ABBREVIATIONS LEGEND

WATER METER WATER VALVE

		EXISTING	PROPO	SED
A/C	AIR CONDITIONING UNIT			
APPROX	APPROXIMATE	BORING/INFI	ILTRATION TEST LOCATION	
ARCH	ARCHITECTURAL			
ASPH	ASPHALT	U'	TILITY MANHOLE	
B.M.	BENCH MARK			
CALC	CALCULATED		LIGHT POLE	
CB	CATCH BASIN			
CE	CONSTRUCTION ENTRANCE	DR DR	ROP INLET-GRATE	
CONC	CAST IRON CONCRETE			
CONC	DUCTILE IRON	wm ·	WATER METER WM	
DIA	DIAMETER			
DIA DS	DOWN SPOUT		DOWNSPOUT	
EA	EACH			
EASMT	EASEMENT	\bowtie	GATE VALVE	
ELEC	ELECTRICAL			
ELEV	ELEVATION	- ♦-	FIRE HYDRANT	
EXIST	EXISTING			
FFE	FINISHED FLOOR ELEVATION	FIRE	DEPT. CONNECTION	
FH	FIRE HYDRANT			
FP	FIRE PROTECTION	POST	T INDICATOR VALVE ←■	
GV	GATE VALVE			
HDPE	CORRUGATED PLASTIC PIPE	⊗ SANITAF	RY SEWER CLEAN-OUT ⊗	
HORIZ	HORIZONTAL			
INV	INVERT		AFFIC. LIGHT POLE	
IP	INLET PROTECTION	Q ·		
 LF	LINEAR FEET	£ HANDIC	CAP PARKING SYMBOL	
MAX	MAXIMUM			
MIN	MINIMUM	LIMIT	T OF DISTURBANCE —— LOD —— LOD —	LOD
MG	MATCH GRADE			
PIV	POST INDICATOR VALVE	-0	SIGN	
PVC	POLYVINYL CHLORIDE			
RCP	REINFORCED CONCRETE PIPE	FIRE P	ROTECTION SERVICE	— FP ———
RED	REDUCER			
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER	——————————————————————————————————————	ANITARY SEWER ————— SAN —	
R/W	RIGHT OF WAY		OTOPM BRAIN	
SCH	SCHEDULE		STORM DRAIN —— sp ———	——— SD ————
SD	STORM DRAIN		WATERINE	
SF	SILT FENCE		WATERLINE ————————————————————————————————————	
SS	GRAVITY SEWER LINE		IDD AND CLITTED	
SSCO	SANITARY SEWER CLEAN OUT		JRB AND GUTTER	
SSMH	SANITARY SEWER MANHOLE		CENTERLINE	
STA	STATION		GENTERLINE	
STRUCT	STRUCTURAL		TREE LINE	
TC	TOP OF CURB		TINEL LIIVE	
TEL	TELEPHONE		HAIN LINK FENCE	
TP	TREE PROTECTION	x x x Cr	, are entire live	
TYP	TYPICAL	TREE	PROTECTION FENCE — TP — TP —	TP —— TP ——
VERT	VERTICAL	INCL		
W	WATER LINE		SILT FENCE —— SF —— SF —	SF
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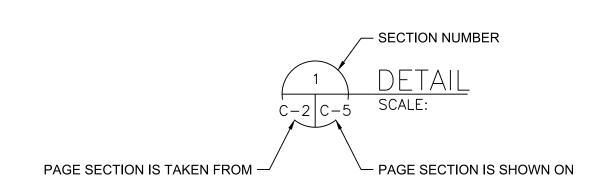


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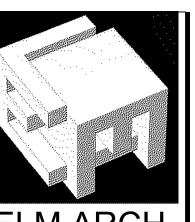
Sheet Number	Sheet Name	Sheet Title	DATE OF LATES
1	C0.00	C0.00 - WASD COVER SHEET	03/13/25
2	C0.01	C0.01 - SHEET INDEX AND LEGEND	03/26/25
3	C0.02	C0.02 - GENERAL CIVIL NOTES	03/26/25
4	C0.03	C0.03 - SEQUENCE OF CONSTRUCTION	03/26/25
5	C0.04	C0.04 - SOIL BORING PLAN	03/26/25
6	C1.00	C1.00 - EXISTING CONDITIONS	03/26/25
7	C1.01	C1.01 - DEMOLITION & EROSION CONTROL PLAN	03/26/25
8	C1.02	C1.02 - SITE LAYOUT PLAN	03/26/25
9	C2.00	C2.00 - GRADING & DRAINAGE PLAN	03/26/25
10	C2.01	C2.01 - PRE-DEVELOPMENT DRAINAGE AREA MAP	03/26/25
11	C2.02	C2.02 - POST-DEVELOPMENT DRAINAGE AREA MAP	03/26/25
12	C3.00	C3.00 - UTILITY PLAN	03/26/25
13	C3.01	C3.01 - SEWER PROFILE	03/26/25
14	C5.00	C5.00 - EROSION CONTROL NOTES & DETAILS	03/26/25
15	C5.01	C5.01 - SITE DETAILS 1	03/26/25
16	C5.02	C5.02 - SITE DETAILS 2	03/26/25
17	C5.03	C5.03 - SITE DETAILS 3	03/26/25
18	C5.04	C5.04 - UTILITY DETAILS 1	03/26/25
19	C5.05	C5.05 - UTILITY DETAILS 2	03/26/25
20	C5.06	C5.06 - UTILITY DETAILS 3	03/26/25

SYMBOLS

Julian James and Market and Marke

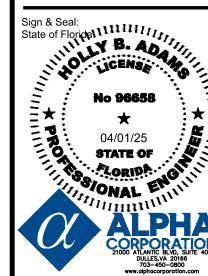






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Miami Lakes Branch Libi

REVISION REV 1 08-28-23 REV 2 11-14-23 REV 3 03-26-25

DATE

03-26-25 PROJECT NUMBER 19119

SHEET NUMBER

3

GENERAL NOTES

ALL WORK PERFORMED ON THIS PROJECT SHALL CONFORM TO THE LOCAL LAND DEVELOPMENT CODE. SECONDARY, THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE LATEST EDITIONS AND ALL APPLICABLE SECTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION, STATE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION, PROJECT SPECIFICATIONS, AND ALL APPLICABLE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

ALL PROPOSED ITEMS ARE INTENDED TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY ASSOCIATED WITH THE WORK RELATED TO THIS PROJECT AND FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL HEALTH AND SAFETY LAWS, CODES, REGULATIONS, AND ORDINANCES INCLUDING, BUT NOT LIMITED TO, THOSE CURRENTLY MANDATED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

THIS DRAWING REFLECTS THE CONDITIONS AT THE TIME OF SURVEY AND MAY NOT REPRESENT CURRENT CONDITIONS.

THIS PLAN IS NOT INTENDED AS A SUBSTITUTE FOR THE PERSONAL INVESTIGATION, INDEPENDENT INTERPRETATION, AND JUDGEMENT OF THE CONTRACTOR.

BEFORE BEGINNING ANY WORK, CONTRACTOR SHALL SURVEY THE SITE AND EXAMINE THE DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF THEIR WORK. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. CONTRACTOR SHALL ALSO VERIFY THE ENGINEER'S LINES AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY THE DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

WHEN A CONFLICT BETWEEN PLANS AND SPECIFICATIONS OR NOTES OCCURS, THE ENGINEER SHALL DECIDE WHICH GOVERNS. GENERALLY, THE MORE RESTRICTIVE, MORE SPECIFIC, OR STRICTER PROVISION SHALL GOVERN. IF ANY DISCREPANCIES ARE DISCOVERED ON THE PLANS OR BETWEEN THE PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN CLARIFICATION OF THE INTENT FROM THE ENGINEER PRIOR TO CONSTRUCTION OR INSTALLATION OF PROPOSED IMPROVEMENTS.

CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR CONSTRUCTION TO EXISTING OR BETTER CONDITIONS. ROADS, SIDEWALKS, UTILITIES, AND OTHER APPURTENANCES THAT ARE PLANNED TO REMAIN WHICH HAVE BEEN DAMAGED DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED, REPLACED, OR PROTECTED BY THE CONTRACTOR AT HIS/HER EXPENSE. ALL DAMAGE TO EXISTING IMPROVEMENTS, EXCAVATION, AND/OR REMOVAL OF ANY EXISTING IMPROVEMENTS SHALL BE KEPT TO A MINIMUM AND RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF CONTRACT.

CONTRACTOR SHALL KEEP THE RELEVANT ENGINEER INFORMED RELATIVE TO THE PROGRESS OF THE CONSTRUCTION. FAILURE OF CONTRACTOR TO KEEP THE ENGINEER INFORMED MAY REQUIRE UNCOVERING OF WORK TO VERIFY COMPLIANCE WITH PLANS AND SPECIFICATIONS. ANY COST ASSOCIATED WITH UNCOVERING WORK AND/OR VERIFYING COMPLIANCE SHALL BE BORNE BY THE CONTRACTOR. RELEVANT ENGINEER OF RECORD SHALL OBSERVE CONSTRUCTION ACTIVITIES AS REQUIRED.

CONTRACTOR IS SOLELY RESPONSIBLE FOR PREPARING AS-BUILT DRAWINGS UPON COMPLETION OF CONSTRUCTION. AS-BUILT DRAWINGS SHALL NOTE ANY DEVIATIONS FROM THE LOCATIONS AND/OR ELEVATIONS SHOWN ON THESE PLANS. AS-BUILT DRAWINGS SHALL SHOW ALL INSTALLED FACILITIES, AT A MINIMUM.

PERMITTING NOTES

ALL LOCAL, STATE, AND/OR FEDERAL PERMITS MUST BE OBTAINED PRIOR TO BEGINNING ANY WORK

EROSION CONTROL NOTES

LIMITS OF CONSTRUCTION INCLUDE LIMITS OF DISTURBANCE, DEMOLITION, EARTHWORK, AND SELECTIVE CLEARING. ALL AREAS OUTSIDE OF THE LIMITS OF CONSTRUCTION SHALL BE LEFT IN A NATURALIZED STATE.

CONTRACTOR SHALL MINIMIZE THE REMOVAL OF TREES AND LAND DISTURBANCE TO THE MAXIMUM EXTENT POSSIBLE AND REMOVE ONLY THOSE TREES NECESSARY FOR THE COMPLETION OF CONSTRUCTION.

CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS TO ENSURE SURVIVAL OF EXISTING TREES TO REMAIN. ALL TREES AND LANDSCAPING NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. DIGGING, DRIVING, OR TRENCHING IS NOT PERMITTED WITHIN THE DRIPLINE OF ANY PROTECTED TREE.

CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY DRAINAGE MEASURES WITH APPROVED EROSION AND SEDIMENT CONTROL DEVICES AS NEEDED THROUGHOUT CONSTRUCTION TO PREVENT PONDING OF WATER AND SOIL EROSION AS THE CONDITIONS CHANGE.

CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES TO CONTROL RUNOFF FROM CONSTRUCTION AREA(S). CONTRACTOR IS RESPONSIBLE FOR ANY FINES THAT MAY BE LEVIED DUE TO POLLUTION CREATED DURING CONSTRUCTION.

CONTRACTOR SHALL REMOVE SILT AND DEBRIS DEPOSITED IN DRAINAGE AND SEWERAGE SYSTEMS, ROADWAYS, AND OTHER AREAS RESULTING FROM CONSTRUCTION ACTIVITIES AS REQUIRED BY THE CLEAN WATER ACT.

CONTRACTOR SHALL KEEP PROJECT AREA AND SURROUNDING AREAS FREE FROM DUST IN ACCORDANCE WITH LOCAL AND STATE POLLUTION CONTROL STANDARDS AND REGULATIONS.

UNLESS OTHERWISE INDICATED, ALL EXISTING VEGETATION AND TOPSOIL SHALL BE REMOVED FROM WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO PLACING FILL.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL THE DISTURBED AREAS RECEIVE APPROPRIATE THICKNESS OF TOPSOIL PRIOR TO THE PLACEMENT OF PERMANENT SEEDING.

INLET PROTECTION SHALL BE INSTALLED ON ALL PROPOSED CULVERTS AND STORM INLETS AT THE TIME OF INSTALLATION, AS APPLICABLE.

CONTRACTOR IS RESPONSIBLE FOR DEWATERING AND DRYING OF AREAS TO BE EXCAVATED OR FILLED.

CONTRACTOR SHALL HAVE PORTABLE PUMP WITH FILTER AVAILABLE THROUGHOUT ALL STAGES OF CONSTRUCTION FOR AREAS OF PONDING.

GRADING AND DRAINAGE NOTES

ALL EARTHWORK, GRADING, AND PAVING OPERATIONS FOR THIS PROJECT SHALL COMPLY WITH THE RECOMMENDATIONS AS PRESENTED IN THE PROJECT GEOTECHNICAL REPORT.

BRING ALL AREAS TO GRADE AS SHOWN ON DRAWINGS. GRADED AREAS SHALL BE REASONABLY SMOOTH, COMPACTED AS SPECIFIED ABOVE AND FREE FROM IRREGULAR SURFACE CHANGES. PROVIDE SMOOTH GRADED SURFACES IN DITCHES AND SWALES WHERE SHOWN. GRADE SO THAT WATER DRAINS AWAY FROM BUILDING PERIMETER AND OFF OF PAVEMENTS.

ALL AREAS WITHIN PROJECT LIMITS SHALL GRADE TO DRAIN. THE SITE WILL BE GRADED TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE PROPOSED BUILDINGS. ALL GRADES WILL SLOPE AWAY FROM THE FINISHED FLOORS. THE GRADE ELEVATIONS IMMEDIATELY ADJACENT TO THE BUILDINGS ARE TO BE 6.0-8.0 INCHES BELOW THE FINISHED FLOOR ELEVATION. THE SLOPE ACROSS ROADWAYS, PARKING AREAS AND DRIVE AISLES WILL VARY FROM 1.0% TO 3.0% EXCEPT AT HANDICAP-ACCESSIBLE PARKING SPACES, CROSSWALKS, LOADING AREAS. TRASH ENCLOSURES. AND THE AIRCRAFT PARKING APRON WHICH ARE 2.0% MAXIMUM IN ANY DIRECTION.

GRADES AND CONTOURS SHOWN REPRESENT FINAL CONSTRUCTED SURFACE. PAVEMENT AND OTHER IMPROVEMENTS MUST BE CONSIDERED WHEN PERFORMING GRADING.

UTILITY RIMS, LIDS, COVERS, OR ACCESS POINTS ARE INTENDED TO BE 1/4" HIGHER THAN PROPOSED GRADE. IN NO CASE SHALL THEY BE COVERED OVER AND CONCEALED BY THE PROPOSED SURFACE MATERIAL. ANY HIDDEN UTILITY BOXES, COVERS, ETC. DISCOVERED DURING CONSTRUCTION SHALL BE ADJUSTED TO MATCH PROPOSED GRADE.

ALL STORM DRAINAGE STRUCTURES SHALL BE REINFORCED, PRECAST CONCRETE UNLESS OTHERWISE NOTED.

TOP OF GRATE AND RIM ELEVATIONS INDICATED FOR DROP INLETS AND MANHOLES ARE AT THE CENTER OF THE GRATE OR COVER UNLESS OTHERWISE NOTED. STORM MANHOLES SHALL BE SUCH THAT THE MANHOLE TOP IS FLUSH WITH ADJACENT GRADES UNLESS OTHERWISE NOTED.

ALL PIPES ENTERING STORM STRUCTURES SHALL BE GROUTED TO ASSURE THE CONNECTION IS WATERTIGHT.

PIPE BEDDING, BACKFILL, AND COMPACTION SHALL BE IN COMPLIANCE WITH PROJECT SPECIFICATIONS.

ALL STORM AND SANITARY PIPING QUANTITIES SHOWN IN THESE PLANS ARE CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPING LENGTHS INCLUDE END SECTIONS WHEN APPLICABLE.

STORM SEWER PIPE SHALL BE RCP, PVC SDR-35, OR HDPE N-12. WHERE DRAINAGE IS SUBJECT TO VEHICULAR LOADING, PIPES SHALL BE REINFORCED CONCRETE PIPE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

• RCP SHALL BE REINFORCED CONCRETE PIPE WITH A MINIMUM CLASS III RATING AND O-RING TYPE RUBBER GASKETED JOINTS.
• PVC STORM PIPE SHALL BE SDR 35, CONFORMING TO ASTM D3034. JOINTS SHALL HAVE FLEXIBLE ELASTOMERIC SEALS PER ASTM D3212

• HDPE STORM PIPE SHALL BE SMOOTH INTERIOR DOUBLE WALL HIGH DENSITY POLYETHYLENE PIPE WITH WATER JOINTS, N12WT, CONFORMING TO AASHTO M294, WITH HDPE FITTINGS CONFORMING TO ASTM F1336. FOR HDPE STORM SEWER UNDER PAVEMENT, CONTRACTOR TO TAKE EXTRA PRECAUTION TO PROVIDE PROPERLY COMPACTED BACKFILL UNDER PIPE HAUNCHES.

ALL STORM LINE JOINTS FOR CONCRETE PIPE SHALL BE FLEXIBLE WATERTIGHT JOINTS AND SHALL HAVE GASKETS CONFORMING TO ASTM C443 STANDARDS. ALL STORM LINE JOINTS FOR PVC PIPE SHALL BE AN INTEGRAL BELL GASKETED JOINT, WHICH FORMS A WATERTIGHT SEAL.

STORMWATER CONTROL MEASURES ARE TO BE INSTALLED AFTER CONSTRUCTION (PHASE) IS COMPLETE AND STABILIZED MEASURES HAVE BEEN IMPLEMENTED. OTHERWISE, STRICT IMPLEMENTATION OF PROTECTIVE EROSION CONTROL MEASURES MUST BE INSTALLED TO PREVENT PREMATURE CLOGGING AND FAILURE.

ALL CONSTRUCTION AREAS SHALL BE STABILIZED AT THE END OF EACH WORKING DAY.

PAVING NOTES

ALL PAVING AND CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS SET FORTH IN PROJECT GEOTECHNICAL REPORT, THESE PLANS, PROJECT SPECIFICATIONS, AND SHALL BE IN COMPLIANCE WITH DEPARTMENT OF TRANSPORTATION REQUIREMENTS.

PROVIDE POSITIVE DRAINAGE IN ALL AREAS. AFTER BINDER HAS BEEN PLACED, WATER SHALL BE USED TO CHECK FOR BIRD BATH CONDITIONS. ANY BIRD BATH LOCATIONS SHALL BE CUT OUT AND REPLACED PRIOR TO PLACEMENT OF PAVEMENT SURFACE COURSE.

A SMOOTH TRANSITION SHALL BE PROVIDED FROM PROPOSED WORK IN THIS CONTRACT TO ALL ADJACENT EXISTING FEATURES.

THE EXISTING ASPHALT EDGE SHALL BE PROPERLY SEALED WITH TACK COAT PRIOR TO PROPOSED PAVING IN ALL AREAS WHERE EXISTING ASPHALT PAVEMENT MEETS PROPOSED ASPHALT PAVEMENT.

GENERAL UTILITY NOTES

THIS PLAN DOES NOT GUARANTEE THE EXISTENCE OF UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, DEPTH, AND SIZE OF OR NON-EXISTENCE OF ALL UNDERGROUND UTILITIES (HORIZONTAL AND VERTICAL) WHETHER THEY ARE SHOWN ON THESE PLANS. EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE WAY THEY ARE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITIES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH CONSTRUCTION, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT THE CONFLICT MAY BE RESOLVED.

CONTRACTOR SHALL COORDINATE WITH ALL REGULATING AUTHORITIES REGARDING THE RELOCATION AND/OR ABANDONMENT OF EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITIES PRIOR TO ANY WORK.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OVERHEAD UTILITY OWNER WHEN WORKING NEAR POLES AND IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH BRACING & SUPPORTING THE POLES DURING CONSTRUCTION.

UTILITY OPERATIONS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. CONNECTION TO UTILITIES SHALL BE DONE WITH THE MINIMUM AMOUNT OF DISRUPTION AND SHALL BE COORDINATED WITH REGULATING AUTHORITY.

CONTRACTOR SHALL PROVIDE/FURNISH SERVICES OF A QUALIFIED PRIVATE UTILITY LOCATOR 48 HOURS PRIOR TO START OF CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR LOCATING, MARKING, AND PROTECTING EXISTING UNDERGROUND UTILITIES, INCLUDING, SANITARY

WATER, STORM, GAS, ELECTRIC, FIBER OPTIC LINES, CATV CABLE LINES, TELEPHONE LINES, ETC., PRIOR TO DIGGING, EXCAVATING, OR ANY OTHER ACTIVITY THAT COULD POSSIBLY IMPACT UTILITIES. CONTRACTOR IS RESPONSIBLE FOR TEST PITS.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION, SIZE, AND ELEVATION OF ALL BUILDING UTILITY CONNECTIONS PRIOR TO INSTALLATION.

CONTRACTOR SHALL VERIFY THE CONNECTION POINTS OF ALL UTILITY LINES (WATER, STORM, SANITARY, TELEPHONE, ELECTRIC, AND GAS) WITHIN THE PROJECT AREA PRIOR TO INSTALLATION OF THOSE LINES TO DETERMINE IF THE CONNECTION CAN BE MADE AS PER THE PLANS. CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE PROPOSED UTILITY CONNECTION CANNOT BE MADE PER THE PLANS.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING PIPE DIAMETER AND MATERIAL OF ALL EXISTING MAINS TO BE TAPPED PRIOR TO PURCHASING THE TAPPING SLEEVE TO INSURE PROPER SIZING.

ALL PIPE LENGTHS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MATERIALS AND APPURTENANCE NECESSARY FOR THE COMPLETE INSTALLATION OF THE UTILITY SYSTEMS.

NO LANDSCAPING OF ANY TYPE SHALL BE PLACED WITHIN A 3.0 FT RADIUS OF ANY FIRE HYDRANT, FIRE DEPARTMENT CONNECTION,

WATER METER, SEWER SERVICE VALVE BOX, PUMP STATION RIM, VALVE VAULT, OR ELECTRIC TRANSFORMER.

UTILITIES AND APPURTENANCES TO REMAIN IN THEIR PRESENT LOCATION SHALL BE ADJUSTED TO PROPOSED GRADE WHERE

ALL PROPOSED UTILITIES SHALL BE LAID IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE PROJECT TECHNICAL SPECIFICATIONS. SHOULD A DISCREPANCY EXIST, THE MORE STRINGENT REQUIREMENTS SHALL CONTROL.

CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10.0 FT HORIZONTAL AND/OR 18.0 INCHES VERTICAL SEPARATION BETWEEN ALL WATER AND SEWER LINES.

UNLESS OTHERWISE SPECIFIED:

NECESSARY.

A. WATER OVER SEWER, 18.0 INCHES MINIMUMB. WATER OVER STORM, 18.0 INCHES MINIMUM

C. STORM OVER SEWER, 24.0 INCHES MINIMUM

UTILITY TRENCHES WITHIN THE ROADWAY SHALL BE BACKFILLED WITH A MINIMUM CBR15 MATERIAL. TRENCH BACKFILL SHALL BE FREE OF STONES AND ANY FOREIGN MATERIAL AND SHALL BE PLACED IN SIX INCH LAYERS COMPACTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

ALL TRENCH EXCAVATION FOR ALL UTILITIES WITHIN TWO FEET OF ANY PAVEMENT SURFACE (INCLUDING SIDEWALK) SHALL BE BACKFILLED WITH GRANULAR BACKFILL IN ACCORDANCE WITH THE UTILITY TRENCH DETAIL INCLUDED IN THESE PLANS.

DETECTABLE TERRA TAPE D IS TO BE INSTALLED APPROXIMATELY 18.0 INCHES BELOW FINISHED GRADE AND DIRECTLY OVER ALL WATER, FIRE, GRAVITY SEWER, AND SEWER FORCE MAIN PIPING.

10-GAUGE STRANDED OR BRAIDED COPPER WIRE SHALL BE AFFIXED TO ALL PVC PIPE. THE TRACER WIRE SHALL BE TERMINATED IN A MANNER THAT MAKES THEM ACCESSIBLE AT ALL MANHOLES, HANDHOLES, PEDESTALS, VALVES, HYDRANT LEGS, OR OTHER TERMINATION POINTS.

CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF TESTING OF ALL LINES IN ACCORDANCE WITH STATE AND LOCAL STANDARDS. ANY DEFICIENCIES NOTED SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL PROVIDE CERTIFICATIONS OF ALL PRESSURE, LEAKAGE, & CHLORINATION TESTS.

CONTRACTOR SHALL NOTIFY THE GOVERNING AUTHORITY OR UTILITY SYSTEM OWNER IMMEDIATELY OF DAMAGES TO EXISTING UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES. AFTER THE GOVERNING AUTHORITY INSPECTS ALL DAMAGES, CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO REPAIR SUCH DAMAGES IN A MANNER THAT WILL RESULT IN MINIMAL IMPACT TO UTILITY USERS. ALL REPAIRS ARE SUBJECT TO APPROVAL BY OWNER OF DAMAGED UTILITY.

CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR THE INSTALLATION AND/OR RELOCATION OF UTILITIES WITHIN THE PROJECT AREAS AND FOR PLACEMENT OF ALL NECESSARY CONDUIT PRIOR TO PAVING OPERATIONS. EXISTING UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT ADVANCE NOTIFICATION TO THE UTILITY OWNER AND USER(S). ALL UTILITY INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS, CODES, AND THE RESPECTIVE UTILITY REQUIREMENTS.

ALL CONSTRUCTION SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE AND/OR UTILITY OWNER, AS REQUIRED. ALL TRENCHES, PIPING, AND TAPS SHALL BE LEFT EXPOSED AND PROTECTED UNTIL INSPECTED AND APPROVED.

CONTRACTOR SHALL PROVIDE A LIST OF SEWER AND WATER SERVICE AS-BUILT MEASUREMENTS TO THE CONTRACTING OFFICER AND TO THE PROJECT ENGINEER AT THE CONCLUSION OF THE JOB.

CONTRACTOR SHALL CLEAN ALL CONDUITS AND PIPES THAT COLLECT DEBRIS, MUD, CONCRETE, TRASH, ETC. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

MANHOLE COVERS FOR ALL UTILITIES SHALL BE CLEARLY LABELED WITH RESPECTIVE UTILITY TYPE CAST (I.E. "WATER", "SANITARY").

PRIVATE WATER NOTES

ALL PIPING LESS THAN 4-INCHES SHALL BE PVC PLASTIC PIPING, ASTM B 1785, SCHEDULE 40 SDR.

ALL PIPING 4-INCHES TO 12-INCHES SHALL BE PVC, AWWA C900 WITH CAST IRON PIPE EQUIVALENT OUTSIDE DIAMETER OR DIP CONFORMING TO ANSI/AWWA C150/C151/ A21.51 WITH INTERIOR CEMENT MORTAR LINING AND AN EXTERIOR ASPHALTIC COATING FOR CORROSION RESISTANCE.

ALL PIPING SHALL PROVIDE A MINIMUM PRESSURE RATING OF 150 PSI.

36.0 INCH MINIMUM COVER SHALL BE PROVIDED OVER ALL DOMESTIC WATER LINES.

48.0 INCH MINIMUM COVER SHALL BE PROVIDED OVER ALL FIRE SERVICE LINES.

GATE VALVES 3-INCHES AND LARGER SHALL BE AWWA C500, C509 OR C515, MUST HAVE RESILIENT SEATING, AND SHALL BE INSTALLED AT APPROPRIATE POINTS TO ALLOW FOR INTERRUPTION OF FLOW.

PROVIDE THRUST RESTRAINT AS REQUIRED AT ALL BENDS, TEES, WYES, STOPS, VALVES, OR CHANGES IN PIPE SIZE. INSTALL RESTRAINTS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

CONCRETE THRUST BLOCKING SHALL NOT OBSTRUCT WEEPHOLES ON ANY FIRE HYDRANT ASSEMBLY, STEEL CASING PIPE, OR BOLTS ON ANY FITTINGS.

FIRE HYDRANTS SHALL BE WET-BARREL TYPE, AWWA C503 OR UL246.

CONTRACTOR SHALL PROVIDE "AS-BUILT" PLANS INCLUDING THE LOCATION OF ALL BRANCHES, TEES, FITTINGS, VALVES, AND HYDRANTS.

PRIVATE SEWER NOTES

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING ANY CONSTRUCTION ON ANY SANITARY SEWER SYSTEM EXTENSION OR MODIFICATION SHALL BE LICENSED BY THE STATE.

ALL SANITARY SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FACILITY SEWER STANDARDS AND SPECIFICATIONS. ADDITIONS, DELETIONS, AND/OR REVISIONS TO THE SANITARY SEWER FACILITIES SHALL NOT BE MADE WITHOUT APPROVAL OF FACILITY.

ALL GRAVITY SEWER PIPING SHALL BE PVC PLASTIC PIPING, ASTM D3034 OR F949, SCHEDULE 40 UNLESS OTHERWISE SPECIFIED.

24.0 INCH MINIMUM COVER SHALL BE PROVIDED OVER ALL PROPOSED GRAVITY SEWER LINES.

MINIMUM INSIDE DIAMETER OF SANITARY SEWER MANHOLES WITH DROP CONNECTIONS IS 5.0 FT.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

TRAFFIC CONTROL NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. REFER TO THE MUTCD FOR LOCATION OF TRAFFIC CONTROL DEVICES, SIGNAGE, STRIPING, AND ASSOCIATED DETAILS.

CONTRACTOR SHALL PROVIDE WARNING SIGNS AT THE LIMITS OF CONSTRUCTION STATING THAT ACCESS IS RESTRICTED TO AUTHORIZED PERSONNEL AND HARD HATS ARE REQUIRED, AS WELL AS WARNING SIGNS TO WARN PEDESTRIANS AND DRIVERS AROUND POTENTIALLY DANGEROUS AREAS.

CONTRACTOR SHALL NOTIFY THE PROPER LOCAL AUTHORITIES, INCLUDING POLICE AND FIRE, AT LEAST 24 HOURS PRIOR TO ANY ROAD BEING CLOSED FOR CONSTRUCTION AND NOTIFY THE CONTRACTING OFFICER AT LEAST 30 DAYS PRIOR TO THE PROPOSED MODIFICATION DATE.

ONCE TRAFFIC CONTROL HAS BEEN INSTALLED AND BEFORE WORK BEGINS, CONTRACTOR SHOULD OBSERVE TRAFFIC FLOW AND MOVEMENTS. IF PROBLEMS OCCUR OR ARE ANTICIPATED, CONTRACTOR SHALL MAKE APPROPRIATE CHANGES TO TRAFFIC CONTROL MEASURES BEFORE WORK BEGINS.

ALL WORK SHALL BE ARRANGED IN A MANNER THAT WILL CAUSE MINIMUM DISTURBANCE TO VEHICULAR AND PEDESTRIAN TRAFFIC.

CONSTRUCTION TRAFFIC SHALL YIELD TO ALL PEDESTRIANS.

ALL CONSTRUCTION VEHICLES, INCLUDING CONTRACTOR EMPLOYEE VEHICLES, SHALL BE LIMITED TO DESIGNATED PARKING AREAS ONLY AS COORDINATED WITH THE FACILITY AND SHALL USE DESIGNATED ACCESS ROUTES AS COORDINATED WITH FACILITY.

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Erik Lloyd Myer

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DATE 03-26-25

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SEQUENCE OF CONSTRUCTION - CIVIL

THE FOLLOWING SEQUENCE OF CONSTRUCTION IS GENERAL AND COVERS MAJOR WORK ITEMS. IT IS NOT INTENDED TO LIMIT THE CONTRACTOR TO CERTAIN MEANS, METHODS, AND/OR TIMES FOR DOING WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SCHEDULING AND PERFORMING HIS/HER WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD THERE BE ANY FORESEEN SIGNIFICANT CONFLICTS WITH THE INTENT OF THIS SEQUENCE AND SHALL PROVIDE IN WRITING TO THE ENGINEER RECOMMENDATIONS FOR ALTERING THIS SEQUENCE.

- 1. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO THE START OF CONSTRUCTION.
- 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PROPOSED WORK TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
- 3. CONTRACTOR SHALL PERFORM SUBSURFACE UTILITY INVESTIGATION PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL CALL SUNSHINE (811) AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- 4. CONTRACTOR SHALL SET UP A PRE-CONSTRUCTION MEETING WITH THE PERMIT APPROVING AUTHORITIES AND INSPECTOR AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.
- 5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK REQUIRING ENGINEERING CERTIFICATIONS WITH THE ENGINEER OF RECORD.
- 6. INSTALL SAFETY HAZARD FENCE AROUND ANY CONSTRUCTION OPERATION THAT POSES ANY TYPE OF HAZARD IF AREA IS LEFT UNATTENDED. THE FENCE MUST, AT A MINIMUM, BE OF A DURABLE REFLECTIVE UV RESISTANT MATERIAL AND REMOVED UPON COMPLETION AND ACCEPTANCE OF WORK.
- 7. ESTABLISH AREAS OF STAGING & STOCKPILE AND ENCAPSULATE PERIMETER WITH SILT FENCE AND/OR SOCK FILTERS. TEMPORARILY SEED STOCKPILE. ALL EARTHEN STOCKPILES GREATER THAN TEN FEET IN HEIGHT OR HAVING SIDE SLOPES GREATER THAN 3:1 SHALL BE ENCAPSULATED BY A DOUBLE ROW OR SILT FENCE AND/OR SOCK FILTERS. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. LOCATIONS MAY BE MODIFIED AS APPROVED BY THE DESIGNATED INSPECTOR.
- 8. ANY AND ALL MATERIAL OR DEBRIS TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND MAY BE TRANSPORTED TO A SEDIMENT CONTROLLED DISPOSAL AREA.
- 9. ESTABLISH A WORKING PERIMETER WITH SILT FENCE AND TREE PROTECTION. SILT FENCE AND TREE PROTECTION ARE TO BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES ONE THIRD HEIGHT TO THE TOP OF THE BARRIER. WHERE PUBLIC SIDEWALK EXISTS, CONTRACTOR SHALL ENSURE THAT SILT FENCE DOES NOT IMPEDE PEDESTRIAN TRAFFIC AND PROVIDE TEMPORARY BYPASS ROUTES, AS NECESSARY.
- 10. ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE ARE NOT TO BE DISTURBED AND SHALL BE LEFT IN AN EXISTING STATE.
- 11. INSTALL INLET/CULVERT INLET AND/OR OUTLET PROTECTION ON ALL STORMWATER CONVEYANCE SYSTEMS RECEIVING RUNOFF FROM CONSTRUCTION ACTIVITIES.
- 12. INSTALL OTHER TEMPORARY EROSION CONTROL MEASURES AS REQUIRED IN AREAS RECEIVING RUNOFF FROM CONSTRUCTION ACTIVITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR TO ENSURE COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. CHECK REGULARLY FOR SETTLEMENT, EROSION, AND DISPLACEMENT TO ENSURE THEY ARE STRUCTURALLY SOUND AND HAVE NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. REPAIR OR REPLACE IMMEDIATELY. SEDIMENT SHALL BE REMOVED IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL MINIMUM STANDARDS AND SPECIFICATIONS.
- 13. ALL E&S MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATION. THESE E&S MEASURES SHALL BE INSTALLED BEFORE CONSTRUCTION AND MAINTAINED UNTIL FINAL VEGETATIVE COVER IS ESTABLISHED. E&S MEASURES ARE TO BE CHECKED WEEKLY UNLESS OTHERWISE SPECIFIED AND AFTER EACH SIGNIFICANT RAINFALL EVENT.
- 14. CONTRACTOR SHALL CONTROL DUST THROUGHOUT THE PROJECT DURATION, WITHIN THE PROJECT AREA AND AT ALL OTHER AREAS AFFECTED BY PROJECT CONSTRUCTION.

- 15. DO ALL WORK REQUIRED TO CLEAR AND GRUB THE SITE WITHIN THE LIMITS SPECIFIED ON THIS PLAN. REMOVE EXISTING STRUCTURES, PAVED SURFACES, UTILITIES, VEGETATION, TREES, FENCING, AND OTHER FACILITIES AS REQUIRED TO PREPARE THE SITE FOR CONSTRUCTION. BRACE LIGHT POLES AND OTHER STRUCTURES TO REMAIN WITHIN OR IMMEDIATELY ADJACENT TO THE PROPOSED WORK.
- 16. EXCAVATE UNSUITABLE MATERIALS IN BUILDING, PARKING, AND SIDEWALK AREAS. REPLACE WITH SAND MATERIAL JUDGED SUITABLE AND AS DIRECTED BY A LICENSED GEOTECHNICAL ENGINEER.
- 17. ROUGH GRADE. TEMPORARY WORKING ELEVATIONS ARE TO BE DETERMINED BY THE CONTRACTOR. INSTALL TEMPORARY DRAINAGE MEASURES AS NEEDED THROUGHOUT CONSTRUCTION TO ENSURE THE SITE DRAINS AND TO PREVENT PONDING OF WATER AND SOIL EROSION AS SITE CONDITIONS CHANGE. THE CONTRACTOR SHALL ENSURE ADEQUATE STABILIZATION MEASURES ARE PROVIDED THROUGHOUT CONSTRUCTION.
- 18. CONTRACTOR SHALL ENSURE ADEQUATE STABILIZATION MEASURES ARE PROVIDED THROUGHOUT CONSTRUCTION, INCLUDING FOR CONSTRUCTION VEHICLES, AS TO NOT FURTHER DAMAGE EXISTING SECTIONS TO REMAIN.
- 19. SET BUILDING PAD(S).

- 20. INSTALL UNDERGROUND UTILITIES AND STORM DRAINAGE, PROVIDING APPROVED SEDIMENT PROTECTION AT NEW DRAINAGE CONVEYANCE STRUCTURES AS REQUIRED. IF TEMPORARY DIVERSIONS ARE REQUIRED, TEMPORARY SEDIMENT FILTRATION AND VELOCITY CONTROL MEASURES MUST BE INSTALLED.
- 21. INSTALL CURB AND/OR GUTTER, OR EDGE RESTRAINTS.
- 22. CONTRACTOR SHALL VERIFY THE BASE IS DRY AND MEETS ALL MATERIAL, INSTALLATION, AND GRADE SPECIFICATIONS AND ENSURE THAT THE BASE IS READY TO SUPPORT THE IMPOSED LOADS.
- 23. PLACE BASE STONE IN PARKING AND SIDEWALK AREAS.
- 24. PAVE PARKING AREAS AND SIDEWALK AREAS.
- 25. INSTALL PERMEABLE PAVERS IN PARKING AREAS DURING FINAL LOT GRADING WITH EQUIPMENT WORKING FROM THE SIDES. CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS TO PREVENT CLOGGING AND COMPACTION TO THE BASE AND THE SUBBASE. CONSTRUCTION MAY ONLY BEGIN AFTER ENTIRE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED AND TEMPORARY EROSION CONTROLS ARE INSTALLED TO DIVERT RUNOFF AWAY FROM PAVER AREAS UNTIL CONSTRUCTION IS COMPLETE. AFTER FINAL GRADING IS COMPLETE, DEEPLY TILL BOTTOM AND SIDES 6-12 INCHES TO PROVIDE WELL AERATED, HIGHLY POROUS SURFACE TEXTURE. PAVERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND SPECIFICATIONS.
- 26. ESTABLISH FINAL GRADES FOR POSITIVE DRAINAGE. ALL DISTURBED AREAS SHALL BE GRADED TO A SMOOTH SURFACE AND FREE FROM ALL ROCKS GREATER THAN 3-INCHES IN DIAMETER, DIRT CLOGS, EQUIPMENT TRACKS, RUTS, AND BUMPS.
- 27. INSTALL FINAL SITE IMPROVEMENTS, INCLUDING PAVEMENT MARKINGS AND SIGNAGE.
- 28. INSTALL PERMANENT LANDSCAPING AND SEEDING. ALL AREAS TO BE LANDSCAPED AND/OR SEEDED SHALL BE LOOSENED TO A DEPTH OF 6 INCHES MINIMUM.
- 29. AFTER USE OF STOCKPILE AREA IS COMPLETED, REMOVE ALL TEMPORARY EQUIPMENT, MATERIALS, AND DEBRIS FROM THE SITE. EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LAWFUL MANNER.
- 30. AFTER VEGETATION AND PERMANENT BEST MANAGEMENT STRATEGIES HAVE BEEN ESTABLISHED, SITE HAS BEEN RESTORED, AND UPON AUTHORIZATION FROM THE DESIGNATED INSPECTOR, REMOVE REMAINING E&S MEASURES WITHIN 30 DAYS AFTER FINAL SITE IS STABILIZED WITH VEGETATIVE COVER.
- 31. CONTRACTOR SHALL PROVIDE CONSTRUCTION CERTIFICATIONS AS REQUIRED UPON COMPLETION OF CONSTRUCTION.



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Erik Lloyd Myers

State of Florida:

Sign & Seal:
State of Florida

No 96658

AR 93574

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No 96658

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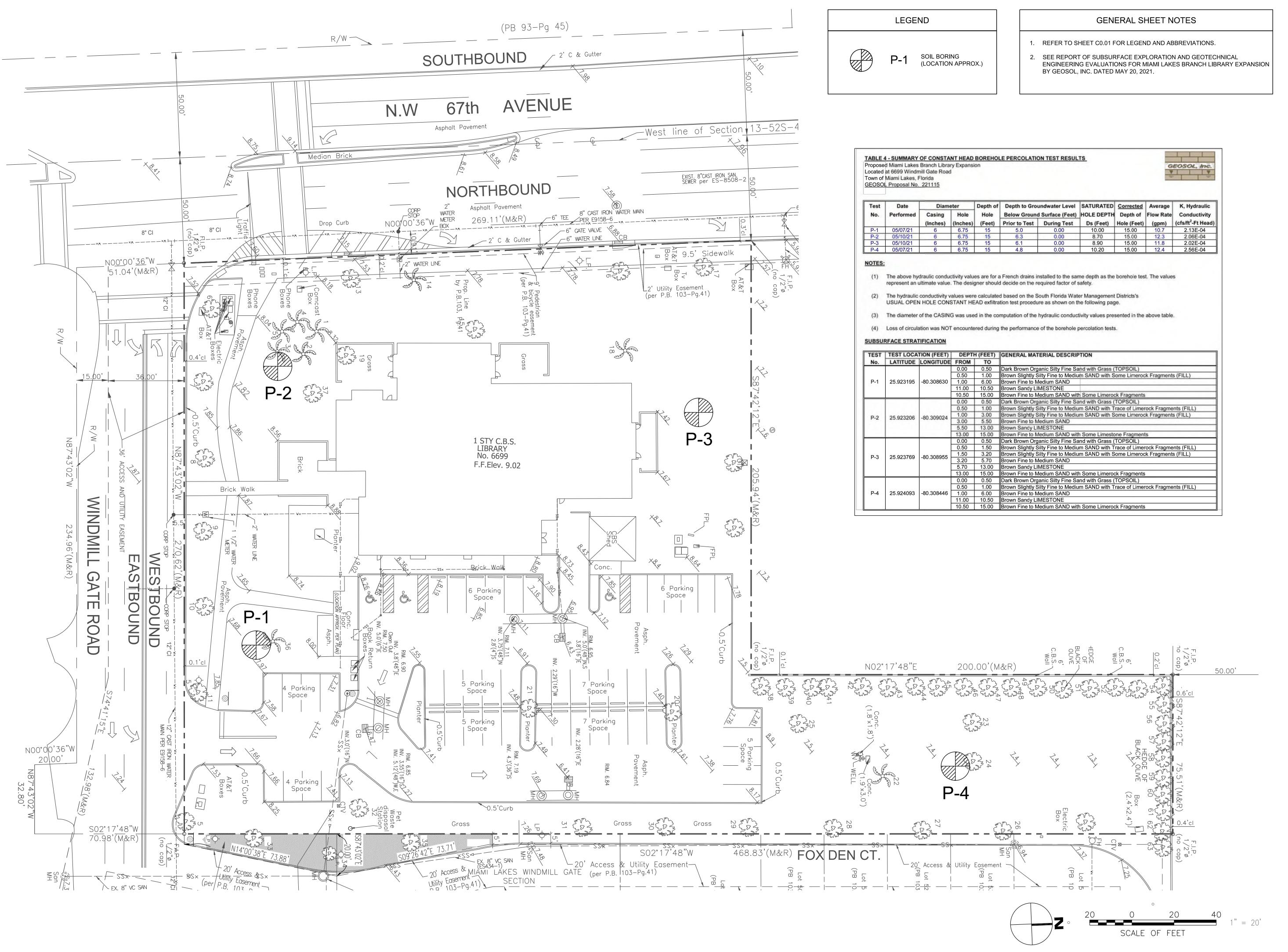
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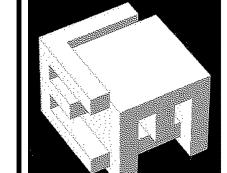
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Miami, FL 33156 786-391-2646

Erik Lloyd Myers

Suite 1204

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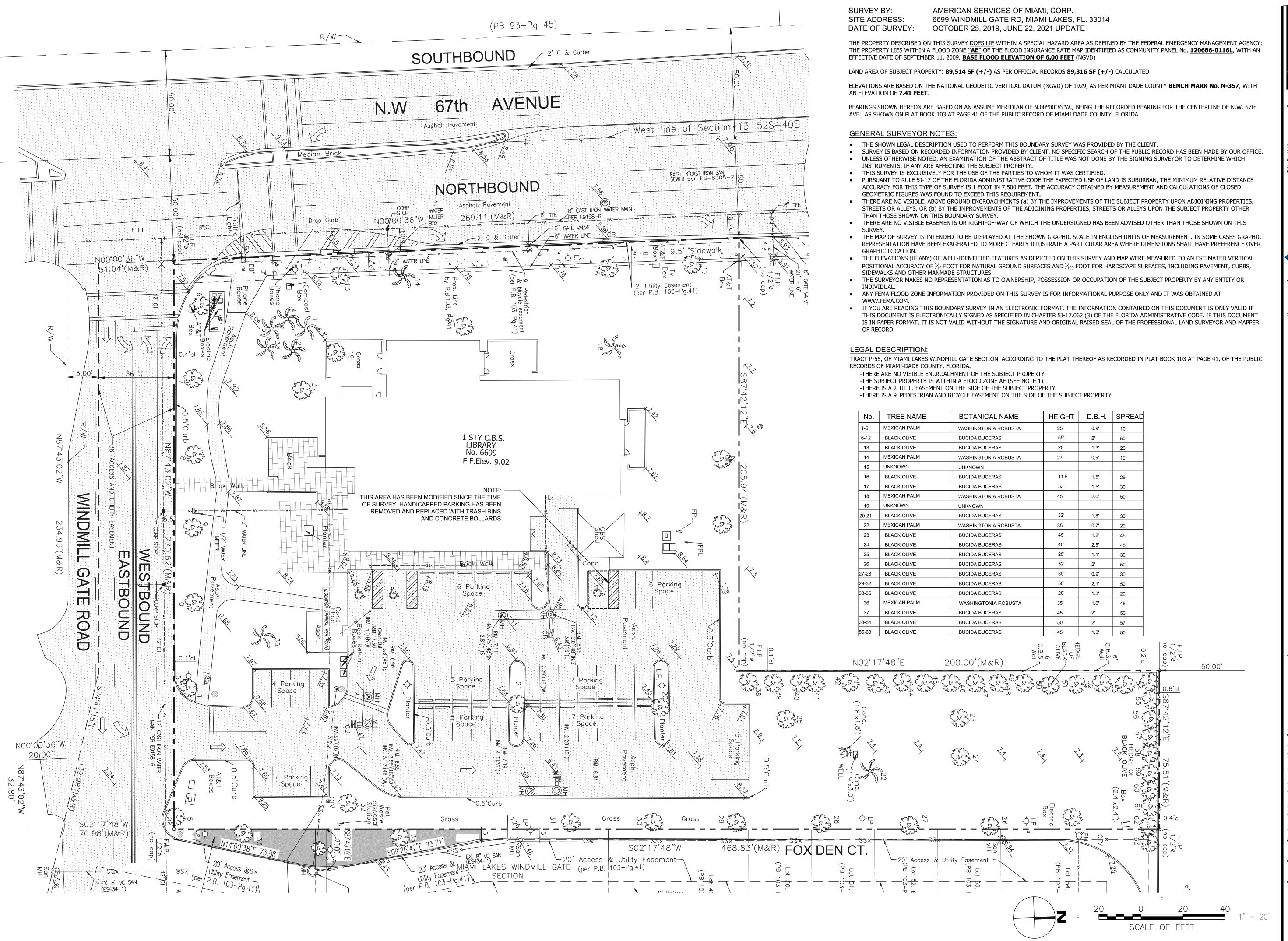
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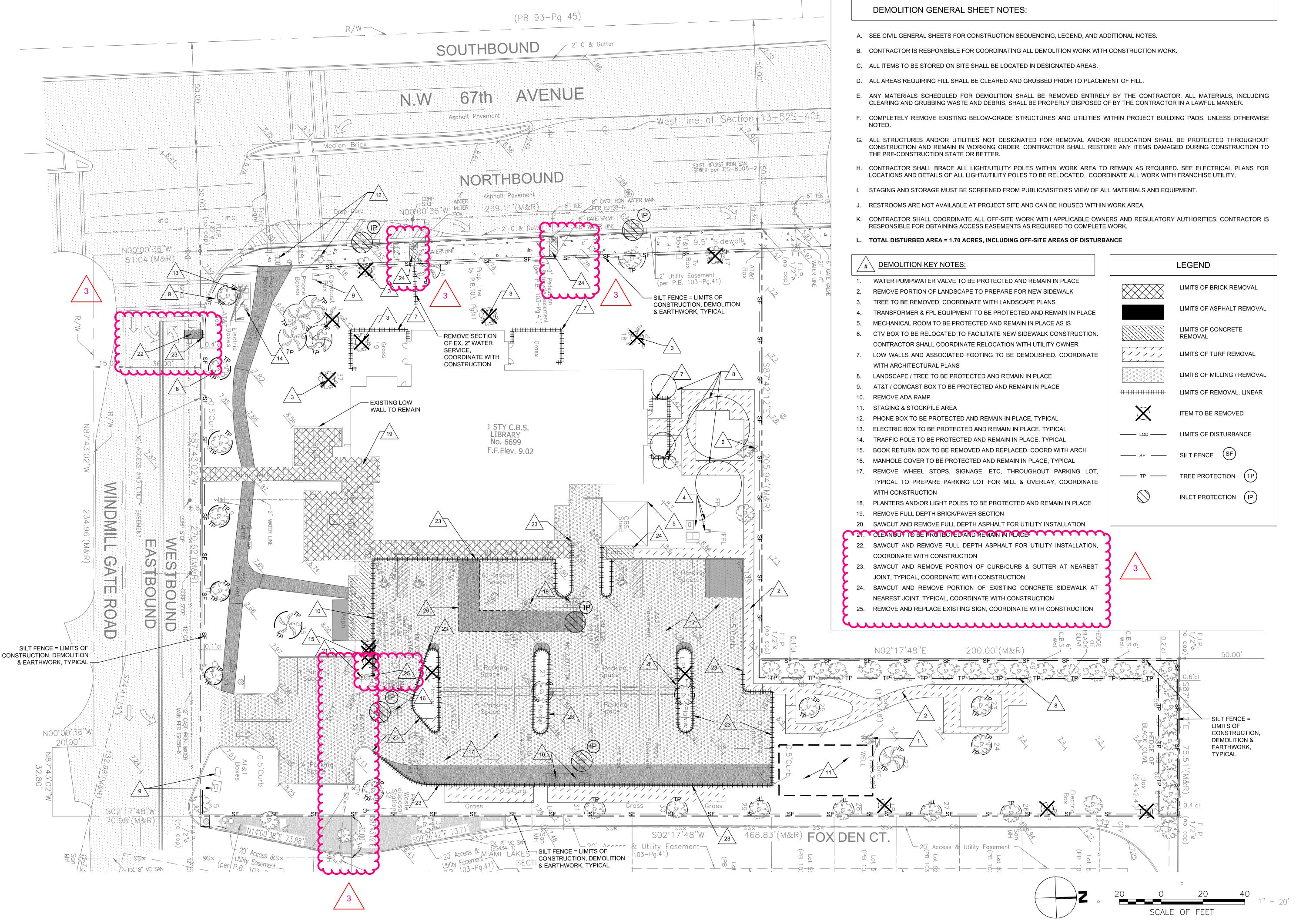
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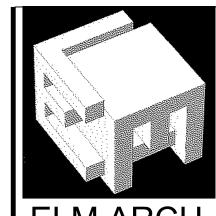
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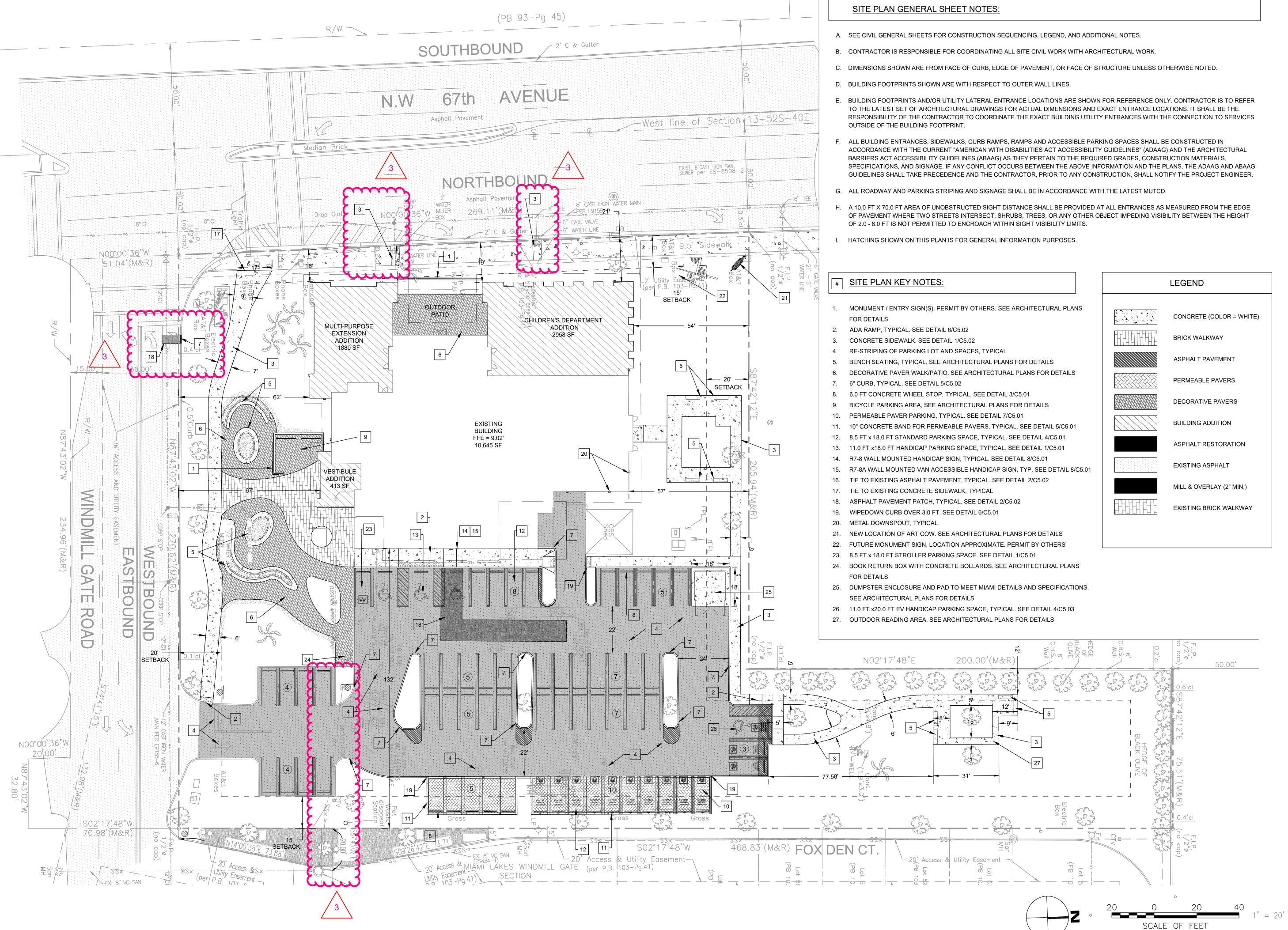
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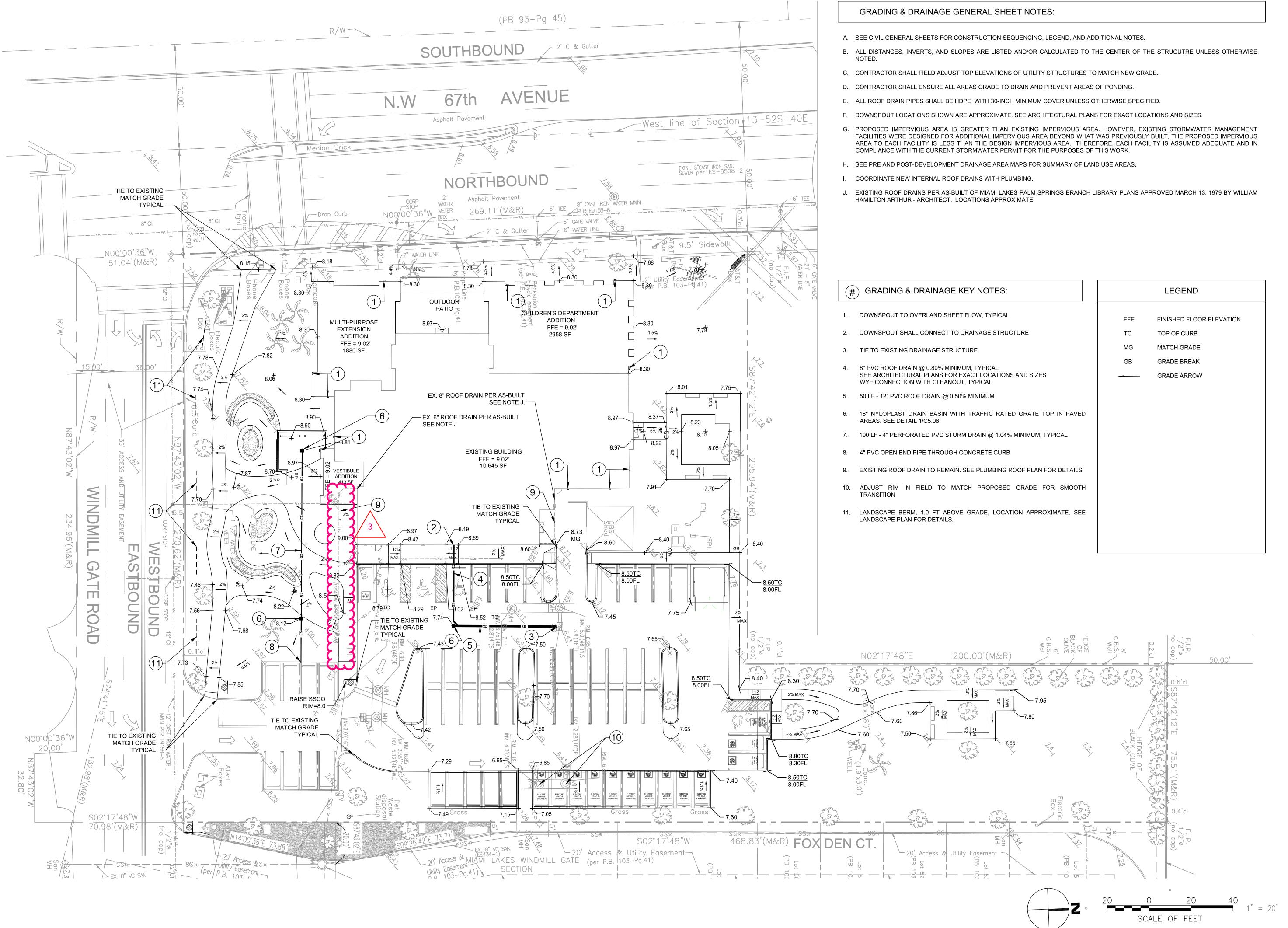
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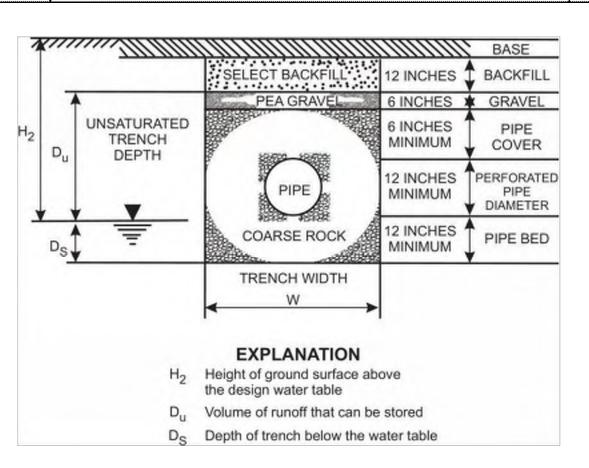
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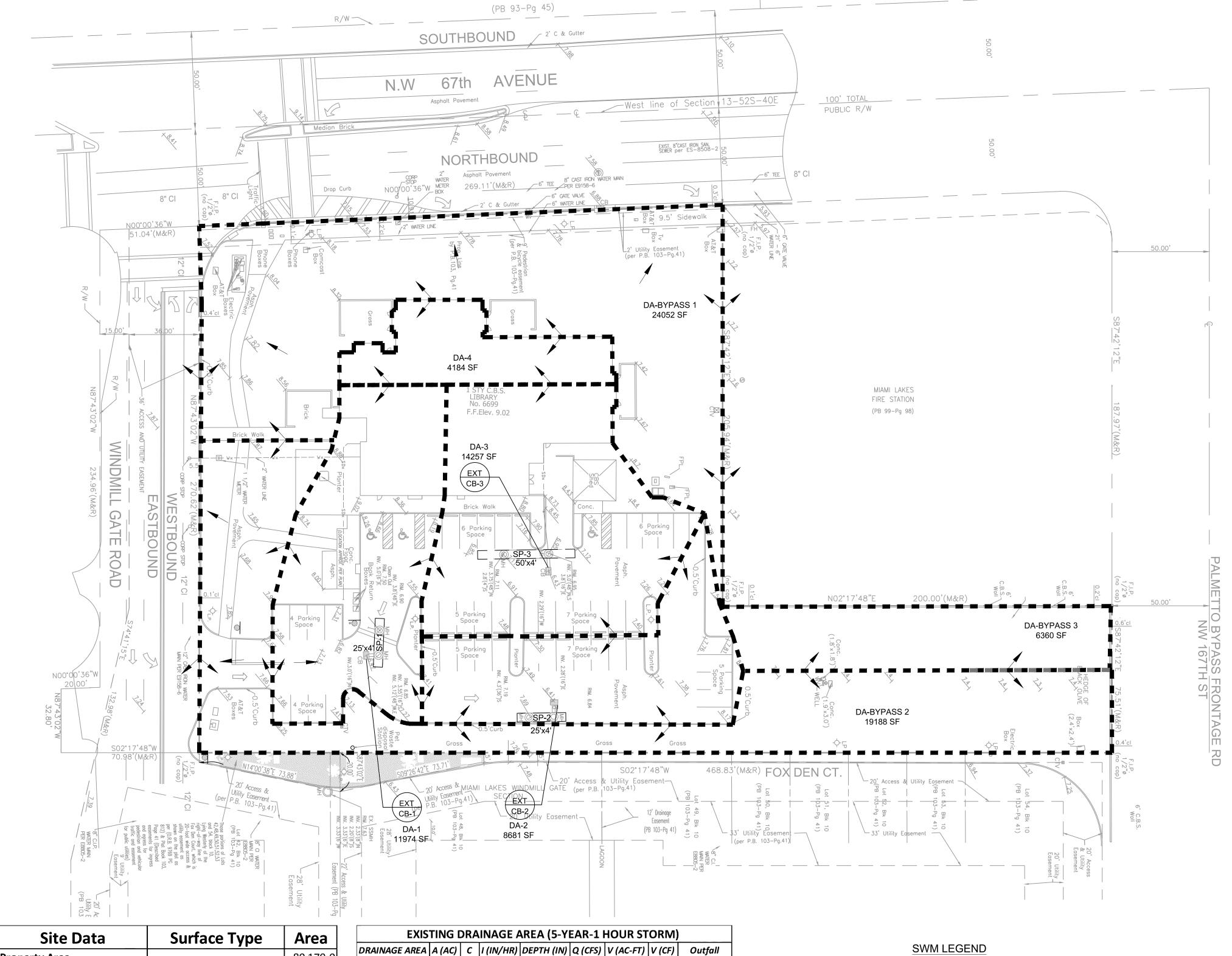
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	Description	Units					
H ₂	H 2 THE HEIGHT OF THE GROUND SURFACE ABOVE THE DESIGN WATER TABLE						
К	HYDRAULIC CONDUCTIVITY	CFS/FT ² -FT.HEAD					
D _s	THE DEPTH OF THE TRENCH BELOW WATER TABLE	FT					
D _u	UNSATURATED TRENCH DEPTH	FT					
W	TRENCH WIDTH	FT					
L	TRENCH LENGTH	FT					
$oldsymbol{V}_s$	VOLUME RUNOFF THAT CAN STORED $V_S = 0.5 W \ D_u L$	FT ³					
0.5	AVERAGE VOID RATIO WITHIN THE TRENCH (STORAGE IN THE PERFORATED PIPE HAS BEEN NEGLECTED)	UNITLESS					
V _B	THE VOLUME OF RUNOFF EXFILTRATED OUT OF THE BOTTOM OF THE TRENCH WITHIN 1 HOUR $V_B = KH_2WL(3,600)$	FT ³					
V _S	THE VOLUME OF RUNOFF EXFILTRATED OUT OF THE SIDES OF THE TRENCH WITHIN 1 HOUR $V_S = 2KL[D_u(H_2-0.5D_u) + D_sH_2](3,600)$	FT ³					
V	SETTING THE WATER-QUALITY VOLUME EQUAL TO THE VOLUME OF RUNOFF STORED IN THE TRENCH PLUS THE VOLUME EXFILTRATED WITHIN 1 HOUR $V = 0.5WD_uL + KH_2WL(3,600) + 2KL[D_u(H_2-0.5D_u) + D_sH_2] (3,600).$	FT ³					
BASE	ASSUMED 4" ASHPHALT	IN					
SELECT BACKFILL	ASSUMED 12" BACKFILL	IN					
WATER TABLE	AVERAGE WET SEASON WATER TABLE EVEVATION IS 5.8 FT	FT					





Site Data		Surface Type		Area		EXISTING DRAINAGE AREA (5-YEAR-1 HOUR STORM)									
		Jana	, р с		⊣ ₁	DRAINAGE AREA	A (AC)	С	I (IN/HR)	DEPTH (IN)	Q (CFS)	V (AC-FT)	V (CF)	Outfall	
Property Area				89,179	_	DA-1	0.275	0.9	3.20	3.3	0.791	0.076	3293	SP-1	
	C.	oncrete	Sidewalk	3,093	.5	DA-2	0.199	0.9	3.20	3.3	0.573	0.055	2387	SP-2	
		Jiici CtC	Wall	357	.0	DA-3	0.327	0.9	3.20	3.3	0.942	0.090	3921	SP-3	
			Sidewalk	1,724	.8	DA-4	0.096	0.9	3.20	3.3	0.276	0.026	1151	LANDSCAF	,E
Impervious Area	A	Asphalt	Driveway	22,310	4	DA-BYPASS 1	0.563	0.4	3.20	3.3	0.716	0.155	6739	LANDSCAF	Έ
	R _I	rick Sidewa		3,161	_	DA-BYPASS 2	0.440	1	l	3.3	0.507	0.121	 	LANDSCAF	
				- 		DA-BYPASS 3	0.146	0.3	3.20	3.3	0.140	0.040	1749	LANDSCAF	'E
	В	Building Roof		11,127	.9	TOTAL DA	2.05								
	To	Total Impervious			.9		1	J							
Green Space Area	La	ındscape		47,404	.1										
		Exist	ing Water-	Quality a	and W	/ater-Quan	tity C	apa	acity of	the site					
Existing SWM Devices W		L	H ₂	D u	D s	К	V _s	(Sto	ored)	V _B	V_S (Ex	filtrated f	from si	des)	V
SOAK PIT 1 (SP-1)	4	25	5.8	4.47	9.20	2.0200E-04		223.	33	421.78		2519.4	12	31	L64.!
SOAK PIT 2 (SP-2)	4	25	5.8	4.47	9.20	2.0200E-04		223.	33	421.78		2519.4	12	31	L64
	_														

2.0200E-04

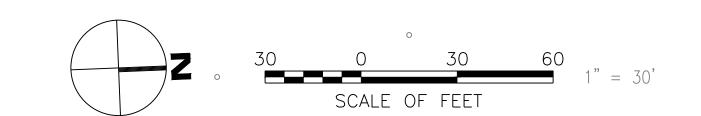
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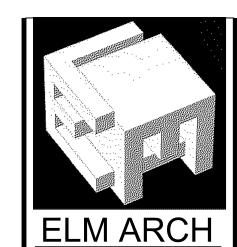
SOAK PIT 3 (SP-3)



EXISTING DRAINAGE DIVIDE

SP-X EXISTING SOAK PIT (EXFILTRATION)

(PB 28-Pg 55)



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Qualifier: State of Florida: Erik Lloyd Myers

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DESIGN NARRATIVE:

THE PROJECT INCLUDES THE EXPANSION OF THE MIAMI LAKES BRANCH LIBRARY LOCATED AT 6699 WINDMILL GATE ROAD IN MIAMI LAKES FLORIDA. THE PROPOSED IMPROVEMENTS INCLUDE THREE BUILDING ADDITIONS TO THE EXISTING ONE-STORY BUILDING, RESTRIPING AND REPAIR OF THE EXISTING PARKING LOT, NEW PERMEABLE PAVER PARKING SPACES NEW LANDSCAPING, NEW WALKWAYS WITH BENCHES AND SEATING, AND ADDITIONAL UTILITY SERVICES

EXISTING STORMWATER FACILITIES INCLUDE THREE EXISTING SOAK PITS IDENTIFIED ON SITE IN THE PARKING LOT THAT CAPTURE AND INFILTRATE STORMWATER RUNOFF FROM THE ENTIRE SITE.

IN ORDER TO DETERMINE THE HYDRAULIC CONDUCTIVITY (K) VALUES FOR USE IN DRAINAGE EVALUATION, A PERCOLATION TEST WAS PERFORMED ON SITE BY GEOSOL, INC. AND THE RESULT HAS BEEN PROVIDED IN THE REPORT ON MAY 20, 2021.

THE GROUNDWATER DEPTHS ENCOUNTERED RANGED FROM ABOUT 5.0 TO 6.3 FEET BELOW EXISTING GRADES WITH AN AVERAGE OF ABOUT 5.8 FEET.

THE TEST RESULTS FROM FOUR SOIL BORING LOCATIONS ON SITE INDICATES THE LOWEST HYDRAULIC CONDUCTIVITY RATE IS 0.000202 (CFS/FT²-FT HEAD) AND THE HIGHEST RATE IS 0.000256 (CFS/FT²-FT HEAD).

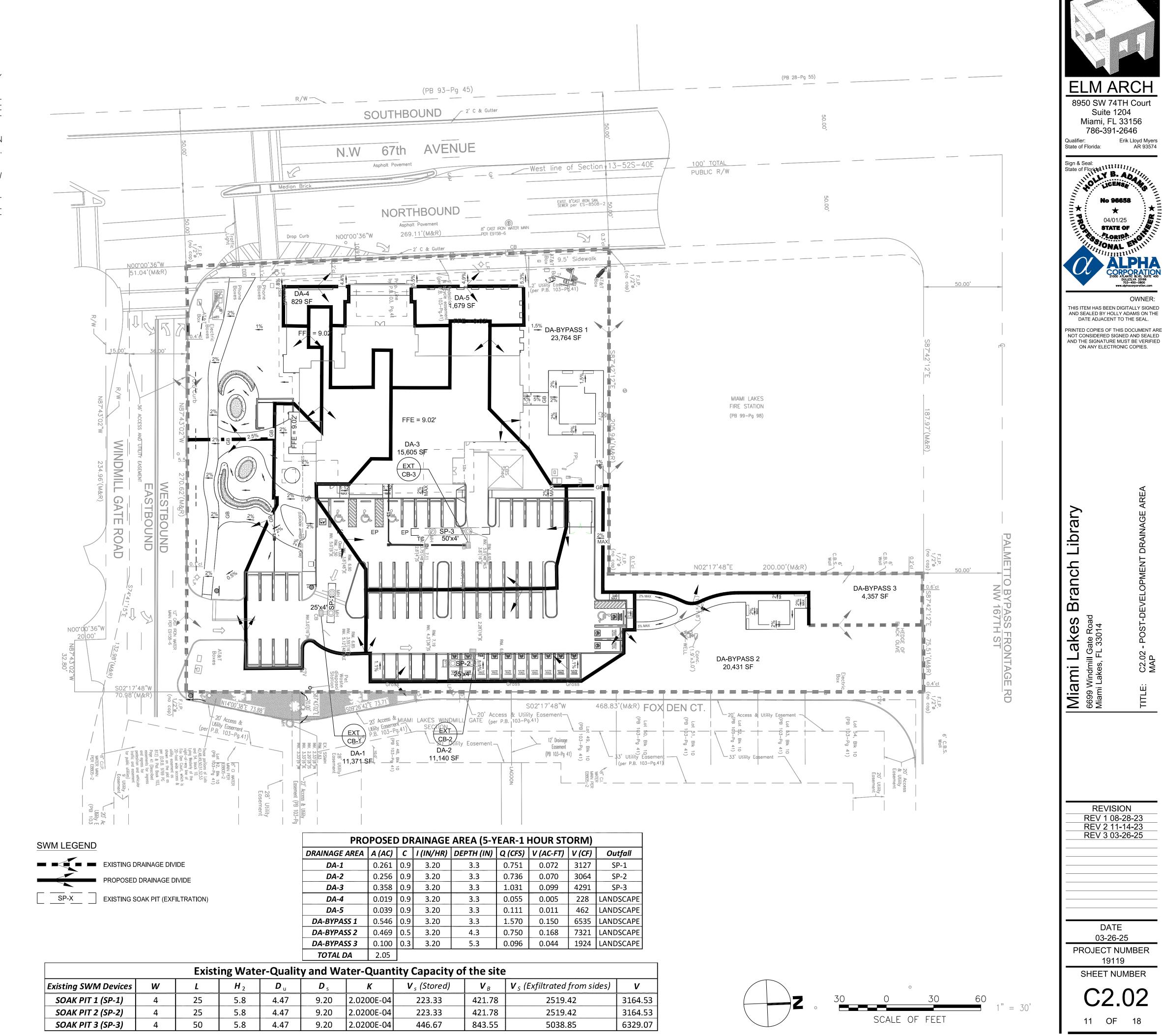
THE SIZE OF SOAK PITS AND LOCATION OF THEM ON SITE WAS INDICATED ON THE RECORD AND AS-BUILT DRAWING AND VERIFIED BY SURVEYOR ON SITE.

THE EXISTING AND PROPOSED RESULTS HAVE BEEN SUMMARIZED IN THE TABLE BELOW AND INDICATES THAT THE DRAINAGE AREA-3 HAS BEEN IMPROVED TO MAXIMIZE AND USE THE ENTIRE CAPACITY OF EXISTING SOAK PIT 3.

RESULT SUMMARY										
EXISTIN	,	PROPO	SED SUM	MARY	EXISTING SOAK PITS					
DRAINAGE AREA	A (AC)	V (CF)	Outfall	A (AC)	V (CF)	Outfall	Existing SWM Devices	V (CF)		
DA-1	0.275	3293	SP-1	0.261	3127	SP-1	SOAK PIT 1 (SP-1)	3164.53		
DA-2	0.199	2387	SP-2	0.256	3064	SP-2	SOAK PIT 2 (SP-2)	3164.53		
DA-3	0.327	3921	SP-3	0.358	4291	SP-3	SOAK PIT 3 (SP-3)	6329.07		

DA-3	0.327	3921	SP-3	0.358	4291	SP-3	SOAK PIT 3 (SP-3)	6329.07					
	Description												
H 2		THE HEIGHT OF THE GROUND SURFACE ABOVE THE DESIGN WATER TABLE											
K	HYDRAI	HYDRAULIC CONDUCTIVITY											
D _s	THE DE	PTH OF	THETE	RENCH BE	LOW WA	TER TABI	.E	FT					
D u	UNSATU	JRATEI	D TREN	CH DEPTH				FT					
W	TRENCH	t WIDT	Ή					FT					
L	TRENCH	LENG	TH					FT					
V _s		VOLUME RUNOFF THAT CAN STORED $V_S = 0.5W \ D_u L$											
0.5	1				THE TREN	•	RAGE IN THE	UNITLESS					
V _B	THE TRI	THE VOLUME OF RUNOFF EXFILTRATED OUT OF THE BOTTOM OF THE TRENCH WITHIN 1 HOUR $V_B = KH_2WL(3,600)$											
V _S	THE VO TRENCH $V_S =$	FT ³											
V	SETTING OF RUN EXFILTR V= 0.5	FT ³											
BASE	ASSUM	IN											
SELECT BACKFILL	ASSUM	IN											
WATER TABLE	AVERAC	SE WET	r seaso	N WATER	TABLE E	/EVATIO	N IS 5.8 FT	FT					

Site Data	Surfa	Area	
Property Area			89,179.0
Impervious Area	Concrete	Sidewalk	8,317.9
	Concrete	Seating	790.8
	Asabalt	Sidewalk	0.0
	Asphalt	Parking Lot	20,342.8
	Brick Sidewalk		5,014.9
	Pervious Paver	2,030.9	
	Building Roof	15,896.0	
	Total Impervio	us	52,393.2
Green Space Area	Landscape	36,785.8	



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REVISION

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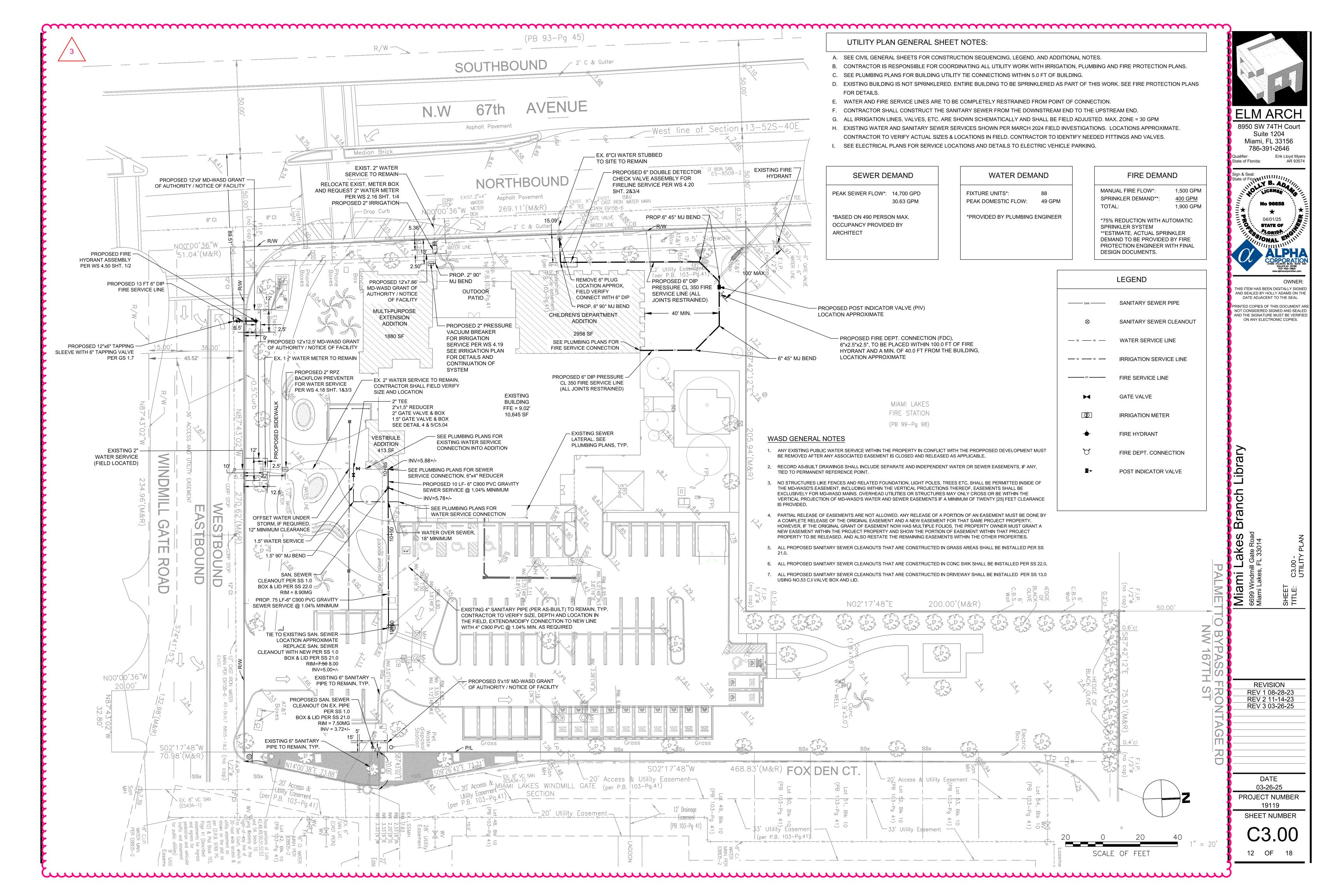
DATE

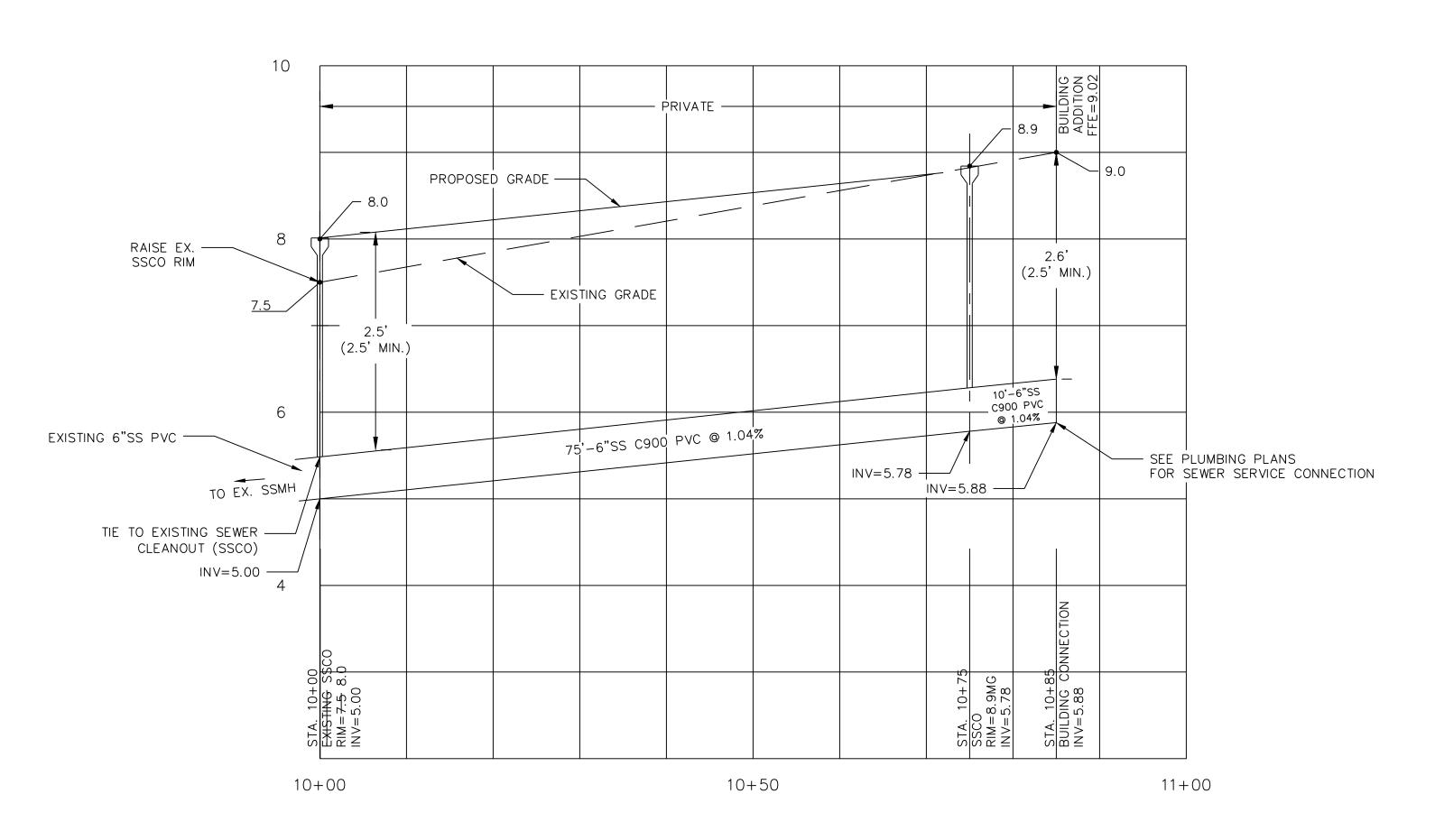
03-26-25

19119

11 OF 18

Erik Lloyd Myers

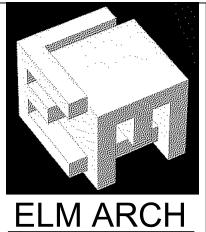




SEWER PROFILE

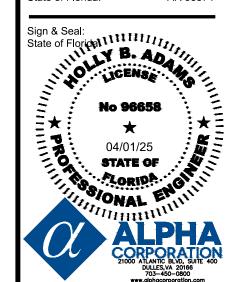
STA. 10+00 - 10+85

SCALE: 1"=10' HORIZONTAL SCALE: 1" = 1' VERTICAL



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Qualifier: State of Florida: Erik Lloyd Myers AR 93574



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DATE 03-26-25 PROJECT NUMBER 19119

SHEET NUMBER

C3.01 18 OF 18

STORMWATER POLLUTION PREVENTION PLAN

NARRATIVE DESCRIPTION

The Stormwater Pollution Prevention Plan (SWPPP) Narrative Description contains references to the Contract Documents, the State of Florida Erosion & Sediment Control Designer and Reviewer Manual (E&SC Manual), the FDOT Design Standards, and other sheets of these Construction Documents. The complete SWPPP is comprised of several items including: this narrative description, the documents referenced in this narrative, the Contractor's approved Erosion Control Plan (ECP) prepared and submitted in accordance with the Contract Documents, and reports of inspections made during construction. All of which are complementary to the signed and certified SWPPP. The Contractor is required to maintain copies of the aforementioned items on site, including all applicable permits.

1. Site Description

- a. Nature of Construction Activities: This project consists of exterior and interior improvement of existing library including additional building square footage, improved facade, new roof, new windows, new courtyard, new landscape and irrigation and construction of new walking paths, and parking lot reconfiguration.
- b. The Contractor shall provide in the ECP a detailed sequence of construction for all construction activities. Each construction phase requires the installation of perimeter controls, after clearing and grubbing as necessary for the installation of controls, prior to beginning work. The Contractor shall follow the sequence of major activities below, unless the Contractor proposes an alternative sequence that is equal or improves the control of erosion and trapping sediment, and is approved by the Inspector.
- 1) Earthwork for proposed surface and underground improvements, construction of improvements.
- 2) Final grading, landscaping, and stabilization.

c. Area Estimates

- 1) Total Site Area: 2.05 AC
- 2) Total Pre-Develoment Pervious Area: 1.09 AC
- 3) Total Pre-Development Impervious Area: 0.96 AC
- 4) Total Post-Development Pervious Area: 0.85 AC
- 5) Total Post-Development Impervious Area: 1.20 AC
- d. Existing data describing the soil or the quality of any discharge from the site and an estimate of the size of the drainage area for each discharge point
- 4) The generated discharge does not leave the site. Additionally, the proposed work does not create additional discharge due to the site infiltration rates, thus no changes to hydrology occur.
- e. Site Map: The associated construction plan sheets shall be used as the site map. Locations of the required information are described below.
- 5) The slopes and drainage divides of the site can be seen on the construction plan sheets
- 6) The areas to be disturbed are indicated on the construction plan sheets. Any areas where permanent features are shown to be constructed above or below ground will be disturbed.
- 7) The areas of the site that are outside of the limits of construction are not expected to be disturbed
- 8) Temporary sediment control devices shall be installed at all location where disturbance of soils will occur. Additional measures may be required as necessary where stormwater runoff has the potential to reach surface waters or offsite collections facilities.
- 9) Areas of permanent stabilization are shown on the construction plan sheets
- f. Discharge Point(s): This site does not have a discharge point.

2. Controls

- a. Erosion & Sediment Controls: The Contractor shall describe in the ECP the proposed stabilization and structural practices. The Contractor may choose to accept the following guidelines or modify them in the ECP, subject to approval by the Inspector. As work progresses, the Contractor shall modify the plan to adapt to seasonal variation, changes in construction activities, and the need for better management practices. For each construction phase install perimeter controls after clearing and grubbing necessary for installation of controls but before beginning other work for the construction phase. Remove perimeter controls only after all upstream areas are stabilized. In addition:
- Furnish and place inlet protection systems to control erosion and siltation.
- Install soil tracking prevention devices (STPDs) at all common areas where construction vehicles will be entering and exiting the construction site.
- Sediment barriers shall be installed at the toe of slope of embankments and at locations as described in the Erosion and Sediment Control Details and the E&SC Manual.
- Inlet protection systems shall be used for all existing and proposed inlets subject to sediment runoff.
- Clearing and grubbing operations will be controlled as to minimize unprotected erodible areas exposed to weather. Areas outside the limits of construction shall not be disturbed.
- Excavated materials shall not be deposited in locations where the material could be washed away by high water, rain or stormwater runoff. Stockpiles shall be covered or encircled with sediment barriers.
- 1) Stabilization Practices: In the ECP, the contractor shall describe the stabilization practices proposed to control erosion. The Contractor shall initiate all stabilization measures as soon as practical, but in no case more than 7 days in portions of the site where construction activities have temporarily or permanently ceased. The stabilization practices shall include at least the following, unless otherwise approved by the Inspector.
- a) Temporary: Sod, mulch, and artificial coverings in accordance with the Contract Documents.
- b) Permanent: Asphalt or concrete surface, sod, roadside swales, and endwalls in accordance with the Contract documents.
- 2) Structural Practices: In the ECP, the Contractor shall describe the proposed structural practices to control or trap sediment and otherwise prevent the discharge of pollutants from exposed areas of the site. Sediment controls shall be in place before disturbing soil upstream of the control. The structural practices shall include at least the following, unless otherwise approved by the Inspector.
- a) Temporary: Inlet protection systems, sediment barriers and soil tracking prevention devices as per the E&SC Manual and the Contract Documents. See Erosion and Sediment Control details for more information. All sediment controls shall be in place prior to any soil disturbing activity.
- b. Permanent Stormwater Management Controls: Stormwater runoff will be conveyed in grass swale systems and roadway trench drains.
- c. Control for Other Potential Pollutants: The Contractor shall practice good housekeeping by instituting a clean, orderly construction site. The following controls shall be implemented to further reduce pollution at the project site:
- 1) Waste Disposal: In the ECP, the contractor shall describe the proposed methods to prevent the discharge of solid materials, including building materials, to waters of the United States. The proposed methods shall include at least the following, unless otherwise approved by the Inspector.
- a) The Contractor shall demonstrate the proper disposal of all construction waste generated within the project limits. Waste may include, but not limited to, vegetation from clearing and grubbing, packaging materials, scrap building materials, litter from traveling public, sewage from sanitary facilities, herbicides and pesticides and their containers, and hydrocarbon products. The Contractor shall designate a waste collection area onsite and delineate the area on the SWPPP Site Map.
- b) Sanitary/Septic facilities shall be provided and maintained in a neat and sanitary condition, for the use of the Contractor's employees as necessary to comply with the requirements and regulations of the State and local boards of health. A licensed Sanitary Waste Management Contractor as required by State regulations shall collect all sanitary waste for the portable units.
- c) The Contractor will provide litter control and collection within the Project limits during construction activities. The Contractor shall provide an adequate number of litter containers with lids at the staging, stockpile, and field office areas. Waste collection will be scheduled so that containers are emptied prior to overflow. Spilled litter containers shall be cleaned up immediately.

- 2) Offsite Vehicle Tracking & Generation of Dust: In the ECP, the Contractor shall describe the proposed methods for minimizing offsite vehicle tracking of sediments and generating dust. The proposed methods shall include at least the following, unless otherwise approved by the Inspector.
- a) Stabilizing construction entrances as necessary according to the E&SC Manual and the Contract Documents.
- b) The Contractor shall take measures to insure the cleanup of sediments that have been tracked by vehicles or have been transported by wind or stormwater around the site or onto nearby roadways.
- c) Removing excess dirt from roads daily.
- d) Using roadway sweepers during dust generating activities such as excavation and milling operations.
- e) Loaded haul trucks shall be covered with tarpaulin.
- 3) In the ECP, the Contractor shall describe the proposed procedures to comply with applicable State and Local regulations for waste disposal, and sanitary sewer or septic systems.
- 4) Application of Fertilizer and Pesticides
- a) The application and handling of herbicides and pesticides shall be in compliance with the manufacturer's recommended method and in accordance with FDOT Standard Specifications for Road and Bridge Construction as modified by the Contract Documents.
- 5) Toxic Substances and Materials
- a) In The ECP, the Contractor shall provide a list of toxic substances and materials that are likely to be used on the project, and provide a plan addressing the generation, application, migration, storage, and disposal of these substances.
- b) Contractor shall provide equipment necessary to contain and clean up spills of hazardous materials, including petroleum products. Spills shall be contained and cleaned up immediately. Spilled material and the equipment used to clean up the spill shall not come in contact with surface waters or be introduced into stormwater systems.
- c) The Contractor shall provide a project specific Hazardous Materials Spill Control Plan in order to address the handling of hydrocarbon and hazardous materials.
- d) Petroleum products shall be stored in covered areas with secondary containment surrounding the primary containers.
- e) Toxic/hazardous materials exposed during construction shall be handled per the FDOT Standard Specifications for Road and Bridge Construction as modified by the Contract Documents.
- 3. Maintenance: In the ECP, the Contractor shall provide a plan for maintaining all erosion and sediment controls throughout construction.

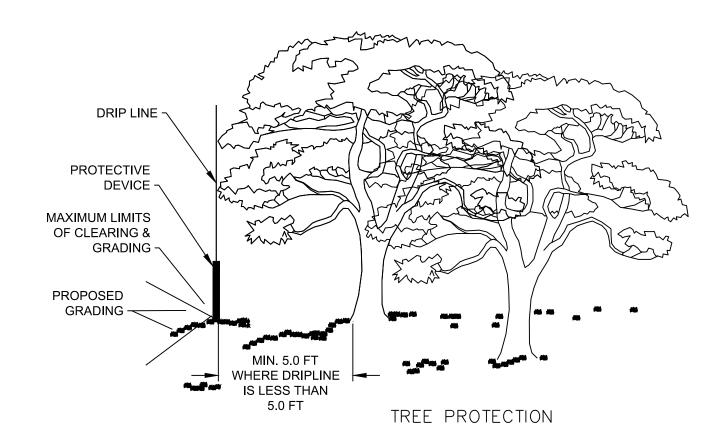
 The maintenance plan at a minimum shall comply with the following:
- a. Sediment Barriers: 12 Months, or as required, replacement interval in accordance with Contract Specifications.
- b. Inlet Protection Systems: Check after every rainfall event. Clean if clogging occurs.
- c. The maintenance of these devices shall occur until the Inspector has deemed an area permanently stabilized. It will be the responsibility of the Contractor to remove erosion and sediment control devices.

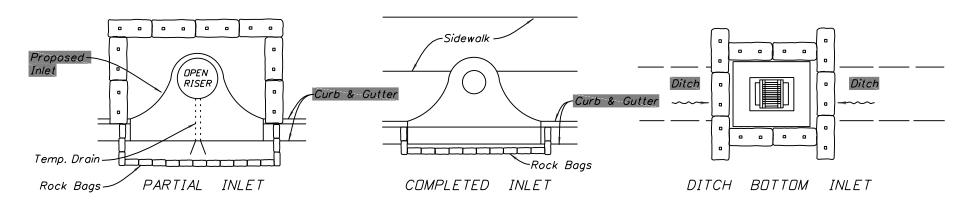
4. Inspection

- a. The Contractor shall be required to conduct daily inspections of all temporary and permanent erosion and sediment control measures within the project area. The Contractor shall maintain, repair and/or replace these items as necessary.
- b. The Owner's Representative shall have an inspector review and submit a written report for the project's temporary and permanent erosion and sediment controls for the items listed below at least once every 7 calendar days and/or within 24 hours of a storm that produces 0.5 inches or greater of rain.
- 1) Points of discharge to municipal separated storm systems.
- 2) Disturbed areas that have not been stabilized.
- 3) Areas used for storage of materials that are exposed to precipitation.
- 4) Structural controls.
- 5) Stormwater management systems.
- 6) Construction entrances.
- 7) Check that the approved Erosion Control Plan has been adhered to.
- 8) Where sites have been stabilized, inspections shall be conducted at least once every month.
- c. The Contractor shall initiate repairs within 24 hours of inspections that indicate items are not in working order.
- d. If inspections indicate that the installed stabilization and structural practices are not sufficient to minimize erosion, retain sediment, and prevent discharging pollutants, the Contractor shall provide additional measures, as approved by the Owner.

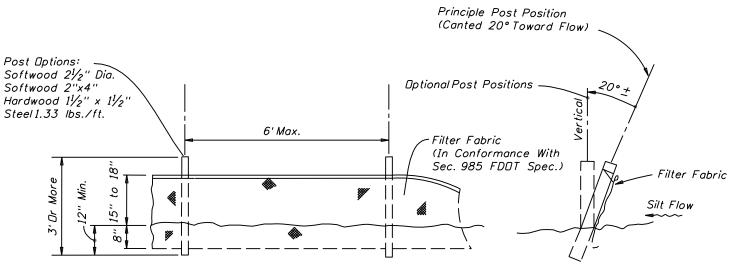
5. Non-Stormwater Discharges

- a. In the ECP, the Contractor shall identify all anticipated non-stormwater discharges (except flows from fire fighting activities). The Contractor shall describe the proposed measures to prevent pollution from any identified non-stormwater discharges.
- b. If contaminated soil or groundwater is encounterd during construction, the Contractor is to cease operations in that area and contact the Miami-Dade County Regulatory and Economic Resources Compliance Desk, at (305) 372-6955.

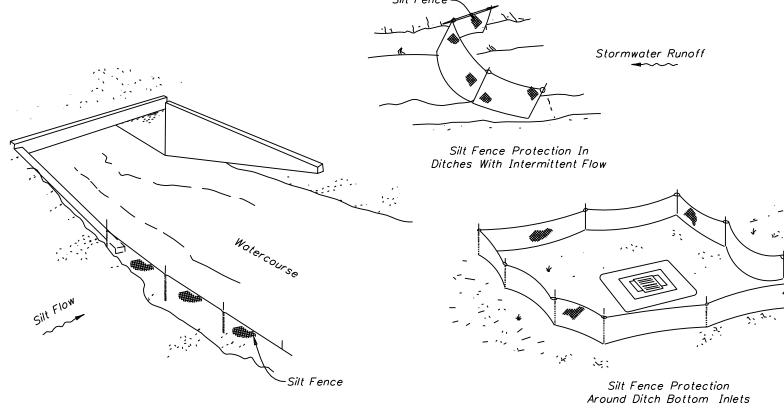




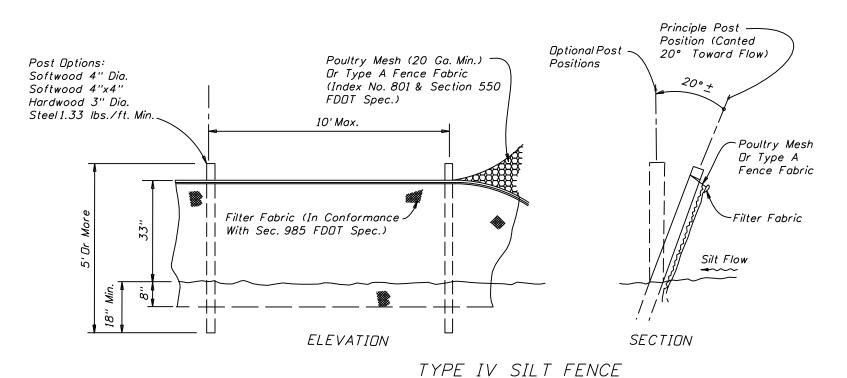
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

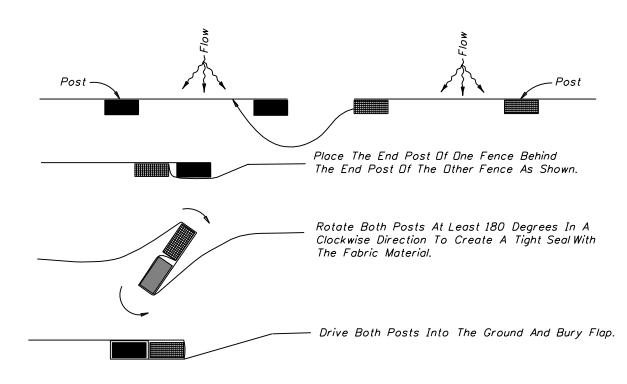


ELEVATION SECTION
TYPE III SILT FENCE



SILT FENCE APPLICATIONS

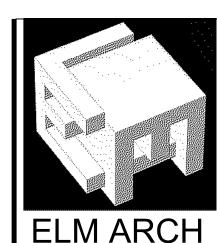




PLAN VIEW JOINING TWO SILT FENCES

NOTES FOR SILT FENCES

- Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt fence shall be in accordance with Chart 1, Sheet 1.
- 2. Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travellanes or off the right of way.
- 3. Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
- 4. Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.
- 5. Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (LF).



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Qualifier: Erik Lloyd Myers State of Florida: AR 93574



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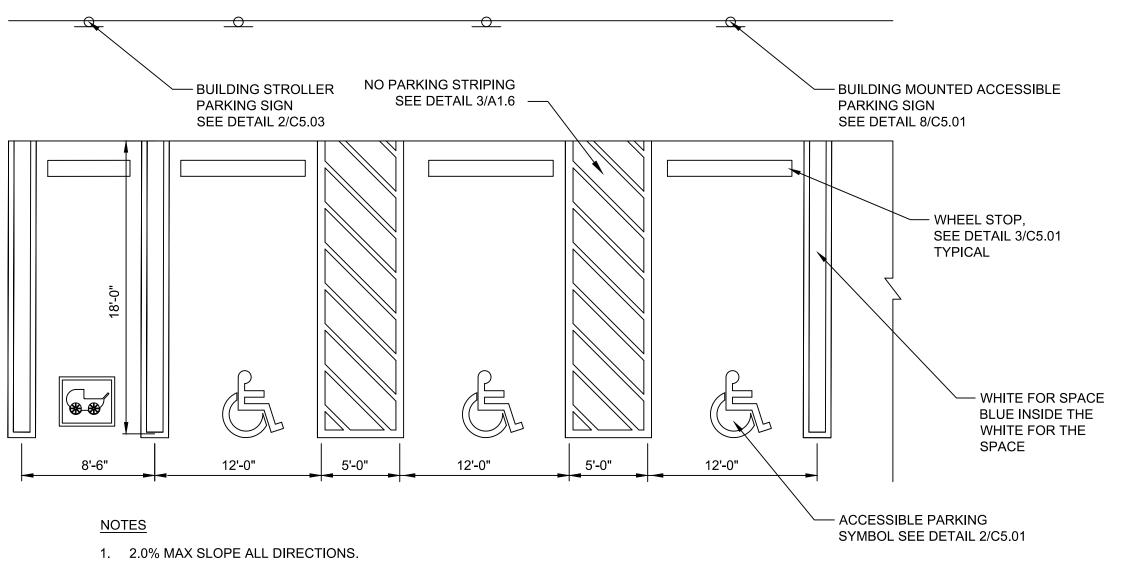
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REV 3 03-26-25

DATE 03-26-25

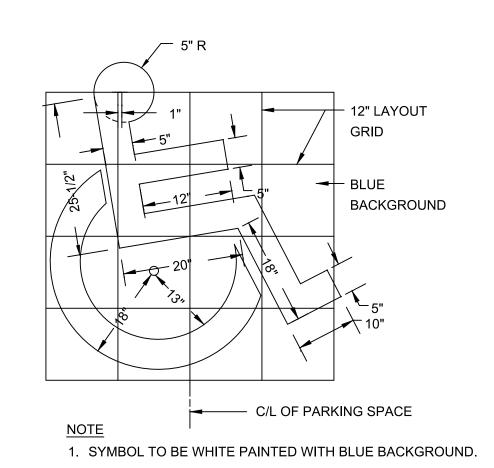
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SHEET NUMBER

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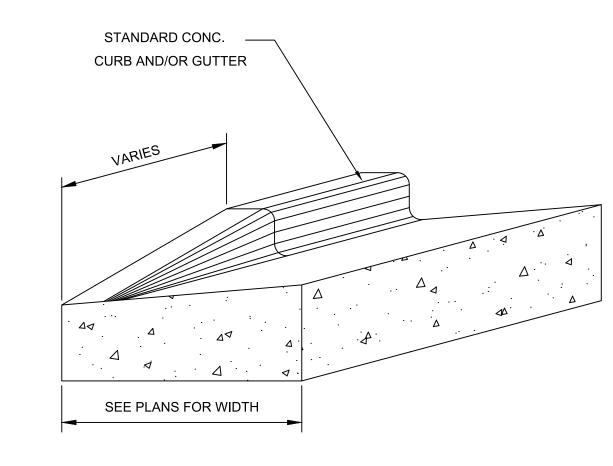


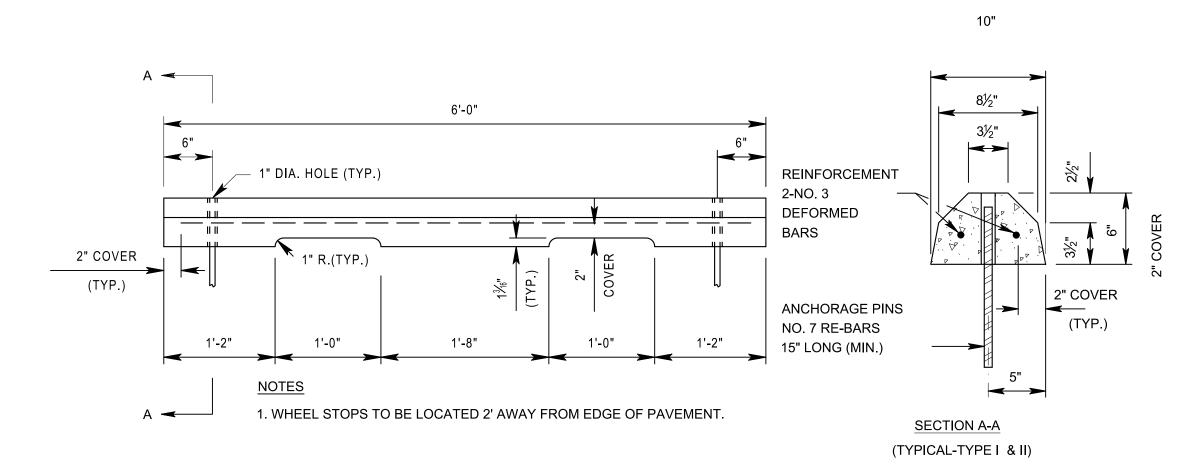
2. CONTRACTOR SHALL COORDINATE ALL PAVEMENT MARKINGS WITH THE COORDINATING OFFICER PRIOR TO COMMENCEMENT OF MARKING.

ACCESSIBLE PARKING PAVEMENT MARKING SCALE NTS

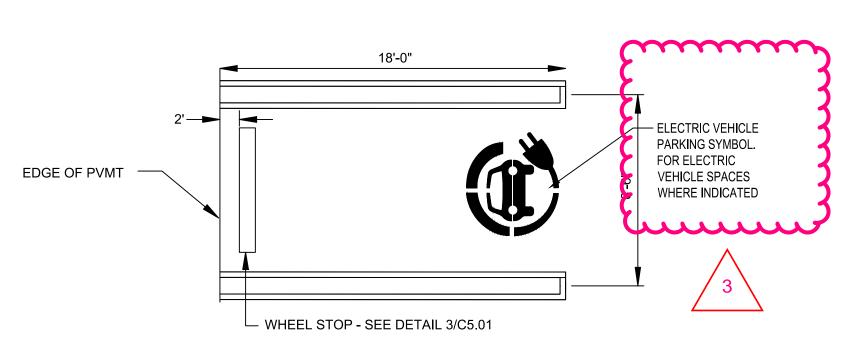


ACCESSIBLE PARKING SYMBOL SCALE NTS



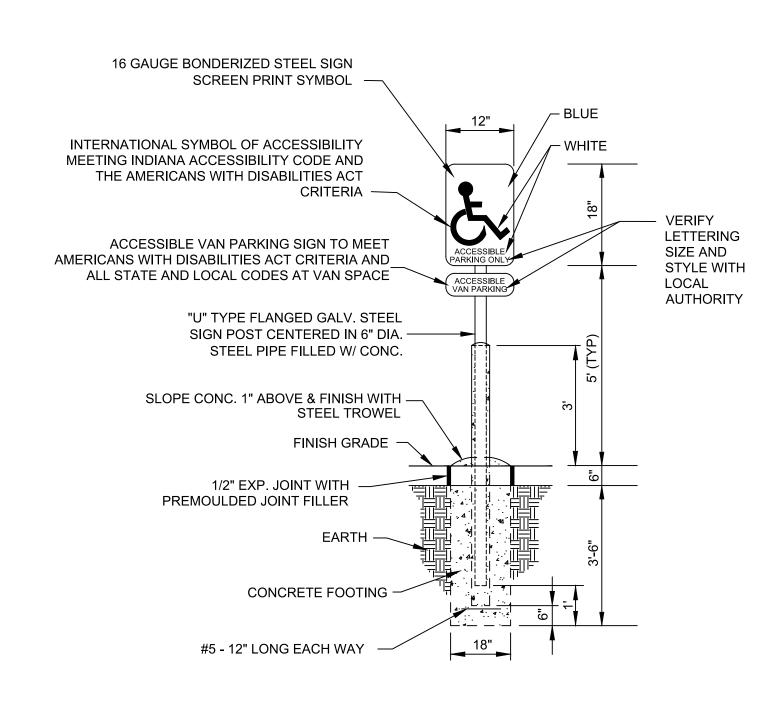


CONCRETE WHEEL STOP



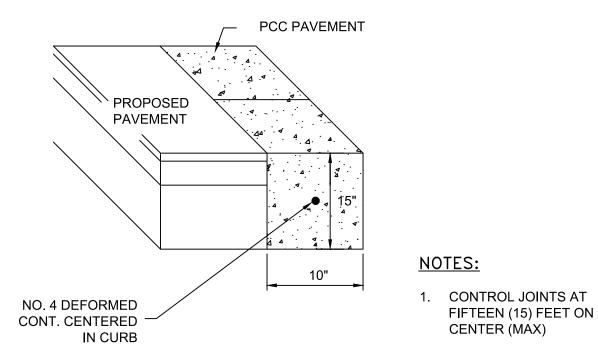
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TYP PARKING STRIPING SCALE NTS

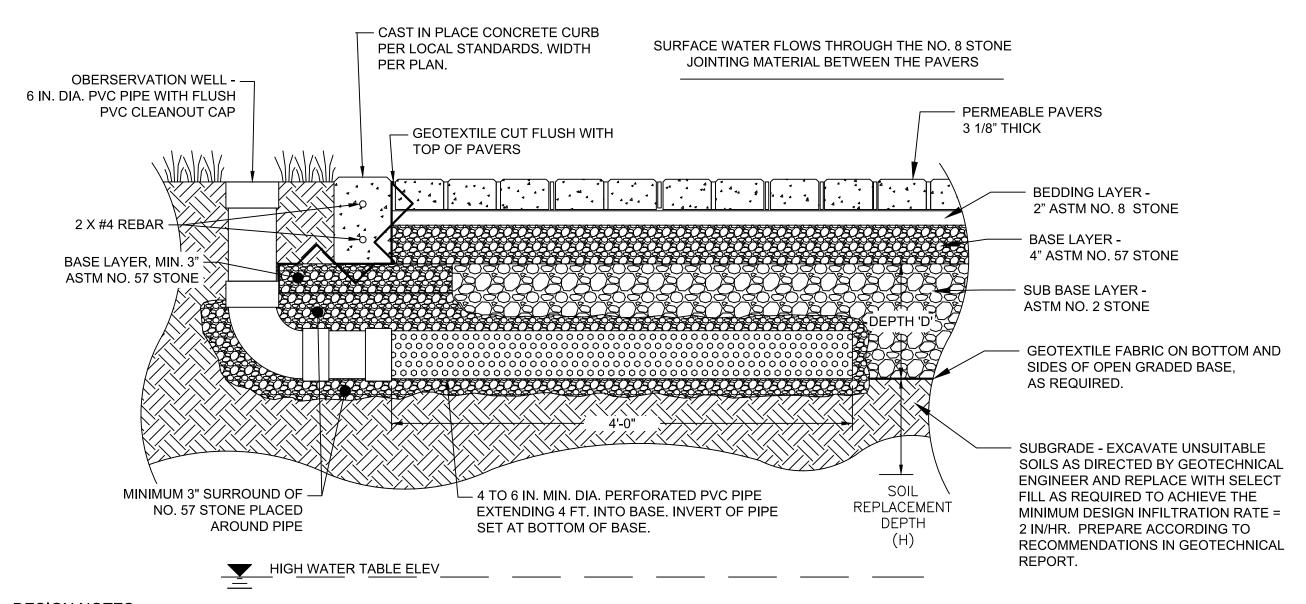


ADA PARKING SIGN

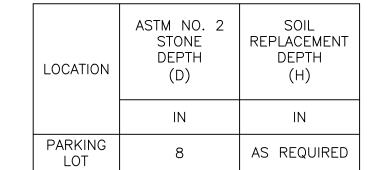
SCALE NTS



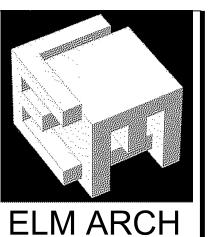
CONCRETE PAVER BAND SCALE NTS



- 1. DEPTH OF SUBBASE SUBJECT TO SITE SPECIFIC HYDRAULIC AND STRUCTURAL REQUIREMENTS
- 2. PAVER DIMENSIONS SUBJECT TO ASPECT AND PLAN RATIO REQUIREMENTS BASED ON TRAFFIC LOADING.
- 3. GEOTECHNICAL ENGINEER NEEDS TO BALANCE STRUCTURAL STABILITY AND SOIL INFILTRATION WHEN RECOMMENDING SUBGRADE CONDITIONS.
- 4. WHERE THE FILTRATION GEOTEXTILE IS USED, VERIFY THAT THE MATERIAL MEETS REQUIREMENTS OF AASHTO M-288.
- ASTM NO. 2 STONE MAY BE SUBSTITUTED WITH NO. 3 OR NO. 4 STONE
- DRAIN PIPES ARE REQUIRED WITHIN THE AGGREGATE BASE.
- OBSERVATION PORT SHALL BE LOCATED AT LOWEST SUBGRADE ELEVATION TO MONITOR WATER LEVEL AND INFILTRATION RATE.
- 8. OBSERVATION PORTS SHOULD BE FITTED WITH A FLUSH PVC CLEANOUT CAP.

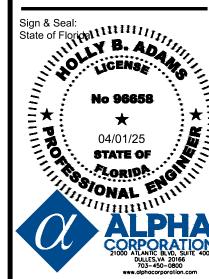






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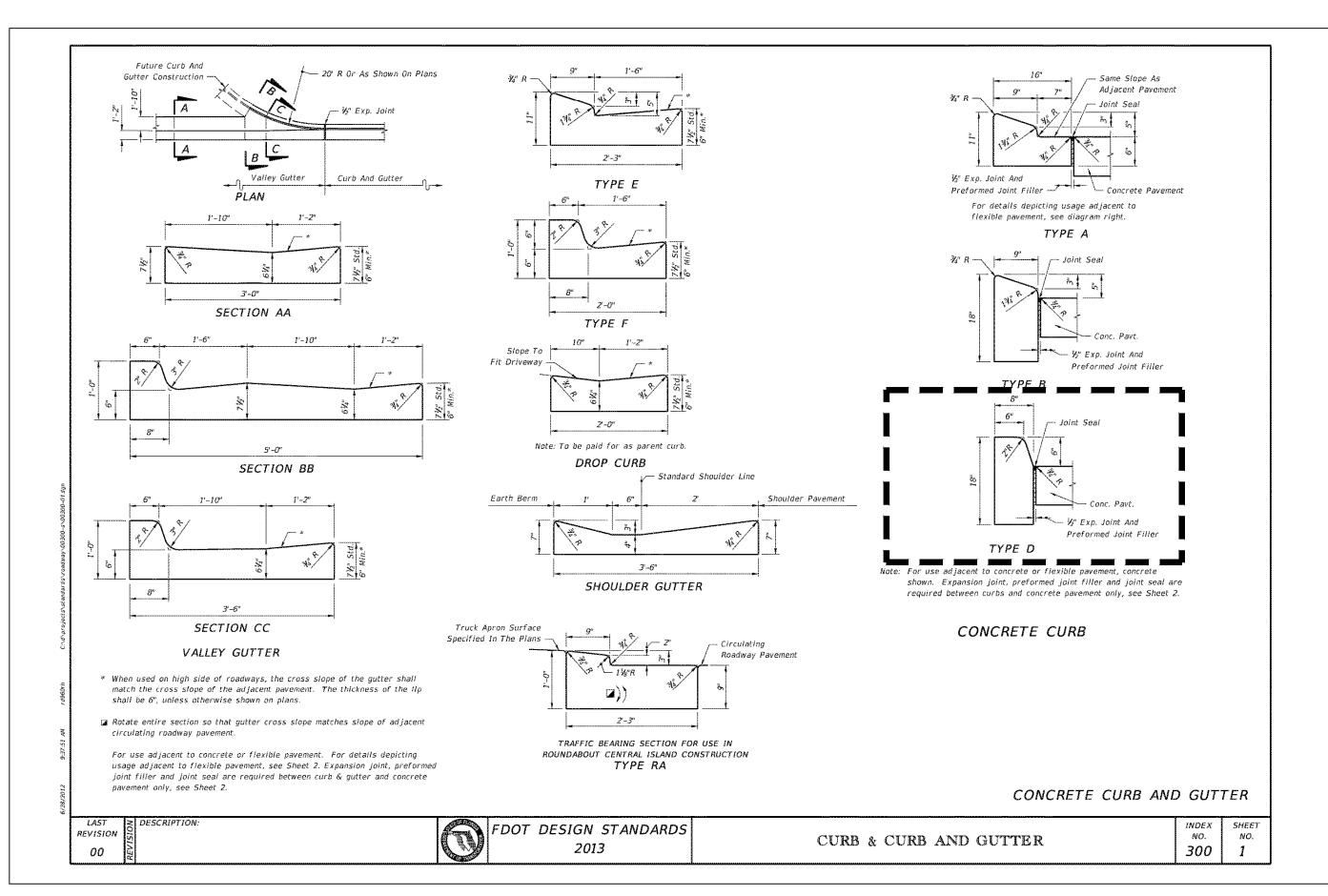
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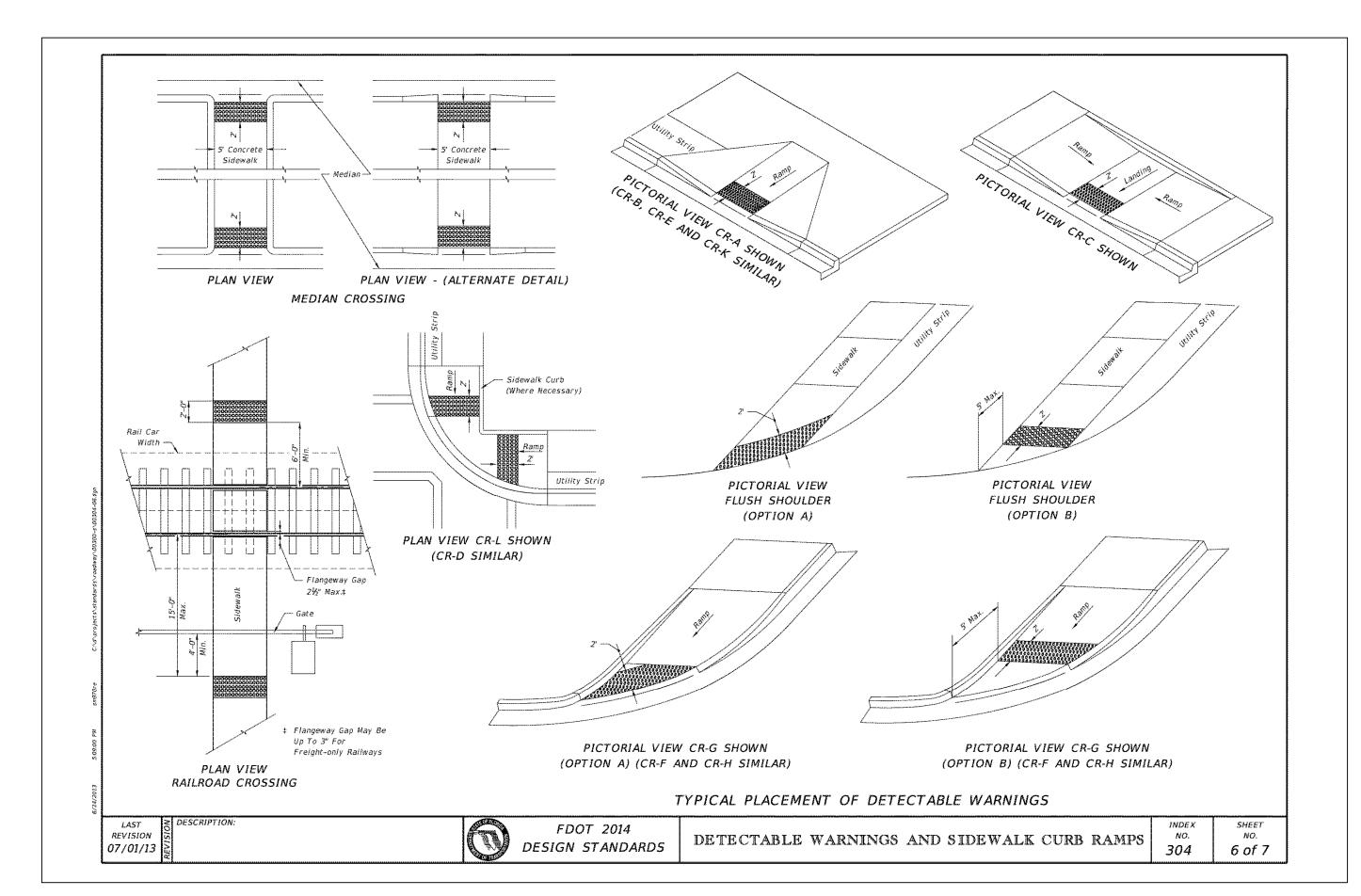
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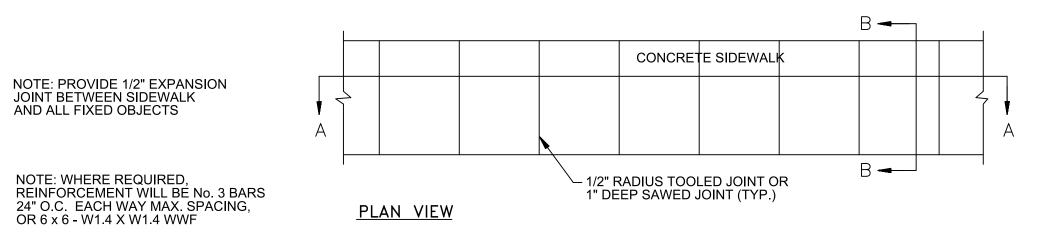
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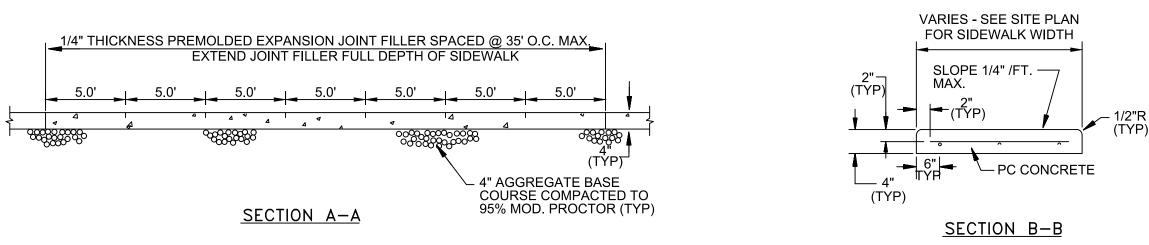


6 DETECTABLE WARING SURFACE AND SIDEWALK CURB RAMPS C1.02 C5.02 SCALE NTS



CONSTRUCTION NOTES:

- SIDEWALKS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE WITH A MIN. COMPRESSIVE STRENGTH OF 3,000 PSI.
- 2. SIDEWALK COLOR = WHITE.
- 3. ALL SIDEWALKS SHALL BE A MIN. OF 5 FT WIDE.
- 4. SIDEWALK SURFACE SHALL BE GIVEN A LIGHT BROOM FINISH WITH THE BRUSH MARKS PERPENDICULAR TO THE TRAFFIC.



1 CONCRETE SIDEWALK c1.02 c5.02 SCALE NTS

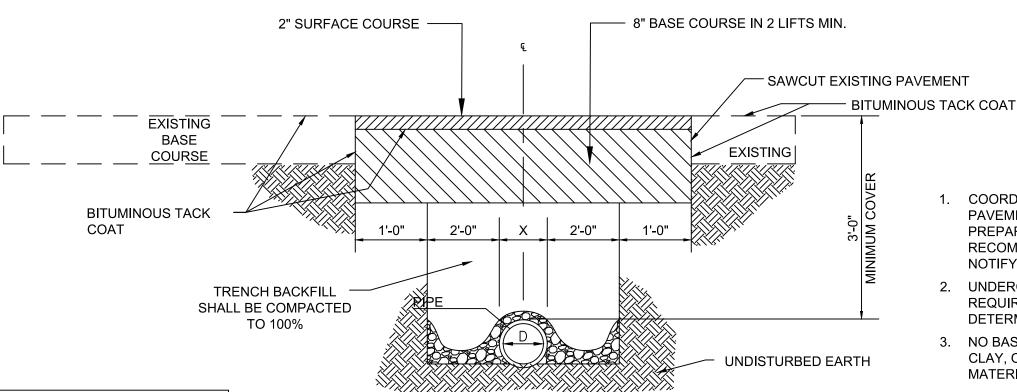


TABLE A							
D	x						
8" OR LESS	1'-0"						
12"	1'-4"						
14"	1'-6"						
15"	1'-7"						
18"	1'-10"						
24"	2'-6"						

PAVEMENT REPAIRS ON ROADS NOT TO BE RESURFACED

<u>NOTES</u>

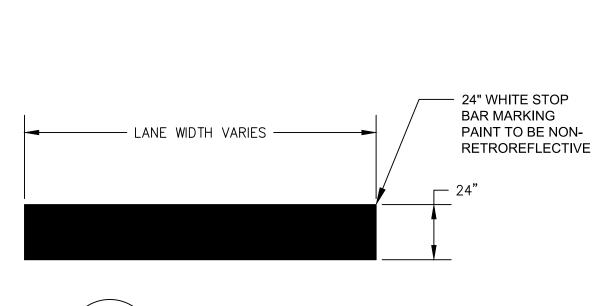
- 1. EDGE TO BE SAWED WITH A CONCRETE SAW TO A NEAT SQUARED EDGE AND CLEANED OF DUST BEFORE TACK COAT IS APPLIED.
- 2. EDGES TO BE TACKED WITH CRS-I OR CRS-II.
- 3. THICKNESS OF BASE COURSE AND SURFACE COURSE SHALL MATCH EXISTING CONDITIONS IF GREATER THAN SHOWN ON DETAILS.
- CONTRACTOR RESPONSIBLE FOR REPLACEMENT OF ANY PAVEMENT MARKINGS DISTURBED OR COVERED BY OVERLAY.

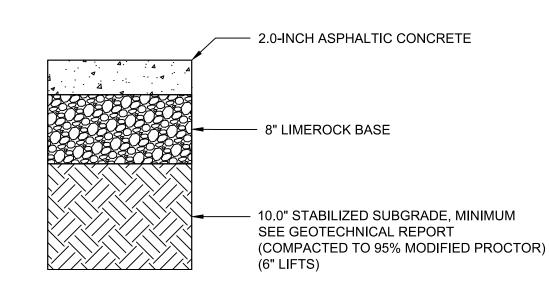
- COORDINATE WITH GEOTECHNICAL REPORT FOR PAVEMENT SECTION, DENSIFICATION, SUBGRADE PREPARATION, AND ENGINEERED FILL PLACEMENT RECOMMENDATIONS. SHOULD A CONFLICT EXIST, NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
- 2. UNDERCUT ANY UNSUITABLE MATERIAL UP TO 24" AS REQUIRED AND REPLACE WITH SELECT MATERIAL AS DETERMINED BY LICENSED GEOTECHNICAL ENGINEER.
- DETERMINED BY LICENSED GEOTECHNICAL ENGINEER

 3. NO BASE COURSE SHALL BE PLACED ON MULCH, PINE CLAY, ORGANIC MATTER OR OTHER UNSUITABLE
- 4. WHEN CURBING IS NOT SPECIFIED, BASE COURSE SHALL
- EXTEND A MINIMUM OF 12" BEYOND EDGE OF ASPHALT.

 5. THE PAVEMENT DESIGN SHOWN REPRESENTS THE MINIMUM THICKNESS OF SURFACE AND BASE COURSE TO BE USED. SUBGRADE SOILS TESTS MAY DETERMINE HEAVIER PAVEMENT DESIGNS ARE REQUIRED.
- 6. ALL MATERIALS SHALL MEET THE REQUIREMENTS SET FORTH IN THE LATEST DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- 7. CONTRACTOR SHALL NOTIFY ENGINEER IF SATURATED SUBGRADE IS ENCOUNTERED DURING CONSTRUCTION AS ADDITIONAL DRAINAGE MEASURES MAY BE REQUIRED.
- 8. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.



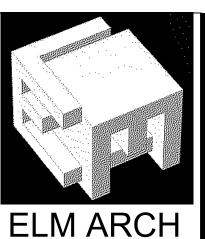




NOTE:

- 1. SEE PAVEMENT SECTION CONSTRUCTION NOTES THIS SHEET.
- 2. MATCH EXISTING PAVEMENT SECTION OR WHICHEVER IS GREATER.

4 TYPICAL ASPHALT PAVEMENT SECTION C1.02 C5.02 SCALE NTS



8950 SW 74TH Court Suite 1204 Miami, FL 33156

786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574



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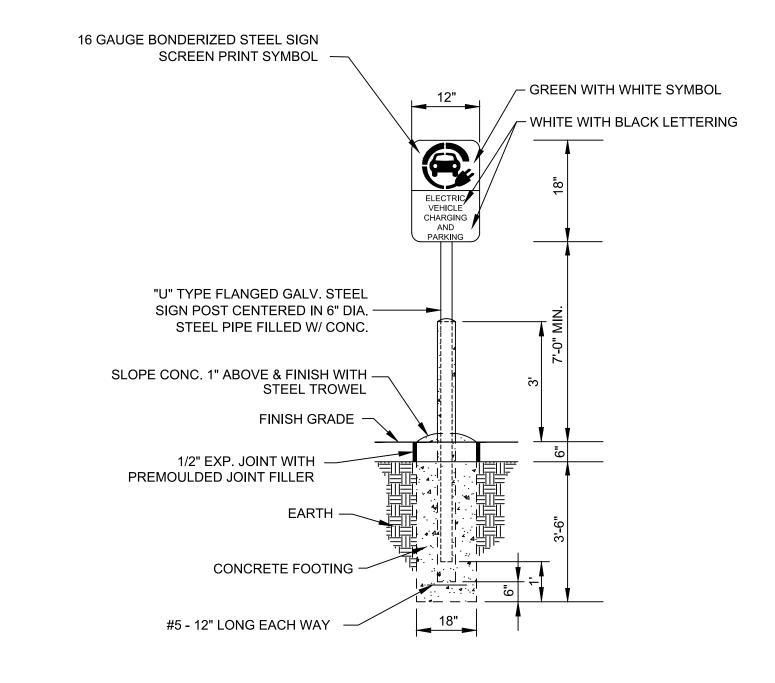
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DATE 03-26-25 PROJECT NUMBER

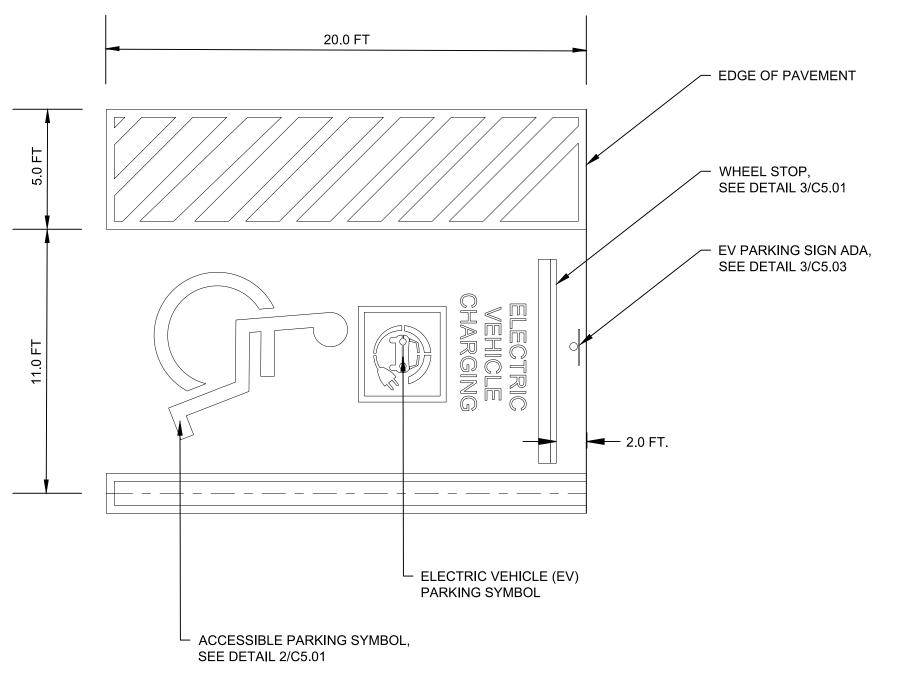
19119 SHEET NUMBER

C5.02

2 STROLLER PARKING SIGN C1.02 C5.03 SCALE NTS



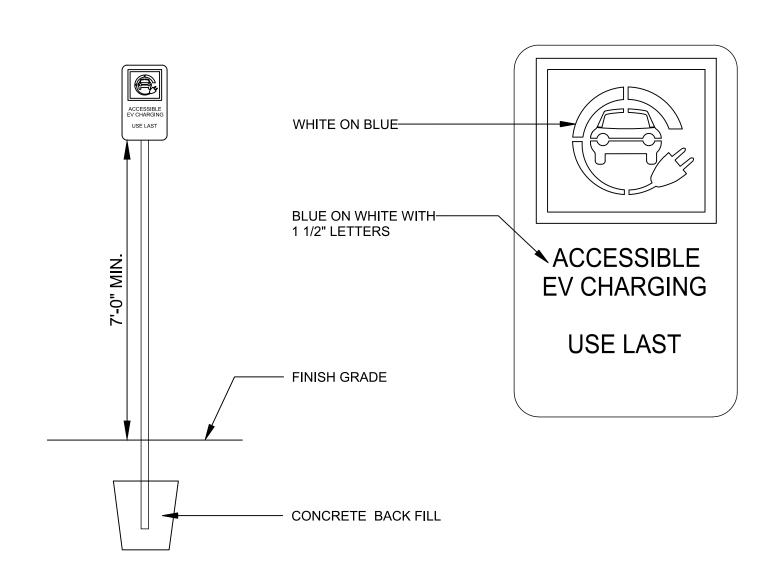
1 ELECTRIC VEHICLE PARKING SIGN C1.02 C5.03 SCALE NTS



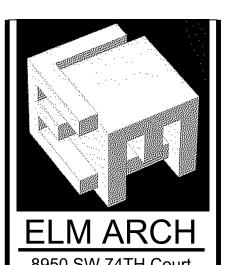
<u>NOTES</u>

- 1. 2.0% MAX SLOPE ALL DIRECTIONS
- 2. CONTRACTOR SHALL COORDINATE ALL PAVEMENT MARKINGS WITH THE COORDINATING OFFICER PRIOR TO COMMENCEMENT OF MARKING.

4 TYP EV PARKING STRIPING — ADA c1.02 c5.03 scale nts

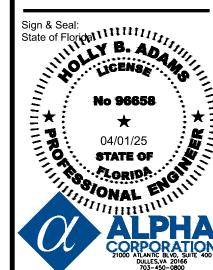


ELECTRIC VEHICLE PARKING SIGN ADA c1.02 c5.03 scale nts



8950 SW 74TH Court Suite 1204 Miami, FL 33156 786-391-2646

Qualifier: Erik Lloyd I State of Florida: AR 9



OWNER:
THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY HOLLY ADAMS ON THE
DATE ADJACENT TO THE SEAL.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY HOLLY ADAMS ON THE DATE ADJACENT TO THE SEAL.

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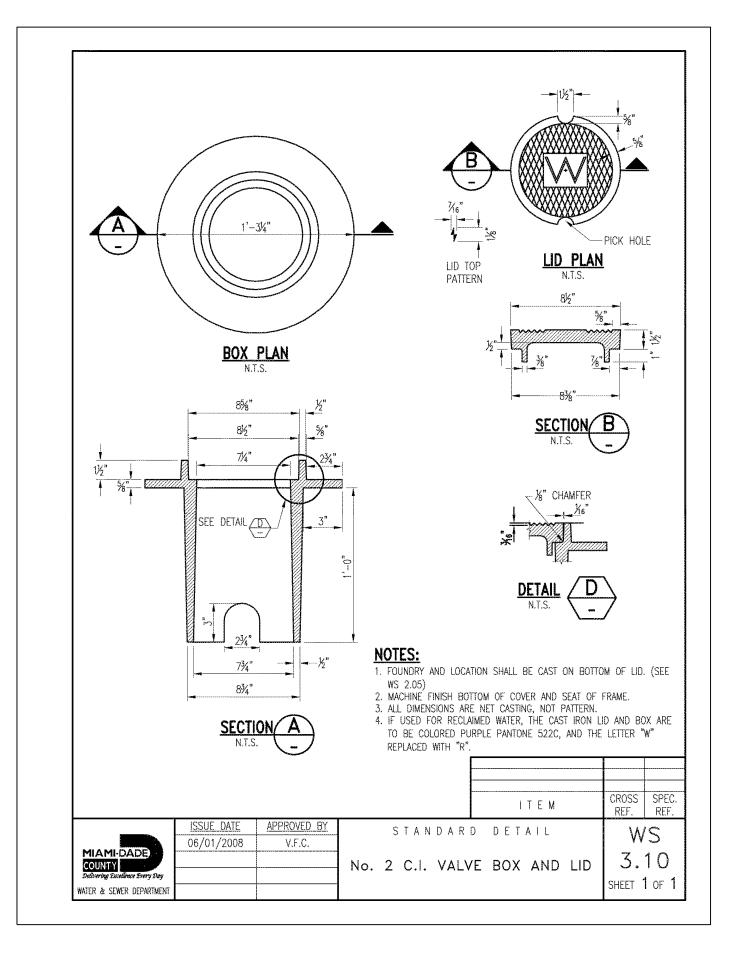
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REVISION REV 1 08-28-23 REV 2 11-14-23 REV 3 03-26-25

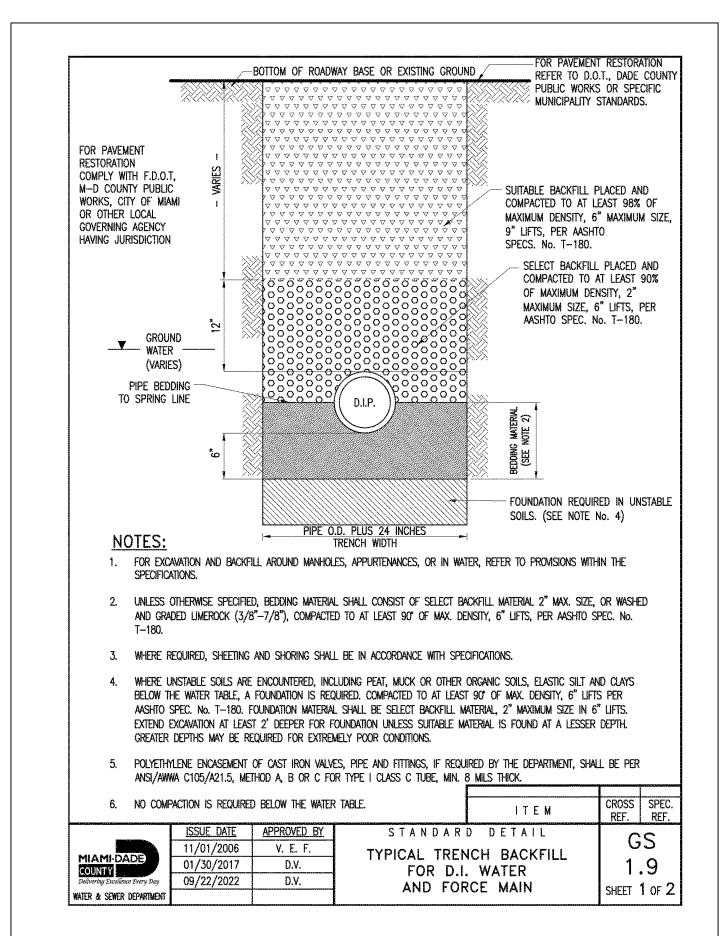
DATE 03-26-25 PROJECT NUMBER

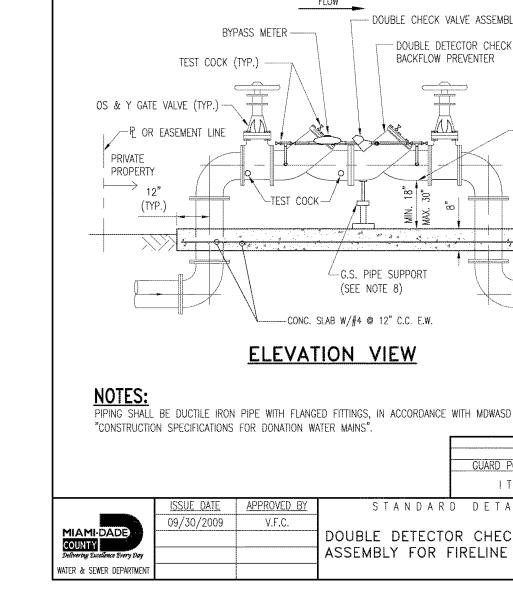
19119 SHEET NUMBER

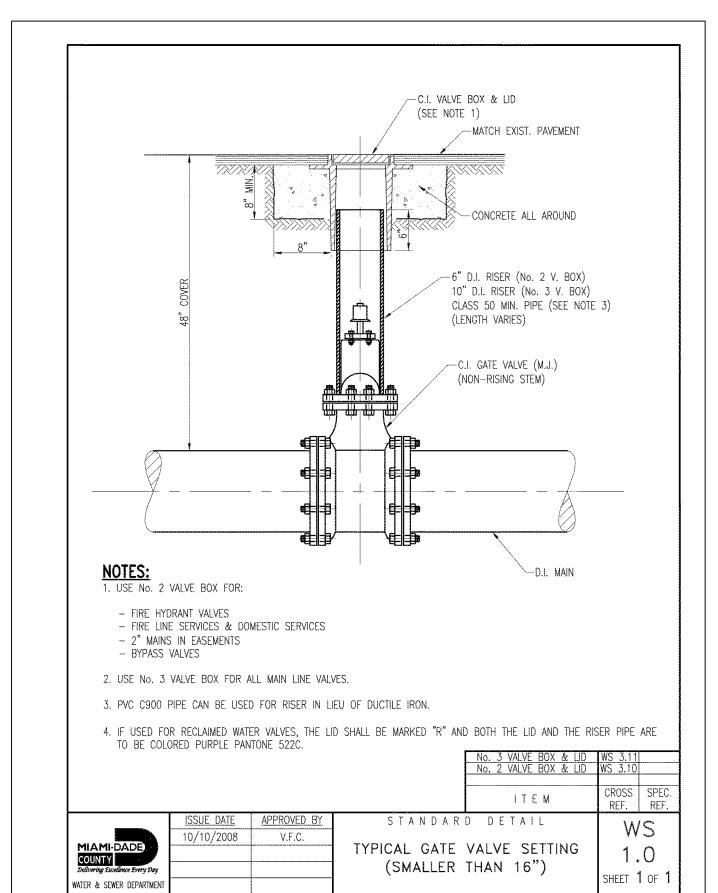
C5.03



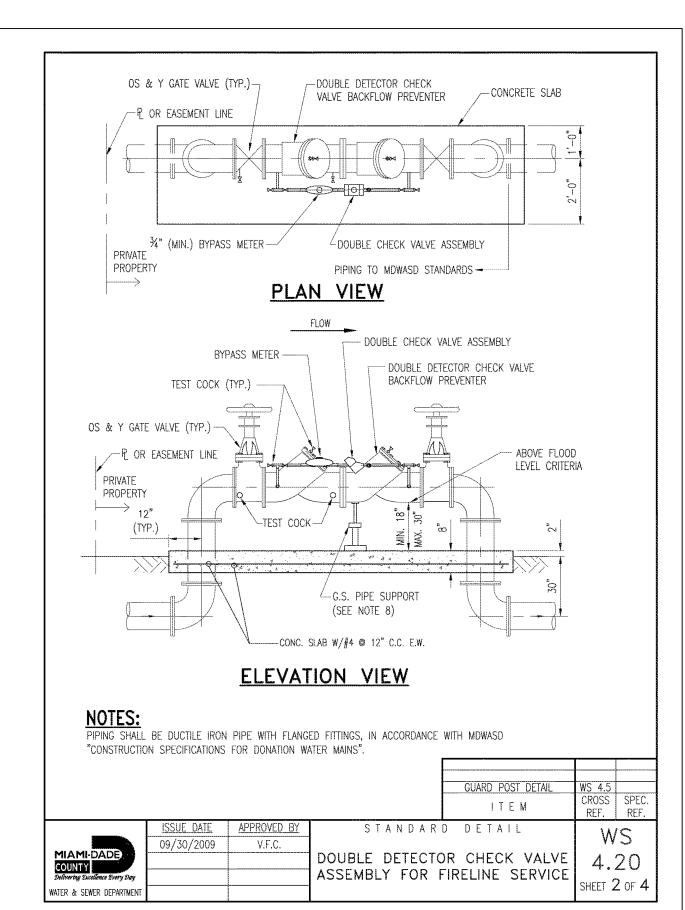




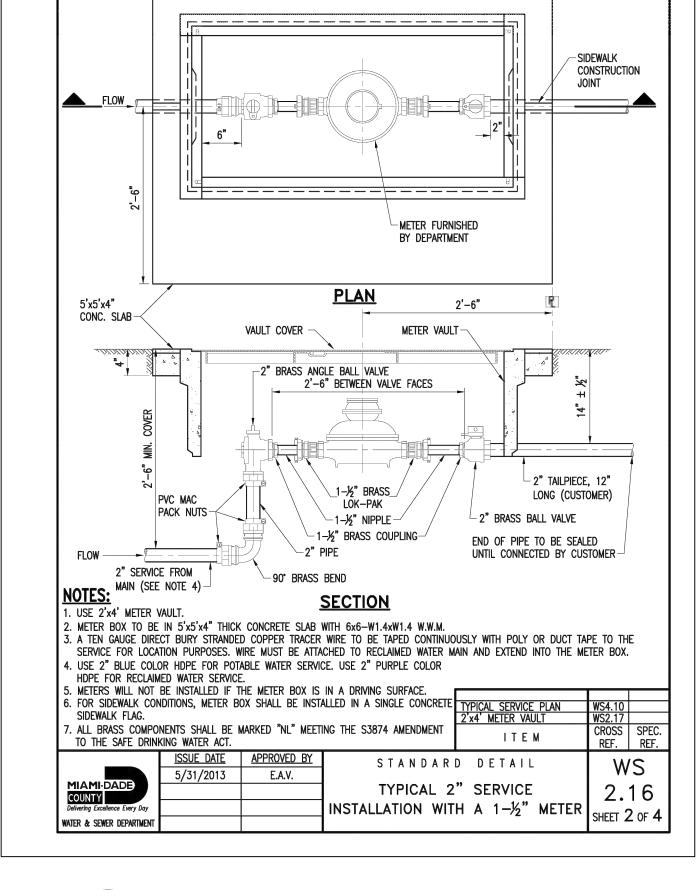


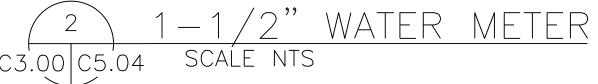


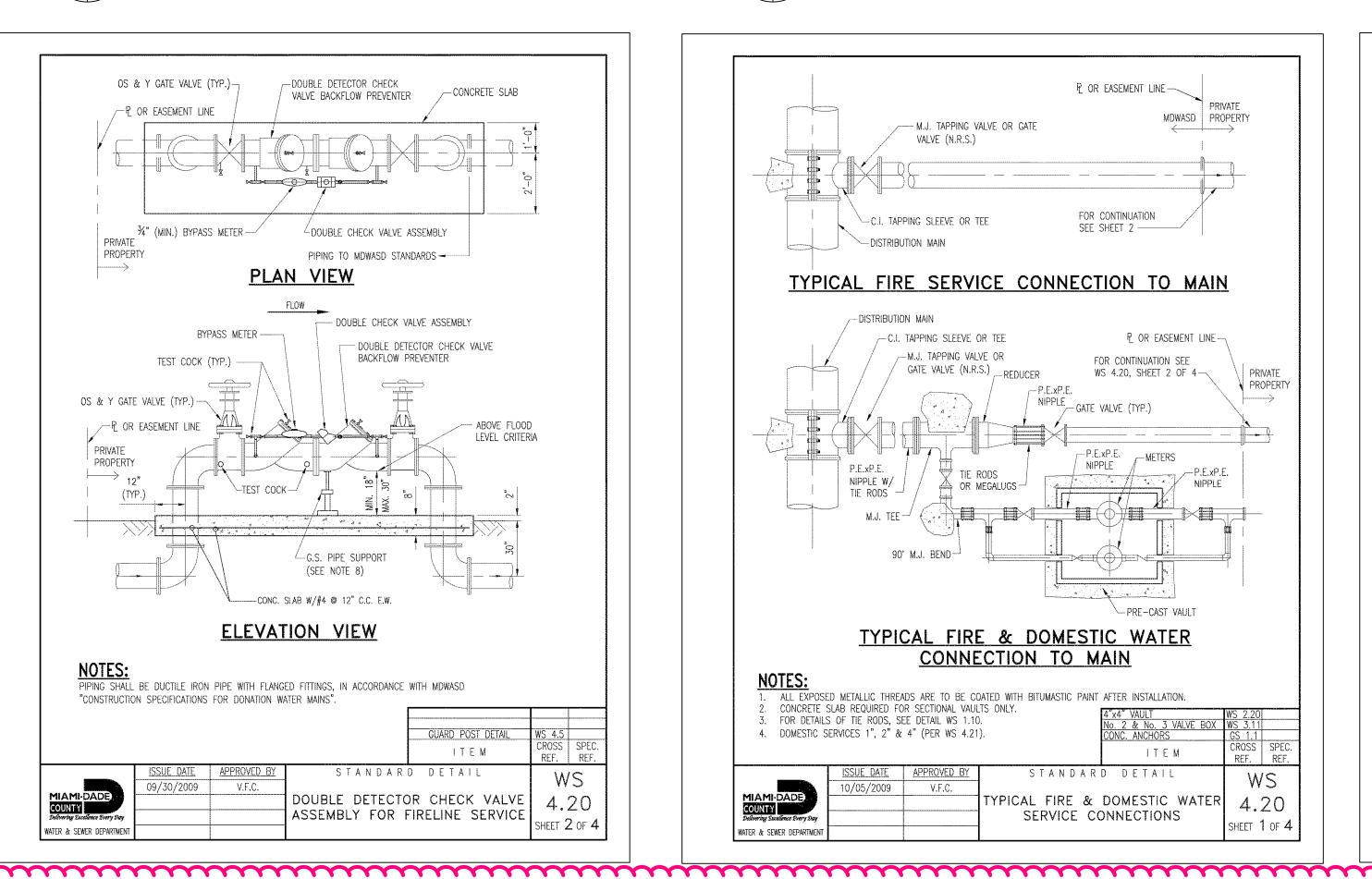




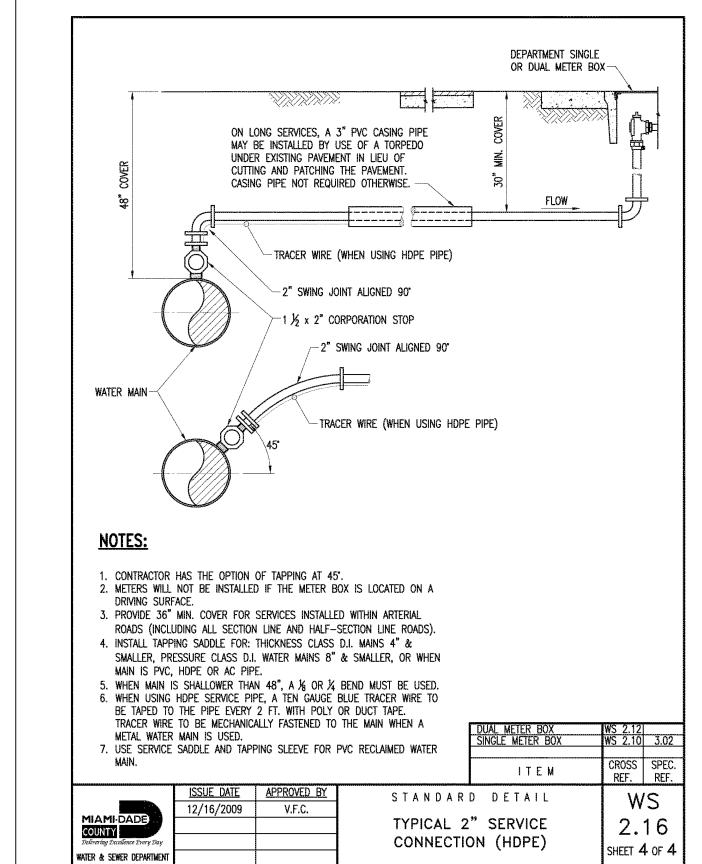




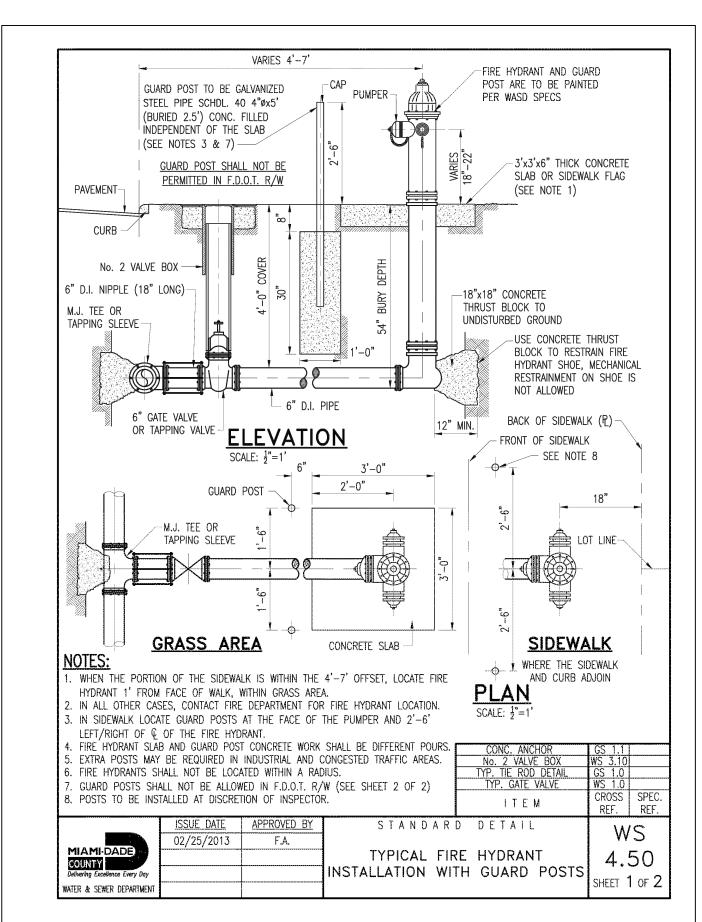




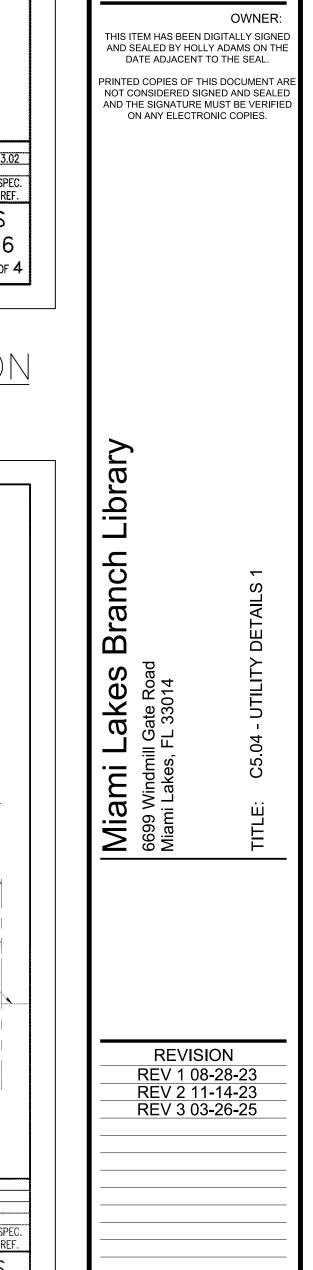
SCALE NTS











DATE

03-26-25 PROJECT NUMBER 19119

SHEET NUMBER

18 OF 18

ELM ARCH

8950 SW 74TH Court

Suite 1204

Miami, FL 33156

786-391-2646

STATE OF

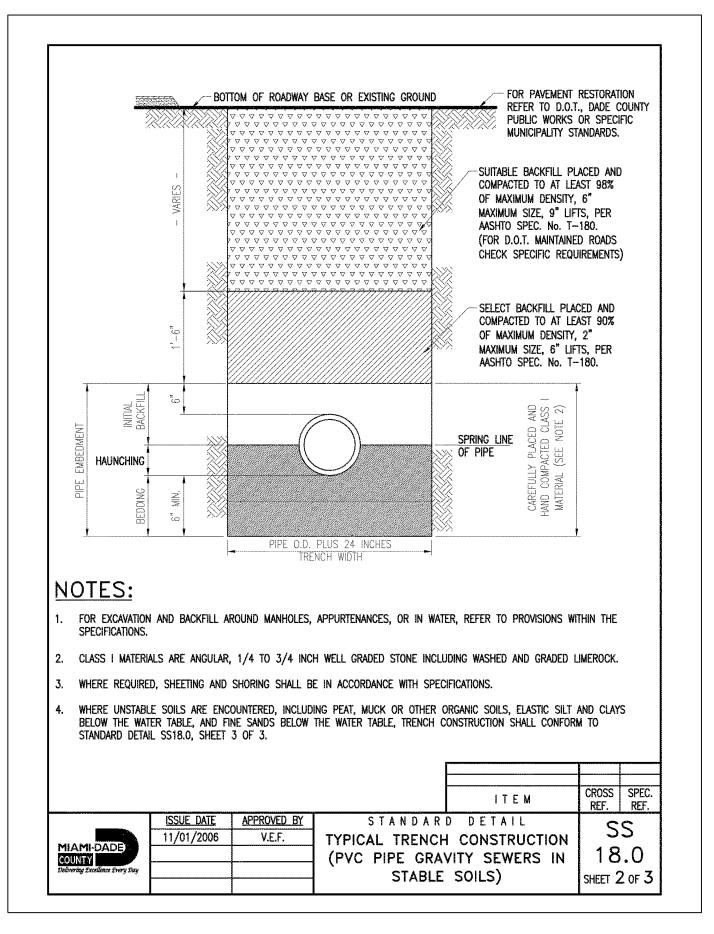
State of Florida:

State of Floridal 1

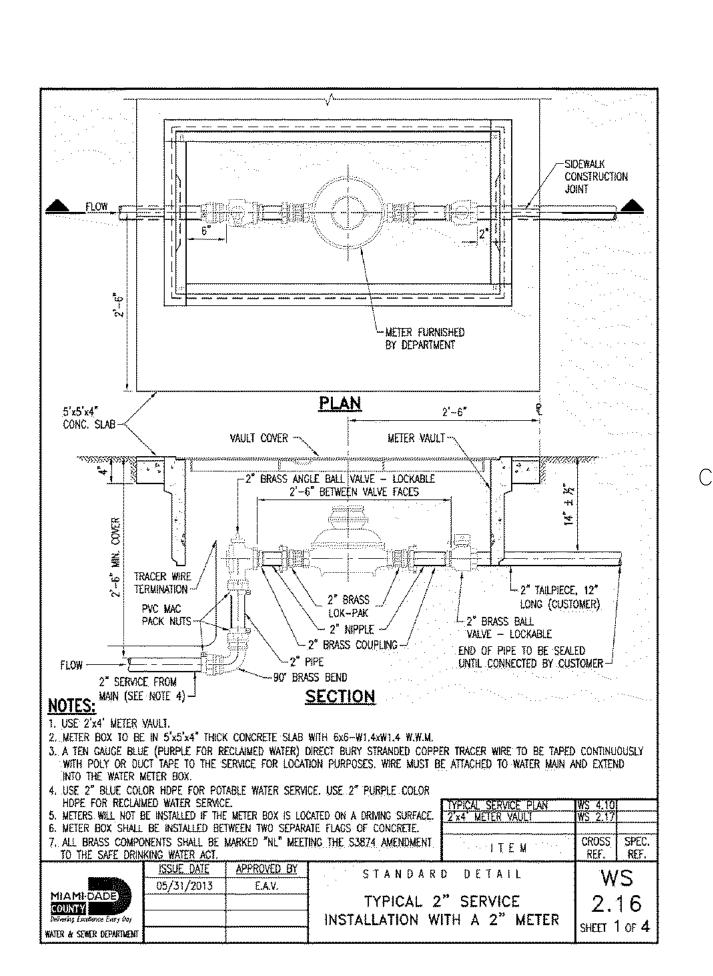
Sign & Seal:

Erik Lloyd Myer

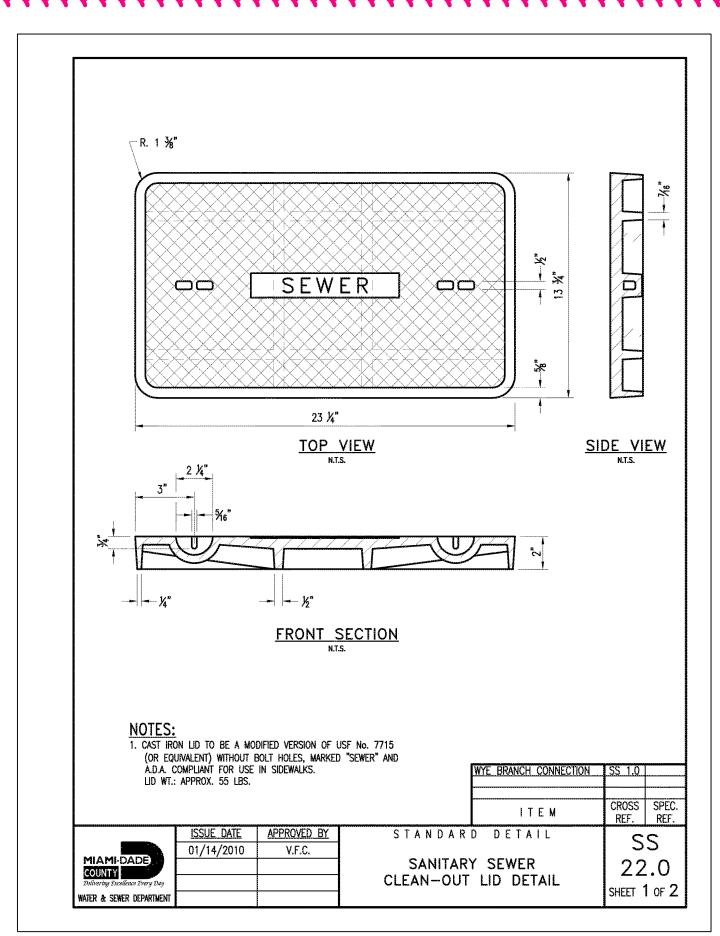
FOR D.I. WATER





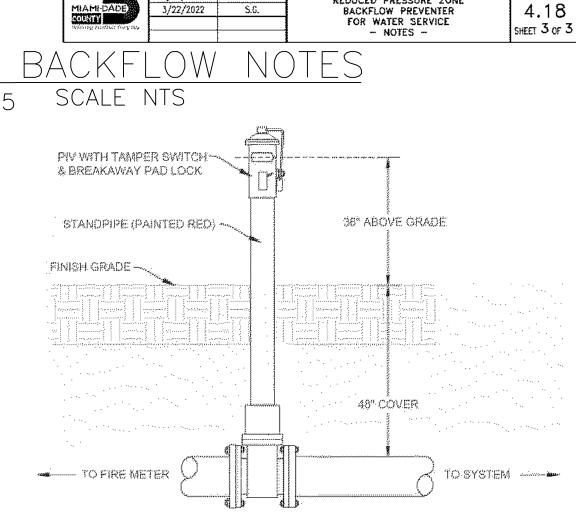






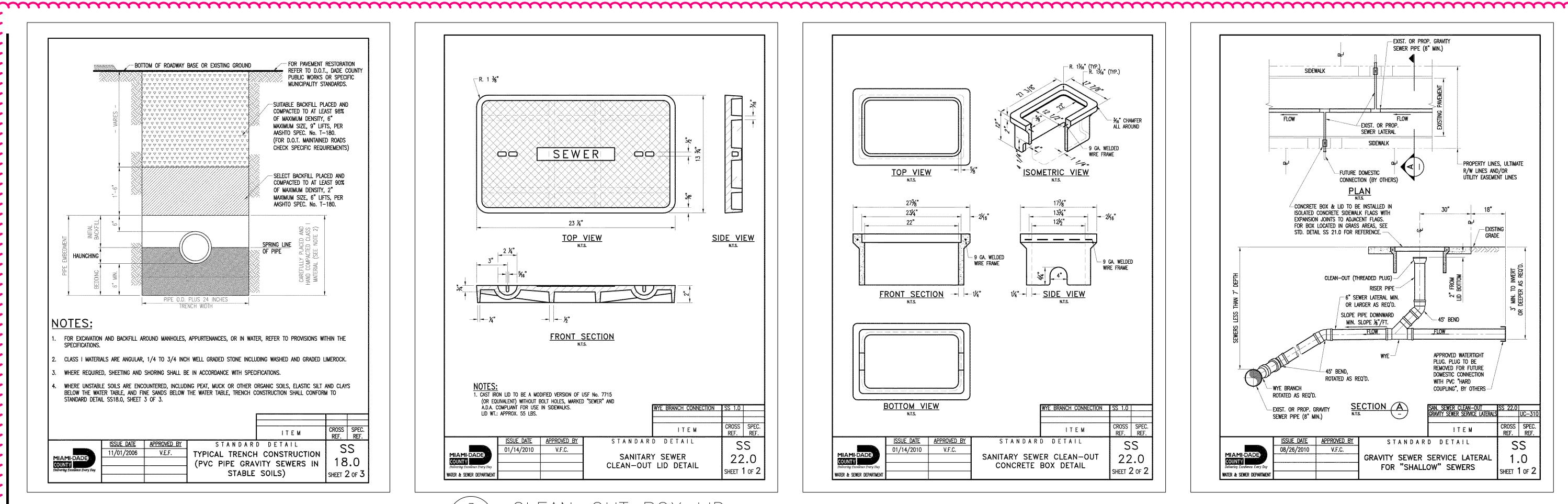


1-. THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS. 2-. Guard Posts shall be installed if the assembly is exposed to possible damage from vehicular traffic, as determined by the department. 3-. THE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, APPROVED BY THE DEPARTMENT. 4-. ADJUSTABLE PIPE SADDLE SUPPORT (GRINNELL FIG. 264, OR EQUAL) SIZED TO FIT CURVATURE OF FLOOR FLANCE TO CONCRETE SLAB WITH CALVANIZED EXPANSION BOLTS. 5-. THE DEPARTMENT SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE BACKFLOW PREVENTION ASSEMBLY. 6-. PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BRASS OR TYPE K COPPER PIPE WITH FITTINGS. PIPING 4" AND LARGER SHALL BE DUCTILE IRON PIPE WITH FLANGED FITTINGS. ALL PIPING SHALL BE IN ACCORDANCE WITH WASD CONSTRUCTION SPECIFICATIONS FOR DONATION WATER MAINS, PVC PIPING IS NOT 7-. ALL OUTLETS SHALL BE PLUGGED WITH BRASS PLUGS. 8-. ALL ABOVE GROUND PIPERS AND EQUIPMENT, EXCEPT FOR BRASS AND STAINLESS STEEL PORTIONS, SPALL BE FINISHED WITH BLUE ENAMEL PAINT (KOP-COAT 0508 LEAD-FREE) IN ACCORDANCE WITH 9.- COPPER ALLOY MATERIALS SHALL BE "LEAD FREE" AND IN FULL COMPLIANCE WITH THE FEDERAL "REDUCTION OF LEAD IN DRINKING WATER ACT". 10-, FOR A LIST OF BACKFLOW PREVENTERS APPPROVED TO BE USED IN WASD FACILITIES, REFER TO PRE-APPROVED PRODUCT LIST SHEET NUMBER 4.6 AND/OR THE UNIVERSITY OF SOUTHERN CALIFORNA FOUNDATION LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES AT WWW.USCLIST.COM, OR fccchr.usc.edu/list.html HER STANDARD DETAIL WS REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR WATER SERVICE

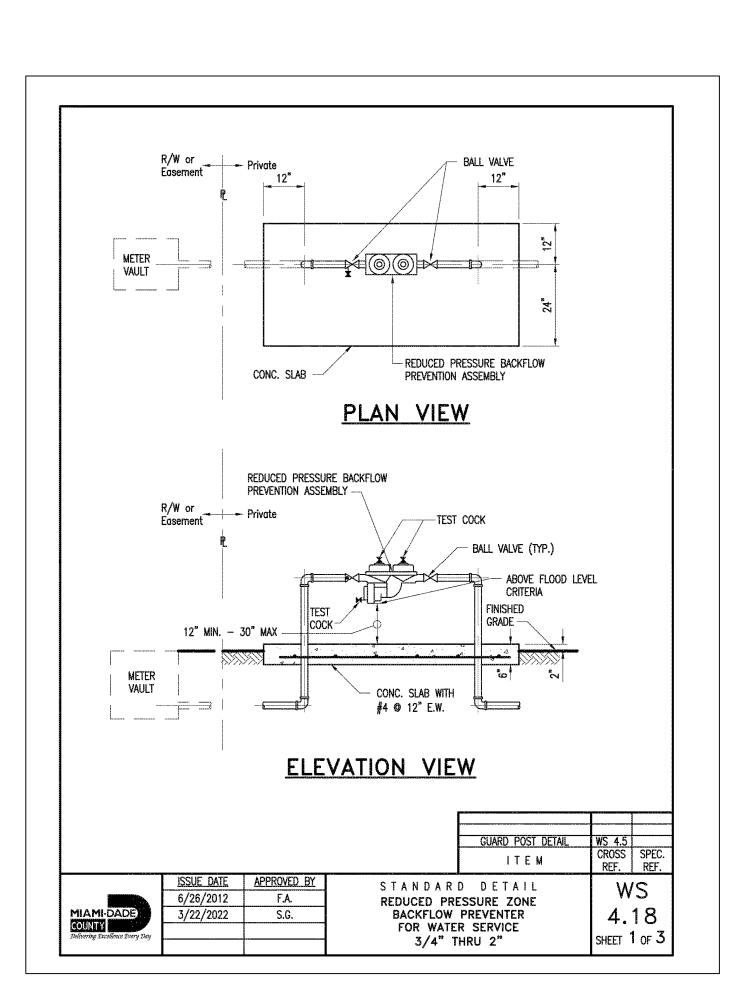


POST INDICATOR VALVE (PIV)

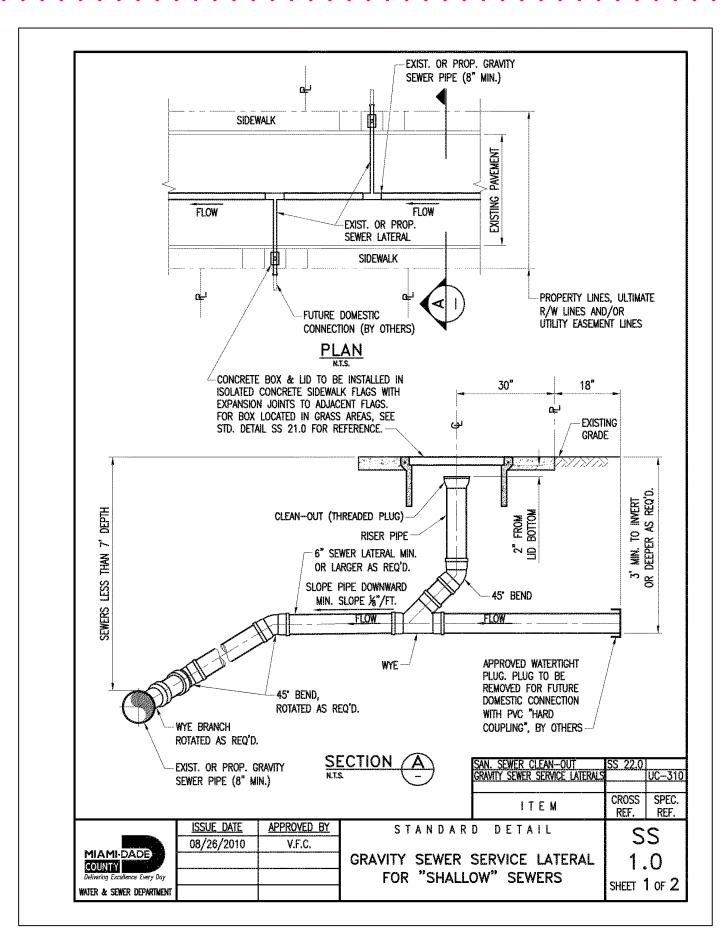
 PAV SMALL BE ECCATED AT LEAST & FROM BUILDING OR STRUCTURE.
 PAV RECURIES SC OF LINORSTRUCTED CLEANANCE ARCUMO THE PERBUETER OF PAV STANDARE SCALE NTS



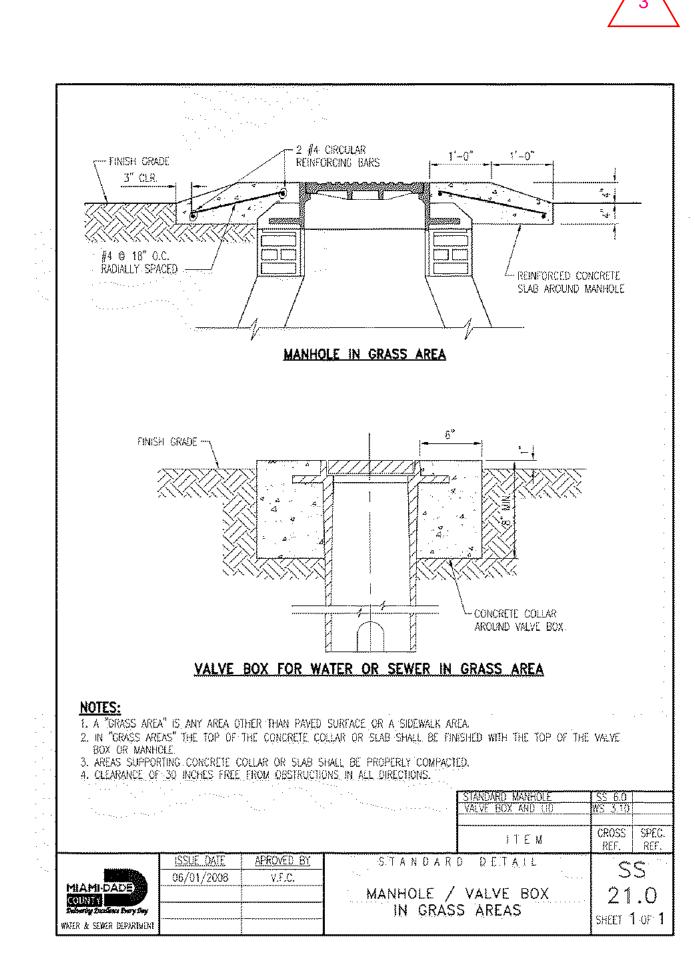




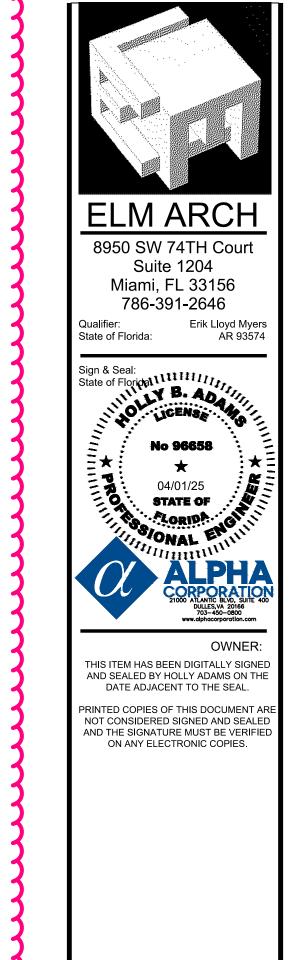




SANITARY SEWER CLEAN-OU SCALE NTS

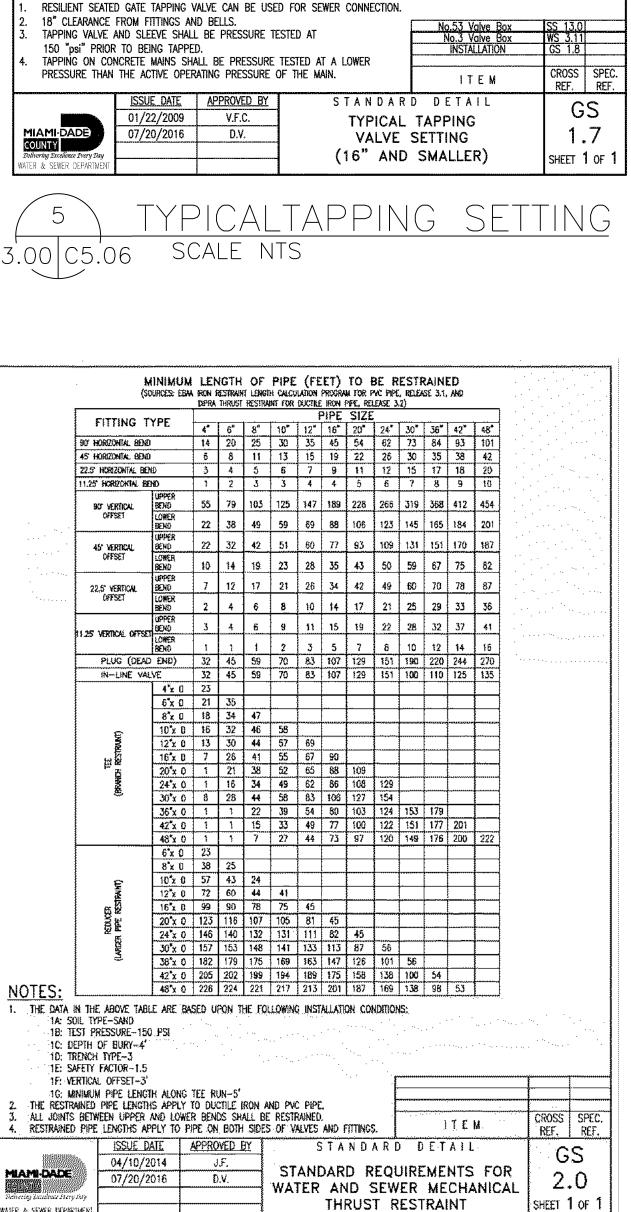








REVISION REV 1 08-28-23 REV 2 11-14-23 REV 3 03-26-25 DATE 03-26-25 PROJECT NUMBER 19119 SHEET NUMBER



FLANGED OR

TAPPING SLEEVE

CONCRETE ANCHOR

PRIOR TO TAPPING

MJ JOINT

- MATCH EXIST. PAVEMENT

CONCRETE ALL AROUND

No. 3 (WATER) or No. 53 (SEWER) D.I. VALVE BOX AND LID —

10" D.I. RISER PIPE (CLASS 50 MIN)

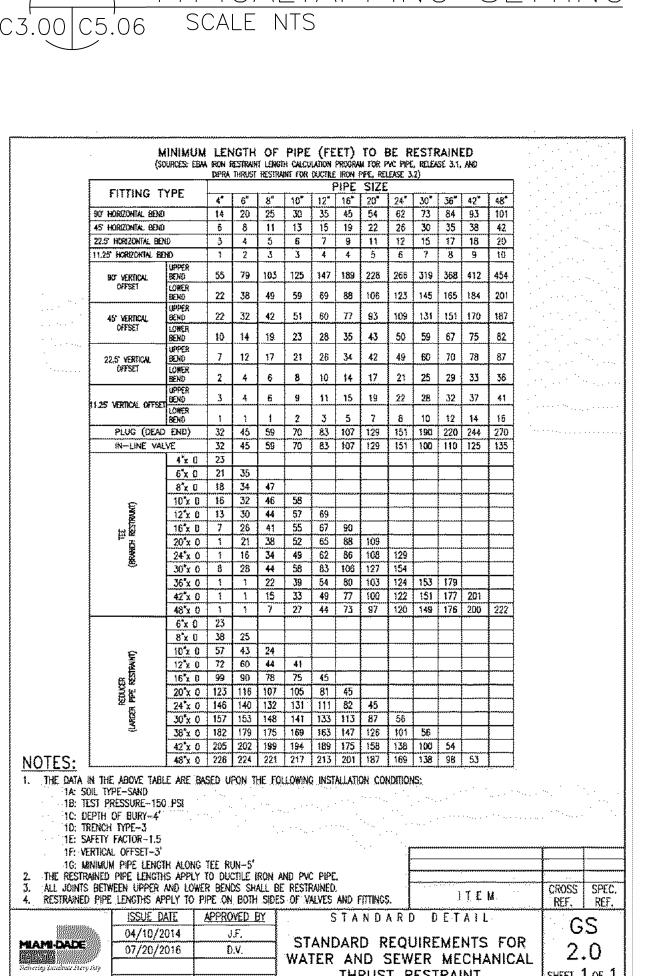
MECHANICAL JOINT

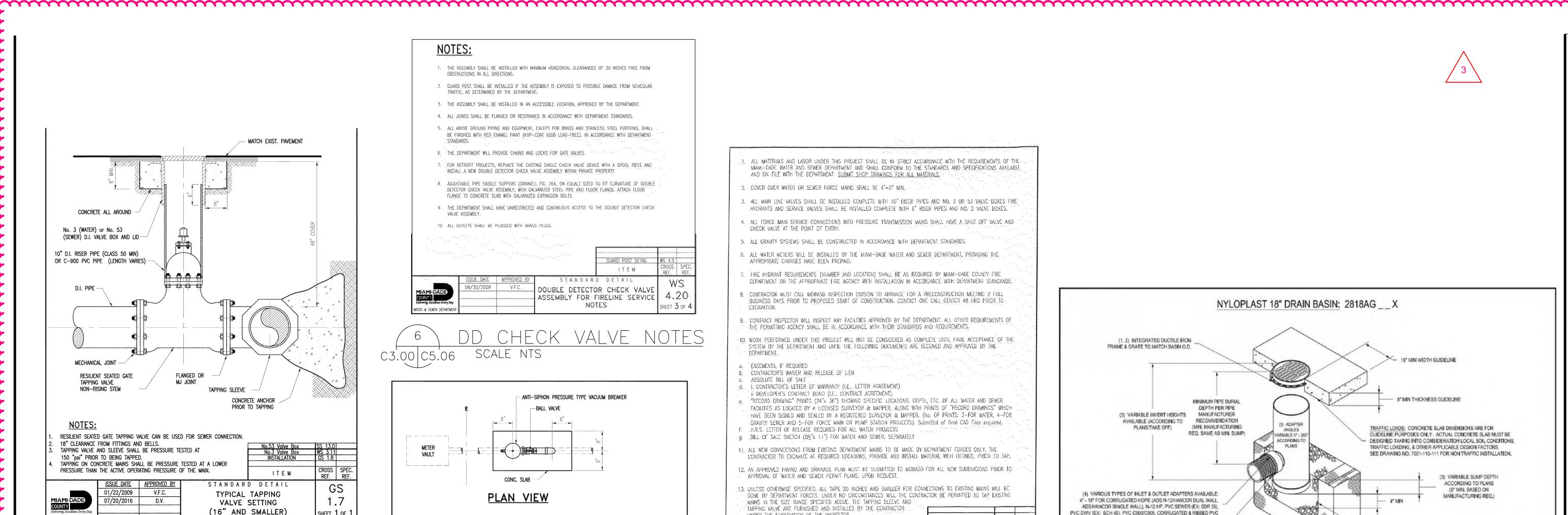
TAPPING VALVE

NON-RISING STEM

RESILIENT SEATED GATE

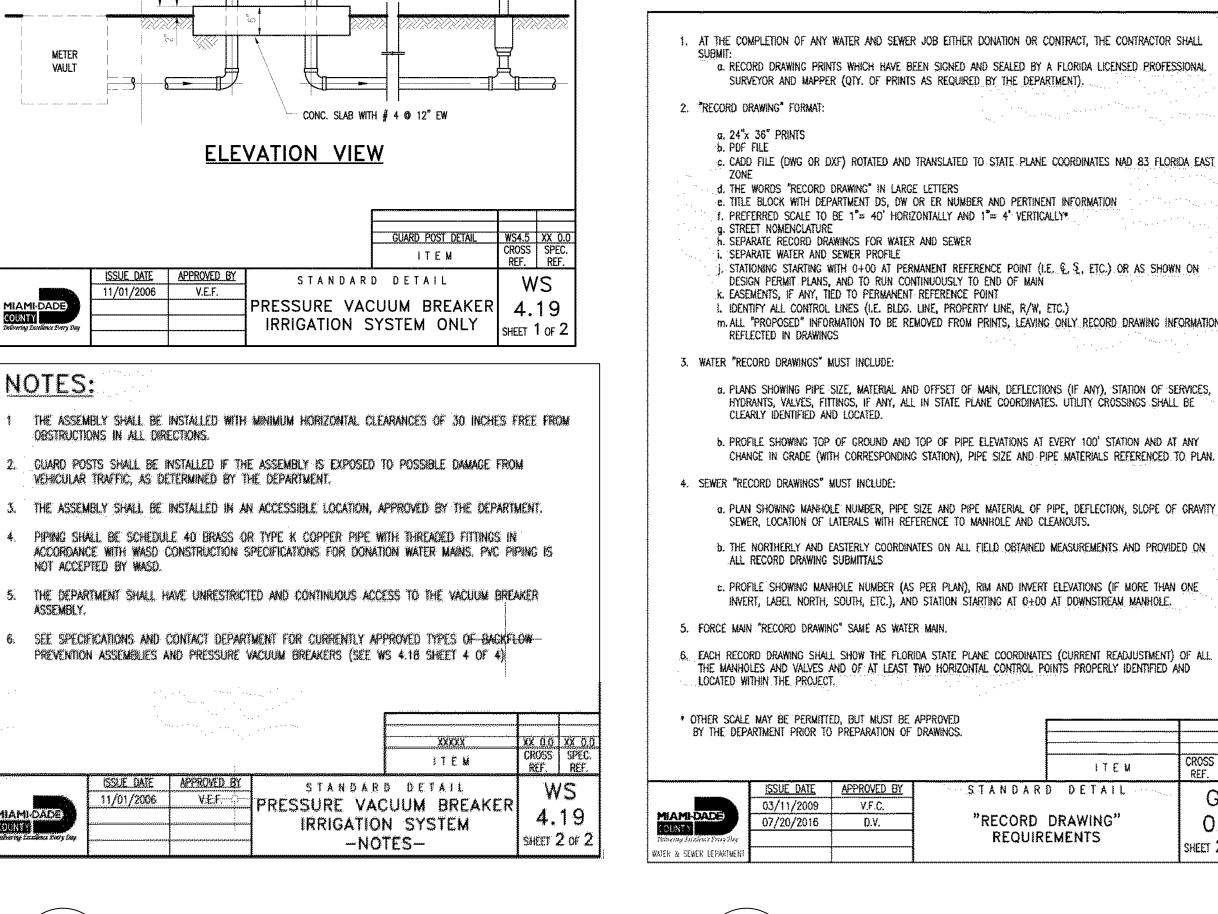
OR C-900 PVC PIPE (LENGTH VARIES) -

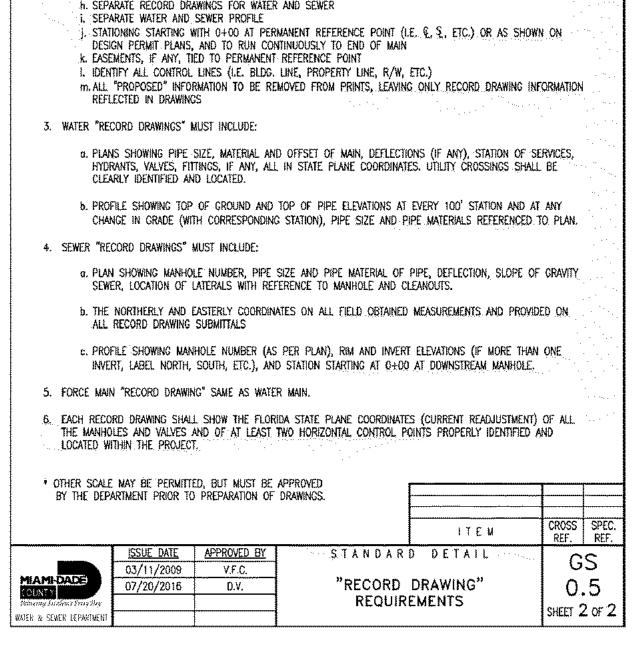




ANTI-SIPHON PRESSURE

TYPE VACUUM BREAKER





ALL MATERIALS AND LABOR LUNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE.

3. ALL MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10" RISER PIPES AND NO. 3 OR 53 VALVE BOXES FINE:

HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6" RISER PIPES AND NO. 2 VALVE BOXES.

4. ALL FORCE MAIN SERVICE CONNECTIONS INTO PRESSURE TRANSMISSION MAINS SHALL HAVE A SHUTLOFF VALVE AND

6. ALL WATER METERS WILL BE INSTALLED BY THE MAMI-DADE WATER AND SEWER DEPARTMENT, PROVIDING THE

7. FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY MIAMI-DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT SYMMORDS."

8. -CONTRACTOR MUST CALL MOWASD INSPECTION ON/SION TO ARRANGE FOR A PRECONSTRUCTION MEETING 2 FULL

BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION, CONTACT ONE CALL CENTER 48 HRS PRIOR TO

9. CONTRACT INSPECTOR WILL INSPECT ANY FACILITIES APPROVED BY THE DEPARTMENT, ALL OTHER REQUIREMENTS OF

10. WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED AS COMPLETE UNDIL FINAL ACCEPTANCE OF THE

""RECORD DRAWING" PRINTS (24"x 36") SHOWING SPECIFIC LOCATIONS, DEPTH, ETC. OF ALL WATER AND SEWER

- GRAVITY SEWER AND 5-FOR FORCE MAIN OR PUMP STATION PROJECTS). Submittal of timal CAD Files required.

CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS, PROVIDE AND INSTALL MATERIAL WITH FITTINGS, PRICE TO TAKE

12. AN APPROVED PAYING AND DRAINAGE PLAN MUST BE SUBMITTED TO MOWASO FOR ALL NEW SUBDIVISIONS PRIOR TO

13. UNLESS OTHERWISE SPECIFIED, ALL TAPS 20 INCHES AND SMALLER FOR CONNECTIONS TO EXISTING MAINS WILL BE

-DONE BY DEPARTMENT FORCES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO TAP EXISTING

ITEM

0.5

SHEET 1 OF 2

STANDARD DETAIL

STANDARD REQUIREMENTS.

WATER AND SEWER CONSTRUCTION

1), ALL NEW CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY-DEPARTMENT FORCES ONLY. THE

FACELIES AS LOCATED BY A LICENSED SURVEYOR & MAPPER, ALONG WITH PRINTS OF "RECORD DRAWINGS" WHICH

HAVE BEEN SIGNED AND SEALED BY A RECISTEIRED SURVEYOR & MAPPER, (No. OF PRINTS: 3-FOR WATER, 4-FOR

SYSTEM BY THE DEPARTMENT AND DIVER THE FOLLOWING COCCUMENTS ARE RECEIVED AND APPROVED BY THE

THE PERMITTING ACENCY SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS.

AND ON FILE WITH THE DEPARTMENT. SUBJUT SHOP DRAWINGS FOR ALL MATERIALS.

5. ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS.

2. COVER OVER WATER OR SEWER FORCE MAINS SHALL BE 4"-0" MAN.

CHECK VALVE AT THE BOINT OF ENTRY.

DEPAREMENT:

MAMI-DADE

EASEMENTS, IF REQUIRED

c. -ABSOLUTE BILL OF SALE

b. CONTRACTOR'S WAVER AND RELEASE OF LEN

- UNDER THE SUPERVISION OF THE INSPECTOR

d. L CONTRACTOR'S LETTER OF WARRANTY (LE. LETTER AGREEMENT).

IN DEVELOPER'S CONTRACT BOND (LE., CONTRACT AGREEMENT).

. HERIS, EETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS

APPROVAL OF WATER AND SEWER PERMIT PLANS, UPON REQUEST,

ISSUE DATE APPROVED BY

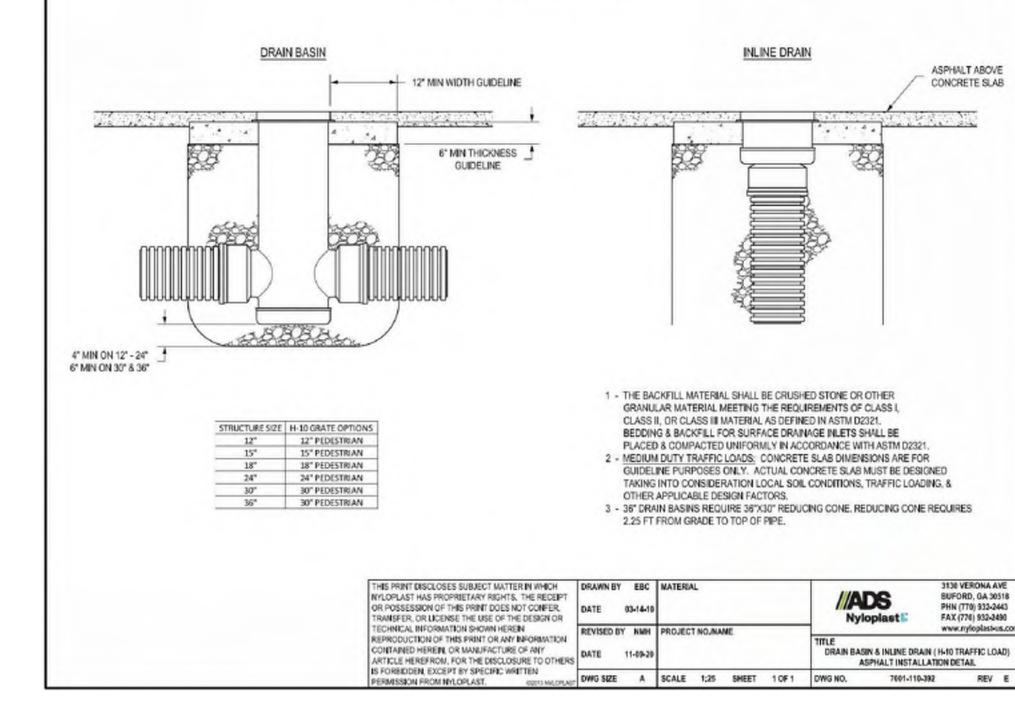
IMAINS IN THE SIZE RANGE SPECIFIED ABOVE. THE TAPPING SLEEVE AND

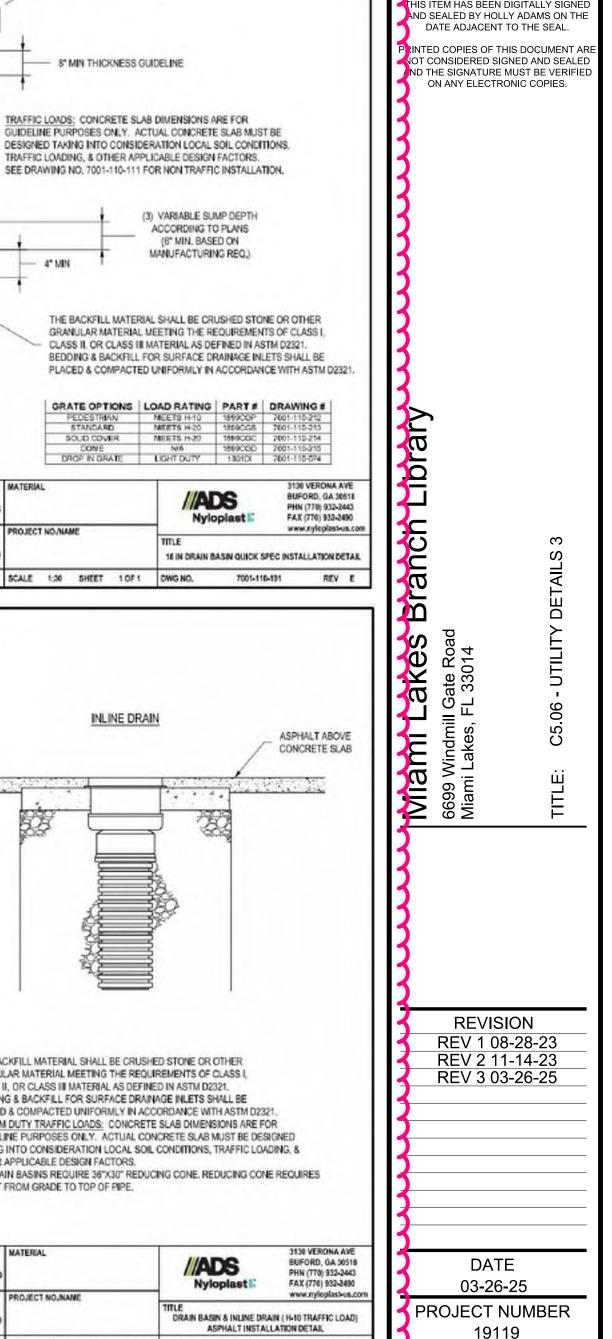
TAPPING VALVE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR.

.g. BILL OF SALE SKEYCH (BY X 11") FOR WATER AND SEWER, SEPARATELY

APPROPRIATE CHARGES HAVE BEEN PREPAID,

MIAMI-DADE WATER AND SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE









8950 SW 74TH Court

Erik Llovd Myers ate of Florida:

STATE OF

THIS ITEM HAS BEEN DIGITALLY SIGNE

18" MIN WIDTH GUIDELINE

FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN DWG SIZE A SCALE 1:30 SHEET 1 OF 1 DWG NO.

DRAWN BY EBC MATERIAL

ASPHALT INSTALLATION

NYLOPLAST 18" DRAIN BASIN: 2818AG __ X

(5) ADAPTER

ACCORDING TO

ERMISSION FROM MYLOPLAST.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH

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(1, 2) INTEGRATED DUCTILE IRON

(3) VARIABLE INVERT HEIGHTS

PLANS/TAKE OFF)

(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:

4" - 18" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL,

PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM ASSIGNADE 70-50-05.

DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.

RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS.

ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0" TO 360", TO DETERMINE MINIM

DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO

ASTM D3212 FOR CORRUGATED HDPE (ADS N-12 HANCOR DUAL WALL).

ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

FRAMES SHALL BE DUCTILE IRON PER ASTM AS36 GRADE 70-50-05.

SEE DRAWING NO. 7001-110-065

N-12 HP, & PVC SEWER.

ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35),

AVAILABLE (ACCORDING TO RECOMMENDATION

WATERTIGHT JOINT

(CORRUGATED HDPE SHOWN)

MINIMUM PIPE BURIAL

DEPTH PER PIPE

(MIN, MANUFACTURING

REQ. SAME AS MIN. SUMP)

MANUFACTURER

FRAME & GRATE TO MATCH BASIN O.D.

1 - THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER

GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321 2 - MEDIUM DUTY TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, &

ASPHALT INSTALLATION DETAIL

SHEET NUMBER