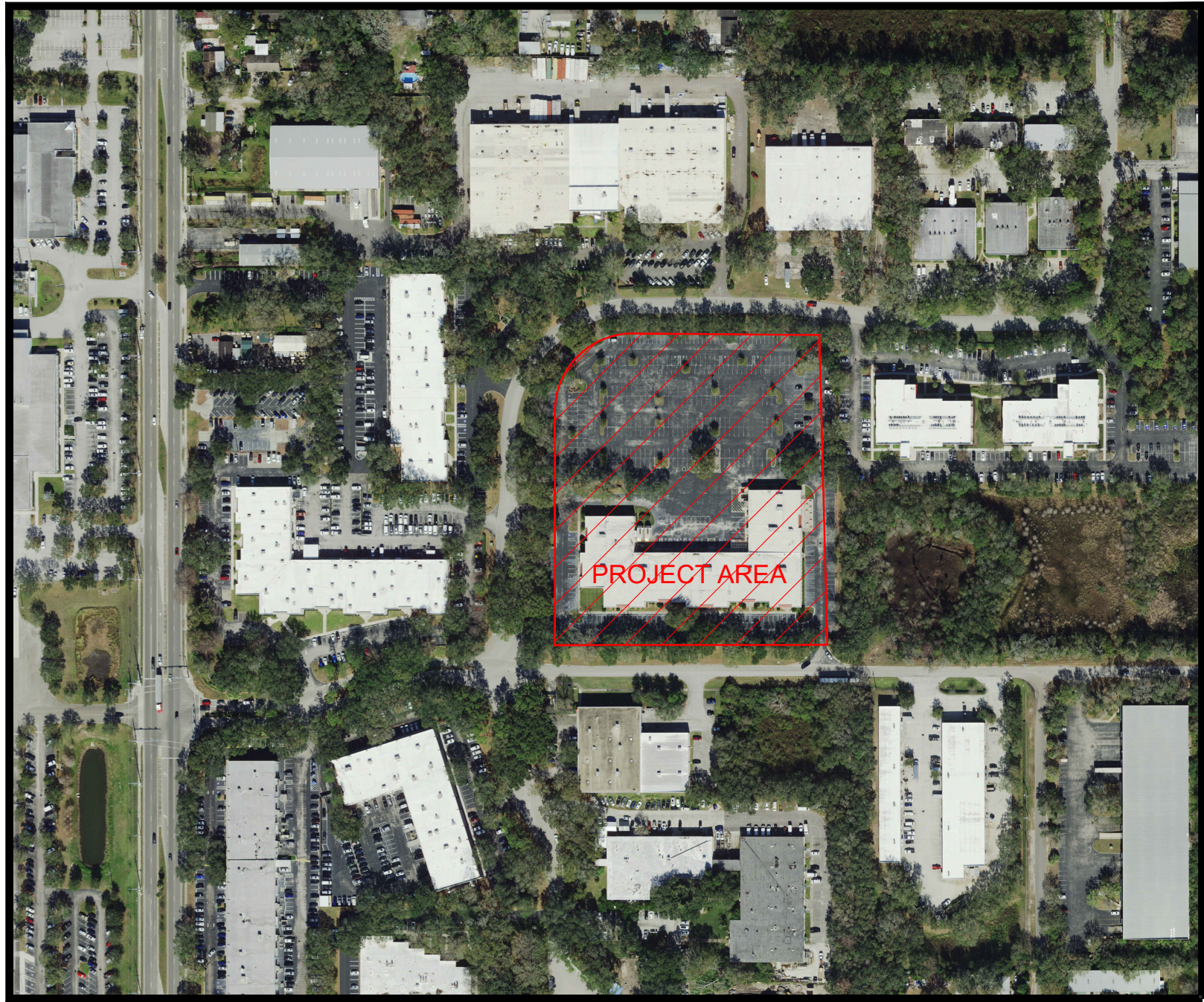


HCSO TRAINING ACADEMY

10210 WINDHORST ROAD

TAMPA, HILLSBOROUGH COUNTY, FLORIDA 33619



SITE AERIAL PHOTOGRAPH

N.T.S.



SITE LOCATION MAP

N.T.S.

FLOOD ZONE INFORMATION

PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), THE SITE IS LOCATED WITHIN FLOOD ZONE "X" (FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER: 12057C0379K, MAP REVISED 10/07/2021)

BOUNDARY AND TOPOGRAPHIC SURVEY

SURVEY INFORMATION PROVIDED BY: HILLSBOROUGH COUNTY GEOSPATIAL SERVICES DEPARTMENT
SIGNED AND SEALED BY: JOHN D. COLLINS, No. 5894
DATED: 10/09/2023

UTILITIES PROVIDERS

ELECTRICITY
TAMPA ELECTRIC COMPANY
702 NORTH FRANKLIN STREET
TAMPA, FLORIDA 33601
TEL: (813) 288-1111

SEWER
HILLSBOROUGH COUNTY WATER RESOURCES DEPARTMENT
332 NORTH FALKENBURG ROAD
TAMPA, FLORIDA 33619
TEL: (813) 272-6680

WATER
CITY OF TAMPA UTILITIES DEPARTMENT
306 EAST JACKSON STREET
TAMPA, FLORIDA 33602
TEL: (813) 274-8211

FIRE
HILLSBOROUGH COUNTY FIRE RESCUE
FIRE STATION # 9
3225 NORTH FALKENBURG ROAD
TAMPA, FLORIDA 33610
TEL: (813) 272-6600

GAS
TECO PEOPLES GAS
702 NORTH FRANKLIN STREET
TAMPA, FLORIDA 33601
TEL: (813) 275-3700

TELEPHONE
FRONTIER
610 EAST ZACK STREET
TAMPA, FLORIDA 33602
TEL: (800) 921-8101

CABLE
SPECTRUM
4400 DR MARTIN LUTHER KING JR BLVD
TAMPA, FLORIDA 33614
TEL: (877) 897-7333

CONTRACTOR SHALL CALL
"SUNSHINE STATE ONE CALL" OF FLORIDA AT 1-800-432-4770
A MINIMUM OF 2 AND A MAXIMUM OF 5 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION.

OWNER:

HILLSBOROUGH COUNTY
REAL ESTATE DEPT, PO BOX 1110
TAMPA, FLORIDA 33601
TEL: (813) 272-5810

ENGINEER:

HIGH POINT ENGINEERING, INC.
5005 W. LAUREL STREET, SUITE 201
TAMPA, FLORIDA 33607
TEL: (813) 644-8333
TEL: (813) 644-7000

SURVEYOR:

HILLSBOROUGH COUNTY, FLORIDA
GEOSPATIAL SERVICES DIVISION SURVEY
FIELD OFFICE
8420 SABAL INDUSTRIAL BLVD
TAMPA, FLORIDA 33619
TEL: (813) 307-1050

DEVELOPER:

HILLSBOROUGH COUNTY SHERIFF'S OFFICE
2310 N. FALKENBURG ROAD
TAMPA, FLORIDA 33619
TEL: (813) 247-8555

ARCHITECT:

HARVARD JOLLY/PBK ARCHITECTS
5201 W. KENNEDY BOULEVARD
TAMPA, FLORIDA 33609
TEL: (813) 286-6206

SITE DATA TABLE			
SECTION 17, TOWNSHIP 29 S, RANGE 20 E TAMPA, HILLSBOROUGH COUNTY, FLORIDA FOLIO: 065682-0050			
DESCRIPTION	EXISTING	PROPOSED	CODE REQUIREMENTS
ZONING:	"IPD-2 / M"	"IPD-2 / M"	"IPD-2 / M"
FUTURE LAND USE:	"UMU-20"	"UMU-20"	"UMU-20"
USAGE:	CALL CENTER	TRAINING ACADEMY	----
SITE AREA:	366,505.58 S.F. (8.41 AC.)	366,505.58 S.F. (8.41 AC.)	----
OFF-STREET PARKING:	601 SPACES	545 SPACES	----

DRAWING INDEX

SHEET No.	CONTENT
C-1	SITE DEVELOPMENT DATA
C-2.1	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
C-2.2	SITE CONSTRUCTION NOTES & SPECIFICATIONS
C-2.3	BOUNDARY & TOPOGRAPHIC SURVEY
C-3.1	DEMOLITION & TREE PROTECTION PLAN
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C-4.1	SITE LAYOUT & PARKING PLAN
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C-5.2	UTILITIES NOTES & SCHEDULES
C-6.1	SITE CONSTRUCTION NOTES AND DETAILS
C-6.2	UTILITY NOTES AND DETAILS
C-6.3	UTILITY NOTES AND DETAILS

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
BRAULIO GRAJALES, PE ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

58626
FL Registration No. Professional Engineer Sign Date

BRAULIO GRAJALES
Professional Engineer

PROJECT No: 25-010-HCS
ISSUE DATE: 6-23-25
DESIGNED BY: SP
DRAWN BY: SP
CHECKED BY: BG
APPROVED BY: JR

PROJECT: HCSO TRAINING ACADEMY
10210 WINDHORST ROAD
TAMPA, FLORIDA 33619

5005 W. Laurel Street, Suite 201
Tampa, Florida 33607
LAND PLANNING - CIVIL ENGINEERING - LANDSCAPE ARCHITECTURE

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BRAULIO GRAJALES
Professional Engineer

SHEET: C-1

25. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A FLORIDA REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER TO PERFORM ALL SITE CONSTRUCTION QUALITY ASSURANCE AND QUALITY CONTROL TESTING, AND THIS COST SHALL BE INCLUDED AS PART OF THE CONTRACT PRICE. IN LOCATIONS WHERE THE CONSTRUCTION TAKES PLACE WITHIN PUBLIC RIGHT-OF-WAY, ALL SAMPLING AND TESTING SHALL BE IN ACCORDANCE WITH FDOT AND LOCAL AGENCY REQUIREMENTS.

26. THE CONTRACTOR SHALL FORWARD TO THE OWNER A COPY OF ALL COMPACTION AND ASPHALT MIX TEST RESULTS. THE TEST RESULTS SHALL BE CERTIFIED BY A MATERIAL/GEOTECHNICAL ENGINEER, IN WRITING, THAT ALL TESTING REQUIREMENTS, REQUIRED BY CITY/COUNTY AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AS WELL AS BY THE APPROVED CONSTRUCTION PLANS, ARE SATISFIED.

27. DEVIATIONS TO THESE PLANS AND SPECIFICATIONS WITHOUT CONSENT OF THE ENGINEER OR THE OWNER MAY BE A CAUSE FOR THE WORK TO BE UNACCEPTABLE. VALUE ENGINEERING SHALL RECEIVE WRITTEN APPROVAL FROM THE ENGINEER AND THE OWNER.

28. THE CONTRACTOR SHALL PROVIDE CERTIFIED AS-BUILT DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE AS-BUILT DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO, ACCURATE HORIZONTAL AND VERTICAL LOCATION OF DETENTION / RETENTION BASIN(S) INCLUDING TOP OF BANK, TOE OF SLOPE, BOTTOM OF POND AND SIDE SLOPES, CONTROL STRUCTURE(S), DIMENSION AND INVERT ELEVATION OF WEIR, ORIFICE AND SKIMMER, INLET AND MANHOLE SIZES AND STORM PIPE INVERT ELEVATIONS, SIZE AND LOCATIONS OF ALL UTILITIES INCLUDING SANITARY SEWER AND WATER PIPES AND FITTINGS, STORM AND SANITARY SEWER SLOPES, CONCRETE PADS, SIDEWALKS, FINISHED FLOOR ELEVATION(S), GRADE BREAKS, ETC. THE CONTRACTOR SHALL PROVIDE FIVE COPIES OF THE CERTIFIED AS-BUILT DRAWINGS TO THE ENGINEER. THE AS-BUILT DRAWING SHALL BE SUFFICIENT IN DETAIL TO BE ACCEPTABLE BY GOVERNMENTAL AND REGULATORY AGENCIES HAVING JURISDICTION ON THE PROJECT.

29. CONTRACTOR SHALL PROVIDE SANITARY SEWER AND WATER MAIN SYSTEMS CERTIFIED AS-BUILT DRAWINGS INCLUDING SANITARY SEWER INFILTRATION / EXFILTRATION TEST RESULTS, WATER MAIN PRESSURE TEST RESULTS AND TWO (2) CONSECUTIVE DAYS BACTERIOLOGICAL SAMPLING RESULTS AT LEAST SIX (6) WEEKS PRIOR TO ANTICIPATED DATE OF CERTIFICATE OF COMPLETION APPLICATION.

30. SIGN MONUMENTS, WALLS AND FENCES REQUIRE SEPARATE PERMIT APPLICATION(S). ANY DEVIATIONS SHALL RECEIVE WRITTEN APPROVAL FROM THE OWNER.

31. WHEN NECESSARY, CONTRACTOR SHALL BE RESPONSIBLE FOR AN EASEMENT INSPECTION BY CITY/COUNTY ENGINEERING DEPARTMENT PRIOR TO CONCRETE POUR OF FOOTER/SLAB. CONTRACTOR SHALL STAKE ALL PROPERTY CORNERS AND EASEMENT LINES PRIOR TO EASEMENT INSPECTION.

32. ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF THE FLORIDA FIRE PREVENTION CODE, WHICH INCLUDES THE LATEST EDITIONS OF THE N.F.P.A. #1 FIRE PREVENTION CODE & 101 THE LIFE SAFETY CODE.

33. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES.

1. THESE CONSTRUCTION PLANS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY IN ACCORDANCE WITH U.S. DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR MEANS, METHODS, PROCEDURES AND TECHNIQUES OF CONSTRUCTION SAFETY.

2. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET BY THE U.S. DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

3. DURING CONSTRUCTION, ALL SAFETY CONTROLS AND REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PEDESTRIANS AND WORKERS.

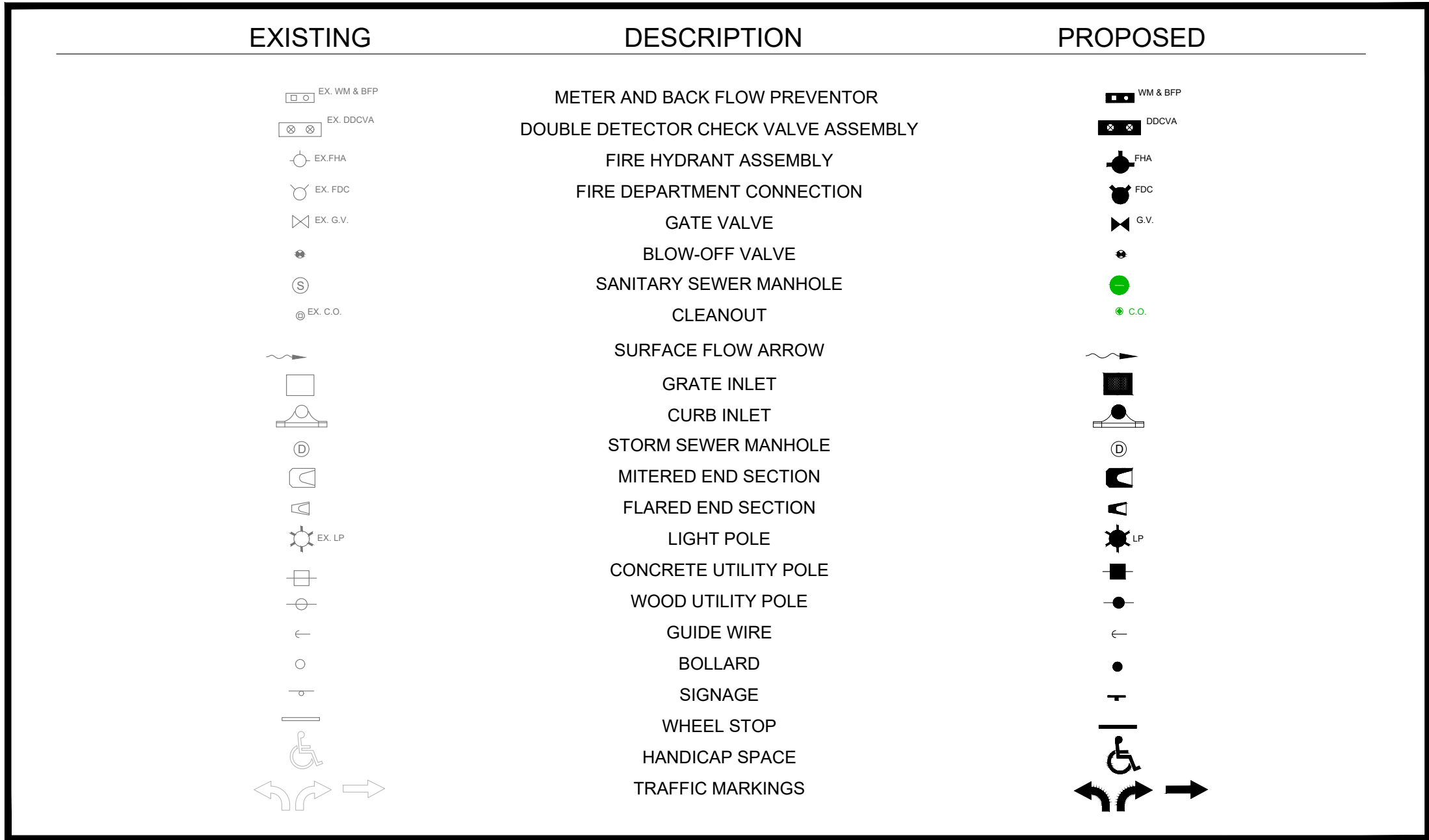
4. THE MINIMUM STANDARDS IN "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED FOR THE DESIGN, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PEDESTRIANS AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.

5. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED AND APPROVED BY APPLICABLE AGENCIES PRIOR TO START OF CONSTRUCTION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT THEY COMPLY WITH ALL APPLICABLE SAFETY REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL U.S. DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS.

7. THE CONTRACTOR PERFORMING TRENCH EXCAVATION, IN EXCESS OF 5' FEET IN DEPTH, SHALL CONFORM TO THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS FOR EXCAVATIONS SAFETY STANDARDS, 29 C.F.R., § 1926.650, SUBPART P, INCLUDING ALL SUBSEQUENT REVISIONS OR UPDATES TO THE STANDARDS AS ADOPTED BY THE DEPARTMENT OF LABOR AND EMPLOYMENT SECURITY (DLES).

8. TO COMPLY WITH THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES, AFFILIATED OR NOT AFFILIATED TO THE "SUNSHINE STATE ONE CALL" OF FLORIDA CORPORATION, PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS AND/OR CLEARANCE OF EXISTING UNDERGROUND UTILITIES.



EXISTING		PROPOSED
	PROPERTY LINE	
	CENTER LINE	
	EDGE OF PAVEMENT	
	WALL	
	WOOD FENCE	
	CHAIN LINK FENCE	
	BARB WIRE FENCE	
	SILT FENCE	
	LOT LINE	
N/A	POND TOP OF BANK	
XX.XX'	RIGHT OF WAY LINE	XX.XX'
	SECTION LINE	
	STORM SEWER LINE	ST
EX. ST	CABLE TV LINE	CATV
EX. CATV	FIBER OPTIC LINE	FO
EX. FO	TELEPHONE LINE	TEL
EX. TEL	ELECTRIC LINE	ELE
EX. ELE	OVERHEAD POWER LINE	OHP
EX. OHP	UNDERGROUND POWER LINE	UGP
EX. UGP	RECLAIMED WATER LINE	REC
EX. REC	IRRIGATION WATER LINE	IRR
EX. IRR	FIRE LINE	FIRE
EX. FIRE	POTABLE WATER LINE	WM
EX. WM	SANITARY SEWER LINE	SAN
EX. SAN	FORCE MAIN LINE	FM
EX. FM	GAS LINE	GAS
EX. GAS	EASEMENT LINE	
JD JD JD JD	WETLAND LINE	JD JD JD JD
FLOOD FLOOD	FLOOD ZONE LINE	N/A
75	CONTOUR LEVEL	75
EX. R.L.	RIDGE LINE	R.L.
	BASILN LINE	

UNITS OF MEASURE

[illegible]

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
BRAULIO GRAJALES, PE ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

58626 BRAULIO GRAJALES
FL Registration No. Professional Engineer Sign Date
COPY OF THIS PLAN IS NOT VALID UNLESS SIGNED, SEALED AND DATED
BY THE PROFESSIONAL ENGINEER

CONTENT: GENERAL NOTES, SYMBOLS & ABBREVIATIONS

HCSO TRAINING ACADEMY

10210 WINDHORST ROAD
TAMPA, FLORIDA 33619

HP

Certificate of Authorization No. 30275

5005 W. Laurel Street, Suite 201
Tampa, Florida 33607
Tel. (813) 644-8333
Tel. (813) 644-7000

SHEET:

C-2.1

ITEM	TEST	TEST FREQUENCY
UTILITY TRENCH BACKFILL OVER PIPELINES AND AROUND STRUCTURES FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE AND IN STRUCTURAL AREAS	OPTIMUM MOISTURE / MAXIMUM DRY DENSITY OF SOIL (PROCTOR) AS DETERMINED BY AASHTO T-180 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER SOIL TYPE (SEE NOTES 1 AND 2)
UTILITY TRENCH BACKFILL OVER PIPELINES OUTSIDE THE RIGHT-OF-WAY AND IN NON-STRUCTURAL AREAS	OPTIMUM MOISTURE / MAXIMUM DRY DENSITY 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER SOIL TYPE (SEE NOTES 1 AND 2)
STABILIZED SUB GRADE	OPTIMUM MOISTURE / MAXIMUM DRY DENSITY MINIMUM LBR 40 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70). NO TOLERANCE	PER MATERIAL TYPE PER MATERIAL TYPE (SEE NOTE 3)
BASE (OTHER THAN SOIL CEMENT OR CRUSHED CONCRETE)	DRY MOISTURE / MAXIMUM DRY DENSITY MINIMUM LBR 100 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) - NO TOLERANCE GRADATION, ATTERBERG LIMITS	PER SOURCE PER SOURCE EACH LIFT (SEE NOTE 3) PER SOURCE
CRUSHED CONCRETE BASE	MINIMUM LBR 150 ABRASION TEST BY USING LOS ANGELES MACHINE AS DETERMINED BY FM-T1096 100% OF MAXIMUM DRY DENSITY AS DETERMINED BY FM 5-615. NO TOLERANCE GRADATION, ATTERBERG LIMITS	PER MATERIAL TYPE PER MATERIAL TYPE EACH LIFT (SEE NOTE 3) PER SOURCE
SOIL CEMENT BASE (NO IN PLACE MIXING ALLOWED)	DESIGN MIX AS DETERMINED BY PORTLAND CEMENT ASSOCIATION SPECIFICATIONS OPTIMUM MOISTURE / MAXIMUM DRY DENSITY PROCTOR AS DETERMINED BY AASHTO T-134 COMPRESSIVE STRENGTH SPECIMENS AS DETERMINED BY PORTLAND CEMENT ASSOCIATION SPECIFICATIONS (300 PSI AT 7 DAYS), (SEE NOTE 4) TEST CORES AS DETERMINED BY PORTLAND CEMENT ASSOCIATION SPECIFICATIONS (300 PSI AT 21 DAYS), (SEE NOTE 4) 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T134 - NO TOLERANCE	ONE PER MATERIAL TYPE ONE PER MATERIAL TYPE DAILY ONE PER MATERIAL TYPE ONE SET OF 3 SAMPLES PER MATERIAL TYPE PER ONE-HALF DAY (SEE NOTE 3) (SEE NOTE 3)
CONCRETE (SEE NOTE 5)	SLUMP TEST COMPRESSIVE STRENGTH CYLINDERS (MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 3,000 PSI), NO TOLERANCE AIR CONTENT	ONE PER SET OF CYLINDERS ONE SET OF THREE (3) CYLINDERS FOR 100 CY OR FRACTION THEREOF ONE PER SET OF CYLINDERS
ASPHALTIC CONCRETE	AGGREGATE ANALYSIS DESIGN MIX BITUMEN CONTENT GRADATION STABILITY FLOW PROPERTIES OF IN-PLACE MATERIALS (MARSHALL TEST) THICKNESS MAXIMUM SPECIFIC GRAVITY 95% OF LAB DENSITY	ONE PER DESIGN ONE PER FDOT APPROVED TYPE ONE PER DAY UNLESS TONNAGE > 1,000 TON ONE PER DAY ONE PER DAY (SEE NOTE 3) ONE PER DAY (SEE NOTE 3)

- | | |
|---|---|
| 1. TESTS SHALL BE LOCATED NO MORE THAN 200 FEET APART. TESTS SHALL BE PERFORMED ON EACH LIFT. FIELD DENSITIES SHALL BE TAKEN OVER ALL ROAD CROSSINGS. FIELD DENSITIES FOR SANITARY LINES SHALL BE STAGGERED TO INCLUDE RESULTS OVER SERVICE LATERALS. THERE SHALL BE A MINIMUM OF ONE (1) TEST SERIES FOR EACH LIFT OF 6 INCH OR DEEPER MANHOLES. TESTS AROUND ROAD STRUCTURES SHALL BE SPIRALLED IN 6 INCH LIFTS. TESTS AROUND BOX CULVERTS SHALL DONE ON BOTH SIDES EVERY LIFT. | 3. TESTS SHALL BE LOCATED NO MORE THAN 500 FEET APART. THERE SHALL BE NO LESS THAN ONE (1) TEST PER 5,000 SF. |
| 2. FOR FLEXIBLE PIPE (CORRUGATED STEEL OR ALUMINUM), 95% OF MAXIMUM DENSITY (AASHTO-T99) PER FOOT SUPPLEMENTAL SPECIFICATIONS SUB ARTICLE 125-8.3.2 AS MODIFIED. | 4. MAXIMUM STRENGTH LIMITS, AS ESTABLISHED BY SOLS TESTING COMPANY, SHALL NOT BE EXCEEDED. |
| | 5. APPLIES TO SITE CONCRETE SUCH AS CURBS, DRIVEWAYS, PADS AND SIDEWALKS. |

1. PRIOR TO SITE CLEARING AND GRUBBING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE CITY / COUNTY TREE ORDINANCE AND DETAILS CONTAINED IN THESE SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CONDITION. NO TREES SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER.
2. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT. COPIES OF THE GEOTECHNICAL INVESTIGATION REPORT ARE AVAILABLE AT THE OFFICE OF THE CITY ENGINEER. THE CONTRACTOR SHALL SUBMIT A LETTER TO THE CITY ENGINEER WITH THE GEOTECHNICAL INVESTIGATION REPORT ARE TO BE DIRECTED TO THE GEOTECHNICAL ENGINEERING COMPANY THAT PREPARE THE REPORT.
3. THE CONTRACTOR SHALL CLEAR AND GRUB, ONLY THOSE AREAS OF THE SITE NEEDED FOR CONSTRUCTION, DISTURBED AREAS, AND/OR SECTION REMOVED, OR PLANTED WITH APPROVED LANDSCAPE MATERIAL IMMEDIATELY AFTER CONSTRUCTION.
4. UNLESS OTHERWISE DIRECTED, THE MULD 4" TO 6" OF SOIL REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER TO BE USED FOR LANDSCAPING PURPOSES.
5. ONLY GRADING BY HAND IS PERMITTED WITHIN THE CANOPY / DRIP LINE OF TREES TO REMAIN.

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) SHALL BE EXCAVATED IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS OR AS DIRECTED BY THE OWNER, OR THE GEOTECHNICAL ENGINEER. DELETERIOUS MATERIAL SHALL BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS SHALL BE BACK FILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING OR SHORING TO PREVENT COLLAPSE. PROTECTIVE METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
3. CONTRACTOR SHALL SAW CUT, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
4. CONTRACTOR SHALL PROVIDE EROSION CONTROL AND SEDIMENTATION BARRIERS TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER OR EXIT THE SITE. EXCESSIVE TRAFFIC AND EXCESSIVE TRUCK TRAILER WEIGHTS, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR SHALL REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR CITY / COUNTY AUTHORITIES.
5. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.
6. THE CONTRACTOR SHALL STABILIZE BY SEED AND MULCH, SOD OR OTHER APPROVED MATERIALS AS REQUIRED BY ANY DISTRICT OR CITY ORDER. CONTRACTOR SHALL MAINTAIN THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING APPLICABLE SOIL AND MATERIAL TESTING AND SUBMITTING TEST RESULTS TO OWNER'S ENGINEER ON A WEEKLY BASIS. SOIL TESTS ARE REQUIRED PURSUANT WITH THE TESTING SCHEDULE REQUIRED BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THIS SITE. FOR EACH TEST OF 12" OR GREATER DEPTH, THE CONTRACTOR SHALL SUBMIT TO THE OWNER CERTIFICATIONS SIGNED BY THE MATERIAL / GEOTECHNICAL ENGINEER STATING THAT ALL SOIL AND MATERIAL REQUIREMENTS HAVE BEEN MET.
8. A QUALIFIED TESTING LABORATORY SELECTED BY THE OWNER SHALL PERFORM ALL TESTS NECESSARY TO ASSURE COMPLIANCE OF THE IN PLACE MATERIALS AS REQUIRED BY THESE CONSTRUCTION DOCUMENTS AND THE VARIOUS AGENCIES HAVING JURISDICTION OVER THIS SITE. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR SHALL BEAR ALL COSTS OF SAID RETESTING.
9. MIXING IN PLACE OF SOIL CEMENT SHALL NOT BE ALLOWED.
10. THE CONTRACTOR SHALL INSTALL EXTRA BASE MATERIAL WHEN THE DISTANCE BETWEEN THE PAVEMENT SURFACE AND THE TOP OF THE PIPE OR BELT IS LESS THAN TWENTY (12) INCHES.
11. ON-SITE PAVEMENT SHALL CONSIST OF 2" ASPHALT (TYPE SP-9.5) ON 6" LIMEROCK (100 LBR) OR CRUSHED PORTLAND CEMENT CONCRETE (150 LBR) BASE COMPACTED TO 98% OF MAXIMUM DENSITY FROM MODIFIED PROCTOR TEST PER ASTM D1557 / AASHTO 180. MAXIMUM DENSITY FROM MODIFIED PROCTOR TEST PER ASTM D1557 / AASHTO 180.
12. CITY / COUNTY RIGHT-OF-WAY PAVEMENT SHALL CONSIST OF 1.5" FRICTION COURSE (TYPE FC-12.5) OVER 2" ASPHALT (TYPE SP-9.5) ON 12" LIMEROCK (100 LBR) OR CRUSHED PORTLAND CEMENT CONCRETE (150 LBR) BASE COMPACTED TO 100% OF MAXIMUM DENSITY FROM MODIFIED PROCTOR TEST OR 9" ASPHALT (TYPE SP 12) OVER 12" LIMEROCK (100 LBR) OR CRUSHED PORTLAND CEMENT CONCRETE (150 LBR) BASE COMPACTED TO 100% OF MAXIMUM DENSITY FROM MODIFIED PROCTOR TEST PER ASTM D1557 / AASHTO 180, UNLESS OTHERWISE SPECIFIED.

- UTILITIES SUCH AS FLORIDA POWER & LIGHT UNDERGROUND POWER CABLES, TECO PEOPLES GAS LINES, FRONTIER COMMUNICATION CABLES AND SPECTRUM COMMUNICATION CABLES, HILLSBOROUGH COUNTY PUBLIC UTILITIES POTABLE AND RECLAIMED WATER MAINS, HILLSBOROUGH COUNTY PUBLIC UTILITIES SANITARY SEWER LINES, ETC ARE BELIEVED TO BE WITHIN RIGHTS-OF-WAY AND MAY CONFLICT WITH THE PROPOSED UTILITY WORK. THERE IS NO GUARANTEE THAT THESE UTILITIES ARE LOCATED AS SHOWN OR THAT OTHER UTILITIES MAY NOT BE PRESENT, THE CONTRACTOR IS FULLY RESPONSIBLE WHEN USING THE INFORMATION CONTAINED IN THESE PLANS AND SHALL CONDUCT STUDIES, TESTS AND SURVEYS AS DEEMED NECESSARY TO MAKE THEIR OWN DETERMINATION AS TO THE ACTUAL VERTICAL AND HORIZONTAL LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF CONSTRUCTION.
3. TO PREVENT DAMAGE TO UNDERGROUND UTILITIES AND DISRUPTION OF SERVICES, THE CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, DEPTH, INVERT ELEVATION AND LOCATION OF ALL UTILITIES PRIOR TO START OF CONSTRUCTION, TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL PHYSICALLY EXPOSE ALL UTILITIES USING NONDESTRUCTIVE METHODS (I.E. VACUUM EXCAVATION).
4. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH OWNERS' ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A REGISTERED LAND SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL BE PRODUCED WITH AND UPON COMPLETION, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH DISKS OF ALL DRAWINGS, ONE SET OF REPRODUCIBLE PLANS, AND FIVE SETS OF PLANS. THE "AS-BUILT" INFORMATION SHALL CLEARLY AND ACCURATELY REPRESENT ALL CONSTRUCTED ITEMS INCLUDING, BUT NOT LIMITED TO:
- A. ELEVATIONS OF ALL STORM SEWER OUTFALL STRUCTURES AND SANITARY SEWER STRUCTURE BOTTOMS, TOPS, AND INVERTS.
 - B. FIELD MEASURED LENGTHS OF PIPES FOR ALL INSTALLED UTILITIES, CONDUITS, SLEEVES, ETC.
 - C. LOCATIONS OF ALL STRUCTURES, PIPES, CONDUITS, SLEEVES, ETC.
 - D. CALCULATED SLOPE OF ALL SANITARY SEWER AND STORM SEWER LINES.
 - E. HORIZONTAL AND VERTICAL CONTROL OF ALL WATER MAIN FITTINGS AND APPURTENANCES, AND HORIZONTAL AND VERTICAL CONTROL ON THE TOP OF WATER MAINS AT ALL CROSSINGS, AND A MINIMUM OF EVERY 200 LINEAL FEET OF PIPE.
 - F. HORIZONTAL AND VERTICAL CONTROL OF ALL TOP OF BANKS, TOE OF SLOPES, ALL GRADE BREAKS, BUILDINGS, PONDS, DITCHES, LITTORAL ZONES, ETC.
5. NO ENGINEER'S CERTIFICATIONS CAN BE SUBMITTED TO OBTAIN A CERTIFICATE OF OCCUPANCY UNTIL THE "AS-BUILT" INFORMATION IS RECEIVED, REVIEWED, AND APPROVED BY THE ENGINEER. THE OWNER SHALL BE REQUIRED TO SUBMIT THE INFORMATION ONE WEEK TO COMPLETE THE REVIEW OF THE "AS-BUILT" INFORMATION UPON RECEIPT, PRIOR TO SUBMITTAL TO APPLICABLE AGENCIES.

1. ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE AGENCY STANDARDS AND SPECIFICATIONS.
2. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
3. POINTS OF CONNECTION FOR THE SANITARY SEWER WORK LINES SHALL BE COORDINATED WITH THE BUILDING PLUMBING PLANS. SANITARY SEWER CONNECTION LOCATIONS SHOWN ON THESE CONSTRUCTION DOCUMENTS ARE APPROXIMATE.
4. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW SANITARY SEWER LINES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES NEAR THE POINT OF CONNECTION AND NOTIFY OWNERS OF ANY EXISTING UTILITIES WITHIN TWO FEET OF THE PROPOSED WORK. THE CONTRACTOR SHALL NOTIFY ENGINEER AND THE APPLICABLE AGENCIES AT LEAST 48 HOURS IN ADVANCE OF SCHEDULED WORK.
5. SANITARY / STORM SEWERS, SANITARY / STORMWATER FORCE MAINS AND RECLAIMED WATER MAINS SHOULD ALWAYS CROSS UNDER WATER MAINS. EXISTING OR PROPOSED SANITARY / STORMWATER SEWERS, SANITARY / STORMWATER FORCE MAINS AND RECLAIMED WATER MAINS SHALL BE INSTALLED AT LEAST 6 INCHES ABOVE THE EXISTING WATER MAINS. THE MINIMUM VERTICAL DISTANCE OF 12 INCHES EXCEPT FOR GRAVITY OR VACUUM-TYPE SANITARY SEWER AND STORM SEWER, THEN 6 INCHES IS THE MINIMUM SEPARATION AND 12 INCHES IS PREFERRED, BETWEEN EXISTING WATER MAINS AND SANITARY / STORMWATER SEWERS, SANITARY / STORMWATER FORCE MAINS AND RECLAIMED WATER MAINS. WHERE SANITARY / STORMWATER FORCE MAINS AND RECLAIMED WATER MAINS MUST CROSS WATER MAINS WITH LESS THAN 12 INCHES OF VERTICAL DISTANCE, BOTH THE SANITARY / STORMWATER FORCE MAINS AND RECLAIMED WATER MAINS, AND THE WATER MAINS SHALL BE INSTALLED WITHIN 6 INCHES OF THE CROSSING. DIP IS NOT REQUIRED IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED, SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN SHALL BE 10 FEET FROM THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SANITARY / STORMWATER FORCE MAINS AND RECLAIMED WATER MAINS PIPE CROSS OVER THE WATER MAINS. THE WATER MAINS ARE EQUIQUANT FROM THE POINT OF CROSSING (PIES CROSSED ON THE CROSSING).
6. A MINIMUM 6-FOOT, AND PREFERABLY 10-FOOT, HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 6-FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EXISTING UTILITY. IF THE SEWER AND WATER MAINS ARE INSTALLED IN THE SAME TRENCH, THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER, WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 6 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE SEWER SHALL BE CONSTRUCTED OF DIP. IF THE SEWER AND WATER MAINS ARE INSTALLED IN THE SAME TRENCH, THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER, WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 6 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE SEWER SHALL BE CONSTRUCTED OF DIP. IF THE SEWER AND WATER MAINS ARE INSTALLED IN THE SAME TRENCH, THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER, WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 6 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE SEWER SHALL BE CONSTRUCTED OF DIP.
7. ALL SANITARY SEWER FORCE MAINS, LATERALS AND SEWER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER, UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DRAWINGS.
8. ALL SANITARY SEWER COVERS SHALL BE TRAFFIC RATED FOR ASHTO HS-20 TRUCK LOADING.

- A. WATER SERVICE SHALL BE PROVIDED BY THE CITY OF TAMPA.
- B. ALL WORK TO BE PERFORMED ON EXISTING OR ON FUTURE WATER FACILITIES TO BE OWNED AND MAINTAINED BY THE CITY OF TAMPA SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AWWA WATER MOUNTED VALVE STANDARD AND ALL CONSULTING DETAILS AND STANDARDS DESCRIBED THERE WITHIN SHALL BE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.
- C. THE WATER MAINS TO BE OWNED AND MAINTAINED BY THE CITY OF TAMPA SHALL BE COORDINATED WITH THE CITY OF TAMPA CONSTRUCTION ENGINEERING & INSPECTIONS DIVISION (CEI) PRIOR TO THE START OF CONSTRUCTION. A MEETING MAY BE SCHEDULED BY EMAILING CAD-DEVELOPER@TAMPAOVNET A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. DATE, TIME, LOCATION AND SCHEDULE THE MEETING WITH THE CITY. THE EMAIL MUST HAVE "REQUEST PRECON FOR UTL-XXX-XXXXXXX" IN THE SUBJECT LINE FOR THE EMAIL TO BE FORWARDED TO THE CORRECT STAFF MEMBERS. IF YOU DO NOT RECEIVE A RESPONSE TO YOUR EMAIL REQUEST AFTER 3 DAYS, THEN CONTACT THE CITY OF TAMPA.
- D. PRIOR TO THE PRE-CONSTRUCTION MEETING WITH THE CITY OF TAMPA REGARDING THE PUBLIC WATER FACILITIES, THE CONTRACTOR SHALL OBTAIN THE LATEST EDITION OF THE CITY OF TAMPA CONSTRUCTION DEPARTMENT DATA PACKAGE, WHICH INCLUDES ALL SCHEDULED PUBLIC FACILITIES, INCLUDING CONSTRUCTION, MATERIALS, AND WORKSMANSHIP, ARE TO CONFORM WITH THE SPECIFICATIONS OUTLINED IN THE DEPARTMENT'S TECHNICAL MANUAL. IN THE EVENT OF A DISCREPANCY, THE MOST STRINGENT CRITERIA SHALL APPLY.
- E. THE CONTRACTOR SHALL MAINTAIN ADEQUATELY STAKED AND NECESSARY TO MAINTAIN PROPER ALIGNMENT. JOINT DEFLECTIONS SHALL BE IN ACCORDANCE WITH AWWA C-600 (LATEST EDITION) EXCEPT DEFLECTIONS ALLOWED SHALL BE LESS 80% OF THE DEFLECTION VALUES GIVEN IN THE AWWA DEFLECTION TABLE.
- F. WORK ON EXISTING CITY OF TAMPA WATER MAINS ARE TO BE OPERATED BY CITY PERSONNEL ONLY.
- G. FIRE HYDRANT ASSEMBLIES TO BE OWNED AND MAINTAINED BY THE CITY SHALL BE 5" X 12".
- H. ALL FIRE HYDRANT ASSEMBLIES AND FIRE LINE DOUBLE DETECTOR CHECK VALVES WHICH ARE NOT OWNED BY THE CITY SHALL BE THE PROPERTY OF THE CONTRACTOR.
- I. FOR ANY NEW, ADJUSTED, OR RELOCATED FIRE HYDRANT ASSEMBLY, HYDRANT EXTENSIONS ARE NOT PERMITTED. FIRE HYDRANT ASSEMBLY INSTALLATIONS MUST CONFORM WITH THE CITY OF TAMPA CONSTRUCTION DEPARTMENT DATA PACKAGE. IF THE CITY OF TAMPA ASSEMBLY IS NOT PROPERLY SIZED, A NEW HYDRANT MUST BE ORDERED AT THE DEVELOPER'S EXPENSE.
- J. THE DEVELOPER SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING PUBLIC WATER SERVICE MAINS LONGER TO SERVING THE PARCEL. THESE SERVICE LINES ARE TO BE REMOVED, AND CUT & CAPPED AT THE PUBLIC WATER MAIN BY THE DEVELOPER.
- K. THE DEVELOPER SHALL INSTALL AND TEST ALL BACKFLOW PREVENTION ASSEMBLIES(IES) IN ACCORDANCE WITH THE CITY'S CROSS CONNECTION CONTROL AND PREVENTION MANUAL. A. ALL BACKFLOW PREVENTION ASSEMBLIES(IES) SHALL BE INSTALLED IN THE MAIN LINE OF OCCUPANCY SHALL REMAIN UNTIL THE INSTALLATION OF THE ASSEMBLY(IES) ARE INSPECTED AND APPROVED BY THE WATER DEPARTMENT TO SCHEDULE AN INSPECTION OF THE ASSEMBLY(IES). THE CONTRACTOR SHALL CONTACT THE FIELD QUALITY SECTION AT (813) 231-5286 OR FIELDQUALITY@TAMPAOVNET.
- L. THE RELIEF VALVE OF ANY INSTALLED REDUCED PRESSURE PRINCIPLE ASSEMBLY SHALL BE INSTALLED A MINIMUM OF 12 INCHES ABOVE THE GRADE OR THE FLOODPLAIN ELEVATION. THE VALVE SHALL BE HIGHER. THE INSTALLATION SHALL BE MADE SO THAT NO PART OF THE UNIT CAN BE SUBMERGED.

- A. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES AND SHALL MAINTAIN A MINIMUM OF THREE (3) FEET HORIZONTAL SEPARATION FROM OTHER UTILITIES, EXCEPT WHERE THE OTHER UTILITY SHALL MAINTAIN TEN (10) FEET HORIZONTAL SEPARATION, UNLESS OTHERWISE NOTED.
- B. WATER MAINS SHALL CROSS ABOVE OTHER PIPES. WHEN WATER MAINS CROSS ANOTHER UTILITY, THE OTHER UTILITY SHALL MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE WHERE THE PREFERRED SEPARATION MAY NOT BE MET. A MINIMUM OF 12" OF OUTSIDE-TO-OUTSIDE VERTICAL SEPARATION MUST BE PROVIDED.
- C. ALL UTILITY CROSSING SEPARATIONS SHOULD BE CHANGED SO THAT THE JOINTS OF THE CROSSING PIPES ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CROSSED ON THE CROSSING).
- D. ALL TREES BETWEEN ALL TREES AND WATER MAINS SHALL MEET CITY OF TAMPA PARKS DEPARTMENT LATEST REQUIREMENTS. NO TREE SHALL BE PLANTED WITHIN 10 FEET OF INSTALLED OR EXISTING WATER MAINS.
- MATERIAL**
- A. ALL VALVES SHALL BE RIGHT HAND (CLOCKWISE) OPEN.
- B. ALL DUCTILE IRON PIPE (DIP) FITTINGS AND APPURTENANCES SHALL UTILIZE POLYWRAP.
- C. ALL HARDWARE SHALL BE AT LEAST 304 STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- D. ALL BELOW GROUND BENDS SHALL BE MECHANICAL JOINT.
- E. ALL VALVES AND FITTINGS SHALL BE RESTRAINED.
- F. ALL VALVES SHALL LOCKS TO PREVENT UNAUTHORIZED PERSONS TO PROVIDE THRUST RESTRAINT.
- G. RESTRAINT OF PUSH-ON DIP (OTHER THAN FOR FITTINGS AND VALVES) SHALL BE WITH APPROVED PUSH-ON "GRIPPER-TYPE" RESTRAINTS. FITTINGS AND VALVES SHALL BE CONNECTED TO PIPE WITH MEDICAL LUBRICANT OR APPROVED LUBRICANT.
- H. ALL POTABLE WATER SERVICE LATERALS, AIR RELEASE VALVES, AND TEMPORARY SAMPLE POINTS SHALL BE CONSTRUCTED OF BLUE SDR-8 HIGH DENSITY POLYETHYLENE (HDPE) TUBING.
- I. ALL MATERIALS SHALL BE APPROVED BY THE CITY OF TAMPA WATER DEPARTMENT. SPECIFICATIONS AND DETAILS OF THE CITY OF TAMPA WATER DEPARTMENT TECHNICAL MANUAL.

- A. HORIZONTAL ALIGNMENT SHALL BE AS SHOWN ON THE DRAWINGS. THE PIPE SHALL HAVE A MINIMUM 48-INCH COVER. THE MAXIMUM DEPTH SHALL BE DETERMINED BASED ON 36-INCH MINIMUM CLEARANCE UNDER WATER OR GAS LINES AND 24-INCH CLEARANCE UNDER ALL OTHER EXISTING OR PROPOSED UTILITIES TO BE CROSSED. COMPOUND CURVATURES MAY BE USED, BUT SHALL NOT EXCEED THE MAXIMUM DIRECTIONS AS SET FORTH BY THE HDPE PIPE MANUFACTURER OR AWWA STANDARDS, WHICHEVER IS STRICTER.
- B. 1) SHALL BE 12" - 14" IDEAL (NOT TO EXCEED 15"). EXIT ANGLE SHALL BE 6" - 12" TO FACILITATE "PULL-BACK".
- C. ENTRY AND EXIT ANGLES ARE DETERMINED AS ANGLES FROM THE HORIZONTAL.
- D. A BORING LOG FOR THE VERTICAL AND HORIZONTAL ALIGNMENTS OF THE DIRECTIONAL DRILLED PIPES SHALL BE PROVIDED AND SUBMITTED ALONG WITH THE AS-BUILT PACKAGE.

- A. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL BE PROPERLY PRESSURE TESTED, WETTED, AND ACCEPTED FOR THE PRESSURE TEST TO BE PERFORMED BY THE CITY OF TAMPA WATER DEPARTMENT SPECIFICATION. CONTRACTOR TO NOTIFY THE DESIGNATED CITY ENGINEER A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE OF PERFORMING TESTS. CONTRACTOR SHALL PRESSURE TEST WATER MAINS AT A MINIMUM OF 150 PSI FOR A PERIOD OF 2 HOURS. PERFORMANCE STANDARDS TOWARDS THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS AND ARRANGEMENTS.
- B. ALL SAMPLE, PRESSURE TEST, AND CHLORINATION POINT PIPING SHALL BE COMPLETELY REMOVED FROM THE PROJECT. THE CORPORATION STREET SHALL BE CLOSED AND PLUGGED AT THE MAIN.
- C. CONTRACTOR SHALL PERFORM DISINFECTION AND HIRE INDEPENDENT FIRMS TO CONDUCT ANALYSIS OF THE WATER MAINS. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY WITH AS-BUILTS AND SAMPLE RESULTS NECESSARY TO OBTAIN DEB CLEARANCES.

- A. ROADWAY RESTORATION SHALL BE IN CONFORMANCE WITH CORRESPONDING JURISDICTIONS LATEST STANDARDS.
- B. ALL ASPHALT OPEN CUTS WITHIN CITY RIGHT-OF-WAY SHALL BE FULLY MILLED AND OVERLAYED FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT PER THE WATER DEPARTMENT'S STANDARD DETAIL.
- C. DISTURBANCE TO ANY PROPERTY, PUBLIC OR PRIVATE, AS PART OF THE CONSTRUCTION OF PUBLIC WATER FACILITIES, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

THE CITY OF TAMPA WATER DEPARTMENT'S HOLD ON THE CERTIFICATE OF OCCUPANCY WILL NOT BE RELEASED UNTIL ALL CLOSEOUT REQUIREMENTS SET FORTH BY CITY OF TAMPA WATER DEPARTMENT AND CONSTRUCTION ENGINEERING & INSPECTIONS DIVISION HAVE BEEN SATISFIED. THESE REQUIREMENTS MAY INCLUDE, BUT NOT BE LIMITED TO:

- A. FINAL INSPECTION IN CONJUNCTION WITH THE CONSTRUCTION ENGINEERING & INSPECTIONS DIVISION PERSONNEL COMPLETED AND APPROVED.
- B. AS-BUILTS, BOTH HARD COPIES AND PDF, HAVE BEEN RECEIVED AND ACCEPTED. ALL RECORD DRAWINGS MUST CONFORM WITH THE LATEST VERSION OF THE WATER DEPARTMENT'S WATER PIPE NETWORK AS BUILT REQUIREMENTS MANUAL.
- C. ALL NECESSARY TESTING COMPLETED AND CERTIFIED.
- D. PAYMENT OF ALL CITY OF TAMPA WATER DEPARTMENT FEES.
- E. ISSUANCE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION / HILLSBOROUGH COUNTY HEALTH DEPARTMENT CERTIFICATION OF COMPLETION APPROVAL (IF APPLICABLE).
- F. RECEIPT AND ACCEPTANCE OF ALL REQUIRED EASEMENT DEDICATION DOCUMENTS (IF APPLICABLE).
- G. RECEIPT AND ACCEPTANCE OF ALL REQUIRED TRANSFER OF OWNERSHIP DOCUMENTS (IF APPLICABLE).

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
BRAULIO GRAJALES, PE ON THE DATE ADJACENT TO THE SEAL
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SECTION 17, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA
MAP OF SURVEY

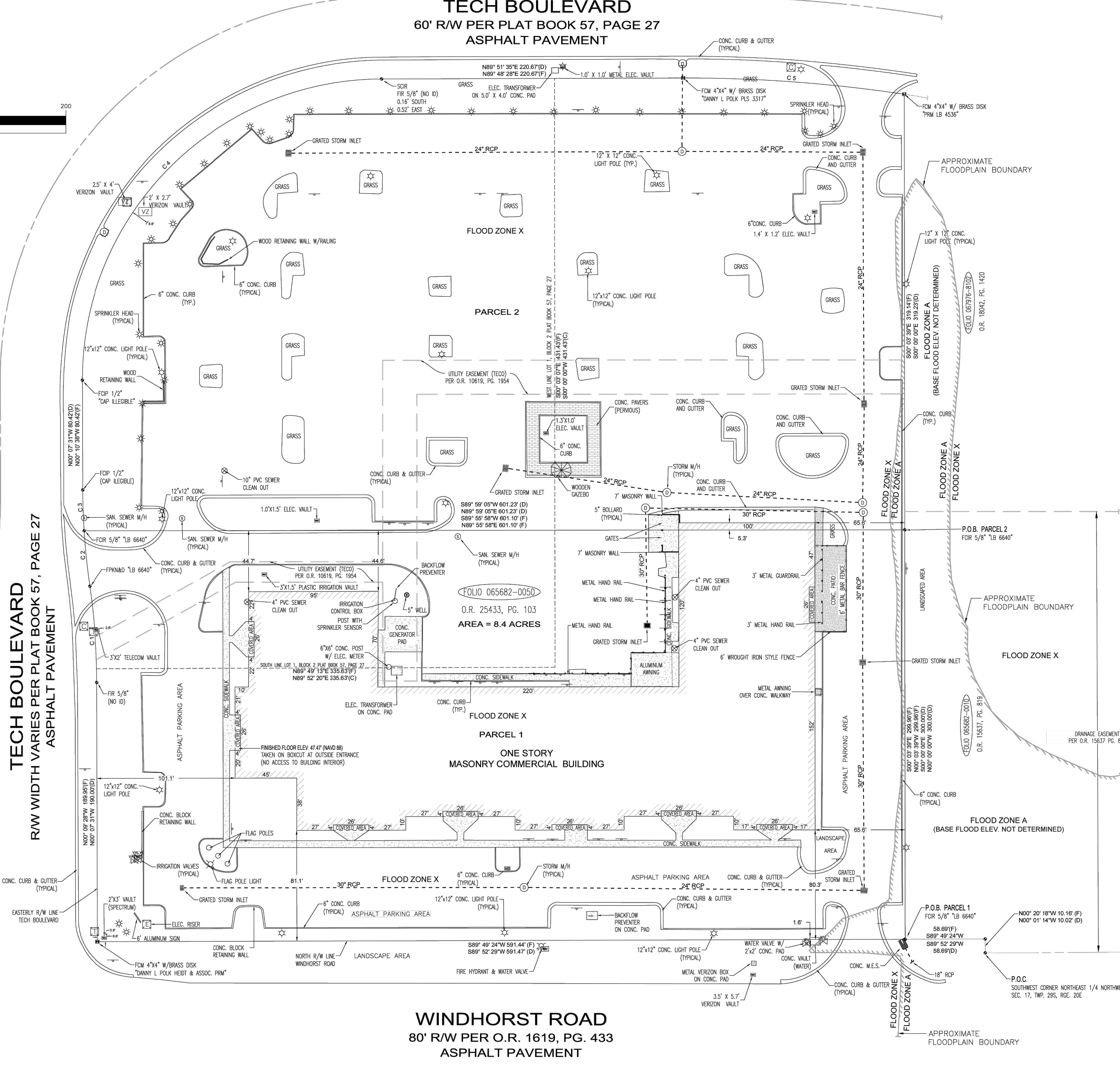
ABBREVIATIONS	
A/C	= AIR CONDITIONER UNIT
APVD	= APPROVED
ARV	= AIR RELEASE VALVE
BDY	= BOUNDARY
BFP	= BACK FLOW PREVENTER
BOT	= BOTTOM
BWF	= BARBED WIRE FENCE
(C)	= CALCULATED DIMENSION
C.B.	= CONDOMINIUM BOOK
CH	= CAPPED IRON ROD
CLF	= CHAIN LINK FENCE
CMP	= CORRUGATED METAL PIPE
CO	= COMPANY
CONC.	= CONCRETE
COR.	= CORNER
CR	= COUNTY ROAD
(D)	= DEED DIMENSION
DB	= DEED BOOK
ELC	= DIAMETER
ECMP	= ELLIPTICAL CORRUGATED METAL PIPE
EL	= ELEVATION
ELEC.	= ELECTRIC
EXT.	= EXTENSION
EP	= ENVIRONMENTAL PROTECTION COMMISSION
ENPC	= ELLIPTICAL REINFORCED CONCRETE PIPE
(F)	= FIELD MEASURED DIMENSION
FOR	= FOUND CAPPED IRON ROD
FOP	= FOUND CAPPED IRON PIPE
FM	= FOUND CONCRETE MONUMENT
FI	= FIRE HYDRANT
FIP	= FOUND IRON PIPE
FIR	= FOUND IRON ROD
FM&D	= FOUND MAG NAIL AND DISK
FORM&D	= FOUND PARKER KALON NAIL AND DISK
FRS	= FOUND RAILROAD SPIKE
H	= HEIGHT
HILLS. CO.	= HILLSBOROUGH COUNTY
HW	= HOG WIRE FENCE
ID	= IDENTIFICATION
INC.	= INCORPORATED
INV.	= INVERT
IR	= IRON ROD
LB	= LICENSED BUSINESS
L.F.	= LINEAR FEET
MES	= MIXTURED END SECTION
M/H	= MANHOLE
NOF/S	= NO CORNER FOUND OR SET
O.D.	= OUTSIDE DIAMETER
OHV	= OVERHEAD WIRE(S)
O.R.	= OFFICIAL RECORD BOOK
(P)	= PLAT DIMENSION
P.B.	= PLAT BOOK
PC	= PAGE
PLS	= PROFESSIONAL LAND SURVEYOR
P.O.B.	= POINT OF BEGINNING
P.O.C.	= POINT OF COMMENCEMENT
PROJ.	= PROJECT
PT.	= POINT
PVC	= POLYVINYL CHLORIDE
PVT	= PAVEMENT
RCP	= REINFORCED CONCRETE PIPE
REF.	= REFUSION
REV.	= REVISION
RGE	= RANGE
RR	= RAILROAD
R/W	= RIGHT-OF-WAY
SC	= SET
SC&D	= SET MAG NAIL AND DISK
SV	= STATION
SV	= SEWER VALVE
TBM	= TEMPORARY BENCHMARK
TOB	= TOP OF BANK
TRAV.	= TRAVEL
TWP	= TOWNSHIP
W	= WITH
W/F	= WOOD PRIVACY FENCE
WV	= WATER VALVE

SYMBOL LEGEND	
	CABLE RISER BOX
	CEDAR TREE (W/ DIAMETER)
	CITRUS TREE (W/ DIAMETER)
	CLEANOUT
	CREPE MYRTLE
	ELECTRIC VAULT
	FIRE HYDRANT
	GUY ANCHOR
	INVERT
	LIGHT POLE (UTILITY)
	MAILBOX
	MONITOR WELL
	OAK TREE (W/ DIAMETER)
	PALM TREE (W/ DIAMETER)
	PINE TREE (W/ DIAMETER)
	STORM MANHOLE
	SANITARY MANHOLE
	SANITARY SEWER VALVE
	SHRUB
	SIGN (ONE POST)
	TRAFFIC SIGNAL BOX
	SPRINKLER
	TELEPHONE RISER BOX
	TREE (UNDETERMINED TYPE OR NOTED)
	(W/ DIAMETER)
	UTILITY POLE
	VERIZON VAULT (TELECOM)
	IRRIGATION VALVE
	WATER VALVE
	FOLIO NUMBER
	WELL
	BURIED TELEPHONE LINE MARKER
	BURIED FIBER OPTIC CABLE MARKER
	BURIED WATER LINE MARKER
	SPOT ELEVATION (HARD SURFACE)
	SPOT ELEVATION (GROUND)

CURVE TABLE				
CURVE No.	RADIUS	DELTA	LENGTH	CHORD BEARING
C1 (F)	500.00'	08° 06' 40"	70.78'	N04° 14' 04"W
C1 (D)	500.00'	08° 06' 35"	70.77'	N04° 10' 48"W
C2 (F)	500.00'	04° 40' 43"	40.83'	N05° 56' 51"W
C2 (D)	500.00'	04° 40' 48"	40.84'	N05° 51' 41"W
C3 (F)	500.00'	03° 25' 47"	29.93'	N01° 53' 32"W
C3 (D)	500.00'	03° 25' 48"	29.93'	N01° 50' 25"W
C4 (F)	220.00'	89° 59' 09"	345.52'	N44° 48' 55"E
C4 (D)	220.00'	89° 59' 06"	345.52'	N44° 52' 02"E
C5 (F)	1070.00'	08° 42' 35"	162.66'	S85° 48' 01"E
C5 (D)	1070.00'	08° 43' 09"	162.83'	S85° 46' 51"E

CERTIFIED TO:
Hillsborough County, a political subdivision of the State of Florida
Fuentes and Kreischet, P.A.
Old Republic National Title Insurance Company
CTB Buffalo Investments, LP, a Florida limited partnership

TECH BOULEVARD
RW WIDTH VARIES PER PLAT BOOK 57, PAGE 27
ASPHALT PAVEMENT



WINDHORST ROAD
80' R/W PER O.R. 1619, PG. 433
ASPHALT PAVEMENT

DESCRIPTION:

The land referred to herein below is situated in the County of Hillsborough, State of Florida, and is described as follows:

PARCEL 1

A portion of the North 1/2 of Section 17, Township 29 South, Range 20 East, Hillsborough County, Florida, and a portion of Lot 1, in Block 2, of PINEBROOKE BUSINESS PARK - PHASE II, according to the Map or Plat thereof, recorded in Plat Book 57, Page 27, of the Public Records of Hillsborough County, Florida, being more particularly described as follows:

Commence at the Southwest corner of the Northeast 1/4 of the Northwest 1/4 of said Section 17; thence North 00° 01' 14" West along the West boundary of the Northeast 1/4 of the Northwest 1/4 of said Section 17, a distance of 10.02 feet to a point on the Northerly right-of-way line of Windhorst Road; thence South 89° 52' 29" West, along the Northerly right-of-way line of said Windhorst Road, a distance of 58.74 feet to the Point of Beginning of the herein described parcel; thence continue South 89° 52' 29" West along the Northerly right-of-way line of said Windhorst Road, a distance of 591.47 feet to a point on the Easterly right-of-way line of Tech Boulevard, (the next three courses are along the Easterly right-of-way line of said Tech Boulevard); thence North 00° 07' 31" West, a distance of 190.00 feet to the point of curvature of a curve concave Westward, having a radius of 500.00 feet and a central angle of 08° 06' 35"; thence along the arc of said curve, a distance of 70.77 feet and a chord of 70.71 feet which bears North 04° 10' 48" West to a point of reverse curvature with a curve concave Easterly, having a radius of 500.00 feet and a central angle of 04° 40' 48"; thence along the arc of said curve, a distance of 40.84 feet and a chord of 40.83 feet which bears North 05° 51' 41" West, to a point of intersection with a non-tangent line; thence departing Easterly right-of-way line, North 89° 59' 05" East, a distance of 601.23 feet; thence South 00° 00' 00" East, a distance of 300.00 feet to the Point of Beginning.

PARCEL 2:

A portion of the North 1/2 of Section 17, Township 29 South, Range 20 East, Hillsborough County, Florida, and a portion of Lot 1, in Block 2, of PINEBROOKE BUSINESS PARK - PHASE II, according to the Map or Plat thereof, recorded in Plat Book 57, Page 27, of the Public Records of Hillsborough County, Florida, being more particularly described as follows:

Commence at the Southwest corner of the Northeast 1/4 of the Northwest 1/4 of said Section 17; thence North 00° 01' 14" West along the West boundary of the Northeast 1/4 of the Northwest 1/4 of said Section 17, a distance of 10.02 feet to a point on the Northerly right-of-way line of Windhorst Road; thence South 89° 52' 29" West along the Northerly right-of-way line of said Windhorst Road, a distance of 58.74 feet; thence departing said Northerly right-of-way line North 00° 00' 00" East, a distance of 300.00 feet to the Point of Beginning of the herein described parcel; thence South 89° 59' 05" West, a distance of 601.23 feet to a point on the Easterly right-of-way line of Tech Boulevard, said point also being on the arc of a non-tangent circular curve concave to the Northeast, (the next five courses are along the Easterly right-of-way line of said Tech Boulevard); thence along the arc of said curve, having a radius of 500.00 feet and a central angle of 03° 25' 48", on an arc length of 29.93 feet, the chord for which bears North 01° 50' 25" West, a chord distance of 29.93 feet to the point of tangency; thence North 00° 07' 31" West, a distance of 80.42 feet to the point of curvature of a tangent circular curve concave to the Southeast; thence along the arc of said curve, having a radius of 220.00 feet, a central angle of 89° 59' 06", an arc length of 345.52 feet, the chord for which bears North 44° 52' 02" East, a chord distance of 311.09 feet to the point of tangency; thence North 89° 51' 35" East, a distance of 220.67 feet to the point of curvature of a tangent circular curve concave to the Southwest; thence along the arc of said curve, having a radius of 1070.00 feet, a central angle of 08° 43' 09", an arc length of 162.83 feet, the chord for which bears South 85° 46' 51" East, a chord distance of 162.68 feet; thence departing said Easterly right-of-way line, South 00° 00' 00" East, a distance of 319.23 feet to the Point of Beginning.

Containing 8.4 acres, more or less

Surveyor's Notes

- This is a Boundary Survey of Hillsborough County Folio No. 065682-0050. The purpose of this survey is to facilitate the acquisition of said parcel by Hillsborough County, Florida. This survey may not be used for any other purpose without the express written consent of the Hillsborough County Geospatial Services Department.
- Field measured bearings and coordinates as shown hereon are referenced to the Florida State Plane Coordinate System, Florida West Zone, North American Datum 1983 Adjustment 2011 (NAD83/2011), based on control points established with Real Time Kinematic (RTK) Global Positioning System (GPS) observations using the Florida Permanent Reference Network (FPRN). The north right-of-way line of Windhorst Road bears South 89° 49' 24" West.
- I have reviewed Old Republic National Title Insurance Company ALTA Commitment File No. 2032379 with Effective Date May 26, 2023 at 8:00 AM and have shown any exceptions regarding matters of survey contained in Schedule B therein. NO independent search of the Public Record to ascertain matters of title has been performed as a part of this survey.
- NO elevations were established as a part of this survey with the exception of the finished floor elevation as shown hereon. Finished floor elevation as shown hereon is National Vertical Datum 1988 (NAVD 88) and is expressed in feet. origin of said elevation is from Hillsborough County Vertical Control Station VB-455 (published elevation 42.49 ft.).
- NO parking stripes or parking spaces were mapped as a part of this survey.
- NO subsurface investigation to locate underground foundations, septic tanks, utilities or other installations has been performed as a part of this survey. All utilities and improvements as shown hereon are from above ground visible evidence only. Surveyor did NOT contact subsurface utility locator service.
- NO jurisdictional lines such as wetlands, conservation areas, set-backs or zoning lines were located or established as a part of this survey.
- NO trees or landscaping were mapped as a part of this survey.
- By graphic plotting only, this parcel lies in Flood Zones "A" and "X" according to Flood Insurance Rate Map (FIRM) No.: 12057C, Panel No.: 0379K, Community Name/No.: Hillsborough County / 120112, Effective Date: October 7, 2021. NO field surveying was performed to determine these zones and an elevation certificate may be required to verify this determination or to apply for a variance from the Federal Emergency Management Agency (FEMA).
- Folio numbers as shown hereon were obtained from the Hillsborough County Property Appraiser's web site on October 9, 2023.
- This survey is intended to be displayed at a scale of 1" = 50' on a 22" X 34" sheet. attention is directed to the fact that the size may have been changed by rephotographic methods.
- Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
- Hillsborough County is self-insured in accordance with Florida Statutes.

JOHN D. COLLINS
Professional Surveyor & Mapper
Florida Certificate No. 5894

SURVEY MAP OR COPIES THEREOF ARE NOT VALID
WITHOUT THE ORIGINAL SIGNATURE AND THE SEAL
OF A FLORIDA LICENSED SURVEYOR AND MAPPER

		BOUNDARY SURVEY		SHERIFF TRAINING FACILITY		10210 WINDHORST ROAD		PREPARED: LP 10/9/2023		BY: JC 10/11/2023		FIELD BOOK NO.: 747		SCALE: 1" = 50'		GEOSPATIAL SERVICES PROJECT NO. S23-0293		CIP/CIT PROJECT NO. C77902000	
NO.		REVISION DESCRIPTION		DATE		BY		APVD		Last Date of Field Survey 10/9/2023		SECTION		TOWNSHIP		RANGE		SHEET 1 OF 1	

HILLSBOROUGH COUNTY, FLORIDA
GEOSPATIAL SERVICES DIVISION
SURVEY FIELD OFFICE
8420 SABAL INDUSTRIAL BLVD., TAMPA, FL 33619
Phone: (813) 307-1860
www.hillsboroughcounty.org

BOUNDARY & TOPOGRAPHIC SURVEY

HCSO TRAINING ACADEMY

10210 WINDHORST ROAD

TAMPA, FLORIDA 33619

5005 W. Laurel Street, Suite 201

Tampa, Florida 33607

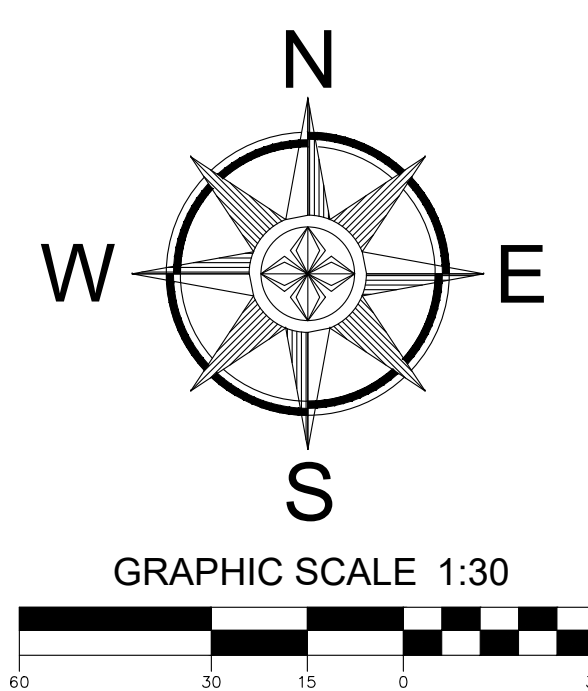
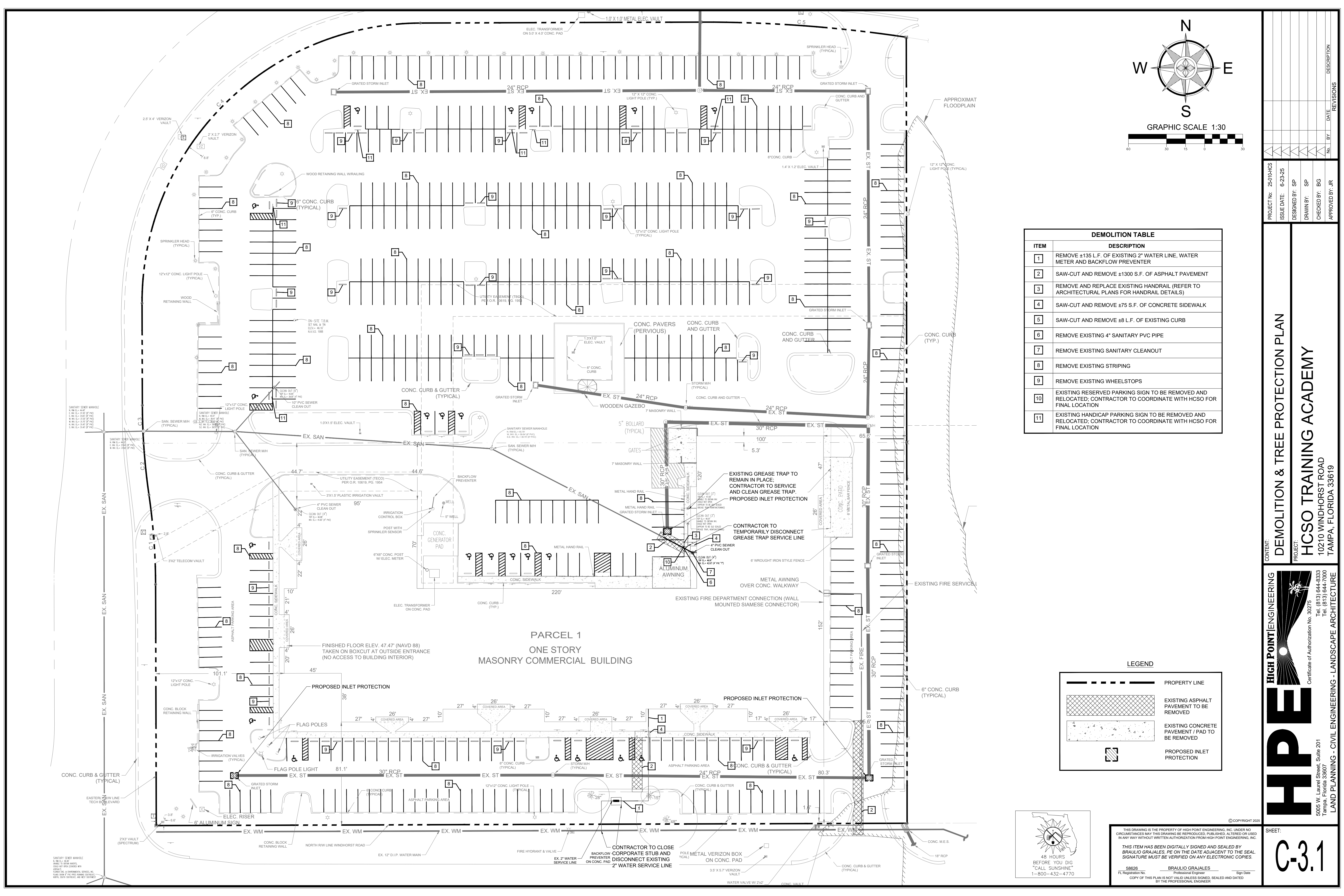
LAND PLANNING - CIVIL ENGINEERING

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
BRAULIO GRAJALES, PE ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

58626 BRAULIO GRAJALES
Professional Engineer
FL Registration No. 58626
COPY OF THIS PLAN IS NOT VALID UNLESS SIGNED, SEALED AND DATED BY THE PROFESSIONAL ENGINEER

C-2.3



DEMOLITION TABLE	
ITEM	DESCRIPTION
1	REMOVE ±135 L.F. OF EXISTING 2" WATER LINE, WATER METER AND BACKFLOW PREVENTER
2	SAW-CUT AND REMOVE ±1300 S.F. OF ASPHALT PAVEMENT
3	REMOVE AND REPLACE EXISTING HANDRAIL (REFER TO ARCHITECTURAL PLANS FOR HANDRAIL DETAILS)
4	SAW-CUT AND REMOVE ±75 S.F. OF CONCRETE SIDEWALK
5	SAW-CUT AND REMOVE ±8 L.F. OF EXISTING CURB
6	REMOVE EXISTING 4" SANITARY PVC PIPE
7	REMOVE EXISTING SANITARY CLEANOUT
8	REMOVE EXISTING STRIPING
9	REMOVE EXISTING WHEELSTOPS
10	EXISTING RESERVED PARKING SIGN TO BE REMOVED AND RELOCATED; CONTRACTOR TO COORDINATE WITH HCISO FOR FINAL LOCATION
11	EXISTING HANDICAP PARKING SIGN TO BE REMOVED AND RELOCATED; CONTRACTOR TO COORDINATE WITH HCISO FOR FINAL LOCATION

LEGEND	
	PROPERTY LINE
	EXISTING ASPHALT PAVEMENT TO BE REMOVED
	EXISTING CONCRETE PAVEMENT / PAD TO BE REMOVED
	PROPOSED INLET PROTECTION



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58626 BRAULIO GRAJALES
FL Registration No. Professional Engineer
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48 HOURS BEFORE YOU DIG "CALL SUNSHINE" 1-800-432-4770

PROJECT No: 250104-HCS
ISSUE DATE: 6-23-25
DESIGNED BY: SP
DRAWN BY: SP
CHECKED BY: BG
APPROVED BY: JR

PROJECT: **DEMOLITION & TREE PROTECTION PLAN**
HCSO TRAINING ACADEMY
10210 WINDHORST ROAD
TAMPA, FLORIDA 33619

Certificate of Authorization No. 30275
Tel. (813) 644-8333
Tel. (813) 644-7000
5005 W. Laurel Street, Suite 201
Tampa, Florida 33607
LAND PLANNING - CIVIL ENGINEERING - LANDSCAPE ARCHITECTURE

REVISIONS

NO.	DATE	BY	DESCRIPTION

SHEET:

C-3.1

(NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM)
ATTENTION: FAILURE TO MAINTAIN EROSION AND/OR SEDIMENTATION
CONTROLS, OR AN ILLICIT DISCHARGE RESULTING FROM THEIR
FAILURE WILL LIKELY RESULT FINE CITATIONS. SECTION 403.0885 OF
THE FLORIDA STATUTES AUTHORIZES PENALTIES OF UP TO \$10,000.00
FOR EACH OFFENSE.



1. FOLIO NUMBER: 065682-0050
2. SECTION / TOWNSHIP / RANGE: 17 / 29 S / 20 E
3. SITE ADDRESS: 10210 WINDHORST ROAD
TAMPA, FLORIDA 33619
4. PROPOSED USE:
OFFICE = 59,020 SF
5. OWNER: HILLSBOROUGH COUNTY
REAL ESTATE DEPARTMENT
P.O. BOX 1110
TAMPA, FL 33601-1110
6. PROPERTY AREA: 366,340 SF (8.41 AC)
7. EXISTING ZONING: INTERSTATE PLANNED DEVELOPMENT-2 (IPD-2)
MANUFACTURING (RM)
8. FUTURE LAND USE: URBAN MIXED-USE-20 (UMU-20)
9. BUILDING INFORMATION:
OCCUPANCY CLASSIFICATION: A3
TYPE OF CONSTRUCTION: II B (SPRINKLERED)
NUMBER OF FLOORS: 1 STORY
GROSS FLOOR AREA: 59,020 SF
10. BUILDING HEIGHT: 19'-0" FT (ABOVE THE FINISH FLOOR)
FINISH FLOOR ELEVATION: +47.47 FT NAVD
11. SITE AREAS (EXISTING / PROPOSED):

BUILDING AREA:	59,020 SF	(61.61%)
TOTAL IMPERVIOUS AREA:	256,043 SF	(69.9%)
TOTAL PERVIOUS AREA:	110,297 SF	(30.1%)
OPEN SPACE AREA:	110,297 SF	(30.1%)
TOTAL PROPERTY AREA:	366,340 SF	(100.0%)
12. FLOOD ZONE INFORMATION: ZONE "X"
FEMA MAP 12057C0379K REVISED 10/7/2021
13. TOTAL PARKING EXISTING: 601 SPACES
— — — — —
REGULAR = 578
HANDICAP = 23
14. TOTAL PARKING PROVIDED: 545 SPACES
REGULAR = 521
HANDICAP = 24

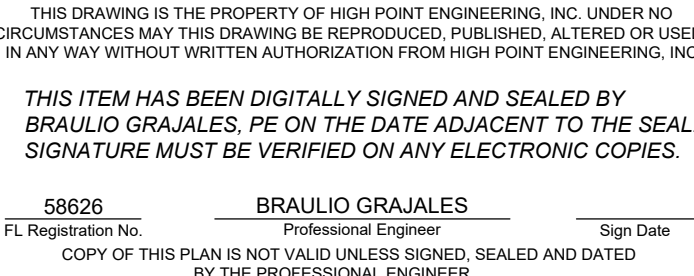
2. ALL PEDESTRIAN ROUTES, SIDEWALKS, ACCESSIBILITY RAMPS, HANDICAPPED PARKING SPACES, ACCESSIBILITY SIGNS, AND SYMBOLS SHALL BE CONSTRUCTED IN STRICT CONFORMANCE WITH THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (FACBC), LATEST EDITIONS AND CURRENT HILLSBOROUGH COUNTY STANDARD DETAILS.
3. ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY, ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO CONSTRUCTION.
4. MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT HIS OWN EXPENSE.
5. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS.
6. BUILDING SIGNAGE SHALL BE PERMITTED BY THE OWNER'S SIGN CONTRACTOR UNDER A SEPARATE APPLICATION.
7. ALL DISTURBED AREAS ARE TO RECEIVE FOUR (4) INCHES OF TOP SOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
8. ALL EXISTING AND PROPOSED ELEVATIONS ARE REFERENCED FROM NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) 1988.
9. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY, OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY.
10. IN ORDER TO COMPLY WITH SECTION 4.01.05.A OF THE HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE TO MINIMIZE SOIL EROSION, PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE PROOF EARTH MEASURES (E.G., HAY BALES, Baffles, SODDING, AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY, TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.
11. THE CONSTRUCTION OF ALL ABOVE GROUND UTILITY APPLURANCES VISIBLE FROM THE PUBLIC RIGHT-OF-WAY SUCH AS PEDESTALS, UTILITY METERS, TRANSFORMERS, BACK-FLOW PREVENTION DEVICES, ETC. FOR NEW DEVELOPMENT OR REDEVELOPMENT ACTIVITIES SHALL CONFORM TO SCREENING REQUIREMENTS SET FORTH AND IN SECTION 8.06.06.C.10 OF THE LAND DEVELOPMENT CODE. PLANT LOCATION OR OTHER SCREENING MUST BE CONSIDERATE OF REQUIRED SPATIAL SEPARATIONS FROM A FIRE FLOW PROTECTION APPLIANCE IN ACCORDANCE TO THE UNIFORM FIRE CODE, AND PER WATER, WASTEWATER AND RECLAIMED WATER REQUIREMENTS. PLANTING AND SCREENING SHALL BE LOCATED AT A MINIMUM OF 5' FROM UTILITY SLABS AND 3' FROM UNDERGROUND VALVES. TREES MUST BE LOCATED A MINIMUM OF 8' FROM UTILITY SLABS.
12. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE, SODDING, PLUGGING, SPRIGGING, OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SLOPES OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.

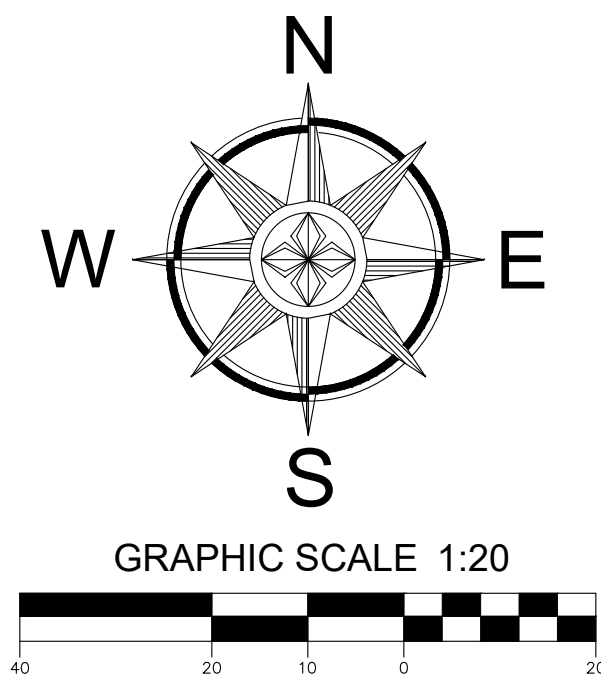
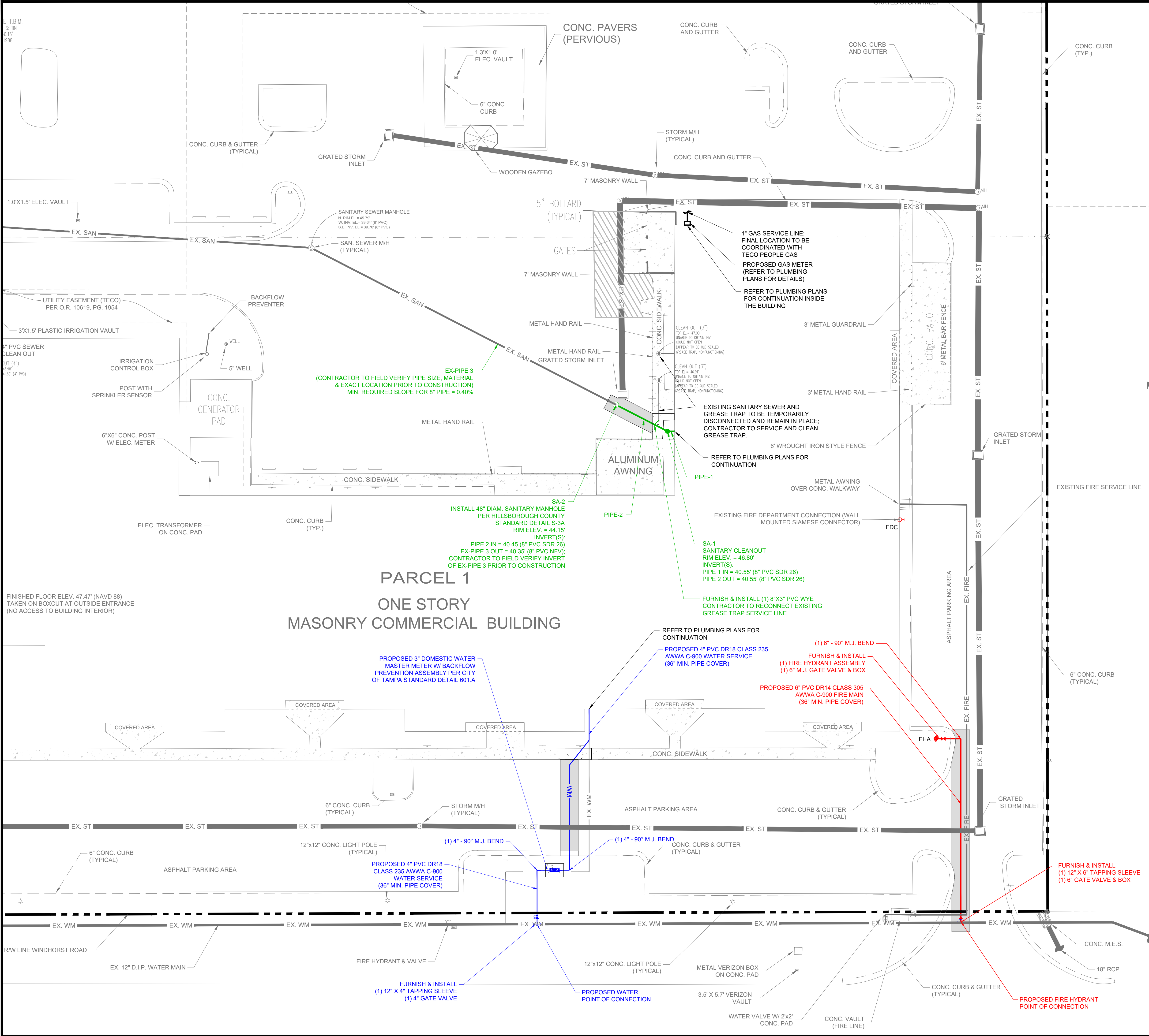
Diagram illustrating the proposed and existing pavement dimensions and materials:

- PROPOSED DIMENSION:** 42'
- EXISTING DIMENSION:** 42'
- EXISTING CONCRETE PAVEMENT / PAD / SIDEWALK**
- PROPOSED CONCRETE PAVEMENT / PAD / SIDEWALK**
- PROPOSED ASPHALT PAVEMENT**

ITEM	DESCRIPTION
1	PROPOSED ±110 S.F. OF CONCRETE SIDEWALK
2	PROPOSED ±1,300 S.F. OF ASPHALT PAVEMENT AND BASE
3	PROPOSED WHEEL STOP (TYPICAL)
4	PROPOSED 8' X 6' CONCRETE PAD FOR WATER MAIN
5	PROPOSED HANDRAIL (REFER TO ARCHITECTURAL PLANS FOR DETAILS)

ALL EXISTING AND PROPOSED ELEVATIONS
ARE REFERENCED FROM NORTH AMERICAN
VERTICAL DATUM (N.A.V.D.) 1988.
N.G.V.D. 1929 = 0.89 FT + N.A.V.D. 1988





IMPORTANT UTILITIES NOTES

1. ALL UTILITIES ARE TO BE LOCATED UNDERGROUND PER HILLSBOROUGH COUNTY PUBLIC WORKS STANDARDS.
2. PER FLORIDA BUILDING PLUMBING CODE 2007 SECTION 603.2, WATER SERVICE PIPE AND THE BUILDING SEWER SHALL BE SEPARATED BY 5' OF UNDISTURBED OR COMPACTED EARTH.
3. PER FLORIDA BUILDING PLUMBING CODE 2007 SECTION 603.2, THE REQUIRED SEPARATION DISTANCE SHALL NOT APPLY WHERE THE BOTTOM OF THE WATER SERVICE PIPE WITHIN 5' OF THE SEWER IS A MINIMUM OF 12" ABOVE THE TOP OF THE HIGHEST POINT OF THE SEWER AND THE PIPE MATERIALS CONFORM TO FLORIDA BUILDING PLUMBING CODE 2007 TABLE 702.3.
- WATER SERVICE PIPE IS PERMITTED TO BE LOCATED IN THE SAME TRENCH WITH A BUILDING SEWER, PROVIDED SUCH SEWER IS CONSTRUCTED OF MATERIALS LISTED IN FLORIDA BUILDING PLUMBING CODE 2007 TABLE 702.2.
- THE REQUIRED SEPARATION DISTANCE SHALL NOT APPLY WHERE A WATER SERVICE PIPE CROSSES A SEWER PIPE, PROVIDED THE WATER SERVICE PIPE IS SLEEVED TO AT LEAST 5' HORIZONTALLY FROM THE SEWER PIPE CENTERLINE ON BOTH SIDES OF SUCH CROSSING WITH PIPE MATERIALS LISTED IN FLORIDA BUILDING PLUMBING CODE 2007 TABLE 605.3, 702.2 OR 702.3.
4. SOD ALL AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION.
5. THE CONTRACTOR IS TO COORDINATE ALL WORK WITHIN, BUT NOT LIMITED TO, HILLSBOROUGH COUNTY, CITY OF TAMPA, RIGHTS-OF-WAY WITH UTILITY COMPANIES IN ORDER TO PREVENT DAMAGE TO UTILITY LINES AND THE MAKING OF ADJUSTMENTS TO SAME, IF REQUIRED.
6. THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF EXISTING WATER AND SEWER LINES PRIOR TO BEGINNING CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL UTILITY PERMITS.
8. ADJUSTING MANHOLE TOPS TO MATCH FINISH GRADE AND SLOPE OF THE FINISH PAVING SHALL BE INCLUDED IN THE RESPECTIVE CONTRACT UNIT PRICE FOR MANHOLES, PAYMENT OF WHICH WILL CONSTITUTE FULL COMPENSATION FOR THE CONSTRUCTION AND COMPLETION OF THE MANHOLE, AND NO ADDITIONAL PAYMENT WILL BE ALLOWED OR MADE FOR ADJUSTING MANHOLE TOPS.
9. BENDS SHALL BE INSTALLED IN WATER MAIN TO AVOID UNFORESEEN CONFLICTS WITH EXISTING OR PROPOSED STRUCTURES.
10. THE JOINT DEFLECTION METHOD SHALL BE USED WHERE PRACTICAL IN LIEU OF INSTALLING BENDS.
12. ALL SANITARY SEWER LINE EXTENSIONS TO CONFORM TO HILLSBOROUGH COUNTY PUBLIC UTILITIES TECHNICAL STANDARDS AND SPECIFICATIONS.

FIRE PROTECTION AND DOMESTIC WATER FLOW DEMAND SCHEDULE

(1) FIRE		DOMESTIC					
GROSS FLOOR AREA (SF)	FLOW DEMAND (2) (GPM)	FLOW DURATION (HRS)	AVERAGE DEMAND (3) (GPD)	MAXIMUM DEMAND (4) (GPD)	PEAK HOUR DEMAND (5) (GPH)	FIXTURE VALUE AT 35 PSI	PEAK DEMAND (GPM)
59,020	1,313	4	8,853	17,706	2,213	1,053.1	123

- FIRE**
(1) NFPA 1, CHAPTER 18, TABLE 18.4.5.2.1
(2) WATER REQUIREMENTS FOR EXTERIOR MANUAL FIRE FIGHTING. THE MINIMUM FIRE FLOW REQUIRED FOR A BUILDING WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM: 1,313 GPM

LEGEND

	PROPERTY LINE
	EX. WM
	WM
	FIRE
	EX. SAN
	SAN
	EX. FM
	EX. ST
	EXISTING WATER MAIN
	PROPOSED WATER SERVICE
	PROPOSED FIRE MAIN
	EXISTING SANITARY SEWER LINE
	PROPOSED SANITARY SEWER
	EXISTING FORCE MAIN
	EXISTING STORM SEWER

ALL EXISTING AND PROPOSED ELEVATIONS ARE REFERENCED FROM NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) 1988.
N.G.V.D. 1929 = 0.91 FT + N.A.V.D. 1988

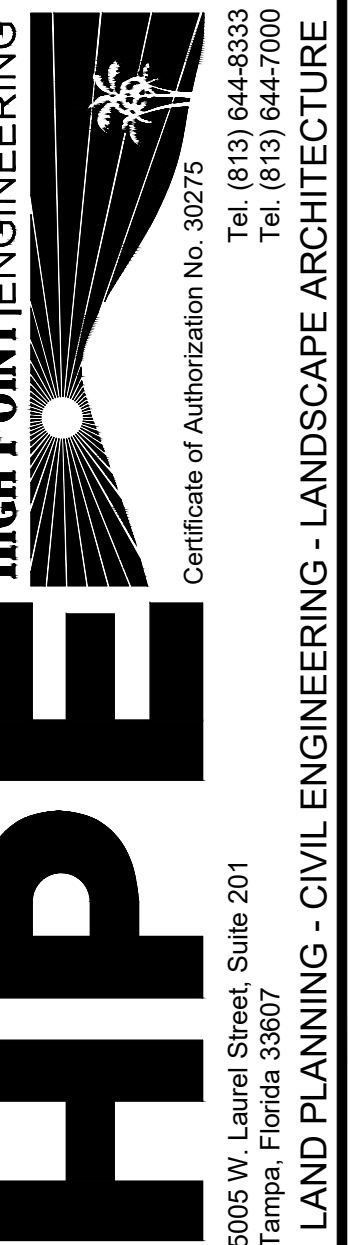


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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BRAULIO GRAJALES, PE ON THE DATE ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

58626 BRAULIO GRAJALES Professional Engineer
FL Registration No. Sign Date
COPY OF THIS PLAN IS NOT VALID UNLESS SIGNED, SEALED AND DATED BY THE PROFESSIONAL ENGINEER


UTILITIES PLAN



SHEET:

C-5.1

Water, Wastewater, and Reclaimed Water Technical Manual



Hillsborough

County

Florida

SECTION 4.0

SPECIFICATIONS FOR WASTEWATER SYSTEMS DESIGN

4.1 GENERAL

4.1.1

The following specifications cover the general design, review of plans and specifications, and acceptance of wastewater collection systems, wastewater pumping stations, wastewater force mains, wastewater line extensions and all appurtenant items which are to be owned and maintained by Hillsborough County.

4.1.2

The Public Utilities Water Resources Department (WRD) Technical Specifications 333001 "Gravity Wastewater Sewers and Appurtenances", 333002 "Wastewater Force Mains and Appurtenances", and 333003 "Wastewater Pumping Stations", provides additional clarification regarding design details, materials of construction, installation, and acceptance requirements. If further clarification is needed, contact the Site Engineering Review Section of the Development Services Department (DSD) or the Utility Design Section of WRD.

4.1.3

All improvements and modifications made to the Hillsborough County wastewater system must be done in accordance with plans approved by the Site Engineering Review Section of DSD. Material and workmanship must comply with Public Utilities Technical Specifications 333001, 333002, and 333003.

4.2 PLANS PREPARATION

4.2.1

All sanitary wastewater collection systems, wastewater pumping stations, wastewater transmission force mains, wastewater line extensions, and all appurtenant items must be designed in accordance with the applicable regulations of Hillsborough County, Hillsborough County Department of Health, the Florida Department of Environmental Protection, and the standard established herein.

4.2.2

When a wastewater main will serve existing or future developments beyond the borders of the proposed site, the County may request oversizing. If the County determines that a line needs to be "Oversized", the procedures for sizing and reimbursement, as outlined in Appendix 3, must be followed.

4.2.3

The wastewater collection system or wastewater transmission system or any portion thereof, which is to become the property and sole responsibility of Hillsborough County WRD, must be designed and constructed within a public right-of-way or easement (design exception) which may be used for said purpose. Refer to the Hillsborough County Public Works Transportation Technical Manual Drawings, latest edition, for Recommended Utility Locations, TS-1.

4.3 PLANS REVIEW

4.3.1

For subdivision development, the Developer must comply with the procedures and requirements set forth in Article VI, Part 6.02.00 of the County's Land Development Code. For site developments, the Developer must comply with the procedures and requirements set forth in Article VI, Part 6.03.00 of the County's Land Development Code. The placement of appurtenances in Hillsborough County right-of-way must be as required in the Utility Accommodation Guide and Rights of Way Use Procedures Manual.

October 2023

Page |4-1|

SECTION W-20 - MAINTAINING EXISTING SANITARY SEWER IN OPERATION

W-20.01 General

It shall be the Contractor's responsibility to preserve all existing sanitary sewer services without interruption while performing the work included in this project. The Contractor shall furnish all labor, materials, and equipment required to bypass wastewater flow around the working area to an acceptable point of discharge. Also, if deemed necessary by the engineer, the contractor will be responsible to provide necessary noise suppression devices to minimize bypass pump noise.

The Contractor shall not be permitted to pump or otherwise direct the flow of sanitary sewage into storm sewers, streams, or other open channels or onto streets or alleys at any time during the course of the work.

W-20.02 Bypass Pumping


The Contractor shall submit the proposed plan to the Engineer for approval prior to proceeding with the work. All required agency approvals and permits shall be the responsibility of the Contractor. The hydraulic design of the bypass pumping arrangement shall be the sole responsibility of the Contractor.

Pumping equipment shall be of a type suitable for pumping raw unscreened sewage over an indefinite period without clogging or requiring shutdown for routine maintenance. Bypass pumping shall be continuous during the entire length of time each portion of the work is being accomplished. The Contractor shall submit drawings and equipment specifications, detailing the proposed pumping equipment and the method of installation, to the Engineer for approval.

The Contractor shall possess at least one (1) backup pump, no smaller than the largest pump in use, on site for every 1 to 3 bypass pumps in operation. An additional backup pump shall be required on site for each increment of 3 pumps in operation as illustrated on the following table:

Operating Bypass Pumps	Required Backup Pumps On Site
1 - 3	1
4 - 6	2
7 - 9	3

Water, Wastewater, and Reclaimed Water Technical Manual

 Hillsborough
County Florida

4.3.2 The Developer or authorized representative must submit plans and associated documentation in accordance with the procedures and requirements set forth in Article VI, Part 6.03.00 of the County's Land Development Code. The Site Engineering Review Section will either accept or reject the plans with notations for corrections required. All plans must comply with the requirements of Section 2.0 of the Hillsborough County Public Utilities Water, Wastewater, and Reclaimed Water Technical Manual.

4.4 PROJECT ACCEPTANCE

Following completion of construction and testing, the Developer's Engineer of Record must submit certified "Record" drawings and the Asset Data spreadsheet with the "as-built" information shown on the original design as outlined in Section 1.6 and Section 2.4. Information required on a "Record" drawing of a typical wastewater collection system is shown in Figure 4-1.

4.5 SYSTEM DESIGN AND FLOW CRITERIA

4.5.1 General: The provisions of this section set forth the general requirements for design and installation of wastewater collection/transmission systems and facilities. The Engineer must comply with all the requirements of the Florida Department of Environmental Protection in addition to the criteria contained herein.

4.5.2 Siting Requirements: Pump Stations must be sited to consider the potential for damage or interruption of operation because of flooding. Pump station structures and electrical and mechanical equipment must be designed to be protected from physical damage by the 100-year flood. Pump stations must be designed to remain fully operational and accessible during the 25-year flood unless lesser flood levels are appropriate based on local considerations, but not less than the 10-year flood [62-604.400(2) (e), F.A.C.]

4.5.3 Flow Criteria: Flow estimates for design must be calculated based on full or projected ultimate development. The average daily flow (ADF) for single family or master-metered residences must be the per unit demand factors contained in the most current Hillsborough County Utility Rate Resolution. Industrial and commercial design flows for sanitary wastewater must be in accordance with Table 1 of the County's Utility Rate Resolution. Wastewater gravity collection systems, pumping stations, and force mains must be designed for average daily flow times the appropriate peak factor as shown in Table 4-1. If the County determines that a line needs to be "Oversized", the procedures for sizing and reimbursement, as outlined in Appendix 3, must be followed.

Table 4-1: Wastewater Flow Peaking Factors

Average Flow (MGD)	Peak Factor	Average Flow (MGD)	Peak Factor
0 - .10	3.00	.701 - .80	2.65
.101 - .20	2.95	.801 - .90	2.60
.201 - .30	2.90	.901 - 1.0	2.55
.301 - .40	2.85	1.01 - 2.0	2.50
.401 - .50	2.80	2.01 - 4.0	2.25
.501 - .60	2.75	>4.0	2.00
.601 - .70	2.70		

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SECTION W-20 - MAINTAINING EXISTING SANITARY SEWER IN OPERATION

W-20.03 Connections


All house laterals and connections to lateral sewers shall be maintained in operation without leakage or backup during the work.

W-20.04 Street Closures

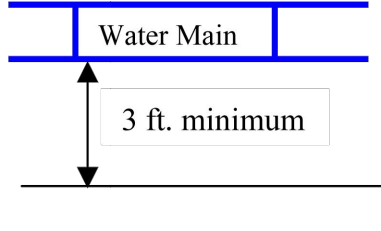
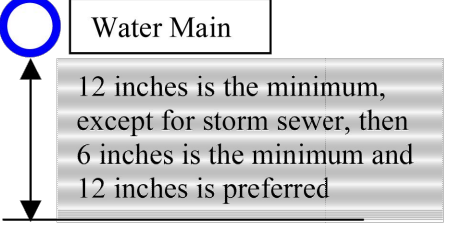
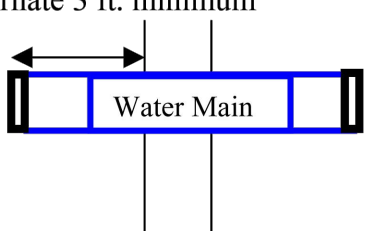
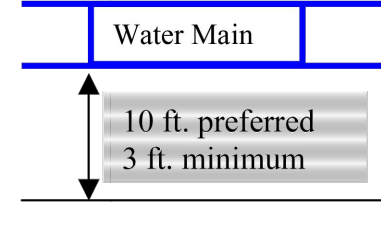
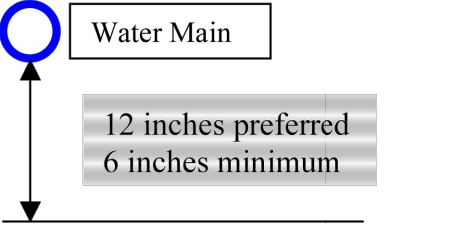
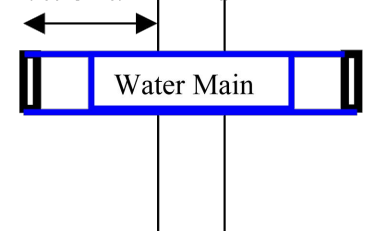
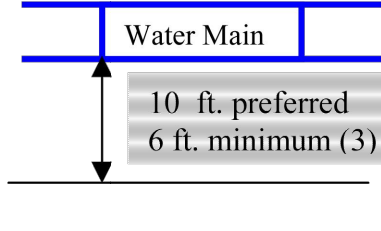
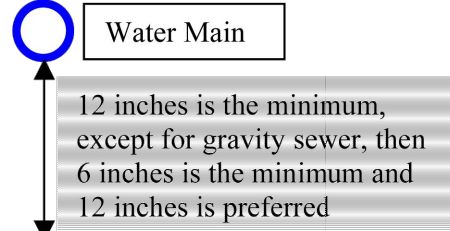
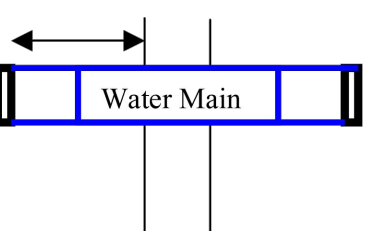
The Contractor shall be responsible for coordination of maintenance of traffic and all street closures with the City of Tampa, Department of Public Works; Hillsborough County, Superintendent of Maintenance; and the State of Florida, Department of Transportation.

W-20.05 Cleanup

When the repair or reconstruction has been completed, all temporary connections and bulkheads shall be removed. Sewers shall be cleaned of all settled solids.


Water, Wastewater, and Reclaimed Water Technical Manual		
4.5.4	Connection Feasibility: If you are not required to connect to sewer per the Hillsborough County Land Development Code, the development will be evaluated for consideration of a septic system based on the availability criteria defined in Chapter 381 of Florida Statute.	
4.5.5	Gravity Collection System	
4.5.5.1	Minimum Size of Gravity Mains: Gravity mains must be sized to accommodate peak flow (ref. 4.5.3) when flowing 1/2 full. No gravity sewer main shall be less than eight inches in diameter.	
4.5.5.2	Alignment: All gravity mains must be laid with straight alignment between manholes.	
4.5.6	Wastewater Manholes	
4.5.6.1	Manholes must be installed at the end of each line, at all changes in grade, size or alignment, and at all gravity main collection intersections. The distance between manholes must not be greater than 400 feet unless prior approval is obtained from the County. Cleanouts may be used only for special conditions and must not be substituted for manholes.	
4.5.6.2	Design: The minimum diameter of manholes must be no less than 48-inches. A minimum access diameter of 24 inches must be provided. The minimum depth of manholes is five feet.	
4.5.7	Force Main	
4.5.7.1	Minimum Size of Force Mains: The Developer must install the largest size force main that will maintain a minimum velocity of two feet per second (fps). The minimum size force main constructed within County Road right-of-way or dedicated easements must not be less than four inches in diameter.	
4.5.7.2	System Design: Force mains must be sized to carry the full development peak flow (ref. Section 4.5.3) from all connected pumping stations within the designated stations service area. Each force main system should be capable of transporting the peak flow from each pump station operating simultaneously without producing excessive pressure, i.e., not to exceed 100 feet Total Dynamic Head (TDH) anywhere in the system.	
4.5.7.3	Cover, as measured from finished grade to the top of the pipe, must not be less than 48 inches.	
4.5.7.4	When automatic air release valves are required, the depth of cover of the entire line must be increased to 52-inches(min.).	
4.5.7.5	Valve Locations: New force mains connecting to existing force mains must include a shutoff plug valve at the point of connection. The distance between in-line (isolation) valves must not exceed 1,000 feet.	
4.5.8	Wastewater Pumping Stations	
4.5.8.1	Flows: Wastewater pumping stations must be designed to accommodate the full development flow from all contributing areas at peak flow computed in accordance with the "Flow Criteria" set forth in Section 4.5.3.	
4.5.8.2	Design: Wet well diameter must be six feet or greater and sized to both maximize holding time and minimize pump starts. Wet well depths must not exceed 25 feet.	
4.5.9	Connection of Single Family Homes Using Individual Grinder Pumps: Per BOCC Policy 09.07.03.03, grinder pumps may be used for single family home connections to allow single family homes to be constructed in infill areas where sewage service is reasonably economically available only by the use of grinder pumps through a pressure force main to WRD mains. This policy is applicable only under the following conditions:	
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LOCATION OF PUBLIC WATER SYSSEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)			
Vacuum Sanitary Sewer			
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)			
On-Site Sewage Treatment & Disposal System	10 ft. minimum	---	---

- (1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
(2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
(3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
(4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

Disclaimer – This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

Water, Wastewater, and Reclaimed Water Technical Manual		
4.5.9.1	This exception to the standard gravity sewer/pumping station/force main systems, described in this manual, applies to existing lots to be developed for single family homes and to larger lots being subdivided into no more than five single family lots.	
4.5.9.2	The requirement for the property owner, and all future owners, to operate and maintain the system will be noted on the deed of each property and on the appropriate plat, when applicable.	
4.5.9.3	All pressure pipe, in the right-of-way, must be gasketed PVC pipe, restrained as necessary. Glued fittings or glued joints are not allowed. Connection to a WRD force main must be a tee with in-line and branch plug valves.	
October 2023	Page 4-4	

UTILITIES NOTES & SCHEDULES

HCSO TRAINING ACADEMY

10210 WINDHORST ROAD
TAMPA, FLORIDA 33619

HIGH POINT ENGINEERING



Certificate of Authorization No. 30275
Tel. (813) 644-8333
Tel. (813) 644-7000

HPE

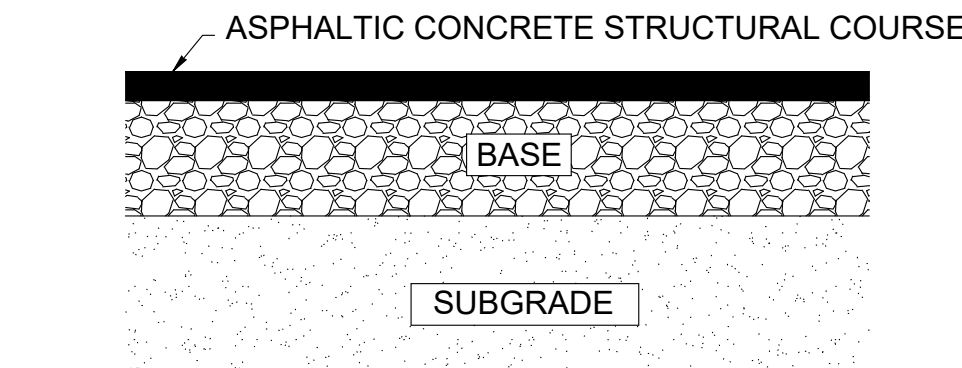
5005 W. Laurel Street, Suite 201
Tampa, Florida 33607

LAND PLANNING - CIVIL ENGINEERING - LANDSCAPE ARCHITECTURE

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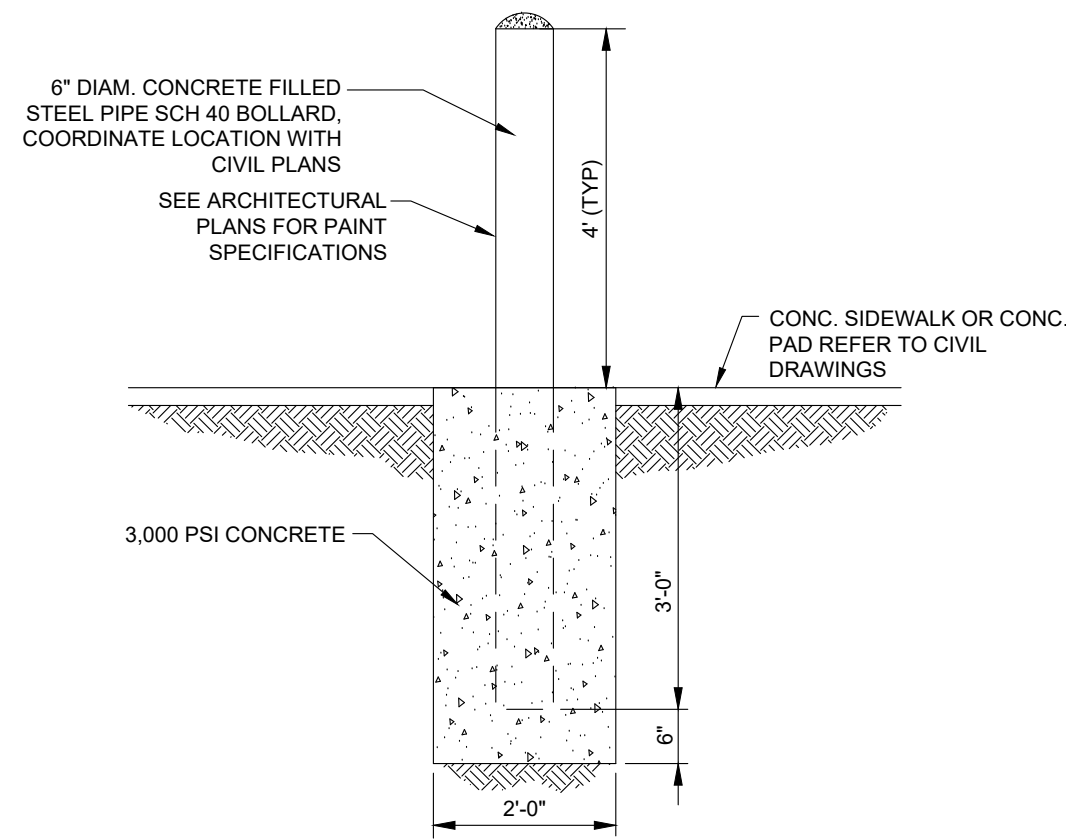
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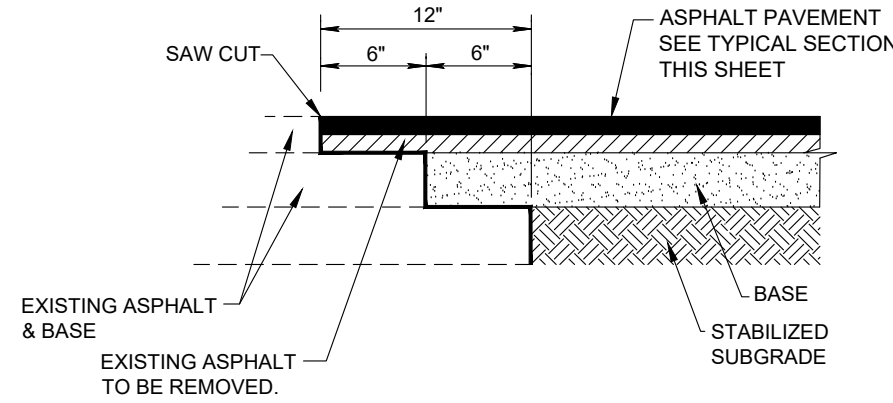


- NOTES:
- ASPHALT 2" TYPE SP-9.5 ASPHALTIC CONCRETE STRUCTURAL COURSE FIELD COMPACTED TO 95% OF LABORATORY MAXIMUM DENSITY PER SPECIFIC GRAVITY (Gmm) METHOD
- BASE 6" LIMEROCK (LBR 100) OR CRUSHED PORTLAND CEMENT CONCRETE (LBR 150) BASE FROM FDOT APPROVED SOURCES AND MEETING ALL THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTION 204 COMPACTED TO 100% OF MAXIMUM DENSITY PER ASTM D1557 / AASHTO T-180
- SUBGRADE 12" STABILIZED SUBGRADE (LBR 40) COMPACTED TO 98% OF MAXIMUM DENSITY PER ASTM D1557 / AASHTO T-180

ON-SITE FLEXIBLE PAVEMENT SECTION
N.T.S.



TYPICAL BOLLARD DETAIL
N.T.S.

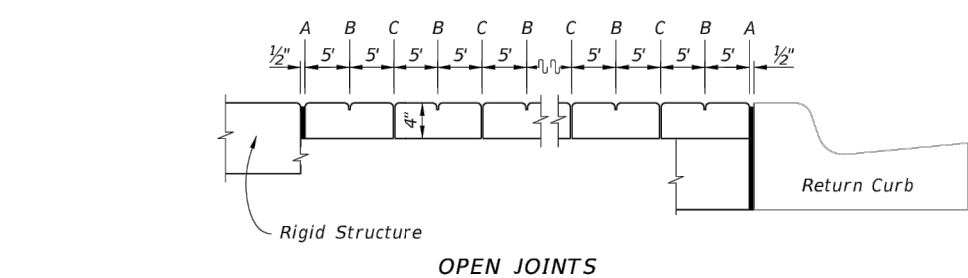


- NOTE:
- THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT AND BASE WILL BE CONNECTED TO EXISTING.

ASPHALT PAVEMENT CONNECTION TO
EXISTING PAVEMENT
N.T.S.

GENERAL NOTES:

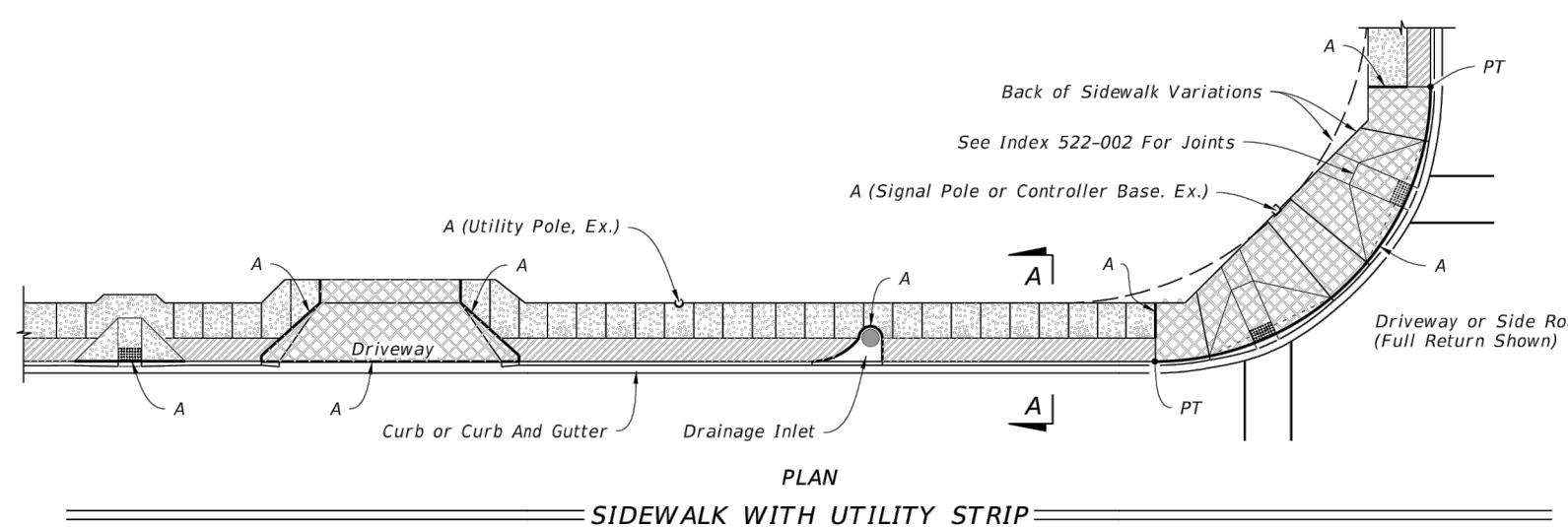
- Construct sidewalks in accordance with Specification 522. Use 6" concrete for Sidewalks and Curb Ramps Located within Curb Returns (See Plan View). Install all other concrete with thickness as shown, unless otherwise detailed in the Plans.
- Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.
- For Driveways see Index 522-003.
- Bond breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils and not more than 1/2".
- Construct sidewalks with Edge Beam through the limits of any surface mounted Pedestrian/Bicycle Railing or Pipe Guiderail shown in the plans. (See RAILING DETAIL)



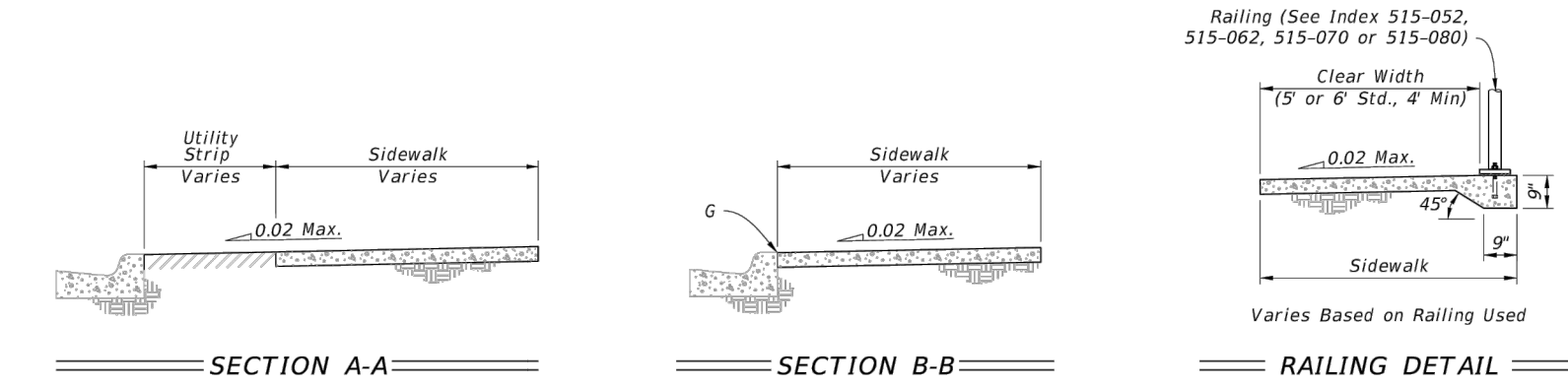
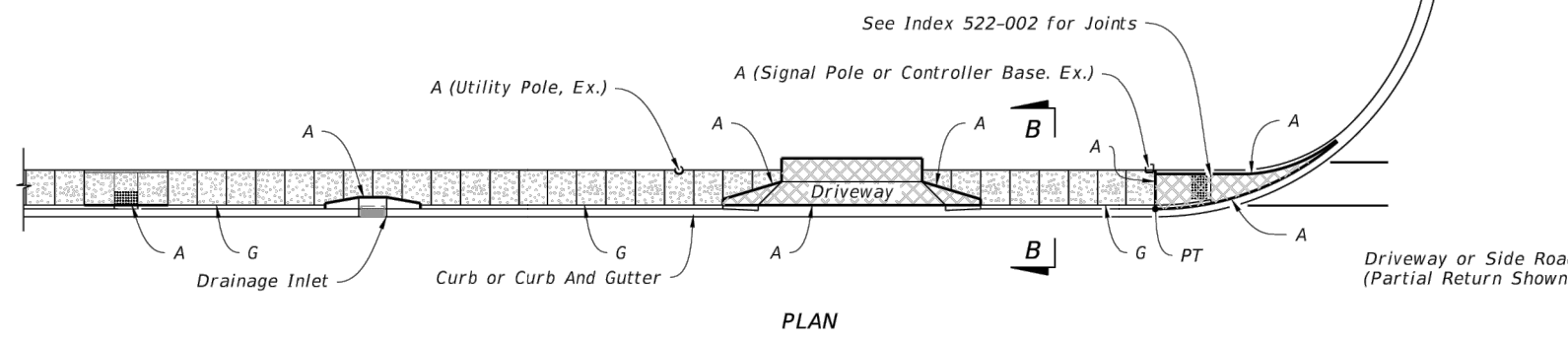
LONGITUDINAL SECTION

- LEGEND:
- A- 1/2" Expansion Joints (Preformed Joint Filler) between the sidewalk and: driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).
- B- 1/2" Dummy Joints, Tooled
- C- 1/2" Formed Open Joints
- D- 3/4" Saw Cut Joints, 1 1/2" Deep (within 96 hours) Max. 5' Centers
- E- 3/4" Saw Cut Joints, 1 1/2" Deep (within 12 hours) Max. 30' Centers (Joints) Required When Length Exceeds 30'
- F- 1/2" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by the Engineer.
- G- Cold Joint With Bond Breaker, Tooled

SIDEWALK JOINTS

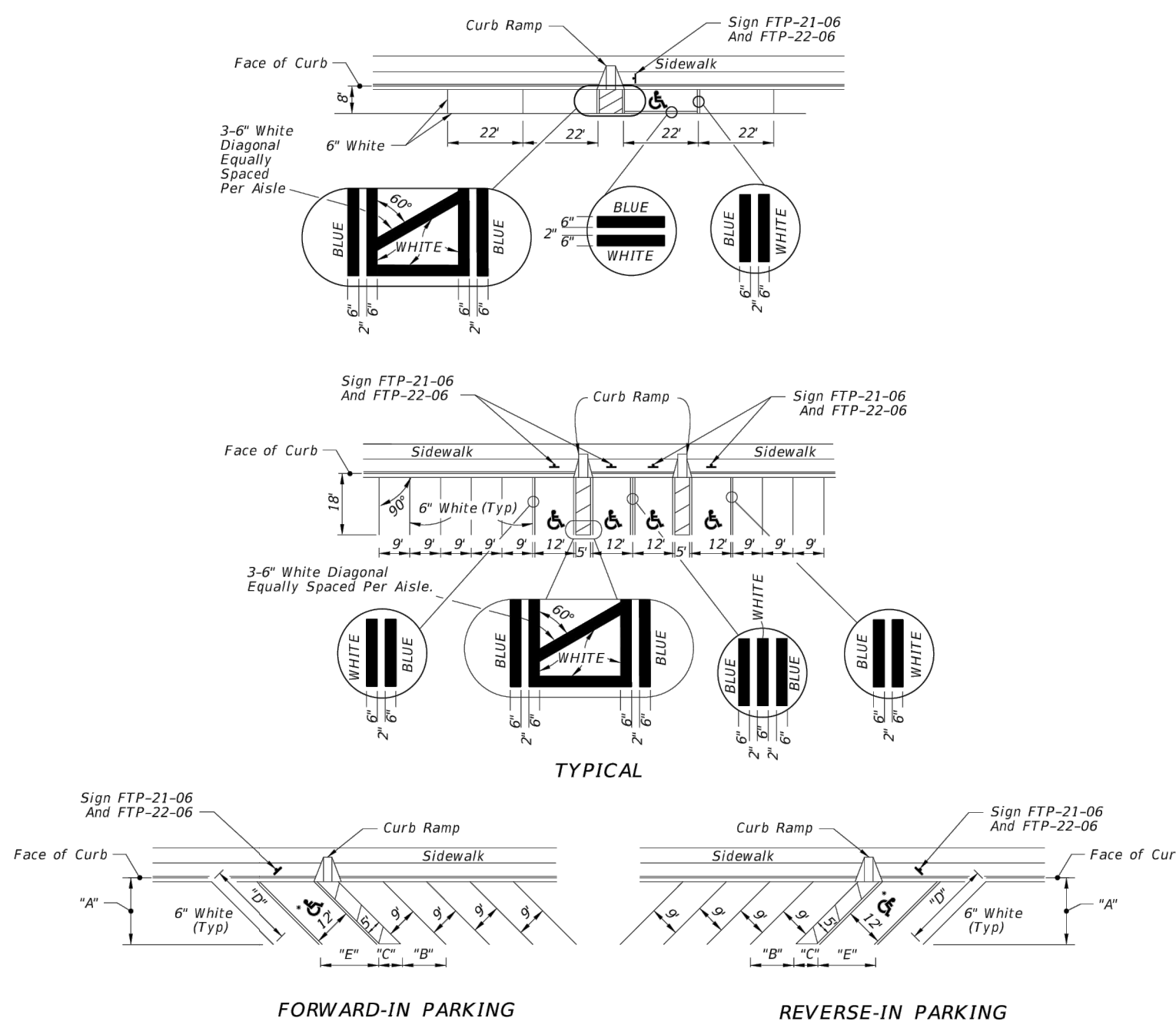


- LEGEND:
- 4" Thick Sidewalk
- 6" Thick Sidewalk
- Utility Strip



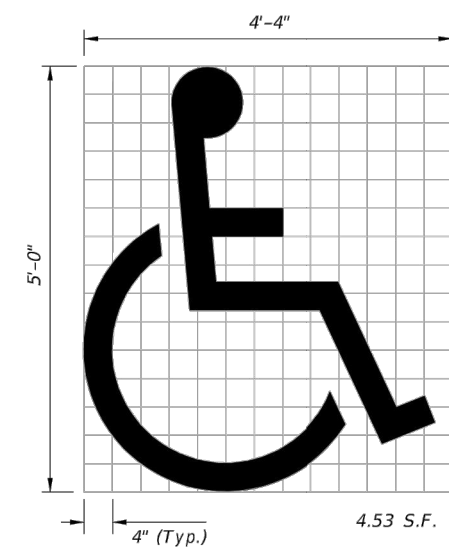
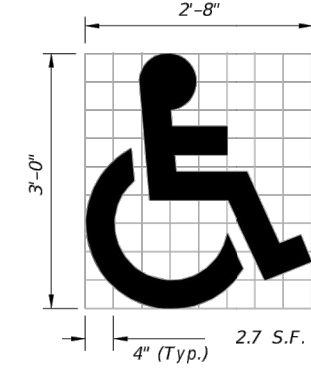
GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

LAST REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	INDEX	SHEET
11/01/18			522-001	1 of 2



PAVEMENT MARKING FOR PARKING

DIMENSIONS	"A"	"B"	"C"	"D"	"E"
4.8	17'-0"	12'-9"	7'-0"	24'-0"	17'-0"



UNIVERSAL SYMBOL OF ACCESSIBILITY

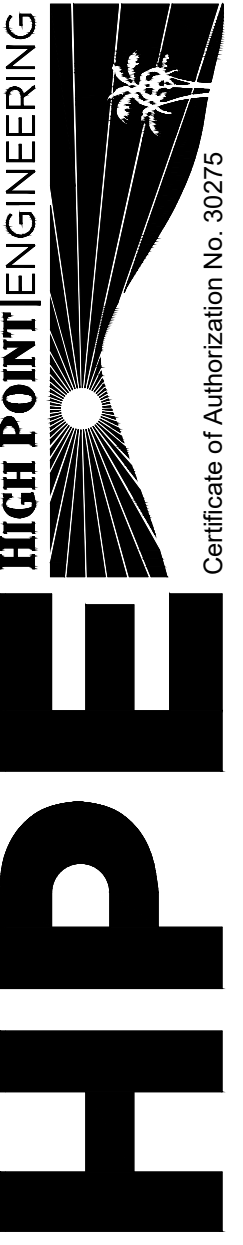
- NOTES:
- Dimensions are to the centerline of markings.
 - An Access Aisle is required for each accessible space when angle parking is used.
 - Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
 - Mount FTP-22-06 sign below the FTP-21-06 sign.
 - Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.

LAST REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	INDEX	SHEET
11/01/21			711-001	11 of 13

SITE CONSTRUCTION NOTES AND DETAILS

HCSO TRAINING ACADEMY

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TAMPA, FLORIDA 33619



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Tampa, Florida 33607

C-6.1

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