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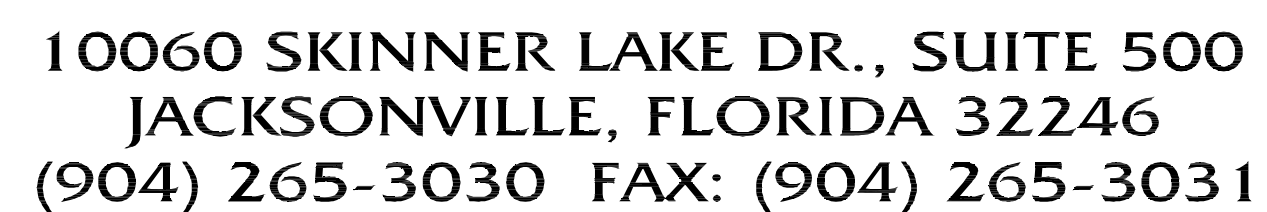
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**PREPARED FOR
SS STORAGE, LLC
2963 DUPONT AVENUE
JACKSONVILLE, FL 32217
PHONE: (904) 732-9400**

VICINITY MAP
N.T.S.

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ALL WATER AND SEWER UTILITY CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH JEA PLANS BEARING THE JEA APPROVAL STAMP AND BE IN POSSESSION OF THE CONTRACTOR AT ALL TIMES.

NOTE: PLANS HAVE BEEN DESIGNED USING 2021
JEA STANDARDS

NOTE:
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JEA AVAILABILITY NO. 2021-0659

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COVER SHEET

WILDLIGHT SOUTH
STORAGE
NASSAU COUNTY
PREPARED FOR
SS STORAGE, LLC

P.E. NUMBER: 72939
Reg. Engineer

Project No.: 21-01-0034	
Designed: AMH	Drawn: DCG
Checked: JEW	O.C.: RCW
Date: JANUARY 2022	
Scale:	
Sheet 1	



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SIGNATURE SHEET

WILDLIGHT SOUTH
STORAGE
NASSAU COUNTY
PREPARED FOR
SS STORAGE, LLC

AUTUMN HUBSCH
P.E. NUMBER: 72939
Reg. Engineer

Sheet 2

THIS DRAWING IS THE PROPERTY OF CONNELLY & WICKER INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED ON REQUEST.

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GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF COUNTY STANDARDS, (LATEST REVISION) AND ALL CURRENT COUNTY STANDARD DETAILS. CONTRACTOR SHALL COMPLY WITH CURRENT A.D.A. CODE FOR ALL WORK ON THIS PROJECT.
- ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS THROUGHOUT THE PROJECT AREA TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL REQUIRED TO BE REMOVED AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED.
- ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND THE COUNTY FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND THE COUNTY.
- ELEVATIONS ARE BASED ON NORTH AMERICAN DATUM OF 1988 (NAV88) AS DETERMINED BY MELROSE SURVEYING AND MAPPING INC.
- FOR BOUNDARY, ROADWAY AND LOT GEOMETRY INFORMATION SEE PLAT.
- THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH COUNTY REQUIREMENTS. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO LIMEROCK PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATIONS FOR UNDERDRAIN PLACEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE FOR THE PROJECT INCLUDING COUNTY RIGHT-OF-WAY PERMITS FOR WORK IN THE COUNTY RIGHT-OF-WAY OR EASEMENT.
- THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.
- ALL PUBLIC DRAINAGE EASEMENTS SHALL BE "UNOBSTRUCTED" EASEMENTS. ALL "UNOBSTRUCTED" EASEMENTS TO BE CLEAR AND DRIVEABLE.
- "AS-BUILT" DRAWINGS - AS-BUILTS TO THE COUNTY AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT COUNTY STANDARDS AND SPECIFICATIONS AND S.J.R.W.M.D. REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY THE COUNTY. A-BUILTS ARE TO BE PREPARED IN ACCORDANCE WITH NASSAU COUNTY REQUIREMENT CHECKLIST.
- THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT, AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THE PROJECT.
- ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH COUNTY STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
- ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
- ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
- BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH COUNTY FIRE MARSHAL.
- ROADWAY UNDERDRAINS SHALL BE AS REQUIRED ON THE PLANS OR AS MAY BE DETERMINED NECESSARY BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF HIGH GROUND WATER CONDITIONS ARE PRESENT DURING THE PREPARATION OF THE PAVEMENT SUB-BASE.
- PROVIDE CONTRACTION JOINTS AT 10' O.C. AND EXPANSION JOINTS AT 50' O.C. ON ALL EXTERIOR SIDEWALKS AND CURBING.
- MAINTENANCE OF TRAFFIC SHALL CONFORM TO F.D.O.T. STANDARD INDEX 600, LATEST EDITION.
- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND IN ACCORDANCE WITH F.D.O.T. STANDARD INDEXES 11860, 17346, AND 17352.
- ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED ROADWAY/SITE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR UTILIZING METHOD APPROVED BY THE COUNTY.
- ALL STORM PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- ALL ROADWAY AND DRAINAGE CONSTRUCTION AND CONSTRUCTION WITHIN NASSAU COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS - ORDINANCE 99-17. THE CONTRACTOR NOTIFY ALL UTILITIES PRIOR TO CONSTRUCTION FOR VERIFICATION AND LOCATION OF ALL UTILITIES.
- NASSAU COUNTY DEVELOPMENT REVIEW INSPECTOR SHALL BE CONTACTED 24 HRS PRIOR TO ALL NECESSARY SITE WORK INSPECTIONS AND 5 DAYS PRIOR TO THE FINAL INSPECTION.
- CONTRACTOR TO HIRE QC OR INDEPENDENT CONTRACTOR DURING ALL ASPHALT WORK.
- CONTRACTOR TO MAKE A CUT IN THE CURB AND GUTTER EVERY FIVE FEET.
- CONTRACTOR WILL BE REQUIRED TO SCHEDULE A WALK THROUGH OF THE SITE WITH THE DEVELOPER AND THE COUNTY 11 MONTHS AFTER COMPLETION OF WORK. THE CONTRACTOR WILL ALSO BE RESPONSIBLE TO FIX ANY PROBLEMS SEEN FIT BY THE COUNTY AT THIS TIME AT THEIR OWN EXPENSE.

UTILITY NOTES:

- THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS, IF REQUIRED, TO THE ENGINEER FOR REVIEW AND APPROVAL, PRIOR TO SUBMITTAL TO THE COUNTY AND JEA, AND PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
- ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH COUNTY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES AND LOW POINTS AS SHOWN ON THE PLANS.
- CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.
- ALL DRAINAGE STRUCTURES TO HAVE TRAFFIC BEARING GRATES. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.
- ALL DRAINAGE STRUCTURES TO HAVE TRAFFIC BEARING GRATES.
- UNSUITABLE MATERIALS UNDER WATER, SEWER PIPE, STORM PIPE OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED.
- ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
- ALL WATER AND SEWER CONSTRUCTION WITHIN THE COUNTY SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 OF THE FLORIDA STATUTES.
- SANITARY SEWER SERVICES SHALL BE 6" OR 8" PVC WITH A MINIMUM SLOPE OF 0.006 OR 0.004 FEET PER FOOT RESPECTIVELY AND SHALL BE TERMINATED AT THE BUILDING CLEANOUT AT THE DEPTH SHOWN ON THE PLANS.
- WATER LINES SHALL HAVE A MINIMUM OF 36" COVER FROM FINISHED GRADE UNLESS OTHERWISE SHOWN. ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH AWWA C651 DISINFECTON STANDARDS. UNDER PAVEMENT AND IN COUNTY RIGHT-OF-WAY, THE MINIMUM DEPTH IS 42" UNDER PAVED AREAS AND 36" UNDER NON-PAVED AREAS FOR SANITARY SEWER MAINS AND WATER MAINS.
- ALL POTABLE PVC PIPE 3 INCHES IN DIAMETER OR LESS SHALL BE LISTED AS NSF-pw AND SHALL BE MARKED AS SUCH.
- WATER AND SEWER LINES ARE DESIGNATED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL FINISHED WORK IS COMPLETE.
- A FULL UN CUT LENGTH OF WATER MAIN PIPE (USUALLY 20 FEET) SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER (INCLUDING STORM) LINES AT THE POINT OF CROSSINGS REGARDLESS OF VERTICAL SEPARATIONS.
- IN THE CASE WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK WILL BE STOPPED AND THE PROPER AUTHORITIES SHALL BE NOTIFIED. WITH THE APPROVAL OF THE FLORIDA HEALTH DEPARTMENT, DUCTILE IRON PIPE, FITTINGS AND APPROVED SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE WILL EXTEND AT LEAST 100 FEET BEYOND ANY DISCOVERED SOLVENT.
- IN REGARD TO THE REQUEST FOR A LETTER OF RELEASE TO PLACE THE POTABLE WATER CONSTRUCTION INTO SERVICE, THE BACTERIOLOGICAL SAMPLE POINTS WILL BE INDICATED IN RED OR PINK ON THE RECORD OR AS-BUILT DRAWINGS, THE SAMPLE NUMBERS WILL CORRESPOND TO THOSE ON THE BACTERIOLOGICAL SAMPLE LAB SHEETS.
- THE RECORD OR AS-BUILT DRAWINGS SUBMITTED AT THE TIME OF REQUEST FOR A LETTER OF RELEASE TO PLACE THE CONSTRUCTION INTO SERVICE WILL CLEARLY DEPICT THE VERTICAL CLEARANCES BETWEEN WATER AND SEWER (INCLUDING STORM) LINES AT ALL CROSSINGS.
- UNLESS OTHERWISE NOTED, ALL WATER MAINS SHALL BE PVC DR18, C-900 AND ALL WATER MAINS 2" OR SMALLER SHALL BE HDPE MANUFACTURED OF PE 4710 MEETING THE APPLICABLE STANDARDS OF ASTM D3350, ASTM D2239 AND NSF-14. HDPE TUBING SHALL BE COPPER TUBE SIZE SDR-9 AND INSERTS SHALL BE 316 STAINLESS STEEL.
- ALL GATE VALVES SHALL BE JEA STANDARD. VALVES SHALL BE MECHANICAL JOINT, CAST IRON, BRONZE FITTED WITH RESILIENT SEAT. ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL BE RATED AT 200 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE.
- ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH AWWA C-600 STANDARDS. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE. THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT.
- ALL FORCE MAINS SHALL BE BE PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH AWWA C-600 STANDARDS.
- A UTILITY COMPANY PRECONSTRUCTION CONFERENCE MUST BE HELD PRIOR TO COMMENCEMENT OF WATER OR SEWER WORK. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY TO SCHEDULE THIS CONFERENCE.
- THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
- ALL NEW AND/OR RELOCATED WATER MAIN PIPES AND FITTINGS SHALL NOT CONTAIN MORE THAN EIGHT PERCENT LEAD AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS. ALL NEW AND/OR RELOCATED WATER SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN EIGHT PERCENT LEAD AND ALL SOLDERES AND FLUX SHALL CONTAIN NO MORE THAN 0.2 PERCENT LEAD.
- CONNECTION IS CONTINGENT UPON CONSTRUCTION, DEDICATION AND FINAL ACCEPTANCE OF THE OFFSITE WATER TRANSMISSION SYSTEM AND SEWER COLLECTION SYSTEM WITHIN THE LIMITS OF THIS PROJECT.
- WATER AND SEWER CAPACITY FEES SHALL BE REQUIRED AT TIME OF METER APPLICATION. FEES WILL BE BASED ON TOTAL NUMBER OF PLUMBING FIXTURE UNITS SHOWN OR LISTED ON BUILDING PLANS.
- ALL PIPES CONFORM TO THE APPROPRIATE AWWA STANDARDS AND SPECIFICATIONS.
- ALL PIPING AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST JEA STANDARDS, DETAILS & MATERIALS MANUAL, CURRENT REVISION.
- METER MUST BE APPLIED AND PAID FOR BY A LICENSED MASTER PLUMBER OR UTILITY CONTRACTOR. APPLICATION IS TO BE MADE AT 515 NORTH LAURA STREET, 1st FLOOR, CUSTOMER SERVICE BUILDING.
- ALL WATER MAIN PRESSURE AND LEAKAGE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600-87 AND JEA'S APPLICABLE STANDARDS AND SPECIFICATIONS. ALL WATER MAIN DISINFECTING SHALL BE IN ACCORDANCE WITH AWWA C651 AND JEA'S APPLICABLE STANDARDS AND SPECIFICATIONS.
- REMOVED.
- THE TAPS ARE TO BE SCHEDULED 48 HOURS ON ADVANCE BY CONTACTING YOUR JEA INSPECTOR.
- ALL NEW PRIVATE ONSITE FIRE HYDRANTS SHALL BE PAINTED RED.
- A WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIALS ACCUMULATE.
- WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO VERTICAL CONSTRUCTION WORK.
- UNDERGROUND MAINS INSTALLATION REQUIRES SEPARATE PERMIT.
- FINAL INSPECTION OF MANHOLES AND TELEVISION INSPECTION OF GRAVITY SEWER SHALL BE REQUIRED PRIOR TO PLACING WASTEWATER COLLECTION SYSTEM INTO SERVICE.

- MECHANICAL RESTRAINING JOINTS ARE REQUIRED IN ACCORDANCE WITH JEA STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS, REDUCERS, VALVES AND TEES.
- TELEVISION INSPECTION SHALL BE REQUIRED ON ALL GRAVITY SEWER MAINS. GRAVITY SEWER LINE SHALL BE VIDEO TAPED TRAVELING UPSTREAM PULLING A MANDREL WITHOUT THE AID OF A MECHANICAL PULLING DEVICE. ALL LINES TO BE CLEANED AND FLUSHED PRIOR TO BEING VIDEO TAPED. A FULL WRITTEN REPORT AS TO THE CONDITION OF THE PIPE WITH PERTINENT DATA SUCH AS DISTANCE BETWEEN MANHOLES, LOCATION OF SERVICES, ETC. SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO ACCEPTANCE. ALL DEFECTIVE AREAS AND ITEMS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE. ALL REPAIRED SECTIONS MUST BE RE-INSPECTED PRIOR TO ACCEPTANCE. THE MAXIMUM DEFLECTION SHALL NOT EXCEED 7.5% OF THE NOMINAL DIAMETER IN ACCORDANCE WITH JEA STANDARDS. INFILTRATION AND EXFILTRATION TESTING OF GRAVITY SEWERS SHALL BE IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS. THE MAXIMUM ALLOWABLE RATE WILL BE 50 GALLONS PER INCH DIAMETER PER MILE PER DAY. PIPE DEFLECTION SHALL NOT EXCEED 80% OF MANUFACTURER'S MAXIMUM DEFLECTION RATING.
- HORIZONTAL SEPARATION BETWEEN WATER MAINS, VALVES, FITTINGS AND SANITARY OR STORM SEWER SHALL BE IN ACCORDANCE WITH F.D.E.P. REGULATIONS. WHERE PARALLEL WATER AND SEWER (INCLUDING STORM) LINES HAVE LESS THAN 6 FEET HORIZONTAL SEPARATION, FULL-UNCUT LENGTHS OF WATER QUALITY PIPE (I.E. 18 AWWA C-900 FOR NEWLY INSTALLED SEWER & DR25 AWWA C-900 WATER) WILL BE USED WITH JOINTS STAGGERED AT 10 FOOT INTERVALS OR THEY WILL BE PLACED ON AN UNDISTURBED SHELF OR IN A SEPARATE TRENCH WITH A MINIMUM VERTICAL SEPARATION OF AT LEAST 18 INCHES, IT IS PREFERABLE TO HAVE THE WATER MAINS LOCATED ABOVE THE SEWER AND WITH 6 FEET OF SEPARATION WHERE POSSIBLE.
- POINT OF CROSSING OF ALL WATER AND SEWER (INCLUDING STORM) LINES AT THE POINT OF CROSSING SHALL BE IN ACCORDANCE WITH F.A.C. RULE 62-555.314. WHERE IT IS NOT POSSIBLE FOR WATER AND SEWER (INCLUDING STORM) LINES TO CROSS WITH A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE, A FULL UN CUT LENGTH OF WATER QUALITY PIPE (I.E. DR 18 AWWW C-900 FOR NEWER INSTALLED SEWER AND DR 25 AWWA C-900 WATER) WHICH IS USUALLY 20 FEET LONG WILL BE CENTERED ON THE POINT OF CROSSING. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL SEPARATION AND INCLUDE THAT INFORMATION ON THE ASBUILT SURVEY. THE MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SEWER (INCLUDING STORM) PIPES IS 18 INCHES IS NOT POSSIBLE WILL BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER. IT IS PREFERABLE TO HAVE THE WATER MAIN ABOVE THE SEWER LINES AND AT LEAST 18 INCHES VERTICAL SEPARATION.
- ANY MANHOLE ADJUSTED AFTER LIMEROCK BASE HAS BEEN COMPACTED SHALL BE BACKFILLED WITH FLOWABLE FILL.
- UNDER PAVEMENT AND IN ROADWAY RIGHT-OF-WAY, THE MINIMUM DEPTH REQUIREMENT UNDER PAVEMENT IS 42" AND 36" IN UNPAVED AREAS FOR WATER AND SEWER MAINS.

DRAINAGE NOTES:

- CONTRACTOR SHALL VERIFY EXISTING ELEVATION AT CONNECTION POINTS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES. THE CONTRACTOR SHALL COORDINATE THE GRADING AND DRAINAGE CONSTRUCTION WITH ALL OTHER CONSTRUCTION.
- SEE GEOTECHNICAL REPORT FOR SITE PREPARATION REQUIREMENTS. PAVEMENT SUBGRADE SHALL HAVE ALL UNSUITABLE MATERIAL REMOVED AND BACKFILLED WITH SUITABLE MATERIAL PER THE GEOTECHNICAL REPORT. ANY UNSUITABLE MATERIAL ENCOUNTERED SHALL BE REMOVED FROM THE SITE.
- A QUALIFIED SOILS LABORATORY SHALL BE ON SITE DURING EXCAVATING TO DETERMINE THE SUITABILITY OF THE EXISTING SUBGRADE AND EXISTING ONSITE MATERIAL PRIOR TO BEGINNING ANY FILLING OPERATION. BORROW MATERIAL TO BE TESTING AND RESULTS PROVIDED FOR CLOSEOUT ACCEPTANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBGRADE, LIMEROCK AND ASPHALT TESTING S REQUIRED BY NASSAU COUNTY.
- THE CONTRACT SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ALL CONSTRUCTION AND MATERIAL SHALL CONFORM WITH THE NASSAU COUNTY STANDARDS.
- THE CONTRACTOR SHALL STAKE THE STORM SEWER SYSTEM AND THE SANITARY SEWER SYSTEM AND SHALL NOTIFY THE ENGINEER OF AN CONFLICTS PRIOR TO THE INSTALLATION OF ANY PIPE.
- ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
- ALL RCP PIPE SHALL MEET THE REQUIREMENTS OF astm C-76.
- ALL PIPE LENGTH ARE APPROXIMATE AND MEASURE TO THE CENTER OF THE STRUCTURE OR MITERED END SECTION. ACTUAL LENGTHS MAY VARY.
- ALL DRAINAGE PIPE JOINTS IN THE NASSAU COUNTY DRAINAGE EASEMENTS AND DRAINAGE RIGHT-OF-WAYS ARE TO BE FILTER WRAPPED.
- CUT AND FILL SLOPES ARE NOT TO EXCEED 4:1 UNLESS OTHERWISE NOTED.
- SLOPES OF NEW POND SHALL BE SODDED TO ONE FOOT (VERTICAL) BELOW NORMAL WATER LINE. 18 INCHES OF SOD IS REQUIRED ALONG EDGE OF PAVEMENT IN ACCORDANCE WITH NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS SECTION 11.8.2. CONSTRUCTION AREAS WITHIN COUNTY RIGHT-OF-WAY AND EASEMENTS SHALL BE TREATED WITH SOD TO PROTECT THESE AREAS FROM EROSION. GRASSES SHALL BE ARGENTINE BAHIA, BERMUDA OR AN APPROVED ALTERNATIVE.
- STORMWATER COLLECTION SYSTEM DESIGN IS BASED ON THE 5-YEAR STORM EVENT (RATIONAL METHOD). STORMWATER DETENTION PONDS HAVE BEEN DESIGNED TO ATTENUATE PEAK FLOWS FOR THE 25-YEAR STORM EVENT (SCS METHOD).
- ALL AREES SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WIT NASSAU COUNTY STANDARDS AND SHALL BE FILLED WITH CLEAN FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
- ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED AND PRESERVED.
- BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH THE NASSAU COUNTY FIRE MARSHALL.
- CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATION. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS, A ND REPLACE ALL PINS ELIMINATED OR DAMAGE DURING CONSTRUCTION.
- PROPOSED SPOT ELEVATIONS REPRESENT FINISHED GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL NPDES PERMIT THE CONTRACTOR OBTAINS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- STORM WATER PIPE TO BE VIDEO INSPECTED IN ACCORDANCE WITH NASSAU COUNTY REQUIREMENTS.

EROSION & SEDIMENT CONTROL NOTES:

- THESE PLANS INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL-A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. THE CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS AND FINES.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR

- GRASS PER COUNTY STANDARDS AND MEETING THE N.P.D.E.S. FINAL STABILIZATION REQUIREMENTS.
- IF DEWATERING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
 - PRIOR TO COMMENCEMENT OF CONSTRUCTION AND EXCAVATION ACTIVITIES, THE CONTRACTOR SHALL PERFORM GROUNDWATER TESTING IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY FEDERAL REGISTER, PAGE 42739, PART 14.3, TO DETERMINE PETROLEUM CONTAMINATION LEVELS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING N.P.D.E.S. PERMIT, IF REQUIRED, IN ORDER TO DISCHARGE ANY GROUNDWATER ENCOUNTERED DURING CONSTRUCTION AND DEWATERING OPERATIONS.
 - 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS.
 - THE CONTRACTOR SHALL WRAP STORM SEWER GRATES IN FILTER FABRIC TO PREVENT SEDIMENTATION OF THE STORM SEWER SYSTEM. CONTRACTOR SHALL MAINTAIN THE FILTER FABRIC UNTIL THE ASPHALT/CONCRETE PAVEMENT IS PLACED.
 - THE CONTRACTOR SHALL PROTECT ALL STORMWATER BASINS AND/OR SWALES FROM SEDIMENTATION DURING CONSTRUCTION USING NECESSARY SEDIMENT CONTROL BARRIERS.
 - IN THE EVENT OF DELAYS IN CONSTRUCTION, THE CONTRACTOR SHALL SEED ALL AREAS AND MAINTAIN EROSION CONTROL BARRIERS IN PLACE TO PREVENT EROSION, SILTATION AND AND INCREASE RUNOFF.

PAVING AND DRAINAGE LEGEND

EXISTING	PROPOSED	
		SPOT ELEVATION
		CONTOURS
		BOUNDARY
		DRAINAGE DIVIDE
		STORM SEWER AND SIZE
		STORM SEWER INLET
		STORM SEWER MANHOLE
		MITERED END SECTION
		DRAINAGE FLOW ARROWS
		DITCH FLOW ARROWS
		STRUCTURE NUMBERS
		DRAINAGE AREA
		SOIL BORING LOCATION
		UNDERDRAIN
		CONCRETE SIDEWALK
		CONCRETE CURB AND GUTTER
		JURISDICTIONAL WETLANDS
		SILT FENCE
		HAY BALES

WATER AND SEWER LEGEND

EXISTING	PROPOSED	
		SANITARY SEWER LINE
		SANITARY SEWER SERVICE
		SANITARY SEWER MANHOLE
		CLEANOUT
		FORCE MAIN
		WATER MAIN
		REUSE WATER MAIN
		FIRE PROTECTION MAIN
		FIRE HYDRANT
		FLUSHING HYDRANT
		GATE VALVE
		REDUCER
		TEE
		BEND
		WATER METER
		BACKFLOW PREVENTER

	COMPANY	CONTACT / TELEPHONE #
WATER SERVICE	JE A	CHRIS BARRINGTON / 665-4081
SEWER SERVICE	JE A	CHRIS BARRINGTON / 665-4081
ELECTRIC SERVICE	FP&L	ROBERT HADDOCK/ 225-3003
TELEPHONE	AT&T	MARVIN FISHER / 727-1544
CABLE	COMCAST	LARRY WNBURN / 380-7574

Project No.: 21-01-0034	Drawn: DCG
Designed: AMH	O.C.: RCW
Checked: JEW	
Date: January 2022	
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Sheet	3

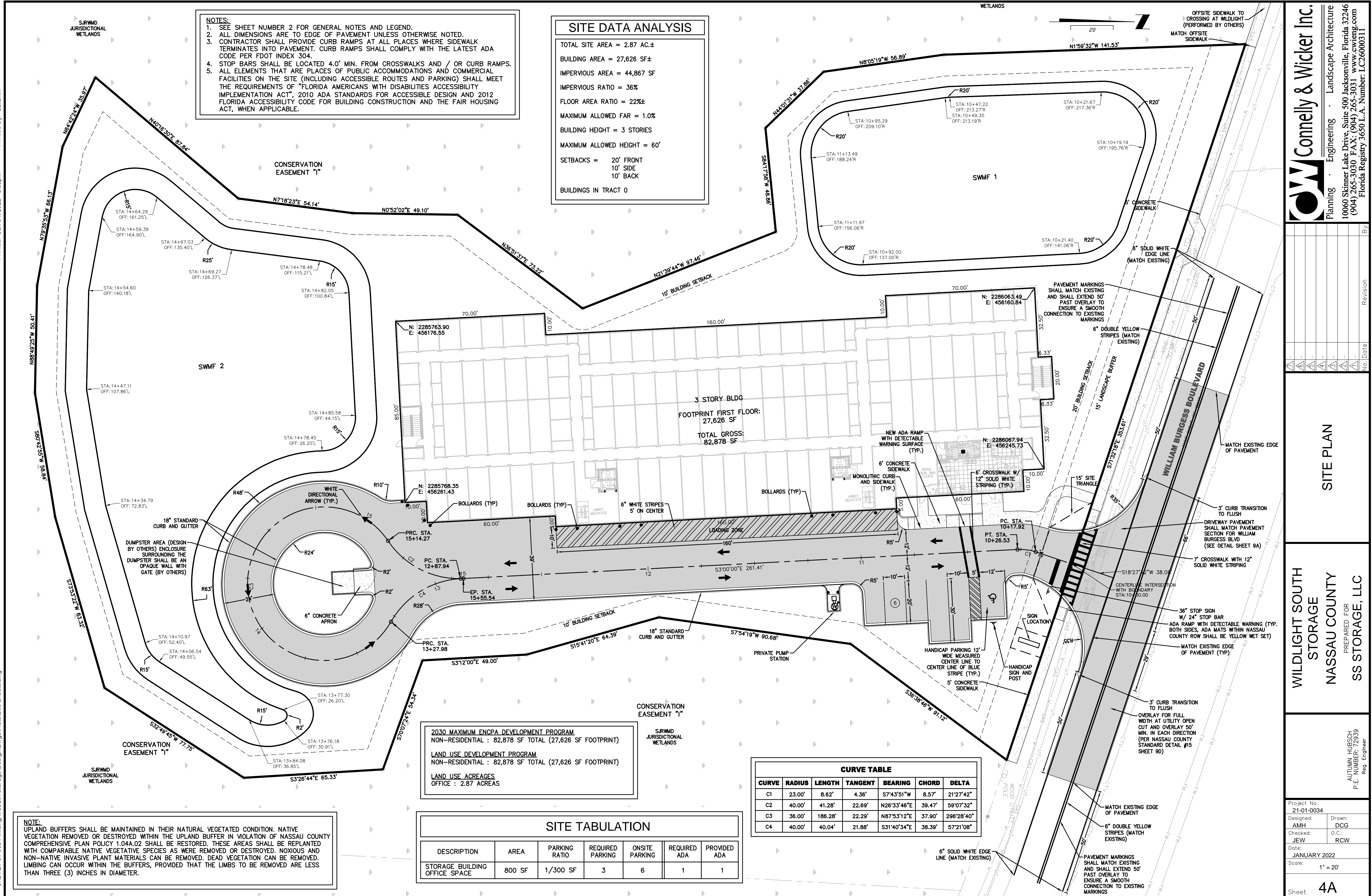
GENERAL NOTES AND
LEGEND

WILDLIGHT SOUTH
STORAGE
NASSAU COUNTY
PREPARED FOR
SS STORAGE, LLC

AUTUM HUBSCH
P.E. NUMBER: 72939
Reg. Engineer

Planning · Engineering · Landscape Architecture
Connelly & Wicker Inc.
10060 Skimmer Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3030 FAX: (904) 265-3031 www.cweng.com
Florida Registry 3650 L.A. Number: LC26000311

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NOTES:

1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
4. STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
5. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMEROIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.

NOTE:

UPLAND BUFFERS SHALL BE MAINTAINED IN THEIR NATURAL VEGETATED CONDITION. NATIVE VEGETATION REMOVED OR DESTROYED WITHIN THE UPLAND BUFFER IN VIOLATION OF NASSAU COUNTY COMPREHENSIVE PLAN POLICY 1.04A.02 SHALL BE RESTORED. THESE AREAS SHALL BE REPLANTED WITH COMPARABLE NATIVE VEGETATIVE SPECIES AS WERE REMOVED OR DESTROYED. NOXIOUS AND NON-NATIVE INVASIVE PLANT MATERIALS CAN BE REMOVED. DEAD VEGETATION CAN BE REMOVED. LIMBING CAN OCCUR WITHIN THE BUFFERS, PROVIDED THAT THE LIMBS TO BE REMOVED ARE LESS THAN THREE (3) INCHES IN DIAMETER.



Project No.:
21-01-0034

Designed:
AMH

Checked:
JEW

Date:
JANUARY 2022

Scale:
1" = 20'

Drawn:
DCG

O.C.:
RCW

Sheet
4B

WILDLIGHT SOUTH
STORAGE

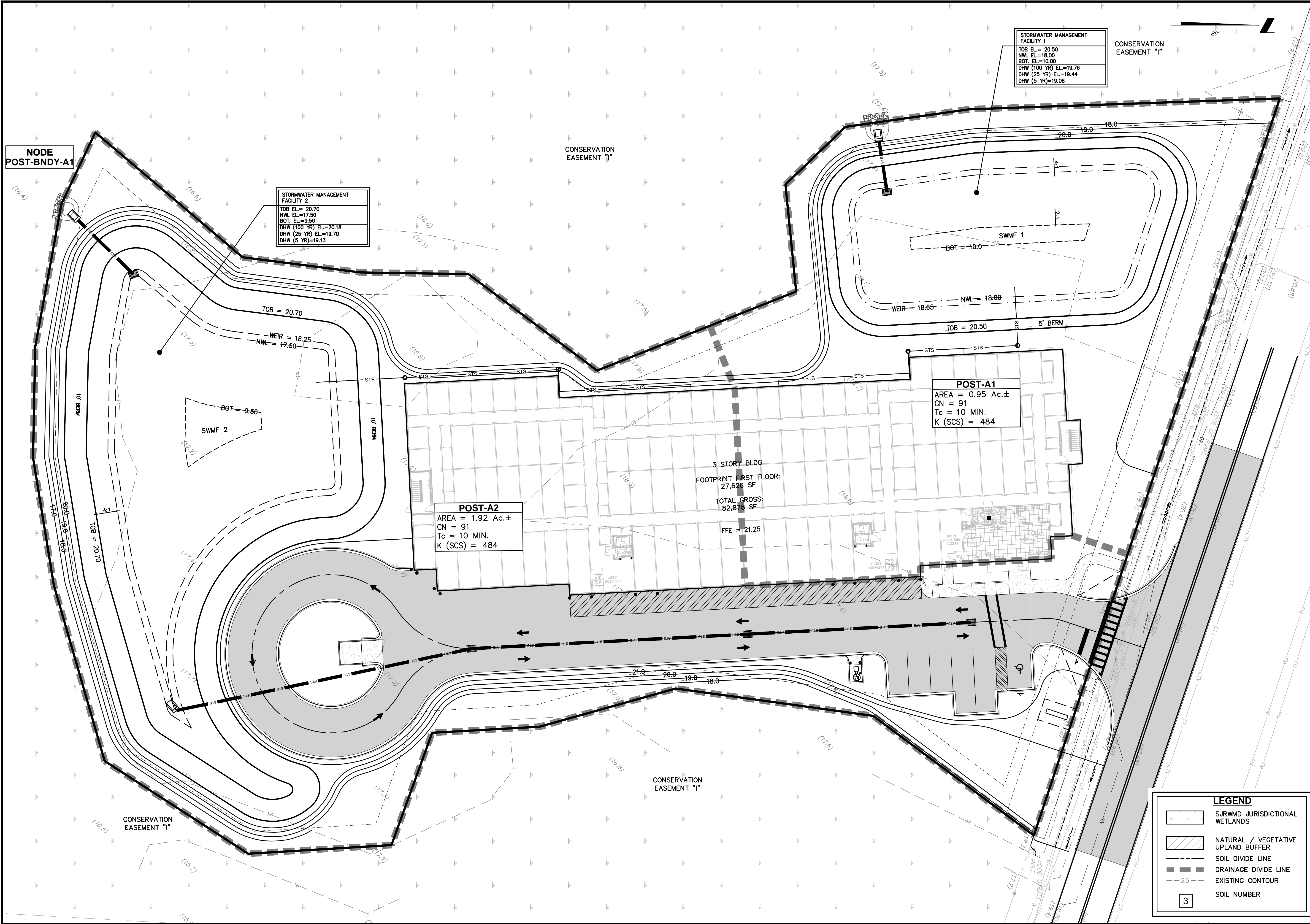
SS STORAGE, LLC

PREPARED FOR
NASSAU COUNTY

OFFSITE SIDEWALK
PLAN

Autumn Hubbsch
P.E. NUMBER: 72839
Reg. Engineer

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(904) 265-3030 FAX: (904) 265-3031 www.cwieng.com
Florida Registry 3650 L.A. Number: LC26000311



NODE
POST-BNDY-A1

STORMWATER MANAGEMENT
FACILITY 2
TOB EL= 20.70
NWL EL=17.50
BOT EL=9.50
DHW (100 YR) EL=20.18
DHW (25 YR) EL=19.70
DHW (5 YR)=19.13

STORMWATER MANAGEMENT
FACILITY 1
TOB EL= 20.50
NWL EL=18.00
BOT EL=10.00
DHW (100 YR) EL=19.76
DHW (25 YR) EL=19.44
DHW (5 YR)=19.08

CONSERVATION
EASEMENT "I"

POST-A1
AREA = 0.95 Ac.±
CN = 91
Tc = 10 MIN.
K (SCS) = 484

POST-A2
AREA = 1.92 Ac.±
CN = 91
Tc = 10 MIN.
K (SCS) = 484

3 STORY BLDG
FOOTPRINT FIRST FLOOR:
27,626 SF
TOTAL GROSS:
82,878 SF
FFE = 21.25

LEGEND

- SURWMD JURISDICTIONAL WETLANDS
- NATURAL / VEGETATIVE UPLAND BUFFER
- SOIL DIVIDE LINE
- DRAINAGE DIVIDE LINE
- EXISTING CONTOUR
- SOIL NUMBER

WILDLIGHT SOUTH STORAGE

POST DEVELOPMENT DRAINAGE PLAN

Project No.: 21-01-0034

Designed: AMH

Checked: JEW

Date: JANUARY 2022

Scale: 1" = 20'

Drawn: DCG

O.C.: RCW

Sheet **6**

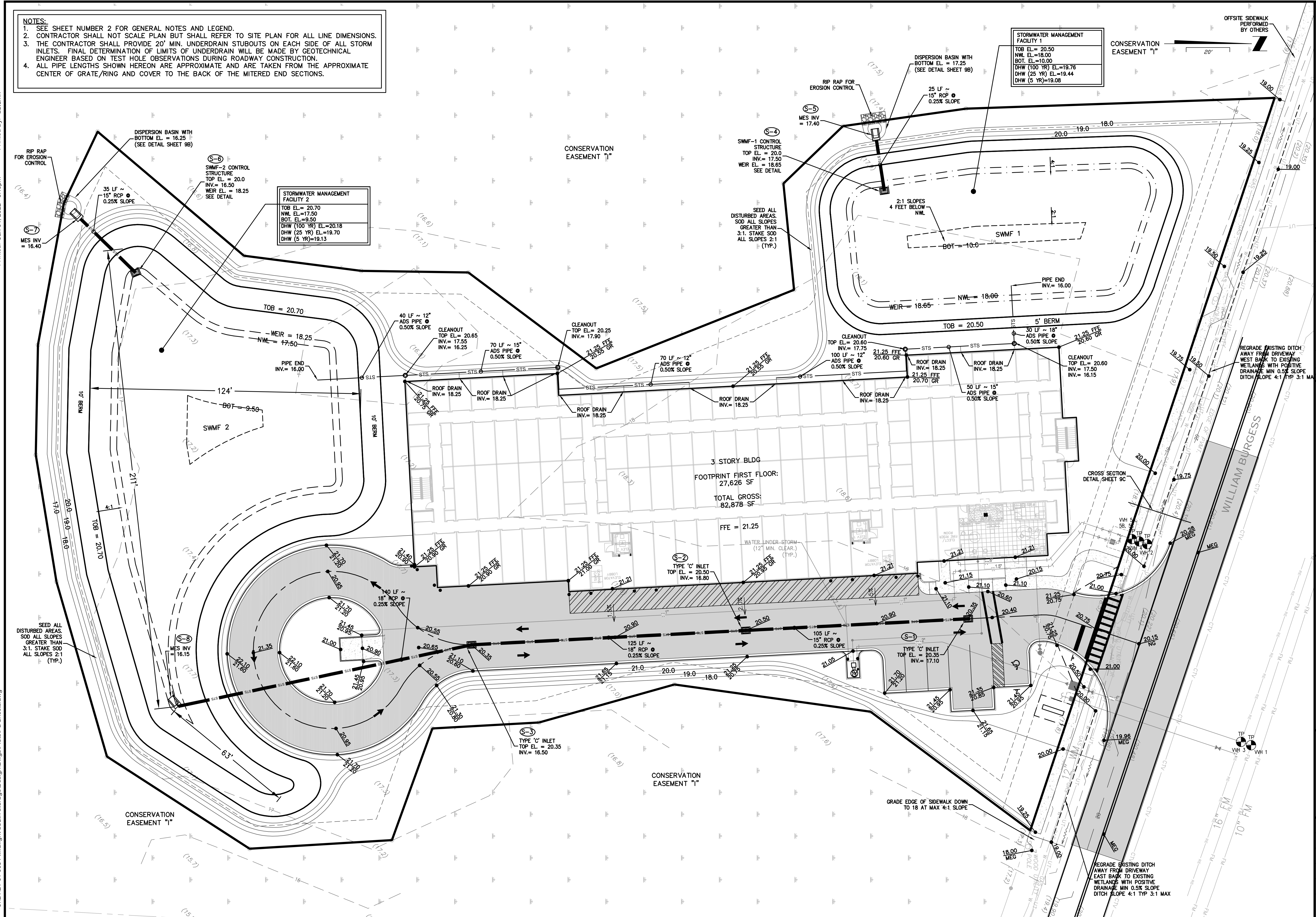
CONNELLY & WICKER INC.

Planning • Engineering • Landscape Architecture

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1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL NOT SCALE PLAN BUT SHALL REFER TO SITE PLAN FOR ALL LINE DIMENSIONS.
3. THE CONTRACTOR SHALL PROVIDE 20' MIN. UNDERDRAIN STUBOUTS ON EACH SIDE OF ALL STORM INLETS. FINAL DETERMINATION OF LIMITS OF UNDERDRAIN WILL BE MADE BY GEOTECHNICAL ENGINEER BASED ON TEST HOLE OBSERVATIONS DURING ROADWAY CONSTRUCTION.
4. ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE/RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.



CW **Connelly & Wicker Inc.**
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Florida Registry 3650 L.A. Number: LC26000311

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PAVING AND DRAINAGE SHEET

WILDLIGHT SOUTH
STORAGE
NASSAU COUNTY
PREPARED FOR
SS STORAGE, LLC

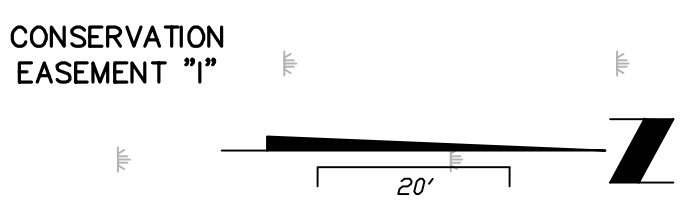
AUTUMN HUBSCH
P.E. NUMBER: 72939
Reg. Engineer

Project No.: 21-01-0034	
Designed: AMH	Drawn: DCG
Checked: JEW	O.C.: RCW
Date: JANUARY 2022	
Scale: 1" = 20'	


Sheet 7

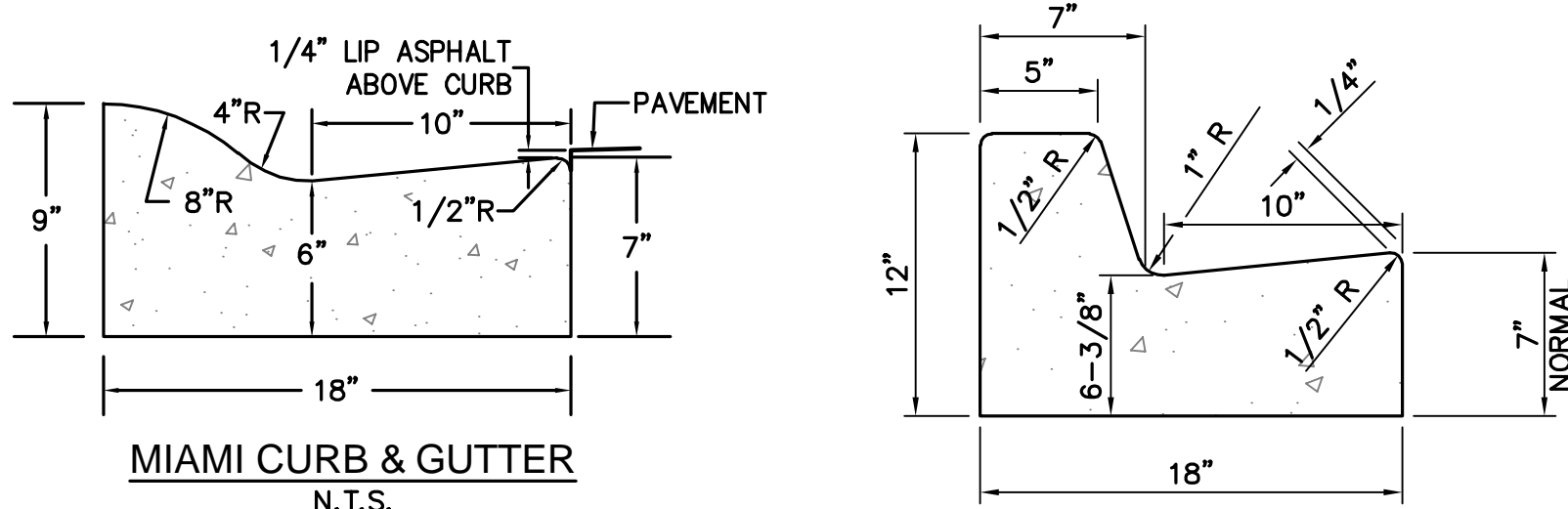
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UTILITY TEST HOLE INFORMATION						
TEST HOLE #	UTILITY DESCRIPTION	QTY	SIZE	MATERIAL	COVER	NOTES
VVH #1	SEWER FORCEMAIN	1	16"	PVC	4.70	FOUND 16" PVC FM @ 4.70'
VVH #2	WATERMAIN	1	12"	PVC	3.73	FOUND 12" WM @ 3.73'
VVH #3	REUSE MAIN	1	16"	PVC	3.82	FOUND 12" PURPLE PVC RW @ 3.82'
VVH #4	GAS MAIN	1	6"	PVC	7.35	FOUND 6" STL GAS MAIN @ 7.35'
VVH #5A	COMM	1	1.5"	PE	2.84	FOUND 1.5" PE @ 2.84'
VVH #5B	COMM	1	1.5"	PE	2.75	FOUND 1.5" PE @ 2.75'
VVH #5C	COMM	1	1"	DBC	2.72	FOUND 1" DIRECT BURIED CABLE @ 2.72'

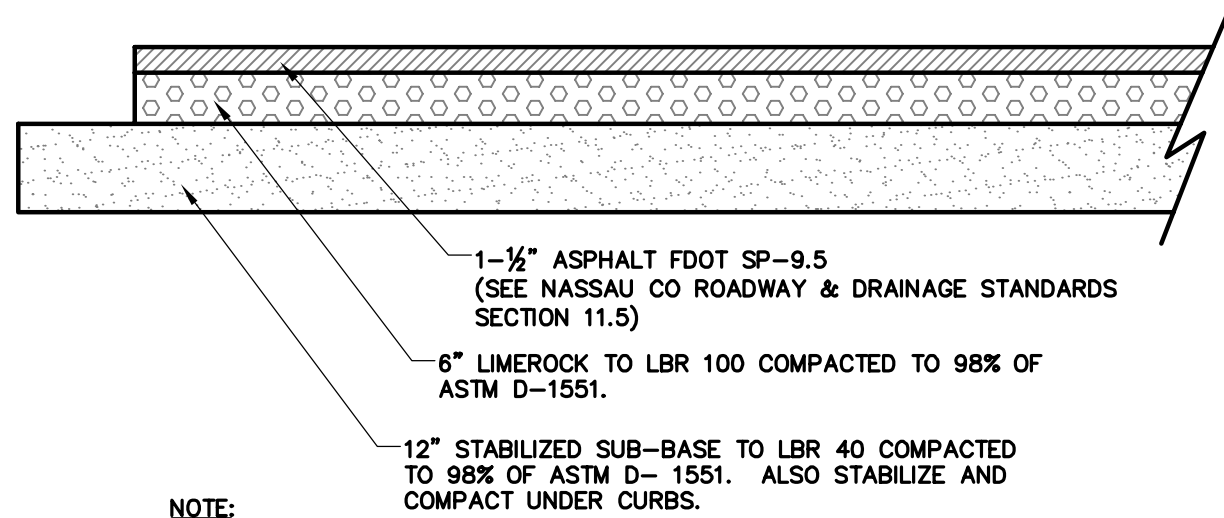
Project No.: 21-01-0034		WILDLIGHT SOUTH STORAGE NASSAU COUNTY PREPARED FOR SS STORAGE, LLC		WATER AND SEWER PLAN		A... A... A... A... A... A... A... A... A... A...		 CW Connelly & Wicker Inc.	
Designed: AMH		Drawn: DCG		Planning · Engineering · Landscape Architecture		10060 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246 (904) 265-3030 FAX: (904) 265-3031 www.cweng.com Florida Registry 3650 L.A. Number: LC26000311		No. Date Revision By	
Date: JANUARY 2022		O.C.: RCW		10060 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246 (904) 265-3030 FAX: (904) 265-3031 www.cweng.com Florida Registry 3650 L.A. Number: LC26000311		No. Date Revision By		No. Date Revision By	
Scale: 1:20		AUTUMN HUBSCH P.E. NUMBER: 72939 Reg. Engineer		No. Date Revision By		No. Date Revision By		No. Date Revision By	
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NOTE: WHEN USED ON HIGH SIDE OF ROADWAY, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.

CURB AND CURB & GUTTER NOTES:
1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LATEST FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. CONCRETE SHALL BE CLASS 1 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
3. WHEN USED ON THE HIGH SIDE OF ROADWAY SECTIONS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. WHERE THIS CONDITION IS ENCOUNTERED, THE FRONT FACE VERTICAL DIMENSION SHALL REMAIN AS SHOWN FOR NORMAL SECTIONS SHOWN HEREON.

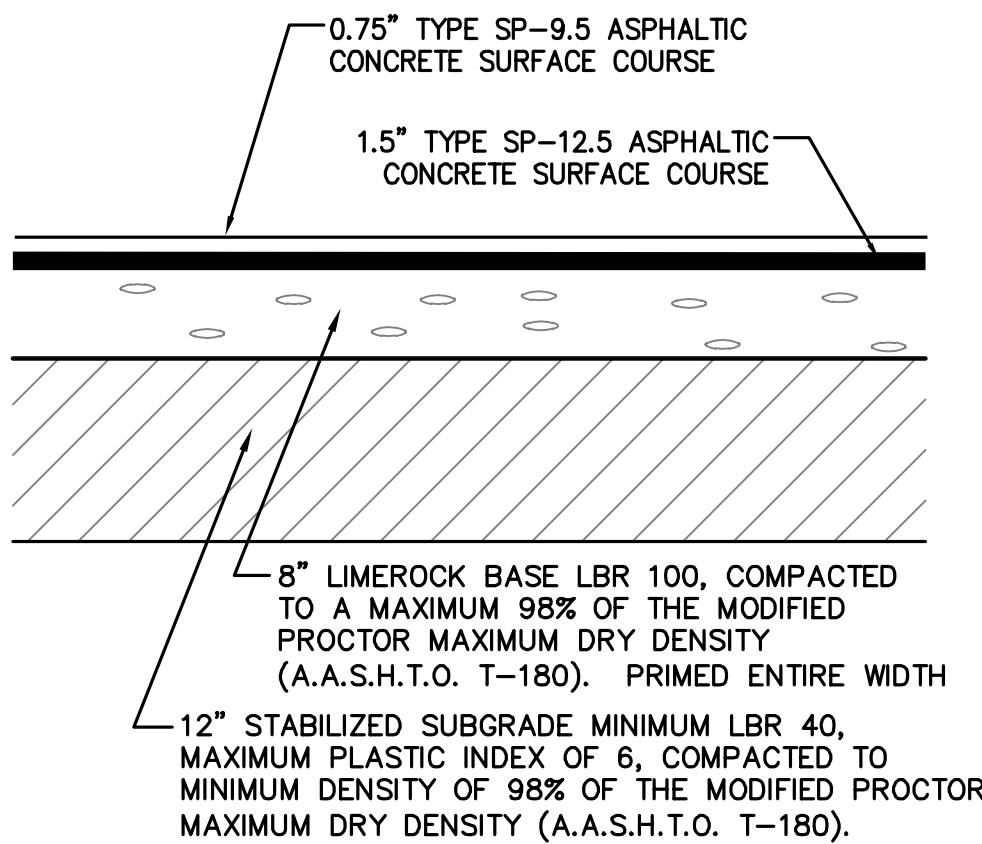
STANDARD CURB & GUTTER
N.T.S.



NOTE:

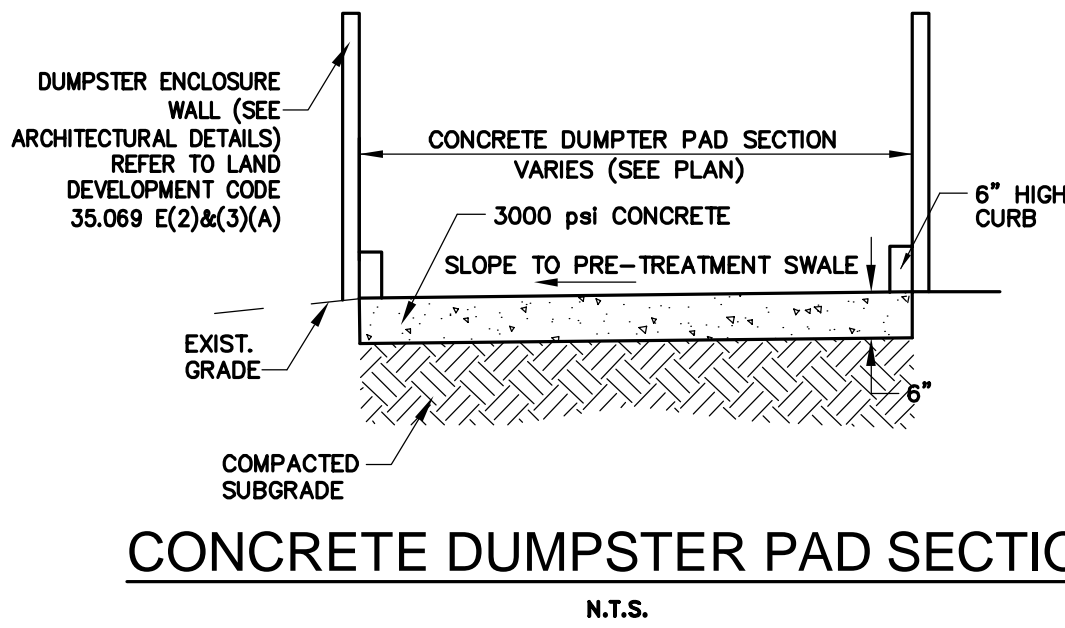
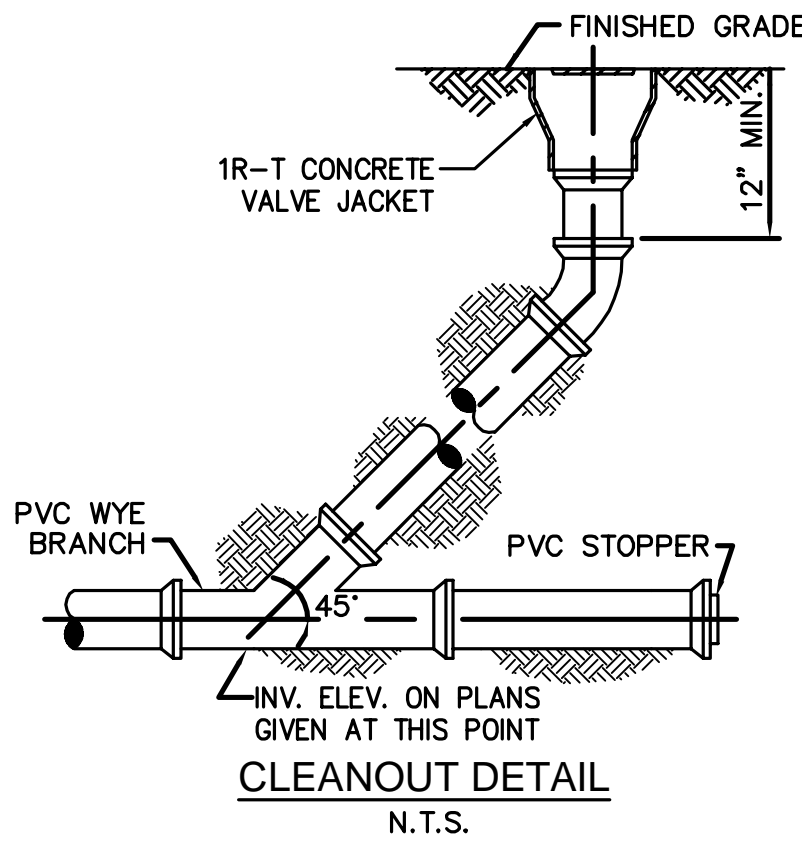
1. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED. ALL AREAS WHERE SOD HAS BEEN DISTURBED OR REMOVED SHALL BE SODDED TO SATISFACTION OF OWNER.

TYPICAL PAVEMENT SECTION

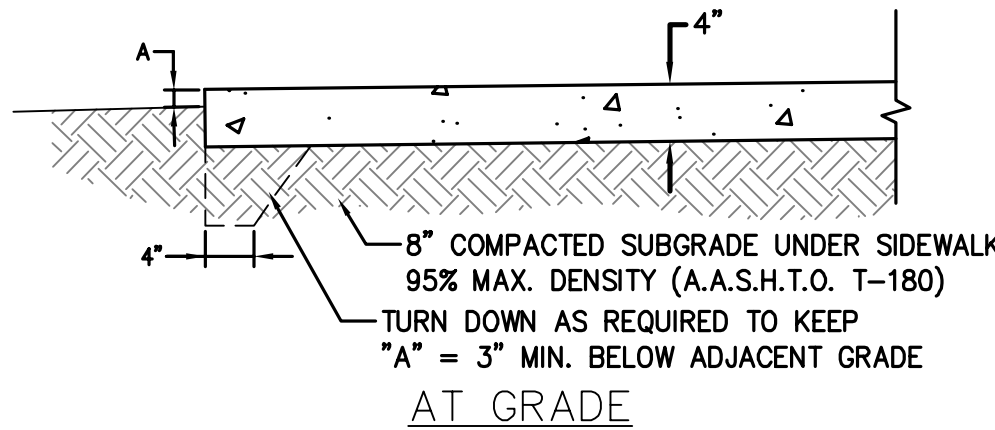


NOTES:
1. ANY DISTURBED AREAS WITHIN NASSAU COUNTY RIGHT-OF-WAY SHALL BE SODDED PER NASSAU COUNTY GENERAL DEVELOPMENT NOTE #7.
2. SOIL ANALYSIS MAY INDICATE THE NEED FOR THICKER BASE COURSES THAN THOSE HEREIN. THE PAVEMENT THICKNESS SHOWN HEREIN ARE NOT INTENDED TO BE ABSOLUTE, BUT ARE PRELIMINARY CRITERIA AND MAY BE MODIFIED TO ACCOMMODATE THE BEARING CAPACITY OF VARIOUS SUBGRADES.
3. ALL ASPHALTIC CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 331 AND/OR 333, FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
4. THE ASPHALTIC CONCRETE PAVEMENT CONSTRUCTION SHALL MEET THE REQUIREMENTS SPECIFIED IN NASSAU COUNTY LAND DEVELOPMENT CODE (ROADWAY PAVEMENT REQUIREMENTS).

WILLIAM BURGESS ROW PAVEMENT SECTION
N.T.S.



CONCRETE DUMPSTER PAD SECTION
N.T.S.



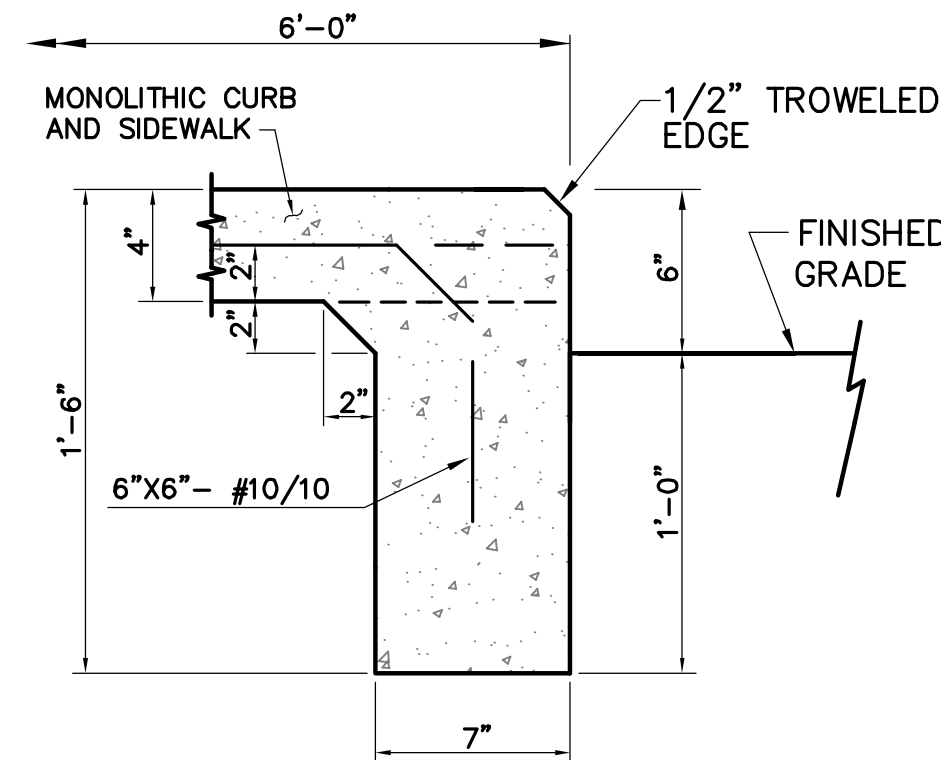
NOTES:
1. CONSTRUCT STRAIGHT JOINTS WITH FACE PERPENDICULAR TO SURFACE OF CONCRETE. TRAVERSE JOINTS SHALL BE AT RIGHT ANGLES TO CENTERLINE UNLESS OTHERWISE INDICATED ON PLANS.
2. PROVIDE EXPANSION JOINTS AT 100' INTERVAL MAXIMUM SPACING ON CENTER.
3. PROVIDE EXPANSION JOINTS FILLER FOR JOINTS ABUTTING CURBS, CATCH BASINS, MANHOLES, INLETS STRUCTURES, WALKS AND OTHER FIXED OBJECTS UNLESS OTHERWISE INDICATED ON PLANS.
4. EXTEND JOINTS FILLER FULL WIDTH AND DEPTH OF JOINT, AND 1/2" BELOW FINISHED SURFACE. PLACE SEALANT OVER JOINT FILLER PER MANUFACTURERS RECOMMENDATIONS.
5. USE PREMOLDED ASPHALT-IMPREGNATED FIBERBOARD, 1/2" THICK CONFORMING TO ASTM D1751.
6. CONTRACTION JOINT SHALL BE SAW CUT (1/4" WIDE BY 1" DEEP).
7. FINISHED SURFACE FOR CONCRETE SIDEWALK SHALL BE GRAY CONCRETE WITH LIGHT BROOM FINISH PERPENDICULAR TO LINE OF TRAFFIC.
8. PROVIDE CRACK CONTROL JOINTS (SAME AS WIDTH) O.C.
9. PROVIDE 16" STRIP SOD ADJACENT TO ALL EDGES OF SIDEWALK, CURB AND PAVEMENT AREAS.
10. CONCRETE COMPRESSION STRENGTH 3000 P.S.I. @ 28 DAYS
11. SIDEWALK TO BE CONSTRUCTED WITH SLOPES COMPLYING TO WITH LATEST ADA CODE AND FDOT INDEX 304. SIDEWALK MAX VERTICAL SLOPE OF 5.0% AND MAX CROSS SLOPE OF 2.0%

CONCRETE WALK
N.T.S.



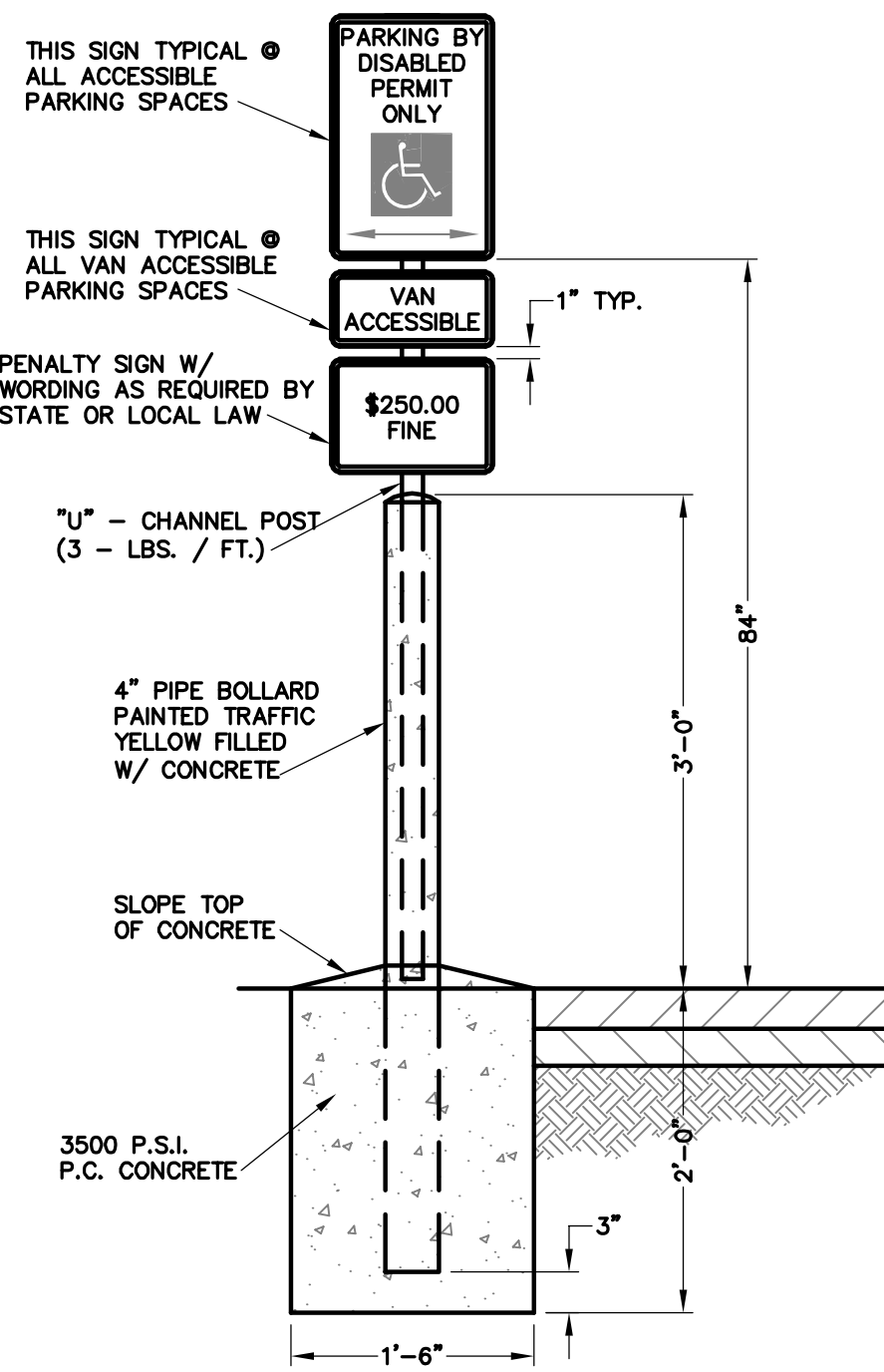
NOTE:
THE STOP SIGN SHALL BE OCTAGON WITH WHITE MESSAGE AND BORDER ON A RED BACKGROUND. IT SHALL BE OF HIGH-INTENSITY DIAMOND GRADE SHEETING MATERIAL.
THE POSTS AND BRACKETS WILL BE PER FDOT STANDARD INDEX 11860 AND 11861.
ALL SIGNS INSTALLED SHALL CONFORM TO THE CRITERIA IN THE MUTCD AND FDOT STANDARDS AND SPECIFICATIONS.

STOP SIGN DETAIL
N.T.S.



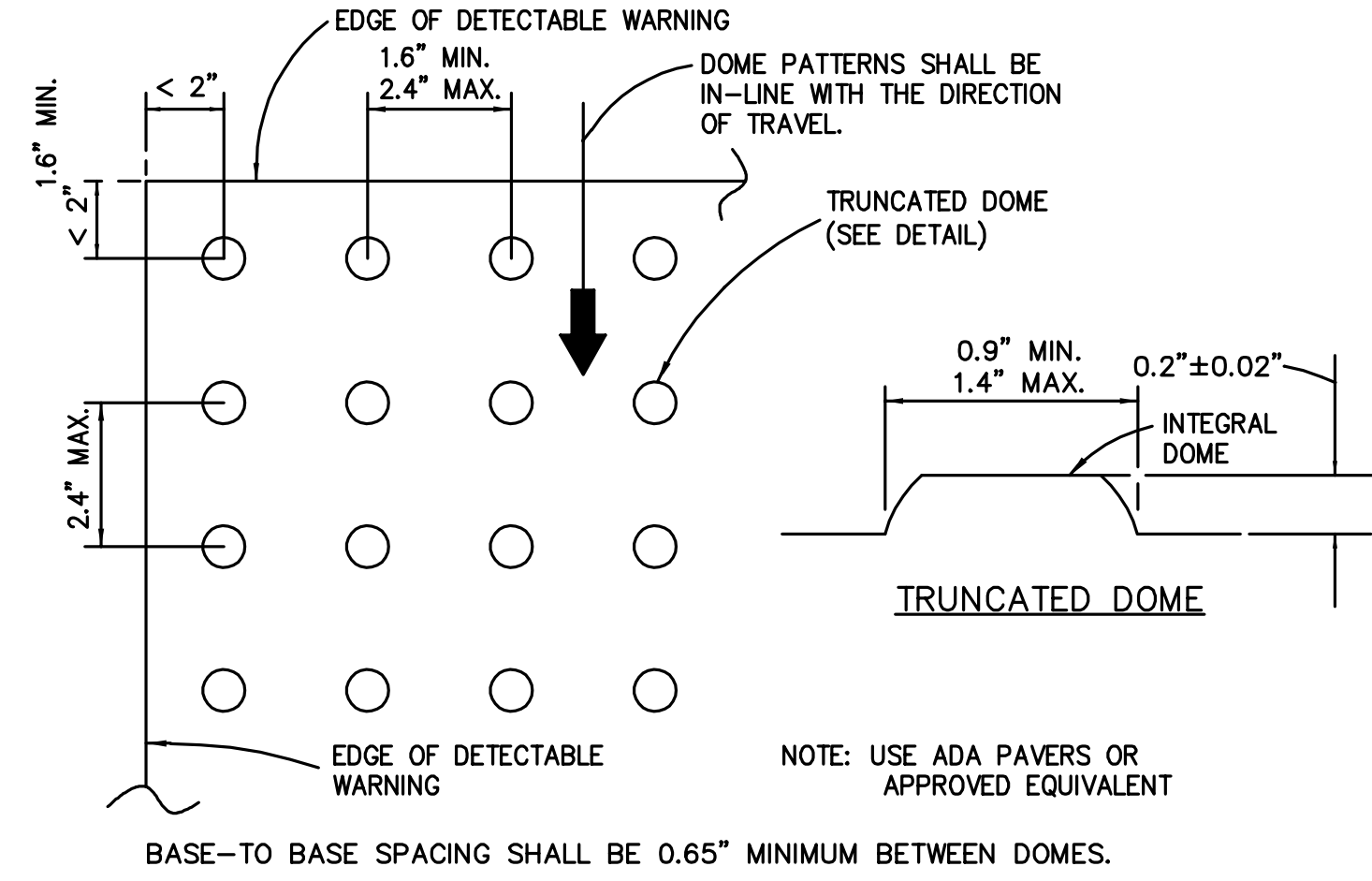
NOTES:
1. PROVIDE TROWELED JOINTS IN SIDEWALK EQUALLY SPACED AT INTERVALS APPROX. EQUAL TO THE SIDEWALK WIDTH.
2. PROVIDE 1/2" EXPANSION JOINT WITH PRE MOLDED EXPANSION JOINT FILLER AT ALL INTERSECTIONS, STRUCTURES OR BUILDINGS AND AT A MAXIMUM SPACING OF 40 FEET.

MONOLITHIC CURB & SIDEWALK DETAIL
N.T.S.



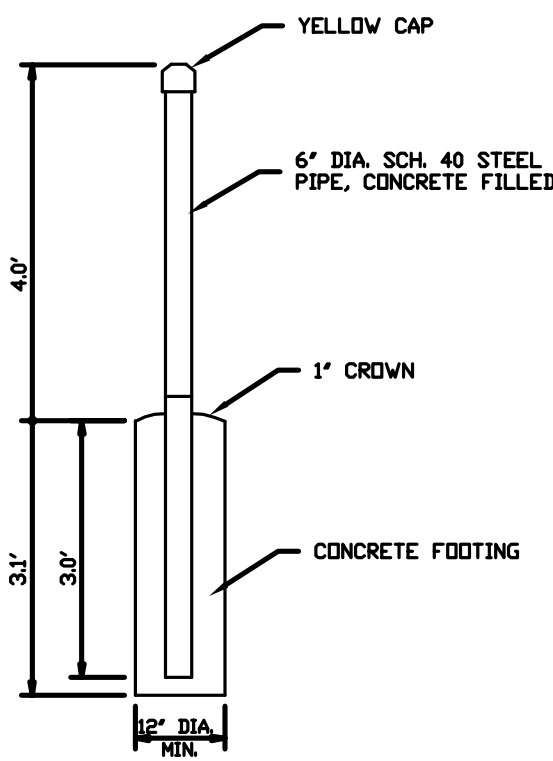
ALL SIGNS INSTALLED SHALL CONFORM TO THE CRITERIA IN THE MUTCD AND FDOT STANDARDS AND SPECIFICATIONS.

ACCESSIBLE PARKING SIGN
N.T.S.



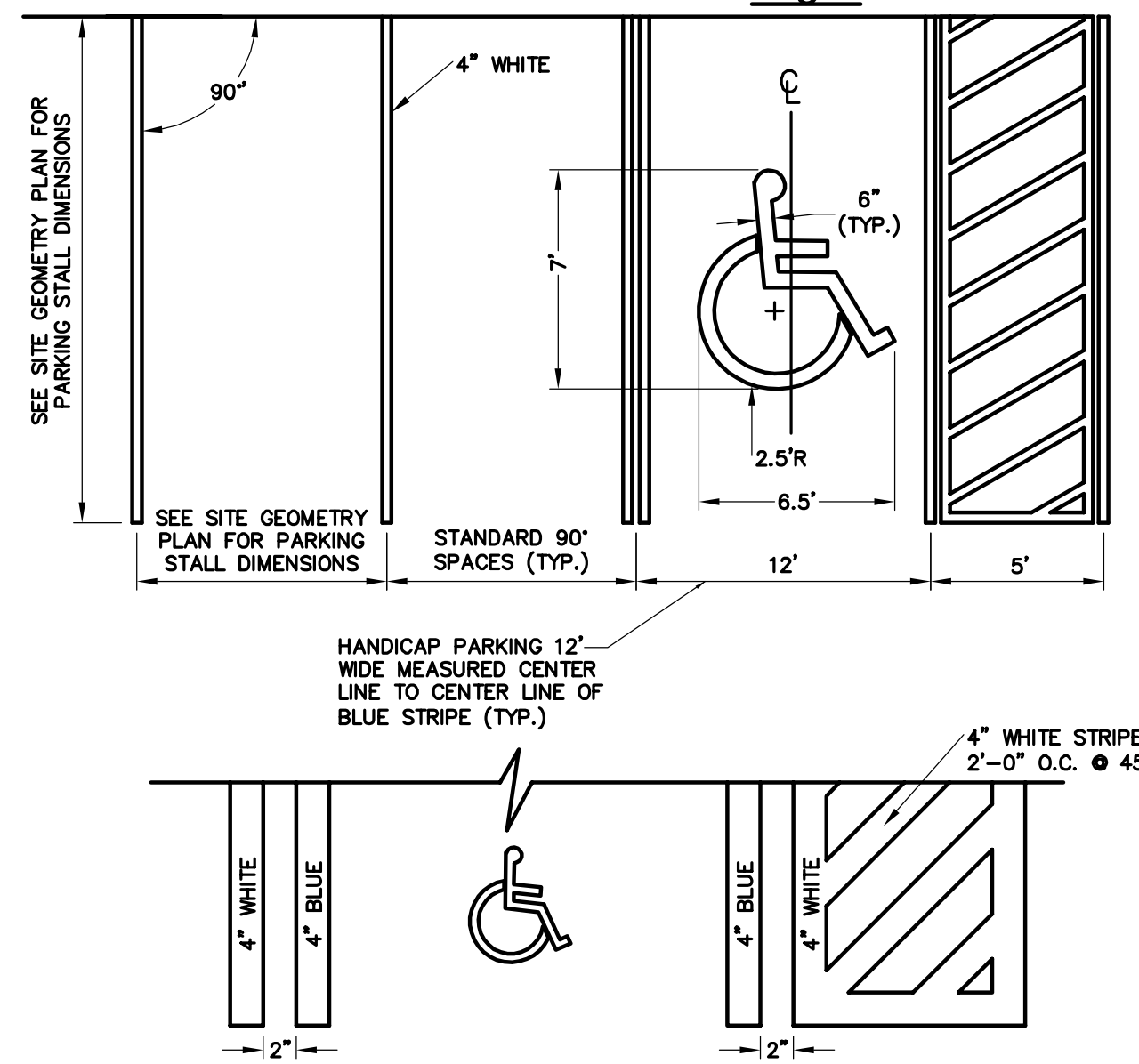
ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB

CURB RAMP DETECTABLE WARNING
N.T.S.



BOLLARD DETAIL
NOT TO SCALE

ALL SIGNS SHALL COMPLY W/ U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION LOCAL AND STATE CODES AND AS SPECIFIED. MOUNT SIGNS IN ACCORDANCE W/ MANUFACTURER'S INSTRUCTIONS AND PER STATE AND LOCAL CODES.



ACCESSIBLE STRIPING

HANDICAP STRIPING
N.T.S.

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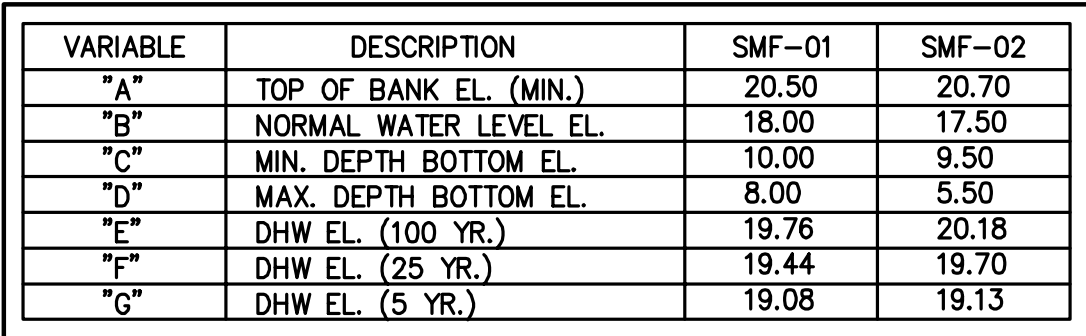


TYPE 'A' BEDDING & TRENCH DETAIL
N.T.S.

TYPE 'B' BEDDING & TRENCH DETAIL
N.T.S.

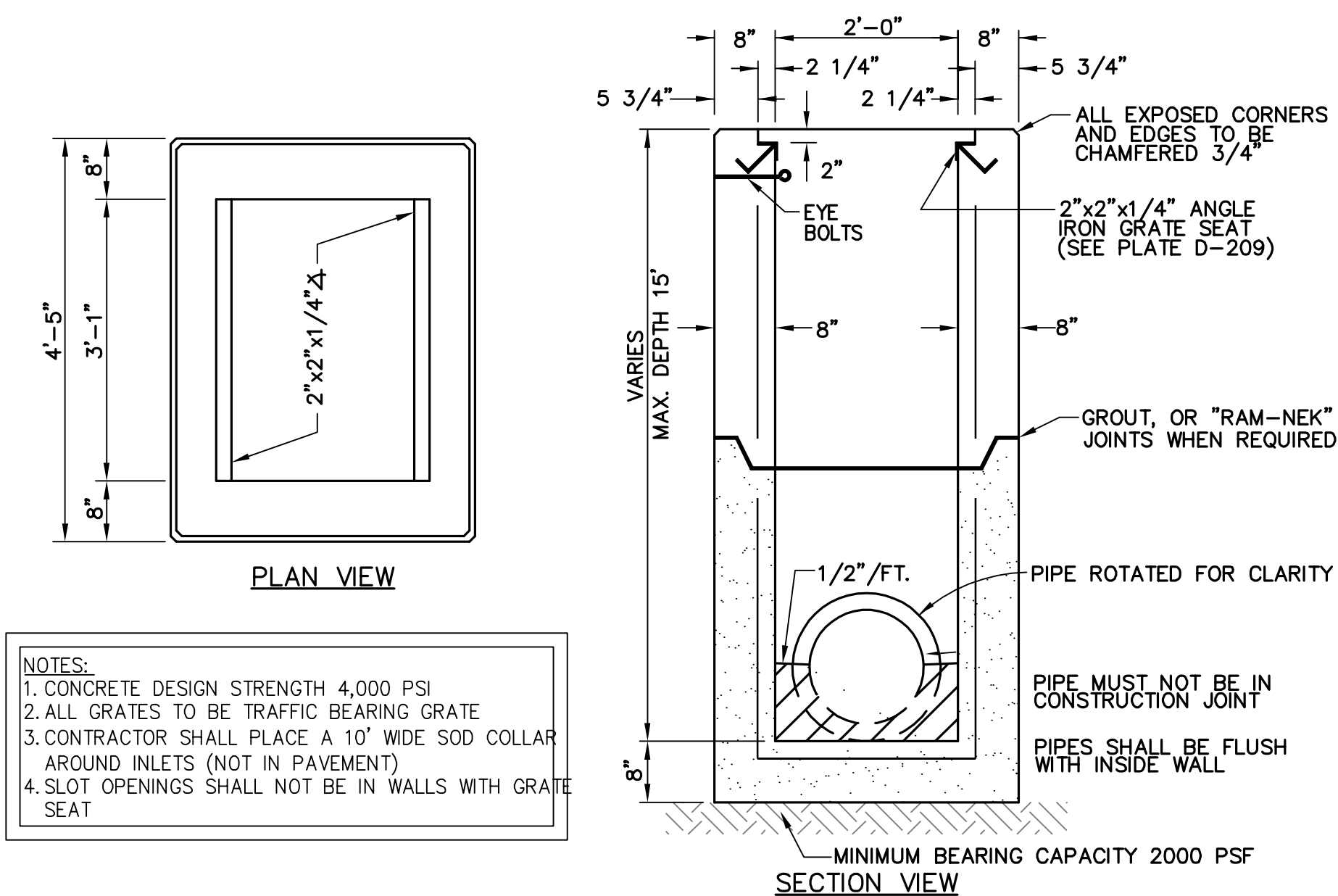
TYPICAL RIPRAP DISPERSION BASIN DETAIL

ROADWAY UNDERDRAIN DETAIL - TYPE 1 U.D.
N.T.S.

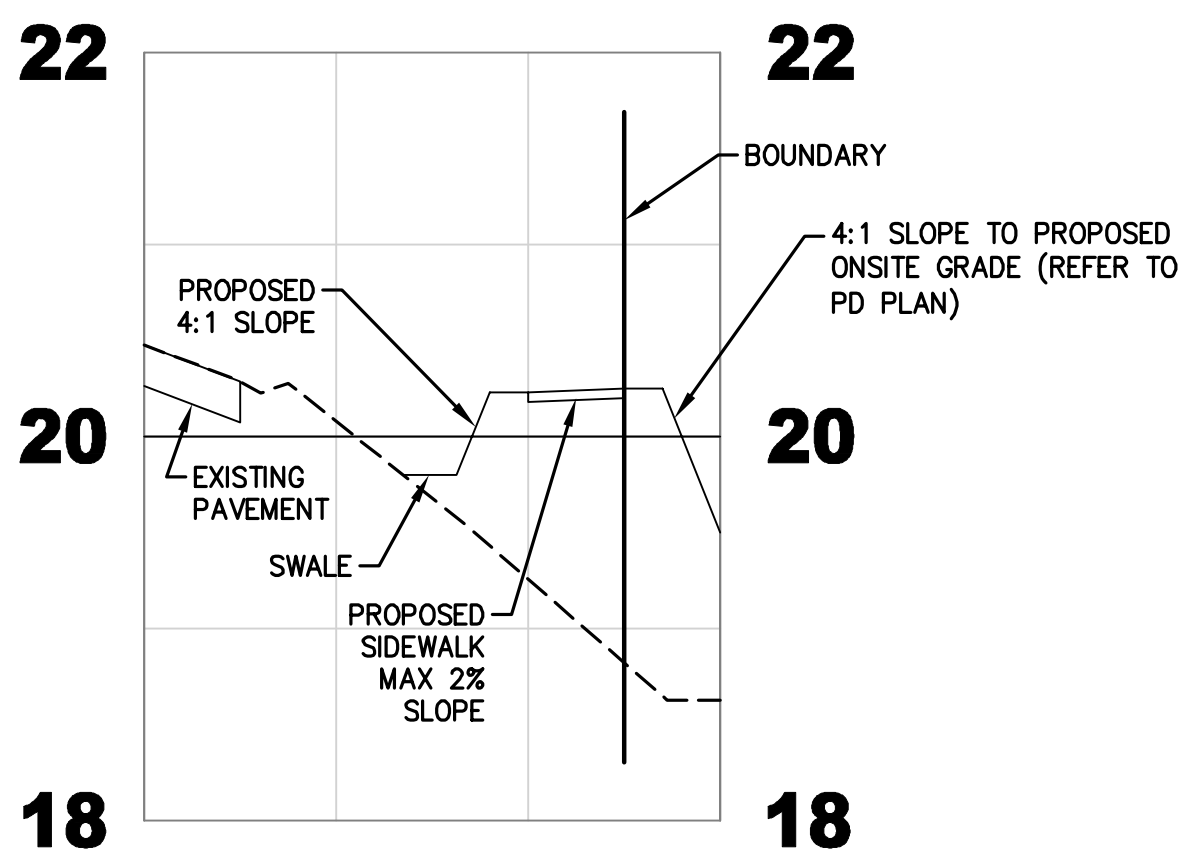


- NOTES:**
1. SIDE SLOPES SHALL NOT BE STEEPER THAN 4:1 TO DEPTH SHOWN ABOVE (PER SJRWMD REQUIREMENTS). CONTRACTOR SHALL VERIFY SLOPES ON RECORD DRAWINGS AT SPOTS SHOWN ABOVE AND AT TURN POINTS AND AT 100' MAXIMUM INTERVALS.
 2. CONTRACTOR SHALL FILL EMBANKMENTS (BERMS) THAT ARE ABOVE EXISTING GRADE IN LIFTS NOT EXCEEDING 8" THICKNESS. SURFACE OF FILL SHALL BE SCARIFIED BETWEEN SUCCESSIVE LIFTS TO PROVIDE BOND AND PRECLUDE SEEPAGE PATHS OR SLICK INTERFACES. FILL SOILS SHALL CONSIST OF CLAYEY FINE SANDS (SC) WITH A MIN. 15% OF FINES PASSING THE NO. 200 SIEVE. EMBANKMENT (INCLUDING THE SURFICIAL SOILS WITHIN THE UPPER 2 FEET BELOW THE STRIPPED SURFACE OF THE BERM) SHALL BE COMPACTED TO 98% OF MODIFIED PROCTOR MAX. DRY DENSITY WITH 2% OF OPTIMUM MOISTURE CONTENT. CONTRACTOR SHALL PROVIDE DENSITY TESTS ALONG POND EMBANKMENTS AT 200' INTERVALS. THE BERM SHALL ALSO BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS FOR SLOPE STABILITY. THE MORE STRINGENT SHALL BE USED. (REFER TO URBANO ENGINEERING SERVICES REPORT OF GEOTECHNICAL EXPLORATION DATED JUNE 4, 2021, PROJECT NO 0930.2100106.000 REPORT NO. 1870496.)
 3. CONTRACTOR MAY DISPOSE OF UNSUITABLE MATERIAL IN BOTTOM OF STORM WATER MANAGEMENT FACILITY PROVIDED THAT ALL UNSUITABLE MATERIAL IS COVERED WITH A MINIMUM OF 24" OF CLEAN FILL; HOWEVER, CONTRACTOR SHALL NOT DISPOSE OF UNSUITABLE MATERIAL IN SIDE SLOPES OR BERMS, FINAL DEPTH SHALL BE AS SHOWN ON PERMITTED CONSTRUCTION PLANS.
 4. NO MOWED OR CUT VEGETATIVE MATERIAL SHALL BE DEPOSITED OR REMAIN IN THE LOW MAINTENANCE ZONE OR DEPOSITED IN THE WATER. CARE SHOULD BE TAKEN TO PREVENT THE OVER-SPRAY OF AQUATIC WEED PRODUCTS INTO THE LOW MAINTENANCE ZONE.

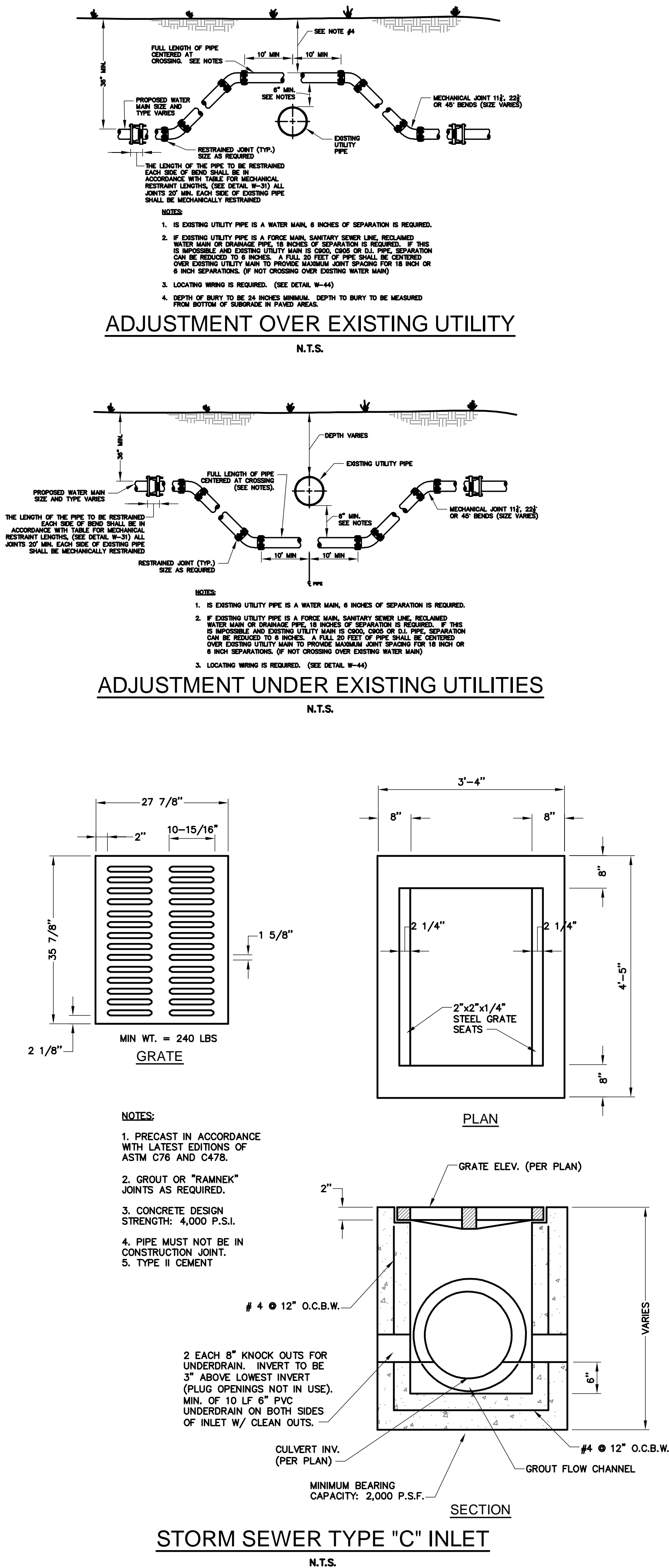
TYPICAL SECTION THRU STORM WATER MANAGEMENT FACILITY
N.T.S.



STORM SEWER TYPE "C" INLET
N.T.S.



TYPICAL CROSS SECTION
N.T.S.





1. THIS DETAIL DEPICTS A TYPICAL DESIGN FOR "WET" DETENTION SYSTEMS. OTHER DESIGN CONFIGURATIONS MAY BE POSSIBLE. THIS SYSTEM IS DESIGNED FOR USE WHERE SOIL AND GROUND WATER TABLE CONDITIONS PROHIBIT USE OF "DRY" RETENTION OR DETENTION SYSTEMS.
2. THIS DETAIL IS FOR CLARIFICATION PURPOSES ONLY. ACTUAL DESIGN AND CONSTRUCTION DETAILS ARE THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL.
3. BUFFER WIDTH SHALL BE BASED ON THE FOLLOWING:

<u>POND AREA</u>	<u>BUFFER WIDTH</u>
LESS THAN 0.25 AC	5 FEET
.25 ACRE TO 1 AC	10 FEET
GREATER THAN 1 AC	15 FEET

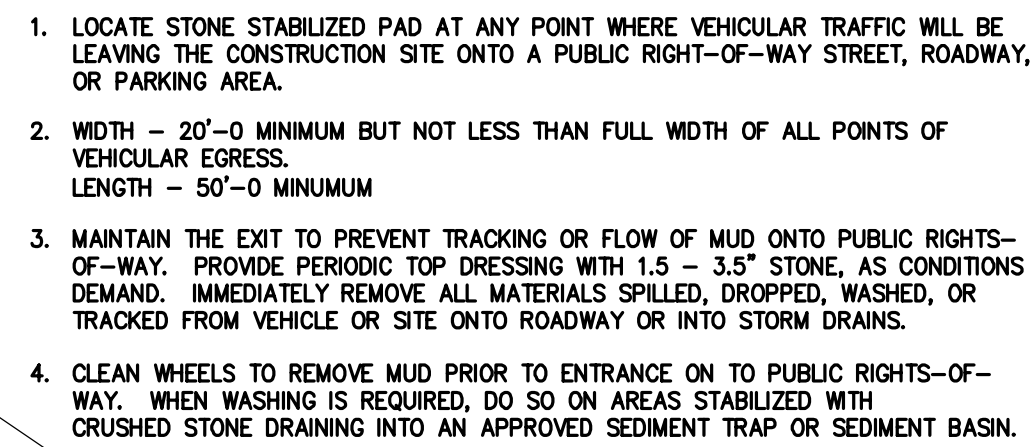
BUFFER WIDTH SHALL BE INCREASED TO 75 FEET FOR CASES WHERE SEPTIC SYSTEMS ARE PRESENT ON ADJACENT PROPERTIES UNLESS OTHERWISE APPROVED BY THE HEALTH DEPARTMENT.

ROADWAY AND DRAINAGE STANDARDS
NASSAU COUNTY PUBLIC WORKS
ENGINEERING SERVICES DEPARTMENT

REVISION DATES	

WET DETENTION POND TYPICAL DETAIL

DETAIL NO. 19
DWG:
ADOPTED:



FDOT INDEX REFERENCES

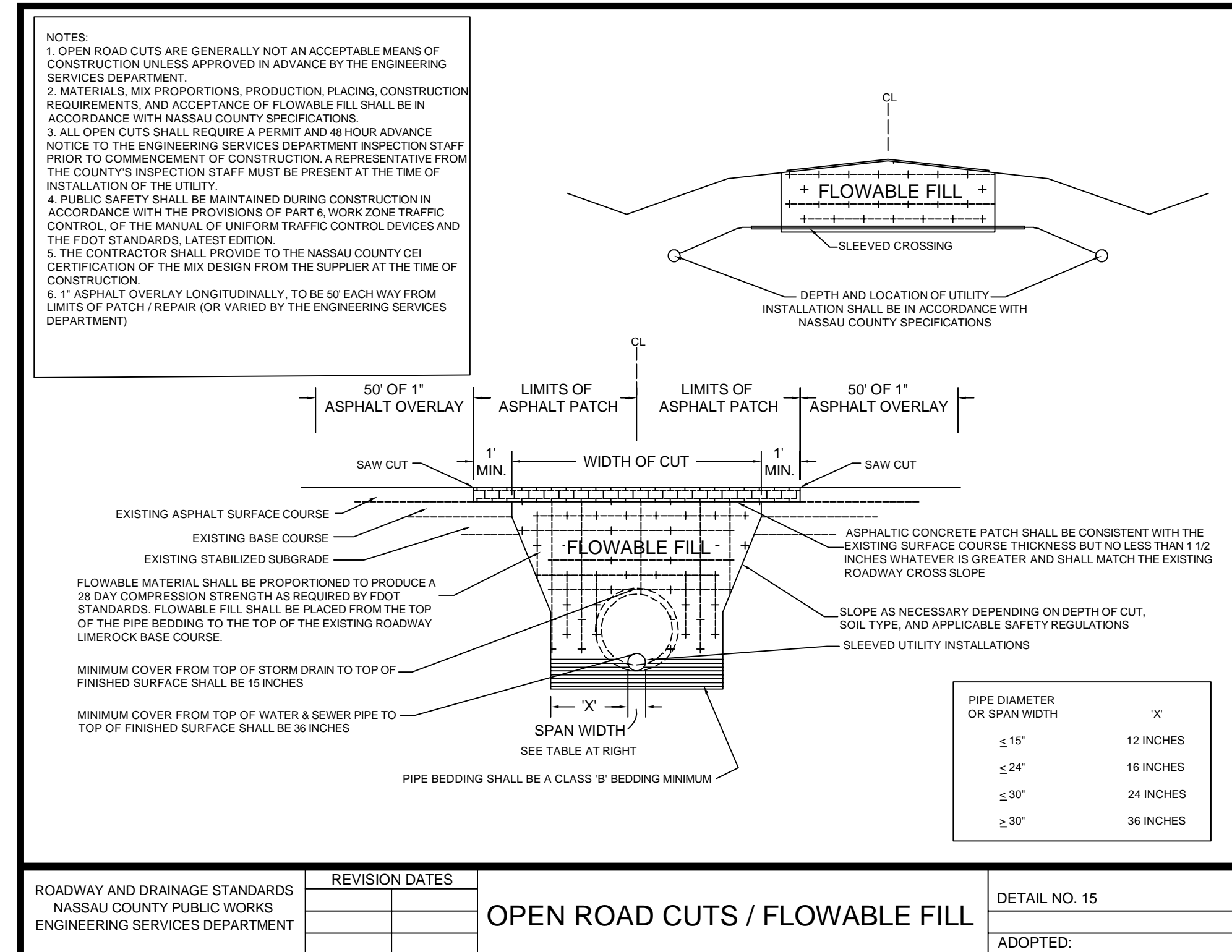
INDEX No.	DESCRIPTION
102	BALED HAY & SILT FENCE
103	TURBIDITY BARRIERS
280	FILTER JACKET
603	M.O.T.

****ALL INDEXES CAN BE FOUND AT**
<http://www11.myflorida.com/rddesign/Design%20Standards/designstds.htm>

NOTES: COIR BALES ARE NOT ALLOWED IN NASSAU COUNTY.

TEMPORARY CONSTRUCTION EXIT DETAIL

N.T.S.



PAVING AND DRAINAGE DETAILS

WILDLIGHT SOUTH
STORAGE
NASSAU COUNTY
PREPARED FOR
SS STORAGE, LLC

AUTUMN HUBSCH
P.E. NUMBER: 72939
Reg. Engineer

Project No.: 21-01-0034	
Designed: AMH	Drawn: DCG
Checked: JEW	O.C.: RCW
Date: JANUARY 2022	
Scale: N/A	

Sheet 9D

1. Engineering Plans approval does not constitute permission to violate any adopted Federal, State, or Local law, code, or ordinance.
2. All work within the public streets and right-of-ways shall conform to Nassau County Land Development Codes (LDC), FDOT Standard Indices, Florida Greenbook, Nassau County Roadway and Drainage Standards, and Nassau County Standard Details as necessary. For any discrepancy between standards, the most stringent shall prevail.
3. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 6.2.4, site shall be constructed per approved construction drawings. Any substantial deviation shall be concurrently reviewed by Engineer of Record and Nassau County Development Review Committee prior to field changes.
4. A pre-construction meeting with Nassau County Engineering Services Construction Inspector is required. Attendees shall be Nassau County, Engineer of Record, Contractor, Testing firm, Paving firm, and utility companies per Nassau County Ordinance 99-17 Section 7.2.3. Nassau County may cancel pre-construction meeting if attendee list is inadequate. Nassau County Engineering Services can be reached at 904-530-6225.
5. The contractor shall schedule and coordinate all work with the appropriate Nassau County Construction Inspector assigned to the project per Nassau County Ordinance 99-17 Section 7.2.
6. All work shall be performed in a safe manner. All safety rules and guidelines of O.S.H.A. shall be followed. The contractor shall be wholly responsible for any injuries to his employees and any damage to private property or persons during the course of this project.
7. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 11.8.1, any disturbed areas within Nassau County Right-of-Way shall be sodded.
8. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 7.4.1, at the time of final inspection, grassing shall be a minimum of seventy percent coverage and fully established and/or sodding to be one hundred percent coverage and stabilized.
9. Engineer of Record approved shop drawings shall be provided to Nassau County Construction Inspector a minimum of one week before beginning structure installation.
10. Parking at mail kiosks is required per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 8.4. Mail kiosk locations are subject to USPS Postmaster approval.

11. The developer's contractor is the single responsible party for the proper implementation of an Erosion Protection Sediment Control (EPSC) within each lot or construction site. This includes the responsibility for the actions/inactions of employees, subcontractors, and/or suppliers.
12. Sidewalks to be provided and built in accordance Florida Building Code. All proposed sidewalks shall meet ADA requirements.
13. The Contractor shall comply with current Florida accessibility standards for all work on this project.
14. Per Ordinance 99-17 Section 8.5.1, minimum cover for water lines and force mains under pavement shall 42" and 36" in green areas.
15. All water, sewer, and storm water construction within Nassau County ROW shall be accomplished by an underground utility contractor licensed under the provisions of Chapter 409 of the Florida Statutes.
16. No work shall be permitted between the hours of 7:00 PM - 7:00AM without prior approval from Nassau County Engineering Services.
17. All trees required to be protected shall be flagged for protection prior to clearing.
18. All grading and placement of compacted fill shall be in accordance with the latest Nassau County Specifications.
19. Any damages (sidewalk, curb, asphalt, ditch grading, et cetera) within Public Right-of-Way shall be repaired or replaced in accordance with Nassau County Specifications. Proposed repair method shall be approved by Nassau County Engineering Services.
20. Any asphalt millings from Nassau County ROW shall be delivered to the Road Department Laydown yard located on Gene Lasserre Boulevard or Pea Farm Road. Please contact the Road Department at (904) 530-6175.
21. Per Nassau County Ordinance 99-17 Section 7.4.2 and 7.4.4, as-built drawings shall be submitted to Nassau County before a final inspection can be scheduled. As-builts submittals will be in accordance with Nassau County as-built requirement checklist. As-built drawings shall be certified by required licensed surveyor and approved by Engineer of Record.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES		DEVELOPMENT REVIEW GENERAL NOTES	NOTE SHEET: 1
				DWG:
				ISSUED: 12/09/2020

[illegible]

1. All stormwater drainage facilities within Public Right-of-Way and paved areas, including Nassau County Right-of-Way, turn lanes, residential roadways, drive aisles for multi-family developments, and major drive aisles for commercial developments shall be laser profiled per FDOT Section 430.
2. A builder cannot modify the County's storm water management system including the pipes, inlets, area drains, ditches and related elements typically within the street or within a drainage easement without the prior written approval of the County Engineer or designee.
3. Drainage easements and ditches should remain free of stockpiled soil, sediment, mud, construction materials/waste, et cetera at all times. Positive stormwater flow must be maintained throughout construction.
4. The contractor shall temporarily or permanently stabilize bare soil areas and soil stockpiles when the area is inactive for fourteen days or more or has reached finished grade.
5. Per Ordinance 99-17 Section 11.11.5.4, all gravity flow pipe installations shall have a soil tight joint performance unless specific site factors warrant watertight joint performance.
6. Per Ordinance 99-17 Section 10.6.5.1, immediately install additional Erosion Protection Sediment Control measures if sediment is leaving your site. Failure to contain sediment to your site may result in delayed inspections, notices of violation, citations, fines, penalties, and/or stop work orders.
7. Per 99-17 Section 10.1.2.a-e, stormwater management for a project shall not have adverse effects on adjacent properties, downstream structures, or rights of other landowners.

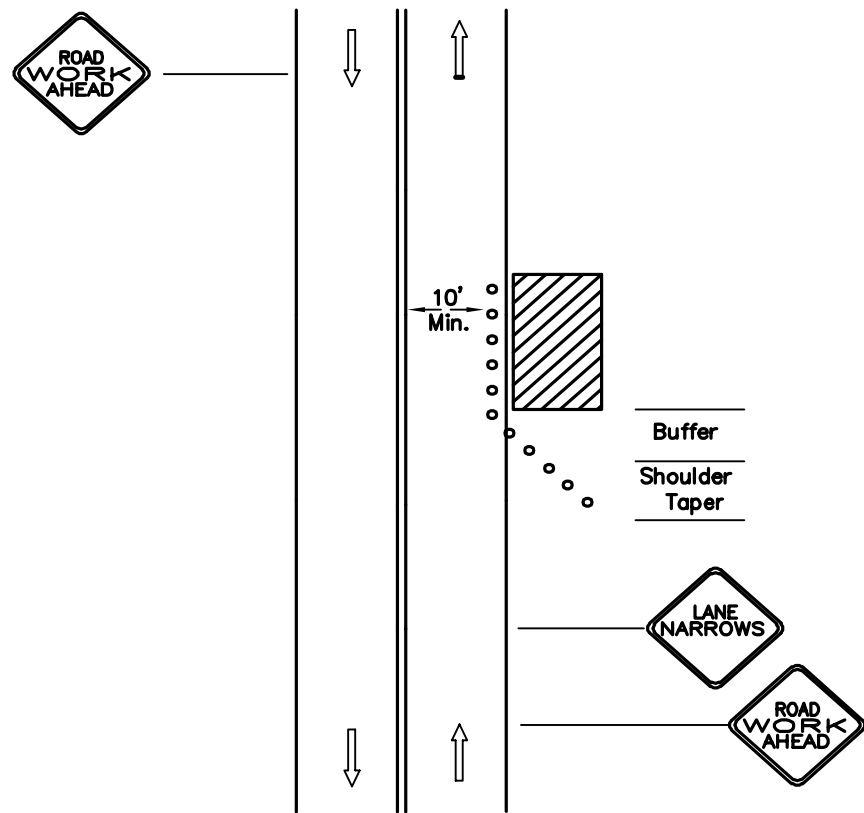
1. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 12.2 and 12.4, a construction bond and 26-month maintenance bond will be required for all work within Nassau County Right-of-Way.
2. A pre-pave meeting is required prior to any paving operations within Nassau County ROW, residential subdivisions, or multi-family developments.
3. Approved mix designs shall be provided to Nassau County Construction Inspector 48 hours prior to pre-pave meeting or placement of concrete.

4. Contractor is required to have a Certified QC Asphalt Level II Technician during any asphalt operations within Nassau County ROW, residential subdivision, or multi-family developments.
5. All bases shall be primed in accordance with Ordinance 99-17 Section 11.5.2.3, Nassau County Standard Details, and FDOT Standard Specifications.
6. Signage and pavement markings shall be in compliance with Nassau County Standards, Manual on Uniform Traffic Control Devices (MUTCD), and FDOT Standard Plans.
7. Maintenance of Traffic (MOT) shall be in compliance with FDOT Standard Index 600 Series.
8. All work, materials, and testing performed within Nassau County right-of-way and single-family/multi-family developments shall be in accordance with the current revision of Nassau County's Ordinance 99-17 and all current Nassau County Standard Details.
9. Per Ordinance 99-17 Section 11.9.2, all pavement markings within Nassau County ROW shall be lead free thermoplastic meeting Nassau County and FDOT Standard Specification Latest Edition.
10. Removing pavement markings within Nassau County ROW shall be:
 - a. Grinding or hydro-blasting on weathered asphalt surfaces.
 - b. Hydro-blasting only on new asphalt surfaces.
 - c. Paint Blackout is prohibited.
11. Per Ordinance 99-17 Section 8.5.5, any damage to pavement resulting from construction or pavement marking removal within Public ROW not planned as part of the project shall be milled and overlaid for entire width of roadway and length of damage plus 50' in each direction.
12. All underground utilities, or appropriate conduit sleeves, that are to be installed under pavement must be installed prior to preparation of the subgrade for pavement.
13. Single Vertical Joints in roadway construction shall be avoided in Nassau County Right-of-Way using Nassau County Standard Detail #26.
14. All drainage structures shall have traffic bearing grates that meet or exceed the rating for the facilities expected traffic.
15. All concrete shall be a minimum of 3000 psi within Public Right-of-Way.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES		STORMWATER DRAINAGE & PAVING NOTES	NOTE SHEET: 2
				DWG:
				ISSUED: 12/09/2020

Project No.: 21-01-0034		<h1 style="margin: 0;">PAVING AND DRAINAGE DETAILS</h1>		<h1 style="margin: 0;">WILDLIGHT SOUTH STORAGE NASSAU COUNTY PREPARED FOR SS STORAGE, LLC</h1>			
Designed: AMH		Drawn: DCG		Checked: JEW		O.C.: RCW	
Date: JANUARY 2022		Scale: N/A		AUTUMN HUBSCH P.E. NUMBER: 72939 Reg. Engineer		Planning · Engineering · Landscape Architecture 10060 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246 (904) 265-3030 FAX: (904) 265-3031 www.cweng.com Florida Registration 3650 L.A. Number: LC26000311	
Sheet 9F		No. Date		Revision		By	
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Shoulder Work With Minor Encroachment
(Within 2' of the Edge of Pavement)



CASE 2 M.O.T.

TAPER LENGTH CRITERIA

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE LANE, TWO WAY TRAFFIC TAPER	100 FT. MAXIMUM
DOWNSIDE TAPER	100 FT PER LANE

*FORMULAS FOR L ARE AS FOLLOWS

FOR SPEED LIMITS OF 40 MPH OR LESS

FOR SPEED LIMITS OF 45 MPH OR GREATER

$$L = WS^2$$

60

WHERE: L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT

SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
URBAN (low speed)	100	100	100
URBAN (high speed)	350	350	350
RURAL	500	500	500
Expressway/Freeway	1,000	1,500	2,640

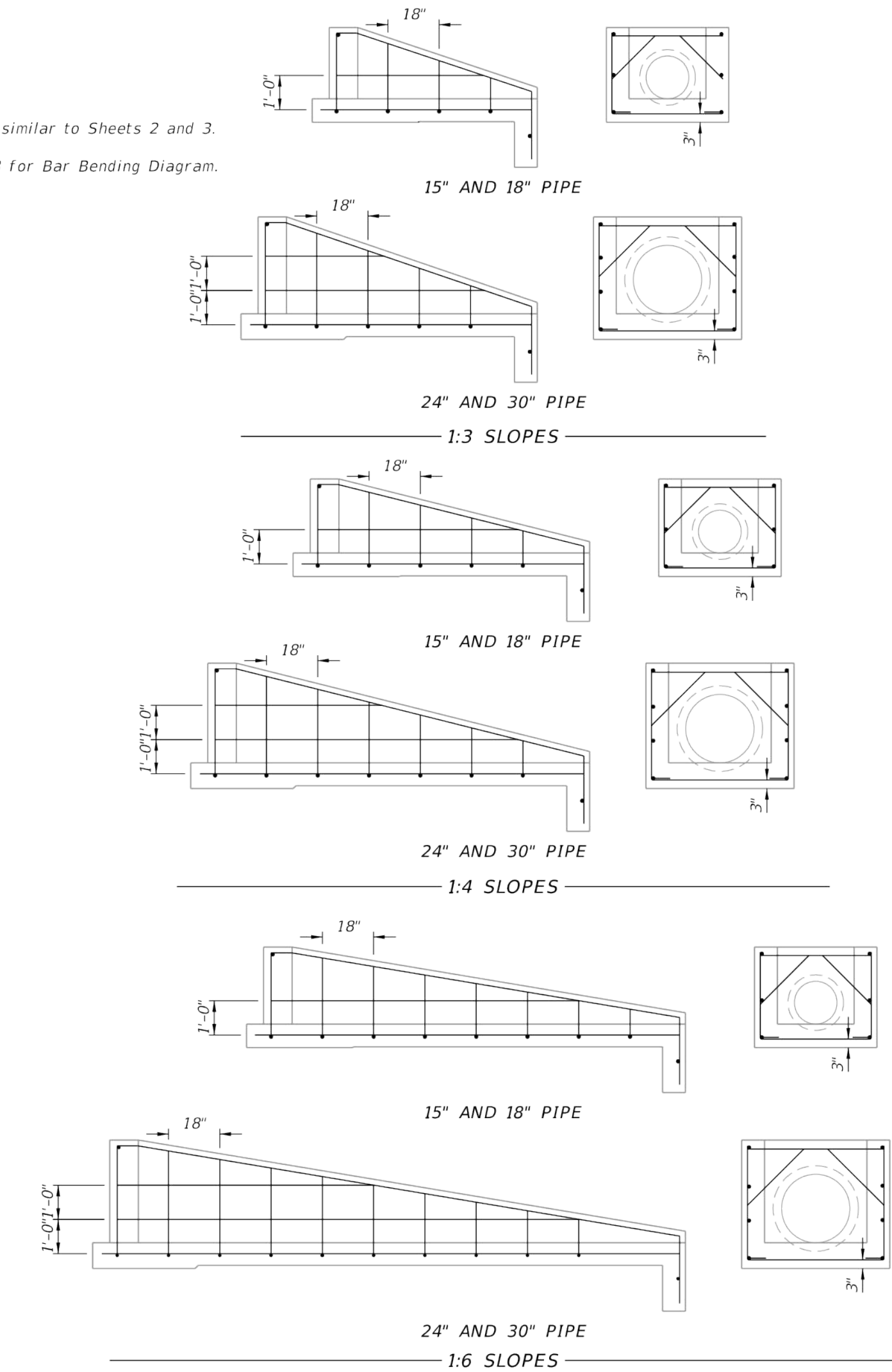
* SPEED CATEGORY TO BE DETERMINED BY HIGHWAY AGENCY
** DISTANCES ARE SHOWN IN FEET. THE COLUMN HEADING A, B, AND C ARE THE DIMENSIONS SHOWN IN FIGURES 84-1 THROUGH 84-4 OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE THIRD SIGN IS THE FIRST ONE IN THE THREE-SIGN SERIES ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL ZONE).
NOTE: LONGITUDINAL DIMENSIONS ARE TO BE ADJUSTED TO FIT FIELD CONDITIONS. SEE FDOT INDEX NO. 600

LEGEND

○	Channelizing Device
□	Flagger Symbol
X	Portable Sign Support
→	Arrow Display
⚠	High Level Warning Device
▨	Work Area
⚠	Warning Sign

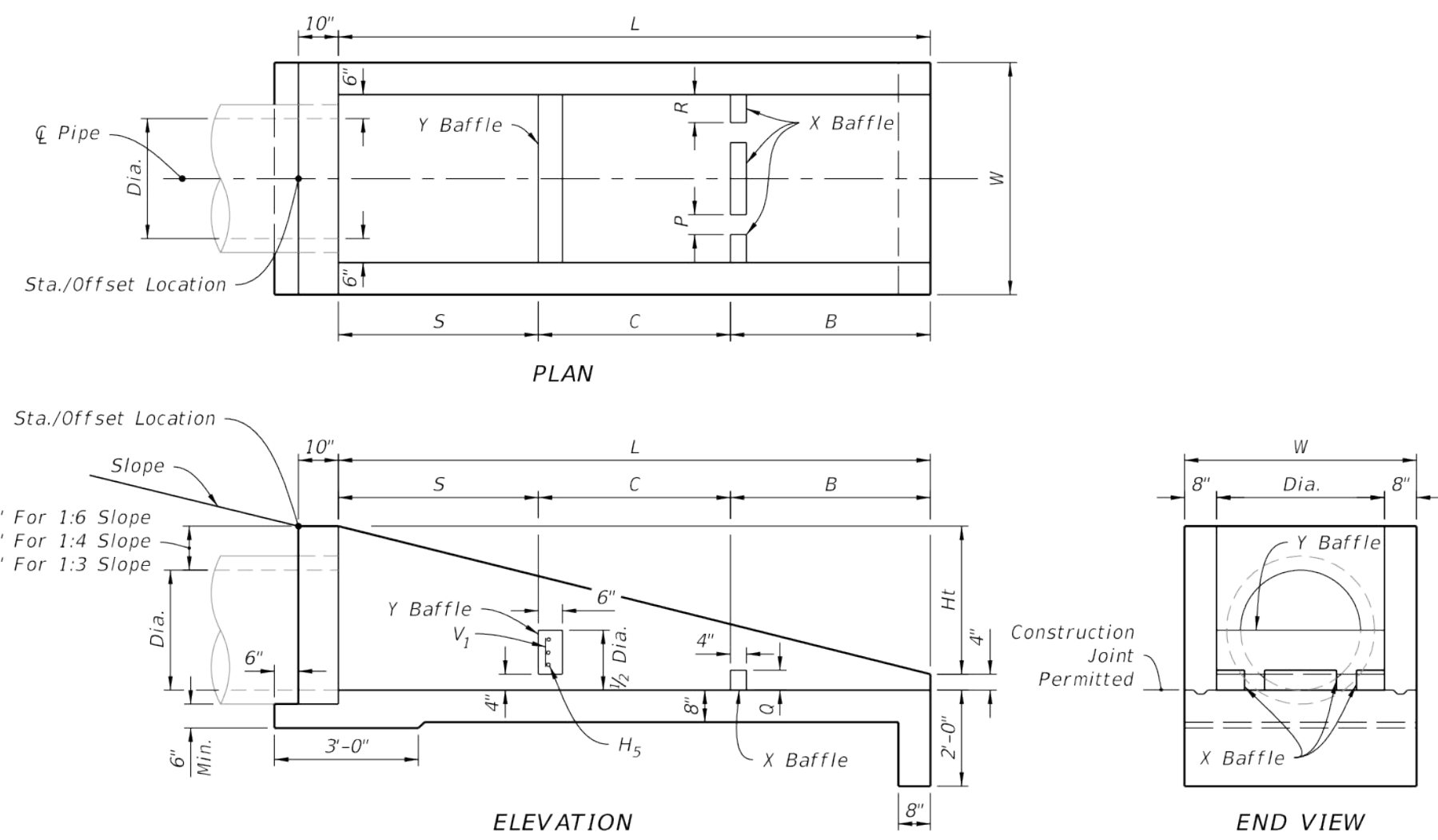
NOTE:

1. Reinforcing similar to Sheets 2 and 3.
2. See Sheet 3 for Bar Bending Diagram.



REINFORCING DETAILS

(Side Views And Backwall Sections Shown)



DIMENSIONAL DETAILS

DIMENSIONS AND QUANTITIES FOR BAFFLES

Pipe Dia.	X Baffle			Y Baffle Reinf. Steel		Class I Concrete Cu. Yd.	Reinf. Steel lbs.
	P Width	Q Height	R Length	Bar V ₁	Bar H ₅		
15"	4"	4"	4"	2- #4	1- #4	0.10	4
18"	4"	4"	5"	3- #4	2- #4		8
24"	5"	5"	6"	4- #4	3- #4		12
30"	5"	5"	7"	4- #4	4- #4		16

DIMENSIONS AND QUANTITIES FOR ONE U-ENDWALL

Rate Of Slope	Pipe		L	Ht	W	Baffle Locations (When Required)			Class I Concrete Cu. Yd.	Reinf. Steel lbs
	Dia.	Area (Sq. Ft.)				S	B	C		
1 : 3	15"	1.23	5'-3"	1'-9"	3'-7"	1'-9"	1'-9"	1'-9"	1.19	51
	18"	1.77	6'-0"	2'-0"	3'-10"	2'-0"	2'-0"	2'-0"	1.42	56
	24"	3.14	7'-6"	2'-6"	4'-4"	2'-6"	2'-6"	2'-6"	1.94	77
	30"	4.91	9'-0"	3'-0"	4'-10"	3'-0"	3'-0"	3'-0"	2.54	96
1 : 4	15"	1.23	7'-4"	1'-10"	3'-7"	2'-6"	2'-6"	2'-4"	1.54	64
	18"	1.77	8'-4"	2'-1"	3'-10"	2'-10"	2'-10"	2'-8"	1.84	71
	24"	3.14	10'-4"	2'-7"	4'-4"	3'-6"	3'-6"	3'-4"	2.53	92
	30"	4.91	12'-4"	3'-1"	4'-10"	4'-2"	4'-2"	4'-0"	3.34	124
1 : 6	15"	1.23	11'-6"	1'-11"	3'-7"	3'-10"	3'-10"	3'-10"	2.19	89
	18"	1.77	13'-0"	2'-2"	3'-10"	4'-4"	4'-4"	4'-4"	2.63	103
	24"	3.14	16'-0"	2'-8"	4'-4"	5'-4"	5'-4"	5'-4"	3.59	143
	30"	4.91	19'-0"	3'-2"	4'-10"	6'-4"	6'-4"	6'-4"	4.81	180

ENDWALLS WITH AND WITHOUT BAFFLES FOR 1:3, 1:4, AND 1:6 SLOPES

U-TYPE CONCRETE ENDWALLS BAFFLES & GRATE OPTIONAL 15" TO 30" PIPE

INDEX

430-011

SHEET

4 of 5

PAVING AND DRAINAGE DETAILS

WILDLIGHT SOUTH
STORAGE
NASSAU COUNTY
PREPARED FOR
SS STORAGE, LLC

AUTUMN HUBSCH
P.E. NUMBER: 72959
Reg. Engineer

Project No.:

21-01-0034

Designed:

AMH

Checked:

JEW

Date:

JANUARY 2022

Scale:

N/A

Sheet

9G

Connelly & Wicker Inc.

Planning · Engineering · Landscape Architecture
10060 Skimmer Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3030 FAX: (904) 265-3031 www.cweng.com
Florida Registry 3650 L.A. Number: LC26000311

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HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY												
CONFLICTING UTILITY	POTABLE WATER			WASTEWATER GRAVITY AND FORCE MAIN			RECLAIMED WATER			VACUUM SEWERS		
	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (BUILDINGS, SIGNS, POLES, ETC.)	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

- NOTES:
- THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
 - THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
 - DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
 - NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
 - WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
 - REFER TO POTABLE WATER PIPING- SECTION 350, III.4.11.
 - SEE SECTION 350, III.4.10 FOR MINIMUM SEPARATION REQUIREMENTS FROM PIPE TO STRUCTURES.

SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS

JANUARY 2021 PLATE W-10

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

- IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER, FIRE HYDRANT LEADS, AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
- NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
- WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.

NOTES ON UTILITY SEPARATION REQUIREMENTS

JANUARY 2021 PLATE W-11

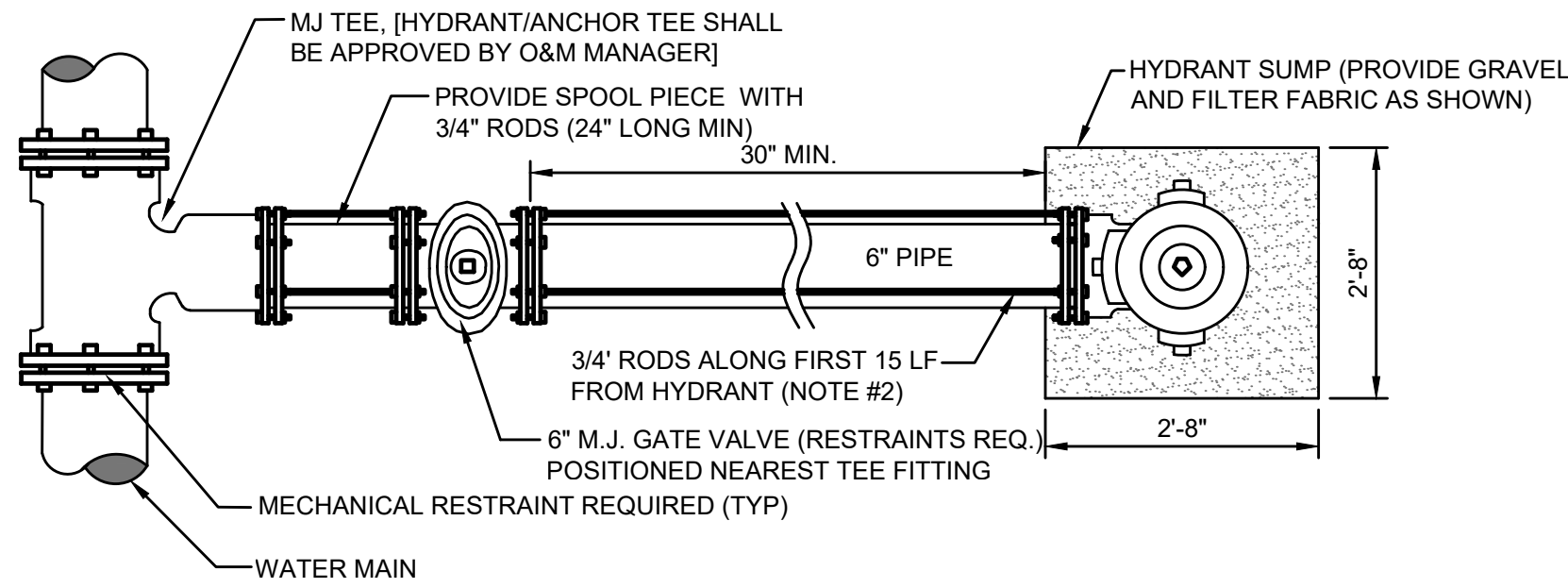
WATER METER BOX DIMENSIONS (3" - 20" METERS) NOTES:

Meter Description		Polymer Concrete Box Non-Traffic Rated (Note 1)
Type	SIZE	Width x Length x Depth (O.D.)
C-2 or T-2 Omni Style	3"	36" x 60" x 48"
	4"	36" x 60" x 48"
	6"	48" x 72" x 48"
Fire Meter	4"	48" x 72" x 48"
	6"	48" x 96" x 48"
	8"	48" x 96" x 48"
	10"	48" x 96" x 48"
* Includes 6" Thick Bottom		

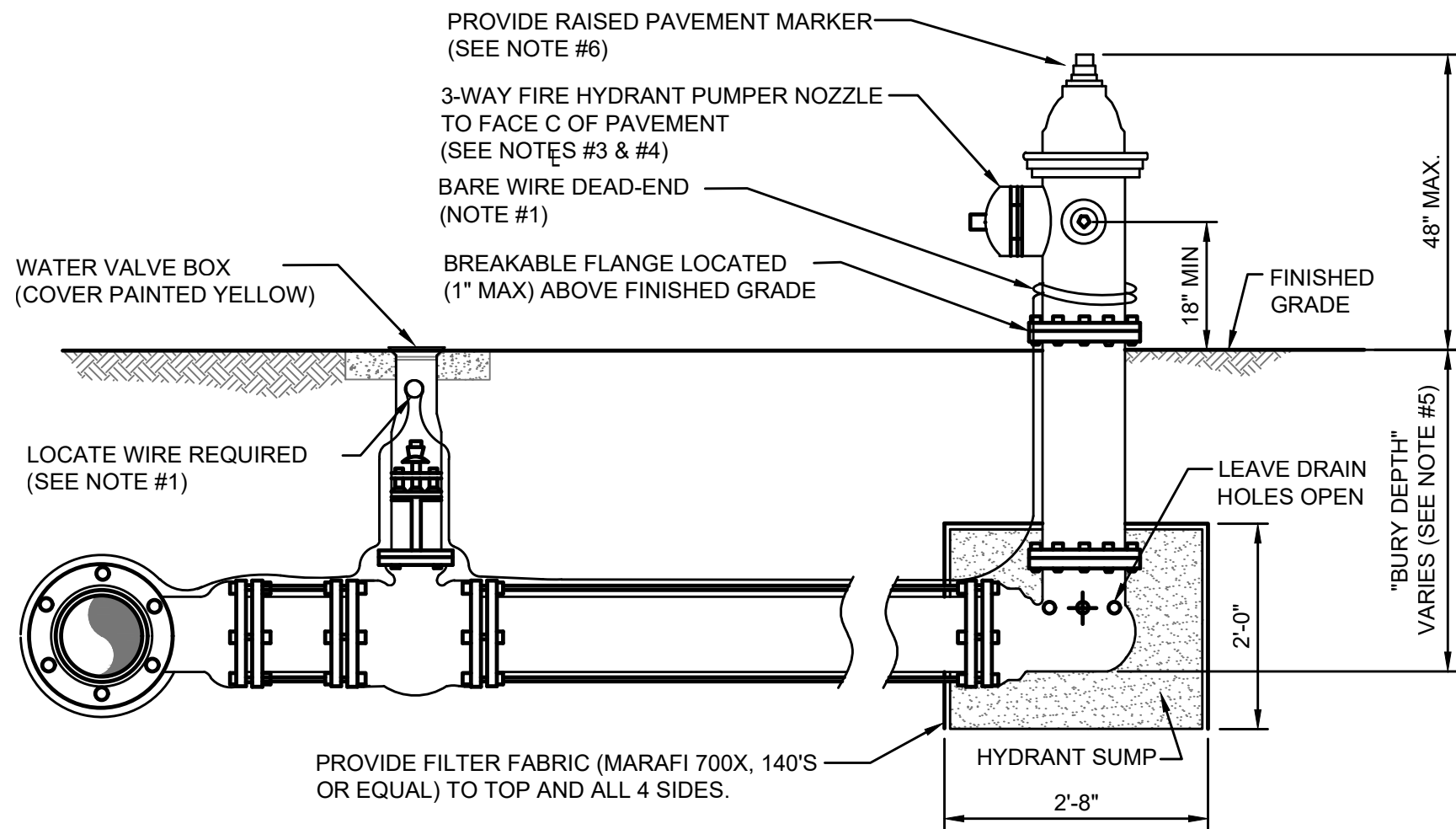
- POLYMER CONCRETE BOXES SHALL ONLY BE PROVIDED IN NON-TRAFFIC (INCLUDING NOT IN DRIVEWAYS) LOCATIONS. FRP/ POLYMER CONCRETE METER BOX & COVER (BY ARMOURCAST PRODUCTS COMPANY); BOX AND THE EXTENSION IF REQUIRED, SHALL BE MANUFACTURED USING FIBERGLASS REINFORCED MATERIALS AND POLYMER CONCRETE. THE BODY OF THE BOX WITH NO BOTTOM SHALL BE MANUFACTURED USING FIBERGLASS REINFORCED MATERIALS, COMPRISED FROM POLYESTER RESINS AND FIBERGLASS MATTING. THE TOP COLLAR AND COVER SHALL BE MANUFACTURED FROM POURED POLYMER CONCRETE AND SHALL BE CONCRETE GREY COLOR. DURING THE MANUFACTURING PROCESS AND WHILE THE POLYMER CONCRETE IS IN A SOFTENED STATE, THE BODY SHALL BE MARRIED TO THE COLLAR BY INSERTING IT INTO THE COLLAR'S FORM. THE BOX AND COVER SHALL HAVE A LOAD RATING OF A8 (ASTM C857). THE BOX SHALL CONFORM TO THESE DESIGN FUNCTIONS AND DIMENSIONAL REQUIREMENTS AND INCLUDE LIFTING STUDS. BOX EXTENSIONS SHALL BE PROVIDED FOR ALL DEEP INSTALLATIONS. THE BOX SHALL BE A 2-PIECE ASSEMBLY INCLUDING MOLDED/RAISED JEA LOGO (LOGO ON BOTH PIECES). RECESSED HOLES (APPROXIMATELY 2" DIAMETER) DESIGNED TO FIT A SCHLUMBERGER ANTENNA USED WITH A METER INTERFACE UNIT (MIU). TWO COVER HOLD-DOWN BOLTS (1/2 - 13NC S.S. PENTAHEAD BOLTS). TORSION ASSISTED COMPONENTS AND TEXTURED NON-SKID SURFACE. A 2" PVC PLUG SHALL BE PROVIDED FOR EACH 2"-HOLE WHICH CAN BE COMPRESSED (TIGHT FIT) INTO THE 2" HOLE FOR TEMPORARY CLOSURE OF THE HOLE.
- FOR WATER METERS LARGER THAN 6" OR FIRE MAINS LARGER THAN 10" SIZE, PLEASE CONTACT JEA METER SHOP FOR CONSTRUCTION REQUIREMENTS.

WATER METER BOX DIMENSIONS 3" - 20" METERS

JANUARY 2021 PLATE W-8



PLAN



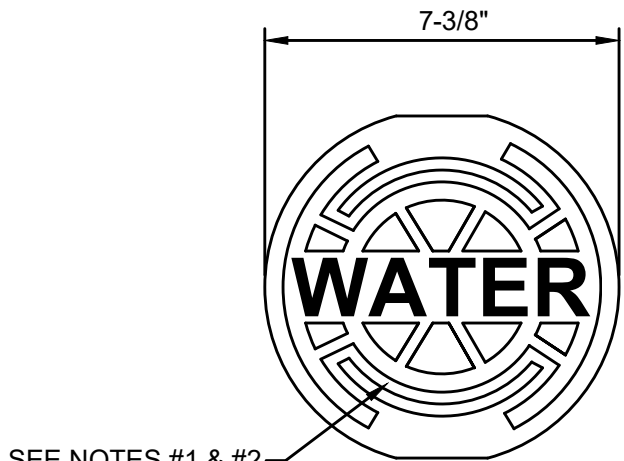
SECTION

NOTES:

- LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
- FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK AND NOT WITHIN SWALE/DITCH AREAS. THE DISTANCE RANGE FROM EDGE OF ADJACENT PAVEMENT, BACK OF CURB AND FACE OF SIDEWALK SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA AND APPLICABLE PERMITTING AGENCIES. DISTANCE SHALL BE MEASURED TO THE CLOSEST PART OF THE FIRE HYDRANT (I.E. THE PUMPER NOZZLE). THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA. FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBA 15 PR08 OR EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
- OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
- PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.
- FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY JEA, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
- BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

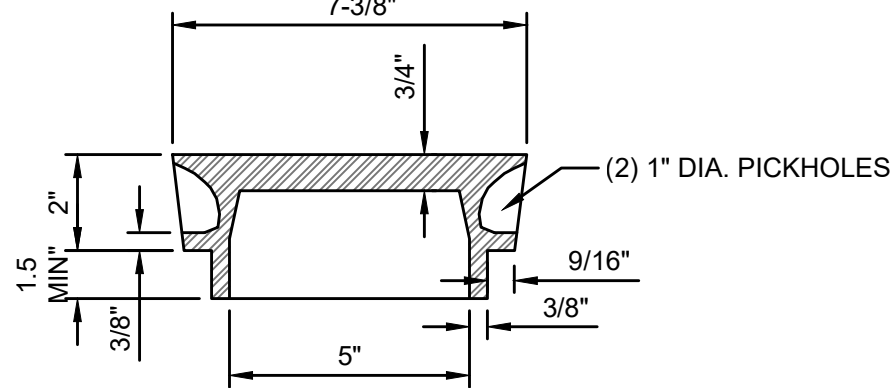
FIRE HYDRANT INSTALLATION USING MECHANICAL JOINT TEE

JANUARY 2021 PLATE W-13



SEE NOTES #1 & #2

HEAVY DUTY RATING

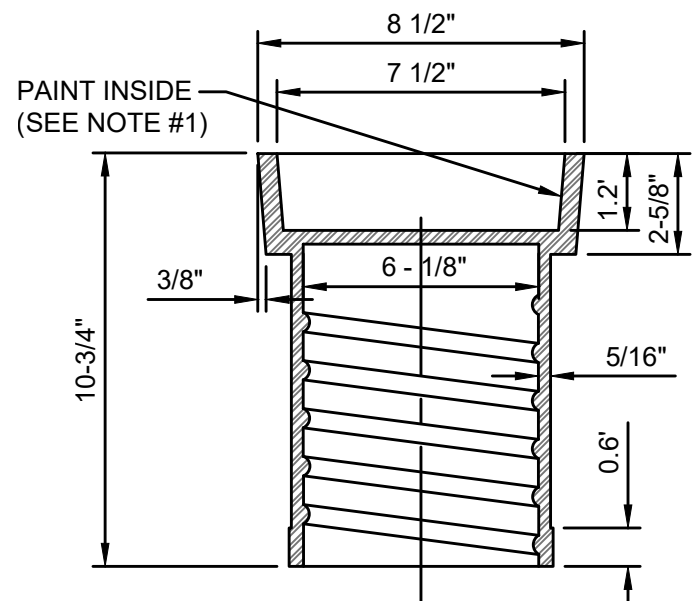


NOTES:

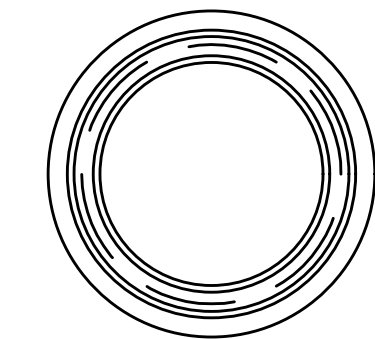
- PAINT TOP OF THE COVER WITH ENAMEL PAINT (BLUE COLOR) FOR WATER.
- FOR "REUSE" PAINT TOP PANTONE PURPLE.
- LID WEIGHT: APPROX. 12 LBS.

WATER SYSTEM VALVE BOX COVER

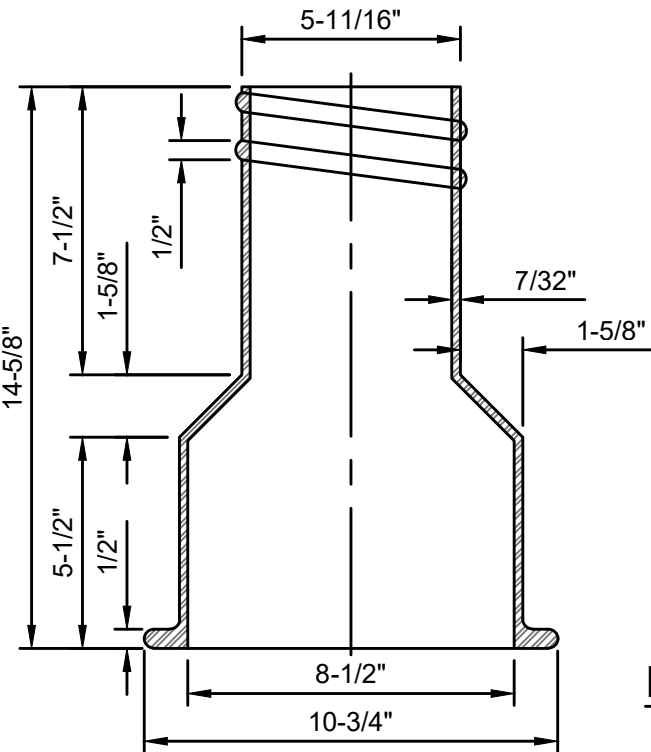
JANUARY 2021 PLATE W-16



HEAVY DUTY RATING



TOP SECTION VIEW (23 LBS. APPROX.)



BOTTOM SECTION VIEW (26 LBS. APPROX.)

NOTES:

- PAINT THE INSIDE OF THE TOP SECTION OF THE BOX WITH APPLICABLE COLOR (BLUE OR PURPLE)
- HEAVY DUTY RATING (TOTAL WEIGHT APPROX. 50 LBS.).
- REFERENCE SECTION 351, PARAGRAPH X.2.

WATER SYSTEM VALVE BOX


JANUARY 2021 PLATE W-17

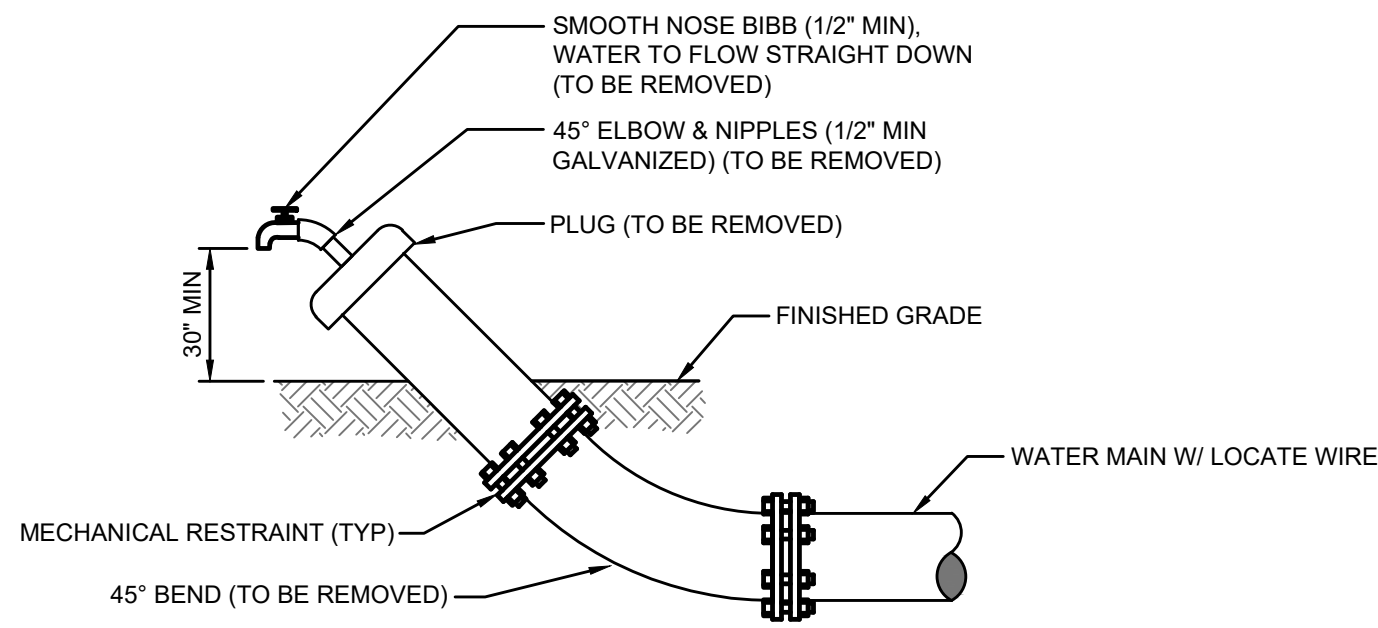
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Florida Registry 3650 L.A. Number: LC26000311

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JEABuilding Community

WATER AND SEWER DETAILS

NO. SHEETS		PROJ. NO. 21-01-0034		<div>WATER AND SEWER DETAILS</div>	<div>JEA Building Community</div>	DESIGNER: AMH		DESIGN ENGINEER	NO.	BY	DATE	REVISIONS
SHEET NO. 10A		DATE: NOVEMBER, 2021				DRAWN BY: DCG		AUTUMN HUBSCH		6.		
DRAWING NO.		SCALES NOTED				DATE:		FLORIDA REGISTRATION NO.		5.		
						CHECKED BY: JEW		72939		4.		
				DATE:				3.				
								2.				
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TEMPORARY SAMPLE TAP UTILIZING PLUG AT FLUSHING LOCATION

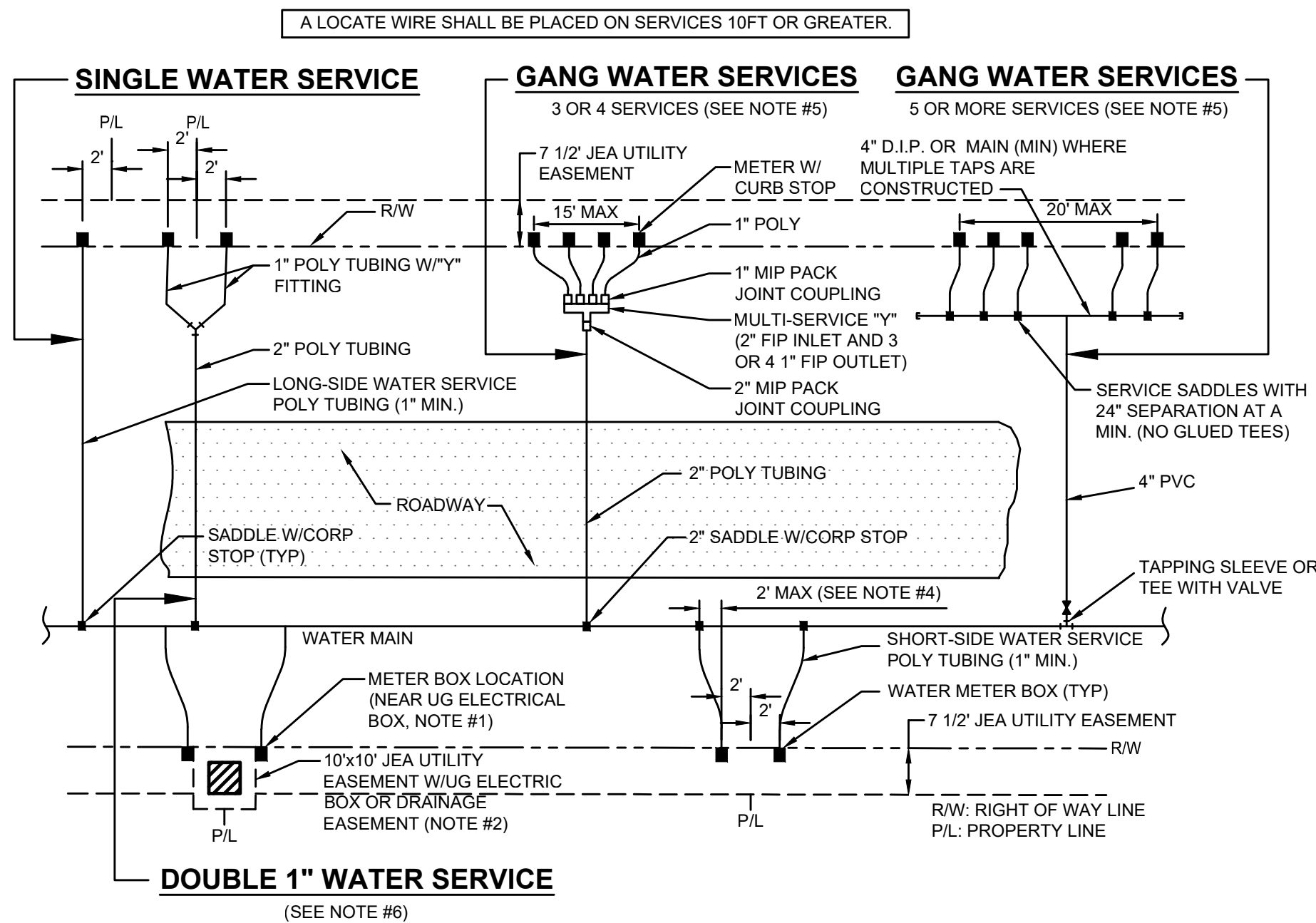
NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD B

JANUARY 2021

PLATE W-24A



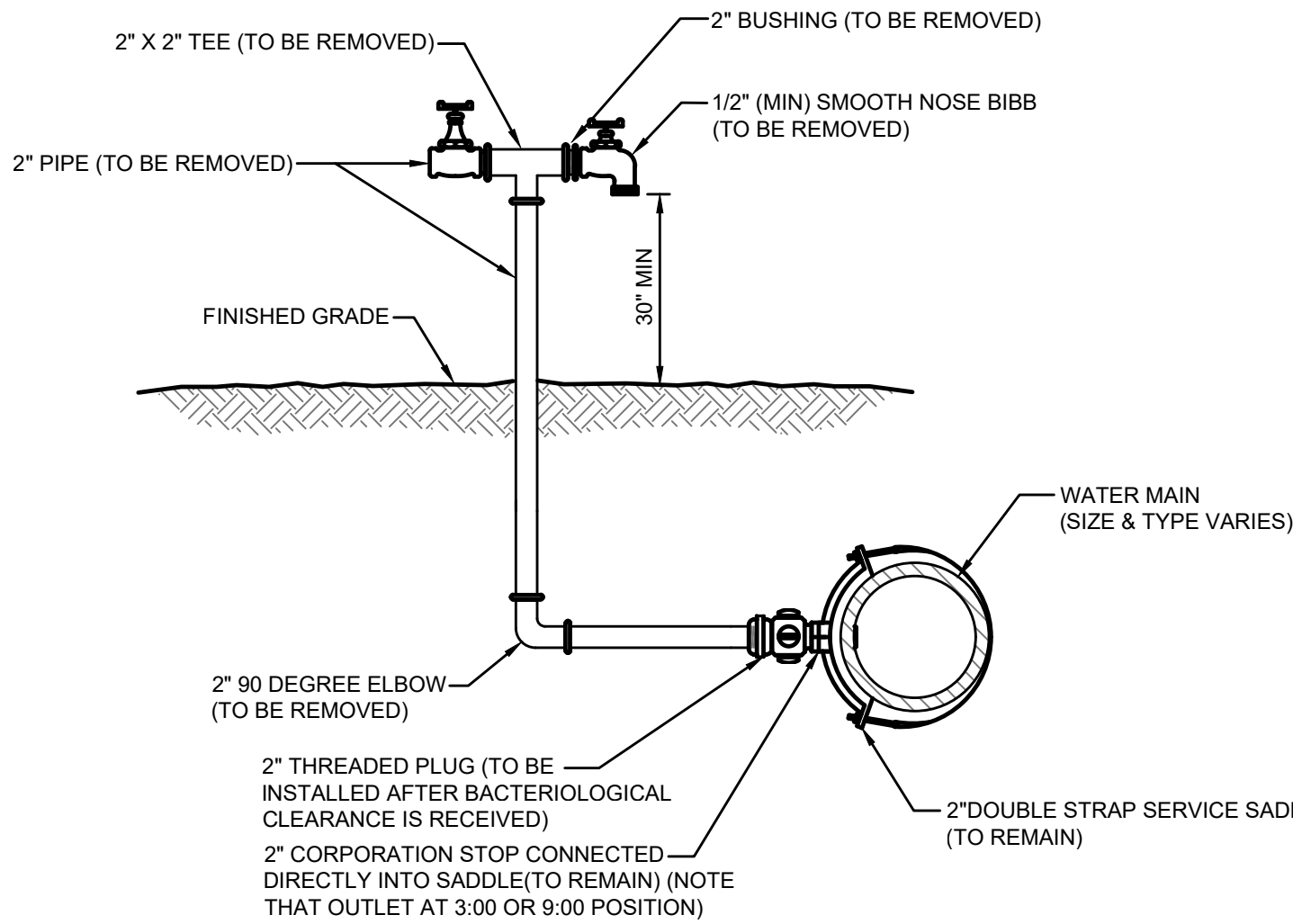
NOTES:

1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL LOCATED AT THE R/W LINE BUT INSIDE THE 7 1/2' ELECTRIC EASEMENT.
2. UNLESS SPECIFIED OTHERWISE BY THE APPLICABLE COUNTY (NASSAU, CLAY OR ST. JOHNS COUNTY), THE METER BOX SHALL BE LOCATED IN THE JEA 7 1/2' UTILITY EASEMENT, AND TWO FEET INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF TWO FEET). UNLESS APPROVED OTHERWISE BY JEA, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF THE METER BOX IS APPROVED BY JEA TO BE LOCATED IN A DRIVEWAY OR SIDEWALK, THEN THE CONSTRUCTION SHALL MEET STANDARD DETAIL NUMBERS W-344, AT A MINIMUM (SEE W-3 AND W-4 FOR THE REQUIREMENTS OF SPECIAL ORDER POLYMER BOX AND TOP). SET TOP OF BOX AT FINISHED GRADE. IF AN UNAPPROVED METER BOX IS IDENTIFIED BY JEA, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. JEA SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
3. IF DRAINAGE OR OTHER EASEMENT LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN) BETWEEN THE SERVICES SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 1" SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. IF LOCATE WIRE IS REQUIRED, THE WIRE SHALL RUN FROM THE METER BOX (W/ PIG TAIL) TO THE MAIN (DEAD END SHALL BE TAPE WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY JEA. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTILE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CORP STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN PVC CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" DIP, 4" PIPE, 4"x1" SADDLES AND 1" CORP STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE P.E. ENGINEER.
6. DOUBLE 1" WATER SERVICES IS ALLOWED FOR SHORT SIDE OR LONG SIDE SERVICES AND WHERE SHOWN ON THE DRAWINGS.
7. A 1" IRRIGATION SERVICE MAYBE TAPPED INTO THE (1" MIN) DOMESTIC WATER SERVICE LINE (WHICH SERVES THE SAME CUSTOMER) UTILIZING A 1" BRONZE "Y" FITTING. (IN AREAS WHERE NO RECLAIMED WATER IS AVAILABLE).
8. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
9. RECLAIMED WATER METER BOXES OR SERVICES SHALL BE CONSTRUCTED SIMILAR TO THE ABOVE AND SHALL BE LOCATED, AT A MIN. OF 10' FROM THE POTABLE WATER SERVICE, AND/OR BOX AND NOT ALLOWED IN CONCRETE OR ASPHALT UNLESS APPROVED OTHERWISE BY JEA.
10. SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

WATER OR RECLAIM SERVICE INSTALLATIONS
2" AND SMALLER METER

JANUARY 2021

PLATE W-1



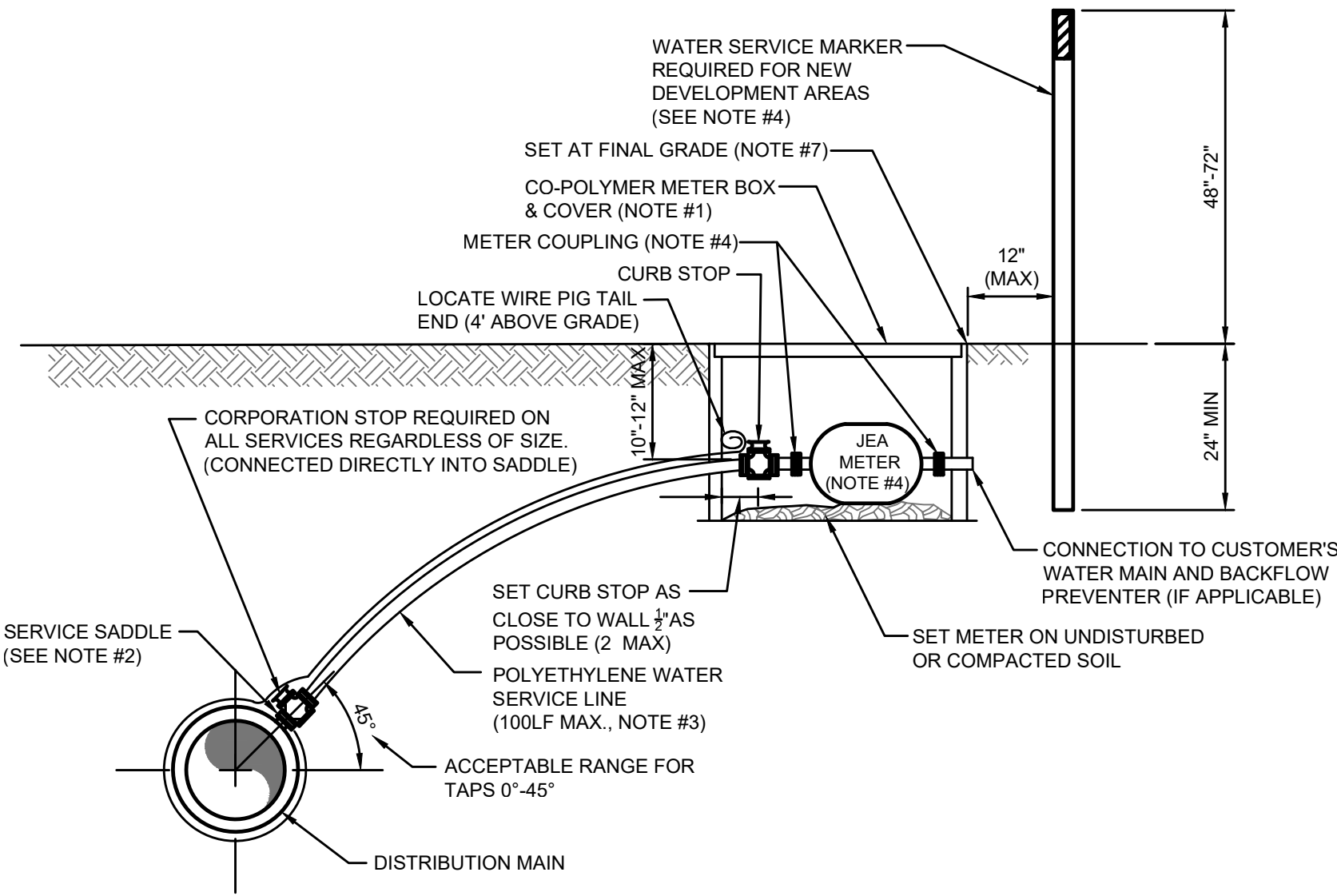
NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. ALL PIPE & FITTING SHALL BE GALVANIZED MATERIAL OR PVC (S-40).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTING (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

2" TEMPORARY SAMPLE TAP FOR STUB OUT

JANUARY 2021

PLATE W-26



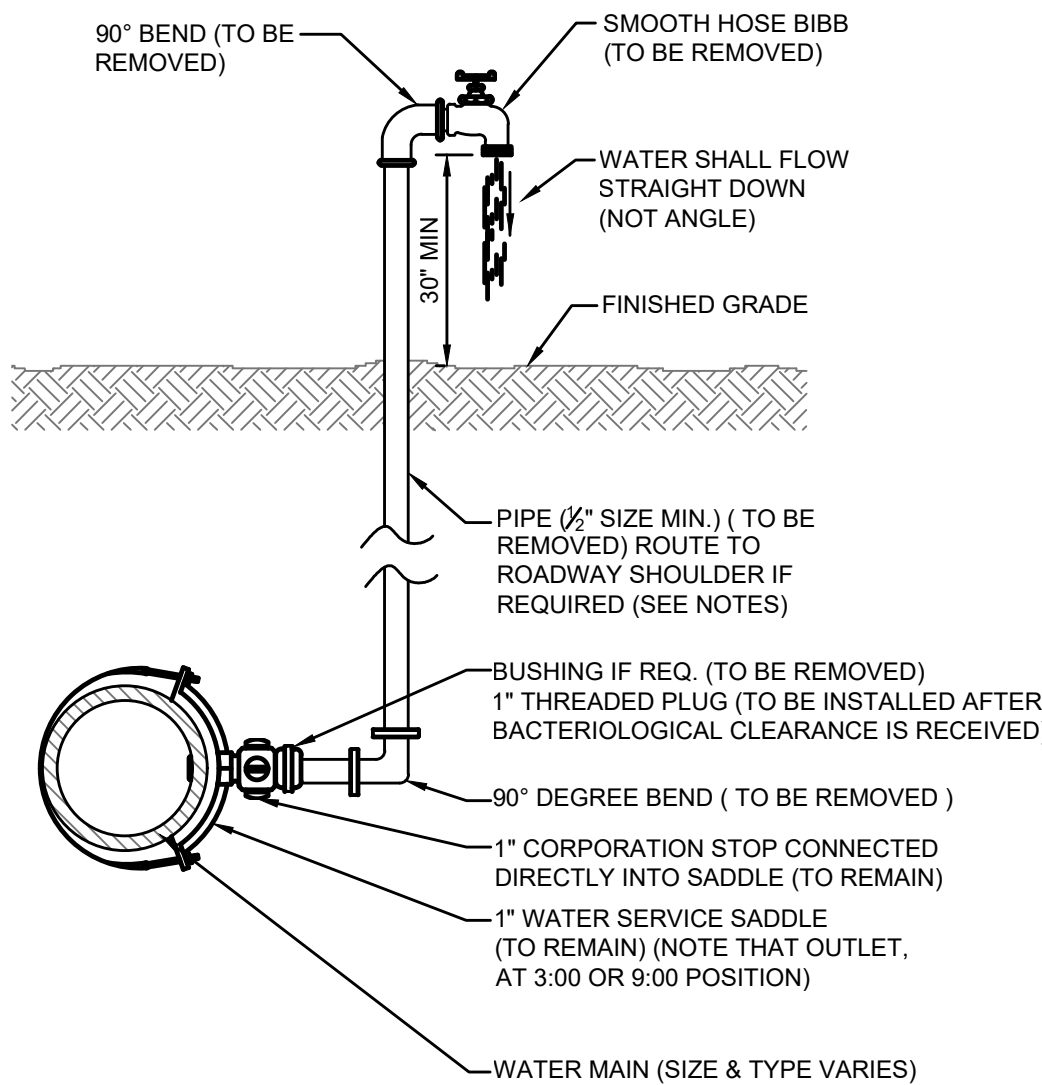
NOTES:

1. SEE PLATE W-1 FOR METER LOCATION REQUIREMENTS.
2. SINGLE BAND SADDLES SHALL BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1 INCH AND SMALLER WATER SERVICES WHICH ARE INSTALLED ON A DRY 10 INCH OR SMALLER PVC WATER MAIN.
3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY J.E.A. CONSTRUCT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (1" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS APPROVED OTHERWISE BY JEA.
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED). WATER SERVICES SERVING VACANT LOTS (SERVICE NOT IN USE), SHALL INCLUDE A "Y" CUT INTO THE CURB CLOSEST TO THE METER BOX, AND PAINTED BLUE (PAINTED PURPLE FOR RECLAIMED WATER). IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED BLUE OR PURPLE FOR RECLAIMED WATER). THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
5. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (I.E. NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).
8. LOCATE WIRING REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. SEE PLATE W-44.

WATER SERVICE DETAIL- 2" AND SMALLER METER

JANUARY 2021

PLATE W-2



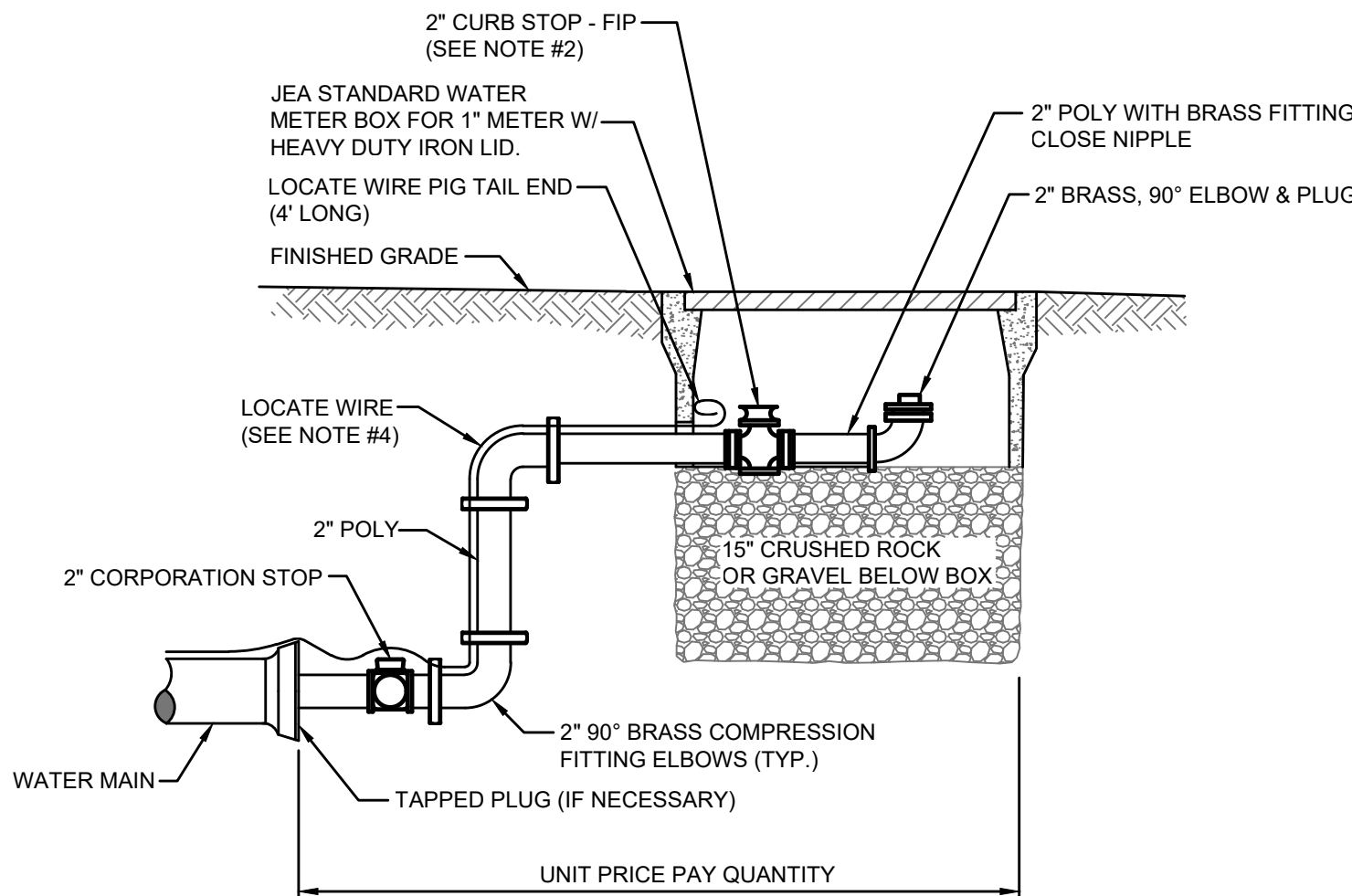
NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY JEA.
5. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS AS OUTLINED BY JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP

JANUARY 2021

PLATE W-25



NOTES:

1. PIPE SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
2. THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
3. ANY RECLAIMED WATER VALVE SHALL HAVE RECLAIMED EMBLEM.
4. LOCATE WIRE FOR 10' OR GREATER IN LENGTH.
5. CANNOT BE PLACED UNDER CONCRETE OR PAVEMENT.
6. PLACE 2 FEET PAST LAST WATER MAIN SERVICE CONNECTION.

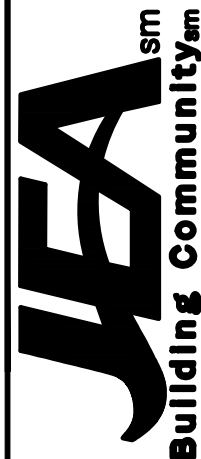
FLUSHING VALVE BELOW GRADE

JANUARY 2021


PLATE W-28

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Florida Registry 3650 L.A. Number: LC26000311

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WATER AND SEWER DETAILS

<div>WATER AND SEWER DETAILS</div> <div>JEA Building Community</div>		PROJ. NO. 21-01-0034		NO. BY DATE		DESIGN ENGINEER		NO. REVISIONS	
		DATE: NOVEMBER, 2021		DRAWN BY: DCG		AUTUMN HUBSCH			
		SCALE AS NOTED		DATE: _____		DATE: _____		FLORIDA REGISTRATION NO.	
				CHECKED BY: JEW		DATE: _____		72939	
				DATE: _____					
DRAWING NO.									

LENGTH (L) TO BE RESTRAINED							(SEE PLATE NOS. 38C & 38D FOR ADDITIONAL DETAILS)						
NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS L (FT.)	REDUCERS	TEES SEE NOTE 5				
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)			RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)		
4	21	9	5	3	17	3	47	6x4	34	4	4	F.O.	
6	30	13	6	3	23	4	66	8x6	36	4	6	10	
8	38	16	8	4	30	6	86	10x8	62	4	6	10	
10	45	19	9	5	36	7	103	10x8	35	8	8	29	
12	53	22	11	6	43	8	121	10x6	63	8	6	10	
14	61	26	13	6	50	9	140	12x10	36	10	10	13	
16	66	28	14	7	55	10	154	12x8	64	12	6	13	
18	73	30	15	8	60	11	170	16x12	66	12	12	62	
20	79	33	16	8	66	12	186	16x10	92	12	10	32	
24	79	33	16	8	77	15	185	20x18	35	16	8	LESS	
30	93	39	19	10	97	17	222	20x16	66	16	12	39	
36	106	39	21	11	107	20	257	24x18	80	16	10	5	
42	117	49	24	12	120	24	289	24x16	101	10	10	LESS	
48	144	53	26	13	133	26	321	30x24	78	24	24	124	
								30x20	121	24	20	84	
								36x30	78	36	12	LESS	
								36x24	141	30	30	159	
								42x36	75	24	24	104	
								42x30	140	20	60	5	
								48x42	75	16	10	LESS	
								48x36	139	36	36	192	
										36	30	142	
										24	83	35	
										16	20	F.O.	
										42	42	273	
										36	178	228	
										30	30	124	
										24	59	24	
										20	5	5	
										16	10	LESS	
										48	48	253	
										42	209	36	
										36	162	104	
										30	102	34	
										24	34	24	
										20	10	LESS	
										F.O.	F.O.	F.O.	

PVC PIPE RESTRAINT NOTES:

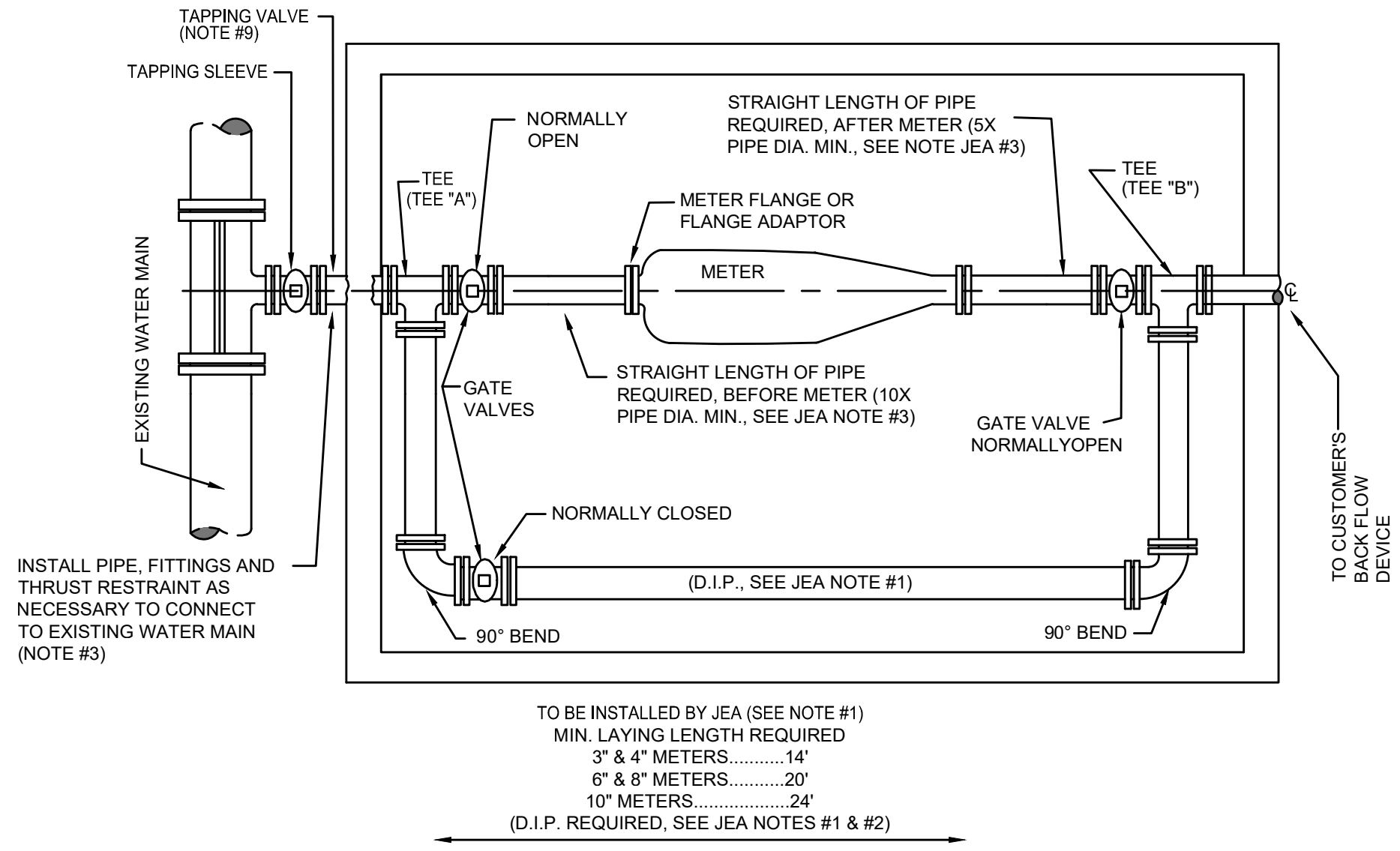
- THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
- ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
- BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
- VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, L_u IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. L_i IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
- TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
- HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
- THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERTIGHTENING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2021

PLATE W-31A

F.O. = FITTING ONLY



CONTRACTOR NOTES:

- FOR "PRE-PAVE" INSTALLATIONS, THE CONTRACTOR SHALL CONSTRUCT TAP AND WATER MAIN PIPING (PVC OR D.I.P.) BETWEEN TAPPING VALVE AND R/W PROVIDING AN UN-INSTALLED (OPEN) PIPE SECTION WITH A "MINIMUM LAYING LENGTH" AS SHOWN ABOVE FOR THE METER BOX AND BY PASS PIPING. THE FINISHED GRADE AT THE PROPOSED METER VAULT SHALL BE FLAT. CONTRACTOR SHALL PROVIDE METER BOX. JEA WILL INSTALL METER BOX AND METER ASSEMBLY (INCLUDING METER, THREE (3) GATE VALVES AND ASSOCIATED DUCTILE IRON PIPE ALL THE SAME SIZE).
- FOR "FULL-TAP" METER ASSEMBLY, JEA WILL PROVIDE AND INSTALL THE TAP, METER BOX AND ALL OF THE ABOVE PIPING WITHIN THE R/W.
- FOR BOX DETAILS SEE PLATES W-7 AND W-8.
- ALL POTABLE PIPE AND FITTINGS TO BE SAME SIZE AS METER. IF UTILIZING HDPE PIPE.
- MECHANICAL RETAINER GLAND RESTRAINTS OR MEGA LUGS SHALL BE UTILIZED TO RESTRAIN ALL JOINTS. THE USE OF THRUST BLOCKS, TIE RODS AND/OR BELL/ROD RESTRAINTS SHALL ONLY BE USED IF SPECIFICALLY APPROVE BY JEA MANAGEMENT.
- PIPE FROM TAP TO R/W LINE SHALL BE RESTRAINED.
- MAXIMUM COVER OF LARGE WATER METERS SHALL BE 36" (FROM TOP OF PIPE TO GRADE).
- LOCATING WIRING REQUIRED FROM EXISTING WATER MAIN TO METER BOX. SEE PLATE W-44.
- FOR METERS LARGER THAN 10" SIZE, PLEASE CONTACT JEA METER SHOP FOR ADDITIONAL REQUIREMENTS.
- EACH SERVICE (FIRE MAIN, POTABLE WATER, ETC.) SHALL INCLUDE A SEPARATE ISOLATION VALVE (TAPPING VALVE OR GATE VALVE, BELOW GROUND TYPE) LOCATED PRIOR TO TEE "A". ALSO, UN-METERED FIRE MAIN SERVICES SHALL INCLUDE A SEPARATE ISOLATION VALVE (TAPPING VALVE OR GATE VALVE, BELOW GROUND TYPE).
- FOR TYPICAL MANIFOLD INSTALLATION, SEE PLATE NO. W-9.
- SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

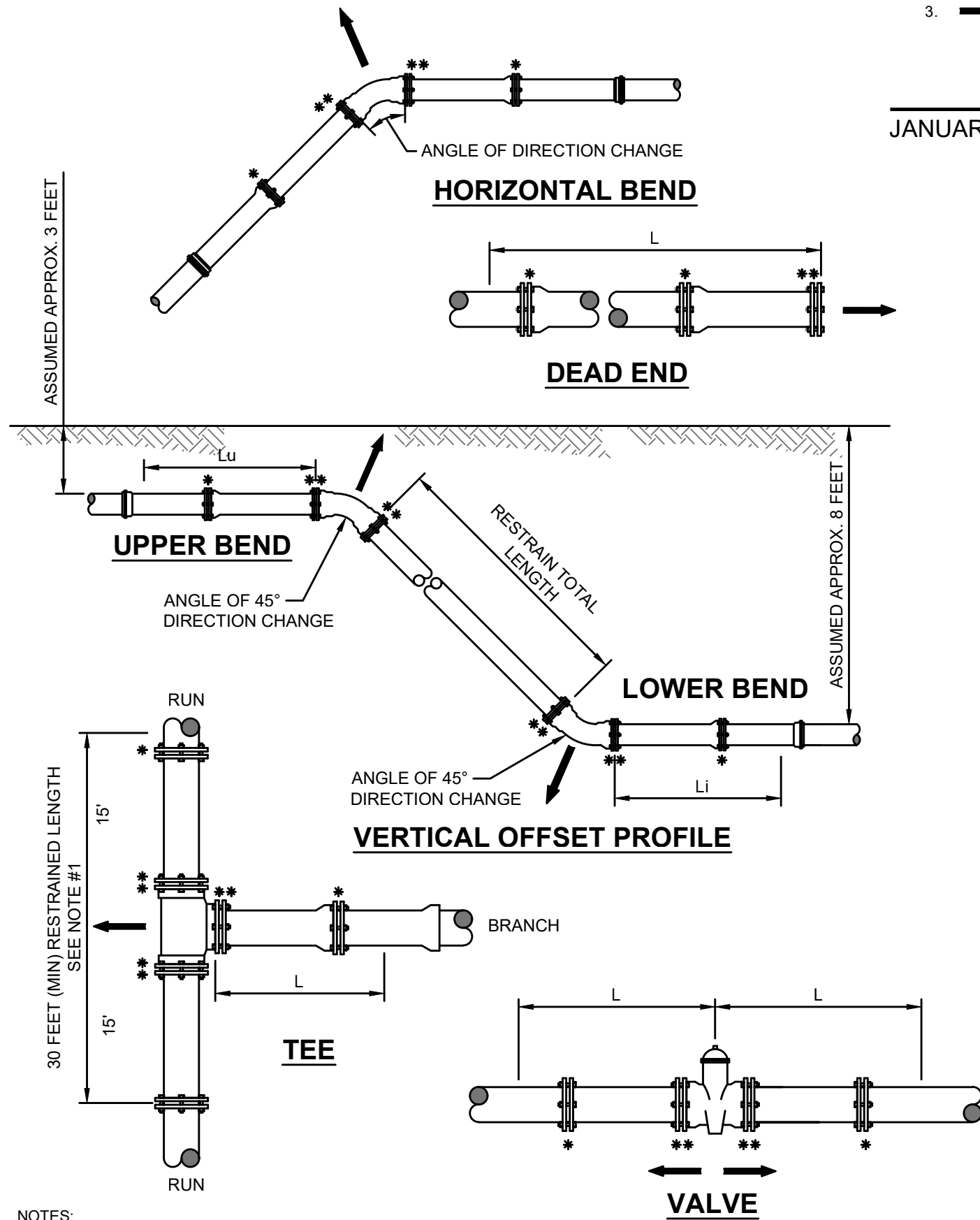
JEA NOTES:

- ALL POTABLE PIPING BETWEEN TEE FITTINGS (TEE "A" AND TEE "B") SHALL BE DR18 OR CLASS 150 D.I.P., INCLUDING BY-PASS PIPING.
- ALL POTABLE VALVES AND FITTINGS TO BE DUCTILE IRON RESTRAINED JOINT.
- MINIMUM LENGTH OF TEN (10) PIPE DIAMETERS OF STRAIGHT PIPE TO BE INSTALLED ON INLET SIDE OF METER AND FIVE (5) PIPE DIAMETERS OF STRAIGHT PIPE TO BE INSTALLED ON OUTLET SIDE OF METER.
- ALL METER INSTALLATIONS REQUIRE A TEST TEE TO BE INSTALLED BETWEEN THE METER AND VALVE ON CONSUMER SIDE OF METER.

WATER METER INSTALLATION DETAILS
3" - 20" METERS

JANUARY 2021

PLATE W-6



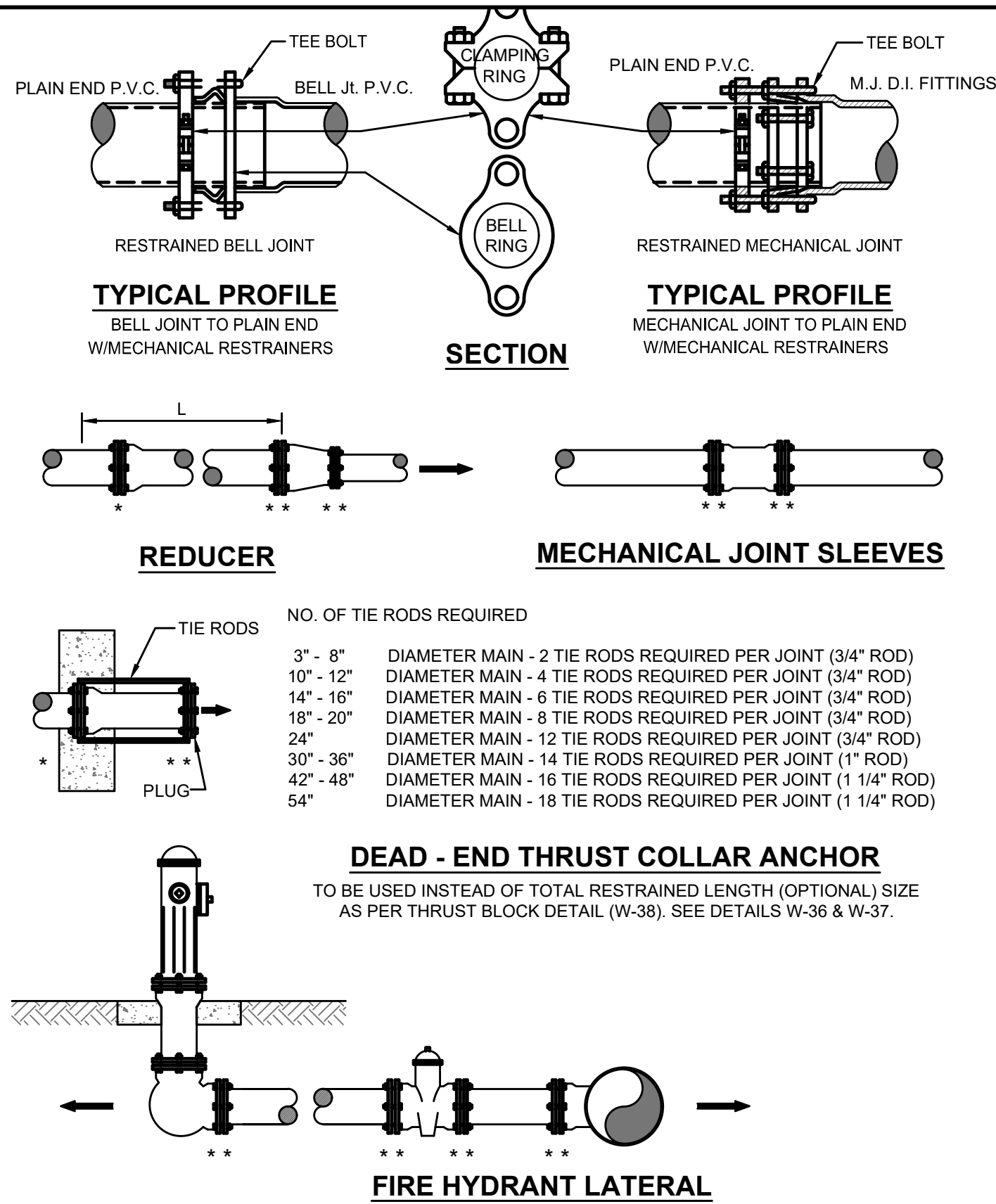
NOTES:

- TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN.).
- PAY ITEM *** DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.
- PAY ITEM **** DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

MECHANICAL RESTRAINT DETAILS - II

JANUARY 2021

PLATE W-31D



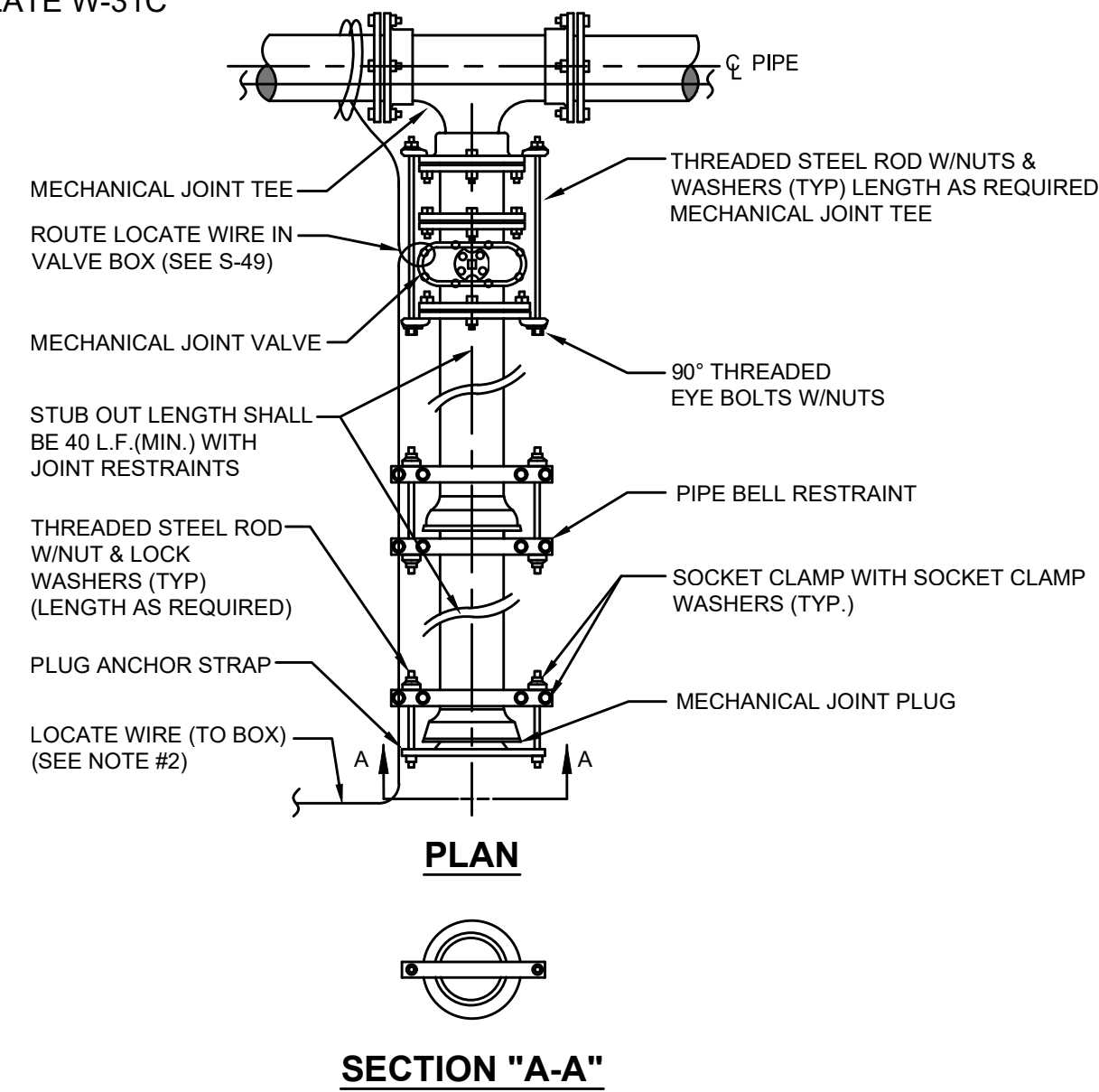
GENERAL NOTE:

- PAY ITEM *** DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.
- PAY ITEM **** DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
- INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

JANUARY 2021

PLATE W-31C



NOTES:

- IN LIEU OF BELL/ROD RESTRAINTS, MECHANICAL JOINT RESTRAINTS MAY BE USED.
- LOCATING WIRE REQUIRED, UTILIZING A LOCATE WIRE BOX INSTALLED AT PLUG LOCATION.
- NUMBER OF TIE RODS REQUIRED IS AS FOLLOWS:
3" - 8" DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)
10" - 12" DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)
14" - 16" DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)
18" - 20" DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)
24" DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD)
30" - 36" DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD)
42" - 48" DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
54" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
- THE LOCATION OF THE DEAD END PLUG SHALL NOT BE UNDER PAVEMENT, IF POSSIBLE. THE STUB OUT SHALL EXTEND BEYOND THE INTERSECTION AREAS OR ROAD CROSSING BY 10 FEET (MIN.) WHERE POSSIBLE.

PLUGGED DEAD END USING
MECHANICAL RESTRAINTS

JANUARY 2021

PLATE W-37

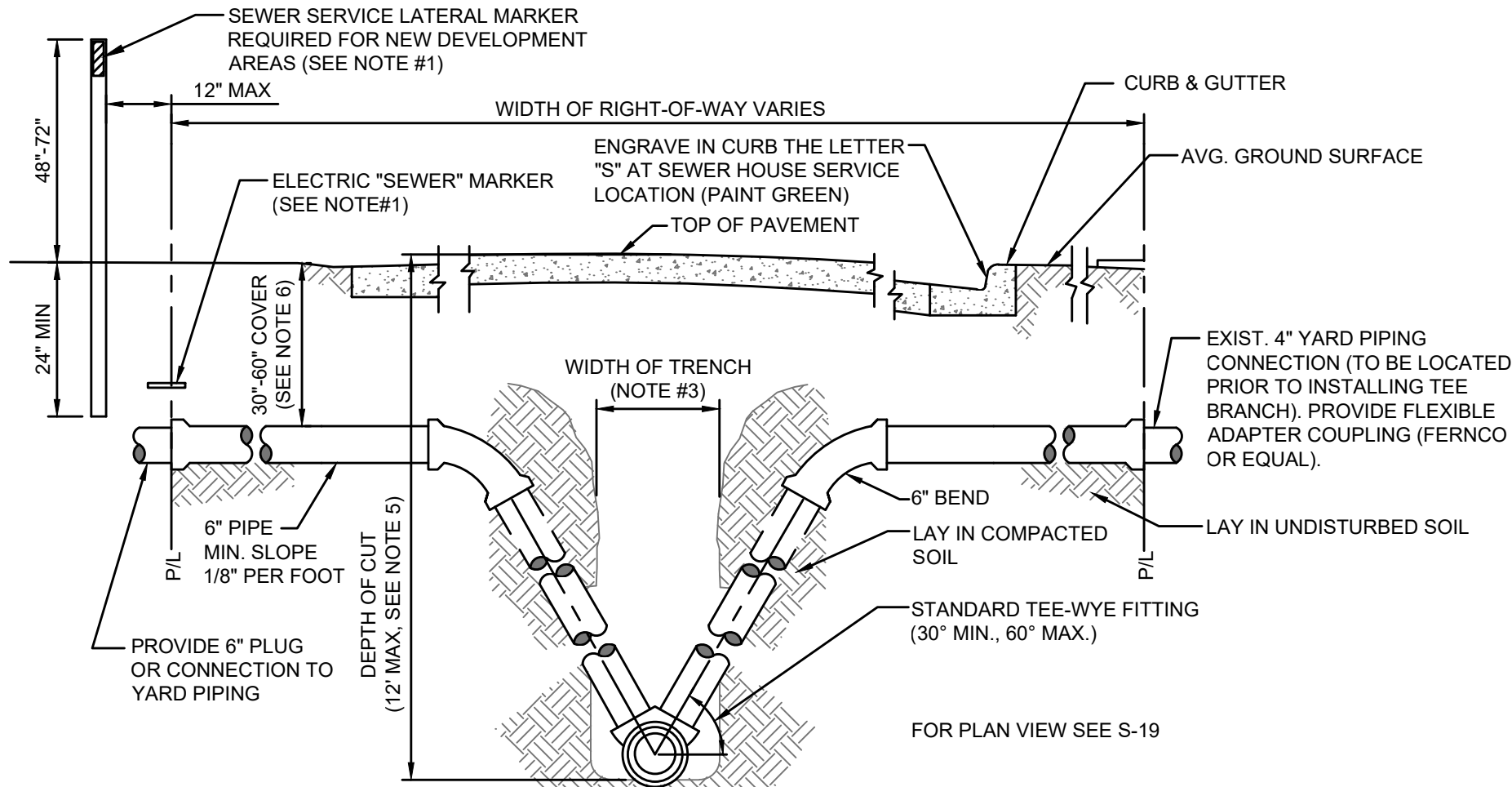
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DRAWING NO.		100		SCALE: AS NOTED		1		JEA		JEA		JEA	
DESIGN ENGINEER		AUTUMN HUBSCH		FLORIDA REGISTRATION NO.		72939		JEA		JEA		JEA	
DESIGNER		JEA		DATE		JEA		JEA		JEA		JEA	
CHECKED BY		JEA		DATE		JEA		JEA		JEA		JEA	
DATE		JEA		DATE		JEA		JEA		JEA		JEA	

WATER AND SEWER DETAILS

JEA
Building Community™



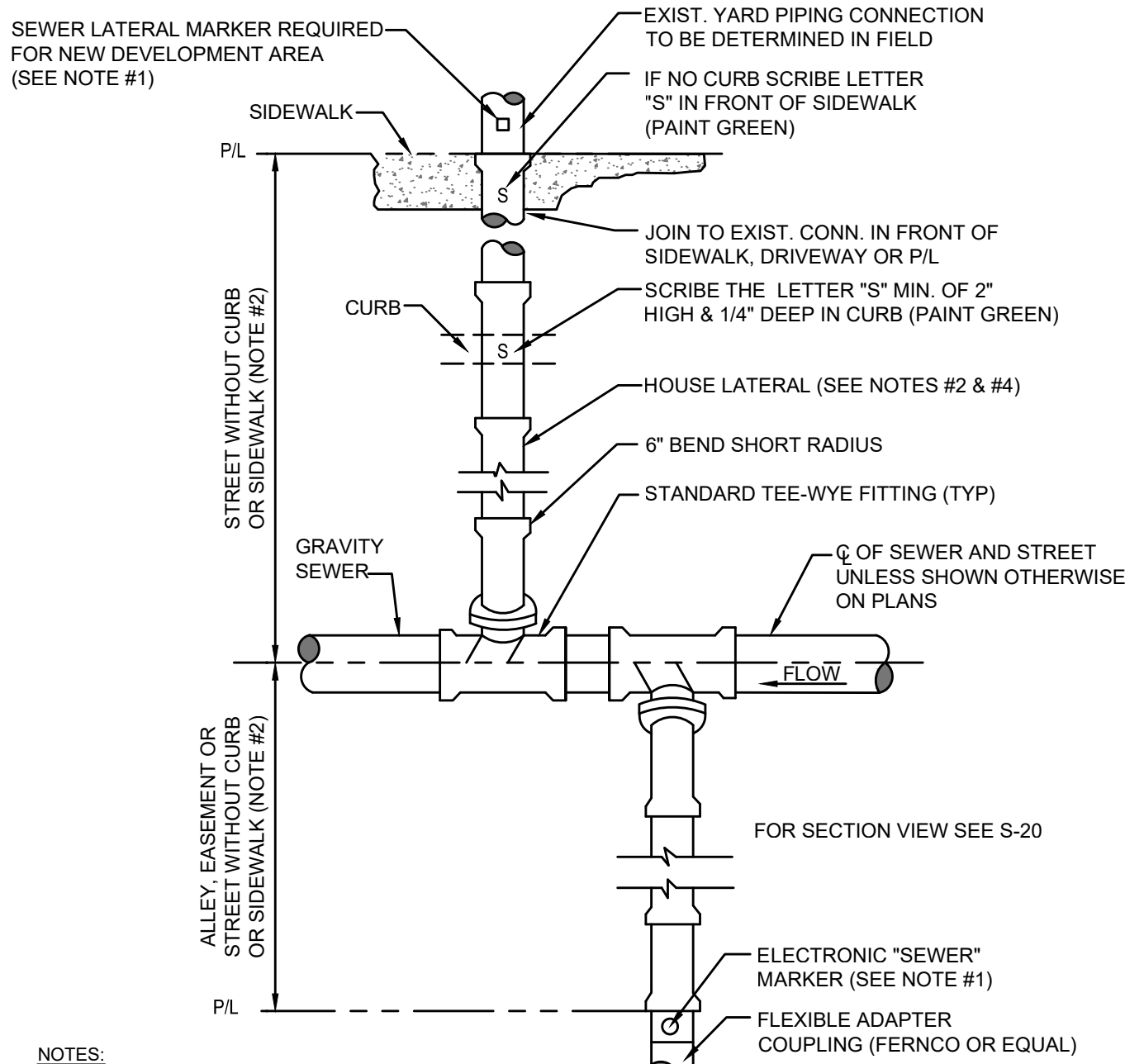
NOTES:

- TO MARK THE LOCATION OF THE 6" PLUG FOR NEW SERVICE: FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE BEING INSTALL FOR FUTURE USE AT A MAX DEPTH OF 3' AT FINISH GRADE. FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED GREEN) SHALL BE INSTALLED. WHERE REQUIRED BY JEA OR NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER SHALL BE INSTALLED TO MARKER SHALL ALSO BE INSTALLED.
- THE MINIMUM SIZE OF ALL HOUSE LATERALS SHALL BE 6 INCHES. THE MAXIMUM LENGTH OF A HOUSE LATERAL SHALL BE 60 FEET (LENGTH BETWEEN SEWER MAIN OR MANHOLE TO CUSTOMERS PROPERTY LINE).
- SEE MEASUREMENT AND PAYMENT SECTION FOR MAXIMUM PAYMENT WIDTHS.
- ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTINGS) SHALL BE PVC SDR-26.
- UNLESS APPROVED OTHERWISE BY A JEA O&M MANAGER, NO GRAVITY SEWER MAIN WITH SEWER SERVICE LATERALS SHALL BE CONSTRUCTED WITH A "DEPTH OF CUT" GREATER THAN 12 FEET.
- SEWER SERVICE LATERALS ASSOCIATED WITH GRAVITY SEWER MAINS WHICH ARE DEEPER THAN 12 FEET, MUST BE ROUTED TO A GRAVITY SEWER HIGH-LINE, A MANHOLE OR OTHER JEA APPROVED METHOD.
- THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER, WHERE POSSIBLE (CONTINGENT UPON MEETING THE CUSTOMER'S ON-SITE CONDITIONS AND LOCAL CONSTRUCTION STANDARDS). A LATERAL REQUIRING MORE THAN 60" OF COVER MUST BE APPROVED, PRIOR TO CONSTRUCTION, BY JEA.

HOUSE LATERAL - SECTION VIEW

JANUARY 2021

PLATE S-20



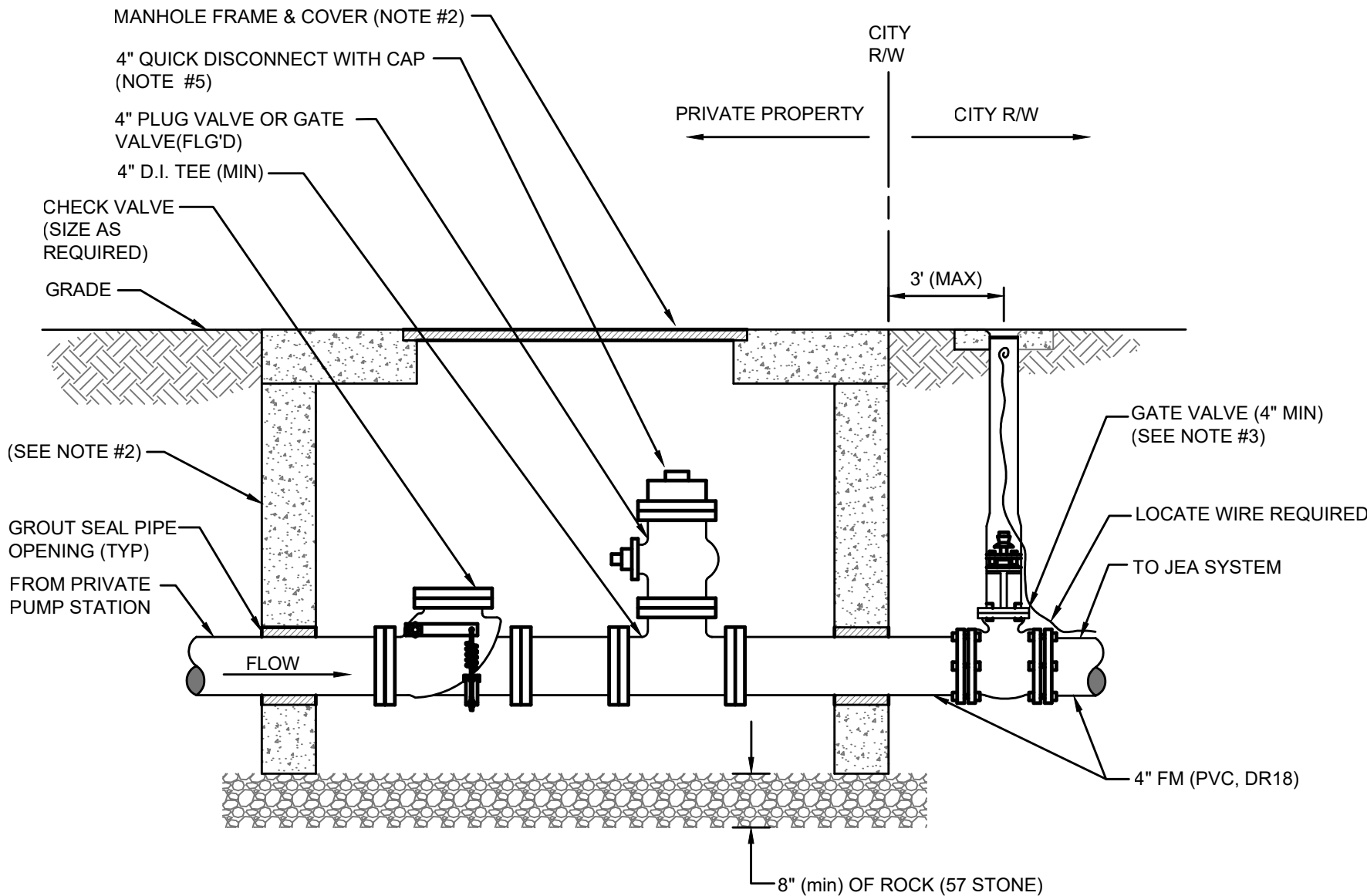
NOTES:

- TO MARK THE LOCATION OF THE 6" PLUG FOR NEW SERVICE: FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE BEING INSTALL FOR FUTURE USE AT A MAX DEPTH OF 3' AT FINISH GRADE. FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED GREEN) SHALL BE INSTALLED. WHERE REQUIRED BY JEA OR NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER SHALL BE INSTALLED TO MARKER SHALL ALSO BE INSTALLED.
- THE MINIMUM SIZE OF ALL HOUSE LATERALS SHALL BE 6 INCHES. THE MAXIMUM LENGTH OF A HOUSE LATERAL SHALL BE 60 FEET (LENGTH BETWEEN SEWER MAIN OR MANHOLE TO CUSTOMERS PROPERTY LINE).
- NO SEWER SERVICE CONNECTIONS PERMITTED ON GRAVITY SEWER PIPE WHICH ARE 16" AND LARGER.
- ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTING) SHALL BE PVC SDR-26.

HOUSE LATERAL - PLAN VIEW

JANUARY 2021

PLATE S-19



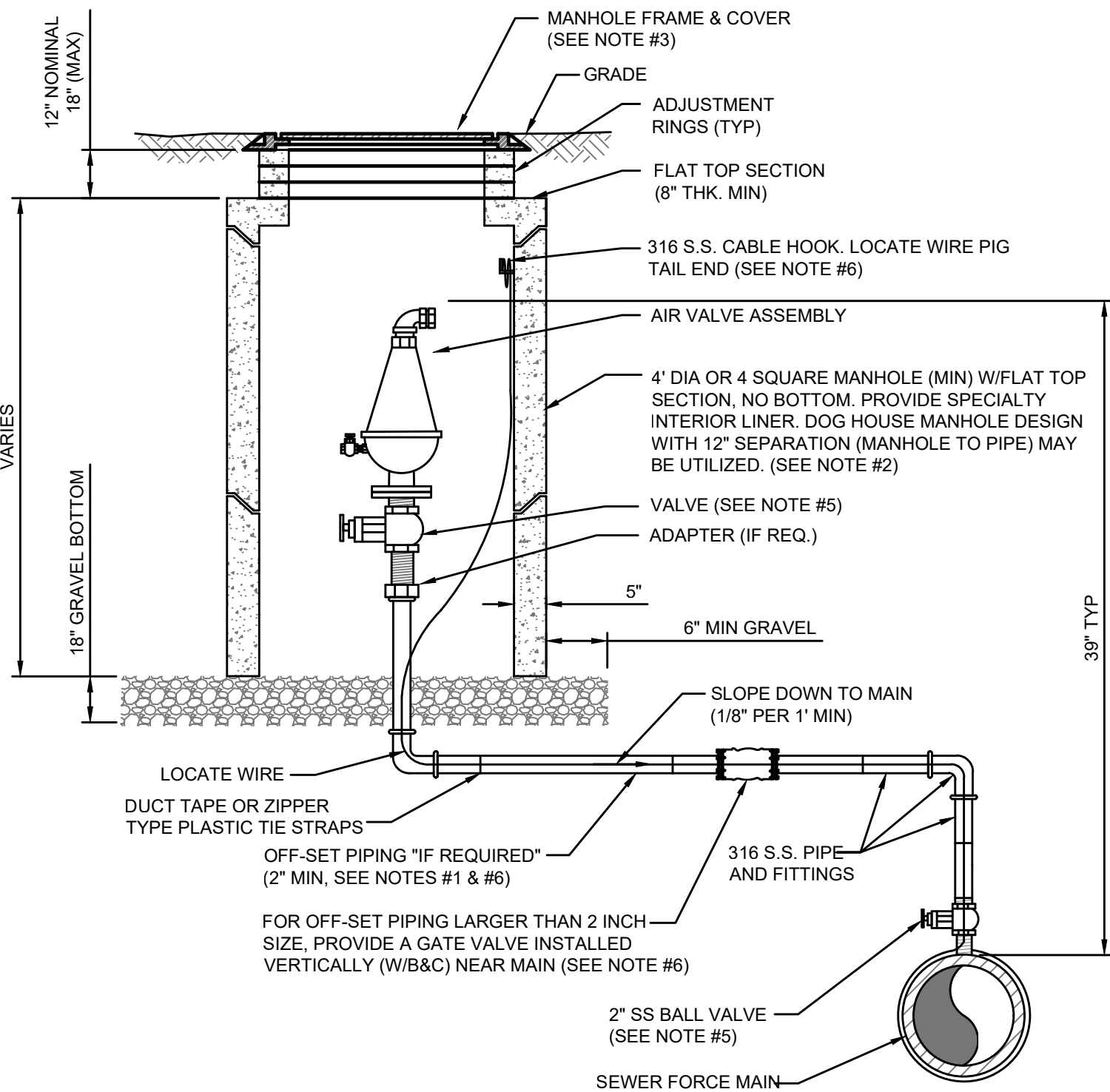
NOTES:

- SEWER PUMP-OUT BOX SHALL BE CONSTRUCTED ON PRIVATE PROPERTY AND LOCATED AT THE R/W LINE. THE PREFERRED CONSTRUCTION LAYOUT IS SHOWN ABOVE.
- ASSEMBLY TO BE ENCLOSED WITHIN A 48"x48" (MIN) PRECAST CONCRETE BOX WITH OPEN BOTTOM W/H-20 TRAFFIC LOADING COVER OR TYPE "C" MANHOLE OPEN BOTTOM WITH FRAME AND COVER (NON-JEA LOGO TYPE COVER).
- A JEA APPROVED GATE VALVE (4" MIN) SHALL BE PROVIDED AT THE R/W LINE FOR ALL FORCE MAIN PIPING WHICH EXCEEDS 15' LINEAR FEET WITHIN THE CITY R/W AREA. THE GATE VALVE AT THE R/W LINE IS NOT REQUIRED WHERE THE CONNECTION (CONNECTION AT JEA MAIN) IS LOCATED ON THE SAME SIDE OF THE STREET AS THE PUMP-OUT BOX (SHORT-SIDE SERVICE) AND CONSIST OF 15 LINEAR FEET OR LESS WITHIN THE CITY R/W AREA.
- NO CONNECTIONS PERMITTED INTO JEA FORCE MAINS WHICH ARE GREATER THAN 12" WITHOUT PRIOR JEA APPROVAL.
- QUICK DISCONNECT WITH CAP SHALL BE ALUMINUM AND BE POSITIONED DIRECTLY UNDER MANHOLE LID FOR ACCESS.

PRIVATE PUMP OUT ASSEMBLY

JANUARY 2021

PLATE S-46



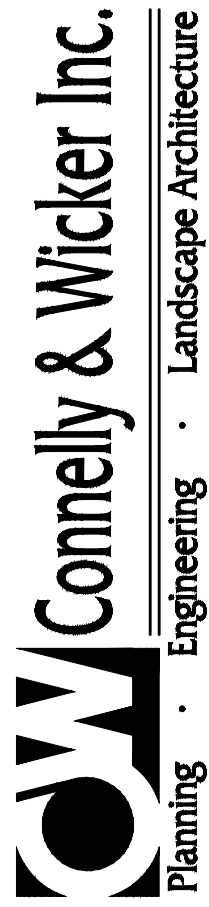
NOTES:

- THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM. (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER, PIPING SHALL BE 316 STAINLESS STEEL SCH 40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER, PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
- THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
- FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
- FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

AIR VALVE ASSEMBLY INSIDE MANHOLE

JANUARY 2021

PLATE S-29



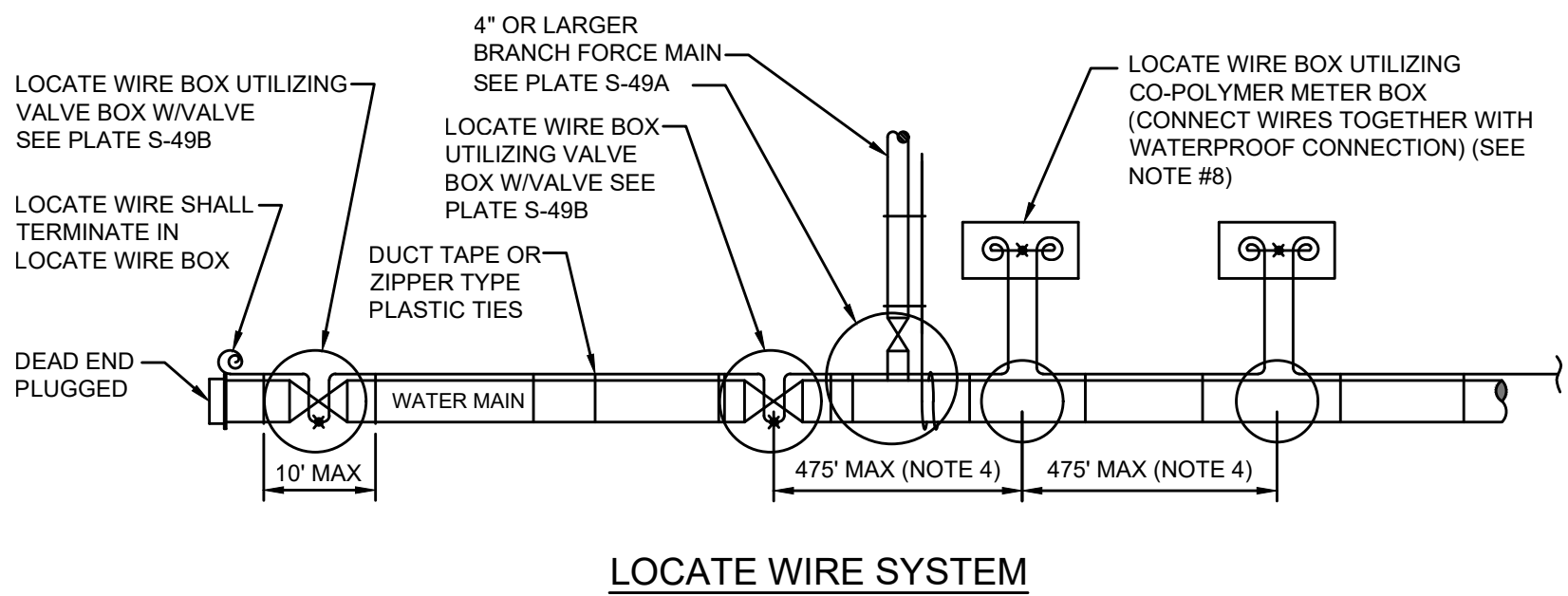
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SHEET NO.		21-01-0034		NOVEMBER, 2021			
DRAWING NO.		10G					
DESIGNER		CHECKED BY		DATE:		DATE:	
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FLORIDA REGISTRATION NO.		72939					
DESIGN ENGINEER		NO.		DATE		REVISIONS	
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WATER AND SEWER DETAILS



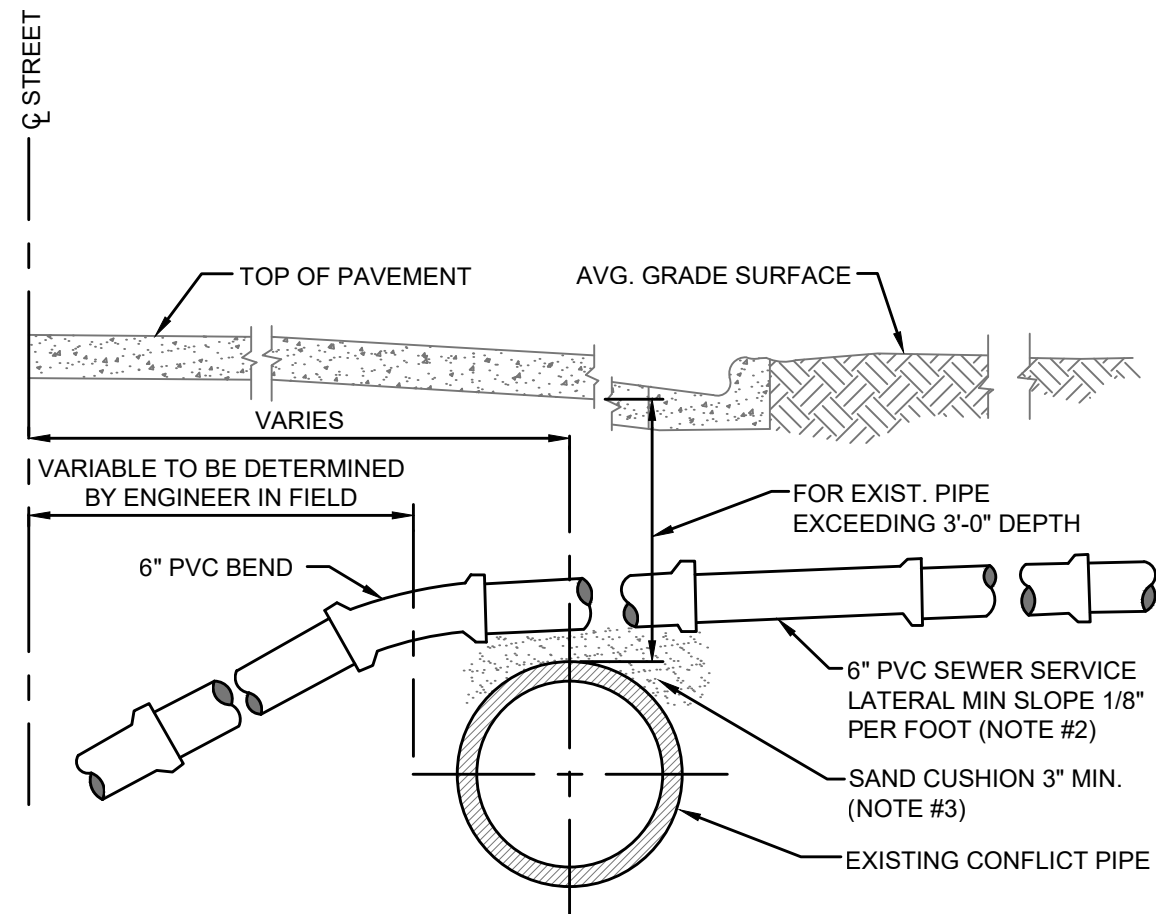
NOTES:

1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON OR PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
2. SECURE LOCATING WIRE TO PVC FORCE MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
3. THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
4. LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX (WITH A VALVE) OR A METER BOX (IF NO VALVE) AT 475' INTERVALS. SEE DETAIL PLATE S-49B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
5. LOCATING WIRE SHALL BE 12 GAUGE COPPER WIRE WITH .03 INCHES (MINIMUM) HDPE INSULATION THICKNESS, 0.141 INCHES (MINIMUM) O.D. RATED BREAK LOAD 250LBS., UF RATED (DIRECT BURIAL), GREEN COLOR. FOR HDD INSTALLATIONS, THE LOCATE WIRE SHALL BE COPPER CODED STEEL AS SPECIFIED IN SPEC. SECTION 750.
6. ✕ INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH WATERPROOF CONNECTION. (SEE DETAIL W-49B)
7. Ⓢ INDICATES A WIRE PIG-TAIL (24" LONG)
8. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
9. FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

LOCATE WIRE CONSTRUCTION FOR FORCE MAINS

JANUARY 2021

PLATE S-49



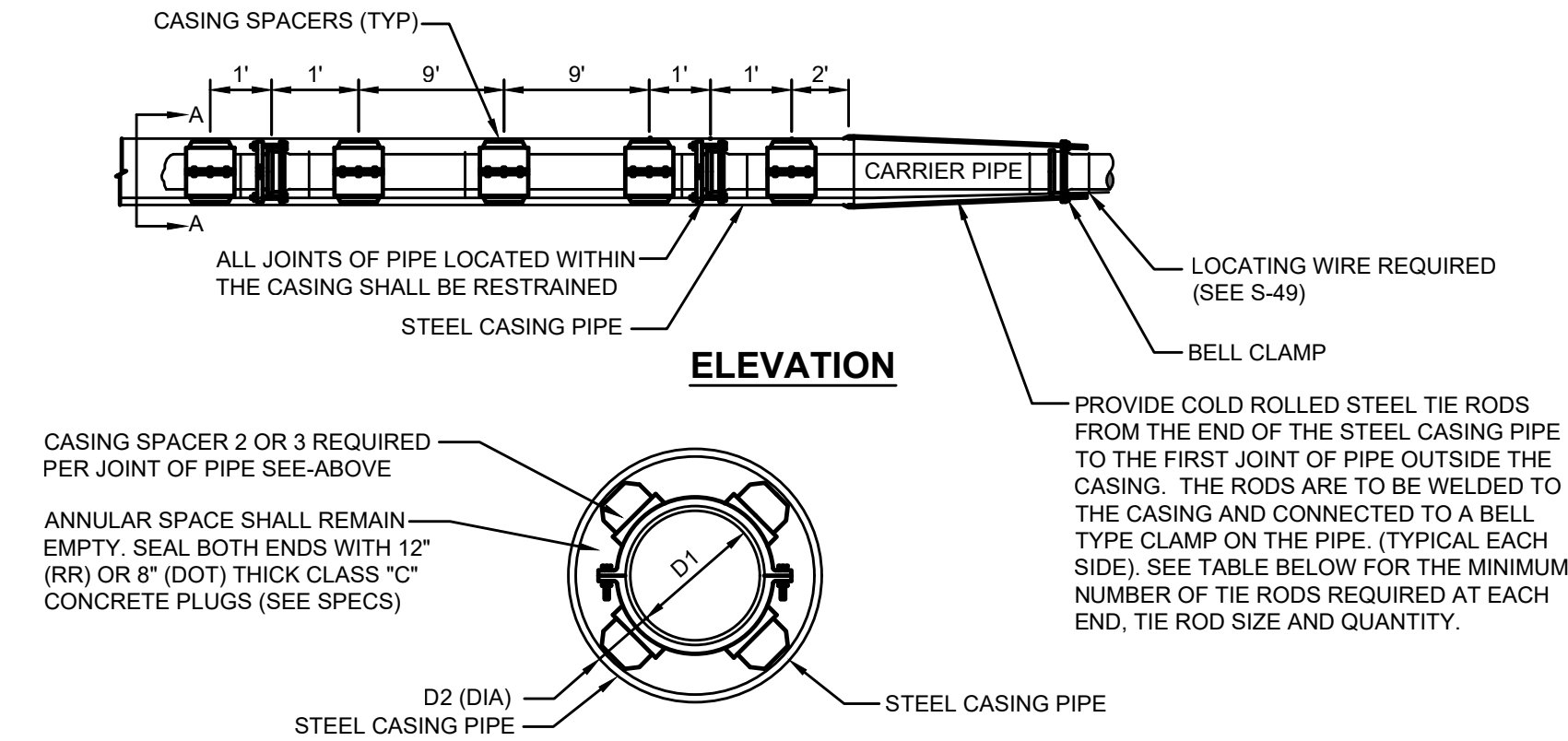
NOTES:

1. ALTERNATE GRADIENT FOR 6 INCH LATERAL SEWERS AT CONFLICTS WITH EXISTING UTILITIES.
2. FLATTER SLOPES MUST BE PRE-APPROVED BY JEA O&M MANAGER (ONLY) PRIOR TO CONSTRUCTION.
3. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.

HOUSE LATERAL OVER CONFLICT PIPE

JANUARY 2021

PLATE S-23



CARRIER TYPE AND CASING PIPE SIZES (MIN) IN INCHES																
CARRIER PIPE NO. DIA. (D ₁)	4	6	8	10	12	14	16	18	20	24	30	36	42	48		
CASING PIPE NOM. DIA. (D ₂)	14	16	20	20	24	30	30	30	36	42	48	54	60	66		
WALL THICKNESS RAILROAD-(FEC)	0.25	1.25	0.375	0.375	0.375	0.50	0.50	0.50	0.562	0.625	0.625	0.688	0.781	0.781		
WALL THICKNESS RAILROAD-(CSX)	0.25	0.281	0.375	0.375	0.375	0.469	0.469	0.469	0.562	0.625	0.625	0.688	0.781	0.844	0.938	
WALL THICKNESS DOT	0.25	0.25	0.25	0.25	0.25	0.312	0.312	0.312	0.375	0.50	0.50	0.50	0.50	0.50	0.50	
NUMBER OF TIE RODS (EACH END)	2	2	2	4	4	6	6	8	8	12	14	14	16	16		
TIE ROD SIZE (DIA.)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"		

PIPE MAIN CROSSINGS FOR RAILROADS OR HIGHWAYS

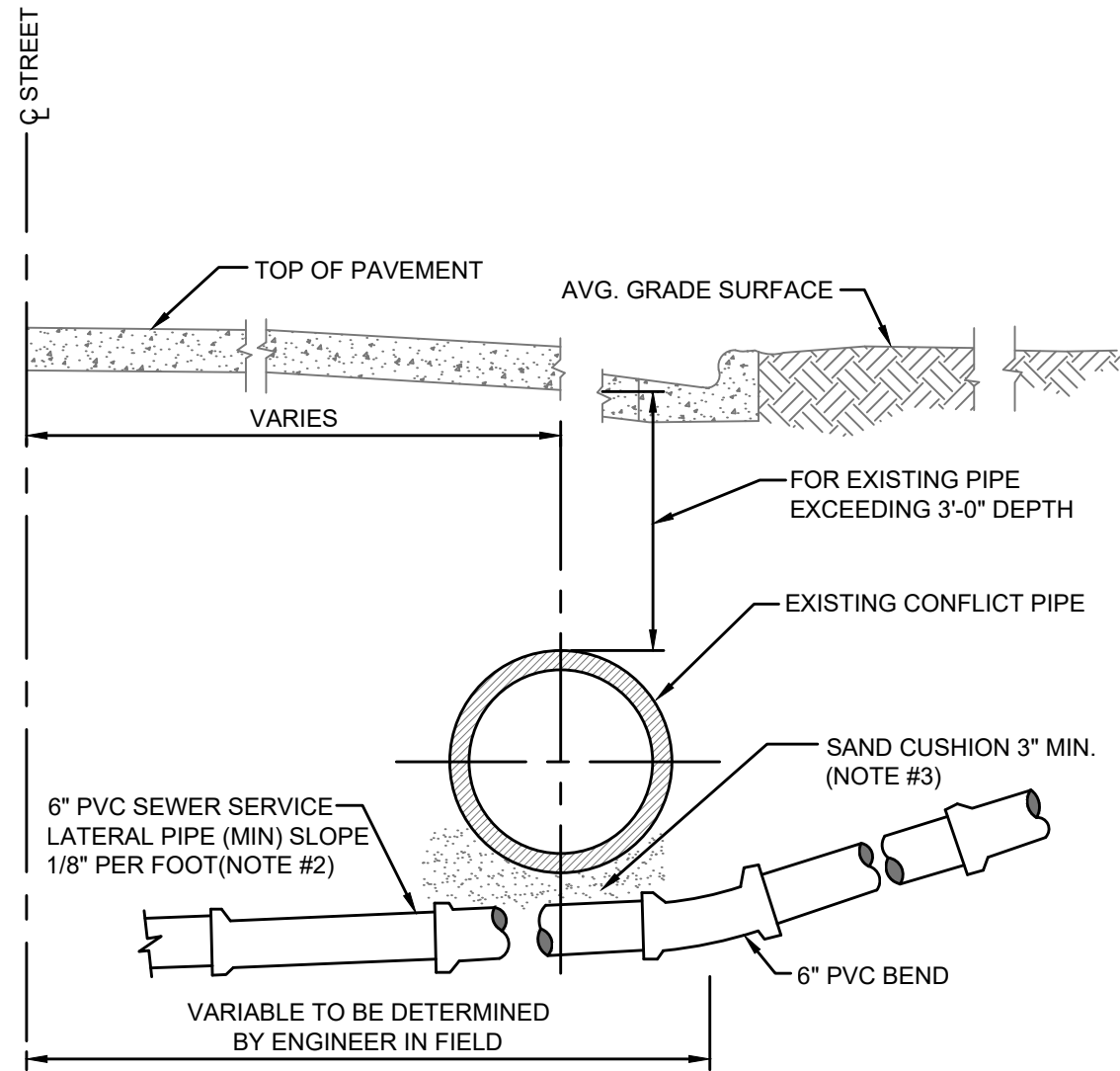
NOTES:

1. MIN. COVER TO TOP OF CASING; a) FDOT-3.0' b)RAILROAD-5.5' TO BASE OF RAIL, 4.5' FOR SECONDARY OR INDUSTRIAL TRACKS. EXCEPT FOR F.E.C. (SEE NOTE 3)
2. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE A MINIMUM OF 4 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING. HOWEVER, A MINIMUM OF 6 INCHES IS REQUIRED FOR FLORIDA EAST COAST R.R. CROSSINGS.
3. THE MINIMUM COVER FOR CASING UNDER FLORIDA EAST COAST RAILROAD SHALL BE 5.0 FEET BELOW THE BOTTOM OF TIES FOR ALL TRACKS.
4. ALL JOINTS WITHIN CARRIES PIPE SHALL BE MECHANICAL RESTRAINED JOINTS.
5. FOR STREET USES WHICH ARE NOT DOT OR RAILROAD, USE DOT CASING THICKNESS UNLESS OTHERWISE INDICATED BY ENGINEER.
6. CASING PIPE SHALL BE FURNISHED IN NOMINAL 8 FOOT LENGTHS (MIN.) UNLESS OTHERWISE INDICATED ON THE DRAWING OR APPROVED BY JEA.
7. PIPE TO BE USED AS A CASING SHALL CONFORM TO EITHER ASTM STANDARD A139 FOR "ELECTRIC FUSION (ARC) WELDED STEEL PIPE". WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI OR "API SPECIFICATION API-SLX, GRADE X-42 WELDED STEEL PIPE".

TYPICAL CASING DETAIL - SEWER

JANUARY 2021

PLATE S-25



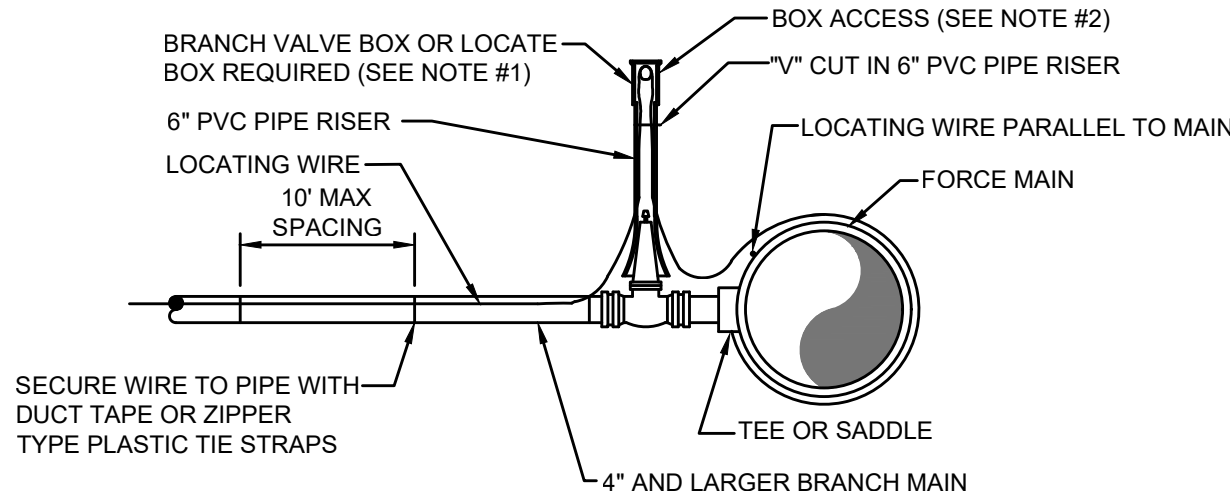
NOTES:

1. ALTERNATE GRADIENT FOR 6 INCH LATERAL SEWERS AT CONFLICTS WITH EXISTING UTILITIES.
2. FLATTER SLOPE MUST BE PRE-APPROVED BY JEA O&M MANAGER (ONLY) PRIOR TO CONSTRUCTION
3. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.

HOUSE LATERAL UNDER CONFLICT PIPE

JANUARY 2021

PLATE S-24



BRANCH FORCE MAIN

(4" AND LARGER SEWER MAIN)

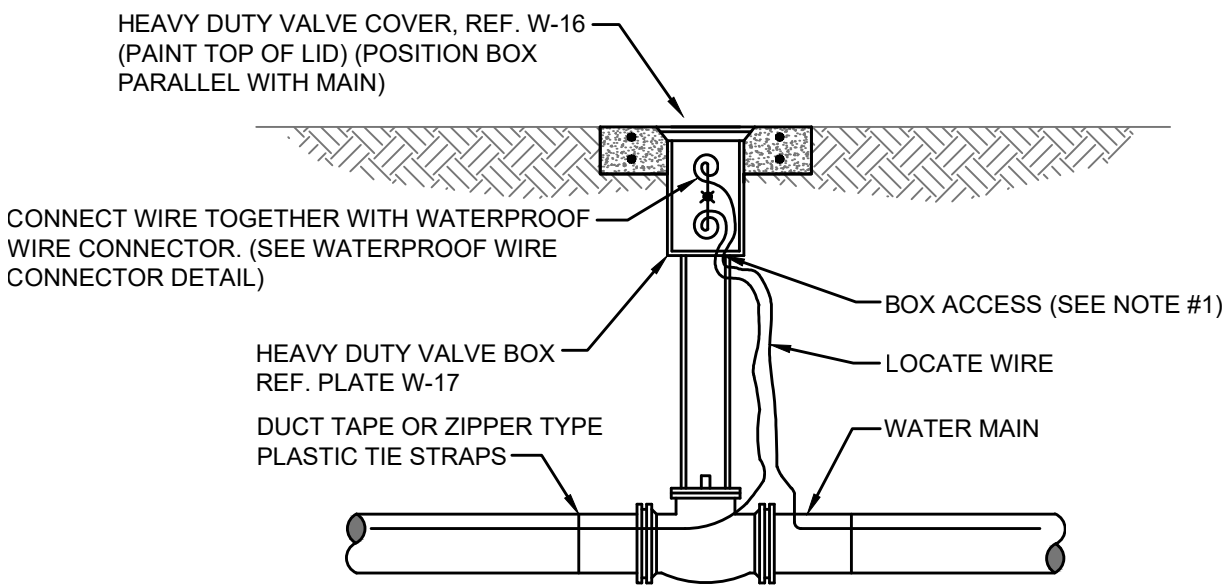
NOTE:

1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE S-30).
3. LOCATE WIRE BOX SHALL BE INSTALLED OUTSIDE OF SIDEWALKS, DRIVEWAYS AND PAVEMENT.
4. Ⓢ INDICATES A WIRE PIG-TAIL (4" LONG)

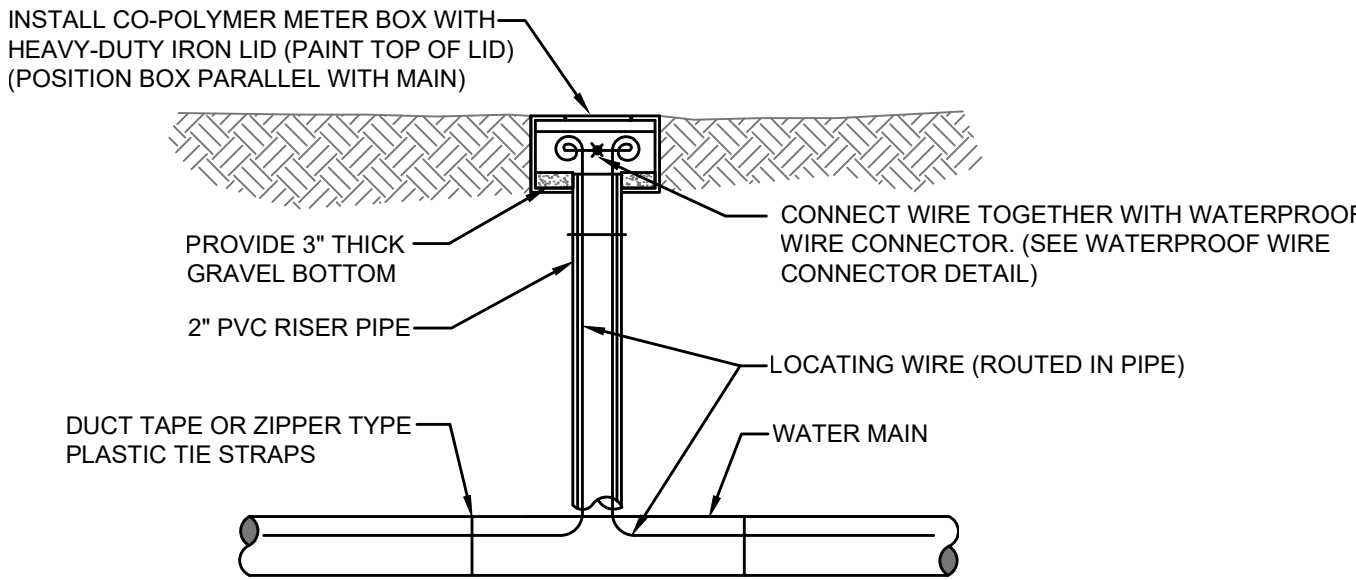
LOCATE WIRE FOR BRANCH MAIN

JANUARY 2021

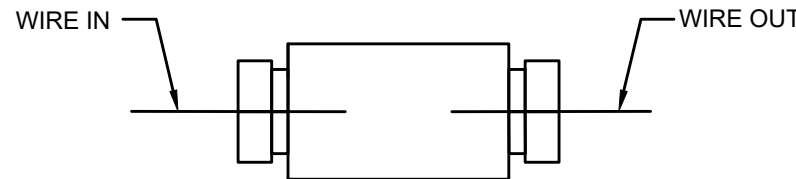
PLATE S-49A



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX



WATERPROOF WIRE CONNECTOR DETAIL

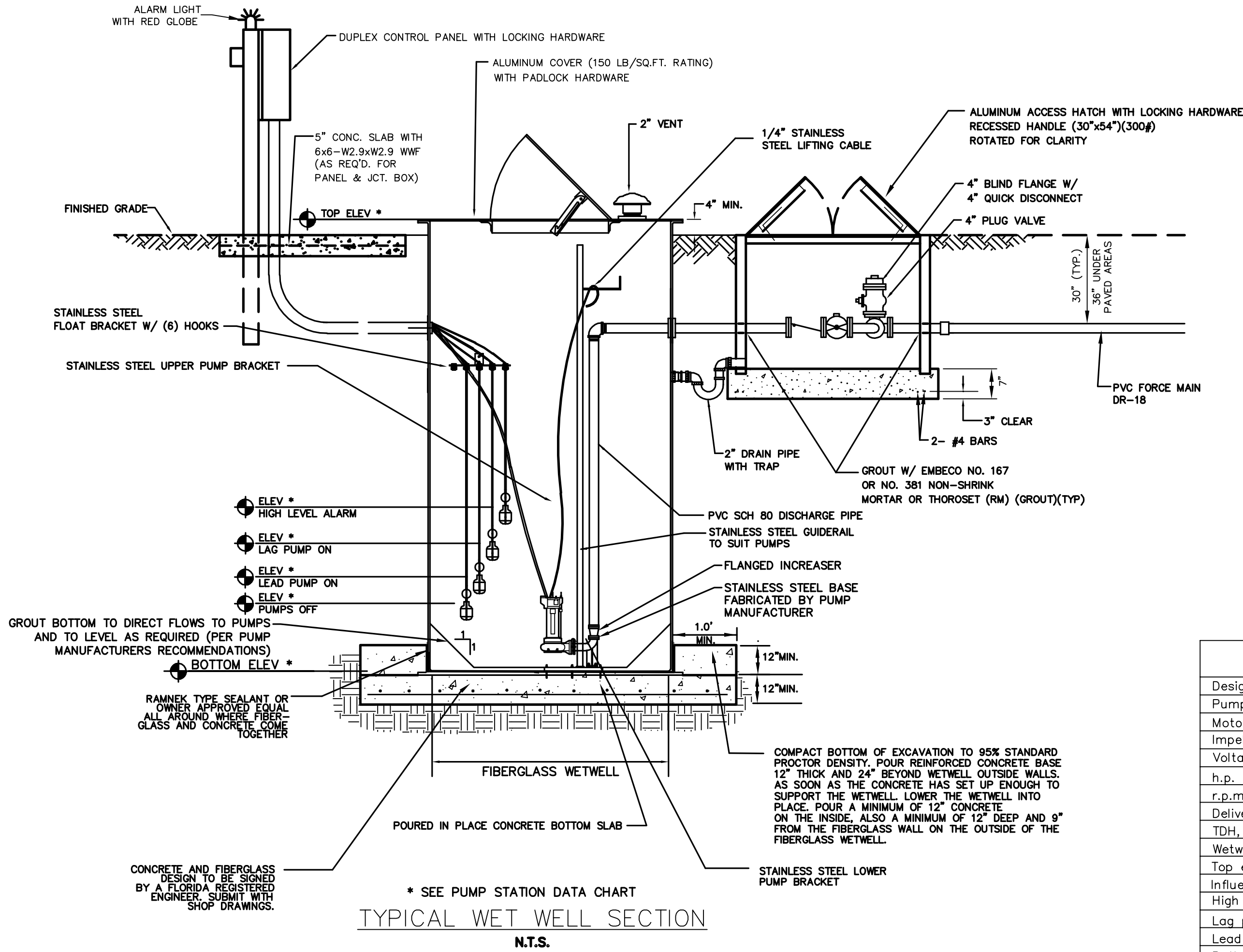
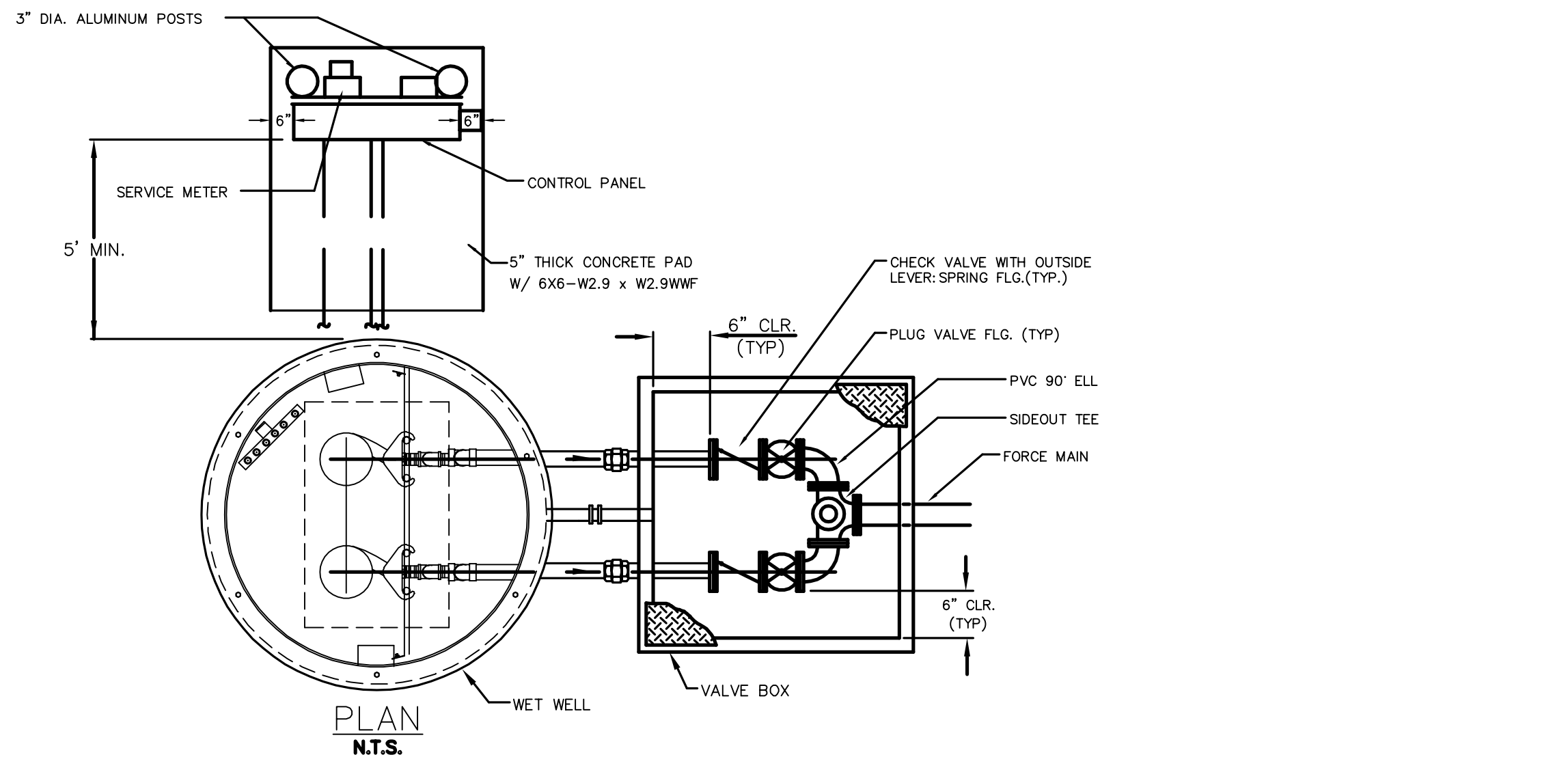
NOTES:

1. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE (SEE W-18).
2. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4" ABOVE FINAL GRADE AND LOCATE POINTS.
3. LOCATE WIRE CONNECTION SHALL ONLY BE A 2 WAY CONNECTION.

LOCATE WIRE BOX

JANUARY 2021

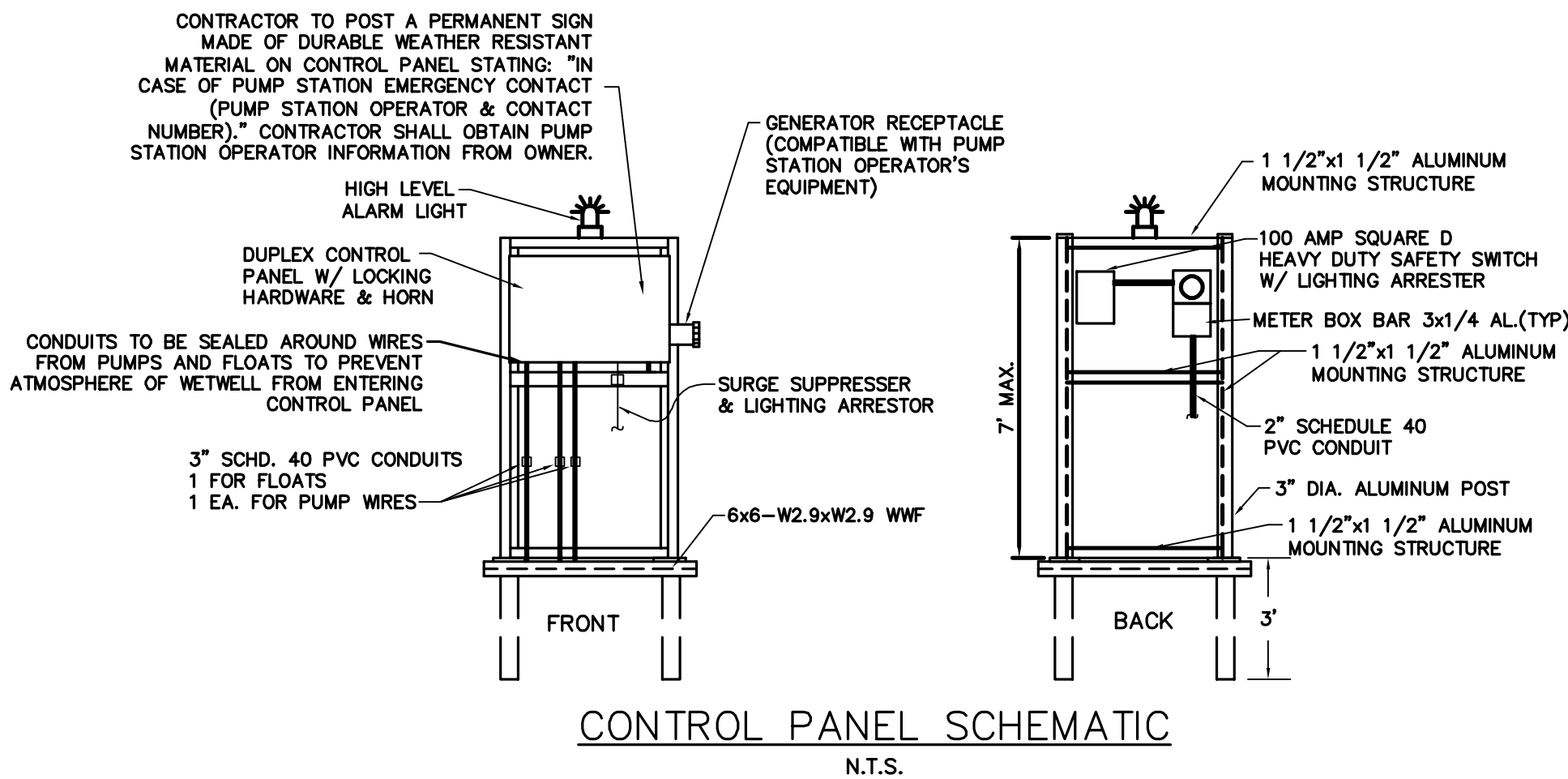
PLATE S-49B

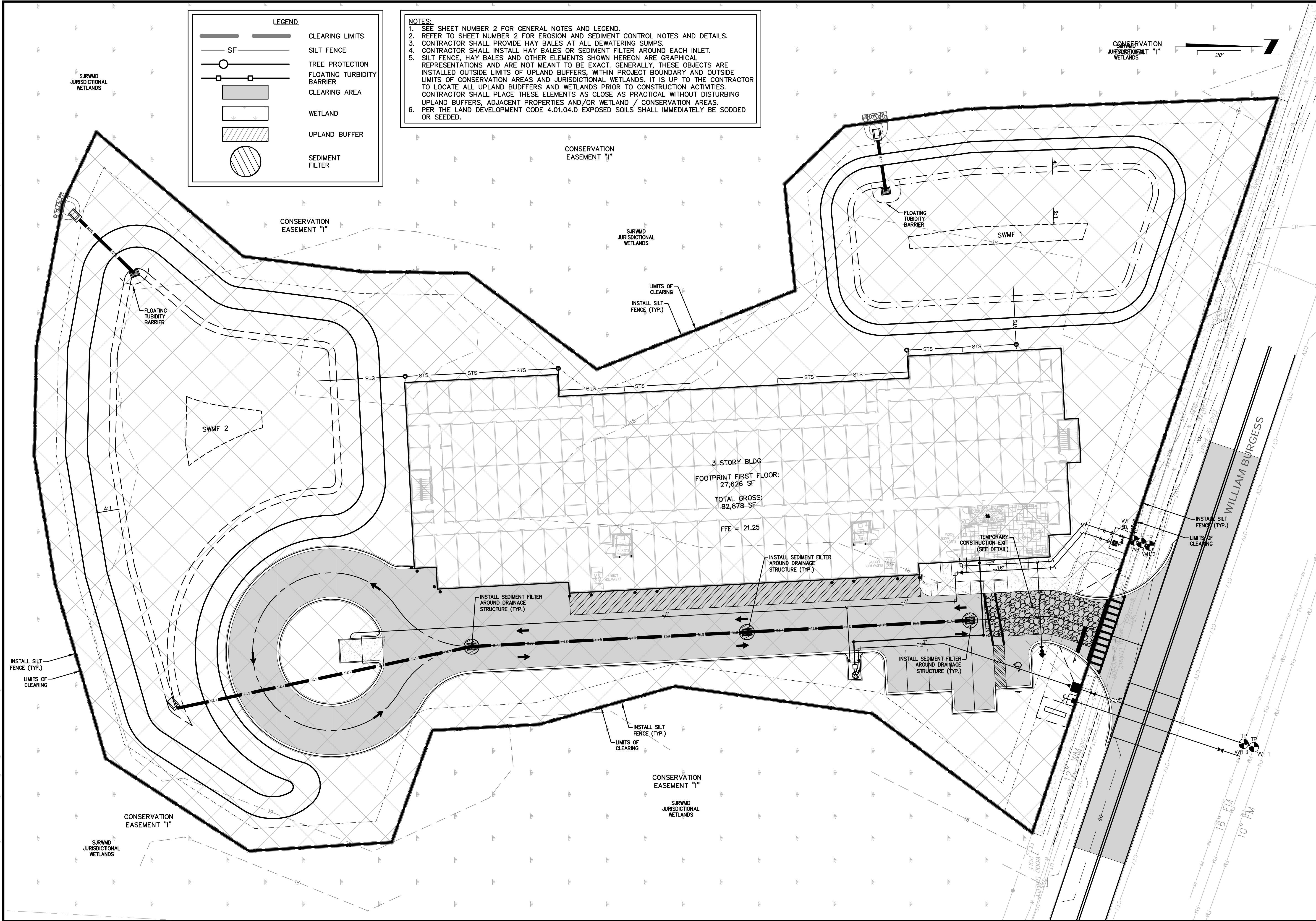


PUMPING STATION DATA	
Designation	PUMP STATION
Pump model	NP 3127 SH 3~ADAPTIVE 249
Motor	N 3127.060.21-11-2AL-W
Impeller	146
Voltage	230V
h.p.	11 HP
r.p.m.	3505 RPM
Delivery, GPM	20
TDH, feet	108' TDH
Wetwell Inside Diameter	4.00'
Top elev.	21.65
Influent Inv	15.15
High level alarm elev.	14.65
Lag pump on elev.	14.15
Lead pump on elev.	13.65
Both pumps off elev.	12.65
Bottom elev.	9.65
Force Main Diameter	2"
Discharge Pipe Diameter	2"

GENERAL NOTES:

1. VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE SPINDLES WITH MINIMUM CLEARANCES AS SHOWN FOR 6" DIAMETER PIPE AND SMALLER CLEARANCES SHALL INCREASE AS REQUIRED FOR LARGER PIPE SIZES. SIZE OF HATCH ON VALVE VAULT IS FOR 4" PIPE AND SHALL INCREASE ACCORDINGLY WITH LARGER PIPE SIZES.
2. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE OR NON-SHRINK GROUT.
3. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
4. WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE SIZE AS REQUIRED BY PUMP MANUFACTURER AND APPROVED BY OWNER.
5. FLEXIBLE COUPLING SHALL BE SLEEVE TYPE.
6. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE STAINLESS STEEL.
7. ALL CONDUIT CONNECTING TO THE CONTROL PANEL WILL HAVE A CONDUIT BODY GROUSE-HINDS TYPE ESUF OR EQUAL FILLED WITH NON HARDENING COMPOUND.
8. SURGE SUPPRESSER SHALL BE CONNECTED TO THE MIDDLE BAR OF DOUBLE THROW SAFETY SWITCH.
9. ALL EXPOSED FERROUS METAL WITHIN WET WELL AND VAULT SHALL BE COATED WITH KOP-COAT COAL TAR EPOXY 300-M, (20ML DRY THICKNESS).
10. THE AUDIO AND VISUAL ALARM SHALL HAVE A SELF CONTAINED POWER SUPPLY. LIFT STATION SHALL COMPLY WITH EPB RULE 3.404.A.9
11. CONTRACTOR TO COORDINATE PROVIDING POWER TO PUMP STATION WITH ELECTRICAL ENGINEER.
12. ALL PUMP STATIONS AND LIFT STATIONS SHALL BE CONSTRUCTED WITH A MINIMUM OF TWO (2) PUMPS. EACH PUMP SHALL BE A STANDBY FOR THE OTHER AND SHALL BE OF THE SAME CAPACITY AND CAPABLE OF HANDLING FLOWS IN EXCESS OF THE DESIGN PEAK FLOW. THE CONTROL SYSTEM SHALL AUTOMATICALLY ALTERNATE PUMPING STARTS. SHOULD THE LEAD PUMP FAIL, THE STATION SHALL ACTIVATE AND ALARM PRIOR TO THE ALTERNATION AND START OF THE LAG PUMP.
13. CONTROL PANEL SHALL COME EQUIPPED WITH GENERATOR RECEPTACLE FOR EMERGENCY OPERATION OF PUMP STATION.
14. CONTRACTOR TO FIELD VERIFY WHAT PHASE POWER AND VOLTAGE IS AVAILABLE ON SITE AND INDICATE SUCH ON SUBMITTED SHOP DRAWINGS.
15. CONTROL PANEL TO BE EQUIPPED WITH LIGHTNING ARRESTER AND SURGE SUPPRESSOR.
16. PUMP STATION AND CONTROL PANEL CONNECTION TO BE HARD WIRED.
17. ALL ELECTRICAL COMPONENTS IN WETWELL SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE REQUIREMENTS FOR CLASS I GROUP D, DIVISION 1 LOCATIONS AND ALL ELECTRICAL EQUIPMENT WITHIN THE WETWELL BE SUITABLE FOR USE UNDER CORROSIVE CONDITIONS.
18. A FUSED DISCONNECT SWITCH SHALL BE PROVIDED FOR THE MAIN POWER FEED.
19. ELECTRICAL EQUIPMENT EXPOSED TO WEATHER TO MEET THE REQUIREMENTS OF WEATHERPROOF EQUIPMENT NEMA 4.
20. A 110 VOLT POWER RECEPTACLE SHALL BE PROVIDED INSIDE THE CONTROL PANEL WITH GROUND FAULT INTERRUPTION PROTECTION.
21. CONTROL PANEL SHALL CONTAIN ELAPSED TIME METERS FOR MEASURING INDIVIDUAL PUMP RUN TIMES.





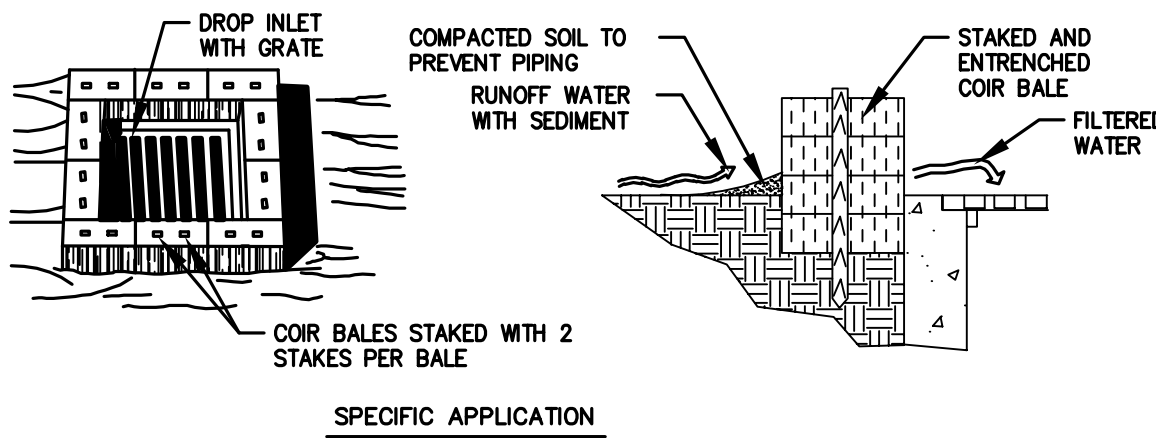
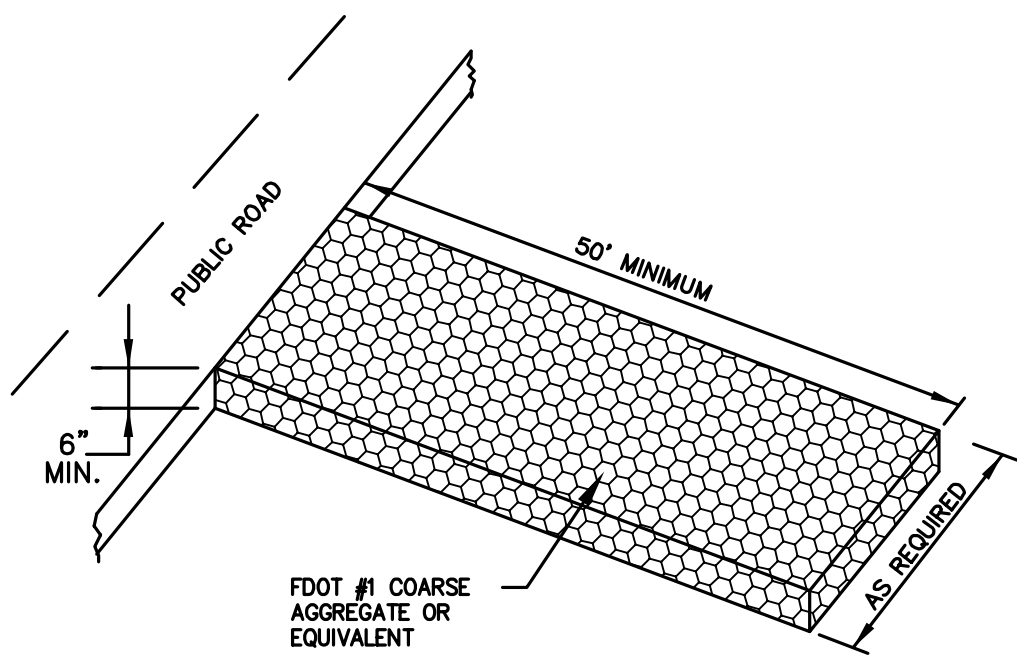
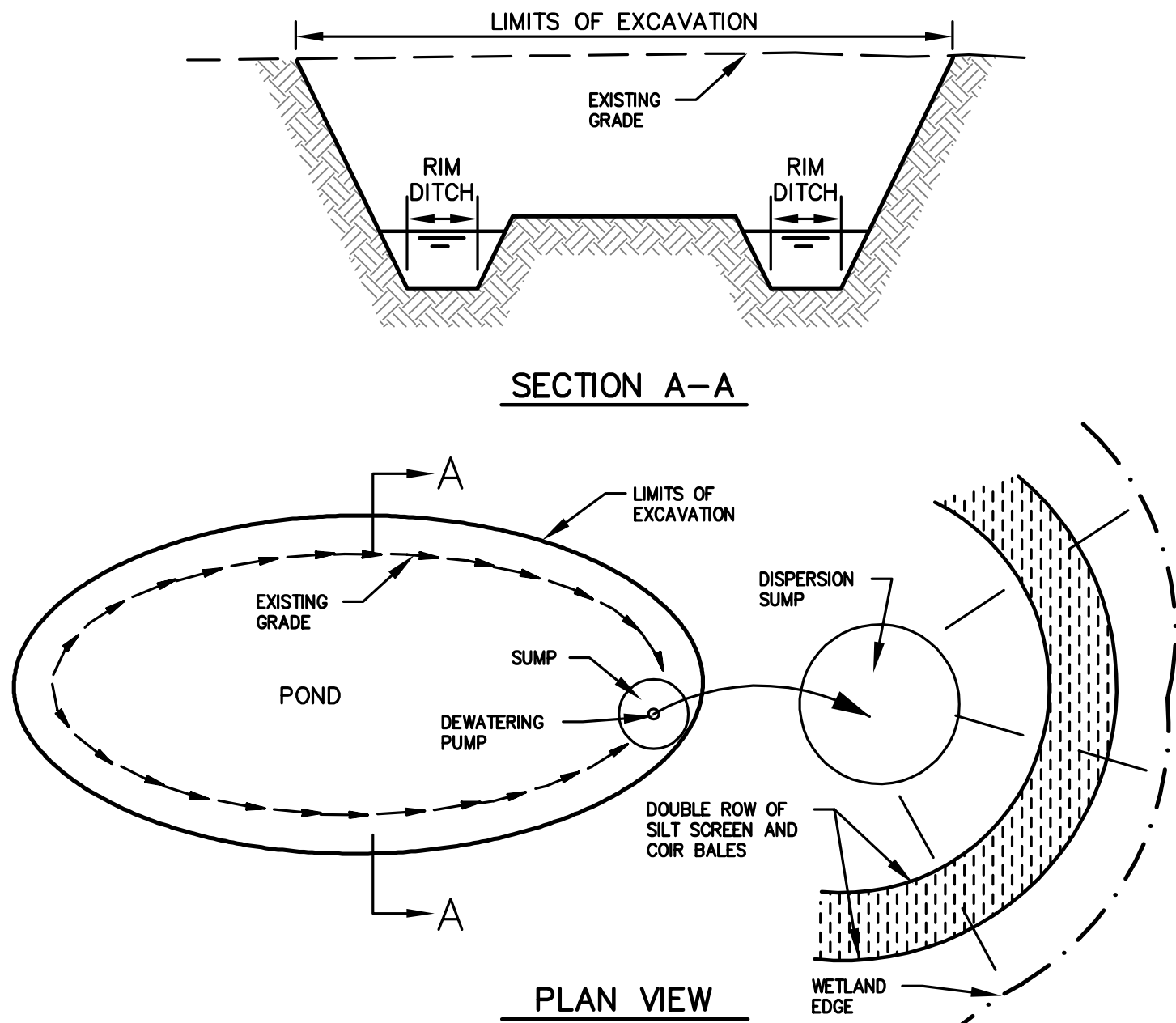
WILDLIGHT SOUTH STORAGE NASSAU COUNTY SS STORAGE, LLC	SEDIMENT AND EROSION CONTROL PLAN		CW Connelly & Wicker Inc. Planning • Engineering • Landscape Architecture 10060 Skimmer Lake Drive, Suite 500 Jacksonville, Florida 32246 (904) 265-3030 FAX: (904) 265-3031 www.cweng.com Florida Registry 3650 L.A. Number: LC26000311
	Project No.: 21-01-0034	Designed: AMH	
AUTUMN HUBSCH P.E. NUMBER: 72359 Reg. Engineer	Checked: JEW	O.C.: RCW	
	Date: JANUARY 2022	Scale: 1" = 20'	
Sheet 12			

SEDIMENT AND EROSION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS REQUIRED, THE STRIPS SHALL BE OVERLAPPED.
6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
8. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE COIR SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. COIR BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE COIR BALE OR FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
18. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
19. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
20. STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS REQUIRED.
21. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
23. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.P.) CHAPTER 6.
24. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
25. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
26. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
27. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
28. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABILIZE DISTURBED AREAS THROUGH COMPACTION, SILT SCREENS, COIR BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
29. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
30. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
31. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT INQUIRIES, RELATIVE TO COMPLIANCE OF S-RMWD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
32. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND AND OF SOD OR GRASS PER THE CONTRACT DOCUMENTS AND MEETING THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, XXXXXXXX AND NPDES FINAL STABILIZATION REQUIREMENTS.
34. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO

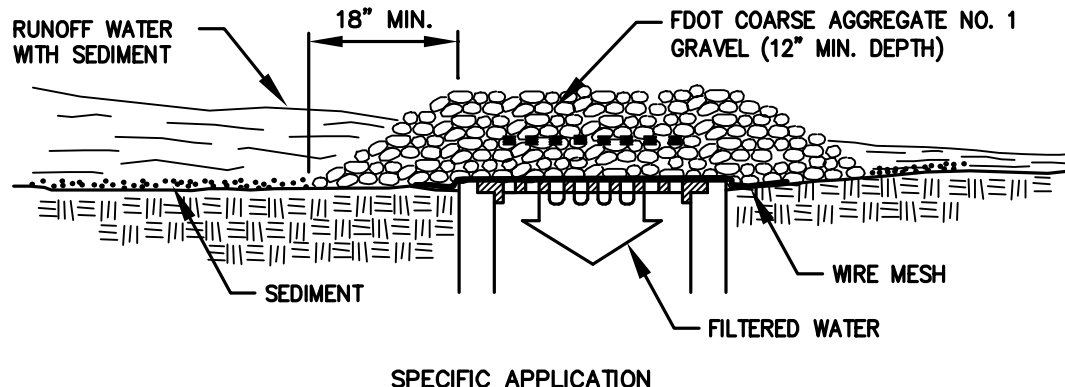
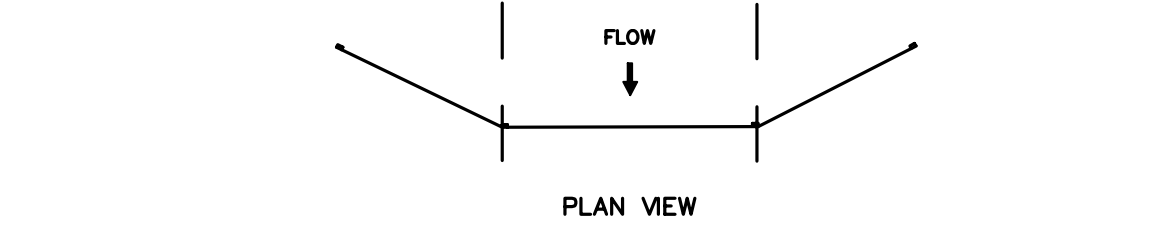
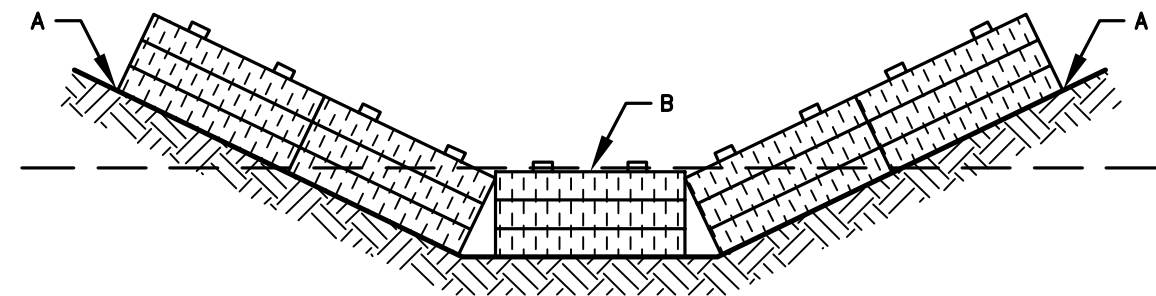
SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.

35. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS. (FOR ANY CONSTRUCTION NOT COVERED BY THE OWNER'S "NOTICE OF INTENT" PERMIT)



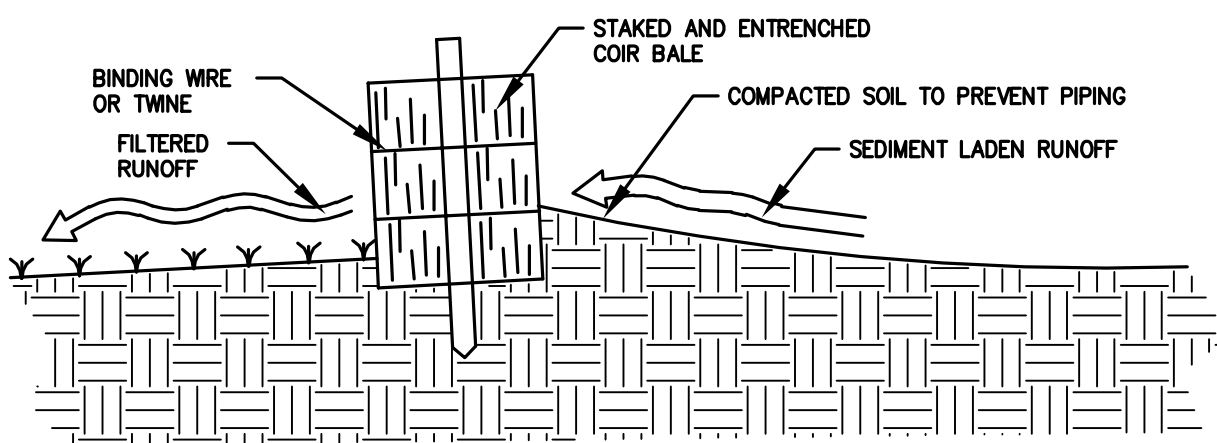
COIR BALE DROP INLET SEDIMENT FILTER

N.T.S.



GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

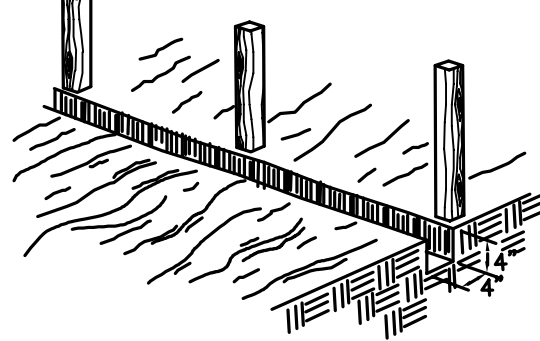
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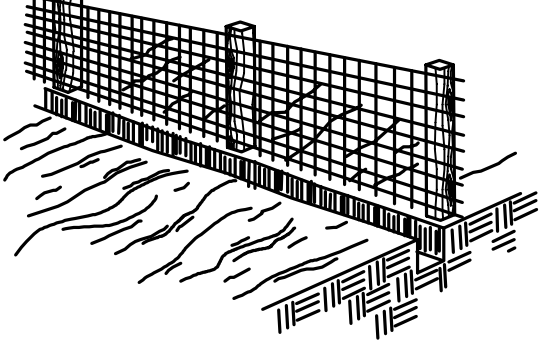
CROSS-SECTION OF A PROPERLY INSTALLED COIR BALE

N.T.S.

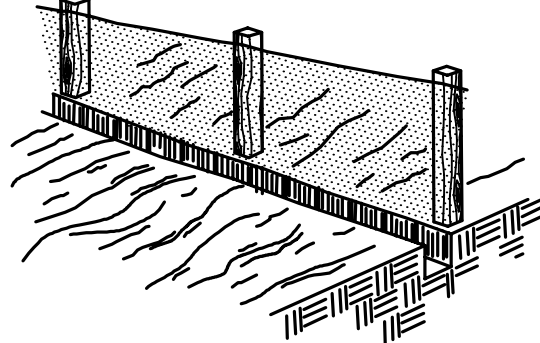
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



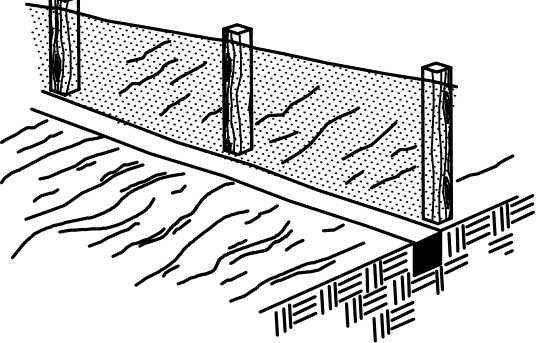
2. STAPLE WIRE FENCING TO THE POSTS.



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



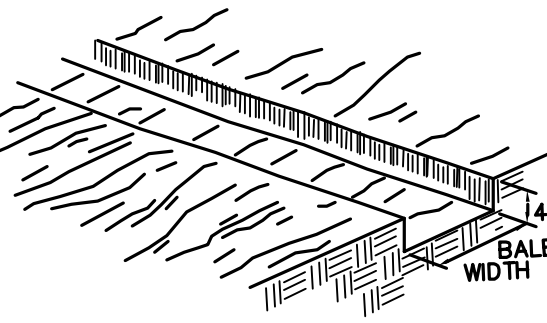
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



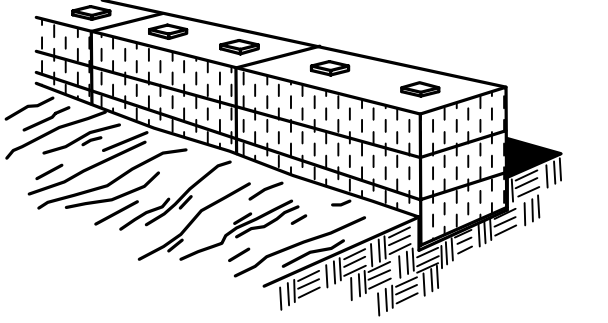
CONSTRUCTION OF SILT FENCE

N.T.S.

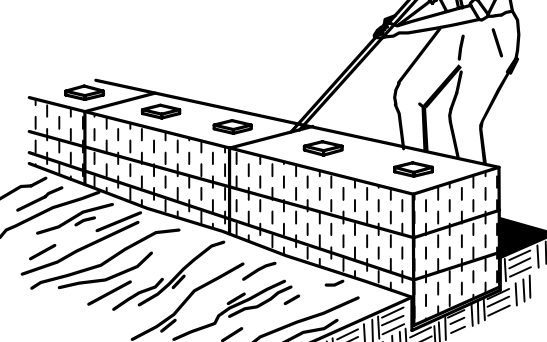
1. EXCAVATE THE TRENCH



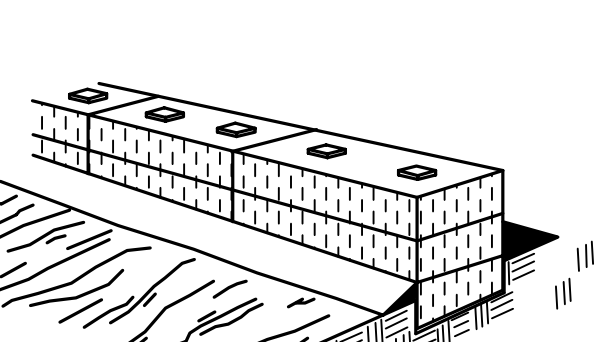
2. PLACE AND STAKE COIR BALES.



3. WEDGE LOOSE COIR BETWEEN BALES.



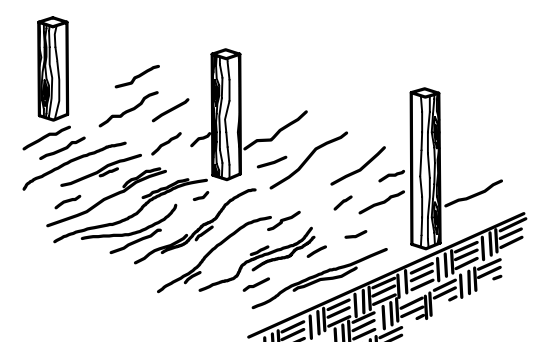
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



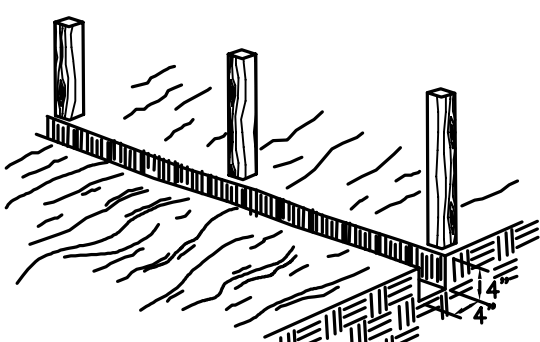
CONSTRUCTION OF A COIR BALE BARRIER

N.T.S.

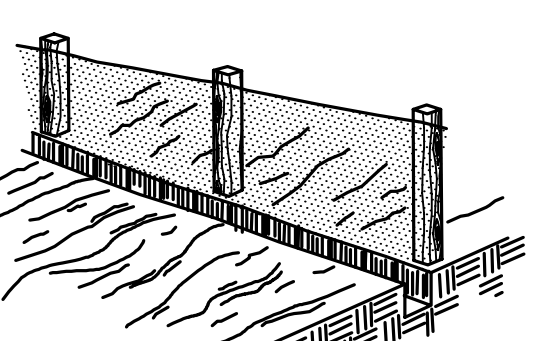
1. SET THE STAKES.



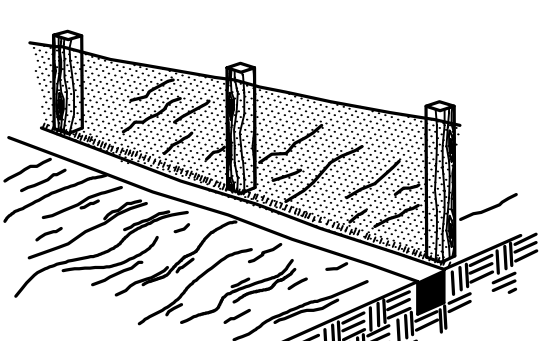
2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL



CONSTRUCTION OF A FILTER BARRIER

N.T.S.

LAST REVISION	DESCRIPTION
11/01/21	

REVISION	DESCRIPTION



FY 2022-23
STANDARD PLANS

TWO-LANE AND MULTILANE, WORK ON SHOULDER

INDEX
102-602

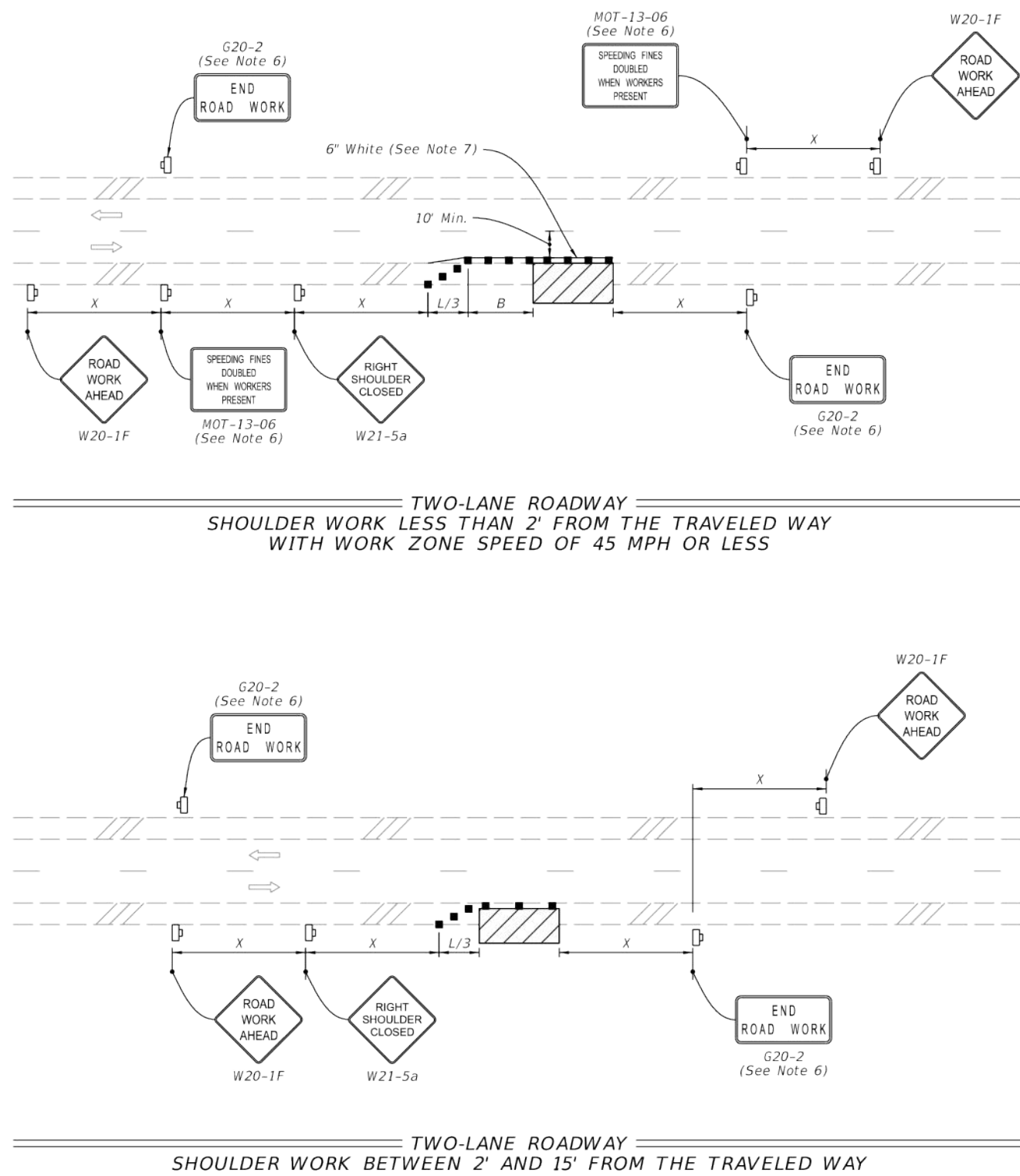
SHEET
1 of 2

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length
B = Work Zone Sign Spacing
See Index 102-600 for "L", "B", and channelizing device spacing values.
3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



LAST REVISION	DESCRIPTION
11/01/21	

REVISION	DESCRIPTION



FY 2022-23
STANDARD PLANS

TWO-LANE, TWO-WAY
WORK WITHIN THE TRAVEL WAY

INDEX
102-603

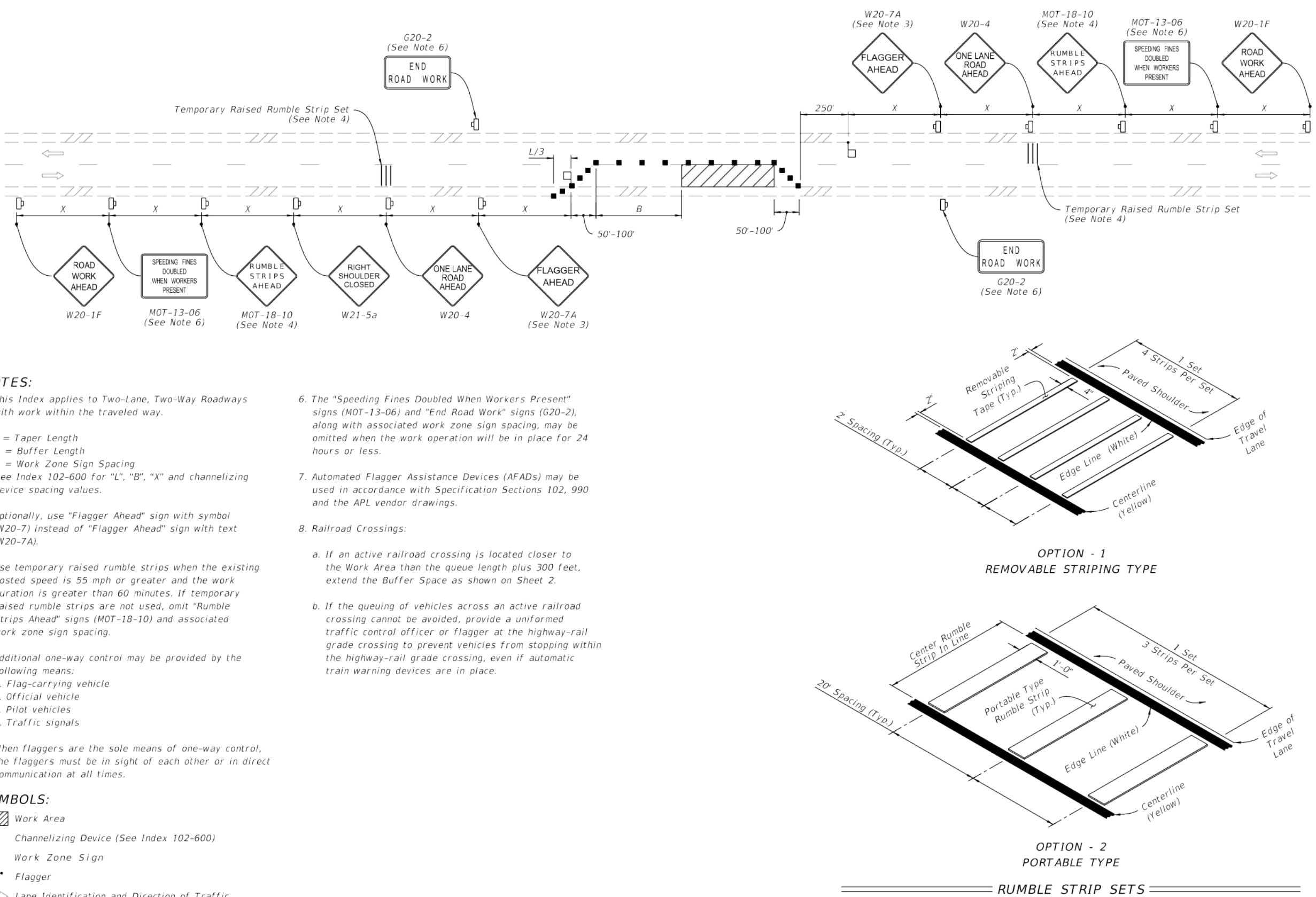
SHEET
1 of 2

NOTES:

1. This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
2. L = Taper Length
B = Buffer Length
X = Work Zone Sign Spacing
See Index 102-600 for "L", "B", "X", and channelizing device spacing values.
3. Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
4. Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign spacing.
5. Additional one-way control may be provided by the following means:
a. Flag-carrying vehicle
b. Official vehicle
c. Pilot vehicles
d. Traffic signals
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be omitted when the work operation will be in place for 24 hours or less.
7. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.
8. Railroad Crossings:
a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic



NASSAU COUNTY CODE REQUIREMENTS

1. Contractor shall furnish all labor, materials, and insurance to complete the work as shown in the plan.
2. Contractor is responsible for acquiring all required permits and associated fees to complete the work.
3. Contractor shall locate and visibly mark all buried utilities prior to construction and notify the landscape architect of any conflicts.
4. Contractor shall demolish and remove from the premises all pavement, sod and other materials required to implement the plan.
5. All work shall be completed in a timely manner and in accordance with standard industry practices.
6. Contractor shall coordinate a work plan with the owner or agent and the landscape architect prior to starting work and shall comply with all state and federal requirements for work safety.
7. Contractor shall coordinate an approved staging area with the owner prior to starting the work and shall maintain a clean and orderly site throughout the construction period and shall properly dispose of all trash and removed materials.
8. Contractor shall proceed with approved work in an orderly and timely fashion.
9. Contractor shall prevent offsite erosion, both by wind and rain, during construction using adequate means such as silt fencing, hay bales, and drain socks.
10. Contractor shall provide all new materials in first quality condition.
11. Substitutions shall be rejected unless approved by the landscape architect prior to installation.
12. Contractor shall repair and/or replace at contractor's cost and in an expedient manner any utilities, pipes, conduit, cables, fences, pavement, plant material, or any other existing property within or abutting the project site damaged by contractor during the course of the project.
13. Contractor shall notify the owner and landscape architect at least one week in advance for a substantial completion inspection. The landscape architect shall provide a punch list to the contractor outlining items to be completed by the contractor. Contractor shall complete punch list items in timely manner before calling for a final inspection by the owner and the landscape architect.
14. Final payment for the work shall not be issued until a final inspection is completed and approved by the landscape architect and/or the owner.
15. All work shall be warranted against defects and failure for at least 1 year following the final acceptance.
16. Contractor shall clean site of all construction debris, materials, and trash. Disturbed areas shall be fine-graded and landscaped according to the plans, or sodded with specified sod. Site must be clean and neat before a final acceptance and payment will be issued.

- Contractor shall ensure protection of existing trees and plants to be preserved within the project area and along the project boundaries prior to all clearing or construction activity using a tree barricade as specified in the plans, or if not specified in the plans, according to Florida Department of Transportation **Index Number 544 Landscape Installation** (<http://www.fdot.gov>). A silt fence may serve as a barricade where such measures are required and provide full protection of the critical protection zone as defined in Index 544.
- Provide 6" pine straw mulch to uniformly cover all bare, cleared, eroded, or disturbed areas within each tree protection area. Keep mulch 12" away from base of each tree.
- Notify the landscape architect prior to any construction activity where protection cannot be provided or must be modified to due to conflicting construction activity.
- Notify the landscape architect prior to site clearing and construction of any trees or otherwise valuable plants not noted on the plans that may warrant protection, especially large trees located on adjacent properties whose roots and canopy occupy space within the project area.
- Tree barricade shall remain in place for the duration of the project until landscape installation commences whereupon the contractor may remove barricades as needed to prepare final grades and install landscaping according to the plans. Remaining tree barricades shall be removed at the completion of the project.

1. Install all plants according to Florida Department of Transportation **Index Number 544 Landscape Installation** (<http://www.fdot.gov>).
2. Do not install groundcovers or shrubs on top of or into the rootball of new trees.
3. Contractor shall verify project site conditions and final quantities based on the plans prior to bidding and pricing. In the occurrence of a discrepancy between the plans and the plant list, the plans shall take precedence.
4. All plants shall conform to the specifications on the plant list or plant schedule.
5. All plants shall be Florida No. 1 Grade or better according to the Florida Grades and Standards Handbook.
6. All plants shall be nursery-grown containerized or b&b stock.

3. All plants shall be good health, vigorous, evenly branched, and thickly foliated when in leaf. All plants shall be free of disease, insects, including eggs and larvae, as well as have a healthy, developed root system. They should also be free of physical damage or adverse conditions that would prevent thriving growth.
8. Plant material, tree locations, and bed outlines shall be staked or flagged on site by the contractor and shall be adjusted as required to fit actual as-built conditions on site and approved by the owner or owner's representative prior to installation.
9. Unless otherwise specified, all existing plant material within the areas of new construction as shown on the plans shall be removed and properly disposed of off of the project site. Plant material outside of these areas shall remain and shall be replaced with like kind if killed or damaged via landscape installation activities (see general installation instructions and tree and existing vegetation protection).
10. Planting beds shall be shovel-cut to form a uniform, clean line between beds and lawn areas.
11. Remove all synthetic material surrounding the rootball, including strapping, and remove all material including burlap and wire basket from top third of root ball prior to backfilling. Failure to take these measures will result in rejection of the installed tree.
12. Shade trees shall be planted a minimum of 4 feet from any edge of pavement and 15 feet from overhead electric lines as measured from the at-grade centerline (refer to local provider to verify specific requirements).
13. All plant material shall be warranted for a period of one year from the date of Final Acceptance of the work and not the date on which it was installed.
14. Contractor shall provide all fine surface grading preparation for planting and shall maintain all finished grade requirements according to the plans, and ensure positive drainage. Report any drainage problems associated with finished grade or finished soil characteristics to the owner and the landscape architect.
15. Coordinate construction of planting areas with installation of irrigation system or hose bibs as specified.
16. Contractor shall provide mulch for all newly installed landscape areas. Provide a minimum 5' diameter mulch ring for all installed trees. Provide uniform coverage for all landscape beds at the specified depth maintain at least 6" clearance from all woody trunks and stems.
 - 16.1. Mulch shall be pine straw.
 - 16.2. Mulch shall be 6" uniform depth.
17. Install sod as specified in the plans, according to the Florida Department of Transportation Standard Specification **Section 570 Performance Turf** (<http://www.fdot.gov>) unless otherwise stated herein.
18. Contractor shall provide certified, healthy sod, free of weeds, disease, fungus, insects, or nematodes.
 - 18.1. Sod shall be 18.1.4 below:
 - 18.1.1. Celebration bermuda (*Cynodon dactylon* "Celebration")
 - 18.1.2. Argentine bahia (*Paspalum notatum* "Argentine")
 - 18.1.3. Palmetto St. Augustine (*Stenotaphrum secundatum* "Palmetto")
 - 18.1.4. Empire zoysia (*Zoysia japonica* "Empire")
19. Contractor shall provide plant maintenance during the construction period through Final Acceptance and the owner shall provide maintenance during the warranty period following Final Acceptance, unless otherwise specified in the contract documents.
20. Contractor shall maintain all staking and guying materials and correct tree leaning or tilting during the warranty period. Contractor shall ensure that tree trunks and branches are not damaged or growth restricted by strapping or guying materials. Contractor shall be responsible for removal of all above-ground staking and guying material at the end of the warranty period.

1. Contractor shall minimize soil compaction to all new planting areas by limiting access to those areas designated for planting purposes only. Contractor shall not store, clean, or empty equipment or materials within any area specified for preservation or new plant installation.
2. Prior to plant installation, contractor shall conduct a soil test in at least three locations on the site that best represent the plant distribution and conditions shown on the planting plan. The soil test shall be conducted by an independent laboratory qualified to test soils. The test shall be conducted to determine:
 - 2.1. Soil type
 - 2.2. Soil pH
 - 2.3. Nutrient content
 - 2.4. Recommended amendments
3. Contractor shall furnish a copy of the soil report(s) along with the contractor's recommended amendments to the landscape architect and the owner prior to initiating plant installation. Contractor shall not initiate plant installation without a written or verbal response from the landscape architect or owner indicating receipt of the report and agreement with the amendment approach.
4. At a minimum, contractor shall provide 5-8 percent organic pine bark compost uniformly throughout the planting soils prior to plant installation. Do not apply synthetic fertilizer to any planting area without the approval of the landscape architect or owner.

PROTECTED TREE PRESERVATION/REPLACEMENT
N/A

Site Use: Non-residential
Site Area: (125,017 sf (2.87 AC))
Required Green Space (10%): 12,502 sf
Provided Green Space: 21,433 sf
Required Trees (1/500 SF Landscape Area): 25
Provided Trees: 50

William Burgess Blvd. ROW: 325 lf
Road Classification: Major Collector
Required Canopy Trees (3/100 lf): 10
Provided Canopy Trees: 11
Required Understory Trees (3/100 LF): 10
Provided Understory Trees: 10
Required Landscape Area (15 sf/lf): 4,875 sf
Provided Landscape Area: 5,841 sf

Dumpster perimeter: 40 lf
Required Trees (1/10 lf): 4
Provided Trees: 4
Required Shrubs (1/2 lf): 20
Provided Shrubs: 20

Provided

Qty	Tree Genus	Pct
09	Acer	18%
08	Cercis	16%
04	Chionanthus	08%
07	Ilex	14%
04	Quercus	08%
10	Taxodium	20%
08	Ulmus	16%
50	Total	100%*

09	Acer	18%
08	Cercis	16%
04	Chionanthus	08%
07	Ilex	14%
04	Quercus	08%
10	Taxodium	20%
08	Ulmus	16%
50	Total	100%*

*May not equal 100 due to rounding

N/A

N/A

N/A

N/A

SEE SHEET L3 FOR TREE PLANTING DETAIL

QTY	ABV	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	TYPE	ORIGIN	DROUGHT TOLLER.	COMP/ AREA
TREES									
9	AR	Acer rubrum	Red maple	4" cal / 14-16' ht	As shown	Canopy	Native	High	18 %
8	CC	Cercis canadensis	Eastern redbud	3" cal / 8-10' ht	As shown	Understory	Native	High	16 %
4	CV	Chionanthus virginicus	Fringe tree	3" cal / 8-10' ht	As shown	Understory	Native	High	08 %
7	IC	Ilex cassine	Dahoon holly	3" cal / 8-10' ht	As shown	Understory	Native	High	14 %
4	QV	Quercus virginiana	Live oak	4" cal / 14-16' ht	As shown	Canopy	Native	High	08%
10	TD	Taxodium distichum	Bald cypress	4" cal / 13-15' ht	As shown	Canopy	Native	High	20%
8	UA	Ulmus alata	Winged elm	4" cal / 13-15' ht	As shown	Canopy	Native	High	16 %
							Totals	100 %*	
SHRUBS AND GROUNDCOVERS									
243	DT	Daniella tasmanica 'Variegata'	Variegated flax lily	1 gal / 10-12" ht	2' OC		Native	High	
20	IP	Illicium parviflora	Yellow anise	7 gal / 24-30" ht	2' OC		Native	High	
122	VO	Viurnum obovatum	Walter's viburnum	3 gal /18-24" ht / FTG	2.5' OC		Native	High	
86	ZP	Zamia pumila	Coontie palm	3 gal /18-24" ht / 6 fronds min.	3.5' OC		Native	High	
SOD									
	SOD	Zoysia japonica 'Empire'	Empire Zoysia	Certified solid sod	SF	Exotic	Exotic	Medium	

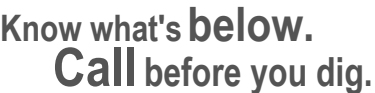
*May not equal 100 due to rounding

37.05 J The property owner is responsible for the maintenance of all landscape areas, including irrigation, mowing, trimming, fertilizing, & carrying out the activities to keep the plant material in a healthy and growing condition, maintain visual clearance, & allow passage of vehicles & pedestrians on public roads & non-exclusive easements.

37.05 B2 All trees planted will be staked or guyed for a period of at least 6 months.

37.05 G1 All plants will be fully irrigated.

LD C 37.03 C: Upland buffers shall be maintained in their natural vegetated condition. Native vegetation removed or destroyed within the upland buffer in violation of Nassau County Comprehensive Plan Policy 1.04A.02 shall be restored. These areas shall be replanted with comparable native vegetative species as were removed or destroyed. Noxious and non-native invasive plant materials can be removed. Dead vegetation can be removed. Limbing can occur within the buffers, provided that the limbs to be removed are less than three (3) inches in diameter."



	No.	Date	Revision	By
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LANDSCAPE SPECIFICATIONS

WILDLIGHT SOUTH
STORAGE
NASSAU COUNTY
PREPARED FOR
SS STORAGE, LLC

LFRED B. PITTMAN, MLA, RLA
LA 1601
Reg. Landscape Architect

Project No.: 21-01-0034	
Designed: ABP	Drawn: ABP
Checked: JEW	O.C.: RCW
Date: SPETEMBER, 2021	
Scale: Custom	

Sheet L2

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Printed By: Printed:

- ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
LAWN AND IRRIGATION RULE:



1/2" Diameter rubber hose above first branch
 (2) Strands of 12 gauge wire
 3" Mulch (After Settlement)
 Earth saucer (6" x 12")
 Finish grade
 Existing subgrade
 2" x 4" x 8' Stake (Paint Dark Green)
 4'2" Minimum
 1'-5" MIN
 2'-4" Minimum
 6"
 1'
 Note: "Small" Trees are those with a caliper of less than 2 - 1/2". (Stake solitary palms only if necessary to maintain plumb)
 Planting soil mixture (See Specifications)
 Remove burlap from top 1/3 of rootball.
 2 x 4 Anchor Stake
 White Flag
 Rubber hose
 120°
 Root Ball
 Tree Pit

CW **Connelly & Wicker Inc.**
Planning • Engineering • Landscape Architecture
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 10060 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246
 (904) 256-3030 FAX: (904) 265-3031 www.cweng.com

No.	Date	Revision	By
1			
2			
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10			

WILDLIGHT SOUTH
STORAGE
NASSAU COUNTY
PREPARED FOR
SS STORAGE, LLC

ALFRED B. PITTMAN, M.L.A., R.L.A.
LA 1601
Reg. Landscape Architect

Project No.: 21-01-0034	
Designed: ABP	Drawn: ABP
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Sheet L3

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