

VCAB - 03/26/2024 12:22:34 PM

EROSION CONTROL NOTES

ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL COMPLETION OF CONSTRUCTION.

- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM WITH LOCAL CITY/COUNTY AND WATER MANAGEMENT DISTRICT SPECIFICATIONS, SUBJECT TO AUTHORIZED AND APPROVED VARIANCES, WAIVERS AND/OR CONDITIONAL CHANGES.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
- ALL AREAS AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PROVIDE TREE PROTECTION BARRIERS TO MEET THE REQUIREMENTS OF LOCAL SPECIFICATIONS.
- THE CONTRACTOR SHALL SELECTIVELY CLEAR ONLY THE AREAS REQUIRED FOR CONSTRUCTION AND STABILIZE ANY POTENTIAL EROSION AREAS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL KEEP ANY AND ALL SAND, SILT OR OTHER DEBRIS FROM MOVING OFF-SITE. USE AND MAINTAIN SILT FENCE JUST INSIDE OF PROPERTY LINE.
- CONTRACTOR SHALL BLOCK INTRUSION OF SAND, SILT OR OTHER DEBRIS INTO ANY DRAINAGE OR SANITARY SEWER STRUCTURE OR PIPING ON OR ADJACENT TO SITE.
- ALL CLEARED AREAS FOR IMPROVEMENT AND/OR CONSTRUCTION SHALL BE WATERED TO PREVENT WIND EROSION.
- FOR ADDITIONAL INFORMATION AND DETAILS, **SEE F.D.O.T. INDEX NO. 104.**
- UNLESS SPECIFIED, SILT FENCES MAY BE USED IN LIEU OF HAY BARRIERS.
- ADDITIONAL POSTS AND RAILS MAY BE NECESSARY TO SECURE AND SUPPORT BARRIERS.
- ADDITIONAL BARRIER LENGTHS MAY BE REQUIRED BY THE COUNTY ENGINEER OR BY REGULATORY AGENCIES.
- FILTER FABRIC MUST BE INSTALLED UNDER ALL INLET GRATES, AT ALL TIMES WHEN INLETS ARE NOT PROTECTED BY SILT FENCE OR HAY BALES, UNTIL THE LIMEROCK BASE IS FINISHED AND PRIMED.
- THE CONTRACTOR IS REQUIRED TO HAVE THE EROSION CONTROL PLAN POSTED IN A VISIBLE LOCATION ON THE CONSTRUCTION SITE AT ALL TIMES.
- NON STORMWATER DISCHARGES SUCH AS FIRE HYDRANT FLUSHING, ETC SHALL BE DISCHARGED TO EXISTING UNDERGROUND STORMWATER FACILITY.
- ANY POTENTIALLY HAZARDOUS CHEMICALS BROUGHT ONTO THE JOB SITE WILL BE LIMITED AND KEPT IN ORIGINAL CONTAINER WITH MSDS LABEL.
- NO SILT SHALL BE TRACKED ONTO PUBLIC ROADWAYS. ANY SILT DEPOSITED ON PUBLIC ROADWAYS SHALL BE REMOVED BY THE END OF THE WORK DAY.

DEMOLITION NOTES

- PRIOR TO COMMENCEMENT OF DEMOLITION THE CONTRACTOR WILL COORDINATE HIS ACTIVITIES WITH ALL THE UTILITY COMPANIES SERVING THIS AREA. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- THE CONTRACTOR IS TO COMPLETELY REMOVE AND DISPOSE OF ALL STRUCTURES AND BUILDINGS THAT IS SO INDICATED INCLUDING FOUNDATIONS, TIMBER AND BRUSH, EXCEPT AS OTHERWISE INDICATED; STUMPS AND ROOTS; EXISTING PAVEMENT; OTHER STRUCTURES AS SHOWN OR REASONABLY IMPLIED IN THE DRAWINGS.
- EXCEPT IN AREAS WHERE EXISTING TREES SHALL BE PRESERVED, A MINIMUM DEPTH OF REMOVAL SHALL BE (2) FOOT BELOW SUBGRADE IN ROADWAY AREAS AND TO ORIGINAL SOILS ELSEWHERE. WHERE EXISTING BUILDINGS ARE TO BE DEMOLISHED, ALL TRACES OF FOUNDATIONS AND UNDERGROUND UTILITIES ARE TO BE REMOVED (UNLESS OTHERWISE NOTED ON PLANS). THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL WASTE MATERIAL.
- WHERE PAVING OR STRUCTURES ARE TO BE REMOVED WHICH ABUT OR ARE A PART OF CONNECTED FACILITIES (THAT ARE OFF-SITE), RESTORATION OF ANY DAMAGE THAT MIGHT RESULT FROM DEMOLITION IS TO BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- THE LOCATION OF ALL EXISTING UTILITIES, STORM DRAINAGE AND TREES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER OR ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF DEMOLITION THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXISTANCE & LOCATION OF ALL STRUCTURES, UTILITIES & TREES SHOWN OR NOT ON THE PLANS, WHICH WOULD NEED TO BE REMOVED OR PRESERVED.
- THE CONTRACTOR IS TO COORDINATE THE RELOCATION OR REMOVAL OF ALL OVERHEAD/UNDERGROUND UTILITIES, UTILITY POLES, LIGHTS AND LINES IN THE RIGHT-OF-WAY AND ON THE PROPERTY WITH THE APPROPRIATE SERVICE PROVIDER.
- THE CONTRACTOR SHALL REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS DISTURBED DURING CONSTRUCTION. (UNDER THE DIRECTION OF A FLORIDA REGISTERED LAND SURVEYOR).

UTILITY SEPARATION NOTES

- HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
 - NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
 - NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
 - NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
 - NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.006(5)(2), F.S., AND RULE 64E-6.002, F.A.C.
- VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
 - NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
 - SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.
 - NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.
 - EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE.
 - SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
 - NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.006(5)(2), F.S., AND RULE 64E-6.002, F.A.C.

UTILITY NOTES

PRIOR TO COMMENCING ANY CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES, INCLUDING WITHOUT LIMITATION POTABLE WATER, RECLAIMED WATER, SANITARY SEWER, AND SERVICE UTILITIES, AT POINTS OF CONNECTION, POINTS OF CROSSING, AND/OR POTENTIAL CONFLICT. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS.

A. GENERAL

- THE LOCATIONS OF EXISTING UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ETC., SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER ASSUME NO LIABILITY FOR ACCURACY AND COMPLETENESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND TO HAVE THEIR FACILITIES LOCATED IN THE FIELD PRIOR TO ANY WORK.
- DUE TO GRAPHIC LIMITATIONS OF THE DRAWING SCALE, ALL STORM SEWER, DRAINAGE, WATER AND SANITARY SEWER MAINS, SERVICES, LATERALS, CONNECTIONS, AND APPURTENANCES DEPICTED HEREIN – UNLESS OTHERWISE LOCATED BY DIMENSIONS – REFLECT SCHEMATIC LOCATIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL LOCATIONS IN ACTUAL CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, INCLUDING ANY REQUISITE COORDINATION WITH THE RESPECTIVE GOVERNING AGENCY/UTILITY PROVIDER.
- ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE **CITY OF TAVARES UTILITY DEPARTMENT**, AND WILL BE SUBJECT TO THEIR INSPECTION AND ACCEPTANCE.
- CONTRACTOR SHALL INSPECT PIPING AND MATERIALS BEFORE INSTALLATION TO DETECT APPARENT DEFECTS. MARK DEFECTIVE MATERIALS WITH WHITE PAINT AND PROMPTLY REMOVE FROM SITE.
- LAY SEWER PIPING BEGINNING AT LOW POINT OF SYSTEM (CONNECTION TO OFF SITE SYSTEM OR PUMP STATION), TRUE TO GRADES AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERTS. PLACE BELL ENDS OR GROOVE ENDS OF PIPING FACING UPSTREAM.
- CLEAR INTERIOR OF PIPE OF DIRT AND OTHER SUPERFLUOUS MATERIAL AS WORK PROGRESSES. MAINTAIN SWAB OR DRAG IN LINE AND PULL PAST EACH JOINT AS IT IS COMPLETED. PLACE PLUGS IN ENDS OF UNCOMPLETED CONDUIT WHENEVER WORK STOPS.
- MAINTAIN **36"** COVER OVER MAINS, AND **30"** OVER SERVICES/LATERALS.
- WHEN PROPOSED CONSTRUCTION OCCURS AT EXISTING MANHOLES, INLETS, VAULTS, AND OTHER STRUCTURES, THE CONTRACTOR SHALL MODIFY THE STRUCTURES, FRAMES, AND GRATES TO MEET THE PROPOSED GRADES UNLESS OTHERWISE DIRECTED.
- INSTALL CONTINUOUS LOCATOR TAPE/WIRE, LOCATED DIRECTLY OVER POTABLE WATER MAINS AND SANITARY SEWER MAINS AT 6" TO 8" ABOVE PIPE.
- WHERE APPLICABLE, UTILITY TRENCHES CROSSING PAVEMENT AREAS SHALL BE BACK FILLED WITH COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH A.A.S.H.T.O.-T-99.
- CONTRACTOR SHALL PROVIDE SLEEVES FOR IRRIGATION LINES UNDER PAVEMENT. COORDINATE WITH GENERAL CONTRACTOR.
- ALL TRENCHES EXCAVATED FOR THE PURPOSES OF UTILITY/STORM INSTALLATION SHALL BE KEPT DRY FOR THE DURATION OF UTILITY/STORM CONSTRUCTION. DEWATERING OF UTILITY/STORM TRENCHES MAY BE REQUIRED TO PREVENT FLOTATION OF UTILITY/STORM PIPES DURING INSTALLATION.

13. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN CONSTRUCTION IS COMPLETE FOR WATER, WASTEWATER AND STORMWATER SYSTEMS SO TIMELY CERTIFICATIONS MAY BE INITIATED. SATISFACTORY BACTERIOLOGICAL TEST RESULTS, PRESSURE TEST RESULTS, AND AN AS-BUILT SURVEY SHALL BE SUBMITTED TO ENGINEER PRIOR TO FINAL CERTIFICATION.

- SUITABLE COUPLINGS COMPLYING WITH ASTM SPECIFICATIONS ARE REQUIRED FOR JOINING DISSIMILAR MATERIALS.
- DEFLECTION TESTS ARE REQUIRED FOR ALL FLEXIBLE PIPE. TESTING REQUIREMENTS: 1) NO PIPE SHALL EXCEED A DEFLECTION OF 5%; 2) USING A RIGID BALL OR MANDREL FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THEN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE; 3) PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES.

B. MATERIALS (WATER)

- SERVICE PIPE SHALL BE POLYETHYLENE (PE), DR9.
- WATER MAINS SHALL BE PVC ASTM C900, DR 18 WITH INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM C3139 AND GASKETS PER ASTM F477.
- DUCTILE IRON PIPE (D.I.P.), IF REQUIRED, SHALL CONFORM TO ANSI/AWWA A21.51/C151, CLASS 50 (MIN.) PIPE FOR ALL SIZES.
- CORPORATION STOPS SHALL BE 1 1/2" BRASS, EQUIPPED WITH CONNECTIONS COMPATIBLE WITH SERVICE PIPE AND THREADED IN ACCORDANCE WITH SPECIFICATIONS IN AWWA C800. CURB STOPS SHALL BE SIZED TO MATCH THE METER SIZE AND CONFORM WITH AWWA C800 AND AWWA C901.
- FITTINGS SHALL BE BRASS, CAST AND MACHINED IN ACCORDANCE WITH AWWA C800 AND AWWA C901, WITH COMPATIBLE PIPE CONNECTIONS.
- SERVICE SADDLES SHALL BE USED FOR ALL SERVICE LINE TAPS. SERVICE SADDLES SHALL BE DOUBLE STRAP, ANCHORED BY A MINIMUM FOUR (4) BOLT PATTERN ON A DUCTILE IRON SADDLE BODY. FOR PVC PIPE, DOUBLE STRAPS SHALL BE CORROSION RESISTANT ALLOY STEEL, SIZED EXACTLY TO THE PIPE OUTSIDE DIAMETER. SEALING GASKETS SHALL BE BUNA-N RUBBER.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED USING BLUE AS A PREDOMINANT COLOR.

C. MATERIALS (SEWER)

- ALL GRAVITY SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE PIPE (PVC) CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.
- ALL FITTINGS AND ACCESSORIES SHALL BE MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR PRIOR-APPROVED EQUAL.
- BEDDING AND INITIAL BACK FILL OVER SEWER MAINS AND SERVICES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER.

D. MATERIALS (STORM)

- REINFORCED CONCRETE PIPE (RCP); O-RING PIPE SHALL CONFORM TO ASTM C 76 (CLASS III, UNLESS OTHERWISE SPECIFIED) AND AASHTO M 178 STANDARD SPECIFICATIONS, AND ASTM C 443 STANDARD SPECIFICATION FOR JOINTS FOR RCP USING RUBBER GASKETS.
- ELLIPTICAL RCP SHALL CONFORM TO ASTM C 507 (CLASS III) AND AASHTO M 207 STANDARD SPECIFICATIONS.
- HDPE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M-25 (3"-10"), M-294 (12" AND LARGER), TYPE S (CORRUGATED OUTSIDE – SMOOTH INSIDE, 4"-60"), AND MP7 (60" TYPE S).
 - BELL/SPIGOT GASKET FOR HDPE PIPE SHALL BE SOIL/SILT TIGHT PER AASHTO SECTION 26 WITH RUBBER GASKET MEETING ASTM F-477.
- PVC STORM SEWER PIPE (12" OR LESS) AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE PIPE (PVC) CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.

GENERAL NOTES

- A. GENERAL
 - INFRASTRUCTURE AND IMPROVEMENTS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE LOCAL JURISDICTION AND WILL BE SUBJECT TO THEIR INSPECTION AND ACCEPTANCE.
- SITE LOCATION: **STATE ROAD 19, TAVARES, FL, 32778**
- THIS SITE LIES IN **FLOOD ZONE X, F.I.R.M. PANEL 12869C 0345E, DATED 12/18/2012.**
- BOUNDARY, TOPOGRAPHIC, AND TREE SURVEY BY **ACCURIGHT SURVEYS OF ORLANDO INC., 2012 E. ROBINSON ST., ORLANDO, FL**
- BENCHMARK – REFER TO TOPOGRAPHIC SURVEY BY **ACCURIGHT SURVEYS OF ORLANDO INC.**
- LEGAL DESCRIPTION SHOWN HEREIN IS FURNISHED BY SURVEYOR, AND IS INCLUDED FOR PERMITTING AND APPROVAL PURPOSES, AND AS A COURTESY FOR THE CONTRACTOR. INTERPLAN LLC. ASSUMES NO LIABILITY FOR ITS ACCURACY OR COMPLETENESS.
- SITE GEOTECHNICAL INVESTIGATION PERFORMED BY **UNIVERSAL ENGINEERING SCIENCES**. INTERPLAN LLC. ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS, ACCURACY AND COMPLETENESS OF THEIR WORK. **THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL ENGINEER'S REPORT FOR THIS SITE AND COMPLY WITH RECOMMENDATIONS CONTAINED THEREIN.** IF ADDITIONAL SERVICES ARE REQUIRED, THE CONTRACTOR SHALL MAKE A REQUEST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE AND INSTALL EROSION CONTROL DEVICES (SILT FENCE OR OTHER METHODS) AT LIMITS OF CONSTRUCTION AND AROUND EACH STORM INLET PRIOR TO CONSTRUCTION, AND SHALL MAINTAIN SAID EROSION CONTROL DEVICES DURING CONSTRUCTION, ALL IN CONFORMANCE WITH CURRENT LOCAL, COUNTY AND STATE CRITERIA.
- THE SITE SHALL BE CLEARED AS MAY BE NOTED ON THE PLANS, OF ALL OBSTRUCTIONS AND DELETERIOUS MATERIAL SUCH AS FENCES, WALLS, FOUNDATIONS, LOGS, SHRUBS, BRUSH, WEEDS, OTHER VEGETATION, AND ACCUMULATION OF RUBBISH OF WHATEVER NATURE. OFF-SITE DISPOSAL, INCLUDING ANY HAZARDOUS MATERIAL ENCOUNTERED, SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY INTERPLAN LLC. OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL REMAIN SOLELY RESPONSIBLE FOR ANY DESIGN CHANGES WHICH HE MAY INCORPORATE INTO THE PLANS WITHOUT PRIOR WRITTEN CONSENT AND/OR APPROVAL FROM THE OWNER AND THE ENGINEER.**
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN EACH EXISTING RIGHT OF WAY WITH THE CITY OF **TAVARES** AND THE FLORIDA DEPARTMENT OF TRANSPORTATION.
- SCS SOILS: **CANDLER SAND, 0 TO 5 PERCENT SLOPES**
- STORMWATER MANAGEMENT IS PROVIDED BY **MASTER STORM WATER SYSTEM.**
- THE CONTRACTOR SHALL RESTORE OFF-SITE AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE SODDED.
- AT LEAST **30 DAYS** PRIOR TO ANTICIPATED COMPLETION OF SITE CONSTRUCTION, THE FINAL CERTIFICATION PROCESS WILL BEGIN. THE CONTRACTOR SHALL PROVIDE DOCUMENTS AND INFORMATION, IN A TIMELY MANNER, TO ENGINEER, INCLUDING, WITHOUT LIMITATION:
 - SURVEYED "AS-BUILTS" PER AS-BUILT SURVEY SCOPE IN SPEC MANUAL.
 - COMPACTION AND DENSITY TEST REPORTS, AND
 - PRESSURE TESTING AND BACTERIOLOGICAL TESTING RESULTS, AS REQUIRED, FOR WATER DISTRIBUTION AND/OR WASTEWATER COLLECTION/TRANSMISSION SYSTEMS.

THE CONTRACTOR SHALL HAVE TWO (2) SETS OF AS-BUILT PLANS, SIGNED AND SEALED BY SURVEYOR OF RECORD, ON SITE THE DAY OF THE CIVIL ENGINEERING FINAL PUNCH LIST INSPECTION. THE GENERAL CONTRACTOR IS TO GIVE THE TWO AS-BUILT PLANS TO THE REPRESENTATIVE FROM INTERPLAN COMPLETING THE INSPECTION. IF ANY DEFICIENCIES ARE NOTED, ONE SET OF RED-LINED AS-BUILT PLANS WILL BE GIVEN TO THE GC FOR REVISIONS TO BE MADE. REVISED AS-BUILTS WILL NEED TO BE FORWARDED TO INTERPLAN BEFORE ANY CERTIFICATIONS CAN BE INITIATED.

ALL TRAFFIC CONTROL DEVICES, EQUIPMENT AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE LOCAL JURISDICTION AND/OR FLORIDA DEPARTMENT OF TRANSPORTATION.

PARKING STALLS SHALL CONFORM WITH LOCAL CODE. ACCESSIBLE PARKING SPACES AND ACCESS ROUTES SHALL FURTHER CONFORM WITH CURRENT ADA REQUIREMENTS.

HANDICAP PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM WITH CURRENT ADA REQUIREMENTS AND LOCAL ORDINANCE.

LANDSCAPE SHALL BE TRIMMED TO ENSURE SIGHT VISIBILITY OF TRAFFIC CONTROL DEVICES.

ALL PAVEMENT IS DIMENSIONED TO FACE OF CURB.

ALL BUILDING DIMENSIONS AND TIES ARE TO OUTSIDE FACE. SEE ARCHITECTURAL PLANS.

ALL CURB RETURN RADII ARE 5' UNLESS NOTED.

BUILDING AND SITE IMPROVEMENTS ARE PARALLEL AND PERPENDICULAR TO NORTH PROPERTY LINE.

SITE DATA

SITE AREA	44,891 SF	1.03 AC	ARY9238 CA 8660
EXISTING			
IMPERVIOUS { PAVEMENT/SIDEWALKS } BUILDING	532 SF 0 SF	1% 0%	1%
TOTAL IMPERVIOUS OPEN SPACE (GREEN)	532 SF 44,410 SF	99%	
PROPOSED			
IMPERVIOUS { PAVEMENT/SIDEWALKS } BUILDING	26,045 SF 2,500 SF	58% 6%	63%
TOTAL IMPERVIOUS OPEN SPACE (GREEN)	26,545 SF 16,397 SF	37%	
ZONING	P.U.D. (PLANNED UNIT DEVELOPMENT)		
FLOOR AREA RATIO	F.A.R. = 0.056		
BUILDING HEIGHT	MAX. ALLOWED N/A	PROPOSED 22 FT (1 STORY)	
BUILDING SETBACKS	REQUIRED	PROVIDED	
FRONT (SOUTH)	10 FT	90 FT	
REAR (NORTH)	10 FT	71 FT	
SIDE (EAST)	25 FT	87 FT	
SIDE (WEST)	10 FT	78 FT	
LANDSCAPE BUFFER			
FRONT (SOUTH)	7 FT	7 FT	
REAR (NORTH)	N/A	N/A	
SIDE (EAST)	15 FT	16 FT	
SIDE (WEST)	7 FT	14 FT	
PARKING REQUIRED	REQUIRED	PROVIDED	
7 SPACES PER 1,000 SF 2,500 SF/1,000 SF=2.5 2.5*7 SPACES=18 SPACES REQUIRED	18 SPACES	30 SPACES	
PARKING PROVIDED			
REGULAR		28	
HANDICAP		2	
TOTAL		30	

LEGENDS

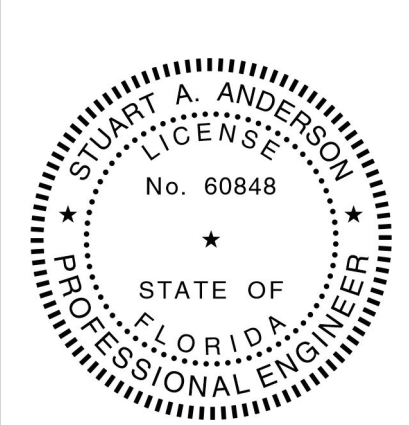
PROPOSED CONTOUR MEET EXISTING GRADE	73.50 MEG
EDGE OF PAVEMENT	EOP
SIDEWALK	SW
GRADE BREAK	GB
HIGH POINT	HP
SPOT ELEVATION	12.55
DIRECTION OF FLOW AND PERCENT SLOPE	1.0%
STORM SEWER & INLET	
YARD DRAIN INLET	
DOWN SPOUT DRAINS	DSD
SANITARY SEWER & MAN-HOLE	SS
GREASE TRAP CLEANOUT	G.T. C.O.
FORCE MAIN	FM
WATER SERVICE	W
WATER MAIN	WM
FIRE HYDRANT	
DDCVA	
FDC	
BACKFLOW PREVENTION DEVICE (BFP)	
GATE VALVE	
REDUCER	
UNDERGROUND TELEPHONE	UGT
UNDERGROUND ELECTRIC	UGE
SITE LIGHTING	
TRANSFORMER	T
AIR CONDITIONING UNIT	AC
PARKING SPACE TOTALS	8
DETAIL NUMBER SHEET NUMBER	2 C4
ZONING	B-3
CURRENT LAND USE	VACANT



ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:



This item has been digitally signed and sealed by Stuart Anderson on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NO DATE REMARKS
REVISIONS



PROJECT NO: 2023.0725
DATE: 2/13/24

C0
GENERAL NOTES

CHECKED: CB DRAWN: KC

1990 STATE ROAD 19
TAVARES, FL 32778

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








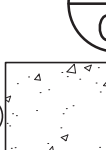


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SITE DIMENSION PLAN

TRAFFIC CONTROL & SIGNAGE

- | | | |
|----|--|----------------|
| 1 | THERMOPLASTIC DIRECTIONAL ARROW (TYP.) | 11 |
| 2 | HANDICAP PAVEMENT SYMBOLS | 9
C4 (TYP.) |
| 3 | HANDICAP SIGN | 13
C4 |
| 4 | 24" WIDE WHITE STOP BAR (TYP.) | |
| 5 | PAVEMENT STRIPING (4" WHITE) (TYP.) | |
| 6 | DO NOT ENTER SIGN (TYP.) | |
| 7 | 24" WIDE WHITE CROSSWALK STRIPING | |
| 8 | 30" STOP SIGN (R1-1) | |
| 9 | MONUMENT SIGNAGE | |
| 10 | 'MOP' SIGN | |
| 11 | THANK YOU/DO NOT ENTER SIGN | |

SITE NOTES

- 1 FLARED HANDICAP RAMP 
- 2 CORNER RAMP 
- 3 HANDICAP END RAMP 
- 4 6" CURB  (TYP.)
- 5 MONOLITHIC CURB AND SIDEWALK 
- 6 CONCRETE SIDEWALK 
- 7 DOUBLE DUMPSTER ENCLOSURE (SEE ARCH. PLANS)
- 8 CONCRETE APRON (INTEGRAL BLACK COLOR) 
- 9 BOLLARD 
- 10 ASPHALT PAVEMENT 
- 11 EXISTING FIRE HYDRANT
- 12 BIKE RACK 
- 13 TRANSFORMER PAD
- 14 MENU BOARD AND SPEAKER POST
- 15 PREVIEW MENU BOARD
- 16 CLEARANCE BAR
- 17 VEHICLE LOOP DETECTOR
- 18 CONCRETE PAVEMENT (INTEGRAL BLACK COLOR) 
- 19 TYPE 'A' CURB AND GUTTER PER FDOT STD. 520.001
- 20 UTILITY SCREEN
- 21 WHEEL STOP 
- 22 PIPE GUIDERAIL PER FDOT STD. 515-070
- 23 ADA ACCESSIBLE SIDEWALK RAMP
- 24 LIGHT POLE (TYP.) 
- 25 OUTDOOR SEATING AREA (SEE ARCH. PLANS)

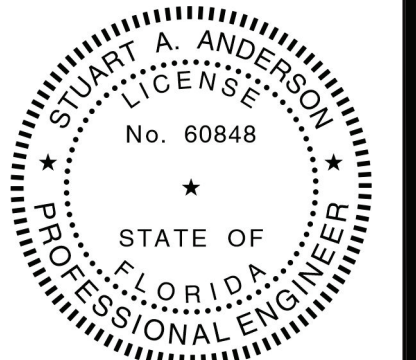
REFER TO SHEET C0 FOR GENERAL NOTES,
SPECIFICATIONS, AND LEGENDS, IN ADDITION
TO SITE-SPECIFIC NOTES AND REQUIREMENTS.



20' 0 20' 40'

GRAPHIC SCALE

SEAL:



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STARBUCKS

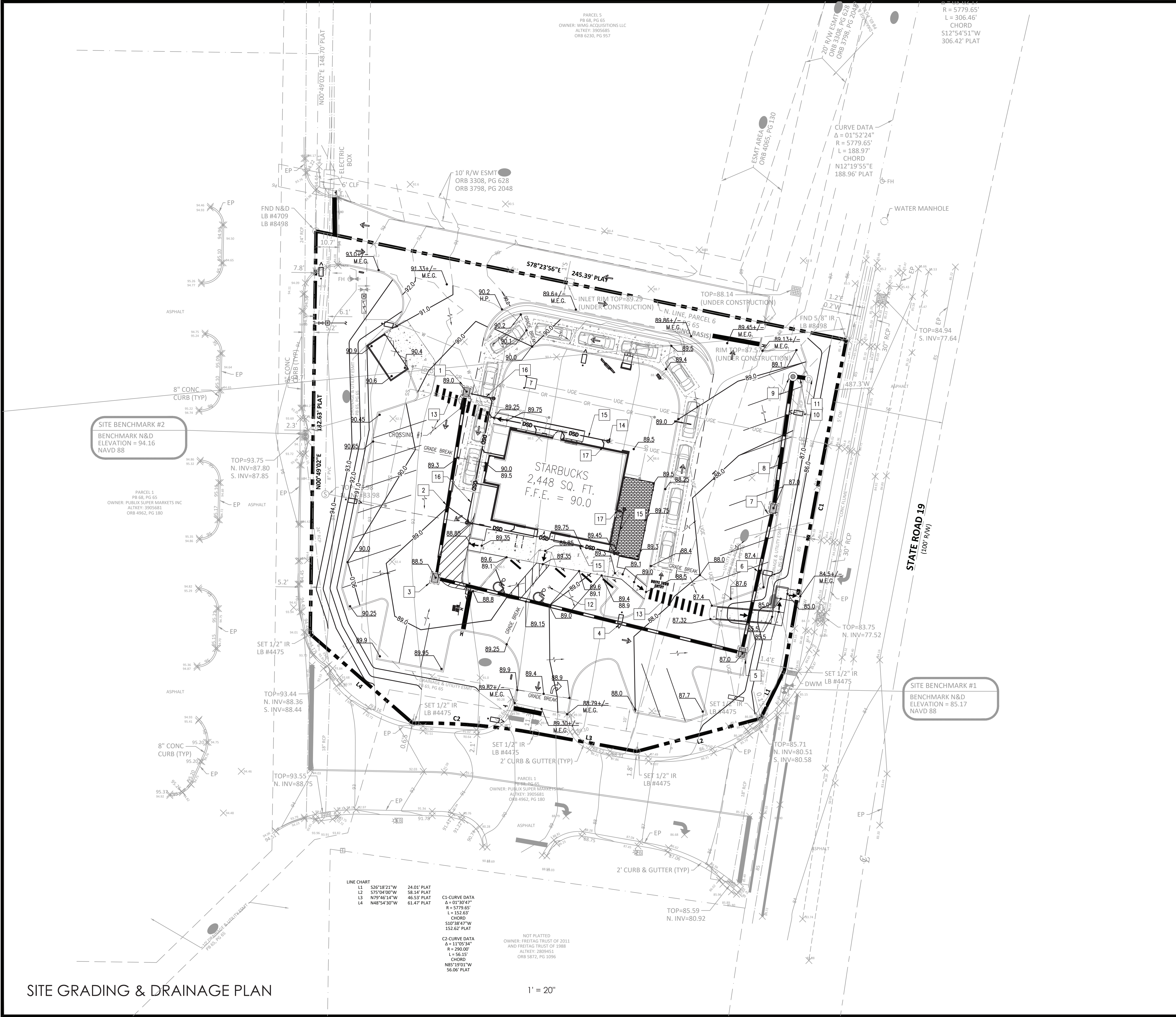
1990 STATE ROAD 19
TAVARES, FL 32778

PROJECT NO: 2023.0725
DATE: 2/13/24

C1

SITE DIMENSION PLAN

CHECKED: CB DRAWN: KC



DRAINAGE STRUCTURE TABLE

1	INLET #1 "TYPE F" STORMWATER INLET GRATE ELEV. = 89.0 INV. ELEV. (S) = 83.13 INV. ELEV. (E) = 83.23
2	80 LF 15" HDPE @ 0.25%
3	INLET #2 "TYPE F" STORMWATER INLET GRATE ELEV. = 88.50 INV. ELEV. (N) = 82.93 INV. ELEV. (E) = 82.83
4	138 LF 15" HDPE @ 0.5%
5	INLET #3 "TYPE F" STORMWATER INLET GRATE ELEV. = 86.2 INV. ELEV. (W) = 82.14 INV. ELEV. (N) = 82.04
6	62 LF 15" HDPE @ 0.5%
7	INLET #4 "TYPE F" STORMWATER INLET GRATE ELEV. = 87.0 INV. ELEV. (N) = 81.63 INV. ELEV. (S) = 81.73
8	56 LF 18" HDPE @ 0.5%
9	STORMWATER MANHOLE #1 GRATE ELEV. = 88.8 +/- INV. ELEV. (E) = 80.54 INV. ELEV. (S) = 81.35
10	4 LF 18" HDPE @ 1.0%
11	EXISTING STORMWATER MANHOLE GRATE ELEV. = 87.57 +/- INV. ELEV. (N) = 79.63 INV. ELEV. (S) = 79.95 INV. ELEV. (W) = 80.50 (NEW-CORE DRILL AND CONNECT)
12	HANDICAP ZONE - MAX. 2.0% SLOPE IN ANY DIRECTION.
13	ACCESSIBLE ROUTE MAX. 2% CROSS SLOPE, 5% IN DIRECTION OF TRAVEL
14	CLEANOUT (TYP.)
15	6" PVC DOWNSPOUT DRAIN @ 1.0% SLOPE MIN.
16	8" PVC DOWNSPOUT DRAIN @ 1.0% SLOPE MIN.
17	CONNECT BUILDING DOWNSPOUT TO UNDERGROUND STORM DRAIN TYP.

NOTE:
CONTRACTOR SHALL FIELD VERIFY LOCATION, INVERT ELEVATION, MATERIALS AND PIPE SIZE BEFORE CONSTRUCTION BEGINS.

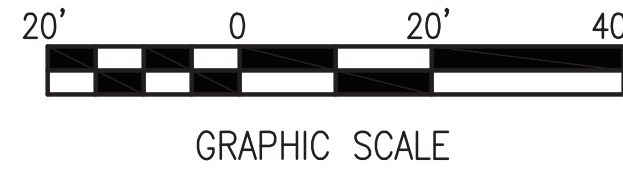
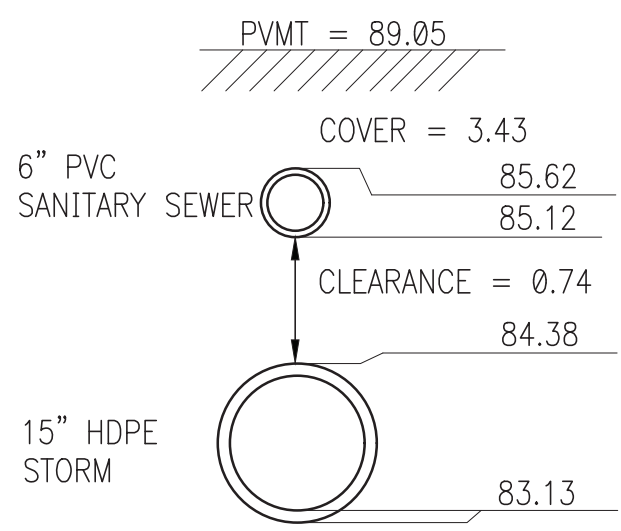
CONTRACTOR SHALL BEGIN STORMWATER PIPING CONSTRUCTION AT THE POINT OF CONNECTION OF EXISTING STORMWATER SYSTEM.

6" BELOW BASE MINIMUM PIPE COVER.

WHEN ANY ROOTS OR EXISTING TREE ARE ENCOUNTERED DURING LAND CLEARING AND/OR GRADING OF THE SITE, THE ROOTS MUST BE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS. THE CONTRACTOR/DEVELOPER SHALL MINIMIZE THE DAMAGE TO EXISTING TREE ROOT SYSTEMS.

REFER TO SHEET C0 FOR GENERAL NOTES, SPECIFICATIONS, AND LEGENDS, IN ADDITION TO SITE-SPECIFIC NOTES AND REQUIREMENTS.

CROSSING #1



SITE GRADING & DRAINAGE PLAN

1" = 20'

INTERPLAN
INTERPLAN LLC

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STUART A. ANDERSON
LICENSED PROFESSIONAL ENGINEER
No. 60848
STATE OF FLORIDA

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NO	DATE	REMARKS
REVISIONS		

STARBUCKS

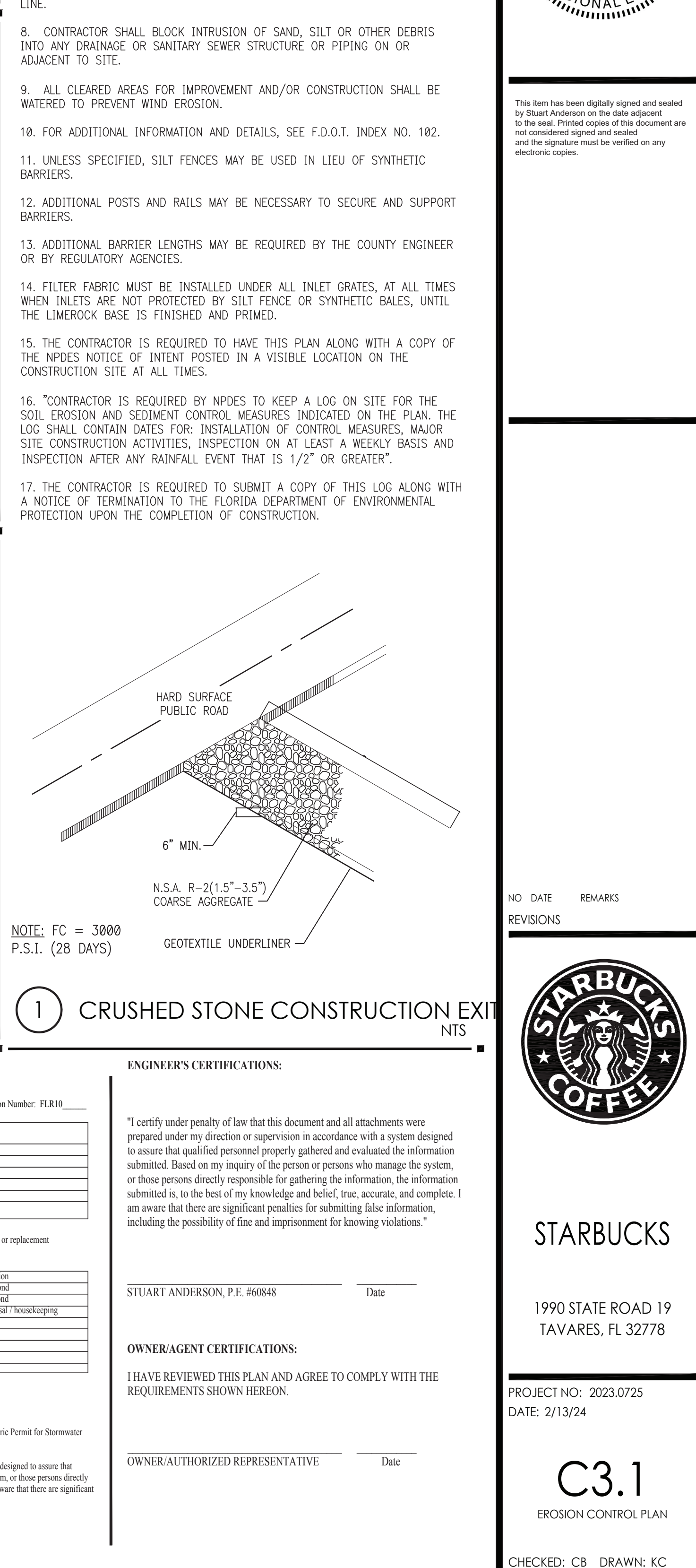
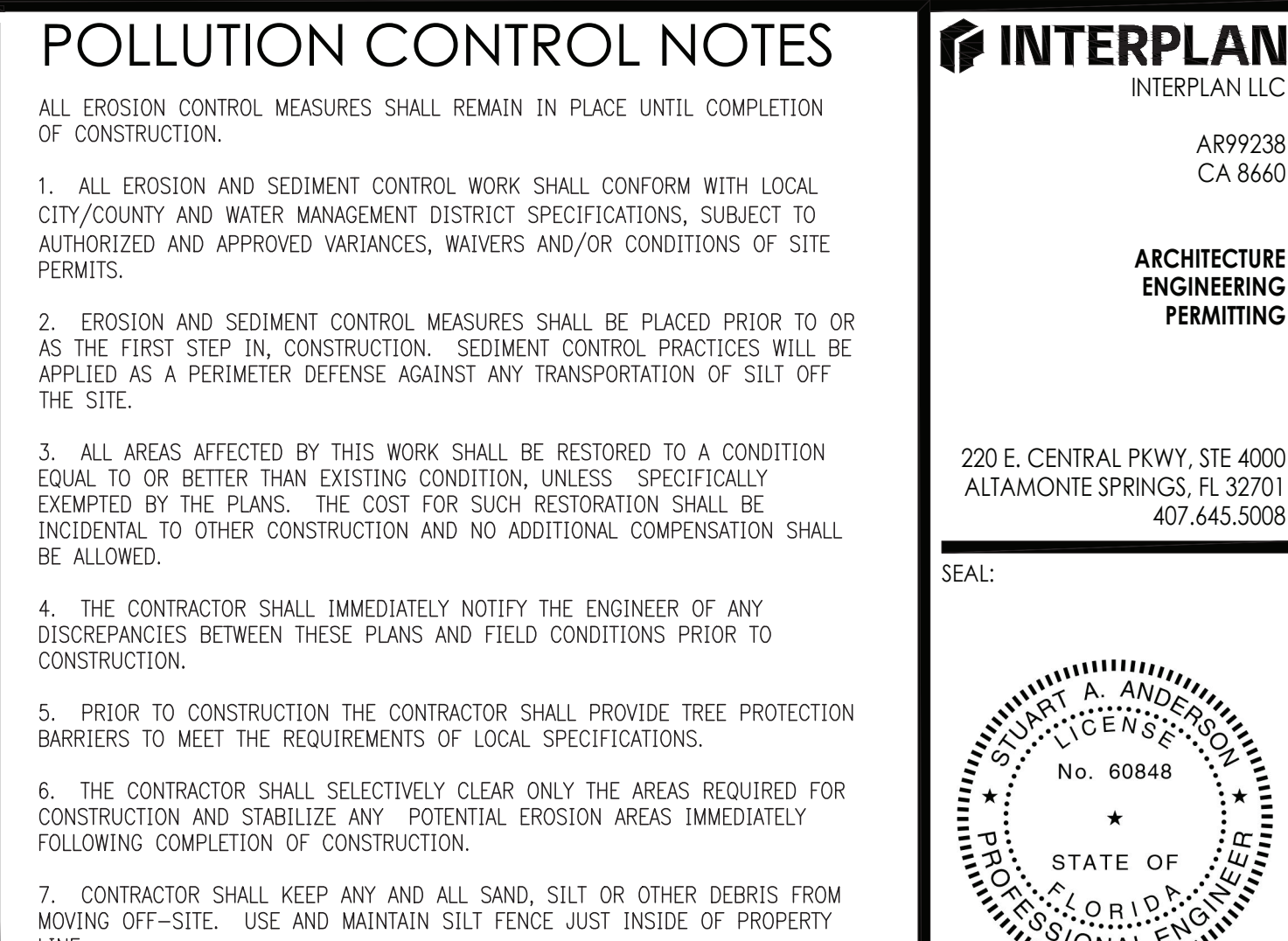
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TAVARES, FL 32778

PROJECT NO: 2023.0725
DATE: 2/13/24

C3
SITE GRADING AND
DRAINAGE PLAN

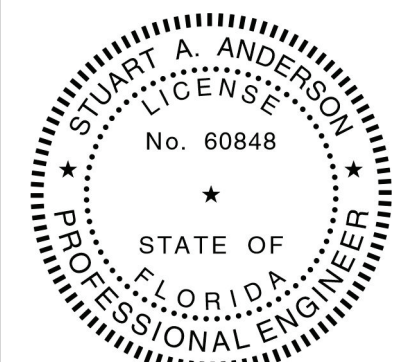
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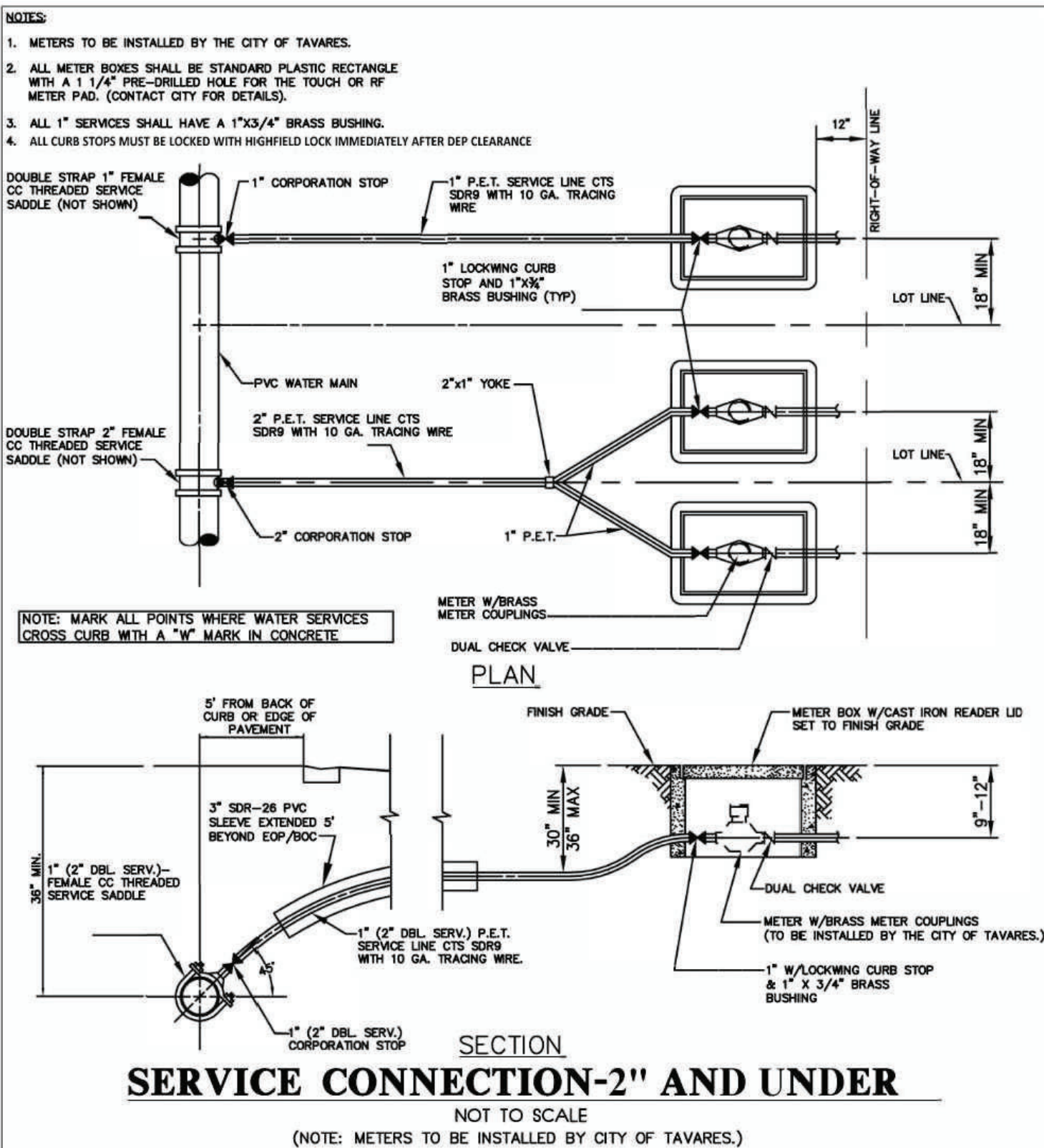



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407.645.5008

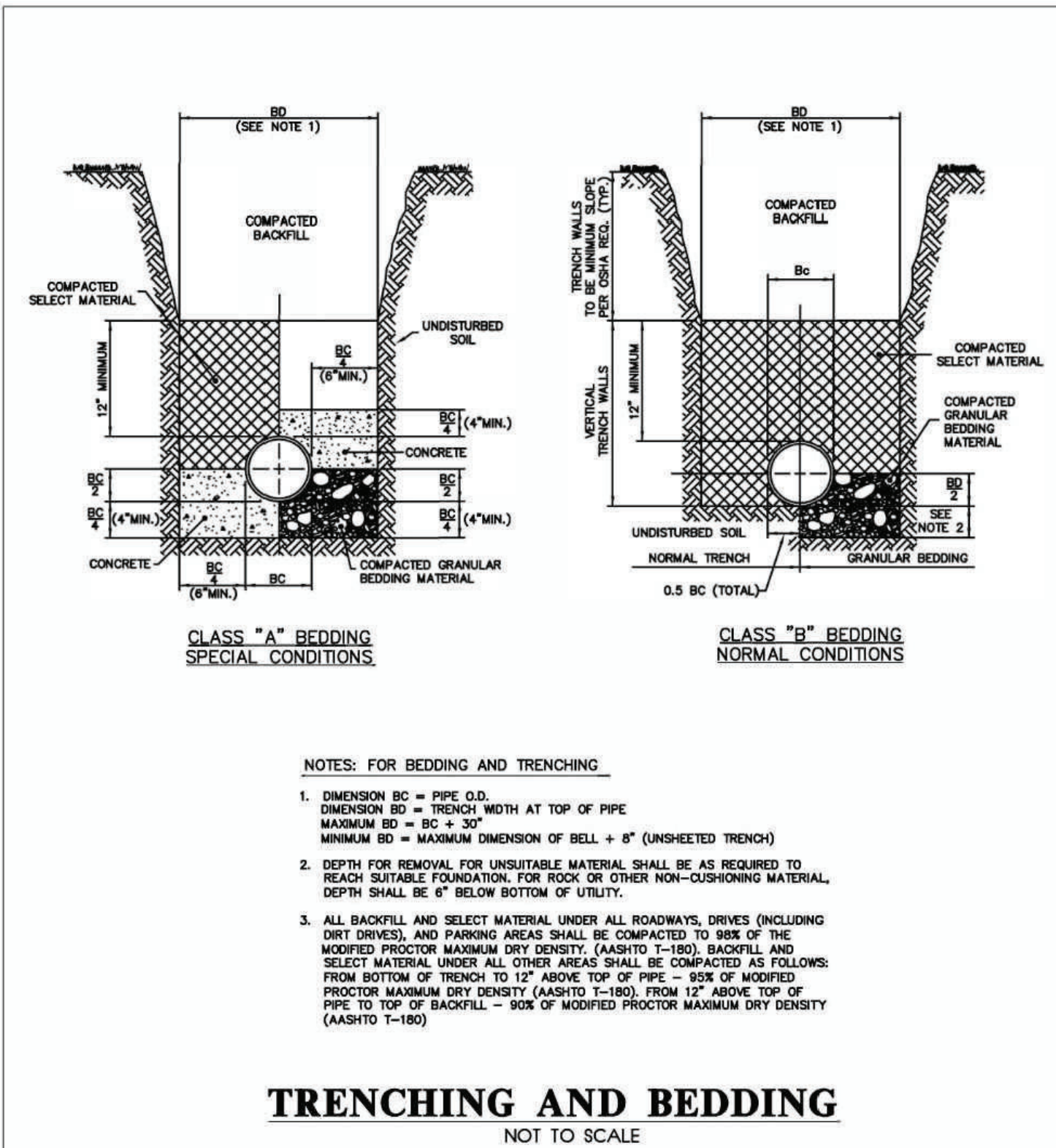
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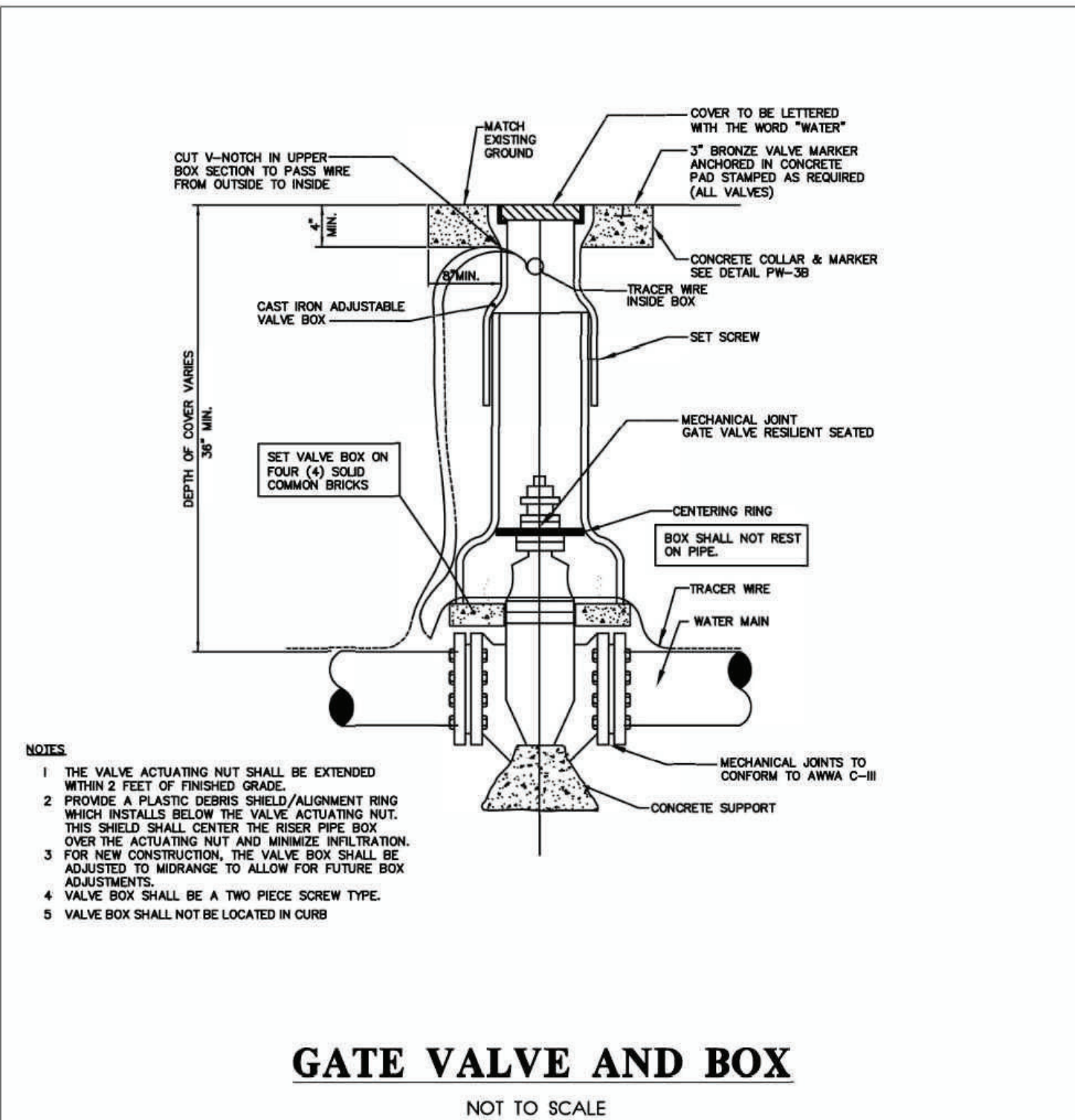
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		DETAIL PW-1



	City of Tavares Standard Details City of Tavares Utility Department 1000 Captain Hayes Road Tavares, FL 32778 Phone (352)742-6485 Fax (352)742-6118	DATE: APRIL 2018
		DETAIL PW-2



	<p align="center">City of Tavares Standard Details</p> <p align="center">City of Tavares Utility Department 1000 Captain Haynes Road Tavares, FL 32778 Phone (352)742-6485 Fax (352)742-6118</p>	DATE: Oct. 2022
		DETAIL PW-3A

GENERAL WATER NOTES

1. WATER SYSTEM COMPONENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS, CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND CHAPTER 62-5565 FLORIDA ADMINISTRATIVE CODE.
2. ALL MAINS SHALL BEAT 12" MINIMUM COVER FOR PORTABLE WATER.
3. WATER MAINS SHALL BE PVC CONFORMING TO AWWA C900, DR 18 FOR PIPE SIZES 4" - 12", PIPES 14" OR LARGER SHALL BE AWWA C-900, DR 18, ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS AND PIPE PREPARATION FOR LAYING SHALL BE IN ACCORDANCE WITH THE WATER MAINS MANUFACTURER'S RECOMMENDATIONS.
4. DEPTH OF WATER LINES TO BE 36" MINIMUM COVER FROM FINISH GRADE.
5. WATER MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH ALL RESTRICTIONS OR LOCKING GASKETS AT EVERY JOINT.
7. ALL CASINGS UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE BACK OF CURB.
8. DISINFECTING: FOLLOWING THE PRESSURE TESTING, THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE NEW WATER DISTRIBUTION SYSTEM. DISINFECTING SHALL BE ACCORDANCE WITH DAK TESTED IN ACCORDANCE WITH AWWA C600, (62-5565-3302/1)B(1) AND 62-555-330, F.A.C. ALL INSTALLATION, TESTING AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE AWWA STANDARDS.
9. ALL WATER MAINS SHALL BE COVERED WITH DAK TESTED IN ACCORDANCE WITH AWWA C600, (62-5565-3302/1)B(1) AND 62-555-330, F.A.C. ALL INSTALLATION, TESTING AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE AWWA STANDARDS.
11. ALL MATERIALS AND SPECIFICATIONS COVERING PIPES, JOINTS AND PACKING MATERIALS, INTERNAL COATING AND LININGS, FITTINGS, SPECS AND APPURTENANCES SHALL ALL BE IN ACCORDANCE WITH THE CORRESPONDING AWWA STANDARDS AND BE CONFORMING TO NSF REQUIREMENTS, AS MAY BE APPLICABLE, WITH EXCEPTIONS ALLOWED ONLY IF DOCUMENTATION AND ASSURANCES ARE PROVIDED IN COMPLIANCE WITH THE AWWA C600, (62-5565-3302/1) (B), AND 62-555-330 (2) (C). F.A.C. LEAD LINE PROHIBITION IN RULE 62-555-332, F.A.C. SHALL ALSO APPLY. POLYETHYLENE TUBING SHALL BE PER AWWA C900, UNDERGROUND SERVICE LINES AND VALVES SHALL BE PER AWWA C880.

COLOR CODING

ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555-330(2)(1)B(3), F.A.C. USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE. WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL. UNDERGROUND METAL PIPE SHALL BE BLUE OR BLACK PIPE WITH BLUE STRIPES OR WHITE STRIPES. PIPE STIPPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF THE PIPE IS NOT STIPPED DURING MANUFACTURING OF THE PIPE, THE TYPE OR PRINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, PIPE OR TAPING SHALL BE IN A CONTINUOUS LINED COLOR ON EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. UNDERGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.) [FAC 62CCL 555.330(2)(1)B(3)]

UNLESS DESCRIBED IN THE CITY CSM ELSEWHERE, ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH **CHAPTER 62-555.314, F.A.C.**, AND ANY UPDATES TO THE F.A.C., AND IN CONFORMANCE WITH ALL SEPARATION REQUIREMENTS AS FOLLOWS THEREIN.

62-555.314 LOCATION OF PUBLIC WATER SYSTEM MAINS

FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER, FIRE HYDRANT LEADS, AND SERVICE LINES THAT ARE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER.


(1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR WASTEWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND, IF PREFERABLE, TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

(C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

(D) NEW OR RELOCATED, UNDERGROUND WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHEN THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

	<p align="center">City of Tavares Standard Details</p> <p align="center">City of Tavares Utility Department 1000 Captain Haynes Road Tavares, FL 32778 Phone (352)/742-6485 Fax (352)/742-6110</p>	DATE: APRIL 2018
		DETAIL PW-11B

GENERAL WATER NOTES

(D) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.005(2), F.S., AND RULE 64E-6.002, F.A.C.

(2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS AND RECLAIMED WATER PIPELINES:

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID ON THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES:

(A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.

(B) EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE, WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT (I.E. WHERE THERE IS A CONFLICT IN THE ROUTING OF A WATER MAIN AND A STORM SEWER AND WHERE ALTERNATIVE ROUTING OF THE WATER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECONOMICALLY SENSIBLE). THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THIS REQUIREMENT (I.E. THE DEPARTMENT SHALL ALLOW CONSTRUCTION OF CONFLICT MANHOLES), BUT SUPPLIERS OF WATER OR PERSONS PROPONING TO CONSTRUCT CONFLICT MANHOLES MUST FIRST OBTAIN A SPECIFIC PERMIT FROM THE DEPARTMENT AND MUST PROVIDE IN THE PRELIMINARY DESIGN REPORT OR DRAWINGS, SPECIFICATIONS, AND DESIGN DATA ACCOMPANYING THEIR PERMIT APPLICATION THE FOLLOWING INFORMATION:

1. TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE.

2. A STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH CONFLICT MANHOLE.

3. ASSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS IN SUB-PARAGRAPHS A. THROUGH D. BELOW. - 361

A. EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FLEXIBLE, WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO ACCOMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOLE.


B. WITHIN EACH CONFLICT PIPE, THE WATER MAIN PASSING THROUGH THE MANHOLE SHALL BE INSTALLED IN A WATERTIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E. HAVING IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH THICK DUCTILE IRON PIPE).

C. EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.

D. GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACH CONFLICT MANHOLE TO PREVENT LARGE OBJECTS FROM ENTERING THE MANHOLE.

(4) SEPARATION BETWEEN FREE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

(A) NEW OR RELOCATED FREE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.005(2), F.S., AND RULE 64E-6.002, F.A.C.

	City of Tavares Standard Details	DATE: APRIL 2018
	City of Tavares Utility Department 1000 Captain Haynes Road Tavares, FL 32778 Phone (352)742-6485 Fax (352)742-6110	DETAIL PW-11C

GENERAL WATER NOTES

(5) EXCEPTIONS. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THE REQUIREMENTS IN SUBSECTION (1) OR (2) ABOVE, THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THESE REQUIREMENTS IF SUPPLIERS OF WATER OR CONSTRUCTION PERMIT APPLICANTS OR ECONOMIC JUSTIFICATION FOR EACH EXCEPTION AND PROVIDE ALTERNATIVE CONSTRUCTION FEATURES THAT AFFORD A SIMILAR LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION. ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES INCLUDE THE FOLLOWING:

(A) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE.

1. USE OF PRESSURE-RAISED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-585.330, F.A.C. FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE;

2. USE OF WELDED, FLANGED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR

3. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.

(B) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM DISTANCE FROM ANOTHER PIPELINE.

1. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND

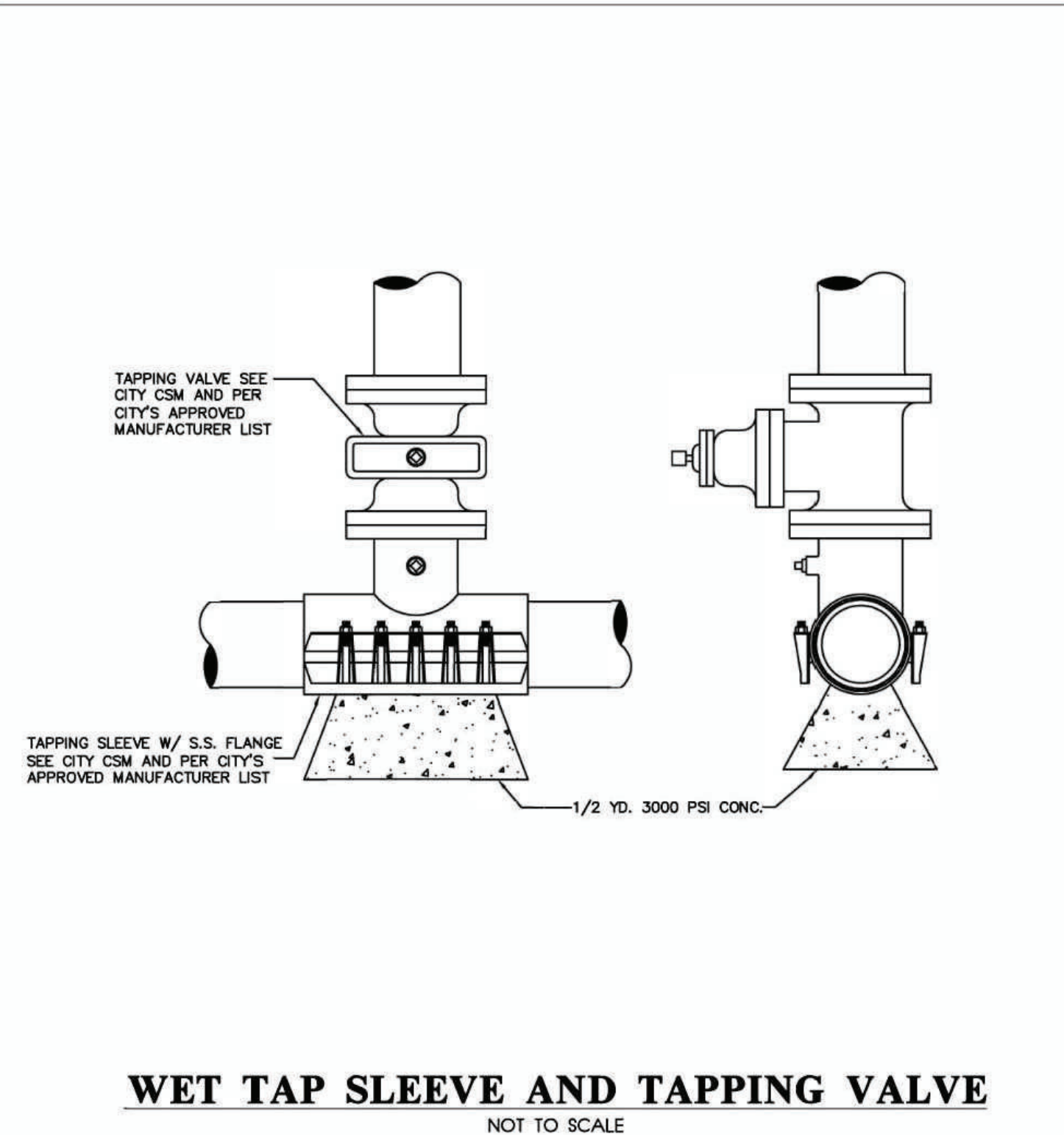
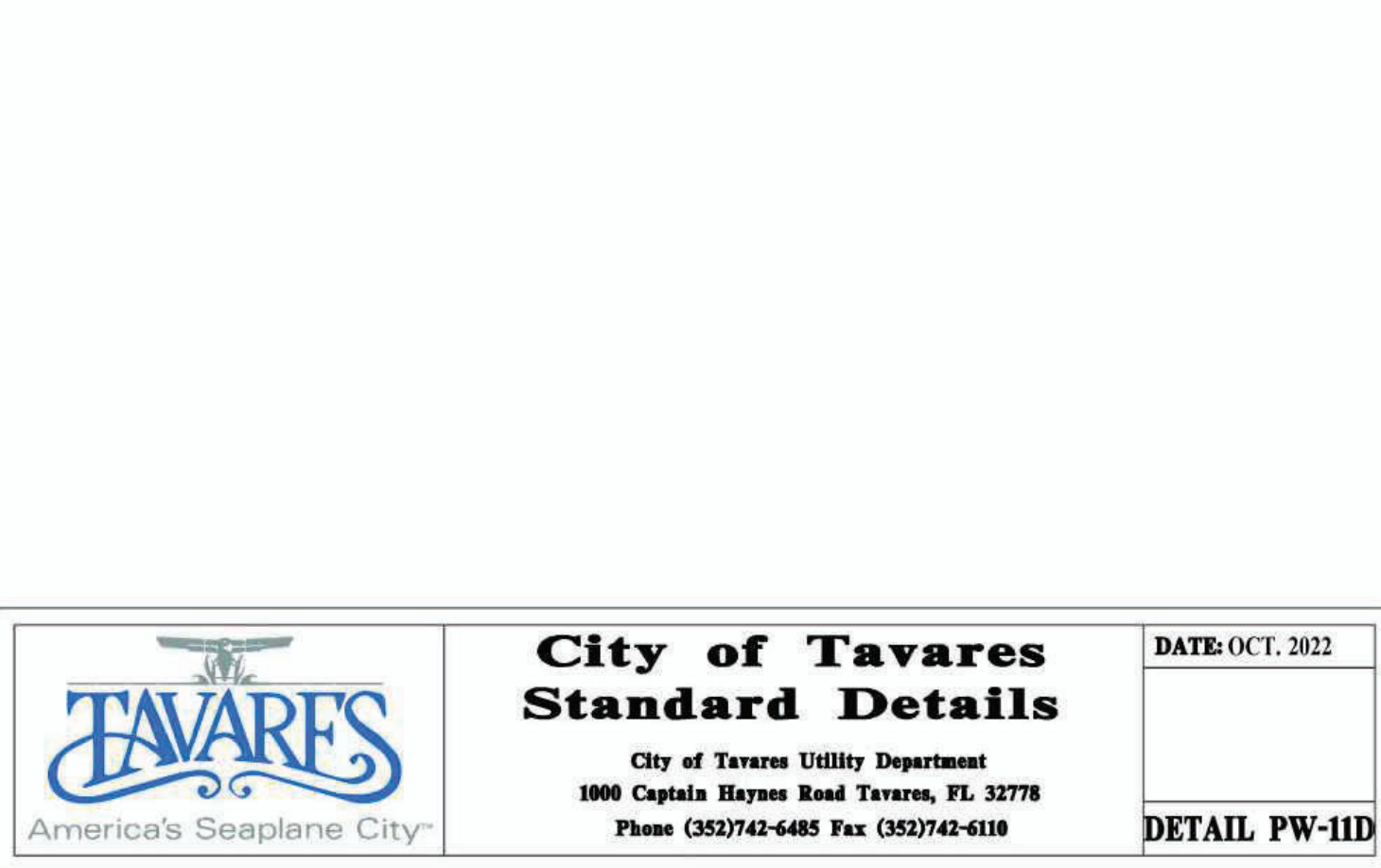
2. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.


DESIGN

(1) EXTENSION OF LINES TO ADJACENT BOUNDARIES. WATER MAINS SHALL BE DESIGNED TO STUB OUT TO THE PROJECT BOUNDARIES TO SERVE ADJACENT UNSERVED PROPERTIES. THIS SHALL INCLUDE MAINS IN RIGHTS-OF-WAY, ACROSS THE ENTIRE PROJECT FRONTAGE ON EXISTING ROADS WITHOUT EXISTING MAINS, AND TO THE PROPERTY BOUNDARY VIA EASEMENT WHEN NO OTHER ACCESS IS AVAILABLE TO UNSERVED PROPERTIES.

(2) CURB STOPS SHALL BE LOCATED WITH BULLET LOGS IMMEDIATELY AFTER FODF CLEARANCE AND PRIOR TO ACCEPTANCE.

(3) NO WATER MAINS SHALL BE LOCATED IN SIDE OR BACK LOT EASEMENTS UNDER ANY CONDITIONS



	City of Tavares Standard Details	DATE: APRIL 2018
	City of Tavares Utility Department 1900 Captain Haynes Road Tavares, FL 32778 Phone (352)742-6485 Fax (352)742-6110	
		DETAIL PW-17

NDS METER BOXES

STANDARD COMMERCIAL GRADE

NDS D1200 Meter Boxes (cont.)

Pert Number	Description - Modeling	Color/ Finish	Pallet Qty	Weight Lbs	Product Class
D1200-DWRP	14"x19"x12" Standard Box, Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Reclaimed Water	Purple/Purple	72	10.20	20ME
D1200-GLSB	14"x19"x12" Standard Box, Overlapping Solid Plastic Cover - Water Meter	Black/Black	72	9.20	20ME
D1200-OULOS	14"x19"x12" Standard Box, Overlapping Solid Plastic Cover - Water Meter	Black/Black	72	9.20	20ME
D1200-LLOCB	14"x19"x12" Standard Box, Overlapping Locking Solid Plastic Cover - Water Meter	Black/Black	72	9.40	20ME
D1200-CI	14"x19"x12" Standard Box, Overlapping Solid Cast Iron Cover - Water Meter	Black/Purple	72	19.00	20ME
D1200-CLSP	14"x19"x12" Standard Box, Overlapping Solid Plastic Cover - Reclaimed Water	Black/Purple	72	9.20	20VW
D1200-OLSP	14"x19"x12" Standard Box, Overlapping Solid Plastic Cover - Reclaimed Water	Black/Purple	72	9.20	20VW
D1200-OBUS	14"x19"x12" Standard Box, Overlapping Black Reader Plastic w/ Plastic Reader Cover - Water Meter	Black/Black	72	9.20	20ME
D1200-GLUR	14"x19"x12" Standard Box, Overlapping Black Reader Plastic w/ Cast Iron Reader Cover - Reclaimed Water	Black/Black	72	19.00	20ME
D1200-COIR	14"x19"x12" Standard Box, Overlapping Meter Reader Iron w/ Cast Iron Reader Cover - Water Meter	Black/Black	72	10.20	20ME
D1200-GBSSB	14"x19" Drop-in Solid Plastic Cover - Water Meter	Black	216	2.20	20ME
D1200-GBSSS	14"x19" Drop-in Solid Plastic Cover - Sewer	Green	216	2.20	20ME
D1200-GBSSG	14"x19" Drop-in Solid Plastic Cover - Gas	Green	216	2.20	20ME
D1200-DLSP	14"x19" Drop-in Solid Plastic Cover - Water Meter	Purple	216	2.20	20VW
D1200-DBRL	14"x19" Drop-in Solid Plastic Reader w/ Existing Water	Black	216	2.20	20ME
D1200-DBRLD	14"x19" Drop-in Solid Plastic Reader w/ Existing Water	Blue	216	2.20	20ME
D1200-ORPD LD	14"x19" Drop-in Solid Plastic Reader w/ Plastic Reader Cover - Reclaimed Water	Purple	216	2.20	20ME
D1200-DICRDL	14"x19" Drop-in Metal Reader w/ Cast Iron Reader Cover - Water Meter	Black	216	3.40	20ME
D1200-SGWTL	Overlapping Cover Only	Green	216	2.20	20ME
D1200-COIR LD	14"x19" Overlapping Cast Iron w/ Cast Iron Reader - Water Meter	Black	216	2.40	20ME
D1200-OLSSB	14"x19" Overlapping Solid Plastic Cover - Water Meter	Black	216	2.40	20ME
D1200-OLSSLD	14"x19" Overlapping Solid Plastic Cover - Water Meter	Black	216	2.40	20ME
D1200-OLBL	14"x19" Overlapping Solid Plastic Cover - Water Meter	Blue	216	2.40	20ME
D1200-OLPSB	14"x19" Overlapping Solid Plastic Cover - Reclaimed Water	Purple	216	2.40	20VW
D1200-GL	14"x19" Overlapping Meter Reader Solid Cast Iron Cover - Water Meter	Black	216	12.20	20ME
D1200-GLSSB	14"x19" Overlapping Meter Reader Solid Plastic Reader Cover - Water Meter	Black	216	2.40	20ME
D1200-GLSSLD	14"x19" Overlapping Meter Reader Solid Plastic Reader Cover - Water Meter	Black	216	2.40	20ME
D1200-GLCIR LD	14"x19" Overlapping Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black	216	3.80	20ME
Box Lid	14"x19"x12" Standard Box	Black	72	6.80	20ME
D1200-MBD	14"x19"x12" Standard Box w/ Cast Iron Bottom	Black	72	9.80	20ME
D1200-PDSD	14"x19"x12" Standard Box w/ Drop In Bottom	Purple	72	6.80	20VW
D1200-SHVD	14"x19"x12" Standard Box	Black	42	9.90	20VW

**SINGLE PLASTIC METER
BOX**

NOT TO SCALE

**City of Tavares
Standard Details**

City of Tavares Utility Department
1000 Captain Hayes Road Tavares, FL 32778

Phone (352)/42-6485 Fax (352)/42-6110

DATE: APRIL 2018

DETAIL PW-19

NO	DATE	REMARKS
REVISIONS		



STARBUCKS

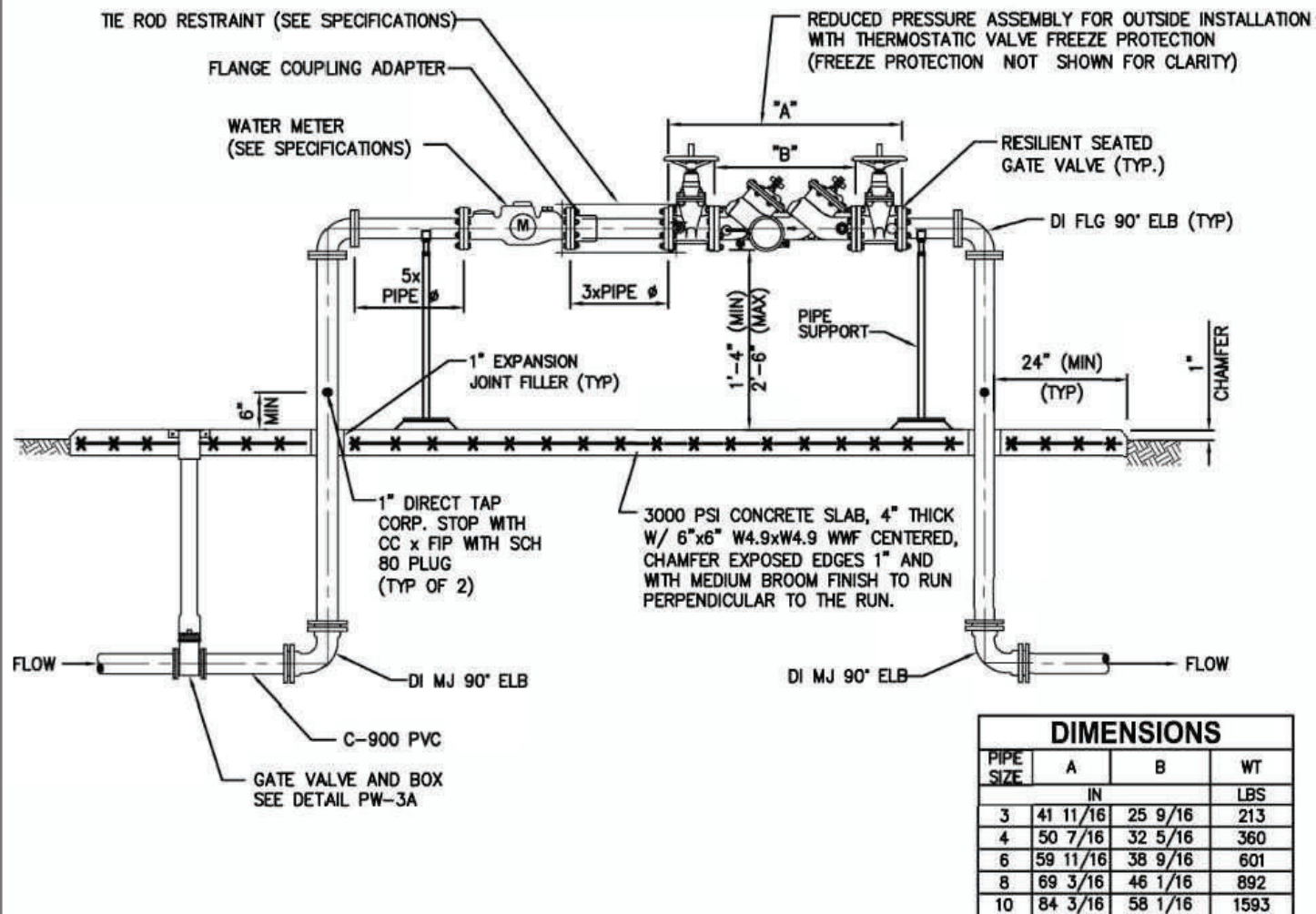
1990 STATE ROAD 19
TAVARES, FL 32778

PROJECT NO: 2023.0725
DATE: 2/13/24

C4.1


CITY DETAILS

CHECKED: CB DRAWN: KC



REDUCED PRESSURE BACKFLOW PREVENTER W/ WATER METER DETAIL

NOT TO SCALE



City of Tavares
Standard Details


City of Tavares Utility Department
1000 Captain Haynes Road Tavares, FL 32778
Phone (352)742-6485 Fax (352)742-6110

DATE: APRIL 2018

DETAIL PW-23

- ALL RECLAIMED WATER PIPING TO BE OWNED AND MAINTAINED BY THE CITY OF TAVARES SHALL BE A SOLID PANTONE PURPLE COLOR.
- RECLAIMED WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, OR 18 FOR PIPE SIZES 4"-12". PIPES 14" & LARGER SHALL BE AWWA C-905, OR 25. PRESSURE CLASS 350 DIP IS AN ACCEPTABLE ALTERNATE. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION FOR LAYING SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURERS LATEST RECOMMENDATIONS.
- DEPTH OF RECLAIMED WATER LINES TO BE 36" MIN. BELOW FINISHED GRADE.
- RECLAIMED WATER MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL PIPING CLEARANCES SHALL BE IN ACCORDANCE WITH CHAPTER 62-555.314, F.A.C.
- ALL RECLAIMED WATER MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON PIPE AND SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB, EXCEPT DIRECTIONAL BORES, WHICH SHALL BE SDR-11 HDPE.
- ALL IRRIGATION SLEEVING UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB.
- ALL OTHER REQUIREMENTS OF THE CITY WATER SYSTEM SHALL APPLY TO THE RECLAIMED WATER SYSTEM.
- PROPER SIGNAGE FOR PUBLIC ACCESS IRRIGATION AREAS TO BE SUPPLIED BY THE DEVELOPER / CONTRACTOR, IN ACCORDANCE WITH CHAPTER 62-610.418, F.A.C.
- EXTENSION OF LINES TO PROJECT BOUNDARIES. RECLAIM MAINS SHALL BE DESIGNED TO STUB OUT TO THE PROJECT BOUNDARIES TO SERVE ADJACENT UNSERVED PROPERTIES. THIS SHALL INCLUDE MAINS IN RIGHTS-OF-WAY, ACROSS THE ENTIRE PROJECT FRONTAGE ON EXISTING ROADS WITHOUT EXISTING MAINS, AND TO THE PROPERTY BOUNDARY VIA EASEMENT WHEN NO OTHER ACCESS IS AVAILABLE TO UNSERVED PROPERTIES.
- NO RECLAIMED WATER MAINS SHALL BE LOCATED IN SIDE OR BACK LOT EASEMENTS UNDER ANY CONDITION

GENERAL RECLAIMED WATER NOTES

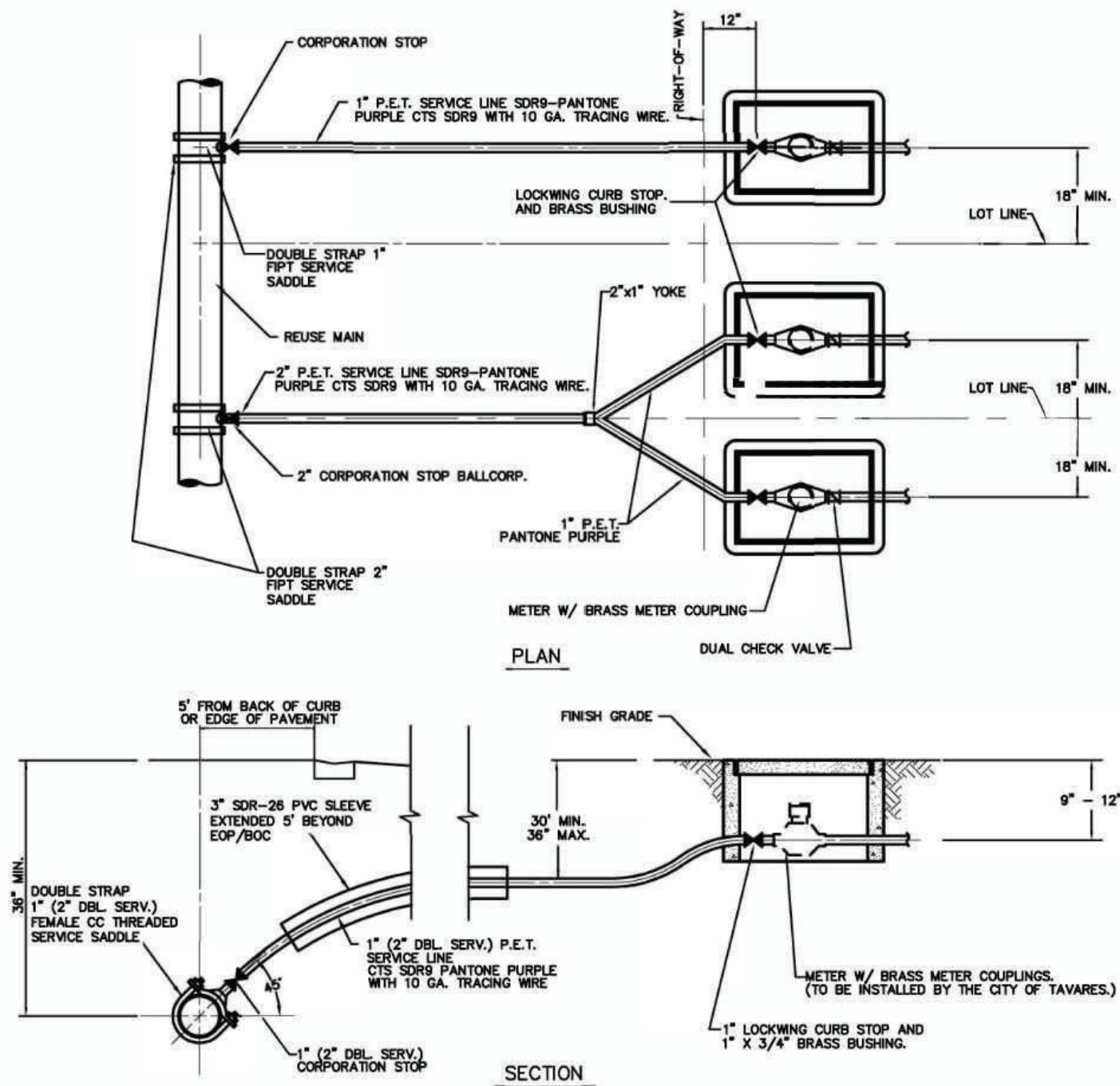


City of Tavares
Standard Details

City of Tavares Utility Department
1000 Captain Haynes Road Tavares, FL 32778
Phone (352)742-6485 Fax (352)742-6110


DATE: OCT. 2022

DETAIL RW-1



RECLAIMED WATER SERVICE CONNECTION

NOT TO SCALE
(NOTE: METERS TO BE INSTALLED BY CITY OF TAVARES.)

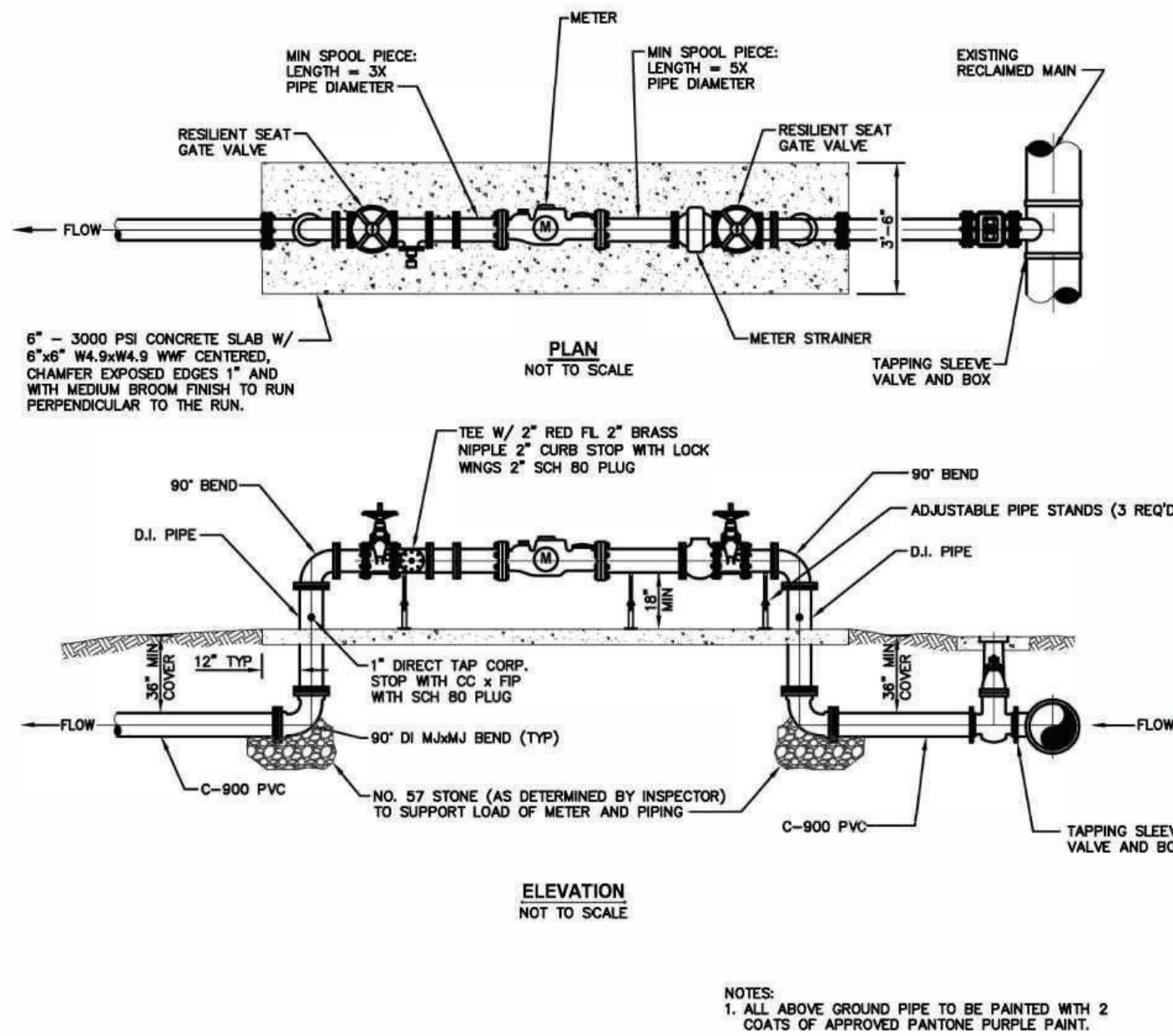


City of Tavares
Standard Details

City of Tavares Utility Department
1000 Captain Haynes Road Tavares, FL 32778
Phone (352)742-6485 Fax (352)742-6110


DATE: APRIL 2018

DETAIL RW-3



RECLAIMED WATER METERING

NOT TO SCALE
(NOTE: METERS TO BE INSTALLED BY CITY OF TAVARES.)

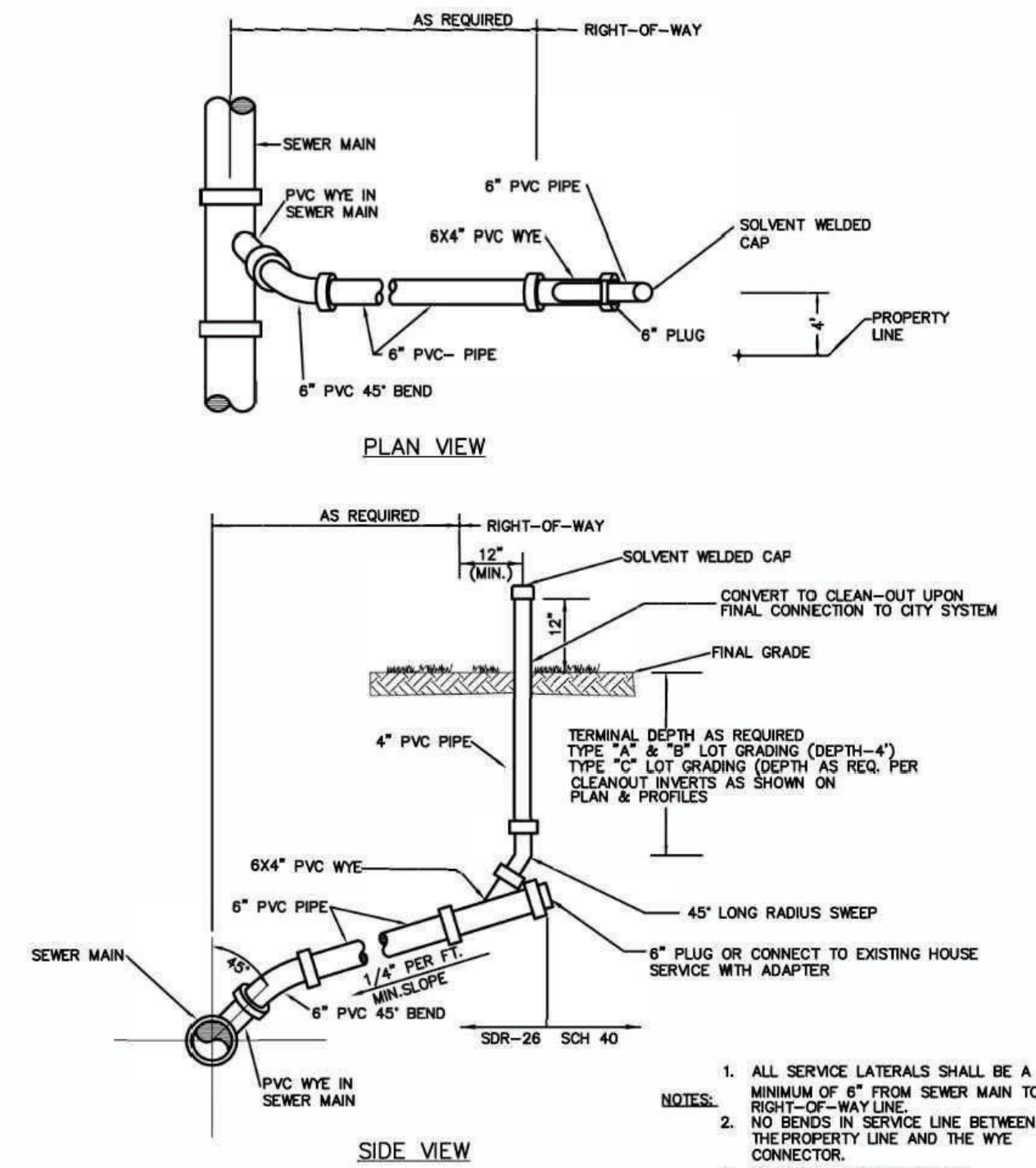


City of Tavares
Standard Details

City of Tavares Utility Department
1000 Captain Haynes Road Tavares, FL 32778
Phone (352)742-6485 Fax (352)742-6110


DATE: APRIL 2018

DETAIL RW-4



SANITARY SEWER SERVICE

PVC SINGLE SERVICE - NOT TO SCALE



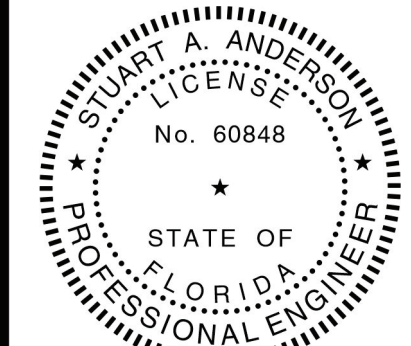
City of Tavares
Standard Details

City of Tavares Utility Department
1000 Captain Haynes Road Tavares, FL 32778
Phone (352)742-6485 Fax (352)742-6110

DATE: APRIL 2022

DETAIL WW-6

SEAL:



This item has been digitally signed and sealed by Stuart Anderson on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NO DATE REMARKS
REVISIONS



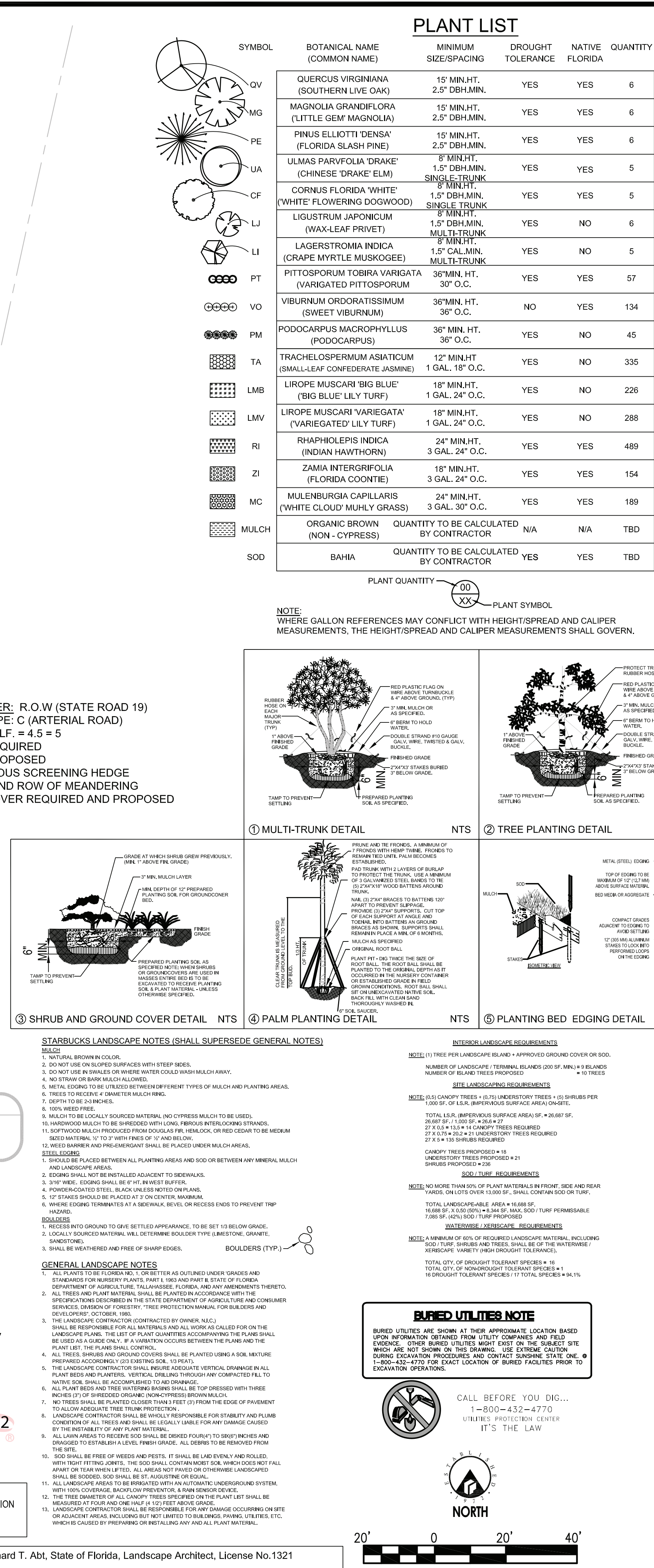
STARBUCKS

1990 STATE ROAD 19
TAVARES, FL 32778

PROJECT NO: 2023.0725
DATE: 2/13/24

C4.2
CITY DETAILS

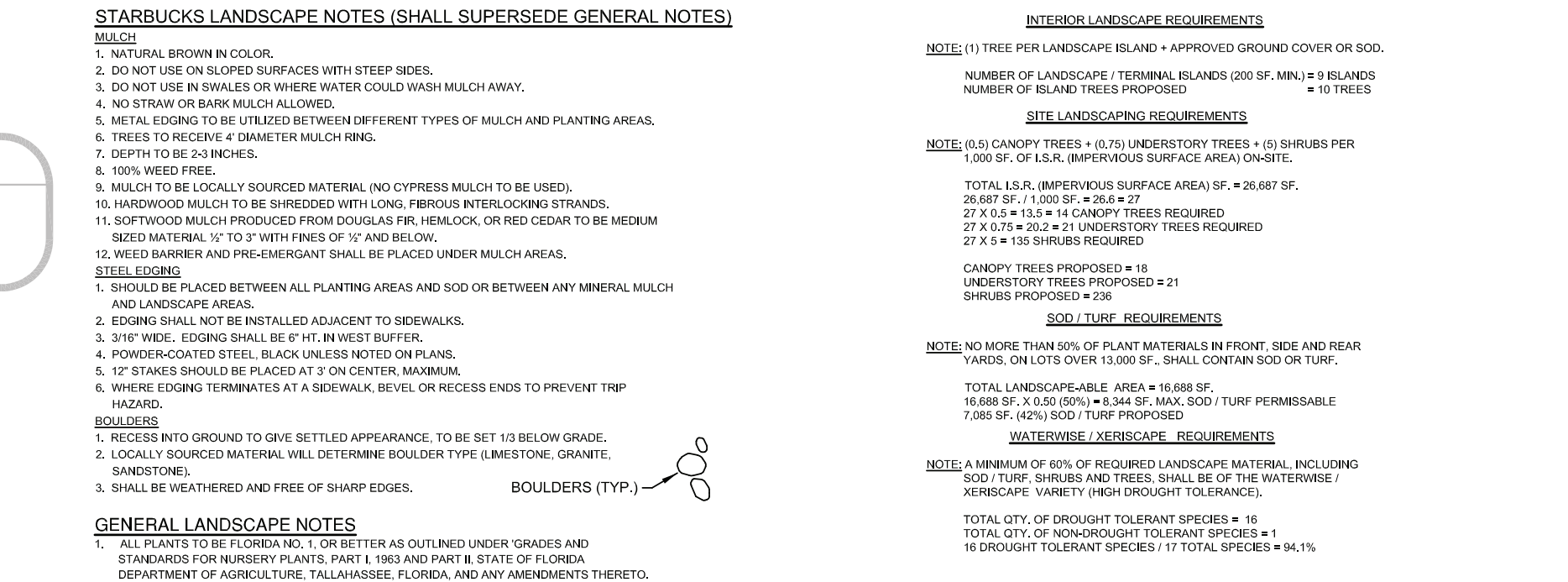
CHECKED: CB DRAWN: KC



PLANT QUANTITY — 00

PLANT SYMBOL — XX

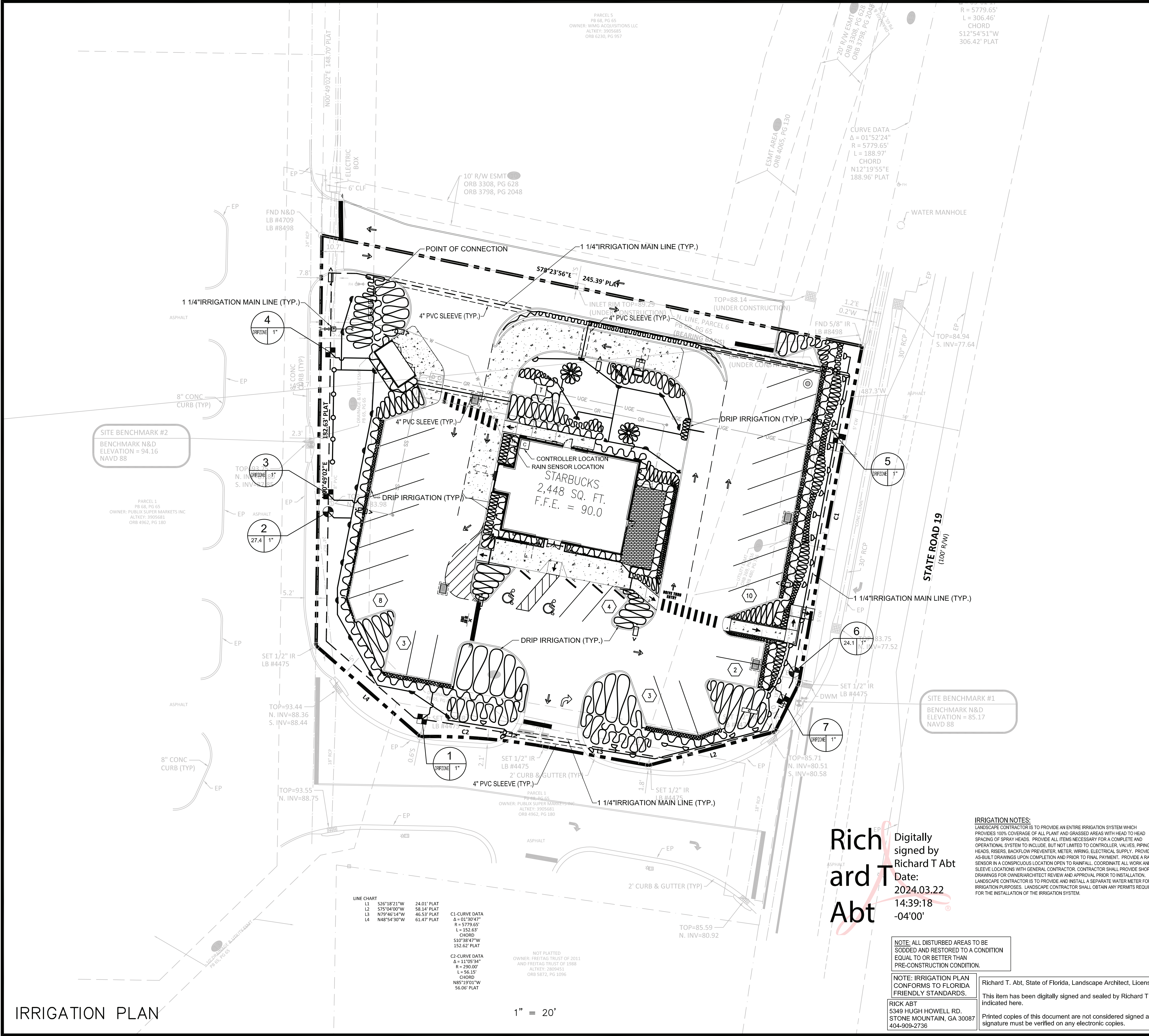
NOTE:
WHERE GALLON REFERENCES MAY CONFLICT WITH HEIGHT/SPREAD AND CALIPER MEASUREMENTS, THE HEIGHT/SPREAD AND CALIPER MEASUREMENTS SHALL GOVERN.



 CALL BEFORE YOU DIG...
1-800-432-4770
UTILITIES PROTECTION CENTER
IT'S THE LAW


NORTH

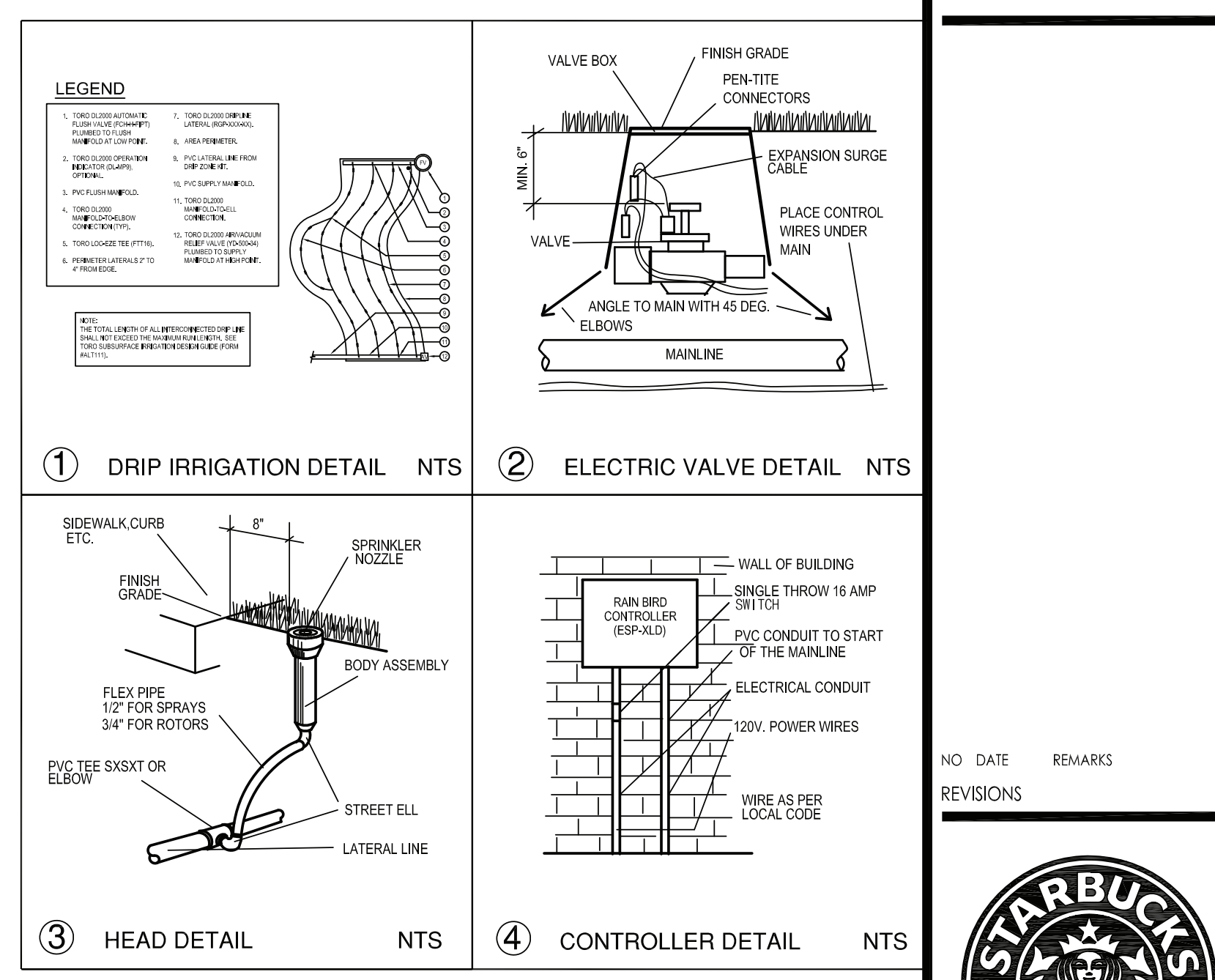




IRRIGATION LEGEND		
○	FULL 6" POP-UP SPRAY HEAD	570-8-F
△	1/4 6" POP-UP SPRAY HEAD	570-8-Q
△	1/2 6" POP-UP SPRAY HEAD	570-8-H
△	1/3 6" POP-UP SPRAY HEAD	570-8-T
△	2/3 6" POP-UP SPRAY HEAD	570-8-TT
△	3/4 6" POP-UP SPRAY HEAD	570-8-TQ
●	FULL 6" POP-UP SPRAY HEAD	570-15-F
△	1/4 6" POP-UP SPRAY HEAD	570-15-Q
△	1/2 6" POP-UP SPRAY HEAD	570-15-H
△	1/3 6" POP-UP SPRAY HEAD	570-15-T
△	2/3 6" POP-UP SPRAY HEAD	570-15-TT
△	3/4 6" POP-UP SPRAY HEAD	570-15-TQ
■	CENTER STRIP SPRAY HEAD	570-4-CST
■	SIDE STRIP SPRAY HEAD	570-4-SST
■	END STRIP SPRAY HEAD	570-4-EST
■	POP-UP STREAM ROTOR	T5-PCK1.5-RS
★	STREAM BUBBLER	570S-FB-PC
■	TORO PLASTIC VALVES	
—	CLASS 200 PVC MAIN LINE	
—	CLASS 160 PVC LATERAL LINE	
—	PVC SLEEVE 4" IN DIAMETER	
—	PIPE CROSSOVER	
—	BACKFLOW PREVENTER	
—	IRRIGATION METER	
□	CONTROLLER LOCATION (RAIN BIRD ESP-LXD)	
□	RAIN SENSOR LOCATION (IRRITROL RFS1000)	

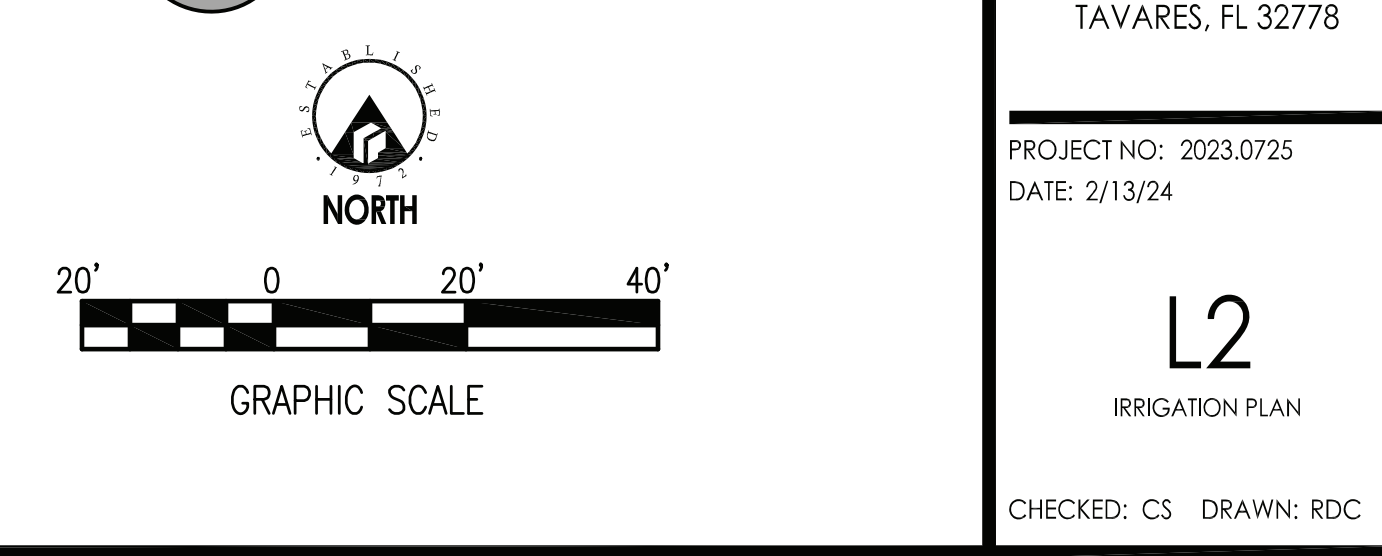
VALVES		
■	700DK-1-DCL-MF	1" VALVE W/ DC LATCHING SOLENOID (DRIP ZONE VALVE KIT)
●	P220S-27-04	1" VALVE W/ EZ REG. AND ACT SYSTEM (SPRAY HEADS VALVE)

NOTE: MODEL NUMBERS SHOWN REFLECT TORO 570Z PRX SERIES SPRINKLER HEADS WITH MPR + PRECISION SERIES SPRAY NOZZLES. ANY HEADS OF EQUAL QUALITY MAY BE USED WITH THE APPROVAL OF THE OWNER. CONTRACTOR TO SIZE ALL LATERAL LINES AND INSURE THE PERFORMANCE OF ALL HEADS.



BURIED UTILITIES NOTE
BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT FLORIDA STATE ONE-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

CALL BEFORE YOU DIG...
1-800-432-4770
UTILITIES PROTECTION CENTER
IT'S THE LAW



IRRIGATION PLAN

1" = 20'

Richard T. Abt

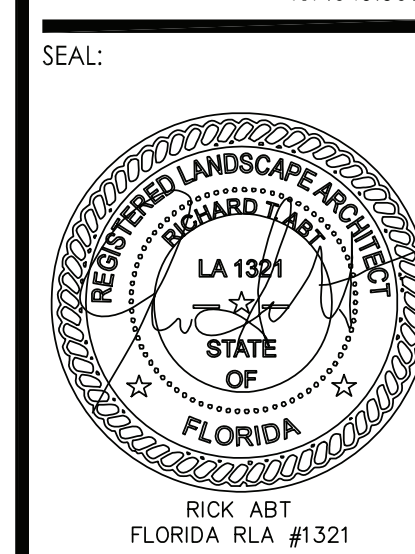
Digitally signed by Richard T Abt
Date: 2024.03.22 14:39:18 -04'00'

NOTE: ALL DISTURBED AREAS TO BE SODDED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITION.

NOTE: IRRIGATION PLAN CONFORMS TO FLORIDA FRIENDLY STANDARDS.

Richard T. Abt, State of Florida, Landscape Architect, License No.1321
This item has been digitally signed and sealed by Richard T. Abt on the date indicated here.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

220 E. CENTRAL PKWY, STE 4000
ALAMONTES SPRINGS, FL 32701
407.645.5008



NO DATE
REMARKS
REVISIONS



STARBUCKS
1990 STATE ROAD 19
TAVARES, FL 32778

PROJECT NO: 2023.0725
DATE: 2/13/24

L2
IRRIGATION PLAN

CHECKED: CS DRAWN: RDC

DESCRIPTION

PARCEL 6 OF TAVARES CROSSROADS, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 68, PAGE 65, OF PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.

TOGETHER WITH A PERPETUAL, NON-EXCLUSIVE, AND RECIPROCAL EASEMENT OVER, ACROSS, UPON, AND THROUGH THE SHARED DRIVEWAY EASEMENT AREA IN SHARED DRIVEWAY EASEMENT AGREEMENT RECORDED ON OCTOBER 23, 2023, IN OFFICIAL RECORDS BOOK 6230, PAGE 944, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.

NOTE: OFFICIAL RECORDS BOOK 6230, PAGE 944 IN THE ABOVE DESCRIPTION IS INCOMPLETE AND CANNOT BE GRAPHICALLY DEPICTED.

NOTES

1. BEARING STRUCTURE IS ASSUMED AND BASED ON THE NORTH LINE OF PARCEL 6, TAVARES CROSSROADS, AS RECORDED IN PLAT BOOK 68, PAGE 65, PUBLIC RECORDS OF LAKE COUNTY, FLORIDA, BEING S78°23'56"E.

2. THIS SURVEY REFLECTS ONLY MATTERS OF RECORD AS PROVIDED BY THE CLIENT OR CLIENTS REPRESENTATIVE.

3. THE SURVEYOR IS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THIS SURVEY WAS MADE ON THE GROUND. ANY UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM OBSERVED SURFACE UTILITY FEATURES AND/OR DRAWINGS PROVIDED BY CLIENT. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

4. SUBJECT PROPERTY LIES IN ZONE "X", BASED ON FLOOD INSURANCE RATE MAP NO. 12069C0345E, COMMUNITY NO. 120421, LAKE COUNTY, FLORIDA, EFFECTIVE DECEMBER 18, 2012.

5. THIS SURVEY IS VALID ONLY FOR THE PARTIES TO WHOM IT IS CERTIFIED TO. LIABILITY TO THIRD PARTIES MAY NOT BE TRANSFERRED OR ASSIGNED.

6. THIS SURVEY EXCEEDS THE ACCURACY REQUIREMENTS SET FORTH IN FLORIDA STATUTES.

7. THIS SURVEY WAS MADE WITH BENEFIT OF FIRST AMERICAN TITLE INSURANCE COMPANY'S COMMITMENT NO. 110228437, EFFECTIVE: FEBRUARY 12, 2024.

8. ELEVATIONS BASED ON NATIONAL GEODETIC SURVEY BENCHMARK DESIGNATED "D 566" HAVING AN ELEVATION OF 77.58 FEET, (NAVD 88).

*AS TO TABLE "A" ITEMS OF THE CERTIFICATION SHOWN HEREON:

- ITEM 4: CONTAINS 44,891 SQUARE FEET OR 1.031 ACRES MORE OR LESS..

- ITEM 6(A): ZONING INFORMATION NOT PROVIDED TO SURVEYOR.

- ITEM 9: THERE ARE NO STRIPED SPACES FOR PARKING ON SUBJECT PROPERTY.

- ITEM 11(A): PLANS AND/OR REPORTS NOT PROVIDED BY CLIENT.

- ITEM 16: NO EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR ADDITIONS WAS OBSERVED.

- ITEM 17: SURVEYOR IS NOT AWARE OF ANY PROPOSED CHANGES IN STREET RIGHT-OF-WAY LINES AND DID NOT OBSERVE ANY EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.



SCALE: 1" = 30'	JOB #57738	SHEET 1 OF 1
DRAWN BY: SAH		
PREPARED FOR:		

DRAWN BY: SAH	
PREPARED FOR:	

RED BELL PARTNERS

SUBDIVISION NAME: TAVARES CROSSROADS

LOCATION:
UNASSIGNED STATE ROAD 10UNASSIGNED STATE ROAD 19
TAVARES, FL 32778

TAVARES, FL 32778

LEGEND

BB	- BOTTOM OF BANK	MEAS	- MEASURED
BA	- BACK FLOW PREVENTER	MF	- METAL SHEED
B	- BENCHMARK	MS	- MISSED
B	- BOLLARD	MS	- MITERED END SECTION
E	- BURIED ELECTRIC	MS	- MONITORING WELL
BWF	- BARBED WIRE FENCE	MS	- NAIL & DISC
TV	- CABLE TV RISER	NAVO	- NORTH AMERICAN
IR	- RIGID CABLE TV	NAVO	- VERTICAL DATUM
A	- CENTRAL ANGLE	NGVD	- NORTH AMERICAN GEODETIC
CCW	- CONCRETE BLOCK WALL	NGVD	- VERTICAL DATUM
CC	- COVERED CONCRETE	NT	- NON-TANGENT
CBR	- CERTIFIED CORNER RECORD	ORB	- OFFICIAL RECORDS
C	- CONCRETE FLUTE	-OW	- OVERHEAD WIRE
CCW	- CONCRETE HEAD WALL	PB	- PLASTIC BOARD
CLF	- CHAIN LINK FENCE	PC	- POINT OF CURVATURE
C	- CEMENT LINE	PE	- PLANNING PLANS
CP	- CONCRETE MONUMENT	PF	- PLASTIC FENCE
CMP	- CORRUGATED METAL PIPE	PG	- PAGE
CC	- CLEAN OUT	PI	- POINT OF INTERSECTION
CONC	- CONCRETE	PBM	- PLAT & MEASURED
CONC	- CONCRETE	POB	- POINT OF BEGINNING
CP	- CONCRETE PAD	POC	- POINT OF COMMENCEMENT
CW	- CONCRETE WALKWAY	PRC	- POINT OF REVERSE
D&M	- DEPRESS & MEASURE	RC	- RADIUS
DE	- DRAINAGE EASEMENT	# P5	- PARKING SPACES
DESC	- DESCRIPTION	PSM	- PROFESSIONAL SURVEYOR
DOT	- DOT INLET	PT	- POINT OF TANGENCY
D	- DOCUMENT #	PLC	- PLASTIC PIPE
DW	- DUMPSITE PAD	RC	- CURVE RADIUS
DW	- DRIVEWAY	RCP	- REINFORCED CONCRETE PIPE
DWM	- DETECTABLE WARNING MAT	RW	- RIGHT OF WAY
E	- ELECUTIC NUMBER	S	- SANITARY MANHOLE
E	- ELECTRIC	S	- SANITARY LINE
EB	- ELECTRICAL BOX	SD	- SHOWN FOR DIRECTION ONLY
E	- ELEVATION	SE	- SQUARE FEET
ESMT	- EASEMENT	S	- STOCK WIRE FENCE
E	- EDGE OF PAVEMENT	x00.00	- SLOPE PERCENT
FP	- FIRE DEPARTMENT	-D-	- STORM DRAIN
CONC	- CONNECTION	-D-	- SEWER VALVE
FIRM	- FLOOD INSURANCE	①	- STORM MANHOLE
RTM	- RATE MAP	①	- STORM INLET
FTE	- FINISHED FLOOR ELEVATION	①	- UNDERGROUND TELEPHONE
F	- FIRE HYDRANT	①	- UNDERGROUND TELEPHONE
FM	- FORMER MAIN	①	- UNDERGROUND TELEPHONE
FD	- FIBER OPTIC DUCT	①	- UNDERGROUND TELEPHONE
-D-	- FIBER OPTIC BOX	①	- UNDERGROUND TELEPHONE
-D-	- FIBER OPTIC LINE	①	- UNDERGROUND TELEPHONE
-G-	- GAS LINE	①	- UNDERGROUND TELEPHONE
①	- GAS METER	①	- UNDERGROUND TELEPHONE
①	- GAS VALVE	①	- UNDERGROUND TELEPHONE
①	- GREASE TRAP	①	- UNDERGROUND TELEPHONE
-G-	- GUY WIRE ANCHOR	①	- UNDERGROUND TELEPHONE
-H-	- HANDICAP PARKING	①	- UNDERGROUND TELEPHONE
HOPE	- HIGH DENSITY	①	- UNDERGROUND TELEPHONE
PH	- POLYETHYLENE	①	- UNDERGROUND TELEPHONE
INV	- INVERT ELEVATION	①	- UNDERGROUND TELEPHONE
IP	- IRON PIPE	①	- UNDERGROUND TELEPHONE
IR	- IRON ROD	①	- UNDERGROUND TELEPHONE
I	- IRRIGATION VALVE	①	- UNDERGROUND TELEPHONE
L	- ARCH LENGTH	①	- UNDERGROUND TELEPHONE
LB	- LICENSED BUSINESS	①	- UNDERGROUND TELEPHONE
LS	- LIGHT POLE	①	- UNDERGROUND TELEPHONE
LSA	- LANDSCAPE AREA	①	- UNDERGROUND TELEPHONE
L	- LICENSE SURVEYOR	①	- UNDERGROUND TELEPHONE

SURVEY DATE: 2/5/24

[illegible]

BOUNDARY AND TOPOGRAPHIC SURVEY

TO: RED BELL PARTNERS, L.L.C., A WASHINGTON LIMITED LIABILITY COMPANY; V 3 TAVARES RETAIL, LLC, A FLORIDA LIMITED LIABILITY COMPANY; FIRST AMERICAN TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(A), 7(A), 8, 9, 11, 13, 16 AND 17 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON FEBRUARY 5, 2024.

DATE OF PLAT OR MAP: FEBRUARY 5, 2024

TERRENCE W. RUTTER, JR., PSM 7371

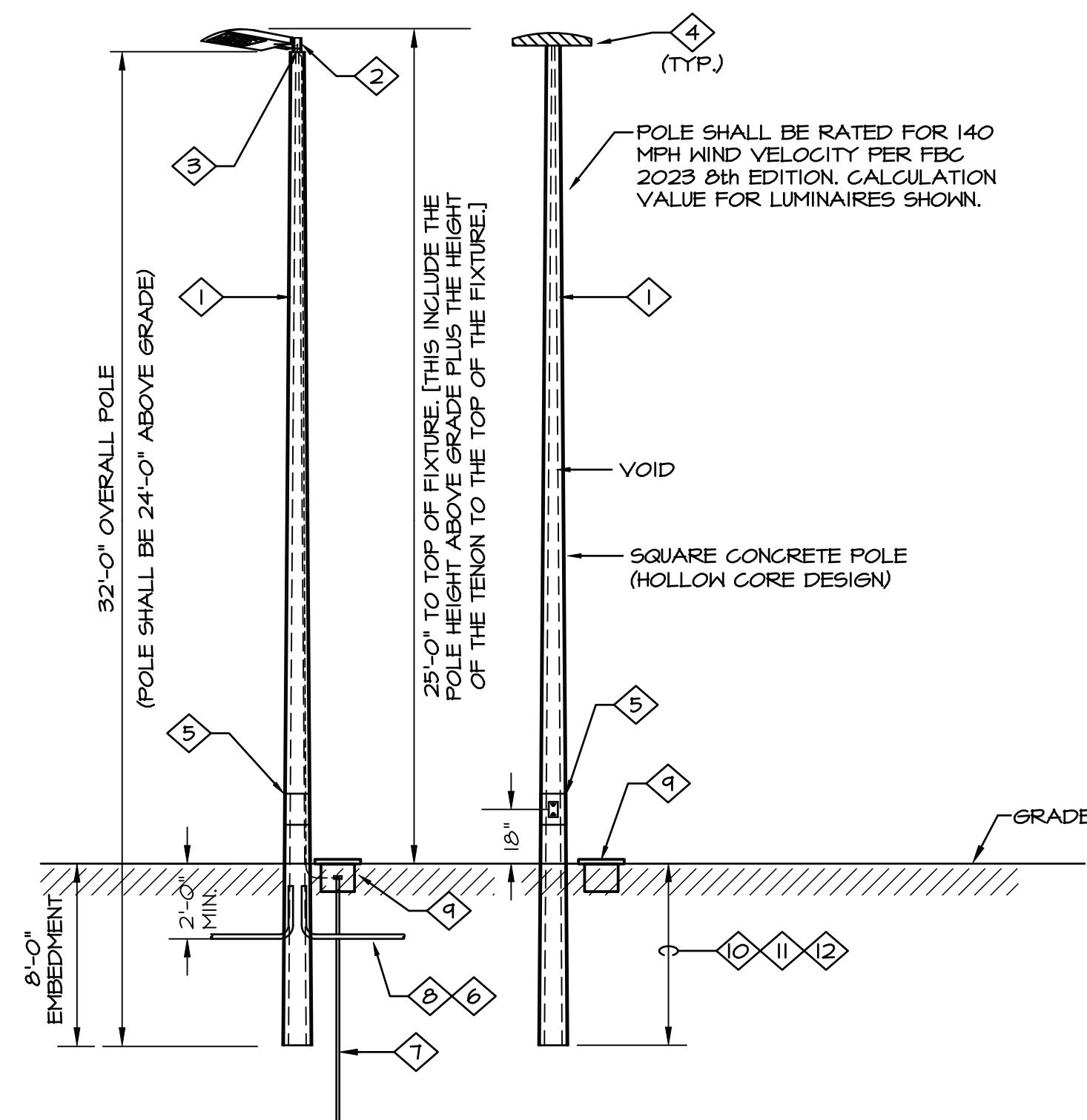
"THE DATE OF SIGNATURE DOES NOT REVISE OR SUPERSEDE THE SURVEY DATE OR REVISION DATE."

THIS SURVEY MEETS THE "STANDARDS OF PRACTICE" AS REQUIRED BY
CHAPTER 5J-17 FLORIDA BOARD OF LAND SURVEYORS, PURSUANT TO
SECTION 472.027 OF THE FLORIDA STATUTES.

"NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF THIS
FLORIDA LICENSED SURVEYOR AND MAPPER." -OR-
THE DIGITAL SEAL APPEARING ON THIS DOCUMENT WAS
AUTHORIZED BY TERRENCE W. RUTTER, JR., PSM 7371.

COMMENTS

DETAIL



NOT TO SCALE

NOTES:

- 1 DIRECT BURIAL POLE SHALL BE RATED FOR WIND VELOCITY PER FBC 2023 8th EDITION. CALCULATION SHALL BE BASED ON THE EPA VALUE FOR THE LUMINAIRE SHOWN PER POLE.
- 2 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.
- 3 NO. 6 GROUND CONDUCTOR, FURNISHED WITH THE POLE, BONDED AT THE J BOX AT THE BOTTOM OF THE POLE. SEE NOTE #11, AND TO THE EQUIPMENT GROUND CONDUCTOR RAN WITH THE CIRCUIT FROM THE DESIGNATED PANEL IN THE BUILDING.
- 4 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.
- 5 HAND HOLE AT 18" A.F.S.
- 6 CONDUIT, EXTEND TO PULL BOX OR NEXT POLE AS REQUIRED.
- 7 3/4" x 10'-0" COPPER CLAD GROUND ROD FOR LIGHTNING PROTECTION. CONNECTION TO THE GROUND ROD SHALL BE MADE VIA A U.L. LISTED MECHANICAL CONNECTION.
- 8 SEE ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE SIZES AND DESTINATION PANEL. WIRE SIZE UP THE POLE SHALL BE SAME SIZE FEEDING THE POLE.
- 9 PROVIDE FLUSH IN GRADE 4"x12" LONG PVC SCHEDULE 80 PIPE. PIPE SHALL HAVE A FEMALE ADAPTER WITH SCREW IN COVER ON ONE END. PIPE SHALL BE USED FOR GROUND ROD CONNECTION INSPECTION WELL. LOCATED BEHIND THE BASE OF THE POLE IN A PROTECTED AREA.
- 10 DEPTH OF THE EMBEDMENT OF THE POLE SHALL BE AS RECOMMENDED BY POLE MANUFACTURER TO MEET REQUIRED WIND LOADING. MINIMUM EMBEDMENT SHALL NOT BE LESS THAN 8'-0", OR AS LISTED IN NOTE #11 BELOW, WHICHEVER IS MORE STRINGENT.
- 11 PROVIDE EMBEDMENT LENGTH DESIGN, SIGNED AND SEALED BY A FLORIDA CERTIFIED STRUCTURAL ENGINEER, THAT MEETS THE REQUIRED WIND SPEED AS A MINIMUM, BASED ON POLE HEIGHT, FIXTURES EPA RATING, AND SITE SOIL CONDITIONS WITH ESTIMATED PASSIVE PRESSURE OF 200 PCF.
- 12 POLE SHALL BE INSTALLED AS FOLLOWS:
 - A. USE MINIMUM AUGER SIZE POSSIBLE BASED ON POLE BUTT SIZE TO MINIMIZE DISTURBANCE OF ADJACENT SOIL.
 - B. PROVIDE 6" COURSE GRANULAR BASE PAD AT BOTTOM OF POLE.
 - C. BACK FILL AND COMPACT, IN 6" LIFTS, TO 90% OF EXISTING SOIL VALUE.
 - D. USE CLEAN SOIL FOR COMPACTION.

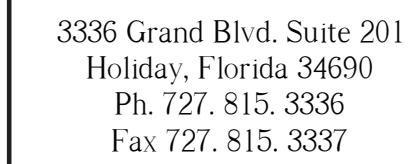
Surface Schedule							
Name	Reflectance		Normal				
	Front	Back	X	Y	Z	Area(ft2)	
Solid							
Bottom	0%	0%	0.00	0.00	-1.00	2454.99	
Side 1	0%	0%	0.00	1.00	0.00	1657.90	
Side 2	0%	0%	1.00	0.00	0.00	480.39	
Side 3	0%	0%	0.00	1.00	0.00	194.39	
Side 4	0%	0%	1.00	0.00	0.00	393.25	
Side 5	0%	0%	0.00	-1.00	0.00	198.86	
Side 6	0%	0%	1.00	0.00	0.00	408.89	
Side 7	0%	0%	0.00	-1.00	0.00	1660.13	
Side 8	0%	0%	-1.00	0.00	0.00	1280.29	
Side 9	0%	0%	-0.32	0.95	0.00	7.97	
Top	0%	0%	0.00	0.00	1.00	2454.99	
Solid							
Bottom	0%	0%	0.00	0.00	-1.00	517.20	
Side 1	0%	0%	0.00	1.00	0.00	14.92	
Side 2	0%	0%	1.00	0.00	0.00	34.66	
Side 3	0%	0%	0.00	-1.00	0.00	14.92	
Side 4	0%	0%	-1.00	0.00	0.00	34.66	
Top	0%	0%	0.00	0.00	1.00	517.20	
Solid							
Bottom	0%	0%	0.00	0.00	-1.00	132.64	
Side 1	0%	0%	0.00	1.00	0.00	44.41	
Side 2	0%	0%	1.00	0.00	0.00	2.99	
Side 3	0%	0%	0.00	-1.00	0.00	44.41	
Side 4	0%	0%	-1.00	0.00	0.00	2.99	
Top	0%	0%	0.00	0.00	1.00	132.64	
Solid							
Bottom	0%	0%	0.00	0.00	-1.00	14.75	
Side 1	0%	0%	0.00	1.00	0.00	5.08	
Side 2	0%	0%	1.00	0.00	0.00	2.90	
Side 3	0%	0%	0.00	-1.00	0.00	5.08	
Side 4	0%	0%	-1.00	0.00	0.00	2.90	
Top	0%	0%	0.00	0.00	1.00	14.75	
Solid							
Bottom	0%	0%	0.00	0.00	-1.00	0.24	
Side 1	0%	0%	0.00	1.00	0.00	4.88	
Side 2	0%	0%	1.00	0.00	0.00	5.52	
Side 3	0%	0%	0.00	-1.00	0.00	4.88	
Side 4	0%	0%	-1.00	0.00	0.00	5.52	
Top	0%	0%	0.00	0.00	1.00	0.27	
Solid							
Bottom	0%	0%	0.00	0.00	-1.00	0.24	
Side 1	0%	0%	0.00	1.00	0.00	4.67	
Side 2	0%	0%	1.00	0.00	0.00	5.09	
Side 3	0%	0%	0.00	-1.00	0.00	4.67	
Side 4	0%	0%	-1.00	0.00	0.00	5.09	
Top	0%	0%	0.00	0.00	1.00	0.24	
Solid							
Bottom	0%	0%	0.00	0.00	-1.00	0.25	
Side 1	0%	0%	0.00	1.00	0.00	5.04	
Side 2	0%	0%	1.00	0.00	0.00	4.92	
Side 3	0%	0%	0.00	-1.00	0.00	5.04	
Side 4	0%	0%	-1.00	0.00	0.00	4.92	
Top	0%	0%	0.00	0.00	1.00	0.25	
Solid							
	10%	10%	0.71	0.71	0.00	154.48	
	10%	10%	-0.70	0.71	0.00	77.28	
	10%	10%	-0.71	-0.71	0.00	154.64	
	10%	10%	0.71	-0.71	0.00	77.28	

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	
1. OVERALL PARCEL	+	2.5 fc	7.7 fc	0.3 fc	25:7.1	8.3:1	
2. SPILL LIGHT	+	1.2 fc	3.0 fc	0.3 fc	10:0.1	4:0.1	
3. PATIO AREA LIGHTING	+	11.3 fc	14.3 fc	4.7 fc	3:0.1	2:4.1	
4. FRONT CANOPY LIGHTING	+	9.6 fc	11.4 fc	7.6 fc	1.5:1	1.3:1	
5. DRIVE THRU AREA LIGHTING	+	9.5 fc	11.0 fc	7.4 fc	1.5:1	1.3:1	
6. SERVICE DOOR AREA LIGHTING	+	4.0 fc	4.0 fc	4.0 fc	1:0.1	1:0.1	
7. DUMPSTER ENCLOSURE LIGHTING	+	7.1 fc	10.3 fc	3.3 fc	3:1.1	2:2.1	
8. PAVED AND PARKING AREAS	X	2.9 fc	7.7 fc	0.6 fc	12:8.1	4:8.1	

Luminaire Locations											
No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z	Aim
1	CA	140.92	228.11	10.00	10.00	97.40	0.00	140.92	228.11	0.00	
2	CA	148.92	228.11	10.00	10.00	0.00	0.00	148.92	228.11	0.00	
3	CA	140.92	234.11	10.00	10.00	0.00	0.00	140.92	234.11	0.00	
4	CA	148.92	234.11	10.00	10.00	0.00	0.00	148.92	234.11	0.00	
5	CA	140.92	237.44	10.00	10.00	0.00	0.00	140.92	237.44	0.00	
6	CA	148.92	237.44	10.00	10.00	0.00	0.00	148.92	237.44	0.00	
7	CA	140.92	243.44	10.00	10.00	0.00	0.00	140.92	243.44	0.00	
8	CA	140.92	246.78	10.00	10.00	0.00	0.00	140.92	246.78	0.00	
9	CA	148.92	243.44	10.00	10.00	0.00	0.00	148.92	243.44	0.00	
10	CA	148.92	246.78	10.00	10.00	0.00	0.00	148.92	246.78	0.00	
11	CA	140.92	256.27	10.00	10.00	0.00	0.00	140.92	256.27	0.00	
12	CA	148.92	256.27	10.00	10.00	0.00	0.00	148.92	256.27	0.00	
13	CA	140.92	252.78	10.00	10.00	0.00	0.00	140.92	252.78	0.00	
14	CA	148.92	252.78	10.00	10.00	0.00	0.00	148.92	252.78	0.00	
15	CA	154.59	256.27	10.00	10.00	0.00	0.00	154.59	256.27	0.00	
16	CA	160.25	256.27	10.00	10.00	0.00	0.00	160.25	256.27	0.00	
17	CA	163.92	256.27	10.00	10.00	0.00	0.00	163.92	256.27	0.00	
18	CA	169.59	256.27	10.00	10.00	0.00	0.00	169.59	256.27	0.00	
19	CA	175.42	256.27	10.00	10.00	0.00	0.00	175.42	256.27	0.00	
20	CA	181.25	256.27	10.00	10.00	0.00	0.00	181.25	256.27	0.00	
21	CA	190.25	256.27	10.00	10.00	0.00	0.00	190.25	256.27	0.00	
22	CA	194.75	256.33	10.00	10.00	0.00	0.00	194.75	256.33	0.00	
23	CA	216.92	235.61	10.00	10.00	0.00	0.00	216.92	235.61	0.00	
24	CA	216.92	232.94	10.00	10.00	0.00	0.00	216.92	232.94	0.00	
25	CA	216.92	232.94	10.00	10.00	0.00	0.00	216.92	232.94	0.00	
26	CA	216.97	230.61	10.00	10.00	0.00	0.00	216.97	230.61	0.00	
27	CA	216.87	227.94	10.00	10.00	0.00	0.00	216.87	227.94	0.00	
28	CA	185.84	210.61	10.00	10.00	0.00	0.00	185.84	210.61	0.00	
29	CA	185.76	256.26	10.00	10.00	0.00	0.00	185.76	256.26	0.00	
1	SA	178.89	177.84	25.00	25.00	180.00	0.00	178.89	175.09	0.00	
3	SA	210.79	284.53	25.00	25.00	0.00	0.00	210.79	287.28	0.00	
4	SA	140.51	284.53	25.00	25.00	0.00	0.00	140.51	287.28	0.00	
5	SA	271.80	176.24	25.00	25.00	270.88	0.00	269.05	176.29	0.00	
6	SB	75.81	254.66	25.00	25.00	90.00	0.00	78.56	254.66	0.00	
7	SB	75.81	180.77	25.00	25.00	90.00	0.00	78.56	180.77	0.00	
9	SB	272.97	257.69	25.00	25.00	270.80	0.00	270.22	257.69	0.00	
2	SC	302.80	161.38	25.00	25.00	189.93	0.00	303.28	158.67	0.00	
1	SD	191.05	343.15	25.00	25.00	270.00	0.00	188.30	343.15	0.00	
1	WD	221.13	194.07	7.50	7.50	225.74	0.00	220.78	193.72	0.00	

Schedule							
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp
SA	SA	4	Lithonia Lighting	DSX1 LED P6 40K 70CRI T5M MVOLT	D-Series Size 1 Area Luminaire P6 Performance Package 4000K CCT 70 CRI Type 5 Medium	1	21447
SB	SB	3	Lithonia Lighting	DSX1 LED P6 40K 70CRI T4M MVOLT HS	D-Series Size 1 Area Luminaire P6 Performance Package 4000K CCT 70 CRI Type 4 Medium Houseside Shield	1	17932
SC	SC	1	Lithonia Lighting	DSX1 LED P2 40K 70CRI LCCO MVOLT	D-Series Size 1 Area Luminaire P2 Performance Package 4000K CCT 70 CRI Left Corner Cutoff Extreme Backlight Control	1	7165
SD	SD	1	Lithonia Lighting	DSX1 LED P2 40K 70CRI RCOO MVOLT	D-Series Size 1 Area Luminaire P2 Performance Package 4000K CCT 70 CRI Right Corner Cutoff Extreme Backlight Control	1	7165
WD	WD	1	Lithonia Lighting	DSXW1 LED 10C 1000 40K T3M MVOLT - PIRIFIC3V	DSXW1 LED WITH (1) 10 LED LIGHT ENGINES, TYPE T3M OPTIC, 4000K, @ 1000mA.	1	3873
CA	CA	28	Lithonia Lighting	WP4 LED 30K4K50K MVOLT 90CRI 3000K	4" LED Wafer Selectable White MVOLT 30K4K50K 3000K	1	762

STATE ROAD 19



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
	02.27.2024	REVISED PER STARBUCKS KICK-OFF CALL COMMENTS

STARBUCKS
SHELL CONSTRUCTION

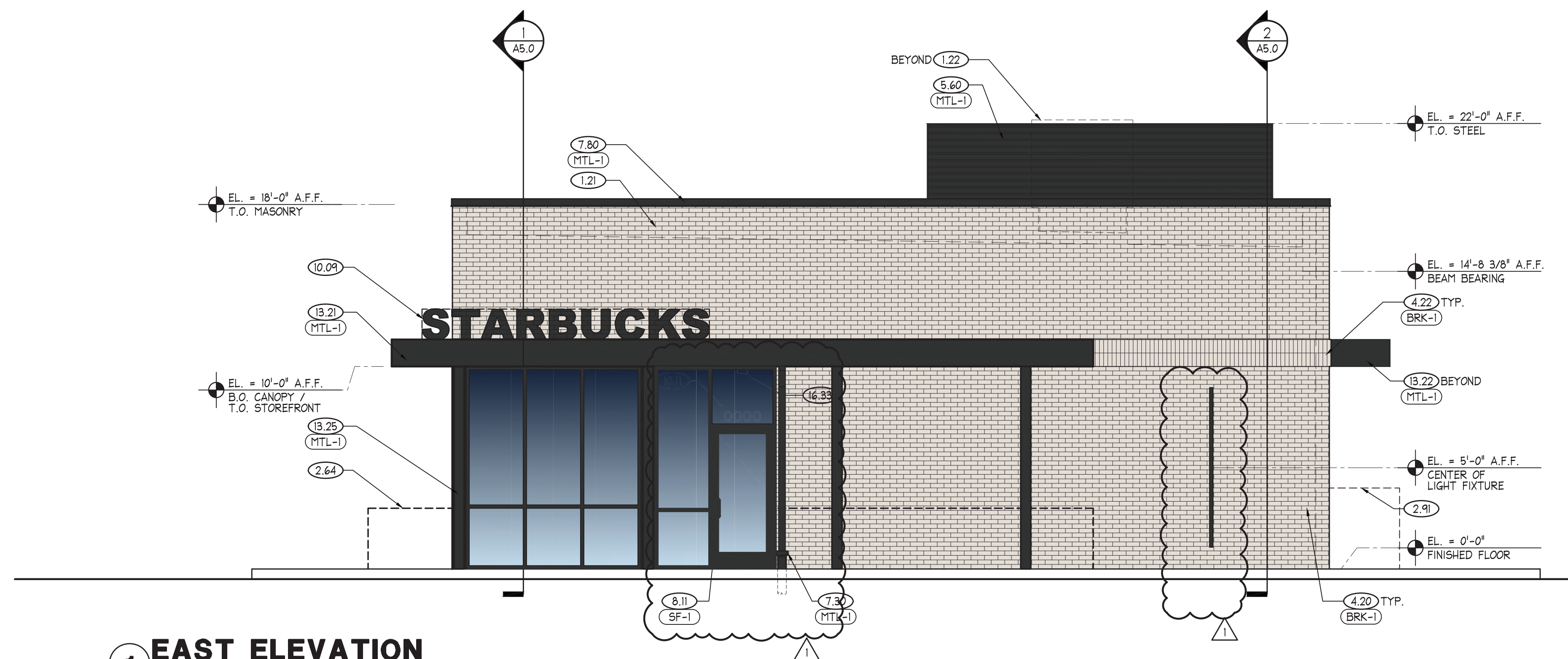
1990 STATE ROAD 19
TAVARES, FL

03.25.2024
date

24007
comm. no.

EXTERIOR ELEV. AND EXTERIOR FINISH SCHEDULE

A3.0



1 EAST ELEVATION

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



2 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

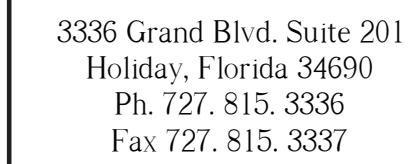
EXTERIOR FINISH SCHEDULE

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

4. WHERE FOAM TRIM, CORNICE MOLDING OR OTHER SHAPES ARE SPECIFIED, COMPONENTS SHALL BE AS MANUFACTURED BY "DRYVIT SHAPES BY AGROCORE" AND SHALL BE COMPRISED OF A TYPE I CLASSIFICATION EXPANDED POLYSTYRENE WRAPPED IN A FLEXIBLE IMPACT RESISTANT FIBERGLASS MESH AND COATED WITH A FACTORY APPLIED POLYMER MODIFIED, FLEXIBLE CEMENT COATING

1. WHERE PLASTER REVEALS ARE NOT PREFINISHED, REVEALS SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR UNLESS OTHERWISE NOTED
2. ALL EXPOSED, BUILDING MOUNTED UTILITIES AND CONDUITS SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACES UNLESS OTHERWISE NOTED

CEMENT PLASTER / EIFS FINISHES (ACRYLIC EIFS FINISH WITH INTEGRAL COLOR AND TEXTURE)				PAINT FINISHES			
TAG	MANUFACTURER	COLOR	DESCRIPTION	TAG	MANUFACTURER	COLOR	DESCRIPTION
(EF-1)	DRYVIT	MATCH SHERWIN WILLIAMS #SW7015 "REPOSE GRAY"	CUSTOM DRYVIT STRATOTONE COLOR	(PT-1)	SHERWIN WILLIAMS	SW#7015 "REPOSE GRAY"	
				METAL SOFFIT PANELS, TRIM, COPING, DOWNSPOUTS AND SCUPPERS			
BRICK				(MTL-1)	PAC-CLAD	"MATTE BLACK"	KYNAR 500
(BRK-1)	VEE BRICK CLASSICS	COLOR: "710 SEASHELL" MORTAR: SM330 "BURLYWOOD"		ALUMINUM STOREFRONT			
				(SF-1)	YKK	"BLACK"	
SIDING							
(SD-1)	NICHHA	VINTAGE WOOD "CEDAR"	CEMENTITIOUS SIDING				



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
	02.27.2024	REVISED PER STARBUCKS KICK-OFF CALL COMMENTS

STARBUCKS
SHELL CONSTRUCTION

1990 STATE ROAD 19
TAVARES, FL

03.25.2024
date

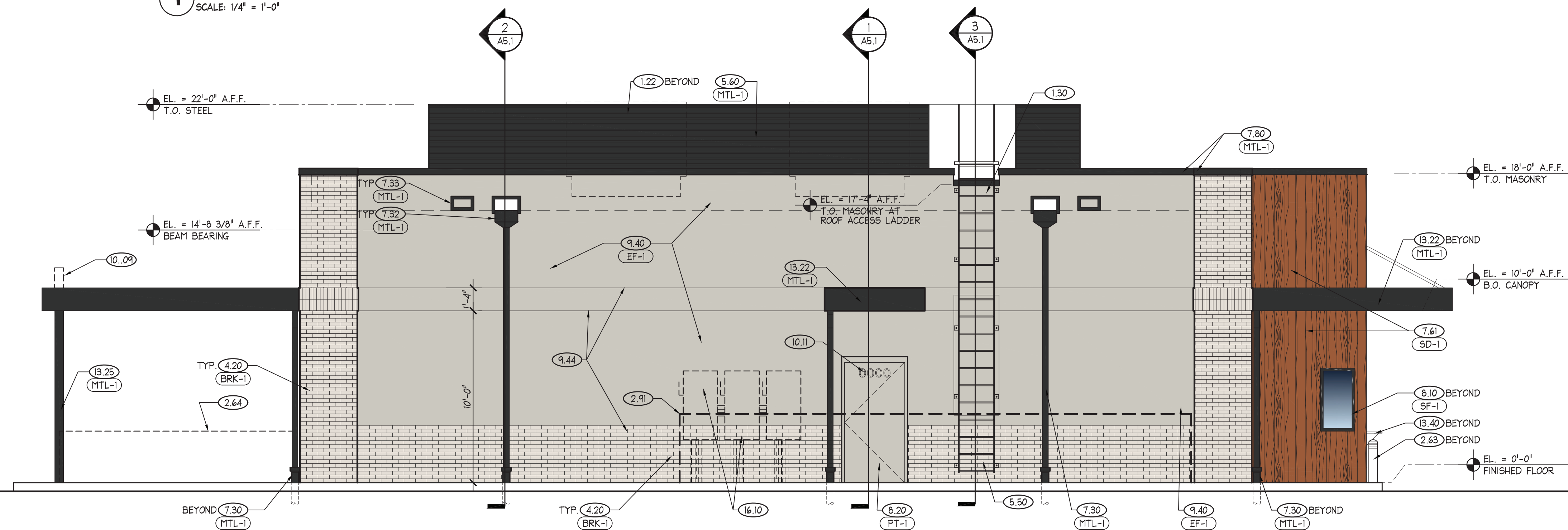
24007
comm. no.

EXTERIOR ELEVATIONS

A3.1



1 WEST ELEVATION



2 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

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.

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

EXTERIOR FINISH NOTES

EXTERIOR INSULATION FINISH SYSTEM (EIFS) REQUIREMENTS:

1. THE STANDARD FINISH COAT OVER CEMENT PLASTER SURFACES SHALL BE AN ACRYLIC EIFS FINISH COAT, "DRYVIT TAFTS" (OPTION 1) AS MANUFACTURED BY DRYVIT SYSTEMS, INC. COLORS, AS SPECIFIED ON THE EXTERIOR FINISH SCHEDULE, HAVE BEEN SELECTED FROM DRYVIT'S STANDARD COLORS. THIS SYSTEM CONSISTS OF A TINTED PRIMER AND TEXTURED ACRYLIC FINISH WITH INTEGRAL COLOR. THE SPECIFIED SYSTEM HAS A 10-YEAR MANUFACTURER WARRANTY

2. WHERE A CUSTOM COLOR IS REQUIRED FOR THE FINISH COAT OVER CEMENT PLASTER SURFACES, AN ACRYLIC EIFS FINISH COAT, "DRYVIT TAFTS" (OPTION 1) WITH STRATOTONE COLOR MATCHING SYSTEM AS MANUFACTURED BY DRYVIT SYSTEMS, INC. SHALL BE PROVIDED. CUSTOM COLORS ARE SPECIFIED ON THE EXTERIOR FINISH SCHEDULE. THIS SYSTEM CONSISTS OF A TINTED PRIMER AND TEXTURED ACRYLIC FINISH WITH INTEGRAL COLOR. THE SPECIFIED SYSTEM HAS A 5-YEAR MANUFACTURER WARRANTY

3. ALL FINISH COAT TEXTURES SHALL BE "SANDPEBBLE FINE" UNLESS OTHERWISE NOTED

4. WHERE FOAM TRIM, CORNICE MOLDING OR OTHER SHAPES ARE SPECIFIED, COMPONENTS SHALL BE AS MANUFACTURED BY "DRYVIT SHAPES BY AGROCORE" AND SHALL BE COMPRISED OF A TYPE I CLASSIFICATION EXPANDED POLYSTYRENE WRAPPED IN A FLEXIBLE IMPACT RESISTANT FIBERGLASS MESH AND COATED WITH A FACTORY APPLIED POLYMER MODIFIED, FLEXIBLE CEMENT COATING

5. ALL GENERAL CONTRACTOR BIDS SHALL INCLUDE THE ABOVE STATED SYSTEMS / PRODUCTS IN THEIR BASE BIDS. SUBSTITUTIONS WILL BE CONSIDERED FOR APPROVAL BUT ONLY IF FULLY QUALIFIED IN BIDS INCLUDING COMPLETE SYSTEM / PRODUCT SPECIFICATIONS AND ASSOCIATED COSTS

ALUMINUM COPING, DRIP EDGES, SCUPPERS AND DOWNSPOUT REQUIREMENTS:

1. ALL COMPONENTS SHALL BE PREFINISHED WITH A FACTORY APPLIED, KYNAR 500 FINISH OR MANUFACTURER EQUIVALENT. COLORS SHALL BE AS SPECIFIED FROM THE MANUFACTURER'S STANDARD COLOR OPTIONS

GENERAL:

1. WHERE PLASTER REVEALS ARE NOT PREFINISHED, REVEALS SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR UNLESS OTHERWISE NOTED

2. ALL EXPOSED, BUILDING MOUNTED UTILITIES AND CONDUITS SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACES UNLESS OTHERWISE NOTED

EXTERIOR FINISH SCHEDULE

CEMENT PLASTER / EIFS FINISHES
(ACRYLIC EIFS FINISH WITH INTEGRAL COLOR AND TEXTURE)

TAG	MANUFACTURER	COLOR	DESCRIPTION
(EF-1)	DRYVIT	MATCH SHERWIN WILLIAMS #SW7015 "REPOSE GRAY"	CUSTOM DRYVIT STRATOTONE COLOR
BRICK			
(BRK-1)	VEE BRICK CLASSICS	COLOR: "710 SEASHELL" MORTAR: S#B30 "BURLYWOOD"	
SIDING			
(SD-1)	NICHIHA	VINTAGE WOOD "CEDAR"	CEMENTITIOUS SIDING

PAINT FINISHES

TAG	MANUFACTURER	COLOR	DESCRIPTION
(PT-1)	SHERWIN WILLIAMS	SW#7015 "REPOSE GRAY"	
METAL SOFFIT PANELS, TRIM, COPING, DOWNSPOUTS AND SCUPPERS			
(MITL-1)	PAC-CLAD	"MATTE BLACK"	KYNAR 500
ALUMINUM STOREFRONT			
(SF-1)	YKK	"BLACK"	

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION