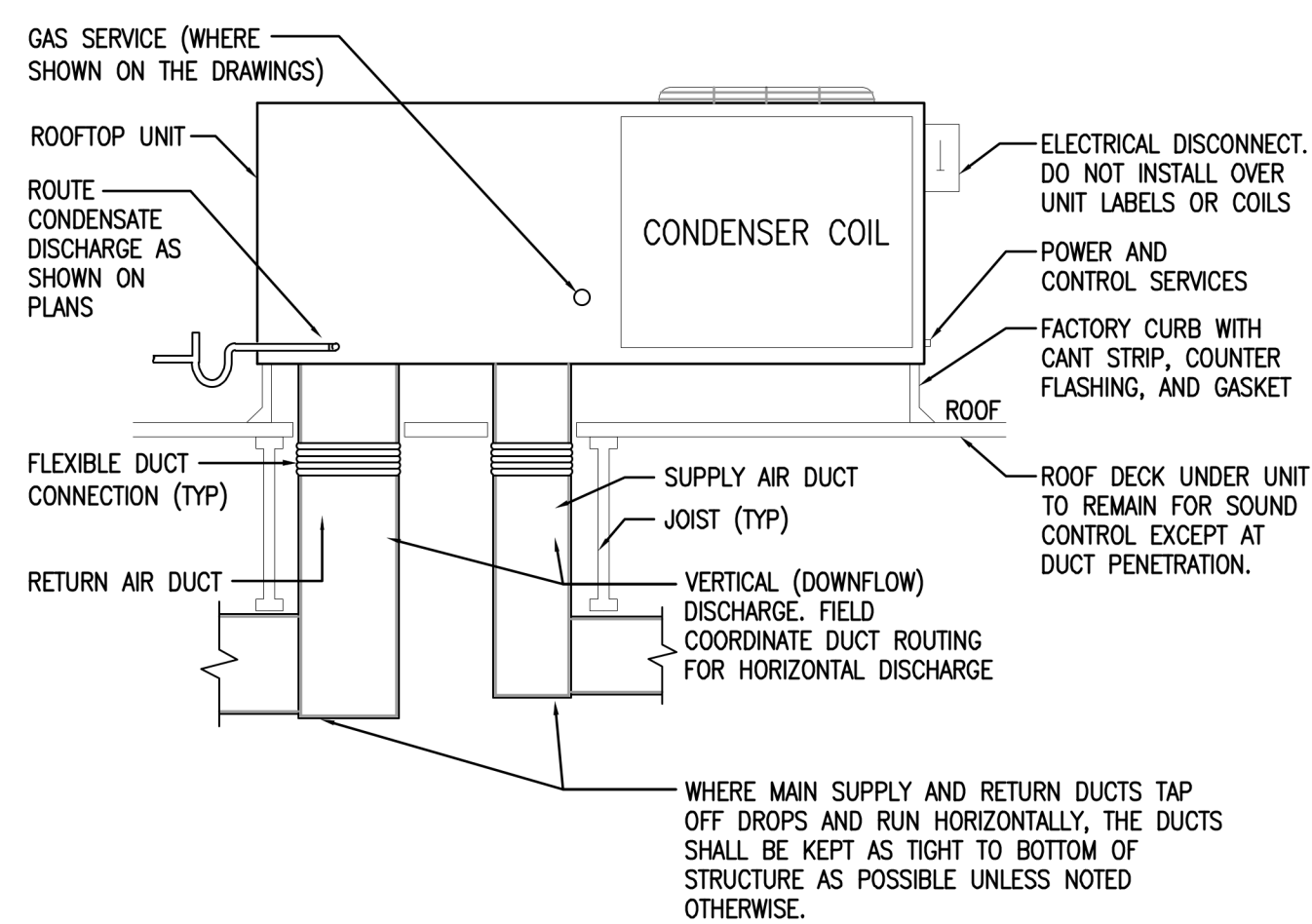
- 1 THESE GENERAL NOTES APPLY TO ALL SHEETS WITHIN THIS CONTRACTOR'S SCOPE OF WORK, UNLESS SPECIFICALLY OTHERWISE NOTED.
- 2 ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, RULES, REGULATIONS, ORDINANCES, AND ORDERS.
- 3 DRAWINGS ARE SCHEMATIC IN NATURE. EXACT LOCATIONS OF DUCTWORK, PIPING, AND EQUIPMENT, INCLUDING REQUIRED CLEARANCES, SHALL BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
- 4 RIGHT-HAND / LEFT-HAND CONFIGURATION OF EQUIPMENT SHALL BE COORDINATED BY THE CONTRACTOR BASED ON EXISTING LAYOUT OF DUCTWORK, PIPING, STRUCTURE, AND/OR EQUIPMENT.
- 5 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD STOPPING AT ALL MECHANICAL PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS, AND PARTITIONS, REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF RATED STRUCTURES.
- 6 THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIAL, AND/OR CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
- 7 REPORT ALL DISCREPANCIES, IN WRITING, TO THE ENGINEER IMMEDIATELY.
- 8 COORDINATE CEILING DIFFUSERS AND GRILLES WITH LIGHTING FIXTURES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF DIFFUSERS.
- 9 CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND/OR EQUIPMENT OR BEGINNING ANY WORK WITHOUT AUTHORIZATION.
- 10 CONTRACTOR SHALL FIELD-VERIFY ALL WALLS TO DECK AND PROVIDE TRANSFER BOOTS THRU ALL WALLS TO DECK PER DETAILS.
- 11 EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY REPORT. CONTRACTOR SHALL VERIFY ALL HIGH RISE CONDITIONS AND PROVIDE TRUE REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 12 CONTRACTOR SHALL ENGAGE AN INDEPENDENT AIR BALANCING COMPANY (NEBB OR AABC CERTIFIED) TO OBTAIN AIR QUANTITIES SHOWN ON DRAWING. AT THE KNOW OF AIR FLOW MEASUREMENTS SHALL BE TAKEN AT EACH INLET AND PROPERLY SEALED WITH FOIL TAPE. WHERE DAMPER IS LOCATED IN OPEN CEILING APPLICATION, FOIL TAPE SHALL BE OMITTED.
- 13 ALL LOW PRESSURE DUCTWORK SHALL BE GALVANIZED SHEET METAL. ALL HIGH PRESSURE DUCTWORK SHALL BE GALVANIZED STEEL. ALL WORK SHALL BE IN ACCORDANCE WITH SMACNA STANDARD. DUCTWORK SHALL BE INSULATED WITH AN MINIMUM OF 1" INS BLANKET WITH FOIL FACED VAPOR BARRIER TO MEET IECC REQUIREMENTS.
- 14 ALL SUPPLY AND RETURN DUCT SIZES ARE FREE AREA.
- 15 ALL RUNOUTS TO DIFFUSER SHALL BE SAME AS NECK SIZE UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR NECK SIZES.
- 16 OFFSET DUCTS INTO JOIST SPACE FOR CLEARANCE WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER TRADES.
- 17 INSULATED FLEX DUCT IN THE LOW PRESSURE SYSTEM SHALL BE LIMITED TO AN OVERALL LENGTH OF SIX (6) FEET WITH A MAXIMUM OF A 90 DEGREE CHANGE IN DIRECTION. SUPPORTS SHALL BE SADDLE BANGED TO STRUCTURE. SUPPORTING AND PROTECTIVE BRACING FOR ELECTRICAL CONDUIT AND CEILING SUPPORT WIRES IS NOT ACCEPTABLE.
- 18 PROVIDE THERMOSTAT IN EACH HVAC ZONE FOR NEW EQUIPMENT. CONTRACTORS TO BE RESPONSIBLE FOR THERMOSTAT INSTALLATION UNLESS NOTED OTHERWISE ON THE PLANS. CONTRACTOR TO VERIFY ALL THERMOSTATS LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN. COORDINATE PLACEMENT TO ROOMS, ZONES, AND/OR EQUIPMENT. CONTRACTOR TO PROVIDE ELECTRICAL CONTRACTOR TO PROVIDE -J-BOX AND CONDUIT TO ABOVE CEILING FOR ALL THERMOSTATS.
- 19 ALL ENCLOSED ROOMS, INTERIOR AND PERIMETER SHALL HAVE RETURN AIR EXHAUSTS WITH WALLS TO DECK. ALL WALLS TO DECK SHALL HAVE LINED SHEET METAL. RETURN AIR BOOTS PLACED IN WALL ABOVE CEILING SLICE FOR 500 FPM. RETURN AIR FLEX RATE RATED DUCT SHALL HAVE FIRE DAMPERS WITHIN THE DUCT PER LOCAL CODE REQUIREMENTS.
- 20 PIPES AND DUCTS SHALL BE COORDINATED ON JOB WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS. ROUTE AS HIGH AS PHYSICALLY POSSIBLE.
- 21 REPAIR AND PATCH CONSTRUCTION DAMAGED DUE TO THE DEMOLITION OF THIS PROJECT, USING SAME METHODS AND MATERIALS TO MATCH EXISTING.
- 22 PROVIDE TEMPORARY HIGH EFFICIENCY FIELD MEDIA ON MAIN RETURN AIR AND EXHAUST FROM LOW PRESSURE SYSTEMS. FIELD MEDIA TO BE CHANGED AT TWO (2) WEEK INTERVALS UNTIL PROJECT COMPLETION AT WHICH TIME THE FIELD MEDIA SHALL BE REMOVED.
- 23 CONTRACTOR SHALL PROVIDE UNGROUND CONCEALED DAMPER REGULATORS WITH A DAMPER CABLE CONTROL KIP EQUAL TO BOWDEN MODEL 270-896P FOR ALL GYPSUM BOARD APPLICATIONS WHERE THE DAMPER IS NOT DIRECTLY ACCESSIBLE. CORRELATE DAMPER CABLE TO DAMPER. VERIFY DAMPER AND CABLE COMPATIBILITY, WHERE POSSIBLE. LOCATE REMOTE DAMPER CONTROLLER ABOVE IN PORTION OF THE CEILING THAT IS FEASIBLE. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION. COORDINATE WITH GYPSUM BOARD CEILING AND COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF INSULATION.
- 24 ALL EXISTING DUCTWORK SHALL BE FIELD VERIFIED TO BE INSULATED AND IN GOOD CONDITION, ANY TORN, DAMAGED OR MISSING INSULATION WILL BE REPLACED. EXISTING CONTROLS SHALL BE CONFIRMED TO BE IN WORKING CONDITION.
- 25 MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL EQUIPMENT AND COMPONENTS REQUIRING THE ATTENTION OF OTHER CONTRACTORS. CONTRACTORS SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD REQUIREMENTS, CONDUIT FOR CONTROL WIRE, T-STAT WALL BOXES, FIRE ALARM DEVICES, FIRE SPRINKLERS NEAR EQUIPMENT, AND PLUMBING CONDENSATE DRAINAGE.
- 26 CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN STORAGE OF EQUIPMENT AND COMPONENTS PRIOR TO INSTALLATION. THIS INCLUDES, BUT NOT LIMITED TO, PROTECTION AGAINST DUST, CORROSION, DIRT, WATER, SUN LIGHT (U.V. RADIATION), AND OTHER DAMAGE.
- 27 CONTRACTOR SHALL INSTALL EQUIPMENT AND COMPONENTS IN SUCH A WAY THAT IT DOES NOT IMPEDE NEW OR EXISTING EQUIPMENT CLEARANCES.
- 28 CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS, GUIDELINES, AND ASSOCIATED DOCUMENTS.
- 29 ALL MATERIALS IN AN OPEN AIR RETURN AIR SHALL BE PLENUM RATED.
- 30 ALL EQUIPMENT AND COMPONENTS SHALL U.V. RATED OR APPROVED WHERE AVAILABLE. FOREIGN MADE EQUIPMENT AND COMPONENTS NOT U.V. RATED OR APPROVED WILL NOT BE ACCEPTED.

<p>REF ENGINEER:</p> <p>JARRET L. RICE, P.E. (LIC#82028) PLANO, TEXAS PHONE: (409) 608-1265</p> <p>THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE ONE NOTED IN THE TITLE BLOCK. WITHOUT THE WRITTEN CONSENT OF JARRET L. RICE, COPYRIGHT 2023</p>	
<p>PROJECT NUMBER</p> <p>DCH22007</p>	
<p>CLIENT:</p> <p>DARDEN RESTAURANTS, INC.</p> <p>1000 DARDEN CENTER DR.</p> <p>ORLANDO, FL 32837</p> <p>PHONE: 407.245.4000</p> <p>www.darden.com</p>	
<p>Cheddar's SCRATCH KITCHEN</p> 	

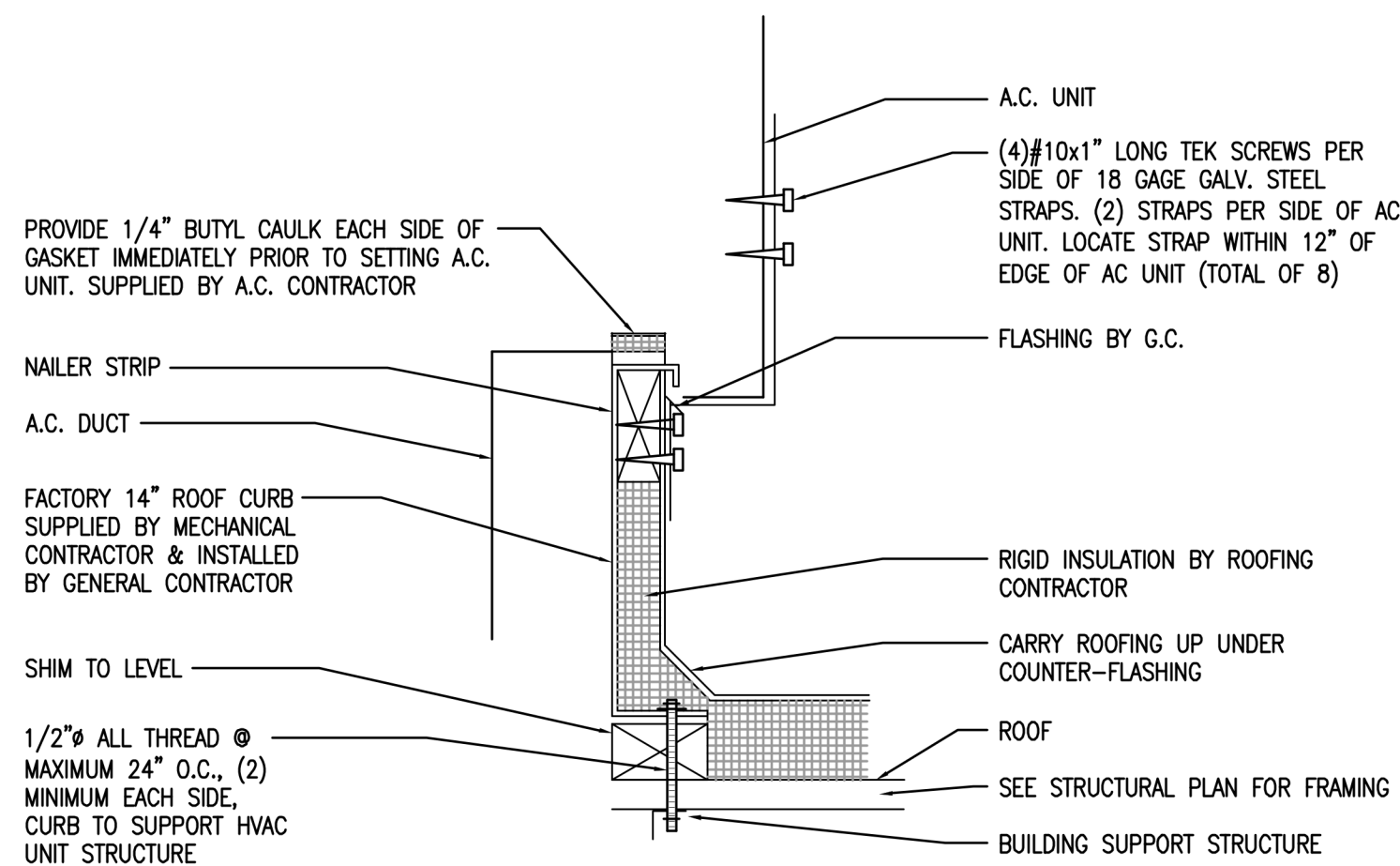
Issue Date:	02.15.2023
REVISION INFORMATION	
1 CITY COMMENTS	04.04.2023
2 COORDINATION COMMENTS	04.05.2023

Restaurant #:	21K0037
CHEDDARS SCRATCH KITCHEN PROTO 18	
BLOOMINGDALE AVE & GORNTO LAKE RD RIVERVIEW, FL 33578	
RIVERVIEW, FL	

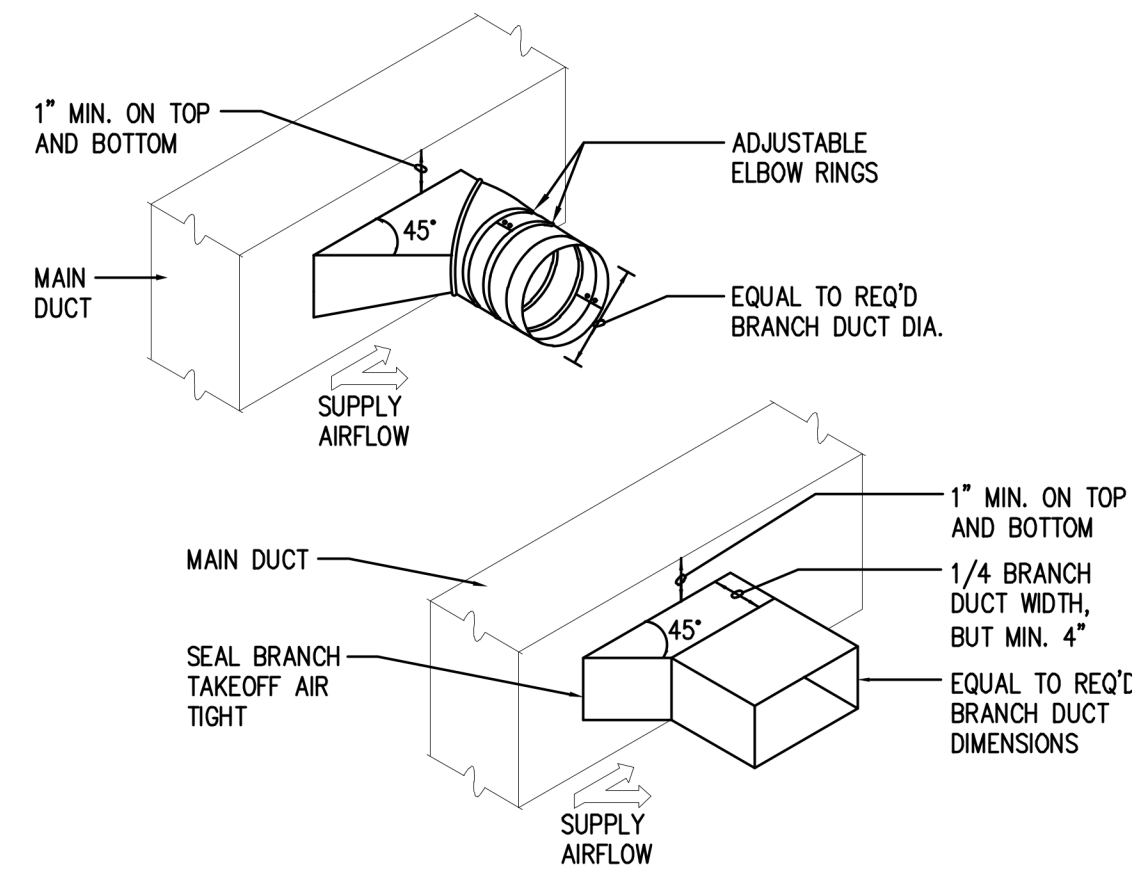
Drawing:
HVAC NOTES & SCHEDULES
M1.1



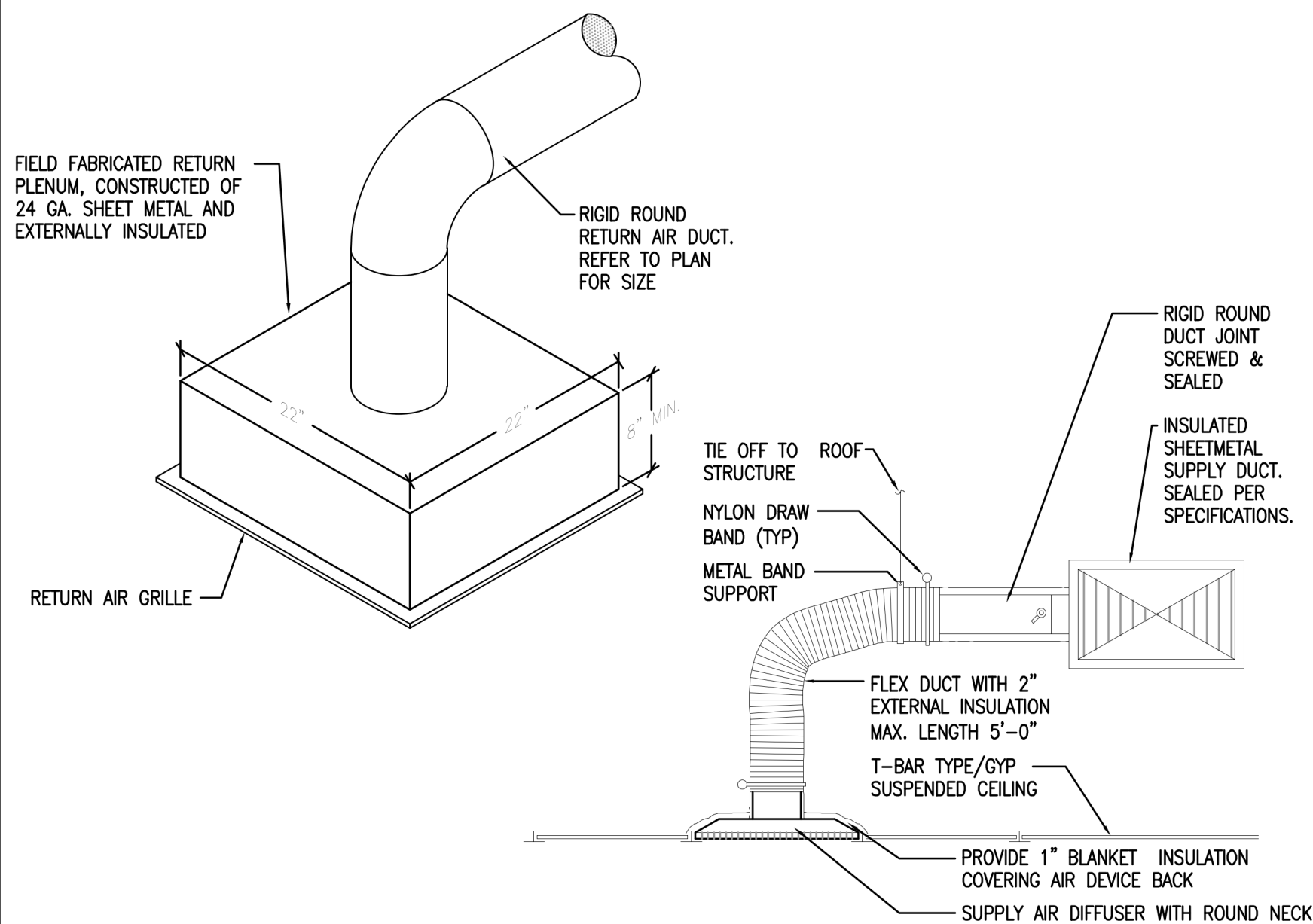
PACKAGED ROOFTOP UNIT DETAIL
SCALE: NONE



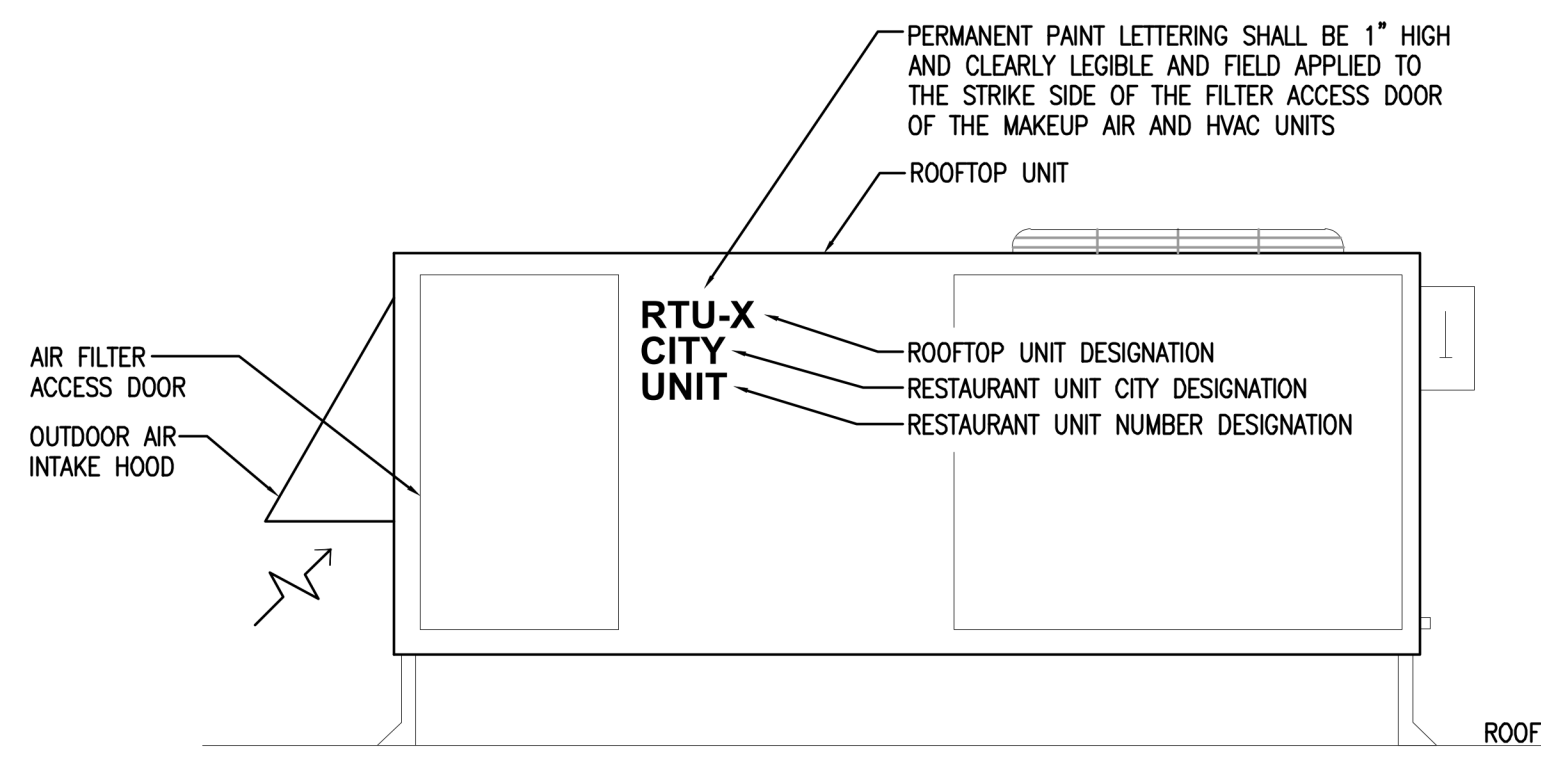
PACKAGED ROOFTOP UNIT CURB BASE DETAIL
SCALE: NONE



BRANCH TAKE-OFF FITTING DETAIL
SCALE: NONE



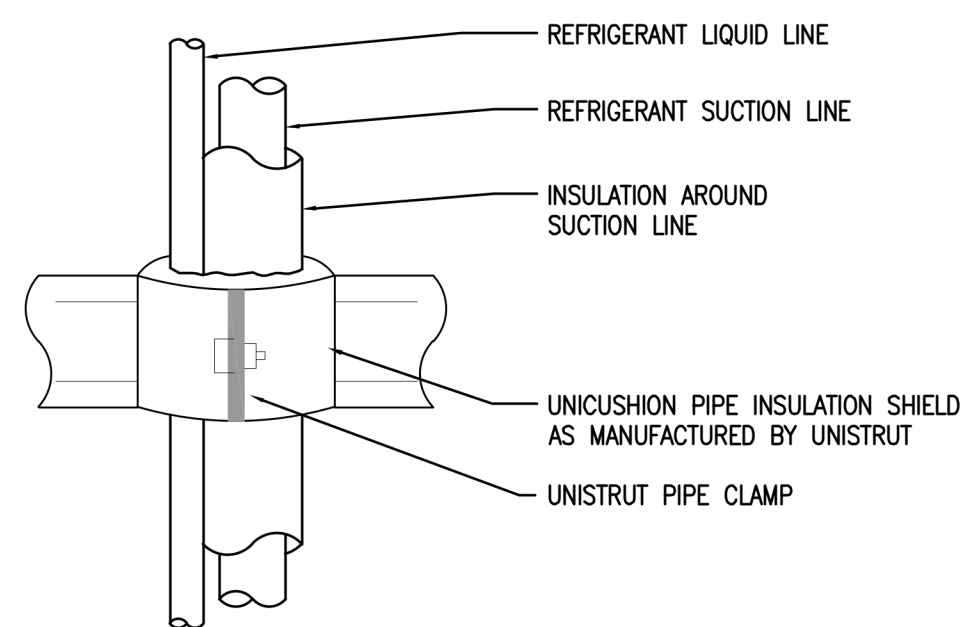
CEILING MOUNTED RETURN/SUPPLY AIR DIFFUSER DETAILS
SCALE: NONE



MECHANICAL UNIT LABELING DETAIL
SCALE: NONE



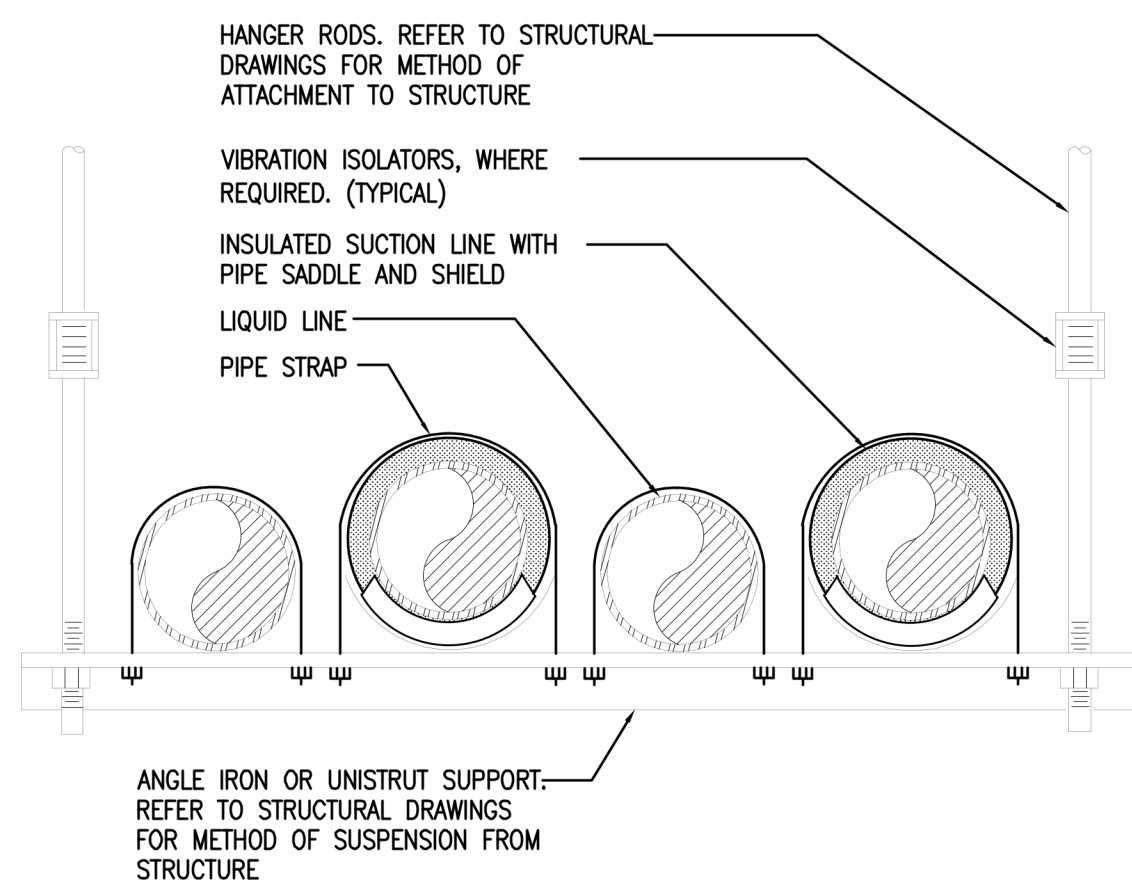
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SCALE: NONE	



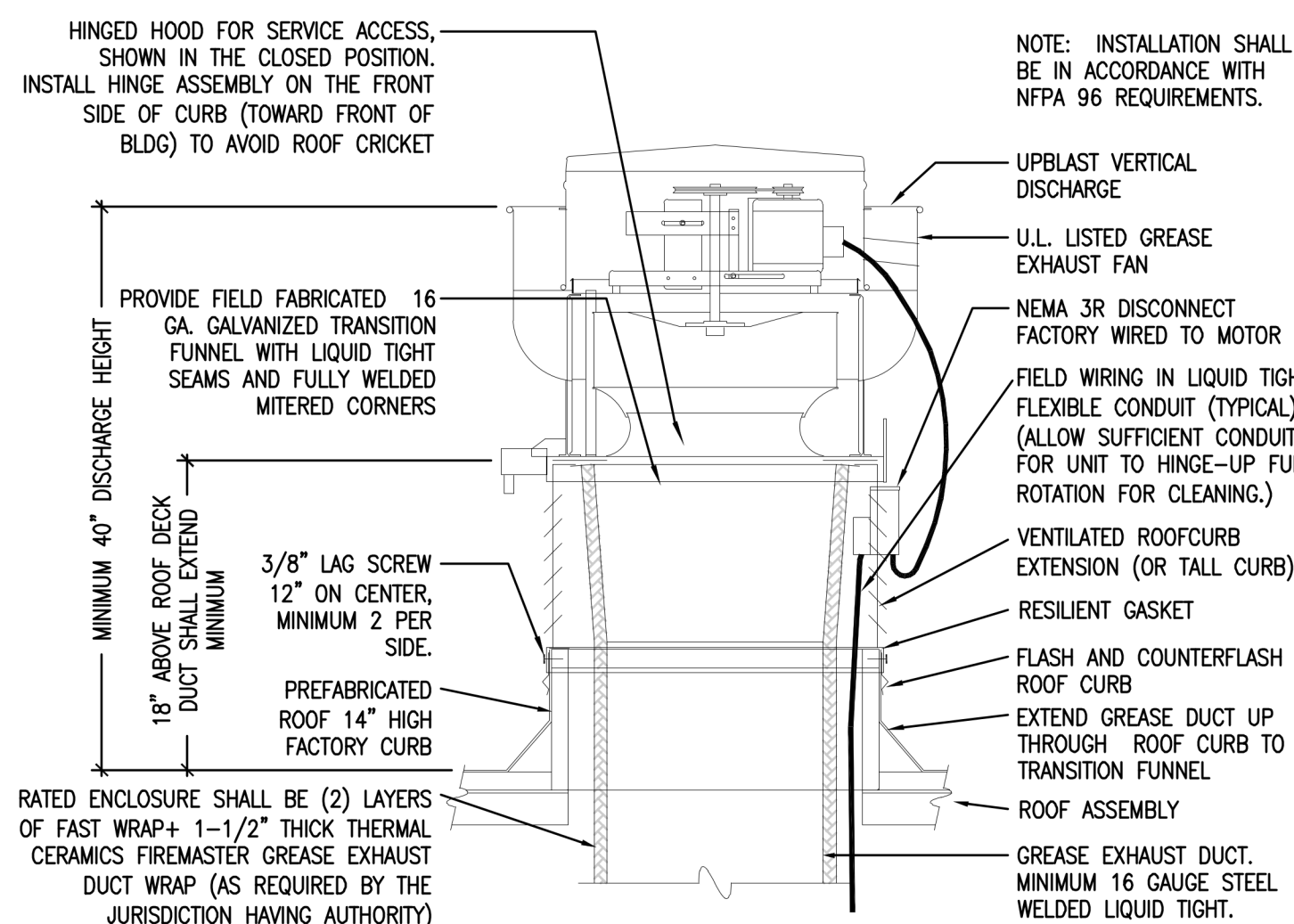
NOTES:

- 1.) LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
- 2.) LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
- 3.) USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.
- 4.) REFER TO MANUFACTURER'S GUIDELINES FOR THE COMPLETE INSTALLATION.

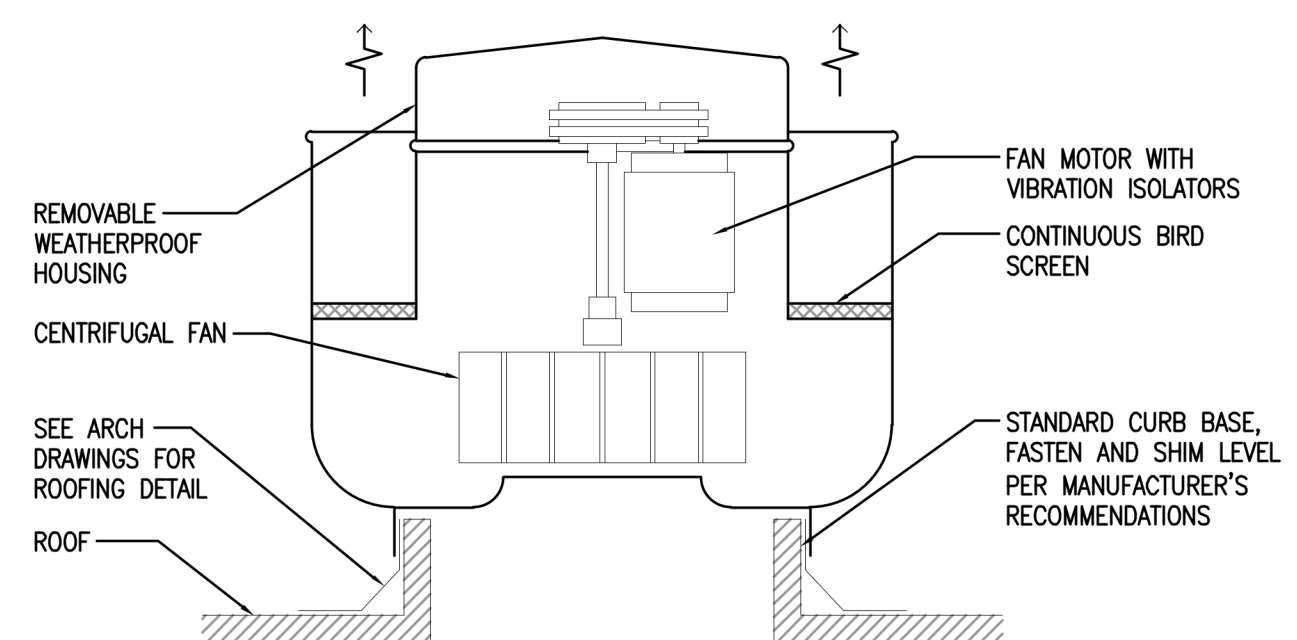
VERTICAL REFRIGERANT PIPE SUPPORT DETAIL
SCALE: NONE



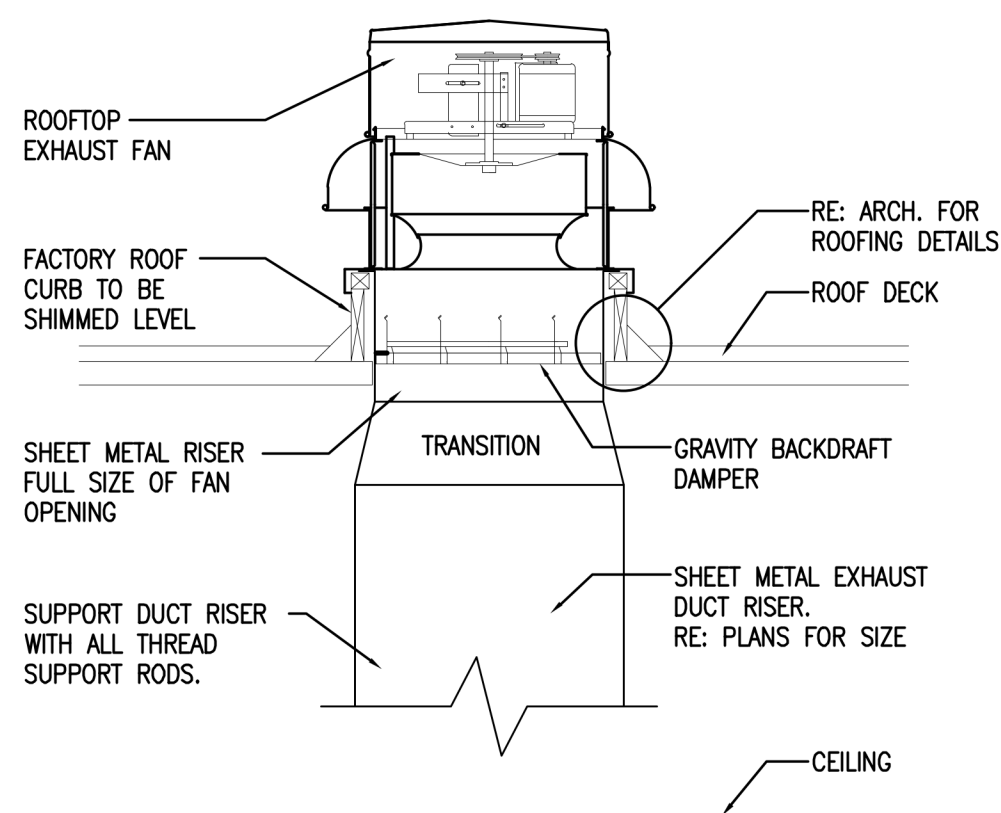
HORIZONTAL REFRIGERANT PIPE SUPPORT DETAIL
SCALE: NONE



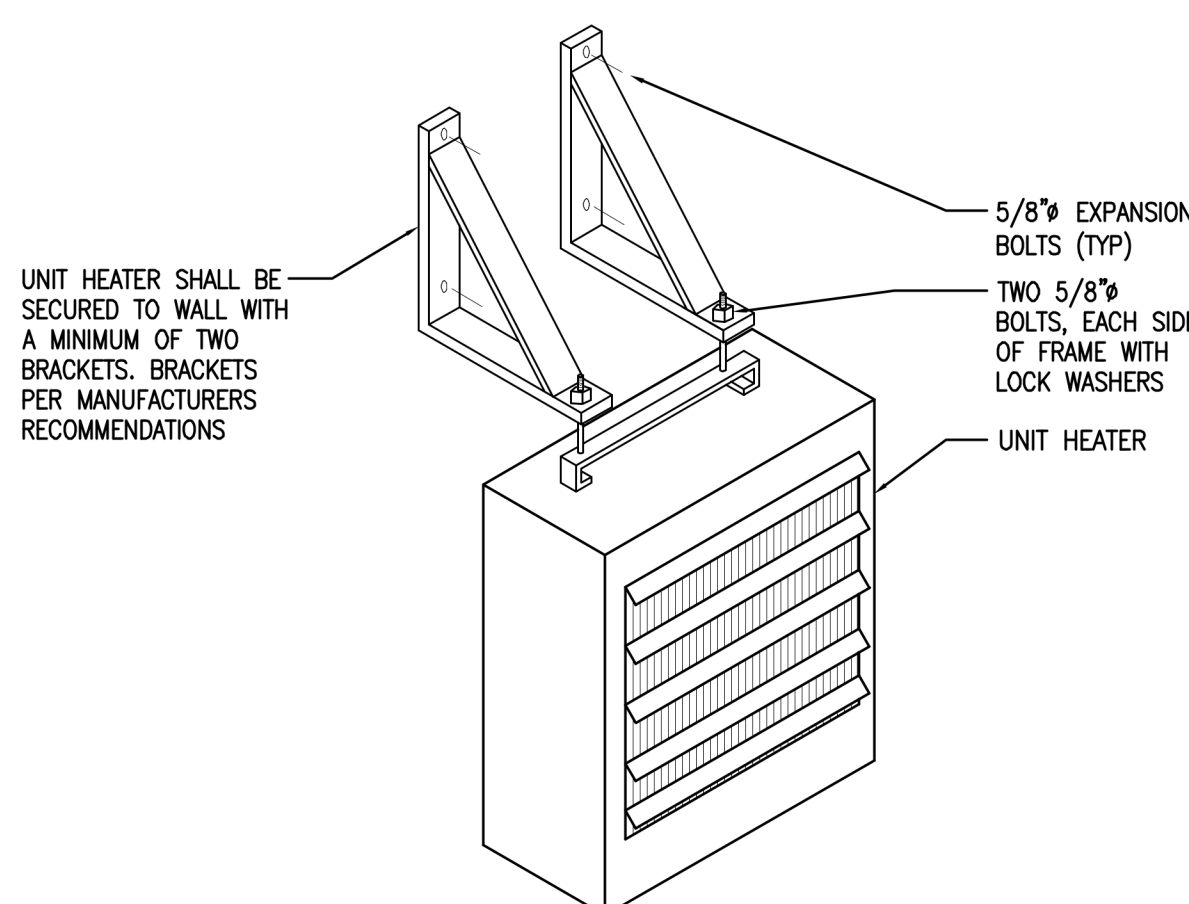
KITCHEN UPBLAST GREASE EXHAUST FAN DETAIL
SCALE: NONE



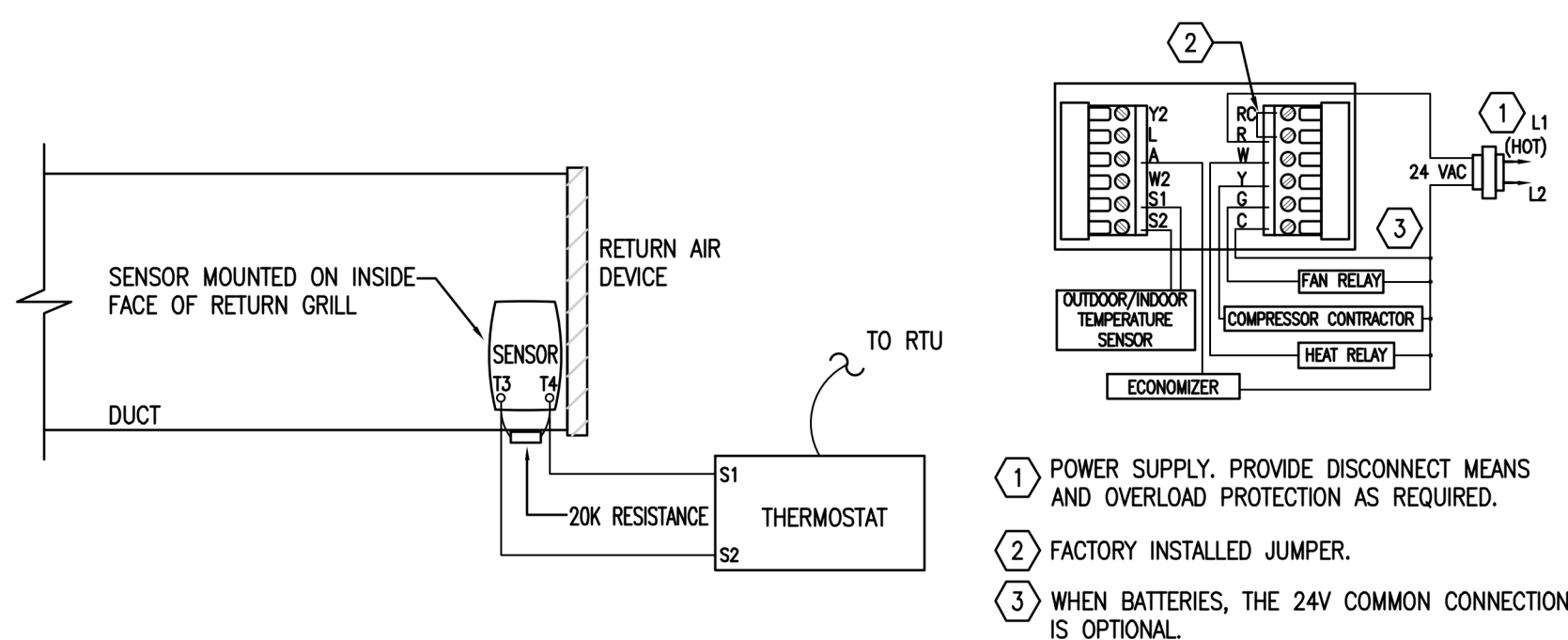
DISHMACHINE UPBLAST EXHAUST FAN DETAIL



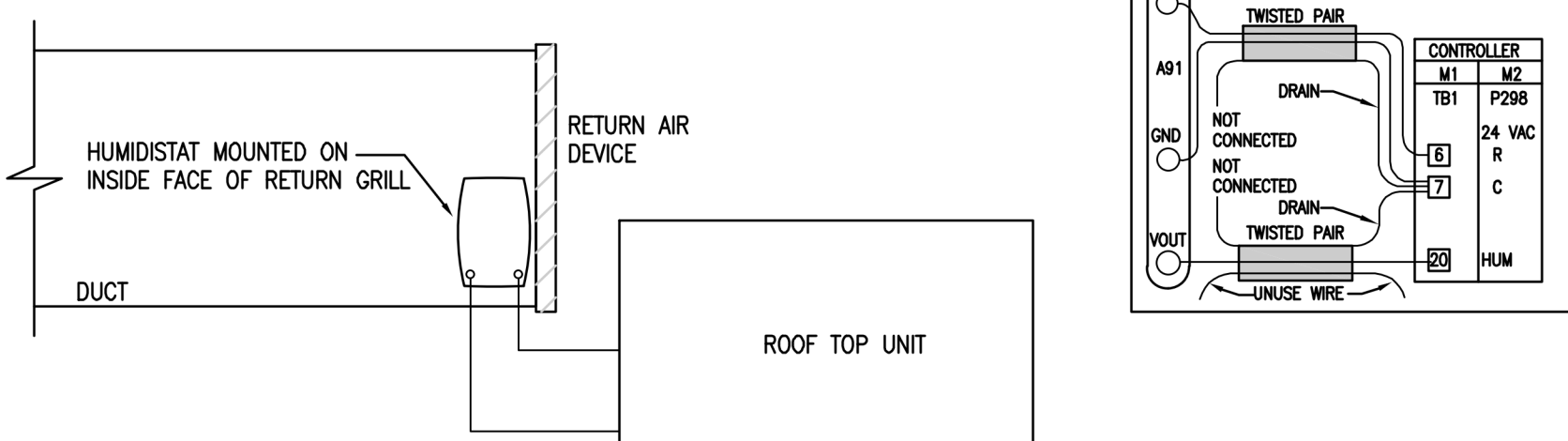
RESTROOM DOWNBLAST EXHAUST FAN DETAIL
SCALE: NONE



UNIT HEATER DETAIL SCALE: NONE	12
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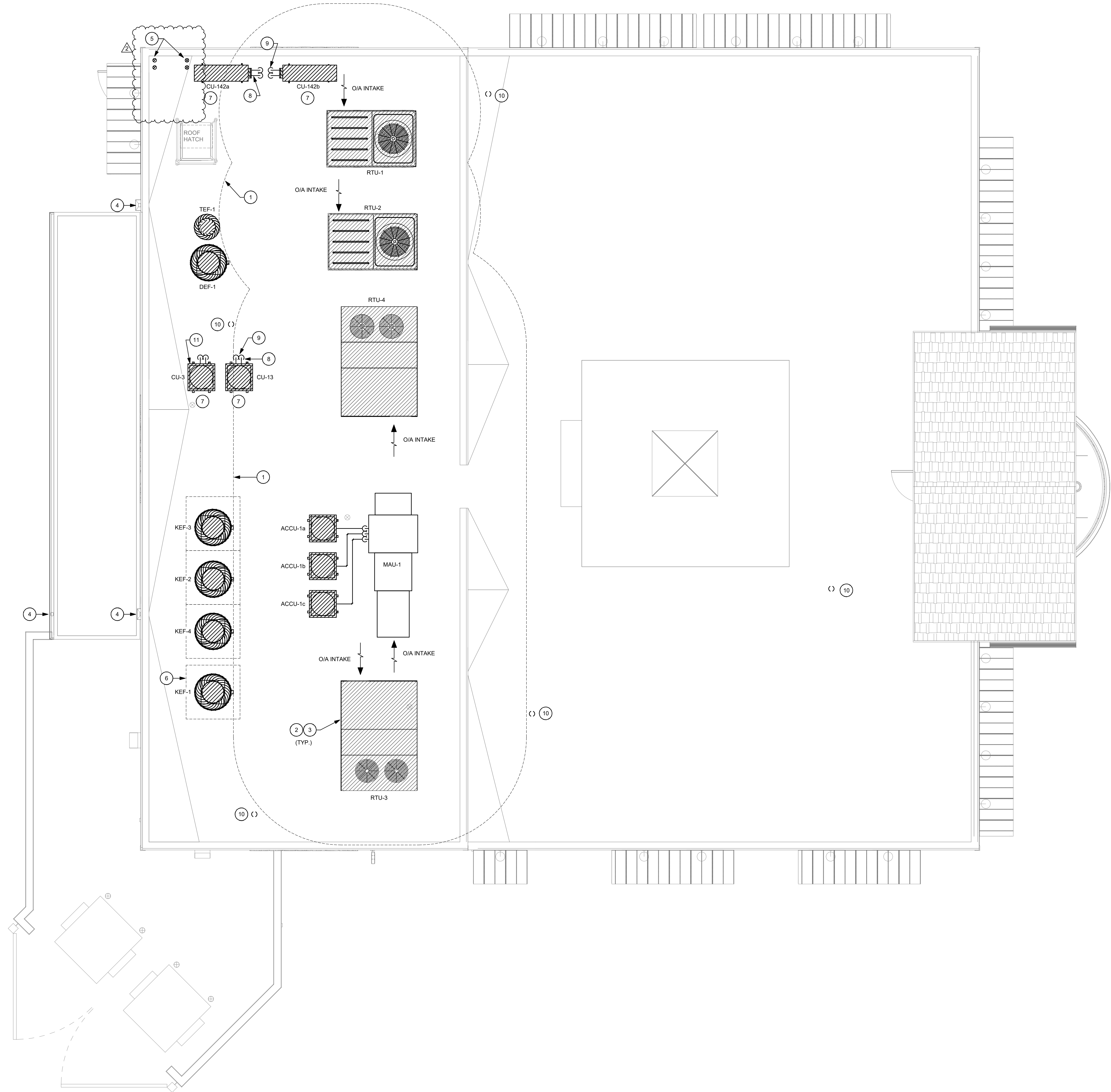
SINGLE TEMPERATURE SENSOR WIRING DIAGRAM
SCALE: NONE



HUMIDISTAT WIRING DIAGRAM SCALE: NONE	1
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NOT USED
SCALE: NONE

NOT USED SCALE: NONE	16
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GENERAL NOTES - HVAC ROOF PLAN

- A ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST OR PLUMBING VENT.
- B PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
- C ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL WORK SHOWN ON THE MECHANICAL DRAWINGS.
- D ALL ROOFTOP EQUIPMENT (RTU'S, FANS, CONDENSERS, ETC) SHALL BE SECURELY FASTENED TO BUILDING STRUCTURE WITH ENGINEERED STRUCTURAL TIE-DOWNS FOR HURRICANE PROTECTION AND DESIGNED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND LOCAL JURISDICTIONAL REQUIREMENTS.

KEYNOTES - M2.1

- 1 MAINTAIN A MINIMUM 10'-0" HORIZONTAL SEPARATION BETWEEN ANY EXHAUST AND OUTDOOR AIR INTAKE.
- 2 REFER TO PLUMBING PLANS FOR CONDENSATE DRAIN TRAP AND ROUTING OF PIPING FROM THE HVAC EQUIPMENT.
- 3 REFER TO PLUMBING PLANS FOR NATURAL GAS CONNECTION AND ROUTING OF PIPING TO THE HVAC EQUIPMENT.
- 4 ROOF DRAINAGE TO BE PROVIDED VIA GUTTERS AND DOWNSPOUTS. REFER TO ARCHITECTURE DRAWINGS FOR DETAILS.
- 5 COMBUSTION AIR INTAKE AND EXHAUST FLUE VENT FOR GAS FIRED WATER HEATERS, FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- 6 MOUNTED GREASE GUARDS SHALL BE FURNISHED BY THE OWNER, AND INSTALLED BY THE MECHANICAL CONTRACTOR AS PART OF THE COMPLETE FAN ASSEMBLY.
- 7 ROOF MOUNTED AIR COOLED REFRIGERATION CONDENSING UNITS SERVING KITCHEN EQUIPMENT BELOW. FIELD COORDINATE FINAL PLACEMENT.
- 8 ROUTE PIPING FROM REFRIGERATED EQUIPMENT IN THE KITCHEN UP THRU THE ROOF AND CONNECT TO ROOF MOUNTED REMOTE CONDENSING UNITS.
- 9 GENERAL CONTRACTOR SHALL PROVIDE WEATHER TIGHT PREFABRICATED ROOF JACK FOR PIPING AND CONDUIT PENETRATION THROUGH THE ROOF. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION PERTAINING TO PROPOSED MANUFACTURER AND ROOF JACK SIZE.
- 10 PLUMBING SANITARY VENT THRU ROOF. REFER TO PLUMBING DRAWINGS FOR SIZE AND ADDITIONAL INFORMATION.
- 11 SINGLE CONDENSING UNIT CU-3 TO SERVE BOTH EVAPORATOR COILS FCU-3a & FCU-3b IN COOLER-120. REFER TO FOOD SERVICE PLANS FOR DETAILS.

MEP ENGINEER:

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PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1 CITY COMMENTS 04.04.2023
2 COORDINATION COMMENTS 04.05.2023

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

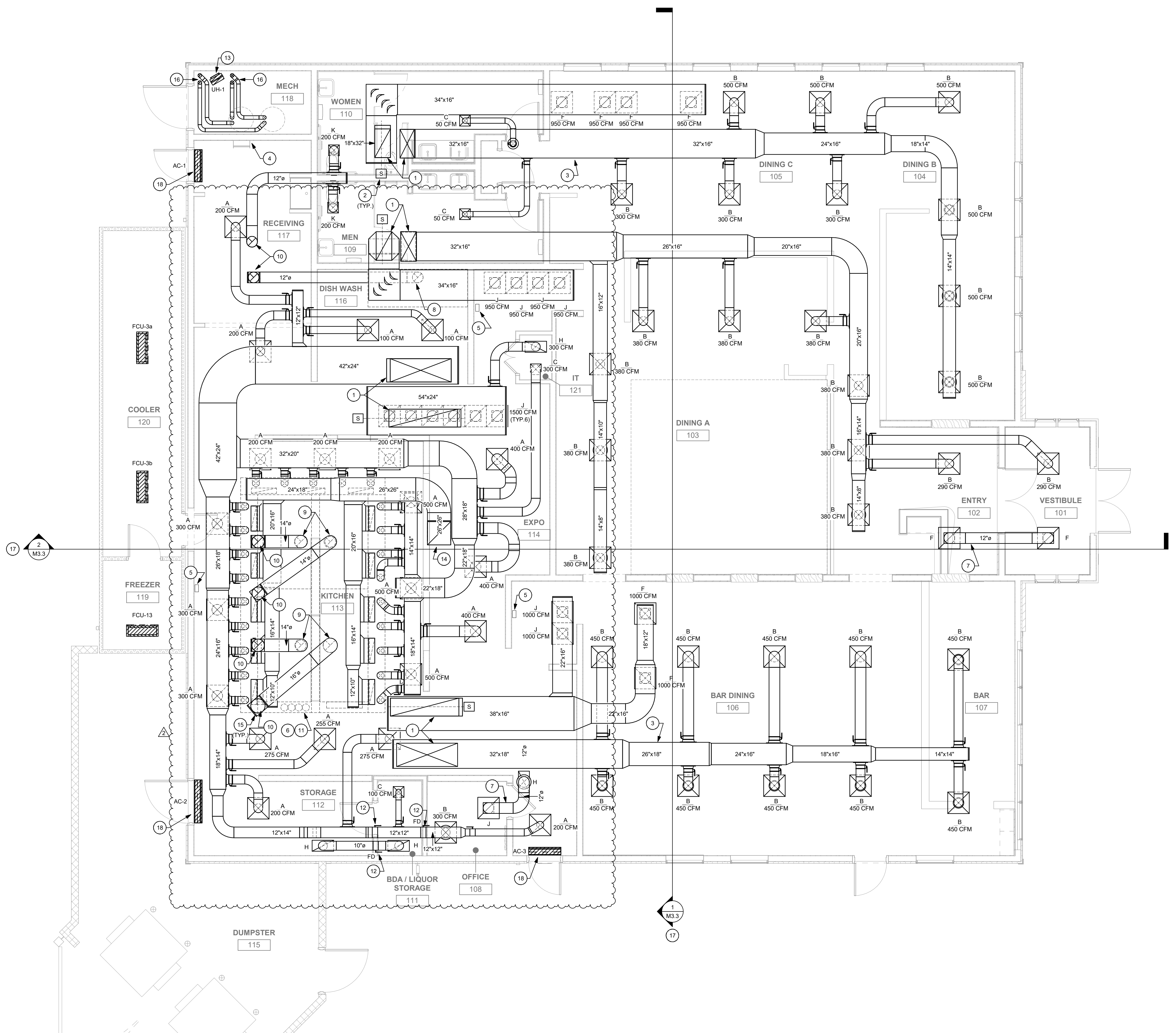
BLOOMINGDALE AVE &
GORNTOLAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:

HVAC ROOF PLAN

M2.1



GENERAL NOTES - HVAC FLOOR PLAN

- REFER TO SHEET M3.2, MECHANICAL CONTROLS PLAN FOR THE PROPOSED LOCATIONS AND WIRING SCHEME FOR THE HVAC CONTROLS PACKAGE.
- PROVIDE SLOT DIFFUSERS WITH YOUNG REGULATOR BOWDEN 270-301EZ CABLE CONTROL SYSTEM WITH 6" ROUND DAMPER ASSEMBLY. THE ACCESS COVER PLATE SHALL BE MOUNTED ON THE SIDE OF THE FURDOWN SOFFIT, AND PAINTED TO MATCH THE ADJACENT SURFACE.
- DIFFUSERS IN ALL GUEST AREAS SHALL NOT HAVE SCREWS IN THE FACE OF THE DEVICE UNLESS NOTED OTHERWISE.
- AIR DEVICES IN HARD LID CEILING SHALL BE INSTALLED COMPLETE WITH OPPOSED BLADE DAMPER FOR MANUAL VOLUME ADJUSTMENT.
- RETURN GRILLE AIR QUANTITY LISTED IS FOR PARTIAL RETURN DURING STANDARD OPERATING HOURS. RETURN DUCTS ARE SIZED FOR FULL RETURN DURING NIGHT SETBACK CONDITIONS. REFER TO SHEET AC1.1 FOR AIR BALANCE REPORT ON DESIGN AIRFLOW RATES.
- FURNISH BALANCE DAMPER AT ALL DUCT TAP-OFFS TO AIR DEVICES.
- COORDINATE INSTALLATION OF ALL AIR DEVICES WITH ARCHITECTURAL RCP AND ELECTRICAL LIGHTING PLAN. REFER TO ARCHITECT FOR FINISH AND COLOR.
- ALL ELBOWS SHALL BE SMOOTH RADIUS (1.5R) WHERE SHOWN AND WHERE SPACE ALLOWS. WHERE MITERED ELBOWS ARE REQUIRED, INSTALL WITH TURNING VANES.
- ALL GREASE EXHAUST DUCTWORK SHALL BE FURNISHED IN ACCORDANCE WITH NFPA 96 STANDARDS. GREASE DUCTWORK SHALL BE CONSTRUCTED OF STAINLESS STEEL MATERIAL, MINIMUM NO. 18 GAGE THICKNESS WITH LIQUID-TIGHT WELDED JOINTS AND 2 LAYERS OF FIREMASTER GREASE EXHAUST DUCT WRAP (FOR 2-HR ENCLOSURE COMPLIANT WITH ASTM E2336 FOR TYPE 1 HOOD APPLICATIONS), SLOPE DUCTWORK BACK TOWARDS HOOD AT 1/4" PER FOOT. PROVIDE CLEAN-OUTS EVERY 20-FT AND AT EACH CHANGE OF DIRECTION. COORDINATE EXACT ROUTING OF DUCTWORK AND CONNECTION POINTS TO EXISTING WITH STRUCTURAL SYSTEM JOIST AND BEAMS AND EXISTING DUCTWORK LAYOUT. REFER TO CAPTIVEARE PLANS FOR SPECIFICATIONS.

KEYNOTES - M3.1

- ROUTE SUPPLY AND RETURN DUCTS DOWN FROM THE RTU CONNECTIONS THROUGH THE ROOF, TRANSITIONED TO SIZES SHOWN. INSTALL COMPLETE WITH FLEXIBLE CONNECTIONS AT EQUIPMENT. PROVIDE 12" INTERNALLY LINED ACOUSTIC INSULATION FOR RETURN DUCT MAIN TO ELIMINATE TRANSMISSION NOISE FROM THE ROOFTOP UNIT.
- HVAC SMOKE DETECTOR CAPABLE OF SHUTTING DOWN THE RESPECTIVE MECHANICAL UNIT UPON ACTIVATION SHALL BE FIELD INSTALLED 10'-0" DOWNSTREAM OF THE UNIT, PRIOR TO ANY DUCT CONNECTIONS. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL. THE ELECTRICAL CONTRACTOR SHALL COORDINATE FOR POWER.
- MAIN DUCT FROM RTU SHALL BE ROUTED ABOVE LOWER CEILING.
- ALL PIPING, DUCTWORK AND CONDUIT SHALL BE HELD CLEAR FROM THE ROOF LAUNDER TO MAXIMIZE SERVICE AND ACCESS AREA.
- MANUAL PULL STATION FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM ACTIVATION AND GAS SUPPLY SHUT-OFF. COORDINATE THE COMPLETE INSTALLATION WITH OTHER TRADES.
- THE UTILITY AND FIRE SUPPRESSION CABINETS ARE TO BE FURNISHED WITH THE HOOD PACKAGE, AND INSTALLED COMPLETE WITH THE HOOD ASSEMBLY.
- PROVIDE TRANSFER AIR DUCT BETWEEN RETURN AIR GRILLES AS SHOWN.
- EXTEND THE 12" DISH EXHAUST DUCT SHALL BE OF THE SAME SIZE AS THE HOOD COLLAR. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF DISH EXHAUST DUCT FROM COMBUSTIBLE MATERIALS TO MAINTAIN THE MINIMUM CLEARANCES REQUIRED PER APPLICABLE CODE(S). DISH EXHAUST DUCT MATERIAL SHALL BE STAINLESS STEEL, MINIMUM 18 GAUGE. SLOPE DUCTWORK BACK TOWARD HOOD.
- PROVIDE WELDED STAINLESS STEEL OR FACTORY PRE-BUILT GREASE EXHAUST DUCT EXTENDED UP FROM THE HOOD COLLAR AND OFFSET HORIZONTALLY BEFORE ROUTING UP THRU ROOF TO THE EXHAUST FAN. HORIZONTAL DUCTWORK SHALL PITCH A MINIMUM 1/4" PER FOOT BACK TOWARDS THE HOOD. GREASE EXHAUST DUCT SHALL BE OF THE SAME SIZE AS THE HOOD COLLAR. FIELD COORDINATE THE REQUIRED TRANSITIONS OF EXHAUST DUCT FROM COMBUSTIBLE MATERIALS TO MAINTAIN THE MINIMUM CLEARANCES REQUIRED PER APPLICABLE CODE(S) AND FIRE WRAP MANUFACTURER'S INSTRUCTIONS. TYPICAL FOR ALL TYPE-I HOOD CONNECTIONS.
- EXTEND EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM STRUCTURE.
- HOODS AND FILTERS SHALL BE MARKED WITH CORRESPONDING COLORED ZIP TIES SO THAT WHEN FILTERS ARE REMOVED FOR CLEANING THE CORRECT FILTERS ARE PLACED BACK IN THE CORRECT LOCATION. FOUR COLORS TO BE PROVIDED. TABS ARE TO BE LOCATED ON ANSUL AND HANDLE OF FILTER. COORDINATE WITH CHEDDARS MANAGEMENT PRIOR TO INSTALL.
- PROVIDE FIRE DAMPER WITH APPROPRIATE RATING FOR DUCTWORK THROUGH RATED ASSEMBLY.
- UNIT HEATER SHALL BE MOUNTED ON FACTORY AVAILABLE WALL BRACKET, AS HIGH AS POSSIBLE FOR CLEARANCE ABOVE THE DOOR JAMB. ANGLE THE DISCHARGE FACE DOWN TOWARDS THE WATER PIPING.
- ROUTE MAKEUP AIR DUCTWORK FULL SIZE FROM THE UNIT CONNECTION THROUGH THE ROOF AND TRANSITION TO SIZE SHOWN. PROVIDE SMACNA TYPE 2 STATIONARY SPLITTER AT BOTTOM OF DUCT DROP. PROVIDE FLEXIBLE CONNECTION AT EQUIPMENT.
- FURNISH CLEANOUTS IN GREASE DUCT AT EACH CHANGE IN DIRECTION AND EVERY 20-FT OF LINEAR LENGTH.
- COMBUSTION AIR INTAKE AND FLUE VENT EXHAUST FOR GAS FIRED WATER HEATERS, FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR. SIZE PER EQUIPMENT MANUFACTURER RECOMMENDATION. COORDINATE ROOF PENETRATION, FLASHING AND COUNTER-FLASHING WITH THE GENERAL CONTRACTOR.
- REFER TO SHEET M3.3, MECHANICAL SECTIONS FOR AND ROUTING ASSOCIATED WITH THE BUILDING SECTIONS.
- MOUNT THE FLY FAN AIR CURTAIN ON THE WALL ABOVE THE DOOR. COORDINATE THE COMPLETE INSTALLATION WITH OTHER TRADES.

AIR DEVICE RUN-OUT SCHEDULE

SUPPLY DUCTWORK		RETURN / EXHAUST DUCTWORK	
AIRFLOW (CFM)	SIZE (Ø)	AIRFLOW (CFM)	SIZE (Ø)
0 - 80	6"	0 - 75	6"
85 - 180	8"	75 - 160	8"
185 - 320	10"	165 - 295	10"
325 - 520	12"	300 - 480	12"
525 - 800	14"	485 - 700	14"
805 - 1100	16"	705 - 1000	16"

- NOTES:
- PROVIDE RUNOUT DUCT SIZE, FLEX DUCT, AND DIFFUSER COLLAR SIZE AS SCHEDULED FOR ALL DUCTED SUPPLY, RETURN, AND EXHAUST AIR DEVICES UNLESS OTHERWISE NOTED ON PLANS.
 - AIR DEVICE NECK SIZE SHALL BE THE SAME AS THE RUN-OUT SIZE.

MEP ENGINEER

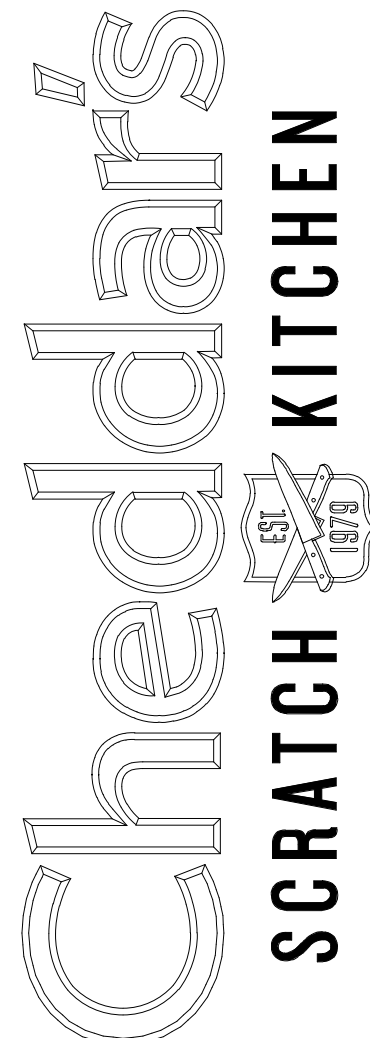
JARRET L. RICE, P.E. (LIC# 82028) PLANO, TEXAS
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PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com



Issue Date:	02.15.2023
REVISION INFORMATION	
1 CITY COMMENTS	04.04.2023
2 COORDINATION COMMENTS	04.05.2023

Restaurant #:

21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

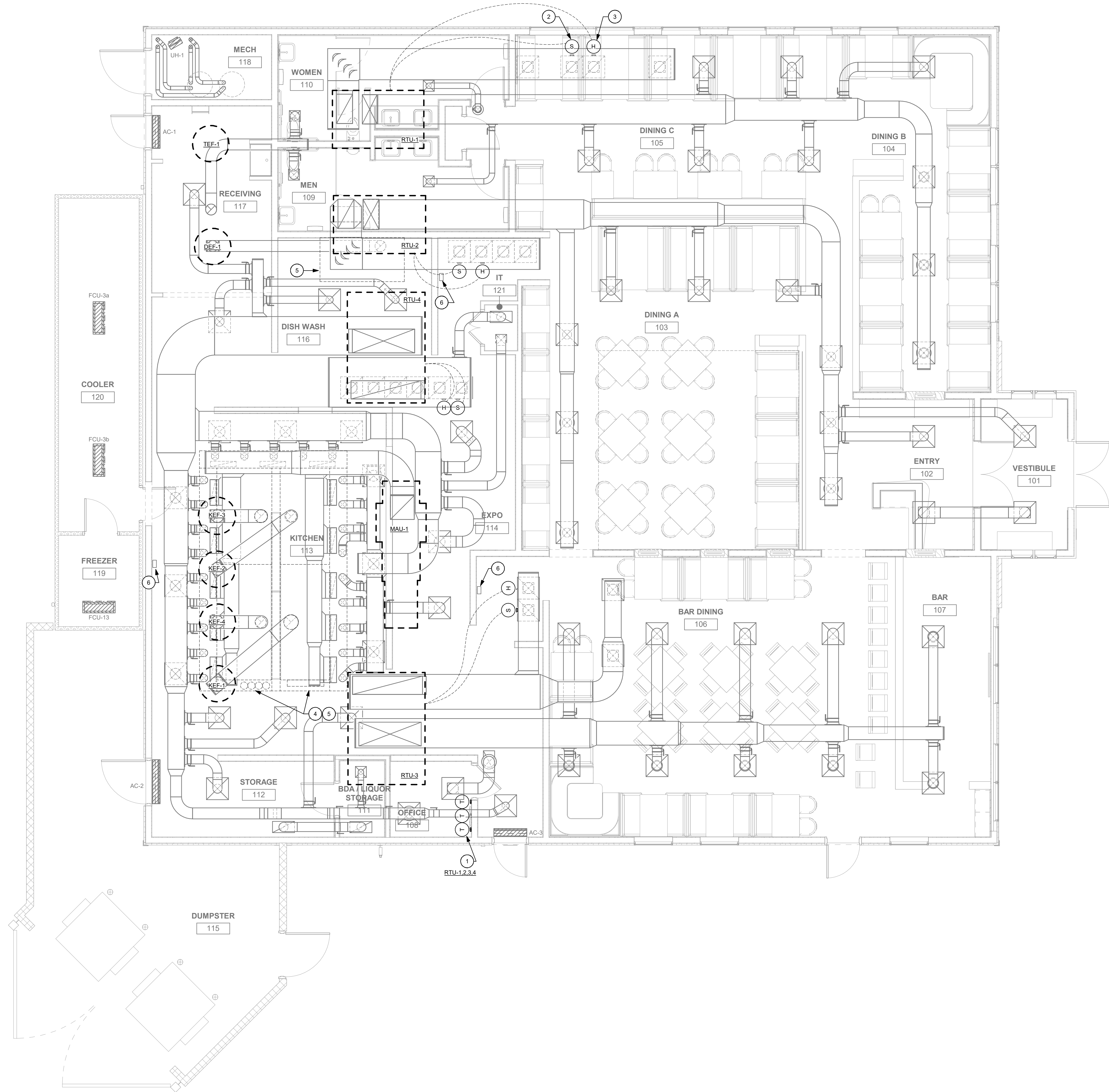
BLOOMINGDALE AVE &
GORNTOL LAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:

HVAC FLOOR PLAN

M3.1



GENERAL NOTES - HVAC CONTROLS PLAN

- 1 COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL THERMOSTATS WITH OWNER AND ARCHITECT.

KEYNOTES - M3.2

- 1 MOUNT SETPOINT THERMOSTATS FOR ALL SYSTEMS ON WALL IN THE MANAGERS OFFICE, WITH REMOTE TEMPERATURE SENSORS LOCATED AS SHOWN ON PLANS. REFER TO THE ELECTRICAL PLANS FOR PROPOSED MOUNTING LOCATIONS.
- 2 HVAC TEMPERATURE SENSOR (LENNOX MODEL 47W36) IS TO BE MOUNTED ON INSIDE FACE OF RETURN AIR GRILL AS SHOWN. REFER TO THE MECHANICAL DETAILS FOR PROPOSED MOUNTING INSTALLATION AND WIRING DIAGRAM.
- 3 HVAC HUMIDITY SENSOR (LENNOX MODEL 17M50) IS TO BE MOUNTED ON INSIDE FACE OF RETURN AIR GRILL AS SHOWN. REFER TO THE MECHANICAL DETAILS FOR PROPOSED MOUNTING INSTALLATION AND WIRING DIAGRAM.
- 4 THE KITCHEN HVAC UNIT RTU-4 AND THE MAKE-UP AIR UNIT MAU-1 SHALL BE INTERLOCKED AT THE EXHAUST HOOD PREWIRE PACKAGE IN THE UTILITY CABINET. UPON ACTIVATION OF THE SUPPRESSION SYSTEM, BOTH THE ROOFTOP UNIT AND MAKEUP AIR UNIT SHALL BE DEENERGIZED. COORDINATE THE CONNECTION TO THE REQUIRED CONTACTOR WITH THE ROOFTOP UNIT MANUFACTURER.
- 5 FIELD COORDINATE THE POWER CONNECTION BETWEEN THE EXHAUST FANS AND THE STARTERS AT THE EXHAUST HOOD PREWIRE PACKAGE IN THE UTILITY CABINET. REFER TO THE CAPTIVEAIRE WIRING SCHEMATIC ON SHEET M5.3 FOR ADDITIONAL INFORMATION.
- 6 LOCATION OF REMOTE MANUAL PULL STATION. REFER TO KITCHEN EQUIPMENT PLANS FOR FIRE PULL DETAIL.
- 7 HVAC TEMPERATURE SENSOR (LENNOX MODEL 47W36) AND HVAC HUMIDITY SENSOR (LENNOX MODEL 17M50) TO BE WALL MOUNTED IN THIS APPROXIMATE LOCATION. CONFIRM EXACT PLACEMENT WITH ARCHITECT AND OWNER. REFER TO THE MECHANICAL DETAILS FOR PROPOSED MOUNTING INSTALLATION AND WIRING DIAGRAM.

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DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

Cheddars
SCRATCH KITCHEN
EST. 1978

Issue Date: 02.15.2023

REVISION INFORMATION

- 1 CITY COMMENTS 04.04.2023
- 2 COORDINATION COMMENTS 04.05.2023

Restaurant #: 21K0037

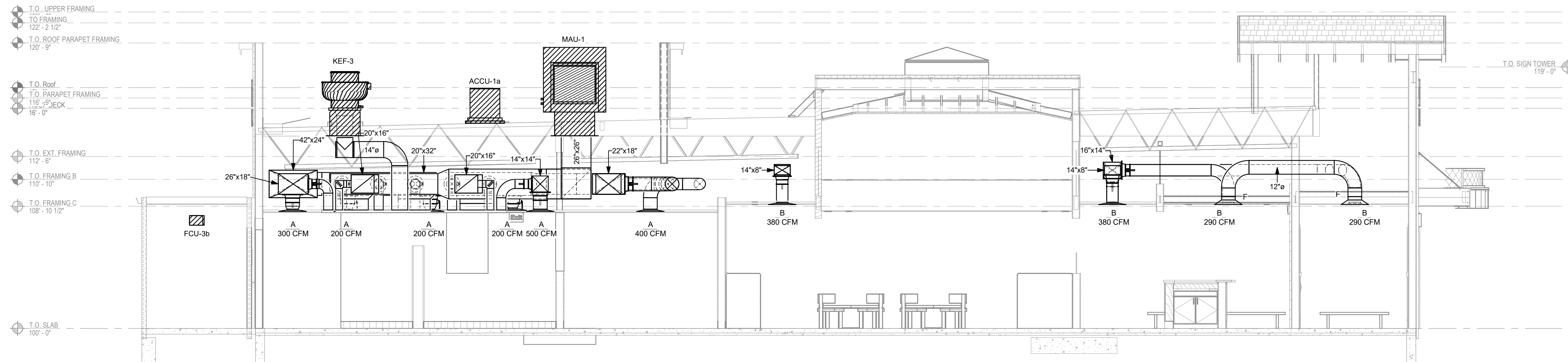
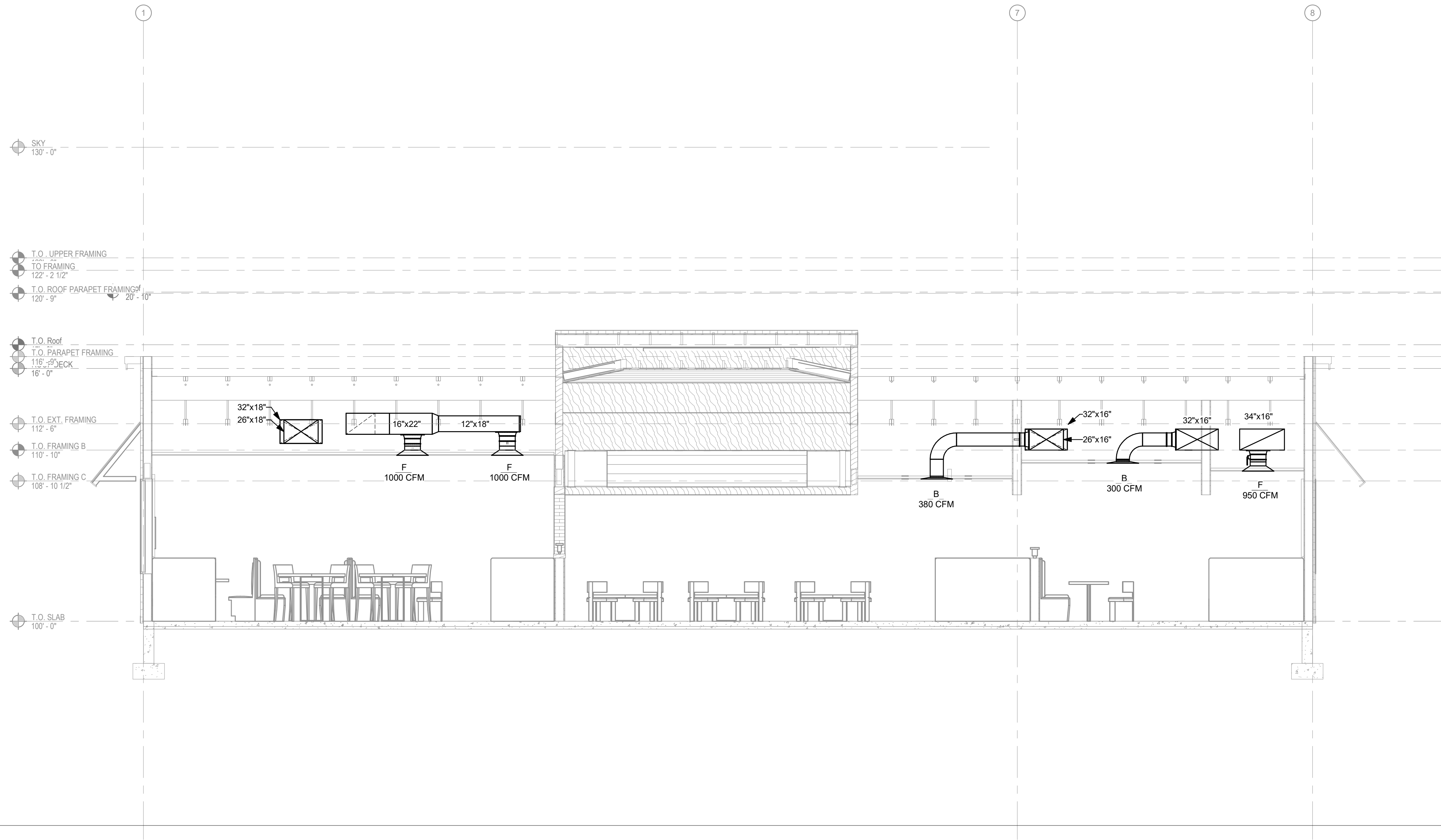
CHEDDARS
SCRATCH KITCHEN
PROTO 18

BLOOMINGDALE AVE &
GORNTO LAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
HVAC CONTROLS
PLAN

M3.2



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ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

Cheddar's
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

1	CITY COMMENTS	04.04.2023
2	COORDINATION COMMENTS	04.05.2023

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

BLOOMINGDALE AVE &
GORNTOL LAKE RD
RIVERVIEW, FL 33578




RIVERVIEW, FL

Drawing:
HVAC SECTIONS

M3.3

[illegible]

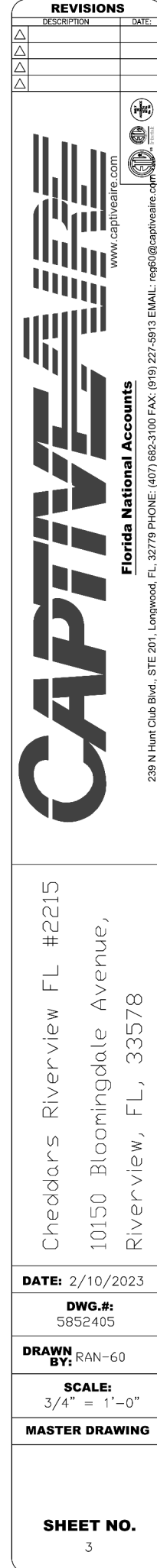
CAPTIVEAIRE HOODS ARE ETL SANITATION LISTED
AND BUILT IN COMPLIANCE WITH NSF/ANSI STANDARD 2,
AND TO UL 710 & UL710 STANDARDS.

Intertek NFPA

E.T.L. LISTED 102900319PRT-001

<p>HVAC DISTRIBUTION NOTE</p> <p>HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.</p>
--



DATE

2/10/2023

REVIEWS

www.captivetype.com

239-987-0130

239-987-0131

FLORIDA National Accounts

3722 FINE CL, SUITE 200

TAMPA, FL 33609

239-987-0130

239-987-0131

Chedders Riverview FL 42215

10150 Bloomingdale Avenue,

Riverview, FL 33578

DATE: 2/10/2023

DWG: 58254-05

DRAWN BY: BRAN-60

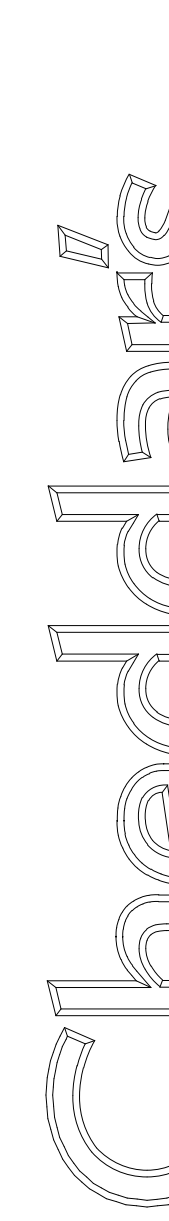
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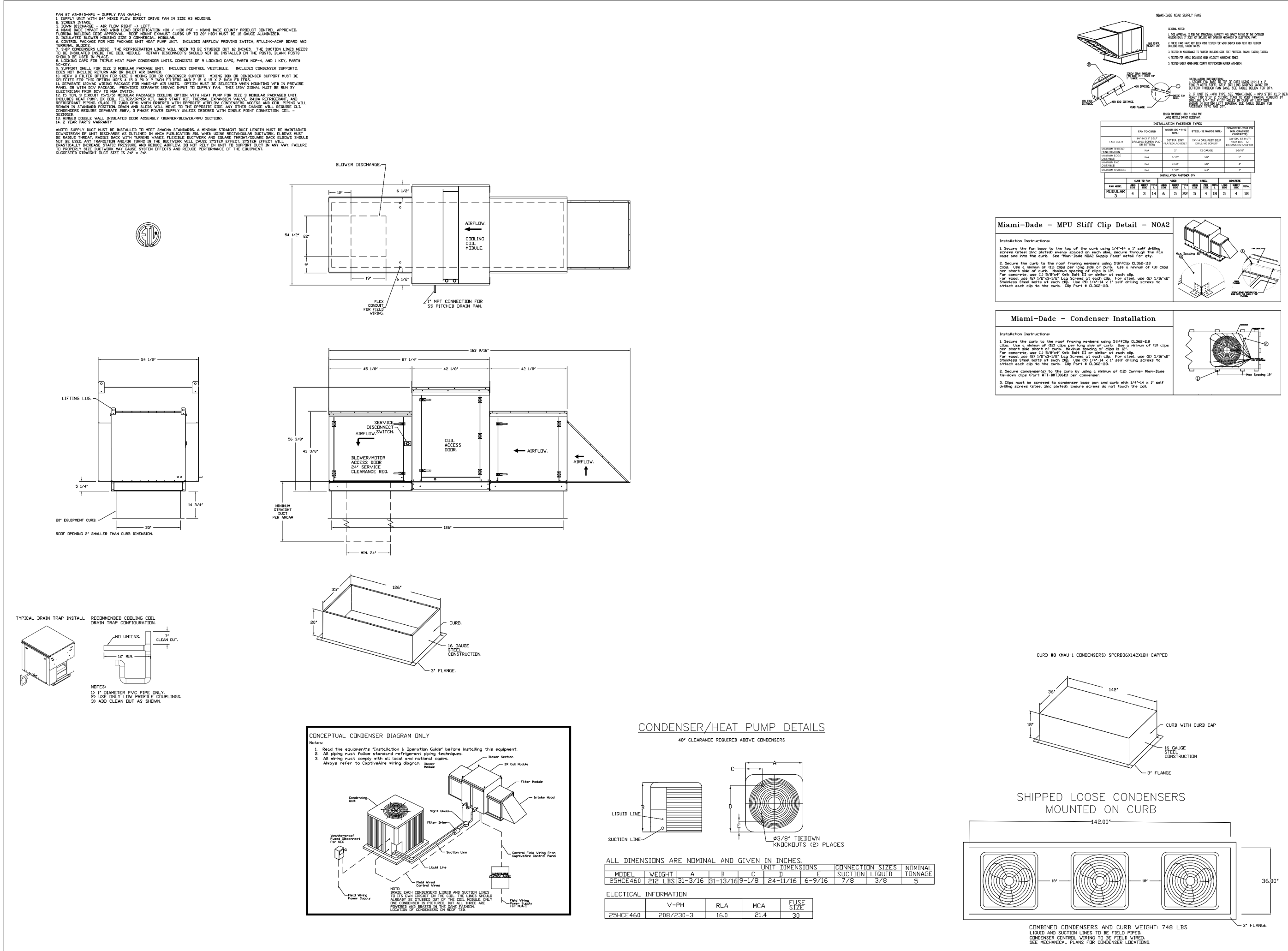
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SHEET NO.

3



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<div>Issue Date:</div> <div>02.15.2023</div>																						
<div>REVISION INFORMATION</div> <table><tr><td>1</td><td>CITY COMMENTS</td><td>04.04.2023</td></tr><tr><td>2</td><td>COORDINATION COMMENTS</td><td>04.05.2023</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>		1	CITY COMMENTS	04.04.2023	2	COORDINATION COMMENTS	04.05.2023															
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<div>RIVERVIEW, FL</div>																						
<div>Drawing:</div>	<div>KITCHEN HOOD INFORMATION</div>																					
<div>M4.1</div>																						



REVISIONS

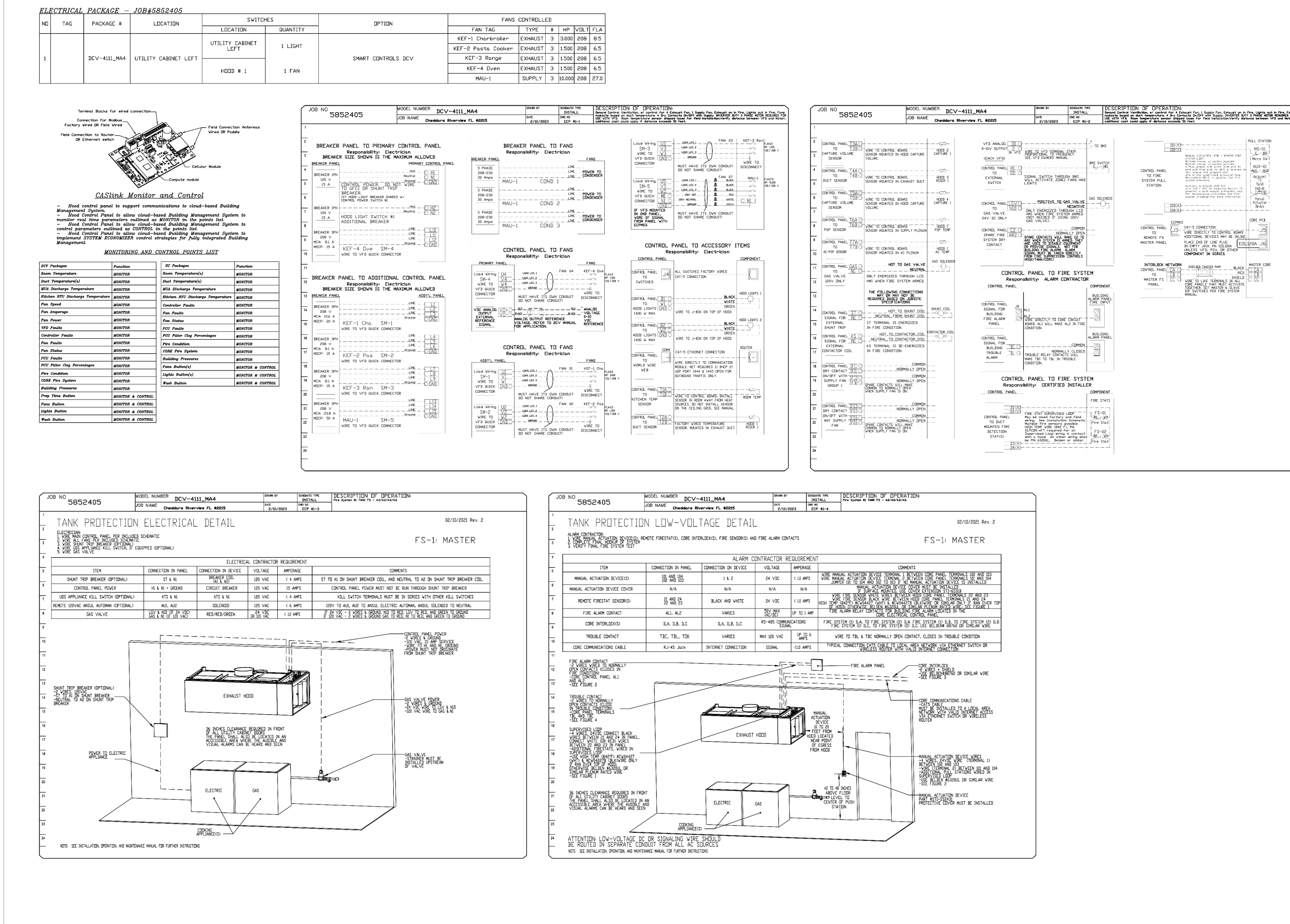
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CAPTIVE FIRE
Florida National Accounts

Cheddars Riverview FL #2215
10150 Bloomingdale Avenue,
Riverview, FL 33578

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DWG. #: 5852-405
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SCALE: 1/2" = 1'-0"
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SHEET NO.
11



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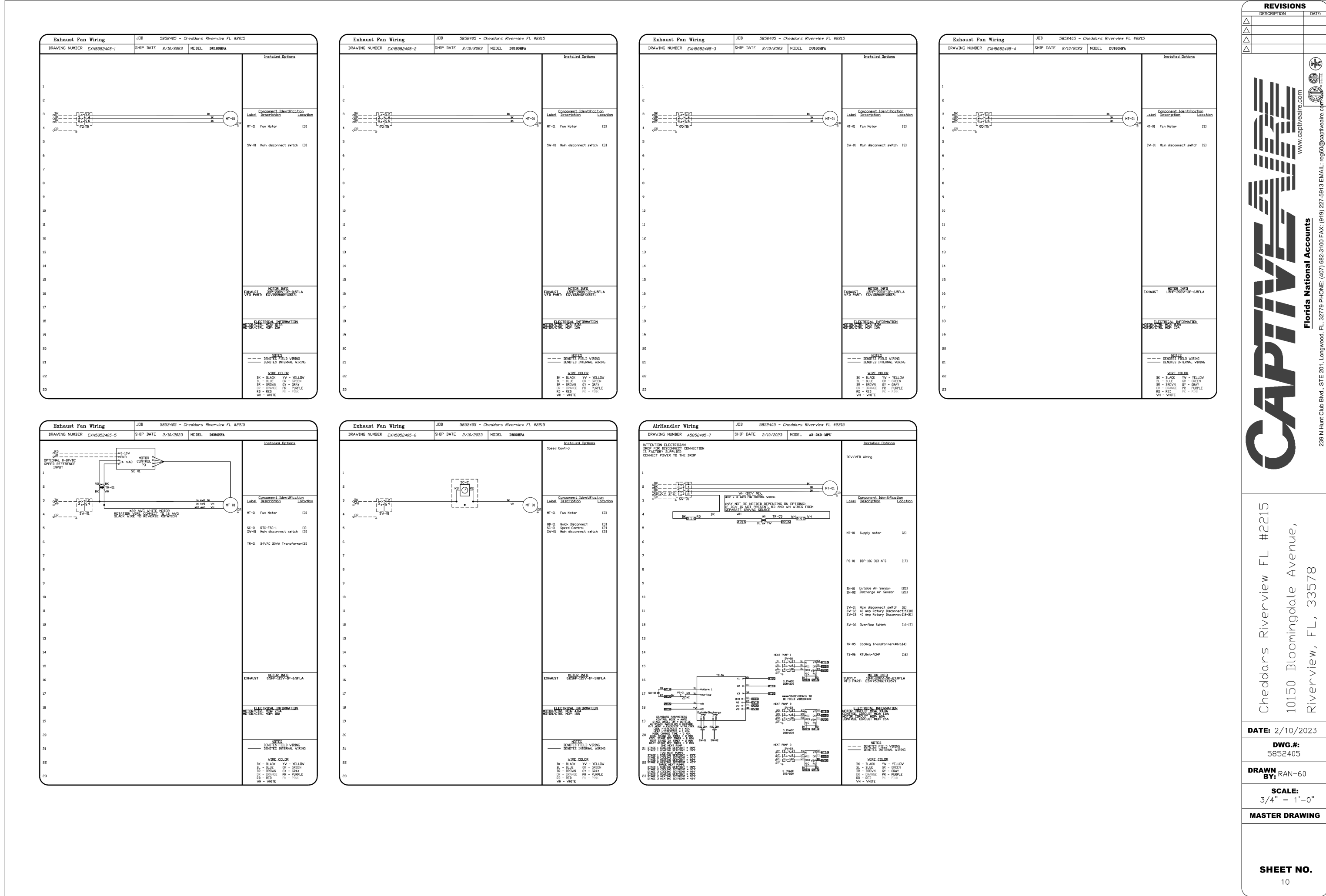
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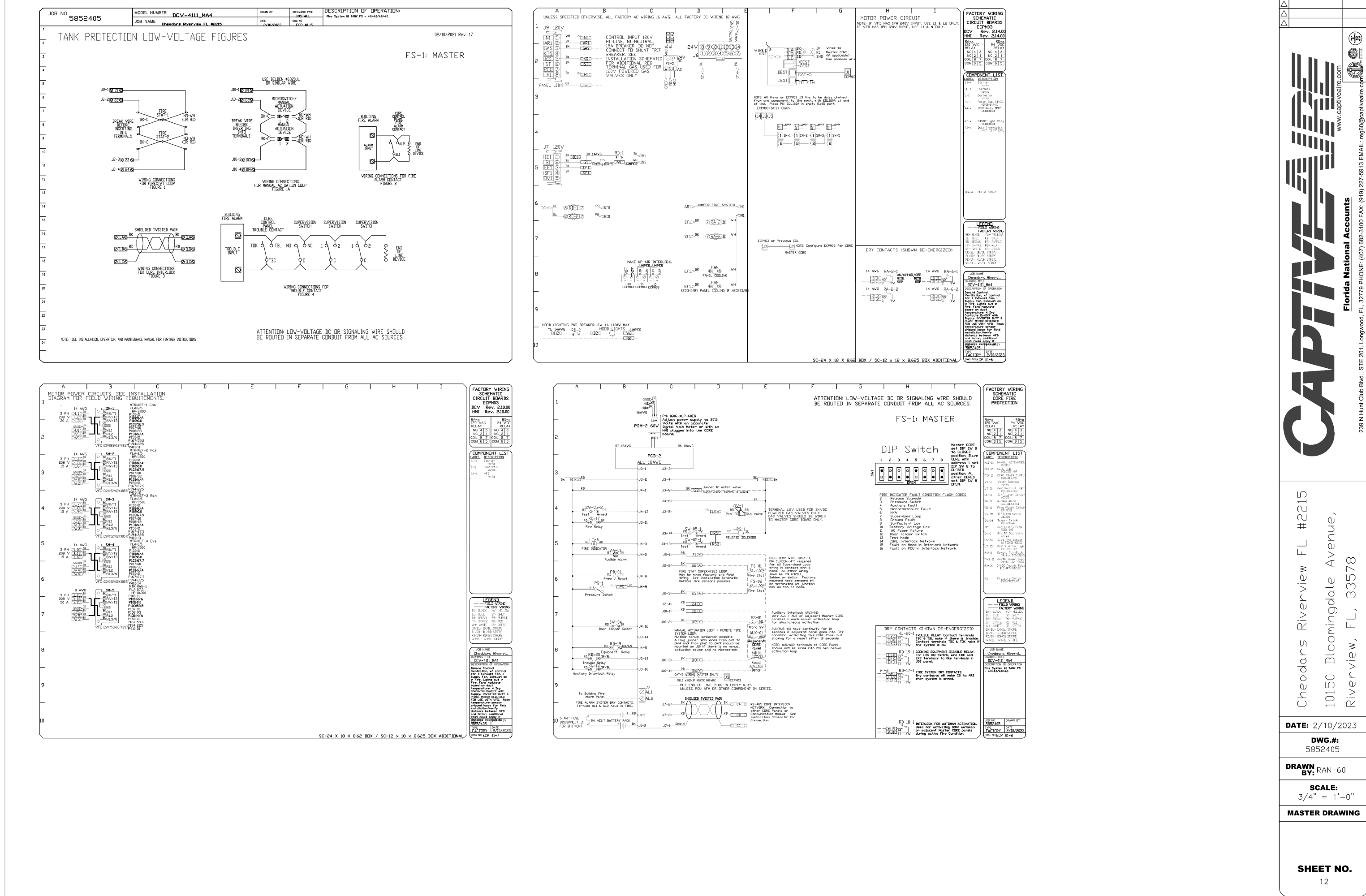
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12

FOR REFERENCE ONLY

THE INFORMATION PRESENTED ON THIS SHEET WAS PRODUCED BY THE EXHAUST HOOD MANUFACTURER AS PART OF THE OWNER FURNISHED, CONTRACTOR INSTALLED, FAN AND HOOD PACKAGE. IT IS INCLUDED FOR REFERENCE & COORDINATION ONLY.

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1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

Cheddars
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

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2	COORDINATION COMMENTS	04.05.2023

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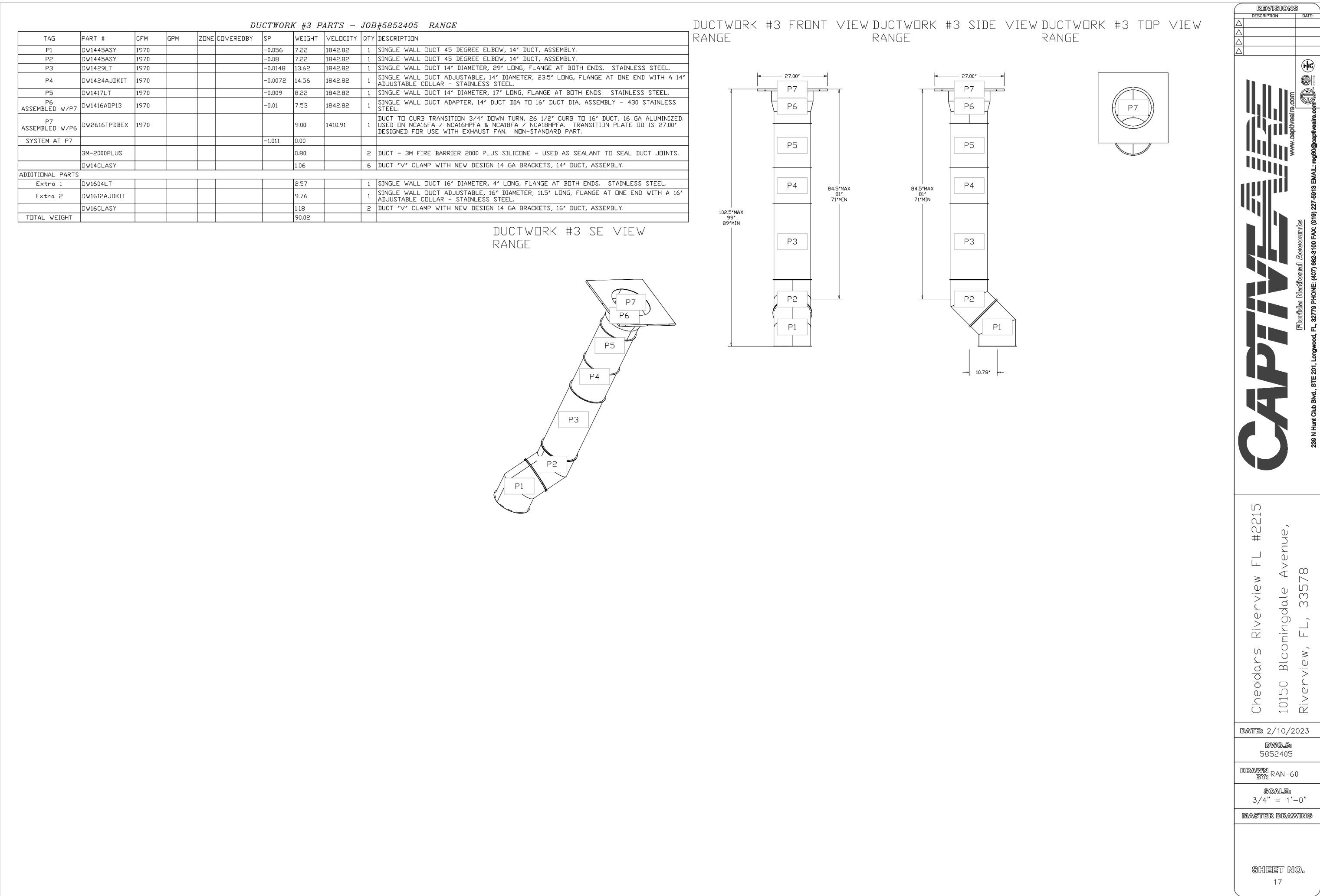
CHEDDARS
SCRATCH KITCHEN
PROTO 18

BLOOMINGDALE AVE &
GORNTO LAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
KITCHEN HOOD
INFORMATION

M4.3



PLUMBING EQUIPMENT SCHEDULE							
MARK	FIXTURE	ROUGH-IN SIZE				DESCRIPTION / REMARKS	
		S / W	V	CW	HW		
WH-1 & WH-2	TANK TYPE WATER HEATER	-	-	1-1/2"	1-1/2"	AO SMITH, #BTH-199, LOW NOX NATURAL GAS FIRED TANK TYPE UNIT COMPLETE WITH T&P VALVE, 100 GAL. CAPACITY, 199,000 BTU/H INPUT, 97% EFFICIENCY, EACH WITH A 261 GPM RECOVERY AT A 100°F RISE. PROVIDE HOT AND COLD WATER HEAT TRAP FITTINGS/ RISERS.	
ET-1	EXPANSION TANK	-	-	3/4"	-	ARMTROL #ST-25V, WITH STEEL BODY AND BUTYL RUBBER DIAPHRAGM FOR 10 GALLONS CAPACITY 10.3 GALLONS ACCEPTANCE, 30 PSI FACTORY PRE-CHARGED.	
RCP-1	RECIRCULATION PUMP	-	-	3/4"	3/4"	GRUNDFOS #UPS26-99SF INLINE HOT WATER OPEN SYSTEM RECIRCULATING PUMP, CAPABLE OF 4.5 GPM (140°F) @ 6' HEAD, 0.16 HP, 115V/1PH, INTEGRAL ATTACHED TIMER AND ADJUSTAT FOR OPERATION CONTROLS, AND ATTACHED POWER CORD.	
TP-1	TRAP PRIMER	-	-	1/2"	-	PPP PR-500 MACHINED OF CORROSION RESISTANT BRASS-CONTAINING NO SPRINGS OR DIAPHRAGMS, "O" RING SEALS TESTED FOR RELIABILITY AT A TEMPERATURE RANGE OF -40°F TO 450°F. INSTALL A MINIMUM 12" ABOVE THE TRAPS TO INSURE PROPER FLOW. INLET OPENING 1/2" MALE NPT, OUTLET 1/2" FEMAL NPT. PRIMER CAPABLE OF SERVING A MAXIMUM OF 4 TRAPS WITH DISTRIBUTION HEADER.	
WHA-1	WATER HAMMER ARRESTOR	-	-	LINE SIZED	-	PPF, INC. SERIES SC, FULLY MECHANICAL WATER HAMMER ARRESTER SIZED AND LOCATED PER THE MANUFACTURER SPECIFICATIONS.	
MXV-1	MIXING VALVE	-	-	1/2"	1/2"	WATTS REGULATOR #LFMMV UNDER SINK THERMOSTATIC MIXING VALVE, WITH BRASS BODY AND INTEGRAL MOUNTING HOLES, TAMPER RESISTANT ENCLOSURE.	
MXV-2	MIXING VALVE	-	-	1/2"	1/2"	WATTS REGULATOR #L1170-M2 THERMOSTATIC MIXING VALVE, WITH BRASS BODY AND INTEGRAL MOUNTING HOLES, TAMPER RESISTANT ENCLOSURE.	
RPZ-1	REDUCED PRESSURE ZONE ASSEMBLY	-	-	1/2"	-	WATTS REGULATOR S5009 REDUCED PRESSURE ZONE ASSEMBLY WATER SUPPLY TO CARBONATOR(S) SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER AND SHALL BE RATED FOR 150 PSI, THE BODY & ADAPTERS ARE OF STAINLESS STEEL. CONSTRUCTION, ALL RUBBER COMPONENTS COMPLY WITH FDA FOOD ADDITIVE REGULATIONS, THE MODEL IS SUBJECT TO LOCAL HEALTH DEPARTMENT APPROVAL. WATTS SB-2.	
BFP-1	BACKFLOW PREVENTER	-	-	LINE SIZED	-	WATTS REGULATOR 007 DOUBLE CHECK VALVE ASSEMBLY, WATER SUPPLY TO ROOFTOP UNIT MOUNTED HOSE BIBB(S) SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTER AND SHALL BE RATED FOR 150 PSI, TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS.	
BFP-2	BACKFLOW PREVENTER	-	-	LINE SIZED	-	WATTS REGULATOR SD-3 DUAL CHECK WITH ATMOSPHERIC PORT, WATER SUPPLY TO BEVERAGE FIXTURE APPLIANCES, ICE MAKERS, ETC. SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTER AND SHALL BE RATED FOR CONTINUOUS OR INTERMITTENT PRESSURE, STAINLESS STEEL BODY CONSTRUCTION AND ALL RUBBER INTERNAL COMPONENTS.	
BFP-3	BACKFLOW PREVENTER	-	-	LINE SIZED	-	WATTS REGULATOR 007 DOUBLE CHECK VALVE ASSEMBLY, DOMESTIC WATER SERVICE AND FIRE WATER SERVICE TO THE BUILDING SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTER AND SHALL BE RATED FOR 150 PSI, TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS, VERIFY APPROVAL WITH UTILITY AND JURISDICTION PRIOR TO INSTALLATION.	
VB-1	VACUUM BREAKER	-	-	-	LINE SIZED	WATTS REGULATOR 288-A ATMOSPHERIC TYPE ANTI-SIPHON VACUUM BREAKER WITH INTERNAL LIGHT WEIGHT DISC FLOAT WITH SILICONE DISC FOR TIGHT SEATING.	
WS-1 RO-1	WATER SOFTENER R.O. SYSTEM	-	-	2"	-	WATER SOFTENER / RO SYSTEM TO BE FURNISHED BY OWNER AND INSTALLED BY THE PLUMBING CONTRACTOR.	
GL-1	GREASE INTERCEPTOR	6"	3"	-	-	SCHIER #GB-1000 HYDROMECHANICAL POLYETHYLENE GREASE INTERCEPTOR, 200-GPM WITH 4,954-LBS OF GREASE CAPACITY, REFER TO CIVIL FOR LOCATION AND LAYOUT RELATIVE TO THE BUILDING. REFER TO P1.3 FOR ADDITIONAL INFORMATION.	
GL-2	GREASE INTERCEPTOR	4"	3"	-	-	SCHIER #GB-50 HYDROMECHANICAL POLYETHYLENE GREASE INTERCEPTOR, 50-GPM WITH 439.5-LBS OF GREASE CAPACITY, REFER TO CIVIL FOR LOCATION AND LAYOUT RELATIVE TO THE BUILDING.	
SW-1	SAMPLE WELL	6"	-	-	-	SCHIER #SV10 POLYETHYLENE SAMPLE WELL PORT, REFER TO CIVIL FOR LOCATION AND LAYOUT RELATIVE TO THE BUILDING. REFER TO SHEET P1.3 FOR MORE INFORMATION.	

KITCHEN HOT WATER DEMAND				
DESCRIPTION	QTY.	GPH	TOTAL GPH	
LAVATORY	5	5	25	
KITCHEN HAND SINK	7	5	35	
BAR HAND SINK	3	5	15	
20 GALLON KETTLE	1	10	10	
3 COMPARTMENT SINK	1	90	90	
PRE-RINSE SINK	6	20	120	
DISHWASHER	1	50	50	
SERVICE SINK FAUCET	1	20	20	
HOT WATER, SUM-TOTAL GPH:			365	
PEAK DEMAND				
1. 365 GPH (PEAK DEMAND) x 0.40 (DEMAND FACTOR) =		146	GPH	
2. 146 GPH (DEMAND) x 1.0 (STORAGE FACTOR) =		146	GALS	
3. 365 GPH (PEAK DEMAND) / 60 MIN./HR =		6	GPM	
4. DOMESTIC SUPPLY WATER TEMPERATURE =		40	°F	
5. DESIGN SUPPLY HOT WATER FOR KITCHEN =		140	°F	
6. MIN. OUTPUT BTUH REQUIRED AT WATER HEATER (500 x GPM x ΔT) =		300,000	BTUH	
PROBABLE DEMAND				
1. 146 GPH (PROBABLE DEMAND) x 0.40 (DEMAND FACTOR) =		58.4	GPH	
2. 58.4 GPH (DEMAND) x 1.0 (STORAGE FACTOR) =		58.4	GALS	
3. 146 GPH (PROBABLE DEMAND) / 60 MIN./HR =		2.4	GPM	
4. DOMESTIC SUPPLY WATER TEMPERATURE =		40	°F	
5. DESIGN SUPPLY HOT WATER FOR KITCHEN =		140	°F	
6. MIN. OUTPUT BTUH REQUIRED AT WATER HEATER (500 x GPM x ΔT) =		120,000	BTUH	

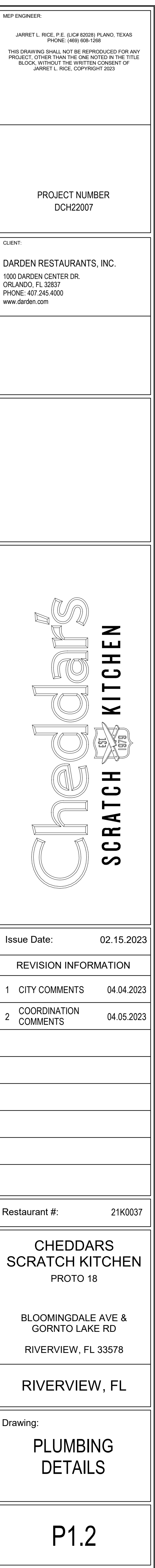
GAS DEMAND LOAD					
	DESCRIPTION	CONN. SIZE	QTY.	INPUT (MBH / EA)	TOTAL (MBH)
70	4 BURNER COUNTERTOP TOP RANGE	3/4"	1	100	100
72	CONVECTION OVEN	3/4"	1	110	110
76	PASTA COOKER	3/4"	1	60	60
80	FRYER BANK	1"	1	300	300
84	CHARBROILER	1"	1	187	187
88	FRYER BANK	1"	1	75	75
111	GRIDDLE	1"	1	108	108
OL1	GAS WALL SCONCE	1/2"	2	10	20
WH-1	WATER HEATER	3/4"	1	199	199
WH-2	WATER HEATER	3/4"	1	199	199
RTU-1	ROOFTOP UNIT	3/4"	1	200	200
RTU-2	ROOFTOP UNIT	3/4"	1	200	200
RTU-3	ROOFTOP UNIT	3/4"	1	250	250
RTU-4	ROOFTOP UNIT	1"	1	400	400
MAU-1	MAKE-UP AIR UNIT	-	-	0	0
COOKING APPLIANCE SUB-TOTAL					940
WATER HEATING SUB-TOTAL					398
HVAC SUB-TOTAL					1,050
GAS DEMAND TOTAL (MBH)					2,408
GAS DEMAND TOTAL (BTU/h)					2,408,000
GAS DEMAND TOTAL (CFH)					2,408
NOTES:					
1. THE SYSTEM IS SIZED FOR A TOTAL DEVELOPED LENGTH OF MAXIMUM 300'-0".					
2. THE CONTRACTOR SHALL COORDINATE WITH THE NATURAL GAS SERVICE PROVIDER FOR THE PROVISION OF THE COMPLETE SYSTEM INCLUDING METER AND REGULATOR ASSEMBLY, ETC.					
3. THE SERVICE PRESSURE TO THE BUILDING SHALL BE INSTALLED FOR DISTRIBUTION AS MEDIUM PRESSURE SUPPLY (2.0 PSIG).					
4. COORDINATE THE COMPLETE INSTALLATION OF THE METER ASSEMBLY INCLUDING DISTRIBUTION PIPING DOWNSTREAM FROM THE METER.					
5. PIPE SIZES SHOWN ON THE RISER DIAGRAM ARE BASED ON 2018 INTERNATIONAL FUEL GAS CODE, TABLE 402.4(5). VERIFY FIELD CONDITIONS FOR ACTUAL DEVELOPED LENGTH AND POSSIBLE ADJUSTMENTS TO PIPE SIZES IN THE FIELD.					

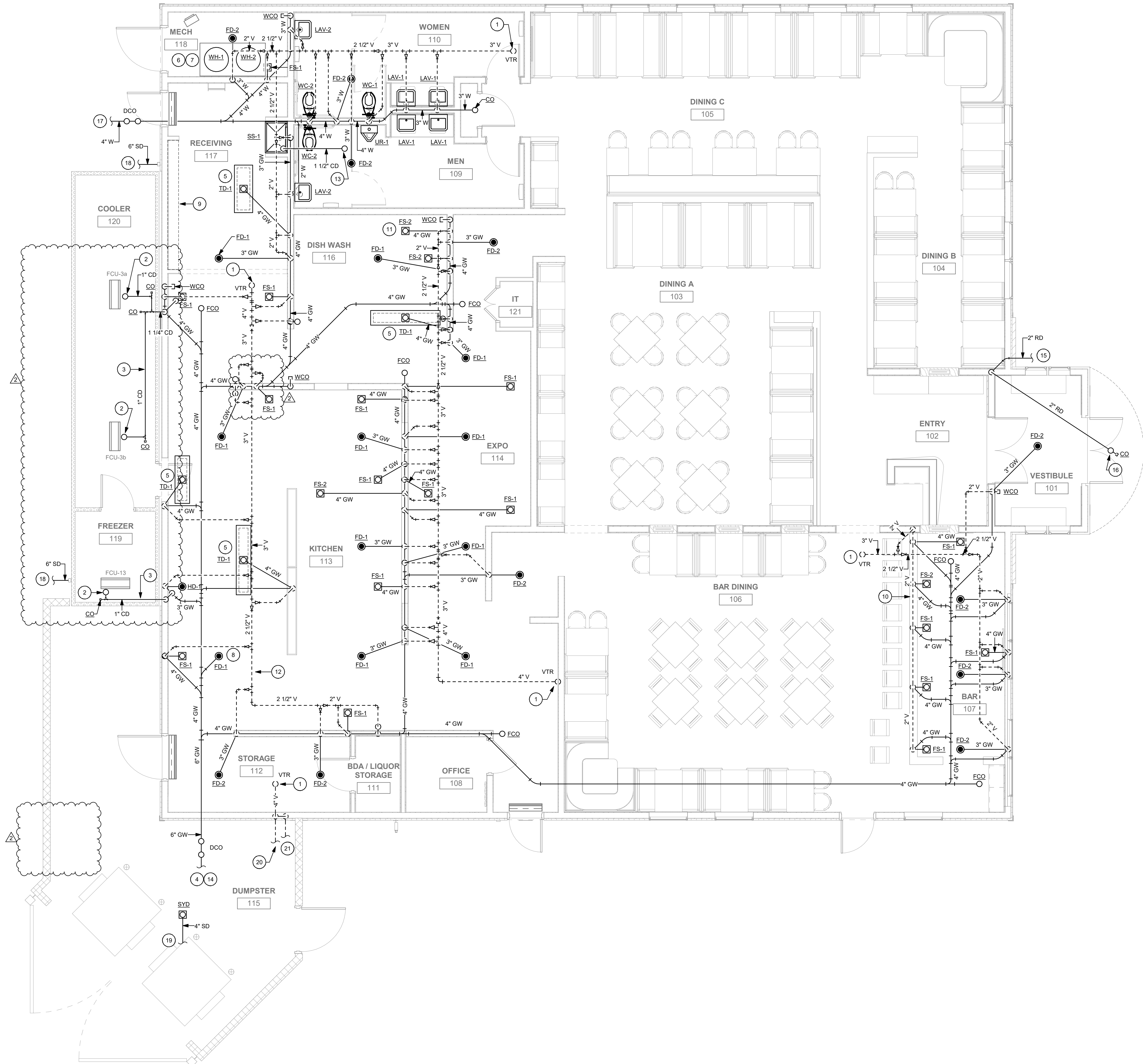
PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE	ROUGH-IN SIZE				DESCRIPTION / REMARKS	
		S / W	V	CW	HW		
WC-1	WATER CLOSET	4"	2"	1-1/2"	-	AMERICAN STANDARD "MADERA" FLOW-WISE #2234.001 FLOOR MOUNTED, FLUSH VALVE, WHITE VITREOUS CHINA WITH EVERGLEEN SURFACE, 1.28 GPF SIPHON JET BOWL, 1 1/2" TOP SPUD CONNECTION, BOLT CAPS, INCLUDE SLOAN ROYAL #111 ESS-1.6 TOP SPUD SENSOR OPERATED FLUSH VALVE, ELONGATED OPEN FRONT SEAT (LESS COVER) WITH CHECK HINGE STOPS. INSTALL SOLID RING PIPE SUPPORT SLOAN J-212-A.	
WC-2	WATER CLOSET (ADA)	4"	2"	1-1/2"	-	AMERICAN STANDARD "MADERA" FLO-WISE #3461.001 ADA COMPLIANT FLOOR MOUNTED, FLUSH VALVE, WHITE VITREOUS CHINA WITH EVERGLEEN SURFACE, 1.28 GPF SIPHON JET BOWL, 1 1/2" TOP SPUD CONNECTION, BOLT CAPS, INCLUDE SLOAN ROYAL #111 ESS-1.6 TOP SPUD SENSOR OPERATED FLUSH VALVE, ELONGATED OPEN FRONT SEAT (LESS COVER) WITH CHECK HINGE STOPS. INSTALL SOLID RING PIPE SUPPORT SLOAN J-212-A.	
UR-1	URINAL (ADA)	2"	1-1/2"	3/4"	-	TOTO UT104E LOW CONSUMPTION 0.5GPF WASHOUT URINAL, 3/4" TOP SPUD INLET, WHITE VITREOUS CHINA, INCLUDE SLOAN ROYAL #116 ESS-0.5 EXPOSED TOP SPUD SENSOR OPERATED FLUSH VALVE.	
LAV-1	LAVATORY (ADA)	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD #0426.000 UNDER COUNTER MOUNT, INSTALL COMPLETE WITH KOHLER K-13462 ELECTRONIC PLUG-IN FAUCET WITH GRID DRAIN, EL 154 TRANSFORMER & MIX-135A THERMOSTATIC MIXING VALVE FOR 110° HW SUPPLY.	
LAV-2	LAVATORY (ADA)	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD "DECORUM" #0024.001EC ADA COMPLIANT WALL MOUNTED, WHITE VITREOUS CHINA LAVATORY WITH CONCEALED ARM SUPPORTS AND CENTER HOLE FOR FAUCET, KOHLER K-13462 ELECTRONIC PLUG-IN WITH GRID DRAIN, EL 154 TRANSFORMER & MIX-135A THERMOSTATIC MIXING VALVE FOR 110° HW SUPPLY, P-TRAP AND WATER SUPPLIES SHALL BE WRAPPED WITH TRUEBRO LAVGUARD #102 FOR ADA PROTECTION.	
TD-1	TRENCH DRAIN	3"	2"	-	-	TRENCH DRAIN SLAB RECESSES SHALL BE FORMED IN PLACE BY G.C., PER SIZE AND LOCATIONS SHOWN ON THE FOOD SERVICE DRAWINGS. THE STAINLESS STEEL DRAIN LINER AND FIBERGLASS GRATE SHALL BE OWNER FURNISHED AND INSTALLED BY THE GC. PROVIDE TRAP ZAP LOCKING DRAIN BRACKET FOR COMPLETE INSTALLATION.	
FD-1	FLOOR DRAIN	3"	2"	-	-	ZURN #LC-P3S PVC BODY FLOOR DRAIN WITH #LC-CS CAST IRON ADAPTOR THREADED SHANK, PROVIDE WITH TRAP ZAP LOCKING DRAIN BRACKET FOR COMPLETE INSTALLATION.	
FD-2	FLOOR DRAIN	3"	2"	1/2"	-	ZURN #LC-P3S PVC BODY FLOOR DRAIN AND TRAP PRIMER, WITH #LC-CS CAST IRON ADAPTOR THREADED SHANK, PROVIDE WITH TRAP ZAP LOCKING DRAIN BRACKET FOR COMPLETE INSTALLATION.	
SYD	SERVICE YARD DRAIN	4"	-	-	-	ZURN #ZB10-3-MHL#LC-YC, CAST IRON, 12X12 HEAVY DUTY, AREA DRAIN, CAST IRON SEDIMENT BUCKET AND HINGED, LOCKABLE, SLID COVER.	
FS-1	FLOOR SINK	3", 4"	2"	-	-	ZURN FD-2370-H-Y, 12"x12"x6" DEEP PVC BODY, SQUARE SLOTTED MEDIUM DUTY, 1/2 GRATING, WHITE, ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, ALUMINUM ANTISPLASH INTERIOR, PROVIDE TRAP ZAP LOCKING DRAIN BRACKET FOR COMPLETE INSTALLATION. COORDINATE LOCATION WITH 6"x6" TILES.	
FS-2	FLOOR SINK	3", 4"	2"	-	-	ZURN Z-1910-2-32, 8"x8"x6" DEEP CAST IRON BODY, SQUARE SLOTTED MEDIUM DUTY 1/2 GRATING, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, ALUMINUM ANTISPLASH INTERIOR, PROVIDE TRAP ZAP LOCKING DRAIN BRACKET FOR COMPLETE INSTALLATION.	
FS-3	FLOOR SINK	3", 4"	2"	-	-	ZURN #1902 SANI-FLOOR RECEPTOR, 12x12x10 ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, CAST IRON BODY, AND SQUARE SLOTTED ACID RESISTING ENAMELED LIGHT DUTY GRATE COORDINATE GRATE CONFIGURATION WITH KITCHEN ROUGH IN PLANS, PROVIDE TRAP ZAP LOCKING DRAIN BRACKET FOR COMPLETE INSTALLATION.	
FCO	FLOOR CLEANOUT	LINE SIZED	-	-	-	ZURN #CO-2450, PVC BODY WITH SQUARE ADJUSTABLE SCORIATED NICKEL BRONZE TOP, GASKET SEAL BRASS THREADED PLUG WITH RECESSED SOCKET.	
WCO	WALL CLEANOUT	LINE SIZED	-	-	-	ZURN #CO-2410-CO2530, NO-HUB PVC CLEANOUT TEE WITH ROUND STAINLESS STEEL COVER AND CENTER SCREW, GASKETED SEAL IRON THREADED PLUG WITH RECESSED SOCKET.	
DCO	DOUBLE CLEANOUT	LINE SIZED	-	-	-	ZURN #CO-3448, PVC CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, GASKET SEAL CAST IRON PLUG WITH RECESSED SOCKET, INSTALL IN MINIM OF 12"x12"x4" REINFORCED CONCRETE PAD WITH BEVELED EDGES.	
HB-2	HOSE BIBB	-	-	3/4"	-	ZURN Z-1300 ECOLOTROL, ANTI-SIPHON VACUUM BREAKER, ENCLOSED IN A FLUSH MOUNTED WALL BOX, WITH ANTI-SIPHON INTEGRAL VACUUM BREAKER AND ROUGH BRASS FINISH, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT ABOVE FINISHED GRADE (UNO).	
HB-3	HOSE BIBB	-	-	3/4"	3/4"	MIFAB #MHY-45 SELF DRAINING FREEZELESS WALL FAUCET ENCLOSED IN A FLUSH MOUNTED WALL BOX, WITH ANTI-SIPHON INTEGRAL VACUUM BREAKER AND ROUGH BRASS FINISH, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT ABOVE FINISHED GRADE (UNO).	
HB-4	HOSE BIBB	-	-	3/4"	-	MIFAB MHY-90-31 AUTOMATIC DRAINING WALL FAUCET WITH ANTI-SIPHON INTEGRAL VACUUM BREAKER, INSTALL FIXTURE THROUGH CURB BASE OF MECHANICAL ROOFTOP UNIT.	
HD-1	HUB DRAIN	3"	2"	-	-	FIELD FABRICATED PVC BODY HUB DRAIN WITH BOTTOM OUTLET AND PVC REDUCER, TOP OF THE HUB SHALL BE 6" AFF.	
SS-1	SERVICE SINK	3"	2"	3/4"	3/4"	SERVICE SINK SHALL BE CUSTOM BUILT BY OTHERS, PROVIDE DRAIN (FD-1) AND SPEAKMAN #SC-5811 CHROME PLATED SERVICE FAUCET w/ VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE, PAIL HOOK AND HOSE THREAD ON SPOUT.	
RD-1	ROOF DRAIN	4"	-	-	-	ZURN #RD2130-NH3-C" COMBINATION ROOF DRAIN AND OVERFLOW, CAST IRON BODY WITH UNDERDCK CLAMP WITH INTEGRAL GRAVEL GUARD AND CAST IRON DOME STRAINER.	
RD-2	ROOF DRAIN	2"	-	-	-	DUROLAST 2 PIECE PVC ROOF DRAIN, CAST IRON DOME STRAINER ITEM 1930, 1 PAIR COMPOSITE DRAIN RINGS, DUROLAST SEALANT SB-240 OR MANUFACTURER OR APPROVED EQUAL.	
DN-1	DOWNSPOUT NOZZLE	4"	-	-	-	ZURN #199 DOWNSPOUT NOZZLE, NICKEL BRONZE BODY WITH DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.	

PLUMBING SYMBOL LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
=====	W	SANITARY WASTE
=====	GW	GREASE WASTE
-----	V	VENT LINE
-----	RD	ROOF DRAIN
-----	OFD	OVERFLOW ROOF DRAIN
-----	CD	CONDENSATE DRAIN
-----	F	FIRE PROTECTION PIPING
-----	DSP	DRY SPRINKLER PIPING
-----	FDC	FIRE DEPARTMENT CONNECTION
-----	SPR	SPRINKLER PIPING
-----	G	NATURAL GAS LINE
-----	PD	PUMPED DISCHARGE
-----	CW	DOMESTIC COLD WATER
-----	SW	SOFTENED WATER
-----	FW	FILTERED WATER
-----	DA	DIALYSIS SUPPLY WATER
-----	HW	DOMESTIC HOT WATER
-----	HWR	DOMESTIC HOT WATER RETURN
-----		DIRECTION OF FLOW
-----		DIRECTION OF FALL
-----		PIPE UP
-----		PIPE DOWN
-----		TEE DOWN
-----		P-TRAP
-----		SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
-----	CA	COMPRESSED AIR
-----		2-WAY CLEANOUT
-----		UNION
-----		GATE VALVE
-----		BALL VALVE OR BALANCING VALVE
-----		CHECK VALVE
-----		STRAINER
-----		BALANCING VALVE
-----	NFWH / HB	NON FREEZE WALL HYDRANT / HOSE BIBB
-----	PRV	PRESSURE REDUCING VALVE
-----	PRV	PRESSURE REDUCING VALVE
-----		GAS COOK
-----		BALANCING VALVE
-----		CONNECT TO EXISTING
-----		DEMOLISH TO POINT
-----	VTR	VENT THRU ROOF
-----	AFF	ABOVE FINISHED FLOOR
-----	BFF	BELOW FINISHED FLOOR
-----	AFG	ABOVE FINISHED GRADE
-----	CWV	COMBINATION WASTE AND VENT
-----	CO	CLEANOUT
-----	FCO	FLOOR CLEANOUT
-----	FDC	FIRE DEPARTMENT CONNECTION
-----	GPM	GALLONS PER MINUTE
-----	DS	DOWNSPOUT
-----	RD	ROOF DRAIN
-----	SQFT	SQUARE FEET
NOTE: NOT ALL SYMBOLS AND LINE TYPES MAY BE USED ON PLANS.		

BACKFLOW DEVICE SCHEDULE			
ITEM / FIXTURE	EQUIPMENT #	BACKFLOW DEVICE	
BAG-N-BOX SODA SYSTEM	-	RPZ-1	
ROOF MOUNTED HOSE BIBB	-	BFP-1	
TEA BREWER(S)	-	BFP-2	
COFFEE MACHINE(S)	-		
ICE MAKER(S)	-		
ECOLAB CONNECTION(S)	-		
CAPPUCCINO MACHINE	-		
SODA DISPENSER(S)	-		
DOMESTIC WATER SERVICE	-	BFP-3	
FIRE WATER SERVICE	-		
DISHWASHER	-	VB-1	
POT FILL FAUCET(S)	-	INTEGRAL	
HOSE BIBB(S)	-		
SERVICE SINK	-		
NOTES:			
1. BACKFLOW PREVENTERS SHALL BE INSTALLED UPSTREAM OF ALL FIXTURES LISTED IN THIS SCHEDULE OR OTHERWISE REQUIRED BY LOCAL JURISDICTIONAL CODES.			

PLUMBING GENERAL NOTES		
1	NOTE: FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND NOT TO SCALE. THE DRAWINGS SHALL BE DRAWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.	PROJECT NUMBER DCH22007
2	THE PLUMBING SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.	
3	PLUMBING QUALITY, WEIGHTS OF MATERIALS AND ALTERNATE METHODS OF CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL PLUMBING CODE WITH STATE AMENDMENTS.	
4	CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS WITH ALL DISCIPLINES AND TRADES PRIOR TO SUBMITTAL OF BID AND ANEST TO THE TENANT.	
5	CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS AND METERS.	
6	THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND LABOR (INCLUDING THE COMPLETE PLUMBING SYSTEM) FOR A PERIOD OF ONE YEAR FROM WRITTEN ACCEPTANCE BY THE TENANT. ANY DEFECTS IN MATERIALS AND/OR LABOR FOUND WITHIN THE GUARANTEE PERIOD SHALL BE REMEDIED OR REPAIRED BY THIS CONTRACTOR IN A TIMELY FASHION, AT NO COST TO THE TENANT.	CLIENT: DARDEN RESTAURANTS, INC. 100





GENERAL NOTES - PLUMBING DWV PLAN

- A KEY NOTES WITH ELLIPTICAL SYMBOL AND NUMBER CORRESPOND TO KITCHEN EQUIPMENT SHOWN IN THE FOOD SERVICE SHEETS.
- B ANY EXPOSED PIPING SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO THE HEATED SIDE OF THE EXPOSED ROOF STRUCTURE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE HEATED SIDE OF THE WALL INSULATION.
- C INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE COORDINATED WITH ELECTRICAL AND MECHANICAL EQUIPMENT, STRUCTURAL SLAB AND FRAMING.
- D REFER TO PLUMBING SHEET P1.1 FOR PLUMBING FIXTURE AND EQUIPMENT SCHEDULES INCLUDING SPECIFICATIONS AND ROUGH-IN SIZES.
- E REFER TO THE FOOD SERVICE SHEETS FOR ADDITIONAL INFORMATION PERTAINING TO KITCHEN EQUIPMENT NOT SHOWN ON THESE SHEETS.
- F PLUMBING CONTRACTOR SHALL COORDINATE WITH THE KITCHEN EQUIPMENT SUPPLIER FOR THE COMPLETE INSTALLATION AND SERVICE CONNECTIONS OF ALL KITCHEN EQUIPMENT.
- G PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL DRAIN LINES FROM KITCHEN EQUIPMENT. REFER TO THE FOOD SERVICE SHEETS FOR PROPOSED SIZES AND ROUTINGS. ALL INDIRECT DRAIN LINES SHALL BE INSTALLED WITH APPROVED AIR GAPS.
- H REFER TO ARCHITECTURAL AND MILLWORK DRAWINGS FOR DETAILS OF COUNTERTOPS, CASEWORK, AND OTHER FIXTURES, SHOWING EXACT LOCATION OF OPENINGS FOR PLUMBING ITEMS BEING INSTALLED. COORDINATE THE COMPLETE INSTALLATION WITH THE GENERAL CONTRACTOR.
- I THE PROPOSED ROUTING AND SIZES OF UNDERSLAB SODA AND BEER SLEEVE LINES ARE SHOWN ON THE FOOD SERVICE SHEETS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR COMPLETE INSTALLATION AND COORDINATION WITH OTHER DISCIPLINES.
- J PLUMBING CONTRACTOR TO ARRANGE AND PAY FOR ALL REQUIRED FEES, PERMITS, AND MISCELLANEOUS COSTS ASSOCIATED WITH THE PLUMBING WORK PER LOCAL PLUMBING CODES.
- K PLUMBING CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING PRIOR TO ANY NEW CONSTRUCTION. COORDINATE WITH CIVIL DRAWINGS AND LOCAL UTILITIES PRIOR TO NEW INSTALLATION.
- L ALL WALL PIPING STUB-OUTS SHALL BE SECURELY TIED TO THE STRUCTURE WITH SUFFICIENT BACKING TO ELIMINATE ANY MOVEMENT.
- M FINAL CONNECTIONS TO SINKS IN THE KITCHEN SHALL BE HARD PIPED.
- N ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
- O CLEANOUTS SHALL BE INSTALLED ON CONDENSATE DRAIN LINES FROM WALK-IN COOLER & FREEZER EVAPORATORS.
- P PLUMBING CONTRACTOR IS RESPONSIBLE FOR CHECKING THE SEALS AROUND ALL PENETRATIONS TO THE FREEZER/COOLER WALLS WHILE INSTALLING CONDENSATE LINES.
- Q MANIFOLD DRAIN LINES FOR BAR DRAIN BOARDS, SINK AND DUMP SINK SHALL BE INSTALLED WITH A SEPARATE DRAIN LINE TERMINATED TO NEARBY FLOOR SINK. ALL DRAIN LINE MANIFOLDS TO RUN AS TIGHT TO THE BAR DIE WALL AS POSSIBLE.
- R UNDERGROUND NONMETALLIC WATER AND IRRIGATION SYSTEM PIPING LARGER THAN TWO (2) INCHES IN DIAMETER SHALL BE INSTALLED WITH INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR LOCATED ADJACENT TO THE PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH END OF THE NONMETALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL.

KEYNOTES - P2.1

- 1 ROUTE VENT UP TO VTR. COORDINATE ROOF PENETRATION LOCATION WITH OUTDOOR AIR INTAKE OF ROOF TOP EQUIPMENT. MAINTAIN A MINIMUM 10'-0" HORIZONTAL CLEARANCE.
- 2 ROUTE WALK-IN COOLER/FREEZER CONDENSATE DRAIN LINE AS HIGH AS POSSIBLE AND ALONG WALLS AS SHOWN. INSULATE ALL CONDENSATE PIPING WITH CLOSED CELL ARMAFLEX AND PITCH A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. SEAL ALL COOLER WALL PENETRATIONS WATER TIGHT AND COVER EACH WITH AN ESCUTCHEON PLATE. PROVIDE FULL SIZE TRAP AND EXTEND ABOVE FLOOR AND BEHIND EQUIPMENT FOR AN INDIRECT CONNECTION TO AN APPROVED RECEPTOR.
- 3 CONDENSATE DRAIN LINE IN THE WALK-IN FREEZER SHALL BE HEAT TRACED TO PREVENT FREEZING. HEAT TRACE TAPE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR.
- 4 REFER TO CIVIL PLANS FOR CONTINUATION OF UNDERGROUND GREASE WASTE PIPING. COORDINATE PROPOSED ROUTING WITH SITE UTILITIES, GRADING, LANDSCAPING AND CONCRETE WORK.
- 5 FIELD FABRICATED TRENCH DRAINS SHALL BE FORMED IN PLACE BY OTHERS AND INSTALLED COMPLETE BY THE PLUMBING CONTRACTOR.
- 6 PROVIDE PREFABRICATED DRAIN PAN UNDER WATER HEATER. EXTEND LINE SIZED DRAIN LEADER FROM PAN (3/4" MIN.) AND TERMINATE INDIRECTLY AT FLOOR SINK. COORDINATE ROUTING IN THE FIELD.
- 7 EXTEND TAP VALVE DRAIN LEADER (3/4" MIN.) AND TERMINATE INDIRECTLY AT FLOOR SINK. COORDINATE ROUTING IN THE FIELD.
- 8 FIXTURE DRAIN IS CONNECTED TO A HORIZONTAL BRANCH DRAIN AND IS CONSIDERED COMBINATION WASTE AND VENT SYSTEM PER 2018 INTERNATIONAL PLUMBING CODE.
- 9 PROPOSED ELECTRICAL PANEL LOCATION. NO PIPING SHALL BE INSTALLED ABOVE OR BELOW THE CEILING AT THIS LOCATION.
- 10 ROUTE VENT PIPING IN LOW WALL. RISE IN FULL HEIGHT WALL, PROCEED TO ROUTE IN CEILING SPACE, AS SHOWN.
- 11 4" SEWER PIPE FROM FLOOR SINK SERVING THE DISHWASHER, THE FIRST 10' SHALL BE CAST IRON.
- 12 INSTALL PIPING AS HIGH AS POSSIBLE TO AVOID CONFLICT WITH ANSUL PULL STATION CONDUIT.
- 13 HVAC CONDENSATE DRAIN PIPING DOWN FROM ROOF. ROUTE CONDENSATE DRAINAGE TO NEAREST APPROVED RECEPTACLE WITH AN INDIRECT CONNECTION.
- 14 REFER TO CIVIL DRAWINGS FOR ESTIMATED GREASE INTERCEPTOR LOCATION. COORDINATE PROPOSED ROUTING OF GREASE WASTE PIPING TO GREASE INTERCEPTOR WITH SITE UTILITIES, GRADING, LANDSCAPING AND CONCRETE WORK.
- 15 EXTEND THE BUILDING PRIMARY STORM LEADER PIPING ON SITE. REFER TO THE CIVIL UTILITY PLANS) FOR PROPOSED ROUTING BEYOND THE BUILDING. VERIFY LOCATION & INVERT ELEVATIONS OF CONNECTIONS AT THE MAIN PRIOR TO ANY WORK.
- 16 STORM DRAIN PIPING DOWN FROM ROOF DRAIN ABOVE.
- 17 REFER TO CIVIL DRAWINGS FOR ESTIMATED SANITARY SEWER LOCATION. COORDINATE PROPOSED ROUTING OF SANITARY SEWER PIPING TO SITE UTILITIES, GRADING, LANDSCAPING AND CONCRETE WORK.
- 18 ROUTE THE STORM DRAIN GUTTER DOWNSPOUT LEADER (PROVIDED BY THE GC) DOWN ON EXTERIOR OF BUILDING AND BELOW GRADE FOR EXTENSION ON SITE. REFER TO THE CIVIL UTILITY PLANS) FOR PROPOSED ROUTING BEYOND THE BUILDING.
- 19 4" AREA DRAIN SERVING SERVICE YARD TO BE ROUTED TO SANITARY SEWER THROUGH GI-2. REFER TO CIVIL FOR CONTINUATION. COORDINATE PROPOSED ROUTING OF GREASE WASTE PIPING TO GREASE INTERCEPTOR WITH SITE UTILITIES, GRADING, LANDSCAPING, AND CONCRETE WORK.
- 20 3" VENTS FROM GREASE INTERCEPTOR. CONNECT AT 42" A.F.F. PROVIDE WALL CLEANOUT IN EACH VENT. DO NOT CONNECT INTERCEPTOR VENTS TO BUILDING VENT. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH CIVIL.
- 21 3" VENTS FROM GREASE INTERCEPTOR. REFER TO CIVIL FOR CONTINUATION.

MEP ENGINEER

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PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407.245.4000
www.darden.com

Cheddar's
SCRATCH KITCHEN

Issue Date: 02.15.2023

REVISION INFORMATION

- | | | |
|---|-----------------------|------------|
| 1 | CITY COMMENTS | 04.04.2023 |
| 2 | COORDINATION COMMENTS | 04.05.2023 |

Restaurant #: 21K0037

CHEDDARS
SCRATCH KITCHEN
PROTO 18

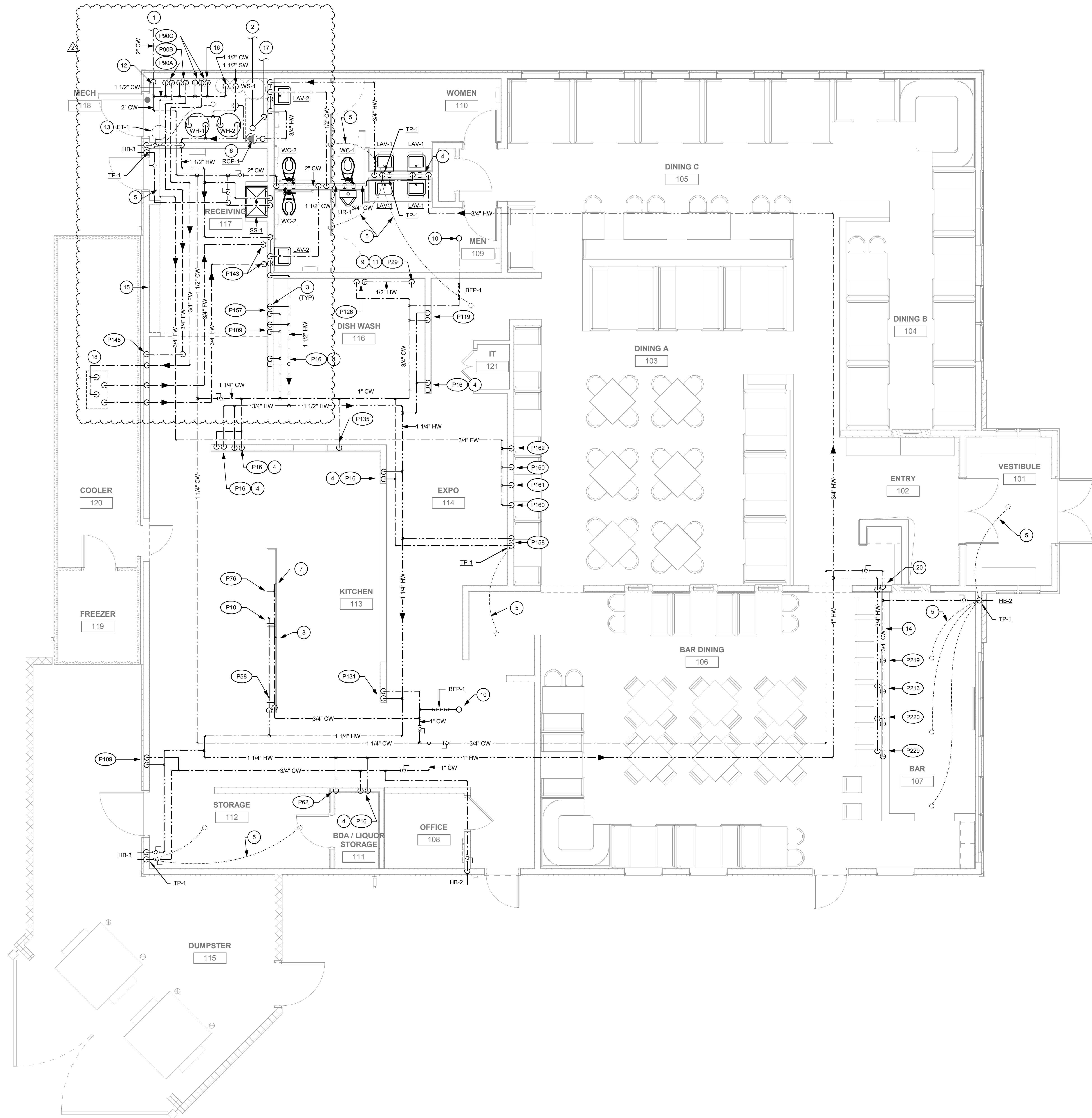
BLOOMINGDALE AVE &
GORNTO LAKE RD
RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:

PLUMBING DWV
FLOOR PLAN

P2.1



GENERAL NOTES - PLUMBING WATER PLAN

- A KEY NOTES WITH ELLIPTICAL SYMBOL AND NUMBER CORRESPOND TO KITCHEN EQUIPMENT SHOWN IN THE FOOD SERVICE SHEETS.
- B ANY EXPOSED PIPING SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO THE HEATED SIDE OF THE EXPOSED ROOF STRUCTURE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE HEATED SIDE OF THE WALL INSULATION.
- C INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE COORDINATED WITH ELECTRICAL AND MECHANICAL EQUIPMENT, STRUCTURAL, SLAB AND FRAMING.
- D REFER TO PLUMBING SHEET P1.1 FOR PLUMBING FIXTURE AND EQUIPMENT SCHEDULES INCLUDING SPECIFICATIONS AND ROUGH-IN SIZES.
- E REFER TO THE FOOD SERVICE SHEETS FOR ADDITIONAL INFORMATION PERTAINING TO KITCHEN EQUIPMENT NOT SHOWN ON THESE SHEETS.
- F PLUMBING CONTRACTOR SHALL COORDINATE WITH THE KITCHEN EQUIPMENT SUPPLIER FOR THE COMPLETE INSTALLATION AND SERVICE CONNECTIONS OF ALL KITCHEN EQUIPMENT.
- G REFER TO ARCHITECTURAL AND MILLWORK DRAWINGS FOR DETAILS OF COUNTERTOPS, CASEWORK, AND OTHER FIXTURES, SHOWING EXACT LOCATION OF OPENINGS FOR PLUMBING ITEMS BEING INSTALLED. COORDINATE THE COMPLETE INSTALLATION WITH THE GENERAL CONTRACTOR.
- H PLUMBING CONTRACTOR TO ARRANGE AND PAY FOR ALL REQUIRED FEES, PERMITS, AND MISCELLANEOUS COSTS ASSOCIATED WITH THE PLUMBING WORK PER LOCAL PLUMBING CODES.
- I BEFORE ANY USE OF THE WATER SYSTEM IS MADE FOR DOMESTIC PURPOSES, IT SHALL BE SLOWLY FILLING WITH WATER TO WHICH A STERILIZING AGENT HAS BEEN APPLIED, AT A RATE GIVING 50 PPM OF CHLORINE. AS DETERMINED BY RESIDUAL CHLORINE TEST AT EXTREMITIES OF THE LINE. AFTER LINES HAVE BEEN FILLED FOR A PERIOD OF THREE (3) HOURS, TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT LESS THAN 50 PPM. IF LESS THAN 50 PPM IS INDICATED, DRAIN OR FLUSH OUT THE LINE AND REPEAT STERILIZATION TREATMENT UNTIL TESTS INDICATE AT LEAST 50 PPM OF RESIDUAL CHLORINE AFTER THREE (3) HOURS. THE LINES SHALL BE FLUSHED UNTIL ALL TRACES OF CHEMICAL HAVE BEEN REMOVED.
- J PLUMBING CONTRACTOR TO FLUSH AND SANITIZE ALL WATER LINES PRIOR TO THE INSTALLATION OF THE FILTRATION SYSTEM.
- K PLUMBING CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING PRIOR TO ANY NEW CONSTRUCTION. COORDINATE WITH CIVIL DRAWINGS AND LOCAL UTILITIES PRIOR TO NEW INSTALLATION.
- L ALL WALL PIPING STUB-OUTS SHALL BE SECURELY TIED TO THE STRUCTURE WITH SUFFICIENT BACKING TO ELIMINATE ANY MOVEMENT.
- M ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED WITH WATER SUPPLY STOP VALVES IN ACCESSIBLE LOCATIONS. SUPPLY PIPING TO SINKS AND EQUIPMENT SHOULD BE INSTALLED COMPLETE WITH 1/4 TURN BALL VALVES.
- N FINAL CONNECTIONS TO SINKS IN THE KITCHEN SHALL BE HARD PIPED.
- O ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
- P HOT WATER SUPPLY DISCHARGE FROM RESTROOM LAVS, BAR AND KITCHEN HAND SINKS SHALL BE TEMPERED TO 110°F MAX.
- Q PROVIDE PRESSURE REDUCING VALVE CONFORMING TO ASSE 1003 FOR INCOMING DOMESTIC SERVICE IF PRESSURE EXCEEDS 75 P.S.I. PROVIDE PRESSURE REDUCING VALVE AT DISHWASHER AS RECOMMENDED BY MANUFACTURER.
- R PROVIDE INDIVIDUAL BACKFLOW PROTECTION FOR ALL WATER OUTLETS CONNECTING DIRECTLY TO ANY MIXING, BREWING, DISPENSING APPLIANCE, SODA FILTER, ICE MAKER, DEVICE OR APPARATUS AS REQUIRED BY FBC (PLUMBING) 606.3 AND 606.15.
- S PROVIDE A SHUT-OFF VALVE ON THE WATER SUPPLY LINE FOR HOSE BIBBS. COMPLY WITH FBC (PLUMBING) 606.2(2).

KEYNOTES - P2.2

- 1 2" DOMESTIC WATER SERVICE. REFER TO THE CIVIL DWG PACKAGE FOR CONNECTION TO SITE UTILITIES.
- 2 FIRE SPRINKLER CONTRACTOR SHALL ROUGH-IN 6" FIRE SERVICE TO THE MECHANICAL ROOM, COMPLETE WITH 6" GATE VALVE AT THE RISER BASE AND BACKFLOW ASSEMBLY PER JURISDICTIONAL REQUIREMENTS. THE FIRE RISER ASSEMBLY SHALL BE INSTALLED BY A DAILY LICENSED FIRE PROTECTION CONTRACTOR. 4X2" RISER FOOTPRINT SHOWN FOR AVAILABLE CLEARANCE.
- 3 INSTALL CHECK AND SHUT-OFF VALVES ABOVE CEILING TO ALL FIXTURES IN KITCHEN AREA.
- 4 ROUTE 1/2" HW & CW DOWN IN WALL TO HAND WASHING FIXTURE. INSTALL SUPPLIES COMPLETE WITH HOT WATER TEMPERING VALVE.
- 5 1/2" CW BELOW FLOOR, FROM TRAP PRIMER TO FLOOR DRAIN RECEPTOR.
- 6 PROVIDE INLINE HOT WATER RECIRCULATION PUMP AND CHECK VALVE ASSEMBLY IN THE MECHANICAL ROOM.
- 7 ALL WATER PIPING IN THE COOKLINE WALL SHALL BE INSTALLED AS RIGID COPPER PIPE. NO PLASTIC TUBING ALLOWED.
- 8 WATER PIPING SHALL BE FIELD INSTALLED LOW IN PREFABRICATED COOKLINE WALL, BELOW PASS THROUGH WINDOWS. REFER TO KITCHEN PLANS FOR ROUGH-IN INFORMATION.
- 9 3/4" HW ECOLAB CONNECTION WITH RPZ AND PRESSURE REDUCING VALVE.
- 10 ROUTE 3/4" COLD WATER UP THRU ROOF WITHIN SEPARATION WALL AND TERMINATE WITH HOSE BIBB. REFER TO SHEET P3.1 FOR CONTINUATION ON THE ROOF.
- 11 DISHWASHER BY ECOLAB. TABLE BY KITCHEN EQUIPMENT SUPPLIER. DISHWASHER WATER CONNECTION AFTER BOOSTER HEATER TO BE AT 6'-0" AFF AND MAKE CONNECTION WITH HOT WATER BOOSTER HEATER EQUIPMENT SUPPLIED BY ECOLAB. INSTALLED BY PLUMBING CONTRACTOR.
- 12 PLUMBING CONTRACTOR SHALL EXTEND THE 2" DOMESTIC WATER SERVICE TO THE MECHANICAL ROOM, COMPLETE WITH BACKFLOW ASSEMBLY AND MAIN SHUT OFF VALVE AT THE RISER BASE.
- 13 FIELD COORDINATE PLACEMENT OF THE HOT WATER EXPANSION TANK. WATER PIPE SHALL BE FULL SIZE OF THE EXPANSION TANK CONNECTION.
- 14 ROUTE WATER DISTRIBUTION PIPING IN BAR DIE WALL, 12" A.F.F.
- 15 PROPOSED ELECTRICAL PANEL LOCATION. NO PIPING SHALL BE INSTALLED ABOVE OR BELOW THE CEILING AT THIS LOCATION.
- 16 INSTALL WATER FILTERS AND ASSOCIATED BACKFLOW DEVICE AND SHUT-OFFS AT APPROXIMATELY 6' A.F.F.
- 17 EXTEND THE 4" FIRE WATER SERVICE UNDERGROUND FROM THE FIRE RISER TO THE REMOTE FIRE DEPARTMENT CONNECTION ON SITE. REFER TO THE CIVIL UTILITY DRAWING FOR PROPOSED ROUTING AND FDC LOCATION.
- 18 ICE MACHINE WATER PRECOOLER SYSTEM. THE PIPING OUTSIDE THE WALK-IN COOLER SHALL BE INSULATED PER DOMESTIC SERVICE WATER PIPING INSULATION CRITERIA. THE PIPING INSIDE THE WALK-IN COOLER SHALL BE UNINSULATED TYPE L COPPER. REFER TO WATER FILTER PROVISION SCHEMATIC ON SHEET P1.3.

MEP ENGINEER

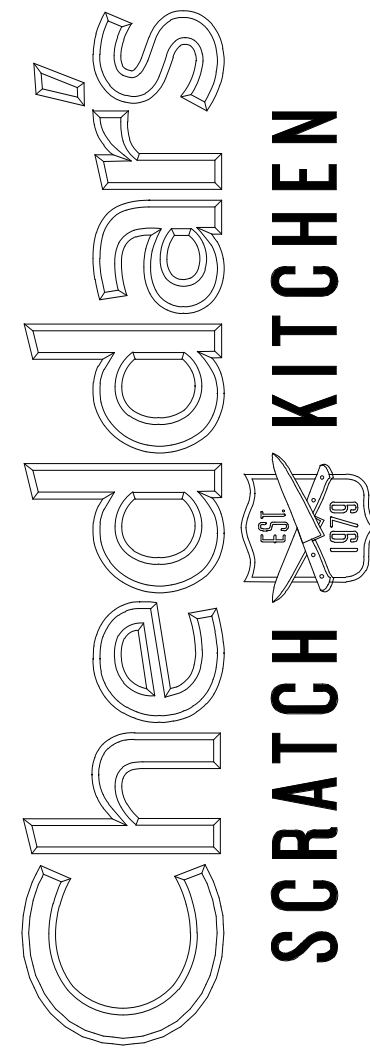
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PROJECT NUMBER
DCH22007

CLIENT:

DARDEN RESTAURANTS, INC.
1000 DARDEN CENTER DR.
ORLANDO, FL 32837
PHONE: 407-245-4000
www.darden.com



Issue Date: 02.15.2023

REVISION INFORMATION

1	CITY COMMENTS	04.04.2023
2	COORDINATION COMMENTS	04.05.2023

Restaurant #: 21K0037

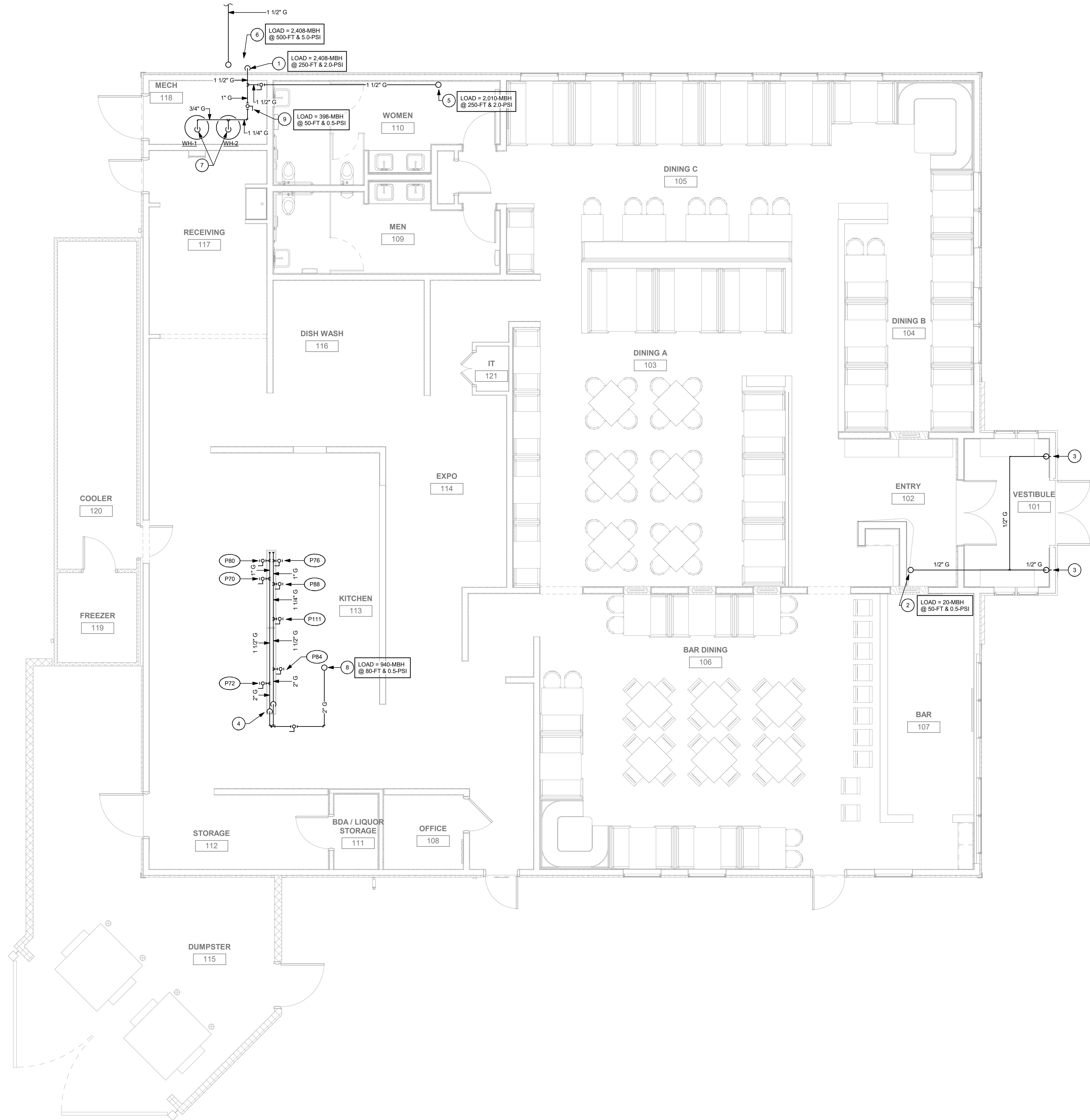
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PROTO 18

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RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
PLUMBING WATER
FLOOR PLAN

P2.2



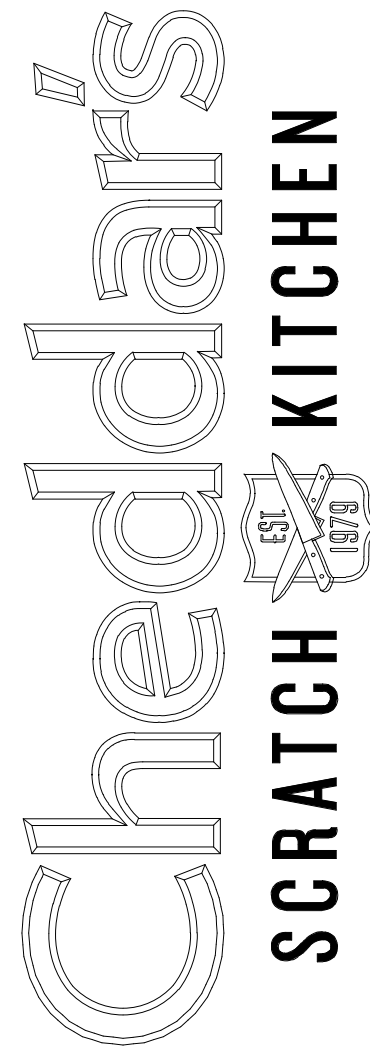
- GENERAL NOTES - PLUMBING GAS PLAN**
- A ELECTRICAL GAS SHUT-OFF VALVE FOR HOOD FIRE PROTECTION SYSTEM TO BE MOUNTED AT +1'2" ABOVE FINISHED CEILING TILE. PROVIDE A LOCATION DECAL ON THE CEILING TILE INDICATING "HOOD VALVE".
 - B ALL PIPING INSTALLED ABOVE THE FINISHED CEILINGS SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO THE BOTTOM OF THE ROOF STRUCTURE, FOR CLEARANCE WITH THE MECHANICAL DUCTWORK.
 - C THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE COORDINATED WITH ALL ELECTRICAL AND MECHANICAL EQUIPMENT, AND STRUCTURAL SLAB AND FRAMING.
 - D ALL WALL PIPING STUB-OUTS SHALL BE SECURELY TIED TO THE STRUCTURE WITH SUFFICIENT BACKING TO ELIMINATE ANY MOVEMENT.
 - E REFER TO THE KITCHEN DRAWINGS PREPARED BY THE KITCHEN EQUIPMENT DESIGNER FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
 - F PROVIDE 16GA. CARBON STEEL STRIKER PLATE AT EACH STUD WITH A GAS PIPING PENETRATION FOR PUNCTURE PROTECTION OF GAS PIPING IN WALL.
 - G PROVIDE PIPE SUPPORTS AND EXPANSION LOOPS AS REQUIRED.
 - H ALL ROOF MOUNTED NATURAL GAS PIPING EXPOSED TO WEATHER SHALL HAVE A PRIMER COAT OF ZINC RICH GALVANIZING PAINT FOR CORROSION PROTECTION. FINAL PAINT FINISH SHALL BE DONE BY PLUMBING CONTRACTOR.
 - I ELLIPTICAL SYMBOLS WITH NUMBERS CORRESPOND TO KITCHEN EQUIPMENT TAGS SHOWN IN KITCHEN PLAN SHEETS. REFER TO FOOD SERVICE SHEETS FOR SUPPLEMENTAL INFORMATION.
 - J ALL INTERIOR NATURAL GAS PIPING SHALL BE INSTALLED AS THREADED PIPE, OR SHALL BE RUN CONTINUOUSLY SLEEVED. INSTALLED NATURAL GAS PIPING SHALL COMPLY WITH APPLICABLE PLUMBING CODES.
 - K ALL COOKING APPLIANCES SHALL BE INSTALLED COMPLETE WITH FLEXIBLE HOSE CONNECTIONS QUICK DISCONNECTS AS FURNISHED BY THE KEC AND INSTALLED BY THE PLUMBING CONTRACTOR.
 - L ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
 - M PLUMBING CONTRACTOR TO ARRANGE AND PAY FOR ALL REQUIRED FEES, PERMITS, AND MISCELLANEOUS COSTS ASSOCIATED WITH THE PLUMBING WORK PER LOCAL PLUMBING CODES.

- KEYNOTES - P2.3**
- 1 ROUTE GAS LINE UP EXTERIOR WALL AS SHOWN. PIPE TO PENETRATE EXTERIOR WALL AND ENTER BUILDING ABOVE CEILING.
 - 2 GAS PIPING DOWN FROM ROOF TO SERVE VESTIBULE GAS WALL SCONCES. CONCEAL PIPING ABOVE CEILING OR IN ARCHITECTURAL CHASE.
 - 3 GAS PIPING ROUTED CONCEALED IN WALL TO SERVE VESTIBULE GAS WALL SCONCES. TRANSITION PIPE AS NECESSARY TO MATCH FIXTURE CONNECTION SIZE. PROVIDE WITH ACCESSIBLE SHUT-OFF VALVE IN WALL.
 - 4 EXTEND GAS LINE DOWN FROM CEILING AND ROUTE DOWN IN WALL TO THE COOKING LINE. PROVIDE WITH LINE SIZED VERTICALLY INSTALLED ELECTRIC SOLENOID GAS SHUT-OFF VALVE.
 - 5 GAS PIPING UP THRU ROOF.
 - 6 FURNISH AND INSTALL GAS METER ASSEMBLY. INCOMING GAS SERVICE IS ESTIMATED TO BE 0.5-PSI. REDUCE GAS PRESSURE AT METER TO 2.0-PSI AND ROUTE GAS PIPING TO BUILDING. CONTRACTOR TO MAINTAIN A 3' FOOT CLEARANCE OF GAS REGULATOR ASSEMBLY FROM ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
 - 7 GAS (0.5 PSI) DOWN TO WATER HEATER COMPLETE WITH GAS COCK UNION & 6" DIRT LEG.
 - 8 GAS PIPING DOWN FROM ROOF TO SERVE KITCHEN COOKING LINE. CONCEAL PIPING ABOVE CEILING.
 - 9 FURNISH UPSTREAM SHUT-OFF VALVE AND REGULATOR ASSEMBLY TO TRANSITION FROM 2.0-PSI DOWN TO 0.5-PSI. VENT REGULATOR DIRECTLY TO THE EXTERIOR.

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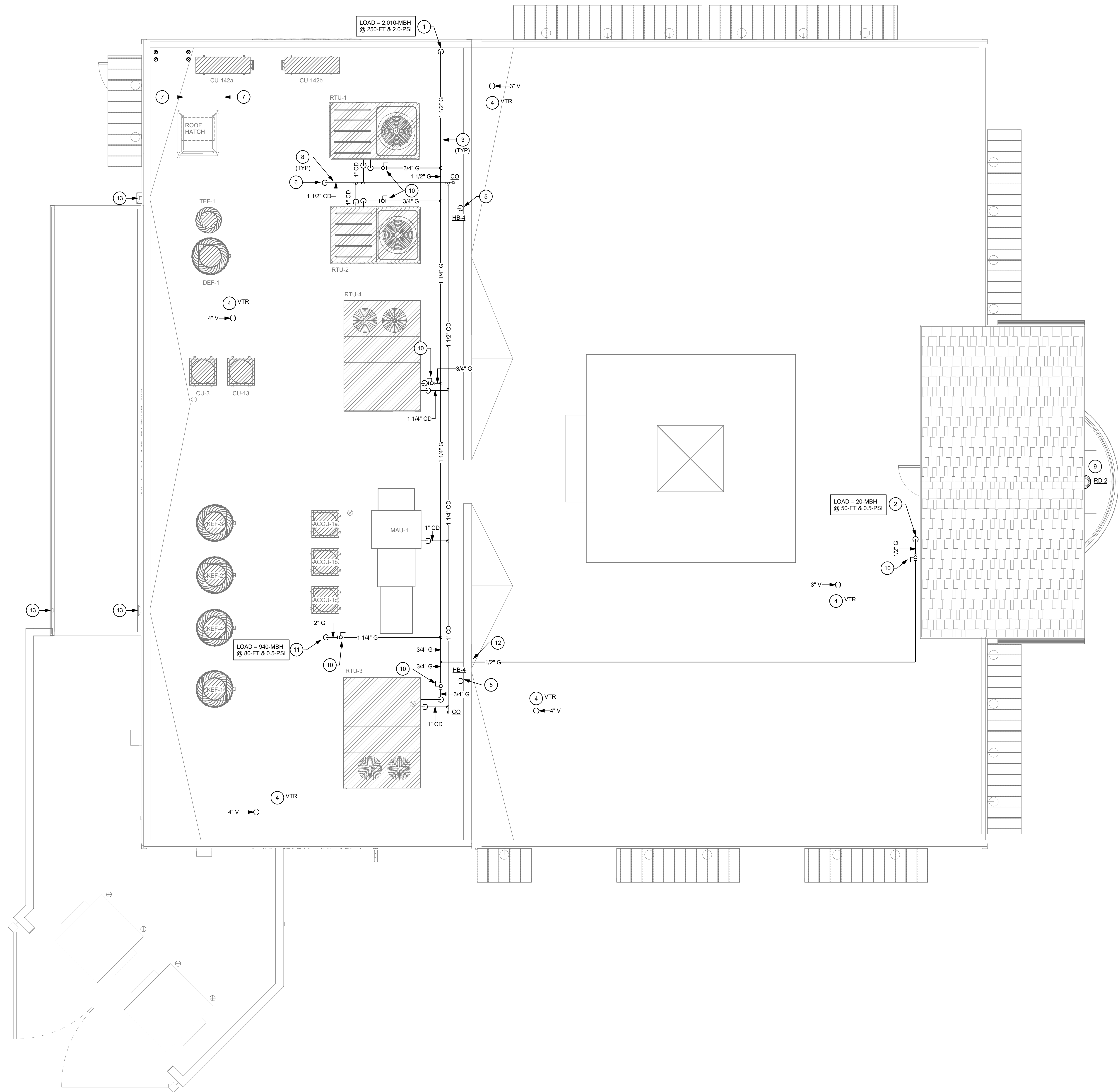
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PROTO 18

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RIVERVIEW, FL 33578

RIVERVIEW, FL

Drawing:
PLUMBING GAS
FLOOR PLAN

P2.3



GENERAL NOTES - PLUMBING ROOF PLAN

- 1 ALL PIPING INSTALLED ON THE ROOF SHALL BE SUPPORTED WITH PRE-MANUFACTURED ADJUSTABLE PIPE SUPPORTS AT MAXIMUM 5'-0\"/>

KEYNOTES - P3.1

- 1 GAS PIPING SHALL BE ROUTED DOWN THROUGH THE ROOF. REFER TO GAS PLUMBING PLAN FOR CONTINUATION OF GAS PIPING BELOW THE ROOF.
- 2 GAS PIPING TO THE VESTIBULE GAS WALL SCONCES SHALL ROUTE DOWN THROUGH ROOF. REFER TO GAS PLUMBING PLAN FOR CONTINUATION OF GAS PIPING BELOW THE ROOF.
- 3 GAS PIPING TO THE MECHANICAL UNIT SHALL BE ROUTED ON THE ROOF AS SHOWN. PROVIDE WEATHER TIGHT SEAL AT PIPE PENETRATION.
- 4 ROOF MOUNTED VENT THROUGH ROOF, SIZED AS SHOWN. INSTALLED LOCATION SHALL BE A MINIMUM OF 10'-0\"/>
- 5 ROUTE 3/4\"/>
- 6 2\"/>
- 7 COMBUSTION AIR INTAKE AND EXHAUST FLUE VENT FOR GAS FIRED WATER HEATERS. FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR. COORDINATE ROOF PENETRATION, FLASHING AND COUNTER-FLASHING WITH THE GENERAL CONTRACTOR.
- 8 CONDENSATE DRAIN PIPING FROM THE HVAC UNIT SHALL BE ROUTED ON ROOF, AS SHOWN, AT A MINIMUM PITCH OF 1/4\"/>
- 9 2\"/>
- 10 FURNISH UPSTREAM SHUT-OFF VALVE AND REGULATOR ASSEMBLY TO TRANSITION FROM 2.0-PSI DOWN TO 0.5-PSI.
- 11 GAS PIPING DOWN THROUGH ROOF TO SERVE COOKING LINE. REFER TO GAS PLUMBING PLAN FOR CONTINUATION.
- 12 GAS PIPING TO PASS THROUGH LOW WALL OPENING. COORDINATE WITH ARCHITECTURE TO ENSURE PIPING DOES NOT IMPEDE STORM DRAIN FLOW THROUGH OPENING.
- 13 STORM DRAIN TO BE PROVIDED VIA ARCHITECTURAL GUTTERS AND DOWNSPOUTS. COORDINATE WITH ARCHITECTURE TO ENSURE GUTTER DOWNSPOUTS ARE AT MINIMUM SIZE OF 6\"/>

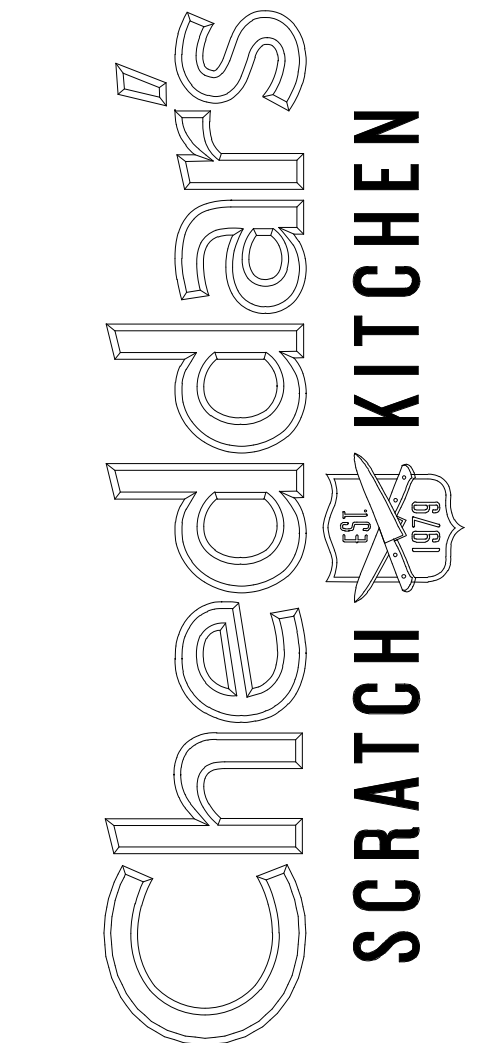
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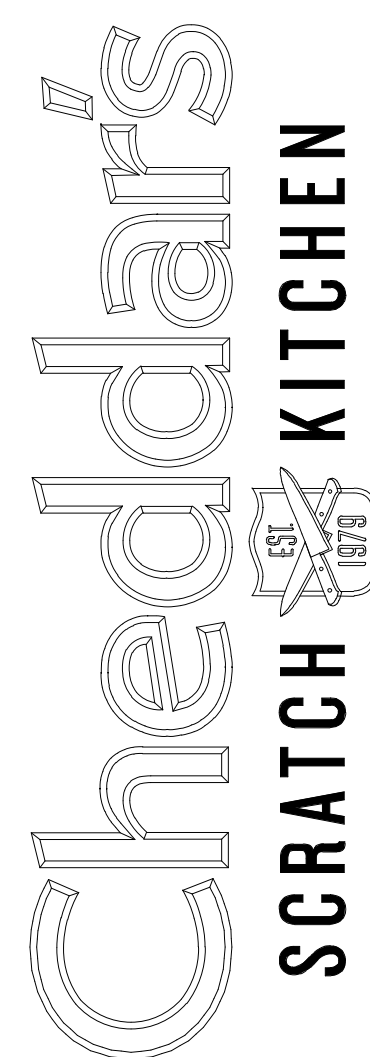
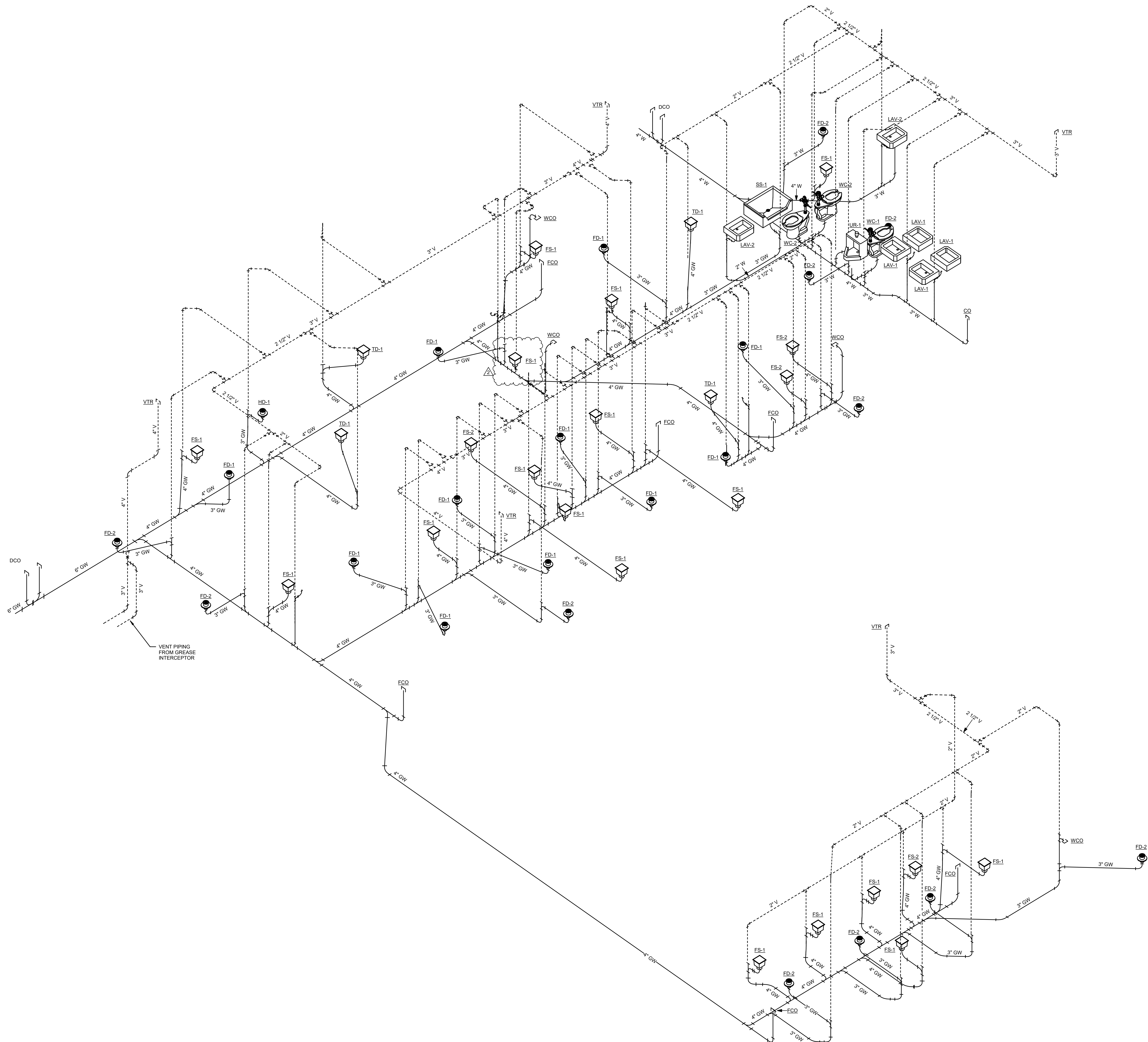
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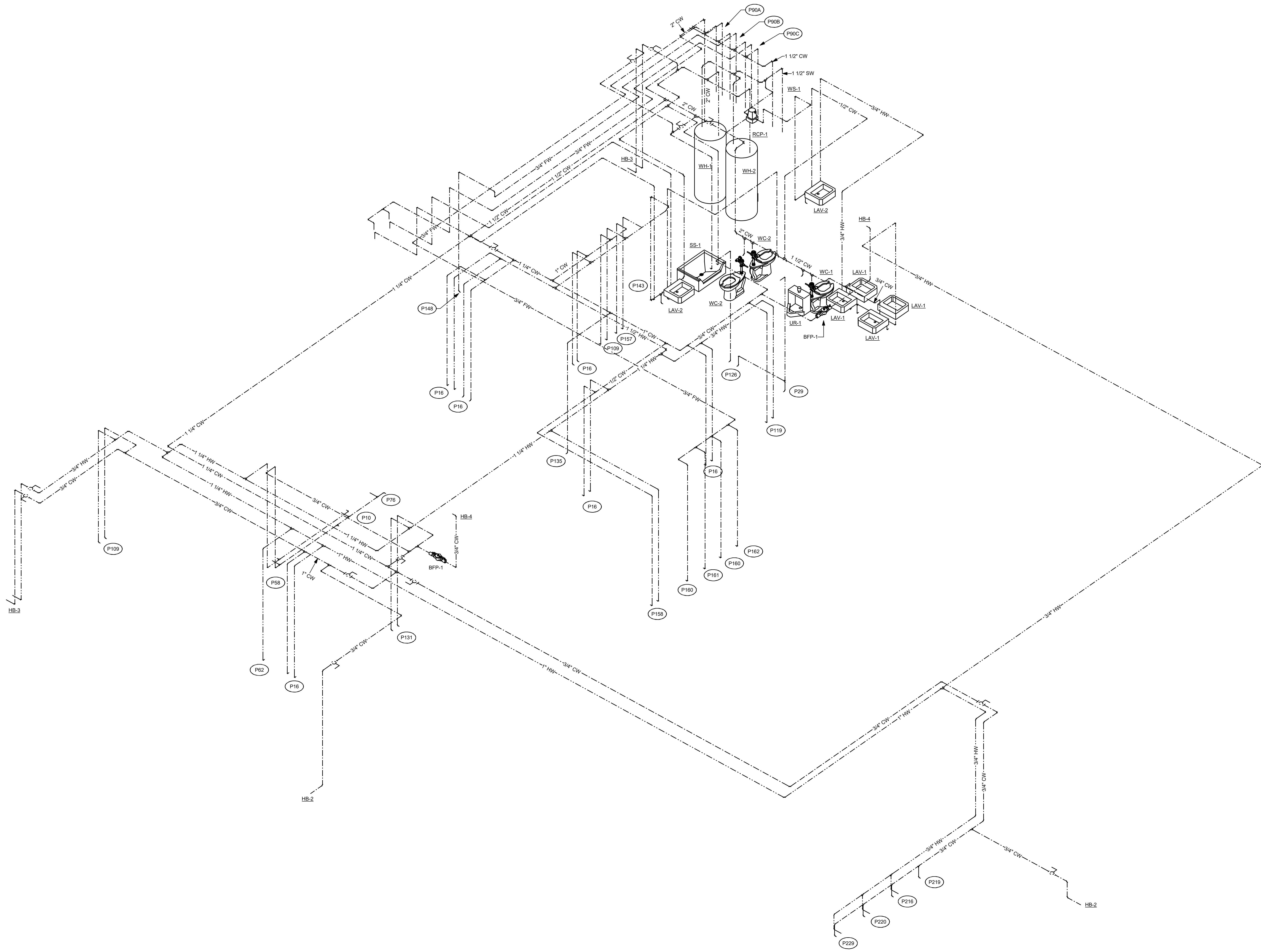
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RIVERVIEW, FL

Drawing:
PLUMBING ROOF
PLAN

P3.1





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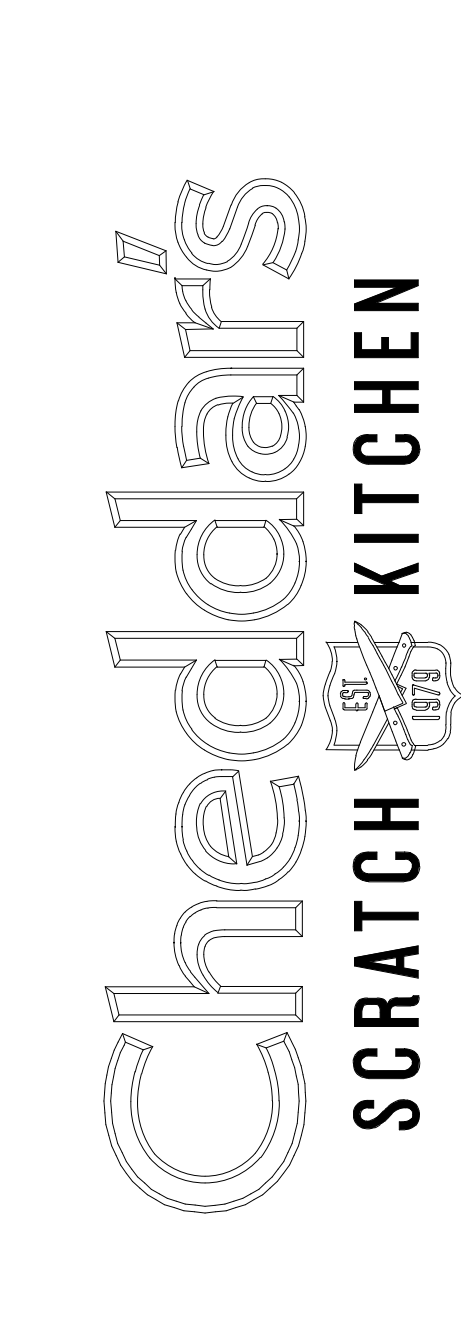
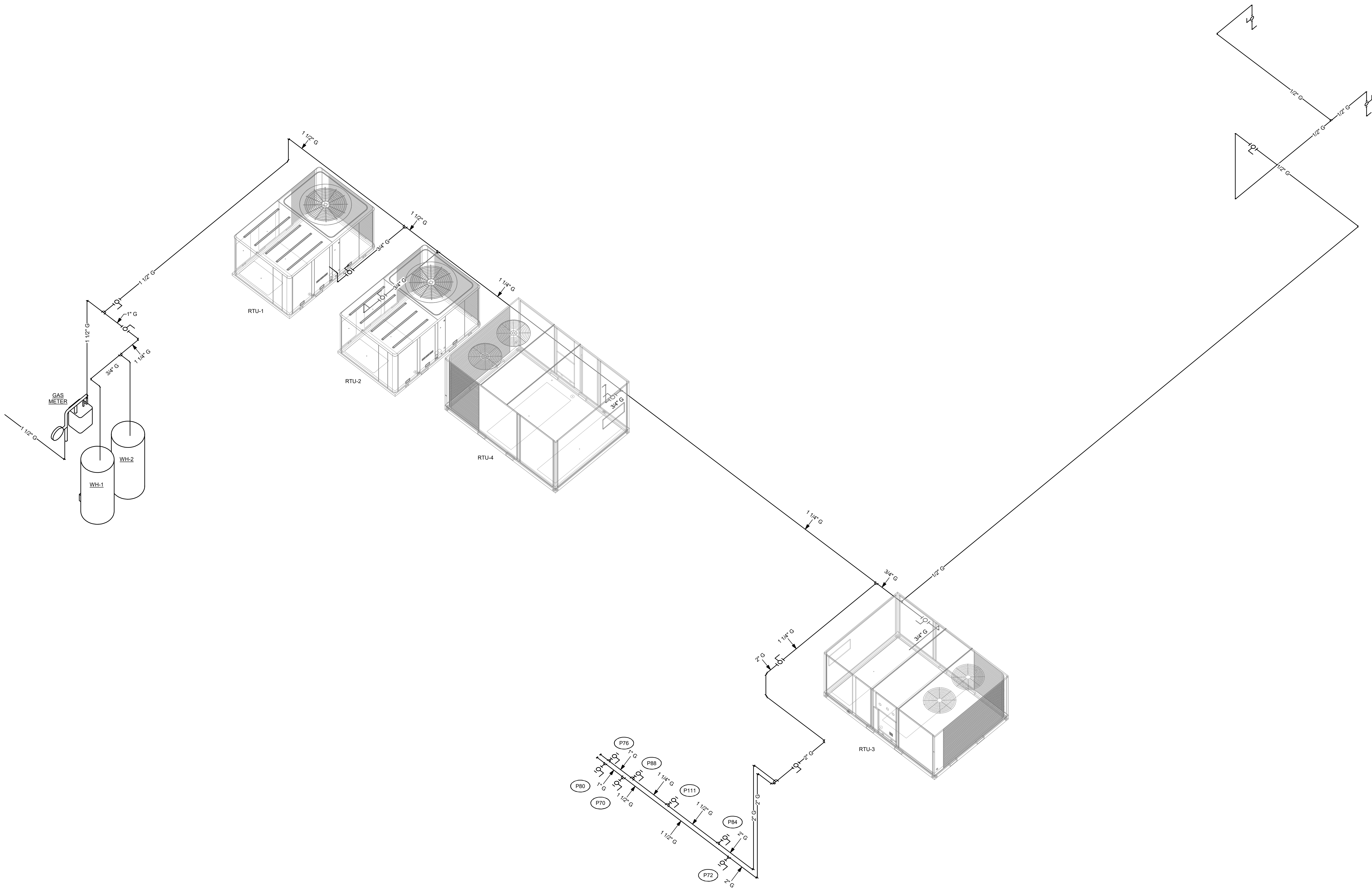
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RIVERVIEW, FL

Drawing:
PLUMBING WATER
ISOMETRIC RISER
DIAGRAM

P4.2



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Drawing:
PLUMBING GAS
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DIAGRAM

P4.3