

PROJECT SUMMARY

THE SCOPE OF WORK PROPOSED UNDER THIS PERMIT INCLUDES ALL CONSTRUCTION NECESSARY FOR THE SHELL CONSTRUCTION OF A BUILDING (2,562 SQ.FT. - ENCLOSED) FOR ASSEMBLY OCCUPANCY. PLANS FOR CONSTRUCTION INCLUDE ALL STRUCTURAL COMPONENTS (EXCEPT FLOOR SLAB) AND FINISHES THAT COMPRISE THE BUILDING ENVELOPE. PLANS ALSO INCLUDE THE NECESSARY UTILITY STUB-INS FOR SANITARY SEWER AND DOMESTIC WATER AND ELECTRICAL POWER. IT IS ANTICIPATED THAT THE STARBUCKS INTERIOR FINISH-OUT WILL BE CONSTRUCTED SIMULTANEOUSLY, UNDER SEPARATE PERMIT. SAID PLANS AND CONSTRUCTION WILL INCLUDE PERMANENT POWER, EXIT/EMERGENCY LIGHTING, ETC.

UNDER THE TERMS OF THE LEASE WITH STARBUCKS, THE LANDLORD WILL BE RESPONSIBLE FOR ADDITIONAL WORK INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF ROOFTOP HVAC UNITS. IN ORDER TO FULLY AND ACCURATELY DOCUMENT SUCH WORK, PLANS FOR STARBUCKS INTERIOR FINISH-OUT MUST BE COMPLETED (CURRENTLY IN PRODUCTION BY OTHERS). UPON RECEIPT OF TENANT PLANS, REVISIONS WILL BE MADE TO THESE SHELL DOCUMENTS WHICH WILL FULLY DOCUMENT ALL LANDLORD RESPONSIBILITIES. ACCORDINGLY, REVISIONS WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. IT IS THE LANDLORD'S INTENT TO BEGIN THE PROCESS FOR REVIEW AND PERMIT OF THE SHELL DOCUMENTS PROVIDED HEREIN IN ORDER TO MEET OBLIGATIONS FOR DELIVERY OF THE BUILDING.

THE ABOVE-MENTIONED CONSTRUCTION DRAWINGS FOR STARBUCKS INTERIOR FINISH-OUT SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL AND PERMIT PRIOR TO CONSTRUCTION (BY OTHERS).

FLORIDA PRODUCT DATA INDEX

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	FL APPROVAL NO.	DATE APPROVED
PANEL WALLS	ALUM STOREFRONT (IMPACT)	YKK AP AMERICA	FL-18262	06/08/21
PANEL WALLS	EXTERIOR INSULATION AND FINISH SYSTEM	DRYVIT SYSTEMS, INC.	FL-380841	02/21/22
EXTERIOR DOORS	ALUM ENTRANCES (IMPACT)	YKK AP AMERICA	FL-185541	02/08/22
EXTERIOR DOORS	COMMERCIAL STEEL DOORS	CECO DOOR PRODUCTS	FL-4553-R8	12/10/20
ROOFING	SINGLE-PLY ROOFING SYSTEMS (TPO)	FREESTONE BLDG. PRODUCTS CO.	FL-10264-R16	12/16/20
WINDOWS	PASS THRU	READY ACCESS	FL-51021	10/18/20
STRUCTURAL COMPONENT	PRODUCT INTRODUCED AS A RESULT OF NEW TECH	CAST-CRETE USA, INC.	FL-68914	08/12/21

THE PRODUCTS LISTED ABOVE ARE THE BASIS OF DESIGN

THE CONTRACTOR SHALL MAKE AVAILABLE TO THE BUILDING INSPECTOR DOCUMENTATION NECESSARY TO VERIFY THAT ALL COMPONENTS REQUIRING PRODUCT APPROVAL PER FS 559.842 ARE IN COMPLIANCE WITH PRODUCT APPROVAL INSTALLATION REQUIREMENTS



STARBUCKS SHELL CONSTRUCTION

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PROJECT CODE DATA

APPLICABLE CODES

- FLORIDA BUILDING CODE-BUILDING (7TH EDITION)
- FLORIDA BUILDING CODE-ACCESSIBILITY (7TH EDITION)
- FLORIDA BUILDING CODE-ENERGY CONSERVATION (7TH EDITION)
- FLORIDA BUILDING CODE-FUEL GAS (7TH EDITION)
- FLORIDA BUILDING CODE-MECHANICAL (7TH EDITION)
- FLORIDA BUILDING CODE-PLUMBING (7TH EDITION)
- FLORIDA FIRE PREVENTION CODE (7TH EDITION)
- NATIONAL ELECTRIC CODE (2017 EDITION)

BUILDING STATISTICS

OCCUPANCY	GROUP (A-2) ASSEMBLY					
CONSTRUCTION TYPE	TYPE VB, UNPROTECTED					
FIRE SPRINKLERED	NO					
FIRE ALARM	NO					
ALLOWABLE AREA	6,000 SQ.FT. PER FLOOR					
PROPOSED AREA	2,562 SQ.FT. (ENCLOSED) ± 331 SQ.FT. (COVERED OUTDOOR SEATING) = 2,893 SQ.FT. (UNDER ROOF)					
NO. OF STORIES	1 ALLOWED / 1 PROPOSED					
PROPOSED HEIGHT	40'-0" ALLOWED / 19'-4" (TOP OF PARAPET)					
OCCUPANT LOAD	OCCUPANT LOAD = 72 (PER TENANT'S PLAN & CALCULATED LOAD) OCCUPANT LOAD BASED ON MOST RESTRICTIVE VALUES FROM BOTH THE BUILDING AND FIRE CODE. AREAS BASED ON TENANT'S FIXTURE PLAN. THE OCCUPANT LOAD WILL BE FULLY DESCRIBED IN THE TENANT'S INTERIOR FINISH-OUT DRAWINGS TO BE SUBMITTED UNDER SEPARATE PERMIT.					
MAXIMUM TRAVEL DISTANCE	200' (UNSPRINKLERED)					
MAX. DEAD END CORRIDOR	20' (UNSPRINKLERED)					
EGRESS WIDTH REQUIRED	.2' PER OCCUPANT = .2' X 72 = 14.4'					
EGRESS WIDTH PROVIDED	150" (THREE EXITS)					
MINIMUM CORRIDOR WIDTH	44' REQUIRED, NOT APPLICABLE, CORRIDORS TO BE PROVIDED BY TENANT UNDER SEPARATE PERMIT					
MINIMUM STAIR WIDTH	NOT APPLICABLE, SINGLE STORY BUILDING PROPOSED					
FIRE RATINGS-TABLE 601	PRIMARY STRUCT. FRAMEWORK 0 BEARING WALLS 0 EXTERIOR WALLS AND OPENINGS (SEE BELOW) FIRE DIVISION WALLS N/A INTERIOR BEARING WALLS 0 FLOOR CONSTRUCTION N/A ROOF CONSTRUCTION 0					
TABLE 602 - FIRE RESISTANCE RATINGS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE						
	SEPARATION DISTANCE	FIRE RATING	WALL OPENING AREA	% OPENINGS ALLOWED	% OPENINGS PROPOSED	* WHERE SEPARATION FROM PROPERTY LINES EXCEEDS 30 FEET, THERE ARE NO LIMITS FOR UNPROTECTED WALL OPENINGS. CALCULATIONS FOR WALL AREA, OPENING AREA AND PROPOSED OPENING PERCENTAGES NOT PROVIDED IN SUCH INSTANCES
EAST	> 30'	0	#	#	NL	#
NORTH	> 30'	0	#	#	NL	#
WEST	> 30'	0	#	#	NL	#
SOUTH	> 30'	0	#	#	NL	#
MIN. FIRE RESISTANCE OF WALLS, PARTITIONS AND OPNG PROTECTIVES						
SHAFT ENCLOSURES	NOT APPLICABLE					
EXIT ACCESS CORRIDORS	NOT APPLICABLE					
TENANT SEPARATION	NOT APPLICABLE					
OCCUPANCY SEPARATION	NOT APPLICABLE					
FLOOR PENETRATIONS	NOT APPLICABLE					
MINIMUM PLUMBING FIXTURES	TOILET ROOMS AND PLUMBING FIXTURES ARE NOT INCLUDED IN THE PROPOSED SCOPE OF WORK (SHELL CONSTRUCTION ONLY). THESE WILL BE PROVIDED BY THE TENANT UNDER SEPARATE PERMIT.					
	CONSTRUCTION DRAWINGS FOR THE INTERIOR FINISH-OUT DOCUMENTS SHALL BE PROVIDED BY THE TENANT AND SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL AND PERMIT PRIOR TO CONSTRUCTION.					

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN A FIRST CLASS, WORKMANLIKE MANNER ACCORDING TO BEST TRADE PRACTICES. MATERIALS AND EQUIPMENT SHALL BE NEW, AND ALL CONSTRUCTION SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION AND/OR OPENING OF THE DEMISED PREMISES FOR BUSINESS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES, DEPOSITS, ETC.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS OF THE SITE. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING W/ CONSTRUCTION.
- TEMPORARY ELECTRIC POWER AND LIGHTING WILL BE PROVIDED AS REQUIRED. THE TEMPORARY SERVICE MUST MEET ALL APPLICABLE CODE AND SAFETY REQUIREMENTS.
- THE GENERAL CONTRACTOR SHALL PROPERLY PROTECT THE WORK FOR PUBLIC SAFETY AND AGAINST ACCIDENTS, WEATHER OR ANY OTHER HAZARD WITH LIGHTS AND GUARD RAILS OR BARRICADES AS APPLICABLE.
- ALL EXITS SHALL BE MAINTAINED AND SHALL BE OPERABLE FROM THE INSIDE W/OUT SPECIAL KNOWLEDGE OR EFFORT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND SIZE OF OPENINGS FOR ALL TRADES AND SHALL COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONSTRUCTION DOCUMENTS, INCLUDING SHOP DRAWINGS REVISED BY THE ARCHITECT.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY AND REQUIRED PERMITS, FEES, DEPOSITS, ETC.
- A FIRE EXTINGUISHER IS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL MAKE ALL PERSONNEL AWARE OF ITS LOCATION.
- THE CONTRACT DOCUMENTS HAVE BEEN PREPARED TO BE COMPLEMENTARY. WHAT IS REQUIRED BY THE DRAWINGS SHALL BE REQUIRED BY THE SPECIFICATIONS, AND CONVERSELY. IN THE CASE OF DISCREPANCIES BETWEEN THE TWO DOCUMENTS CONCERNING QUALITY AND/OR QUANTITY, THE CONTRACTOR SHALL INCLUDE THE BETTER QUALITY AND/OR GREATER QUANTITY UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT. WHERE SPECIFICATIONS HAVE BEEN OMITTED FOR PARTICULAR ITEM(S), THE CONTRACTOR SHALL EMPLOY THE HIGHEST STANDARDS ESTABLISHED BY THE MANUFACTURER OF THE ITEM(S) AS THE GUIDELINES FOR PRODUCT HANDLING, INSTALLATION OR ERECTION AND PROTECTION OF THE COMPONENT ONCE IN PLACE.

PERMIT NOTES

SIGNAGE:

SIGNAGE DEPICTED IN THESE DOCUMENTS ARE FOR COORDINATION PURPOSES ONLY. IT SHALL BE UNDERSTOOD THAT ALL EXTERIOR BUILDING MOUNTED AND SITE SIGNAGE WILL BE PERMITTED SEPARATELY, EITHER BY THE LANDLORD'S SIGN VENDOR OR BY INDIVIDUAL TENANT SIGN VENDORS. AT THAT TIME, COMPLETE DETAILS INCLUDING, BUT NOT LIMITED TO, SIGN FABRICATION, SIGN INSTALLATION, SIGN AREA AND QUANTITIES, ETC. WILL BE SUBMITTED FOR PERMIT REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.

SHOP DRAWINGS:

IT SHALL BE UNDERSTOOD THAT ENGINEERED SHOP DRAWINGS FOR PRE-ENGINEERED ROOF JOISTS SHALL BE PROVIDED BY MANUFACTURER AND SUBMITTED TO THE BUILDING DEPARTMENT BY THE GENERAL CONTRACTOR. SAID SHOP DRAWINGS SHALL CONTAIN A STATEMENT FROM THE PROFESSIONAL OF RECORD STATING THAT HE/SHE HAS REVIEWED THE DRAWINGS AND THAT DRAWINGS ARE IN COMPLIANCE WITH HIS/HER DESIGN BY NAMING THE MANUFACTURER, JOB NUMBER AND DATE OF THE PLANS.

PERMITS:

SEPARATE PERMITS WILL BE REQUIRED FOR THE DUMPSTER ENCLOSURE, AWNINGS AND PRE-ENGINEERED CANOPIES. SAID PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF WORK ON ANY OF THESE COMPONENTS.

FINISH NOTES

- SUBCONTRACTORS MUST EXAMINE EACH INSTALLATION AREA FOR CONDITIONS THAT MAY INTERFERE WITH PROPER, TIMELY, OR ACCEPTABLE COMPLETION OF THE WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR OF UNACCEPTABLE CONDITIONS BEFORE FINISH MATERIAL INSTALLATION. PERFORMANCE OF FINISH WORK INDICATES ACCEPTANCE OF ALL SUBSTRATE CONDITIONS AND ASSUMPTION OF RESPONSIBILITY FOR COMPLIANCE WITH MATERIAL INSTALLATION QUALITY STANDARDS.
- CONTRACTOR TO PREPARE FLOOR SUBSTRATE CONDITIONS (WHERE APPLICABLE) AS NECESSARY WHERE DIFFERENT MATERIALS ABUT TO ENSURE SMOOTH AND GRADUAL TRANSITION, FREE FROM TRIP HAZARD OR EXCESSIVE ELEVATION CHANGE. PROVIDE TRANSITION EDGES AS APPROPRIATE. SUBMIT ACCESSORY OPTIONS, INCLUDING AVAILABLE FINISH AND COLOR SELECTIONS FOR APPROVAL.
- WHERE NO FLOOR FINISH IS REQUIRED, CONTRACTOR SHALL PROVIDE A CLEAN SMOOTH SURFACE FOR FINISHES PROVIDED BY TENANT.
- FOR PAINTED / STAINED SURFACES, ADHERE TO INDUSTRY STANDARDS AND USE PRIMERS, PAINT, STAINS, AND OTHER PRODUCTS AS APPROPRIATE FOR THE CONDITIONS AND SUBSTRATES TO WHICH FINISHES ARE BEING APPLIED.
- ALL GNB SURFACES THAT ARE NOT TO BE PAINTED UNDER THE SCOPE OF THIS CONTRACT (PAINT BY TENANT) ARE TO BE TAPED, MUDDED AND SANDED. WALLS SHALL BE LEFT IN A CONDITION READY FOR TEXTURE AND PAINT BY TENANT.
- ACCEPTABLE PAINT MANUFACTURERS ARE BENJAMIN MOORE OR SHERWIN WILLIAMS. REFER TO SPECIFICATIONS FOR TYPE OF PAINT.
- ALL COLOR SELECTIONS, IF NOT INDICATED ON PLANS, SHALL BE MADE BY THE TENANT FROM THE MANUFACTURER'S STANDARD SELECTIONS PROVIDED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

ALL WALL AND CEILING FINISHES SHALL COMPLY WITH FLORIDA FIRE PREVENTION CODE SECTION 10.2.3 AND SHALL BE CLASS A OR B IN EXITS AND ENCLOSED CORRIDORS FURNISHING ACCESS TO EXITS; AND CLASS A, CLASS B OR CLASS C IN OFFICES. INTERIOR FLOOR FINISHES SHALL COMPLY WITH FLORIDA FIRE PREVENTION CODE SECTION 10.2.7 AND SHALL BE CLASS I OR CLASS II IN CORRIDORS AND EXITS

PROJECT TEAM

DEVELOPER

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HOLIDAY, FLORIDA 34690
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ACG PROFESSIONAL ENGINEERING
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LUTZ, FLORIDA 33558-8049
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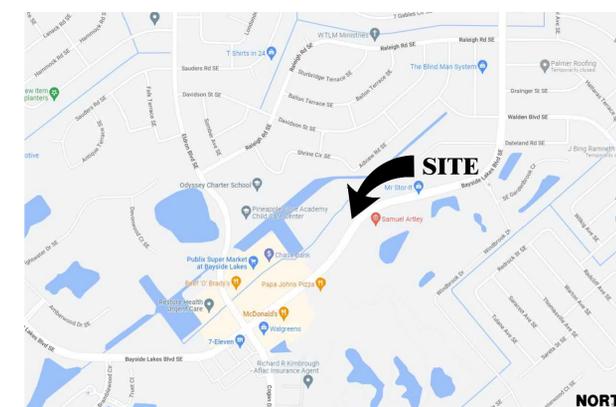
ELECTRICAL ENGINEER

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WIND DESIGN CRITERIA

- ULTIMATE WIND SPEED = 150 MPH (FBC FIGURE 1609.3(1))
- WIND EXPOSURE 'C'
- BUILDING RISK CATEGORY II (PER FBC TABLE 1604.5)
- INTERNAL PRESSURE COEFFICIENT (G_{cp}) = +/- 0.18, TOTALLY ENCLOSED (PER ASCE 7-16)
- COMPONENTS AND CLADDING - REFER TO STRUCTURAL DRAWINGS FOR WIND DESIGN CRITERIA

VICINITY MAP



DRAWING INDEX

SHT. NO.	DRAWING TITLE	REVISION LOG
A0	INDEX, VICINITY MAP AND NOTES	NO DATE SHEETS AFFECTED
CIVIL, LANDSCAPE AND IRRIGATION PLANS HAVE BEEN SUBMITTED UNDER SEPARATE PERMIT		
ARCHITECTURAL		
A0.1	SPECIFICATIONS	
A0.2	SPECIFICATIONS	
A0.3	KEYNOTE SCHEDULE	
A5.1	ARCHITECTURAL SITE PLAN	
A5.2	MISCELLANEOUS SITE DETAILS	
A1.0	FLOOR PLAN AND NOTES	
A1.1	ROOF PLAN	
A1.2	ROOF DETAILS	
A1.2A	ROOF DETAILS	
A1.3	CANOPY AND AWNING DETAILS	
A2.0	REFLECTED CEILING PLAN	
A3.0	EXTERIOR ELEVATIONS AND EXTERIOR FINISH SCHEDULE	
A3.1	EXTERIOR ELEVATIONS	
A4.0	FRAME OPENING SCHEDULE	
A4.1	FRAME OPENING DETAILS	
A4.2	ENLARGED PLAN DETAILS	
A5.0	WALL SECTIONS	
A5.1	WALL SECTIONS	
A5.2	WALL SECTIONS	
STRUCTURAL		
S0.1	STRUCTURAL NOTES	
S1.1	FOUNDATION PLAN	
S2.1	ROOF FRAMING PLAN	
S3.1	WALL SECTIONS	
S4.1	SECTIONS AND DETAILS	
S4.2	SECTIONS AND DETAILS	
MECHANICAL		
M1.0	MECHANICAL SPECIFICATIONS	
M2.0	MECHANICAL ROOF PLAN	
M3.0	MECHANICAL DETAILS & SCHEDULES	
PLUMBING		
P1.0	PLUMBING NOTES AND SPECIFICATIONS	
P2.0	PLUMBING FLOOR PLAN	
P3.0	PLUMBING SCHEDULES, RISERS AND DETAILS	
ELECTRICAL		
E0.0	ELECTRICAL PROJECT NOTES AND LEGEND	
E1.0	ELECTRICAL SITE PLAN	
E1.1	PHOTOMETRIC SITE PLAN	
E1.2	FIXTURE INFORMATION	
E2.0	LIGHTING AND POWER PLANS	
E3.0	POWER RISER DIAGRAM	
E4.0	ELECTRICAL SPECIFICATIONS	

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

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NO.	DATE	REVISION DESCRIPTIONS

STARBUCKS SHELL CONSTRUCTION
BAYSIDE LAKES BLVD
PALM BAY, FL

12.02.2022
date
22032
comm. no.

INDEX,
VICINITY MAP
AND NOTES

A0

SECTION 01330 - SUBMITTALS

- SECTION 01330 - SUBMITTALS
1.1 GENERAL
1.2 PROCESSES AND RESPONSIBILITIES
1.3 TRANSMITTAL
1.4 DEFERRED SUBMITTALS
1.5 SUBMITTAL REQUIREMENTS
PART 2 - PRODUCTS
PART 3 - EXECUTION

SECTION 02361 - TERMITTE PROTECTION

- SECTION 02361 - TERMITTE PROTECTION
PART 1 - GENERAL
PART 2 - PRODUCTS
PART 3 - EXECUTION
PART 4 - MAINTENANCE

SECTION 06100 - ROUGH CARPENTRY

- SECTION 06100 - ROUGH CARPENTRY
PART 1 - GENERAL
PART 2 - PRODUCTS
PART 3 - EXECUTION
PART 4 - MAINTENANCE

SECTION 07500 - SINGLE-PLY ROOFING (TPO)

- SECTION 07500 - SINGLE-PLY ROOFING (TPO)
PART 1 - GENERAL
PART 2 - PRODUCTS
PART 3 - EXECUTION
PART 4 - MAINTENANCE

SECTION 08100 - ROOF FLOORING

- SECTION 08100 - ROOF FLOORING
PART 1 - GENERAL
PART 2 - PRODUCTS
PART 3 - EXECUTION
PART 4 - MAINTENANCE



TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

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revision descriptions
date

NO

STARBUCKS SHELL CONSTRUCTION
BAYSIDE LAKES BLVD PALM BAY, FL

12.02.2022
date
22032
comm. no.

SPECIFICATIONS

A0.1

KEYNOTE SCHEDULE

NOTES:
 A. THIS LIST IS FOR REFERENCE TO ALL KEYNOTES USED ON ALL SHEETS
 B. NOT ALL NOTES ARE USED ON THE PROJECT

DIVISION 1 - GENERAL

- 1.10 ROOF PARAPET, SEE WALL SECTIONS AND ROOF DETAILS
- 1.20 BUILDING ELEMENT/CONSTRUCTION BEYOND
- 1.21 DASHED LINE INDICATES OUTLINE OF ROOF BEYOND OR ABOVE
- 1.22 RTU BEYOND, SEE ROOF PLAN
- 1.30 PARAPET BREAK FOR ROOF ACCESS, REFER TO ROOF PLAN
- 1.31 PROVIDE BREAK IN TRIM AT DOWNSPOUT LOCATIONS
- 1.40 BULKHEAD OR SOFFIT ABOVE, SEE REFLECTED CEILING PLAN AND/OR WALL SECTIONS
- 1.41 DASHED LINE INDICATES CANOPY OR AWNING ABOVE (OR BELOW AS APPLICABLE). REFER TO WALL SECTIONS AND EXTERIOR ELEVATIONS
- 1.42 OUTLINE OF RTU CURB ABOVE
- 1.50 LINE OF WALL BELOW
- 1.51 DASHED LINE INDICATES LOCATION OF ROOF JOIST / BEAM BELOW. REFER TO WALL SECTIONS AND STRUCTURAL DRAWINGS

DIVISION 2 - SITE CONSTRUCTION

- 2.01 PROPERTY OR LOT LINE, REFER TO CIVIL DRAWINGS
- 2.10 REFER TO CIVIL DRAWINGS FOR ALL PAVEMENT/SURFACING BEYOND BUILDING AND SIDEWALK INCLUDING ALL PAVEMENT MARKINGS, PARKING STRIPPING, HC GRAPHICS, CROSSWALKS AND DIRECTIONAL ARROWS
- 2.20 CONCRETE SIDEWALK, 4" THICK 3,000 PSI W/ 6 X 6, W1.4 X W1.4 W/M. PROVIDE 12" DEEP X 8" WIDE TURNED DOWN EDGE WITH (1) #5 REBAR CONTINUOUS AT PERIMETER. REFER TO ARCHITECTURAL SITE PLAN ON SHEET AS.1 FOR REQUIREMENTS
- 2.21 CONCRETE SIDEWALK, REFER TO SEE CIVIL DRAWINGS FOR EXTENTS
- 2.23 CONCRETE CURB, REFER TO CIVIL DRAWINGS FOR REQUIREMENTS
- 2.25 6" THICK CONCRETE WITH INTEGRAL COLOR (NUMBER CC150/6 AS MANUFACTURED BY INCRETE SYSTEMS) REQUIRED AT DRIVE-THRU LANE AND HC PARKING STALLS, REFER TO ARCHITECTURAL SITE PLAN AND CIVIL DRAWINGS FOR EXTENTS
- 2.27 CONCRETE WHEEL STOP, REFER TO CIVIL DRAWINGS
- 2.30 LANDSCAPE AREA, REFER TO CIVIL AND LANDSCAPE DRAWINGS
- 2.33 LINE INDICATES PVC DRAIN FROM LANDSCAPE AREA THROUGH CURB. DISCHARGE AT FACE OF CURB. REFER TO DETAIL ON SHEET A2
- 2.40 HANDICAP RAMP WITH 1:12 MAXIMUM SLOPE, REFER TO CIVIL DRAWINGS
- 2.41 FLUSH TRANSITION BETWEEN PARKING AND SIDEWALK FOR HANDICAP ACCESS. PROVIDE DETECTABLE WARNING SURFACE WHERE INDICATED
- 2.42 EXPOSED AGGREGATE DETECTABLE WARNING SURFACE. REFER TO CIVIL DRAWINGS. IF NOT SPECIFICALLY INDICATED, PROVIDE LARGE AGGREGATE GRAVEL AASHTO #3 OR #57
- 2.43 PROVIDE CONCRETE PAVERS OVER COMPACTED LIMESTONE BASE. PAVES SHALL BE AS MANUFACTURED BY "TREMONT" 4" THICK PLANK PAVES, COLOR: NATURAL GREY, PATTERN: RUNNING BOND. PROVIDE CLEAR SEALANT. INSTALL 4" WIDE X 18" CONCRETE RIBBON CURB AT PERIMETER
- 2.50 HANDICAPPED PARKING SIGN, REFER TO CIVIL DRAWINGS
- 2.60 BIKE RACK, REFER TO DETAILS ON SHEET AS.1
- 2.62 STEEL PIPE BOLLARD, 6" DIA. SCHEDULE 40 WITH GROUT FILL. PAINT TRAFFIC YELLOW UNLESS OTHERWISE NOTED. REFER TO DETAIL ON SHEET AS.2
- 2.63 STEEL PIPE BOLLARD, 6" DIA. SCHEDULE 40 WITH GROUT FILL. REFER TO DETAIL ON SHEET AS.2
- 2.64 RAILING AT OUTDOOR SEATING AREA. MOUNT ON 6" WIDE X 18" DEEP CONCRETE RIBBON CURB. REFER TO DETAILS ON SHEET AS.2. THE FINAL LAYOUT AND DESIGN SHALL BE COORDINATED WITH TENANT PLANS
- 2.70 MOUNT OR PYLON SIGN, REFER TO SIGNAGE NOTES ON SHEET AS.2. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS
- 2.80 TRANSFORMER ON CONCRETE PAD
- 2.91 10'-0" HIGH PREFINISHED ALUMINUM PRIVACY SCREEN BY SLEKPFENCE OR EQUAL. REFER TO DETAILS ON SHEET AS.1. GENERAL CONTRACTOR SHALL VERIFY THE EXACT CONFIGURATION AND DESIGN WITH TENANT PRIOR TO CONSTRUCTION

DIVISION 3 - CONCRETE

- 3.04 PROVIDE SOLID CONCRETE FILL AT CMU CELLS BELOW FINISHED FLOOR (OR AS SHOWN)
- 3.10 CONTINUOUS CONCRETE FOOTING, REFER TO FOUNDATION PLAN AND DETAILS FOR REQUIREMENTS
- 3.22 SHADED AREA INDICATES CONCRETE SLAB LEAVE-OUT; SLAB BY OTHERS. REFER TO STRUCTURAL FOUNDATION PLAN AND DETAILS
- 3.24 CONCRETE SLAB BY TENANT, REFER TO FOUNDATION PLAN
- 3.25 CONCRETE CAP AT FOUNDATION WALL WHERE STOREFRONT OR DOORS OCCUR ADJACENT TO CONCRETE SLAB LEAVE-OUTS. REFER TO WALL SECTIONS AND STRUCTURAL DRAWINGS
- 3.30 CAST-IN-PLACE CONCRETE BEAM, REFER TO STRUCTURAL DRAWINGS

DIVISION 4 - MASONRY

- 4.10 CONCRETE MASONRY UNIT (CMU), WIDTH AS INDICATED, REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT AND FILLED CELL LOCATIONS
- 4.12 PRECAST CONCRETE LINTEL, GROUT FILLED WITH GROUT FILLED KNOCK-OUT BLOCK ABOVE (AS APPLICABLE). REFER TO STRUCTURAL DRAWINGS FOR EXACT CONFIGURATION AND REINFORCEMENT REQUIREMENTS
- 4.13 CMU KNOCK-OUT BLOCK BOND BEAM, GROUT FILLED. REFER TO STRUCTURAL DRAWINGS FOR EXACT CONFIGURATION AND REINFORCEMENT REQUIREMENTS
- 4.20 THIN BRICK VENEER, REFER TO EXTERIOR FINISH SCHEDULE. PROVIDE THIN BRICK VENEER OVER GALVANIZED WIRE LATH ON BITUMINOUS WATERPROOFING ON CMU.
- 4.50 MASONRY CONTROL JOINT

DIVISION 5 - METALS

- 5.01 AT PERIMETER STUD FURRING, PROVIDE CONTINUOUS TRACK INSTALLED 1/2" ABOVE FINISHED CONCRETE FLOOR SLAB ELEVATION
- 5.02 AT PERIMETER STUD FURRING, PROVIDE 2" X 2" X 3" HIGH 18 GA. CLIP ANGLE FASTENED WITH (2) #10 TEK SCREWS AND (2) 0.145 DIAMETER POWDER DRIVEN FASTENERS. PROVIDE AND INSTALL CLIP ANGLE AT BOTTOM, MIDDLE AND TOP OF STUD
- 5.10 STEEL COLUMN, REFER TO STRUCTURAL DRAWINGS
- 5.11 STEEL BEAM, REFER TO STRUCTURAL DRAWINGS
- 5.12 STEEL ANGLE, REFER TO STRUCTURAL DRAWINGS
- 5.14 H.S.S. FRAMING, REFER TO STRUCTURAL DRAWINGS
- 5.30 METAL ROOF OR FLOOR DECK, REFER TO STRUCTURAL DRAWINGS
- 5.45 7/8" METAL HAT CHANNEL FURRING AT 24" O.C. (VERTICAL)
- 5.50 ALUMINUM ROOF ACCESS LADDER WITH LOCKABLE SECURITY GATE AND CAGE. REFER TO EXTERIOR ELEVATIONS AND DETAIL ON SHEET AS.0
- 5.60 STEEL FRAMED EQUIPMENT SCREEN. REFER TO ROOF PLAN, EXTERIOR ELEVATIONS AND STRUCTURAL DRAWINGS
- 5.80 VERTICAL WALL REINFORCEMENT IN GROUT FILLED CELL, TYP. REFER TO STRUCTURAL DRAWINGS

DIVISION 6 - WOOD AND PLASTICS

- 6.10 PT 2 X WOOD BLOCKING, BUCK OR DRAFT STOP
- 6.11 PT 1 X WOOD BLOCKING OR BUCK
- 6.12 PT WOOD SHIM AS REQUIRED
- 6.15 PT 2 X WOOD PLATE WITH 1/2" DIAMETER ANCHOR BOLTS (6" MINIMUM EMBEDMENT) AT 4'-0" O.C. MAXIMUM. IN LIEU OF SPECIFIED ANCHOR BOLT, 1/4" DIA. X 4" LONG TAPCONS STAGGERED AT 24" O.C. MAY BE PROVIDED FOR PLATE ATTACHMENT. FASTENERS SHALL BE PLACED MINIMUM 2 1/2" FROM EDGE OF WOOD PLATE
- 6.21 5/8" CDX PLYWOOD, REFER TO STRUCTURAL DRAWINGS AS REQUIRED

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

- 7.03 COMPRESSIBLE FILLER (3/4" MAX.) CUT BACK EXCESS BELOW SLAB AND PROVIDE SEALANT BEAD, CONTINUOUS. DO NOT PLUG WEEP HOLES
- 7.04 PROVIDE ROOFTOP WALKWAY PADS AS SHOWN AND AROUND ALL ROOFTOP EQUIPMENT
- 7.07 PROVIDE LIQUID BITUMINOUS DAMP-PROOFING AT PLYWOOD SURFACES PRIOR TO INSTALLATION OF ALUMINUM BREAKMETAL
- 7.08 SEALANT AND BACKER ROD, CONTINUOUS. SEALANT COLOR TO MATCH ADJACENT MATERIAL AS APPLICABLE
- 7.09 SEALANT BEAD, CONTINUOUS. SEALANT COLOR TO MATCH ADJACENT MATERIAL AS APPLICABLE
- 7.10 INSTALL CONTINUOUS SILL FLASHING TO SLAB EDGE AND TURN DOWN. PROVIDE FLASHING END CAPS AT JAMB TERMINATION. SET IN SEALANT
- 7.12 SINGLE-PLY ROOF MEMBRANE OVER (R-25) RIGID INSULATION, REFER TO SPECIFICATIONS
- 7.13 SINGLE-PLY ROOF MEMBRANE FULLY ADHERED TO REAR FACE OF PARAPET (OR CURB). EXTEND FROM TOP OF COUNTERFLASHING (OR ROOF AS APPLICABLE), OVER PARAPET AND TERMINATE BEHIND HOLD DOWN CLEAT
- 7.16 MANUFACTURER APPROVED PLATES FASTENED WITH MANUFACTURER APPROVED FASTENERS
- 7.18 HEAT WELDED SEAM AT SINGLE-PLY MEMBRANE
- 7.30 PREFINISHED ALUMINUM DOWNSPOUT (SIZE AS INDICATED ON ROOF PLAN) WITH STRAPS AT 6'-0" O.C. MAX. REFER TO EXTERIOR ELEVATIONS AND ROOF PLAN. WHERE APPLICABLE, EXTEND BELOW GRADE TO STORM SEWER PER CIVIL DRAWINGS AND PROVIDE CAST TRANSITION BOOT WITH CLEANOUT. J.R. HOE AND SONS A-SERIES. SEE DETAIL ON SHEET AS.1
- 7.32 PREFINISHED ALUMINUM CONDUCTOR HEAD, 16" WIDE X 12" HIGH X 10" DEEP. REFER TO ROOF PLAN AND DETAILS
- 7.33 PREFINISHED ALUMINUM SCUPPER / EMERGENCY OVERFLOW SCUPPER, 1'-0" WIDE X 8" HIGH, UNLESS OTHERWISE NOTED ON ROOF PLAN. REFER TO ROOF PLAN AND DETAILS
- 7.41 HIGH DENSITY EXPANDED POLYSTYRENE TRIM BAND WITH EIFS ACRYLIC FINISH COAT. REFER TO NOTES ON EXTERIOR ELEVATIONS AND EXTERIOR FINISH SCHEDULE
- 7.55 TAPERED INSULATION, WITH 1/2" PER FOOT MINIMUM SLOPE. PROVIDE AT LOCATIONS INDICATED INCLUDING ALL ROOF MOUNTED EQUIPMENT CURBS
- 7.80 PREFINISHED ALUMINUM COPING, SLOPED TO FACILITATE DRAINAGE. PROVIDE WITH COPED SEAMS PER NRCA 'J5 THRU 'J12'. SEE TYP. ROOF DETAILS. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR
- 7.87 MECHANICAL FASTENER WITH NEOPRENE WASHER
- 7.88 FLASHING AT ROOF SIDE OF SCUPPER OPENING
- 7.95 PROVIDE (3) ONE INCH DIAMETER OVERFLOW HOLES

DIVISION 8 - DOORS AND WINDOWS

- 8.01 IN FLORIDA LOCATIONS, ALUMINUM STOREFRONT ENTRANCE SYSTEMS SHALL PER INSTALLED WITH ANCHORS AS STIPULATED IN THE MANUFACTURER'S FLORIDA PRODUCT APPROVAL DATA. REFER TO THE FLORIDA PRODUCT APPROVAL INDEX ON SHEET AD FOR THE APPROPRIATE FLORIDA PRODUCT NUMBER
- 8.04 PREFINISHED ALUMINUM BREAK METAL TO MATCH ALUMINUM STOREFRONT FRAME COMPONENTS FULLY ADHERED TO PLYWOOD WITH EXTERIOR GRADE CONSTRUCTION ADHESIVE
- 8.10 ALUMINUM STOREFRONT SYSTEM, REFER TO FRAME OPENING SCHEDULE
- 8.11 ALUMINUM STOREFRONT ENTRANCE SYSTEM, REFER TO FRAME OPENING SCHEDULE
- 8.12 DRIVE-THRU WINDOW UNIT, REFER TO FRAME OPENING SCHEDULE AND ELECTRICAL DRAWINGS
- 8.20 HOLLOW METAL DOOR AND FRAME, REFER TO FRAME OPENING SCHEDULE. PROVIDE (3) JAMB ANCHORS PER SIDE
- 8.50 ADA COMPLIANT ALUMINUM THRESHOLD, 1/4" HIGH X 4" WIDE X FULL LENGTH OF OPENING. THRESHOLD SHALL HAVE BEVELED EDGES AND SHALL BE RIBBED. SET IN BED OF SEALANT
- 8.57 RAIN DRIP, REFER TO HARDWARE SCHEDULE

DIVISION 9 - FINISHES

- 9.16 PROVIDE 6" 20 GA METAL STUD FURRING WITH R-19 BATT INSULATION AT CAVITY AND 5/8" GMB WITH LEVEL 4 FINISH, PRIMED WHITE. EXTEND ALL FULL HEIGHT TO ROOF DECK
- 9.20 5/8" GYPSUM WALLBOARD (GWB), MOISTURE RESISTANT IS REQUIRED AT ALL PLUMBING WALLS
- 9.40 ACRYLIC (EIFS) FINISH COAT OVER 3/4" CEMENT PLASTER BASE OVER CMU. REFER TO EXTERIOR ELEVATIONS FOR TEXTURE AND COLOR REQUIREMENTS
- 9.42 DIRECT APPLIED EIFS ACRYLIC FINISH COAT AT LOCATIONS OF EXPOSED FOUNDATION OR CMU STEM WALL
- 9.44 CONTROL JOINT IN CEMENT PLASTER "W" SHAPE. CLARK DIETRICH BUILDING SYSTEMS #15 ZINC DOUBLE-V CONTROL JOINT WITH EXPANDED WIRE MESH FLANGES
- 9.46 GNB OR CEMENT PLASTER CORNER BEAD
- 9.47 GNB OR CEMENT PLASTER 'J' MOLD, FINISH TO MATCH WALL OR CEILING SURFACE
- 9.49 CEMENT PLASTER FOUNDATION WEEP SCREED
- 9.52 EXPOSED STRUCTURE, NO CEILING REQUIRED

DIVISION 10 - SPECIALITIES

- 10.10 SIGN LOCATION. SIGN TO BE PERMITTED AND INSTALLED BY TENANT'S SIGN VENDOR. SHELL G.C. SHALL REFER TO ELECTRICAL FOR POWER REQUIREMENTS. PROVIDE 5/8" CDX PLYWOOD SHEATHING IN LIEU OF DENSGLASS SHEATHING WHERE APPLICABLE AT SIGN LOCATIONS. RUN ALL CONDUIT TIGHT TO ROOF STRUCTURE. SEAL ALL WALL PENETRATIONS
- 10.11 TENANT ADDRESS/SPACE NUMBER. PROVIDE MIN. 6" HIGH NUMBERS (IN CONTRASTING COLOR TO BACKGROUND) SO THAT NUMBERS ARE PLAINLY VISIBLE FROM THE STREET
- 10.12 FUTURE PRE-MENU BOARD, FURNISHED AND INSTALLED BY TENANT. GENERAL CONTRACTOR TO LOCATE AND INSTALL CONCRETE FOUNDATION AND CONDUIT PER TENANT PLANS. REFER TO ELECTRICAL DRAWINGS AND FINAL TENANT PLANS FOR REQUIREMENTS
- 10.13 FUTURE SPEAKER POST, FURNISHED AND INSTALLED BY TENANT. GENERAL CONTRACTOR TO LOCATE AND INSTALL CONCRETE FOUNDATION AND CONDUIT PER TENANT PLANS. REFER TO ELECTRICAL DRAWINGS AND FINAL TENANT PLANS FOR REQUIREMENTS
- 10.14 FUTURE MENU BOARD, FURNISHED AND INSTALLED BY TENANT. GENERAL CONTRACTOR TO LOCATE AND INSTALL CONCRETE FOUNDATION AND CONDUIT PER TENANT PLANS. REFER TO ELECTRICAL DRAWINGS AND FINAL TENANT PLANS FOR REQUIREMENTS
- 10.16 FUTURE ORDERING CANOPY, DIGITAL ORDER SCREEN AND DIGITAL CONTROL BOX FURNISHED AND INSTALLED BY TENANT. GENERAL CONTRACTOR TO LOCATE AND INSTALL CONCRETE FOUNDATION AND CONDUIT PER TENANT PLANS. REFER TO ELECTRICAL DRAWINGS AND FINAL TENANT PLANS FOR REQUIREMENTS
- 10.17 FUTURE HEIGHT RESTRICTION BAR, FURNISHED AND INSTALLED BY TENANT. GENERAL CONTRACTOR TO LOCATE AND INSTALL CONCRETE FOUNDATION PER TENANT PLANS. REFER TO ELECTRICAL DRAWINGS AND FINAL TENANT PLANS FOR REQUIREMENTS
- 10.18 TRAFFIC DETECTOR LOOP, FURNISHED BY TENANT AND INSTALLED BY GC. GENERAL CONTRACTOR TO LOCATE AND INSTALL CONDUIT PER TENANT PLANS. REFER TO ELECTRICAL DRAWINGS AND FINAL TENANT PLANS FOR REQUIREMENTS
- 10.19 FUTURE ILLUMINATED DIRECTIONAL SIGN, FURNISHED AND INSTALLED BY TENANT. GENERAL CONTRACTOR TO LOCATE AND INSTALL CONCRETE FOUNDATION AND CONDUIT PER TENANT PLANS. REFER TO ELECTRICAL DRAWINGS AND FINAL TENANT PLANS FOR REQUIREMENTS
- 10.50 KNOX BOX, RECESS MOUNTED. COORDINATE EXACT MODEL AND MOUNTING LOCATION WITH FIRE MARSHAL
- 10.60 FIRE EXTINGUISHER, 5LB 2A-10B-C ON SURFACE MOUNTED WALL BRACKET

DIVISION 11 - EQUIPMENT

- 11.01 DUMPSTER ENCLOSURE, SEE CIVIL DRAWINGS AND DETAILS ON SHEET AS.2

DIVISION 13 - SPECIAL CONSTRUCTION

- 13.01 NEOPRENE COMPRESSIBLE GASKET BETWEEN AWNING FRAME AND WALL PROVIDED AND INSTALLED BY AWNING INSTALLER
- 13.20 ALUMINUM FRAMED AWNING WITH FABRIC COVERING. SEE DETAILS ON SHEET A1.3 AND EXTERIOR FINISH SCHEDULE
- 13.21 PRE-ENGINEERED, COLUMN SUPPORTED ALUMINUM CANOPY, PREFINISHED. SEE DETAILS ON SHEET A1.3
- 13.22 PRE-ENGINEERED SUSPENDED ALUMINUM CANOPY, PREFINISHED. SEE DETAILS ON SHEET A1.3
- 13.25 PRE-ENGINEERED CANOPY COLUMN, PREFINISHED SEE DETAILS ON SHEET A1.3
- 13.30 ALUMINUM TUBE AWNING FRAME, 1 1/2" X 1 1/2". REFER TO DETAIL ON SHEET A1.3 AND EXTERIOR FINISH SCHEDULE
- 13.31 PROVIDE WELDED ALUMINUM CAP PLATE AT ENDS OF ALL ALUMINUM TUBE COMPONENTS
- 13.32 AWNING FASTENER SHALL BE SPECIFIED IN THE AWNING FABRICATOR'S ENGINEERED SHOP DRAWINGS. SEE NOTES AND DETAILS ON SHEET A1.3
- 13.34 ALUMINUM TUBE AWNING FRAME, 1 1/2" X 3". REFER TO DETAILS ON SHEET A1.3 AND EXTERIOR FINISH SCHEDULE
- 13.40 PAPERSTONE (GRAPHITE) DRIVE THROUGH WINDOW SHELF AND STAINLESS STEEL SUPPORT BRACKETS, INSTALL CENTERED ON WINDOW. SHELF BRACKETS TO BE SUPPLIED BY READY ACCESS WINDOW MANUFACTURED AND INSTALLED BY GENERAL CONTRACTOR
- 13.50 ALUMINUM FRAMED AWNING WITH STANDING SEAM ROOFING. SEE DETAILS ON SHEET A1.3 AND EXTERIOR FINISH SCHEDULE

DIVISION 15 - MECHANICAL

- 15.10 ROOFTOP HVAC UNIT AND CURB. SEE ROOF PLAN, MECHANICAL AND STRUCTURAL DRAWINGS. REFER TO CURB DETAIL ON SHEET A1.2A. ALL RTUs TO BE LOCATED 10'-0" MINIMUM FROM PARAPET WALLS. COORDINATE RTU LOCATIONS WITH ROOF FRAMING PLAN (EXACT LOCATIONS MAY BE SHIFTED TO ALIGN WITH ROOF FRAMING LAYOUT)
- 15.13 ROOF MOUNTED STAND/RACK FOR CONDENSING UNIT, REFER TO DETAIL ON SHEET A1.2A AND TO STRUCTURAL AND MECHANICAL DRAWINGS
- 15.41 GREASE INTERCEPTOR, REFER TO CIVIL AND PLUMBING DRAWINGS
- 15.50 VENT THRU ROOF (VTR), REFER TO PLUMBING DRAWINGS AND DETAIL ON SHEET A1.2A. LOCATE VTR SO 15'-0" MINIMUM FROM RTU FRESH AIR INTAKES. COORDINATE IN FIELD
- 15.51 ROOF MOUNTED EXHAUST FAN, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS
- 15.64 PROVIDE RECESSED, FROST-FREE HOSE BIBB IN KEYED BOX. REFER TO PLUMBING DRAWINGS. VERIFY LOCATION WITH STARBUCKS REPRESENTATIVE PRIOR TO ROUGH-IN

DIVISION 16 - ELECTRICAL

- 16.02 PROVIDE JUNCTION BOX FOR CEILING FAN TO BE PROVIDED BY TENANT, REFER TO ELECTRICAL DRAWINGS
- 16.10 LOCATION OF ELECTRIC SERVICE AND HOUSE PANEL. REFER TO ELECTRICAL DRAWINGS. WHERE APPLICABLE, PROVIDE 5/8" CDX PLYWOOD SHEATHING IN LIEU OF DENSGLASS SHEATHING. PAINT ALL EQUIPMENT AND CONDUIT TO MATCH ADJACENT WALL COLOR
- 16.20 ELECTRICAL PANEL, REFER TO ELECTRICAL DRAWINGS. WHERE APPLICABLE, CONFIRM PLACEMENT WITH TENANT
- 16.30 WALL PACK LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- 16.31 DECORATIVE LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- 16.32 RECESS MOUNTED EXTERIOR DOWN LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- 16.33 EMERGENCY LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- 16.34 EXIT SIGN / EMERGENCY LIGHT COMBINATION FIXTURE, REFER TO ELECTRICAL DRAWINGS
- 16.50 POLE MOUNTED SITE LIGHTING FIXTURE, REFER TO ELECTRICAL DRAWINGS. COORDINATE INSTALLATION WITH CIVIL DRAWINGS



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GUY F. FABER
 FL License No. AR0015323

REVISED PER BUILDING PERMIT COMMENTS & TENANT COORD.	NO.	DATE	REVISION DESCRIPTIONS
10.17.2023			

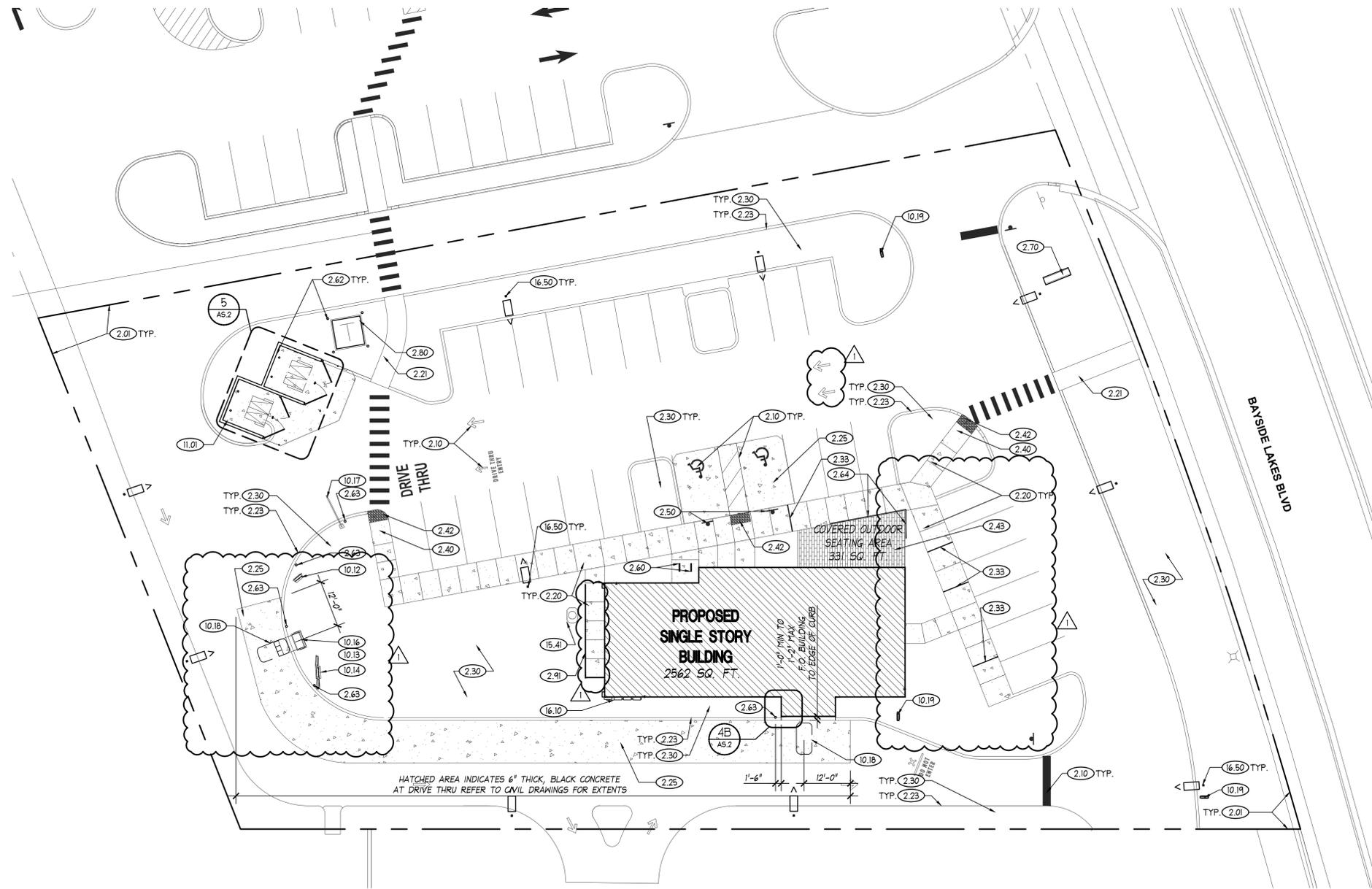
STARBUCKS SHELL CONSTRUCTION
 BAYSIDE LAKES BLVD
 PALM BAY, FL

12.02.2022
 date

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 comm. no.

KEYNOTE SCHEDULE

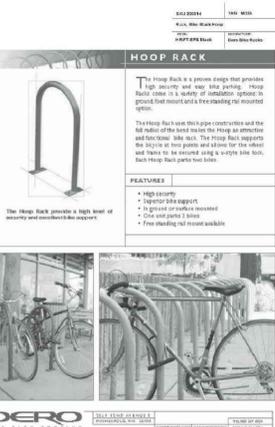
A0.3



ARCHITECTURAL SITE PLAN

SCALE: 1/16" = 1'-0"

NORTH



HOOP RACK - Specifications and Space Use

Product Name:
Hoop Rack
As manufactured by Drive Bike Rack

Bikes Parked per Unit: 2

Height:
15" (actual) 46" (19" ODS)

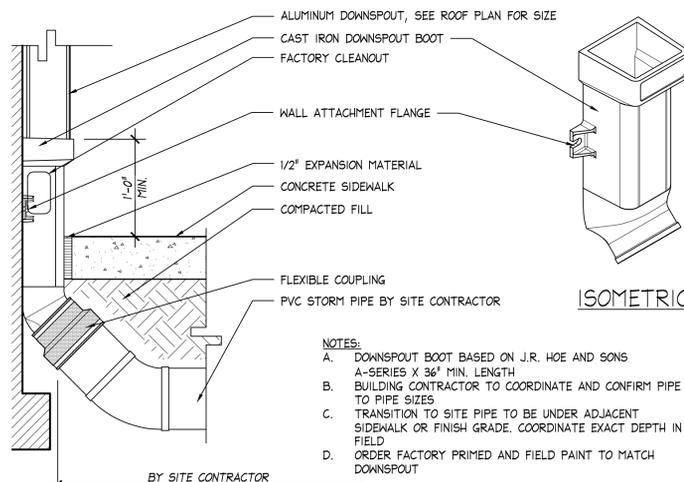
Finishes:
An other fabrication has optional galvanized finish in standard 3075C powder coat colors and a standard anodized aluminum finish.

Our powder coat finish: ensures a high level of adhesion and durability by following these steps:
1. Surface preparation
2. Two primer applications
3. Two color applications
4. Final clear PVC-polyester powder coat

Stainless Steel 304 grade stainless steel powder coated finish in either 1.10" or 1.50" finished diam as a wall rack.
A stainless PVC clip is also available.

Installation Finishes:
As a general note, it is suggested to use concrete base. Specify in ground notes for this option.
A. Down Mount (see 2.5" x 3.0" x 0.37" max with two anchors) (see 2.5" x 3.0" x 0.37" max with two anchors)
B. Wall Mount (see 2.5" x 3.0" x 0.37" max with two anchors)
C. All steel hardware is to be hot-dip galvanized for rust, unless otherwise noted.
D. All steel hardware is to be hot-dip galvanized for rust, unless otherwise noted. Specify in notes for this option.

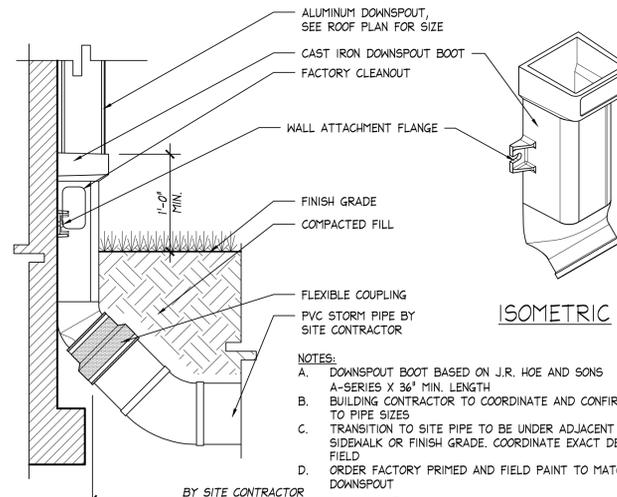
SETBACKS:
Wall Setbacks:
For racks set parallel to a wall:
Minimum: 24"
Recommended: 30"
For racks set perpendicular to a wall:
Minimum: 30"
Recommended: 36"
Bicycle Setbacks:
Minimum: 24"
Recommended: 30"
Street Setbacks:
Minimum: 24"
Recommended: 30"



- NOTES:**
- DOWNSPOUT BOOT BASED ON J.R. HOE AND SONS A-SERIES X 36" MIN. LENGTH
 - BUILDING CONTRACTOR TO COORDINATE AND CONFIRM PIPE TO PIPE SIZES
 - TRANSITION TO SITE PIPE TO BE UNDER ADJACENT SIDEWALK OR FINISH GRADE. COORDINATE EXACT DEPTH IN FIELD
 - ORDER FACTORY PRIMED AND FIELD PAINT TO MATCH DOWNSPOUT

2 DOWNSPOUT CONNECTION DETAILS

SCALE: 1-1/2" = 1'-0"



- NOTES:**
- DOWNSPOUT BOOT BASED ON J.R. HOE AND SONS A-SERIES X 36" MIN. LENGTH
 - BUILDING CONTRACTOR TO COORDINATE AND CONFIRM PIPE TO PIPE SIZES
 - TRANSITION TO SITE PIPE TO BE UNDER ADJACENT SIDEWALK OR FINISH GRADE. COORDINATE EXACT DEPTH IN FIELD
 - ORDER FACTORY PRIMED AND FIELD PAINT TO MATCH DOWNSPOUT

GENERAL NOTES

- SEE REQUIREMENTS FOR EXTERIOR CONCRETE ON THIS SHEET
 - AT THE BUILDING EXTERIOR, THE GC SHALL BE RESPONSIBLE FOR ALL SUB-GRADE ELECTRICAL CONDUIT AND FOUNDATIONS (INCLUDING ANCHOR BOLTS) FOR STARBUCK'S DRIVE-THRU EQUIPMENT AND MISCELLANEOUS SITE ITEMS INCLUDING, BUT NOT LIMITED TO, DIRECTIONAL SIGNAGE, MENU-BOARDS, DETECTOR LOOP, BOLLARDS AND HEIGHT RESTRICTION BAR. REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC REQUIREMENTS FOR CONDUIT RUNS
- THE GC SHALL OBTAIN A COMPLETE AND CURRENT SET OF STARBUCK'S INTERIOR FINISH-OUT PLANS. THOSE DOCUMENTS SHALL GOVERN WHEN DETERMINING PRECISE LOCATIONS FOR STARBUCK'S DRIVE-THRU EQUIPMENT AND MISCELLANEOUS SITE ITEMS. DIMENSIONS REQUIRED TO LOCATE THESE ITEMS HAVE BEEN INTENTIONALLY OMITTED IN THESE CONSTRUCTION DOCUMENTS TO AVOID POTENTIAL CONFLICTS WITH STARBUCK'S CONSTRUCTION DOCUMENTS. IN ADDITION, THE STARBUCK'S INTERIOR FINISH-OUT PLANS WILL CONTAIN FOUNDATION DETAILS (INCLUDING ANCHOR BOLTS) AND SPECIFICATIONS FOR THE DRIVE-THRU EQUIPMENT AND MISCELLANEOUS SITE ITEMS. FOR REASONS SIMILAR TO THOSE STATED ABOVE, THESE DETAILS HAVE BEEN OMITTED FROM THE SHELL DOCUMENTS. WHERE INDICATED, THE FOUNDATIONS (INCLUDING ANCHOR BOLTS) ARE, HOWEVER, TO BE THE RESPONSIBILITY OF THE SHELL GENERAL CONTRACTOR.
- REFER TO CIVIL DRAWINGS FOR THE EXACT DIMENSIONING CONCERNING BUILDING AND SITE LAYOUT EXCEPT ITEMS NOTED ABOVE
 - REFER TO CIVIL DRAWINGS FOR UTILITY SERVICES BEING BROUGHT TO THE BUILDING

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS "TYPICAL (TYP.)" WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS FOR EXTERIOR WALL FINISHES

ALL DOWNSPOUTS EXTENDING TO GRADE SHALL BE CONNECTED TO THE UNDERGROUND STORM SEWER UNLESS OTHERWISE NOTED. REFER TO CIVIL DRAWINGS. A CAST IRON TRANSITION BOOT WITH CLEAN OUT SHALL BE PROVIDED FOR THIS CONNECTION. REFER TO DETAIL ON SHEET AS.1

THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE LOCATIONS OF UNDERGROUND PIPING TO PRECISELY ALIGN WITH ROOF SCUPPERS AND DOWNSPOUTS

REQUIREMENTS FOR EXTERIOR CONCRETE:

DRIVE-THRU LANE:
SHALL BE MINIMUM 6" THICK, 3,000 PSI POURED CONCRETE REINFORCED WITH 6" X 6", #2.8 X #2.8 W/M. REFER TO CIVIL DRAWING FOR GRADING. CONCRETE TO RECEIVE INTEGRAL CONCRETE COLOR, NUMBER C050/6 AS MANUFACTURED BY INCRETE SYSTEMS. INSTALL SAWCUT CONCRETE CONTROL JOINTS, 1/8" WIDE X 1 1/2" DEEP, AT 15'-0" O.C. MAX. EACH MAT (AREA NOT TO EXCEED 225 SQ. FT.).

PERIMETER SIDEWALK: SHALL BE A MINIMUM OF 4" THICK, 3,000 PSI CONCRETE REINFORCED WITH 6" X 6", #1.4 X #1.4 W/M AND 1'-0" DEEP X 8" WIDE THICKENED SLAB EDGE, NATURAL GRAY COLOR. SURFACE TO RECEIVE MEDIUM BROOM FINISH. RETOOL (WITH HAND EDGER) ALL CONTROL JOINTS AND EXPANSION JOINTS AFTER BROOM FINISHING TO ACHIEVE "PICTURE FRAME" IN CONCRETE. THIS SHALL INCLUDE ALL ABUTMENTS TO WALLS, CURBS, COLUMNS, ETC.

SIDEWALK CONTROL JOINTS SHALL BE SEPARATED BY NO MORE THAN 5'-0" IN EITHER DIRECTION WITH PRE-MOLDED EXPANSION JOINTS LOCATED EVERY 20'-0" MAX.

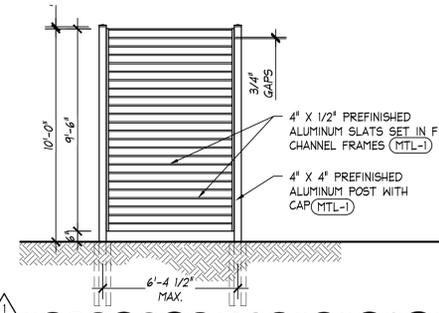
HANDICAP PARKING AREA: SHALL BE MINIMUM 6" THICK, 3,000 PSI POURED CONCRETE REINFORCED WITH 6" X 6", #2.8 X #2.8 W/M. PROVIDE 1/2% SLOPE (2% MAX.) CONCRETE TO RECEIVE INTEGRAL CONCRETE COLOR, NUMBER C050/6 AS MANUFACTURED BY INCRETE SYSTEMS. PROVIDE 18" X 18" CHAMFER AT CORNERS.

DOMESTIC WATER SERVICE REQUIREMENTS:

THE DOMESTIC WATER SERVICE SHALL BE A MINIMUM OF 50 PSI AND NO GREATER THAN 65 PSI DYNAMIC PRESSURE AT THE POINT OF BUILDING ENTRY. IF THE SERVICE STATIC IS OVER 65 PSI, A PRESSURE REDUCING VALVE TO BE PROVIDED BY THE SHELL GENERAL CONTRACTOR. IF THE PRESSURE IS UNDER 50 PSI AT THE POINT OF ENTRY, A BOOSTER PUMP AND SURGE TANK SHALL BE PROVIDED AND INSTALLED. IMMEDIATELY UPON INSTALLATION OF THE WATER SERVICE TO THE BUILDING, THE PLUMBING CONTRACTOR SHALL PERFORM A PRESSURE TEST. SHOULD THE PRESSURES NOT MEET THE ABOVE STATED CRITERIA, THE GENERAL CONTRACTOR SHALL PROVIDE RESULTS TO THE ARCHITECT AT THE EARLIEST POSSIBLE DATE. THE ARCHITECT WILL THEN PROVIDE THE NECESSARY DESIGN REMEDIES TO THE CONTRACTOR FOR PRICING, PERMIT AND CONSTRUCTION

SIGNAGE DEPICTED IN THESE DOCUMENTS ARE FOR COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL DRAWINGS WHERE APPLICABLE.

IT SHALL BE UNDERSTOOD THAT ALL EXTERIOR BUILDING MOUNTED AND SITE SIGNAGE WILL BE PERMITTED SEPARATELY BY THE SIGN VENDOR. AT THAT TIME, COMPLETE DETAILS INCLUDING, BUT NOT LIMITED TO, SIGN FABRICATION, SIGN INSTALLATION, SIGN AREA AND QUANTITIES, ETC. WILL BE SUBMITTED FOR PERMIT REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK



3 PRIVACY SCREEN DETAIL

SCALE: 1/4" = 1'-0"



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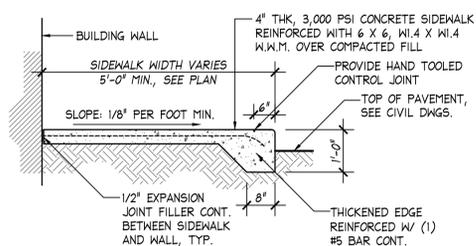
NO.	DATE	REVISION DESCRIPTIONS
10.17.2023		REVISED PER BUILDING PERMIT COMMENTS & TENANT CORRD.

STARBUCKS SHELL CONSTRUCTION
BAYSIDE LAKES BLVD
PALM BAY, FL

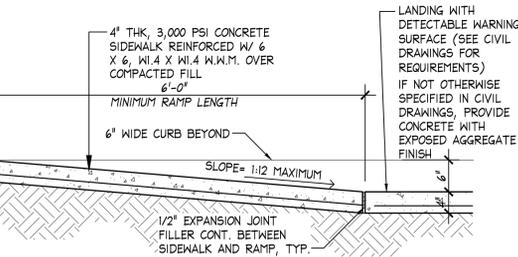
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ARCHITECTURAL SITE PLAN

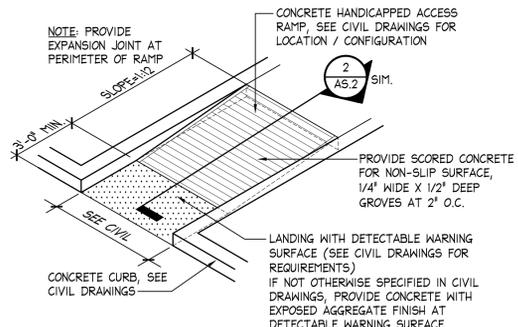
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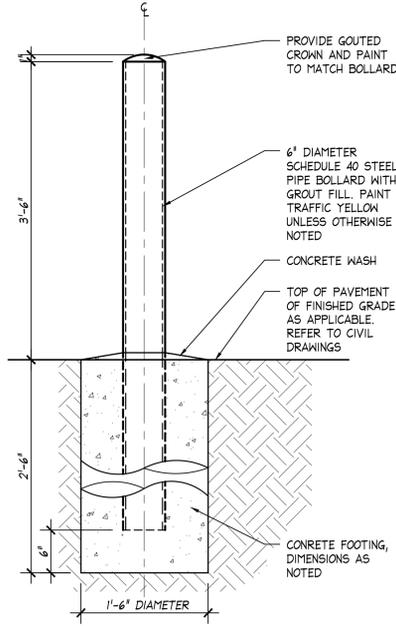
1 CONCRETE SIDEWALK SECTION
SCALE: 1/2" = 1'-0"



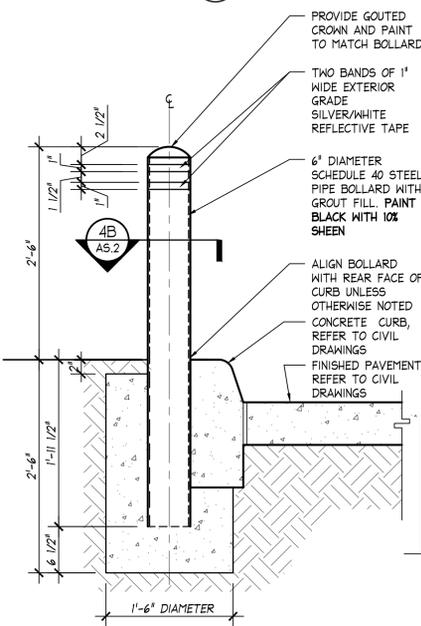
2 HANDICAP RAMP SECTION
SCALE: 3/4" = 1'-0"



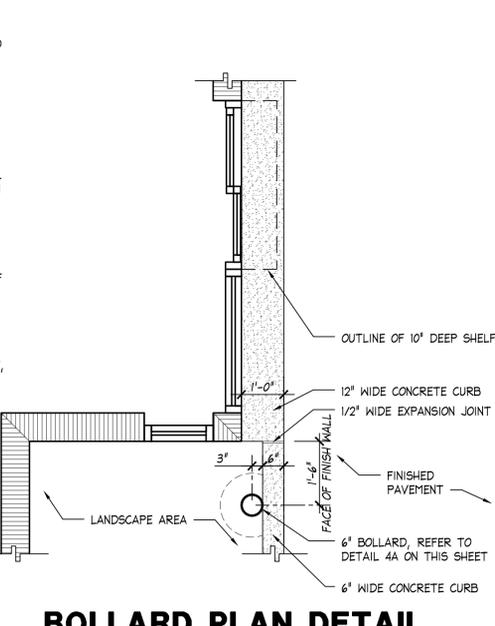
3 HANDICAP RAMP SECTION
NOT TO SCALE



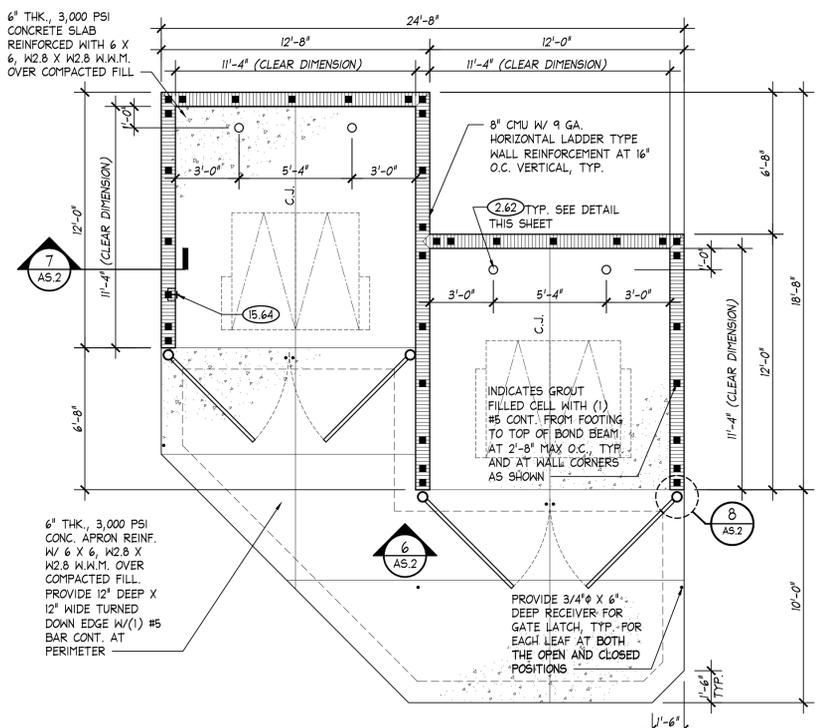
4 BOLLARD DETAIL
SCALE: 1" = 1'-0"



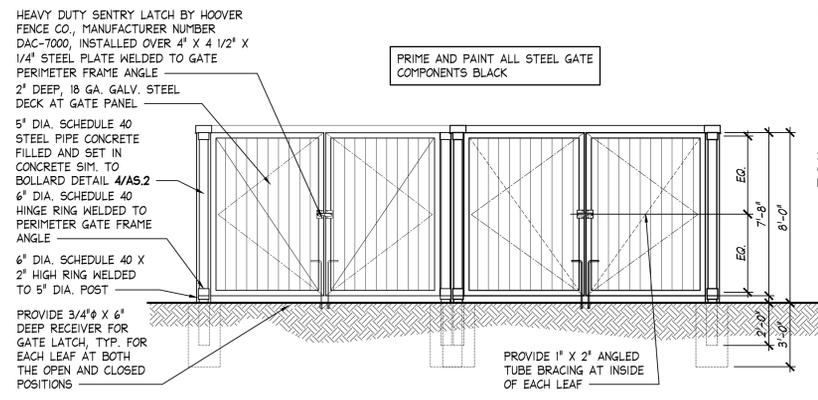
4A BOLLARD DETAIL
SCALE: 1" = 1'-0"



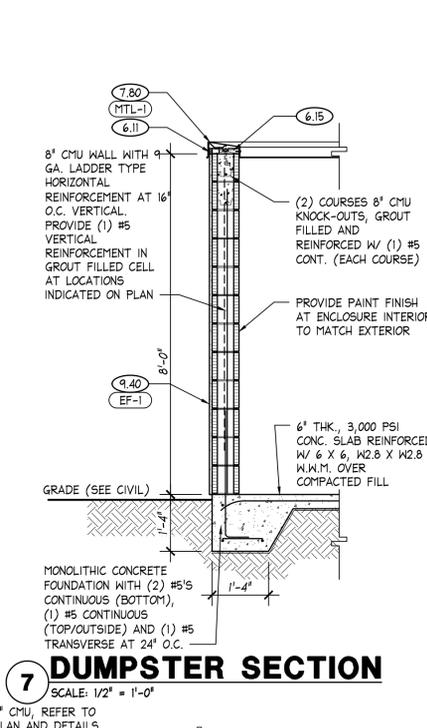
4B BOLLARD PLAN DETAIL AT DRIVE-THRU WINDOW
SCALE: 1/2" = 1'-0"



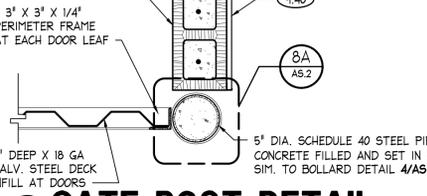
5 DUMPSTER ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"



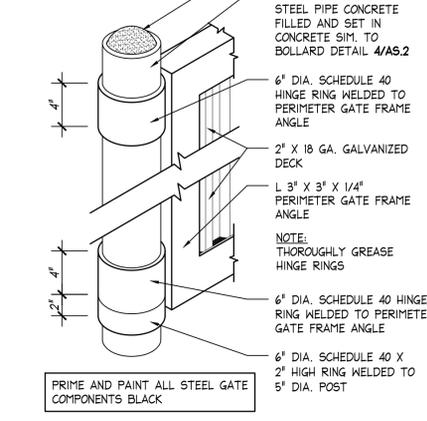
6 DUMPSTER ELEVATION
SCALE: 1/4" = 1'-0"



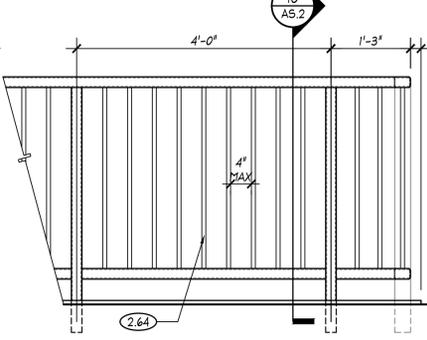
7 DUMPSTER SECTION
SCALE: 1/2" = 1'-0"



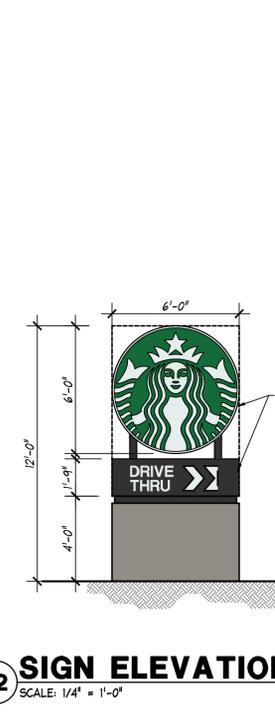
8 GATE POST DETAIL
SCALE: 1" = 1'-0"



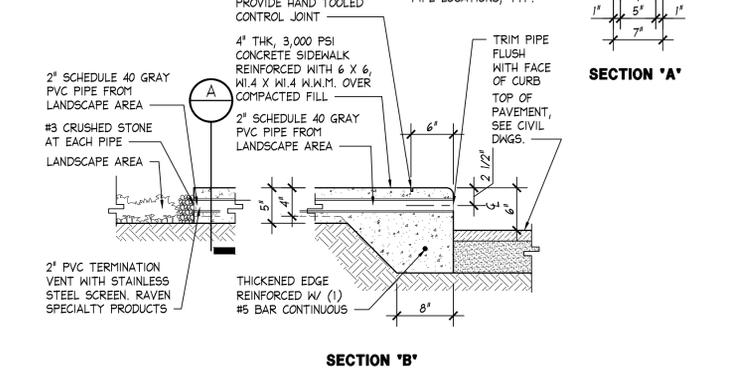
8A GATE POST ISOMETRIC DETAIL
SCALE: 1/2" = 1'-0"



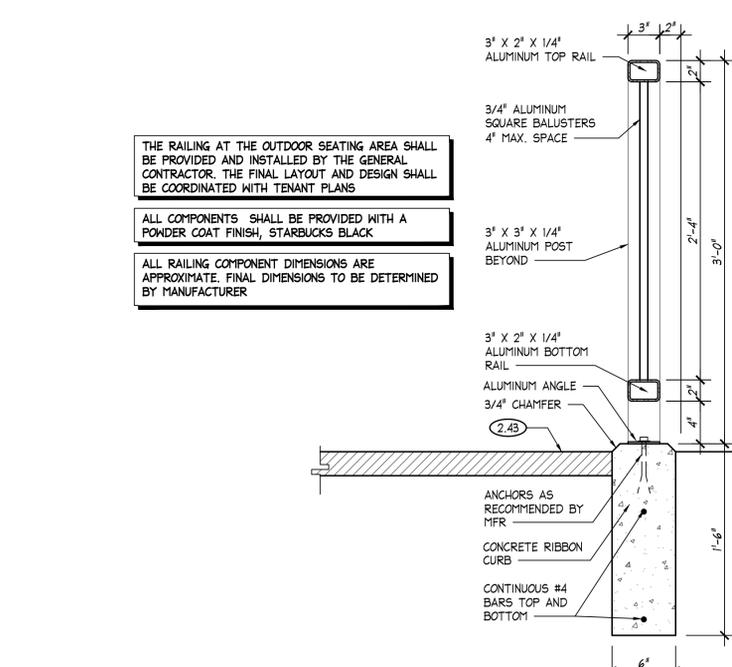
9 RAILING ELEVATION
SCALE: 3/4" = 1'-0"



12 SIGN ELEVATION
SCALE: 1/4" = 1'-0"



11 SIDEWALK DRAIN DETAILS
SCALE: 1" = 1'-0"



10 RAILING SECTION
SCALE: 1 1/2" = 1'-0"

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

GROUND SIGN RESPONSIBILITIES:

THE SHELL GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING ITEMS REGARDING THE GROUND SIGN(S):

- 1) POWER SUPPLY TO THE SIGN AS SPECIFIED IN THE ELECTRICAL DRAWINGS
- 2) THE GROUND SIGN CABINETS (INTERNALLY ILLUMINATED) SHALL BE PERMITTED AND CONSTRUCTED BY A SIGN COMPANY ENGAGED BY THE LANDLORD. GC SHALL LOCATE AND INSTALL CONCRETE FOUNDATION AS SHOWN ON SIGN VENDOR'S PERMIT DRAWINGS

FWH Architects

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Fax 727. 815. 3337

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

GUY F. FABER
FL License No. AR0015323

NO.	DATE	REVISION DESCRIPTIONS

STARBUCKS SHELL CONSTRUCTION

BAYSIDE LAKES BLVD
PALM BAY, FL

12.02.2022
date

22032
comm. no.

MISCELLANEOUS SITE DETAILS

AS.2

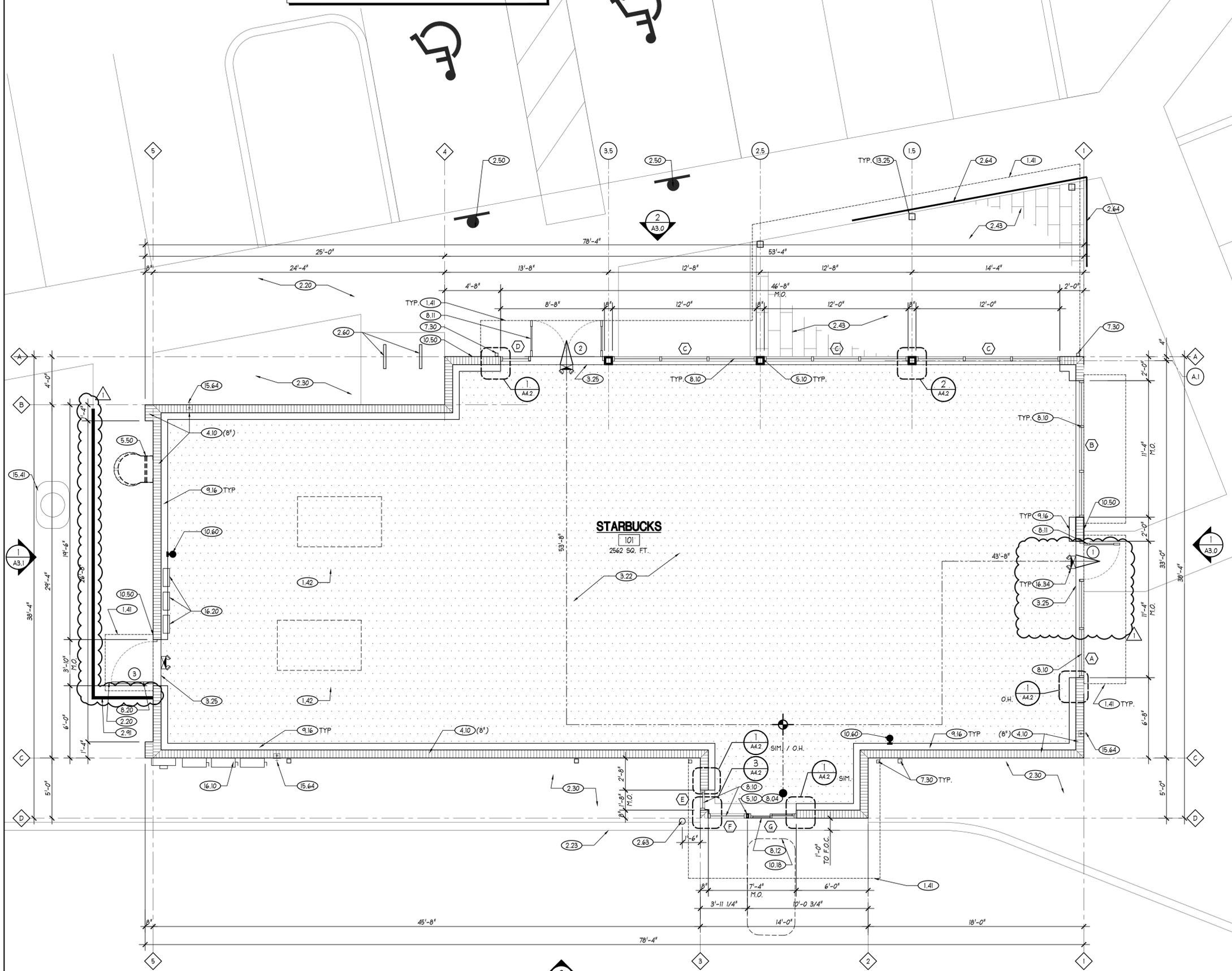
REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

REFER TO EXTERIOR ELEVATIONS FOR WALL SECTION CUT LOCATIONS AND FOR THE EXTERIOR FINISH SCHEDULE

REFER TO ARCHITECTURAL SITE PLAN AND CIVIL DRAWINGS FOR ALL REQUIREMENTS OUTSIDE OF THE BUILDING LINE

CIVIL DRAWINGS SHALL GOVERN ALL FINISHED GRADE ELEVATIONS AND THE DIMENSIONS OF ALL ITEMS OUTSIDE THE BUILDING INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, PARKING STALLS, LANDSCAPE AREAS AND DRIVE AISLES



FLOOR PLAN
SCALE: 1/4" = 1'-0"
NORTH

GENERAL NOTES

- ALL DIMENSIONS ARE TO FINISHED FACE OF GNB PARTITIONS, FACE OF CMU AND CENTERLINE OF COLUMNS UNLESS OTHERWISE INDICATED
- SITE RELATED WORK FOR STARBUCKS:

AT THE BUILDING EXTERIOR, THE GC SHALL BE RESPONSIBLE FOR ALL SUB-GRADE ELECTRICAL CONDUIT AND FOUNDATIONS FOR STARBUCKS SITE ITEMS INCLUDING, BUT NOT LIMITED TO, DIRECTIONAL SIGNAGE, MENU-BOARDS, DETECTOR LOOP, BOLLARDS AND HEIGHT RESTRICTION BAR. REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC REQUIREMENTS FOR CONDUIT RUNS

THE GC SHALL OBTAIN A COMPLETE AND CURRENT SET OF STARBUCKS INTERIOR FINISH-OUT PLANS. THOSE DOCUMENTS SHALL GOVERN WHEN DETERMINING PRECISE LOCATIONS FOR STARBUCKS SITE ITEMS AND SPECIFICATIONS FOR THEIR FOUNDATIONS. DIMENSIONS REQUIRED TO LOCATE THESE ITEMS HAVE BEEN INTENTIONALLY OMITTED IN THESE CONSTRUCTION DOCUMENTS TO AVOID POTENTIAL CONFLICTS WITH STARBUCKS CONSTRUCTION DOCUMENTS
- GYPSUM WALLBOARD (GWB) FOR STARBUCKS:

WHERE INDICATED AT THE STARBUCKS TENANT SPACE, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF 5/8" TYPE 'X' GYPSUM WALLBOARD OVER 6" 20 GA. METAL STUD FURRING AT 16" O.C. WITH BATT INSULATION AT THE CAVITY. SAID CONSTRUCTION SHALL BE PROVIDED AT THE INTERIOR PERIMETER OF THE EXTERIOR WALLS, U.O.N. AND SHALL EXTEND FULL HEIGHT TO ROOF DECK. ALL GWB SURFACES SHALL BE FINISHED TO A LEVEL 4 FINISH, PRIMED WHITE AND READY TO RECEIVE PAINT FINISH BY TENANT

THE GENERAL CONTRACTOR SHALL COORDINATE INSTALLATION OF GWB WITH STARBUCKS TENANT FINISH-OUT CONTRACTOR AND THEIR ROUGH-IN OF ELECTRICAL AND PLUMBING

WALL LEGEND

8" CMU WALL CONSTRUCTION. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT AND FILLED CELL LOCATIONS. AT INTERIOR, PROVIDE 20 GA. METAL STUD FURRING AT 16" O.C. WITH BATT INSULATION AT CAVITY AND 5/8" TYPE 'X' GWB. ALL FULL HEIGHT TO ROOF DECK. GENERAL CONTRACTOR SHALL COORDINATE INSTALLATION OF GWB WITH TENANT'S ROUGH-IN. SEE ADDITIONAL NOTES THIS SHEET

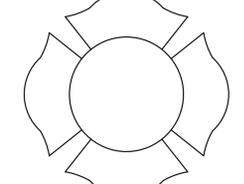
LIFE SAFETY LEGEND

- MOST REMOTE POINT IN SPACE
- PATH OF EGRESS TRAVEL
- POINT OF EGRESS TRAVEL DISTANCE
- POINT OF EXIT CHOICE
- FIRE EXTINGUISHER, 5LB 2A-10B-C ON SURFACE MOUNTED WALL BRACKET
- EXIT SIGN / EMERGENCY LIGHT COMBINATION FIXTURE, REFER TO ELECTRICAL DRAWINGS
- DOOR SYMBOL, REFER TO SHEET A4.0 FOR DOOR AND HARDWARE SCHEDULE

LIGHTWEIGHT TRUSS SIGNAGE

F.A.C. 69A-60.0081 NOTICE REQUIRED FOR STRUCTURES WITH LIGHT-FRAME TRUSS-TYPE CONSTRUCTION

NOTE: THIS BUILDING DOES NOT CONTAIN PRIMARY STRUCTURAL ELEMENTS WHICH ARE OF LIGHT-FRAME TRUSS-TYPE CONSTRUCTION



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GUY F. FABER
FL License No. AR0015323

REVISED PER BUILDING PERMIT COMMENTS & TENANT COORD.	date	revision descriptions
10.17.2023		

STARBUCKS SHELL CONSTRUCTION
BAYSIDE LAKES BLVD
PALM BAY, FL

12.02.2022 date
22032 comm. no.
FLOOR PLAN AND NOTES

A1.0

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

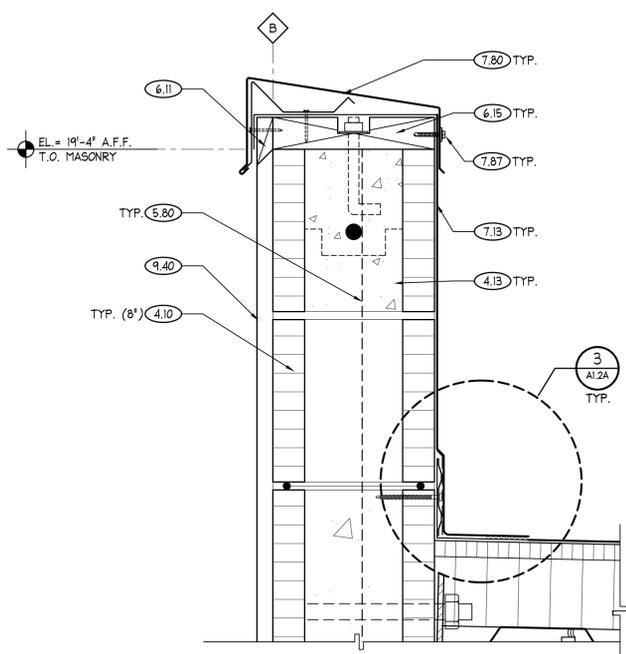


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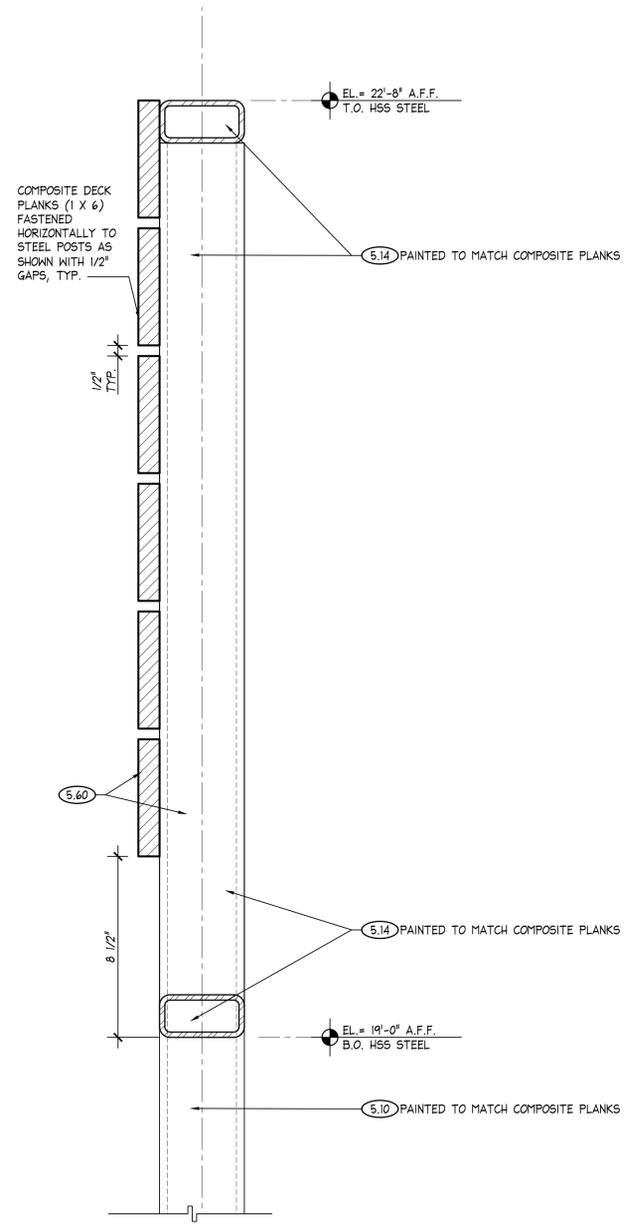
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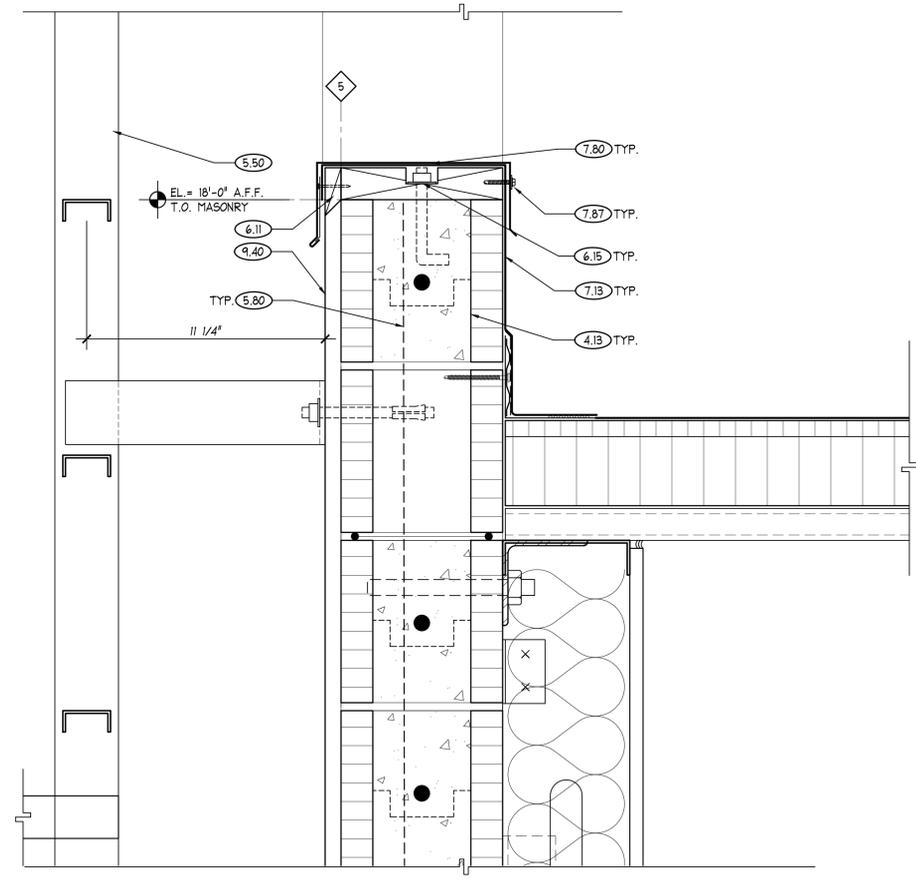
no.	date	revision descriptions



1 PARAPET DETAIL
 SCALE: 3" = 1'-0"



2 EQUIPMENT SCREEN DETAIL
 SCALE: 3" = 1'-0"



3 PARAPET DETAIL
 SCALE: 3" = 1'-0"

STARBUCKS SHELL CONSTRUCTION
 BAYSIDE LAKES BLVD
 PALM BAY, FL

12.02.2022
 date

22032
 comm. no.

ROOF
 DETAILS

A1.2

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

FWH
Architects

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GUY F. FABER
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no.	date	revision descriptions

STARBUCKS
SHELL CONSTRUCTION

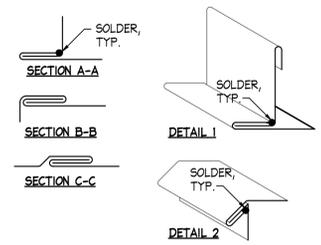
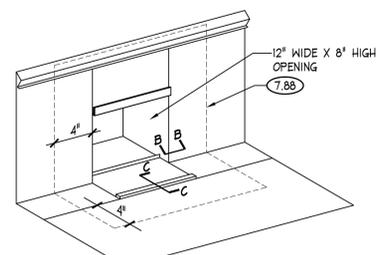
BAYSIDE LAKES BLVD
PALM BAY, FL

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22032
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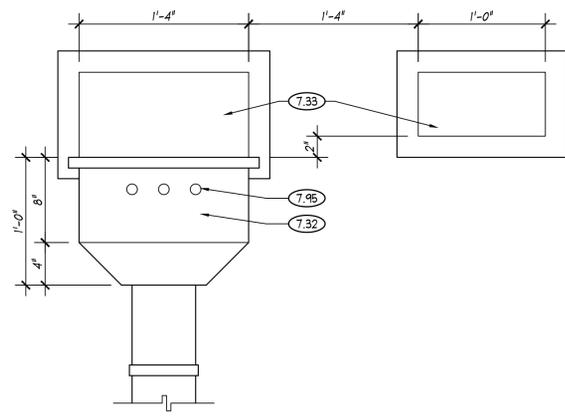
ROOF
DETAILS

A1.2A

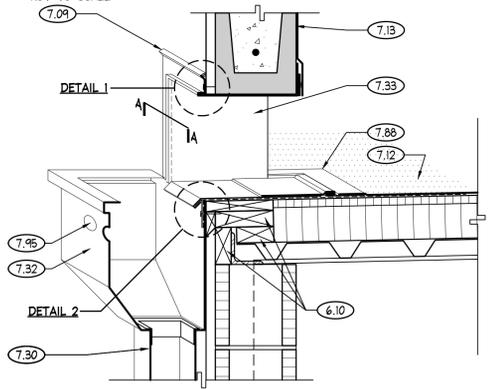


FLASHING DETAIL
NOT TO SCALE

FLASHING DETAILS
NOT TO SCALE

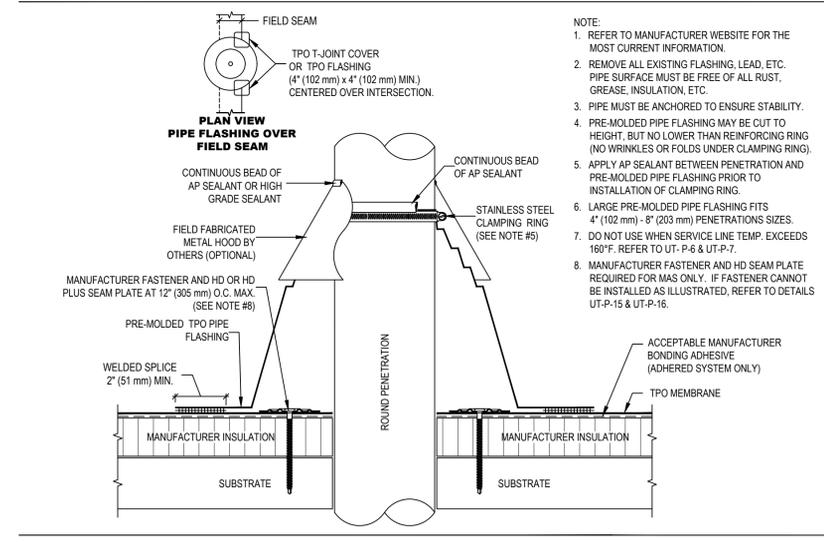


ELEVATION



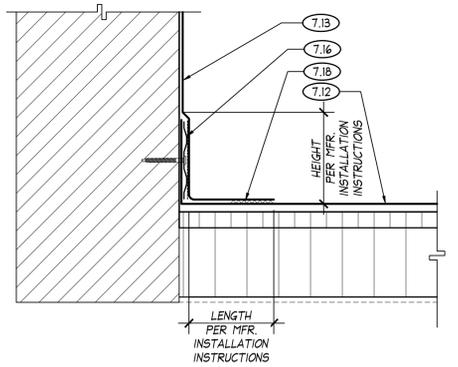
SECTION

1 TYPICAL SCUPPER DETAILS
SCALE: 1-1/2" = 1'-0"

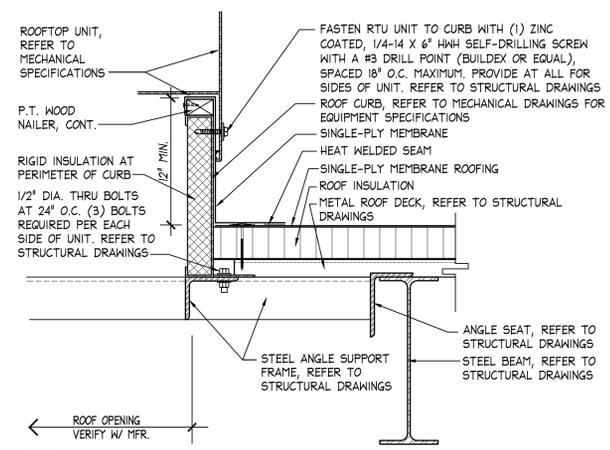


2 PLUMBING VENT DETAIL
SCALE: 6" = 1'-0"

- NOTE:
- REFER TO MANUFACTURER WEBSITE FOR THE MOST CURRENT INFORMATION.
 - REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
 - PIPE MUST BE ANCHORED TO ENSURE STABILITY.
 - PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
 - APPLY AP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
 - LARGE PRE-MOLDED PIPE FLASHING FITS 4" (102 mm) - 8" (203 mm) PENETRATIONS SIZES.
 - DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 160°F. REFER TO UT-P-6 & UT-P-7.
 - MANUFACTURER FASTENER AND HD SEAM PLATE REQUIRED FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16.

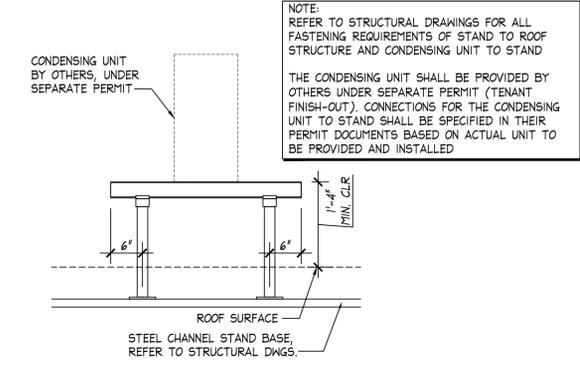


3 TYPICAL PARAPET FLASHING DETAIL
SCALE: 3" = 1'-0"

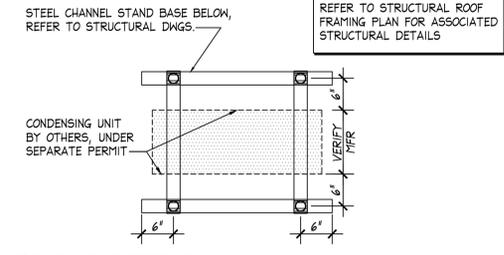


- NOTES:
- AT LEAST ONE SIDE OF THE ROOF OPENING SHALL BE SUPPORTED BY A ROOF FRAMING MEMBER
 - THE ROOF CURBS MAY BE WITHOUT INSULATION. TOP OF ROOF CURB SHALL BE INSTALLED LEVEL, SHIMMED FROM BENEATH SO TOP OF CURB HEIGHT WILL BE AS STATED IN FBC-BUILDING TABLE 1522.3 ABOVE ROOF SURFACE.
- NOTE:
REFER TO STRUCTURAL ROOF FRAMING PLAN FOR ASSOCIATED STRUCTURAL DETAILS
- NOTE:
REFER TO STRUCTURAL DRAWINGS FOR FASTENING METHODS AND SPECIFICATIONS

4 TYPICAL ROOFTOP UNIT CURB DETAIL
SCALE: 1-1/2" = 1'-0"



SIDE ELEVATION

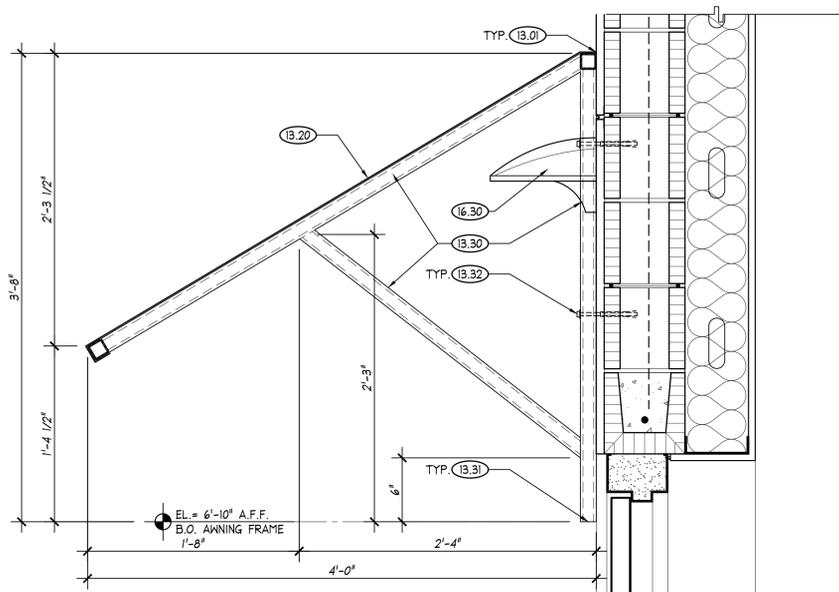


5 PLAN VIEW CONDENSING RACK DETAILS
SCALE: 3/4" = 1'-0"

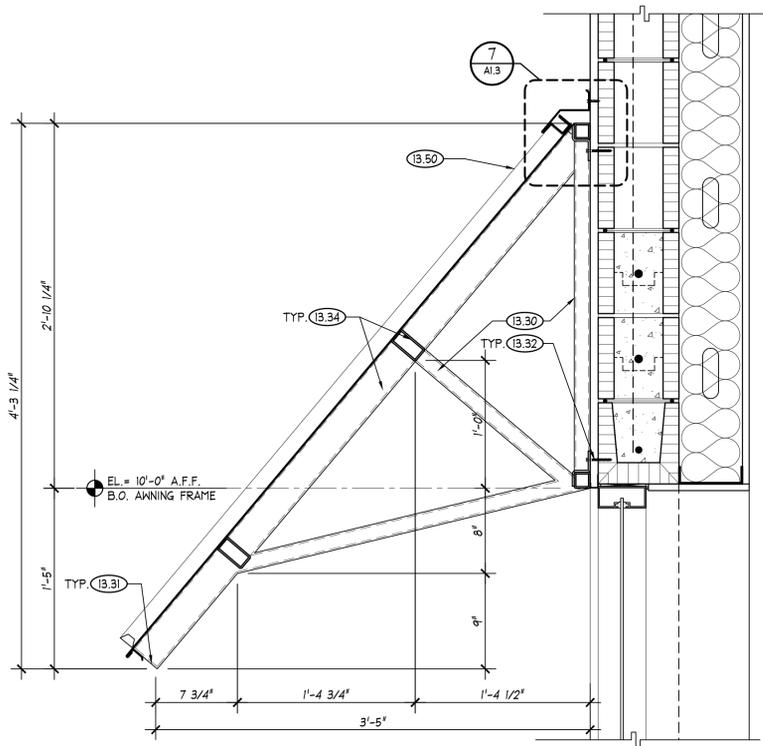
NOTE:
REFER TO STRUCTURAL DRAWINGS FOR ALL FASTENING REQUIREMENTS OF STAND TO ROOF STRUCTURE AND CONDENSING UNIT TO STAND

THE CONDENSING UNIT SHALL BE PROVIDED BY OTHERS UNDER SEPARATE PERMIT (TENANT FINISH-OUT). CONNECTIONS FOR THE CONDENSING UNIT TO STAND SHALL BE SPECIFIED IN THEIR PERMIT DOCUMENTS BASED ON ACTUAL UNIT TO BE PROVIDED AND INSTALLED

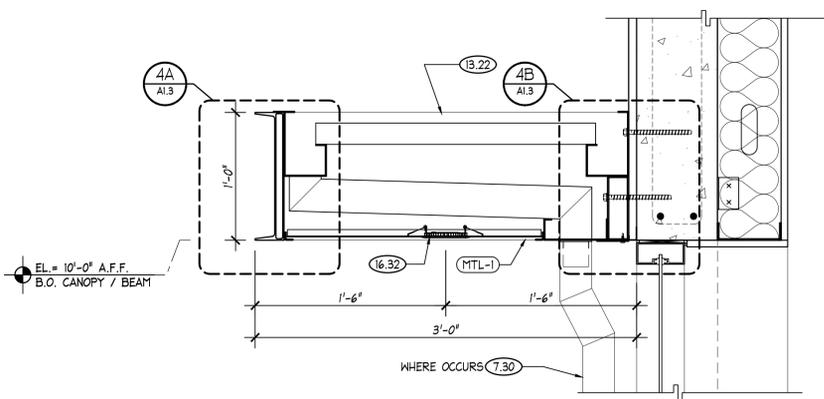
NOTE:
REFER TO STRUCTURAL ROOF FRAMING PLAN FOR ASSOCIATED STRUCTURAL DETAILS



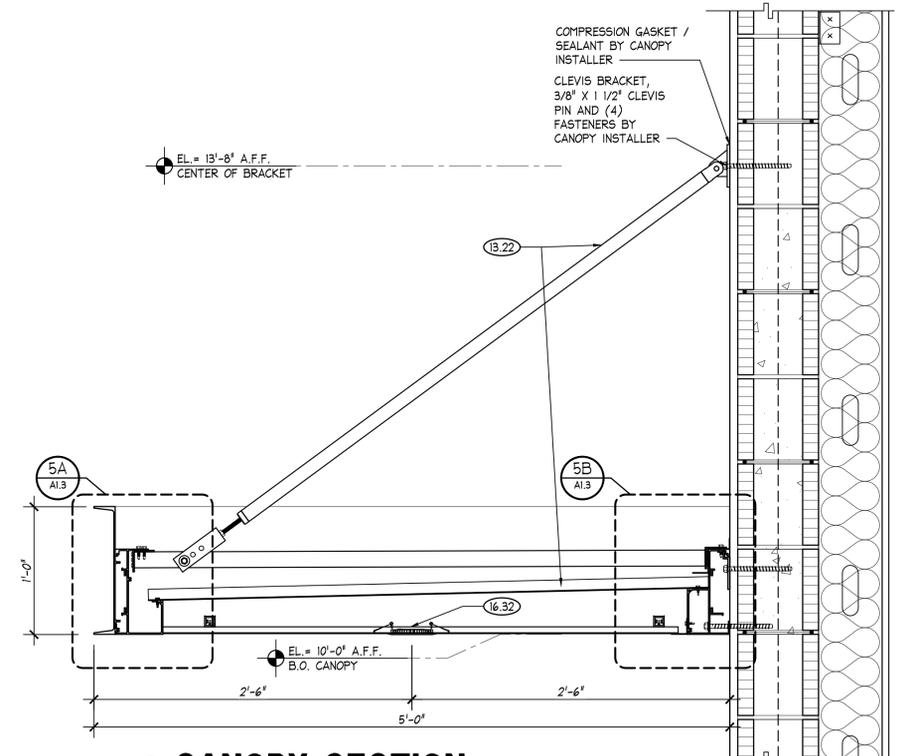
1 AWNING SECTION
SCALE: 1-1/2" = 1'-0"



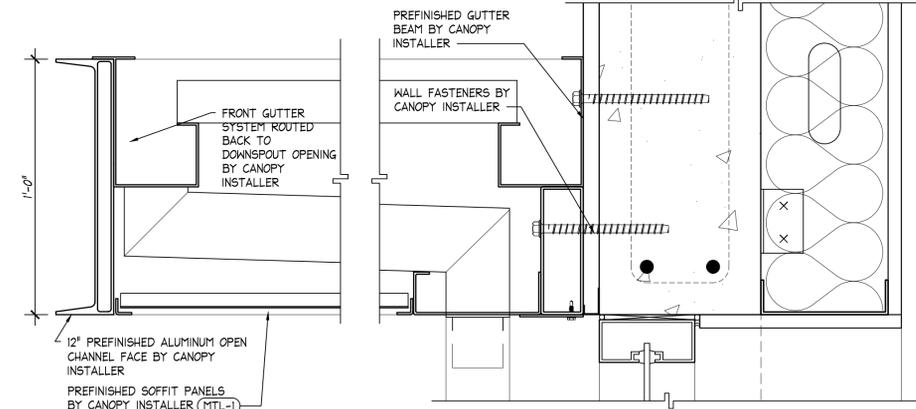
2 AWNING SECTION
SCALE: 1-1/2" = 1'-0"



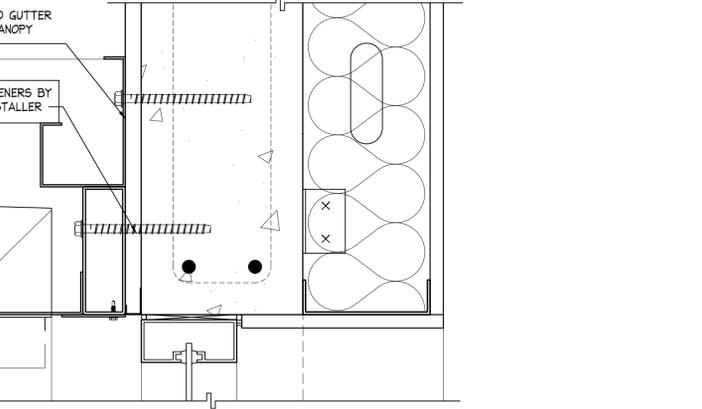
3 CANOPY SECTION
SCALE: 1-1/2" = 1'-0"



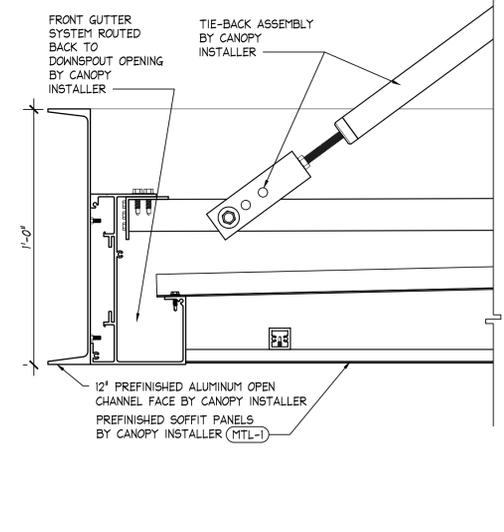
4 CANOPY SECTION
SCALE: 1-1/2" = 1'-0"



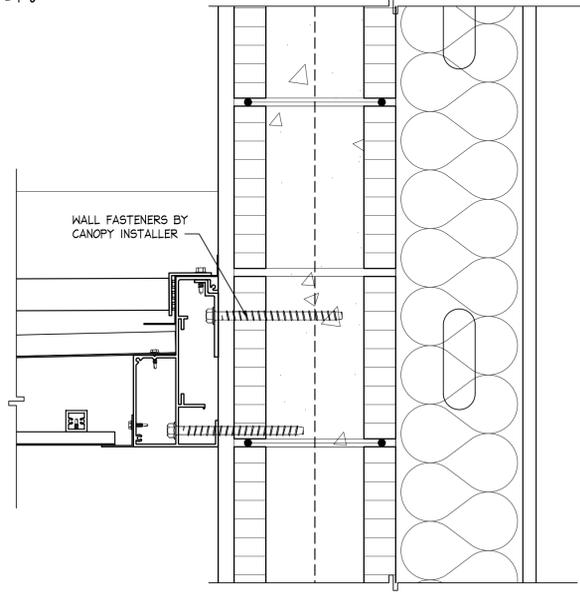
4A CANOPY DETAIL
SCALE: 3" = 1'-0"



4A CANOPY DETAIL
SCALE: 3" = 1'-0"



5A CANOPY DETAIL
SCALE: 3" = 1'-0"



5B CANOPY DETAIL
SCALE: 3" = 1'-0"

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

ALUMINUM AWNING NOTES:

AWNING DETAILS PROVIDED SHOW DESIGN INTENT INCLUDING DIMENSIONS, COMPONENTS AND MOUNTING HEIGHTS. THE AWNING FABRICATOR SHALL PROVIDE SEPARATE SHOP DRAWINGS SHOWING ALL COMPONENTS AND METHOD OF ATTACHMENT. SAID DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. THE AWNING FABRICATOR SHALL SUBMIT DRAWINGS TO THE BUILDING DEPARTMENT FOR REVIEW, APPROVAL AND PERMIT.

PROVIDE WELDED PLATE CAPS AT ALL EXPOSED TUBE TERMINATIONS. ALL WELDED CONNECTIONS SHALL BE GROUND SMOOTH PRIOR TO FINISH APPLICATION

ALUMINUM COMPONENTS TO BE FINISHED WITH STANDARD, OVEN CURED POWDER COAT AND SHALL MEET AAMA 2604 REQUIREMENTS

ALL DIMENSIONS TO BE FIELD VERIFIED

STEEL AND ALUMINUM COMPONENTS AND GLADDING SHALL BE PROPERLY ISOLATED TO PREVENT GALVANIC ACTION. PROVIDE BITUMINOUS COATING OR ARCHITECT APPROVED METHOD

PRE-ENGINEERED CANOPY NOTES

THE GENERAL CONTRACTOR SHALL ENGAGE A CANOPY MANUFACTURER TO PROVIDE FULLY ENGINEERED CANOPIES IN COMPLIANCE WITH THE DESIGN INTENT PROVIDED IN THE CONSTRUCTION DOCUMENTS

THE PRE-ENGINEERED ALUMINUM CANOPY DESIGNS DEPICTED IN THE PLANS ARE BASED ON DETAILS AND COMPONENTS PROVIDED BY AWNING AND SIGN CONTRACTORS (ASC), TEL. (260) 665-1521, WWW.AWNINGANDSIGNCONTRACTORS.NET

THE CANOPY MANUFACTURER SHALL PROVIDE CANOPY ASSEMBLIES THAT ARE DESIGNED TO MEET THE WIND LOADS AT THE SUBJECT PROPERTY AND, ADDITIONALLY, THAT ARE TESTED AND APPROVED BY MIAMI-DADE NOA OR FLORIDA PRODUCT APPROVAL

THE CANOPY MANUFACTURER SHALL PROVIDE FULLY ENGINEERED SHOP DRAWINGS WHICH SPECIFY ALL CANOPY COMPONENTS INCLUDING CONNECTIONS TO PRIMARY STRUCTURE. THE CONNECTION TO PRIMARY STRUCTURE INCLUDES ANY AND ALL NECESSARY SUPPORT BLOCKING REQUIREMENTS AND METHOD OF ATTACHMENT TO PRIMARY STRUCTURE. SHOP DRAWINGS SHALL BE SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW AND APPROVAL

UPON RECEIPT OF SHOP DRAWING APPROVAL, THE CANOPY MANUFACTURER SHALL BE RESPONSIBLE FOR SUBMISSION OF SIGNED AND SEALED PLANS FOR PERMIT TO THE AUTHORITY HAVING JURISDICTION

UPON APPROVAL BY THE JURISDICTION, THE CANOPY MANUFACTURER SHALL BE RESPONSIBLE FOR THE FABRICATION AND COMPLETE INSTALLATION OF THE CANOPIES

ALL SUPPORT BLOCKING AND ATTACHMENT TO THE BUILDING SHALL BE FULLY COORDINATED WITH THE GENERAL CONTRACTOR

REFER TO ENLARGED DETAILS ON THIS SHEET FOR DESIGN INTENT AND PHYSICAL CANOPY PARAMETERS. A WRITTEN DESCRIPTION IS AS FOLLOWS:

- 1) THE CANOPIES SHALL BE PRE-ENGINEERED, PRE-FINISHED ALUMINUM
- 2) CANOPIES AT THE PRIMARY FACADE(S) SHALL HAVE INTEGRATED GUTTERS AS SHOWN ROUTED WITH OUTLETS PROVIDED BY THE CANOPY INSTALLER (THE DOWNSPOUTS SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. WHERE APPLICABLE, THE DOWNSPOUTS SHALL BE CONNECTED TO THE UNDERGROUND STORM SYSTEM. DOWNSPOUTS SHALL BE PRE-FINISHED ALUMINUM TO MATCH THE CANOPY COMPONENTS)
- 3) THE CANOPY AT THE DRIVE-THRU SHALL HAVE INTEGRATED FRONT GUTTERS ROUTED TO OUTLETS AT THE MAIN BUILDING WALL (THE DOWNSPOUTS SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. WHERE APPLICABLE, THE DOWNSPOUTS SHALL BE CONNECTED TO THE UNDERGROUND STORM SYSTEM. DOWNSPOUTS SHALL BE PRE-FINISHED ALUMINUM TO MATCH THE CANOPY COMPONENTS)
- 4) THE CANOPY SOFFIT MATERIAL SHALL BE PRE-FINISHED ALUMINUM ONLY, COLOR AS INDICATED ON THIS SHEET
- 5) CANOPIES SHALL INCLUDE RECESSED DOWN LIGHTING AS INDICATED ON THE REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS
- 6) WIRING FOR RECESS MOUNTED LIGHTING, EMERGENCY LIGHTING, ETC. AT THE UNDERSIDE OF CANOPIES SHALL BE FULLY CONCEALED WITHIN SOFFIT. THE ELECTRICIAN SHALL PROVIDE DETAILS SHOWING ROUTING OF WIRING FOR APPROVAL PRIOR TO INSTALLATION
- 7) ALUMINUM COMPONENTS TO BE FINISHED WITH STANDARD, OVEN CURED POWDER COAT AND SHALL MEET AAMA 2604 REQUIREMENTS
- 8) ANY GALVANIZED STEEL COMPONENTS SHALL BE PRIMED AND PAINTED
- 9) ALUMINUM AND GALVANIZED STEEL COMPONENTS SHALL BE ISOLATED FROM ONE ANOTHER TO PREVENT GALVANIC ACTION

REFER TO THE FINISH SCHEDULE ON SHEET A3.0 FOR CANOPY FINISH COLOR



3336 Grand Blvd, Suite 201
Holiday, Florida 34690
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TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

GUY F. FABER
FL License No. AR0013323

NO.	DATE	REVISION DESCRIPTIONS

STARBUCKS SHELL CONSTRUCTION
BAYSIDE LAKES BLVD
PALM BAY, FL

12.02.2022
date

22032
comm. no.

CANOPY AND AWNING DETAILS

A1.3

GENERAL NOTES

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

1. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING SPECIFICATIONS AND LOCATIONS OF EMERGENCY LIGHTING
2. REFER TO MECHANICAL PLANS FOR ROOFTOP EQUIPMENT AND DROPS
3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRIC POWER SUPPLY / RECEPTACLES ABOVE STOREFRONT OPENINGS AND THE BUILDING EXTERIOR FOR WALL MOUNTED SIGNAGE. REFER ALSO TO THE EXTERIOR ELEVATIONS
4. REFER TO SHEET A4.1 FOR HEAD, JAMB AND SILL DETAILS



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GUY F. FABER
 FL License No. AR0015323

REVISED PER BUILDING PERMIT COMMENTS & TENANT COORD.	no.	date	revision descriptions
10.17.2023	1		

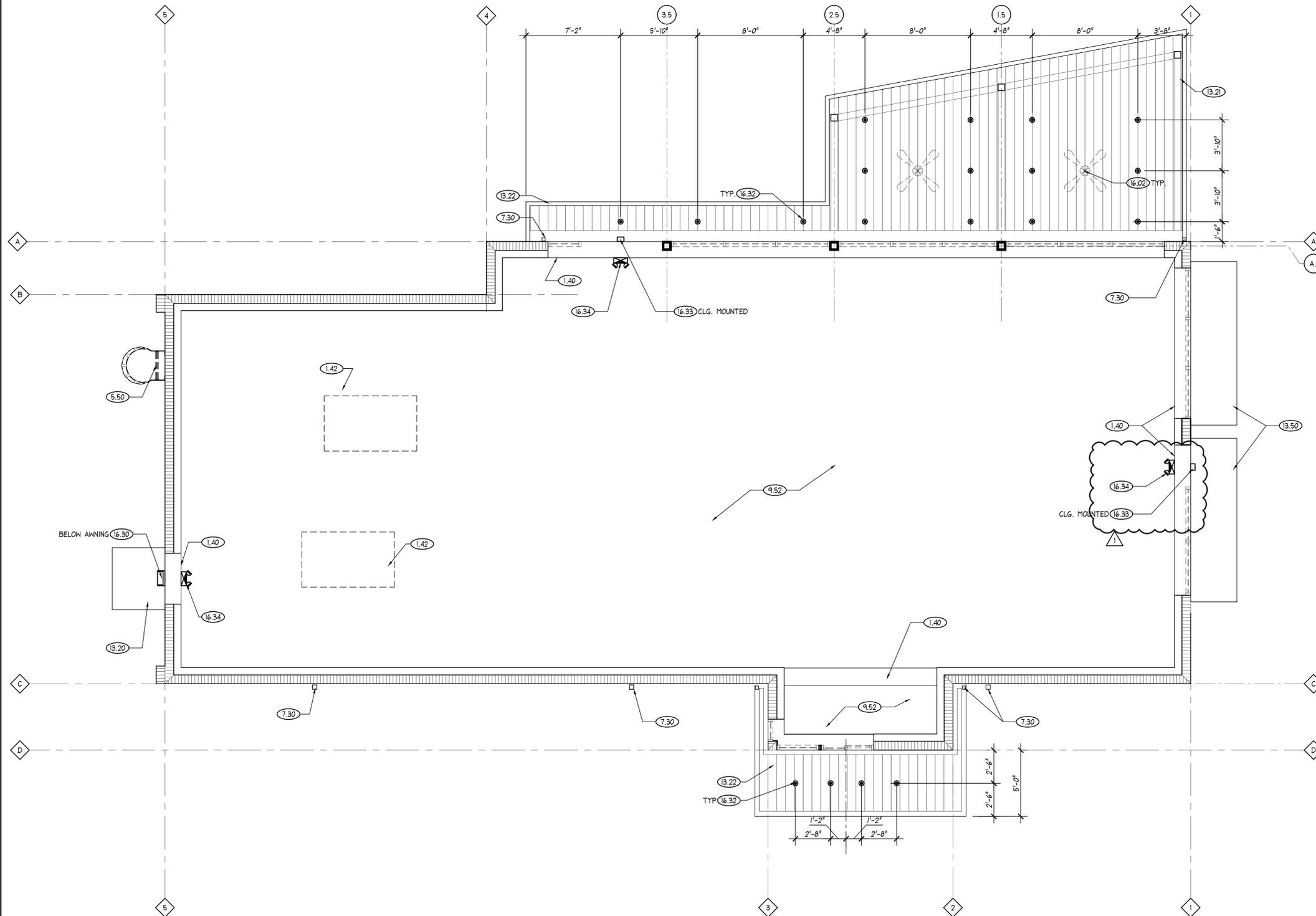
STARBUCKS SHELL CONSTRUCTION
 BAYSIDE LAKES BLVD
 PALM BAY, FL

12.02.2022
 date

22032
 comm. no.

REFLECTED
 CEILING PLAN

A2.0



REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

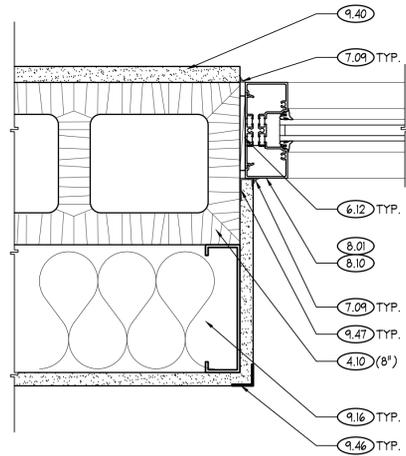
TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.



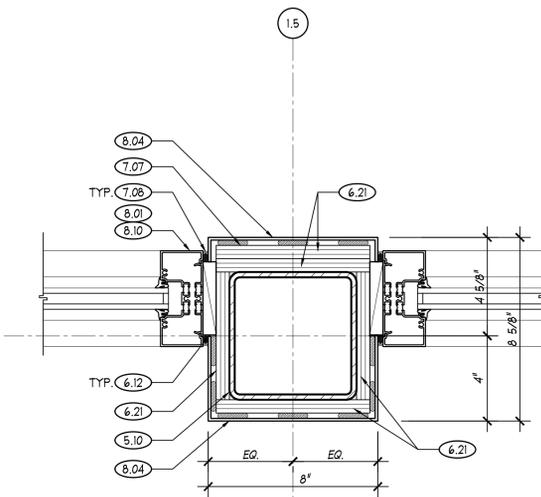
3336 Grand Blvd, Suite 201
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TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS CONFORM WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

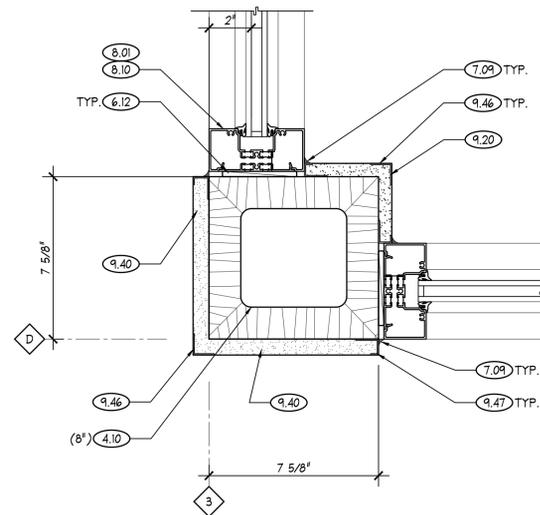
GUY F. FABER
 FL License No. AR0015323



1 PLAN DETAIL
 SCALE: 3" = 1'-0"



2 PLAN DETAIL
 SCALE: 3" = 1'-0"



3 PLAN DETAIL
 SCALE: 3" = 1'-0"

no.	date	revision descriptions

STARBUCKS
SHELL CONSTRUCTION
 BAYSIDE LAKES BLVD
 PALM BAY, FL

12.02.2022
 date

22032
 comm. no.

ENLARGED
 PLAN DETAILS

A4.2

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

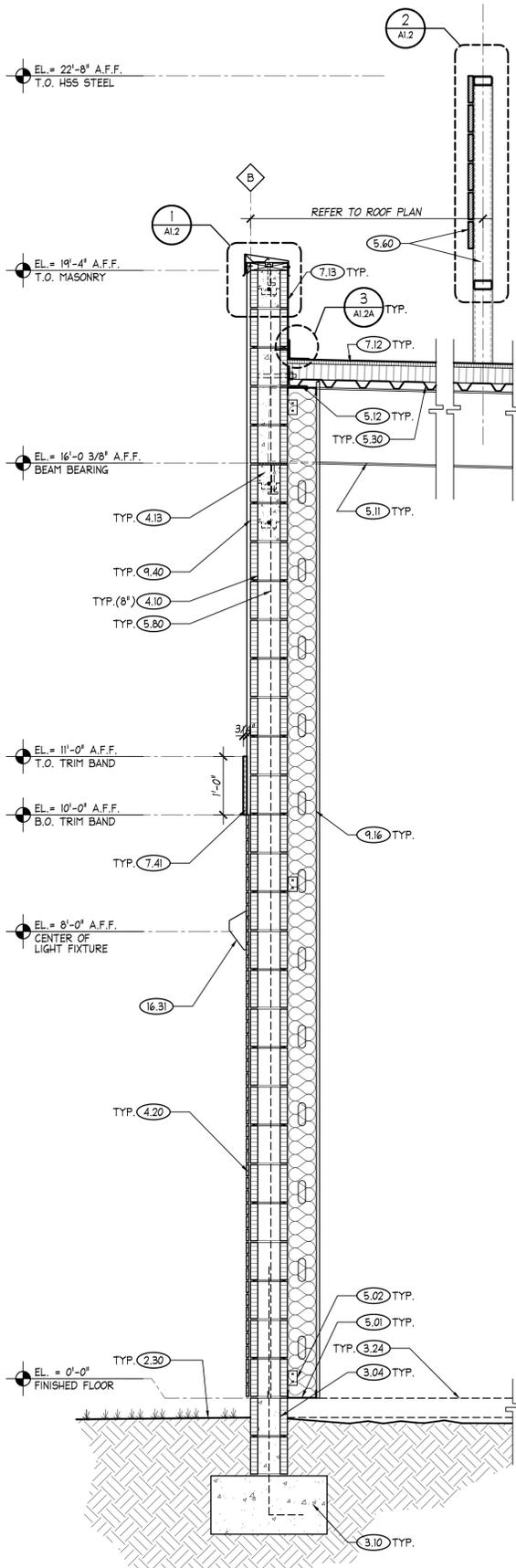
TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.



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no.	date	revision descriptions

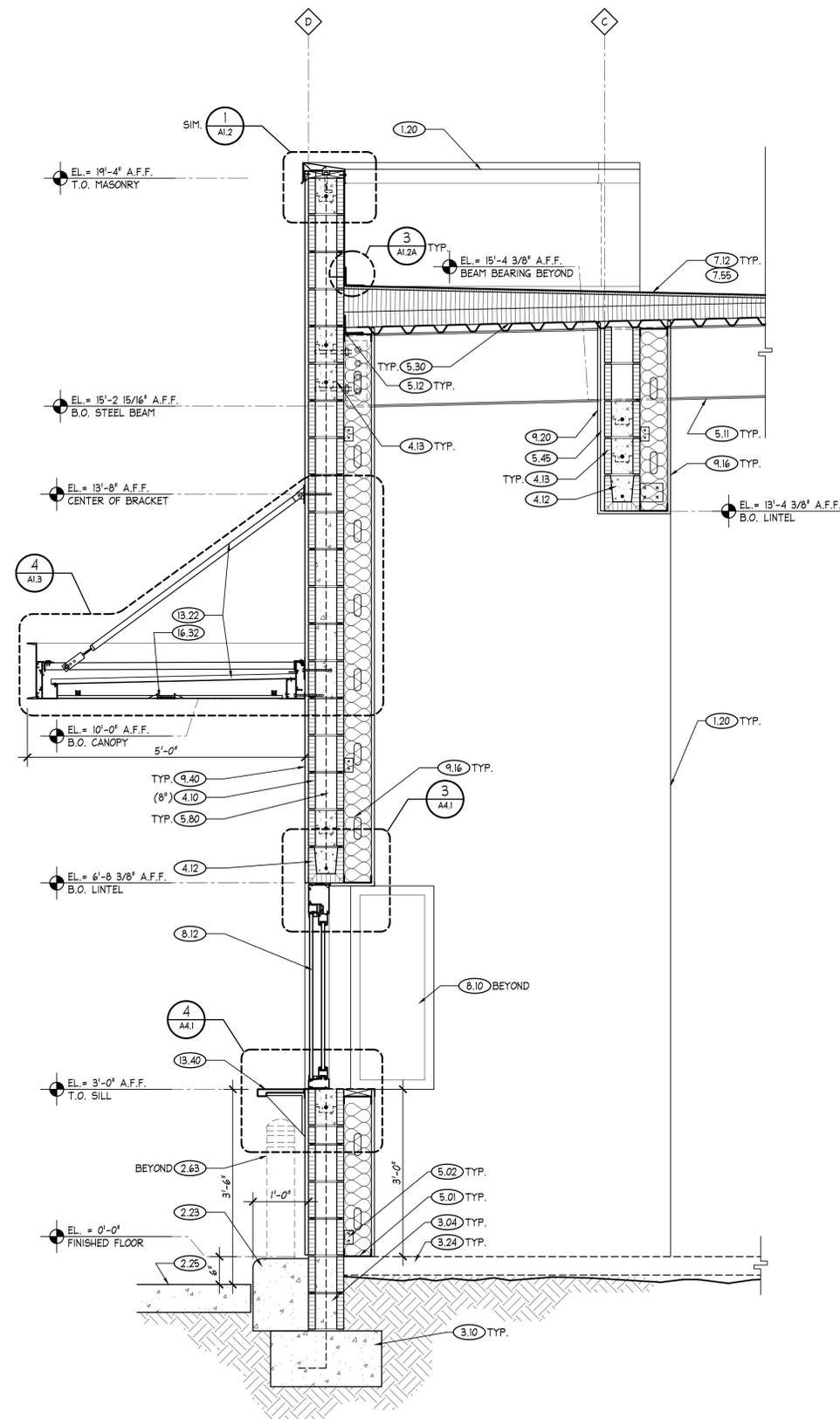
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12.02.2022
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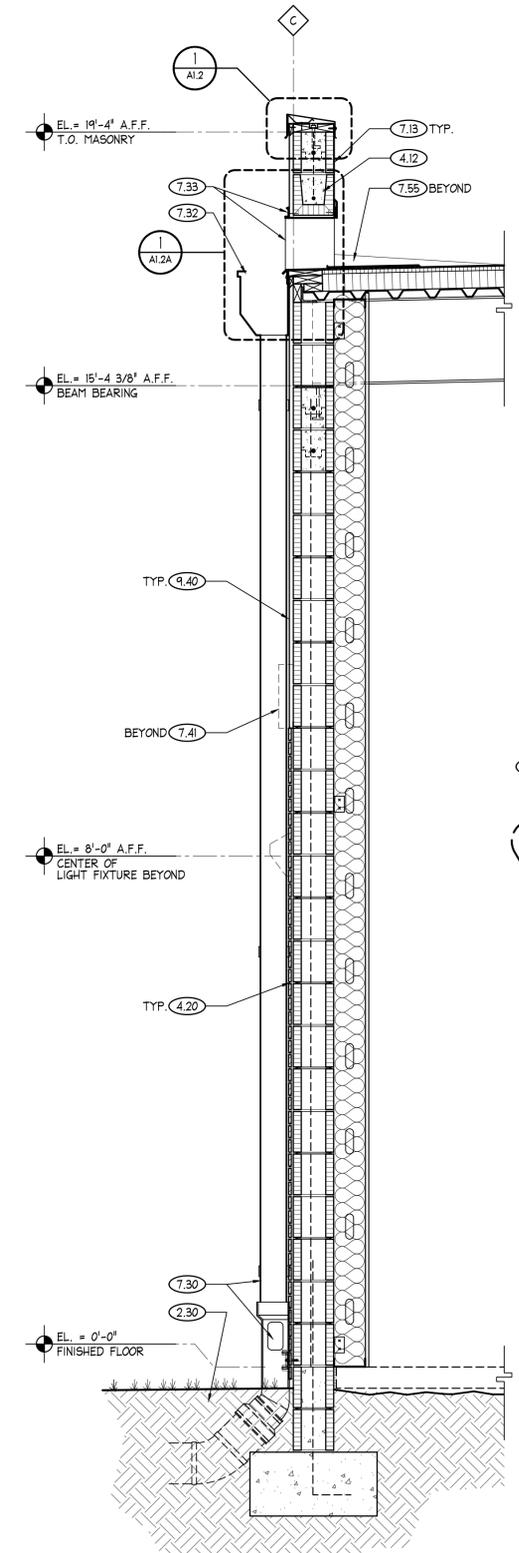
22032
 comm. no.

WALL SECTIONS

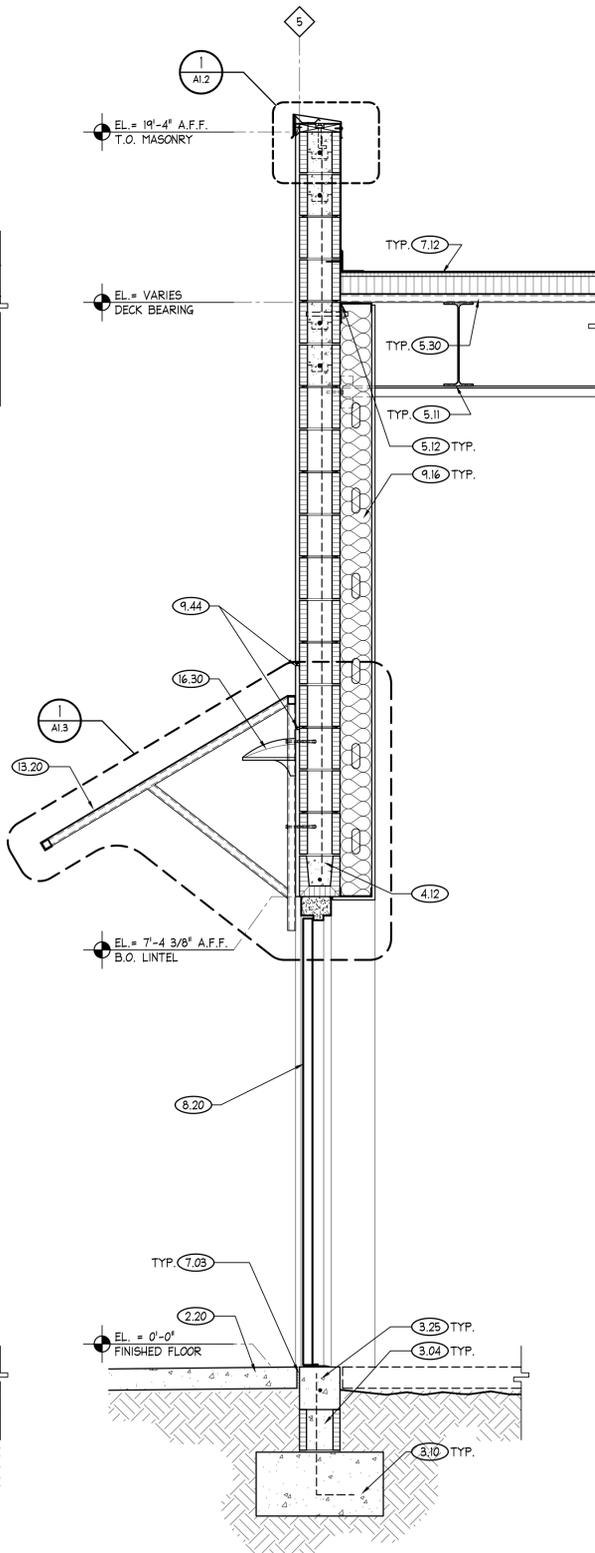
A5.1



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



2 WALL SECTION
 SCALE: 3/4" = 1'-0"



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

MISCELLANEOUS

- 1. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH...

MATERIAL AND SHOP DRAWING SUBMITTALS

- 1. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTING TO THE ARCHITECT...

SITE WORK

- 1. A SUBSURFACE INVESTIGATION HAS BEEN COMPLETED AT THE PROJECT SITE BY UNIVERSAL ENGINEERING SCIENCES, INC. PROJECT NO. 0330.2300019...

CAST IN PLACE CONCRETE

- 1. CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

- 9. PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC. AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING IN PLACE...

MASONRY

- 1. MASONRY INSPECTION SHALL BE PROVIDED BY A QUALIFIED AGENT IN ACCORDANCE WITH AQ 530.1-1.6. INSPECTION SERVICES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE WORK IN PROGRESS AS WELL AS MATERIALS, EQUIPMENT, AND PROCEDURES...

REINFORCEMENT IN THE LAPPED DISTANCE

- 17. CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY IN EACH GROUT POUR WHEN THE POUR HEIGHT EXCEEDS 5'. CLEANOUTS TO BE SAW-CUT 3" X 3"...

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION, EXCEPT CHAPTER 4.2.1, CODE OF STANDARD PRACTICE...

- 1. SHOP PAINT ALL SURFACES OF STEEL EXCEPT ANCHOR BOLTS AND SURFACES TO BE FIELD WELDED. APPLY PAINT IN ACCORDANCE WITH SSPC-PA1, SHOP FIELD AND MAINTENANCE PAINTING...

HILT HIT-RE 500-V3 ESR-3814

- 4. BORE HOLE CLEANING PROCEDURES MUST COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS AND THE APPLICABLE ICC EVALUATION REPORT IN ORDER TO PRODUCE A DRY, DUST-FREE HOLE...

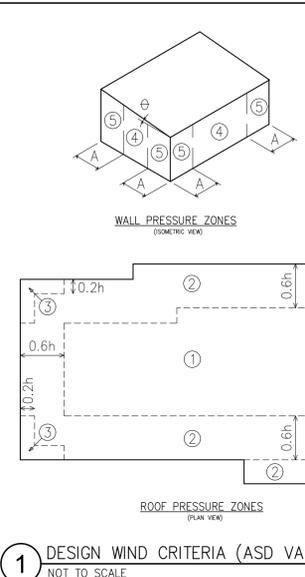
METAL DECKING

- 1. ALL METAL DECK SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.

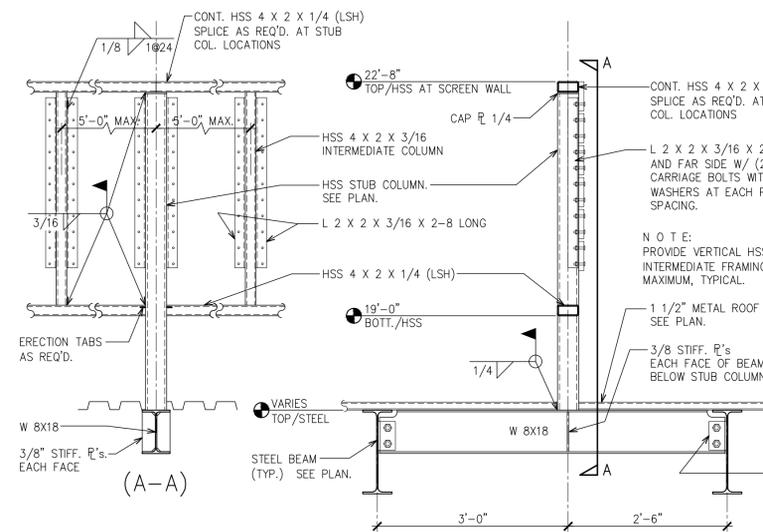
- 1. SHOP PAINT - METAL ALKYD-OIL PRIMER, ANY OF THE FOLLOWING: MANUFACTURER PORTER NO. 298 MOBILE NO. 13F812 TINMEC NO. 1009 AMERON NO. 5102 AMERCOT

- 8. SURFACE PREPARATION - PREPARE STEEL SURFACE IN ACCORDANCE WITH SSPC-SP3 POWER TOOL CLEANING. ANY METHOD IN CONFORMANCE WITH AN SSPC SPECIFICATION OF HIGHER QUALITY THAN LISTED WILL BE ACCEPTABLE...

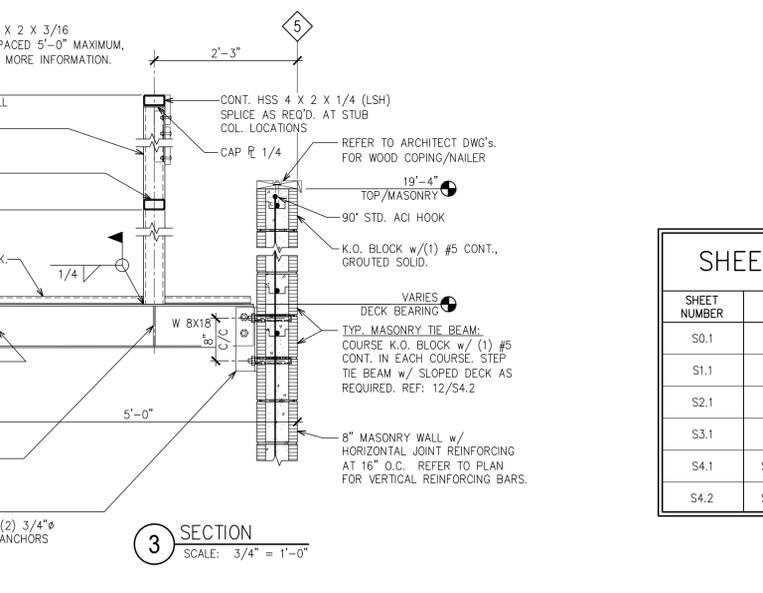
- 9. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING TESTS:



DESIGN WIND CRITERIA (ASD VALUES) NOT TO SCALE



SECTION 1 SCALE: 3/4" = 1'-0"



SECTION 2 SCALE: 3/4" = 1'-0"

Table with 2 columns: BUILDING DATA (ULTIMATE WIND SPEED, WIND LOAD FACTOR, RISK CATEGORY, etc.) and values.

Table with 2 columns: DESIGN WIND LOADS - COMPONENTS & CLADDING (Values per ASD) and values for ROOF and WALL.

NOTES: 1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA...

SHEET INDEX table with columns SHEET NUMBER and SHEET TITLE, listing SO.1, S1.1, S2.1, S3.1, S4.1, S4.2.

EAG PROFESSIONAL ENGINEERING, INC. 14912 Woodloch Ann Dr. - Lutz, FL 33556 Ph: 813.963.1906 STRUCTURAL Alan C. Guenther, P.E. #53308 / C.A. #26813

FWH Architects logo and contact information: 3336 Grand Blvd., Suite 201, Killeen, Florida 34690. Ph: 727.815.3336

ALAN C. GUENTHER, P.E. FL PE #53308. TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

Table with columns revision descriptions, date, and no., containing a single row with 'revision descriptions'.

STARBUCKS SHELL CONSTRUCTION logo and address: BAYSIDE LAKES BLVD PALM BAY, FL

12.02.2022 date, 22032 comm. no., STRUCTURAL NOTES title, and SO.1 sheet identifier.

PLOT DATE: 10.17.2023

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

ALAN C. GUENTHER, P.E.
FL PE #53308

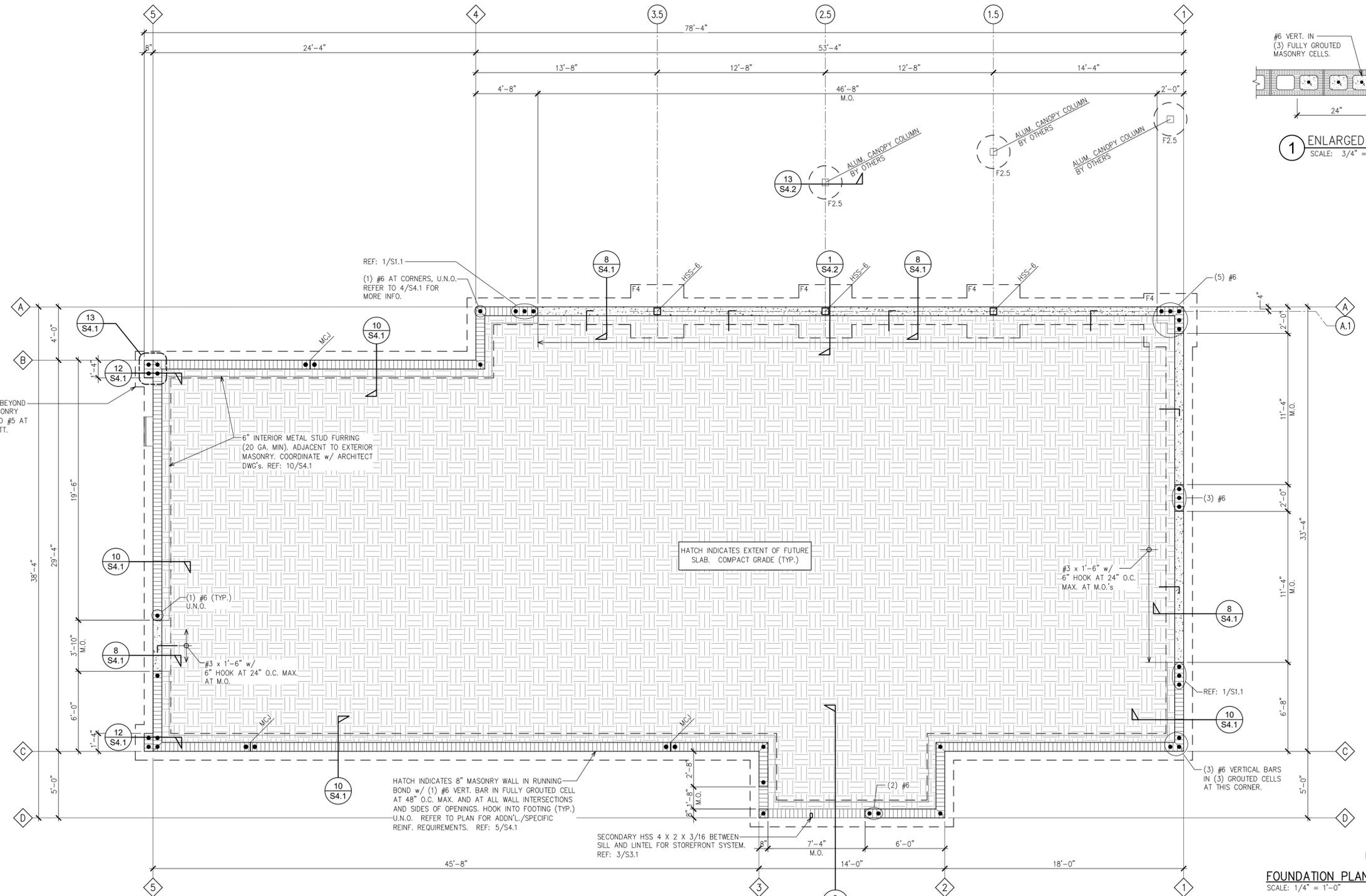
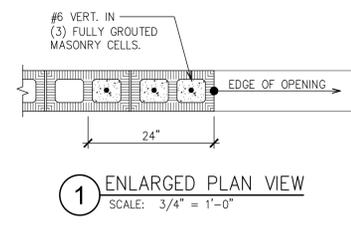
no.	date	revision descriptions

STARBUCKS
SHELL CONSTRUCTION
BAYSIDE LAKES BLVD
PALM BAY, FL

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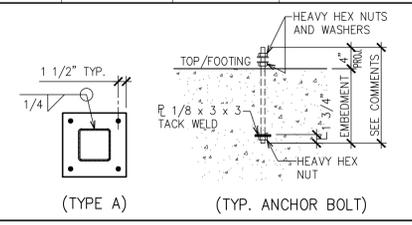
FOUNDATION
PLAN

S1.1



STEEL COLUMN SCHEDULE

MARK	COLUMN SIZE	BASE PLATE	BASE PLATE TYPE	COMMENTS
HSS-4	HSS 4 X 4 X 1/4	-	-	ROOF STUB COLUMN AT MECH. SCREEN WALL
HSS-6	HSS 6 X 6 X 1/4	3/4 X 12 X 12	TYPE A	(4) 3/4"Ø X 12" F1554-GR36 ANCHOR BOLTS



FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING	COMMENTS
WF2	2'-0" WIDE X CONT.	1'-0"	(3) #5 CONT. W/ #5 TRANSV. AT 48" O.C. BOTTOM	WALL FOOTING
F2.5	2'-6" DIAMETER	5'-0"	(5) #6 VERTICAL W/ #3 TIES AT 12" O.C.	CANOPY FOOTING
F4	4'-0" X 4'-0"	1'-0"	(4) #5 EACH WAY, BOTTOM	COLUMN FOOTING

FOUNDATION PLAN NOTES:

- FUTURE SLAB-ON-GRADE TO BE 4" THICK (3,000 PSI MIN.) WITH 6x6 - W1.4xW1.4 W.W.F. ON 15 MIL VAPOR RETARDER OVER COMPACTED AND TERMITES TREATED SOIL. SLAB TO BE LEVEL (1/64" PER FOOT OR LESS), SMOOTH, CLEAN AND WITH SEALED CONTROL JOINTS. INSTALL FUTURE SLAB CONTROL JOINTS AT ≤15'-0" O.C. EACH WAY. JOINT PATTERN SHALL BE APPROXIMATELY SQUARE, AND LIMITED TO AN AREA NOT EXCEEDING 255 SQUARE FEET. REFER TO 1/S4.1 FOR CONTROL JOINT DETAIL.
- TOP OF SLAB ELEVATION = 0'-0" U.N.O.
TOP OF EXTERIOR FOOTING ELEVATION = (-) 1'-4" U.N.O.
- CENTER ALL FOOTINGS BELOW WALL OR COLUMN U.N.O.
- ALL FOOTING REINFORCING TO BE BOTTOM BARS U.N.O.
- REFER TO ARCHITECTURAL/CIVIL FOR EXTERIOR SLABS, PAVERS, AND SIDEWALK INFORMATION.
- REFER TO ARCHITECTURAL/PLUMBING DRAWINGS FOR FIXTURE/DRAIN LOCATIONS AND REQUIREMENTS.
- REFER TO THIS PLAN FOR MASONRY CONTROL JOINT (M.C.J.) LOCATIONS. REFER TO 3/S4.1 FOR MASONRY CONTROL JOINT DETAIL.
- ALL WALL FOOTINGS TO BE TYPE "WF2" U.N.O.
- REFER TO 7/S4.1 FOR PIPE PENETRATION DETAIL.
- PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONTINUOUS FOOTINGS. REFER TO DETAIL 2/S4.1 FOR MORE INFO.
- REFER TO 1/SO.1 FOR DESIGN WIND CRITERIA.
- REFER TO CIVIL DRAWINGS FOR LOCATION AND ORIENTATION OF THE BUILDING ON THE SITE.

EXTEND FTG. 8" (MIN.) BEYOND EXTERIOR FACE OF MASONRY BUMP-OUTS (TYP.). ADD #5 AT 12" O.C. EACH WAY BOT.

6" INTERIOR METAL STUD FURRING (20 GA. MIN.) ADJACENT TO EXTERIOR MASONRY. COORDINATE w/ ARCHITECT DWG'S. REF: 10/S4.1

REF: 1/S1.1
(1) #6 AT CORNERS, U.N.O. REFER TO 4/S4.1 FOR MORE INFO.

HATCH INDICATES EXTENT OF FUTURE SLAB. COMPACT GRADE (TYP.)

HATCH INDICATES 8" MASONRY WALL IN RUNNING-BOND w/ (1) #6 VERT. BAR IN FULLY GROUTED CELL AT 48" O.C. MAX. AND AT ALL WALL INTERSECTIONS AND SIDES OF OPENINGS. HOOK INTO FOOTING (TYP.) U.N.O. REFER TO PLAN FOR ADD'L/SPECIFIC REINF. REQUIREMENTS. REF: 5/S4.1

SECONDARY HSS 4 X 2 X 3/16 BETWEEN SILL AND LINTEL FOR STOREFRONT SYSTEM. REF: 3/S3.1

#3 x 1'-6" w/ 6" HOOK AT 24" O.C. MAX. AT M.O.'s

(3) #6 VERTICAL BARS IN (3) GROUTED CELLS AT THIS CORNER.

PLOT DATE: 10.17.2023

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

ALAN C. GUENTHER, P.E.
FL PE #53308

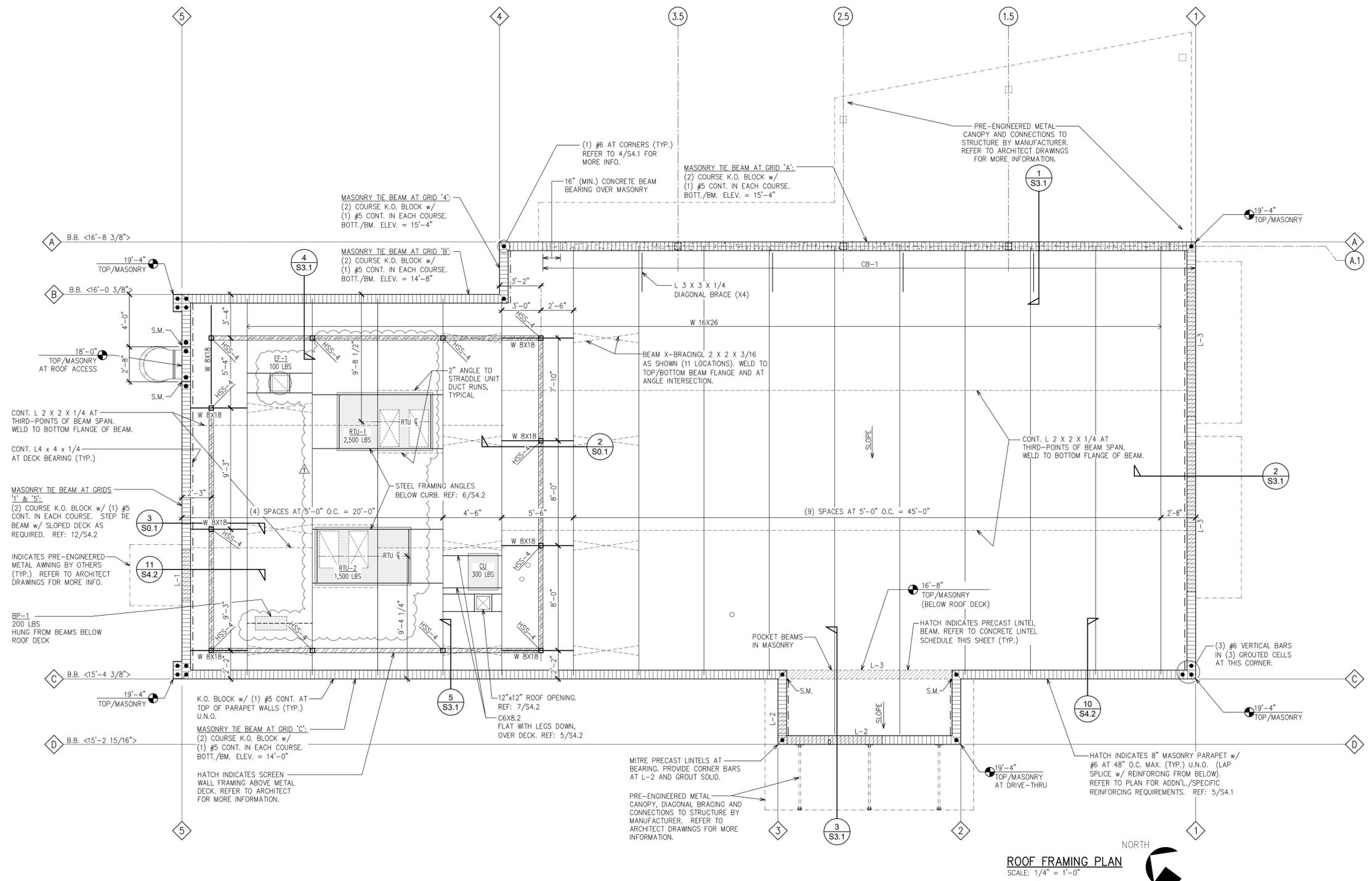
no.	date	revision descriptions
1	10.17.2023	REVISED PER BUILDING PERMIT COMMENTS & PERMIT COORD.

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PALM BAY, FL

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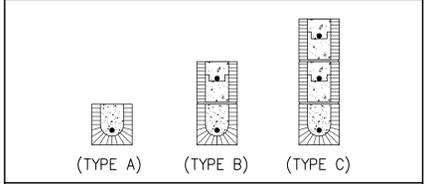
ROOF FRAMING
PLAN

S2.1



CONCRETE LINTEL SCHEDULE

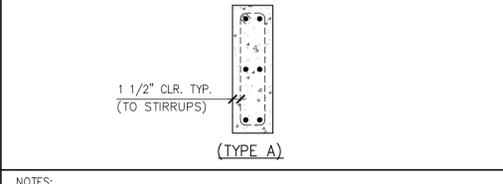
MARK	SIZE	REINFORCING BARS	COMMENTS
L-1	8" X 8"	(1) #5 CONT.	TYPE A
L-2	8" X 16"	(2) #5 CONT.	TYPE B
L-3	8" X 24"	(3) #5 CONT.	TYPE C



NOTES:
1. REFER TO 6/S4.1 FOR ADDITIONAL PRECAST LINTEL REQUIREMENTS.
2. ALL LINTELS AND KNOCK-OUT BLOCKS TO BE GROUTED SOLID.

CONCRETE BEAM SCHEDULE

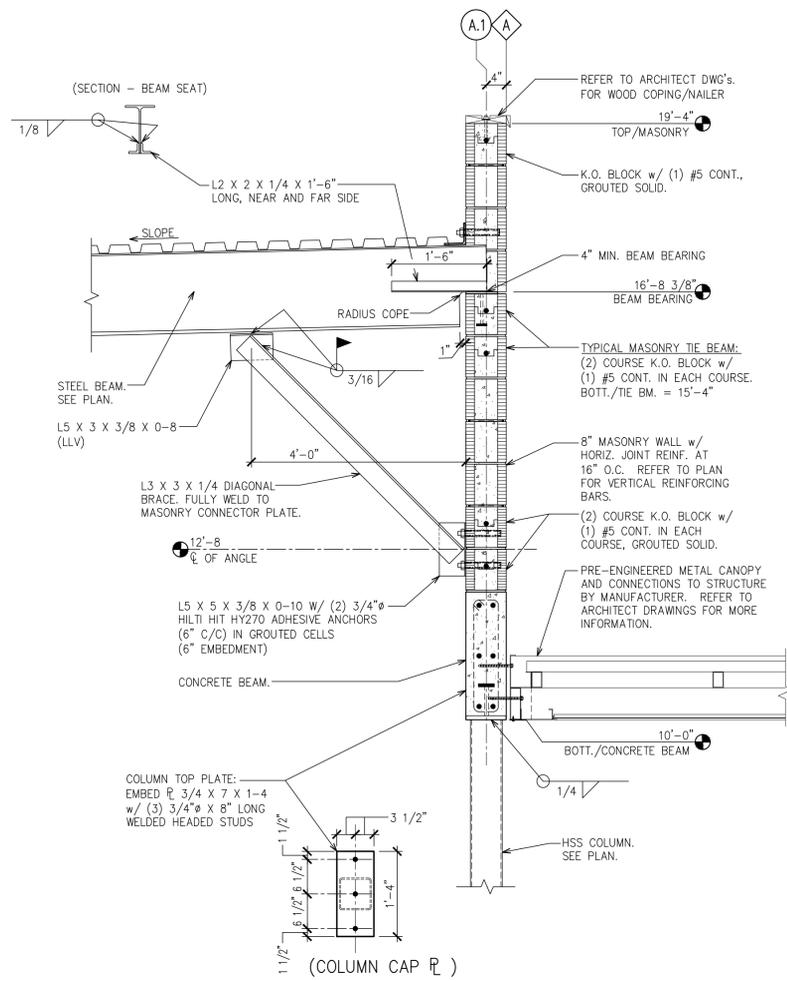
MARK	SIZE	REINFORCING		COMMENTS
		CONT. BARS	STIRRUPS	
CB-1	8" X 24"	(2) #6 TOP, MID., AND BOTTOM	#3 AT 8" O.C.	TYPE A (BOTTL./BM. = 10'-0")



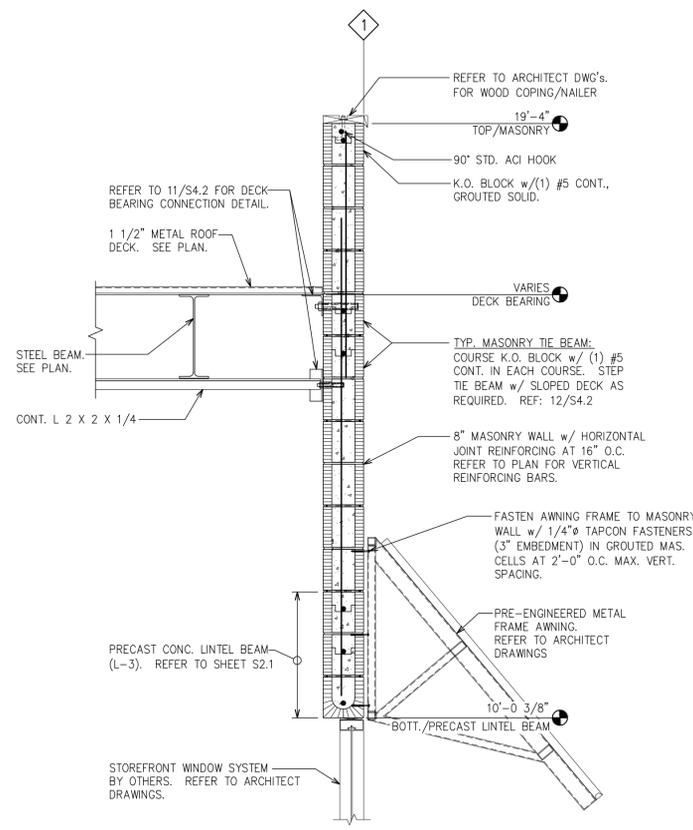
NOTES:
1. REFER TO 2/S4.2 FOR TYPICAL CONCRETE BEAM REINFORCING DETAIL.
2. BEAM DEPTHS MAY BE INCREASED AS REQUIRED FOR MASONRY COURSING. COORDINATE WITH ARCHITECTURAL REQUIREMENTS.

ROOF FRAMING PLAN NOTES:

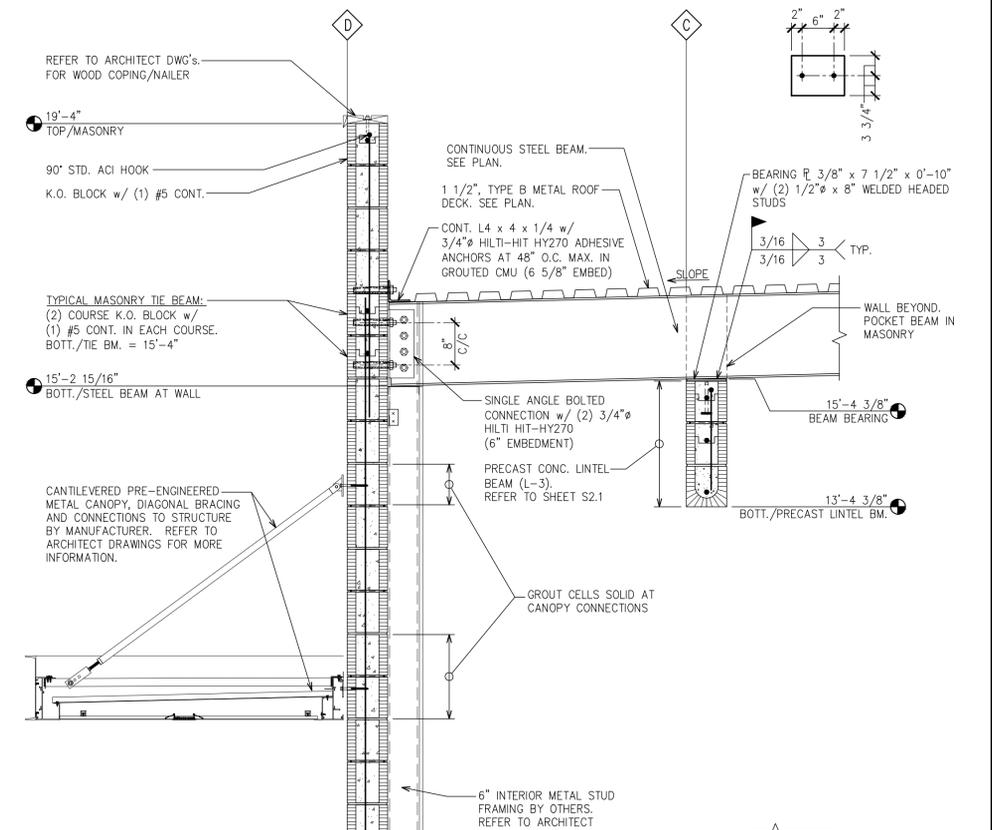
- METAL ROOF DECK AT MAIN BUILDING SHALL BE 1 1/2" DEEP, 22 GA., GALVANIZED (G60), TYPE "B". FASTEN ROOF DECK w/ (7) 5/8" DIAMETER PUDDLE WELDS AT EACH SUPPORT AND (5) #10 TEK SCREW SIDELAP FASTENERS EQUALLY SPACED BETWEEN SUPPORTS. REFER TO 4/S4.2
- BEAM SPACING = SEE PLAN
- ROOF SLOPE = 1/4" PER FOOT (MIN.) U.N.O.
- CONTRACTOR TO COORDINATE SIZE, WEIGHT, AND LOCATION OF MECHANICAL EQUIPMENT AND PENETRATIONS WITH MECHANICAL EQUIPMENT SHOP DRAWINGS PRIOR TO BEAM FABRICATION. REFER TO DETAILS 6/S4.2 AND 7/S4.2
- MECHANICAL CONTRACTOR SHALL VERIFY THAT WEIGHT OF ACTUAL EQUIPMENT INSTALLED DOES NOT EXCEED MAXIMUM OPERATING WEIGHT OF EQUIPMENT SHOWN ON PLAN.
- B.B. < > = BEAM BEARING ELEVATION U.N.O. REFER TO PLAN.
- S.M. = INDICATES STEP TOP/MASONRY PARAPET.
- REFER TO 1/S0.1 FOR DESIGN WIND CRITERIA.



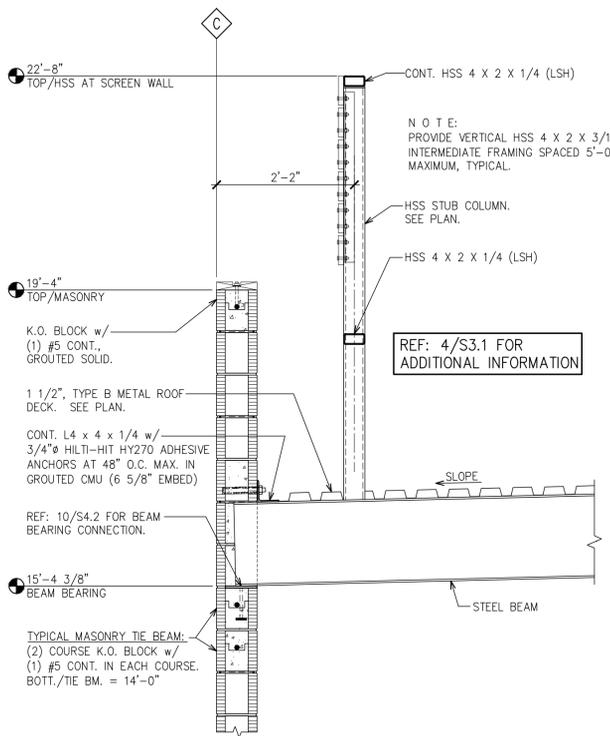
1 SECTION
SCALE: 3/4" = 1'-0"



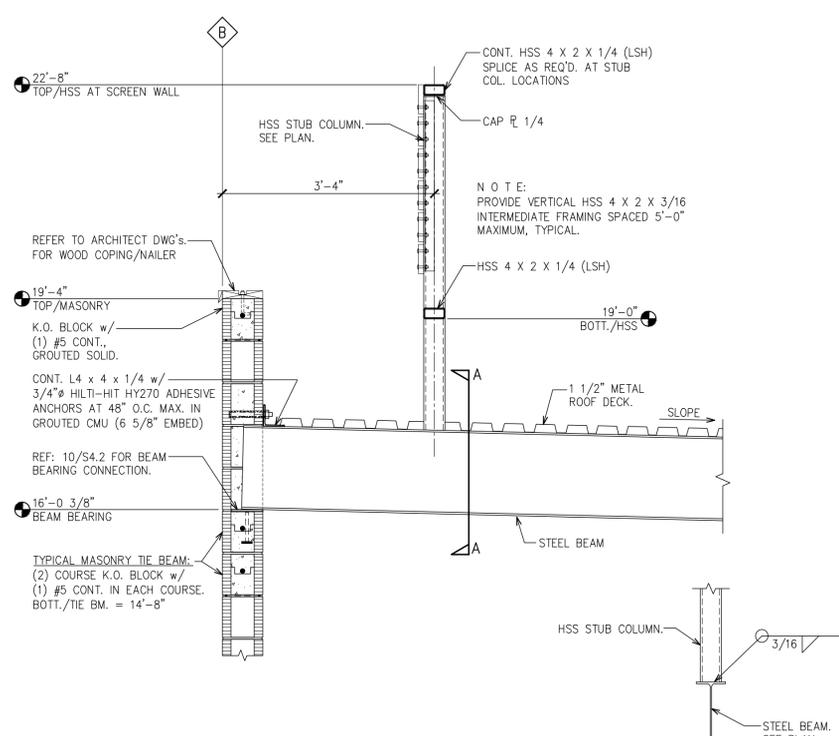
2 SECTION
SCALE: 3/4" = 1'-0"



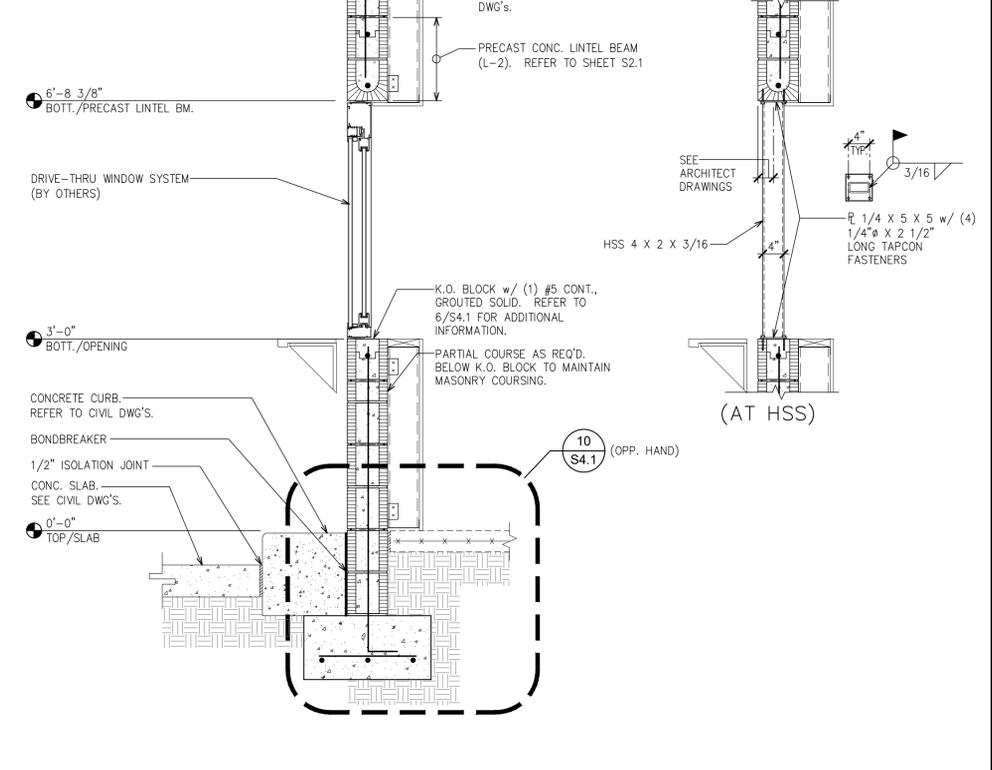
3 WALL SECTION
SCALE: 3/4" = 1'-0"



5 WALL SECTION
SCALE: 3/4" = 1'-0"

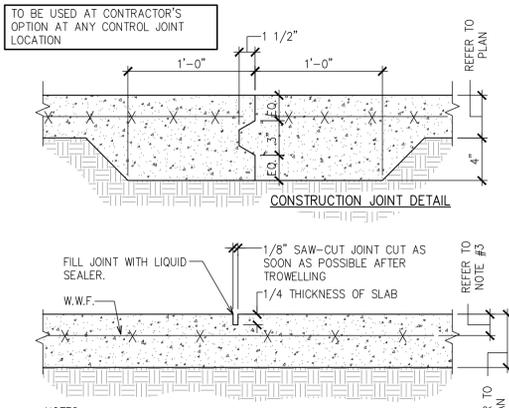


4 WALL SECTION
SCALE: 3/4" = 1'-0"



10 (OPP. HAND)
SCALE: 3/4" = 1'-0"

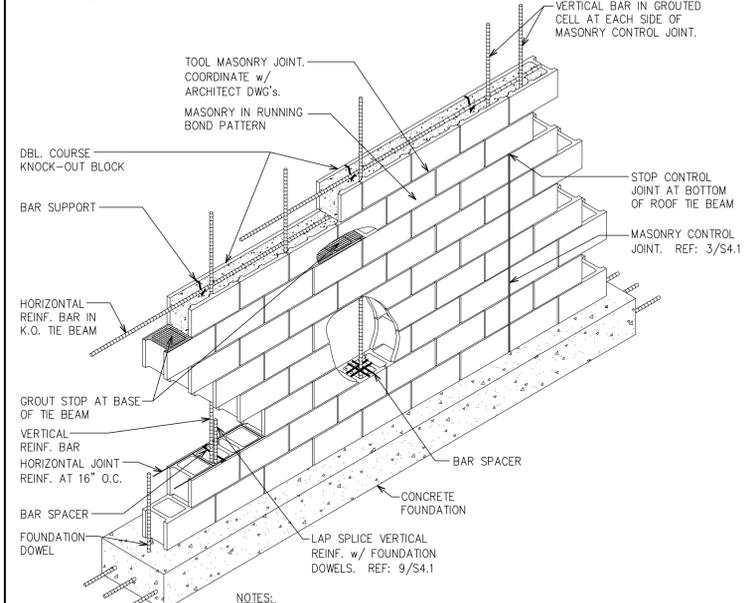
no.	date	revision descriptions



- TO BE USED AT CONTRACTOR'S OPTION AT ANY CONTROL JOINT LOCATION
1. CUT SLAB AS SOON AS AGGREGATE DOES NOT DISLODGE (MUST BE WITHIN 12 HOURS OF CONCRETE PLACEMENT).
2. HAND TOOL JOINT TO FACE OF WALL WHERE SAW DOES NOT REACH.
3. PLACE REINFORCING AT MID-DEPTH FOR SLABS LESS THAN 5" THICK. PLACE REINFORCING 1/3 SLAB DEPTH (FROM TOP) FOR SLABS 5" THICK OR GREATER.

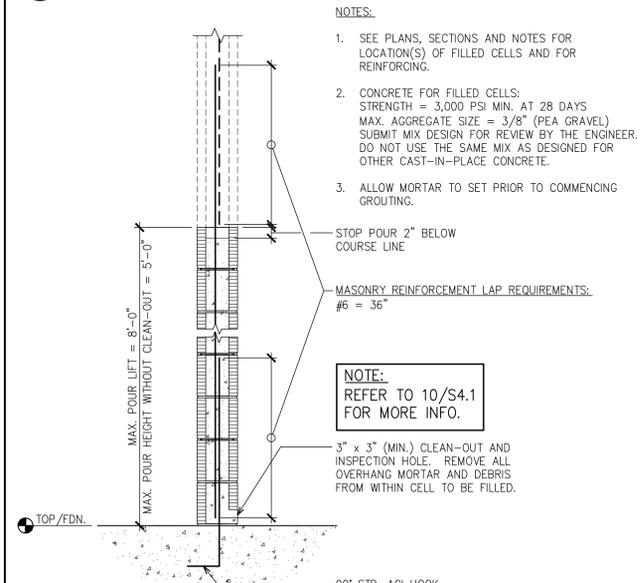
CONTROL JOINT DETAIL

1 FUTURE CONTROL AND CONSTRUCTION JOINT
SCALE: 1 1/2" = 1'-0"



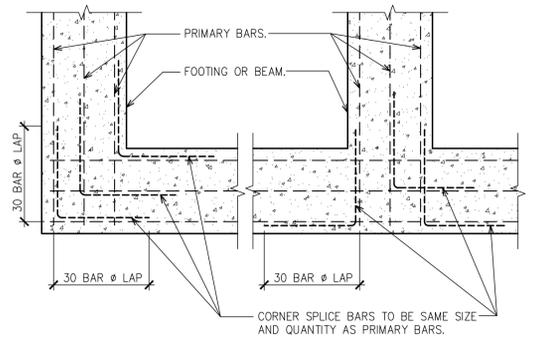
- NOTES:
1. PROVIDE FULL MORTAR JOINT AT BED AND HEAD JOINTS FOR FIRST COURSE OF BLOCK.
2. GROUT MASONRY SOLID BELOW GRADE.

5 TYPICAL MASONRY CONSTRUCTION
NOT TO SCALE



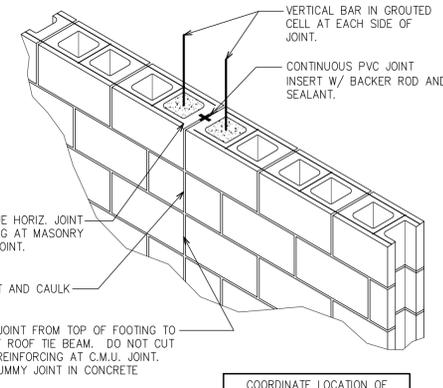
- NOTES:
1. SEE PLANS, SECTIONS AND NOTES FOR LOCATION(S) OF FILLED CELLS AND FOR REINFORCING.
2. CONCRETE FOR FILLED CELLS: STRENGTH = 3,000 PSI MIN. AT 28 DAYS MAX. AGGREGATE SIZE = 3/8" (PEA GRAVEL) SUBMIT MIX DESIGN FOR REVIEW BY THE ENGINEER. DO NOT USE THE SAME MIX AS DESIGNED FOR OTHER CAST-IN-PLACE CONCRETE.
3. ALLOW MORTAR TO SET PRIOR TO COMMENCING GROUTING.
- STOP POUR 2" BELOW COURSE LINE
- MASONRY REINFORCEMENT LAP REQUIREMENTS: #6 = 36"
- NOTE: REFER TO 10/S4.1 FOR MORE INFO.
- 3" x 3" (MIN.) CLEAN-OUT AND INSPECTION HOLE. REMOVE ALL OVERHANG MORTAR AND DEBRIS FROM WITHIN CELL TO BE FILLED.

9 MASONRY LIFT DETAIL
SCALE: 3/4" = 1'-0"



TYPICAL INTERSECTION OF CORNER BARS AT WALLS, BEAMS, AND FOOTINGS

2 CORNER BAR DETAIL
NOT TO SCALE



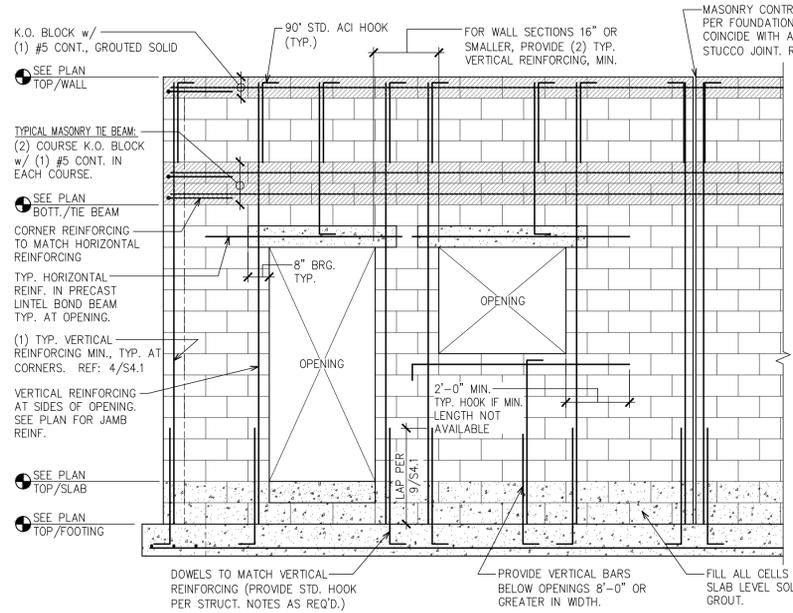
DISCONTINUE HORIZ. JOINT REINFORCING AT MASONRY CONTROL JOINT.

RAKE JOINT AND CAULK

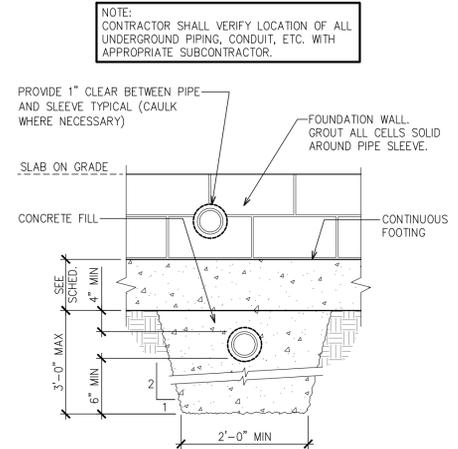
CONTINUE JOINT FROM TOP OF FOOTING TO BOTTOM OF ROOF TIE BEAM. DO NOT CUT TIE BEAM REINFORCING AT C.M.U. JOINT. PROVIDE DUMMY JOINT IN CONCRETE BEAMS.

COORDINATE LOCATION OF MASONRY CONTROL JOINTS WITH ARCHITECTURAL ELEVATIONS.

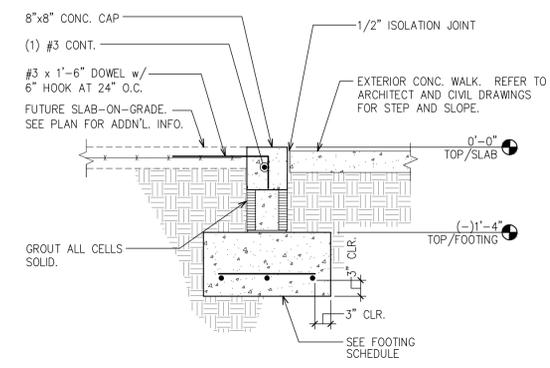
3 MASONRY CONTROL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



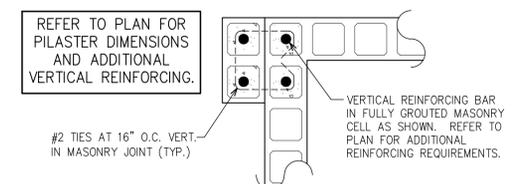
6 TYPICAL MASONRY REINFORCING AT OPENINGS - ELEVATION
NOT TO SCALE



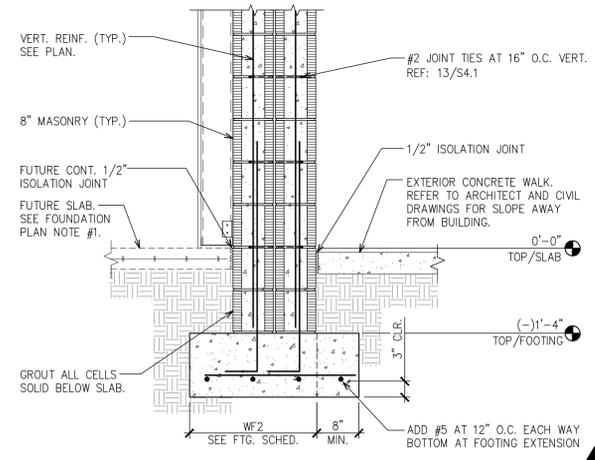
7 FOUNDATION DETAIL AT PENETRATION
NOT TO SCALE



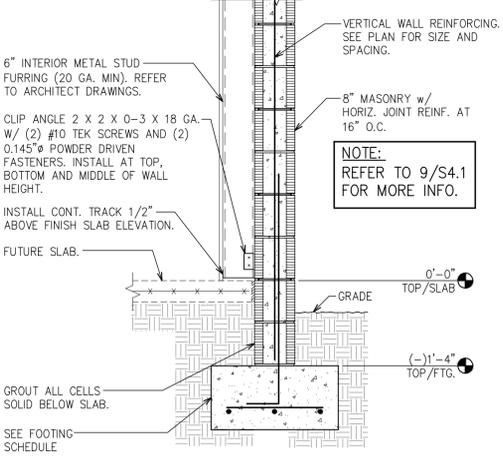
8 SECTION
SCALE: 3/4" = 1'-0"



13 ENLARGED PILASTER DETAIL - PLAN VIEW
SCALE: 3/4" = 1'-0"



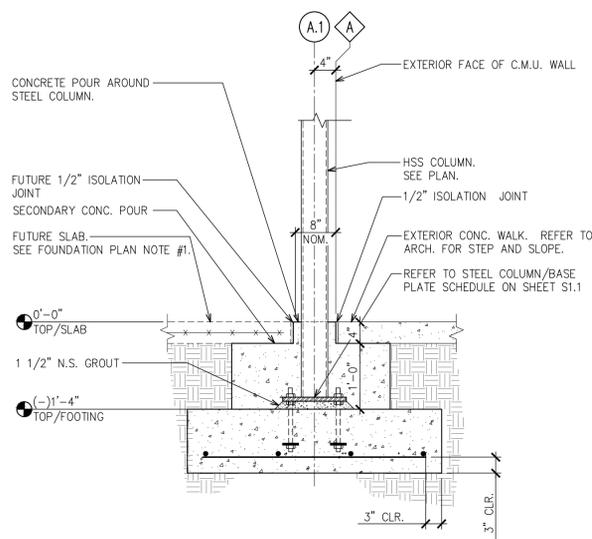
12 SECTION
SCALE: 3/4" = 1'-0"



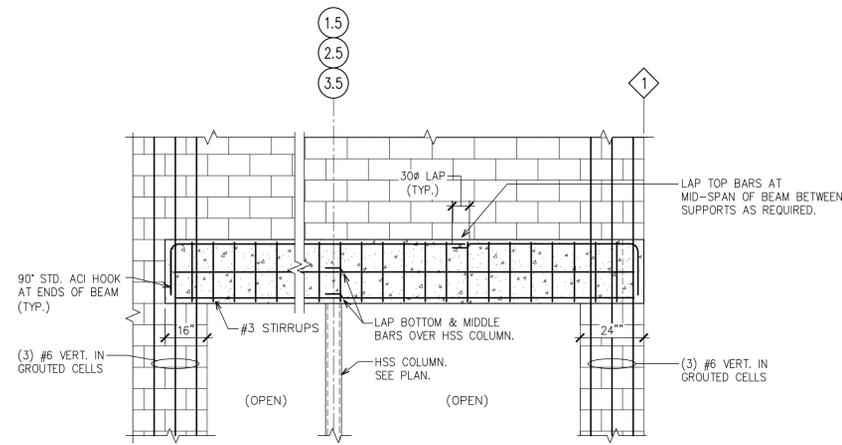
10 EXTERIOR WALL FOOTING
SCALE: 3/4" = 1'-0"

11 NOT USED

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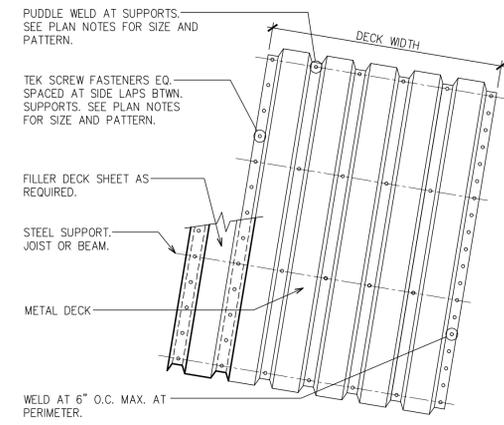


1 STEEL COLUMN FOUNDATION
SCALE: 3/4" = 1'-0"



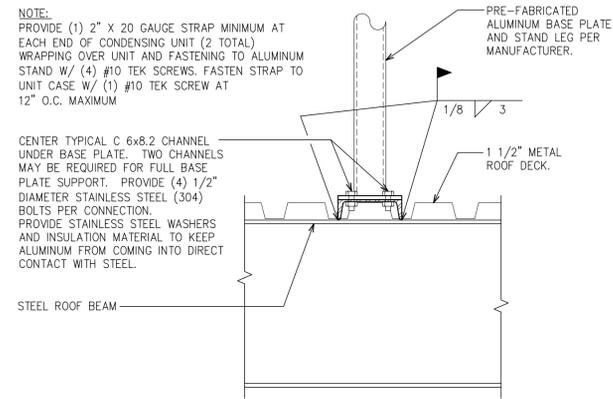
2 CONCRETE BEAM REINFORCING DETAIL
NOT TO SCALE

3 NOT USED

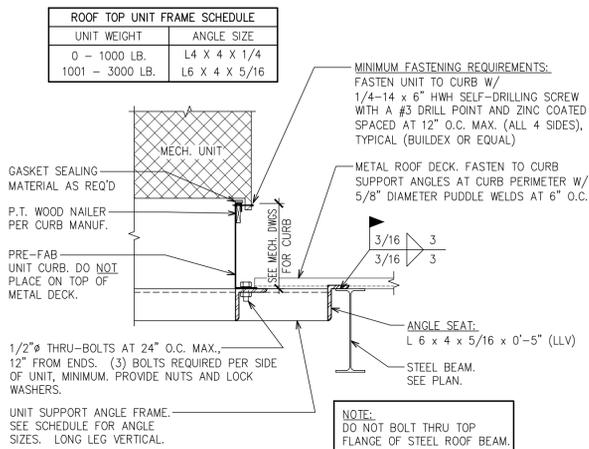


- NOTES:
1. MINIMUM DECK BEARING AT END SUPPORTS = 2 1/2"
 2. MINIMUM DECK LAP OVER SUPPORTS = 2"

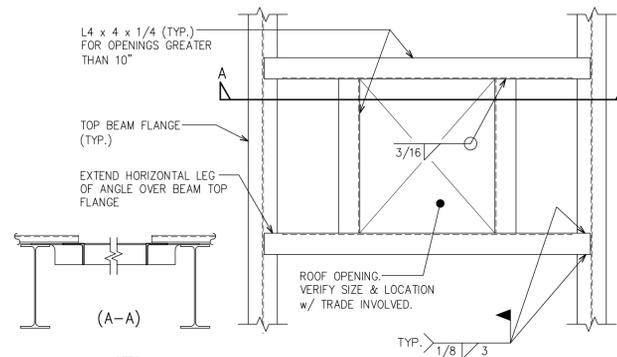
4 METAL DECK ATTACHMENT
NOT TO SCALE



5 CONDENSING UNIT SUPPORT DETAIL
SCALE: 1 1/2" = 1'-0"

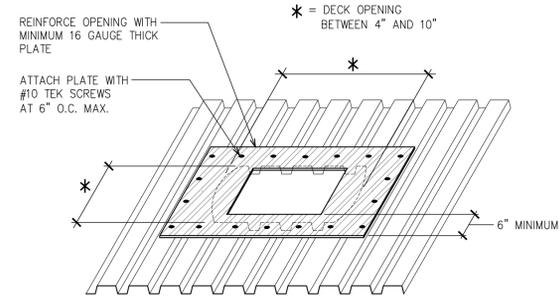


6 MECHANICAL UNIT SUPPORT DETAIL
NOT TO SCALE

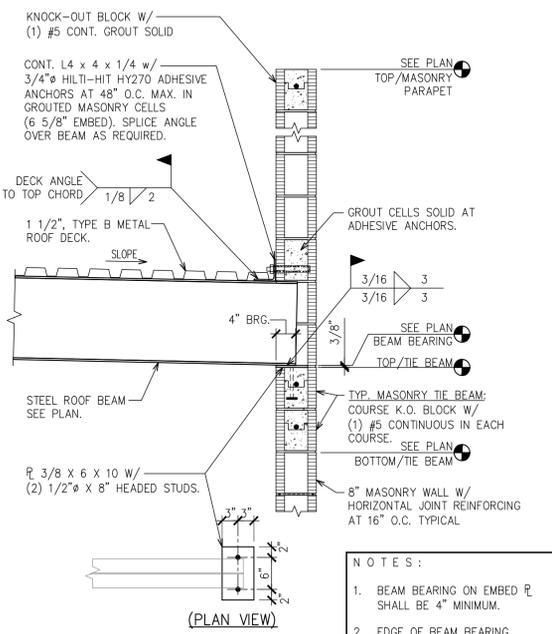


- NOTES:
1. LOCATE L4 x 4 x 1/4 FRAMES AROUND ALL ROOF OPENINGS GREATER THAN 10".
 2. CONTRACTOR SHALL VERIFY LOCATION AND SIZE OF OPENINGS PRIOR TO STEEL FABRICATION.
 3. REFER TO 8/S4.2 FOR DECK OPENINGS BETWEEN 4" AND 10".
 4. NOT INTENDED FOR ROOF TOP MECHANICAL EQUIPMENT SUPPORT. REFER TO 6/S4.2 FOR ANGLES SUPPORTING MECHANICAL UNITS.

7 ROOF OPENING
NOT TO SCALE

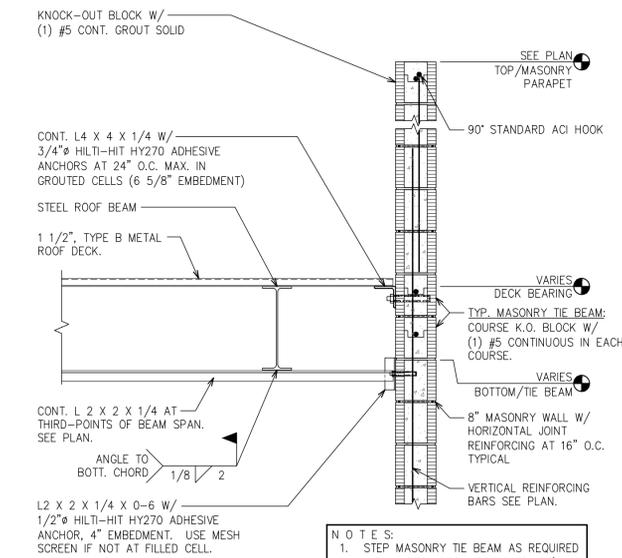


8 DECK REINFORCEMENT AT UNFRAMED ROOF OPENING
NOT TO SCALE



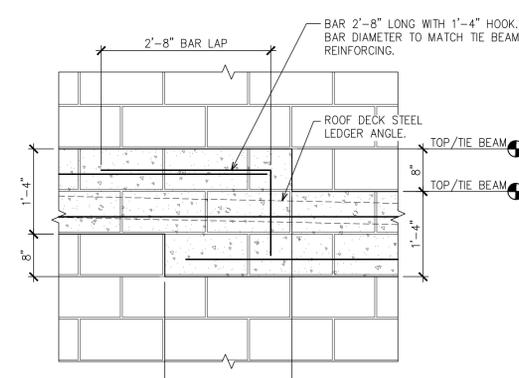
- NOTES:
1. BEAM BEARING ON EMBED R SHALL BE 4" MINIMUM.
 2. EDGE OF BEAM BEARING EMBED R SHALL BE FLUSH WITH INSIDE FACE OF MASONRY.

10 BEAM BEARING
SCALE: 3/4" = 1'-0"



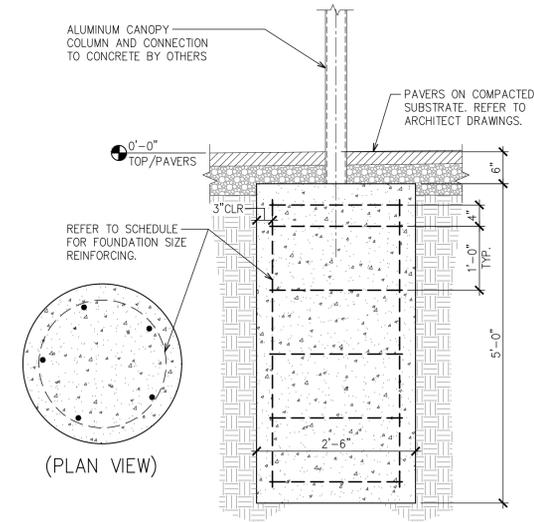
- NOTES:
1. STEP MASONRY TIE BEAM AS REQUIRED WITH SLOPED DECK. REFER TO 12/S4.2.

11 DECK BEARING
SCALE: 3/4" = 1'-0"



- NOTES:
1. TYPICAL MASONRY TIE BEAM SHALL BE (2) COURSE KNOCK-OUT BLOCK WITH (1) #5 CONTINUOUS IN EACH COURSE AND GROUTED SOLID.
 2. STEP THE BEAM A MAXIMUM OF 8". LOCATE THE BEAM STEPS AS REQUIRED WITH SLOPED DECK LEDGER ANGLE.

12 MASONRY TIE BEAM - STEP
NOT TO SCALE



13 SECTION
SCALE: 3/4" = 1'-0"

no.	date	revision descriptions

MECHANICAL SPECIFICATIONS

SCOPE: THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING A PROPOSAL. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODES SEVENTH EDITION (2020), WITH ALL AMENDMENTS, AND LOCAL CODES AND ORDINANCES. THE SYSTEMS, EQUIPMENT, DEVICES AND ACCESSORIES SHALL BE INSTALLED, FINISHED, TESTED AND ADJUSTED FOR CONTINUOUS AND PROPER OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE AND SHALL COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCE WITH THEIR WORK. THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THE DRAWINGS ARE DIAGRAMMATIC, INTENDED TO SHOW GENERAL ARRANGEMENT, CAPACITY AND LOCATION OF VARIOUS COMPONENTS, EQUIPMENTS, AND DEVICES. IF WORK IS REQUIRED IN A MANNER TO MAKE IT IMPOSSIBLE TO PRODUCE FIRST CLASS WORK, OR SHOULD DISCREPANCIES APPEAR AMONG THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S RECOMMENDATIONS, THE CONTRACTOR SHALL REQUEST INTERPRETATION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL FURNISH AND INSTALL ALL MINOR ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY TO COMPLETE THE INSTALLATION WHETHER OR NOT SPECIFIED IN THE DOCUMENTS.

REQUIRED COORDINATION: ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS AND PIPING (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION PLANS: IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.

REQUIRED ACCESS: CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT AND DEVICES THAT REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR REMOVAL OF INTERNAL ASSEMBLIES, IF REQUIRED. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS, EVEN IF NOT INDICATED ON THE DRAWINGS AT NO ADDITIONAL COST TO OWNER.

WIND RESISTANCE: ALL EQUIPMENT, APPLIANCE AND SUPPORTS LOCATED EXTERIOR OF THE FACILITY SHALL BE INSTALLED TO RESIST WIND LOADS AS DETAILED IN THE BUILDING CODE.

CUTTING AND PATCHING: ALL OPENINGS AROUND DUCT OR PIPE PENETRATIONS THROUGH SMOKE OR FIRE RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIALS HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING OR FLOOR PENETRATED.

EQUIPMENT TAGS: ALL EQUIPMENT WILL HAVE A PERMANENTLY FIXED ENGRAVE PHENOLIC LABEL CORRESPONDING TO THE EQUIPMENT TAG ON THE ENGINEER'S DRAWINGS.

FIRESTOPPING: UL APPROVED MATERIALS AND METHODS SHALL PROTECT THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS, CEILINGS OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL EQUAL THE RATING OF THE RATED ASSEMBLY. ALL INSULATION SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM E-84, NFPA-225, UL-723 NOT EXCEEDING:

FLAME SPREAD 25
 SMOKE DEVELOPED 50
 FUEL DISTRIBUTED 50
 ACCESSORIES SUCH AS ADHESIVE, MASTIC, CEMENTS AND TAPES SHALL HAVE THE SAME COMPONENT RATING AS LISTED ABOVE.

START-UP: CONTRACTOR SHALL STARTUP ALL EQUIPMENT AND FOLLOW THE MANUFACTURER'S START-UP PROCEDURES.

OPERATING AND MAINTENANCE DATA: SUBMIT THREE COPIES OF MANUFACTURER'S OPERATING AND MAINTENANCE INSTRUCTIONS AND SPARE PARTS LIST FOR EACH PIECE OF EQUIPMENT.

CONDENSATE DRAIN PIPING: CONDENSATE DRAIN PIPING SHALL BE PVC TYPE DWV. DRAINS SHALL BE PITCHED NOT LESS THAN 1" IN 10'. RUNS SHALL BE AS SHORT AS POSSIBLE WITHOUT ANY DIPS TO TRAP WATER AND INTERFERE WITH PROPER DRAINAGE. PROVIDE TRAPS AND CLEANOUTS AT DRAIN PAN CONNECTIONS. RUN CONDENSATE DRAIN PER PLANS.

DIMENSIONAL DATA: ALL DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

SUPPLEMENTARY SUPPORTS: CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS, IN ORDER TO PROVIDE A "VIBRATION-FREE" RIGID INSTALLATION.

DUCTWORK - GENERAL: FABRICATE AND INSTALL ALL DUCTWORK AND DUCT ACCESSORIES IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE, THE LATEST NFPA STANDARDS, AND THIS SPECIFICATION. THE MOST STRINGENT OF THESE SHALL BE THE MINIMUM STANDARD. MINIMUM OF 2" PRESSURE CLASS RATING FOR ALL FIBERGLASS DUCTWORK AND 2" FOR ALL SHEET METAL.

ALL NEW RIGID DUCTWORK SHALL BE GALVANIZED SHEET METAL STEEL OF LOCKFORMING GRADE CONFORMING TO ASTM A653 AND ASTM A924. G-60 ZINC COATING. REFER TO INSULATION SECTION BELOW FOR INSULATION REQUIRED ON SUPPLY AND RETURN DUCTWORK.

DUCTWORK INSTALLATION: ALL INTERIOR DUCTWORK SHALL BE SEALED TO SMACNA CLASS (C) REQUIREMENTS. PROVIDE DOUBLE THICKNESS TURNING VANES IN ALL NINETY (90) DEGREE SQUARE ELBOWS. CONTRACTOR SHALL FURNISH AND INSTALL ALL DUCT OFFSETS AS REQUIRED TO CLEAR INTERFERENCES WITH EXISTING BUILDING STRUCTURE, PIPES AND ELECTRICAL CONDUITS. FURNISH AND INSTALL ALL MISCELLANEOUS STEEL SUPPORTS REQUIRED FOR HANGING AND SUPPORTING DUCTWORK UNLESS OTHERWISE NOTED.

INSULATION: ASSURE ALL DUCTWORK IS SEALED PRIOR TO INSTALLING INSULATION. ALL SHEET METAL SUPPLY & RETURN DUCTWORK SHALL BE WRAPPED WITH 2" THICK FIBERGLASS BLANKET INSULATION WITH FSK (ASJ) FACING, MINIMUM INSTALLED R VALUE OF 6.0, AND FLAME SPREAD/SMOKE DEVELOPED RATINGS OF 25/50 BY ASTM E-84. ALL SHEET METAL SUPPLY & RETURN DUCTWORK SHALL ALSO BE LINED WITH 1.5" ACOUSTICAL DUCT LINER, TO BE UL-181 LISTED. INSTALL INSULATION ON DUCTWORK USING ADHESIVE AND/OR WELD PINS WITH WASHERS. SEAL ALL INSULATION JOINTS, SEAMS AND FASTENER PIN PENETRATIONS WITH VAPOR RETARDING PRESSURE SENSITIVE TAPE OR WITH GLASS FABRIC AND MASTIC.

SMOKE DETECTORS: INSTALL SMOKE DETECTORS AS RECOMMENDED BY MANUFACTURER TO ACQUIRE PROPER READINGS. LOCATION OF DUCT MOUNTED SMOKE DETECTORS ARE FOR REFERENCE LOCATION ONLY. FINAL PLACEMENT SHALL MEET ALL REQUIREMENTS IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE 12"x12" ACCESS DOOR FOR INSPECTION AND SERVICE. SMOKE DETECTORS SHALL BE FURNISHED & WIRED BY ELECTRICIAN/FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. WIRE SMOKE DETECTORS TO SHUTOFF UNIT WITH THE DETECTION OF SMOKE.

CONTROLS: PROVIDE CONTROLS COMPLETE TO SUIT THE EQUIPMENT PROVIDED AND TO ACCOMPLISH THE SEQUENCE OF OPERATION AS REQUIRED BY PLANS AND SYSTEMS. LOCATE THERMOSTATS 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. THERMOSTATIC CONTROLS SHALL BE PROGRAMMABLE TO INCLUDE ALL ITEMS REQUIRED BY 2014 FBC-ENERGY CODE.

TESTING AND BALANCING: THE CONTRACTOR SHALL ENSURE THAT ALL DEVICES AND SYSTEMS ARE COMPLETE, TESTED AND BALANCED, AND READY FOR OPERATION WHEN THE FACILITY IS HANDED OVER TO THE OWNER. THE AIR CONDITIONING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH AABC OR NEBB PROCEDURES. WRITTEN REPORT SHALL BE SUBMITTED TO MECHANICAL ENGINEER FOR APPROVAL.

SUBMITTALS REQUIRED: SUBMIT SHOP DRAWINGS FOR ALL MATERIALS, EQUIPMENT, AND SYSTEMS REQUIRED BY THESE DOCUMENTS (SEE ARCH. PLANS/SPECS FOR SPECIFIC FORMATTING), INCLUDING:
 ROOFTOP UNITS
 EXHAUST FANS
 ROOF A/C STANDS
 DUCTWORK & SHEET METAL ACCESSORIES (CONNECTIONS, MASTICS, ETC.)
 THERMOSTATS & CONTROLS

SUBSTITUTIONS: RTU'S MUST BE MANUFACTURED BY TRANE - NO EXCEPTIONS! FOR ALL OTHER EQUIPMENT, CONTRACTOR SHALL PAY FOR ANY AND ALL ADDED COSTS ASSOCIATED WITH ANY SUBSTITUTION, INCLUDING SUBSTITUTIONS THAT REQUIRE CHANGES TO THE OTHER BUILDING COMPONENTS, SUCH AS ELECTRICAL, STRUCTURAL REINFORCING, CEILINGS, WALLS, ROOFS, ETC. THIS WILL INCLUDE ANY ENGINEERING/ARCHITECTURAL RE-DESIGN COSTS AS A RESULT OF SAID SUBSTITUTION. THESE COSTS SHALL NOT BE BORNE BY THE OWNER, ARCHITECT, NOR ENGINEER, REGARDLESS OF ACCEPTABILITY OF SUBSTITUTION. ENGINEER RESERVES THE RIGHT TO ACCEPT OR DENY ANY SUBSTITUTION THAT HE DOES NOT DEEM TO BE EQUIVALENT, AND CONTRACTOR SHALL PROVIDE SPECIFIED OR EQUIVALENT MATERIALS/EQUIPMENT AT NO ADDITION COST TO OWNER, SHOULD A SUBSTITUTION BE DENIED.

GUARANTEE: THE ONE-YEAR GUARANTEE PERIOD SHALL NOT START UNTIL THE PROJECT IS FULLY COMPLETED AND THE CONTRACTOR HAS RECEIVED THE FINAL PAYMENT. ALL NEW EQUIPMENT AND ALL WORK SHALL BE FULLY GUARANTEED, PARTS AND LABOR, FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM THE DATE OF THE FINAL PAYMENT, AT NO ADDITIONAL COST TO OWNER. REPAIRS MADE DURING THIS PERIOD MUST BE FULLY GUARANTEED FROM DEFECTS IN MATERIAL AND WORKMANSHIP AT NO EXPENSE TO THE OWNER, FOR AN ADDITIONAL ONE YEAR PERIOD FROM THE DATE OF REPAIRS AT NO ADDITIONAL COST TO OWNER. IN ADDITION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDING, AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIAL INSTALLED. ALL NEW HVAC UNITS SHALL INCLUDE 5-YEAR WARRANTY ON COMPRESSORS AND 1-YEAR WARRANTY ON ALL OTHER PARTS AND LABOR FOR UNIT.

HVAC LEGEND	
	NEW DUCTWORK, WITH SIZE LISTED
	DUCT SMOKE DETECTOR
	THERMOSTAT BASE
	CARBON DIOXIDE SENSOR
	BRITISH THERMAL UNITS / HOUR
	ROUND, DIAMETER
	CONDENSATE DRAIN PIPING
	CUBIC FEET PER MINUTE
	TYPICAL - ITEM OR METHOD
	REMOTE SENSOR
	SUPPLY AIR DIFFUSER OR GRILLE
	RETURN/EXH. AIR REGISTER OR GRILLE
	FLEXIBLE DUCT
	AIRFLOW DIRECTION
	ABOVE FINISHED FLOOR
	ROUND DUC T TAKE-OFF WITH VOLUME DAMPER
	MANUAL VOLUME DAMPER (W/HANDLE)
	DIFFUSER TAG
	EQUIPMENT TAG



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TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEER, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY ORDINANCES.



no.	date	revision descriptions
1		

STARBUCKS SHELL CONSTRUCTION
 BAYSIDE LAKES BLVD
 PALM BAY, FL

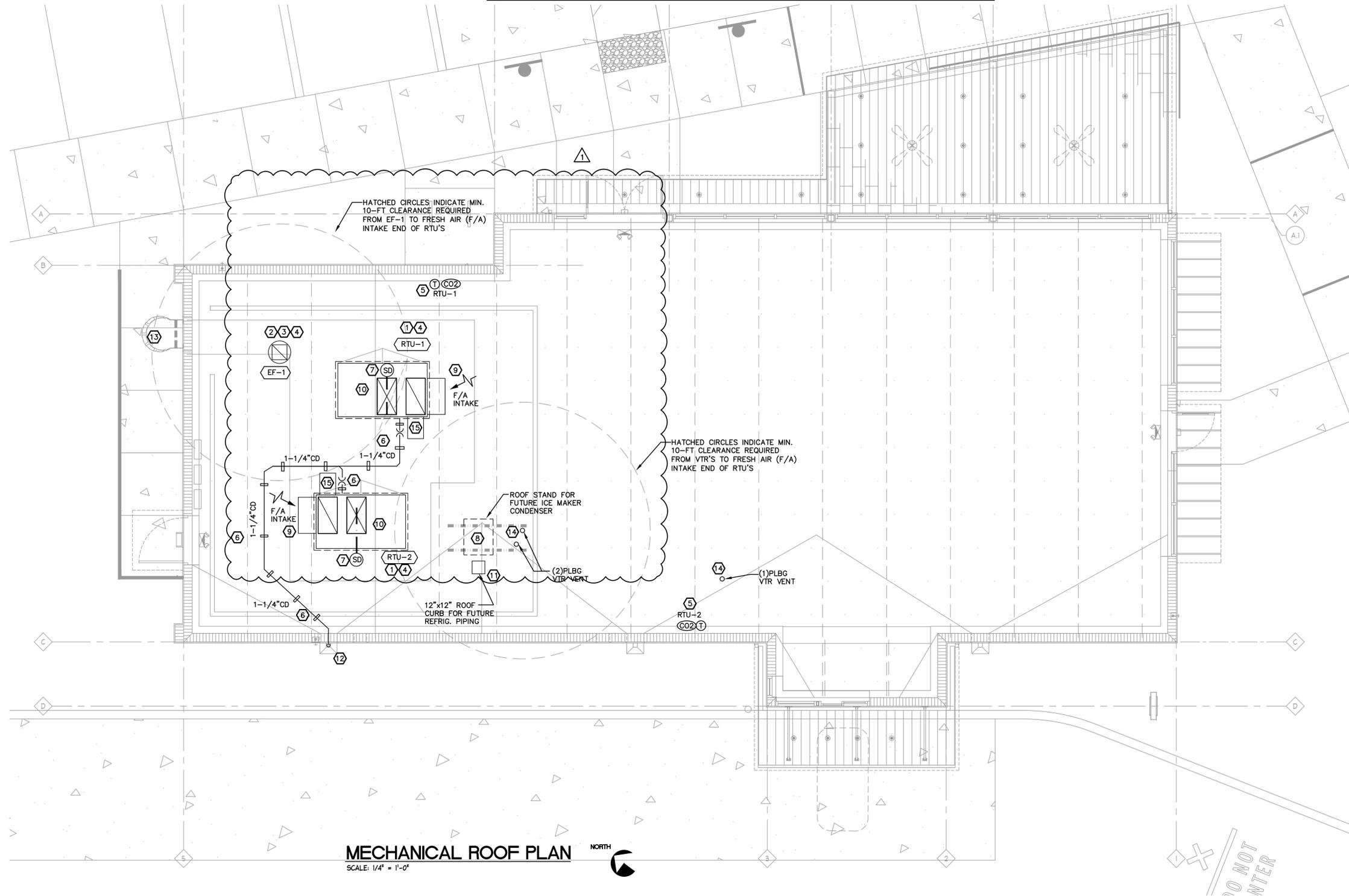
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MECHANICAL SPECIFICATIONS

M1.0

KEY NOTES ON PLANS:

- 1 PACKAGED ROOFTOP A/C UNIT - COORDINATE FINAL LOCATION WITH G.C.
- 2 ROOF MOUNT EXHAUST FAN - LOCATE MIN. 10-FT FROM RTU INTAKES.
- 3 PROVIDE 4-FT LONG FULL SIZE (MIN. 12"x12") DUCT DROP DOWN BELOW ROOF.
- 4 COORDINATE UNIT INSTALLATION REQUIREMENTS WITH G.C. AND STRUCTURAL PLANS AND DETAILS.
- 5 INSTALL THERMOSTAT & CO2 SENSOR TEMPORARILY ON WALL WITH 150-FT EXTRA WIRING COILED AT UNIT. (TYPICAL)
- 6 ROUTE CONDENSATE PIPING ON ROOF PIPE SUPPORTS AT 4-FT INTERVALS.
- 7 INSTALL DUCT SMOKE DETECTOR IN SUPPLY DUCT DROP. (TYPICAL-2 RTU'S)
- 8 MECHANICAL CONTRACTOR SHALL FURNISH AND G.C. TO INSTALL NEW ROOF STAND FOR FUTURE TENANT ICE MACHINE CONDENSER.
- 9 OUTSIDE AIR INTAKE ON THIS END OF RTU - COORDINATE INSTALL TO ENSURE MIN. 10-FT CLEAR FROM EXHAUST FAN AND PLUMBING VENT STACKS.
- 10 PROVIDE 4-FT LONG FULL-SIZE DUCT DROPS WITH OPEN ENDS INTO CEILING CAVITY FOR FUTURE TENANT CONNECTION.
- 11 12"x12" PIPE CURB FOR FUTURE ICE MACHINE CONDENSER.
- 12 SPILL CONDENSATE MANIFOLD THROUGH SCUPPER AND INTO DOWNSPOUT. (CONNECTS TO UNDERGROUND STORM)
- 13 PERMANENT LADDER ON WALL FOR ROOF ACCESS WITH OPENING IN PARAPET.
- 14 PLUMBING VENT THROUGH ROOF LOCATED 10-FT FROM ALL FRESH AIR INTAKES.
- 15 POWER EXHAUST LOCATED ON SIDE OF RTU.



MECHANICAL ROOF PLAN
 SCALE: 1/4" = 1'-0"



REVISED PER BUILDING PERMIT COMMENTS & TENANT CORRD.	no.	date	revision descriptions
10/17/2023	1		

STARBUCKS
SHELL CONSTRUCTION
 BAYSIDE LAKES BLVD
 PALM BAY, FL

12.02.2022
 date
 22032
 comm. no.
 MECHANICAL
 ROOF PLAN

M2.0

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECT AND ENGINEER, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY ORDINANCES.



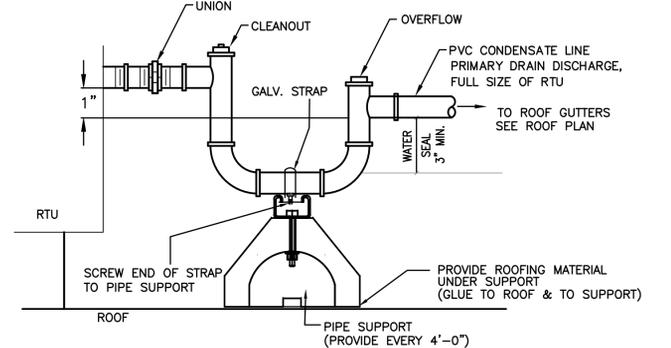
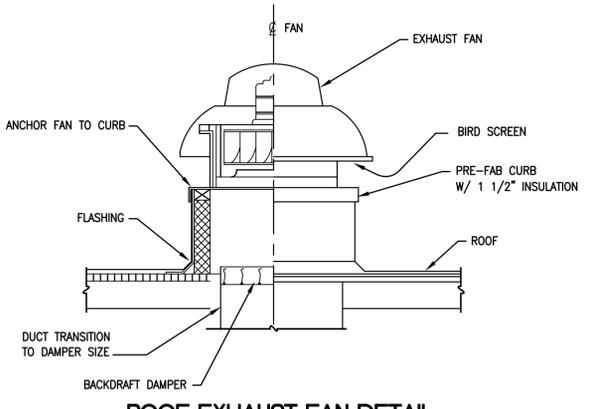
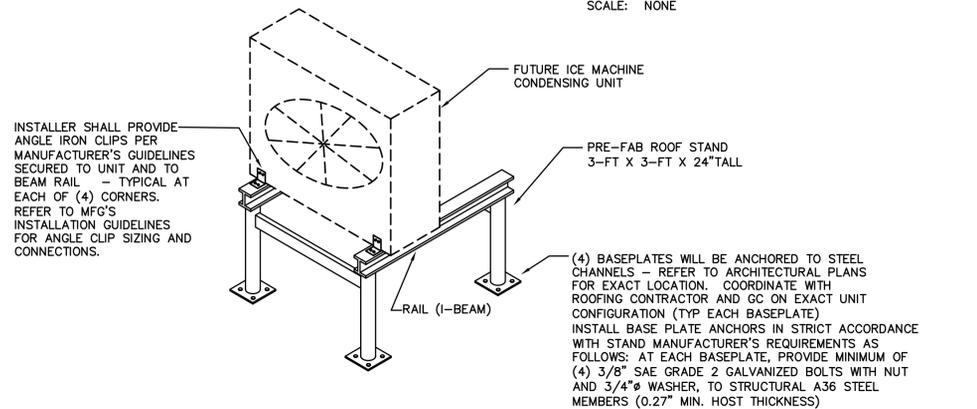
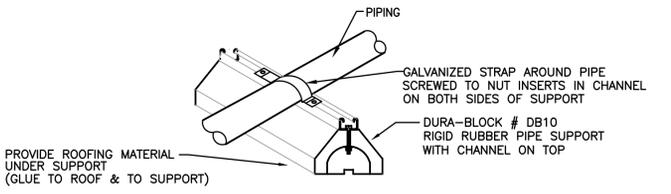
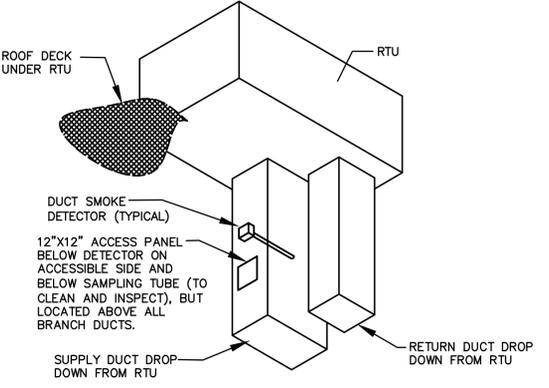
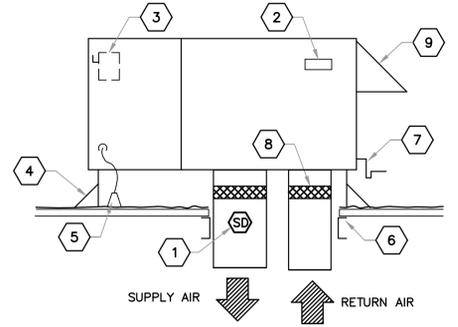
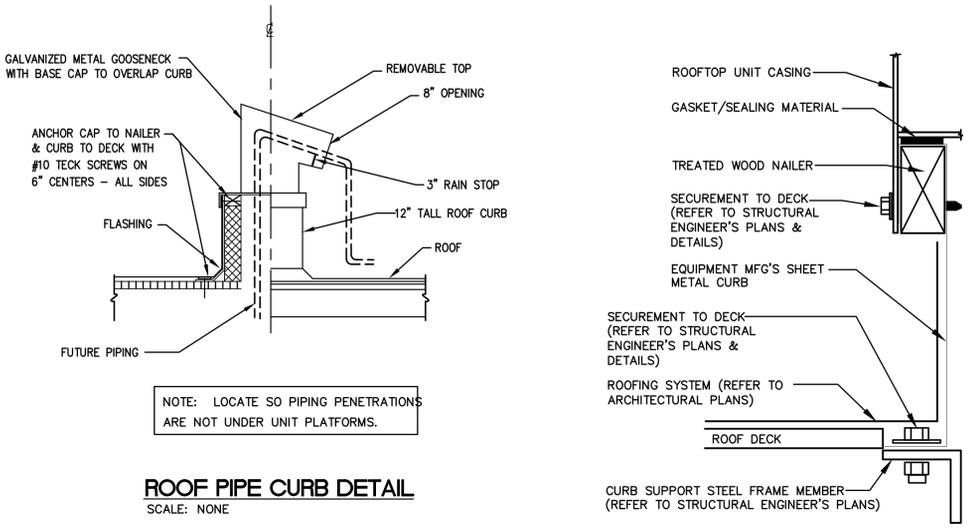
NO.	REVISION DESCRIPTIONS	DATE

STARBUCKS SHELL CONSTRUCTION
 BAYSIDE LAKES BLVD
 PALM BAY, FL

12.02.2022
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MECHANICAL DETAILS & SCHEDULES

M3.0



EXHAUST FAN SCHEDULE NO SUBSTITUTIONS ALLOWED FOR FAN

GENERAL				CONSTRUCTION							
MARK	CFM	SONES	ESP (IN-WG)	ELEC.	MOTOR	DRIVE	TYPE FAN	MANUF.	MODEL	WEIGHT (lbs)	NOTES
EF-1	600	7.4	0.5	120V/1PH	1/4-HP	DIRECT	ROOF DNBLAST	GREENHECK	G-095-VG	22	① ②

NOTE: ① PROVIDE FAN WITH 18" TALL INSULATED ROOF CURB, DOWNBLAST HOUSING, FAN SPEED CONTROLLER AT FAN UNDER HOOD, AND BACKDRAFT DAMPER.
 ② DISCONNECT BY ELECTRICIAN. INTERLOCK FOR OPERATION BY FUTURE TENANT CONTRACTOR.

SEQUENCE OF OPERATIONS FOR HVAC EQUIPMENT

SUPPLY FANS: THE EVAPORATOR FAN WILL RUN CONTINUOUSLY DURING OCCUPIED HOURS, AND CYCLE ON/OFF WITH COOLING/HEATING WHEN IN UN-OCCUPIED MODE, ACCORDING TO THERMOSTAT PROGRAMMING, AND SUBJECT TO FIRE ALARM SHUTDOWN (DUCT SMOKE DETECTOR).

OUTSIDE AIR DAMPER: THE DAMPER CLOSES WHEN THE UNIT IS OFF. DAMPER SHALL OPEN TO MINIMUM POSITION WHEN SUPPLY FAN STARTS TO AND STAY OPEN DURING OCCUPIED MODE. IF CO2 SENSOR MEASURES OVER 800-PPM (OR USER PROGRAMMING), THEN THE DAMPER SHALL OPEN TO FULLY BALANCED POSITION. ECONOMIZER MODE FOR 100% FRESH AIR, SHALL BE AVAILABLE WHEN OUTSIDE CONDITIONS HAVE LOWER ENTHALPY THAN INTERIOR (28.0-BTU PER LB OF DRY AIR, OCCUPIED OR UNOCCUPIED).

COOLING COIL: THE COOLING COIL AND COMPRESSORS SHALL ENERGIZE TO MAINTAIN SPACE COOLING SETPOINT. (75°F OCCUPIED/ 80°F UNOCC.).

HEATING COIL: THE ELECTRIC HEAT COIL WILL ENERGIZE IN CONTROL STAGES TO MAINTAIN SPACE HEATING SETPOINT. (68°F OCC/60°F UNOCC.).

FAN: THE EXHAUST FAN WILL NOT BE OPERATIONAL UNTIL INTERIOR BUILD-OUT OCCURS, AS DESIGNED BY INTERIOR ENGINEER.

HIGH EFFICIENCY PACKAGED DX ROOF TOP UNIT SCHEDULE NO SUBSTITUTIONS ALLOWED FOR RTU'S

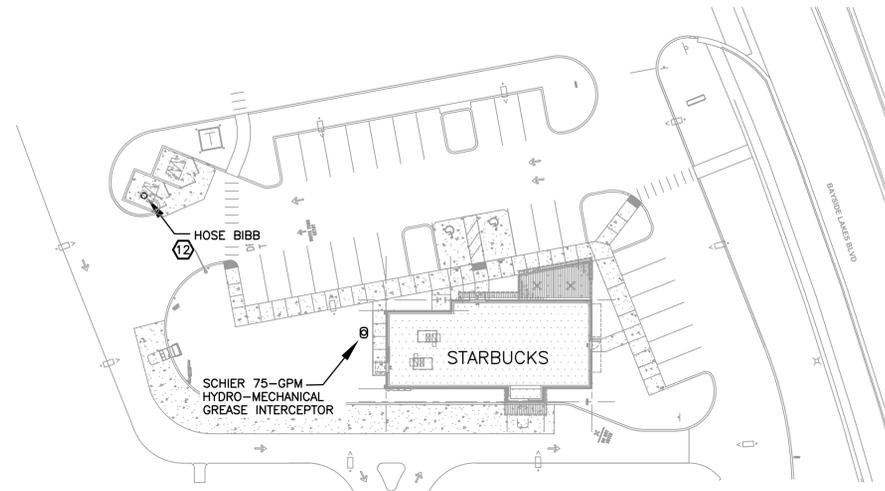
MARK	CFM	O/A CFM	ESP IN. WG.	POWER	NOMINAL TONS	ARI EFFIC. EER/IEER	HP	POWER												CONDENSER FAN QTY	CONDENSER FAN FLA	COMPRESSOR QTY	COMPRESSOR RLA	COMPRESSOR LRA	MCA AMPS	MOCP AMPS	AMBIENT TEMP.	FILTER TYPE	BASE WGT LBS	MFG.	MODEL	NOTES						
								BLOWER		COOLING		COOLING CAP		HEATING CAP		ENT AIR		TOTAL															SENS.		INPUT		OUTPUT	
								DB	WB	TOTAL	SENS.	INPUT	OUTPUT	MBH	MBH	MBH	MBH	MBH	MBH														MBH	MBH	MBH	MBH	MBH	MBH
RTU-1	5,000	500	0.8	208V/3ø	12.5	11.1/15.3	5.00	76.7	63.8	140.9	110.4	13.5	46.1	1	4.3	2	28.4/14.1	191/83.1	71	90	95°F	2"/30%	1,218	TRANE	THJ150*3	①②③④⑤⑥⑦⑧⑨⑩⑪												
RTU-2	3,400	340	0.8	208V/3ø	8.5	12.3/16.8	3.00	76.7	63.8	95.8	73.2	13.5	46.1	1	3.3	2	20.2/9.7	136/71	60	70	95°F	2"/30%	929	TRANE	THJ102*3	①②③④⑤⑥⑦⑧⑨⑩⑪												

NOTE: ① PROVIDE WITH 7-DAY A WEEK PROGRAMMABLE (TEMPORARY) THERMOSTAT, MEETING ALL CODE REQUIREMENTS (SEE SPECIFICATIONS). INCLUDE EXTRA 150-FT LENGTH OF WIRING FOR TEMPORARY MOUNTING, COIL BELOW RTU.
 ② PROVIDE MFG'S 14" TALL INSULATED ROOF CURB, EITHER SLOPED WITH ROOF, OR WITH SHIM KIT, AS NEEDED, FOR LEVEL UNIT INSTALLATION.
 ③ PROVIDE SINGLE POINT POWER TO UNIT INCLUDING HEAT STRIP (ALL SERVICE DISCONNECTS AND CONVENIENCE OUTLETS BY ELECTRICIAN - NOT FURNISHED WITH RTU)
 ④ INSTALL DUCT SMOKE DETECTOR IN SUPPLY DUCT DROP BELOW UNIT (FURNISHED & WIRED BY ELECTRICIAN)
 ⑤ PROVIDE SEACOAST CORROSION COATING ON CONDENSER COILS (5,000-HOUR).
 ⑥ PROVIDE WITH A SECONDARY (AUXILIARY) OVERFLOW DRAIN FLOAT SWITCH IN CONDENSATE PAN, INTERLOCKED WITH FAN MOTOR FOR SHUTDOWN.
 ⑦ PROVIDE HAIL GUARD AROUND CONDENSER COILS.
 ⑧ PROVIDE WITH LOW AMBIENT COOLING AND # COOLING CIRCUITS PER SCHEDULE.
 ⑨ FINAL UNIT COOLING CAPACITY, HEATING CAPACITY AND LOCATIONS MUST BE APPROVED BY TENANT AND LANDLORD, PRIOR TO BID.
 ⑩ PROVIDE WITH ECONOMIZER OUTSIDE AIR INTAKE SYSTEM WITH SCREENED HOOD AND POWERED EXHAUST FAN, WITH ENTHALPY CONTROLS, FAULT DETECTION, AND DIAGNOSTIC CAPABILITIES MATCHING REQUIREMENTS OF 2020 FBC-MECH. C403.2.4.7. IN ADDITION, PROVIDE CO2 SENSOR WITH CONTROLS/SENSOR, COMPATIBLE WITH ECONOMIZER SYSTEM.
 ⑪ PROVIDE WITH TWO SPEED EVAPORATOR FAN WITH VFD CONTROLLER, TO COMPLY WITH FL ENERGY CODE, 403.2.12.5.

PROVIDE STARTUP FORMS AND COMPLETED PRE-FUNCTION CHECKLIST PER STARBUCKS T.I. COMMISSIONING PLAN.

SUBSTITUTIONS: STARBUCKS REQUIRES THAT RTU'S ARE MANUFACTURED BY TRANE AND SHALL BE PURCHASED UNDER STARBUCKS NATIONAL ACCOUNTS. SUBSTITUTIONS WILL NOT BE ACCEPTED UNDER ANY CIRCUMSTANCES.

THE MECHANICAL ENGINEER OF RECORD FOR THE SHELL HAS SIZED RTU'S BASED ON THE LANDLORD'S LEASE CRITERIA ONLY. THE UNITS SPECIFIED SHALL BE THE BASIS OF THE CONTRACTOR'S BIDS. PRIOR TO CONSTRUCTION, STARBUCKS WILL PROVIDE A COMPLETE SET OF INTERIOR FINISH-OUT PLANS THAT WILL INCLUDE SIZING OF RTU'S BASED ON OCCUPANT AND EQUIPMENT LOADS WITHIN THE BUILDING. FOR THIS REASON, THE EQUIPMENT SIZES SHOWN ON THE SHELL DOCUMENTS ARE SUBJECT TO CHANGE. UNDER NO CIRCUMSTANCES SHALL THE MECHANICAL CONTRACTOR SUBMIT SHOP DRAWINGS OR ORDER RTU'S UNTIL THE INTERIOR FINISH-OUT DOCUMENTS HAVE BEEN RECEIVED. THE ARCHITECT SHALL IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR UPON RECEIPT AND, AT THAT TIME, WILL MAKE HIM AWARE OF ANY NECESSARY CHANGES.

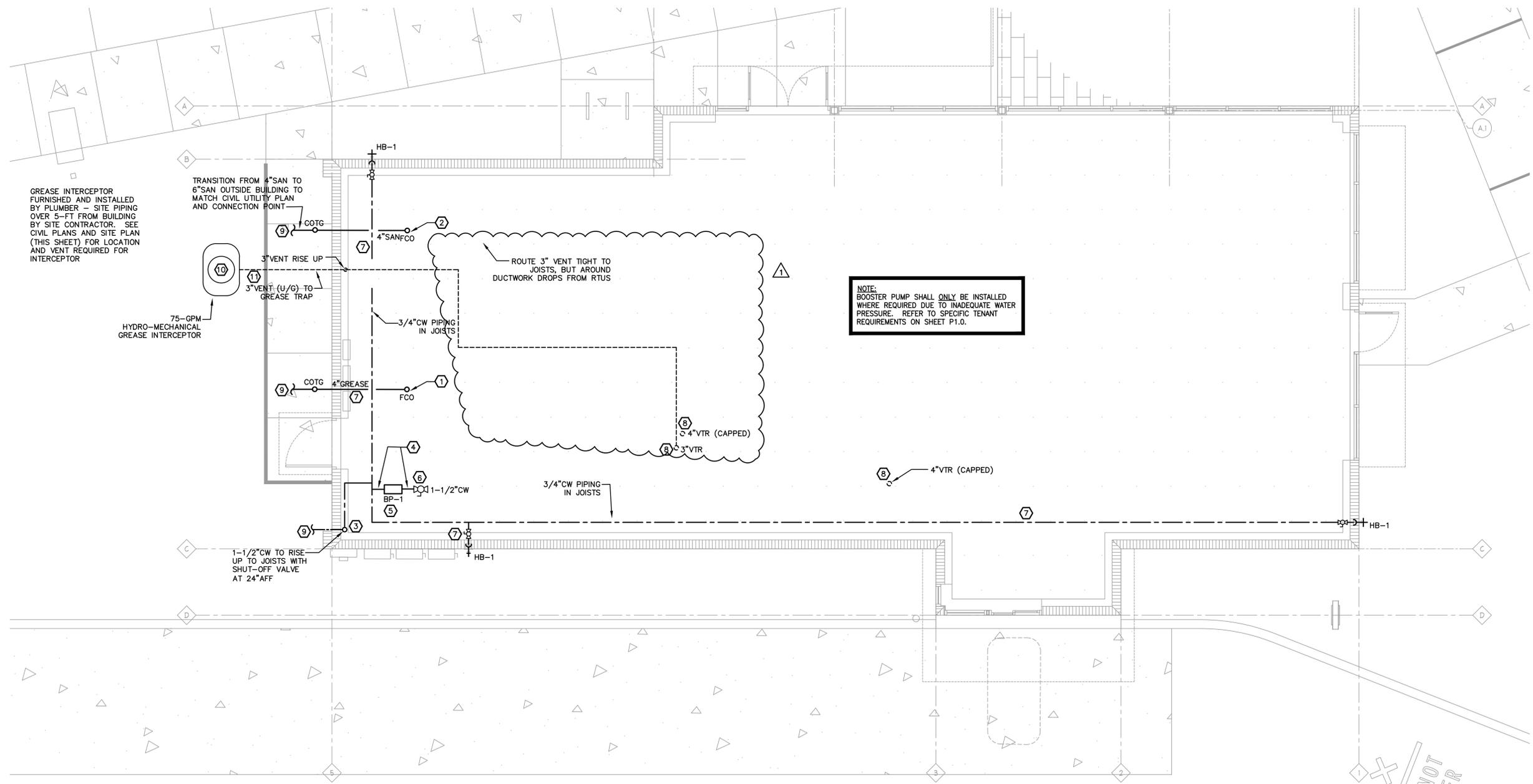


PLUMBING SITE PLAN
 SCALE: NONE

KEY NOTES ON PLANS:

- ① 4"GREASE WITH CLEANOUT 3-FT INSIDE EXTERIOR WALL LABELED "GREASE" (PROVIDE MAXIMUM DEPTH INVERT - MINIMUM 27" BFF).
- ② 4"SANITARY WITH CLEANOUT 5-FT INSIDE REAR WALL (MIN 27" BFF).
- ③ DOMESTIC COLD WATER (CW) FROM METER TO BUILDING. THEN ROUTE UP INSIDE BUILDING TIGHT TO WALL WITH BALL VALVE AT 24" AFF, AND HINGED ACCESS PANEL IN DRYWALL, THEN UP WITHIN ROOF FRAMING.
- ④ EXTEND 1-1/2"CW WITHIN ROOF FRAMING TO BOOSTER PUMP # BP-1.
- ⑤ HANG BOOSTER PUMP TIGHT BELOW ROOF FRAMING.
- ⑥ PROVIDE 1-1/2" CW VALVED END WITH CAP FROM BP-1 WITHIN ROOF FRAMING.
- ⑦ ROUTE 3/4"CW PIPING BEFORE BP-1, UP WITHIN ROOF FRAMING TO EACH HOSE BIBB.
- ⑧ VTR LOCATED 10-FT FROM ALL FRESH AIR INTAKES. EXTEND DOWN INTO BUILDING TO A MINIMUM OF 12" BELOW ROOF. CAP TEMPORARILY IF INDICATED ON PLANS. EXTEND VTR'S WITHIN SCREEN WALL TO ABOVE TOP OF WALL - WHERE APPLICABLE.
- ⑨ SEE CIVIL FOR CONTINUATION 5-FT FROM BUILDING.
- ⑩ 75-GPM GREASE INTERCEPTOR PER DETAILS ON PLANS, LOCATE PER CIVIL ENGINEERING UTILITY PLAN. PLUMBER TO PROVIDE & INSTALL.
- ⑪ ROUTE 3"VENT FROM GREASE INTERCEPTOR UNDERGROUND TO BUILDING AND UP TIGHT TO WALL, THEN ROUTE WITHIN JOISTS TO 3"VTR.
- ⑫ REFER TO CIVIL PLANS FOR 3/4"CW TO DUMPSTER. HOSE BIBB PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. LOCATE PER ARCHITECTURAL PLANS.

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.



NOTE:
 BOOSTER PUMP SHALL ONLY BE INSTALLED WHERE REQUIRED DUE TO INADEQUATE WATER PRESSURE. REFER TO SPECIFIC TENANT REQUIREMENTS ON SHEET P1.0.

PLUMBING FLOOR PLAN
 SCALE: 1/4" = 1'-0"

REVISED PER BUILDING PERMIT COMMENTS & TENANT COR.	DATE	NO.	REVISION DESCRIPTIONS
10/17/2023			

STARBUCKS SHELL CONSTRUCTION
 BAYSIDE LAKES BLVD
 PALM BAY, FL

12.02.2022
 date
 22032
 comm. no.

PLUMBING FLOOR PLAN

P2.0

NOT
 TYPED

PROJECT NOTES

- 1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND ALL LOCAL CODES AND ORDINANCES.
2. ALL MATERIALS SHALL BE NEW AND OF DOMESTIC ORIGIN AND SHALL BEAR UNDERWRITERS' LABEL WHERE APPLICABLE.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER...
4. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
5. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
7. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8. CONTRACTOR TO PAY FOR ALL PERMITS, UTILITY FEES, INSPECTIONS AND TESTINGS.
9. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES.
10. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING, UNLESS OTHERWISE NOTED, CONDUCTORS SHALL BE COPPER WITH THIN/THIN INSULATION. CONDUCTORS #12 AND SMALLER MAY BE SOLID; ALL THOSE #10 AND LARGER TO BE STRANDED.
11. ALL UNDERGROUND RACEWAYS SHALL BE GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. MINIMUM CONDUIT UNDERGROUND SHALL BE 3/4" CONDUIT UNLESS OTHERWISE NOTED.
12. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILING WHENEVER POSSIBLE.
13. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL OR HEAVY DUTY WHERE INDICATED. QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION-PROOF, ETC.).
14. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. CATALOG NUMBERS LISTED ARE LEVITON; HOWEVER, COMPARABLE DEVICES BY HUBBELL, PASS & SEYMOUR, OR ARROW HART WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE AS DICTATED BY ARCHITECT/OWNER.
A. SWITCHES: #1221-2 SERIES.
B. RECEPTACLES: #T5362 SERIES. (TAMPER RESISTANCE DEVICES)
C. COVER PLATES: SMOOTH PLASTIC
NOTE: ALL OTHER REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE.
15. ALL RACEWAYS AND PIPES, SPACED IN OR THROUGH ANY CONCRETE SLAB, SHALL BE SPACED A MINIMUM OF THREE TIMES THE DIAMETER OF THE LARGEST RACEWAY.
16. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
17. ALL ELECTRICAL RACEWAYS (METALLIC AND NONMETALLIC) SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE 2017 EDITION OF THE N.E.C.
18. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
19. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
20. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON AIR CONDITIONING SYSTEM AS SHOWN ON PLANS. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR REGARDING SUPPLY AND INSTALLATION OF ALL REQUIRED CONTROLS.
21. ALL SWITCHGEAR SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. SYSTEM DESIGN IS BASED ON THE S.E. COMPANY; NO SUBSTITUTION, TANDEN AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED. PROVIDE ARC FLASH WARNING SIGNAGE PER N.E.C. 110.16 FOR ALL SWITCHBOARDS AND PANELS.
22. WHERE REQUIRED BY CODE OR BY AUTHORITY HAVING JURISDICTION, ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS, WHERE RIGID STEEL IS USED, IT SHALL BE COMETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, AND THREADS SHALL BE COATED WITH ZINC CHROMATE.
23. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL UTILITY COMPANIES AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANIES' REPRESENTATIVES TO MEET THE OWNER'S SCHEDULE.
24. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILING, SLABS, ETC. PENETRATION SEALS SHALL BE PER UL ASSEMBLY STANDARDS.
26. CONDUIT SYSTEM REQUIREMENTS:
UNDERGROUND - PVC WITH RIGID 90 THROUGH SLAB. SEE NOTE NO. 22 ABOVE.
ABOVE FINISH FLOOR, CEILING, ETC. (INDOOR) - EMT WITH DIECAST SET SCREEN FITTINGS.
GALVANIZED RIGID CONDUITS - ABOVE GRADE AND WHERE SUSCEPTIBLE TO PHYSICAL DAMAGE.
FLEXIBLE CONDUITS - INDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-0".
SEAL-TITE - OUTDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-0".
27. CONDUCTOR COLOR CODING:
THE FOLLOWING APPLICABLE COLOR CODES SHALL BE IMPLEMENTED AND POSTED IN ALL PANELS, DISCONNECT SWITCHES, ETC., PER NEC ARTICLES 200.6(D) AND 215.12:
PHASE 'A' BLACK, 1-PH. BLACK, 3-PH. BROWN, 3-PH.
PHASE 'B' RED, RED, ORANGE
PHASE 'C' - BLUE, YELLOW
NEUTRAL WHITE, WHITE, GRAY
GROUND GREEN, GREEN, GREEN
ISOL. GROUND GREEN/YELLOW, GREEN/YELLOW, -
28. ALL RECEPTACLES WITH SIX FEET OF A WATER SOURCE SHALL BE A GFI RECEPTACLE OR PROTECTED BY A GFI BREAKER PER NFPA 70 (NEC) ARTICLE 210.8. THIS NOTE APPLIES TO ALL SHEETS.
29. PROVIDE ALL REQUIRED 0-10V WIRING TO 0-10V DIMMABLE FIXTURES AND CONTROLS AS REQUIRED. THIS 0-10V LOW VOLTAGE WIRING IS NOT SHOWN ON PLANS FOR DRAWING CLARITY. 0-10V WIRING SHALL BE TYPE COMPATIBLE WITH THE FIXTURE DIMMING DRIVER TYPE (CLASS 1 OR 2). CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR CABLE TYPE, SIZE, AND INSTALLATION REQUIREMENT AND COMPLY ACCORDINGLY. ALL WIRING SHALL BE IN COMPLIANCE WITH N.E.C. ARTICLE 725.
30. ALL OUTDOOR RECEPTACLES SHALL BE WEATHER RESISTANCE RATED, GFI-TYPE WITH "WET WHILE IN USE" COVERS, MARKED "EXTRA-DUTY" PER N.E.C. 406.9 (B) (1).
31. WHERE WIRE SIZES ARE SHOWN ON IN PANEL SCHEDULE, THE SAME WIRE SIZE, AS A MINIMUM, SHALL BE CARRIED THROUGHOUT THE CIRCUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.

MC CABLE NOTES

- MC CABLE: METAL-CLAD CABLE GENERAL NOTES
BRANCH CIRCUITS MAY BE METAL CLAD CABLE TYPE (MC), PROVIDED:
WHERE PANEL IS FLUSH MOUNTED, THE CABLE SHALL RUN IN WALL CAVITY.
WHERE PANEL IS SURFACE MOUNTED, CONTRACTOR SHALL PROVIDE METAL STUDS WITH DRYWALL TO CREATE A CAVITY TO RUN THE MC CABLE WITHIN.
MC CABLE MAY BE USED FOR 20 AMP CIRCUITS IN WALLS OR ABOVE ACCESSIBLE CEILING.
MC CABLE WIRE GAUGES SHALL BE AS SHOWN ON PANEL SCHEDULE.
MC CABLE SHALL ONLY BE USED WHERE ALLOWED BY N.E.C. SECTION 330.10, WHERE APPROVED BY THE BUILDING OFFICIAL, AND ACCEPTED BY THE OWNER.
MC CABLE SHALL BE INSTALLED PER N.E.C. 330.
ALL CABLE RUNS SHALL BE CONCEALED FROM VIEW AND ROUTED PARALLEL AND PERPENDICULAR TO BUILDING LINES.
MC CABLE MAY NOT BE USED IN OPEN STRUCTURE AREA, EXPOSED, OR OTHERWISE VISIBLE TO CUSTOMERS.
NO MC CABLE CAN BE USED IN DAMP OR WET LOCATIONS.

2020 FLORIDA BUILDING CODE, ENERGY CONSERVATION (7TH EDITION)

SECTION C405.5 ELECTRIC POWER

C405.5.3 VOLTAGE DROP
THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED ARE DESIGNED AND SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP TOTAL.

C405.5.4.1 DRAWINGS
CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:
1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

C405.5.4.2 MANUALS
CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

SECTION C408 SYSTEM COMMISSIONING

C408.3.1 FUNCTIONAL TESTING:
1. PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 THROUGH C408.3.1.3 FOR THE APPLICABLE CONTROL TYPE.
C408.3.2 DOCUMENTATION REQUIREMENTS:
1. THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

NOTES

- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS FOR COORDINATION OF ALL LIGHTING FIXTURE LOCATIONS.
2. GROUND CONDUCTOR SHALL BE INSTALLED IN ENTIRE RACEWAY SYSTEM INCLUDING WALL SWITCHES AND FLEXIBLE CONDUIT TO LIGHT FIXTURES.
3. LIGHTING SWITCHES SHALL BE GROUPED WITH ONE PLATE AND LOCATED APPROXIMATELY 2 INCHES FROM DOOR FRAME (STRIKE SIDE) UNLESS OTHERWISE NOTED.

LEGEND

LEGEND table containing symbols and descriptions for various electrical components such as linear light fixture, downlight, wall bracket, exit light, battery powered emergency light, track lighting, single pole switch, double pole switch, three-way switch, four-way switch, single pole switch with pilot light, key operated single pole switch, fan controller, dimmer switch, industrial specification grade duplex receptacle, industrial specification grade duplex receptacle, industrial specification grade quadruplex receptacle, industrial specification grade duplex receptacle, horizontal mounted, 1 PH, 250V, receptacle, special receptacle, industrial specification grade floor mounted duplex receptacle, industrial specification grade ground fault interrupter receptacle, industrial specification grade duplex receptacle, isolated ground type, industrial specification grade duplex receptacle, split wired, duplex receptacle, weather, tamper resistance and GFI rated, 20 AMP duplex receptacle with (2) USB charging ports, tamper & weather resistance, telephone outlet, provide 4" sq. box with 1-gang mid ring, and 1" conduit with full wire and insulating bushing stubbed into ceiling space, main switchboard, main distribution panel.

ABBREVIATIONS table with columns for equipment ground, isolated ground, weatherproof, empty conduit, electric water heater, electric water cooler, exhaust fan, air handling unit, condensing unit, roof top unit, night light, pull chain, current transformer, existing device, existing to be relocated, above finish grade, unless otherwise noted, not to scale, not in contract, above finish floor.

NOTES

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PRIOR TO SUBMITTING A BID.
2. REPORT ANY DISCREPANCIES TO ARCHITECT OR ENGINEER PRIOR TO BID.
3. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, AND TELEPHONE LOCATION, ETC.
5. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.
7. COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED ON ELECTRICAL DRAWINGS.
THESE NOTES APPLY TO ALL ELECTRICAL SHEETS.

INDEX

- E0.0 : ELECTRICAL PROJECT NOTES AND LEGEND
E1.0 : ELECTRICAL SITE PLAN
E1.1 : PHOTOMETRIC SITE PLAN
E1.2 : FIXTURE INFORMATION
E2.0 : LIGHTING AND POWER PLANS
E3.0 : POWER RISER DIAGRAM
E4.0 : ELECTRICAL SPECIFICATIONS

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TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEHAYEB, P.E.
FL License No. 49521

Table with columns for revision descriptions, date, and no.

STARBUCKS SHELL CONSTRUCTION
BAYSIDE LAKES BLVD
PALM BAY, FL

12.02.2022
date
22032
comm. no.

ELECTRICAL PROJECT NOTES AND LEGEND

E0.0

GENERAL SITE

NOTES

- CONDUIT RUN BELOW GRADE SHALL BE PVC SCHEDULE 40. 90° ELBOWS, 2" AND LARGER SHALL BE GALVANIZED RIGID CONDUIT(S). RISERS SHALL BE RIGID STEEL CONDUIT(S) WHERE EXPOSED TO OUTSIDE ELEMENTS, AND SUBJECT TO PHYSICAL DAMAGE, REFER TO SPECIFICATIONS.
- ALL UNDERGROUND SITE CONDUIT SHALL BE BURIED A MINIMUM OF 36 INCHES DEEP BELOW FINISHED GRADE TO TOP OF CONDUIT UNLESS OTHERWISE NOTED.
- PROVIDE COLOR TAPE FOR IDENTIFICATION AT 18 INCHES DEEP (ABOVE SERVICE CONDUIT RUNS) PER N.E.C. 300-5 (D) (3).
- ALL TURNS SHALL BE MADE WITH LONG SWEEP ELLS.
- CONTRACTOR SHALL PROVIDE ALL EXCAVATING AND BACK FILLING REQUIRED FOR ALL NEW WORK INCLUDING FILL, COMPACTION, SURFACE, ETC. TO MEET ALL REQUIREMENTS AS APPLICABLE FOR THE AREA.
- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL DETERMINE THE PRESENCE AND LOCATION OF ANY UNDERGROUND FACILITIES SUCH AS TELEPHONE, ELECTRIC POWER, WATER, GAS, SEWAGE LINES, ETC. WHETHER PREVIOUSLY EXISTING OR AS INSTALLED BY OTHER TRADES, TO AVOID INTERFERENCE WITH ANY SUCH SYSTEM.
- ALL SPARE, EMPTY CONDUITS SHALL BE LABELED AS TO THEIR FUNCTION.
- CONTRACTOR SHALL MAINTAIN AN AS-BUILT DIMENSIONAL DRAWING ON SITE SHOWING ALL UNDERGROUND SERVICE ROUTING AND TERMINATION POINTS.
- CONTRACTOR SHALL MEET ON SITE WITH REPRESENTATIVES OF THE UTILITY COMPANIES INCLUDING POWER, TELEPHONE, AND CABLE TO DETERMINE THE FOLLOWING: (PRIOR TO BID AND PRIOR TO ROUGH IN).

POWER COMPANY:

- A - VERIFY EXACT TRANSFORMER(S) LOCATION PRIOR TO BID.
- B - VERIFY PRIMARY CONDUIT WORK REQUIRED AND RESPONSIBILITY PRIOR TO BID.
- C - VERIFY METERING METHOD AND REQUIREMENTS, IF DIFFERENT FROM WHAT IS SHOWN ON THE DRAWINGS, NOTIFY ENGINEER IMMEDIATELY.

TELEPHONE COMPANY:

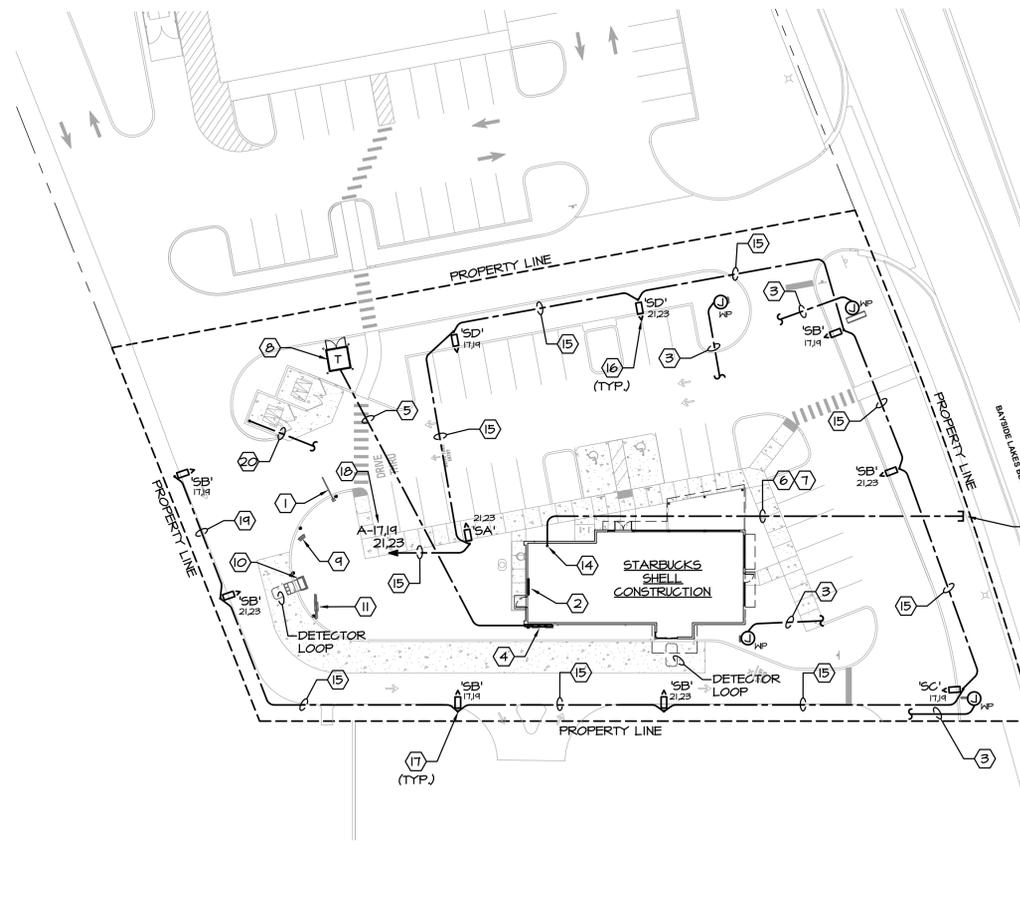
- A - ORIGIN AND TERMINATION OF THE SERVICE CONDUITS.
- B - INSTALLATION SPECIFICATIONS, SIZE AND QUANTITY REQUIRED. HOWEVER, MAINTAIN QUANTITY AND SIZES SHOWN ON PLANS, IF IN EXCESS OF UTILITY REQUIREMENTS.

NOTE:

CONTRACTOR'S FAILURE TO COMPLY WITH THESE COORDINATION PROCEDURES WILL CONSTITUTE THE CONTRACTOR ASSUMING ALL COSTS ASSOCIATED WITH REPLACING ANY AND ALL WORK ALREADY IN PLACE TO MEET UTILITY COMPANIES' RULES AND REQUIREMENTS.

KEY NOTES

- CLEARANCE BAR, NON-LIT.
- PROPOSED STARBUCKS PANEL LOCATIONS.
- PROVIDE ONE 1" CONDUIT WITH FULL WIRE FROM WEATHERPROOF JUNCTION BOX AT PROPOSED SIGN LOCATION AND RUN UNDERGROUND BACK TO TIME CLOCK/CONTACTOR PANEL. SEE DTE DETAIL THIS SHEET.
- ELECTRICAL SERVICE LOCATION. SEE POWER RISER DIAGRAM ON SHEET E3.0.
- SECONDARY POWER CONDUITS, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE POWER RISER DIAGRAM ON SHEET E3.0.
- TWO 2" SCH 40, PVC CONDUITS WITH FULL WIRE BY ELECTRICAL CONTRACTOR FOR TELEPHONE SERVICE. CONDUIT TO BE STUBBED UP IN SPACE AT A LOCATION IDENTIFIED BY TENANT.
- ONE 2" SCH 40, PVC CONDUIT WITH FULL WIRE BY ELECTRICAL CONTRACTOR FOR CABLE T.V. SERVICE. CONDUIT TO BE STUBBED UP IN SPACE AT A LOCATION IDENTIFIED BY TENANT.
- NEW 120/208V, 3-PHASE, PAD MOUNTED TRANSFORMER. REFER TO POWER RISER DIAGRAM ON SHEET E3.0 FOR ADDITIONAL DETAILS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY. SEE CONTACT INFORMATION THIS SHEET.
- PRE MENU BOARD. SEE DTE DETAIL THIS SHEET.
- SPEAKER POST ORDER CONFIRMATION SYSTEM WITH DETECTABLE LOOP. SEE DTE DETAIL THIS SHEET.
- MENU BOARD SEE DTE DETAIL THIS SHEET.
- TERMINATE TELEPHONE CONDUITS AT PROPERTY LINE. COORDINATE WITH PHONE COMPANY REPRESENTATIVE.
- TERMINATE CABLE CONDUITS AT PROPERTY LINE. COORDINATE WITH UTILITY COMPANY REPRESENTATIVE.
- TELE/DATA STUB-UP PROPOSED LOCATION. SEE SHEET E2.0 FOR LOCATION.
- 4 - #8, 1 - #8 E.G. IN 1" CONDUIT.
- OPTICS ORIENTATION FOR THE SITE LIGHT FIXTURE.
- SITE POLE AND FIXTURE, SEE LIGHTING FIXTURE SCHEDULE ON THIS SHEET AND SHEET E1.1 FOR POLE DETAIL.
- ONE CIRCUIT CONTROLLED VIA PHOTOCELL ON TIMECLOCK OFF AND ONE CIRCUIT CONTROLLED VIA PHOTOCELL 'ON', PHOTOCELL 'OFF'.
- 2 - #8, 1 - #8 E.G. IN 1" CONDUIT.
- (1) 1" CONDUIT WITH FULL WIRE FROM THE DUMPSTER TO 12" A.F.F. AT PANEL 'A' LOCATION. CAP AND LABEL ON BOTH ENDS.



ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

SITE LIGHTING CONTROLS

SITE LIGHTING IS PROVIDED WITH 50/50 CONTROLS WHERE 50% OF THE LIGHTS REMAIN ON ALL NIGHT PHOTOCELL ON/OFF, AND THE OTHER 50% WILL BE CONTROLLED VIA PHOTOCELL ON AND TIME CLOCK OFF ONE HOUR AFTER CLOSING.

REVISION #1 CONSISTS OF REPLACING THE BACKGROUND AND REVISING ALL AFFECTED DEVICES AND CONTROLS. NOT CLOUDED DUE TO CLARITY.



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TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEHAYEB, P.E.
FL License No. 49521

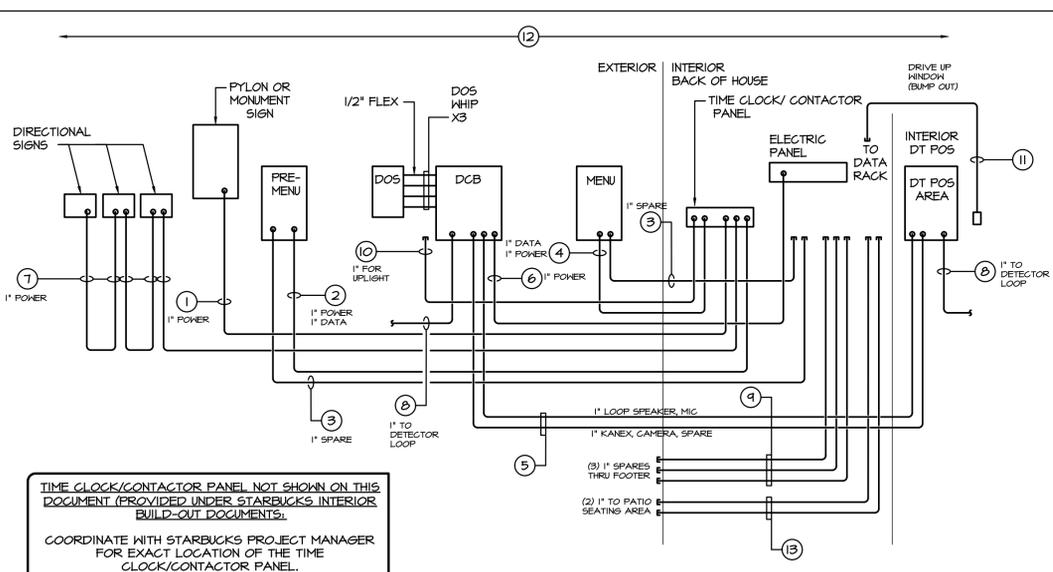
NO.	DATE	REVISION DESCRIPTIONS

STARBUCKS SHELL CONSTRUCTION
BAYSIDE LAKES BLVD
PALM BAY, FL

12.02.2022
date
22032
comm. no.
ELECTRICAL SITE PLAN

E1.0

CHEHAYEB & ASSOCIATES, INC.
CONSULTING PROFESSIONAL ENGINEERS
3702 AZEEL ST. TAMPA, FL 33609 (813) 876-1415 www.chehayeb.com
LIC. #49521 SOUHEIL S. CHEHAYEB CERT. #7340 22-144



KEY NOTES

- PROVIDE (1) 1" PVC CONDUIT FOR POWER CONNECTION TO STARBUCKS MONUMENT SIGNAGE. PROVIDE A WEATHERPROOF JUNCTION BOX.
- PROVIDE (1) 1" PVC CONDUIT FOR POWER CONNECTION TO PRE-MENU SIGN AND (1) 1" PVC CONDUIT WITH FULL STRING CONTINUOUS TO TELEPHONE BOARD FOR DATA CONNECTION. PROVIDE A WEATHERPROOF JUNCTION BOX.
- PROVIDE (1) 1" PVC CONDUIT FOR FUTURE USE TO MENU SIGN AND TO PRE-MENU SIGN.
- PROVIDE (1) 1" PVC CONDUIT FOR POWER CONNECTION TO MENU SIGN AND (1) 1" PVC CONDUIT WITH FULL STRING CONTINUOUS TO TELEPHONE BOARD FOR DATA CONNECTION. PROVIDE A WEATHERPROOF JUNCTION BOX.
- PROVIDE (2) 1" PVC CONDUITS FROM OCS/SPEAKER POST (AKA DOS/DCB) TO DRIVE-THRU WINDOW.
- PROVIDE (1) 1" PVC CONDUIT FROM OCS/SPEAKER POST (AKA DOS/DCB) TO ELECTRICAL PANEL. PROVIDE A WEATHERPROOF JUNCTION BOX.
- PROVIDE (1) 1" PVC CONDUIT FOR POWER CONNECTION TO STARBUCKS DIRECTIONAL SIGNAGE. NOTE THAT UP TO THREE DIRECTIONAL SIGNS CAN BE SERVED BY A SINGLE CIRCUIT. ADDITIONAL SIGNS REQUIRE A NEW DEDICATED CIRCUIT AND CONDUIT. PROVIDE A WEATHERPROOF JUNCTION BOX.
- PROVIDE (1) 1" PVC CONDUIT FOR EACH OF TWO TENANT-FURNISHED DETECTOR LOOP SETS IN COORDINATION WITH TENANT CONSTRUCTION MANAGER.
- PROVIDE (3) SPARE 1" PVC CONDUIT THRU FOUNDATION WALL OUT REAR OF BUILDING, CAPPED AND TERMINATED ABOVE CEILING. VERIFY LOCATION OF STUB-UP WITH TENANT'S REPRESENTATIVE.
- PROVIDE (1) 1" PVC CONDUIT TO CANOPY UPLIGHT FROM ELECTRICAL PANEL.
- PROVIDE (1) 1-1/2" CONDUIT FROM DATA RACK @ MANAGER WORKSTATION TO DRIVE-THRU BUMP.
- EMPTY CONDUITS WITH FULL WIRE IS PROVIDED UNDER THESE DOCUMENTS. ALL WIRING AND CONTROLS ARE PROVIDED AS PART OF INTERIOR DESIGN DOCUMENTS.
- PROVIDE (2) 1" PVC CONDUIT TO PATIO AREA FROM ELECTRICAL PANEL.

UTILITY COORDINATION:

TO THE BEST OF OUR ABILITY THE SERVICE HAS BEEN COORDINATED WITH THE UTILITY COMPANY REPRESENTATIVE(S) FOR:

- 1 - TRANSFORMER(S) LOCATION.
- 2 - CUSTOMER RESPONSIBILITY.
- 3 - REQUESTED VOLTAGE & AVAILABILITY.

IT IS THE CONTRACTOR RESPONSIBILITY TO REVISIT THESE ITEMS WITH UTILITY PROJECT ENGINEER TO VERIFY THAT THE CURRENT DESIGN SHOWN ON THE CONSTRUCTION DOCUMENT(S) ARE STILL IN COMPLIANCE WITH THE UTILITY PLANS TO SERVICE THIS SITE.

ANY COST ASSOCIATED WITH UTILITY FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS WITH THE DEVELOPER.

THIS COORDINATION SHALL BE A PART OF SITE MEETING TO BE SCHEDULED BY THE CONTRACTOR WITH THE UTILITY PERSONNEL PRIOR TO THE START OF THE PROJECT.

COORDINATION SHALL ALSO BE MADE WITH TELEPHONE AND CABLE SERVICE REPRESENTATIVE(S) FOR VERIFICATION OF THEIR REQUIREMENTS INCLUDING POINT OF CONNECTION AND TERMINATION POINTS.

UTILITY CONTACTS

POWER COMPANY: FPL PROJECT #1975134
CONTACT: MONIQUE PEACOCK
TELEPHONE No.: (321) 726-4819
EMAIL: monique.peacock@fpl.com

PHONE COMPANY: LUMEN
CONTACT: KURT JUDD
TELEPHONE No.: (852) 401-6555
EMAIL: kurt.e.judd@lumen.com

CONTRACTOR SHALL NOTIFY EACH UTILITY COMPANY REPRESENTATIVE LISTED ABOVE OF THE PRE-CONSTRUCTION MEETING SCHEDULE.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUF.	CATALOG NO.	VOLT	LAMPS	LOAD (W)	MOUNTING
SA	LITHONIA LIGHTING	DSXI-LED-P5-40K-TOCRI-TSM-MVOLT	208	LED	134	SEE SHEET E1.1 FOR POLE DETAIL
SB	LITHONIA LIGHTING	DSXI-LED-P3-40K-TOCRI-BLC3-MVOLT	208	LED	103	
SC	LITHONIA LIGHTING	DSXI-LED-P5-40K-TOCRI-LCCO-MVOLT	208	LED	134	
SD	LITHONIA LIGHTING	DSXI-LED-P5-40K-TOCRI-BLC3-MVOLT	208	LED	134	

GENERAL NOTES:

- PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR ALL FIXTURES.
- ALL FIXTURE SHOWN ARE DESIGNED TO MATCH OTHER EXISTING SITE LIGHTING FIXTURES ON THIS SITE.
- FIXTURE AND POLE FINISH COLOR AS SELECTED BY ARCHITECT.

TIME CLOCK/CONTACTOR PANEL NOT SHOWN ON THIS DOCUMENT (PROVIDED UNDER STARBUCKS INTERIOR BUILD-OUT DOCUMENTS).
COORDINATE WITH STARBUCKS PROJECT MANAGER FOR EXACT LOCATION OF THE TIME CLOCK/CONTACTOR PANEL.

PROJECT SCOPE:
THE WORK SHOWN ON THESE DOCUMENTS REPRESENT THE LANDLORD SCOPE OF WORK (MODIFIED SHELL DOCUMENT). ALL INTERIOR WORK INCLUDING INTERIOR LIGHTING, ADDITIONAL PANELS, WIRING, ETC... IS PART OF TENANT IMPROVEMENT DOCUMENT, THAT IS DESIGNED AND PERMITTED SEPARATELY.

DTE CONDUIT SCHEMATIC

NOT TO SCALE
GENERAL NOTE:
PROVIDE FULL WIRE IN ALL EMPTY CONDUITS AND LABEL CONDUITS ACCORDINGLY TO THEIR FUNCTION.



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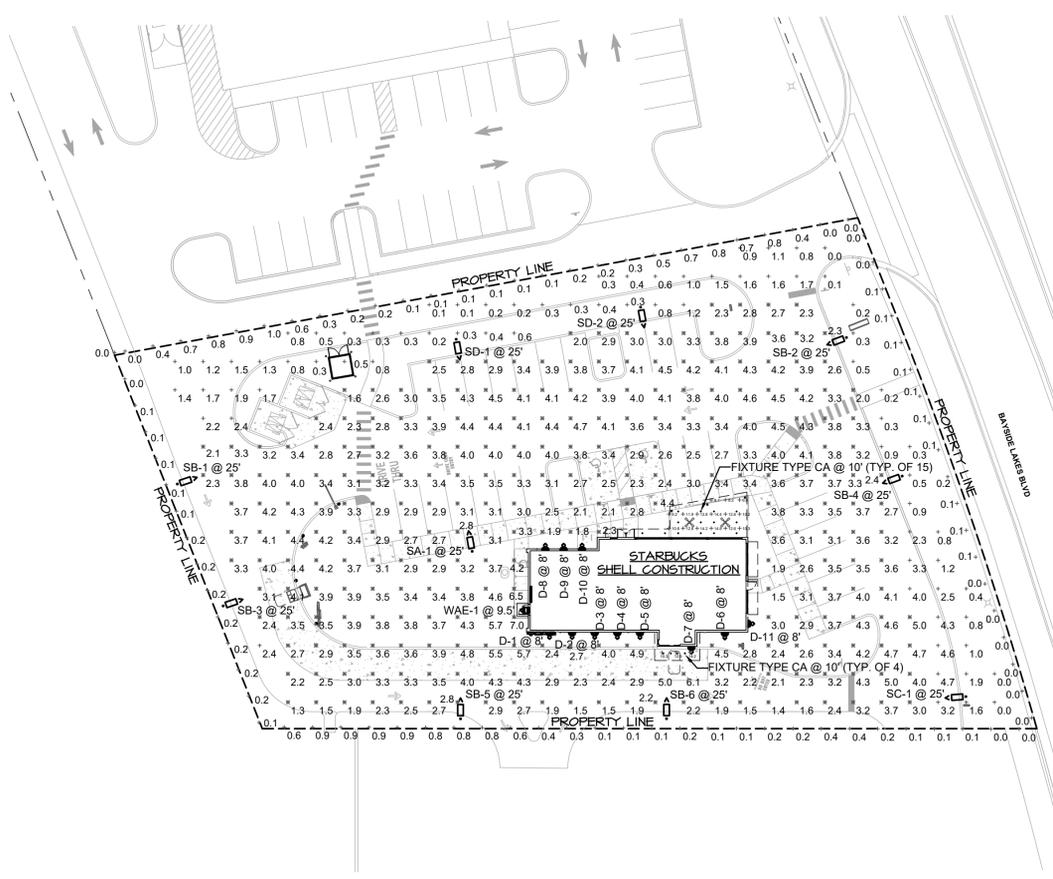
REVISED PER BUILDING PERMIT COMMENTS & TENANT CORRD.	revision descriptions
10/17/2023	date
	no.

STARBUCKS SHELL CONSTRUCTION
 BAYSIDE LAKES BLVD
 PALM BAY, FL

12.02.2022
 date
 22032
 comm. no.

PHOTOMETRIC SITE PLAN

E1.1



REVISION #1 CONSISTS OF REPLACING THE BACKGROUND AND REVISING PHOTOMETRICS, NOT CLOUDED DUE TO CLARITY.

PHOTOMETRIC SITE PLAN
 SCALE: 1" = 30'-0"

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
SA	SA	1	Lithonia Lighting	DSX1 LED P5 40K 70CRI TSM MVOLT	D-Series Size 1 Area Luminaire P5 Performance Package 4000K CCT 70 CRI Type 5 Medium	1	18410	0.95	138.16
SB	SB	6	Lithonia Lighting	DSX1 LED P3 40K 70CRI BL3C MVOLT	D-Series Size 1 Area Luminaire P3 Performance Package 4000K CCT 70 CRI Type 3 Extreme Backlight Control	1	10011	0.95	102.17
SC	SC	1	Lithonia Lighting	DSX1 LED P5 40K 70CRI LCCO MVOLT	D-Series Size 1 Area Luminaire P5 Performance Package 4000K CCT 70 CRI Left Corner Cutoff Extreme Backlight Control	1	12940	0.95	138.16
SD	SD	2	Lithonia Lighting	DSX1 LED P5 40K 70CRI BL3C MVOLT	D-Series Size 1 Area Luminaire P5 Performance Package 4000K CCT 70 CRI Type 3 Extreme Backlight Control	1	12824	0.95	138.16
D	D	11	Kuzoo Lighting	EW53908	Wall Mounted	1	203	0.95	9.4
CA	CA	19	Lithonia Lighting	WF4 LED 30K40K50K MVOLT 90CRI 3000K	4" LED Wafer Selectable White MVOLT 30K40K50K_3000K	1	762	0.95	10.55
WAE	WAE	1	Lithonia Lighting	DSXW1 LED 10C 1000 30K TSM MVOLT - ELWC	DSXW1 LED WITH (1) 10 LED LIGHT ENGINES, TYPE TSM OPTIC, 3000K, @ 1000mA	1	3873	0.95	38.8

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
1. Overall Parcel	+	2.9 fc	7.0 fc	0.0 fc	N/A	N/A
2. Paved and Parking Areas	X	3.4 fc	7.0 fc	1.3 fc	5.4:1	2.6:1
3. Property Lines	+	0.3 fc	1.0 fc	0.0 fc	N/A	N/A
4. Front Canopy	+	11.4 fc	14.8 fc	6.8 fc	2.2:1	1.7:1
5. Drive Thru Canopy	+	11.5 fc	12.9 fc	10.3 fc	1.3:1	1.1:1

FIXTURE NOTE:
 FIXTURE SHOWN ON THIS SHEET IS FOR REFERENCE ONLY. SEE ACTUAL FIXTURE SCHEDULE ELSEWHERE IN THIS DOCUMENTS FOR ACTUAL CATALOG NUMBER AND DESCRIPTION.

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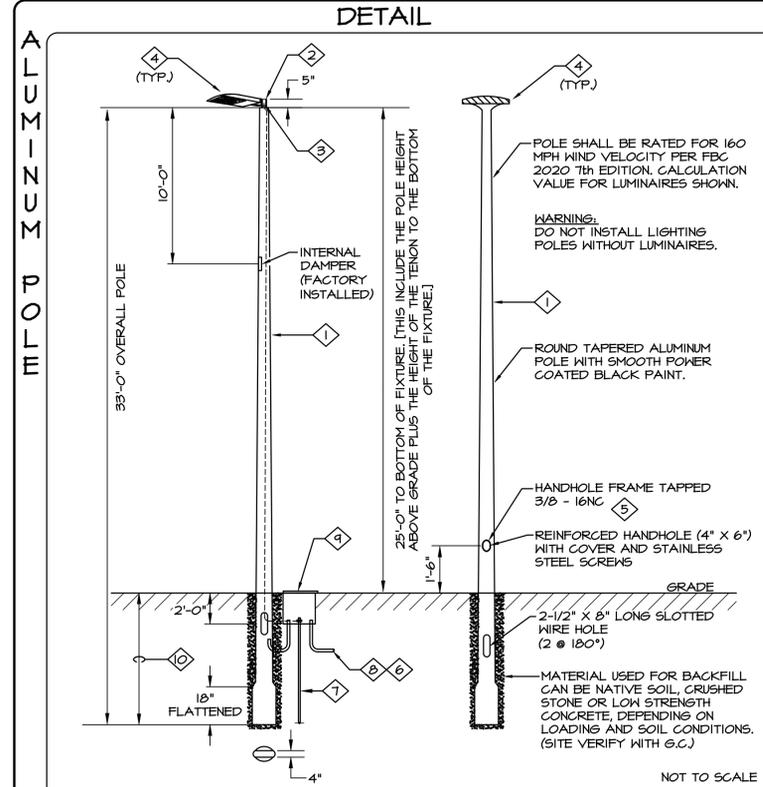
ALUMINUM CONDUCTOR NOTES

- ALUMINUM CONDUCTORS SHALL BE AA-8000 SERIES ALUMINUM ALLOY, COMPACT STRANDED, TYPE XHHH INSULATION.
- ALUMINUM CONDUCTORS SHALL BE USED ONLY WHERE SPECIFIED ON THESE DRAWINGS. WHERE CONDUCTORS ARE NOT SPECIFIED THEY SHALL BE COPPER.
- ALL ALUMINUM WIRING INSTALLATION SHALL MEET, AS A MINIMUM, THE NATIONAL ELECTRICAL INSTALLATION STANDARD (NEIS) AND NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) AA/IO4-2000 "RECOMMENDED PRACTICE FOR INSTALLATION OF ALUMINUM BUILDING WIRE AND CABLE".
- INSTALLATION REQUIREMENTS:
 - OXIDE INHIBITOR SHALL BE USED AT ALL ALUMINUM CONDUCTOR TERMINATIONS.
 - THE INSULATION ON AN ALUMINUM CONDUCTOR SHALL BE STRIPPED USING TOOLS MANUFACTURED FOR THE CONDUCTOR TYPE AND INSULATION TYPE, OR BY A STANDARD METHOD, SUCH AS, PENCILING OR WHITTLING THE INSULATION FROM THE CONDUCTORS. HOWEVER; NEVER "RING CUT" THE INSULATION. WHEN PENCILING, CARE SHOULD BE TAKEN NOT TO DAMAGE ANY OF THE INDIVIDUAL STRANDS.
 - WIRE BRUSH THE CONDUCTOR TO REMOVE ANY INSULATION THAT MAY BECOME TRAPPED BETWEEN THE STRANDS AND APPLY A LISTED JOINT COMPOUND.
 - VERIFY THAT THE CONNECTORS ARE DUAL RATED AND LISTED BY UL FOR USE WITH ALUMINUM AND COPPER, AND SIZED TO ACCEPT ALUMINUM CONDUCTORS OF THE AMPACITY SPECIFIED. THESE TERMINATIONS SHALL BE LISTED AND LABELED, ALCU, ALTCU, OR ALQCU.
 - ALL TERMINATIONS OF ALUMINUM CONDUCTORS SHALL BE VIA COMPRESSION FITTINGS/TERMINALS FOR 8000 ALUMINUM ALLOY CONDUCTORS. THE BARE CONDUCTOR SHALL BE INSERTED IN THE CONNECTOR BARREL AND CRIMPED WITH A TOOL RECOMMENDED BY THE CONNECTOR MANUFACTURER. COMPRESSION CONNECTORS ARE GENERALLY MARKED WITH THE DIE SIZE TO BE USED. AFTER THIS PROCESS IS COMPLETED, REMOVE ANY ACCESS OXIDE INHIBITOR FROM THE CONDUCTOR.
- ALUMINUM CONDUCTOR SCHEDULE NOTES:
 - ALL CONDUCTORS SHALL BE COPPER UNLESS SPECIFICALLY NOTED AS ALUMINUM (AL) ON THE PANEL SCHEDULES OR IN THE RISER NOTES. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH N.E.C., GENERAL NOTES LISTED ON THIS SHEET, AND GOOD WORKMAN SHIP.
 - CONTRACTOR SHALL COORDINATE WITH SWITCH GEAR MANUFACTURER FOR LUG SIZE, OR QUANTITY MODIFICATIONS. IF LUG REDUCERS ARE ELECTED TO BE USED, ALL PRODUCTS AND TERMINATION MEANS SHALL BE IN STRICT COMPLIANCE WITH N.E.C. AND MANUFACTURER RECOMMENDATIONS.

ALL SITE AND BUILDING LIGHTS PROPOSED ON THIS PROJECT ARE DESIGNED AS FULL CUTOFF CLASSIFICATION WITH ZERO UP LIGHT COMPONENTS.

THESE PHOTOMETRICS ARE INTENDED FOR DESIGN AND EVALUATION PURPOSES ONLY. THE POINT-BY-POINT SHOWN IS BASED ON A COMPUTER LIGHTING PROGRAM WITH APPROXIMATED PARAMETERS. THEREFORE, THESE PHOTOMETRICS MAY VARY FROM ACTUAL FIELD CONDITIONS.

No.	Location				Aim					
	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z
1	CA	378.05	50.47	10.00	10.00	0.00	0.00	378.05	50.47	0.00
2	CA	383.88	50.45	10.00	10.00	0.00	0.00	383.88	50.45	0.00
3	CA	391.88	50.43	10.00	10.00	0.00	0.00	391.88	50.43	0.00
4	CA	396.54	50.48	10.00	10.00	0.00	0.00	396.54	50.48	0.00
5	CA	396.55	54.31	10.00	10.00	0.00	0.00	396.55	54.31	0.00
6	CA	396.56	58.14	10.00	10.00	0.00	0.00	396.56	58.14	0.00
7	CA	404.56	58.12	10.00	10.00	0.00	0.00	404.56	58.12	0.00
8	CA	409.23	58.14	10.00	10.00	0.00	0.00	409.23	58.14	0.00
9	CA	404.55	54.29	10.00	10.00	0.00	0.00	404.55	54.29	0.00
10	CA	409.22	54.31	10.00	10.00	0.00	0.00	409.22	54.31	0.00
11	CA	417.23	58.12	10.00	10.00	0.00	0.00	417.23	58.12	0.00
12	CA	417.22	54.29	10.00	10.00	0.00	0.00	417.22	54.29	0.00
13	CA	417.21	50.45	10.00	10.00	0.00	0.00	417.21	50.45	0.00
14	CA	409.21	50.48	10.00	10.00	0.00	0.00	409.21	50.48	0.00
15	CA	404.54	50.45	10.00	10.00	0.00	0.00	404.54	50.45	0.00
16	CA	391.29	8.12	10.00	10.00	0.00	0.00	391.29	8.12	0.00
17	CA	393.95	8.12	10.00	10.00	0.00	0.00	393.95	8.12	0.00
18	CA	396.29	8.12	10.00	10.00	0.00	0.00	396.29	8.12	0.00
19	CA	398.95	8.12	10.00	10.00	0.00	0.00	398.95	8.12	0.00
1	D	350.51	15.97	8.00	8.00	180.00	0.00	350.51	15.97	0.00
2	D	358.51	15.97	8.00	8.00	180.00	0.00	358.51	15.97	0.00
3	D	366.51	15.86	8.00	8.00	180.00	0.00	366.51	15.86	0.00
4	D	374.51	15.86	8.00	8.00	180.00	0.00	374.51	15.86	0.00
5	D	382.51	15.86	8.00	8.00	180.00	0.00	382.51	15.86	0.00
6	D	412.56	15.73	8.00	8.00	180.00	0.00	412.56	15.73	0.00
7	D	400.74	10.76	8.00	8.00	180.00	0.00	400.74	10.76	0.00
8	D	349.04	45.19	8.00	8.00	0.00	0.00	349.04	45.19	0.00
9	D	355.54	45.19	8.00	8.00	0.00	0.00	355.54	45.19	0.00
10	D	352.04	45.19	8.00	8.00	0.00	0.00	352.04	45.19	0.00
11	D	420.85	19.15	8.00	8.00	90.00	0.00	420.85	19.15	0.00
1	SA	323.66	44.07	25.00	25.00	349.61	0.00	323.17	46.78	0.00
1	SB	219.38	67.77	25.00	25.00	71.44	0.00	221.99	68.64	0.00
3	SB	235.58	24.83	25.00	25.00	71.44	0.00	238.19	25.71	0.00
5	SB	319.56	-14.95	25.00	25.00	0.00	0.00	319.56	-12.20	0.00
6	SB	392.46	-14.92	25.00	25.00	0.00	0.00	392.46	-12.17	0.00
1	SC	498.34	-7.07	25.00	25.00	265.95	0.00	495.60	-7.26	0.00
1	SD	318.02	118.77	25.00	25.00	169.86	0.00	318.50	116.06	0.00
2	SD	383.29	130.03	25.00	25.00	169.84	0.00	383.78	127.32	0.00
1	WAE	343.17	23.90	9.50	9.50	270.00	0.00	342.67	23.90	0.00
2	SB	456.11	119.41	25.00	25.00	249.78	0.00	453.53	118.46	0.00
4	SB	475.78	70.59	25.00	25.00	249.78	0.00	473.21	69.64	0.00



- NOTES:**
- DIRECT BURIAL POLE SHALL BE RATED FOR WIND VELOCITY PER FBC 2020 7TH EDITION. CALCULATION SHALL BE BASED ON THE EPA VALUE FOR THE LUMINAIRE SHOWN PER POLE.
 - ELECTRICAL CONTRACTOR TO COORDINATE THE TYPE OF TENON OR MOUNTING REQUIRED WITH THE FIXTURE MANUFACTURER, TO MOUNT THE SITE LIGHT FIXTURE TO THE POLE AS INTENDED AND INDICATED.
 - NO. 6 GROUND CONDUCTOR, FURNISHED WITH THE POLE, BONDED AT THE J BOX AT THE BOTTOM OF THE POLE, SEE NOTE #1, AND TO THE EQUIPMENT GROUND CONDUCTOR RAN WITH THE CIRCUIT FROM THE DESIGNATED PANEL IN THE BUILDING.
 - LUMINAIRE: SEE FIXTURE SCHEDULE ON THE SITE LIGHTING PLAN FOR QUANTITY, TYPE, AND OPTIC ORIENTATION. PROVIDE PROPER BRACKETS TO MOUNT THE FIXTURE AS SHOWN ON THE PHOTOMETRIC PLAN. COORDINATE WITH THE FACTORY AND PROVIDE BRACKET CUT SHEET TO THE ENGINEER FOR APPROVAL PRIOR TO RELEASE.
 - FURNISH AND INSTALL IN-LINE BALLAST FUSES IN BUSSMANN "TRON" WEATHERPROOF FUSE HOLDERS #HEB-AD WITH #KTK FUSES (SIZE AS REQUIRED).
 - CONDUIT, EXTEND TO PULL BOX OR NEXT POLE AS REQUIRED.
 - 3/4" x 10'-0" COPPER CLAD GROUND ROD FOR LIGHTNING PROTECTION. CONNECTION TO THE GROUND ROD SHALL BE MADE VIA A UL LISTED MECHANICAL CONNECTION.
 - SEE ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE SIZES AND DESTINATION PANEL. WIRE SIZE UP THE POLE SHALL BE SAME SIZE FEEDING THE POLE.
 - PROVIDE FLUSH IN GRADE (12"x12"x12" MINIMUM) WEATHERPROOF ELECTRIC HANDHOLE ENCLOSURE. ELECTRICAL HANDHOLE ENCLOSURE SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH N.E.C. ARTICLE 314.30 "HANDHOLE ENCLOSURES". THESE BOXES SHALL BE USED AS PULL BOXES ONLY, NO TERMINATIONS SHALL BE MADE IN THESE BOXES EXCEPT FOR THE GROUND CONDUCTOR. LOCATE BOX WITHIN 3'-0" OF POLE BASE, WHERE POSSIBLE. THE BOX SHALL BE LOCATED IN A LANDSCAPE AREA ONLY AND NOT SUSCEPTIBLE TO ANY TRAFFIC CONDITION. COVER SHALL BE RATED FOR THE LOAD IMPOSED UPON IT, AND SHALL BE PROVIDED WITH LOGO STATING "ELECTRICAL".
 - DEPTH OF THE EMBEDMENT OF THE POLE SHALL BE AS RECOMMENDED BY POLE MANUFACTURER TO MEET REQUIRED WIND LOADINGS. MINIMUM EMBEDMENT SHALL NOT BE LESS THAN 8'-0".

STARBUCKS - BAYSIDE (22-144)															
VOLTAGE DROP CALCULATION															
CALCULATIONS BASED ON NATIONAL ELECTRICAL CODE TABLES FOR 85% POWER FACTOR															
CIRCUIT IDENTIFICATION	CIRCUIT INFORMATION				POWER FACTOR	PER PHASE	CU WIRE SIZE IN CONDUIT			AL WIRE SIZE IN CONDUIT			TOTAL DROP	SECTION % DROP	TOTAL %
	LOAD (A)	LENGTH	VOLTAGE	PHASE			PVC	ALUM	STEEL	PVC	ALUM	STEEL			
FIRST SECTION	500	150	208	3	0.85	2							3.71	1.78	1.78
UTILITY TRANSFORMER WIREWAY															
SECOND SECTION	200	35	208	3	0.85	1	3/0						4.77	0.51	2.29
WIREWAY TO PANEL 'A' (WC)															

D-Series Size 1 LED Area Luminaire

Category Number: DSX1-LED-PS-40K-70CRI-TSM-MVOLT
 Notes: SA

Specifications

EPA: 0.69 ft² (0.06 m²)
 Length: 32.71" (831 mm)
 Width: 14.26" (362 mm)
 Height H1: 7.88" (200 mm)
 Height H2: 2.73" (69 mm)
 Weight: 34 lbs (15 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLAIR2 PIRHN DBBX

DSX1 LED	Series	LEDs	Color temperature	Color Rendering Index	Distribution	Mounting	Shipped included		
DSX1 LED	Forward optics	P1	30K	3000K	70CRI	AFR	Asymmetric front view	TSM Type I short	
		P2	40K	4000K	70CRI	T1S	Type I short	T1S Type I short	
		P3	50K	5000K	70CRI	T2M	Type II medium	T2M Type II medium	
	Extended lead times apply	P4	30K	3000K	80CRI	T3M	Type III medium	T3M Type III medium	
		P5	40K	4000K	80CRI	T4M	Type IV medium	T4M Type IV medium	
		P6	50K	5000K	80CRI	T5M	Type V medium	T5M Type V medium	
	Related optics	P11	P12	30K	3000K	80CRI	BLC4	Type I backlight control	BLC4 Type I backlight control
		P11	P13	40K	4000K	80CRI	BLC4	Type II backlight control	BLC4 Type II backlight control
		P11	P13	50K	5000K	80CRI	BLC4	Type III backlight control	BLC4 Type III backlight control

Control options	Other options	Finish required	
Shipped installed NLAIR2 PIRHN 4" x 14" x 8" gpm 1" railed with 1" level motor / ambient sensor & 40° mounting height, ambient sensor enabled at 26" ±0.5"	PER7 Seven-pin receptacle only (controls ordered separately) ^{1,2} FAO Field adjustable output ^{1,3} BL30 Bi-level switched dimming, 50% ±0.5" R90 Right spaced optics ¹ DMG 0-10V dimming with pulse width modulation (for use with an external control, ordered separately) ^{1,4} DS Dual switching ^{1,4,5}	SPROV9 20K surge protection HS Houseline black finish standard ⁶ L90 Left spaced optics ¹ R90 Right spaced optics ¹ CEE Central Connection ⁷ EGS External Gas Shield Invertible, field install required, matches housing finish BS Back spacer, field install required	DDBD Dark Bronze DBLD Black DNAL Natural Aluminum DNDW White DBDZ Textured dark bronze DNAL Textured natural aluminum DNDW Textured white

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D-Series Size 1 LED Area Luminaire

Category Number: DSX1-LED-P3-40K-70CRI-BLC3-MVOLT
 Notes: SB

Specifications

EPA: 0.69 ft² (0.06 m²)
 Length: 32.71" (831 mm)
 Width: 14.26" (362 mm)
 Height H1: 7.88" (200 mm)
 Height H2: 2.73" (69 mm)
 Weight: 34 lbs (15 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLAIR2 PIRHN DBBX

DSX1 LED	Series	LEDs	Color temperature	Color Rendering Index	Distribution	Mounting	Shipped included		
DSX1 LED	Forward optics	P1	30K	3000K	70CRI	AFR	Asymmetric front view	TSM Type I medium	
		P2	40K	4000K	70CRI	T1S	Type I short	T1S Type I short	
		P3	50K	5000K	70CRI	T2M	Type II medium	T2M Type II medium	
	Extended lead times apply	P4	30K	3000K	80CRI	T3M	Type III medium	T3M Type III medium	
		P5	40K	4000K	80CRI	T4M	Type IV medium	T4M Type IV medium	
		P6	50K	5000K	80CRI	T5M	Type V medium	T5M Type V medium	
	Related optics	P11	P12	30K	3000K	80CRI	BLC3	Type I backlight control	BLC3 Type I backlight control
		P11	P13	40K	4000K	80CRI	BLC3	Type II backlight control	BLC3 Type II backlight control
		P11	P13	50K	5000K	80CRI	BLC3	Type III backlight control	BLC3 Type III backlight control

Control options	Other options	Finish required
Shipped installed NLAIR2 PIRHN 4" x 14" x 8" gpm 1" railed with 1" level motor / ambient sensor & 40° mounting height, ambient sensor enabled at 26" ±0.5"	PER7 Seven-pin receptacle only (controls ordered separately) ^{1,2} FAO Field adjustable output ^{1,3} BL30 Bi-level switched dimming, 50% ±0.5" R90 Right spaced optics ¹ DMG 0-10V dimming with pulse width modulation (for use with an external control, ordered separately) ^{1,4} DS Dual switching ^{1,4,5}	DDBD Dark Bronze DBLD Black DNAL Natural Aluminum DNDW White DBDZ Textured dark bronze DNAL Textured natural aluminum DNDW Textured white

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D-Series Size 1 LED Area Luminaire

Category Number: DSX1-LED-PS-40K-70CRI-LCCO-MVOLT
 Notes: SC

Specifications

EPA: 0.69 ft² (0.06 m²)
 Length: 32.71" (831 mm)
 Width: 14.26" (362 mm)
 Height H1: 7.88" (200 mm)
 Height H2: 2.73" (69 mm)
 Weight: 34 lbs (15 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLAIR2 PIRHN DBBX

DSX1 LED	Series	LEDs	Color temperature	Color Rendering Index	Distribution	Mounting	Shipped included		
DSX1 LED	Forward optics	P1	30K	3000K	70CRI	AFR	Asymmetric front view	TSM Type I medium	
		P2	40K	4000K	70CRI	T1S	Type I short	T1S Type I short	
		P3	50K	5000K	70CRI	T2M	Type II medium	T2M Type II medium	
	Extended lead times apply	P4	30K	3000K	80CRI	T3M	Type III medium	T3M Type III medium	
		P5	40K	4000K	80CRI	T4M	Type IV medium	T4M Type IV medium	
		P6	50K	5000K	80CRI	T5M	Type V medium	T5M Type V medium	
	Related optics	P11	P12	30K	3000K	80CRI	LCCO	Left corner cutoff	LCCO Left corner cutoff
		P11	P13	40K	4000K	80CRI	LCCO	Left corner cutoff	LCCO Left corner cutoff
		P11	P13	50K	5000K	80CRI	LCCO	Left corner cutoff	LCCO Left corner cutoff

Control options	Other options	Finish required
Shipped installed NLAIR2 PIRHN 4" x 14" x 8" gpm 1" railed with 1" level motor / ambient sensor & 40° mounting height, ambient sensor enabled at 26" ±0.5"	PER7 Seven-pin receptacle only (controls ordered separately) ^{1,2} FAO Field adjustable output ^{1,3} BL30 Bi-level switched dimming, 50% ±0.5" R90 Right spaced optics ¹ DMG 0-10V dimming with pulse width modulation (for use with an external control, ordered separately) ^{1,4} DS Dual switching ^{1,4,5}	DDBD Dark Bronze DBLD Black DNAL Natural Aluminum DNDW White DBDZ Textured dark bronze DNAL Textured natural aluminum DNDW Textured white

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D-Series Size 1 LED Area Luminaire

Category Number: DSX1-LED-PS-40K-70CRI-BLC3-MVOLT
 Notes: SD

Specifications

EPA: 0.69 ft² (0.06 m²)
 Length: 32.71" (831 mm)
 Width: 14.26" (362 mm)
 Height H1: 7.88" (200 mm)
 Height H2: 2.73" (69 mm)
 Weight: 34 lbs (15 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLAIR2 PIRHN DBBX

DSX1 LED	Series	LEDs	Color temperature	Color Rendering Index	Distribution	Mounting	Shipped included		
DSX1 LED	Forward optics	P1	30K	3000K	70CRI	AFR	Asymmetric front view	TSM Type I medium	
		P2	40K	4000K	70CRI	T1S	Type I short	T1S Type I short	
		P3	50K	5000K	70CRI	T2M	Type II medium	T2M Type II medium	
	Extended lead times apply	P4	30K	3000K	80CRI	T3M	Type III medium	T3M Type III medium	
		P5	40K	4000K	80CRI	T4M	Type IV medium	T4M Type IV medium	
		P6	50K	5000K	80CRI	T5M	Type V medium	T5M Type V medium	
	Related optics	P11	P12	30K	3000K	80CRI	BLC3	Type I backlight control	BLC3 Type I backlight control
		P11	P13	40K	4000K	80CRI	BLC3	Type II backlight control	BLC3 Type II backlight control
		P11	P13	50K	5000K	80CRI	BLC3	Type III backlight control	BLC3 Type III backlight control

Control options	Other options	Finish required
Shipped installed NLAIR2 PIRHN 4" x 14" x 8" gpm 1" railed with 1" level motor / ambient sensor & 40° mounting height, ambient sensor enabled at 26" ±0.5"	PER7 Seven-pin receptacle only (controls ordered separately) ^{1,2} FAO Field adjustable output ^{1,3} BL30 Bi-level switched dimming, 50% ±0.5" R90 Right spaced optics ¹ DMG 0-10V dimming with pulse width modulation (for use with an external control, ordered separately) ^{1,4} DS Dual switching ^{1,4,5}	DDBD Dark Bronze DBLD Black DNAL Natural Aluminum DNDW White DBDZ Textured dark bronze DNAL Textured natural aluminum DNDW Textured white

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LITHONIA LIGHTING

Category Number: WF4-LED-30K-CBA-WF8642-PAN-U
 Notes: (COLOR AS SELECTED BY ARCHITECT)
 Type: CA

FEATURES & SPECIFICATIONS

INTENDED USE — The 4" Wafer LED Downlight with Switchable White provides high-quality light output and efficiency featuring a switch for easy color temperature adjustment — while eliminating the need for recessed housing. The innovative, slim design allows for easy retrofit, remodel or new construction installation from below the ceiling. The Wafer LED Downlight is wet location listed — making it ideal for use in a breadth of outdoor residential, hospitality, commercial and multi-family applications. The LED module maintains at least 70% light output for 50,000 hours.

CONSTRUCTION — Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. F4 aluminum rated cable connector to connect from module to remote driver box. A rated driver with convenience and value of five-recessed adjustable color temperature options, each with setting choice to choose between 2000K, 3000K and 5000K or 3000K, 4000K, and 5000K using the switch. The isolated driver integrated inside steel remote box with 3/16" knockouts with slots for wiring. Suitable for pulling wires with the 12 cable-winch wiring compartment to accommodate up to 18 14 gauge insulated conductors, making the Wafer LED Downlights much easier to wire in 2-in./2-out (plus ground) daisy-chain applications and contractor friendly.

INSTALLATION — Ideal for shallow ceiling systems, no housing required. Used spring clip for easy installation. 4" cut out template is provided to ensure a correct sized hole is cut into ceiling for proper installation of the trim. Size of hole should not exceed 4.14 inches for this product. Suitable for installation in light and damp ceiling applications. 3" square spacers required for installation of the remote driver box.

OPTICS — 4" die-cast LED technology with light-guided lens to distribute light. Polyethylene lens provides even illumination throughout the space.

ELECTRICAL — Connect directly to 120V Class 2 (CAN ICS-505 (B) / NEM-005 (B) LED driver. High efficiency driver with power factor > 0.9. Ambient operating temperature: -4°F to 41°F (-20°F to 104°F @ 40°C). Dimming down to 10% with most standard incandescent dimmers (See list of approved dimmers). Replaces 65W incandescent for 750 lumens.

LISTINGS — CSA certified for US and Canadian safety standards. ENERGY STAR® certified. Wet location. Air Tight certified in accordance with ASTM E283-2004, NEMA Certified. Can be used to comply with California Title 24 Part 4 High Efficiency LED Light Source Requirements.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.lithonia.com/warranty

Note: Actual performance may differ as a result of end-use environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

Specifications

Aperture: 3.2 (81.3)
 Ceiling opening: 4.2 (107.3)
 Overlap trim: 4.2 (107.3)
 Height: 1.1 (27.9)

All dimensions are inches (dimensioned) unless otherwise indicated.

ORDERING INFORMATION For shortest lead times, configure product using standard options (shown in bold).

WF4 Series	LED	Beam	Beam Diameter	CRI	Finish
WF4	LED	37K30R32	2700K/3000K/5000K/3000K/5000K/3000K	90CRI	90CRI
		30K40K50K	3000K/4000K/5000K/3000K/4000K/5000K		

Accessories: Order by category number.

WF4 Series	Accessories	Accessories Category Number
WF4	Remodel kit	WF4R
WF4	3-Pin 20ft Cable	WF4C3
WF4	3-Pin 10ft Cable	WF4C2
WF4	3-Pin 5ft Cable	WF4C1
WF4	4" Round recessed trim ring	WF4TR

WF4-LED - Switchable White

LITHONIA LIGHTING

Category Number: DAWN EWS53908 WALL
 Project: EWS53908(CBA) CBA = COLOR BY ARCHITECT
 Type: TV

DESCRIPTION

Formed aluminum with powder-coated finish, inlaid stone and glass diffuser. Available in 3 finishes.

Specifications

Width: 13-3/4" (34.9 mm)
 Depth: 10" (25.4 mm)
 Height: 6-3/8" (16.2 mm)

Ordering Information EXAMPLE: DSXW1 LED 10C 1000 30K T3M MVOLT DBDXTD

DSXW1 LED	Series	LEDs	Color temperature	Distribution	Mounting	Shipped included	Control options	Other options	Finish required	
DSXW1 LED	Forward optics	P1	1000	3000K	T1S	Type I Short	AFR	Asymmetric front view	TSM Type I short	
		P2	1000	4000K	T1S	Type I Short	T1S	Type I short	T1S Type I short	
		P3	1000	5000K	T2M	Type II Medium	T2M	Type II medium	T2M Type II medium	
	Extended lead times apply	P4	1000	3000K	T3M	Type III Medium	T3M	Type III medium	T3M Type III medium	
		P5	1000	4000K	T4M	Type IV Medium	T4M	Type IV medium	T4M Type IV medium	
		P6	1000	5000K	T5M	Type V Medium	T5M	Type V medium	T5M Type V medium	
	Related optics	P11	P12	1000	3000K	BLC4	Type I Backlight Control	BLC4	Type I backlight control	BLC4 Type I backlight control
		P11	P13	1000	4000K	BLC4	Type II Backlight Control	BLC4	Type II backlight control	BLC4 Type II backlight control
		P11	P13	1000	5000K	BLC4	Type III Backlight Control	BLC4	Type III backlight control	BLC4 Type III backlight control

Accessories

DSXW1 LED	Accessories	Accessories Category Number
DSXW1 LED	Recessed hole for light output	DSXW1R
DSXW1 LED	Recessed hole for light output	DSXW1R
DSXW1 LED	Recessed hole for light output	DSXW1R

LITHONIA LIGHTING

Category Number: DSXW1 LED 10C 1000 30K T3M MVOLT ELCW
 Notes: WAE

DESCRIPTION

Formed aluminum with powder-coated finish, inlaid stone and glass diffuser. Available in 3 finishes.

Specifications

Width: 13-3/4" (34.9 mm)
 Depth: 4" (101.6 mm)
 Height: 6-3/8" (16.2 mm)

Ordering Information EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DBDXTD

DSXW1 LED	Series	LEDs	Color temperature	Distribution	Mounting	Shipped included	Control options	Other options	Finish required	
DSXW1 LED	Forward optics	P1	2000	3000K	T1S	Type I Short	AFR	Asymmetric front view	TSM Type I short	
		P2	2000	4000K	T1S	Type I Short	T1S	Type I short	T1S Type I short	
		P3	2000	5000K	T2M	Type II Medium	T2M	Type II medium	T2M Type II medium	
	Extended lead times apply	P4	2000	3000K	T3M	Type III Medium	T3M	Type III medium	T3M Type III medium	
		P5	2000	4000K	T4M	Type IV Medium	T4M	Type IV medium	T4M Type IV medium	
		P6	2000	5000K	T5M	Type V Medium	T5M	Type V medium	T5M Type V medium	
	Related optics	P11	P12	2000	3000K	BLC4	Type I Backlight Control	BLC4	Type I backlight control	BLC4 Type I backlight control
		P11	P13	2000	4000K	BLC4	Type II Backlight Control	BLC4	Type II backlight control	BLC4 Type II backlight control
		P11	P13	2000	5000K	BLC4	Type III Backlight Control	BLC4	Type III backlight control	BLC4 Type III backlight control

Accessories

DSXW1 LED	Accessories	Accessories Category Number
DSXW1 LED	Recessed hole for light output	DSXW1R
DSXW1 LED	Recessed hole for light output	DSXW1R
DSXW1 LED	Recessed hole for light output	DSXW1R



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TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEHAÏEB, P.E.
 FL License No. 49521

REVISED PER BUILDING PERMIT COMMENTS & TENANT CORRECT.	NO.	DATE	REVISION DESCRIPTIONS

STARBUCKS SHELL CONSTRUCTION</

FIXTURE SCHEDULE							
TYPE	MANUFACTURER	CATALOG NO.	VOLT	LAMPS	MOUNTING	REMARKS	VA
A	LITHONIA	CS5-L48-4000LM-40K-80CRI-MVOLT	120	LED 4000LM 40K	SURFACE	4' LED GENERAL PURPOSE STRIP LIGHT	36
CA	LITHONIA	HF4-LED-30K-CBA - 90CRI-HF8643 PAN U	120	LED T50 DELIVERED LUMENS AT 3000K	RECESSED	EXTERIOR UNDER CANOPY	10
ER	DUAL-LITE	OCR-D-B-0603L (CBA)	120	LED	EXTERIOR WALL MOUNT	REMOTE LED DOUBLE EMERGENCY HEAD	3
XO	DUAL-LITE	HCX-U-R-14-03L-RC12	120	LED	CEILING OR WALL ABOVE DOOR	COMBINATION TRIN HEAD/ LED EXIT SIGN WITH INTEGRAL 90 MIN. BATTERY BACK-UP	4
HAE	LITHONIA	DSXW-LED-10G-1000-30K-T3M-MVOLT-ELCH	120	LED (3000K)	WALL	LED HALL PACK WITH EMERG. BATTERY	34
D	KUZCO LIGHTING	EM53908-(CBA)	120	LED-3000K INCLUDED	SURFACE WALL MTD. SEE ARCH. EXT. ELEVATION	NET LABEL - LED ACCENT LIGHT	10

CBA = COLOR AS SELECTED BY ARCHITECT.

NOTES:

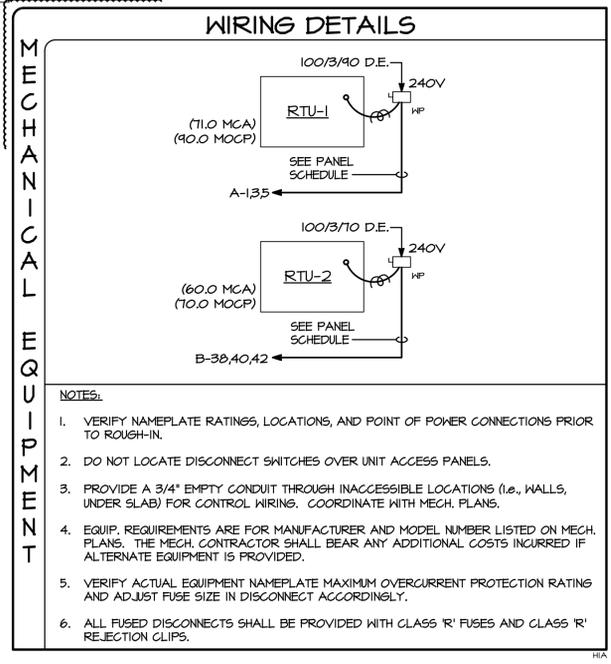
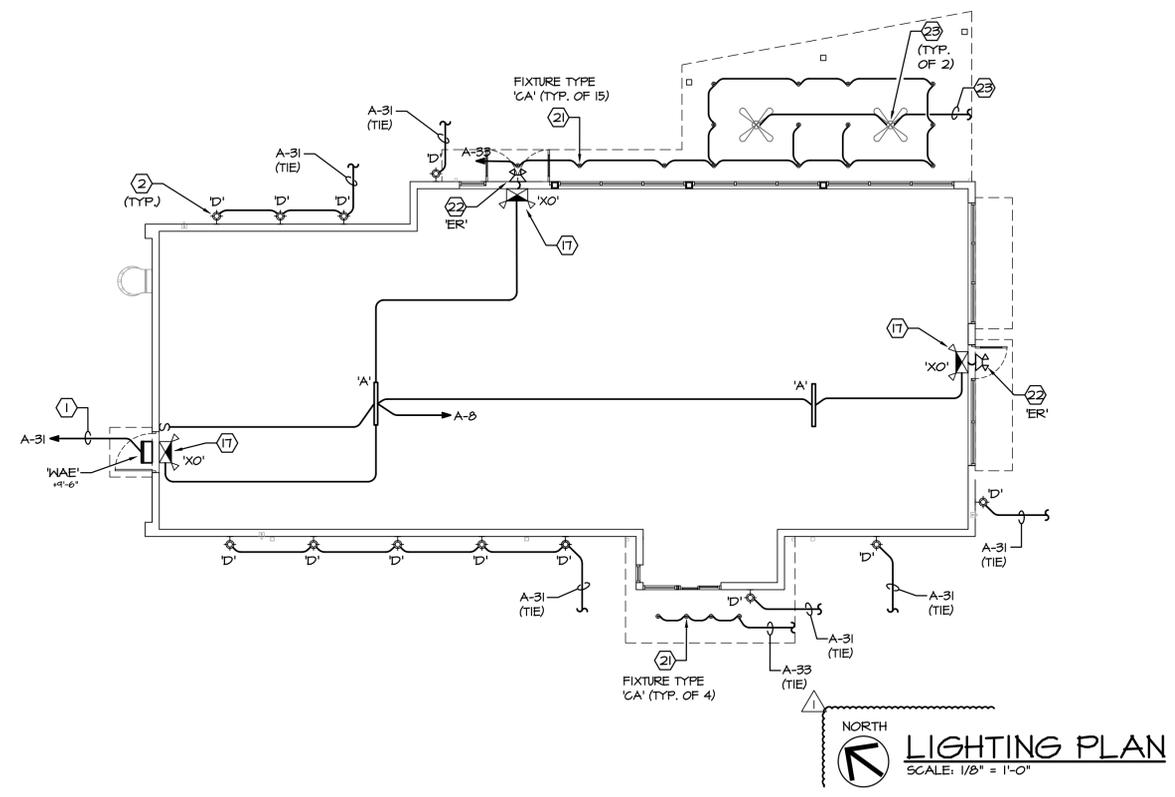
- ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE ENERGY SAVING LAMPS WITH ELECTRONIC BALLASTS AS SHOWN IN THE SCHEDULE.
- PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR ALL FIXTURES. ACCESSORIES SHALL INCLUDE ALL HARDWARE TO MOUNT FIXTURES AS SHOWN ON SCHEDULES AND/OR DESCRIBED IN THE NOTES.
- ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL (EQUALS ONLY).
- ALL EMERGENCY, EXIT AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED AHEAD OF LOCAL SWITCHES, RELAYS, OR CONTACTORS UNLESS OTHERWISE NOTED.
- ALL PRE SUBMITTALS SHALL BE ACCOMPANIED WITH PHOTOMETRIC DATA.
- EQUAL ACCEPTED MANUFACTURERS ARE, DAY-BRITE, LITHONIA, AND COLUMBIA. EVEN THOUGH THESE MANUFACTURERS ARE ACCEPTED, A TEN DAY PRIOR APPROVAL MUST BE SUBMITTED FOR EVALUATION.
- CATALOG NUMBER ON FIXTURE SCHEDULE MAY NOT REFERENCE EVERY HARDWARE COMPONENT REQUIRED TO MOUNT FIXTURE AS INTENDED. CONTACT THE MANUFACTURER FOR PROPER MOUNTING HARDWARE AND ANY ADDITIONAL COMPONENTS REQUIRED TO MOUNT FIXTURE AS INTENDED OR SHOWN.
- LAMPS SHALL BE ENERGY SAVINGS, COLOR TEMPERATURE AS SHOWN ON SCHEDULE WITH MINIMUM CRI OF 82.
- LAMPS SHALL BE BY SYLVANIA, G.E., OR PHILIPS, EXCEPT WHEN SUCH LAMPS ARE NOT AVAILABLE FROM THESE MANUFACTURERS, OR SPECIFIED OTHERWISE IN SCHEDULE.

10. SHOP DRAWINGS SHALL INCLUDE:

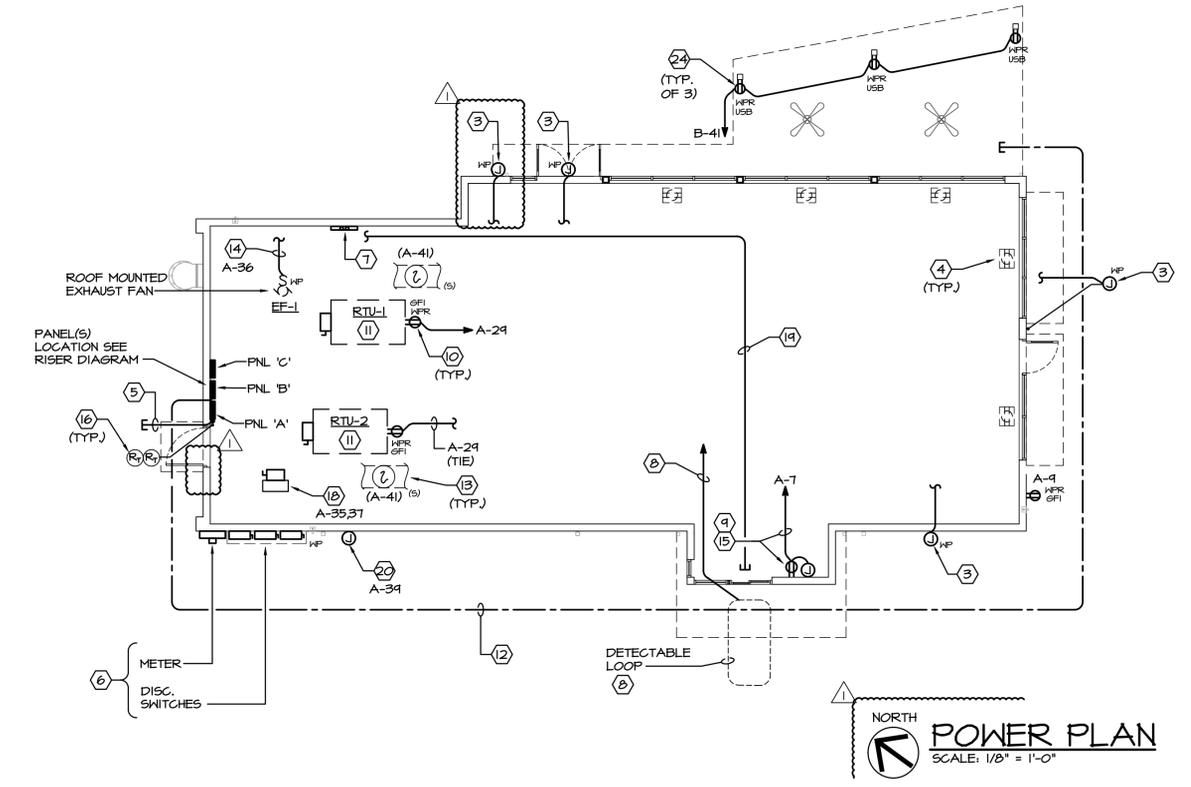
- COMPLETE FIXTURE CUT SHEETS INCLUDING PHOTOMETRICS.
- BALLAST CUT SHEETS.
- WHERE COLOR SELECTION IS REQUIRED, COLOR CHART SHALL BE PROVIDED WITH THE SHOP DRAWINGS FOR SELECTION BY ARCHITECT/OWNER.
- LAMP CUT SHEETS.

NOTES:

- SHOP DRAWINGS SHALL BE PREPARED BY MANUFACTURER REPRESENTATIVE, AND NOT BY CONTRACTOR.
- CONTRACTOR SHALL PROVIDE ALL OF THE REQUIRED DATA LISTED ABOVE WITH THE SHOP DRAWINGS.
- EMERGENCY LIGHTING SYSTEM INCLUDING BUT NOT LIMITED TO BATTERY BALLAST IN THE FLUORESCENT FIXTURES SHALL BE UL LISTED AND COMPLY WITH NFPA 101 LIFE SAFETY CODE SECTION 7.4. THE SYSTEM SHALL BE PERIODICALLY TESTED PER NFPA 101 SECTION 7.4.3.1.1.
- ALL LINEAR LUMINARIES SHALL COMPLY WITH NEC 410.73 (6) FOR BALLAST DISCONNECT.
- CONTRACTOR SHALL COORDINATE WITH CANOPY INSTALLER FOR FIXTURE LOCATION AND DRIVER LOCATION AND PROVIDE ACCORDINGLY.



- NOTES**
- CIRCUIT(S) TO BE CONTROLLED BY PHOTOCELL.
 - EXTERIOR MOUNTED LIGHT FIXTURE. SEE ARCHITECTURAL ELEVATION FOR EXACT LOCATION.
 - PROVIDE WEATHERPROOF JUNCTION BOX WITH 1" CONDUIT STUBBED IN TO BEAM SPACE FOR TENANT SIGNAGE. COORDINATE WITH SIGN CONTRACTOR PRIOR TO ROUGH-IN.
 - SHOW WINDOW RECEPTACLES IN ACCORDANCE WITH NEC 210.62 TO BE FURNISHED AND INSTALLED UNDER TENANT FIT-UP DRAWINGS.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE THREE SPARE 1" CONDUITS WITH PULLWIRE RUN THRU FOUNDATION WALL OUT REAR OF BUILDING AND CAPPED 18" A.F.F. CONDUIT SHALL BE TERMINATED ABOVE CEILING. VERIFY STUB-UP LOCATIONS ON SITE WITH TENANT.
 - ELECTRIC SERVICE LOCATION. SEE RISER DIAGRAM ON SHEET E3.0.
 - TELEPHONE AND CABLE TV SERVICE STUB-UP. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. CONDUITS TO BE STUBBED UP AT A LOCATION COORDINATED WITH THE TENANT BUILD-OUT DOCUMENTS.
 - DETECTOR LOOP CENTERED ON THE WINDOW 2" BELOW FINISH GRADE. ROUTE (1) 1" CONDUIT WITH PULL WIRE TO DRIVE THRU WINDOW AND TERMINATE NEAR TIME SIGNAL PROCESSOR (TSP). (FIELD COORDINATE EXACT LOCATION WITH TENANT PRIOR TO ROUGH-IN.
 - DRIVE THRU AUTOMATIC SLIDER WINDOW. PROVIDE (1) 120V, CIRCUIT WITH A J-BOX. SEE MANUFACTURER SPECIFICATIONS FOR FURTHER REQUIREMENTS.
 - WEATHERPROOF, GFI, WEATHER RESISTANCE TYPE, DUPLEX RECEPTACLE MOUNTED AT RTU. TIE TO INDICATED CIRCUIT.
 - HVAC ROOF TOP UNIT. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION. SEE DETAIL ON THIS SHEET.
 - (2) 1" CONDUIT WITH PULLWIRE TO BE RUN THROUGH FOUNDATION WALL TO FRONT OF BUILDING PATIO SEATING AREA. VERIFY LOCATIONS FOR STUB-UP WITH TENANT'S REPRESENTATIVE. CONDUIT SHALL TERMINATE AT THE DESIGNATED PANEL.
 - DUCT SMOKE DETECTOR IN SUPPLY AIR STREAM. SEE DETAIL ON SHEET E3.0.
 - 120V, CIRCUIT FROM A MAINTENANCE SWITCH AT THE EXHAUST FAN TO A J-BOX ABOVE CEILING AT THE SOURCE PANEL LOCATION AND EXTENDED TO THE SOURCE PANEL, FOR FUTURE CONTROL BY TENANT TI PLANS. MAKE ALL FINAL TERMINATIONS AS REQUIRED.
 - PROVIDE 120V, 20A DUPLEX OUTLET FOR DRIVE-THRU ELECTRIC RELEASE AUTOMATIC SLIDER WINDOW. MOUNT AT 80" A.F.F. SEE MANUFACTURER SPECIFICATION FOR FURTHER REQUIREMENTS. COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE.
 - REMOTE TEST SWITCHES. FIELD VERIFY EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN. SEE DETAIL ON SHEET E3.0.
 - COMBINATION EXIT/EMERGENCY LIGHT TO BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING OR CONTROL.
 - 3-HP 208V, 1-PHASE BOOSTER PUMP, WHERE REQUIRED. PROVIDE 60A, 2-POLE FUSED DISCONNECT, 240V, NEMA 1 FUSED PER NAME PLATE RATING OF MOTOR. FIELD VERIFY EXACT PUMP LOCATION PRIOR TO ROUGH-IN.
 - PROVIDE (1) 1-1/2" CONDUIT FROM DATA RACK AT MANAGERS WORK STATION TO DRIVE THRU BUMP-OUT. FIELD COORDINATE EXACT TERMINATION POINT AND ROUTING PRIOR TO ROUGH-IN.
 - WEATHER PROOF BOX WITH COVER FOR IRRIGATION CONTROLLER. FIELD VERIFY EXACT LOCATION. TIE TO INDICATED CIRCUIT. MAKE FINAL TERMINATION TO THE CONTROLLER AS REQUIRED.
 - RECESSED LIGHT FIXTURES. TIE TO THE CIRCUIT AND CONTROL INDICATED. ALL CONDUITS AND WIRING SHALL BE FULLY CONCEALED IN THE CANOPY.
 - REMOTE OUTDOOR EMERGENCY FIXTURE SURFACE MOUNTED TO THE BOTTOM OF THE CANOPY. ALL CONDUITS AND WIRING SHALL BE FULLY CONCEALED IN CANOPY.
 - PROVIDE J-BOX FOR PADDLE FAN SUPPORTED PER N.E.C. AND LISTED FOR FAN INSTALLATION. PROVIDE 1/2" CONDUIT WITH WIRE BETWEEN BOXES AND 1/2" CONDUIT WITH PULL WIRE TO THE INSIDE OF THE STORE CEILING STRUCTURE FOR POWER AND CONTROL BY OTHERS. ALL CONDUITS AND WIRING SHALL BE FULLY CONCEALED IN SOFFIT.
 - PATIO RECEPTACLE. PROVIDE 20AMP USB WEATHER RESISTANCE OUTLET WITH A "WET WHILE IN USE" COVER IN A NEMA 3R BELL BOX. MOUNT BOX BETWEEN, AND SUPPORTED BY VERTICAL RAILINGS. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. POWERED BY A GFCI BREAKER.



CONDUIT STUB-UP NOTE:
COORDINATE ALL STUB-UP LOCATIONS AND REQUIREMENTS WITH TENANT PLANS PRIOR TO ROUGH-IN. PROVIDE PULLWIRE FOR ALL EMPTY CONDUITS. CAP AND LABEL EACH CONDUIT STUB-UP.

WORK SHOWN UNDER THIS PERMIT IS FOR SHELL BUILDING ONLY. ALL ADDITIONAL INTERIOR WORK TO BE PERFORMED UNDER SEPARATE PERMIT, PRIOR TO TENANT OCCUPYING SPACE.

EQUIPMENT STUB-UP NOTE
ELECTRICAL CONTRACTOR SHALL OBTAIN A COPY OF TENANT DRAWING I-111 FOR LAYOUT OF CONDUIT STUB-UPS AT EQUIPMENT LOCATIONS. PROVIDE PULLWIRE IN ALL CONDUIT STUB-UP RUNS. CONDUITS TO BE RUN UNDERSLAB TO ADJACENT FULL HEIGHT WALL AND UP IN FURRED OUT SPACE TO ABOVE DROP CEILING FOR FUTURE WIRING.

CHEHAYEB & ASSOCIATES, INC.
CONSULTING PROFESSIONAL ENGINEERS

3702 AZEELE ST. TAMPA, FL 33609 (813) 876-1415 www.chehayeb.com

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Holiday, Florida 34690
Ph. 727. 815. 3336
Fax 727. 815. 3337

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEHAYEB, P.E.
FL License No. 49521

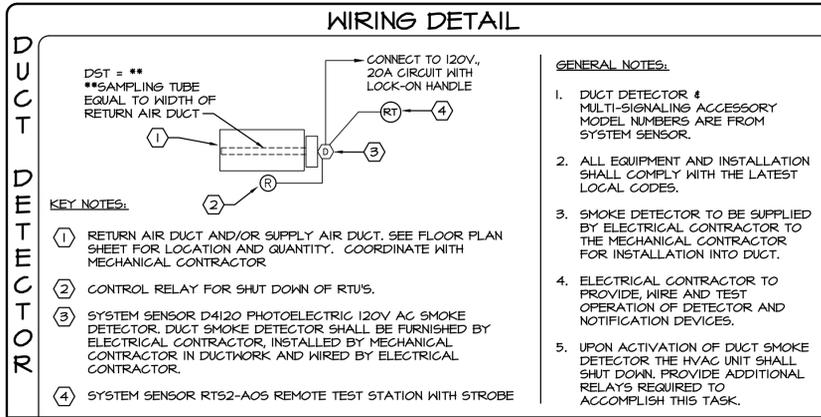
no.	date	revision descriptions
10/17/2023		REVISED PER BUILDING PERMIT COMMENTS & TENANT CORRD.

STARBUCKS SHELL CONSTRUCTION
BAYSIDE LAKES BLVD
PALM BAY, FL

12.02.2022 date
22032 comm. no.

LIGHTING AND POWER PLANS

E2.0



MANUFACTURER: SIEMENS - PANEL: A LOCATION: SEE PLANS SPECIAL: -

PANEL TYPE: PANEL BOARD FED FROM: DISCONNECT 'A' 120/208 VOLTS 3 PHASE 4 WIRE/SOLID NEUTRAL AMPERE BUS 225 AMPERE MAIN 225

42K INTERRUPTING CAPACITY (AIC) RATED: SERIES: X FULL: - MOUNTING: FLUSH X SURFACE MAIN TYPE LUGS

No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	C	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.
1	6.7	-	-	-	-	RTU-1	A3		6.7			20	-	SPARE	-	-	-	0.0	2	
3	6.7	-	3#3	1#8	1-1/4"		A3	100	6.7			20	-	SPARE	-	-	-	0.0	4	
5	6.7	-	-	-	-		A3		6.7			20	-	SPARE	-	-	-	0.0	6	
7	0.6	-	2#12	1#12	1/2"	AUTOMATIC SLIDE WINDOW	M	20	1.0			20	L	INTERIOR LIGHTING	2#12	1#12	1/2"	-	0.4	8
9	0.4	-	2#12	1#12	1/2"	EXTERIOR RECEPT	M	20		0.8		20(L)	M	TIME CLOCK POWER	2#12	1#12	1/2"	-	0.4	10
11	0.0	-	-	-	-	SPARE	-	20			0.0	20	-	SPARE	-	-	-	0.0	12	
13	0.0	-	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	0.0	14	
15	0.0	-	-	-	-	SPARE	-	20			0.0	20	-	SPARE	-	-	-	0.0	16	
17	0.5	C1	(*)	(*)	(*)	SITE LIGHTING	L			0.5		20	-	SPARE	-	-	-	0.0	18	
19	0.5	C1	(*)	(*)	(*)	SITE LIGHTING	L			0.5		20	-	SPARE	-	-	-	0.0	20	
21	0.5	C2	(*)	(*)	(*)	SITE LIGHTING	L			0.5		20	-	SPARE	-	-	-	0.0	22	
23	0.5	C2	(*)	(*)	(*)	SITE LIGHTING	L			0.5		20	-	SPARE	-	-	-	0.0	24	
25	0.0	-	-	-	-	SPARE	-	20	0.0			20	-	SPARE	-	-	-	0.0	26	
27	0.0	-	-	-	-	SPARE	-	20			0.0	20	-	SPARE	-	-	-	0.0	28	
29	0.4	-	2#12	1#12	1/2"	MAINTENANCE RECEPT	M	20			0.4	20	-	SPARE	-	-	-	0.0	30	
31	0.8	C1	2#12	1#12	1/2"	EXTERIOR WALL PACKS	L	20	0.8			20	-	SPARE	-	-	-	0.0	32	
33	0.1	C2	2#12	1#12	1/2"	EXTERIOR LIGHTING	L	20		0.1		20	-	SPARE	-	-	-	0.0	34	
35	1.8	-	2#8	1#8	1"	BP-1	M	40			2.3	20	M	EXHAUST FAN	2#12	1#12	1/2"	-	0.5	36
37	1.8	-	-	-	-		M	40		1.8		20	-	SPARE	-	-	-	0.0	38	
39	0.4	-	2#12	1#12	1/2"	IRRIGATION CONTROLLER	M	20			0.4	30(L)	-	SURGE SUPPRESSION	4#10	1#10	3/4"	-	0.0	40
41	0.4	-	2#12	1#12	1/2"	DUCT SMOKE DETECTOR	M	20(L)			0.4		-	SPARE	-	-	-	0.0	42	

LEGEND/NOTES:
 20(L) = PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER
 (*) = SEE SITE E.I.O FOR CONDUIT SIZE AND QUANTITY

CONNECTED LOAD KVA: 30.1
STD. DEMAND FACTOR (1.0): 26.8
+ LTG DEMAND (1.25 LTG): 4.1
+ KITCHEN DEMAND: 0.0 **TOTAL DEMAND KVA: 30.9**
DEMAND AMPERES: 85.8

GRAND TOTAL: 10.8 8.5 10.8 **KITCHEN MULTIPLIER PER NEC 2017 TABLE 220.56**

MANUFACTURER: SIEMENS - PANEL: B LOCATION: SEE PLANS SPECIAL: -

PANEL TYPE: PANEL BOARD FED FROM: DISCONNECT 'B' 120/208 VOLTS 3 PHASE 4 WIRE/SOLID NEUTRAL AMPERE BUS 225 AMPERE MAIN 225

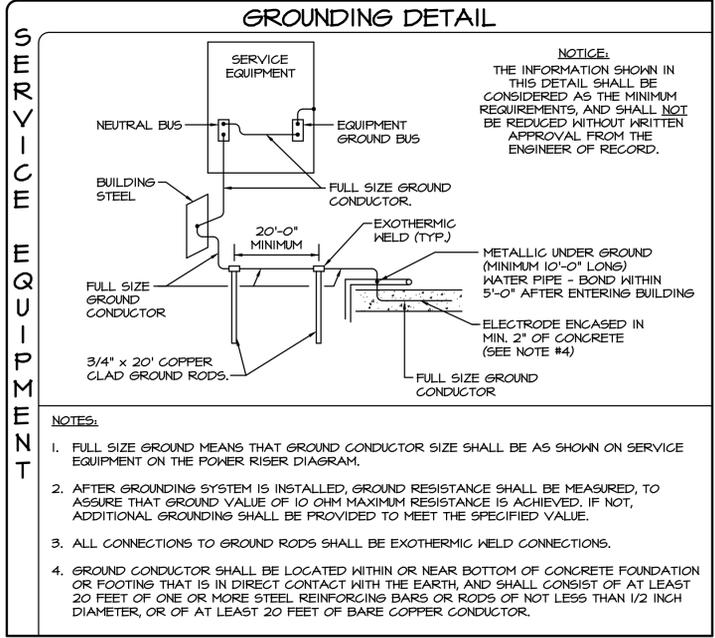
42K INTERRUPTING CAPACITY (AIC) RATED: SERIES: X FULL: - MOUNTING: FLUSH X SURFACE MAIN TYPE LUGS

No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	C	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.
1	0.0	GFI	-	-	-	SPARE	-	20	0.0			20	-	SPARE	-	-	-	GFI	0.0	2
3	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	4
5	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	6
7	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	8
9	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	10
11	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	12
13	0.0	GFI	-	-	-	SPARE	-	20	0.0			20	-	SPARE	-	-	-	GFI	0.0	14
15	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	16
17	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	18
19	0.0	GFI	-	-	-	SPARE	-	20	0.0			20	-	SPARE	-	-	-	GFI	0.0	20
21	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	22
23	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	24
25	0.0	GFI	-	-	-	SPARE	-	40	0.0			20	-	SPARE	-	-	-	GFI	0.0	26
27	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	28
29	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	30
31	0.0	GFI	-	-	-	SPARE	-	20	0.0			20	-	SPARE	-	-	-	GFI	0.0	32
33	0.0	GFI	-	-	-	SPARE	-	20		0.0		30(L)	-	SURGE SUPPRESSION	4#10	1#10	3/4"	-	0.0	34
35	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	36
37	0.0	GFI	-	-	-	SPARE	-	20		5.4		A3	-	SPARE	-	-	-	GFI	0.0	38
39	0.0	GFI	-	-	-	SPARE	-	20		5.4		A3	-	SPARE	-	-	-	GFI	0.0	40
41	0.8	GFI	2#10	1#10	3/4"	PATIO RECEPTACLES	R	20			6.2	A3	-	SPARE	-	-	-	GFI	0.0	42

LEGEND/NOTES:
 20(L) = PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER
 (*) = SEE SITE E.I.O FOR CONDUIT SIZE AND QUANTITY

CONNECTED LOAD KVA: 17.0
STD. DEMAND FACTOR (1.0): 17.0
+ LTG DEMAND (1.25 LTG): 0.0
+ KITCHEN DEMAND: 0.0 **TOTAL DEMAND KVA: 17.0**
DEMAND AMPERES: 47.2

GRAND TOTAL: 5.4 5.4 6.2 **KITCHEN MULTIPLIER PER NEC 2017 TABLE 220.56**



NOTE:
 LOAD SHOWN ON THIS DOCUMENT IS FOR THE SHELL PORTION OF THE PROJECT ONLY. ESTIMATED LOAD FOR THE SHELL AND THE INTERIOR BUILDOUT OF THIS PROJECT IS APPROXIMATELY 18) DEMAND KVA OR 500.0 DEMAND AMPS AT 120/208V, 3-PHASE, 4-WIRE.

PANEL SCHEDULE LEGEND

LOAD CODES	DESIGNATION
A/V3 = HVAC LOAD	IG = ISOLATED GROUND CIRCUIT
K# = KITCHEN LOADS (1, 2 OR 3 CIRCUIT)	GFI = GROUND FAULT INTERRUPTER
L/L3 = LIGHTING LOAD	C# = CONTACTOR CONTROLLED (#) INDICATES CONTACTOR NUMBER
M/M3 = MISCELLANEOUS LOAD	PC = PHOTOCELL CONTROLLED
R = RECEPTACLE LOAD	CR# = CONTROLLED BY LCP (#) INDICATES RELAY NUMBER
F/F3 = REFRIGERATION LOAD	SF = SUB-FEED BREAKER
W/W3 = WATER HEATER	NB = NEW BREAKER TO MATCH EXISTING IN TYPE, STYLE AND AIC RATING.
U/U3 = USER SPECIFIED LOAD	
X = EXCLUDED, NON-CONCURRENT LOAD. (HVAC LOADS ARE NON-CONCURRENT; TOTALS BASED ON HIGHER VALUE.)	

MANUFACTURER: SIEMENS - PANEL: C LOCATION: SEE PLANS SPECIAL: -

PANEL TYPE: PANEL BOARD FED FROM: DISCONNECT 'C' 120/208 VOLTS 3 PHASE 4 WIRE/SOLID NEUTRAL AMPERE BUS 225 AMPERE MAIN 225

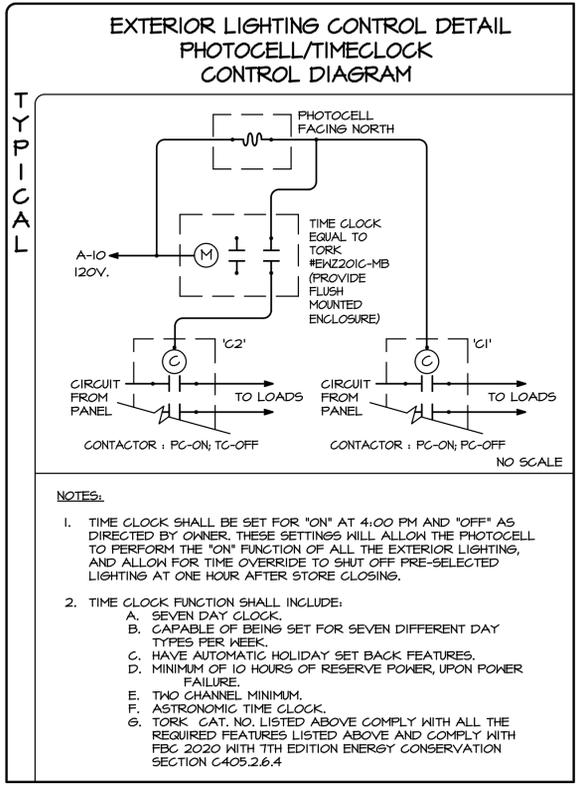
42K INTERRUPTING CAPACITY (AIC) RATED: SERIES: X FULL: - MOUNTING: FLUSH X SURFACE MAIN TYPE LUGS

No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	C	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.
1	0.0	GFI	-	-	-	SPARE	-	40	0.0			20	-	SPARE	-	-	-	GFI	0.0	2
3	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	4
5	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	6
7	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	8
9	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	10
11	0.0	GFI	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	GFI	0.0	12
13	0.0	GFI	-	-	-	SPARE	-	50		0.0		20	-	SPARE	-	-	-	GFI	0.0	14
15	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	16
17	0.0	GFI	-	-	-	SPARE	-	20		0.0		50	-	SPARE	-	-	-	GFI	0.0	18
19	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	20
21	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	22
23	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	24
25	0.0	GFI	-	-	-	SPARE	-	20	0.0			20	-	SPARE	-	-	-	GFI	0.0	26
27	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	28
29	0.0	GFI	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	GFI	0.0	30
31	0.0	-	-	-	-	SPARE	-	20	0.0			20	-	SPARE	-	-	-	GFI	0.0	32
33	0.0	-	-	-	-	SPARE	-	50		0.0		20	-	SPARE	-	-	-	GFI	0.0	34
35	0.0	-	-	-	-	SPARE	-	50		0.0		20	-	SPARE	-	-	-	GFI	0.0	36
37	0.0	-	-	-	-	SPARE	-	20		0.0		30(L)	-	SPARE	-	-	-	GFI	0.0	38
39	0.0	-	-	-	-	SPARE	-	20		0.0		30(L)	-	SURGE SUPPRESSION	4#10	1#10	3/4"	-	0.0	40
41	0.0	-	-	-	-	SPARE	-	20		0.0		30(L)	-	SPARE	-	-	-	GFI	0.0	42

LEGEND/NOTES:
 20(L) = PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER
 (*) = SEE SITE E.I.O FOR CONDUIT SIZE AND QUANTITY

CONNECTED LOAD KVA: 0.0
STD. DEMAND FACTOR (1.0): 0.0
+ LTG DEMAND (1.25 LTG): 0.0
+ KITCHEN DEMAND: 0.0 **TOTAL DEMAND KVA: 0.0**
DEMAND AMPERES: 0.0

GRAND TOTAL: 0.0 0.0 0.0 **KITCHEN MULTIPLIER PER NEC 2017 TABLE 220.56**



- ### NOTES
- (2) SETS OF 3-1/2" CONDUITS WITH 4 - #350 MCM CU. IN EACH.
 - DEDUCT ALTERNATE. CONTRACTOR SHALL PROVIDE A DEDUCT ALTERNATE TO USE ALUMINUM IN LIEU OF COPPER, AS FOLLOWS:
 - (2) SETS OF 3-1/2" CONDUITS WITH 4 - #500 MCM AL. (XHHN) IN EACH. SEE NOTES SHEET E.I.J FOR ALUMINUM SPECIFICATIONS.
 - #3/0 CU. GROUND. SEE GROUNDING DETAIL ON THIS SHEET.
 - 600 AMP, 120/208V, 3-PHASE METER. FURNISHED AND INSTALLED BY THE CONTRACTOR PER UTILITY COMPANY REQUIREMENTS.
 - (4) #3/0 CU. AND (1) #6 E.S. IN 2-1/2" CONDUIT.
 - 3-PH, 4-W SERVICE ENTRANCE RATED, NEMA 3R, 200A, FUSED DISCONNECT, FUSED AT 200 AMPS, HEAVY DUTY, SWITCH WITH SOLID NEUTRAL, CLASS 'J' FUSES. DISCONNECT SHALL BE LOCKABLE IN THE ON OR OFF POSITIONS.
 - TIME CLOCK. SEE DETAIL THIS SHEET.
 - NEW 3-PH, 120/208V, PAD MOUNTED TRANSFORMER. SEE ELECTRICAL SITE PLAN SHEET E.I.O.
 - LIGHTNING SURGE SUPPRESSOR. EQUAL TO SURGE SUPPRESSION INC. STM-30D-3Y1-P (120/208V, 3-PHASE, 5 WIRE) WITH FLUSH MOUNT

DIVISION 16 – ELECTRICAL

SECTION 16010 – GENERAL PROVISIONS

- 1. GENERAL
1.01 The following are minimum requirements and shall govern, except that building laws and/or drawings shall govern when their requirements are in excess thereof.
2. DRAWINGS AND SPECIFICATIONS
2.01 The architectural, mechanical, electrical and equipment drawings and specifications are hereby incorporated into and become a part of this Division.
2.02 Electrical drawings are diagrammatic and are intended to show the approximate locations of equipment and piping.
2.03 The exact locations of apparatus, fixtures, equipment and conduits shall be ascertained from the Owner's representative in the field, and the work shall be laid out accordingly.
2.04 The electrical drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished and supplied even though not specifically mentioned in both.
2.05 The work required under these specifications includes all labor, materials, equipment and services necessary to provide lighting and power systems, service entrances, motor controls and connections, branch circuiting, feeders, panels, fixtures, wiring devices, and other items shown on the plans or specified.
2.06 When the specification of an item is not identified with a particular area, the item shall pertain to all areas.
2.07 This Contractor shall furnish such labor and materials as hereinafter specified and as required to complete all electrical connections in accordance with the manufacturer's requirements for all mechanical equipment and Owner's equipment as shown and/or specified.
3. EXAMINATION OF SITE
3.01 Bidder is to visit the site and familiarize himself with existing conditions and satisfy himself as to the nature and scope of work.
4. DEFINITIONS
4.01 "Install" shall mean to place, fix in position, secure, anchor, wire, etc., including necessary appurtenances and labor so that equipment or installation will function as specified and intended.
4.02 "Furnish" shall mean to purchase and supply equipment or components.
4.03 "Provide" shall mean to "furnish and install".
4.04 "Or approved equal" shall mean equal in type, design, quality, style, color, etc., as determined by the Engineer/Architect.
5. INTERFERENCES
5.01 It shall be the duty of this Contractor to report any interferences between his work and that of any other Contractor to the Owner or Architect as soon as they are discovered.
6. MATERIALS AND WORKMANSHIP
6.01 All work shall be installed in a practical and workmanlike manner by competent workmen, skilled in their branch of the trade.
6.02 Unless otherwise specified or indicated on the drawings, all materials shall be new and free from defects and shall be the best of their several kinds.
6.03 All material and equipment shall meet or exceed standards specified by UL, NEMA, ANSI and IEEE wherever such standards have been established.
6.04 From time-to-time during the operation and at the completion thereof, this Contractor shall remove all debris and excess materials caused by his work and he shall leave the area of the operation broom clean.
6.05 All electrical equipment and material shall bear the Underwriter's Laboratories label.
7. SUPPORTS
7.01 This Contractor shall furnish and install all angle iron, channel iron, rods, supports or hangers required to install or mount panelboards, switchboards, or any electrical equipment called for on the plans, in these specifications, or as necessary to mount any piece of electrical equipment, material, or device.
8. TEMPORARY CONSTRUCTION POWER AND LIGHTING
8.01 Sufficient temporary power, during construction, for heating, lighting, appliances, or motorized portable equipment shall be provided by the Electrical Contractor.
9. CODES, LAWS, PERMITS AND INSPECTIONS
9.01 Install all work in full accordance with codes, rules and regulations of municipal, city, county, state and public utility, and all other authorities having jurisdiction over the premises.
9.02 Comply with specification requirements which are in excess of code requirements and not in conflict with same.
9.03 The Contractor shall secure all permits and certificates of inspection incidental to the work, required by foregoing authorities.
10. FIELD CHANGES (AS BUILT DRAWINGS)
10.01 Keep one (1) set of working drawings and shop drawings at the job site for sole purpose of recording all changes made during construction.
11. LABELING AND NAMEPLATES
11.01 Permanently label transformers, switchboards, panelboards, time switches and safety switches indicating equipment or panels and areas which they serve.
11.02 Lighting and appliance panels shall be labeled as shown on drawings.
11.03 Electrical Contractor shall furnish and install identification for pull or junction boxes furnished by him.
11.04 Identify as to use on face of equipment by means of laminated black and white phenolic label with 3/8" letters engraved through black to white.
11.05 Materials
A. Nameplates: Engraved three-layer laminated plastic, white letters on a black background.

- 11.06 Installation
A. Degrease and clean surfaces to receive nameplates and tape labels.
B. Install nameplates and tape labels parallel to equipment lines.
C. Secure nameplates to equipment fronts using screws, rivets or adhesive.
D. Mark every junction or pull box cover plates with the circuit number(s) of all wires contained therein.
11.07 Wire Identification:
A. Provide wire markers on each conductor at terminal strips and at final line and load connections.
B. All wires shall be color coded.
1. Three Phase System:
Phase A 120/208V Black
Phase B Red
Phase C Blue
Neutral White
Ground Green
2. Switched Wires: Other than colors listed above
3. Travelers Between 3-Way Switches: Purple
4. Isolated Ground: Green with Yellow Stripes
12. GUARANTEE
12.01 In addition to guarantees of equipment by manufacturer of same, this Contractor shall also guarantee equipment provided by him and shall be held for a period of one (1) year to make good any defects in material and workmanship occurring during this period, at his sole expense.
13. SCOPE OF WORK
13.01 Furnish all labor and material necessary to complete the electrical work shown on the drawings, specified herein or required to complete the construction of the building as shown.
13.02 The listing herein of article or material, operation or method, required to be provided and installed by the Contractor (unless noted to be supplied by others) shall be of quality or subject to qualifications as noted.
13.03 The electrical Contractor shall schedule his work to conform to the progress of the other trades and Contractors employed on this project.
13.04 The electrical work shall include but is not limited to the following:
A. Complete power and lighting distribution systems including panels, as shown on plans.
B. Complete branch circuit wiring system.
C. Temporary electric service as required for construction.
D. Testing of all electrical equipment.
14. MANDATORY SHOP DRAWINGS
14.01 Submit a minimum of five (5) copies of all required electrical shop drawings.
14.02 Shop Drawings shall be submitted for:
Switchgear and surge suppressors
All Lighting Fixtures
All Wiring Devices
END OF SECTION 16010

SECTION 16100 – BASIC MATERIALS AND METHODS

- 1. CONDUIT
1.01 All wire shall be run in accordance with the applicable codes in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (E.M.T.), unless otherwise specifically stated herein.
A. Conduit below first floor slab, exposed to weather, or underground shall be rigid, threaded, galvanized, heavy wall type.
B. Carlon PVC, Type 40 heavy wall conduit with ground wire may be used underground below floor slab or pavement in lieu of rigid, threaded, galvanized conduit.
C. A ground conductor shall be supplied in all conduits and raceways.
D. PVC conduit run beneath areas subject to heavy vehicular traffic such as commercial parking areas, drive through, etc. shall be concrete encased.
E. PVC conduit used between lighting standards shall be Carlon Type 40 min. and comply with NEMA TC-2, TC-3, and UL-651 (Standard).
1.02 Conduit and E.M.T. shall be delivered to the building in 10-foot lengths and each length shall have the Underwriter's Laboratories label.
1.03 Conduit and E.M.T. shall be run concealed in all finished areas of the building.
1.04 E.M.T. connectors and couplers shall be set screw type made of die cast as manufactured by Thomas & Betts, Steel City, or Appleton.
1.05 Conduit shall be securely fastened in place at no more than 8-foot centers, and hangers, supports or fastenings shall be provided at each conduit, elbow and at the end of each straight run, terminating at a box or cabinet.
1.06 Horizontal and vertical conduit runs shall be supported by one-hole malleable straps or other approved metal device with suitable bolts, expansion shield or beam clamp for mounting to building structure or special brackets.
1.07 Armored cable (BX) or nonmetallic sheathed cable (Romex) shall not be used.
1.08 No aluminum conduit shall be used.

- 1.09 Only short runs of flexible metal conduit not over 6' in length and having a ground conductor, shall be used for terminal connections to motors and also for electrical equipment where it is not practical to make final connection with rigid conduit.
1.10 Exposed conduit and conduit in ceiling space shall be run parallel to the building structure.
1.11 Conduit system shall conform to all the requirements of the National Electrical Code (N.E.C./N.F.P.A.-70) and local codes.
1.12 Metal Clad (MC) cable may be used where allowed by these drawings and conform to notes shown on sheet E0.0.
2. CONDUCTORS
2.01 Sizes of conductors for feeders are given on the drawings and no wire smaller than #12 gauge shall be used for branch lighting or power circuits.
2.02 All wire and cable for branch lighting or small power circuits shall have "NEC" Type "THHN/THWN" 600-volt insulation.
2.03 Wire and cable #10 gauge and above shall be stranded Type "THWN" insulated for 600-volts.
2.04 For special conditions, as provided by the National Electrical Code, Type "R.H.H., A.V.A." or other required insulation shall be used.
2.05 Where lighting fixtures are used as raceways, 90 degree C. minimum insulated wire shall be used.
3. GROUNDING
3.01 This Contractor shall provide, install and connect a complete system of grounding for all equipment and structures.
3.02 Electrical system and equipment grounds shall comply with the N.E.C. as well as all local and state codes and regulations.
3.03 Panels, conduit systems, motor frames, lighting fixtures and other equipment that are part of this installation shall be securely grounded both mechanically and electrically in accordance with all codes.
3.04 System ground shall not exceed a maximum of ten (10) OHMS resistance.
3.05 A ground conductor shall be supplied in ALL conduit.
4. TOGGLE SWITCHES AND RECEPTACLES
4.01 Color for all general purpose switches and receptacles shall be selected by architect/owner.
4.02 Acceptable device manufacturers are Hubbell, Leviton, or Pass & Seymour.
4.03 Wall Switches:
A. Single poles #1221, double pole #1222 and three (3) way switches #1223 shall be rated 20-ampere, 120/277 volts.
B. Switches shall be mounted 4'-0" above finished floor to centerline.
4.04 Duplex receptacles shall be 20-ampere at 125-volts, see sheet E0.0. Mount at 18" above floor to centerline or as noted on plans.
4.05 Outdoor receptacles shall be weatherproof with spring covers (Leviton #4926 plates).
5. WALL PLATES
5.01 Unless otherwise noted, all plates for wall switches, receptacles and telephone outlets shall be stainless steel.
5.02 All plates shall have full contact with the wall and boxes.
6. OUTLETS
6.01 Locations of outlets are shown approximately on the drawings.
6.02 Outlet boxes for concealed work shall be pressed steel boxes, galvanized and not less than #12 gauge.
6.03 Outlets on the exterior of the building shall be flush weatherproof type.
6.04 All outlets shall be firmly secured in place.
6.05 All outlet locations in floor shall be verified with Owner's Representative before pouring of concrete floor.
7. BRANCH CIRCUIT WIRING
7.01 The Electrical Contractor shall provide and connect a complete system of panels, conduits, wire fittings, boxes, supports and all other miscellaneous materials required for equipment as indicated on the plans and ready for operation by the Owner.
7.02 All circuits shall be color coded.
END OF SECTION 16100

SECTION 16400 – ELECTRICAL SERVICE AND DISTRIBUTION

- 1. SECONDARY SERVICE
1.01 Electrical service shall be as shown on plans.
1.02 Electrical Contractor shall provide feeders from the existing service equipment to main panel in Shop as indicated on drawings.
1.03 Site electrical shall be coordinated with Owner by Electrical Contractor.
1.04 Provide coordination, via the General Contractor, for the final locations, penetrations, and service tie-ins associated with service conduits.
2. SAFETY SWITCHES
2.01 General
A. Switch shall be type as indicated on plans, with visible, quick make, quick break blades.
2.02 Enclosures
A. Steel enclosures with operating handle at side.
B. The enclosure shall be interlocked with the switch handle such that the enclosure door cannot be opened with switch in the "on" position.

- 2.03 Ratings
A. Safety switches shall be rated for the continuous current and voltage indicated on the drawings.
B. Switches used as service entrance equipment shall be U.L. listed for use as service equipment.
2.04 Poles
A. Safety switches shall have the number of poles indicated on the drawings, but not fewer than one (1) pole for each ungrounded conductor to be opened.
2.05 Fuses
A. Where indicated, safety switches shall be fused in each ungrounded leg in accordance with the requirements of the Section entitled "Fuses".
2.06 Acceptable
A. Acceptable manufacturers are General Electric, Eaton, Square 'D', or Siemens.
3. DISTRIBUTION PANELBOARDS (INCLUDING POWER PANELS)
3.01 Power and distribution panels shall be suitable for voltages indicated on plans and/or riser diagrams.
3.02 Panels shall be provided with spares and full provisions for future breakers as shown.
3.03 Panels shall be manufactured as a complete unit by Siemens, Square 'D', General Electric Company, or Eaton, not an assembly of parts secured from a supply house.
3.04 Panelboards and switches shall be identified for "usage".
4. LIGHTING AND APPLIANCE PANELBOARDS
4.01 Lighting panels shall be dead front type, aluminum buss, with lugs only in the mains and branch circuits as indicated on the drawings.
4.02 Electrical Contractor shall arrange circuits as near as possible to circuit numbers on the drawings.
4.03 Panels shall be enclosed in galvanized steel of code thickness.
5. GENERAL (FOR ALL PANELS AND PANELBOARDS)
5.01 Metal framed card holders with typewritten circuit directory must be provided for each panel.
5.02 All panels, safety switches, starters and in general, all equipment requiring lugs shall be equipped with solderless type U.L. approved lugs.
5.03 Provide all necessary unistrut, channel, backing and supports to mount switchboard and panelboards securely in place.
6. FUSES
6.01 This Contractor shall replace all fuses blown during construction and testing and shall provide a complete set of fuses in all fuse holders, switches, panels and all other devices requiring fuses.
6.02 Fuses shall be as specified herein and indicated on drawings.
END OF SECTION 16400

SECTION 16500 – LIGHTING

- 1. LIGHTING FIXTURES
1.01 All fixtures shall be as shown on Fixture Schedules, and approved by owner.
1.02 Unless otherwise indicated, all lighting fixtures shall be furnished and installed by Electrical Contractor as indicated on the Lighting Fixture Schedules, including lamps.
1.03 All fixtures shall bear the Underwriter's Laboratories label and shall be installed according to manufacturer's instruction.
1.04 All fixtures, unless otherwise indicated, shall be new and undamaged.
1.05 Surface-mounted fluorescent fixtures shall be mounted 1-1/2" from ceiling.
1.06 This Contractor shall provide and install all necessary support media for all lighting fixtures including structural steel, angles, rods, etc.
1.07 This Contractor shall support all fixtures from building structural members and NOT from ceiling system.
END OF SECTION 16500



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TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEHAYEB, P.E.
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Table with 4 columns: no., date, revision descriptions, no.

STARBUCKS SHELL CONSTRUCTION
BAYSIDE LAKES BLVD
PALM BAY, FL

12.02.2022
date
22032
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ELECTRICAL SPECIFICATIONS

E4.0

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