

SITE INFORMATION					
JURISDICTION:		NASSAU COUNTY			
PARCEL IDENTIFICATION NO.:		44-2N-27-0000-0001-0410			
ZONING:		EAST NASSAU COUNTY PLANNING AREA (PD-ENCPA)			
OVERLAY DISTRICT		SR200 ACCESS MANAGEMENT OVERLAY DISTRICT & WILLIAM BURGESS MIXED USE ACTIVITY CENTER OVERLAY DISTRICT			
FLOOD ZONE CLASSIFICATION:		AREA OF MINIMUM FLOOD HAZARD (ZONE X)			
PROPOSED BUILDING HEIGHT		25'-9.5"			
PROPOSED BUILDING FFE		24.70'			
SETBACK & BUFFERS					
BUILDING SETBACKS			LANDSCAPE BUFFERS		
FRONT	N&W	15 FT (MAX)	FRONT	N&W	15 FT
REAR	S	5 FT	REAR	S	0 FT
SIDE	E	0 FT	SIDE	E	0 FT
SIDE	N/A	0 FT	SIDE	N/A	0 FT
PARKING LOT REQUIREMENTS					
MIN. PARKING PER CODE		ONE (1) PARKING SPACE FOR EVERY 400 SF GROSS FLOOR AREA			
MIN. PARKING REQUIRED		3463 SF GFA / 400 SF = 9 SPACES			
MAX. PARKING PER CODE		NONE SPECIFIED			
MAX. PARKING ALLOWED		NONE SPECIFIED			
MIN. DRIVE AISLE WIDTH			24 FT		
MAX. NO. OF PARKING BEFORE LANDSCAPE ISLAND				10	
MIN. LANDSCAPE ISLAND SIZE				10' (166 SF MIN AREA)	
MIN. SIDEWALK WIDTH			6 FT		
	MIN. REQUIRED		PROPOSED		
DRIVE-THRU STACK		NONE SPECIFIED		8	
BYPASS LANE		12'		13'	
PARKING PROPOSED					
SPACE TYPE		SIZE		NO. PROPOSED	
REGULAR		9' X 18'		30	
ACCESSIBLE		12' X 18' (WITH 5' AISLE)		2	
TOTAL				32	
SITE AREA CALCULATIONS					
SITE		±1.14 AC.		49,506 SQ. FT.	
PERVIOUS		±0.52 AC. (46%)		22,622 SQ. FT.	
IMPERVIOUS (ISR)		±0.62 AC. (54%)		26,884 SQ. FT.	
DISTURBED		±1.17 AC.		50,993 SQ. FT.	
		MAX ALLOWED		PROPOSED	
F.A.R.		1.0		0.08	
BASE INFORMATION					
NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 12089C0335F, DATED 12/17/2010.					
BASE CONDITIONS PROVIDED BY LARSON DESIGN GROUP, DATED 10/06/2023 (SEE SHEET C02.0 & C02.1).					

PROJECT CONTACTS			
SELLER/LANDLORD LOW COUNTRY LAND TRUST MR. SHAWN WOMER 1 SLEIMAN PKWY, SUITE 220 JACKSONVILLE, FL 32216 EMAIL: SWOMER@SLEIMAN.COM PHONE: (904) 731-8806x235	DEVELOPER JLL IN PARTNERSHIP WITH JP MORGAN CHASE MS. MALLORY DELUCA LAQUIERE 659 CRANBROOK DRIVE KIRKWOOD, MO 63122 EMAIL: MALLORY.DELUCA@JPMCHASE.COM PHONE: (561) 382-3577	CIVIL ENGINEER INGENIUM ENTERPRISES, INC. MR. ERIK HOUSTON 5991 PARKWAY NORTH BLVD, SUITE A CUMMING, GEORGIA 30040 EMAIL: JACY@WAS-DESIGN.COM EHOUSTON@INGENIUMENTERPRISES.COM PHONE: (770) 437-8850	LANDSCAPE ARCHITECT WAS DESIGN MR. JARED L. ACY ADDRESS: 1510 N. STATE STREET, #300 JACKSON, MS 39202 EMAIL: JACY@WAS-DESIGN.COM PHONE: (601) 790-0781
ARCHITECT/MEP BDG ARCHITECTS MS. ANGELA PELLET DICE 400 NORTH ASHLEY DRIVE, SUITE 600 TAMPA, FLORIDA 33602 EMAIL: ANGELA.PELLETT@BDGLLP.COM PHONE: (813) 323 9233 X262	IRRIGATION ENGINEER HINES, INC. MS. SHARON HINES 659 CRANBROOK DRIVE KIRKWOOD, MO 63122 EMAIL: SHARON@HINESINC.COM PHONE: (970) 282-1800	LAND SURVEYOR LARSON DESIGN GROUP MR. TIM JASKIEWICZ 485 N KELLER RD, SUITE 101 MAITLAND, FL 32751 WEBSITE: LARSONDESIGNGROUP.COM PHONE: (689) 229-2485	SITE LIGHTING BDG ARCHITECTS MS. ELENA TISMANARIU 400 NORTH ASHLEY DRIVE, SUITE 600 TAMPA, FLORIDA 33602 EMAIL: ELENA.TISMANARIU@BDGLLP.COM PHONE: (754) 423-6653
SIGNAGE BDG ARCHITECTS MS. ELENA TISMANARIU 400 NORTH ASHLEY DRIVE, SUITE 600 TAMPA, FLORIDA 33602 EMAIL: ELENA.TISMANARIU@BDGLLP.COM PHONE: (754) 423-6653	WATER/SEWER JACKSONVILLE ELECTRIC AUTHORITY MR. JOE PEREZ 21 CHURCH ST. W JACKSONVILLE, FL 32202 EMAIL: PEREJL@JEA.COM PHONE: (904) 655-6000	WATER MANAGEMENT DISTRICT ST JOHN'S RIVER WATER MANAGEMENT DISTRICT MS. CARMEN A. GOMEZ P.O. BOX 1429 PALATKA, FL 32178-1429 PHONE: (904) 448-7936 EMAIL: CAGOMEZ@SJRWMD.COM	ELECTRIC FLORIDA POWER AND LIGHT 56905 GRIFFIN RD CALLAHAN, FL 32011 PHONE: (800) 778-9140
GAS FLORIDA PUBLIC UTILITIES COMPANY MR. ROGER FREEZE PHONE: (863) 289-2487	TELEPHONE/CABLE/FIBER AT&T 488352 SR-200 YULEE, FL 32097 PHONE: (904) 274-4003	FIRE NASSAU COUNTY FIRE RESCUE 96160 NASSAU PL. YULEE, FL 32097 PHONE: (904) 530-6600	PLANNING NASSAU COUNTY DEVELOPMENT DEPARTMENT MR. ANDREW PROKOPIAK PHONE: (904) 530-6300

SITE DEVELOPMENT PLANS FOR:

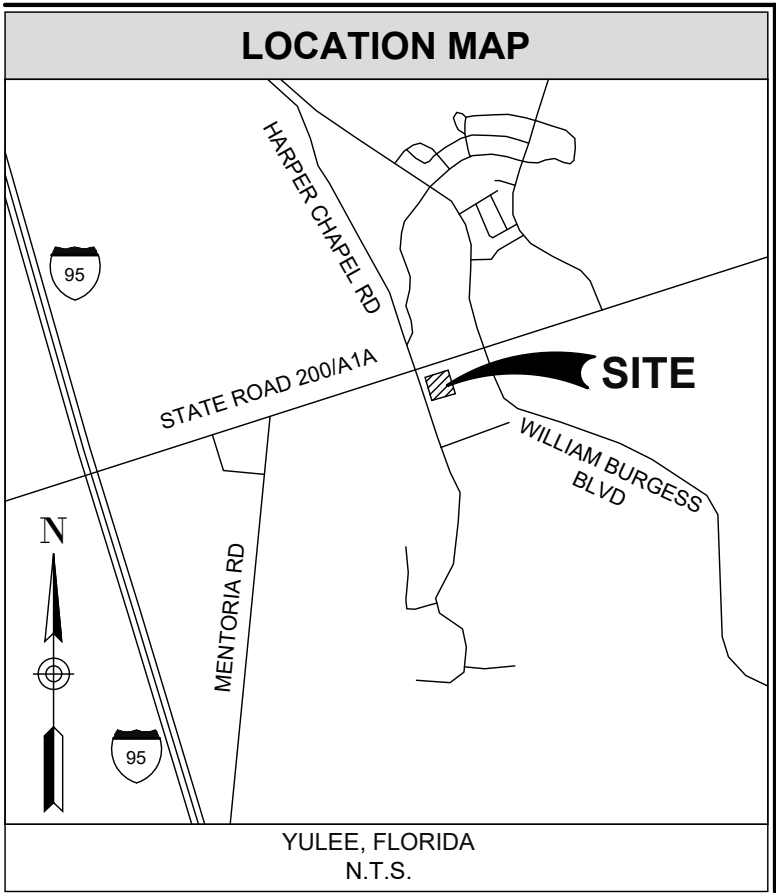
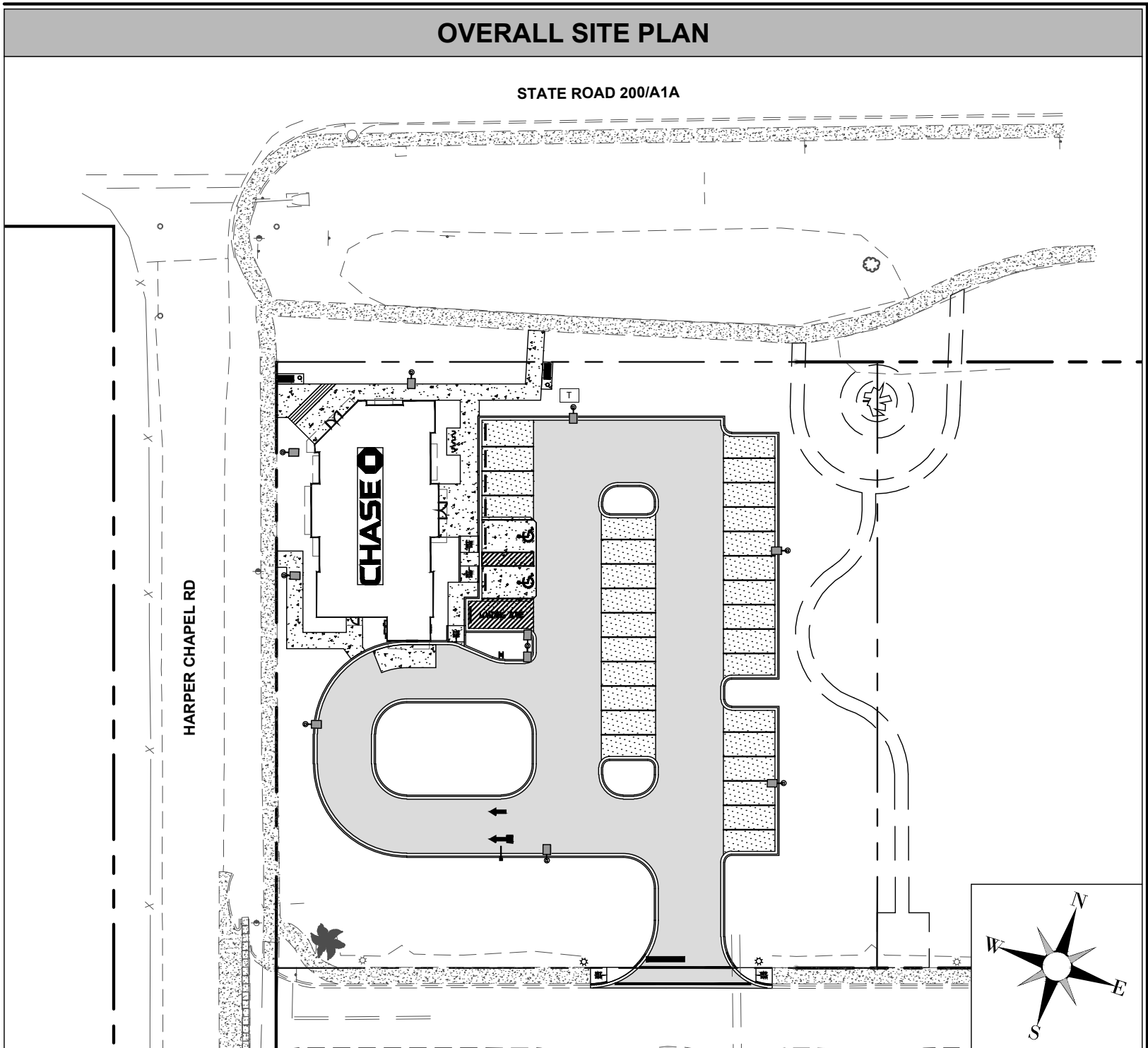
JPM CHASE RETAIL BANKING CENTER SR-200(A1A) & HARPER CHAPEL RD YULEE, FLORIDA 32097 NASSAU SECTION 44, TOWNSHIP 2 NORTH, RANGE 27 EAST

PREPARED BY:



PREPARED FOR:

BDG ARCHITECTS
400 NORTH ASHLEY DRIVE,
SUITE 600
TAMPA, FLORIDA 33602
PHONE: 813-323-9233

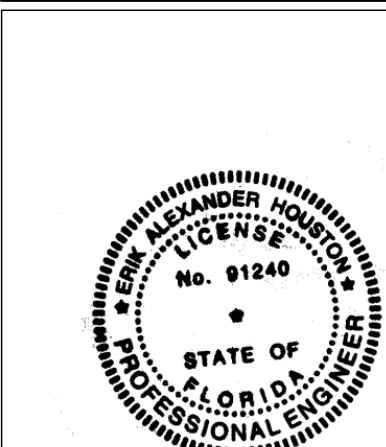


SHEET INDEX																					
NO.	TITLE	ISSUE 03 - PERMIT SET	04/22/2024	ISSUE 04 - PERMIT SET	06/04/2024	ISSUE 05 - PERMIT SET	06/11/2024	ISSUE 06 - PERMIT SET	06/17/2024	ISSUE 07 - PERMIT SET	06/26/2024	ISSUE 08 - PERMIT SET	07/10/2024	ISSUE 09 - PERMIT SET	07/29/2024	ISSUE 10 - PERMIT SET	08/02/2024	ISSUE 11 - PERMIT SET	REV 01 - 08/02/2024	ISSUE 12 - PERMIT SET	REV 02 - 01/07/2025
C01.0	COVER SHEET	●		●		●		●		●		●		●		●		●		●	
C01.1	GENERAL NOTES	●		●		●		●		●		●		●		●		●		●	
C02.0*	ALTA/ACSM SURVEY I (BY OTHERS)	●		●		●		●		●		●		●		●		●		●	
C02.1*	ALTA/ACSM SURVEY II (BY OTHERS)	●		●		●		●		●		●		●		●		●		●	
C02.2	DEMOLITION PLAN	●		●		●		●		●		●		●		●		●		●	
C03.0	SITE PLAN	●		●		●		●		●		●		●		●		●		●	
C03.1	STAKING PLAN	●		●		●		●		●		●		●		●		●		●	
C03.2	HARDSCAPE DETAILS I	●		●		●		●		●		●		●		●		●		●	
C03.3	HARDSCAPE DETAILS II	●		●		●		●		●		●		●		●		●		●	
C03.4	HARDSCAPE DETAILS III	●		●		●		●		●		●		●		●		●		●	
C03.5	HARDSCAPE DETAILS IV	●		●		●		●		●		●		●		●		●		●	
C04.0	UTILITY PLAN	●		●		●		●		●		●		●		●		●		●	
C04.1	UTILITY DETAILS I	●		●		●		●		●		●		●		●		●		●	
C04.2	UTILITY DETAILS II	●		●		●		●		●		●		●		●		●		●	
C04.3	UTILITY DETAILS III	●		●		●		●		●		●		●		●		●		●	
C04.4	PIPE PROFILES I	●		●		●		●		●		●		●		●		●		●	
C04.5	PIPE PROFILES II	●		●		●		●		●		●		●		●		●		●	
C05.0	GRADING AND DRAINAGE PLAN	●		●		●		●		●		●		●		●		●		●	
C05.1	BUILDING AREA GRADING PLAN	●		●		●		●		●		●		●		●		●		●	
C06.0	SWPPP PLAN	●		●		●		●		●		●		●		●		●		●	
C06.1	ESPC PLAN - CLEARING PHASE	●		●		●		●		●		●		●		●		●		●	
C06.2	ESPC PLAN - GRADING PHASE	●		●		●		●		●		●		●		●		●		●	
C06.3	ESPC PLAN - FINAL PHASE	●		●		●		●		●		●		●		●		●		●	
C06.4	ESPC DETAILS I	●		●		●		●		●		●		●		●		●		●	
C06.5	ESPC DETAILS II	●		●		●		●		●		●		●		●		●		●	
C06.6	ESPC DETAILS III	●		●		●		●		●		●		●		●		●		●	
C06.7	ESPC DETAILS IV	●		●		●		●		●		●		●		●		●		●	
C06.8	ESPC DETAILS V	●		●		●		●		●		●		●		●		●		●	
C06.9	ESPC DETAILS VI	●		●		●		●		●		●		●		●		●		●	
IR100*	IRRIGATION PLAN					●				●				●				●			
IR200*	IRRIGATION DETAILS					●				●				●				●			
IR201*	IRRIGATION DETAILS					●				●				●				●			
LP100*	LANDSCAPE PLANTING PLAN	●		●						●				●				●			
LP500*	LANDSCAPE PLANTING DETAILS	●		●						●				●				●			
LP501*	LANDSCAPE PLANTING DETAILS	●		●						●				●				●			
LP502*	LANDSCAPE PLANTING DETAILS					●								●				●			
E1.1*	PHOTOMETRIC SITE PLAN	●		●		●		●		●		●		●		●		●		●	
*SHEETS DENOTED WITH AN ASTERISK ("**") ARE NOT INCLUDED IN THE DIGITAL/ELECTRONIC SEAL OF THE CIVIL ENGINEER (ERIK HOUSTON, P.E.) AND ARE INCLUDED FOR REFERENCE PURPOSES ONLY.																					

JE A AVAILABILITY #2023-1721

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FEATURES, INCLUDING BUT NOT LIMITED TO, UTILITIES, EXISTING IMPROVEMENTS, ETC. CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY

THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON, DATED 02/06/2024 AND ANY SUBSEQUENT ADDENDUMS IS CONSIDERED PART OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REPORT'S RECOMMENDATIONS AND FINDINGS WITH THE OWNER, ENGINEER AND ARCHITECT PRIOR TO CONSTRUCTION. IMPLEMENTATION OF THE REPORT'S RECOMMENDATIONS MAY REQUIRE THE CONTRACTOR TO PERFORM ADDITIONAL WORK NOT SHOWN ON THE CIVIL PLANS INCLUDING BUT NOT LIMITED TO EXCAVATION, REMEDIATION, DEWATERING, COMPACTION ETC.



Digitally signed by Erik Houston
DN: cn=Erik Houston, c=US,
email=erik.houston@ingeniumenterprises.com
Reason: I am the author of this document
Date: 2025.01.07 16:53:05 -0500

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ERIK HOUSTON ON THE DATE ADJACENT TO THE SEAL USING A SHA AUTHENTICATION CODE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



24-HOUR CONTACT:
RICK CAHILL
813-494-6736



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5991 PARKWAY NORTH BLVD.
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PHONE: (770) 437-8850

FBPE CERT. OF AUTHORITY #8370



WILDLIGHT
JPM Chase Retail Banking Center
SR-200(A1A) & HARPER CHAPEL RD
YULEE, FLORIDA 32097

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SEAL

ISSUE/BY	DATE	DESCRIPTION
1	01-12-20-2024	COUNTY SUBMITTAL
2	01-07-2025	COUNTY SUBMITTAL

PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

COVER SHEET

SHEET NUMBER

C01.0

ISSUE FOR PERMIT



INGENIUM ENTERPRISES, INC
5991 PARKWAY NORTH BLVD.
SUITE A
CUMMING, GEORGIA 30040
PHONE: (770) 437-8850
FBPE CERT. OF AUTHORITY #8370



WILDLIGHT
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SR-200(A1A) & HARPER CHAPEL RD
YULEE, FLORIDA 32097

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1 01	12-20-2024	COUNTY SUBMITTAL
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DATE:	08-02-2024
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INGENIUM PROJECT #	230066
SHEET TITLE	

GENERAL NOTES

SHEET NUMBER

C01.1

ISSUE FOR PERMIT

GENERAL NOTES

- INGENIUM ENTERPRISES, INC. (IE) REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLUDED IN ANY FILE OR DRAWING OR OTHER DOCUMENT THAT IE PROVIDES DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE CONTENTS IN THESE FILES ARE SUBJECT TO CHANGE WITHOUT NOTICE AND WITHOUT NOTICE, AND SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF IE. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS CONTRACT ARE THE PROPERTY OF IE. ANY INFORMATION REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF IE.
2. DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR WRITTEN CONSENT OF THE OWNER, HIS REPRESENTATIVE, OR THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE ENTIRE SCOPE OF THE PROJECT. ANY OMISSIONS OR ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED. THIS INCLUDES ALL STRIPING AND SIGNAGE.
3. COMPLIANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE OWNER TO CONDUCT CONSTRUCTION OF THE PROJECT SHALL BE LIMITED TO THE PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR THE ERECTION OF SAFETY BARRICADES, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS REQUIREMENTS AND SAFETY REGULATIONS.
4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION, MEANS, METHODS, TECHNIQUES, OR UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, STATE, AND FEDERAL CERTIFICATION AND LICENSING REQUIREMENTS FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO LAND DISTURBANCE PERMITS, BUILDING PERMITS, EROSION CONTROL PERMITS, NPDES PERMITS, DEVIATING PERMITS, ETC.

GRADING & DRAINAGE NOTES

2. SEE LANDSCAPE PLAN FOR REQUIRED TREES AND GROUND COVER.
3. MINIMUM OF SURFACE GRADE SHALL BE A MINIMUM OF 1.00%.
4. MAXIMUM CUT OF FILL SLOPES IS 2H:1V.
5. THE CONTRACTOR SHALL PROVIDE CLEAN, SUITABLE MATERIAL FOR REQUIRED FILL. PROVIDE A SUFFICIENT QUANTITY OF MATERIAL TO BE AVAILABLE FROM THE REQUIRED EXCAVATION ON THE SITE.
6. ALL FILL SHOULD BE PLACED IN THIN, HORIZONTAL LAYERS (LIFTS OF 6" TO 8") TO MEET THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE UPPER 8 INCHES OF SOIL BENEATH PAVEMENTS AND SLAB-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 100 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. A STATE REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF PAVEMENTS, CURBS, SIDEWALKS OR ANY OTHER TYPE OF PAVEMENT.
7. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE FULLY CONSTRUCTED AND MAINTAINED UNTIL THE END OF THE CONSTRUCTION OR GRADING ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
8. LENGTH OF RIP-RAP PADS AT PIPE OUTLET STRUCTURES TO BE A MINIMUM LENGTH OF 6' SIX TIMES THE DIAMETER OF THE PIPE.
9. JURISDICTIONAL LAND DISTURBANCE PERMIT MUST BE OBTAINED FOR ALL SITES WHERE CONSTRUCTION AND LAND CLEARING IS IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.

GENERAL DEMOLITION NOTES

1. ALL ITEMS TO BE PROTECTED SHALL BE PROTECTED THROUGHOUT ALL THE PHASES OF CONSTRUCTION UNTIL FINAL ACCEPTANCE.
2. CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS WITH ALL DEMOLITION ACTIVITIES IF ADDITIONAL REQUIREMENTS ARE REQUIRED FOR ASBESTOS, LEAD, PCB'S, AND/OR OTHER HAZARDOUS MATERIALS, ASBESTOS, SEPTIC FIELDS, LEAD, PCB, TPC, OR OTHER WASTE OR CONTAMINANT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL MANDATES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. CONTRACTORS SHALL COORDINATE WITH ALL UTILITY COMPANIES CONCERNING THE ABANDONMENT, RELOCATION, OR PROTECTION OF ALL UTILITIES PRIOR TO ANY DEMOLITION. NO WORK IS TO BE PERFORMED ON LIVE LINES UNLESS APPROVED IN WRITING BY THE UTILITY IN ALL CASES. A CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR INITIAL ABANDONMENT AND/OR LIVE CUTS. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR UTILITIES AND SHALL PROTECT THEM AT ALL TIMES.
4. CONTRACTOR TO RESUBMIT FOR PROCUREMENT OF ALL NECESSARY PERMITS.
5. DEMOLITION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND PRIVATE UTILITY REQUIRED TO ADEQUATELY ABANDON ITEMS AS INDICATED ON THE PLANS.
6. RELOCATION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND PRIVATE UTILITY REQUIRED TO ADEQUATELY RELOCATE, AND INSTALL NEW ITEMS AS INDICATED ON THE PLANS.
7. ABANDONMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND PRIVATE UTILITY REQUIRED TO ADEQUATELY ABANDON ITEMS AS INDICATED ON THE PLANS.
8. THE CONTRACTOR SHALL COORDINATE ALL TREE AND LANDSCAPE REMOVAL WITH THE LANDSCAPE PLANS. ANY DISCREPANCY BETWEEN THIS DEMOLITION PLAN AND THE LANDSCAPE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
9. THE CONTRACTOR IS FULLY AND COMPLETELY RESPONSIBLE FOR LOCATION, VERIFICATION, PROTECTION, STORAGE, AND DEMOLITION OF EXISTING UTILITIES, RELOCATION OR ALTERATION OF ALL EXISTING SITE UTILITIES, SITE IMPROVEMENTS, STRUCTURES, OR CONSTRUCTION ELEMENTS AS REQUIRED TO COMPLETE THE WORK THAT ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WHETHER CONSPICUOUSLY VISIBLE OR NOT. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING UTILITIES, STRUCTURES, AND SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
10. THIS DEMOLITION PLAN IS FOR GRAPHICAL REFERENCE ONLY. ITEMS NOT SHOWN ON THIS PLAN ARE ASSUMED TO BE PROTECTED, RELOCATED, OR ABANDONED BY THE CONTRACTOR. EXISTING FIELD VERIFYING THE LOCATIONS OF ALL EXISTING STRUCTURES, UTILITIES, AND APPURTENANCES AND RECORDING THE RESULTS OF THE VERIFICATION IS INCLUDED, BUT IS NOT LIMITED TO THE ITEMS SHOWN ON THIS PLAN. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN REMOVING ANY ITEM, STRUCTURE, OR OVERHEAD UTILITY, EVEN WHEN IT IS NOT NECESSARILY INDICATED ON THE PLAN.
12. SAWCUT DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL STAGE AND CONSULT ENGINEER TO VERIFY PRIOR TO CONSTRUCTION.
13. CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION. ANY ITEMS NOT NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

GENERAL SITE NOTES

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS AND TREES AND OTHER DEBRIS TO A DEEP LIMIT SHALL BE THE CONTRACTOR'S RESPONSIBILITY. REMOVAL OF TREES AND OTHER DEBRIS WILL NOT BE ALLOWED. THERE ARE NO KNOWN INERT BURRY PITS ON THE SITE AND NONE WILL BE ALLOWED DURING CONSTRUCTION OF THE PROJECT.
2. ALL WORK SHALL COMPLY WITH NASSAU COUNTY, STATE OF FLORIDA, AND FEDERAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
3. ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE PROJECT. ALL WORK SHALL BE IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
4. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE SPECIFICALLY ALLOWED BY THE OWNER.
5. ALL WORK PERFORMED ON CITY, COUNTY, AND/OR STATE OR FEDERAL RIGHT-OF-WAY SHALL BE IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE PROJECT. ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND SPECIFICATIONS: CURRENT EDITION.
6. BASE COURSE MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE FOLLOWING STANDARDS AND SPECIFICATIONS: CURRENT EDITION.
7. ALL BUILDING DIMENSIONS SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
8. PHOTO METRIC DESIGNED BY OTHERS. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL ENSURE 100% COVERAGE OF ALL LANDSCAPED AREAS WITHIN LIMITS OF WORK, INCLUDING THE EXISTING DRIVEWAY. THE COVERAGE SHALL INCLUDE BOTH LANDSCAPING AND IRRIGATION.

DEFINITIONS

"ISSUED FOR PERMITTING"
DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S)
HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL.
DRAWINGS ARE NOT INTENDED FOR PRICING, BID, OR
CONSTRUCTION.

"NOT ISSUED FOR CONSTRUCTION"
DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S)
HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL.
DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION.

"ISSUED FOR CONSTRUCTION"
DRAWINGS ARE INTENDED FOR PRICING, BID, AND/OR
CONSTRUCTION.

"RIM"

1. THROAT OR GRATE ELEVATION FOR CURB INLETS.
2. TOP OF STRUCTURE FOR JUNCTION BOXES/OCs.
3. TOP OF STRUCTURE FOR SANITARY MANHOLES AND CLEANOUTS.

"M.E." (MATCH EXISTING ELEVATION)
IF A ELEVATION IS GIVEN, THEN THE ELEVATION IS INTERPOLATED
BY THE EXISTING SURFACE PROVIDED BY THE SURVEYOR AND
SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION. CONTRACTOR
SHALL ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

"M.F.E" (MATCH FUTURE ELEVATION)
IF A ELEVATION IS GIVEN, THEN THE ELEVATION IS PROVIDED IS
CONSIDER THE DESIGNED ELEVATION PROVIDED BY THE
DEVELOPER'S ENGINEER. THE ELEVATION SHALL BE FIELD VERIFIED
PRIOR TO CONSTRUCTION BY THE CONTRACTOR AND ALERT THE
ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

BUILDING AREA NOTES

1. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION; i.e. IN TIMES OF RAIN OR MUD, ROADS SHALL BE PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED STONE BASE ETC... WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS HAVING SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 1141 3-1).
2. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDING.

GENERAL STAKING NOTES

1. ALL RADII ARE 3.0' UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE MEASURED TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL SITE LIGHTING POLE DIMENSIONS ARE TO THE CENTERLINE OF THE POLE, UNLESS OTHERWISE NOTED.
4. STAKING OF STRIPING IS TO THE CENTERLINE OF THE STRIPE, UNLESS OTHERWISE NOTED.



GENERAL UTILITY NOTES



















2. SEE MEP PLANS FOR CONTINUATION OF ALL UTILITIES INTO BUILDING.
3. ALL UTILITIES SHALL HAVE A MINIMUM FALL OF 1.00%.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND THEIR LOCATIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES
5. THE FINAL LOCATION OF FIRE HYDRANTS, VALVES, WATER LINES, BACKFLOW PREVENTERS, ETC. SHALL BE DETERMINED BY THE CONTRACTOR. ANY CHANGES TO THE LOCATION OF ANY UTILITIES, CHANGES TO LOCATION OR CONFIGURATION, NFPA CODES SHALL BE ADHERED TO.
6. CONTRACTOR SHALL CONTACT PUBLIC UTILITIES INSPECTIONS AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
7. ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH LOCAL GOVERNING CODES.
8. CONTRACTOR TO SUPPLY CONDUIT MATERIAL FOR ELECTRIC, TELEPHONE, AND CABLE. SHALL BE INSTALLED PER UTILITY PROVIDER REQUIREMENTS.
9. CONTRACTOR TO BUILD CONCRETE TRANSFORMER PAD AND INSTALL SCHEDULE 80 PVC CONDUIT AND PULL STRING WITH SWEEPING BENDS.
10. CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.
11. CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF ALL DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
12. CONTRACTOR SHALL INSTALL GENERAL UTILITY CONDUITS TO ALL BUILDING AREAS AT A MINIMUM 18" TO 24" DEPTH. SEE ARCHITECTURAL/MEP PLANS FOR CONTINUATION.

ABBREVIATIONS

ASPH	=	ASPHALT
BC	=	BOTTOM OF CURB
BFP	=	BACKFLOW PREVENTER
C&G	=	SURFACE DIRT GRADE ELEVATION AT BOTTOM OF WALL
C&G	=	CURB AND GUTTER
C.B.	=	CHORD BEARING
CB	=	CATCH BASIN
CF	=	CUBIC FEET
CL	=	CENTERLINE
CMP	=	CORRUGATED METAL PIPE
Co	=	GENERAL CLEAN OUT
CONC.	=	CONCRETE
CW	=	COLD WATER SUPPLY
CY	=	CUBIC YARD
DOT	=	DEPARTMENT OF TRANSPORTATION
DI	=	DROP INLET
DS	=	DOWN SPOUT
DIP	=	DUCTILE IRON PIPE
E	=	EAST
EL	=	ELEVATION
EGL	=	ENERGY GRADE LINE
EXIST.	=	EXISTING
FDC	=	FIRE DEPARTMENT CONNECTION
FES	=	FLARED END SECTION
FFE	=	FINISH FLOOR ELEVATION
FH	=	FIRE HYDRANT
GC	=	GENERAL CONTRACTOR
GSF	=	GROSS SQUARE FOOT
GT	=	GREASE TRAP
GV	=	GATE VALVE
HDPE	=	HIGH DENSITY POLYETHYLENE
HGL	=	HYDRAULIC GRADE LINE
HW	=	HOT WATER SUPPLY
IA	=	INTERNAL ANGLE
INV	=	INVERT
IRR	=	IRRIGATION
L	=	LENGTH OF CURVE
L.C.	=	LENGTH OF CHORD
LFEE	=	LOWER FINISH FLOOR ELEVATION
LP	=	LIGHT POLE/FIXTURE
LS	=	LANDSCAPE
M.E.E	=	MATCH EXISTING ELEVATION
M.F.E	=	MATCH FUTURE ELEVATION
MH	=	MANHOLE
N	=	NORTH
NTS	=	NOT TO SCALE
PC	=	POINT OF CURVATURE
PI	=	POINT OF INTERSECTION
PIV	=	POST INDICATOR VALVE
PROPOSED	=	PROPOSED
PT	=	POINT OF TANGENCY
PVC	=	POLYVINYL CHLORIDE PIPE
R	=	RADIUS OF CURVE
RCF	=	REINFORCED CONCRETE PIPE
RD	=	ROOF DRAIN
R/W	=	RIGHT-OF-WAY
S	=	SOUTH
SF	=	SQUARE FEET
SSE	=	SANITARY SEWER EASEMENT
STD	=	STANDARD
SY	=	SQUARE YARD
T	=	TANGENT OF CURVE LENGTH
TC	=	TOP OF CURB
TB	=	THRUST BLOCKING
TW	=	TOP OF WALL
TYP.	=	TYPICAL
W	=	WEST
WM	=	WATER METER
W.S.	=	WATER SURFACE
W.S.E.	=	WATER SURFACE ELEVATION
YR	=	YEAR

PROPOSED LEGEND

GENERAL	LINETYPE/SYMBOL
RIGHT-OF-WAY / PROPERTY LINE	_____
CENTERLINE	_____
LIMITS OF CONSTRUCTION	_____ LOC _____
LIMITS OF GRADING / DISTURBANCE	_____ LOD _____
DETAIL REFERENCE	
ADDENDUM AND/OR REVISION REFERENCE	
SITE / HARDSCAPE	LINETYPE/SYMBOL
CHAIN LINK FENCE	_____
RETAINING WALL	_____
SCREEN WALL / DUMPSTER ENCLOSURE	_____
CURB & GUTTER	_____
HEADER CURB	_____
CONCRETE SIDEWALK	_____

UTILITIES	LINE TYPE/SYMBOL
DOMESTIC WATER LINE	— DW — DW —
FIRE WATER LINE	— FW — FW —
BUILDING FIRE SPRINKLER LINE	— FWS — FWS —
IRRIGATION WATER LINE	— IRR — IRR —
DOMESTIC WATER METER (WM)	—  —
IRRIGATION METER (IRR)	—  —
BACKFLOW PREVENTER (RPZ)	—  —
DC BACKFLOW PREVENTER	—  —
FIRE VAULT (DDC)	—  —
WATER TAP OR TEE	—  —
GATE VALVE (GV)	—  GV
THRUST BLOCK (TB)	—  TB
FIRE HYDRANT (FH)	—  FH
FIRE DEPARTMENT CONNECTION (FDC)	—  FDC
SANITARY SEWER (SS)	— SS — SS —
GREASE TRAP VENT LINE (GTV)	— GTV — GTV —
SANITARY MANHOLE (SSMH)	—  —
GENERAL CLEAN OUT (Co)	—  —
SANITARY STRUCTURE NUMBER	—  —
UNDERGROUND ELECTRIC LINE-PRIMARY	— UGE-P — UGE-P —
UNDERGROUND ELECTRIC LINE-SECONDARY	— UGE-S — UGE-S —
POST INDICATOR VALVE	—  —
SITE LIGHTING POLE	—  —
TRANSFORMER PAD	—  —
METER/CT PEDESTAL	—  —
UNDERGROUND TELEPHONE LINE	— UGT — UGT —
GENERAL UTILITY CONDUIT	— GU — GU —
GAS LINE	— G — G —
GAS METERS	—  —

** ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS.

EXISTING CONDITIONS LEGEND

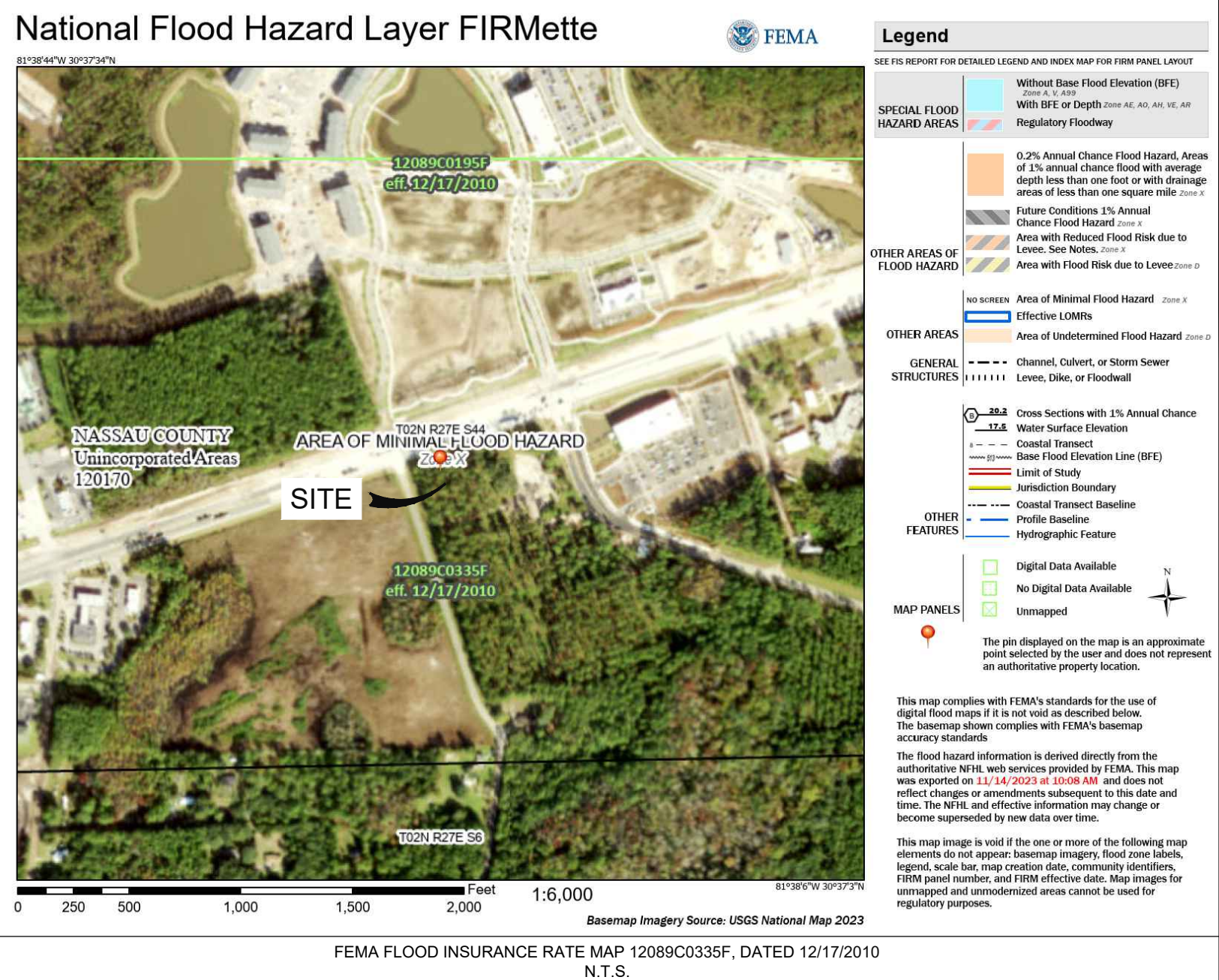
DESCRIPTION	SYMBOL
COMMUNICATION LINES	— COM —
DATA LINES	— DAT —
ELECTRICAL LINES (OVERHEAD)	— OH ELE —
ELECTRICAL LINES (UNDERGROUND)	— UG ELE —
ELECTRICAL & TV LINES (OVERHEAD)	— OH E/TV —
ELECTRICAL & TELEPHONE LINES (OVERHEAD)	— OH E/TEL —
FIBER LINES	— FIBER —
GENERAL UTILITY LINES	— GEN —
GAS LINES	— GAS —
REUSE WATER LINES	— REUSE —
SANITARY SEWER LINES	— SAN —
SANITARY SEWER FORCE MAIN LINES	— SAN FM —
TV LINES (OVERHEAD)	— OH TV —
TV LINES (UNDERGROUND)	— UG TV —
TELEPHONE LINES (OVERHEAD)	— OH TEL —
TELEPHONE LINES (UNDERGROUND)	— UG TEL —
TELEPHONE & TV LINES (OVERHEAD)	— OH T/TV —
TELEPHONE & TV LINES (UNDERGROUND)	— UG T/TV —
UNKNOWN UTILITY LINES	— UNK —
WETLANDS	— WET —
WATER LINES	— WAT —

ESPC / BMP

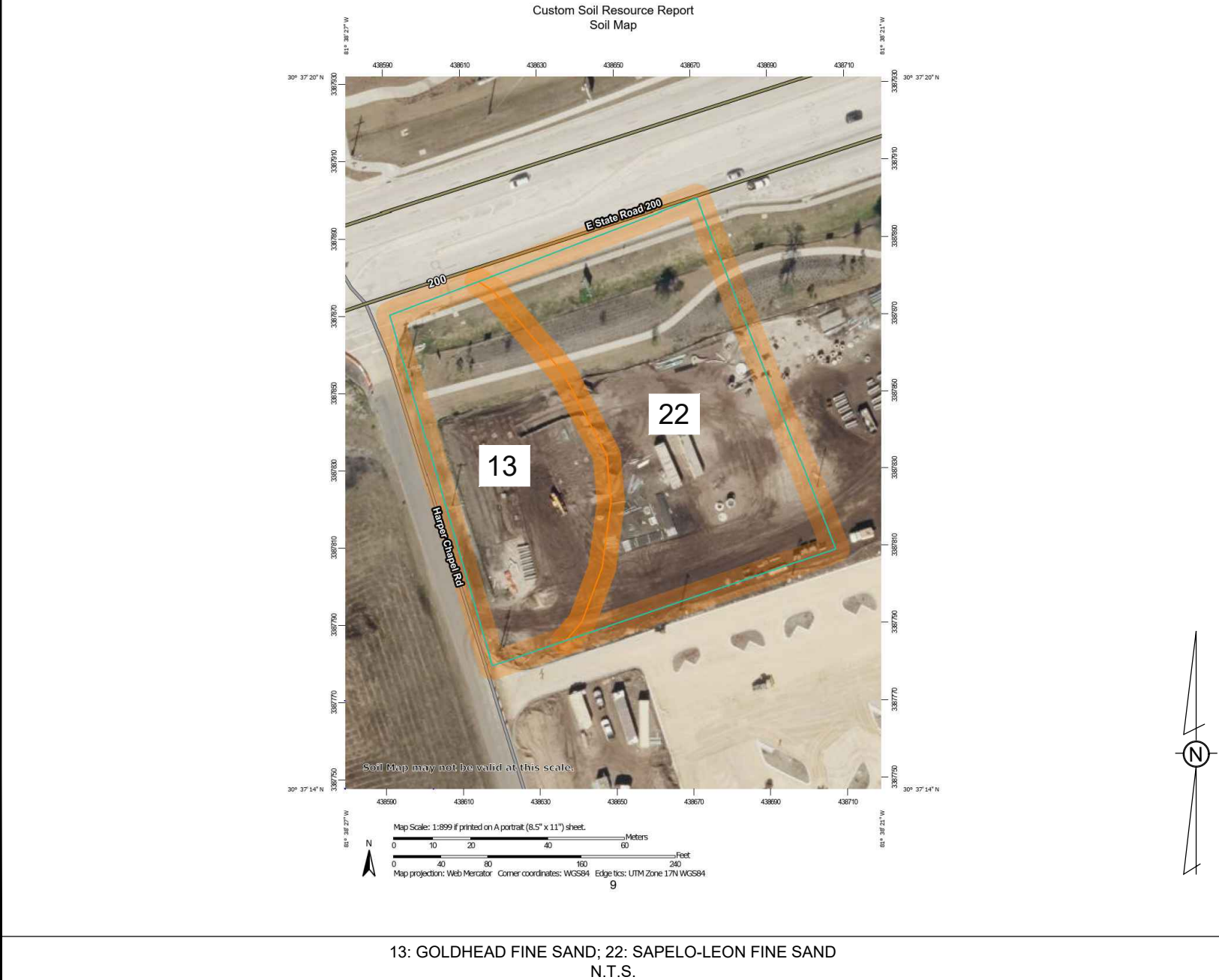
CONSTRUCTION EXITS (CX)	
SILT FENCE - TYPE C (SF)	
SILT FENCE - TYPE C DOUBLE (SF)	
INLET PROTECTION (IP)	
OUTLET PROTECTION (OP)	
DUST CONTROL-DISTURBED AREAS	
TEMPORARY SEEDING	
PERMANENT SEEDING	
MULCHING	
SODDING	
SLOPE STABILIZATION	
TREE PROTECTION	

LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS

FLOOD INSURANCE RATE MAP FIRMETTE



SOILS MAP



ALTA/NSPS LAND TITLE SURVEY

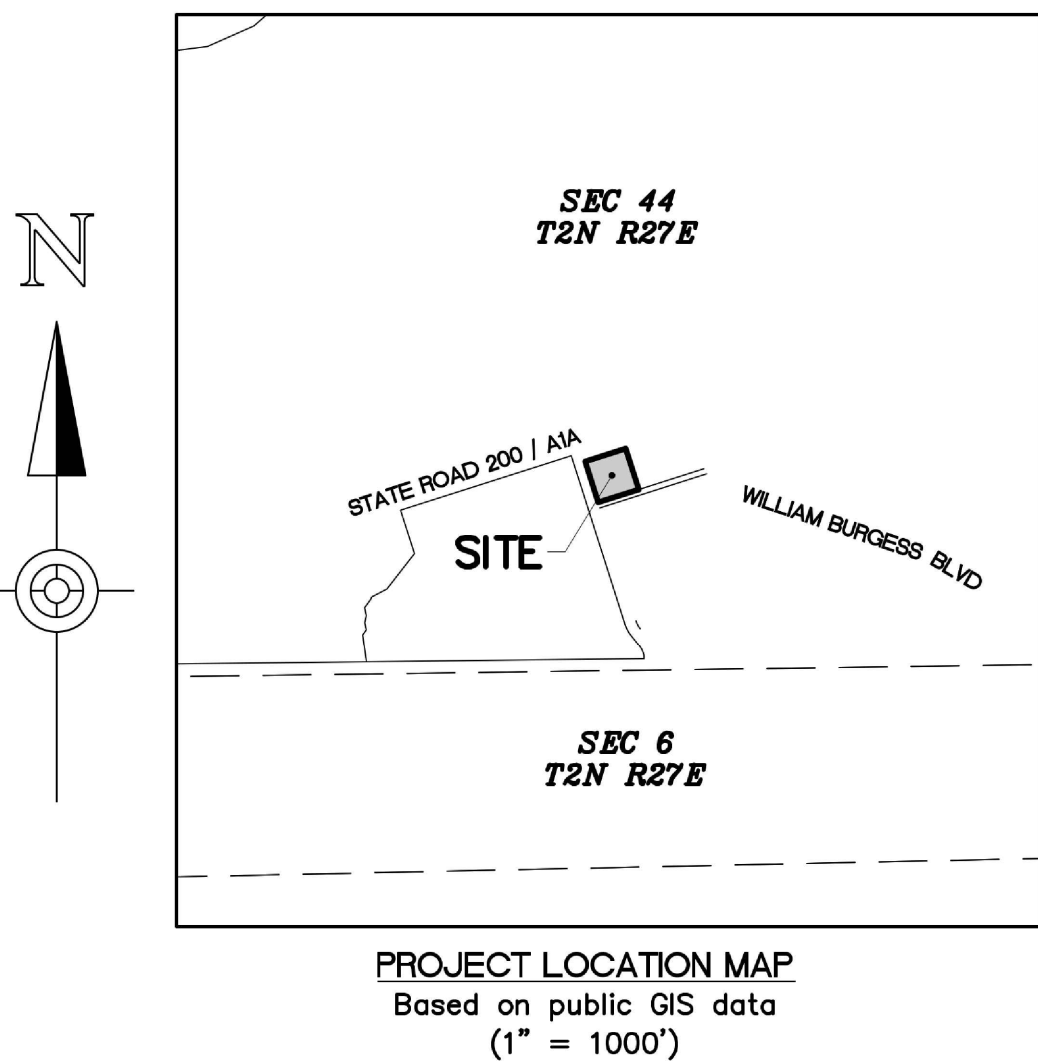
Yulee Wildlight Outparcel B-4

LOCATED IN

SECTION 44, TOWNSHIP 2 NORTH, RANGE 27 EAST
UNINCORPORATED YULEE, NASSAU COUNTY, FLORIDA

FOR THE BENEFIT OF:

Ingenium Enterprises, LLC



PROJECT LOCATION MAP
Based on public GIS data
(1" = 1000')

ZONING REQUIREMENTS

Zoning District - East Nassau Community Planning Area (PD-ENCPA) and SR200 Access and William Burgess Mixed Use Activity Center Overlay
All of the following requirements have been obtained from the CODE OF ORDINANCES OF NASSAU COUNTY, FLORIDA, Appendix A, Articles 27, 35, & 43 (enacted June 26, 2023).

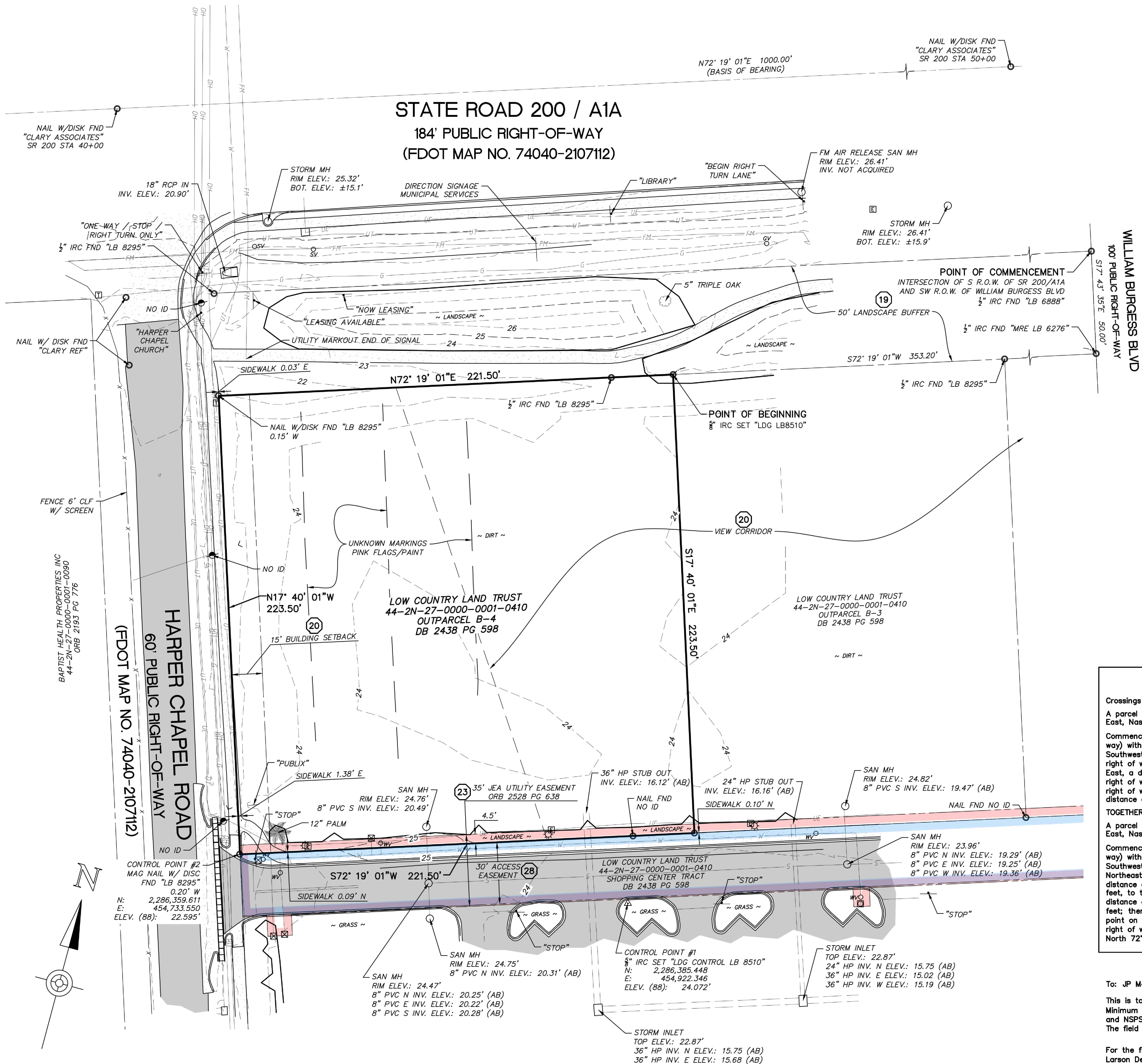
Minimum Lot Requirements
Per Preliminary Development Plan
SR200 Access Overlay:
Minimum Lot Width (frontage) 250 feet
Minimum Lot Width (rear) 225 feet
Minimum Lot Depth 200 feet

Yard Setback Requirements:
Per Preliminary Development Plan
Along SR 200/A1A setbacks shall be increased by 25 feet; this requirement may be waived by the Development Review Committee upon review of the proposed development plans

Maximum Height of Structures:
Per Preliminary Development Plan

LEGEND

PROPOSED PROPERTY BOUNDARY	ADJACENT PROPERTY BOUNDARY
RIGHT-OF-WAY LINE	EASEMENT LINE
CENTER LINE OF ROAD	BUILDING SETBACK
BUILDING LINE	FENCE LINE
EDGE OF PAVEMENT	EDGE OF GRAVEL/STONE/SPOIL PILE
CONCRETE CURB	CONCRETE/SIDEWALK
BRICK PAVERS	BITUMINOUS PAVEMENT
BENCHMARK	IRON ROD/PIN
MONUMENT	DECIDUOUS TREE
PINE TREE	PALM TREE
DITCH/SWALE	DRAINAGE LINE, MANHOLE & CB
SANITARY SEWER & MANHOLE	WATER MAIN, VALVE, & METER
SEWER FORCE MAIN	GAS MAIN & VALVE
UNDERGROUND ELECTRIC	UNDERGROUND CABLE TV
OVERHEAD UTILITIES, GUY, & POLE	UNDERGROUND TELEPHONE
BEARING/DISTANCE PER THIS SURVEY	RECORD BEARING/DISTANCE
AB PER AS-BUILT PLANS	CLF CHAIN-LINK FENCE
CM CONCRETE MONUMENT	CMP CORRUGATED METAL PIPE
(D) PER DEED	FFE FINISHED FLOOR ELEVATION
FR FIRE HYDRANT	IRH IRON ROD WITH CAP
MES MITERED END SECTION	
ELECTRICAL WIRE PULL BOX	TELECOMM WIRE PULL BOX
TELEPHONE BOX	FIRE HYDRANT
LIGHT POLE	SIGN
MANHOLE	POLYVINYL CHLORATE PIPE
REINFORCED CONCRETE PIPE	RIGHT-OF-WAY
AS SURVEYED	SANITARY SEWER
SEWER CLEANOUT	SEWER VALVE
WATER VALVE	



UTILITY PROVIDERS

PER SUNSHINE 811	JACKSONVILLE ELECTRIC AUTHORITY
AT&T DISTRIBUTION	SEWER/WATER/RECLAIMED WATER
TELEPHONE	JEALOCATES (904) 665-8001
DINO FARRUGGIO (561) 683-2729	TRAFFIC CONTROL DEVICES, INC.
COMCAST CABLE COMMUNICATIONS	ELECTRIC FIBER
CATV	DAVID NAGESAR (904) 693-9254
USIC DISPATCH (800) 778-9140	UNIT FIBER LLC
FLORIDA POWER & LIGHT--NASSAU	FIBER
ELECTRIC	SOUTHERN LIGHT EMERGENCY RESPONSE
USIC DISPATCH CENTER (800) 778-9140	DISPATCH (877) 652-2321
FLORIDA PUBLIC UTILITIES COMPANY	
GAS	
VICKI BRAND (904) 362-0704	

LEGAL DESCRIPTION

Crossings at Wildlight Outparcel B-4
A parcel of land, being a portion of the Heirs of E. Waterman Mill Grant, Section 44, Township 2 North, Range 27 East, Nassau County, Florida, and being more particularly described as follows:
Commence at the intersection of the Southerly right of way line of State Road No. 200 (A1A) (184 foot right of way) with the Southwesterly right of way line of William Burgess Boulevard (100 foot right of way); thence on said Southwesterly right of way line, South 17°43'35" East, a distance of 50.00 feet; thence departing said Southwesterly right of way line, South 17°43'35" East, a distance of 353.20 feet to the Point of Beginning; thence South 17°40'01" East, a distance of 223.50 feet; thence South 72°19'01" West, a distance of 221.50 feet to a point on the Easterly right of way line of Harper Chapel Road (80 foot right of way); thence North 17°40'01" West, along said Easterly right of way line, a distance of 223.50 feet; thence North 72°19'01" East, departing said Easterly right of way line, a distance of 221.50 feet to the Point of Beginning.
TOGETHER WITH Crossings at Wildlight Access Easement
A parcel of land, being a portion of the Heirs of E. Waterman Mill Grant, Section 44, Township 2 North, Range 27 East, Nassau County, Florida, and being more particularly described as follows:
Commence at the intersection of the Southerly right of way line of State Road No. 200 (A1A) (184 foot right of way) with the Southwesterly right of way line of William Burgess Boulevard (100 foot right of way); thence on said Southwesterly right of way line, South 17°43'35" East, a distance of 230.08 feet to the beginning of a curve concave Northeast, having a radius of 355.32 feet and a central angle of 07°01'08"; thence on the arc of said curve a distance of 43.53 feet, said arc being subtended by a chord which bears South 21°14'09" East a distance of 43.50 feet, to the Point of Beginning; thence continue on said curve and said Southwesterly right of way line an arc distance of 30.43 feet, said arc being subtended by a chord which bears South 27°13'31" East a distance of 30.42 feet; thence departing said Southwesterly right of way line, South 72°19'01" West, a distance of 582.65 feet to a point on the Easterly right of way line of Harper Chapel Road (80 foot right of way); thence along said Easterly right of way line North 17°40'01" West, a distance of 30.00 feet; thence departing said Easterly right of way line, North 72°19'01" East, a distance of 577.60 feet to the Point of Beginning.

SURVEYOR'S CERTIFICATION

To: JP Morgan Chase, N.A., and Chicago Title Insurance Company
This is to certify that this map or plot and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6a, 6b, 7a, 8, 9, 11b, 13, 14, 16, 17, 18, and 19 of Table A thereof. The field work was completed on January 18, 2024.

For the firm,
Larson Design Group
Date: 04/08/2024 Signed:
Tim C. Jaskiewicz, PSM
Professional Surveyor and Mapper

Florida License No. 7416

It is a violation of the law for any person, unless acting under the direction of a licensed Architect, Engineer or Land Surveyor, to alter an item in any way. Plans, maps, specifications, studies, and reports containing the ink seal imprint on the cover sheet accompanied by an original signature of the licensed professional may have been fraudulently altered and shall not be considered an original copy. Copyright Protected 2022, Larson Design Group.

JSP BY

04-08-24 ALTA SURVEY

NO. DATE

COMMENTS

ISSUE / REVISIONS

04-08-24

04-08-24

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1 2 3B 3C 3D 4 5 6 7 8 10 15 17 18 21 25 NOT A SURVEY MATTER

9 Consent of JEA to the Establishment of an Independent Special District recorded March 30, 2017 in Official Records Book 2110, page 480. (DOES NOT AFFECT)

11 Charter for Wildlight Commercial Properties as set out in instrument recorded June 3, 2017 in Official Records Book 2130, page 1268, as modified and amended, including without

12 Restrictions, covenants and conditions, which include provisions for a private charge or assessment, as contained in the Community Covenant for Florida Lowcountry Foundation, Inc. recorded July 3, 2017 in Official Records Book 2130, page 1407; First Amendment and Supplement to the recorded Community Covenant for Florida Lowcountry Foundation, Inc. modified by Supplement to the Charter for Wildlight Commercial Properties and Community Covenant for Florida Lowcountry Foundation recorded December 21, 2017 in Official Records Book 2130, page 1408; Second Amendment to the recorded Community Covenant for Florida Lowcountry Foundation, Inc. recorded December 21, 2017 in Official Records Book 2130, page 1409; Supplement to the recorded Community Covenant for Florida Lowcountry Foundation, Inc. recorded December 27, 2017 in Official Records Book 2166, page 160; recorded March 14, 2018 in Official Records Book 2183, page 644; Approval of Uses Under the Charter for Wildlight Commercial Properties recorded March 14, 2018 in Official Records Book 2183, page 645; and Supplement to the recorded Charter for Wildlight Commercial Properties recorded December 21, 2018 in Official Records Book 2245, page 360; Amendment to Supplement recorded December 21, 2018 in Official Records Book 2245, page 460; Amendment to Supplement recorded December 28, 2018 in Official Records Book 2245, page 1139; and Amendment to Supplement recorded December 28, 2018 in Official Records Book 2307, page 1028. (AFFECTS; BLANKET IN NATURE)

14 Approval of Uses under the Charter for Wildlight as set out in instrument recorded September 26, 2019 in Official Records Book 2307, page 1035. (AFFECTS; BLANKET IN NATURE)

19 Landscape Easement Agreement between Wildlight LLC, for the benefit of Property Management Support, as Trustee of the Low Country Land Trust u/t/a dated September 13, 2019, as set out in instrument recorded March 2, 2021 in Official Records Book 2438, page 580. (AFFECTS AS SHOWN)

22 Underground Easement (Business) in favor of Florida Power & Light Company as set out in instrument recorded October 8, 2021 in Official Records Book 2503, page 1432. (AFFECTS; BLANKET IN NATURE)

(24) INTENTIONALLY DELETED

(27) Terms and conditions of Lease dated _____, 2024 as evidenced by Memorandum of Lease by and between Property Management Support, as Trustee of the Low Country Land Trust u/t/a dated September 13, 2019, landlord, and JPMorgan Chase Bank, N.A., recorded _____, 2024 in Official Records Book _____, page _____. (DOES NOT AFFECT)

NOTE: Exception 1 above shall be deemed deleted as of the time the settlement funds or proceeds of the loan to be secured by the insured mortgage, as applicable, are disbursed by the Company or its authorized agent. Neither the Company nor its agent shall, however, be under any duty to disburse any sum except upon a determination that no such adverse intervening matters have appeared of record or occurred.

Items 3B, 3C, and 3D will be deleted from the policy(ies) upon receipt of an affidavit acceptable to the Company, affirming that, except as disclosed therein (i) no parties in possession of the Land exist other than the record owner(s); (ii) no improvements have been made to the Land within 90 days prior to closing which have not have been paid for in full; and (iii) no unpaid taxes or assessments are against the Land which are not shown as existing liens in the public records. Exception will be made for matters disclosed in the affidavit.

NOTE: In accordance with Florida Statutes section 627.4131, please be advised that the insured hereunder may present inquiries, obtain information about coverage, or receive assistance in resolving complaints, by contacting Chicago Title Insurance Company, 6420 Southpoint Parkway, Jacksonville, FL 32216; Telephone 904-633-9494.

1. The last date of field survey was January 18, 2024.
2. This survey was prepared in accordance with the "Standards of Practice", as set forth by the Florida Board of Professional Surveyors and Mappers in rule 5J-17.050 through 5J-17.053, of the Florida Administrative Code, pursuant to Chapter 472, Florida Statutes.
3. This survey map and/or report, or the copies thereof, is not valid without the signature and the original embossed seal or digital signature of a Florida Licensed Surveyor and Mapper.
4. The coordinate system utilized hereon is relative to the Florida State Plane Coordinate System, East Zone (0901), North American Datum of 1983 (NAD 83), 2011 realization as derived by Real-Time Kinematic (Global Positioning System (RTK GPS)) method using the public Florida Department of Transportation's Florida Permanent Reference Network (FPRN); mountpoint base station (FLB). The corrected positions computed by these networks were verified through redundant measures employing National Geodetic Survey (NGS) On-Line Positioning User Service (OPUS).
5. Elevations shown hereon are referenced to the North American Vertical Datum of 1988, as derived by utilizing National Geodetic Survey (NGS) On-Line Positioning User Service (OPUS).
6. All distances shown hereon are in U.S. survey feet.
7. The property described in Chicago Title Insurance Company commitment number 112044434, dated March 25, 2024, at 8:00 AM, Revision 4 dated March 26, 2024, and the property depicted on this survey is one and the same property without any gaps or gores.
8. This survey delineates the boundary location according to the legal description but does not determine ownership or property rights.
9. Underground improvements, if any, were not located except as shown.
10. Symbols shown hereon are not to scale.
11. Zoning letter or report has not been provided by the client. Zoning information listed hereon was obtained from the City of Land O' Lakes, Pinellas County, Florida and any contained by, or within RESOLUTION OF THE PLANNING AND ZONING COMMISSION OF THE COUNTY OF ST. JOHNS, STATE OF FLORIDA; RESOLUTION NUMBER 2016-08. Recorded in the official records of St. Johns County, State of Florida on October 24, 2016; being Instrument number 20160698147 (ORB 4274 Pages 1578 – 1580).
12. Interior improvements, if any, were not located except as shown.
13. The parcel of land shown hereon has a Flood Zone designation of "X", based on the FEMA Flood Insurance Rate Map for the FEMA Community of Nassau County and incorporated areas, Florida, community number 2016-0001 number 0335-suffix F and being part of the map number 120890335F, with an effective date of December 17, 2010.
14. Adjacent property information was obtained from the St. Johns County, Florida Property Appraiser.
15. Evidence of recent earth moving work was not observed in the process of conducting the field work. No building construction or building additions were observed in the process of conducting the field work.
16. The bearings shown upon this survey are based on Grid East as established by the National Geodetic Survey (NGS) in coordination with the public Florida Department of Transportation's Florida Permanent Reference Network (FPRN); mountpoint base station (FLB) and verified through redundant static occupation and observation and processed through National Geodetic Survey On-Line Positioning User Service (OPUS). Basis of bearing is the Baseline to State Road 200 (44-01-A10A) as depicted on Florida Department of Transportation Right of Way Monumentation Survey Map 74-04-117012 (Road Map Book 2603 Pages 1248 – 1250, as being North 72° 19' 01" East.
17. There is no visible evidence of cemeteries on subject property.
18. The subject property has indirect physical access to Harper Chapel Road and William Burgess Boulevard, both being improved public roadways, via a physically improved private access roadway.
19. The parcel contained in the legal description is contiguous without any gaps, gores, or overlaps.
20. Subsurface utility designation (QL-B) and delineation was provided by a third-party contractor, Surveying and Mapping, LLC (SAM) and located and mapped by Larson Survey Group.
21. Subject parcel has no current address.
22. Invert elevations marked "AB" were inaccessible for field measurement; elevations marked are taken from an as-built survey of the site provided by the Steinman Enterprise, Inc. Where possible the as-built elevations were verified to within ±0.04' of field measurement.

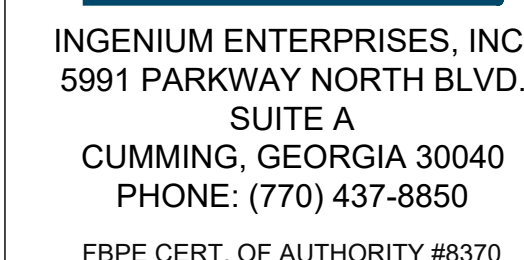
04-08-25 ALTA SURVEY
DATE

**and Title Survey
Outparcel B-4
ated Yulee
nty, Florida**

Larson Design Group • Architects Engineers Surveyors
435 N Keller Road • Suite 101
Maitland, FL 32751
PHONE 689.229.2485 TOLL FREE 877.323.6603
LB NO. 8510 • www.larsondesigngroup.com

GENIUM ENTERPRISES,
#5 Shumard Oak Drive Suite
J O' Lakes, Florida 34638
PHONE 813.387.0084

PROJECT NO.: 13014-007



SEARCH

PROJECT INFORMATION BLOCK	
JOB #:	23402
DATE:	08-02-202
DRAWN BY:	RH/MH/M
CHECKED BY:	EH
INGENIUM PROJECT #	23006
SHEET TITLE	

SHEET NUMBER

C03.1

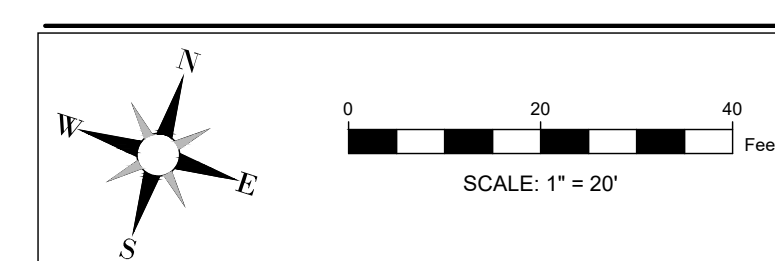
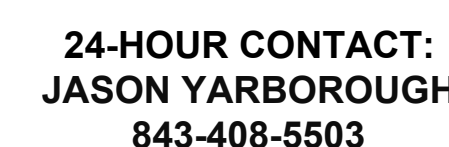
ISSUE FOR PERMIT

LINE TABLE				
LINE #	LENGTH	DIRECTION	START POINT	END POINT
L-1	59.62'	S17°40'01"E	2286455.52, 454863.05	2286398.71, 454881.11
L-2	138.32'	S17°40'01"E	2286587.32, 454821.07	2286455.52, 454863.05
L-3	45.00'	N72°19'59"E	2286573.66, 454778.20	2286587.32, 454821.07
L-4	83.30'	N17°40'01"W	2286494.29, 454803.48	2286573.66, 454778.20
L-5	55.02'	N17°40'01"W	2286441.87, 454820.17	2286494.29, 454803.48
L-6	45.00'	N72°19'59"E	2286443.87, 454820.17	2286455.52, 454863.05
L-7	59.30'	N72°19'59"E	2286424.81, 454763.67	2286441.87, 454820.17
L-8	11.00'	S17°40'01"E	2286449.29, 454731.44	2286438.81, 454734.70
L-9	17.62'	S72°19'59"W	2286483.53, 454763.16	2286478.18, 454746.31
L-10	16.46'	N84°33'13"E	2286483.53, 454763.16	2286485.09, 454779.54
L-11	25.60'	S72°19'59"W	2286492.86, 454803.93	2286485.09, 454779.54

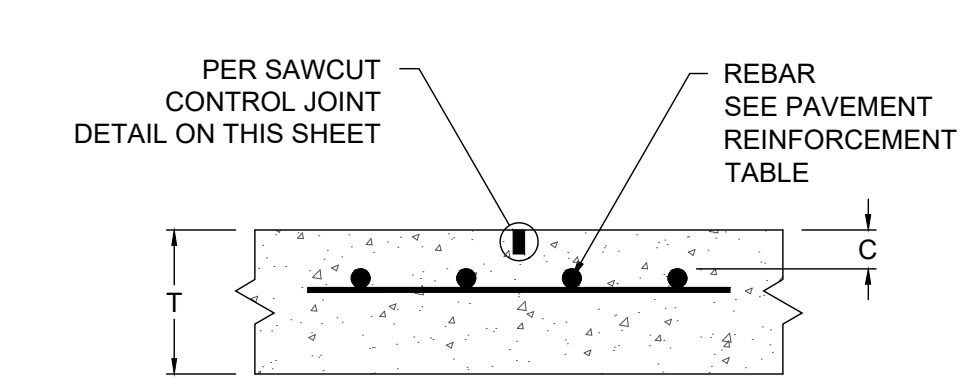
CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD LENGTH	CHORD BEARING
C-1	36.13'	23.00'	90.0000	32.53'	S62°40'01"E
C-2	36.13'	23.00'	90.0000	32.53'	S27°19'59"W

SITE STAKING NOTES SEE SHEET C01.1

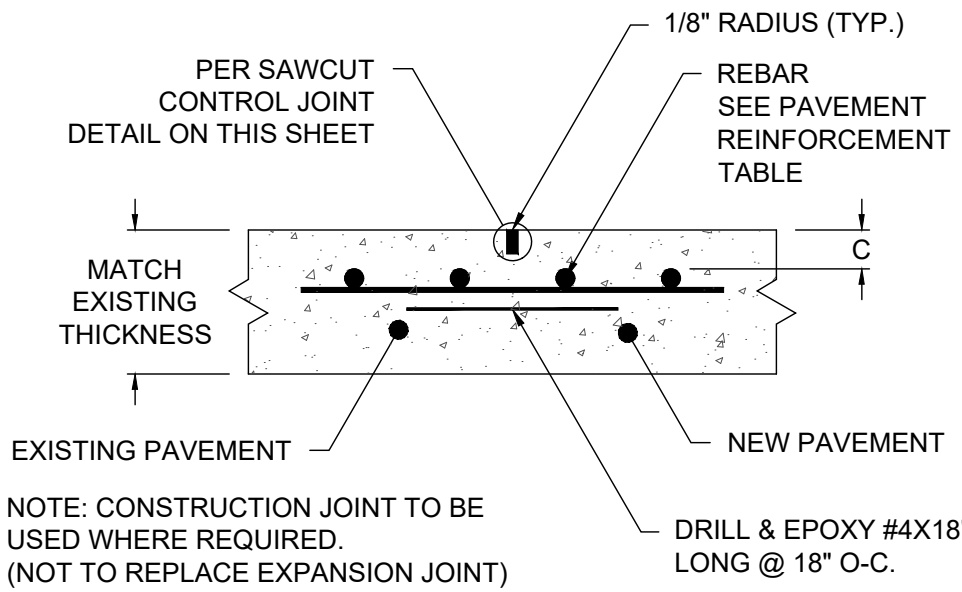
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING
FEATURES, INCLUDING BUT NOT LIMITED TO,
UTILITIES, EXISTING IMPROVEMENTS, ETC.
CONTRACTOR SHALL VERIFY THEIR LOCATIONS
AND ELEVATIONS PRIOR TO STARTING
CONSTRUCTION AND ALERT ENGINEER TO ANY
DISCREPANCIES IMMEDIATELY



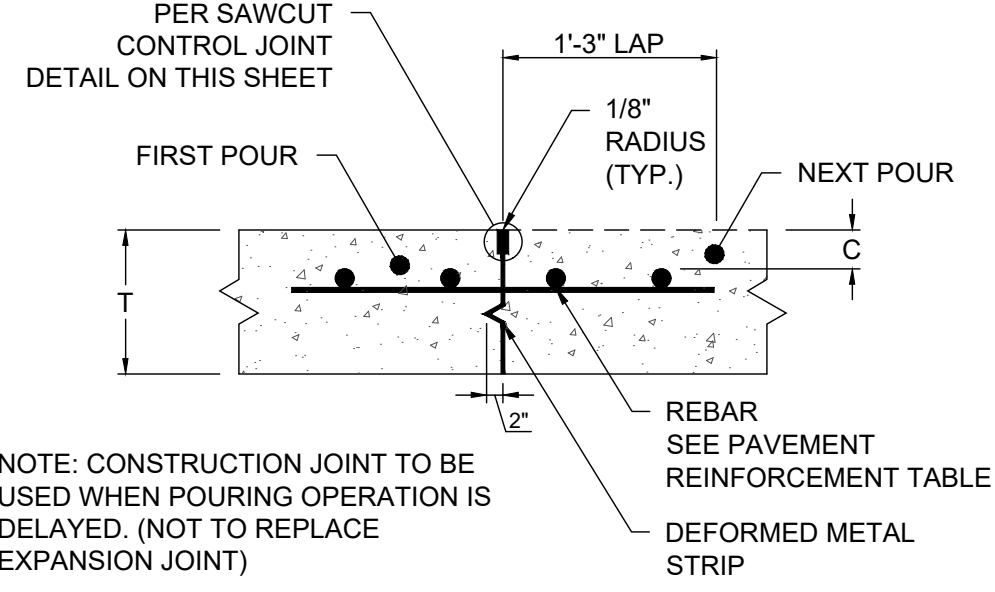
SAWCUT JOINT NTS



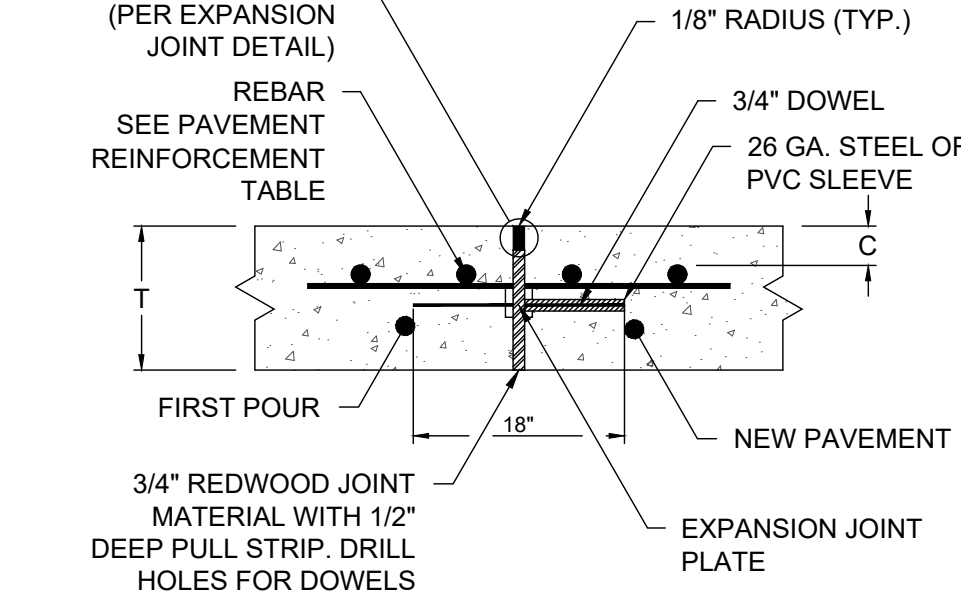
CONCRETE TO CONCRETE TIE IN NTS



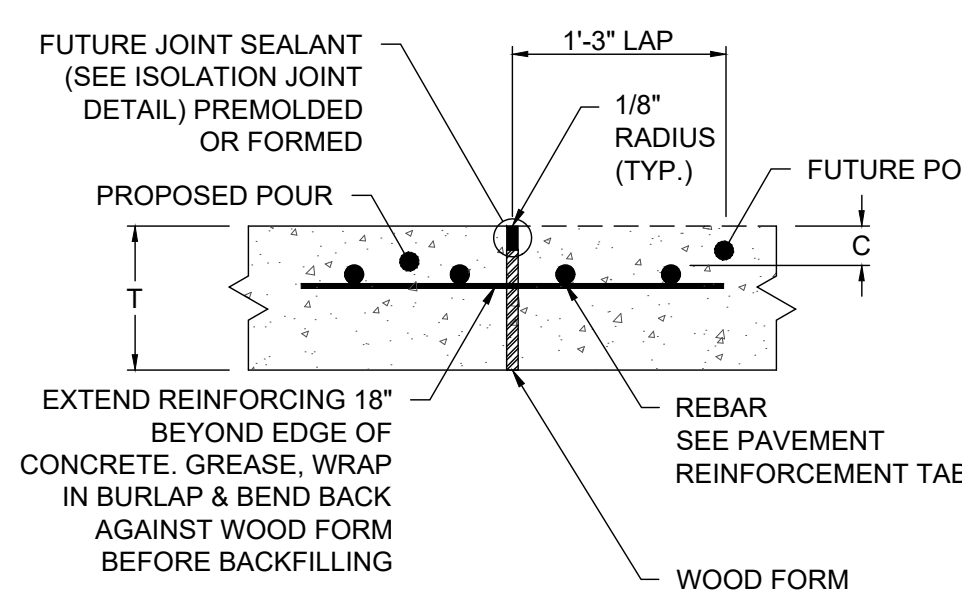
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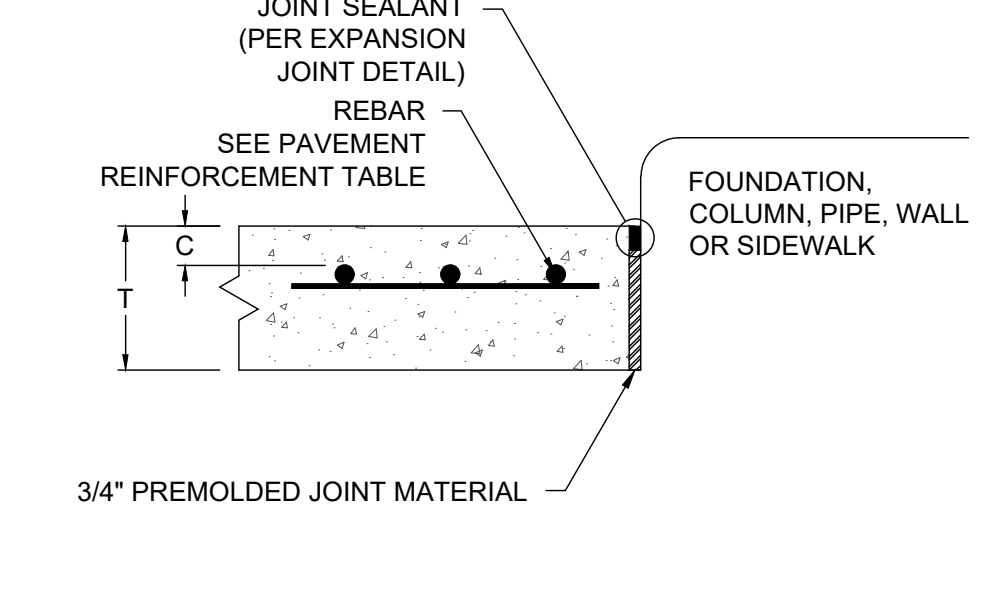
SAWCUT JOINT NTS



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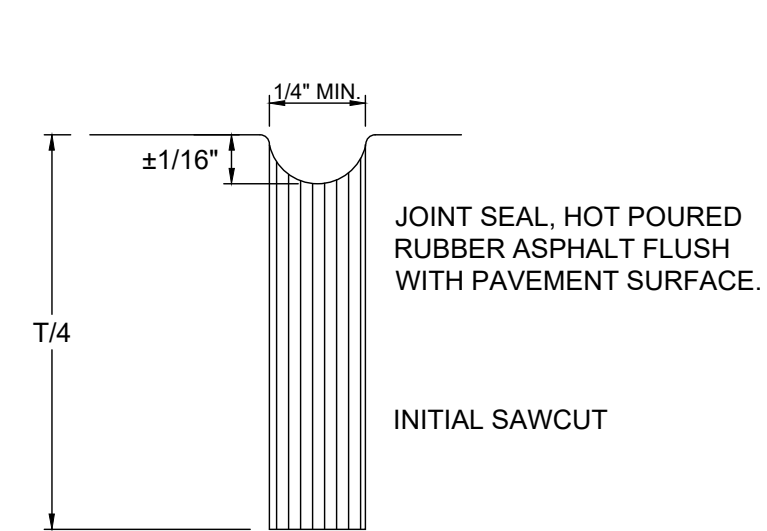


CONSTRUCTION JOINT NTS

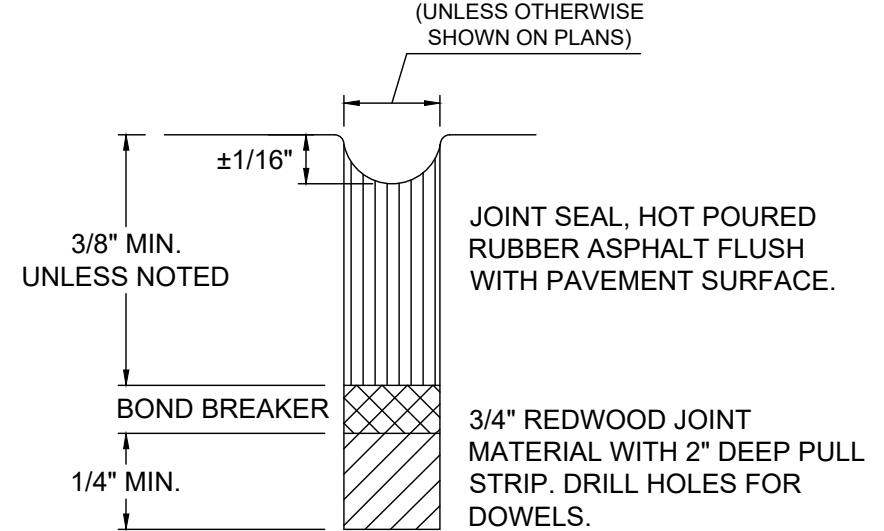


- NOTES:
1. REINFORCING STEEL BAR SIZE/SPACING SPECIFICATIONS IN GEOTECH REPORT SHALL SUPERSEDE ABOVE TABLE.
 2. REINFORCING STEEL SIZE/SPACING IS BASED ON MIN. 60,000 PSI TENSILE STRENGTH REINFORCING STEEL AS SHOWN.
 3. CONCRETE PAVING MIX DESIGN SHALL HAVE MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. GEOTECHNICAL REPORT CONCRETE PAVING MIX DESIGN SHALL SUPERSEDE VALUES HEREIN.
 4. MAXIMUM JOINT SPACING SHALL BE PER JOINT LAYOUT PLAN (IF PROVIDED) BUT SHALL NOT EXCEED VALUES IN TABLE.
 5. MAXIMUM JOINT SPACING IN GEOTECHNICAL REPORT SHALL SUPERSEDE VALUES IN ABOVE TABLE.
 6. USE STATE DOT SUBBASE UNLESS OTHERWISE SPECIFIED BY GEOTECHNICAL REPORT.
 7. ALL JOINTS IN PAVING SHALL BE REFLECTED IN CURBING AND SHALL HAVE ALL THEIR RESPECTIVE JOINTING MATERIALS PRESENT (I.E. EXPANSION JOINTS SHALL HAVE THEIR RESPECTIVE FILLER BOARD AND CAULK REPLACED).
 8. CURB EXPANSION JOINTS - IF THERE IS AN EXPANSION JOINT IN THE PAVING, THE EXPANSION JOINT MUST FOLLOW THROUGH THE CURB. THE REINFORCING STEEL MUST ALSO BE CUT AT THE EXPANSION JOINT AND NOT ALLOWED TO RUN THROUGH THE JOINT CONTINUOUSLY. A SAW CUT EXPANSION JOINT IS NOT ACCEPTABLE BECAUSE NORMAL EXPANSION AND CONTRACTION WILL CAUSED THE CONCRETE TO PUSH AGAINST THE TWO SECTIONS AND ONE SIDE WILL EVENTUALLY FAIL. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN, THE CURB SHOULD BE CUT TWICE AND A 3/4" PIECE OF CONCRETE IS REMOVED. IN ALL CASES THE JOINT SHOULD BE CAULKED WITH NP1.
 9. CONCRETE TOUCHING THE BACK OF CURBS:- ANY CONCRETE THAT TOUCHES THE BACK OF A CURB INCLUDING SIDEWALKS, ISLAND NOSINGS AND PAYPHONE PADS SHALL BE ISOLATED FROM THE CURB USING 1/2" BLACK ASPHALT IMPREGNATED FIBERBOARD. CONTRACTOR SHALL USE A REMOVABLE STRIP OR A ZIP-STRIP AND SEAL THE JOINT WITH SL1. THE ONLY EXCEPTION IS IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CURB AND PARKING LOT.
 10. CURBS AT THE BUILDING FOUNDATION- IF A CURB TOUCHES THE BUILDING FOUNDATION, IT NEEDS TO BE ISOLATED WITH EXPANSION JOINT MATERIAL JUST LIKE THE PAVING. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN, A 1/2" PIECE OF CONCRETE SHOULD BE REMOVED. THE JOINT SHOULD BE CAULKED WITH NP1.
 11. EXPANSION JOINTS AT ISLAND NOSINGS- IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CUB AND PARKING LOT, THEN PAVING EXPANSION JOINTS SHOULD CONTINUE THROUGH THE NOSINGS.

SAW CUT CONTROL JOINT NTS



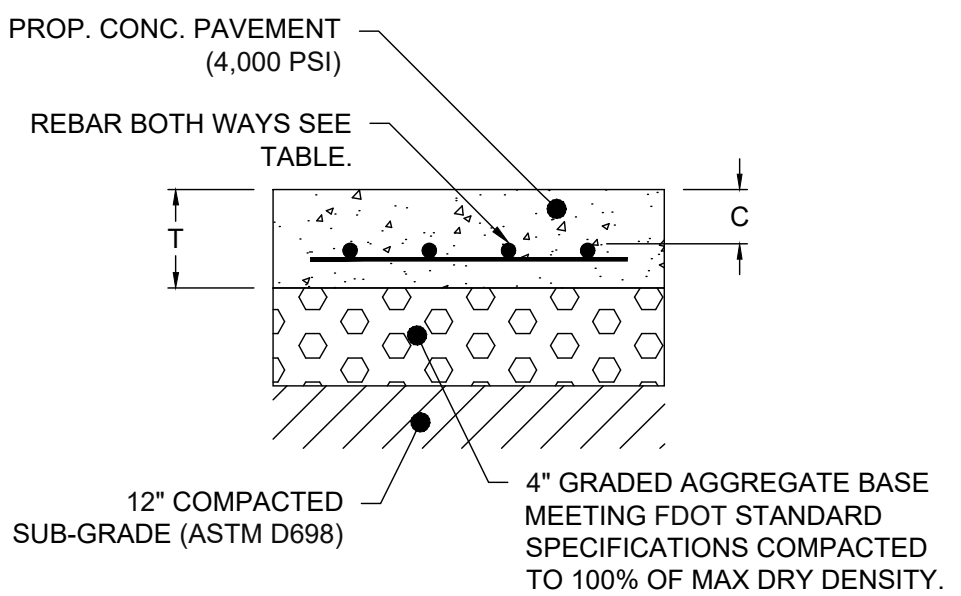
EXPANSION JOINT NTS



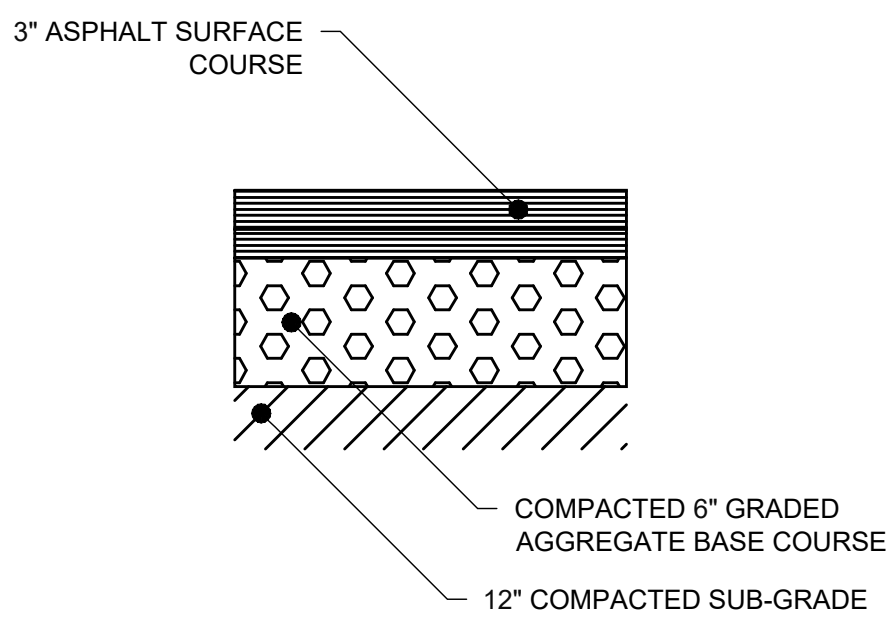
REINFORCEMENT TABLE

CONCRETE SECTION DESIGNATION	SLAB THICKNESS (T) (IN.)	COVER (IN.) (2" MIN)	MAX EXPANSION JOINT SPACING (FT)	REINFORCING STEEL BAR SIZE & SPACING
PARKING	5	2	10' x 10'	#3 @ 24" C.C
DRIVE-THRU	5	2	14' x 14'	#3 @ 24" C.C
DUMPSTER APPROACH PAD	6.5	2	14' x 14'	#3 @ 24" C.C

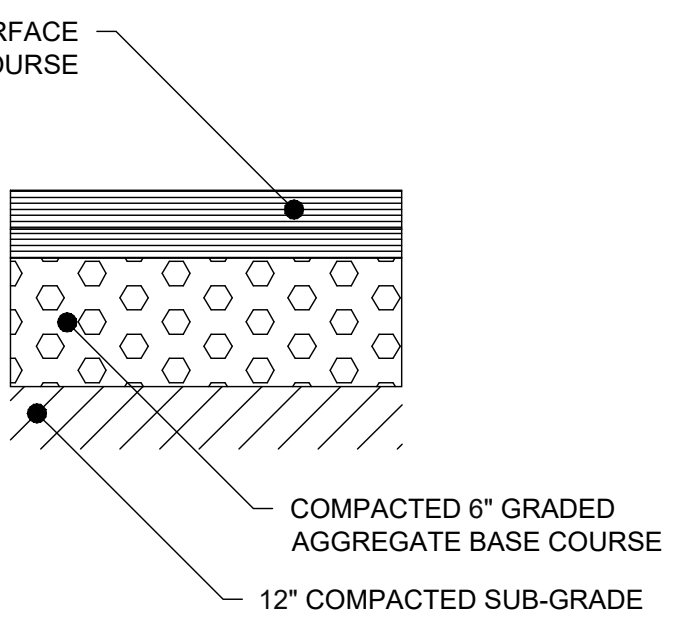
CONCRETE SECTION



HEAVY DUTY ASPHALT

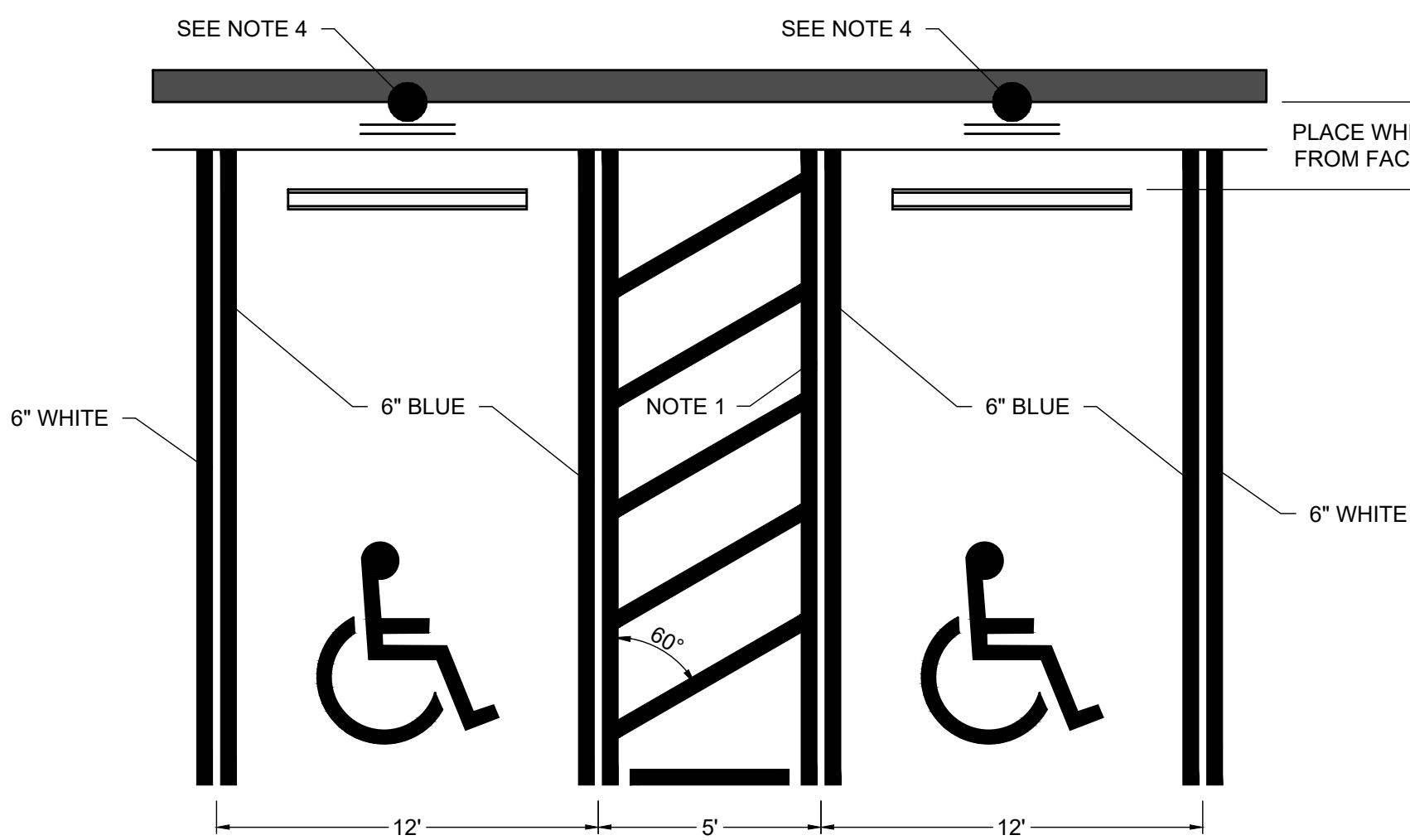


LIGHT DUTY ASPHALT

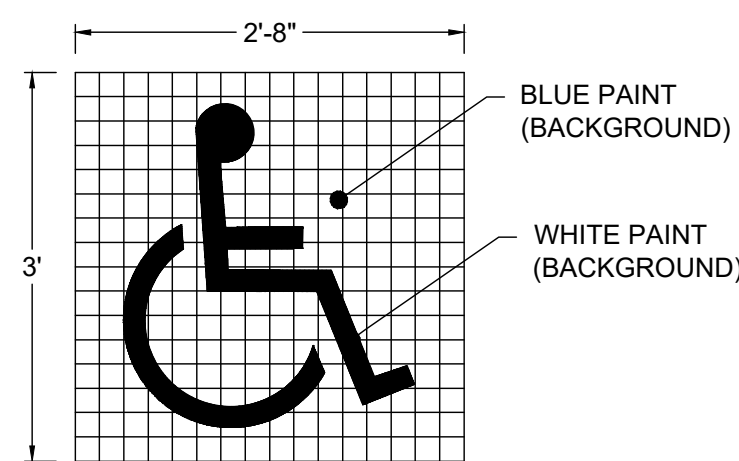


CONCRETE SECTIONS

PAVEMENT SECTIONS



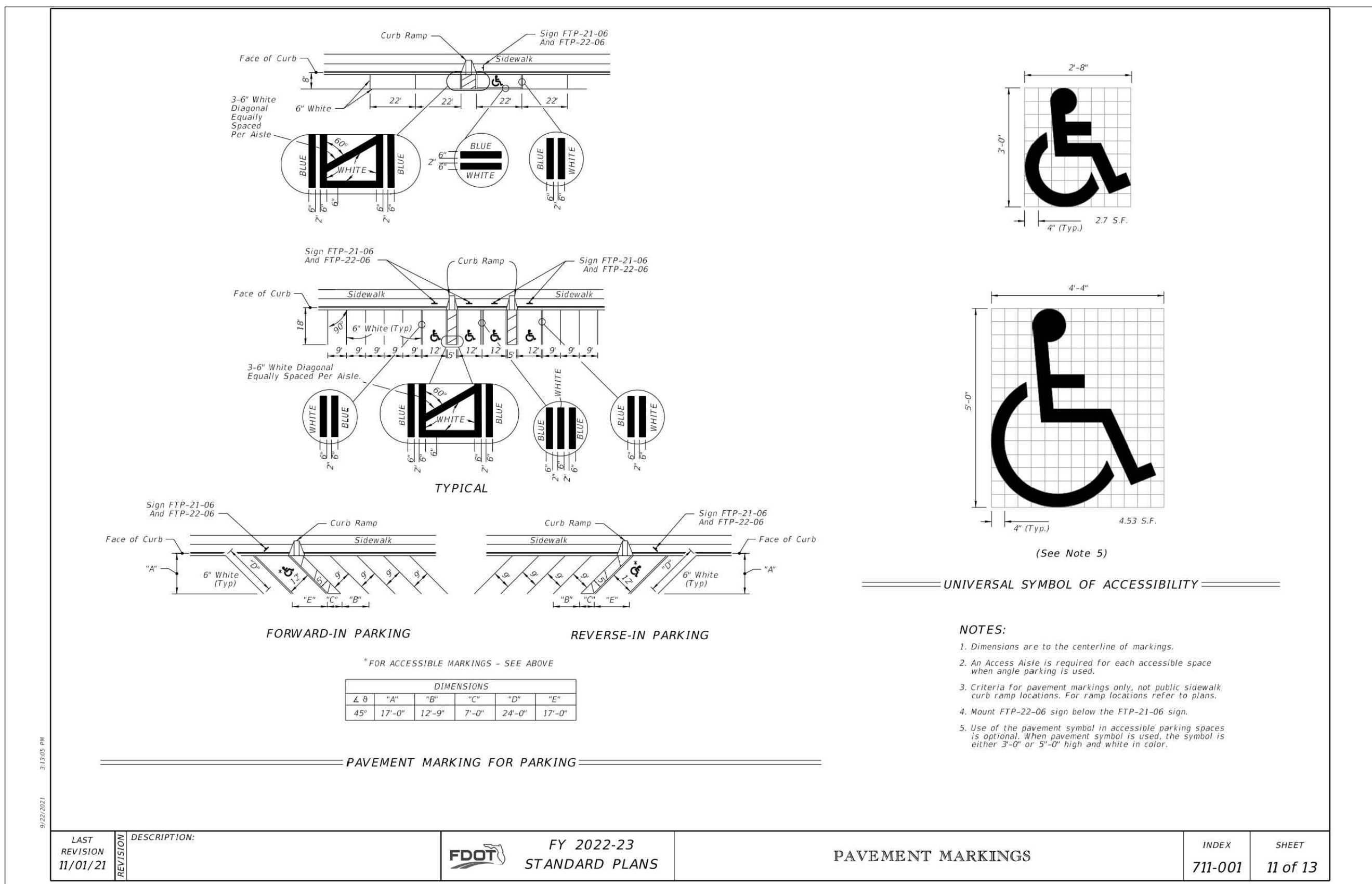
TYPICAL ACCESSIBILITY PARKING LAYOUT & STRIPING (FLORIDA)



UNIVERSAL SYMBOL OF ACCESSIBILITY

- NOTES:
1. ALL ADA PAVEMENT MARKINGS SHALL MATCH FDOT STANDARD PLAN 711-001 UNLESS OTHERWISE DIRECTED BY LOCAL JURISDICTION.
 2. DIMENSIONS ARE TO THE CENTERLINE OF MARKINGS.
 3. CRITERIA FOR PAVEMENT MARKINGS ONLY. NOT PUBLIC SIDEWALK CURB RAMP LOCATIONS. FOR RAMP LOCATION REFER TO PLANS.
 4. CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL ALL ADA PARKING SIGNAGE PER LOCAL AND STATE REQUIREMENTS FOR SIZE, WORDING, AND FINE AMOUNT.

SEE SHEET C03.2, DETAIL 4 FOR FDOT ADA AREA REQUIREMENTS



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

LAST REVISION	DESCRIPTION	FY 2022-23 STANDARD PLANS	INDEX	SHEET
11/01/21			711-001	11 of 13

ADA



INGENIUM ENTERPRISES, INC.
5991 PARKWAY NORTH BLVD.
SUITE A
CUMMING, GEORGIA 30040
PHONE: (770) 437-8850
FBPE CERT. OF AUTHORITY #8370

CHASE

WILDLIGHT
JPM Chase Retail Banking Center
SR-200(A1A) & HARPER CHAPEL RD
YULEE, FLORIDA 32097

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SEAL

ISSUE/BY	DATE	DESCRIPTION
1	01 12-20-2024	COUNTY SUBMITTAL
2	02 01-07-2025	COUNTY SUBMITTAL

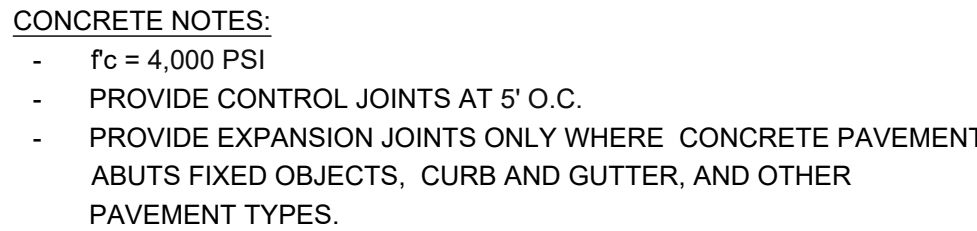
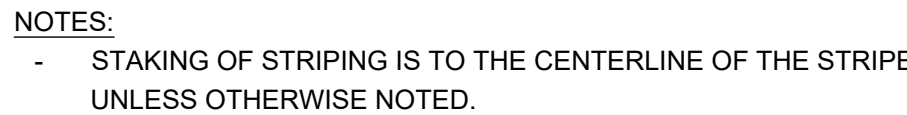
PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

HARDSCAPE DETAILS I

SHEET NUMBER

C03.2

ISSUE FOR PERMIT



NTS



NTS



NTS



NTS



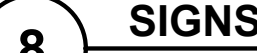
PLACEMENT PLAN

LAG BOLT METHOD: RECOMMENDED FOR ASPHALT OR CONCRETE ONLY.

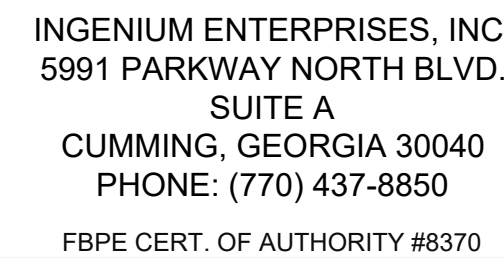
TOOLS NEEDED:

- HIGH SPEED HAMMER DRILL WITH A $\frac{3}{8}$ " MASONRY DRILL BIT
 - IMPACT WRENCH OR HEAVY RATCHET WITH $\frac{3}{4}$ " SOCKET
1. POSITION THE PARKING BLOCK WHERE YOU WANT TO INSTALL IT. USING THE HOLES MOLDED IN THE PARKING BLOCK AS TEMPLATES, MARK THE LOCATION OF EACH HOLE ON THE SURFACE.
 2. REMOVE THE PARKING BLOCK. USING A HIGH-SPEED HAMMER DRILL WITH $\frac{3}{8}$ " MASONRY BIT, DRILL A 4" TO 4 $\frac{1}{2}$ " DEEP HOLE AT EACH MARKED LOCATION.
 3. INSERT A LAG ANCHOR (WITH THE LARGE ROUND HOLE IN THE ANCHOR FACING UP) INTO EACH HOLE. TAP THE ANCHOR INTO THE HOLES WITH A HAMMER SO THAT THE TOP OF EACH ANCHOR IS FLUSH WITH THE SURFACE.
 4. REPOSITION THE PARKING BLOCK SO THAT THE MOLDED HOLES LINE UP VERTICALLY WITH THE PILOT HOLES YOU DRILLED. BEGINNING IN THE CENTER HOLE, APPLY FIRM HAND PRESSURE. SLIP A WASHER ONTO A LAG BOLT. INSERT THE BOLT THROUGH THE HOLE IN THE PARKING BLOCK AND TIGHTEN THE BOLT ABOUT THREE QUARTERS OF THE WAY WITH A $\frac{3}{4}$ " SOCKET. REPEAT FOR EACH HOLE IN THE PARKING BLOCK. FINISH TIGHTENING EACH BOLT UNTIL JUST SNUG. DO NOT OVER TIGHTEN! EXCESSIVE TIGHTENING MAY DAMAGE THE PARKING BLOCK AND WILL VOID THE WARRANTY.

****REFER TO MANUFACTURERS INSTALLATION SPECIFICATIONS.****



NTS



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SEARCH

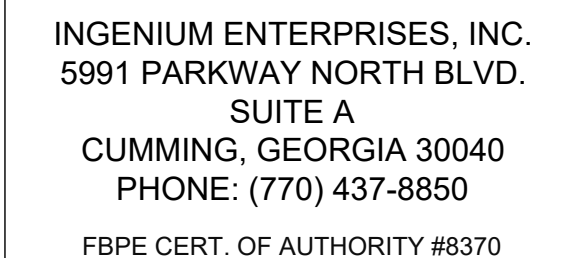
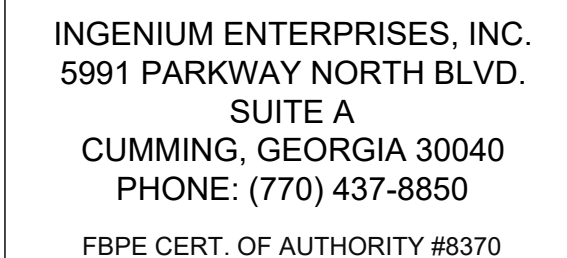
ISSUE/BY	DATE	DESCRIPTION
1 01	12-20-2024	COUNTY SUBMITTAL
2 02	01-07-2025	COUNTY SUBMITTAL

PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

HARDSCAPE DETAILS II

SHEET NUMBER

C03.3



INGENIUM ENTERPRISES, INC.
5991 PARKWAY NORTH BLVD.
SUITE A
CUMMING, GEORGIA 30040
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FBPE CERT. OF AUTHORITY #8370

INGENIUM ENTERPRISES, INC.
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FBPE CERT. OF AUTHORITY #8370

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5991 PARKWAY NORTH BLVD.
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CUMMING, GEORGIA 30040
PHONE: (770) 437-8850
FBPE CERT. OF AUTHORITY #8370

Submitted by Western Florida Lighting		Catalog Number: VLP-UGL-280/4K/7/3/UNV/MHT/AWT		Type:
 Job Name: PUBLIC LIGHTING #1702 - WORLDJACK Architect: Culbert & Peterson Architects, Inc. Engineer: Apollo Engineering, LLC (Apollo Beach)		GEN-01 SB1-12-P-T20-WHT Notes:		S1 PUBL/PRT/PA121-19789

 VIPER L LARGE VIPER LUMINAIRE	DATE _____	LOCATION _____
	TYPE _____	PROJECT _____
	CATALOG #: _____	

FEATURES

- Large size companion to Viper Small
- Wide choice of different LED wattage configurations
- Ten optical distributions
- Designed to replace HD lighting up to 1000W MH or HPS
- Suitable for wet locations



STRIKE

by BEYONICS







See Certification Specifications

CONTROL TECHNOLOGY

RELATED PRODUCTS



<h3>SPECIFICATIONS</h3> <h4>CONSTRUCTION</h4> <ul style="list-style-type: none"> • Manufactured with die cast aluminum • Coated with a polyester finish that meets ASTM B17 corrosion test requirements and ASTM D522 cutting and loss of adhesion tests • IP's polyester powder-coat electrostatically applied and thermocured IP's finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset spray TDC polyester powder coat finish • The finish meets the AAMA 2604 test procedure specification which includes passing a 3,000-hour salt-spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts up to 160 inch-pounds • External hardware is corrosion resistant <h4>OPTICS</h4> <ul style="list-style-type: none"> • Cartridge is held together with internal brass standards soldered to the base so that it can be field replaced as a one-piece optical system • One-piece silicone gasket ensures a waterproof seal around each individual lamp • One-piece optical cartridge system consisting of an LED engine, optics, gasket and stainless steel bezel <h4>INSTALLATION</h4> <ul style="list-style-type: none"> • Mounting variations for horizontal arm, vertical tension or traditional arm mounting available. • Mounting hardware included <h4>ELECTRICAL</h4> <ul style="list-style-type: none"> • Luminaire accepts 100W through 277V, 347V or 480V input 50 Hz to 60 Hz (UNV) 	<h4>ELECTRICAL (CONTINUED)</h4> <ul style="list-style-type: none"> • Power factor is ≥ .90 at full load • Dimming drivers are standard, but CD must be selected in options to obtain external wiring leads for dimming controls • Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher • Plug dimmables are certified by UL for use at 600 VAC, 15A or higher. 15A rating applies to primary (AC) side only • Fixture electrical compartment contains all FUSE electrical components • Optional 7-pin ANSI C136-41-2013 Twist-Lock® photo circuit controller available. Compatible with ANSI C136-41 external wireless control devices • Ambient operating temperature -40°C to 25°C • Surge protection: 20kA • Lifespan** (see Electrical Data) <h4>CIRCUITS</h4> <ul style="list-style-type: none"> • Available with an optional passive infrared (PIR) motion sensor capable of detecting motion around the luminaire to full wattage and full light output. This detection by the PIR sensor will reduce the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor the luminaire returns to full wattage and full light output. Once the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor the luminaire returns to full wattage and full light output. This detection by the PIR sensor will reduce the wattage to factory preset level, reducing the light level accordingly. • Available with Energen® for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night
--	--

		KEY DATA
Luminaire Range	14-283-33-969	
Wattage Range	64-395	
Efficacy Range (LPW)	98-135	
Reported Life Hours	170-377000	
Input Current Range (amps)	0.3-4.0	

Page 19 of 119/2020
SEMAPPER-LSPCC

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701 Mission Boulevard • Greenville, SC 29607 Tel 864.678.3000 / Website www.beaconproducts.com



Submitted by Western Fibre Lighting

Job Name:
PUBLIC STORE #1702 - WORLDJAX
Architect: Cahill & Peterson Architects, Inc.
(Chicago)
Engineer: Apollo Engineering, LLC (Apollo Beach)

Catalog Number:
VPL-196L-280K-473/3UNV/MWH/VHT-
GEM-I01 SB1-12-P2T-WHD
Notes:

Type: _____

S1

PUBLX/PAT21-191759

VIPER L[™]

LARGE VIPER LUMINAIRE

ORDERING GUIDE

CATALOG #						
VPL	LED Engine	GC/CCT/K	Distribution	Rotation	Voltage	
SB1 Viper Luminaire						
	44K-150W LED array	3CCT/CR, 30°C	F8	Type I-Vibrant Beam	Black, No rotation	120-277V
	80L-180W LED array	4K/4000K, 70°C	2	Type 2	L Optic rotation left†	347 347V
	80X-235W LED array	SC/5000K, 70°C	3	Type 3	R Optic rotation right†	480 480V
	140L-220W LED array		4	Type 4		
	PEL-280W LED array		4W	Type 4 Wide		
	SEB-35W LED array		SOM	Type SOM		
	96-395W LED array		SOM	Type SOM		
			SR	Type SR (rectangle)		
			SW	Type SW (round)		
			TC	Tenck Cutout		
			CR	Corner Right		
			CL	Corner Left		

Example: VPL-96L-280-47K-UUV-A-DRT-GEM-I01-BC

Mounting	Color	Control Options Network	Options
A Selectable Arm Remedy RM-34 for square or round pole	BLT Black Matte Tealwood	NOWE No Wireless Enabled (module + radio)	BC Backboard (available for FS, 2.3, 4, 4W Optic)
MAR Max Mounting Arm Remedy 12x12 2x12 2x20 horizontal arm or vertical pole	BLG Black Gloss Smooth	NXPSP-F No Wireless, NPX, OC Sensor, Daylight Harvesting†	CD Corner Drilling
K K-Proctor Geometry Pole Adapter for 1.5"-2.375" round pole	DBT Dark Bronze Matte Tealwood	NXPSP-F No Wireless, NPX, OC Sensor, Daylight Harvesting†	CF Corner Fung
WB Universal Arm for square pole	DTS DT Graphics Matte Tealwood	Control Options	TF Terminal Block
AD Universal Arm with adapter for 1.5"-5.5" round pole	LSL Light Grey Glass Smooth	TPR 7Fm Receptacle only (shading cap, photo control or wireless dimming available by option)	
ADA Universal Arm with adapter for 2.3"-4.75" round pole	PSS Platinum Silver Smooth	7Fm Receptacle w/ Shading Cap	
ADD Universal Arm with adapter for 5.5"-5.9" round pole	WHT White Matte Tealwood	7Fm Receptacle w/ Photo Control	
ADU Universal Arm with adapter for 6.0"-6.5" round pole	WHT Wood Grain Smooth	7Fm Receptacle w/ Twist-Lock® photo control	
	VGT Venetian Green Tealwood	SCP-L Programmable Occupancy Sensor w/ adjustable cut-off	
	CC Custom Color	GEM G1 ENERGY!™	
		SWP S1 Selective Pre-Commissioning†	
		SCS SCS Selective Pre-Commissioning†	

House Side Shield Accessories	Mounting Accessories	Notes
HSSVEP-L90-FBX00 90° shield left or back	VPLAD-RP94 2.4"-4.7" Round Pole Adapter for AD arm	1 Not available with other wireless control or sensor options
HSSVEP-L90-LRX00 90° shield left or right	VPLAD-PP94 4.7"-5.9" Round Pole Adapter for AD arm	2 Specify mounting height = 8' or less, 40' or less †
HSSVEP-L270-FBX00 270° shield left or back	VPLAD-AP94 4.7"-5.9" Round Pole Adapter for AP arm	3 Specify network settings code (see page 10) or ENSEENB (photo or S1 setting tabs) or wireless protocol. Not available with sensor or S1 setting options.
HSSVEP-L270-LRX00 270° shield left or right	VPLAD-PP95 5.9"-6.5" Round Pole Adapter for PP arm	4 Specify grade and new drive type. See specification sheet for complete listing of all accessories.
HSSVEP-L270-LRX00 Full shield	VPLAD-PP96 6.0"-6.5" Round Pole Adapter for AD arm	5 Only available with PL 2.3, 4, 4W and DTL distributions
Reduce 100% return for standard finish caps. Refer to page 6 for all accessories.		6 Note or specify ENSEENB are pre-commissioning to program and control the occupancy sensor

Accessories and Services (Ordered Separately)	Hubbell Control Solutions – Accessories (Sold Separately)
SCR-REMOTE Remote Control for SOP, F, Option Order at least one per projects program and control the occupancy sensor	No Distributed Illumination
SWISP Selective interface software loaded on USB flash drive with user provided screenshot PC Windows based only. Includes Selective Interface software and USB bridge module	<input checked="" type="checkbox"/> NODIM On-duty Module (Pair) or Off-On/DTL, Daylight Sensor with Hubbell® Radio and Bluetooth® Radio (Pair)
SWITB Wireless tablet with Selective Interface software, includes tablet with wireless spreadsheet, Selective Interface and USB radio bridge module	<input type="checkbox"/> wiSCAPE Lighting Control
SWBRG Selective USB cable bridge module. Order if replacement is required or if an extra bridge module is requested	<input type="checkbox"/> WR-MRE On-duty Module (Pair) or 5 pin On/Off On/DTL, Daylight Sensor with wiSCAPE Radio, 100-480VAC
BRO-SPEAKER Bldg Speaker	
BRO-SPEAKER-1 When selecting S1 as part of these two methods options will be ordered per project.	
* Available as a Selective retrofit solution for luminaire with an existing T-type connector	

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SEAUPUR-LGPC

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HUBBELL Index Page

Submitted by Western Florida Lighting

WFLI
Job Name:
 PUBLIC STORE #1790 - WORLDJAX
 Architects: Culver & Peterson Architects, Inc.
 Engineer: Apollo Engineering, LLC (Apollo Beach)

Catalog Number:
 VP-L96L-280/4K/73/UNV/MAF/WH/T/
 GENI-01 SB1-12-PT20-WHT
Notes:


Type:
S1
 PUBLIX/TPFA21-101789


EVERGEN USER'S MANUAL

page 5

ROUTINE SETTING CHART

Routine Number	Switch 1	Switch 2	Switch 3	Switch 4	Switch 5	Brightness %	Simple Delay (hrs.)	Variable Delay Estimated Time
01	0	0	0	0	0	100	0	
02	1	0	0	0	0	20	0	
03	0	1	0	0	0	20	3	
04	1	1	0	0	0	20	5	
05	0	0	1	0	0	20	7	
06	1	0	1	0	0	20	9	
07	0	1	1	0	0	40	0	
08	1	1	1	0	0	40	3	
09	0	0	0	1	0	40	5	
10	1	0	0	1	0	40	7	
11	0	1	0	1	0	40	9	
12	1	1	0	1	0	60	0	
13	0	0	1	1	0	60	3	
14	1	0	1	1	0	60	5	
15	0	1	1	1	0	60	7	
16	1	1	1	1	0	60	9	
17	0	0	0	0	1	20		6:00 pm
18	1	0	0	0	1	20		8:00 pm
19	0	1	0	0	1	20		10:00 pm
20	1	1	0	0	1	20		12:00 am
21	0	0	1	0	1	20		2:00 am
22	1	0	1	0	1	40		6:00 pm
23	0	1	1	0	1	40		8:00 pm
24	1	1	1	0	1	40		10:00 pm
25	0	0	0	1	1	40		12:00 am
26	1	0	0	1	1	40		2:00 am
27	0	1	0	1	1	40		4:00 am
28	1	1	0	1	1	60		6:00 pm
29	0	0	1	1	1	60		8:00 pm
30	1	0	1	1	1	60		10:00 pm
31	0	1	1	1	1	60		12:00 am
32	1	1	1	1	1	60		2:00 am


BEACON
 energy performance technology


HUBBELL
 Lighting

Submitted On: Jul 22, 2021

10/11

Index Page

Submitted by Western Florida Lighting

WFLi

Logo

Job Name:

PUBLIC STORE #1762 - WORLDWAX
 Architect: Culver & Peterson Architects, Inc.
 (Dallas)
 Engineer: Apollo Engineering, LLC (Apollo Beach)

Catalog Number:

VP-LJ96L-280/4K/73/UNV/MAF/HNT/

Notes:

GENI-01 SB1-12-PT20-WHT
 Notes:

Type:

S1

PUBLIC/TPA21-101789

POLE TOP BRACKETS

Cat.#

Job

Type

BEACON

Lighting

Approvals

ORDERING INFORMATION

SPOKE TYPE BRACKETS (STEEL)

(order as separate part if, field installed)

Catalog Number	Description	Max allowable load per tenon	Bracket EPA Max	Bracket weight MAX
SB1	Single	60 lbs (27.2 kg)	1.0	13
SB2-180	Twln, 2180	60 lbs (27.2 kg)	1.0	27
SB2-90	Twln, 2090	60 lbs (27.2 kg)	0.8	27
SB3-120	3 @ 90	60 lbs (27.2 kg)	0.9	36
SB3-90	3 @ 90	60 lbs (27.2 kg)	1.0	36
SB4-90	4 @ 90	60 lbs (27.2 kg)	1.0	45

SB1

SB2-180

SB2-90

SB3-120

SB3-90

SB4-90

2" PIPE (3/8" O.D.) TYPICAL

9" 6" 12" 18" 30"
 229 mm 203 mm 305 mm 457 mm 762 mm

ORDERING INFORMATION – ORDERING EXAMPLE: SB-2-180-PT20-BL

SB

-

-

-

-

CONFIGURATION	LENGTH	POLE TENON SIZE	COLOR
1-180	9"	PT20 2" pipe tenon (2.38" O.D.)	DB Dark bronze textured
2-180	12"	PT25 2.5" pipe tenon (3.86" O.D.)	BL Black textured
2-90	18"	PT35 3.5" pipe tenon (4.07" O.D.)	WHT White textured
3-120	24"		GR Gray textured
3-90	30"		PS Platinum silver smooth
4-90			GTS Light gray smooth
			BZT Bronze textured
			B87 Basic black textured

BEACON

Lighting

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Lighting

PLEB00075-01C • JUNE 14, 2019 03:58 AM

Submitted On: Jul 22, 2021

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****Drawing Not to Scale****

Top View Labels:

- 37'
- 2-3/8" x 6" Stainless Steel Tenon
- Tapered Hollow Core
- 2 1/2" x 5" Hand Hole @ 8" 6"
- End
- 3" Diameter Entry Hole Drilled @ 180°
- 3"x3" Entry Hole @ 5' 6"
- #4 Solid Copper Wire - 3'-0" Long Whip at Pole Top and at 6' Below Grade

Side View Labels:

- 30'
- grade
- 7'

End View Labels:

- Pole Base
- 6.2"
- 2"
- 6"
- 11.9"
- ø = 0.5" Diameter 7 Wire 270k Low Relaxation Cable

Seminole Pole incorporated

www.SeminolePole.com Email: SeminolePole@gmail.com
Phone: 886-245-5545 Fax: 229-524-2866

Part#: SP3730TIIH-G-SS

Project:

Pole O.A.	Burial Depth	Wind Speed	Gust	EPA Capacity
37'	7'	150mph	3 sec.	6.0

Min. Brk. Strength	Strand Info	Concrete	Pole Weight (lb)
3,500#	0.5" Diameter 270 ksi	6,500psi	2,400



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FBPE CERT. OF AUTHORITY #8370



WILDLIGHT
JPM Chase Retail Banking Center
SR-200(A1A) & HARPER CHAPEL RD
YULEE, FLORIDA 32097

[illegible]

ISSUE/BY	DATE	DESCRIPTION
1	01 12-20-2024	COUNTY SUBMITTAL
2	02 01-07-2025	COUNTY SUBMITTAL

PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

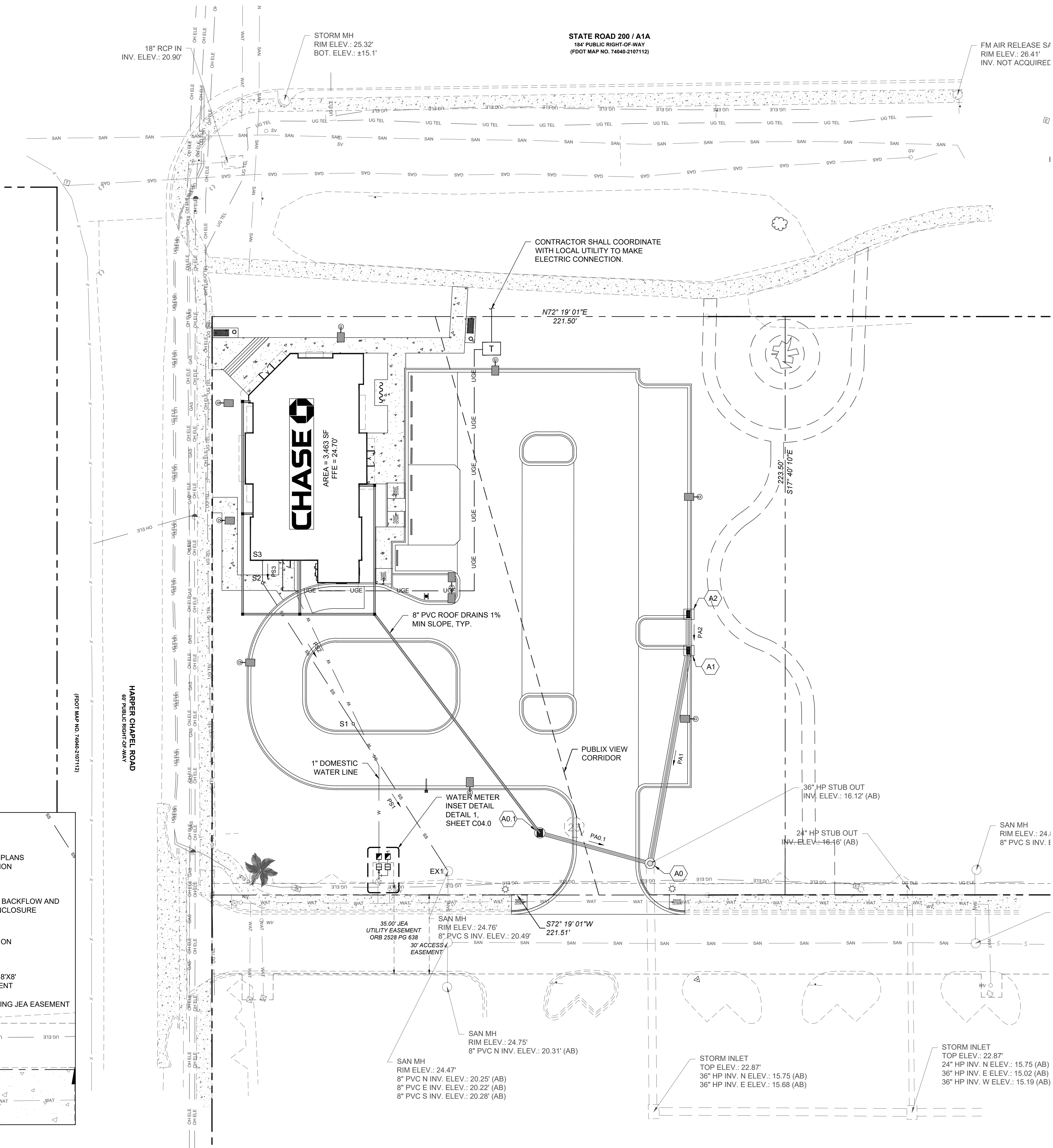
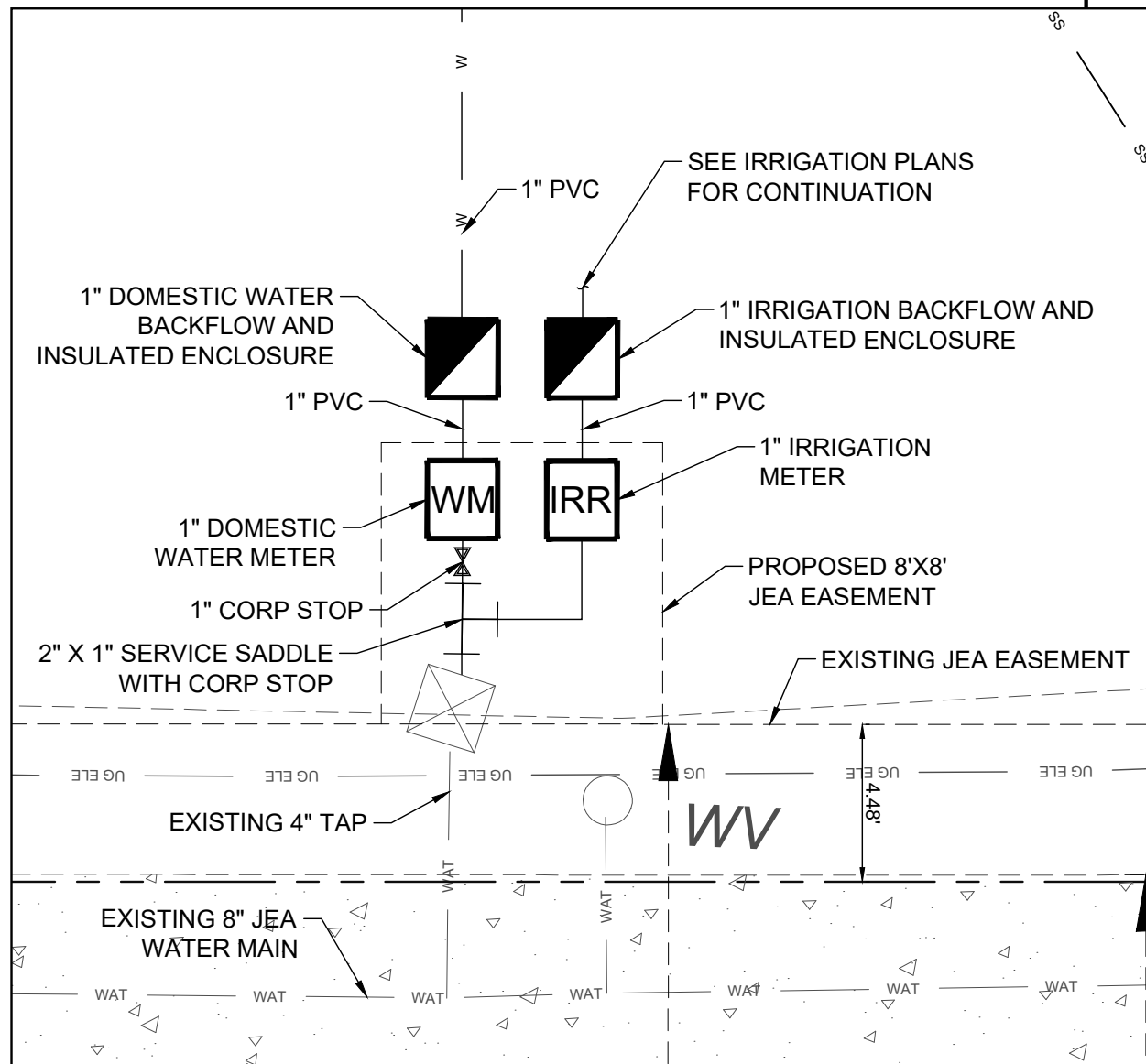
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













C03.5

ISSUE FOR PERMIT

SANITARY STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
EX1	EXISTING SSMH	24.72	20.69 (PS1)	
S1	6" CLEANOUT	24.55	21.37 (PS2)	21.37 (PS1)
S2	6" CLEANOUT	24.38	22.02 (PS3)	22.02 (PS2)
S3	BUILDING STUB OUT	24.70		22.10 (PS3)

SANITARY PIPE TABLE				
PIPE NAME	SIZE	LENGTH	SLOPE	MATERIAL
PS1	4"	67.76'	1.00%	PVC
PS2	4"	64.76'	1.00%	PVC
PS3	4"	8.76'	1.00%	PVC



UTILITY LEGEND	
UTILITIES	LINE TYPE/SYMBOL
DOMESTIC WATER LINE	— DW — DW —
FIRE WATER LINE	— FW — FW —
BUILDING FIRE SPRINKLER LINE	— FWS — FWS —
IRRIGATION WATER LINE	— IRR — IRR —
DOMESTIC WATER METER (WM)	
IRRIGATION METER (IRR)	
BACKFLOW PREVENTER (RPZ)	
DC BACKFLOW PREVENTER	
FIRE VAULT (DDC)	
WATER TAP OR TEE	
GATE VALVE (GV)	—  GV —
THRUST BLOCK (TB)	—  TB —
FIRE HYDRANT (FH)	—  FH —
FIRE DEPARTMENT CONNECTION (FDC)	—  FDC —
SANITARY SEWER (SS)	— SS — SS —
GREASE TRAP VENT LINE (GTV)	— GTV — GTV —
SANITARY MANHOLE (SSMH)	—  —
GENERAL CLEAN OUT (Co)	—  —
SANITARY STRUCTURE NUMBER	—  —
UNDERGROUND ELECTRIC LINE-PRIMARY	— UGE-P — UGE-P —
UNDERGROUND ELECTRIC LINE-SECONDARY	— UGE-S — UGE-S —
POST INDICATOR VALVE	—  —
SITE LIGHTING POLE	
TRANSFORMER PAD	
METER/CT PEDESTAL	
UNDERGROUND TELEPHONE LINE	— UGT — UGT —
GENERAL UTILITY CONDUIT	— GU — GU —
GAS LINE	— G — G —
GAS METERS	

** ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS.

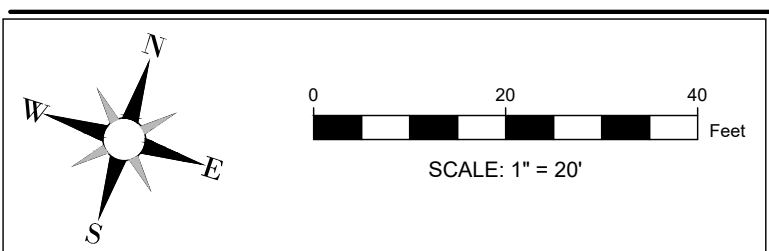
UTILITY NOTES SEE SHEET C01.1

SEE SHEET C04.1 FOR THE UTILITY
RESPONSIBILITY MATRIX

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING
FEATURES, INCLUDING BUT NOT LIMITED TO,
UTILITIES, EXISTING IMPROVEMENTS, ETC.
CONTRACTOR SHALL VERIFY THEIR LOCATIONS
AND ELEVATIONS PRIOR TO STARTING
CONSTRUCTION AND ALERT ENGINEER TO ANY
DISCREPANCIES IMMEDIATELY



**24-HOUR CONTACT:
RICK CAHILL
813-494-6736**



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SEAL

ISSUE/BY	DATE	DESCRIPTION
1 01	12-20-2024	COUNTY SUBMITTAL
2 02	01-07-2025	COUNTY SUBMITTAL

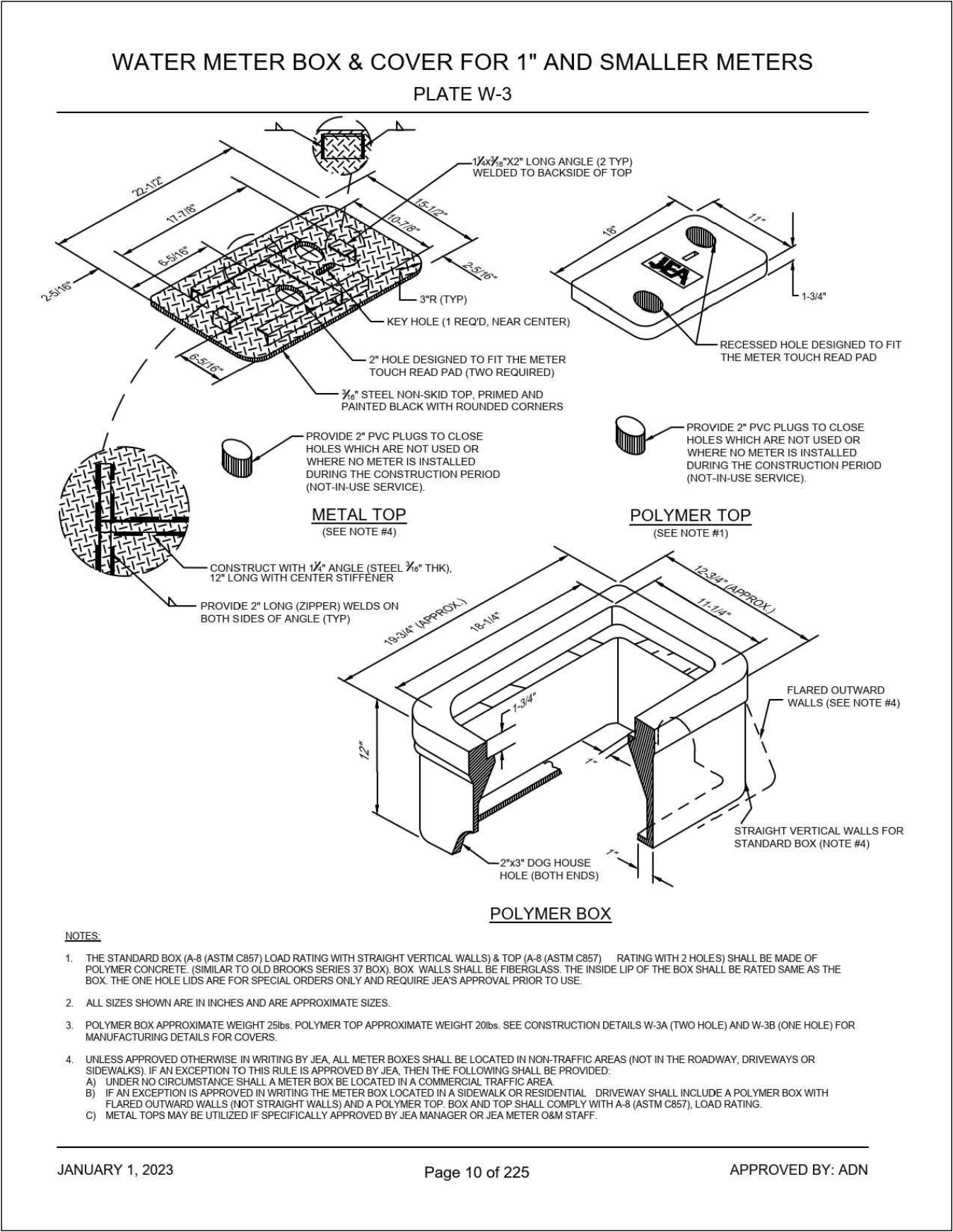
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JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

UTILITY PLAN

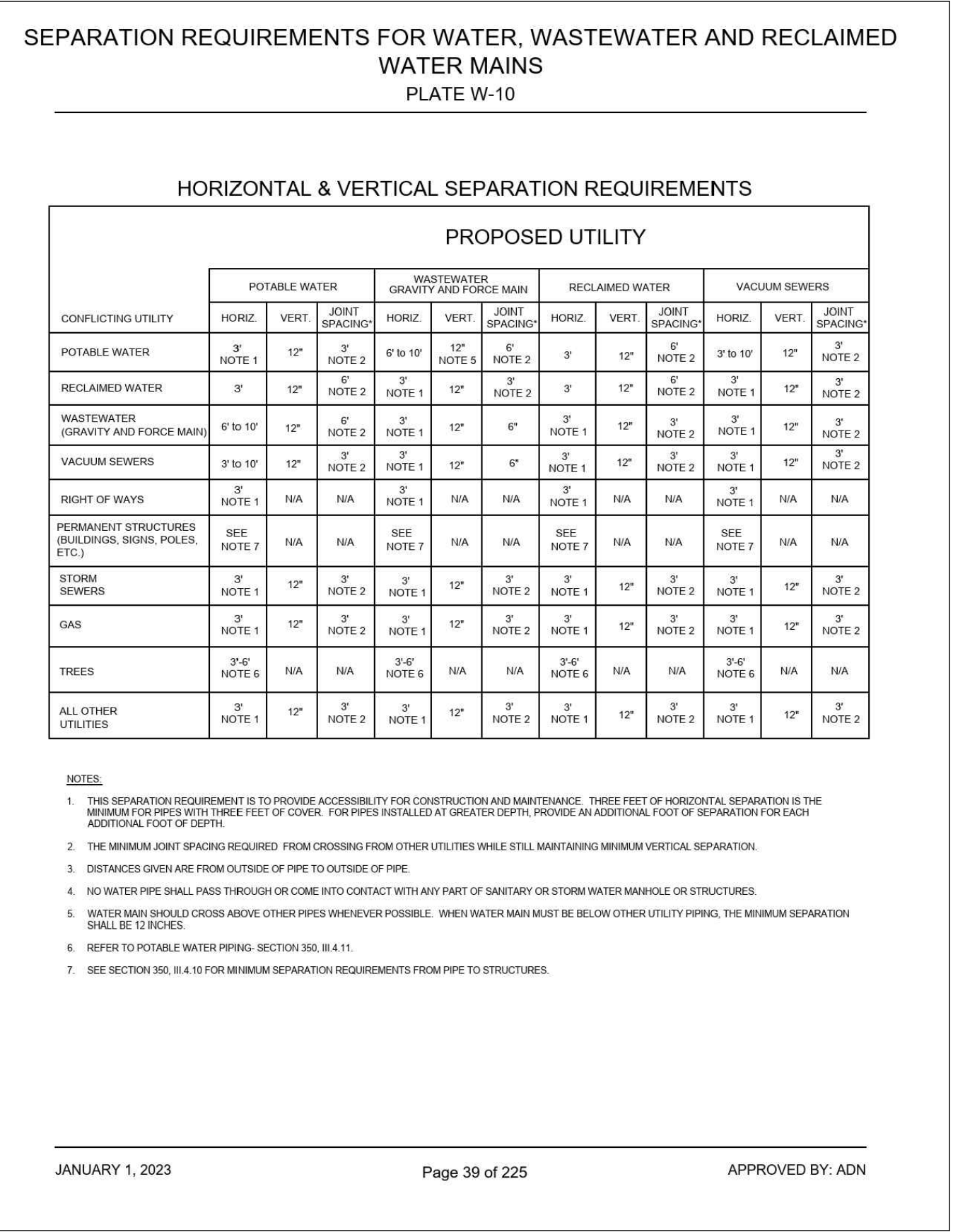
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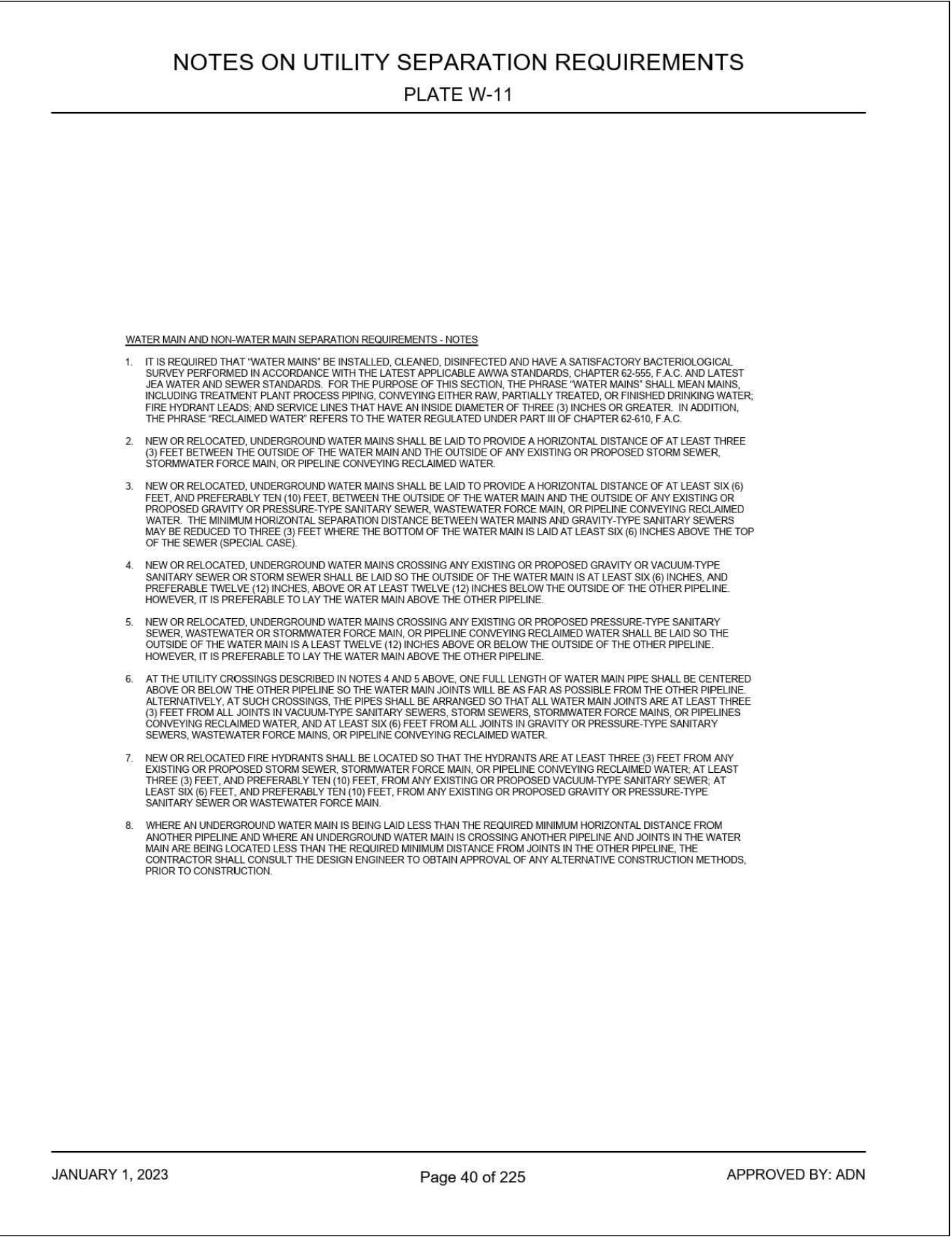
ISSUE FOR PERMIT



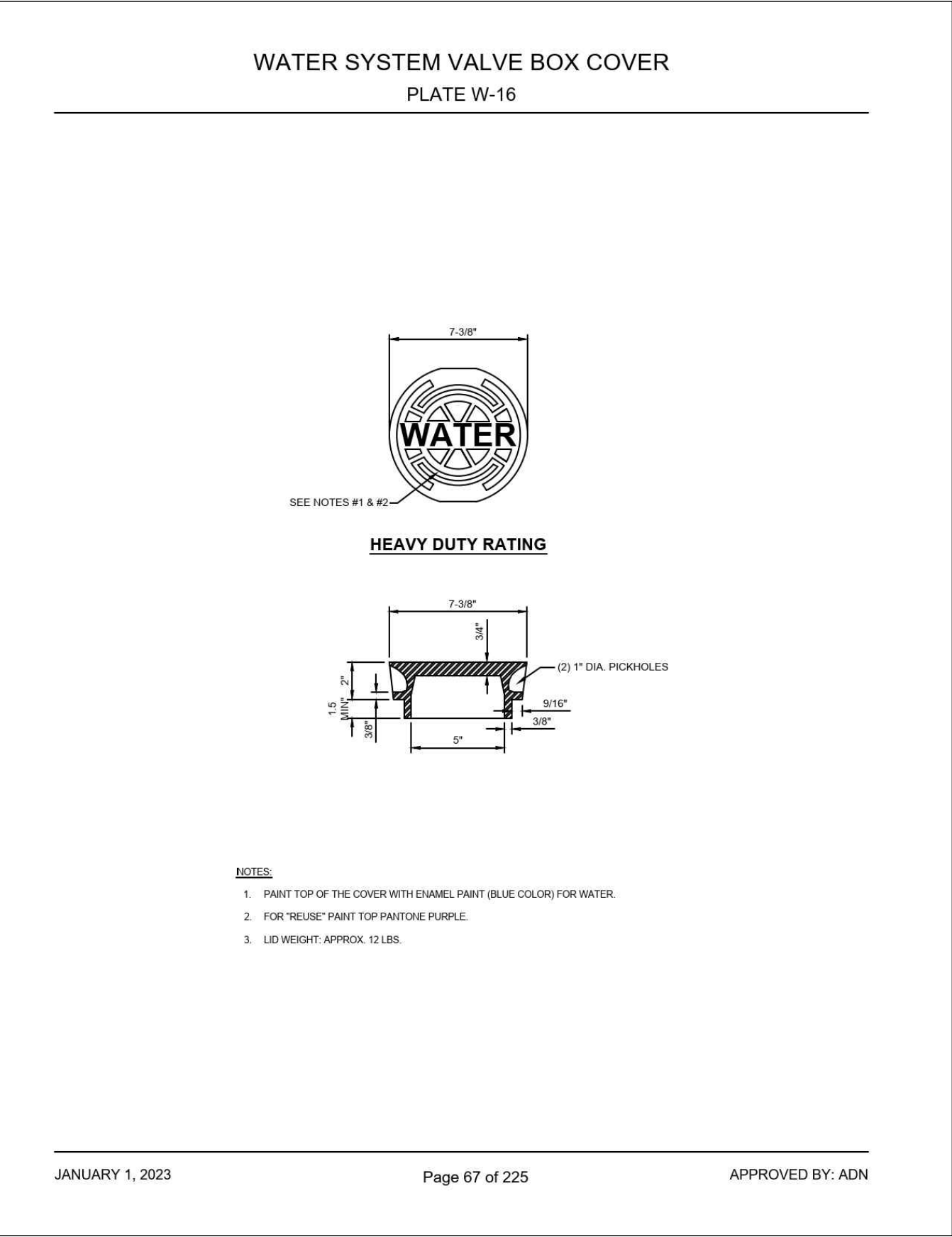
1 JEA WATER METER BOX & COVER - 1" & SMALLER NTS



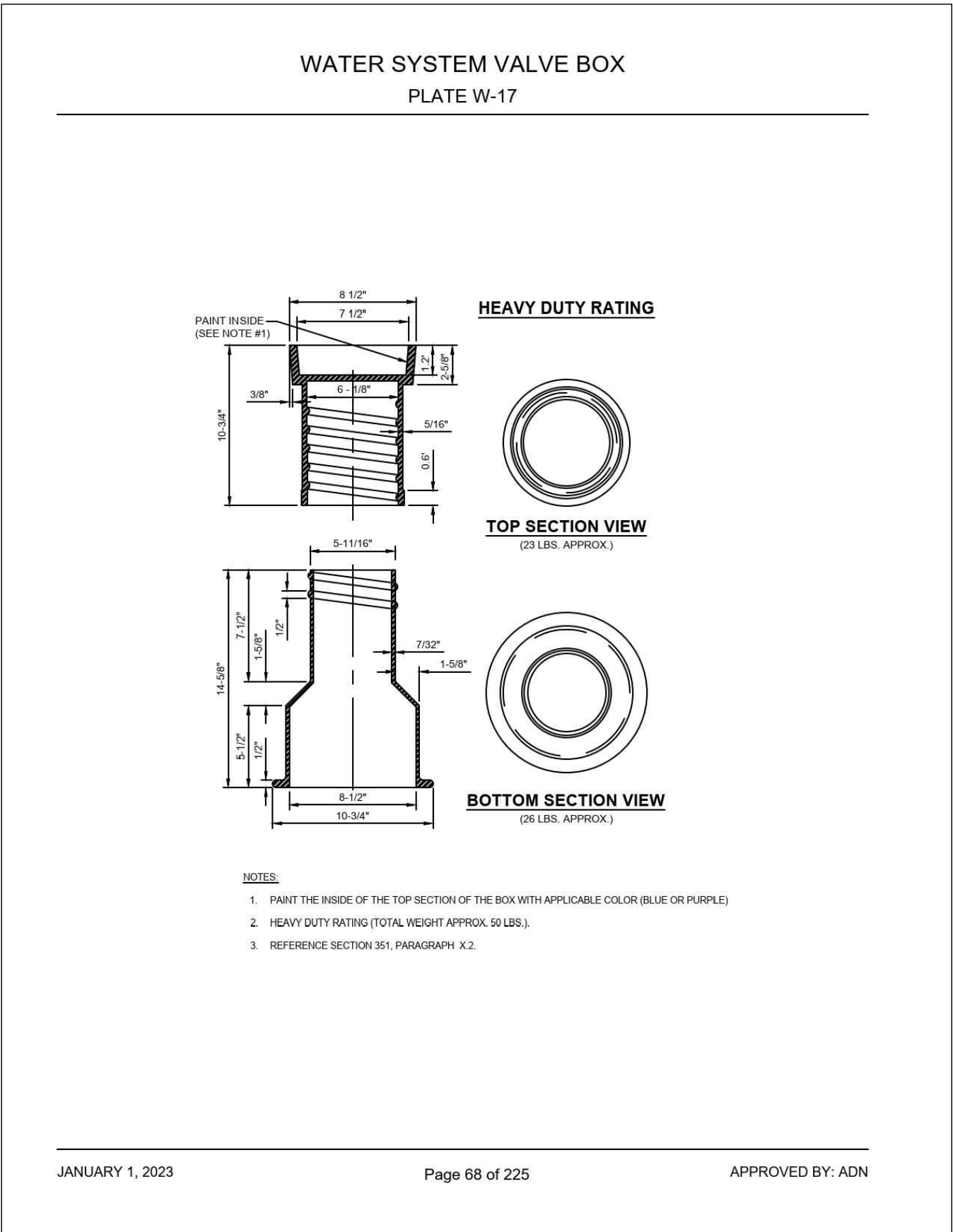
2 JEA WATER SEPARATION REQUIREMENTS NTS



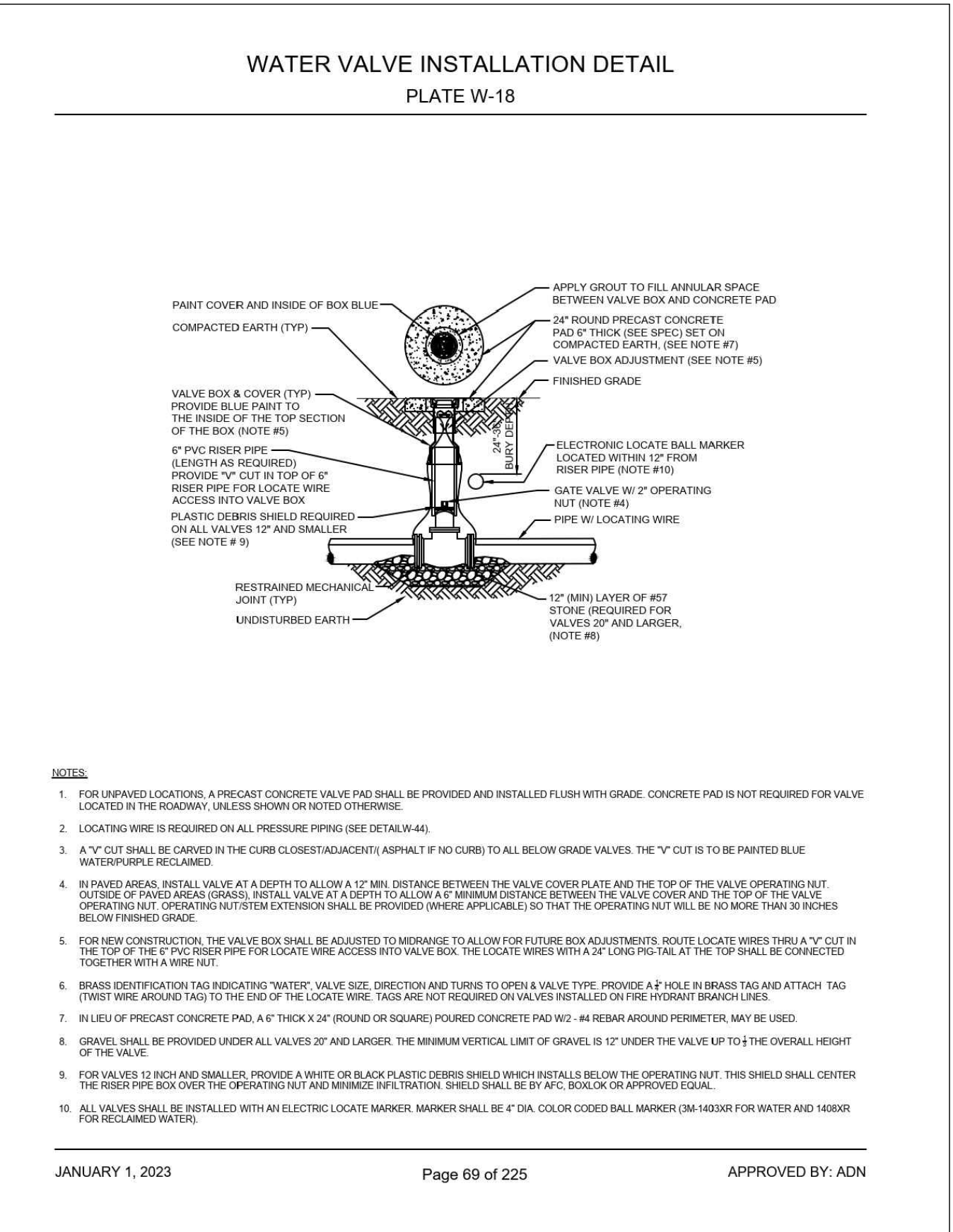
3 JEA WATER SEPARATION REQUIREMENT NOTES NTS



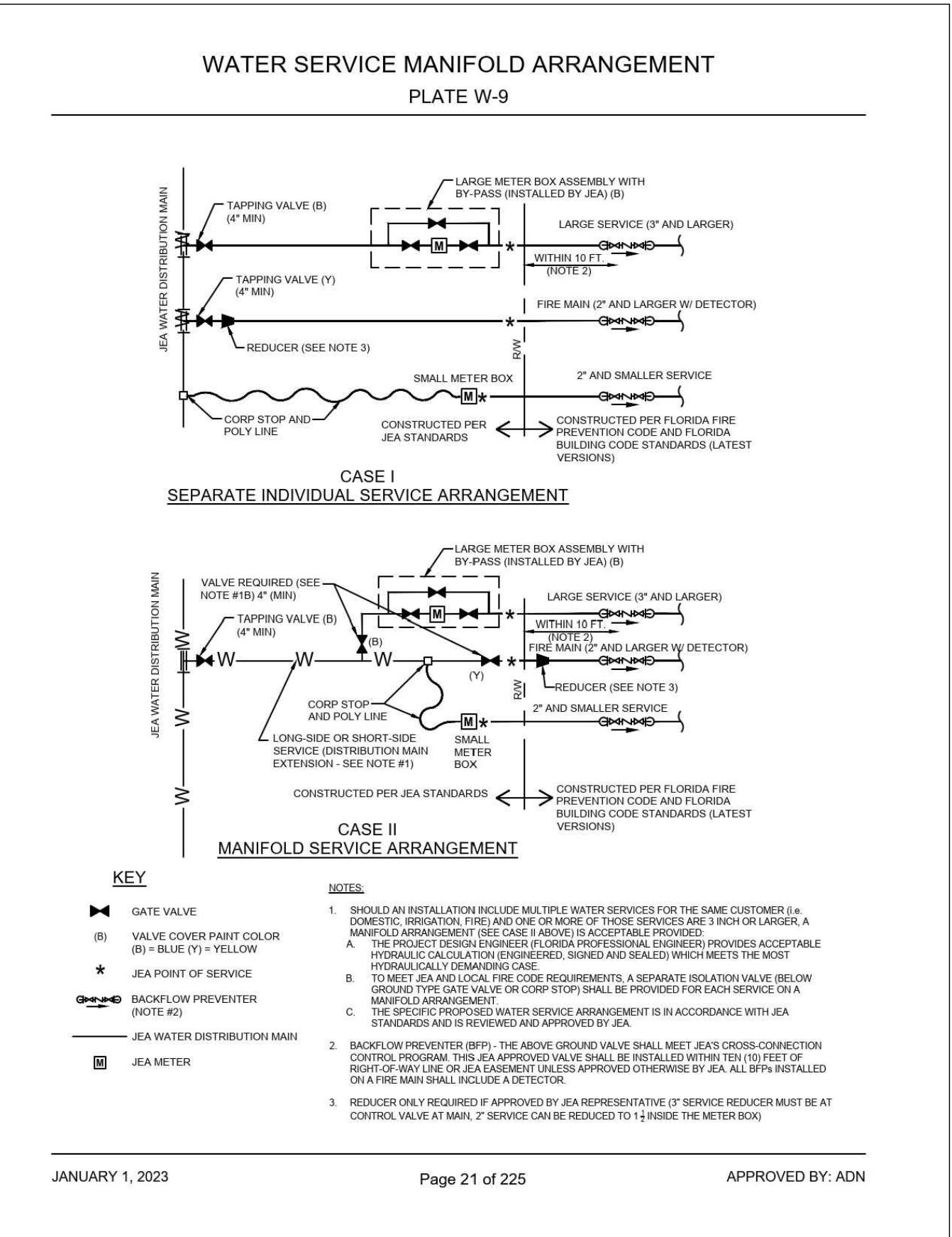
4 JEA WATER VALVE BOX COVER NTS



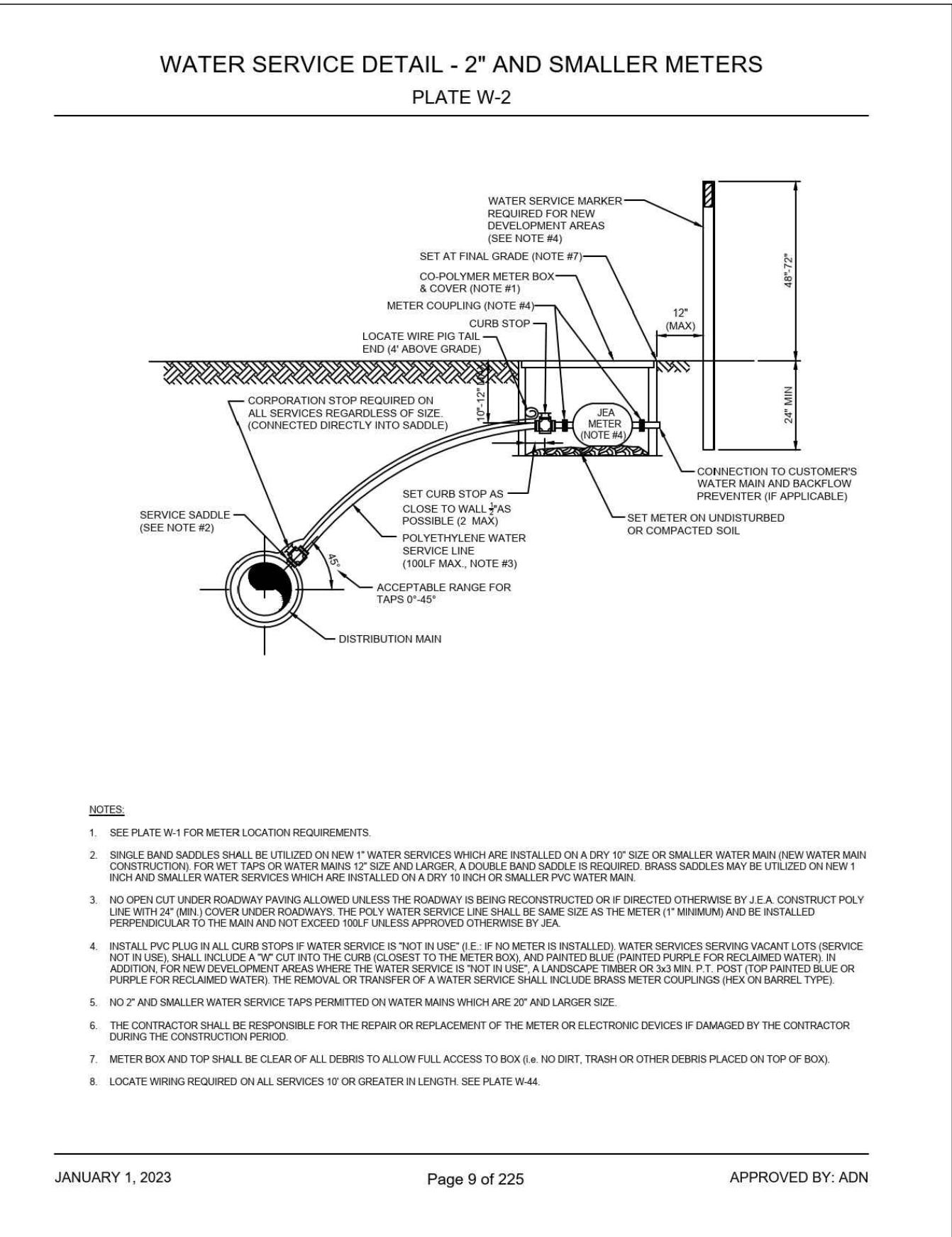
5 JEA WATER VALVE BOX NTS



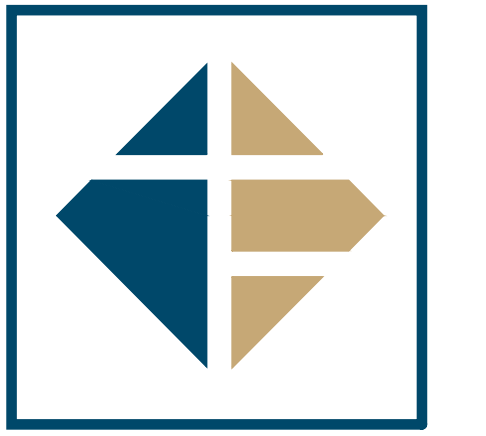
6 JEA WATER VALVE INSTALLATION NTS




7 JEA WATER METER ARRANGEMENT NTS



8 JEA WATER SERVICE DETAIL NTS



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ISSUE/	DATE	DESCRIPTION
1	01-12-20-2024	COUNTY SUBMITTAL
2	02-01-07-2025	COUNTY SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #: 234028

DATE: 08-02-2024

DRAWN BY: RH/MH/MZ

CHECKED BY: EH

INGENIUM PROJECT #: 230066

SHEET TITLE

UTILITY DETAILS I

SHEET NUMBER

C04.1

ISSUE FOR PERMIT

Diagram of a 7-3/8 inch diameter sewer manhole cover. The cover is circular with a central 'X' pattern and the word 'SEWER' in the center.

1. PAINT TOP OF THE COVER WITH ENAMEL PAINT (GREEN COLOR)
2. LID WEIGHT: APPROX. 12 LBS.

APPROVED BY: ADM

1. TO MARK THE LOCATION OF THE 6" PIPES FOR NEW SERVICE, FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN "ALTERNATE" SEWER MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE BEING INSTALLED FOR FUTURE USE AT A MAXIMUM DEPTH OF 3' AT FINISH GRADE. FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS 7"01" IN SIZE, A LANDSCAPE TAMBER OR 3/4" MIN. P.O.P. POST (TOP PAINTED GREEN) SHALL BE INSTALLED, WHERE REQUIRED, BY JEA OR CONCRETE CURB EXIST, AN "ALTERNATE" SEWER MARKER SHALL BE INSTALLED TO MARKER SHALL ALSO BE INSTALLED.
2. 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).
3. NO SEWER SERVICE CONNECTIONS PERMITTED ON GRAVITY SEWER PIPE WHICH ARE 16" AND LARGER.
4. ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTING) SHALL BE PVC SDR 26.

APPROVED BY: ADM

SEWER SERVICE LATERAL MARKER
REQUIRED FOR NEW DEVELOPMENT
AREAS (SEE NOTE #1)

12" MAX.

WIDTH OF RIGHT-OF-WAY VARIES

CURB & GUTTER

AVG. GROUND SURFACE

ENGRAVE IN CURB THE LETTER
"S" AT SEWER HOUSE SERVICE
LOCATION (PAINT GREEN)
1/2" OF PAVEMENT

ELECTRIC "SHOCK" MARKER
(SEE NOTE#1)

3/4" MIN. COVER

EXIST. 4" VARD PIPING
CONNECTION TO BE LOC.
PRIOR TO INSTALLING TRENCH
BRANCH; PROVIDE FLOOR
ADAPTER COUPLING.

LAY IN UNDISTURBED SOIL

WIDTH OF TRENCH
(NOTE #6)

4" PIPE
MIN. SLOPE
1/8" PER FOOT

90° BEND
LAY IN COMPACTED
SOIL

STANDARD TEESAVE FITTING
(30" MAX. 60" MAX.)

PROVIDE 6" PLUG
OR CONNECTION TO
YARD PIPING

DEPTH (SEE NOTE #1)

12" MAX. SEE NOTE #1

FOR PLAN VIEW SEE S-19

[illegible]

APPROVED BY: ADM

A schematic diagram of a curved pipe installation. A thick black curved line represents the pipe, starting from the left and curving downwards to the right. The pipe is surrounded by a stippled area representing the ground. At the right end of the pipe, a drilling rig is shown. Labels with leader lines point to various components: 'PIPE (INSERTION) DRILL EXIT ANGLE' points to the angle between the pipe and a vertical line; 'PIPE PULL HEAD' points to the top part of the drilling rig; 'SWIVEL' points to a joint in the rig; and 'DRILL STEM' points to the lower part of the rig. Two vertical lines on the right are labeled '33'.

- PIPE SIZES GREATER THAN 12" SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), CALCULATIONS SUPPLIED BY THE DESIGNED ENGINEER

APPROVED BY: ADM

NTS

NTS

NTS

NTS

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"	6" NOTE 2	6" to 10"	3"	NOTE 2	3"	12"	6" NOTE 2	3" to 10"	12"	NOTE 2
RECLAIMED WATER	3"	12"	6" NOTE 2	3" NOTE 1	12"	NOTE 2	3"	12"	6" NOTE 2	3" NOTE 1	12"	NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6" to 10"	12"	6" NOTE 2	6" NOTE 1	12"	6"	3" NOTE 1	12"	3" NOTE 2	3" NOTE 1	12"	NOTE 2
VACUUM SEWERS	3" to 10"	12"	3" NOTE 2	NOTE 1	12"	6"	3" NOTE 1	12"	3" NOTE 2	3" NOTE 1	12"	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
UTILITY 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 1	3" NOTE 1	12"	NOTE 2	12"	NOTE 2	3" NOTE 1	12"	NOTE 2	NOTE 2
GAS	3" NOTE 1	12"	NOTE 2	12"	NOTE 1	12"	3" NOTE 1	12"	NOTE 2	3" NOTE 1	12"	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	3"	NOTE 2	NOTE 1	12"	3" NOTE 2	3" NOTE 1	12"	3" NOTE 2	3" NOTE 1	12"	3" NOTE 2

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THESE ARE FEET OF HORIZONTAL SEPARATION BETWEEN THE MINIMUM 12 INCHES OF COVER FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MAINS OR STRUCTURES.
5. WATER MAIN SHALL CROSS ABOVE OTHER UTILITIES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
6. REFER TO SECTION 429, II.4.2.
7. REFER TO SECTION 429, II.4.1 FOR MINIMUM SEPARATION REQUIREMENTS FROM PIPE TO STRUCTURES.

APPROVED BY: ADM

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

- [illegible]

APPROVED BY: ADM

APPLY GROUT TO FILL ANNUAL SPACE BETWEEN VALVE BOX AND CONCRETE PAD

2" RIGID PRECAST CONCRETE PAD 4" THICK (SEE SPEC SET ON COMPACTED EARTH) (SEE NOTE 8)

VALVE BOX ADJUSTMENT (SEE NOTE 5)

FINISHED GRADE

2" RIGID PRECAST CONCRETE PAD 4" THICK (SEE SPEC SET ON COMPACTED EARTH) (SEE NOTE 8)

ELECTRONIC LOCATE BALL MARKER LOCATED WITHIN 12" FROM RISE PIPE (NOTE 10)

GATE VALVE W/ 2" OPERATING NUT (NOTE 8)

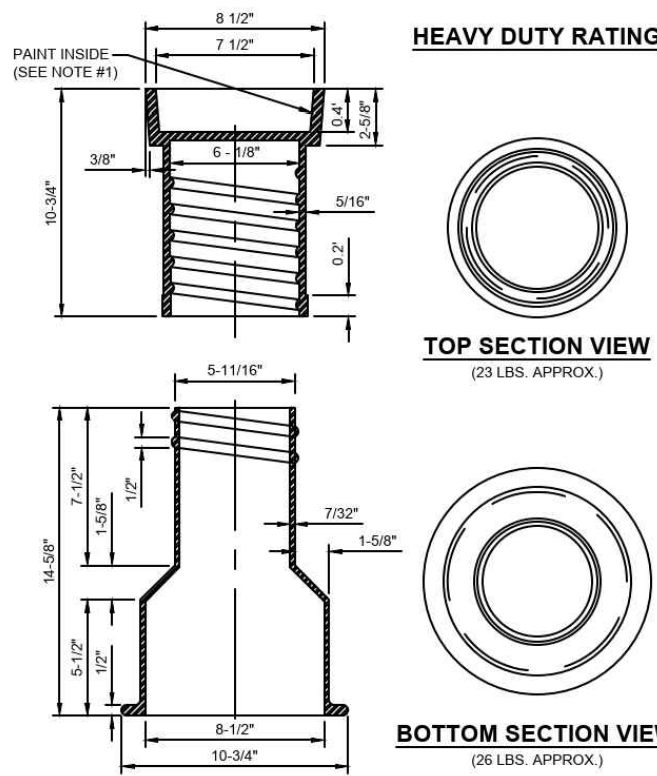
PIPE W/ LOCATING WIRE

12" (MIN) LAYER OF 45# STONE REQUIRED FOR VALVES 20" AND LARGER

[illegible]

APPROVED BY: ADM

HEAVY DUTY RATING



1. PAINT THE INSIDE OF THE TOP SECTION OF THE BOX WITH GREEN COLOR.
2. HEAVY DUTY RATING (TOTAL WEIGHT APPROX. 50 LBS.).
3. REFERENCE SECTION 430, PARAGRAPH VI.2.

APPROVED BY: ADM

NTS

NTS

NTS

NTS

[illegible]

SEAL

ISSUE/BY	DATE	DESCRIPTION
1 01	12-20-2024	COUNTY SUBMITTAL
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PROJECT INFORMATION BLOCK

JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

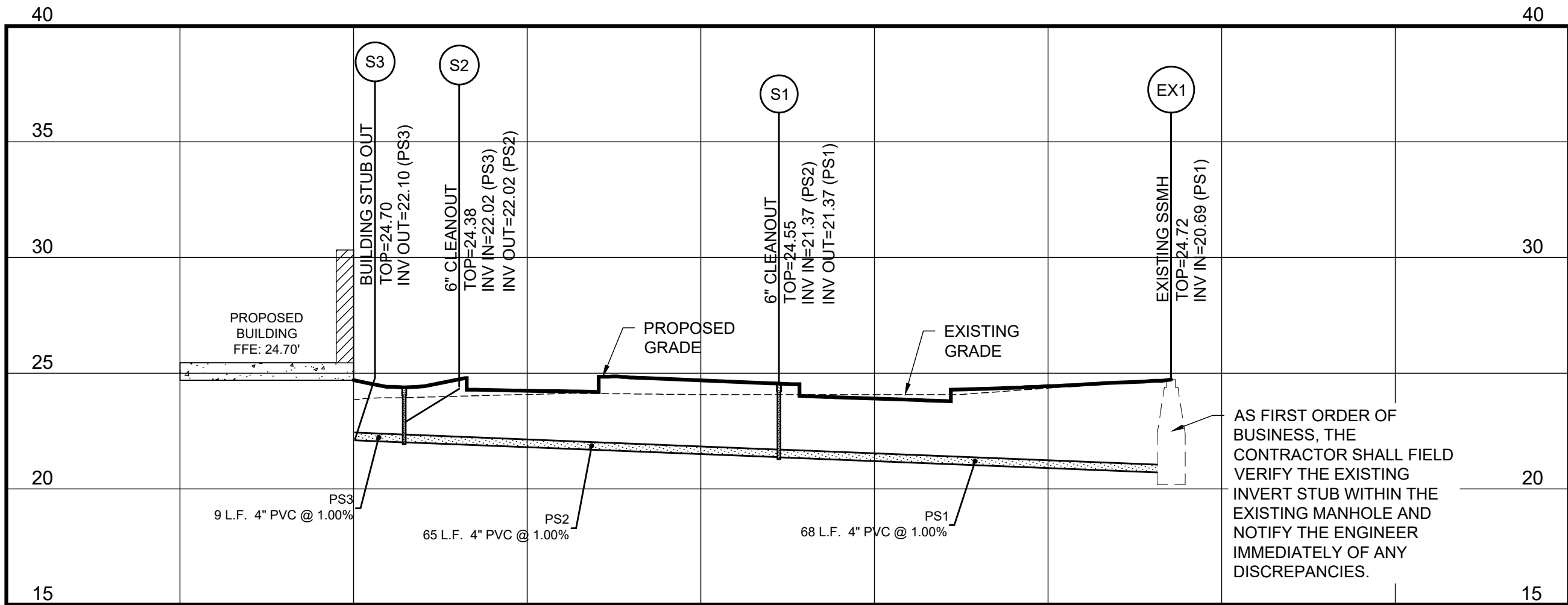
UTILITY DETAILS II

SHEET NUMBER

C04.2

ISSUE FOR PERMIT

SANITARY PROFILE S2-EX1



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

SANITARY STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
EX1	EXISTING SSMH	24.72	20.69 (PS1)	
S1	6" CLEANOUT	24.55	21.37 (PS2)	21.37 (PS1)
S2	6" CLEANOUT	24.38	22.02 (PS3)	22.02 (PS2)
S3	BUILDING STUB OUT	24.70		22.10 (PS3)

SANITARY PIPE TABLE				
PIPE NAME	SIZE	LENGTH	SLOPE	MATERIAL
PS1	4"	67.76'	1.00%	PVC
PS2	4"	64.76'	1.00%	PVC
PS3	4"	8.76'	1.00%	PVC

PROFILE NOTES

- CONTROLLED BACK FILL TO BE PLACED IN 6" LOOSE LIFT AND COMPACTED TO 100% ASTM D698 PRIOR TO STORM AND SANITARY SEWER CONSTRUCTION. BACK FILL SHALL BE PLACED TO A MINIMUM OF ±2' ABOVE THE CROWN ELEVATION OF THE PIPES.
- STORM DRAIN AND SANITARY SEWER LENGTHS ARE MEASURED FROM CENTER LINE OF STRUCTURE TO CENTERLINE OF STRUCTURE OR FACE OF HEADWALL.
- ALL PIPE LENGTHS SHOWN ARE ROUNDED TO THE NEAREST FOOT.
- ALL STORM DRAIN PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 1 ON SHEET C04.3 UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL SANITARY SEWER PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH JEA STANDARDS UNLESS SPECIFICALLY NOTED OTHERWISE.
- UNFORESEEN SUBSURFACE CONDITIONS SHALL BE BROUGHT TO THE OWNERS AND ENGINEER'S ATTENTION IMMEDIATELY IMPLEMENTATION OF CORRECTIVE BEDDING MEASURES WITHOUT THE OWNER'S APPROVAL SHALL BE AT THE CONTRACTOR'S OWN RISK AND AT NO ADDITIONAL COMPENSATION.
- EXISTING GRADES SHOWN ARE APPROXIMATE AND DO NOT REFLECT TOP SOIL REMOVAL, CLEARING, AND GRUBBING OPERATIONS. THE CONTRACTOR SHALL ASCERTAIN FOR HIMSELF THE EXTENT OF DISTURBANCE FOR THESE ACTIVITIES.
- EXCAVATIONS FOR STRUCTURES SHALL BE TAKEN AS A TRENCHING EXCAVATION WITHOUT FURTHER COMPENSATION.
- SEE SHEET C01.1 FOR GENERAL NOTES.



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FBPE CERT. OF AUTHORITY #8370



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PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

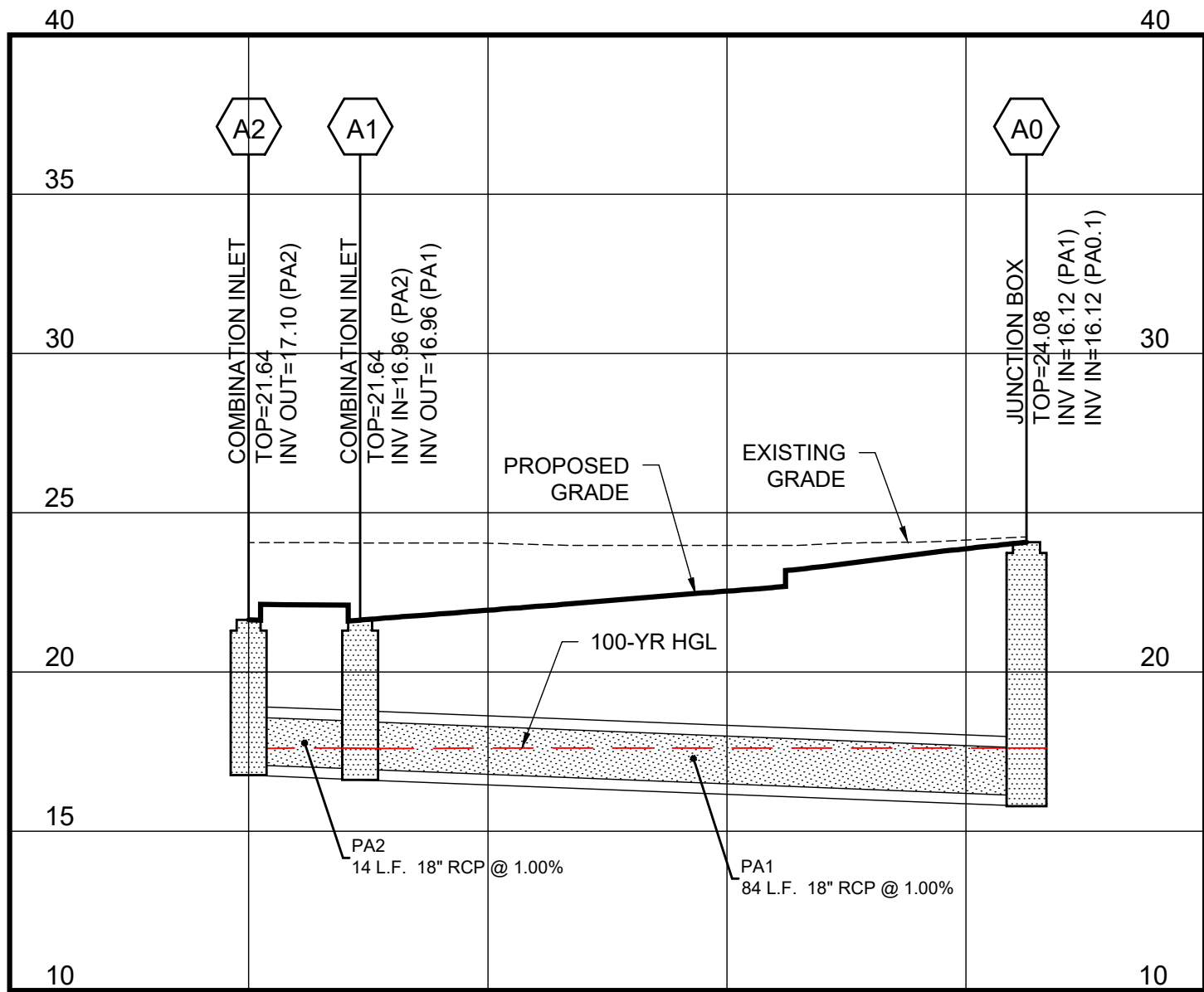
PIPE PROFILES I

SHEET NUMBER

C04.4

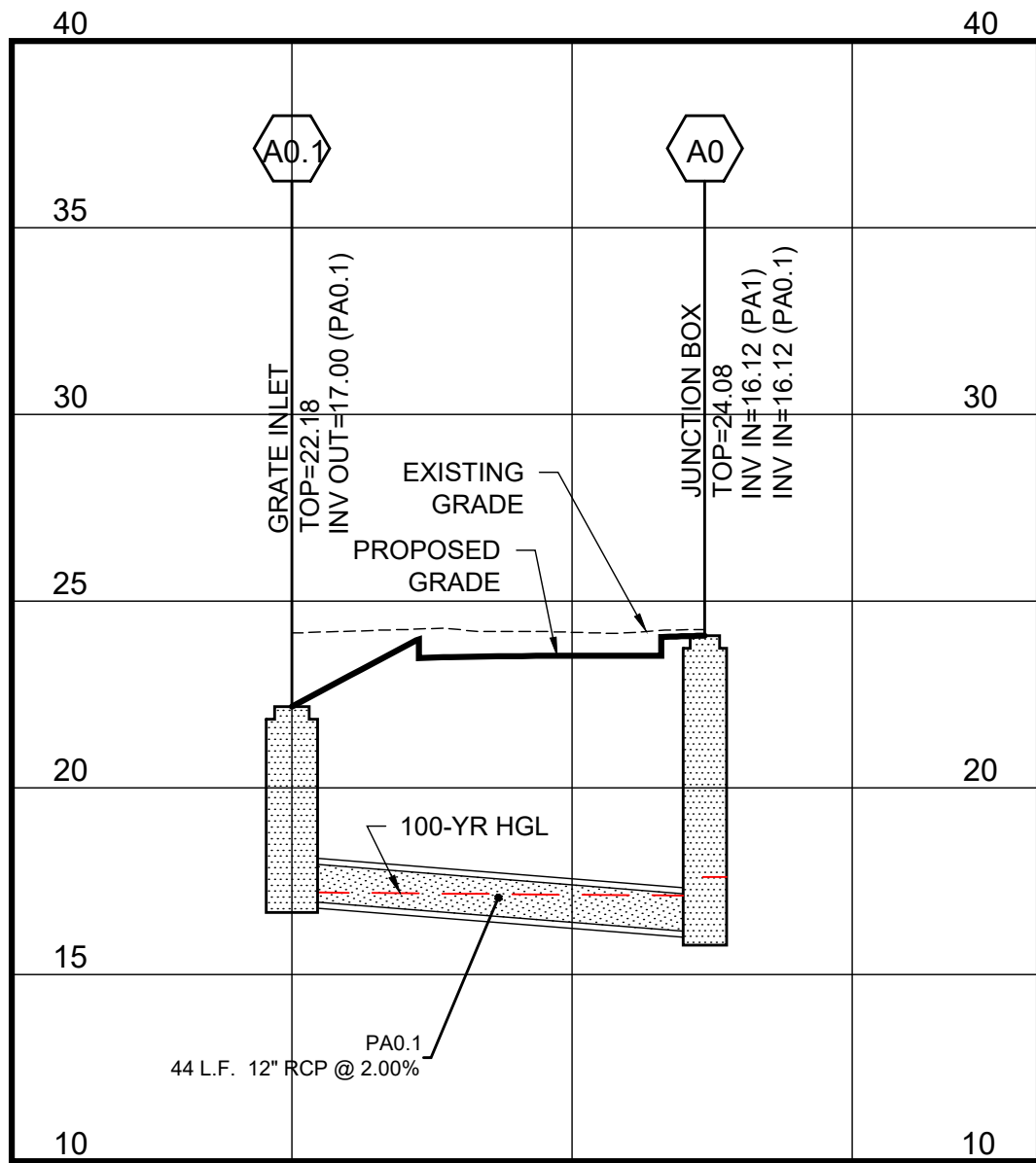
ISSUE FOR PERMIT

STORM PROFILE A2-A0



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

STORM PROFILE A0.1-A0



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

STORM STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
A0	JUNCTION BOX	24.08	16.12 (PA1) 16.12 (PA0.1)	
A0.1	GRATE INLET	22.18		17.00 (PA0.1)
A1	COMBINATION INLET	21.64	16.96 (PA2)	16.96 (PA1)
A2	COMBINATION INLET	21.64		17.10 (PA2)

STORM PIPE TABLE				
PIPE NAME	SIZE	LENGTH	SLOPE	MATERIAL
PA0.1	12"	44.22'	2.00%	RCP
PA1	18"	83.62'	1.00%	RCP
PA2	18"	14.00'	1.00%	RCP

PROFILE NOTES

- CONTROLLED BACK FILL TO BE PLACED IN 6" LOOSE LIFT AND COMPACTED TO 100% ASTM D698 PRIOR TO STORM AND SANITARY SEWER CONSTRUCTION. BACK FILL SHALL BE PLACED TO A MINIMUM OF ±2' ABOVE THE CROWN ELEVATION OF THE PIPES.
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- ALL PIPE LENGTHS SHOWN ARE ROUNDED TO THE NEAREST FOOT.
- ALL STORM DRAIN PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 1 ON SHEET C04.5 UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL SANITARY SEWER PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH JEI STANDARDS UNLESS SPECIFICALLY NOTED OTHERWISE.
- UNFORESEEN SUBSURFACE CONDITIONS SHALL BE BROUGHT TO THE OWNERS AND ENGINEER'S ATTENTION IMMEDIATELY IMPLEMENTATION OF CORRECTIVE BEDDING MEASURES WITHOUT THE OWNER'S APPROVAL SHALL BE AT THE CONTRACTOR'S OWN RISK AND AT NO ADDITIONAL COMPENSATION.
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CHASE

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PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

PIPE PROFILES II

SHEET NUMBER

C04.5

ISSUE FOR PERMIT

Storm Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Junction Type
3	PA0.1	2.26	12	Cir	44.211	16.12	17.00	1.990	17.12	17.64	n/a	17.64		DropGrate
2	PA2	2.91	18	Cir	14.000	16.96	17.10	1.000	17.90	17.75	0.25	17.75	1	Combination
1	PA1	5.96	18	Cir	83.618	16.12	16.96	1.005	17.52	17.90	n/a	17.90		Combination

Project File: New.stm
Number of lines: 3
Run Date: 8/2/2024

NOTES: Return period = 100 Yrs. ; j - Line contains hyd. jump.

FL-DOT Report

Line No.	To Line	Type of struc.	n - Value	Len (ft)	Drainage Area (ac)	Time of conc (min)	Time of Flow in sect (min)	Inten (in/hr)	Total CA (ac)	Add Q (cfs)	Inlet elev (ft)	Elev of HGL (ft)	Elev of Crown (ft)	Elev of Invert (ft)	Rise (in)	HGL Span (ft)	ADD Full Flow (cfs)	Date: 8/2/2024
3	---	End	DrGr	0.011	44.211	0.00	0.00	0.00	2.02	2.26	22.18	17.64	17.12	0.52	12	1.18	3.56	PA0.1
2	1	Comb	0.011	14.000	0.00	0.00	0.00	0.00	0.07	9.83	0.30	0.00	17.75	17.80	-0.15	18	-1.10	2.91
1	End	Comb	0.011	83.618	0.00	0.00	0.00	0.00	0.33	9.81	0.61	0.00	17.90	17.82	0.28	18	0.34	5.96

Project File: New.stm

Inlet Report

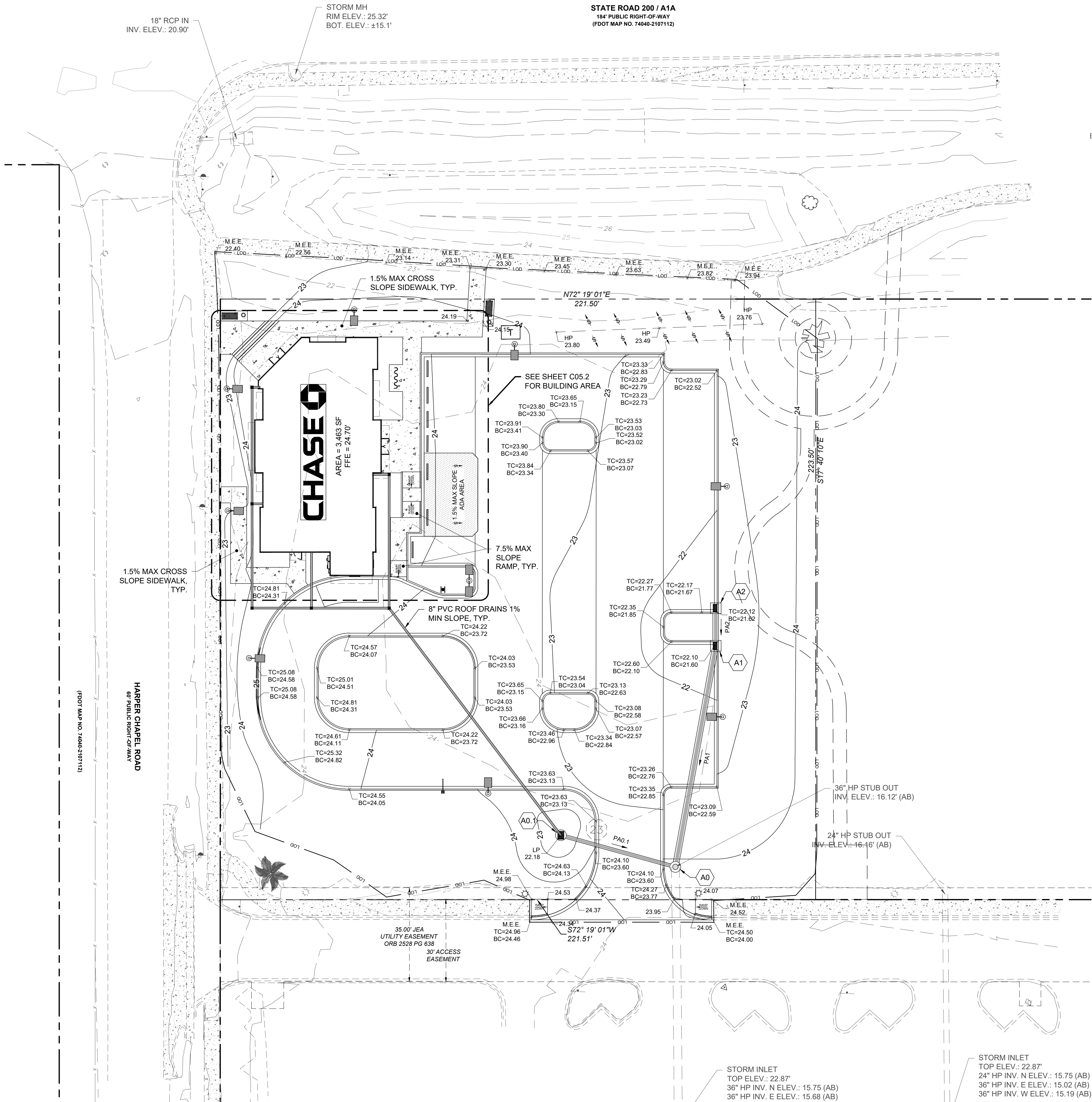
Line No	Inlet ID	Q = CIA	Q carry	Q capt	Q Byp	Junc Type	Curb Inlet				Grate Inlet				Gutter							Inlet			Byp Line No
		(cfs)	(cfs)	(cfs)	(cfs)		H (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depth (in)				
3	A0.1	2.26*	0.00	2.26	0.00	DrGr	0.0	0.00	2.00	3.00	2.30	Sag	3.00	0.200	0.200	0.000	0.17	4.72	0.17	4.72	0.0	Off			
2	A2	2.91	0.00	2.91	0.00	Comb	4.0	3.00	1.14	3.00	2.00	Sag	1.50	0.050	0.020	0.000	0.30	12.93	0.31	12.93	0.1	Off			
1	A1	3.06	0.00	3.06	0.00	Comb	4.0	3.00	1.14	3.00	2.00	Sag	1.50	0.050	0.020	0.000	0.31	13.36	0.32	13.36	0.1	Off			
																		</							

Hydraulic Grade Line Computations

Line	Size	Q	Downstream							Len	Upstream							Check		JL coeff	Minor loss		
			Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)		Sf (%)	Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)			Ave Sf (%)	Energy loss (ft)
(in)	(cfs)								(ft)										(ft)				
3	12	2.28	16.12	17.12	1.00*	0.53	2.88	0.13	17.25	0.289	44.211	17.00	17.64	0.64**	0.53	4.24	0.28	17.92	0.521	0.405	n/a	1.00	n/a
2	18	2.91	16.96	17.90	0.94	0.73	2.50	0.25	18.15	0.000	14.000	17.10	17.75	0.65**	0.73	3.99	0.25	18.00	0.000	0.000	n/a	1.00	0.25
1	18	5.96	16.12	17.62	1.50	1.17	3.37	0.18	17.80	0.230	83.618	16.96	17.90	0.94**	1.17	5.10	0.40	18.31	0.445	0.338	n/a	0.50	0.20
													Number of lines: 3					Run Date: 8/2/2024					
Notes: * depth assumed. ** Critical depth. ; j-Line contains hyd. jump. ; c = cir. e = ellip. b = box.																							

STORM STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
A0	JUNCTION BOX	24.08	16.12 (PA1) 16.12 (PA0.1)	
A0.1	GRATE INLET	22.18		17.00 (PA0.1)
A1	COMBINATION INLET	21.64	16.96 (PA2)	16.96 (PA1)
A2	COMBINATION INLET	21.64		17.10 (PA2)

STORM PIPE TABLE				
PIPE NAME	SIZE	LENGTH	SLOPE	MATERIAL
PA0.1	12"	44.22'	2.00%	RCP
PA1	18"	83.62'	1.00%	RCP
PA2	18"	14.00'	1.00%	RCP



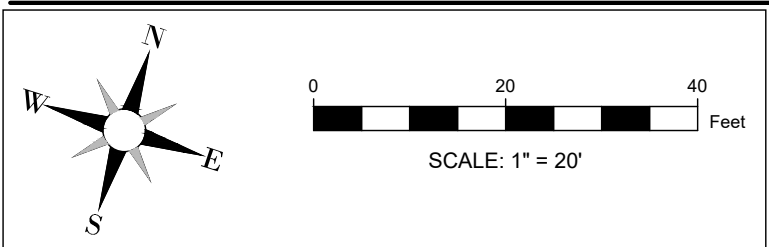
GRADING & DRAINAGE LEGEND	
GRADING / DRAINAGE	LINETYPE/SYMBOL
GRADE	1000
PROPOSED SPOT ELEVATION	1000.00
MATCH EXISTING SPOT	M.E.E.
MATCH EXISTING SPOT W/ ESTIMATED EXISTING ELEVATION	M.E.E. 1000.00
STORM DRAIN	
HEADWALL (HW) / FLARED END SECTION (FES)	
DROP INLET (GRATE)	
DROP INLET (GRATE AND HOOD)	
JUNCTION BOX (JB) / OCS	
CATCH BASIN (SINGLE WING)	
CATCH BASIN (DOUBLE WING)	
PEDESTAL TOP	
STORM STRUCTURE NUMBER	A3
SLOPE ARROW	

GRADING NOTES SEE SHEET C01.1

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813-494-6736



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FBPE CERT. OF AUTHORITY #8370



WILDLIGHT
JPM Chase Retail Banking Center
SR-200(A1A) & HARPER CHAPEL RD
YULEE, FLORIDA 32097

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SEAL

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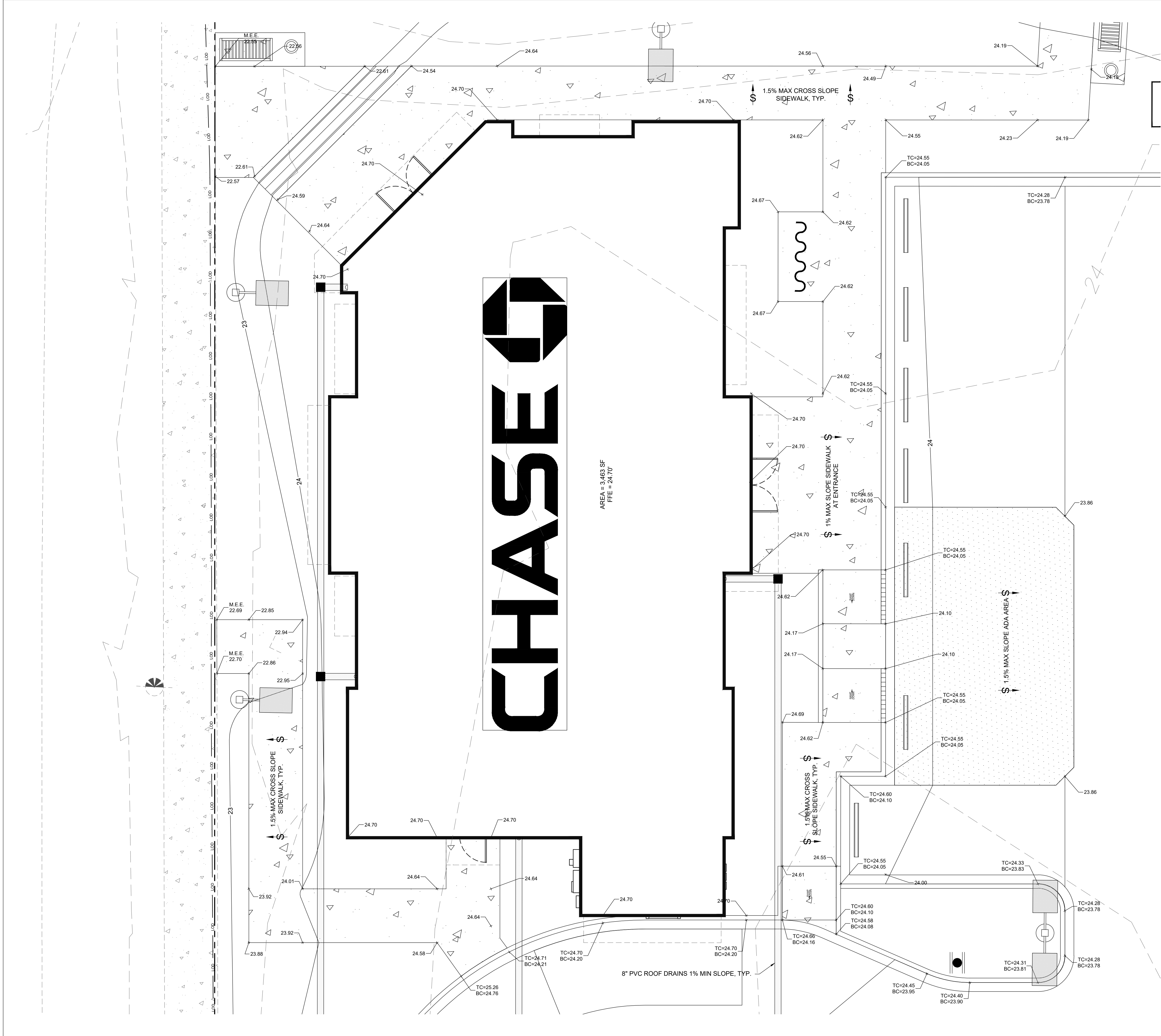
PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

GRADING AND DRAINAGE PLAN

SHEET NUMBER

C05.0

ISSUE FOR PERMIT



GRADING & DRAINAGE LEGEND	
GRADING / DRAINAGE	LINETYPE/SYMBOL
GRADE	1000
PROPOSED SPOT ELEVATION	1000.00
MATCH EXISTING SPOT	M.E.E.
MATCH EXISTING SPOT W/ ESTIMATED EXISTING ELEVATION	M.E.E. 1000.00
STORM DRAIN	
HEADWALL (HW) / FLARED END SECTION (FES)	
DROP INLET (GRATE)	
DROP INLET (GRATE AND HOOD)	
JUNCTION BOX (JB) / OCS	
CATCH BASIN (SINGLE WING)	
CATCH BASIN (DOUBLE WING)	
PEDESTAL TOP	
STORM STRUCTURE NUMBER	A3
SLOPE ARROW	

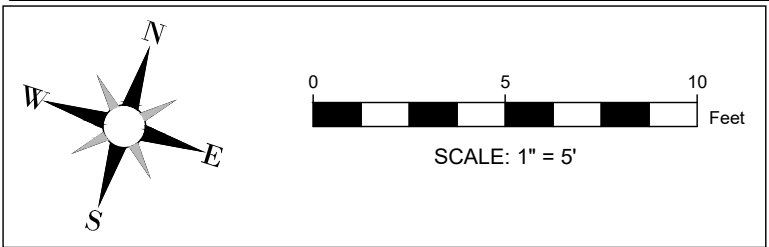
STORMWATER MAINTENANCE PLAN	
MAINTENANCE ACTIVITY	SCHEDULE
INSPECT FOR DAMAGE TO EMBANKMENTS (WASHOUTS, BREACHES, ETC.) AND INLETS/OUTLETS AND REPAIR AS-NEEDED.	SEMI-ANNUALLY
INSPECT DRAINAGE INLET LOCATIONS AND OUTLET STRUCTURES FOR SEDIMENT ACCUMULATION AND REMOVE ANY BLOCKAGES FROM INLET/OUTLET LOCATIONS.	ANNUALLY
REPAIR UNDERMINED OR ERODED AREAS, WAHSOUTS, AND BREACHES	AS-NEEDED
CLEAN AND REMOVE DEBRIS INLET/OUTLET LOCATIONS.	MONTHLY
MANAGE AND TREAT ALGAL GROWTH	MONTHLY
INSPECT FOR INVASIVE AND EXOTIC VEGETATION AND REMOVE FROM DRAINAGE DITCHES/SWALES	SEMI-ANNUALLY
MOW MAINTENANCE BERMS AND DITCH/SWALE BOTTOMS	MONTHLY
REMOVE SEDIMENT BUILDUP FROM DITCH BOTTOM	5-7 YEARS
CLEAN/SWEEP DEBRIS AND DIRT FROM PAVEMENT AREAS	AS-NEEDED
REMOVE DEBRIS AND FOREIGN MATERIALS FROM YARD INLETS, CATCH BASINS, PONDS, ETC.	AS-NEEDED

GRADING NOTES SEE SHEET C01.1

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PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

BUILDING AREA
GRADING PLAN

SHEET NUMBER

C05.1

ISSUE FOR PERMIT

STATE ROAD 200 / A1A
164' PUBLIC RIGHT-OF-WAY
(FDOT MAP NO. 74040-2107112)

HARPER CHAPEL ROAD
67' PUBLIC RIGHT-OF-WAY
(FDOT MAP NO. 74040-2107112)

ESPC LEGEND

ESPC / BMP	LINETYPE/SYMBOL
CONSTRUCTION EXIT (CO)	
SILT FENCE - TYPE C (SF)	
SILT FENCE - TYPE C DOUBLE (SF)	
INLET PROTECTION (IP)	
OUTLET PROTECTION (OP)	
DUST CONTROL-DISTURBED AREAS	
TEMPORARY SEEDING	
PERMANENT SEEDING	
MULCHING	
SODDING	
SLOPE STABILIZATION	
TREE PROTECTION	
SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS	

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 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
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 - EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - SEE GRADING & DRAINAGE NOTES.

SLOPES AND DISTURBED AREA STABILIZATION

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DRAINAGE

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MAINTENANCE AND INSPECTIONS

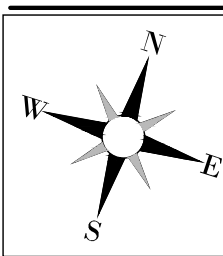
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BASED IN THE WEB SOIL SURVEY
INFORMATION, ALL SOILS AT THIS SITE
ARE CLASSIFIED AS 13: GOLDHEAD FINE
SAND; 22: SAPELO-LEON FINE SAND.

TOTAL DISTURBED AREA THIS
PHASE: 0.00 AC.



24-HOUR CONTACT:
RICK CAHILL
813-494-6736



0 20 40 Feet
SCALE: 1" = 20'



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SUITE A
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SEAL

ISSUE/BY	DATE	DESCRIPTION
1/01	12-20-2024	COUNTY SUBMITTAL
2/02	01-07-2025	COUNTY SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

ESPC PLAN
CLEARING PHASE

SHEET NUMBER

C06.1

ISSUE FOR PERMIT

EXCAVATED SEDIMENT TRAP CALCULATIONS (INLET xx)	
AREA DRAINED:	## AC
REQUIRED STORAGE:	## CY
SIDE SLOPES:	##
EXCAVATION DEPTH:	## FT
ROD SURFACE AREA:	## SF
LENGTH OF EXCAVATION:	## FT
WIDTH OF EXCAVATION:	## FT
PROVIDED STORAGE:	## CY

STATE ROAD 200 / A1A
164' PUBLIC RIGHT-OF-WAY
(FDOT MAP NO. 74040-2107112)

HARPER CHAPEL ROAD
67' PUBLIC RIGHT-OF-WAY
(FDOT MAP NO. 74040-2107112)

ESPC LEGEND

ESPC / BMP	LINETYPE/SYMBOL
CONSTRUCTION EXIT (CO)	
SILT FENCE - TYPE C (SF)	
SILT FENCE - TYPE C DOUBLE (SF)	
INLET PROTECTION (IP)	
OUTLET PROTECTION (OP)	
DUST CONTROL-DISTURBED AREAS	
TEMPORARY SEEDING	
PERMANENT SEEDING	
MULCHING	
SODDING	
SLOPE STABILIZATION	
TREE PROTECTION	
SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS	

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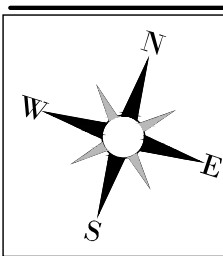
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PHASE: 1.17 AC.



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0 20 40 Feet
SCALE: 1" = 20'



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PROJECT INFORMATION BLOCK	
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DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

ESPC PLAN
GRADING PHASE

SHEET NUMBER

C06.2

ISSUE FOR PERMIT

STATE ROAD 200 / A1A
164' PUBLIC RIGHT-OF-WAY
(FDOT MAP NO. 74040-2107112)

HARPER CHAPEL ROAD
67' PUBLIC RIGHT-OF-WAY
(FDOT MAP NO. 74040-2107112)

CHASE
AREA = 3,483 SF
FFE = 24.70'

S72° 19' 01" W
221.51'

S77° 40' 10" E
223.60'

REFER TO LANDSCAPE PLANS FOR ALL
FINAL GROUND COVERING AND
STABILIZATION.

ESPC LEGEND

ESPC / BMP	LINETYPE/SYMBOL
CONSTRUCTION EXIT (CO)	
SILT FENCE - TYPE C (SF)	
SILT FENCE - TYPE C DOUBLE (SF)	
INLET PROTECTION (IP)	
OUTLET PROTECTION (OP)	
DUST CONTROL-DISTURBED AREAS	
TEMPORARY SEEDING	
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TREE PROTECTION	
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GENERAL

- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES AND PRACTICES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AT THE EXPENSE OF THE CONTRACTOR.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- THE PERMITEE IS ONLY RESPONSIBLE FOR THE FOR THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT DEVICES PRIOR TO STABILIZATION OF THE SITE AND NOT THE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- SEE GRADING & DRAINAGE NOTES.

SLOPES AND DISTURBED AREA STABILIZATION

- CONCENTRATED FLOW AREAS AND ALL SLOPES 2H:1V OR STEEPER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
- ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN (7) DAYS OF THEIR CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT. NO EXPOSED GRADE WILL BE LEFT UNSTABLE FOR MORE THAN 7 DAYS.
- PERMANENT GRASSING AND LANDSCAPING OF DISTURBED AREAS SHALL BE COMPLETED AS QUICKLY AS POSSIBLE. TEMPORARY STABILIZATION BY MULCHING AND/OR TEMPORARY SEEDING WILL BE REQUIRED IN THE EVENT OF PROJECT DELAYS.
- WIRE MESH REINFORCED SEDIMENT BARRIERS SHALL BE PLACED AT THE TOE OF ALL FILL SLOPES.

DRAINAGE

- ALL DRAINAGE STRUCTURES SHALL BE EROSION PROOFED.

MAINTENANCE AND INSPECTIONS

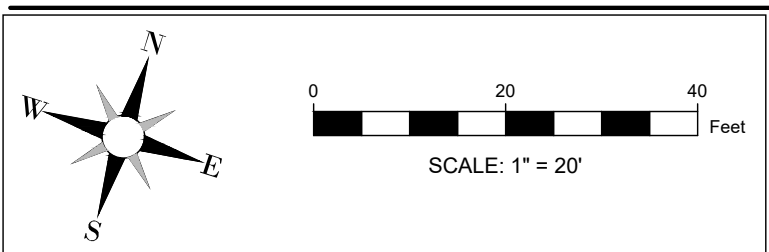
- SEDIMENT CONTROL DEVICES MUST BE INSPECTED DAILY AND CHECKED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN THEY REACH 1/3 OF DESIGN CAPACITY.
- MAINTENANCE OF ALL SOIL AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.

BASED IN THE WEB SOIL SURVEY
INFORMATION, ALL SOILS AT THIS SITE
ARE CLASSIFIED AS 13: GOLDHEAD FINE
SAND; 22: SAPELO-LEON FINE SAND.

TOTAL DISTURBED AREA THIS
PHASE: 1.17 AC.



24-HOUR CONTACT:
RICK CAHILL
813-494-6736



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ISSUE/BY	DATE	DESCRIPTION
1	01 12-20-2024	COUNTY SUBMITTAL
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PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

ESPC PLAN
FINAL PHASE

SHEET NUMBER

C06.3

ISSUE FOR PERMIT

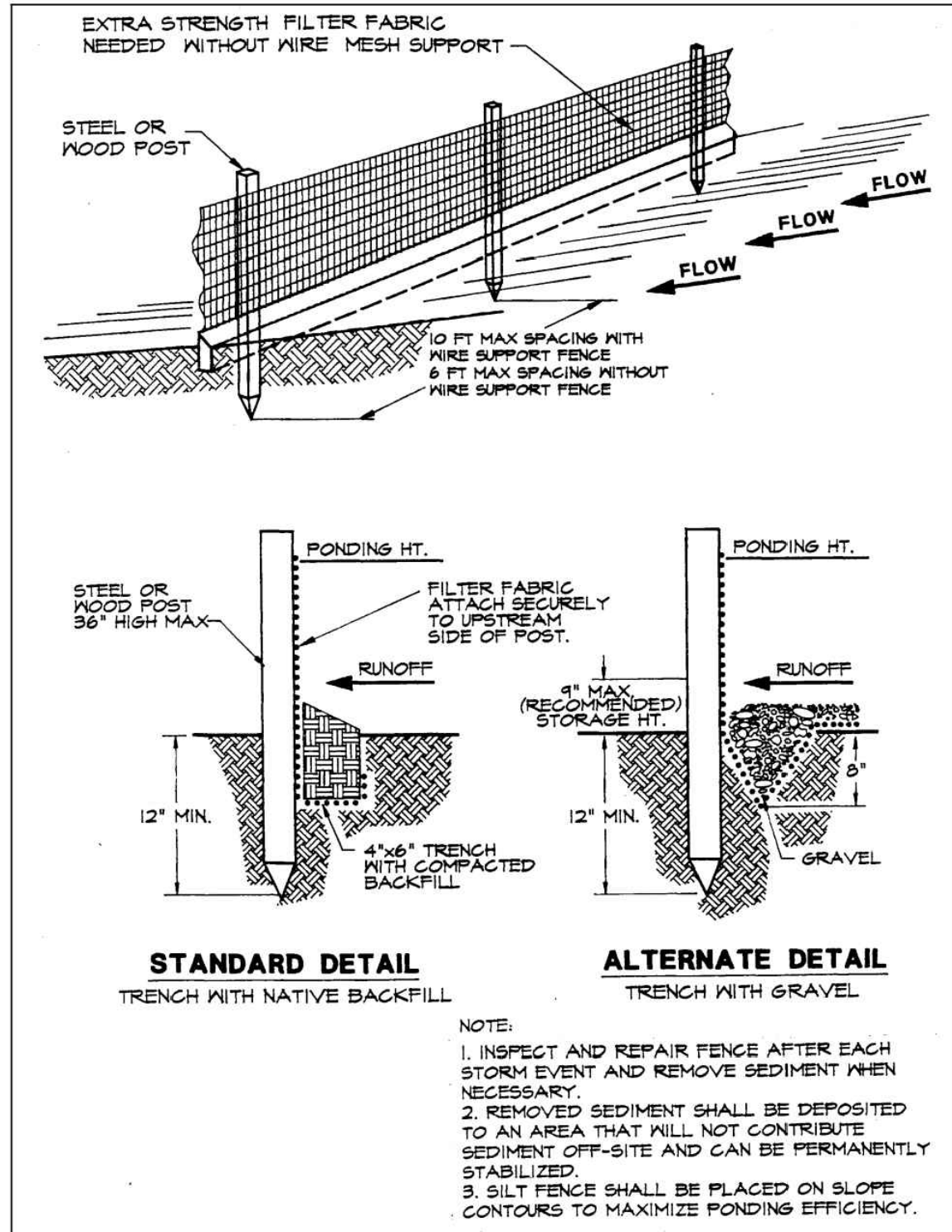


Plate 4.06e Silt Fence
Source: Erosion Draw

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4. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared, and seeded.

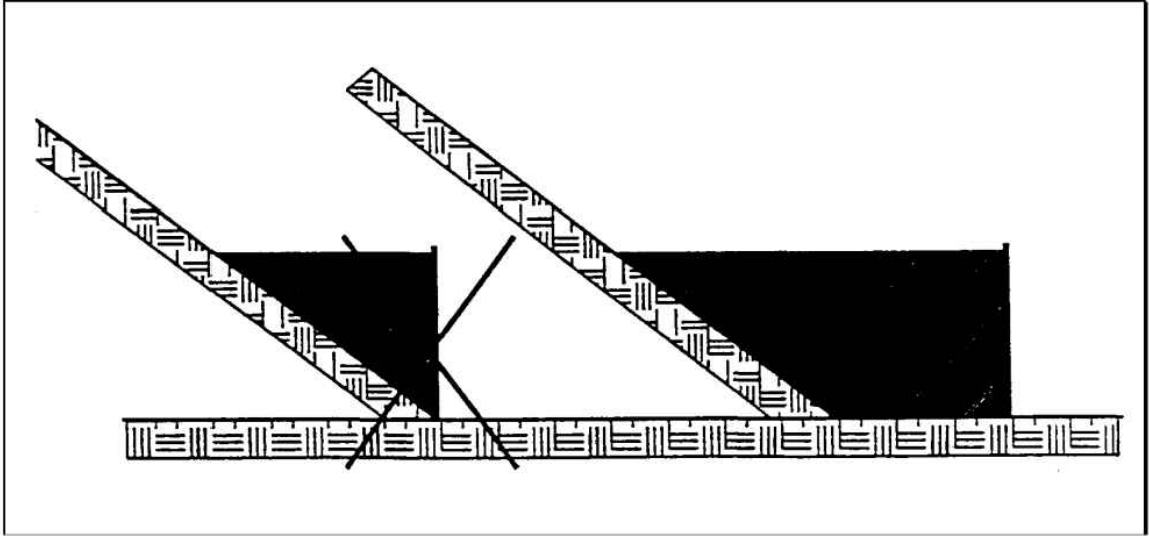


Plate 4.06f Proper Placement of a Silt Fence at the Toe of a Slope
Source: HydroDynamics, Inc

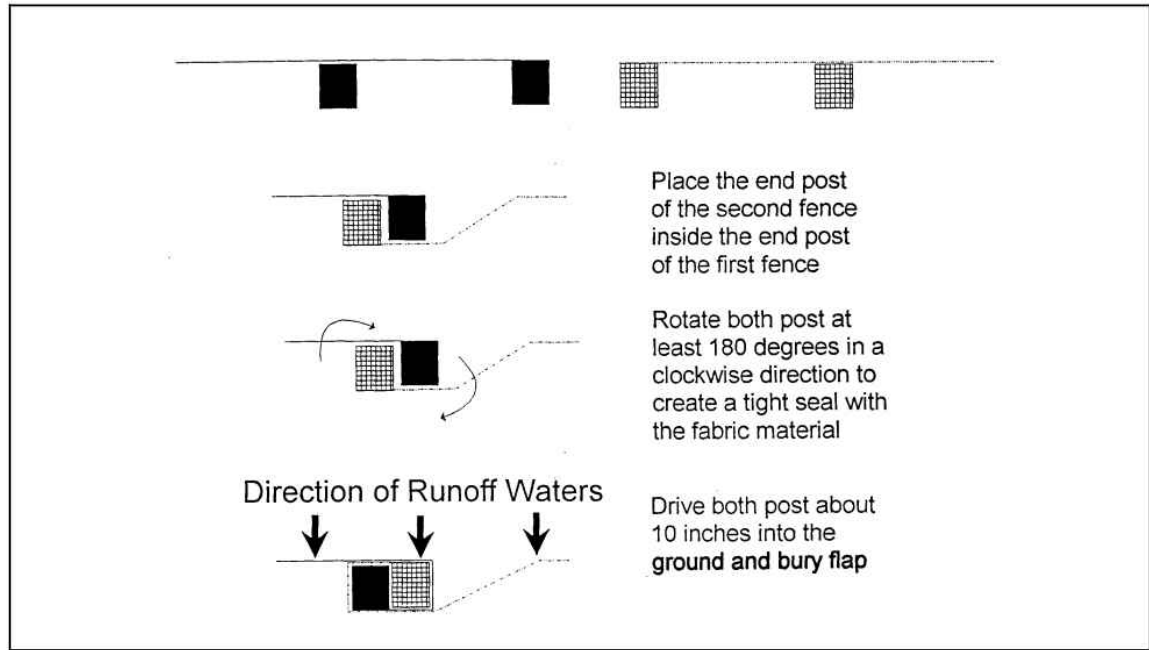


Plate 4.06g Attaching Two Silt Fences
Source: HydroDynamics, Inc.

4-30

3. On slopes 3:1 or greater, or wherever erosion may be a problem, sod shall be laid with staggered joints and secured by pegging or other approved methods. Sod shall be installed with the length perpendicular to the slope (on the contour). Begin laying sod at the bottom of the slope and work uphill. On very steep slopes, the use of ladders will facilitate the work and prevent damage to the sod.
4. Surface water cannot always be diverted from flowing over the face of the slope, but a capping strip of heavy jute or erosion netting, properly secured, along the crown of the slope will provide extra protection against lifting and undercutting of sod. This same technique can be used to fortify sod in water-carrying channels and other critical areas. Use wire staples to anchor heavy jute or erosion netting in channels.
5. As sodding of clearly defined areas is completed, sod shall be rolled or tamped to provide firm contact between roots and soil.
6. After rolling, sod shall be irrigated to a depth sufficient that the underside of the sod pad and the soil 4 inches (10 cm) below the sod is thoroughly wet.
7. During the first week, in the absence of adequate rainfall, watering shall be performed as often as necessary to maintain moist soil to a depth of at least 4 inches (10 cm).
8. The first mowing shall not be attempted until the sod is firmly rooted, usually after 2 - 3 weeks. Not more than 1/3 of the grass leaf should be removed at any one cutting.

B. Spot Sodding

1. Spot sodding is the planting of plugs or blocks, a minimum of 4 inches (10 cm) in diameter or square, of sod at measured intervals. The plugs or blocks should be placed one foot (30 cm) apart.
2. Sod spots within a row should be placed alternately and not directly opposite sod spots in adjacent rows.
3. Fit the plugs or blocks tightly into prepared holes and tamp them firmly into place.
4. Irrigate to a depth sufficient that the underside of the sod spot and the soil 4 inches (10 cm) below the sod is thoroughly wet.

C. Strip Sodding

1. Areas to be strip sodded should be fertilized, limed, prepared and smoothed as in solid sodding.
2. Lay the strips end to end in rows that are from 1 to 1-1/2 feet (30 to 45 cm) apart with the strips a minimum of 2 to 4 inches (5 to 10 cm) wide.

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3. Roll or tamp the strips thoroughly to provide firm contact between roots and soil.
4. Irrigate to a depth sufficient that the underside of the strips and the soil 4 inches (10 cm) below the strips are wet.
- D. Sodded Swales and Waterways (Plate 6.67b)**
1. Care should be taken to prepare the soil adequately in accordance with this specification. The sod type shall consist of plant materials able to withstand the designed velocity. (See STORMWATER CONVEYANCE CHANNELS - Section 6.35 (ES BMP 1.35).
2. Sod strips in swales and waterways shall be laid perpendicular to the direction of flow. Care should be taken to butt ends of strips tightly.
3. After rolling or tamping, sod shall be pegged or stapled to resist washout during the establishment period. Chicken wire, jute or other netting may be pegged over the sod for extra protection in critical areas.
4. All other specifications for this practice shall be adhered to when sodding a swale or waterway.

Maintenance of Established Sod

1. After the first week, sod shall be watered as necessary to maintain adequate moisture in the root zone and prevent dormancy.
2. Apply lime and fertilizer under a regular program based on soil tests and on the use and general appearance of the vegetative cover. In the absence of a soil test apply 1 - 2 tons/acre (45 - 90 lbs./1000 ft²)(2.24 to 4.48 t/ha) of finely ground agricultural limestone every three years. Apply 400 - 500 lbs./acre (9 - 18 lbs./1000 ft²)(450 - 560 kg/ha) of 10-10-10 fertilizer. To obtain better vegetative cover, topdress with 150 - 300 lbs./acre (6 - 12 lbs./1000 ft²)(170 - 340 kg/ha) of 16-4-4 fertilizer during the growing season, but at least six weeks before the end of the growing season. If Centipede or St. Augustine grass is used, do not apply more than 1 pound of actual nitrogen per 1000 ft² (20 - 40 lbs./acre)(22 - 44 kg/ha).
3. Mow to control weeds, improve the appearance of the vegetative cover, and to reduce fire hazard, as necessary. In general, the coarser the leaf texture of the grass, the higher it should be cut. Continuous close mowing will result in loss of vigor and reduced stand. No more than 1/3 of the grass leaf should be removed in any mowing.

6-22

SF SILT FENCE NTS

6.67 SODDING
(ES BMP 1.67)

Definition

Stabilizing fine-graded disturbed areas by establishing permanent grass stands with sod.

Purposes

1. To establish permanent turf immediately.
2. To prevent erosion and damage from sediment and runoff by stabilizing the soil surface.
3. To reduce the production of dust and mud associated with bare soil surfaces.
4. To stabilize drainageways where concentrated overland flow will occur.

Conditions Where Practice Applies

1. Disturbed areas which require immediate vegetative covers, or where sodding is preferred to other means of grass establishment.
2. Locations particularly suited to stabilization with sod are:
- a. slopes and buffer strips.
 - b. waterways and swales, especially around drop inlets.
 - c. residential or commercial lawns where quick use or aesthetics are factors.

Specifications

Soil Preparation

1. Prior to soil preparation, areas to be sodded shall be brought to final grade in accordance with the approval plan. These operations should leave as much topsoil as possible or replace the topsoil to a depth of four inches (10 cm).
2. Soil tests should be made to determine the exact requirements for lime and fertilizer. Soil tests may be conducted by the State Laboratory at the University of Florida or a reputable commercial laboratory. Information on state soil tests is available from county agricultural extension agents.

When a soil test is not made the following soil amendments should be made:

6-17

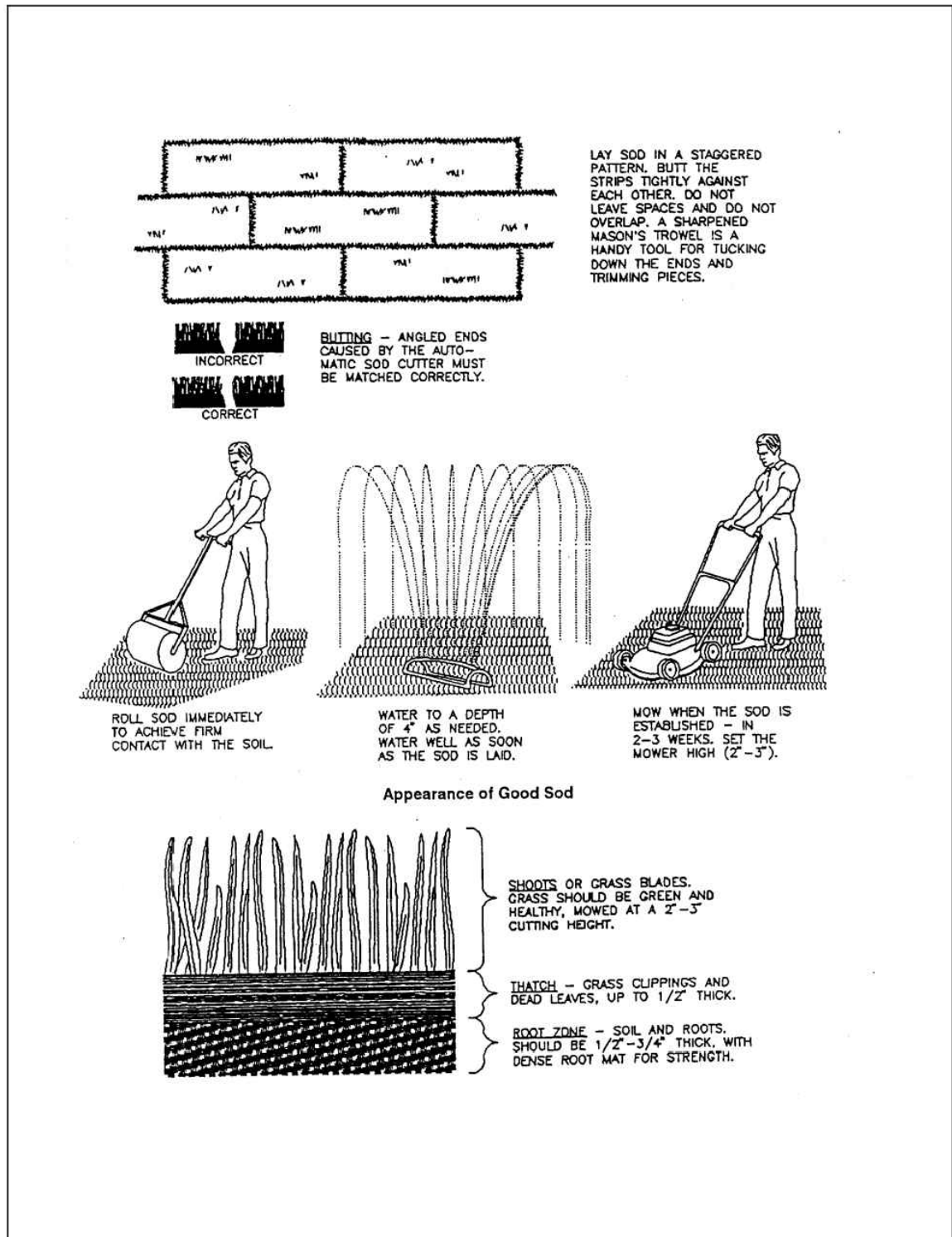


Plate 6.67a Sodding
Source: Virginia DSWC

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Pulverized agricultural limestone at 100 lbs./1000 ft² (2 tons/acre)(4.48 t/ha)

Fertilizer at 25 lbs./1000 ft² (1000 lbs./acre)(1.12 t/ha) of 10-10-10 in fall or 25lbs./1000 ft² of 5-10-10 in spring. **NOTE:** Equivalent nutrients may be applied with other fertilizer formulations.

These amendments shall be spread evenly over the area to be sodded, and incorporated into the top 3 - 6 inches (8 - 15 cm) of the soil by discing, harrowing or other acceptable means.

3. Prior to laying sod, the soil surface shall be clear of trash, debris, roots, branches, stones and clods in excess of 2 inches (5 cm) in length or diameter. Sod shall not be applied to gravel or other non-soil surfaces.
4. Any irregularities in the soil surface resulting from topsoil or other operations shall be filled or leveled in order to prevent the formation of depressions or water pockets.
5. Areas to be topsoiled and topsoil used shall fulfill the requirements of TOPSOILING - Section 6.61 (ES BMP 1.61). No sod shall be spread on soil which has been treated with soil sterilants until enough time has elapsed to permit dissipation of toxic materials.

Sod Quality

1. Sod should be free of weeds and undesirable coarse weedy grasses. If possible, Certified or Approved turfgrass sod should be used.
2. Sod shall be machine cut at a uniform soil thickness of 3/4 inch (20 mm), plus or minus 1/4 inch (6 mm), at the time of cutting. This thickness shall exclude shoot growth and thatch.
3. Pieces of sod shall be cut to the supplier's standard width and length, with a maximum allowable deviation in any dimension of 5%. Torn or uneven pads will not be acceptable.
4. Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended from a firm grasp on one end of the section.
5. Sod shall be not cut or laid in excessively wet or dry weather.
6. Sod shall be harvested, delivered, and installed within a period of 36 hours

Sod Installation

- A. Solid Sodding (Plate 6.67a)**
1. Irrigate areas to be sodded with a minimum of 1/2-inch (13 mm) of water unless

6-19

recent rains have provided equivalent moisture.

2. The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and butting tightly against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Care shall be exercised to insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause drying of the roots.

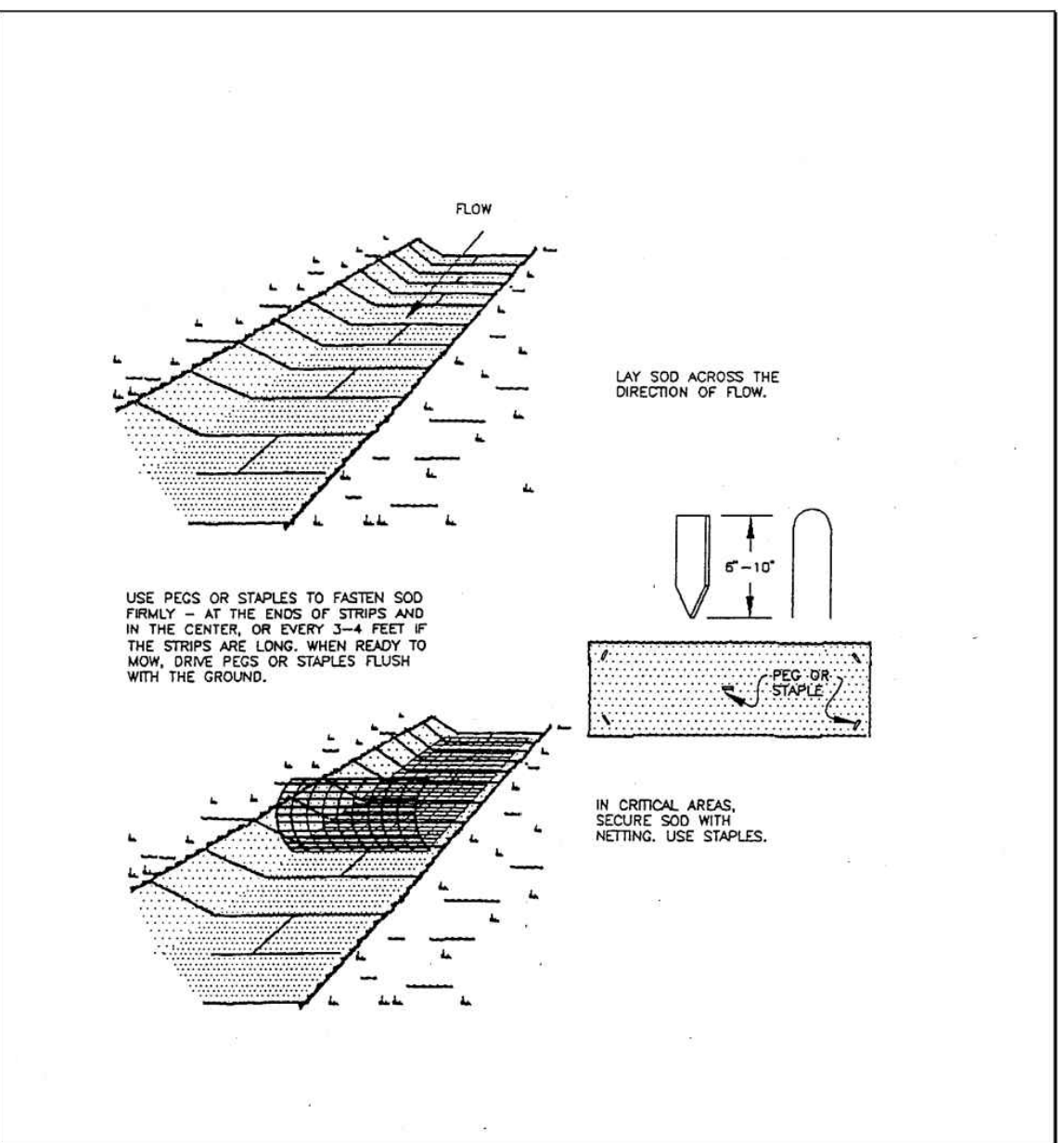


Plate 6.67b Sodding Swales and Waterways
Source: Virginia DSWC

6-20

SO SODDING NTS



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PROJECT INFORMATION BLOCK	
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DATE:	08-02-2024
DRAWN BY:	RH/MH/MZ
CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

ESPC DETAILS III

SHEET NUMBER

C06.6

4.08 STORM DRAIN INLET PROTECTION
(ES BMP 1.08)

Definition

A sediment filter or an excavated impounding area around a storm drain drop inlet or curb inlet.

Purpose

To prevent sediment from entering storm water conveyance systems prior to permanent stabilization of the disturbed area.

Condition Where Practice Applies

Where storm drain inlets are to be made operational before permanent stabilization of the disturbed drainage area. Different types of structures are applicable to different conditions (see Plates 4.08a through 4.08h).

Planning Considerations

Storm sewers which are made operational before their drainage area is stabilized can convey large amounts of sediment to receiving waters. In case of extreme sediment loading, the storm sewer itself may clog and lose most of its capacity. To avoid these problems, it is necessary to prevent sediment from entering the system at the inlets.

This section contains several types of inlet filters and traps which have different applications dependent upon site conditions and type of inlet. Other innovative techniques for accomplishing the same purpose are encouraged, but only after specific plans and details are submitted to and approved by the stormwater permitting agency.

Note that these various inlet protection devices are for drainage areas of less than one acre (0.4 ha). Runoff from large disturbed areas should be routed through a TEMPORARY SEDIMENT TRAP - Section 4.25 (ES BMP 1.25).

Design Criteria

- The drainage area shall be no greater than 1 acre (0.4 ha).
- The inlet protection device shall be constructed to facilitate clean out and disposal of trapped sediment and to minimize interference with construction activities.
- The inlet protection devices shall be constructed so that any resultant ponding or stormwater will not cause excessive inconvenience or damage to adjacent areas or structures.
- Design criteria more specific to each particular inlet protection devices will be found on Plates 4.08a-h.

4-33

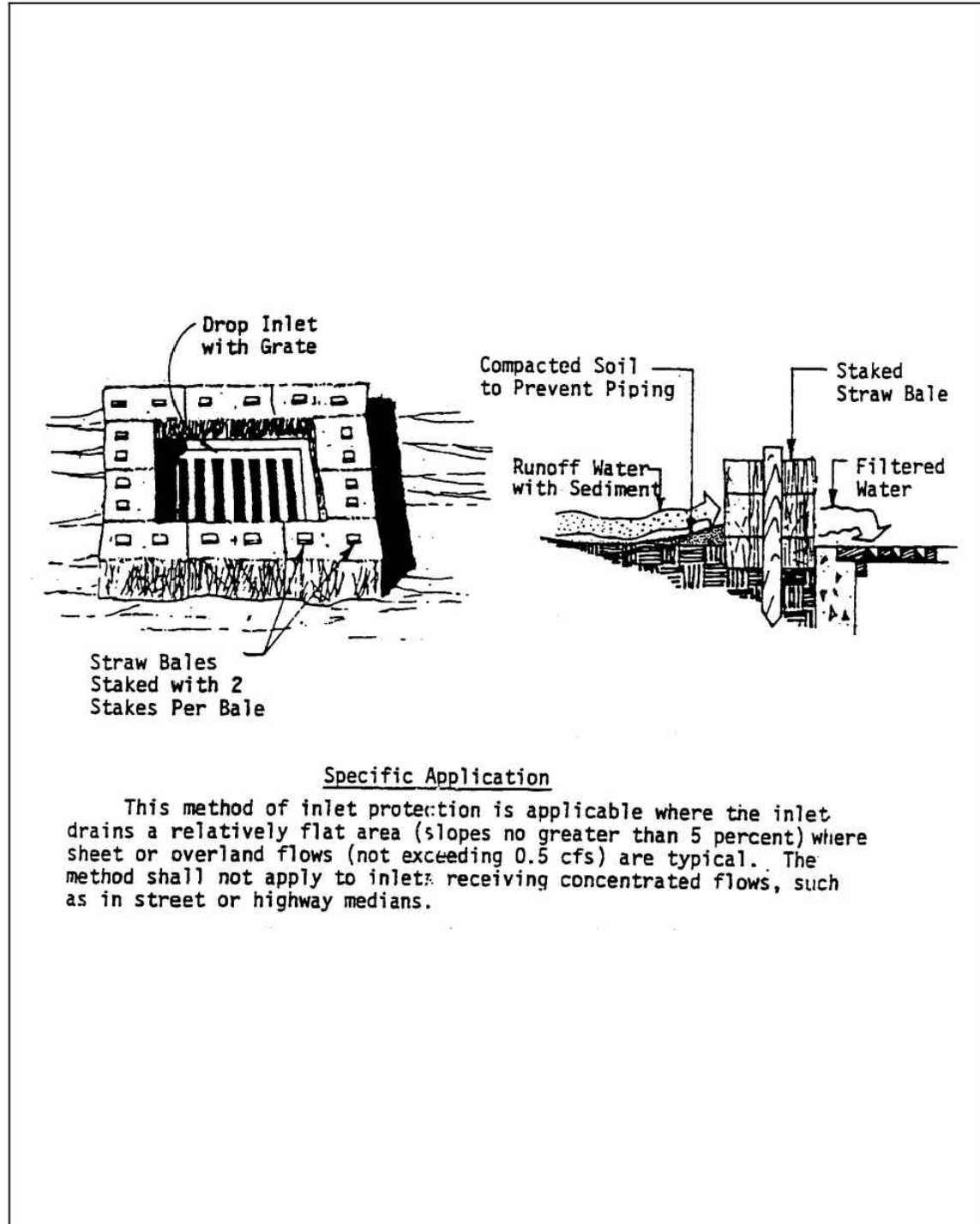


Plate 4.08a Straw Bale Drop Inlet Sediment Filter
Source: Michigan Soil Erosion and Sedimentation Control Guidebook

4-34

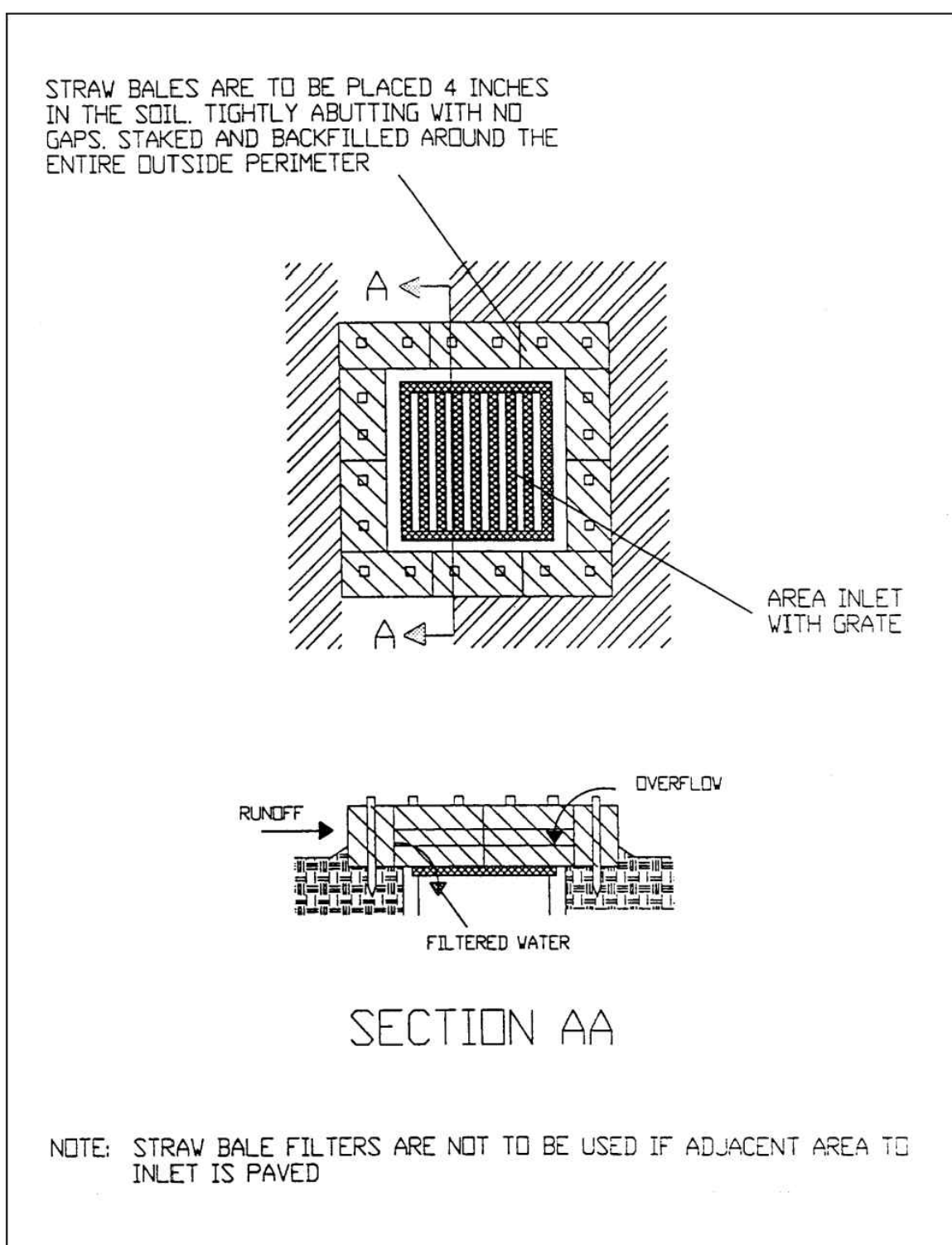


Plate 4.08b Straw Bale Filter for Area Inlet
Source: HydroDynamics, Inc.

4-35

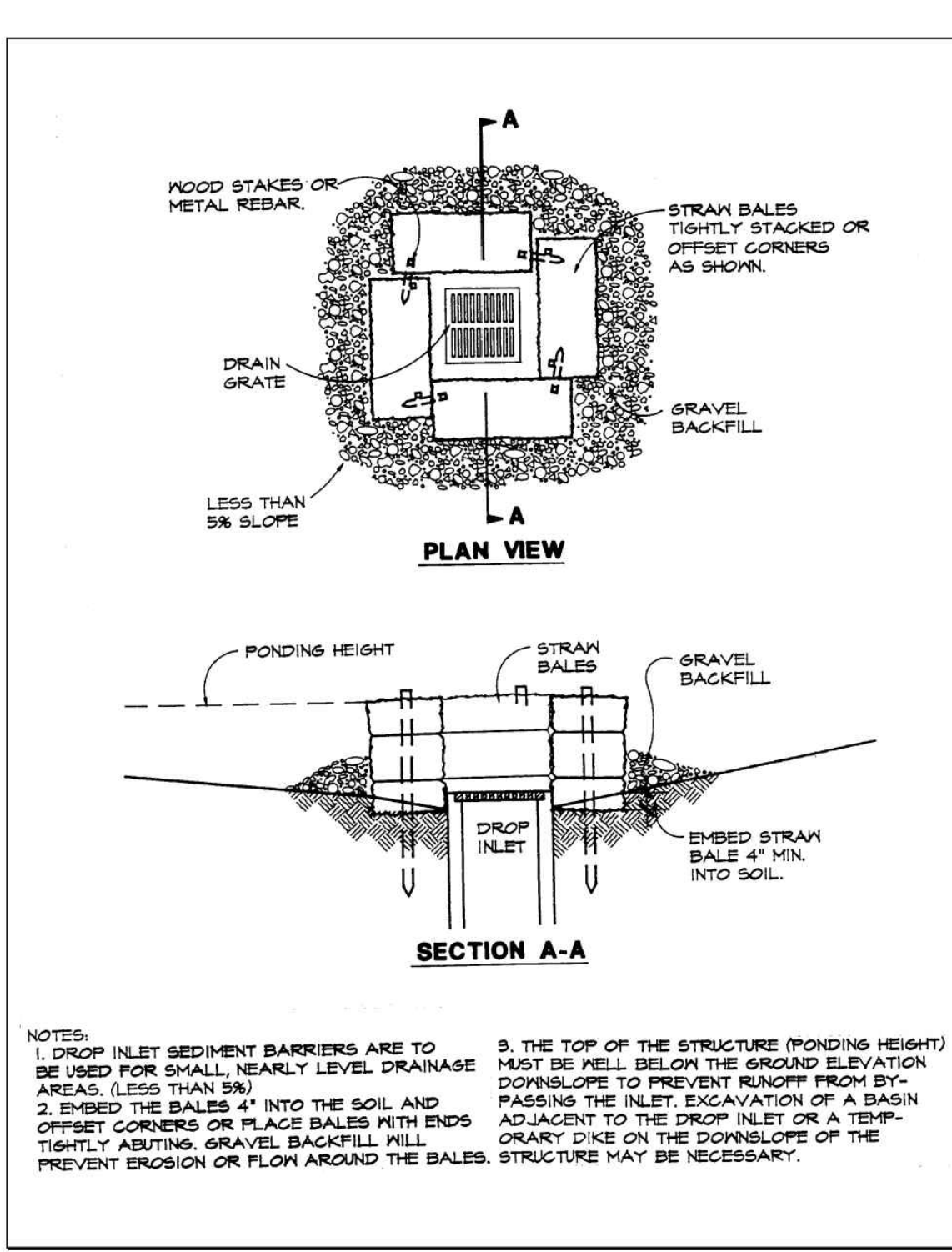


Plate 4.08c Straw Bale and Gravel Drop Inlet Sediment Barrier
Source: Erosion Draw

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Construction Specifications

Straw bale drop inlet filter

- Bales shall be either wire-bound or string-tied with the bindings oriented around the sides rather than over and under the bales.
- Bales shall be placed lengthwise in a single row surrounding the inlet, with the ends of adjacent bales pressed together. (See Plate 4.08a)
- The filter barrier shall be entrenched and backfilled. A trench shall be excavated around the inlet the width of a bale to a minimum depth of 4 inches (10 cm). After the bales are staked, the excavated soil shall be backfilled and compacted against the filter barrier. (See Plate 4.08b)
- Each bale shall be securely anchored and held in place by at least two stakes or rebars (See p. 4-17) driven through the bale.
- Loose straw should be wedged between bales to prevent water from entering between bales.
- Gravel may be spread around the bales to improve stability. (See Plate 4.08c)

Fabric drop inlet sediment filter

- Fabric shall be cut from a continuous roll to avoid joints.
- Stakes shall be 2" x 4" (5 cm x 10 cm) wood (preferred) or equivalent metal with a minimum length of 3 feet (90 cm). (See Plate 4.08d)
- Staples shall be of heavy duty wire at least 1/2-inch (13 mm) long.
- Stakes shall be spaced around the perimeter of the inlet a maximum of 3 feet (90 cm) apart and securely driven into the ground minimum of 8 inches (20 cm). A frame of 2" x 4" (5 cm x 10 cm) wood shall be constructed around the top of the stakes for proper stability.
- A trench shall be excavated approximately 4 inches (10 cm) wide and 4 inches (10 cm) deep around the outside perimeter of the stakes. (See Plate 4.08e)
- The burlap shall be stapled to the wooden stakes, and 8 inches (20 cm) of the fabric shall be extended into the trench. The height of the filter barrier shall be a minimum of 15 inches (38 cm) and shall not exceed 18 inches (45 cm).
- The trench shall be backfilled and the soil compacted over the burlap.

4-37

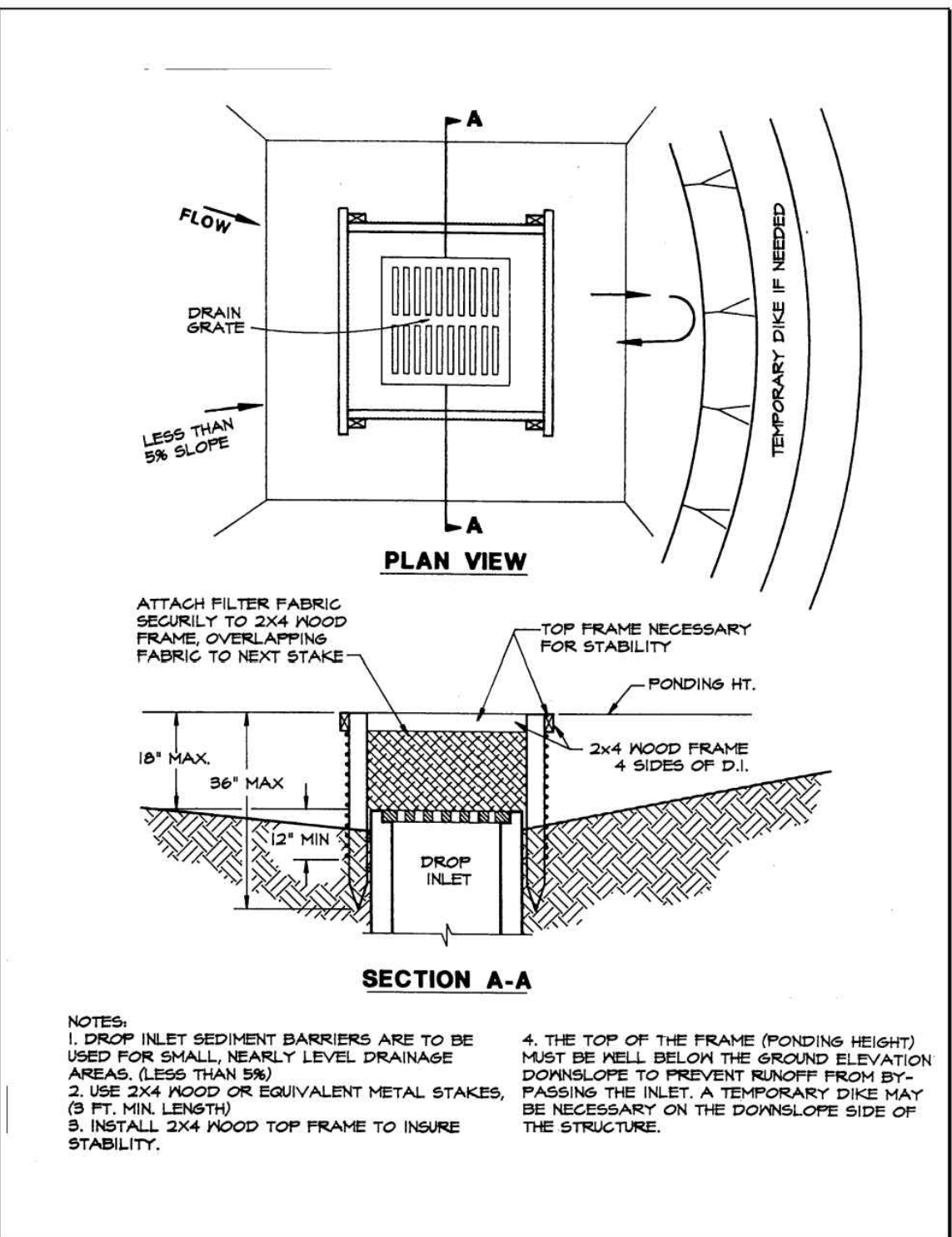


Plate 4.08d Silt Fence Drop Inlet Sediment Barrier
Source: Erosion Draw

4-38

Gravel and wire mesh drop inlet sediment filter

- Wire mesh shall be laid over the drop inlet so that the wire extends a minimum of one foot (30 cm) beyond each side of the inlet structure. Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be used. If more than one strip of mesh is necessary, the strips shall be overlapped at least 1 ft. (30 cm).
- FDOT No. 1 Coarse Aggregate (1.5" to 3.5" stone)(4 - 9 cm) shall be placed over the wire mesh as shown on Plate 4.08c. The depth of stone shall be at least 12 inches (30 cm) over the entire inlet opening. The stone shall extend beyond the inlet opening at least 18 inches (45 cm) on all sides. (See Plate 4.08f)
- 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.

NOTE: This filtering device has no overflow mechanism. Therefore, ponding is likely especially if sediment is not removed regularly. This type of device must never be used where overflow may endanger an exposed fill slope. Consideration should also be given to the possible effects of ponding on traffic movement, nearby structures, working areas, adjacent property, etc.

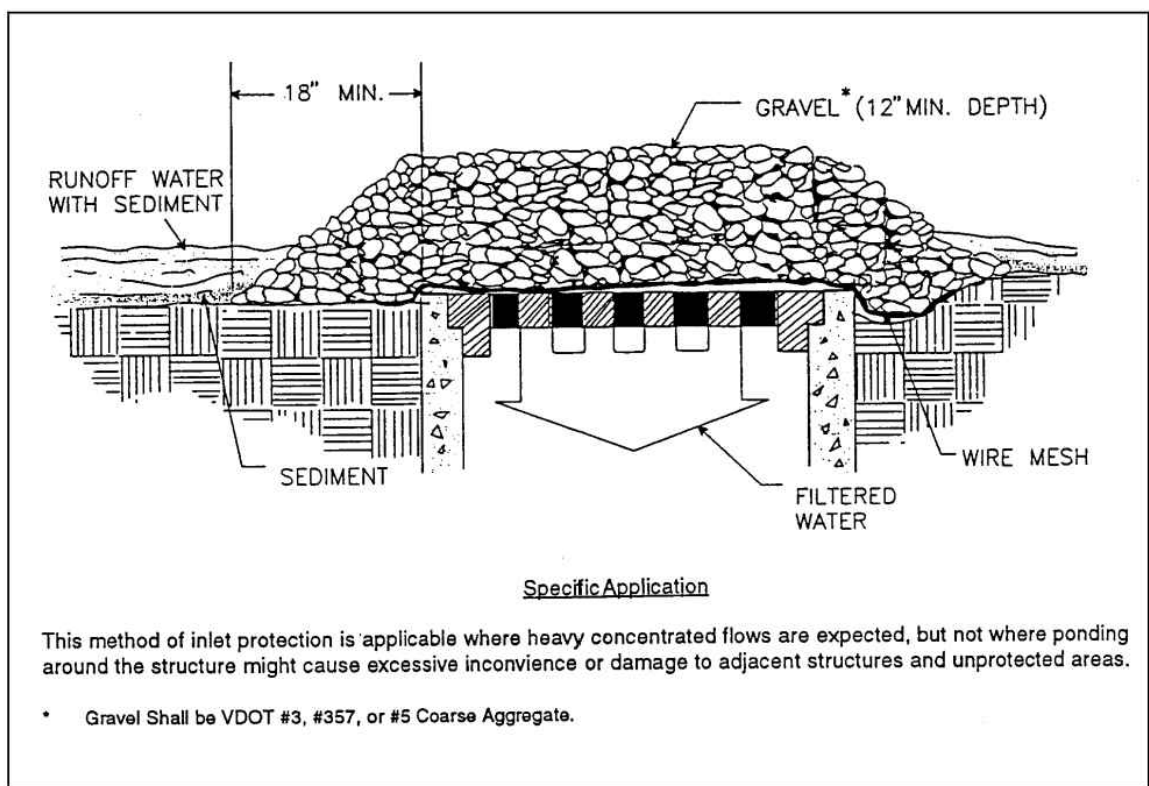


Plate 4.08f Gravel and Wire Mesh Drop Inlet Sediment Filter
Source: Virginia DSWC

4-40

Gravel and wire mesh drop inlet sediment filter

- Wire mesh shall be laid over the drop inlet so that the wire extends a minimum of one foot (30 cm) beyond each side of the inlet structure. Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be used. If more than one strip of mesh is necessary, the strips shall be overlapped at least 1 ft. (30 cm).
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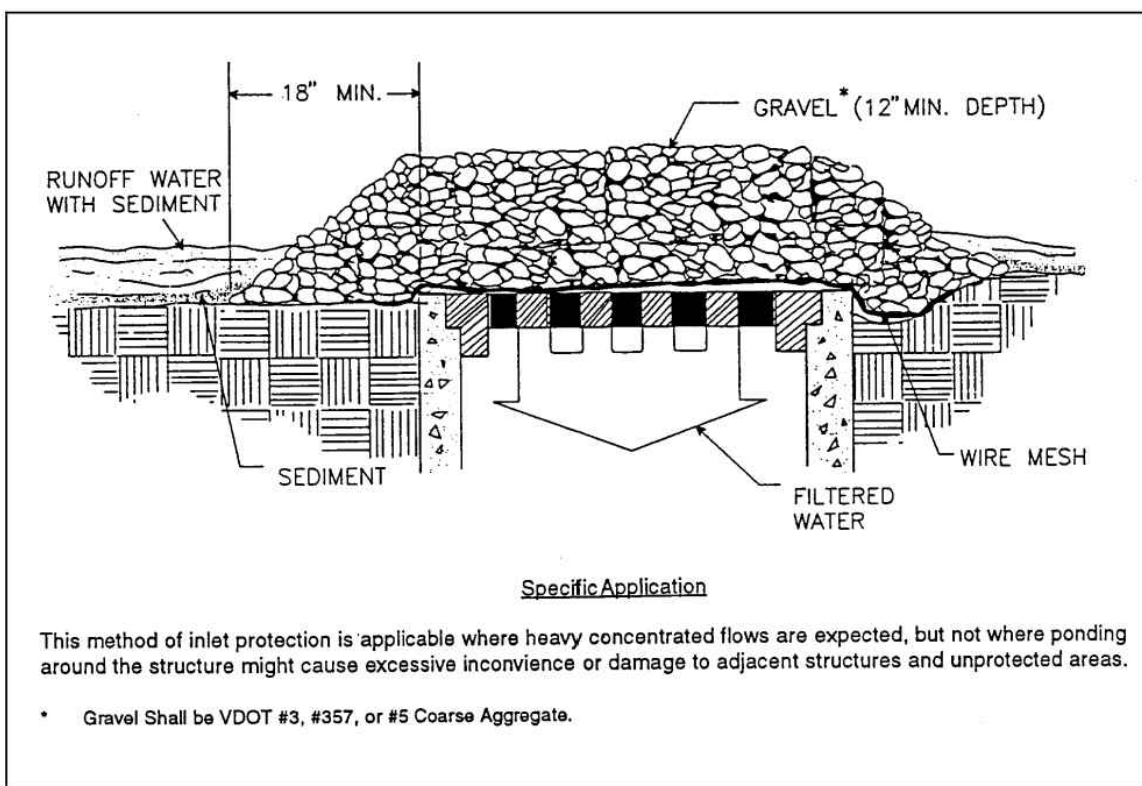


Plate 4.08f Gravel and Wire Mesh Drop Inlet Sediment Filter
Source: Virginia DSWC

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ISSUE/BY	DATE	DESCRIPTION
1	01 12-20-2024	COUNTY SUBMITTAL
2	02 01-07-2025	COUNTY SUBMITTAL

PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	08-02-2024
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CHECKED BY:	EH
INGENIUM PROJECT #	230066
SHEET TITLE	

ESPC DETAILS IV

SHEET NUMBER

C06.7

ISSUE FOR PERMIT

Block and gravel drop inlet sediment filter

- Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, with the ends of adjacent blocks abutting. The height of the barrier can be varied, depending on design needs, by stacking combinations of 4 inch, 8 inch and 12 inch (10, 20, and 30 cm) wide blocks. The barrier of blocks shall be at least 12 inches (30 cm) high and no greater than 24 inches (60 cm) high.
- Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be used. (See Plate 4.08g)
- Stone shall be piled against the wire to the top of the block barrier. Suitable coarse aggregate shall be used. (See Plate 4.08h)
- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned and replaced.
- As a very temporary alternative, pervious burlap bags filled with gravel may be placed around the inlet provided that there are no gaps between the bags. (See Plate 4.08i)
- Either of these two practices may be installed on pavement or bare ground

Sod drop inlet sediment filter

- Soil shall be prepared and sod installed according to the specifications in SODDING - Section 6.67 (ES BMP 1.67).
- Sod shall be placed to form a turf mat covering the soil for a distance of 4 feet (1.2 m) from each side of the inlet structure. (See Plate 4.08j)

Prefabricated drop inlet internal filter bag (ACF Silt Sack)

- Remove the grate over the catch basin and insert the filter device, then replace grate to hold the device in position.
- When sediments have accumulated to within one foot (30 cm) of the grate the filter insert must be removed by a front-end loader or forklift. The filter may be discarded and replaced or it may be emptied, cleaned, and reused.

NOTE: This segment does not constitute a product endorsement.

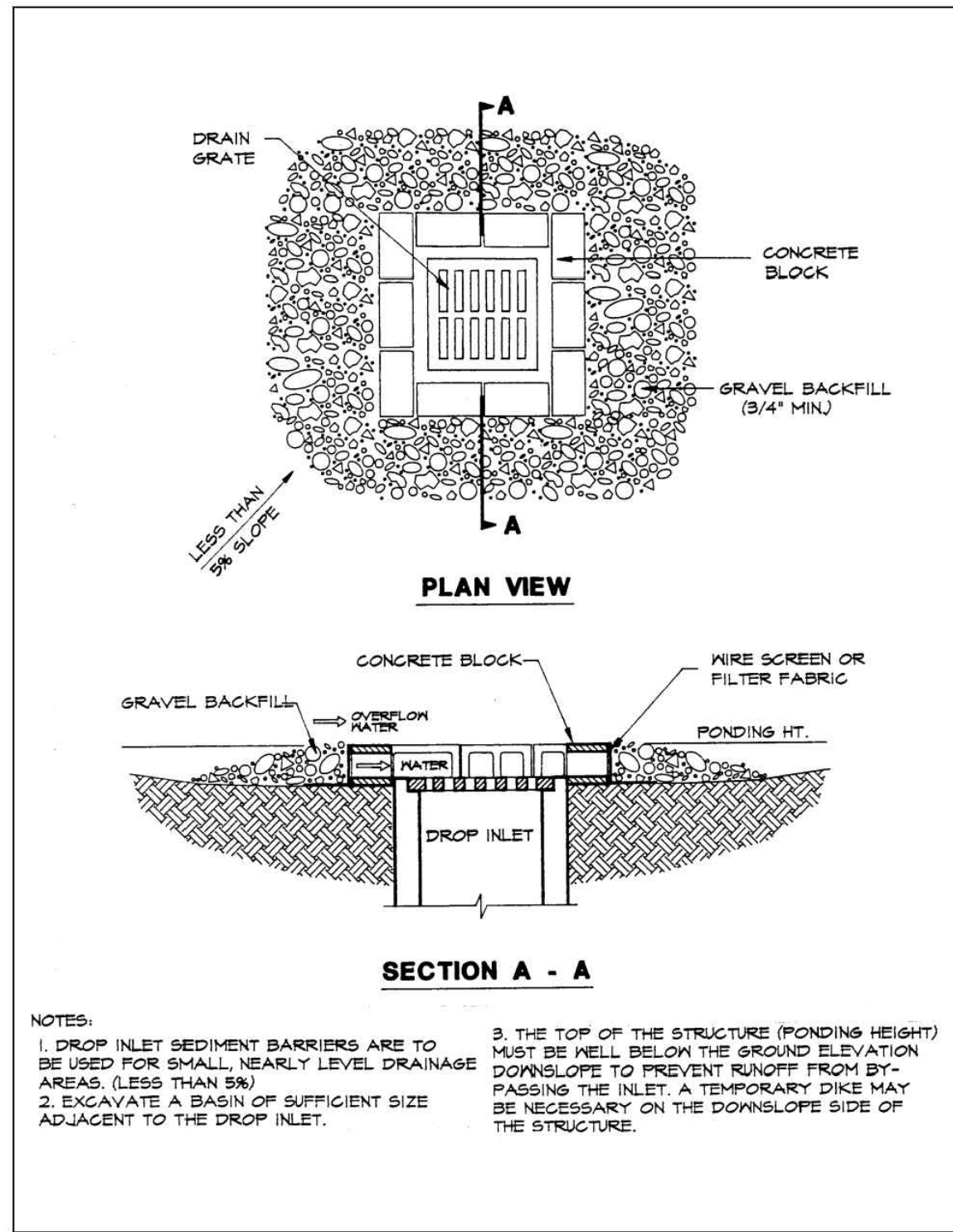


Plate 4.08g Block and Gravel Drop Inlet Sediment Filter
Source: Erosion Draw

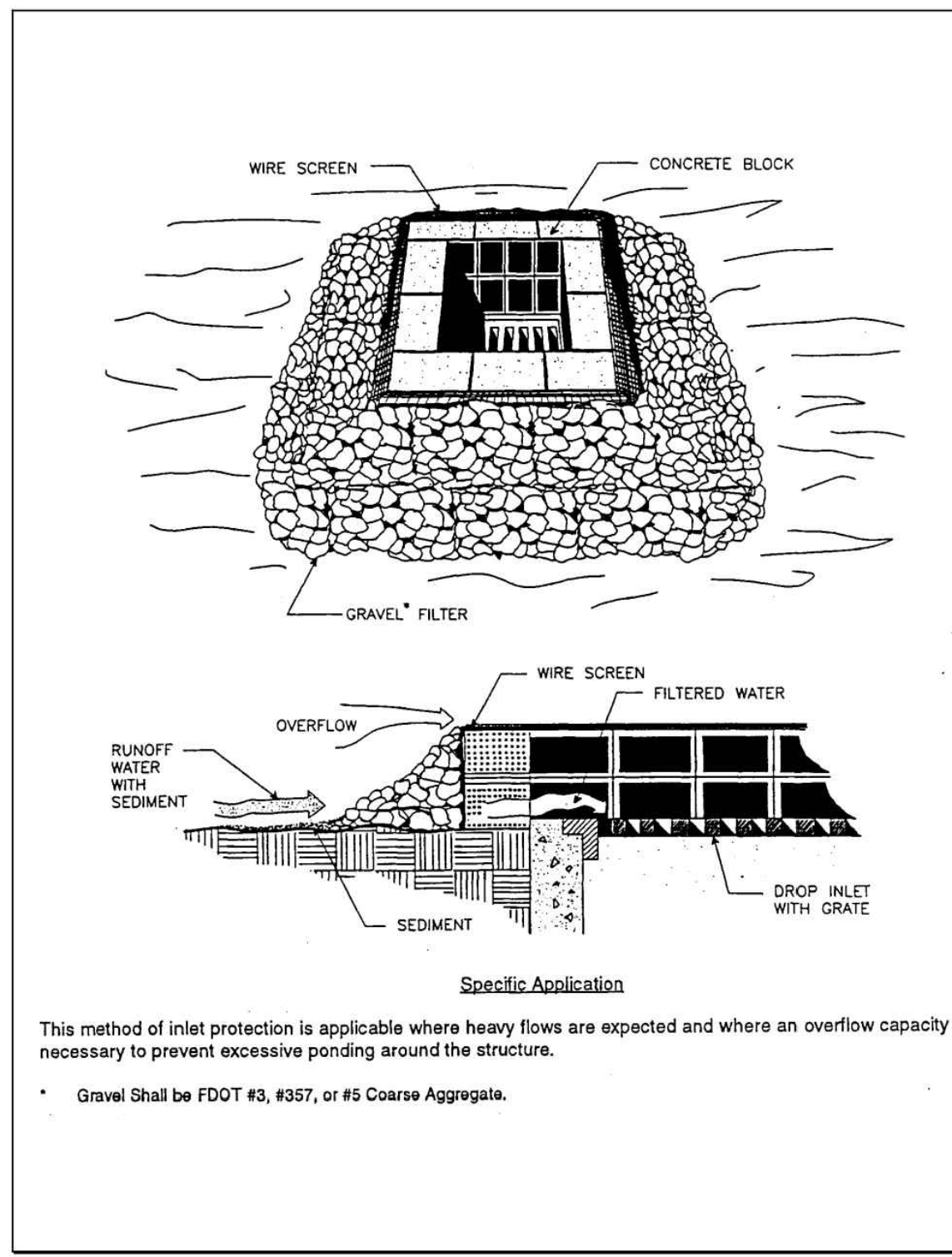


Plate 4.08h Block and Gravel Drop Inlet Sediment Filter
Source: Michigan Soil Erosion and Sedimentation Control Guidebook

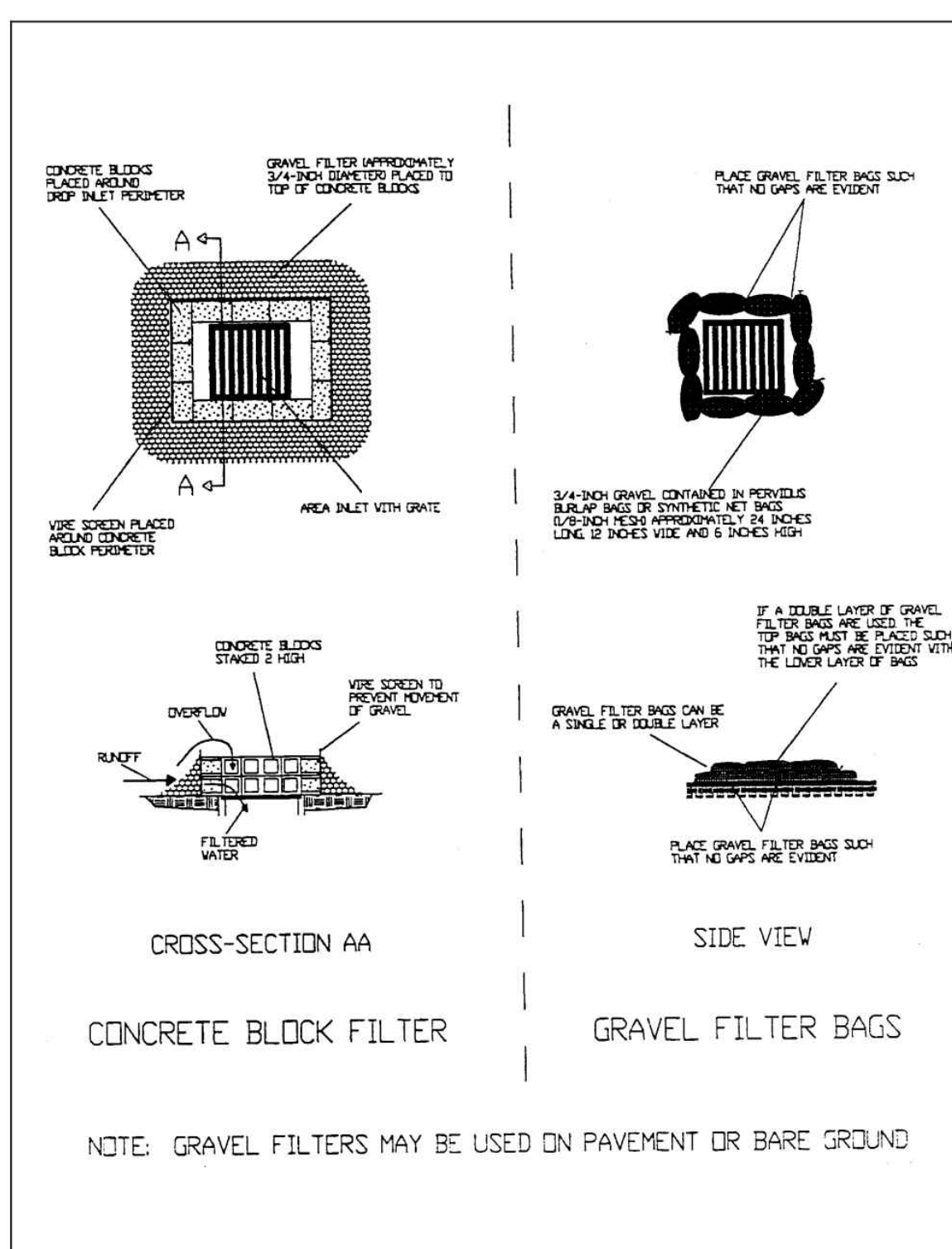


Plate 4.08i Gravel Filters for Area Inlets
Source: HydroDynamics, Inc.

Prefabricated drop inlet external filter (Suntree Isles Grate Inlet Protector)

- Place the device over the inlet. If the inlet has a grate, the device shall be secured to the grate by means of a long toggle bolt. If the grate is not present, the device shall be bolted directly to the concrete.
- Sediments shall be removed when they have accumulated to within one foot (30 cm) of the top of the device. The filter fabric elements shall be cleaned or replaced at that time.

NOTE: This segment does not constitute a product endorsement.

Gravel curb inlet sediment filter

- Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be placed over the curb inlet opening so that at least 12 inches (30 cm) of wire extends across the top of the inlet cover and at least 12 inches (30 cm) of wire extends across the concrete gutter from the inlet opening. (See Plate 4.08k)
- Stone shall be piled against the wire so as to anchor it against the gutter and inlet cover and to cover the inlet opening completely. FDOT No. 1 Coarse Aggregate shall be used.
- An overflow weir can be constructed of 2" x 4" (5 x 10 cm) boards to lessen ponding from this practice. (See Plate 4.08L)
- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the block, cleaned and replaced.

Block and gravel curb inlet sediment filter

- Two concrete blocks shall be placed on their sides abutting the curb at either side of the inlet opening.
- A 2" x 4" (5 x 10 cm) board shall be cut and placed through the outer holes of each spacer block to help keep the front blocks in place.
- Concrete blocks shall be placed on their sides across the front of the inlet and abutting the spacer blocks. (See Plate 4.08m)
- Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Hardware cloth with 1/2 inch (13 mm) openings shall be used.
- FDOT No. 1 Coarse Aggregate shall be piled against the wire to the top of the barrier.

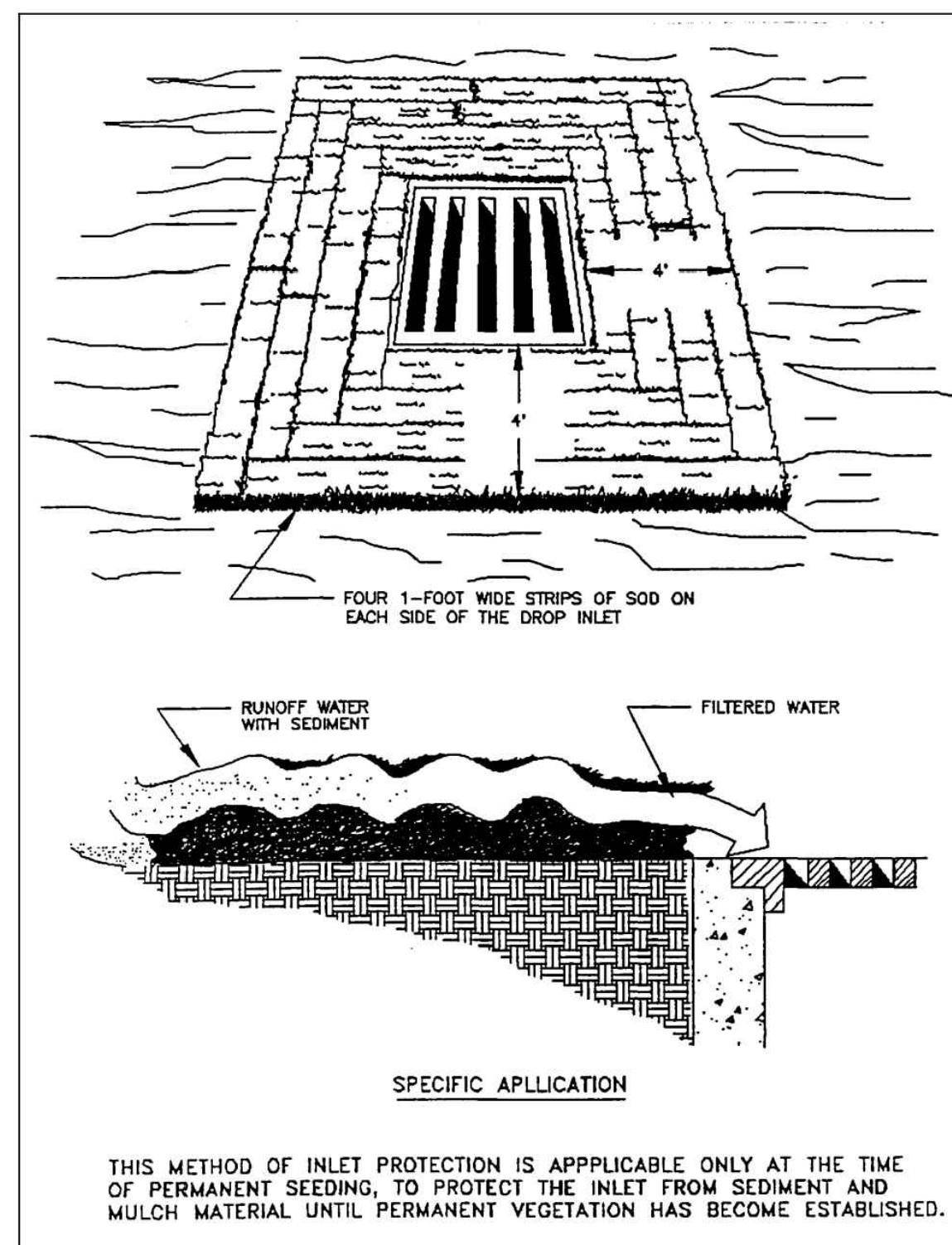


Plate 4.08j Sod Drop Inlet Sediment Filter
Source: Virginia DSWC

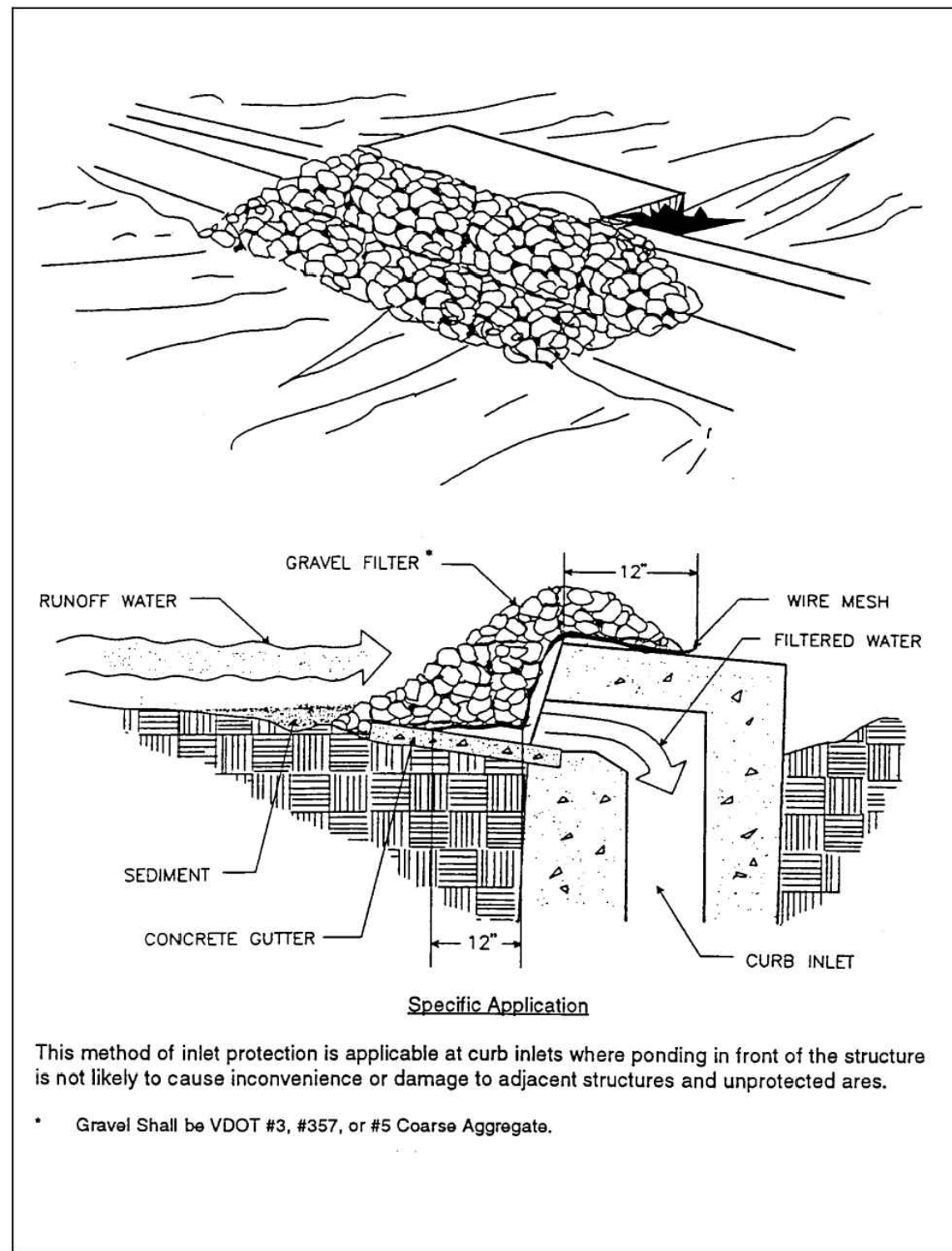


Plate 4.08k Gravel Curb Inlet Sediment Filter
Source: Virginia DSWC

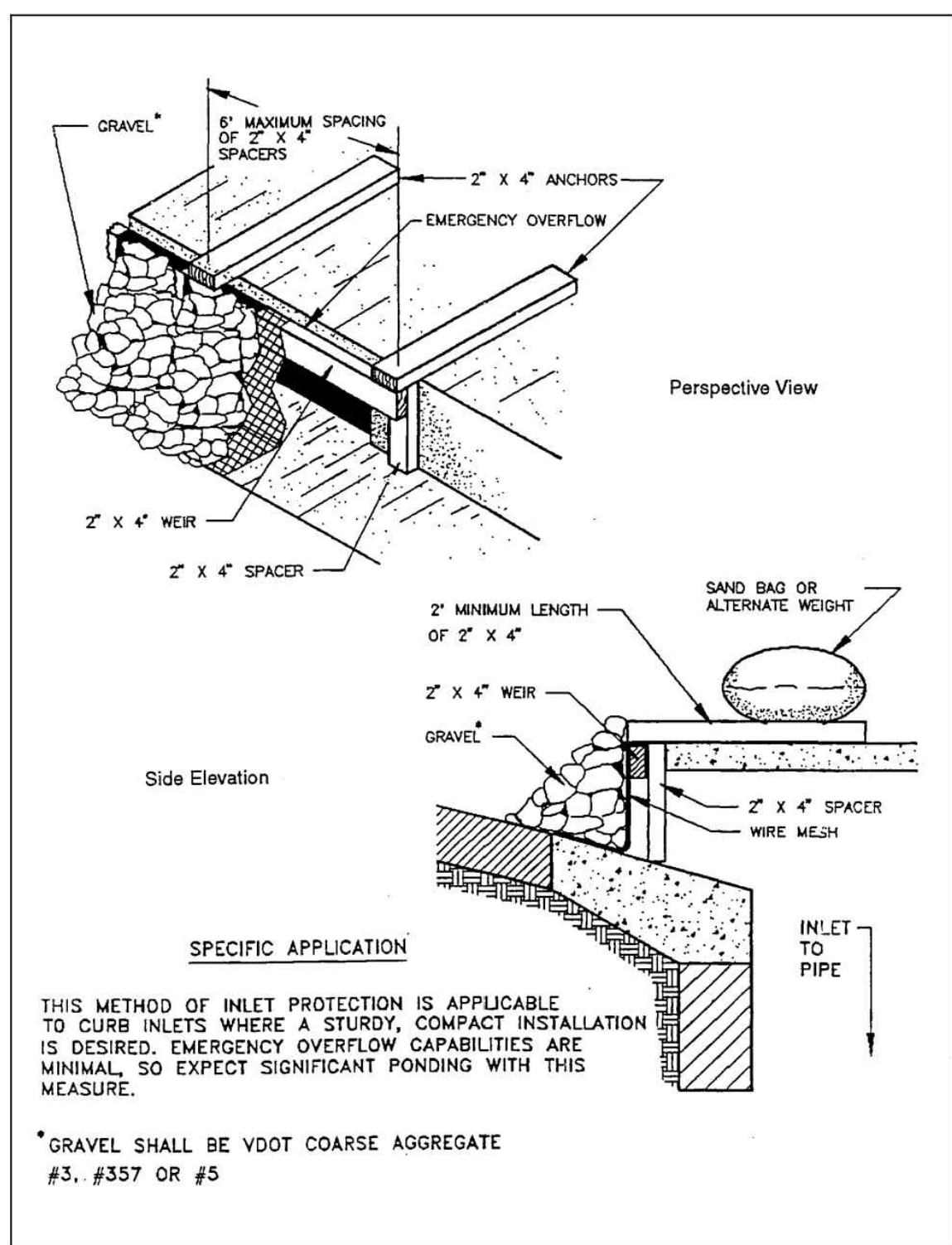


Plate 4.08L Gravel Curb Inlet Sediment Filter with Overflow Weir
Source: Maryland Standards and Specifications for Soil Erosion and Sediment Control



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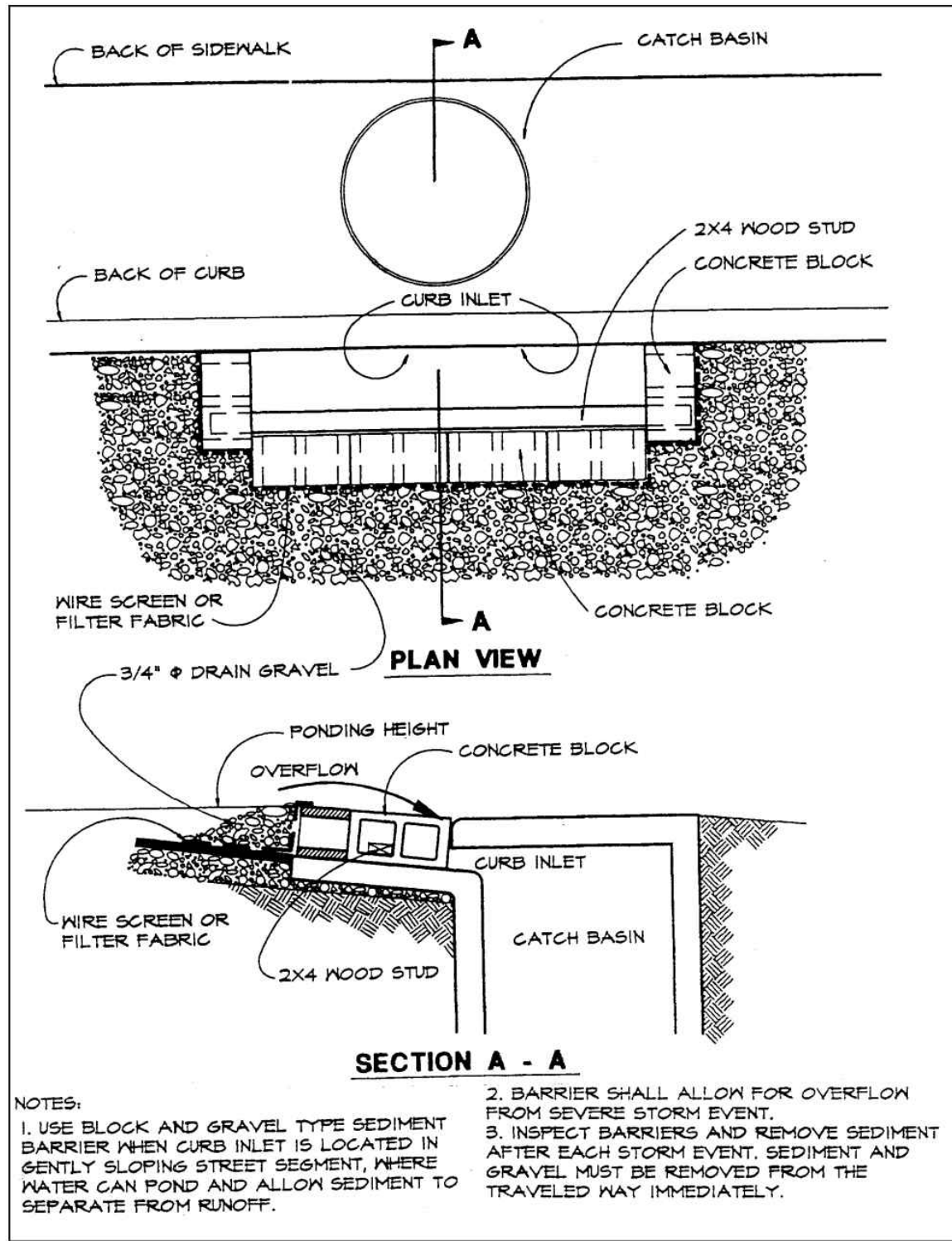


Plate 4.08m Block and Gravel Curb Inlet Sediment Barrier
Source: Erosion Draw

4-49

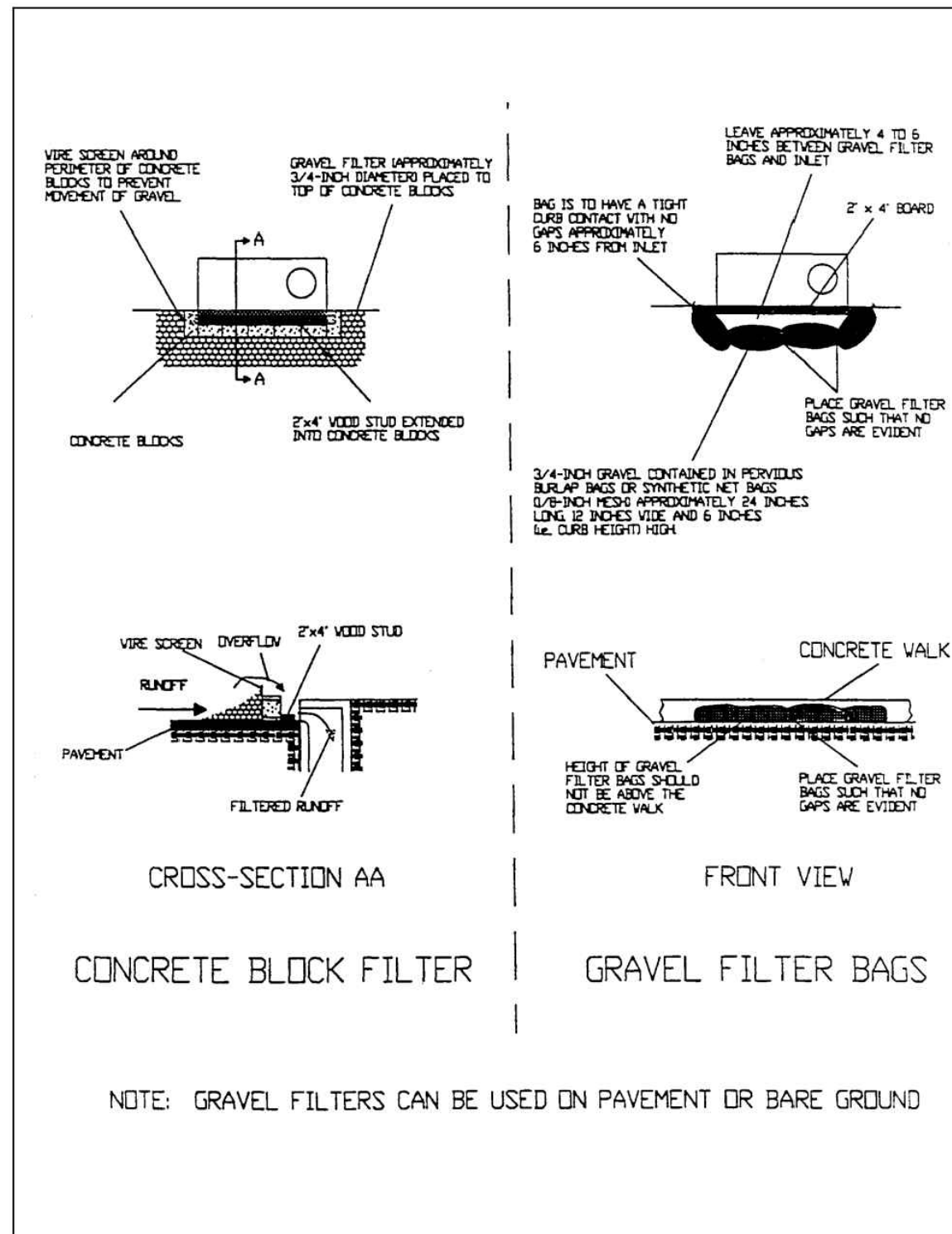


Plate 4.08n Curb Inlet Gravel Filters
Source: HydroDynamics, Inc.

4-50

- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the block, cleaned and replaced.
- As an alternate, gravel filled burlap bags may be stacked tightly around the curb inlet. (See Plates 4.08n and 4.08o)

Curb and Gutter Sediment Barrier

- Place gravel filled burlap bags on gently sloping street segments according to the spacing chart. (See Plate 4.08p)
- Place two or more bags at each interval in a manner which provides maximum support.
- When stacking several bags high, leave a one bag gap to provide an overflow spillway. (See Plate 4.08q)
- Sediments must be removed after each rain event.

Maintenance

- The structure shall be inspected after each rain and repairs made as needed.
- Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 of 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.
- Structures shall be removed and the area stabilized when the remaining drainage area has been properly stabilized.

4-51

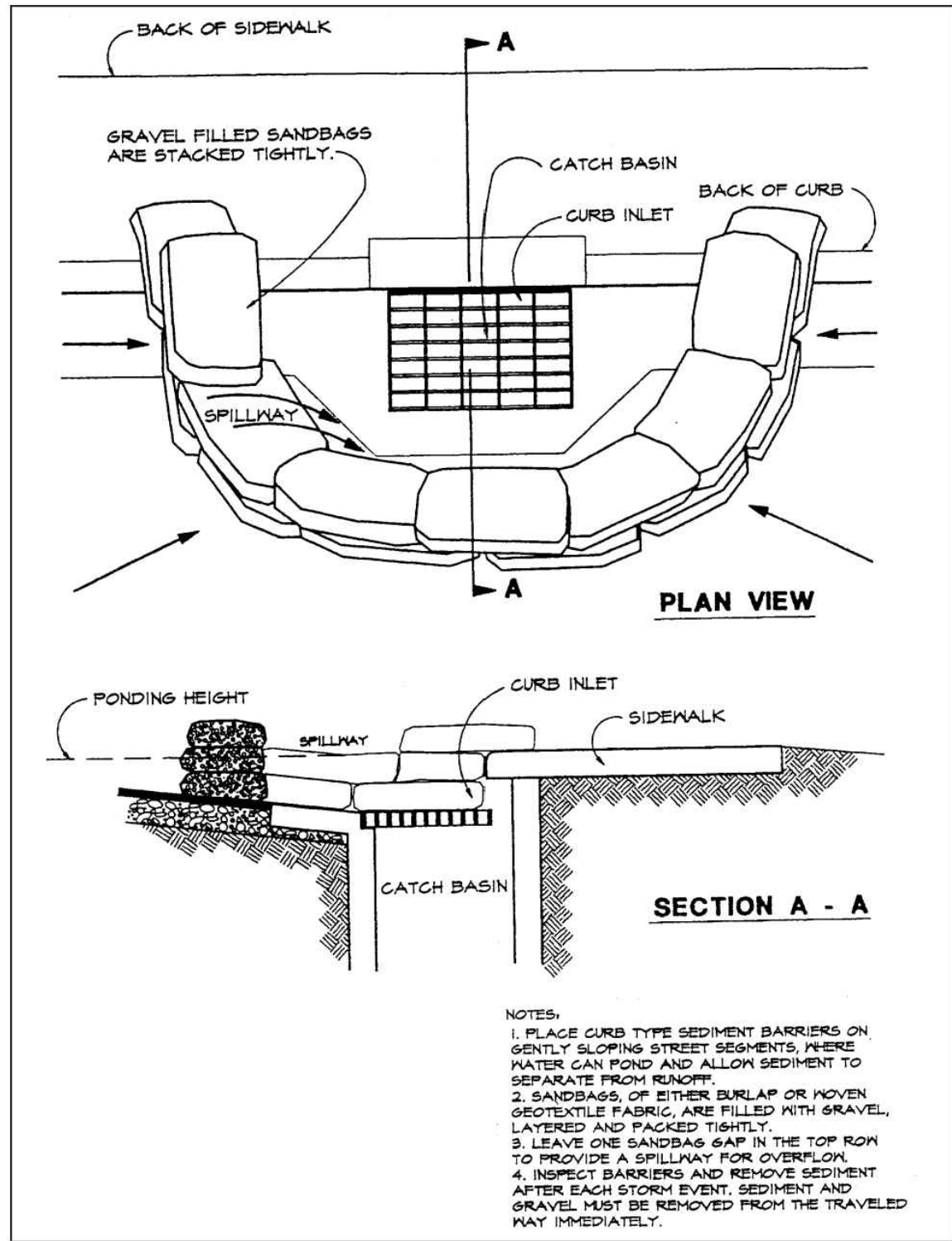


Plate 4.08o Curb Inlet Sediment Barrier
Source: Erosion Draw

4-52

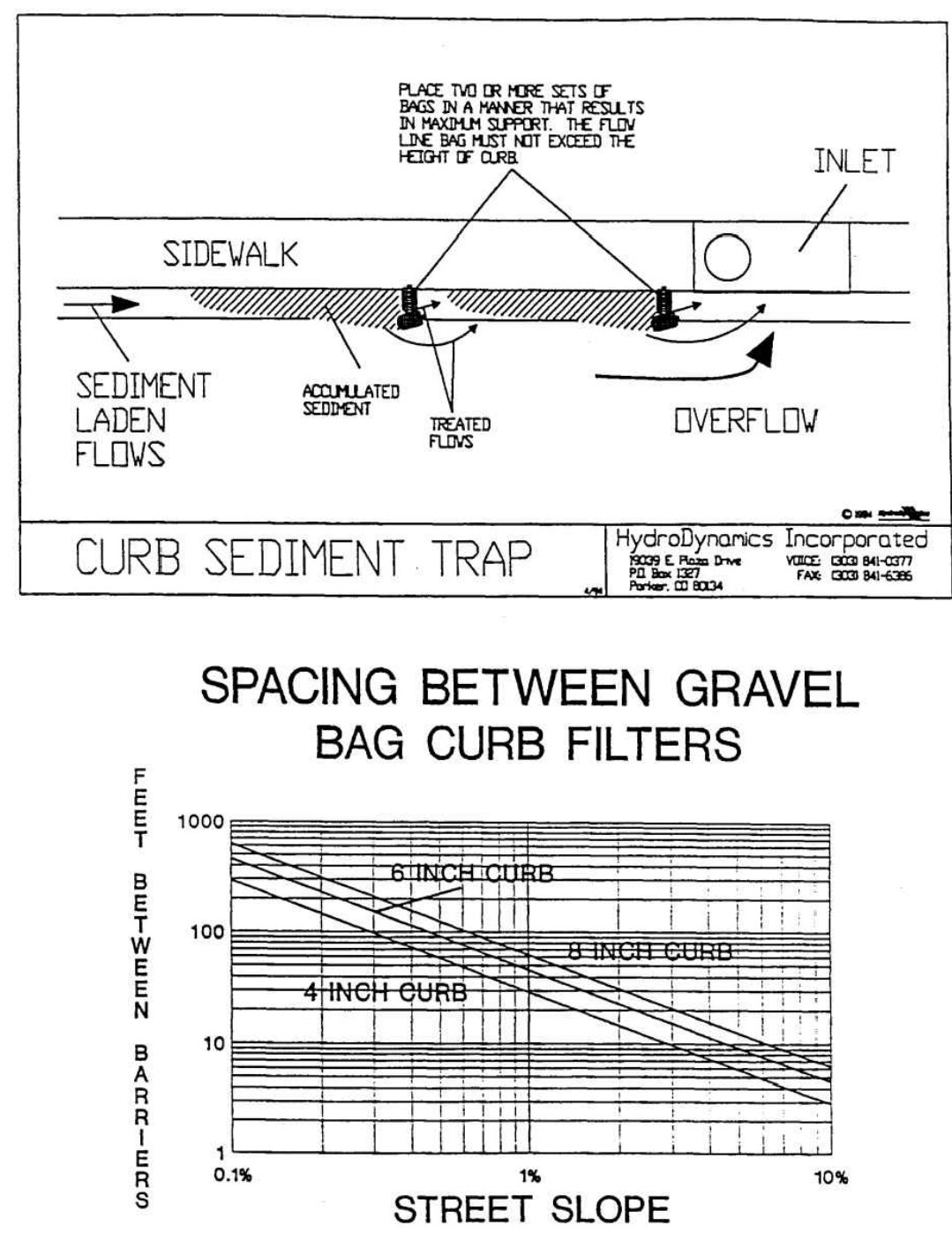


Plate 4.08p Gravel Bag Curb Sediment Filters
Source: HydroDynamics, Inc.

4-53

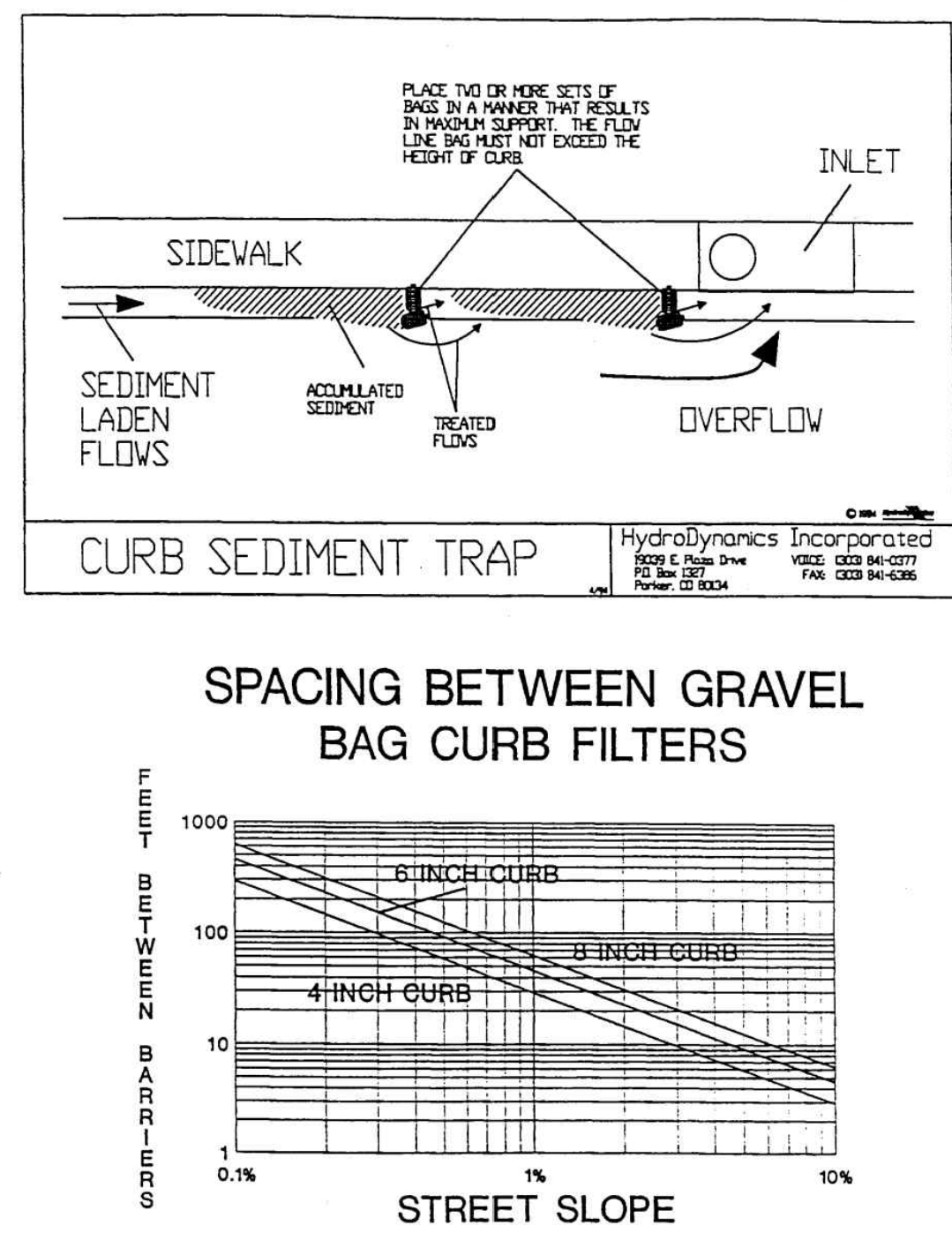


Plate 4.08q Gravel Bag Curb Sediment Filters
Source: HydroDynamics, Inc.

4-53

6.65 TEMPORARY SEEDING (ES BMP 1.65)

Definition

The establishment of a temporary vegetative cover on disturbed areas by seeding with appropriate rapidly growing annual plants.

Purposes

- To reduce erosion and sedimentation by stabilizing disturbed areas that will not be brought to final grade for a 30days or more.
- To reduce problems associated with mud and dust production from bare soil surfaces during construction.

Conditions Where Practice Applies

Where exposed soil surfaces are not to be fine graded for periods from 30 days or more. Such areas include denuded areas, soil stockpiles, dikes, dams, sides of sediment basins, temporary roadbanks, etc.

Specifications

Prior to seeding, install necessary erosion control practices such as dikes, waterways, and basins.

Plant Selection

Select plants appropriate to the season, region, and site conditions. Consult with your local Agricultural Extension agent, county, FDEP, WMD, or FDOT office, or Table 1.65a of The Florida Development Manual.

Seedbed Preparation

To control erosion on bare soil surfaces, plants must be able to germinate and grow. Seedbed preparation is essential. A soil test should be taken to determine liming and fertilization requirements. In the absence of a soil test the following guidelines should be followed:

- Liming:** Where soils are known to be highly acid (pH 6.0 and lower), lime should be applied at the rate of two tons of pulverized agricultural limestone per acre.
- Fertilizer:** Shall be applied as 450 lbs./acre of 10-20-20 (10 lbs./ 1,000 sq. ft.)(504 kg/ha) or equivalent. Lime and fertilizer shall be incorporated into the top 2 to 4 inches (5 to 10 cm) of the soil.
- Surface Roughening:** If the area has been recently loosened or disturbed, no

6-11

further roughening is required. When the area is compacted, crusted, or hardened, the soil surface shall be loosened by discing, raking, harrowing, or other acceptable means. See SURFACE ROUGHENING - Section 6.60 (ES BMP 1.60).

- Tracking:** Tracking with bulldozer cleats is most effective on sandy soils. This practice often causes undue compaction of the soil surface, especially in clayey soils, and does not aid plant growth as effectively as other methods of surface roughening.

Seeding

Seed shall be evenly applied with a cyclone seeder, drill, cultipacker seeder or hydroseeder. Small grains shall be planted no more than one inch deep. Grasses and legumes shall be planted no more than 1/4 inch (6 mm) deep.

Mulching

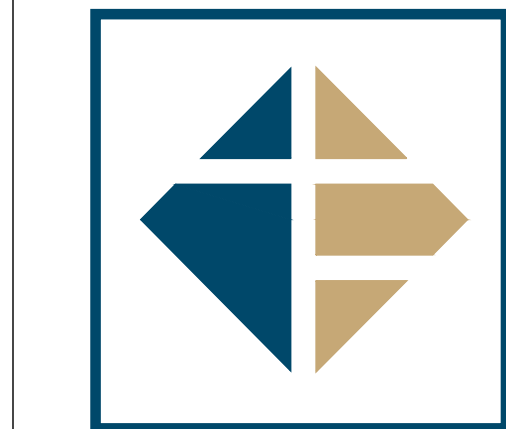
- Mulching should usually be used to reduce damage from water runoff or wind erosion, and to improve moisture conditions for seedlings. Mulching without seeding should be considered for very short term protection. The use of mulch is a judgment decision based on time of seeding and conditions of individual sites. When used, mulch shall be applied according to MULCHING - Section 6.75 (ES BMP 1.75).

- Seedings made on slopes in excess of 3:1, or on adverse soil conditions, or during excessively hot or dry weather, shall be mulched according to MULCHING - Section 6.75 (ES BMP 1.75).

- Seedings made during optimum spring and summer seeding dates, with favorable soil and site conditions, may not require mulch.

Re-seeding

Areas which fail to establish vegetative cover adequate to prevent rill erosion will be filled in with proper topsoil and re-seeded as soon as such areas are identified.



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ESPC DETAILS VI

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PROJECT INFORMATION BLOCK	
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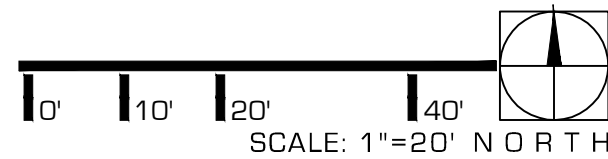
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**IRRIGATION
PLAN**

IR100



SITE WATER ENGINEERING SERVICES
323 W. DRAKE RD, SUITE 204
FORT COLLINS, COLORADO 80526
Telephone: 970.282.1800
Web: www.hinesinc.com



IRRIGATION LEGEND

- SLEEVES: CLASS 200 PVC
- POINT-OF-CONNECTION ASSEMBLY
- MAINLINE PIPE: CLASS 200 PVC
1 1/4-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC
1-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SHRUB EMITTERS: CLASS 200 PVC
1-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO TREE BUBBLERS: CLASS 200 PVC
1-INCH SIZE UNLESS OTHERWISE INDICATED
- UNCONNECTED PIPE CROSSING
- INLINE DRIP TUBING: NETAFIM TLCV09-12 WITH RAINBIRD XOF DRIPLINE HEADER
0.9 GPH EMITTERS, 12' EMITTER SPACING, 18' ROW SPACING
- REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS:
WEATHERMATIC MAX-DW (SIZED PER PLAN)
- REMOTE CONTROL DRIP VALVE ASSEMBLY: WEATHERMATIC SCZ-MAX-DW-10
- QUICK COUPLING VALVE ASSEMBLY: RAIN BIRD SRC
- ISOLATION GATE VALVE ASSEMBLY: MATCO S14
- FLOW SENSOR ASSEMBLY: WEATHERMATIC SLFSI-T10
- MASTER VALVE ASSEMBLY: 1-INCH WEATHERMATIC MAX-DW
- POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX6PRS40-CV
W/HUNTER MPSTRIP NOZZLE
PRESSURE: 40 PSI RADIUS: ADJUSTABLE RECTANGULAR SPRAY
FLOW (GPM): SST - 5'X30'-0.22 LCS/RCS - 4'X15'-0.44
- POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX6PRS40-CV W/HUNTER MP1000 NOZZLES
PRESSURE: 40 PSI RADIUS: 8 FEET TO 15 FEET
FLOW (GPM): M-0.42 L-0.63 O-0.84
- POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX6PRS40-CV W/HUNTER MP2000 NOZZLES
PRESSURE: 40 PSI RADIUS: 13 FEET TO 21 FEET
FLOW (GPM): K-0.77 G-1.10 R-1.48
- POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX6PRS40-CV W/HUNTER MP3000 NOZZLES
PRESSURE: 40 PSI RADIUS: 22 FEET TO 30 FEET
FLOW (GPM): B-1.82 Y-2.73 A-3.64
- POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX6PRS40-CV
W/HUNTER MP3500 NOZZLE
PRESSURE: 40 PSI RADIUS: 31 FEET TO 35 FEET
FLOW (GPM): 90'-1.28 180'-2.86 210'-3.29
- TREE BUBBLER ASSEMBLY: TWO (2) WEATHERMATIC MAX6PRS30-CV SPRAY BODIES
W/ 106-50 BUBBLER NOZZLES
PRESSURE: 30 PSI FLOW (GPM): 0.50 PER BUBBLER; 1.00 PER ASSEMBLY

- INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES LANDSCAPE APPLICATION

- IRRIGATION CONTROLLER UNIT BUNDLE WITH WEATHERSTATION:
WEATHERMATIC SLWM-SS-4848-10YR-BDL-FLOW-CHASE
- IRRIGATION CONTROL WIRES IN CONDUIT OR WITH WARNING TAPE

INSTALLATION GENERAL NOTES

- THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 55 PSI (DOWNSTREAM OF THE IRRIGATION BACKFLOW PREVENTER), AT A MAXIMUM DISCHARGE OF 12 GPM AT THE 1-INCH IRRIGATION POINT-OF-CONNECTION (POC). VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.
- READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- COORDINATE UTILITY LOCATES ('CALL BEFORE YOU DIG') OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS; AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.
 - USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF TEES IN THE BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
- PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
 - TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.
 - TWO (2) OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.
- SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR. PIPE SLEEVES SHALL BE SIZED TWICE THE NOMINAL SIZE OF THE PIPE PASSING THROUGH.
- INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
- THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
- INSTALL TWO (2) #14 AWG CONTROL WIRES ON STANDARD WIRE SYSTEMS OR ONE (1) #14 AWG TWO-WIRE PAIR ON TWO-WIRE SYSTEMS, FOR USE AS SPARES. INSTALL SPARE WIRES FROM CONTROLLER LOCATION TO EACH DEAD-END OF MAINLINE. COIL 3 FEET OF WIRE IN VALVE BOX.

CHASE BANK DESIGN NOTE

THESE IRRIGATION PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH CHASE BANK PROTOCOL 20.6 AND THE CHASE BANK WATER CONSERVATION APPROACH. THE IRRIGATION SYSTEM SHALL BE CONSTRUCTED ACCORDING TO THE PLANS AND SPECIFICATIONS INCLUDED IN THIS CONSTRUCTION DOCUMENT PACKAGE WITH NO EXCEPTION. EQUIPMENT SUBSTITUTIONS OF ANY KIND ARE NOT PERMITTED.

CONSTRUCTION NOTES

- THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE TO THE 1-INCH IRRIGATION SERVICE DOWNSTREAM OF A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER, INSTALLED TO THIS APPROXIMATE LOCATION BY OTHERS. MAKE CONNECTION AND INSTALL IRRIGATION COMPONENTS AS SHOWN. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
- WALL MOUNT THE IRRIGATION CONTROLLER AND CELLULAR AIRCARD AT THE APPROXIMATE LOCATION SHOWN ON EXTERIOR OF BUILDING AND ACCORDING TO CHASE BANK STANDARDS. COORDINATE ELECTRICAL POWER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- IRRIGATION SHOWN OUT OF LANDSCAPED AREA FOR CLARITY ONLY. INSTALL IRRIGATION COMPONENTS WITHIN LANDSCAPED AREA.

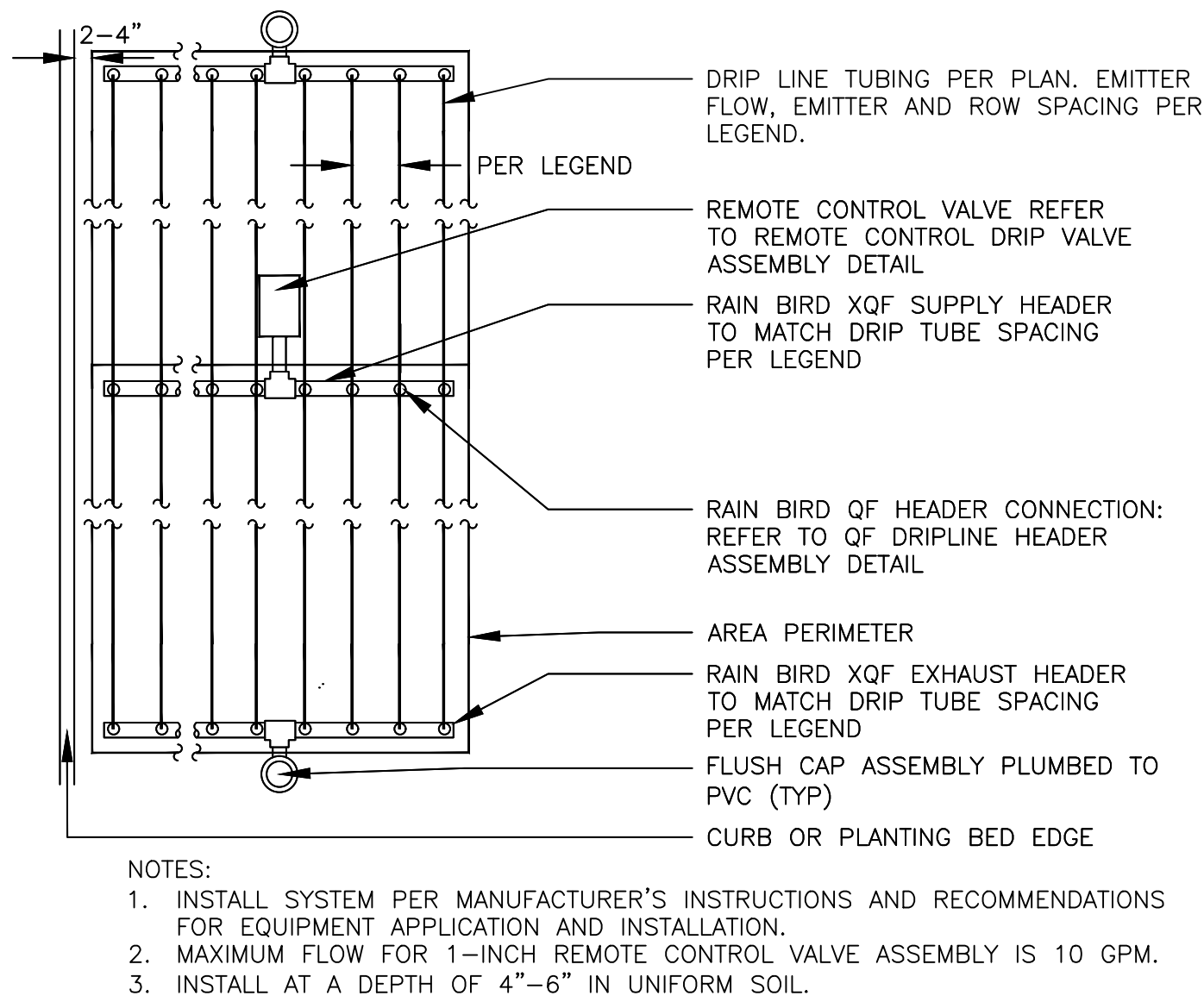
THE WEATHERMATIC IRRIGATION CONTROLLER MEETS CHASE REQUIREMENTS AND WILL PROVIDE UNIQUE CONNECTION TO THE BANK BUILDING MONITORING SYSTEM, LONG-TERM COMMUNICATIONS, AND MANAGED SERVICES. CONTACT THE DISTRIBUTOR FOR ALL IRRIGATION EQUIPMENT ORDERING.

REQUIRED: AFTER INSTALLATION AND ONLINE SET UP OF THE SMARTLINK CONTROL SYSTEM USING THE PRODUCT INSTRUCTIONS INCLUDED, CONTACT WEATHERMATIC TO PROVIDE THE SITE NAME AND CONTROLLER NAME IN SMARTLINK FOR FINAL ACTIVATION. EMAIL: JPMCsupport@weathermatic.com

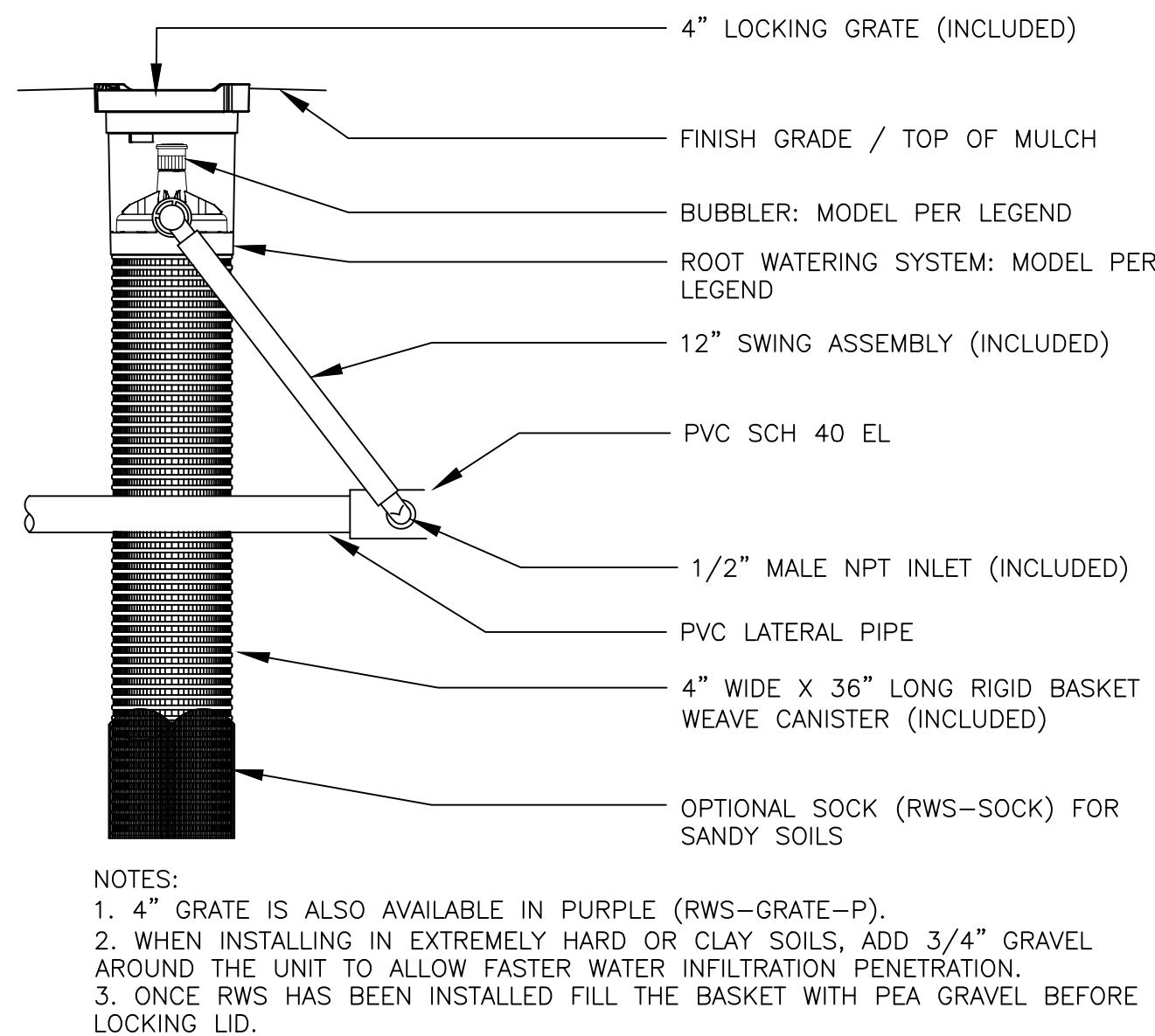


REQUIRED: AFTER INSTALLATION AND ONLINE SET UP OF THE SMARTLINK CONTROL SYSTEM USING THE PRODUCT INSTRUCTIONS INCLUDED, CONTACT WEATHERMATIC TO PROVIDE THE SITE NAME AND CONTROLLER NAME IN SMARTLINK FOR FINAL ACTIVATION.
EMAIL: JPMCsupport@weathermatic.com

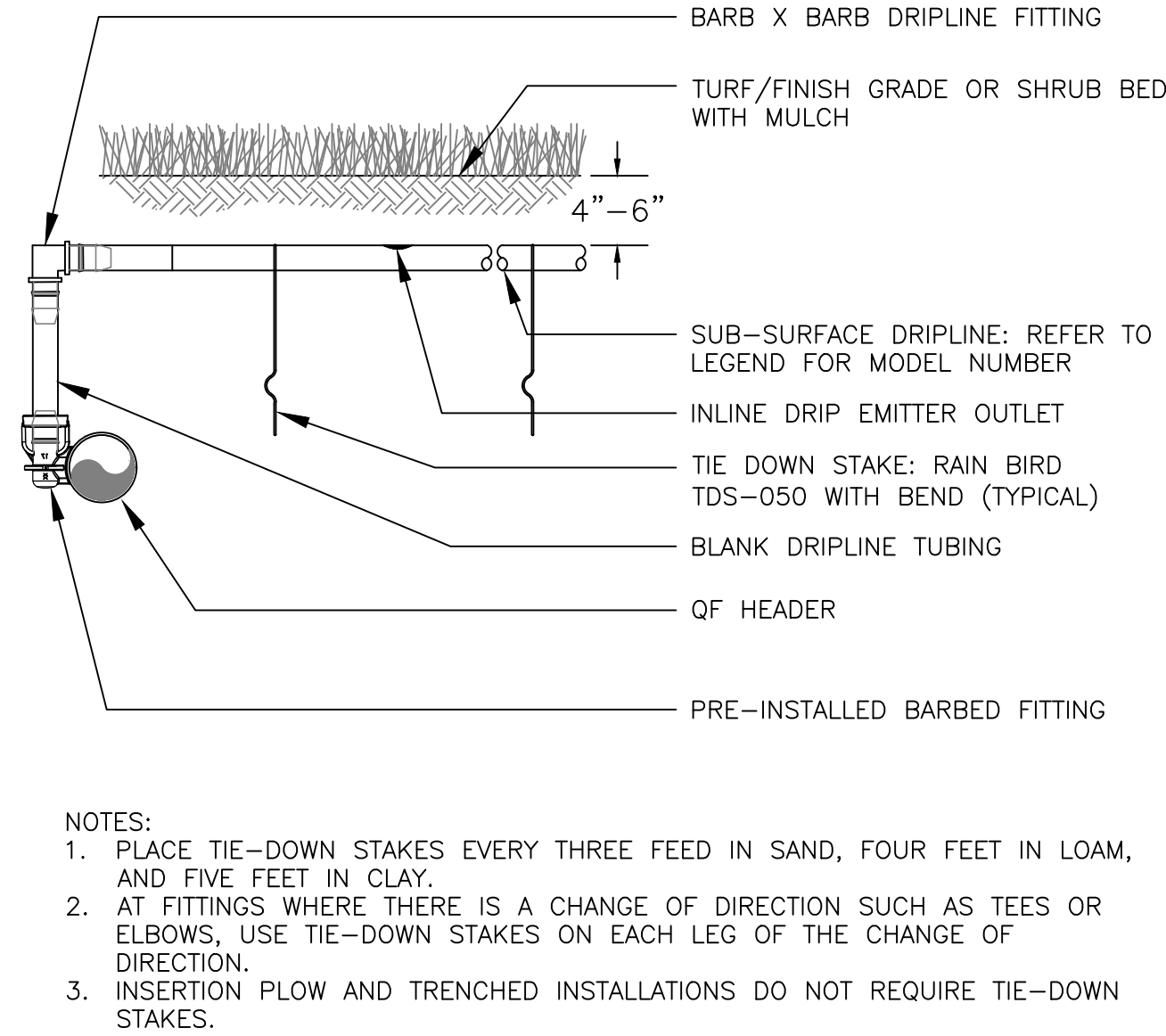




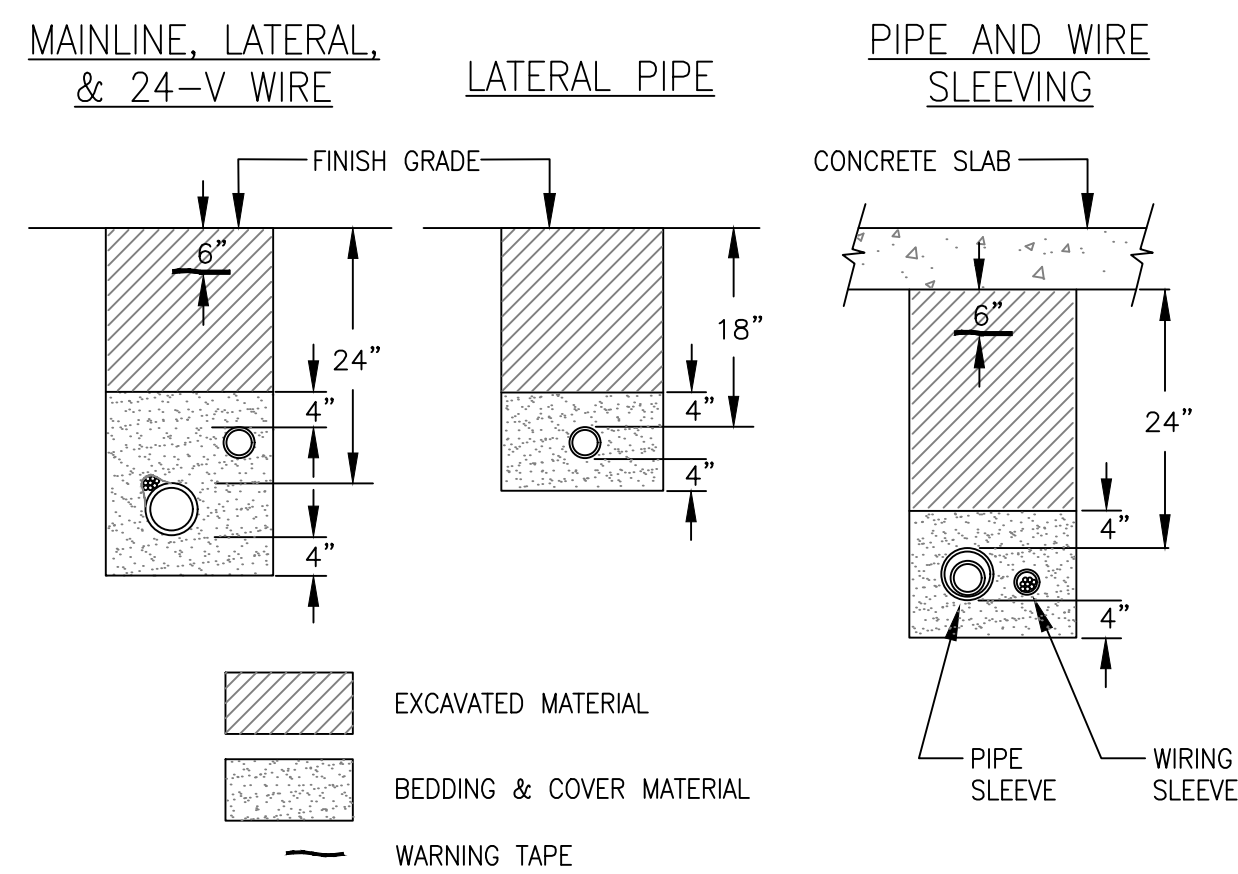
10 SUBSURFACE DRIP ASSEMBLY IN SHRUB BEDS



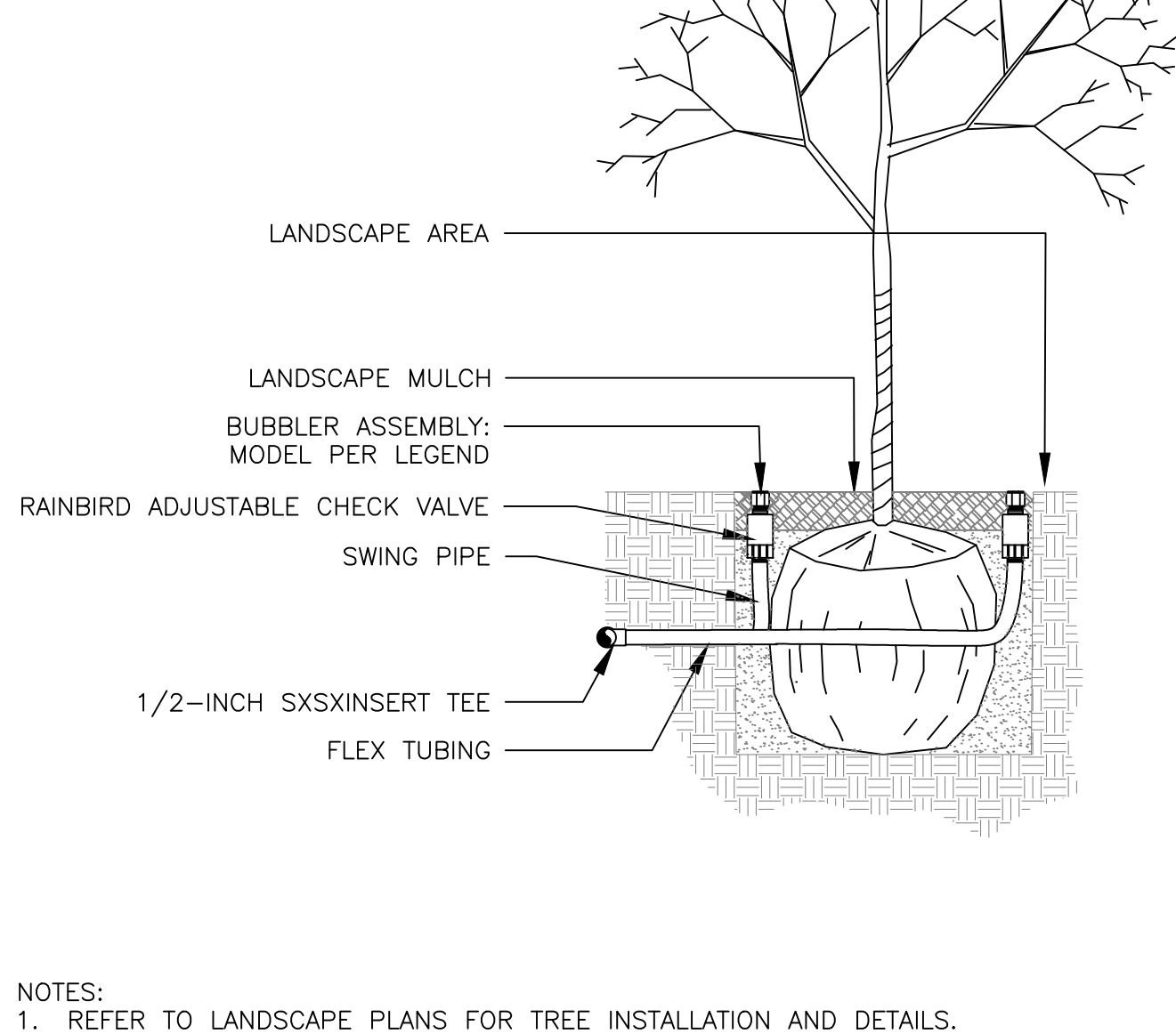
14 TREE WATERING SYSTEM FOR TREES IN TURF-ELEVATION



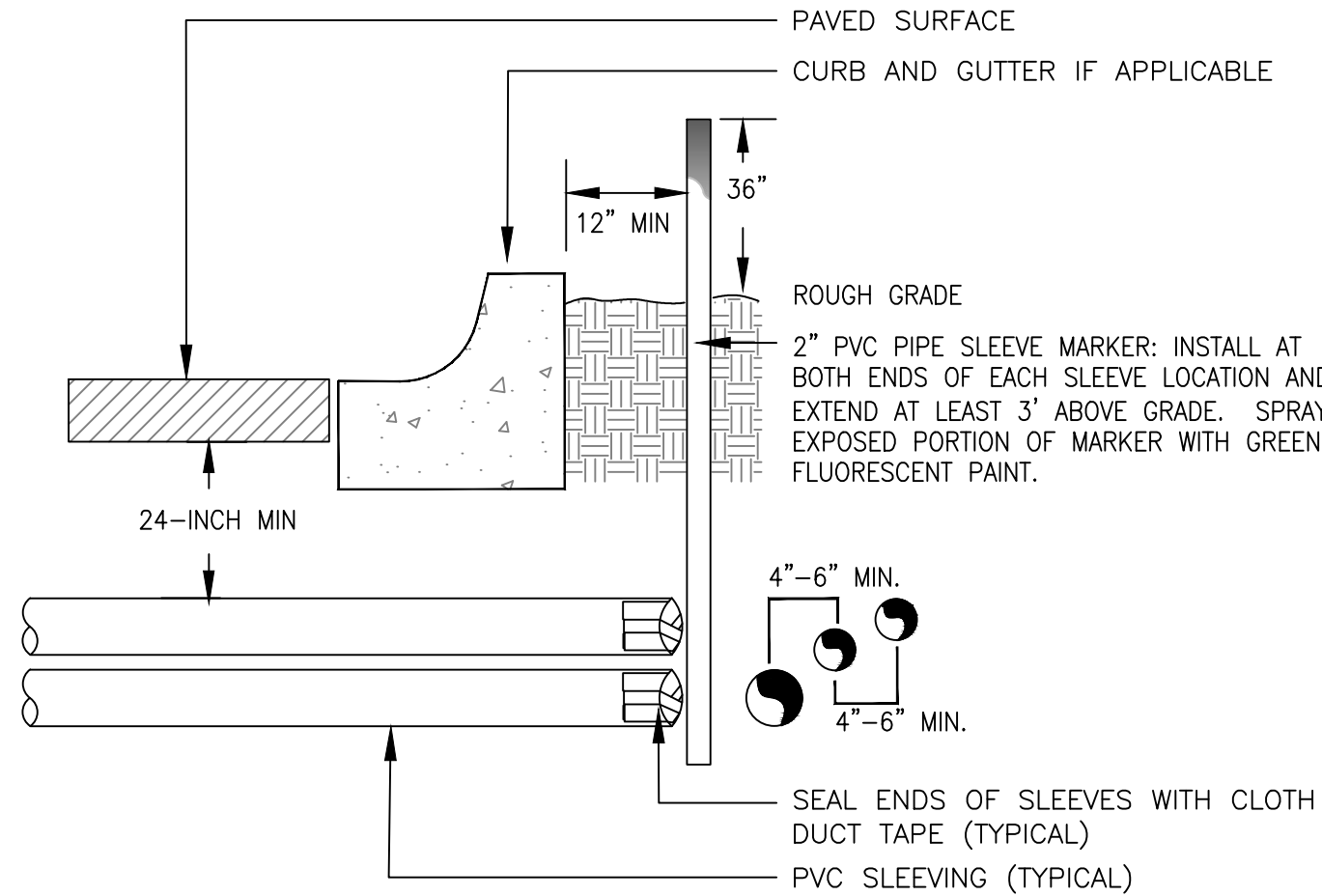
11 QF DRIPLINE HEADER ASSEMBLY



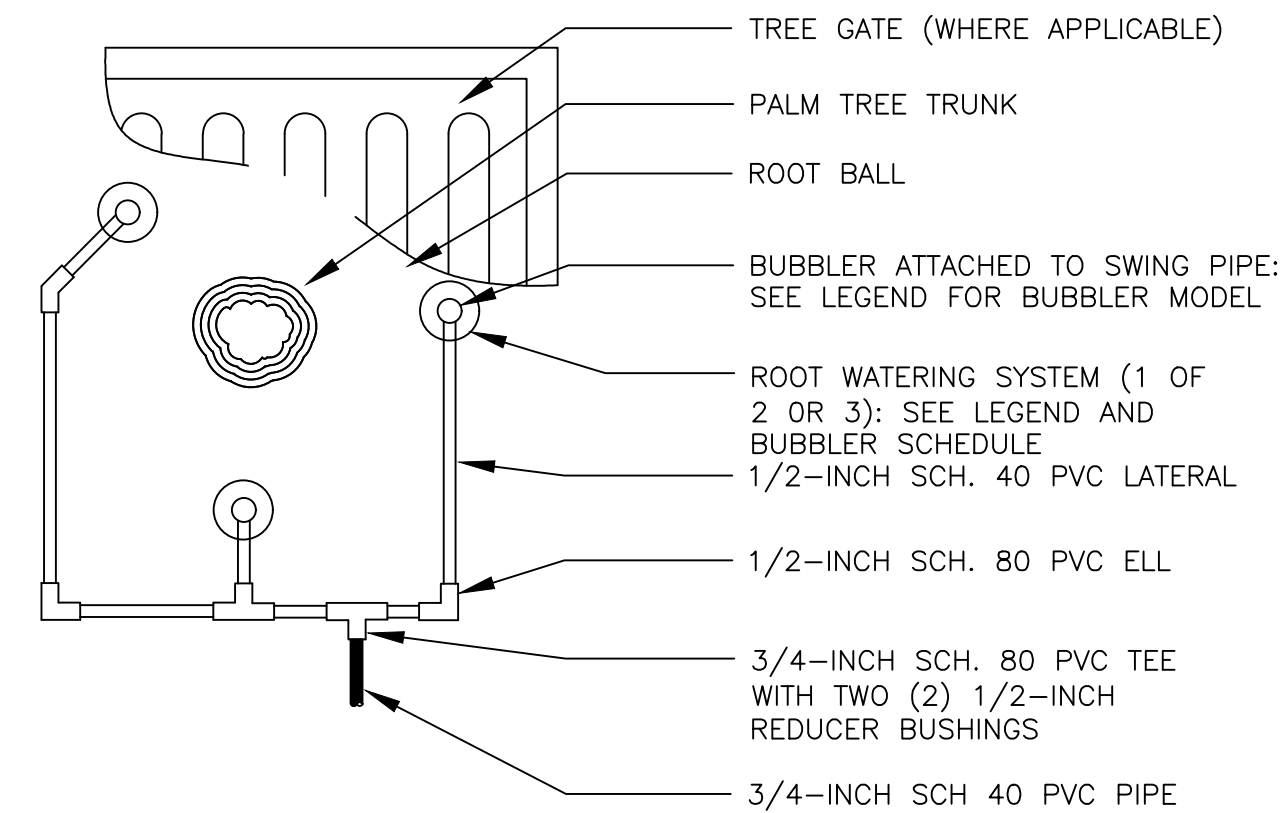
15 TYPICAL TRENCHING DETAIL



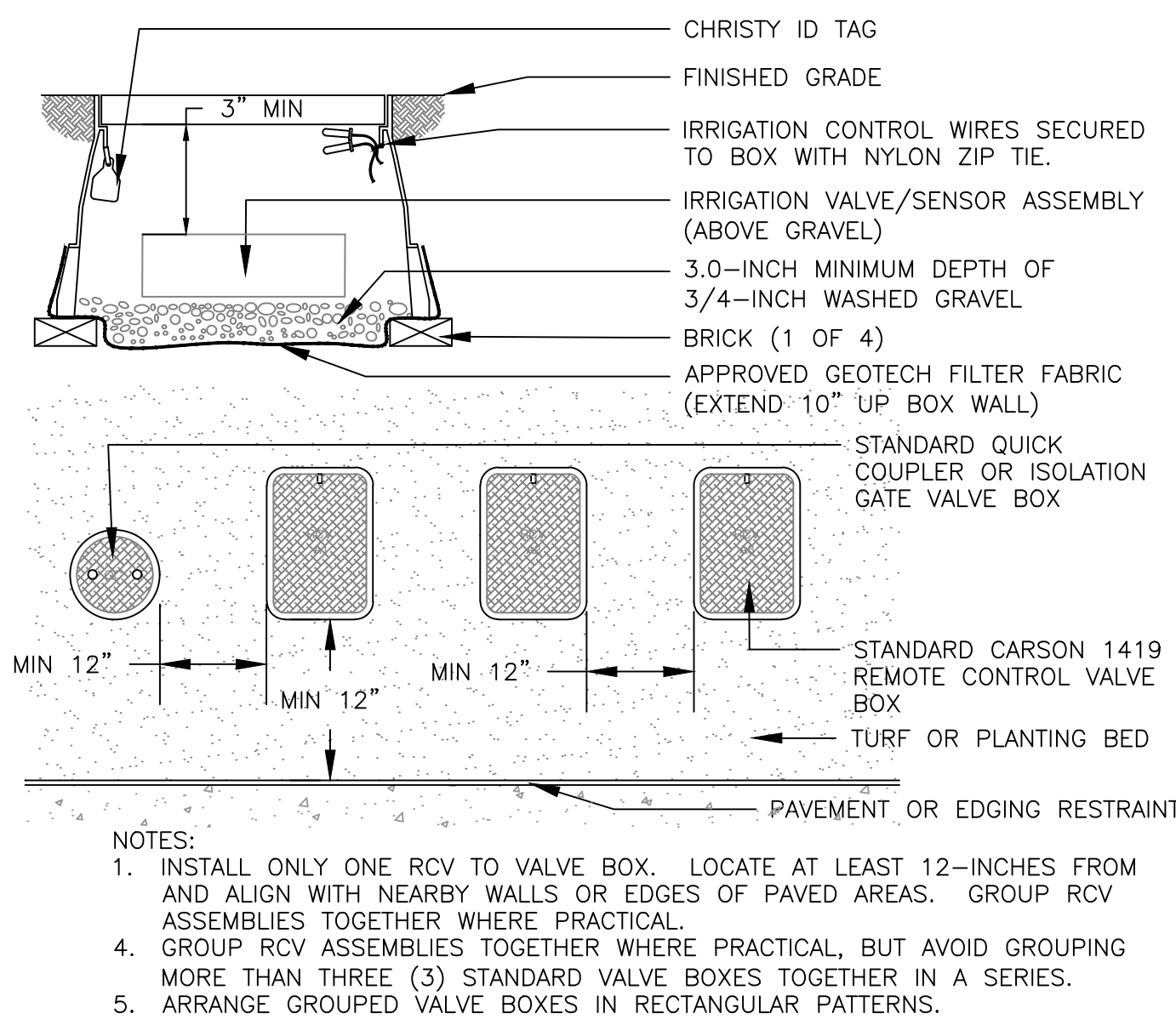
12 BUBBLER ASSEMBLY FOR TREES IN SHRUB AREAS



16 TYPICAL SLEEVING DETAIL



13 TREE WATERING SYSTEM FOR TREES IN TURF-PLAN VIEW



17 TYPICAL VALVE BOX INSTALLATION



INGENIUM ENTERPRISES, INC.
5991 PARKWAY NORTH BLVD.
SUITE A
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PHONE: (770) 437-8850
FBPE CERT. OF AUTHORITY #8370

CHASE

WILDLIGHT
JPM Chase Retail Banking Center
SR-200(A1A) & HARPER CHAPEL RD
YULEE, FLORIDA 32097



ISSUE/BY	DATE	DESCRIPTION
	06.11.24	RESPONSE TO COMMENTS

PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	04-29-2024
DRAWN BY:	MM
CHECKED BY:	SH

SHEET TITLE

IRRIGATION
DETAILS

IR201

Hines Inc
SITE WATER ENGINEERING SERVICES
323 W. DRAKE RD. SUITE 204
FORT COLLINS, COLORADO 80526
Telephone: 970.282.1800
Web: www.hinesinc.com



landscape architecture
land planning
placemaking

Foley, Alabama
P. 251.948.7181

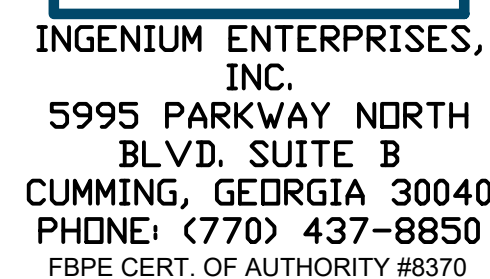
Mobile, Alabama
P. 251.344.4023

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Pensacola, Florida
P. 850.203.4252

www.was-design.com

232056-094



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SEAR

ISSUE/BY	DATE	DESCRIPTION
	12.13.23	PERMIT SUBMITTAL
	02.23.24	RESPONSE TO COMMEN
	04.24.24	PERMIT RESUBMITTAL
	05.02.24	RESPONSE TO COMMEN
	07.17.24	RESPONSE TO COMMEN
	07.29.24	RESPONSE TO COMMEN

PROJECT INFORMATION BLOCK

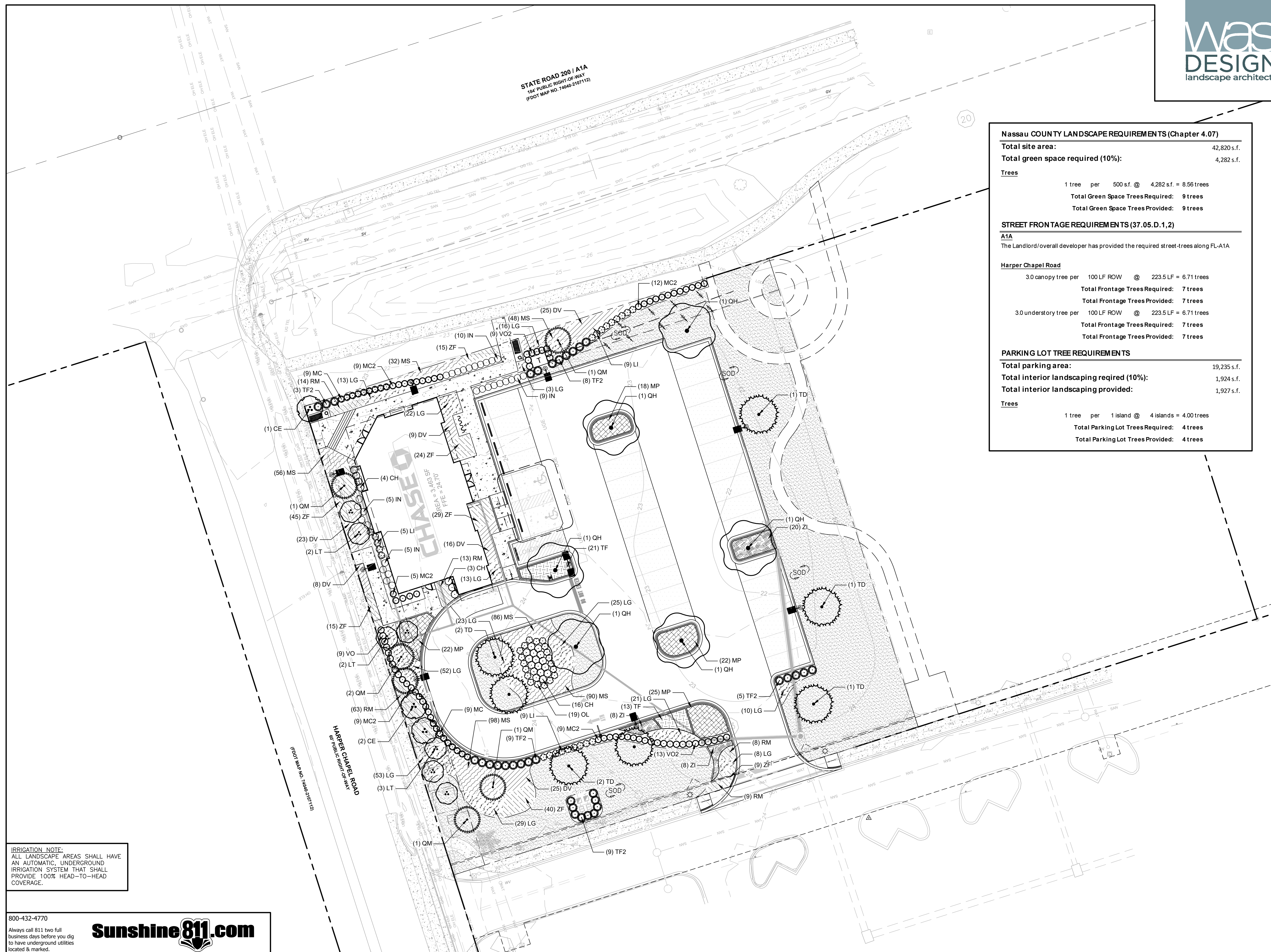
JOB #:	23006
DATE:	11.16.2
DRAWN BY:	DC
CHECKED BY:	DC
INGENIUM PROJECT #	23006
SHEET TITLE	

LANDSCAPE PLANTING PLAN

SHEET NUMBER

LP100

ISSUE FOR PERMIT	
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IRRIGATION NOTE:
ALL LANDSCAPE AREAS SHALL HAVE
AN AUTOMATIC, UNDERGROUND
IRRIGATION SYSTEM THAT SHALL
PROVIDE 100% HEAD-TO-HEAD
COVERAGE.

800-432-4770

Always call 811 two full business days before you dig to have underground utilities located & marked.

Sunshine811.com

1 LANDSCAPE PLANTING PLAN
Scale: 1" = 20'

Scale: 1" = 20'

PLANT SCHEDULE

SYMBOL	CODE	ESTIMATED QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT
TREES						
	CE	3	CERCIS CANADENSIS / REDBUD MULTI-TRUNK MINIMUM 3 TRUNKS: ALL TRUNKS SHALL BE A MINIMUM OF 1" CAL, FULL HEAD	B&B OR CONT	3"CAL	8'-10'
	LT	7	LAGERSTROEMIA INDICA X FAURIEI 'TONTON' / TONTO CRAPE MYRTLE MULTI-TRUNK MINIMUM 3 TRUNKS: ALL TRUNKS SHALL BE A MINIMUM OF 2" CAL, FULL HEAD	B&B OR CONT	6"CAL	8'-10'
	QM	6	QUERCUS MYRTIFOLIA / MYRTLE OAK SPECIMEN QUALITY, SINGLE STRAIGHT TRUNK AND FULL FORM	B&B OR CONT	3"CAL	8'-10'
	QH	6	QUERCUS VIRGINIANA 'QV'TIA' / HIGHRISE LIVE OAK	B&B OR CONT	3"CAL	8'-10'
	TD	7	TAXODIUM DISTICHUM / BALD CYPRESS FULL HEAD, SPECIMEN QUALITY	B&B OR CONT	3"CAL	8'-10'

SYMBOL	CODE	ESTIMATED QTY	BOTANICAL / COMMON NAME	CONT	HT	SPACING
SHRUBS						
	CH	23	CAMELLIA HIEMALIS 'SHISHI GASHIRA' / CAMELLIA FULL FORM	3 GAL	18"	42" o.c.
	IN	29	ILEX VOMITORIA 'NANA' / DWARF YAUPON HOLLY	3 GAL	18"	36" o.c.
	LI	23	LOROPETALUM CHINENSE 'SHANG-WHITE' TM / EMERALD SNOW LOROPETALUM	3 GAL	18"	36" o.c.
	MC2	44	MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS	3 GAL		36" o.c.
	MC	18	MYRICIA CERIFERA / WAX MYRTLE	7 GAL	36"	36" o.c.
	OL	19	NERIUM OLEANDER 'PETITE PINK' / PETITE PINK OLEANDER FULL FORM	3 GAL	18"	36" o.c.
	TF2	34	TRIPSACUM DACTYLOIDES / FAKAHATCHEE GRASS	3 GAL		48" o.c.
	VO	9	VIBURNUM OBOVATUM / WALTER'S VIBURNUM	7 GAL	36"	36" o.c.
	VO2	22	VIBURNUM ODORATISSIMUM / SWEET VIBURNUM	7 GAL	36"	36" o.c.

SHRUB AREAS						
	MP	87	MUHLENBERGIA CAPILLARIS / PINK MUHLY	3 GAL		36" o.c.
	TF	34	TRIPSACUM DACTYLOIDES / FAKAHATCHEE GRASS	3 GAL		36" o.c.
	ZI	36	ZAMIA INTEGRIFOLIA / COONTIE	3 GAL		36" o.c.

GROUND COVERS						
	DV	106	DIETES VEGETA / AFRICAN IRIS	1 GAL		30" o.c.
	LG	288	LIRIOPE MUSCARI 'EVERGREEN GIANT' / EVERGREEN GIANT LILYTURF	1 GAL		24" o.c.
	MS	410	MIMOSA STRIGILLOSA / SUNSHINE MIMOSA	1 GAL		18" o.c.
	RM	107	ROSA X 'MEIGGILI' / PEACH DRIFT ROSE	1 GAL		24" o.c.
	ZF	177	ZAMIA FLORIDANA / FLORIDA COONTIE	1 GAL		24" o.c.

SOD/SEED						
	SS	12,990 SF	STENOTAPHRUM SECUNDATUM / ST. AUGUSTINE GRASS	SOD		

NOTE

ALL TREES SHALL HAVE A THREE (3) INCH MINIMUM TRUNK DIAMETER, MEASURED SIX (6) INCHES ABOVE GROUND LEVEL. ALL TREES SHALL BE STAKED OR GUYED FOR A PERIOD OF AT LEAST SIX (6) MONTHS.

NOTE

SHRUBS SHALL HAVE A MINIMUM HEIGHT OF EIGHTEEN (18) INCHES WHEN PLANTED. WHEN PLANTED AS A HEDGE, THE MAXIMUM SPACING IS THIRTY (30) INCHES ON CENTER AND MINIMUM HEIGHT IS THIRTY-SIX (36) INCHES.

800-432-4770

Always call 811 two full business days before you dig to have underground utilities located & marked.



GENERAL CONDITIONS

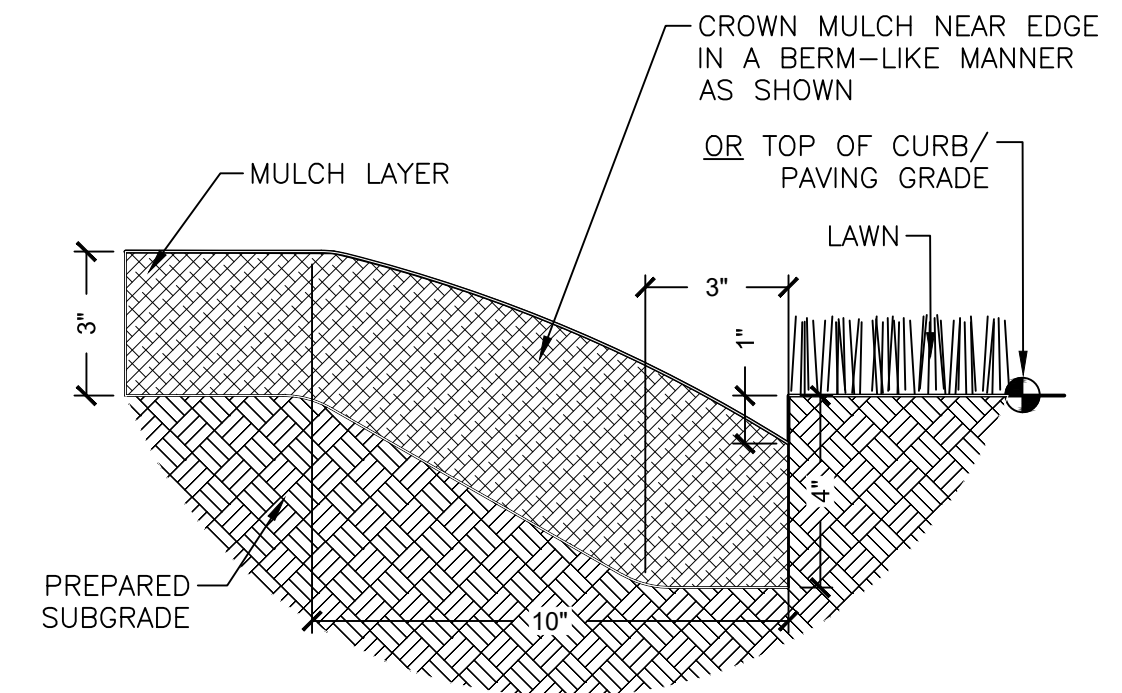
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE INSPECTION PRIOR TO LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO ACQUAINT HIMSELF WITH EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF LANDSCAPE MATERIAL AT ALL TIMES. LANDSCAPE CONTRACTOR TO COORDINATE SAFE STAGING AREA WITH GENERAL CONTRACTOR AND/OR OWNER.
- CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL, INCLUDING GRASS, FOR 365 CONSECUTIVE CALENDAR DAYS FROM SUBSTANTIAL COMPLETION OF THE WORK, AS DETERMINED BY THE PROJECT LANDSCAPE ARCHITECT.
- ALL AREAS IMPACTED NEGATIVELY BY CONSTRUCTION PROCESSES SHALL BE RETURNED TO ORIGINAL CONDITION OR BETTER PRIOR TO SUBSTANTIAL COMPLETION.
- LANDSCAPE AREA SOIL PREPARATION
 - SOIL SHALL BE AMENDED BY THE ADDITION OF COMPOST AND FERTILIZER.
 - COMPOST TYPE SHALL BE MUSHROOM COMPOST OR DECOMPOSED PINE BARK, AND SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE. COMPOST SHALL BE UNIFORMLY APPLIED OVER PLANTING BEDS AT AN AVERAGE DEPTH OF 2 INCHES AND OVER SOD AREAS AT AN AVERAGE DEPTH OF 3/4 INCH.
 - INCORPORATE UNIFORMLY IN PLANTING BEDS TO A DEPTH OF 6 INCHES AND IN SOD AREAS TO A DEPTH OF 3 INCHES USING A ROTARY TILLER OR OTHER APPROPRIATE EQUIPMENT. PRE-PLANT FERTILIZER AND PH ADJUSTING AGENTS (E.G., LIME AND SULFUR) MAY BE APPLIED IN CONJUNCTION WITH COMPOST INCORPORATION, AS NECESSARY.
 - RAKE SOIL SURFACE SMOOTH PRIOR TO PLANTING.
 - REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
 - WATER THOROUGHLY AFTER PLANTING.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 3% POSITIVE DRAINAGE IN ALL PLANTING BEDS. ANY OTHER PROPOSED DRAINAGE METHODS SHALL BE COORDINATED WITH PLANTING EFFORTS TO MINIMIZE CONFLICTS AND MAINTAIN PROPER FUNCTION OF DRAINAGE SYSTEMS.

PLANT MATERIAL AND PLANTING

- PLANT QUANTITIES ARE OFFERED AS A CONVENIENCE TO THE CONTRACTOR, AND ARE NOT ABSOLUTE. CONTRACTOR SHALL VERIFY PLANT COUNT FROM PLAN AND REPORT DIFFERENCES.
- ALL PLANT MATERIALS ARE SUBJECT TO APPROVAL OR REFUSAL AT ANY TIME BY THE OWNER OR LANDSCAPE ARCHITECT AT THE JOB SITE.
- PLANTS SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM INJURY, INSECTS AND DISEASES. PLANTS SHALL EQUAL OR SURPASS NO. 1 QUALITY AS DEFINED IN THE CURRENT ISSUE OF "FLORIDA GRASSES & STANDARDS FOR NURSERY PLANTS" AS PUBLISHED BY FLORIDA DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES DIVISION OF PLANT INDUSTRY (DPI).
- UNLESS NOTED SPECIFICALLY, ALL PLANT MATERIAL SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN.
- FRONT ROW OF SHRUBS SHALL BE PLANTED FROM CENTER OF PLANT A MINIMUM OF 24" BEHIND BED LINE @ LAWNS OR WALKS AND A MINIMUM OF 36" BACK OF CURB @ PARKING SPACES.
- NO PRUNING SHOULD BE PERFORMED DURING FIRST GROWING SEASON EXCEPT FOR REMOVING DAMAGED OF DEAD GROWTH. WOUND PAINT IS NOT RECOMMENDED FOR ANY CUTS.
- ALL PLANTING AREAS, TREE PITS, AND OTHER AREAS INDICATED ON PLANS SHALL BE MULCHED WITH A SETTLED LAYER OF THE INDICATED MULCH:
 - 3" DEPTH PINE BARK
 - 4" DEPTH SHREDDED HARDWOOD MULCH
 - 3" DEPTH PINESTRAW
- TRENCH EDGE TO BE LOCATED BETWEEN ALL PLANTING AREAS AND LAWN, UNLESS NOTED OTHERWISE.
- TREE STAKING SHALL BE PROVIDED TO KEEP TREES PLUMB AND PROTECTED FROM EXCESSIVE WINDS. ALL TREE-STAKING APPARATUS SHALL BE REMOVED AT THE END OF THE ONE-YEAR WARRANTY PERIOD.

6 FLORIDA PLANTING NOTES

1" = 1"

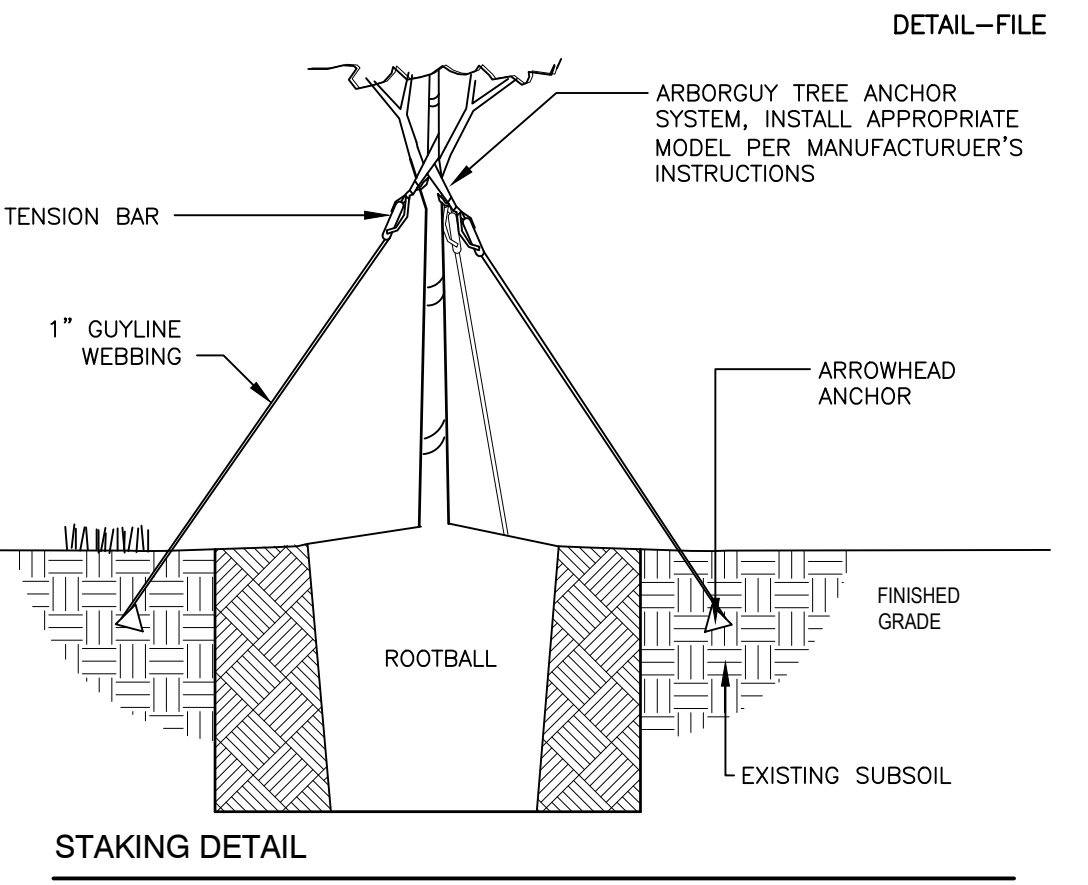
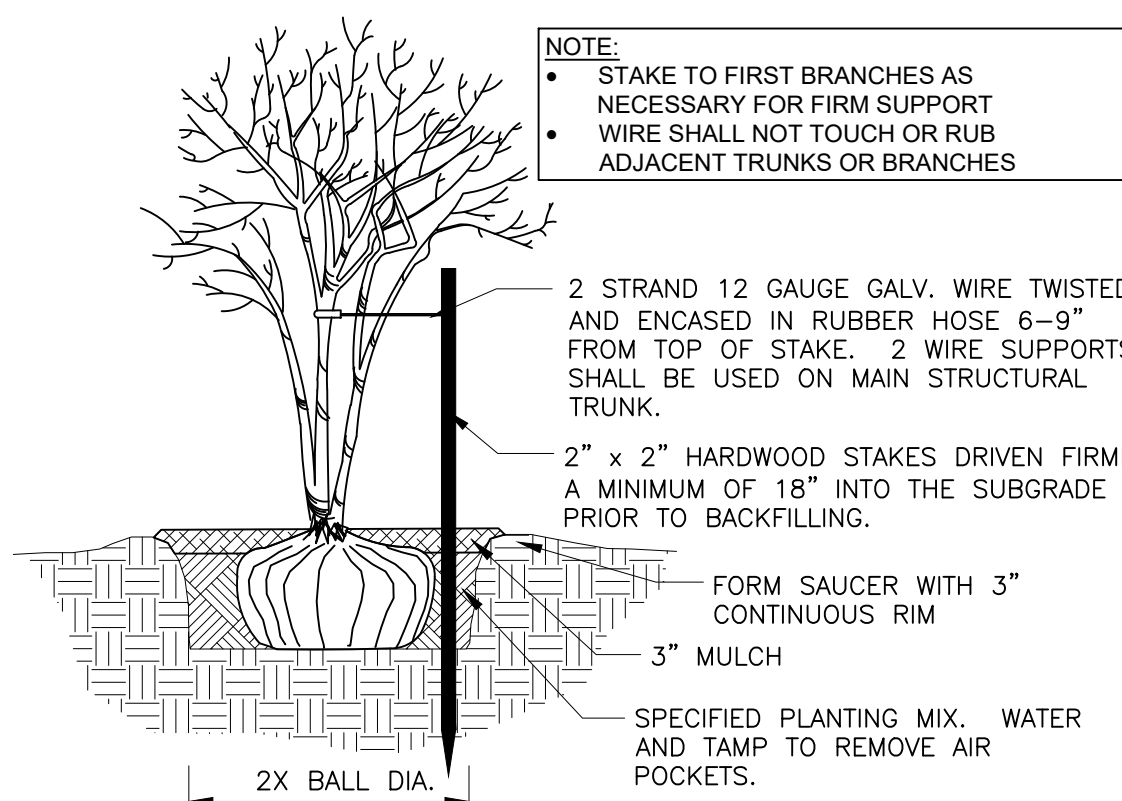
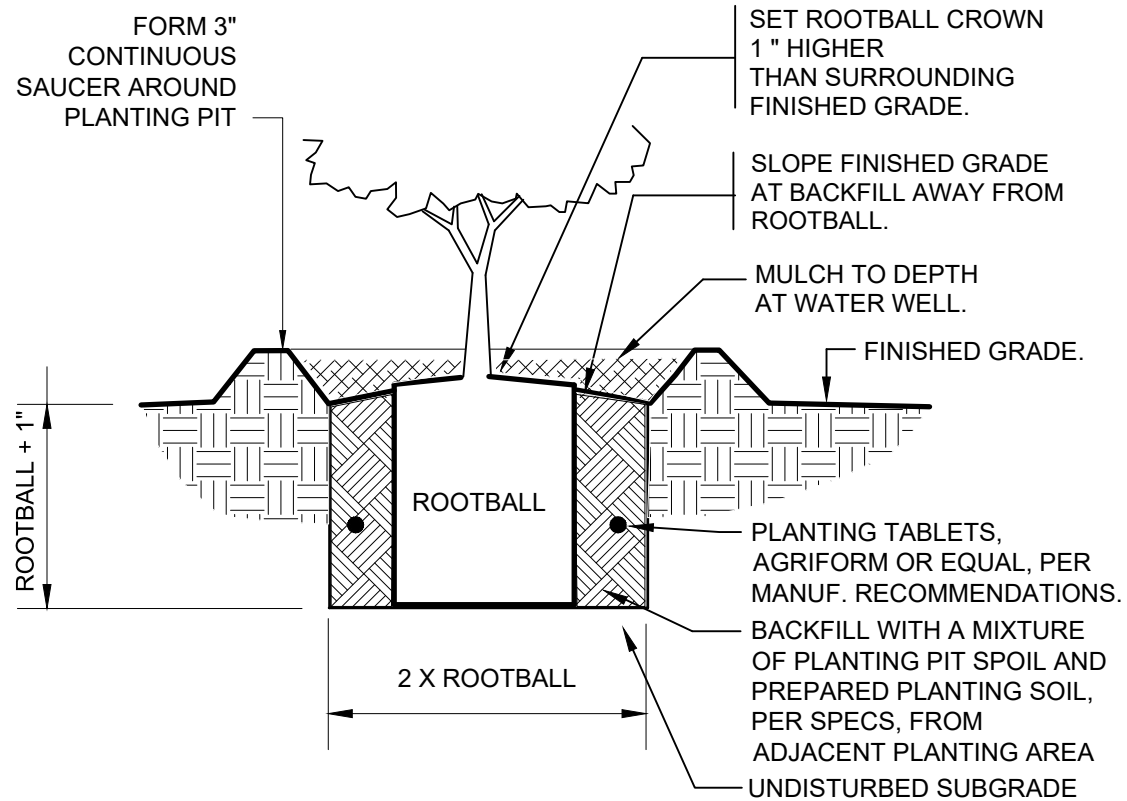


NOTE: TRENCH EDGE TO BE LOCATED BETWEEN ALL PLANTING BED AREAS AND ADJACENT TURF AREAS, UNLESS NOTED OTHERWISE.

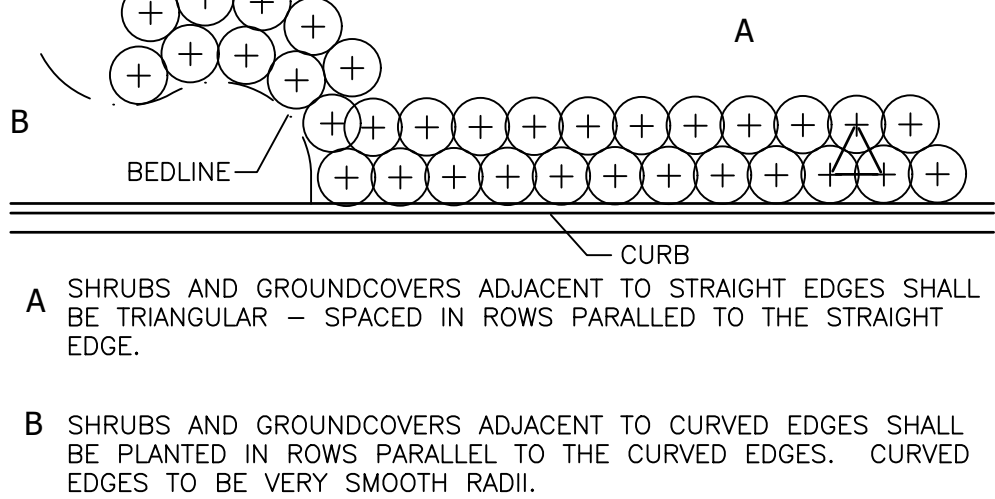
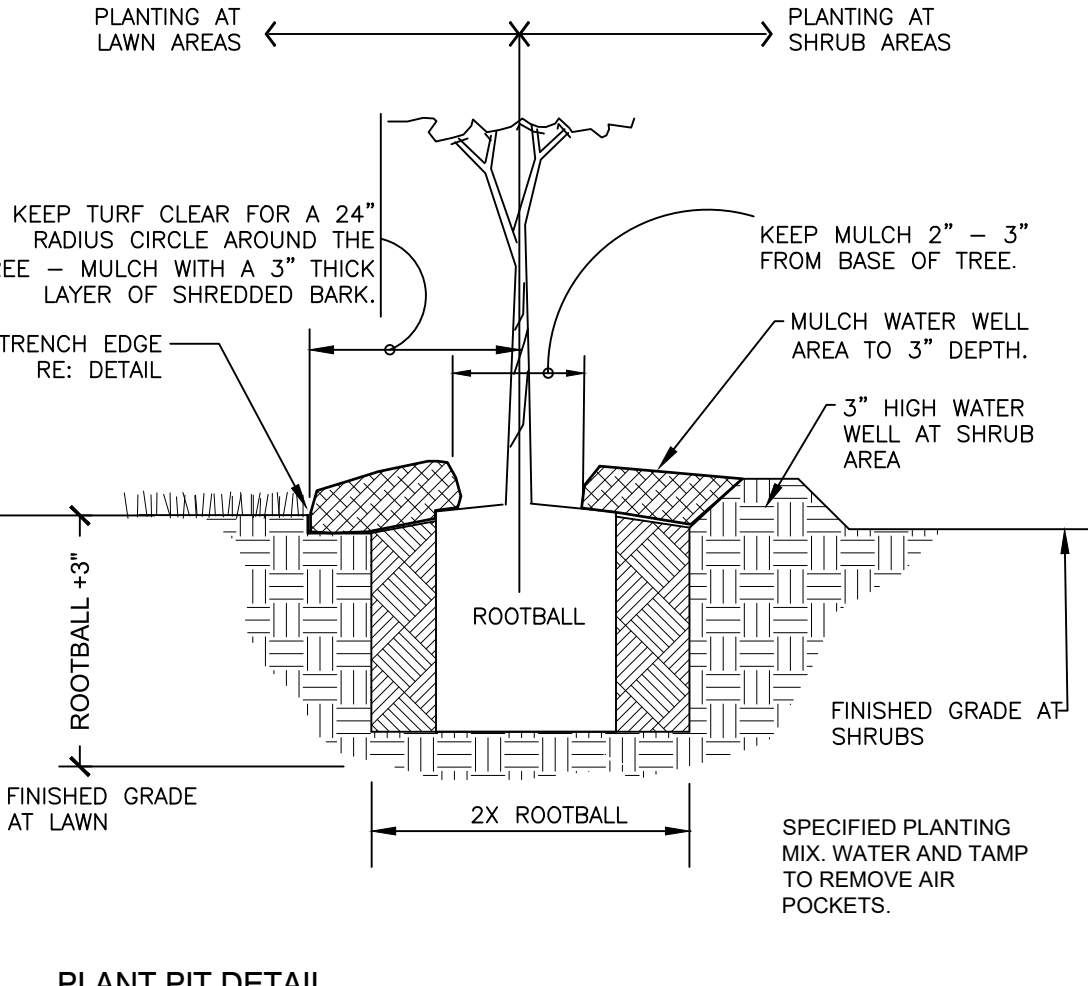
5 TRENCH EDGE

3" = 1'-0"

329413.23-02



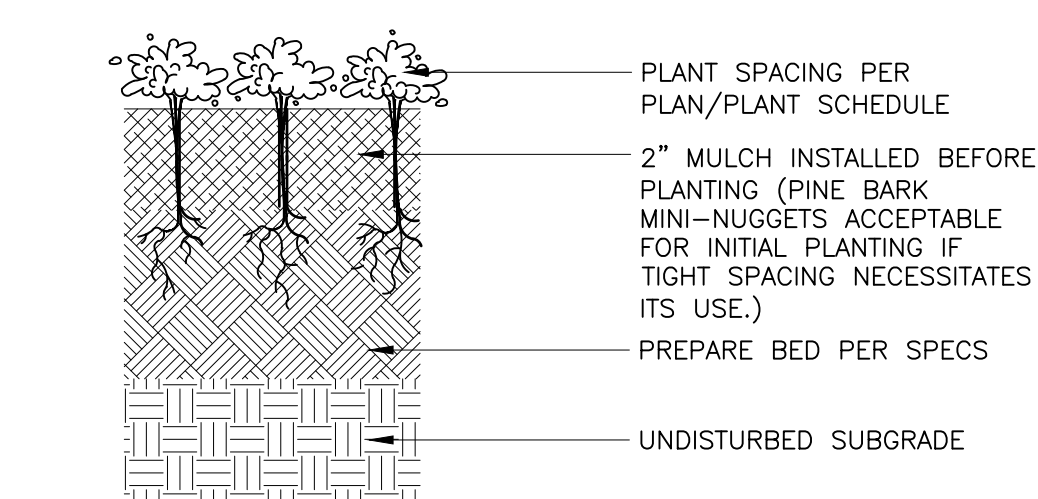
SET ROOTBALL CROWN 1 1/2" HIGHER THAN THE SURROUNDING FINISHED GRADE. SLOPE BACKFILL AWAY FROM ROOTBALL FOR POSITIVE DRAINAGE.



7 TYPICAL PLANT SPACING

NOT TO SCALE

329399-04



1 GROUNDCOVER PLANTING

3" = 1'-0"

329313-01

2 SHRUB PLANTING

1" = 1'-0"

329333.13-01

3 MULTI-TRUNK TREE STAKING

1/2" = 1'-0"

329343-01

4 TREE PLANTING - GUY STRAP

1" = 1'-0"

329343.26-02

INGENIUM ENTERPRISES, INC.
5995 PARKWAY NORTH BLVD, SUITE B
CUMMING, GEORGIA 30040
PHONE: (770) 437-8850
FBPE CERT. OF AUTHORITY #8370



Yulee

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SEAL		
ISSUE/BY	DATE	DESCRIPTION
	12.13.23	PERMIT SUBMITTAL
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	04.24.24	PERMIT RESUBMITTAL
	05.02.24	RESPONSE TO COMMENTS
	07.17.24	RESPONSE TO COMMENTS
	07.29.24	RESPONSE TO COMMENTS

PROJECT INFORMATION BLOCK	
JOB #:	230066
DATE:	11.16.23
DRAWN BY:	DC
CHECKED BY:	DC
INGENIUM PROJECT #	230066
SHEET TITLE	

LANDSCAPE PLANTING DETAILS

SHEET NUMBER

LP500

ISSUE FOR PERMIT



INGENIUM ENTERPRISES,
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FBPE CERT. OF AUTHORITY #8370



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PROJECT INFORMATION BLOCK	
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DATE:	11.16.23
DRAWN BY:	DCT
CHECKED BY:	DCT
INGENIUM PROJECT #	230066
SHEET TITLE	

**LANDSCAPE
PLANTING DETAILS**

SHEET NUMBER

LP501

ISSUE FOR PERMIT

- LDC Section 37.05 (B) – Plant material. All installed trees, shrubs and groundcovers shall conform to the standards for Florida Grade #1 or better according to the current edition of "Grades and Standards for Nursery plants" published by the Florida Department of Agriculture and Consumer Services, Division of Plant Industry.
- LDC Section 37.05 (B)(1) – All trees shall be planted in a minimum dimension of ten (10) feet. This minimum planting area must be free of all pavement and vehicle overhang in order to prevent possible tree damage.
- LDC Section 37.05 (B)(2) – Shrubs shall have a minimum height of eighteen (18) inches when planted. When planted as a hedge, the maximum spacing is 30 inches on center. All shrubs used for visual screening shall be of a plant species that is capable of reaching a height of four (4) feet within twenty-four (24) months under normal growing conditions. Shrubs used as accent ground cover and vines may vary in size depending on the type of plant material and the desired effect.
- LDC Section 37.05 (B)(3) – Groundcovers shall be planted in such manner as to present a finished appearance and complete coverage within one (1) year after planting.
- LDC Section 37.05 (B) – All trees planted shall be staked or guyed for a period of at least six (6) months in accordance with the adopted planting detail.
- LDC Section 37.05 (H)(4) – All planting areas shall be mulched with approximately three inches of organic mulch, such as pine bark or shredded hardwood chips.
- LDC Section 37.05 (K) – The property owner is responsible for the maintenance of all landscape areas required by this section. Maintenance includes irrigating, mowing, trimming, fertilizing and carrying out those activities necessary to keep the plant material in a healthy and growing condition, maintain visual clearance and allow passage of vehicles and pedestrians on public roads and non-exclusive easements.
- LDC Section 37.05 (K)(1) – Upon determination by the county that a required tree or plant is dead or severely damaged or diseased, the tree or plant shall be replaced by the owner with plant material meeting the requirements of this section.
- LDC Section 37.05 (K)(2) – All buffer areas required as part of a development plan, whether in common or private ownership, shall be the responsibility of that development's property owners' association. Where there is no property owners' association, such landscaped areas shall be the responsibility of the property owner.
- LDC Section 37.05 (K)(3) – Trees on developed properties may be pruned to maintain shape and promote their shade-giving qualities. They should be pruned to remove diseased or dying portions in areas where falling limbs could be a hazard to people or property. Lower limbs may be removed to provide clearance. In addition, trees located in association with vehicular use areas shall also be pruned to allow a seven-foot clearance from ground level to avoid potential for damage or injury to pedestrians and cleared to thirteen (13) above pavement level for vehicles. However, the excessive pruning or pollarding of trees into round balls of crown or branches resulting in an unnecessary reduction of shade is prohibited and may require supplemental plantings.

All pruning shall be done following the American National Standard for Tree Care Operations "Tree, Shrub and Other Woody Plant Maintenance - Standard Practices."

- LDC Section 37.05 (E)(1) – At the intersection of two (2) streets, all landscaping within that area defined by the Florida Department of Transportation sight triangle, as outlined in the FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System shall be installed and maintained below three (3) feet in height or above eight (8) feet in height.
- LDC Section 37.05 (E)(2) – When a driveway intersects a right-of-way, clear unobstructed cross visibility shall be provided within the site triangle formed by such intersection. The sight triangle shall be measured from the point of intersection, fifteen (15) feet along the access way and then fifteen (15) feet along the right-of-way, with the third side being a line connecting the two (2) points. Cross visibility within the sight triangle shall be unobstructed between the height of three (3) feet and eight (8) feet measured from the ground line. Trees and palms shall have their limbs and foliage trimmed in a manner that no limbs or foliage will extend in to the cross visibility area. To ensure proper visibility at the intersection of access ways with public rights-of-way, excluding properly trimmed trees as previously stated; only ground cover type plants shall be allowed within the sight triangle.
- LDC Section 37.05 (D) – The use of a wall or fence is permitted provided the wall or fence is located on the inner most boundary (behind the vegetation as viewed from outside the development) of the perimeter landscaping adjacent to rights-of-way/streets, required uncomplimentary land use buffer or other landscaped area.

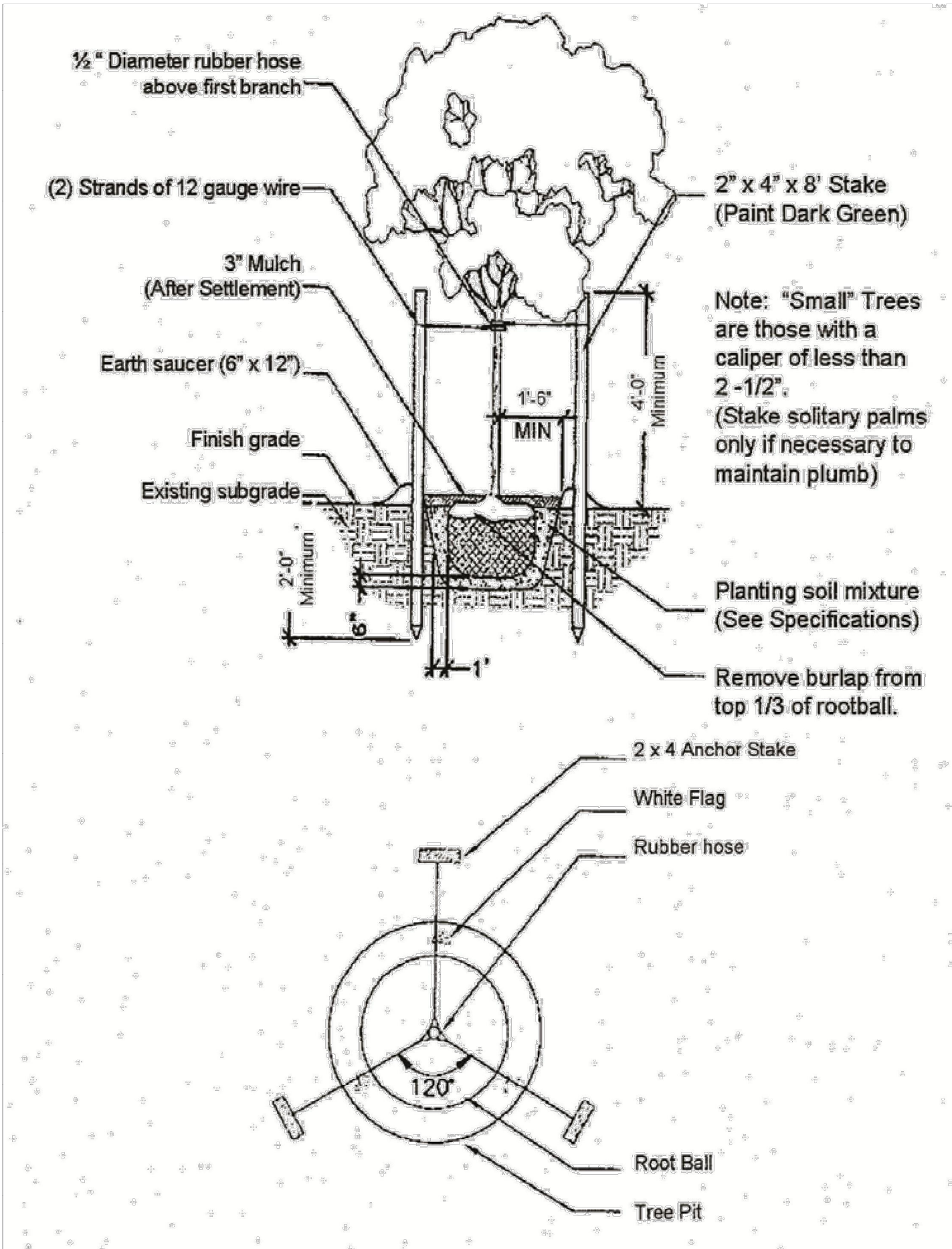


FIGURE 1: STANDARD PLANTING DETAIL

ISSUE/ BY	DATE	DESCRIPTION

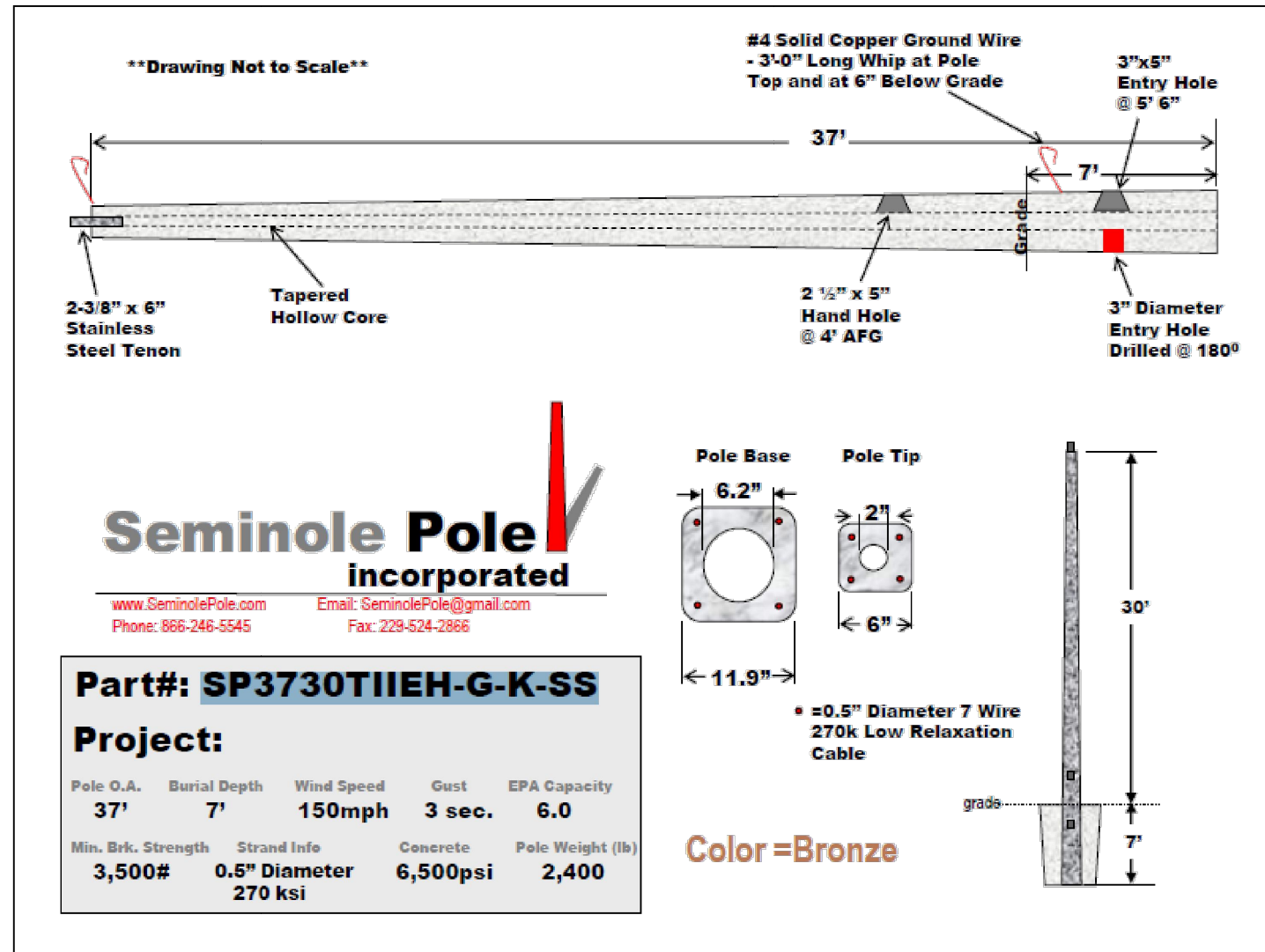
PROJECT INFORMATION BLOCK	
JOB #:	234028
DATE:	07-24-2024
DRAWN BY:	RR/DB/RV
CHECKED BY:	SN/LV

SHEET TITLE

PHOTOMETRIC SITE PLAN

SHEET NUMBER

E1.0



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING	+	3.3 fc	9.2 fc	0.9 fc	10.2 :1	3.7:1
ATM - 60 FT RADIUS AROUND DRIVE-UP ATM	◇	5.7 fc	22.3 fc	2.0 fc	11.2 :1	2.9:1
ATM 1 - 5 FT IN FRONT OF DRIVE-UP ATM	◇	-	15.1	N/A	N/A	N/A

Schedule											
Symbol	Label	QTY	Manufacturer	Model Number	Description	Lamp	Number Lamps	Lumens	LLF	Wattage	B.U.G. RATING
●○	SL-1	4	GE	EACLO11HA4F740ND_WHITE WITH ELS-EAC-ABL	FULL CUT-OFF 4000K LED, POLE MOUNTED AT 25'. PROVIDE HOUSE SHIELD	1-153w 4000K LED	1	19,000	0.9	153	B3-UO-G3
○●○	SL-2	1	GE	EACLO11CA4F740ND_WHITE	FULL CUT-OFF 4000K LED, DOUBLE FIXTURE POLE MOUNTED AT 25'	2-55w 4000K LED	1 EACH	7,500 EACH	0.9	110 TOTAL	B1-UO-G2
●○	SL-3	1	GE	EACLO11HA4F740ND_WHITE	FULL CUT-OFF 4000K LED, POLE MOUNTED AT 25'	1-153w 4000K LED	1	19,000	0.9	153	B3-UO-G3
●○	SL-4	3	GE	EACLO11A2AN740_WHITE WITH ELS-EAC-ABL	FULL CUT-OFF 4000K LED, POLE MOUNTED AT 15'. PROVIDE HOUSE SHIELD	1-21w 4000K LED	1	3,000	0.9	21	B1-UO-G1
●	L-21B	1	LUMARK	REFER TO SHEET E2.0 AND	120V EXTERIOR UP/DOWN SCONCE	INCLUDED	1	1,085	0.9	58	B1-UO-G1
●	L7	9	Amerlux	HDL-HP-R-NC-A17-T	4" ROUND 18W 3500K LED LENSED DOWNLIGHT - WET RATED	18w 3500K LED	1	600	0.9	18	-
NOTE: ALL SITE AND BUILDING LIGHT FIXTURES PROPOSED ON THIS PROJECT ARE DESIGNED AS FULL CUTOFF CLASSIFICATION WITH ZERO UP LIGHT COMPONENTS											

PHOTOMETRIC PLAN - OVERALL SITE

SCALE
1"=20'

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