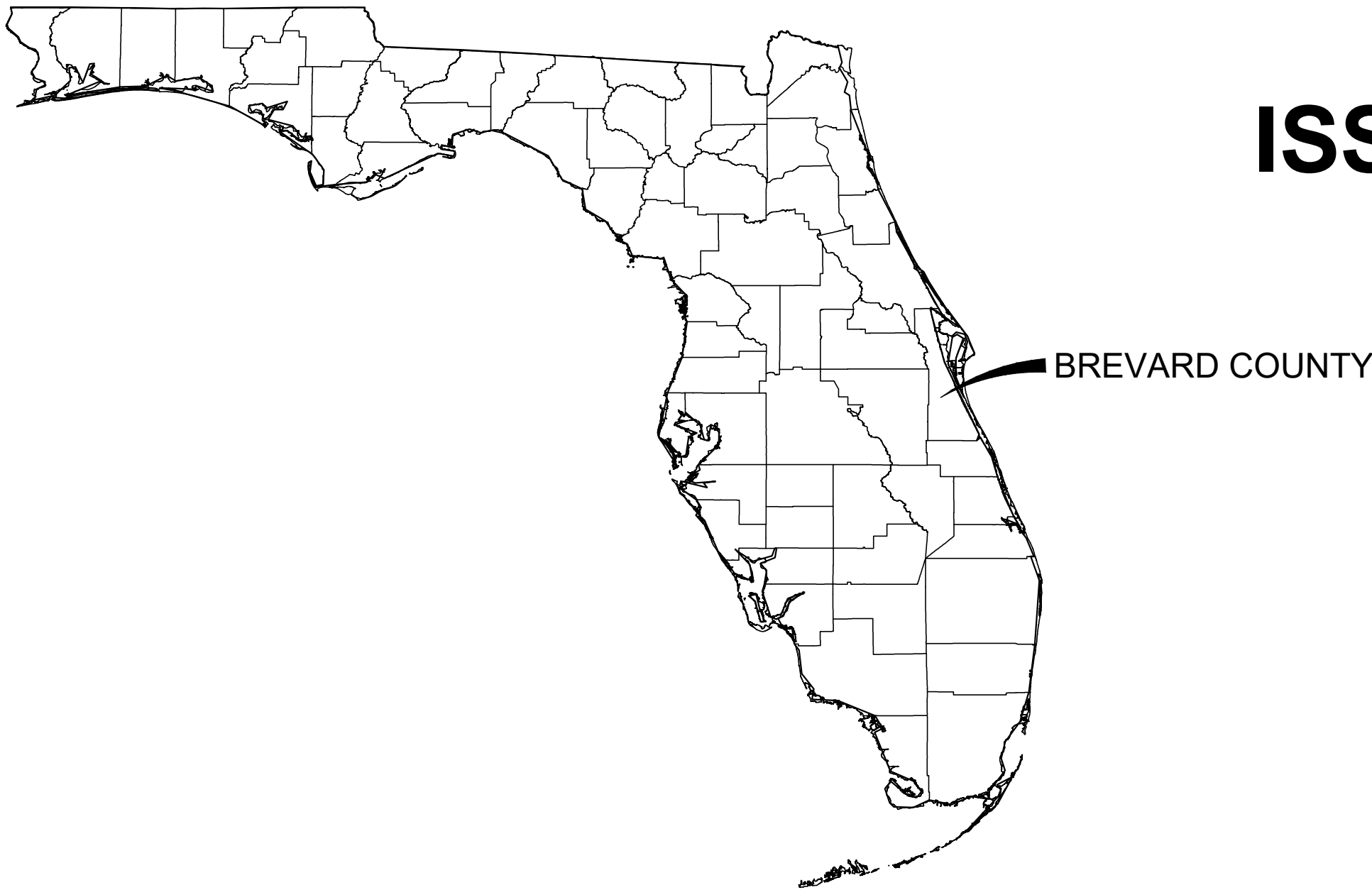


CITY OF COCOA BEACH
CONVAIR COVE STORMWATER LID IMPROVEMENTS
BID # CB21-004



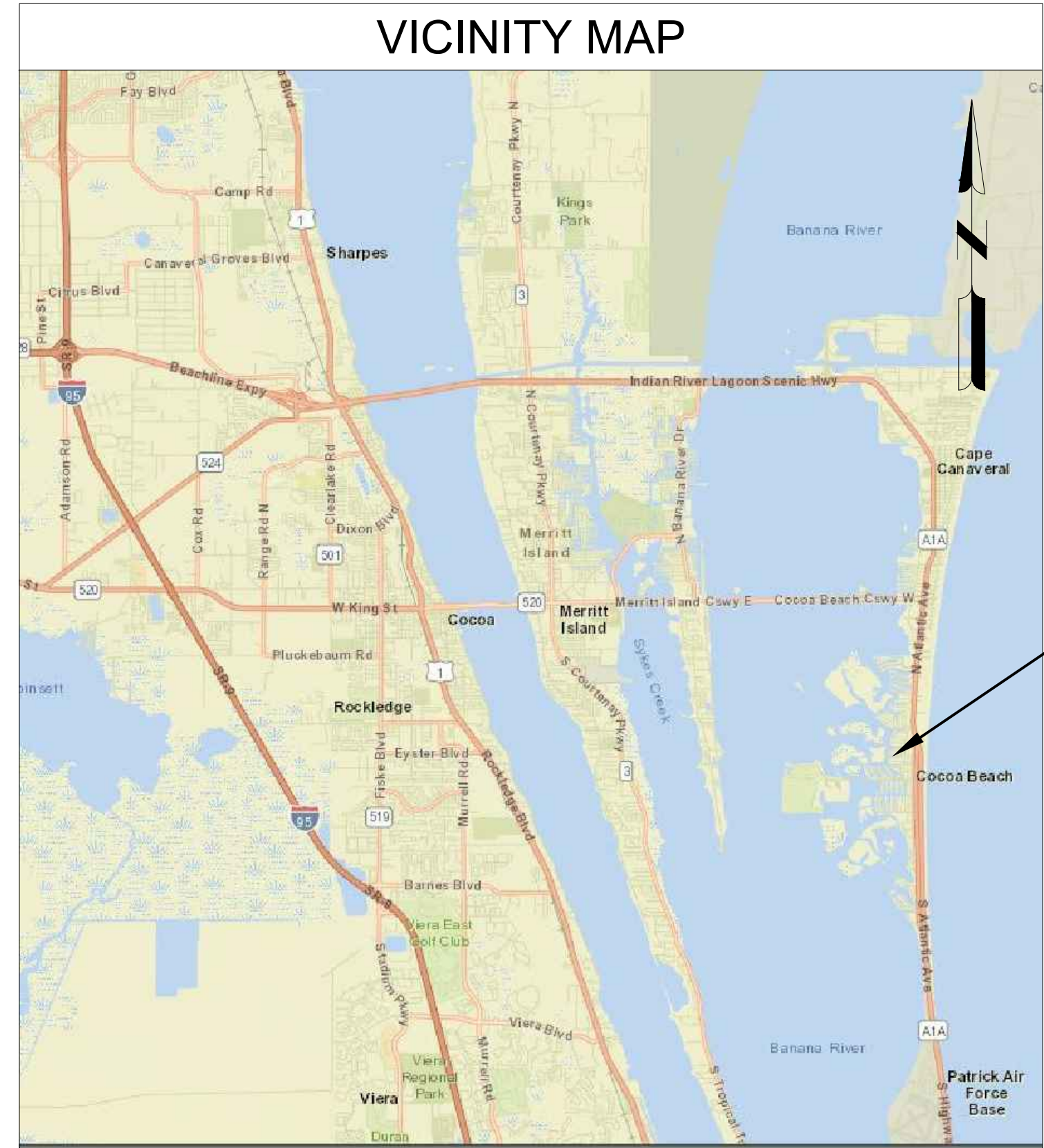
ISSUED FOR CONSTRUCTION
APRIL 2021

CITY OFFICIALS

BEN MALIK	MAYOR
JIM McKNIGHT	CITY MANAGER
COMMISSIONERS:	
ED MARTINEZ	SEAT 2
KAROLYN WOULAS	SEAT 3
SKIP WILLIAMS	SEAT 4
MIKE MILLER	SEAT 5

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L1	LANDSCAPE PLAN & DETAILS
L2	IRRIGATION PLAN & DETAILS
L3	TECHNICAL SPECS FOR LANDSCAPE AND IRRIGATION



PROJECT TEAM:

OWNER:

CITY OF COCOA BEACH
CONTACT: JESSICA BRUSO,
STORMWATER UTILITY MANAGER
1600 MINUTEMEN CAUSEWAY
COCOA BEACH, FL 32931
PHONE: (321) 868-3292
FAX: (321) 868-3379

CIVIL ENGINEER:

MEAD & HUNT, INC.
CONTACT: ANDREW GIANNINI, PE
PROJECT MANAGER
4401 EASTPORT PARKWAY
PORT ORANGE, FLORIDA 32127
PHONE: (386) 761-6810
FAX: (386) 761-3977

LANDSCAPE ARCHITECT

INDIAN RIVER GARDEN
CONTACT: KATHLEEN BURSON, ASLA
LANDSCAPE ARCHITECT
295 KNOX MCKRAE DRIVE
TITUSVILLE, FLORIDA 32780
PHONE: (321) 543-2574



4/28/21

This item has been digitally signed
and sealed by Andrew M. Giannini,
P.E. on the date adjacent to the seal.

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not considered signed and sealed
and the signature must be verified on
any electronic copies.

ENGINEER OF RECORD: ANDREW M. GIANNINI, P.E. 46601



Mead & Hunt
Mead and Hunt, Inc.
4401 Eastport Parkway
Port Orange, FL 32127
phone: 386-761-6810
meadhunt.com
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CITY OF COCOA BEACH
CONVAIR COVE STORMWATER LID
IMPROVEMENTS
MCNABB PARKWAY
COCOA BEACH, FL 32931

ISSUED	
12/07/18	30% DESIGN
01/22/19	60% DESIGN
06/14/19	90% DESIGN
09/26/19	100% DESIGN
11/24/20	BID SET
4/28/21	CONSTR PLANS

FOR CONSTRUCTION

M&H NO.:	4505000-172380.01
DATE:	NOVEMBER 2020
DESIGNED BY:	SGD
DRAWN BY:	ADC
CHECKED BY:	AMG
DO NOT SCALE DRAWINGS	

SHEET CONTENTS
COVER SHEET

SHEET NO.
G-001

\\CORP-MEADHUNT.COM\SHARED\FOLDERS\ENR\4505000\172380.01\TECH\CAD\DRAWINGS\G-002 GENERAL NOTES AND SUMMARY OF QUANTITIES.DWG 11/24/2020 11:51:16 AM

SUMMARY OF QUANTITIES					
ITEM	DESCRIPTION	UNIT	QUANTITY		NOTES
			PLAN	FINAL	
1	Mobilization/Demobilization	LS	1		
2	Pre-Construction Video	LS	1		
3	Field Locate and Expose Existing Utilities	1	LS		
4	Erosion and Sediment Control	LS	1		
5	Maintenance of Traffic	LS	1		
6	Demolition/Clearing and Grubbing	LS	1		
7	Subgrade	SY	1,500		
8	Concrete Curb				
	a) Environment Curb	LF	1,200		
	b) FDOT Type "D"	LF	50		
9	Permeable Pavers incl rock and geotextile	SY	1,200		
10	Modular Buried Stormwater Storage Units	SY	270		includes geotextile
11	BAM Material				
	a) Mineral-Based (Bold-n-Gold)	CF	130		
	b) Wood Pulp	CF	130		
12	Gabion Basket with 50% Clean Fill	EA	14		
13	Excavate and Grading Ponds	LS	1		
14	Rip Rap incl geotextile fabric	CY	10		
15	Sampling Port	EA	10		
16	Discharge Flume including skimmer	EA	1		
17	Traffic Barricade	EA	2		
18	Unsuitable Material Excavation	CY	10		
19	Reconstruct Sewer Service	EA	2		
20	Landscaping and Irrigation	LS	1		
21	Layout/As-Builts	LS	1		

POLLUTION CONTROL NOTES:

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

- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM WITH LOCAL CITY/COUNTY AND WATER MANAGEMENT DISTRICT SPECIFICATIONS, SUBJECT TO AUTHORIZED AND APPROVED VARIANCES, WAIVERS AND/OR CONDITIONS OF SITE PERMITS.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN, CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
- ALL AREAS AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PROVIDE TREE PROTECTION BARRIERS TO MEET THE REQUIREMENTS OF LOCAL SPECIFICATIONS.
- THE CONTRACTOR SHALL SELECTIVELY CLEAR ONLY THE AREAS REQUIRED FOR CONSTRUCTION AND STABILIZE ANY POTENTIAL EROSION AREAS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL KEEP ANY AND ALL SAND, SILT OR OTHER DEBRIS FROM MOVING OFF-SITE. USE AND MAINTAIN SILT FENCE JUST INSIDE OF PROPERTY LINE.
- CONTRACTOR SHALL BLOCK INTRUSION OF SAND, SILT OR OTHER DEBRIS INTO ANY DRAINAGE OR SANITARY SEWER STRUCTURE OR PIPING ON OR ADJACENT TO SITE.
- ALL CLEARED AREAS FOR IMPROVEMENT AND/OR CONSTRUCTION SHALL BE WATERED TO PREVENT WIND EROSION.
- UNLESS OTHERWISE SPECIFIED, SILT FENCES MUST BE USED IN LIEU OF HAY BARRIERS.
- ADDITIONAL POSTS AND RAILS MAY BE NECESSARY TO SECURE AND SUPPORT BARRIERS.
- ADDITIONAL BARRIER LENGTHS MAY BE REQUIRED BY THE COUNTY ENGINEER OR BY REGULATORY AGENCIES.
- FILTER FABRIC MUST BE INSTALLED UNDER ALL INLET GRATES, AT ALL TIMES WHEN INLETS ARE NOT PROTECTED BY SILT FENCE OR UNTIL THE LIMEROCK BASE IS FINISHED AND PRIMED.
- THE CONTRACTOR IS REQUIRED TO HAVE THIS PLAN ALONG WITH A COPY OF THE NPDES NOTICE OF INTENT (N.O.I.) POSTED IN A VISIBLE LOCATION ON THE CONSTRUCTION SITE AT ALL TIMES.
- "CONTRACTOR" IS REQUIRED BY NPDES TO KEEP A LOG ON SITE FOR THE SOIL EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE PLAN. THE LOG SHALL CONTAIN DATES FOR: INSTALLATION OF CONTROL MEASURES, MAJOR SITE CONSTRUCTION ACTIVITIES, INSPECTION ON AT LEAST A WEEKLY BASIS AND INSPECTION AFTER ANY RAINFALL EVENT THAT IS 1/2" OR GREATER.
- THE CONTRACTOR IS REQUIRED TO SUBMIT A NOTICE OF TERMINATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION UPON THE COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL RETAIN ALL RECORDS FOR A PERIOD OF THREE YEARS FOLLOWING THE NOTICE OF TERMINATION.
- NON STORMWATER DISCHARGES SUCH AS FIRE HYDRANT FLUSHING, ETC. SHALL BE DISCHARGED TO EXISTING UNDERGROUND STORMWATER FACILITY OR ON SITE RETENTION POND.
- ANY POTENTIALLY HAZARDOUS CHEMICALS BROUGHT ONTO JOB SITE WILL BE LIMITED AND KEPT IN ORIGINAL CONTAINER WITH MSS LABEL.
- NO SILT SHALL BE TRACKED ONTO PUBLIC ROADWAYS. ANY SILT DEPOSITED ON PUBLIC ROADWAYS SHALL BE REMOVED BY END OF THE WORK DAY.

SEDIMENT AND EROSION CONTROL NOTES:

EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH MINIMUM STANDARDS ADAPTED IN THE STORMWATER MANAGEMENT CRITERIA ADOPTED BY THE CITY AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT. SOME OF THESE STANDARDS ARE AS FOLLOWS:

- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
- ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ONTO ADJACENT PROPERTIES.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORMLY MATURE ENOUGH TO SURVIVE AND INHIBIT EROSION.
- SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE SEDIMENT BASIN SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE THE ANTICIPATED SEDIMENT LOADING FROM THE LAND-DISTURBING ACTIVITY. THE OUTFALL DEVICE OR SYSTEM DESIGN SHALL TAKE INTO ACCOUNT THE TOTAL DRAINAGE AREA FLOWING THROUGH THE DISTURBED AREA TO BE SERVED BY THE BASIN.
- AFTER ANY RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH OR CHANNEL. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- BEFORE TEMPORARY OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNELLING SHALL BE IN- STALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
- WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT. CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA DURING CONSTRUCTION.
- THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
- PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT LEAVING THE PROPERTY. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
- WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISION SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION.

GENERAL NOTES:

- BENCH MARK DATUM USED FOR PROJECT IS N.A.V.D. 1988.
- EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.
- THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES AND STRUCTURES THAT MAY BE ENCOUNTERED IN THE WORK AREA AND TO AVOID CONFLICTS WITH EXISTING FACILITIES. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
- THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR INACCURACIES OR OMISSIONS IN THE LOCATION, ELEVATION AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER EXISTING FEATURES.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY ON ANY CONFLICTS ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO AND REPLACEMENT OF EXISTING UTILITIES. REPLACEMENT SHALL BE TO THE COMPLETE SATISFACTION OF THE ENGINEER.
- ALL UTILITY OUTAGES SHALL BE COORDINATED WITH THE INDIVIDUAL OWNER'S REPRESENTATIVE OR DEPARTMENT SUPERVISOR AND APPROVED BY THE THEM, PRIOR TO OUTAGE.
- THE CONTRACTOR SHALL PRESERVE FROM DAMAGE ALL PROPERTY ALONG THE LINE OF WORK, OR THAT IS IN THE VICINITY THEREOF, OR IS IN ANY WAY AFFECTED BY THE WORK; THE REMOVAL OF OR DESTRUCTION OF WHICH IS NOT CALLED FOR BY THE PLANS. WHEREVER SUCH PROPERTY IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES OF THE CONTRACTOR, IT SHALL BE IMMEDIATELY RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE OWNER.
- RIGHT-OF-WAY RESTORATION IS TO BE CONDUCTED CONCURRENTLY WITH CONSTRUCTION AS DIRECTED BY THE ENGINEERS. THE ENGINEER SHALL HAVE AUTHORITY TO SUSPEND CONSTRUCTION WORK WHEN RESTORATION IS NOT BEING ADEQUATELY PERFORMED. ALL DISTURBED AREAS ARE TO BE RESTORED TO PRIOR EXISTING OR BETTER CONDITION. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SODDED TO MATCH EXISTING SPECIES AND VARIETY OF GRASS. IF APPLICABLE, PIPE INSTALLATION UNIT PRICE SHALL INCLUDE RESTORATION AND SODDING TO EQUAL OR BETTER CONDITION.
- THE CONTRACTOR SHALL CONDUCT HIS WORK TO INSURE THE LEAST POSSIBLE OBSTRUCTION TO TRAFFIC AND INCONVENIENCE TO THE PUBLIC AND RESIDENTS IN THE VICINITY OF THE WORK AND TO INSURE THE PROTECTION OF PERSONS AND PROPERTY. NO ROAD TO BE CLOSED TO THE PUBLIC EXCEPT WITH THE APPROVAL OF THE ENGINEER AND THE CITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE A REVIEW OF THE SITE TO DETERMINE EXISTING CONDITIONS AND ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA UNLESS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAKE PROVISIONS TO MAINTAIN DUST CONTROL ON A DAILY BASIS BY MEANS ACCEPTABLE TO THE CITY.
- ANY PUBLIC LAND CORNER OR BENCH MARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE.
- EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN PLANS. ALL PROPOSED DRIVEWAYS HAVE BEEN SHOWN IN THE PLANS.

- EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION.

CONTROL, ABATEMENT OR EROSION, SEDIMENTATION, AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

- ALL EROSION CONTROL MEASURES SHALL BE REMOVED AFTER FINAL CITY APPROVAL.

- THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

- ALL MILLED AREAS WILL BE COVERED WITH TYPE SP ASPHALT THE SAME WORK PERIOD THAT MILLING OCCURS.

- ADEQUATE EXCAVATION, SHEATHING, SHORING AND BRACING SHALL BE PROVIDED, AS NECESSARY, AND SHALL CONFORM TO CONSTRUCTION REQUIREMENTS AS SET FORTH BY THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT THEIR EXPENSE TO PROVIDE THE PROJECT ENGINEER WITH "AS-BUILT" DRAWINGS OF CONSTRUCTION. DRAWINGS SHALL CONTAIN SPECIFIC LOCATIONS OF ALL NEWLY CONSTRUCTED AND RELOCATED UTILITIES.

- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS LISTED BELOW THROUGH SUNSHINE ONE CALL OF FLORIDA, INC. (1-800-432-4770) TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

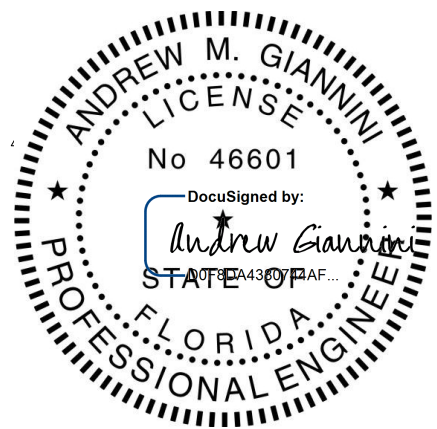
- ALL SIDEWALKS AND PEDESTRIAN ACCESS RAMPS ARE TO BE CONSTRUCTED IN COMPLIANCE WITH "ADA" STANDARDS.

- UTILITY RELOCATIONS:
 - ALL EXISTING UTILITY POLES TO REMAIN.

- NO WORK TO OCCUR OUTSIDE OF CITY/FDOT RIGHT-OF-WAYS. IF WORK OUTSIDE THE CITY RIGHT-OF-WAY IS NECESSARY, A TEMPORARY CONSTRUCTION EASEMENT WILL BE SECURED PRIOR TO WORK.

- ALL EXISTING SIGNAGE TO BE REMOVED AND REPLACED UNLESS OTHERWISE NOTED.

- CONTRACTOR SHALL PROVIDE PRE-POST VIDEO OF ENTIRE PROJECT WITH OFF-SITE PROPERTIES AND PROJECT EXTENTS INCLUDED, IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.



This item has been digitally signed and sealed by Andrew M. Giannini, P.E. on the date adjacent to the seal.

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UTILITY INFORMATION PROVIDED TO OR COLLECTED BY MEAD & HUNT DURING DESIGN										
UTILITY TYPE	UTILITY COMPANY	CONTACT	PHONE	E-MAIL	PRELIMINARY PLANS PROVIDED TO UTILITY (DATE)	INFORMATION QUALITY LEVEL AND DATE RECEIVED				FINAL PLANS PROVIDED TO UTILITY (DATE)
						LEVEL A/4	LEVEL B/4	LEVEL C/4	LEVEL D/4	
WATER	CITY OF COCOA	KATHERINE ENNIS	(321) 433-8722	KENNIS@COCOAFI.ORG	4/3/19			4/4/19		
WASTEWATER	CITY OF COCOA BEACH	BRAD KALSOW	(321) 433-8799	BKALSOW@CITYOFCOAOBEACH.COM	4/3/19			4/4/19		
RECLAIMED WATER	CITY OF COCOA BEACH	BRAD KALSOW	(321) 433-8799	BKALSOW@CITYOFCOAOBEACH.COM	4/3/19					
ELECTRIC DISTRIBUTION	FPL	SUE WILLIAMS	(321) 455-6125	SUE.WILLIAMS@FPL.COM	4/3/19					
ELECTRIC TRANSMISSION	FPL	TRICIA D'ANNUNZIO	(561) 904-3562	PATRICIA.DANNUNZIO@FPL.COM	4/3/19			4/4/19		
PHONE	AT&T	BRYAN COUGHLIN	(321) 723-8040	BC1173@ATT.COM	4/3/19					
TV CABLE	SPECTRUM - BHN	KELLEY BALCAVAGE	(321) 524-3300	KELLEY.BALCAVAGE@CHARTER.COM	4/3/19					
GAS	NEXT ERA ENERGY - FLORIDA CITY GAS	RON MULLER	(321) 638-3424	RONALD.MULLER@NEXTERAENERGY.COM	4/3/19			7/8/19		
F.O. CABLE	CENTURY LINK	MICHAEL NUNEZ	(720) 888-0916	MICHAEL.NUNEZ@CENTURYLINK.COM	4/3/19					
STORMWATER	CITY OF COCOA BEACH	RYAN CARLUCCI	(321) 868-3717	RYAN.CARLUCCI@CITYOFCOAOBEACH.COM						

Mead & Hunt

Mead and Hunt, Inc.
4401 Eastport Parkway
Port Orange, FL 32127
phone: 386-761-6810
meadhunt.com
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CITY OF COCOA BEACH
CONVAIR COVE STORMWATER LID
IMPROVEMENTS
MCNABB PARKWAY
COCOA BEACH, FL 32931

ISSUED	12/07/18	30% DESIGN
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	11/24/20	BID SET

FOR CONSTRUCTION

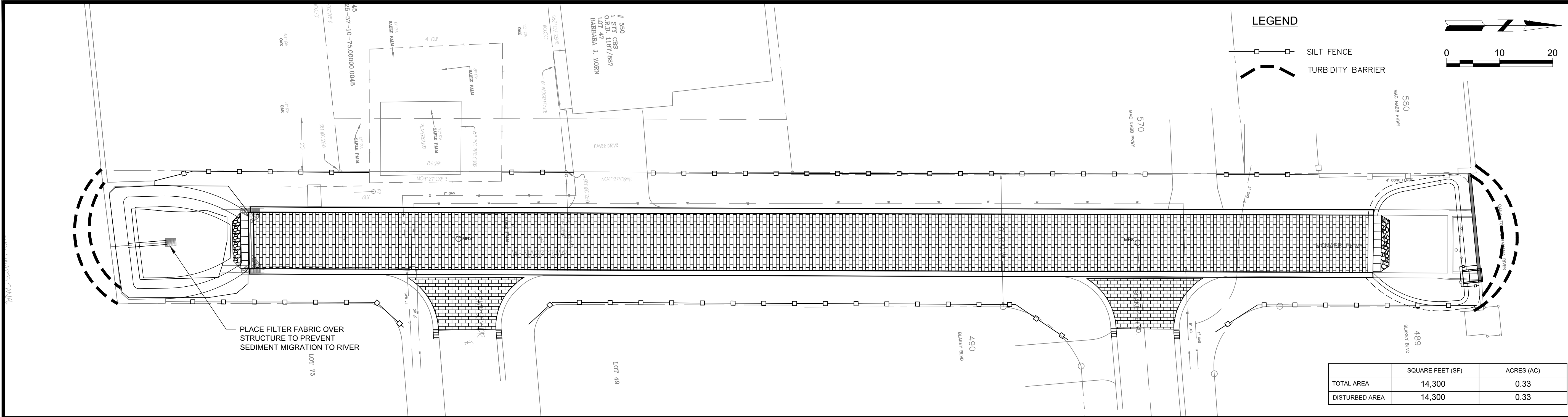
M&H NO.: 4505000-172380.01
DATE: NOVEMBER 2020
DESIGNED BY: SGD
DRAWN BY: ADC
CHECKED BY: AMG
DO NOT SCALE DRAWINGS

SHEET CONTENTS
GENERAL NOTES AND SUMMARY OF QUANTITIES

SHEET NO.

G-002

\\CORP-MEADHUNT.COM\SHARED\FOLDERS\ENR\45050001\72380.01\TECH\CAD\DRAWINGS\C-021 EROSION & SEDIMENT CONTROL-PLAN.DWG 11/24/2020 11:51:35 AM

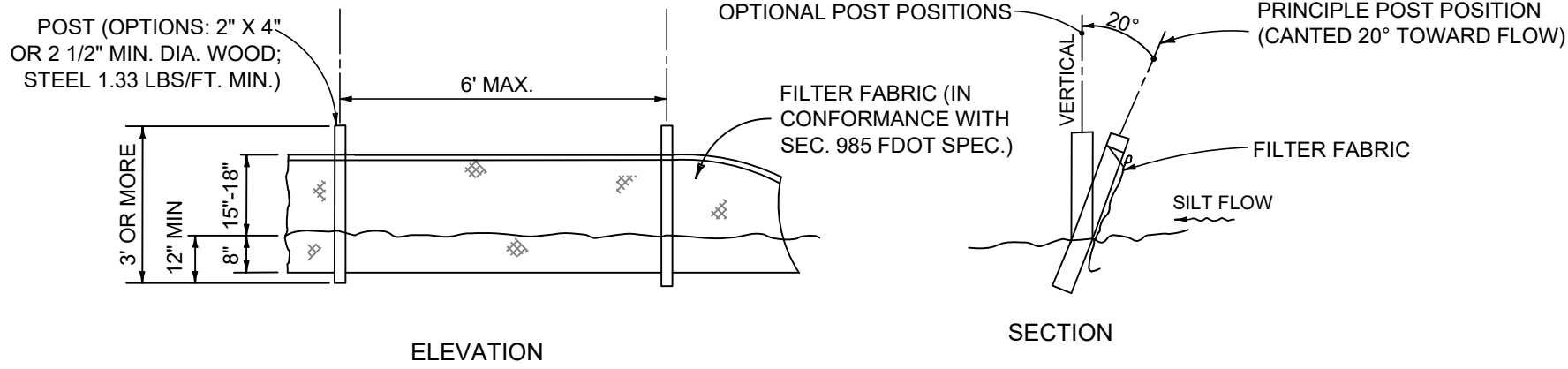


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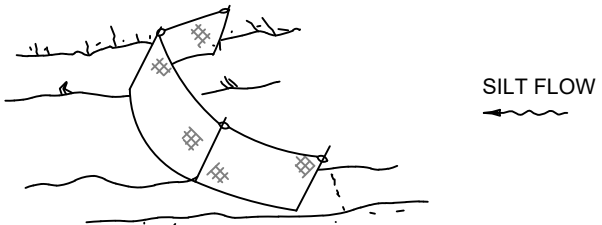
1. INSTALLATION OF EROSION CONTROL DEVICES.
2. DEMOLITION AND LAWFUL DISPOSAL OF DEBRIS.
3. INSTALLATION OF PROPOSED IMPROVEMENTS.
4. SITE STABILIZATION AND RESTORATION.
5. REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

NOTES:

1. CONTRACTOR SHALL SUBMIT A DESCRIPTION OF THE PROPOSED SOIL TRACKING PREVENTION PLAN FOR THE ENGINEER'S APPROVAL.
2. CONTRACTOR SHALL REMOVE ANY SOIL TRACKED ONTO EXISTING SITE OR PUBLIC ROADS DAILY.

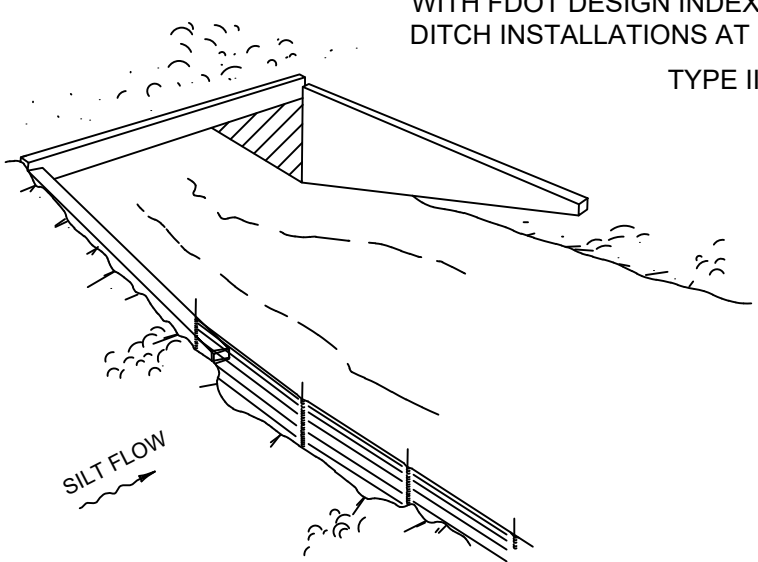


TYPE III SILT FENCE



NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH FDOT DESIGN INDEX NO. 102, CHART I, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3.

TYPE III SILT FENCE

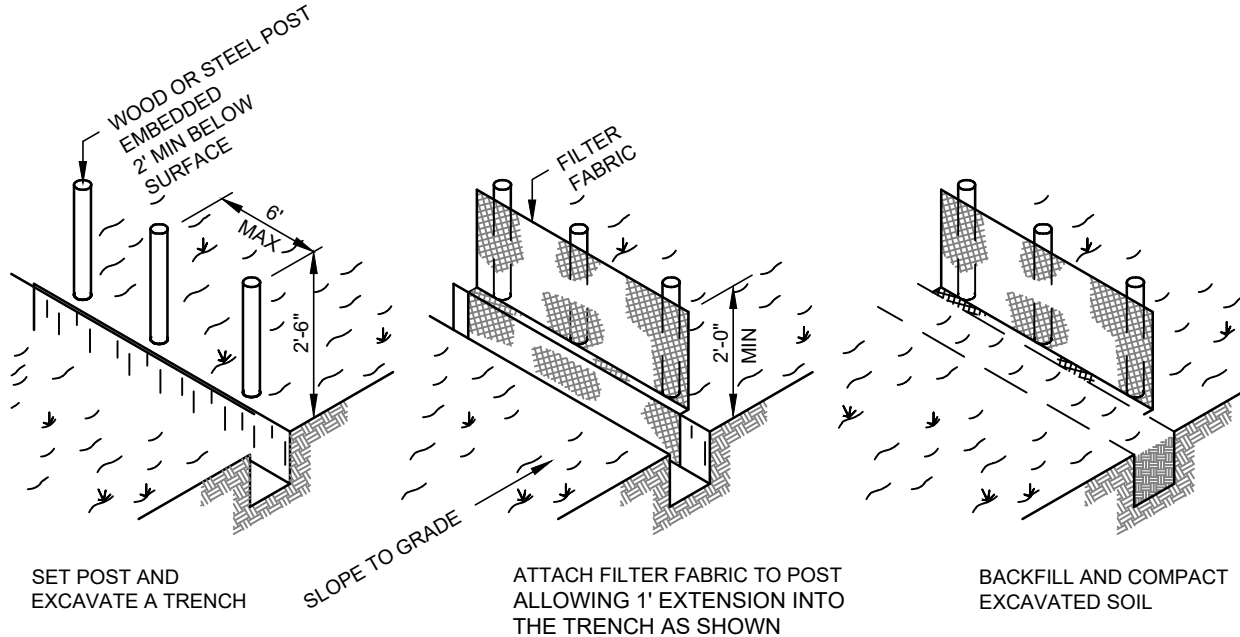


TYPE III SILT FENCE

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

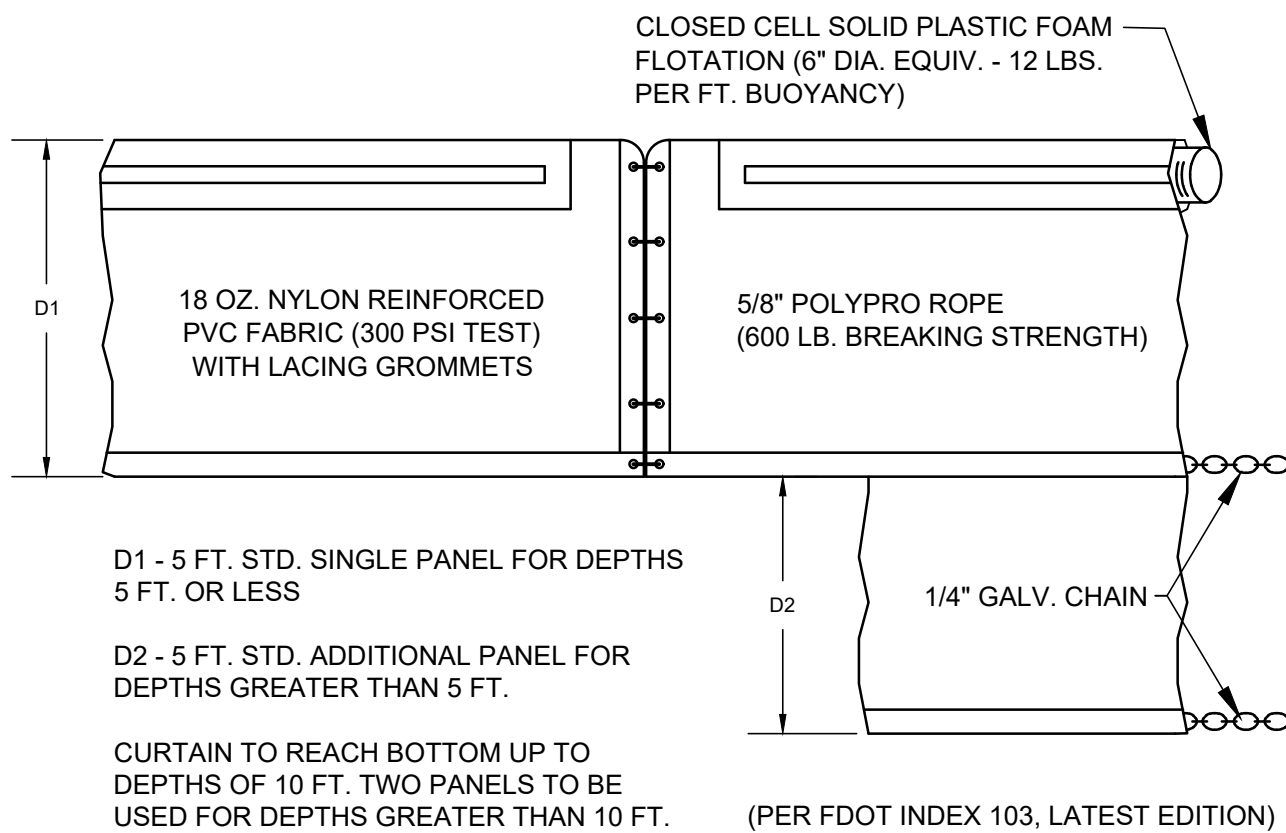
EROSION CONTROL - SILT FENCE
NTS



NOTES:

1. MATERIALS, CONSTRUCTION METHODS AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DESIGN STANDARDS CURRENT EDITION.
2. CONTRACTOR SHALL PROVIDE SILT FENCES AND INLET PROTECTION BMP'S AT ALL STORM WATER DISCHARGE POINTS FOR EROSION CONTROL AND SEDIMENT CONTROL DURING CONSTRUCTION.
3. CONTRACTOR SHALL ROUGH GRADE STORM WATER SWALES AND RETENTION AREAS PRIOR TO CONSTRUCTION OF SITE IMPROVEMENTS.
4. CONTRACTOR SHALL MEET ALL PERMIT CONDITIONS AS ESTABLISHED BY ALL APPLICABLE AGENCIES, INCLUDING BUT NOT LIMITED TO CITY/COUNTY, FDOT, AND THE SJRWMD.

SILT FENCE TURBIDITY BARRIER
NTS



FLOATING TURBIDITY BARRIER
NTS

CONTRACTOR(S) AND SUBCONTRACTOR(S) THAT IMPLEMENT ANY PART OF THE EROSION/POLLUTION CONTROL MEASURES REQUIRED BY THE NPDES PERMIT SHALL SIGN BELOW:

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER."

NAME	TITLE	COMPANY NAME & PHONE NUMBER	DATE

STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM

INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER.

PROJECT NAME: _____

FDEP NPDES STORMWATER IDENTIFICATIONS NUMBER: FLORIDA _____

LOCATION	RAIN DATA	TYPE OF CONTROL	DATE INSTALLED	CURRENT CONDITION / CORRECTIVE ACTION

THE CONTRACTOR IS ADVISED TO MONITOR LONG RANGE WEATHER FORECASTS. IN THE EVENT OF RAIN EVENTS RESULTING IN HIGH FLOWS DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE AGAINST UPSTREAM FLOODING. THIS MAY RESULT IN INUNDATION OF UNFINISHED WORK IN ORDER TO PASS STORMWATER FLOWS.

CONDITION CODE:
G = GOOD M = MARGINAL NEEDS MAINTENANCE OR REPLACEMENT SOON
P = POOR, NEEDS IMMEDIATE MAINTENANCE OR REPLACEMENT C = NEEDS TO BE CLEANED
O = OTHER

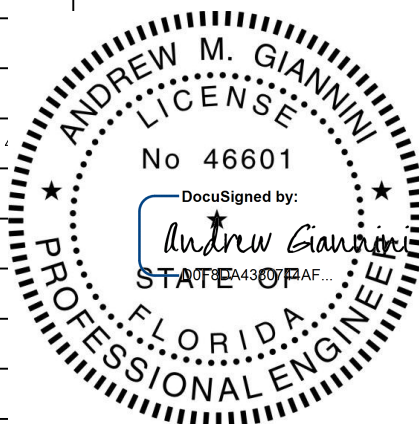
CONTROL TYPE CODES

1. SILT FENCE	13. RETENTION POND	25. HAY BALES
2. EARTH DIKES	14. CONSTRUCTION ENTRANCE STABILIZATION	26. GEOTEXTILE
3. STRUCTURAL DIVERSION	15. PERIMETER DITCH	27. RIP-RAP
4. SWALE	16. CURB AND GUTTER	28. TREE PROTECTION
5. SEDIMENT TRAP	17. PAVED ROAD SURFACE	29. DETENTION POND
6. CHECK DAM	18. ROCK OUTLET PROTECTION	30. RETENTION POND
7. SUBSURFACE DRAIN	19. REINFORCED SOIL RETAINING SYSTEM	31. WASTE DISPOSAL/HOUSEKEEPING
8. PIPE SLOPE DRAIN	20. GABION	32. DAM
9. LEVEL SPREADERS	21. SEDIMENT BASIN	33. SAND BAG
10. STORM DRAIN INLET PROTECTION	22. TEMPORARY SEED / SOD	34. OTHER
11. VEGETATIVE BUFFER STRIP	23. PERMANENT SEED / SOD	
12. VEGETATIVE PRESERVATION AREA	24. MULCH	

INSPECTIONS INFORMATION:

NAME _____ (SIGNED & PRINTED) DATE _____

GOVERNING STANDARDS AND SPECIFICATIONS:
"FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL", LATEST EDITION.



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Mead & Hunt
Mead and Hunt, Inc.
4401 Eastport Parkway
Port Orange, FL 32127
phone: 386-761-6810
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**CITY OF COCOA BEACH
CONVAIR COVE STORMWATER LID
IMPROVEMENTS
MCNABB PARKWAY
COCOA BEACH, FL 32931**

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01/22/19 60% DESIGN
06/14/19 90% DESIGN
09/26/19 100% DESIGN
11/24/20 BID SET

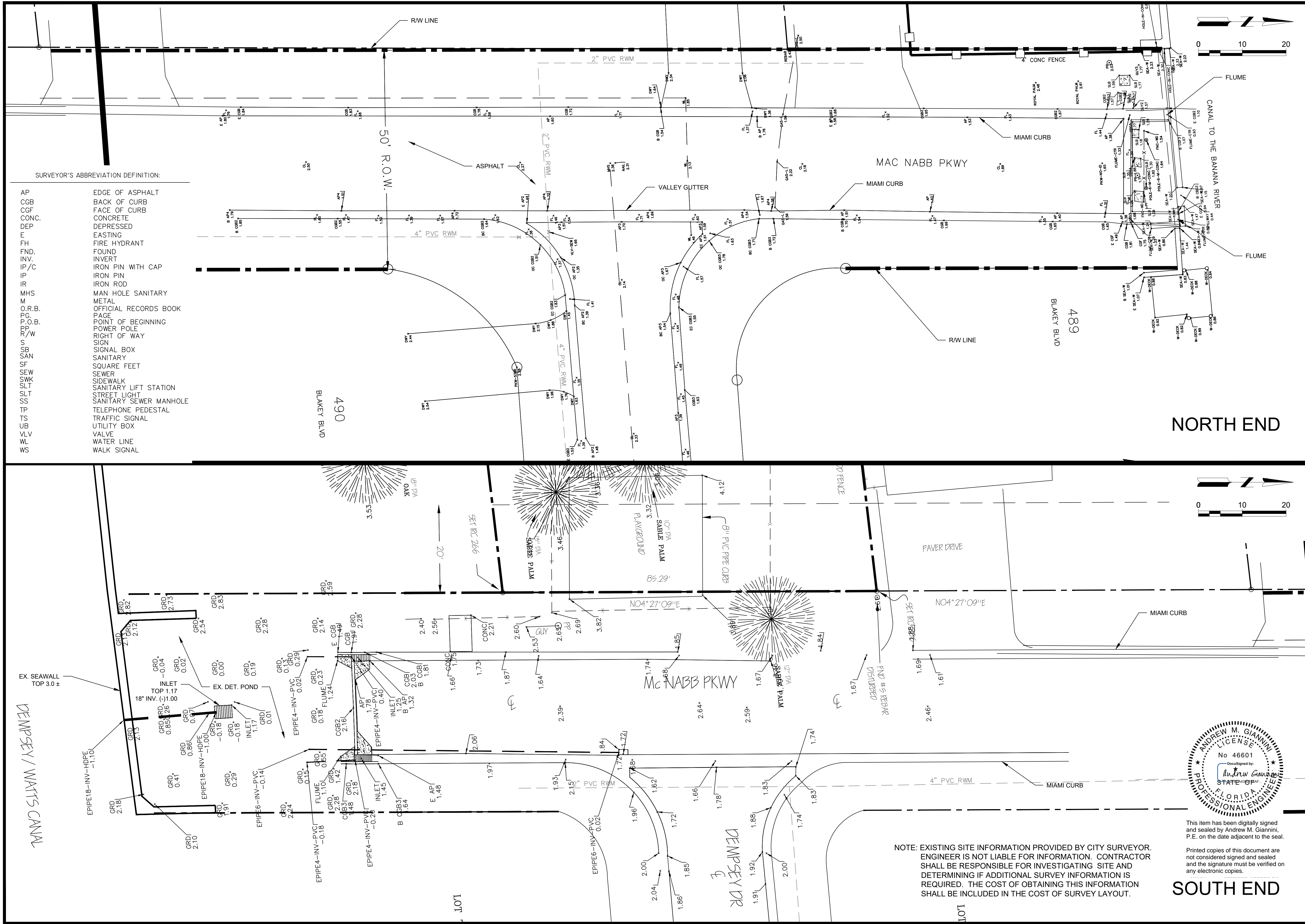
FOR CONSTRUCTION

M&H NO.: 4505000-172380.01
DATE: NOVEMBER 2020
DESIGNED BY: SGD
DRAWN BY: ADC
CHECKED BY: AMG
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SHEET CONTENTS
EROSION & SEDIMENT CONTROL PLAN

SHEET NO.

C-021



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CITY OF COCOA BEACH CONVAIR COVE STORMWATER IDI IMPROVEMENTS

MENABB PARKWAY
COCOA BEACH, FL 32931

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SHEET CONTENTS

EXISTING SITE SURVEY

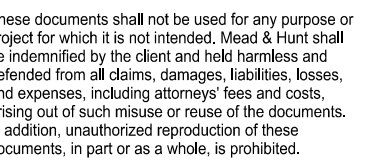
SHEET NO.

NOTE: EXISTING SITE INFORMATION PROVIDED BY CITY SURVEYOR. ENGINEER IS NOT LIABLE FOR INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INVESTIGATING SITE AND DETERMINING IF ADDITIONAL SURVEY INFORMATION IS REQUIRED. THE COST OF OBTAINING THIS INFORMATION SHALL BE INCLUDED IN THE COST OF SURVEY LAYOUT.

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ANDREW M. GIANNINI
LICENSE
No 46601
DO NOT SCALE DRAWINGS
FLORIDA
PROFESSIONAL ENGINEER

C-041



ISSUED

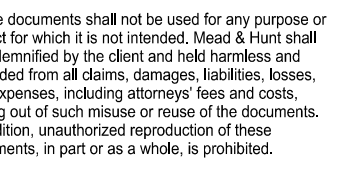
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SHEET NO.

C-051



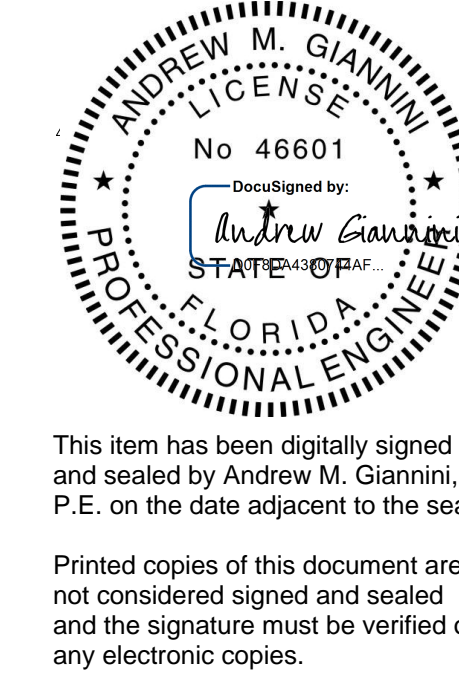


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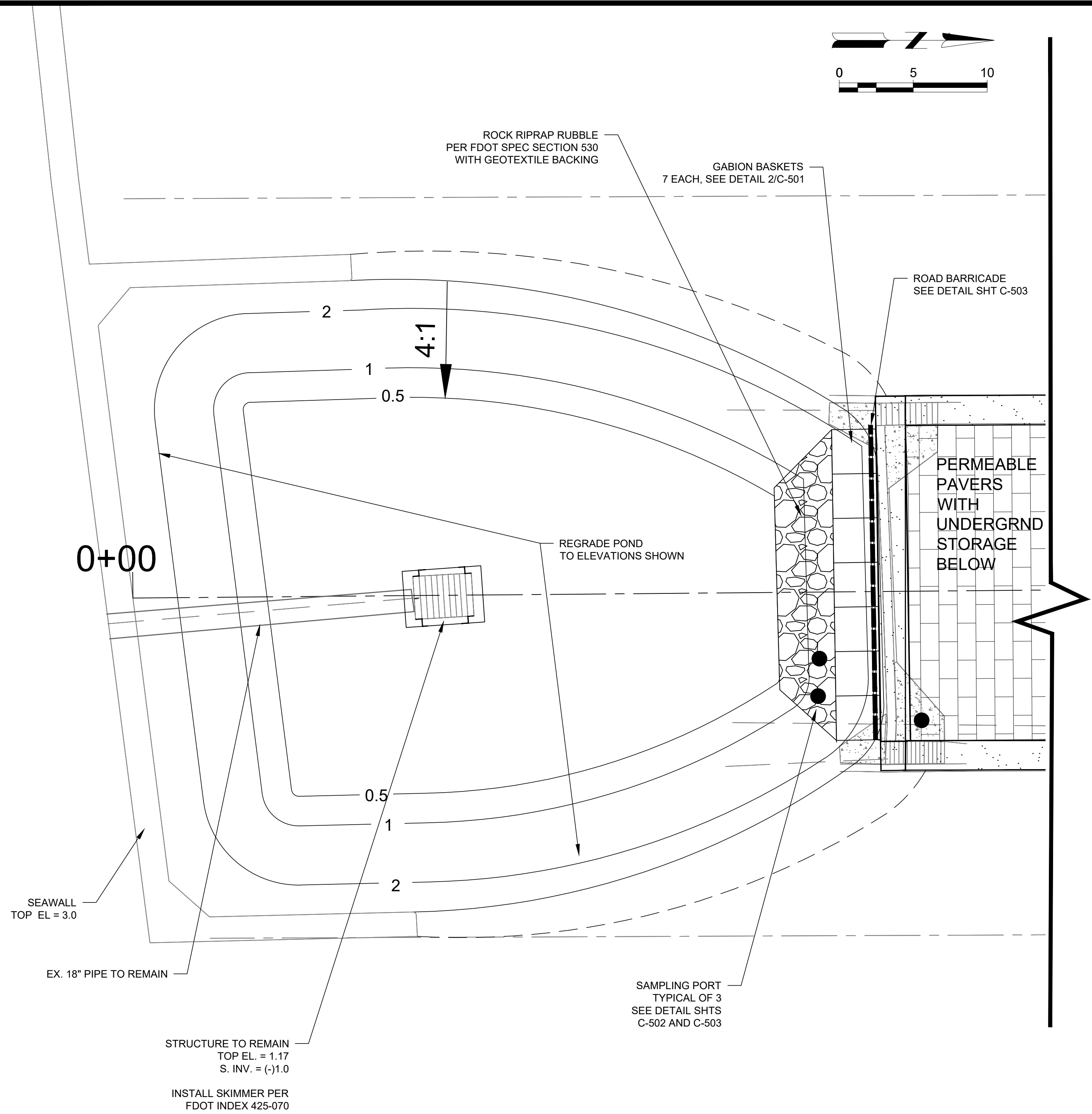
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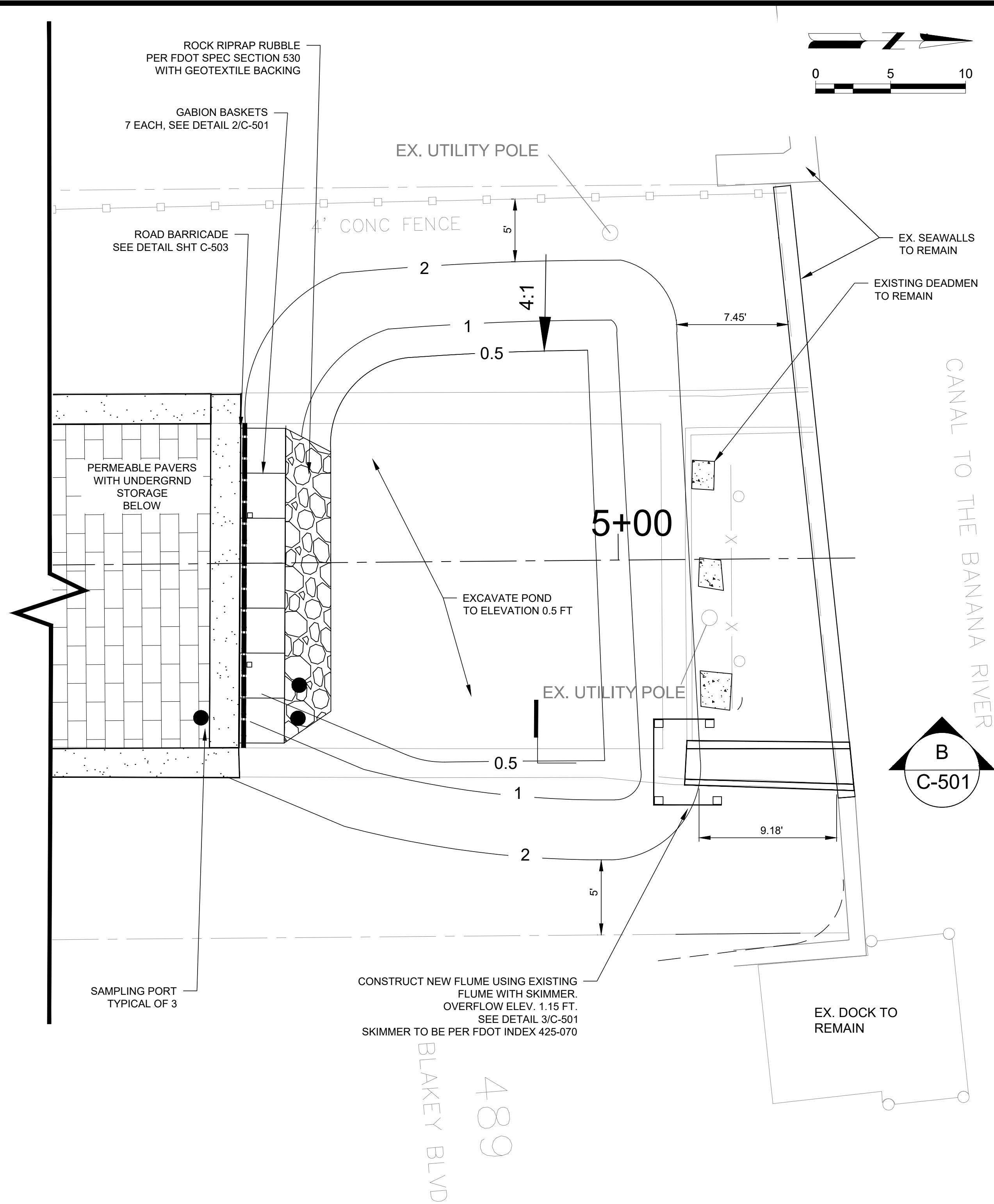
NOTE: CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES FOR POTENTIAL CONFLICTS BEFORE INSTALLATION.



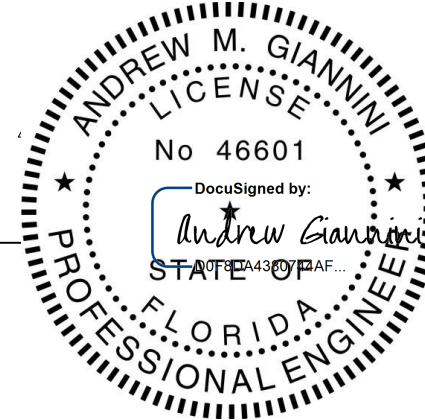
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11/24/2020 11:52:21 AM



SOUTH DETENTION POND PLAN



NORTH DETENTION POND PLAN



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MCNABB PARKWAY
COCOA BEACH, FL 32931

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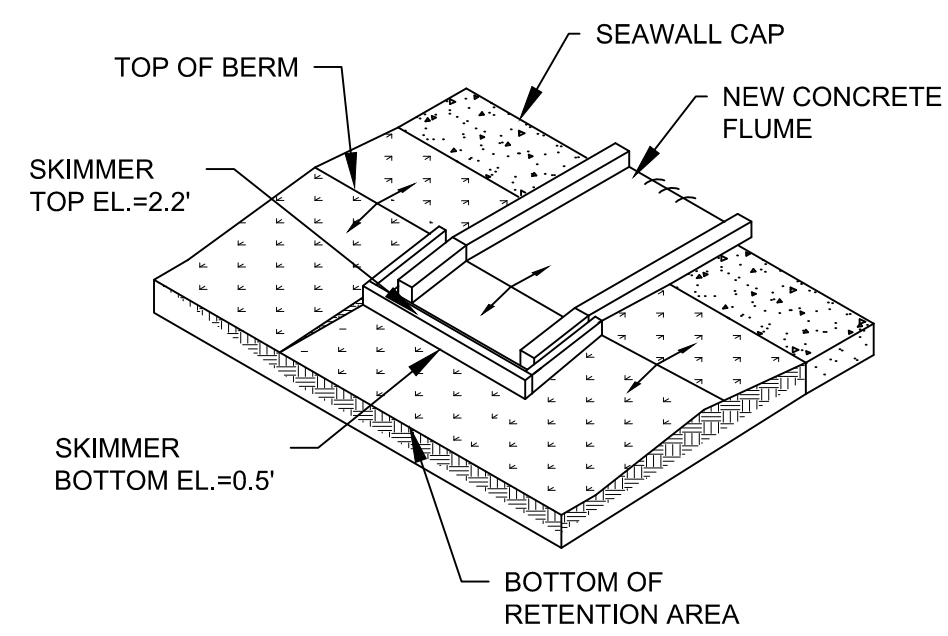
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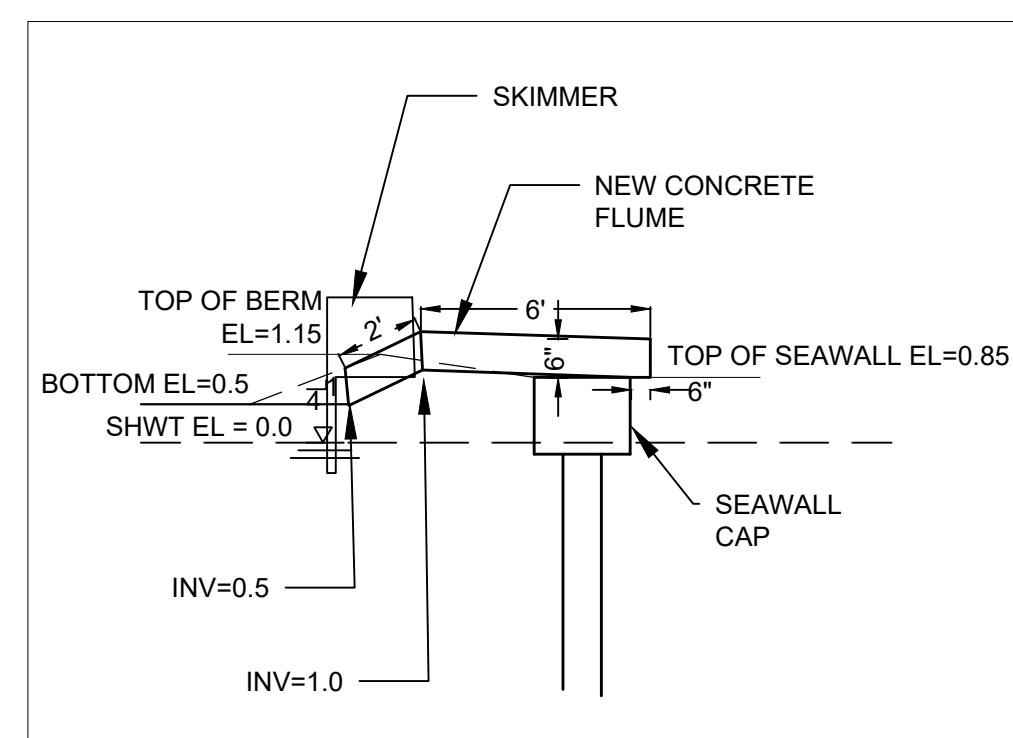
SHEET CONTENTS
NORTH AND SOUTH
POND PLANS

SHEET NO.

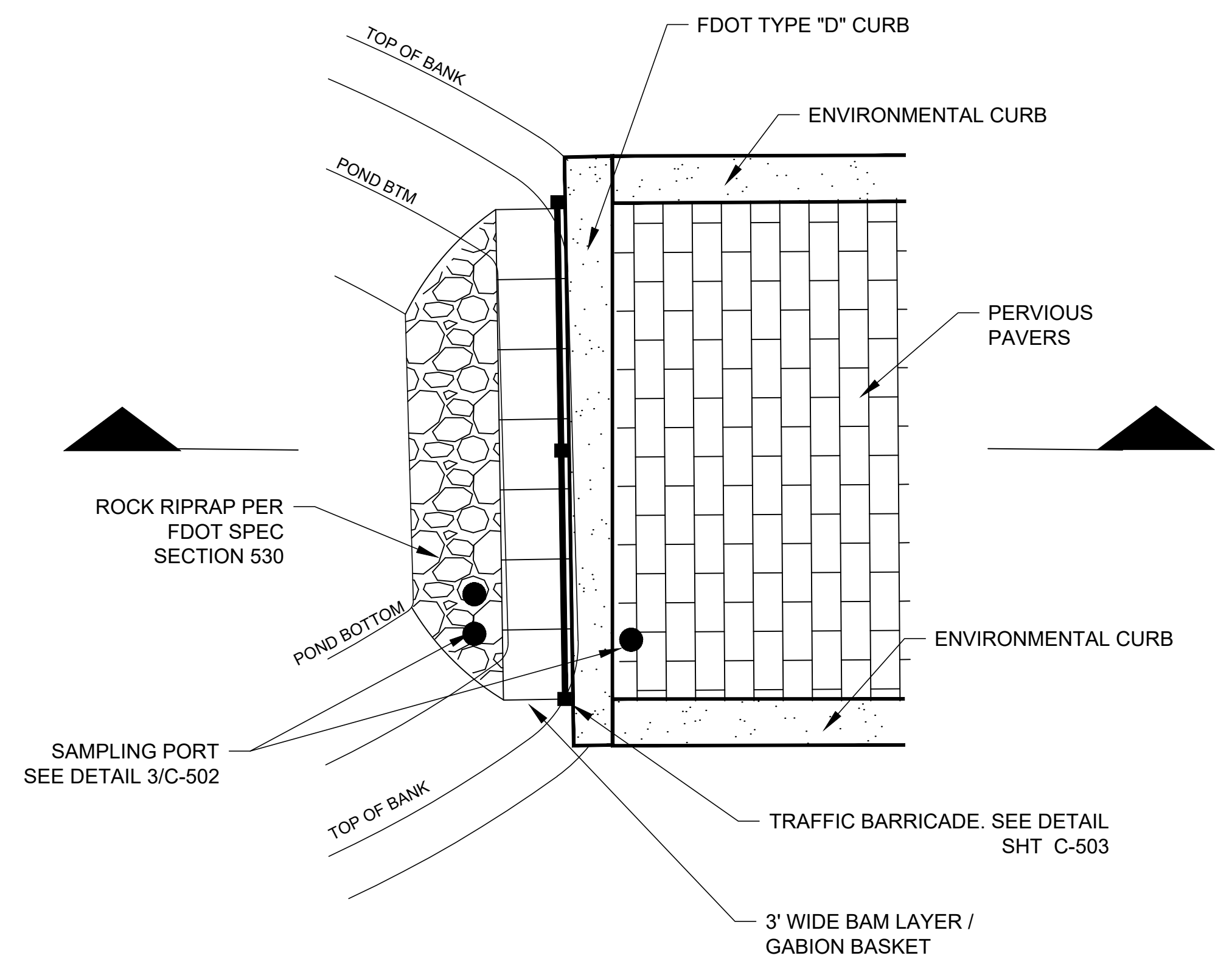
C-202



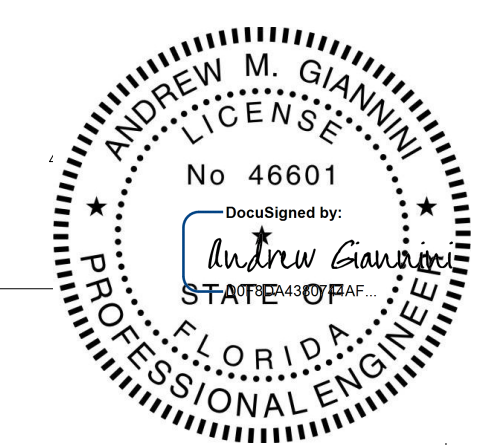
ISOMETRIC VIEW



SECTION B

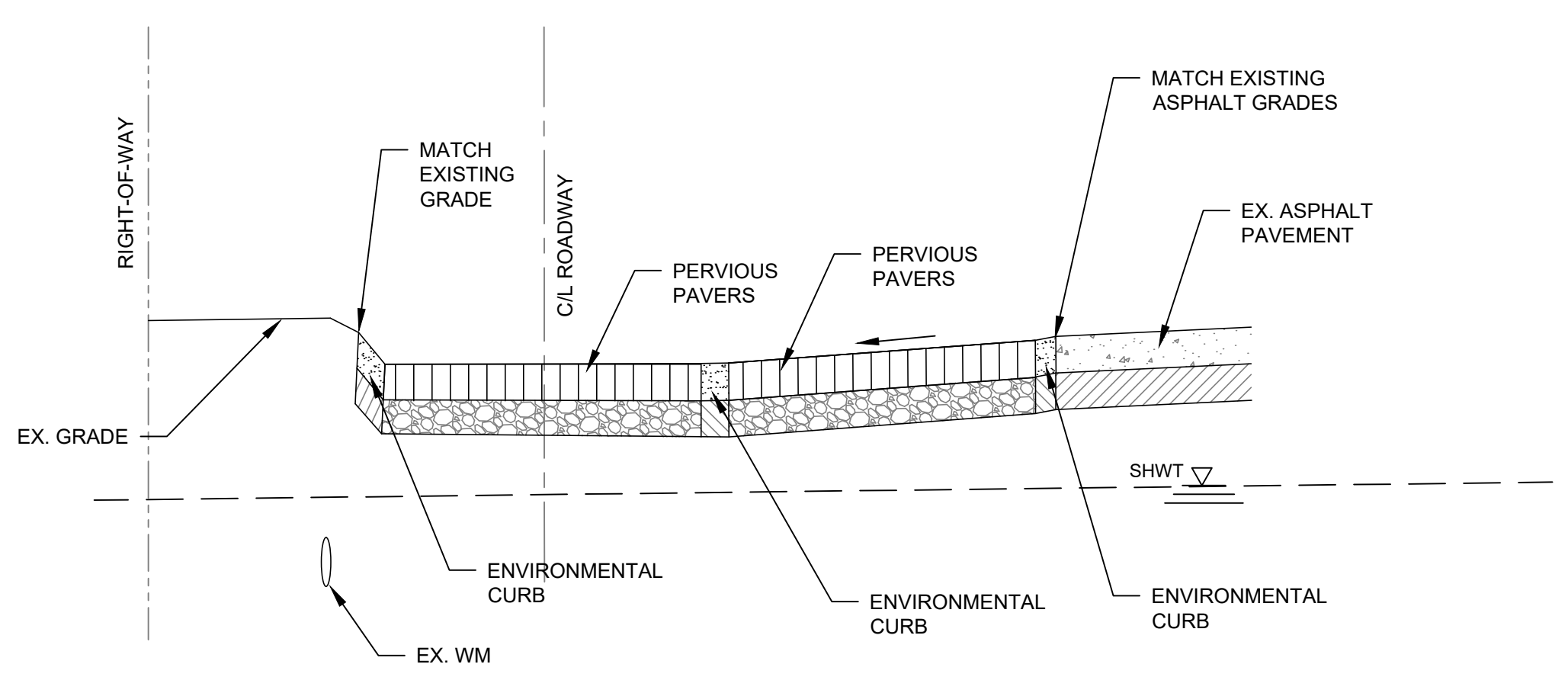


1 PLAN VIEW
BAM NUTRIENT REDUCTION WALL
NTS

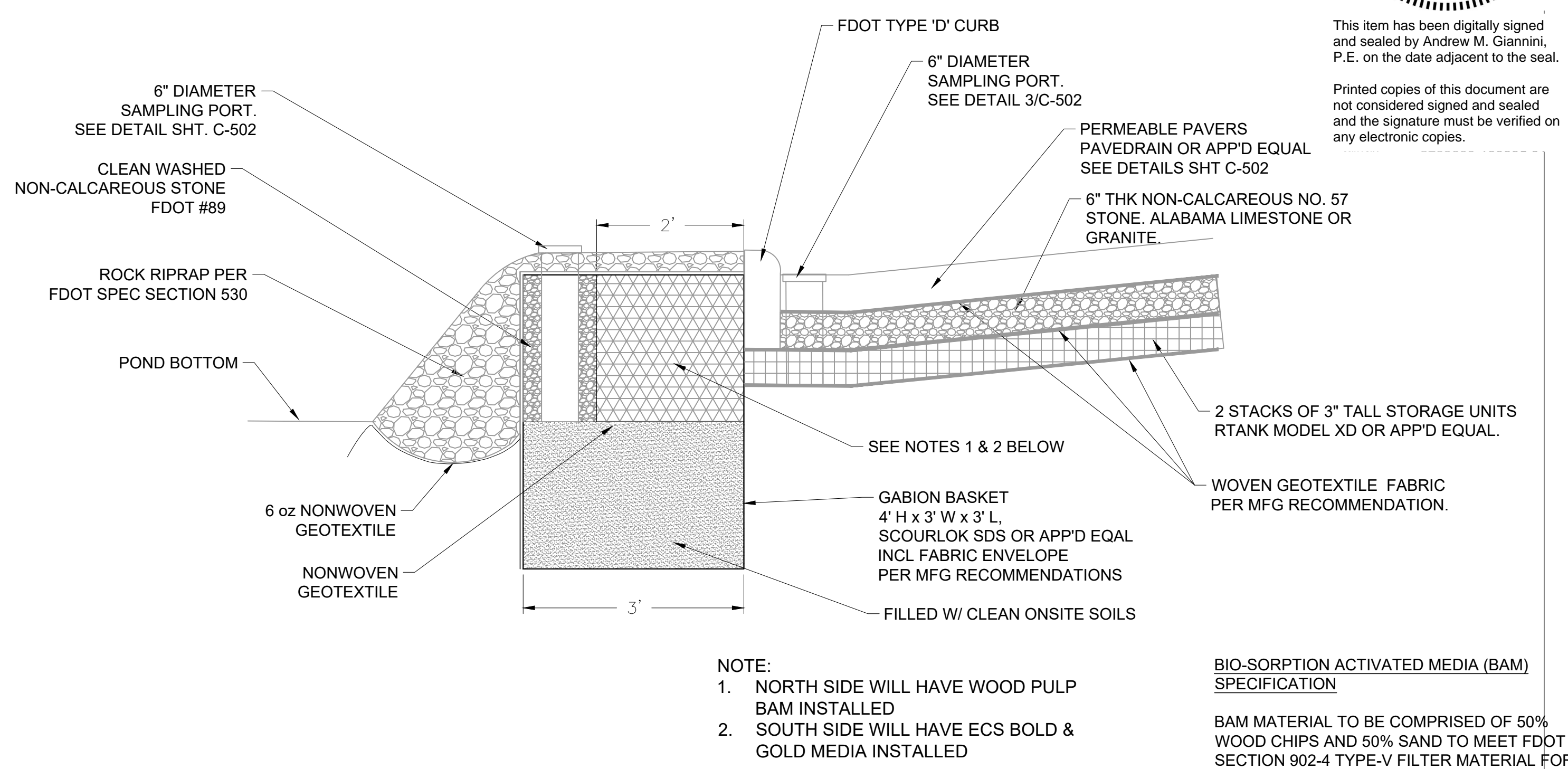


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4 TYPICAL ROAD SECTION AT INTERSECTION
NTS



2 PROFILE VIEW
BAM NUTRIENT REDUCTION WALL
NTS

BIO-SORPTION ACTIVATED MEDIA (BAM) SPECIFICATION

BAM MATERIAL TO BE COMPRISED OF 50% WOOD CHIPS AND 50% SAND TO MEET FDOT SECTION 902-4 TYPE-V FILTER MATERIAL FOR UNDERDRAIN HOMOGENEOUSLY MIXED, PLACED, AND COMPACTED TO 90%. WOOD CHIPS ARE TO BE SOURCE FROM BREVARD COUNTY SOLID WASTE'S FREE MULCH PROGRAM (OR APPROVED EQUAL) AND SHALL BE NON-CONTAMINATED.



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CONVAIR COVE STORMWATER LID
IMPROVEMENTS
MGNABB PARKWAY
COCOA BEACH, FL 32931**

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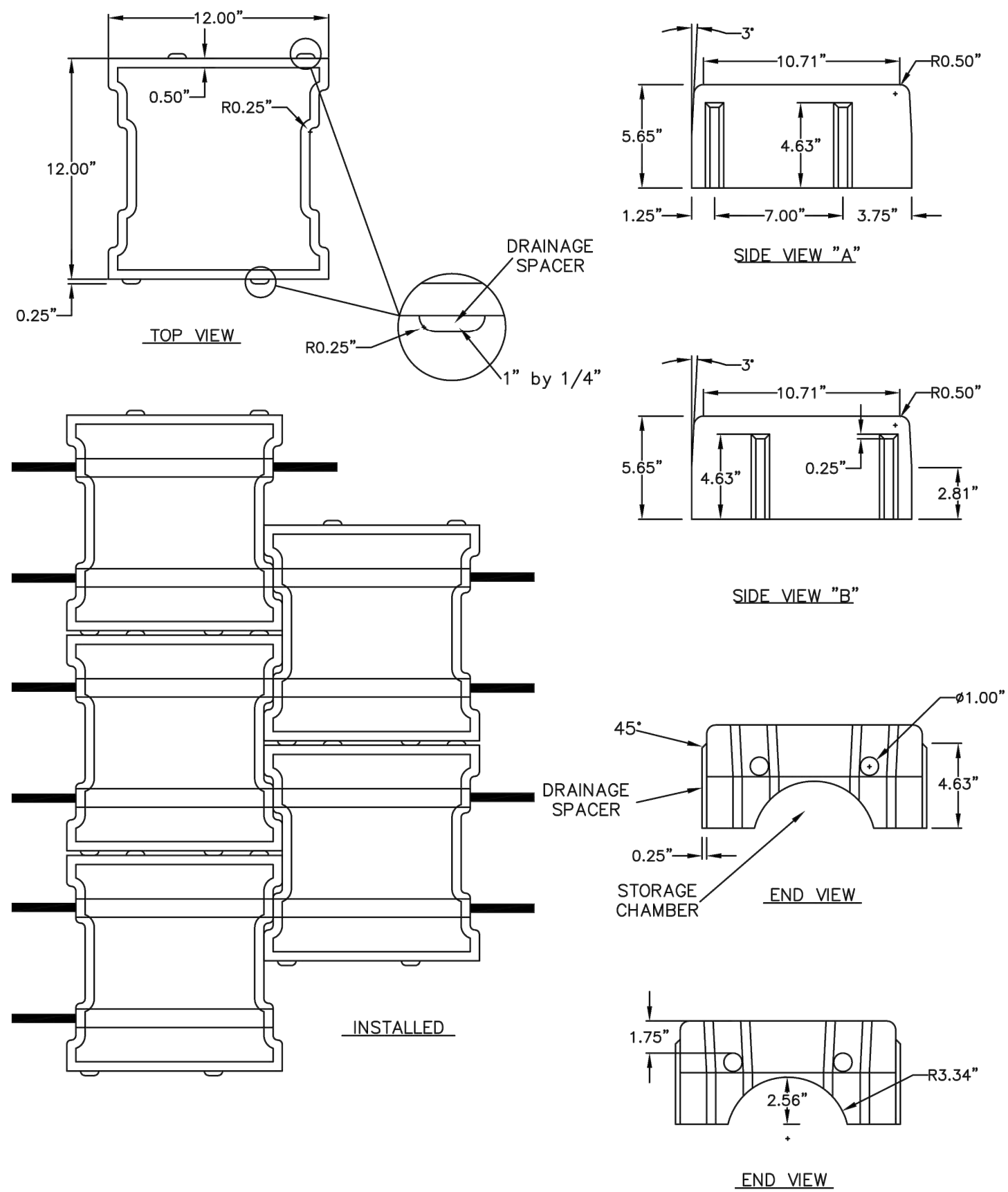
FOR CONSTRUCTION

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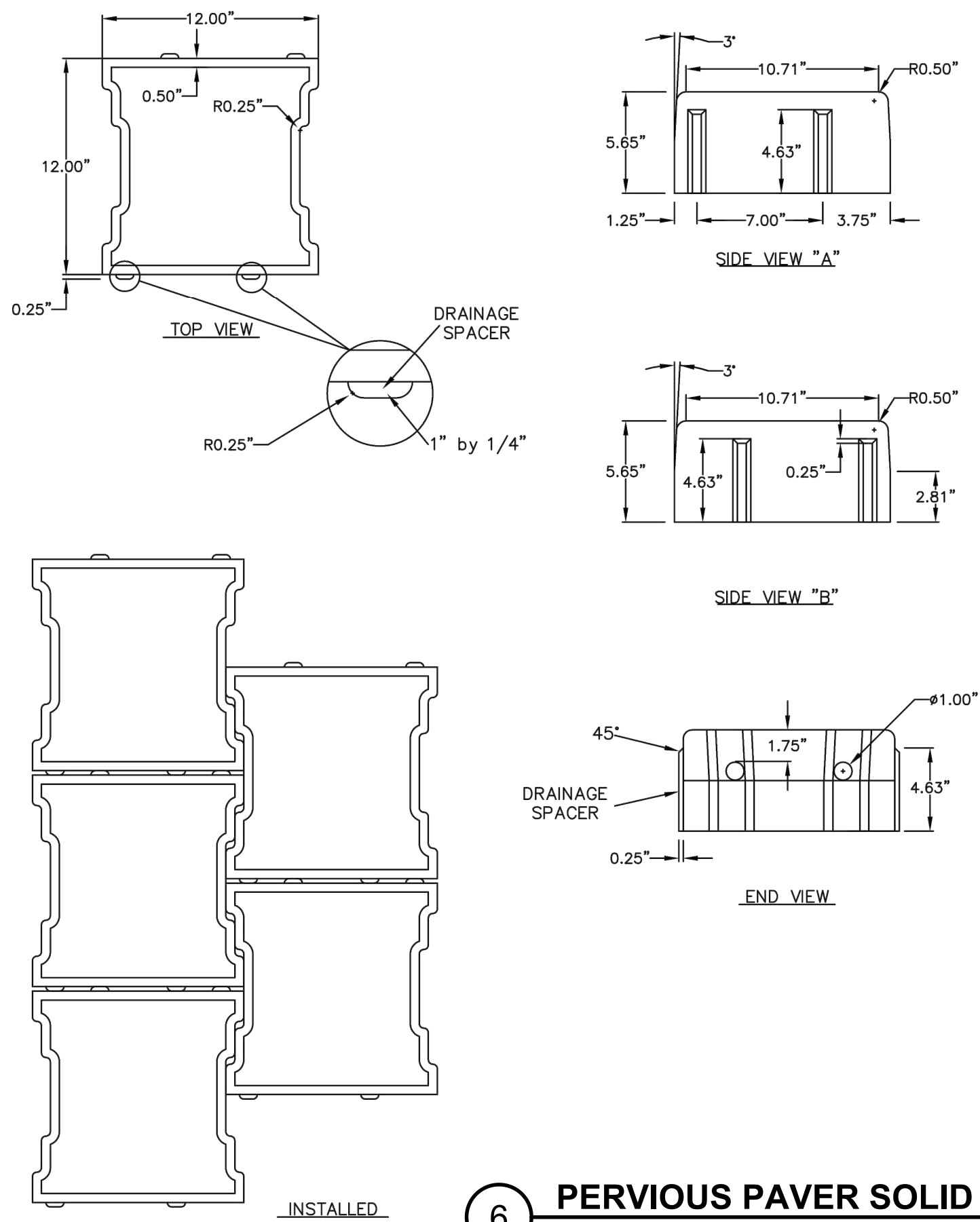
**SHEET CONTENTS
DETAILS**

SHEET NO.

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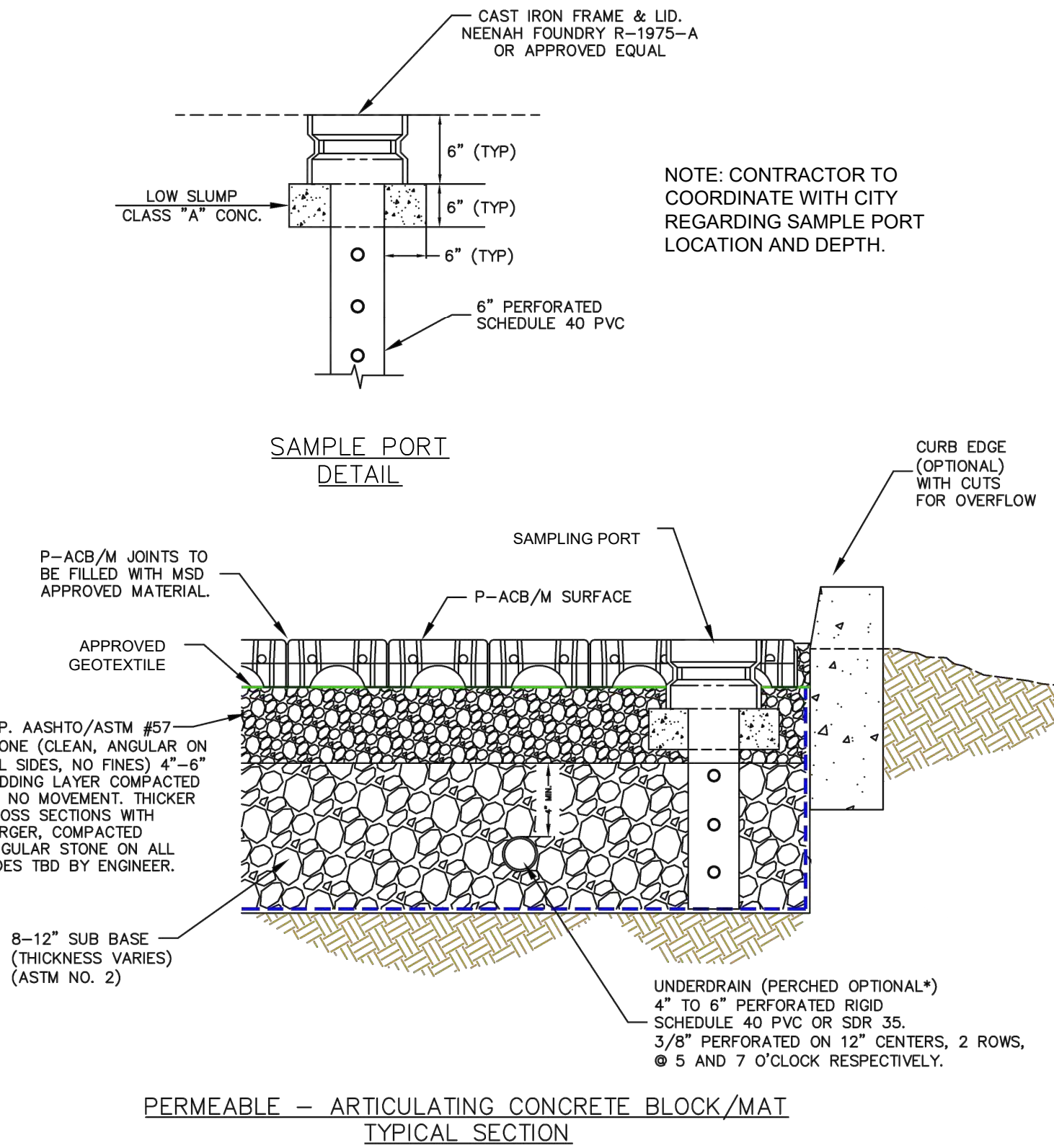


5 PERVIOUS PAVER ARCH BLOCK
NTS

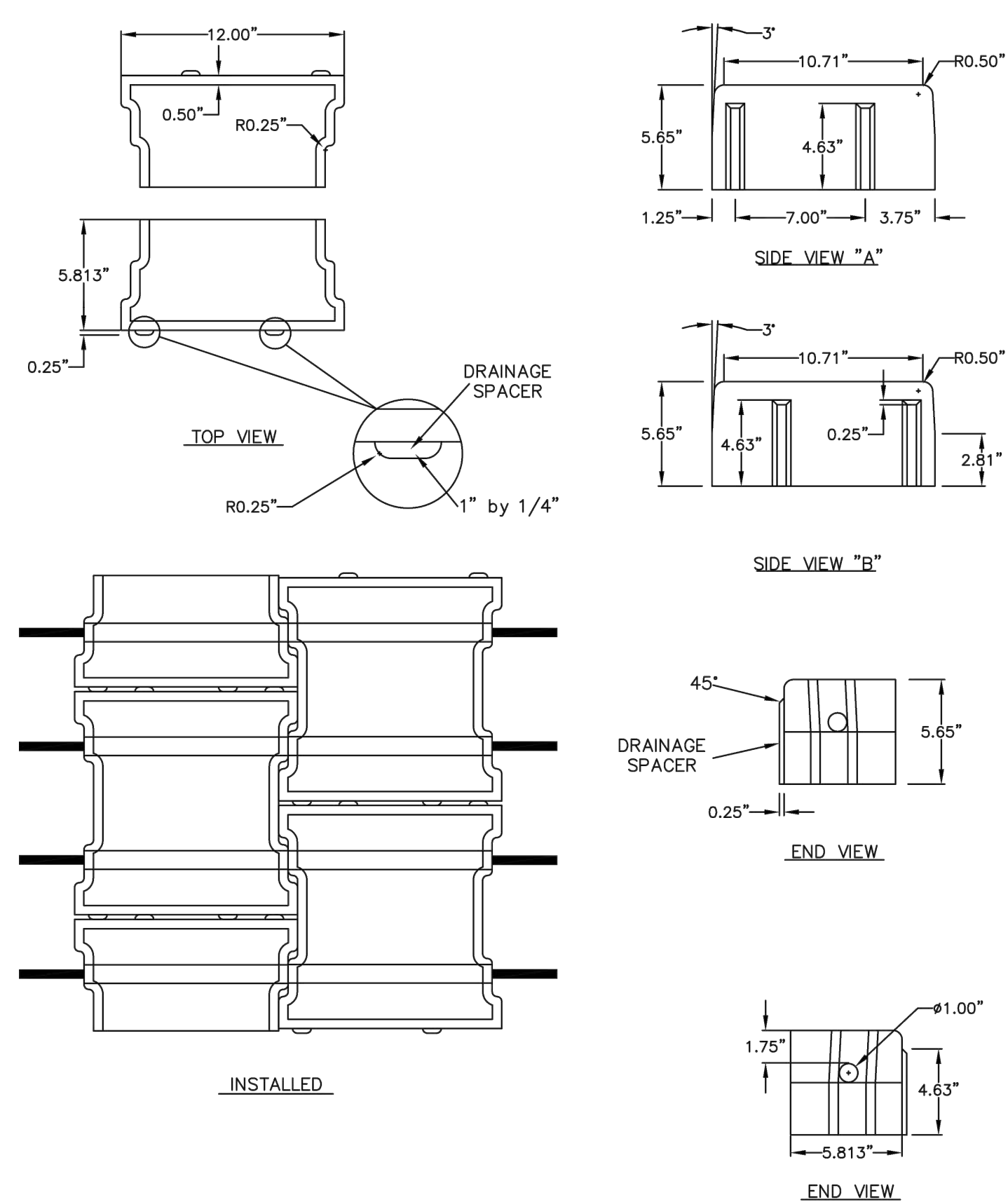


6 PERVIOUS PAVER SOLID BLOCK
NTS

NOTE: SEE SHEET C-503 FOR FURTHER DETAILS REGARDING LOCATION AND TYPE OF SAMPLE PORTS. PROVIDE SHOP DWGS FOR ALL MATERIALS. LIDS SHALL BE TRAFFIC RATED.

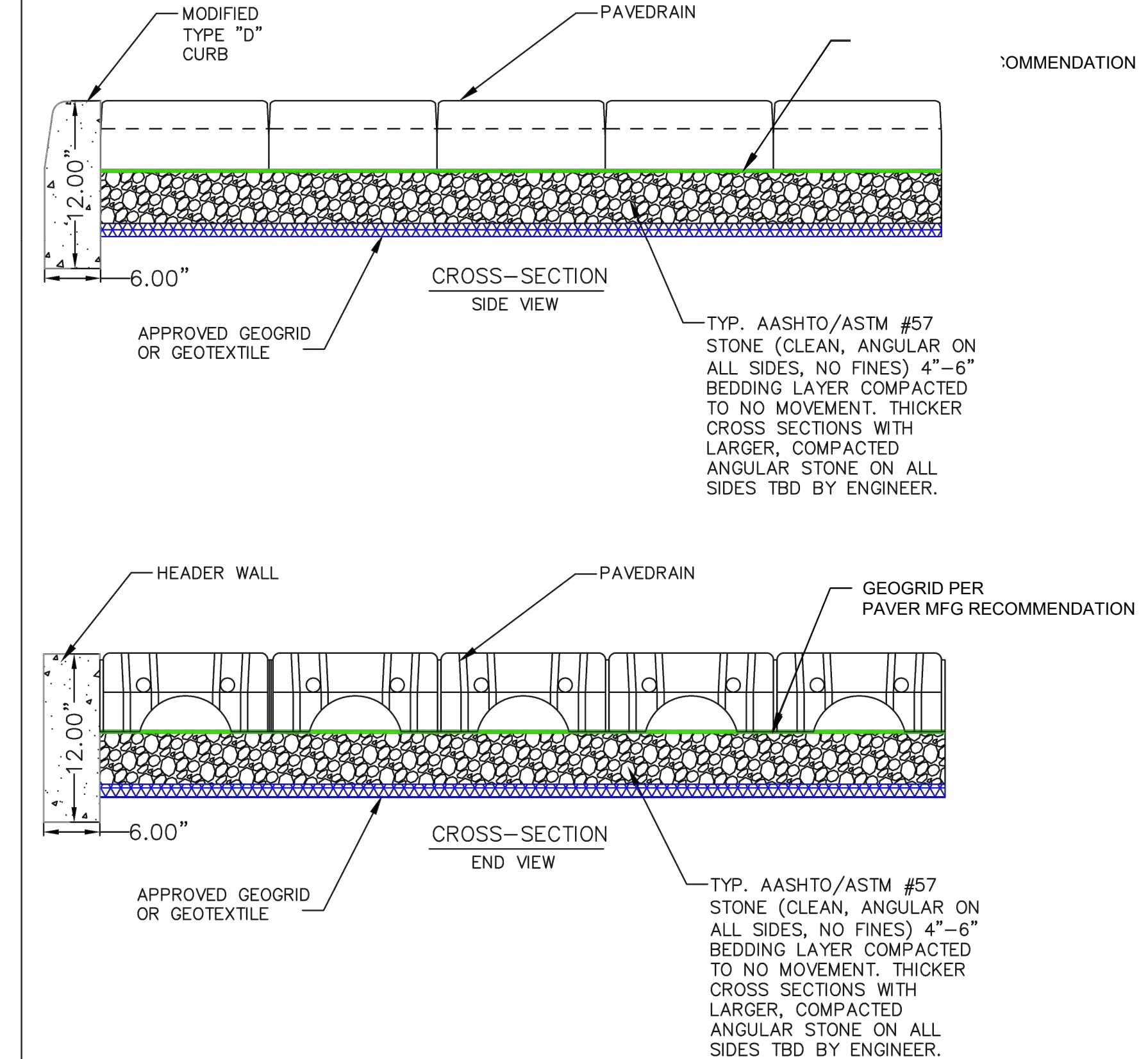


3 PERVIOUS PAVER SAMPLE PORT
NTS

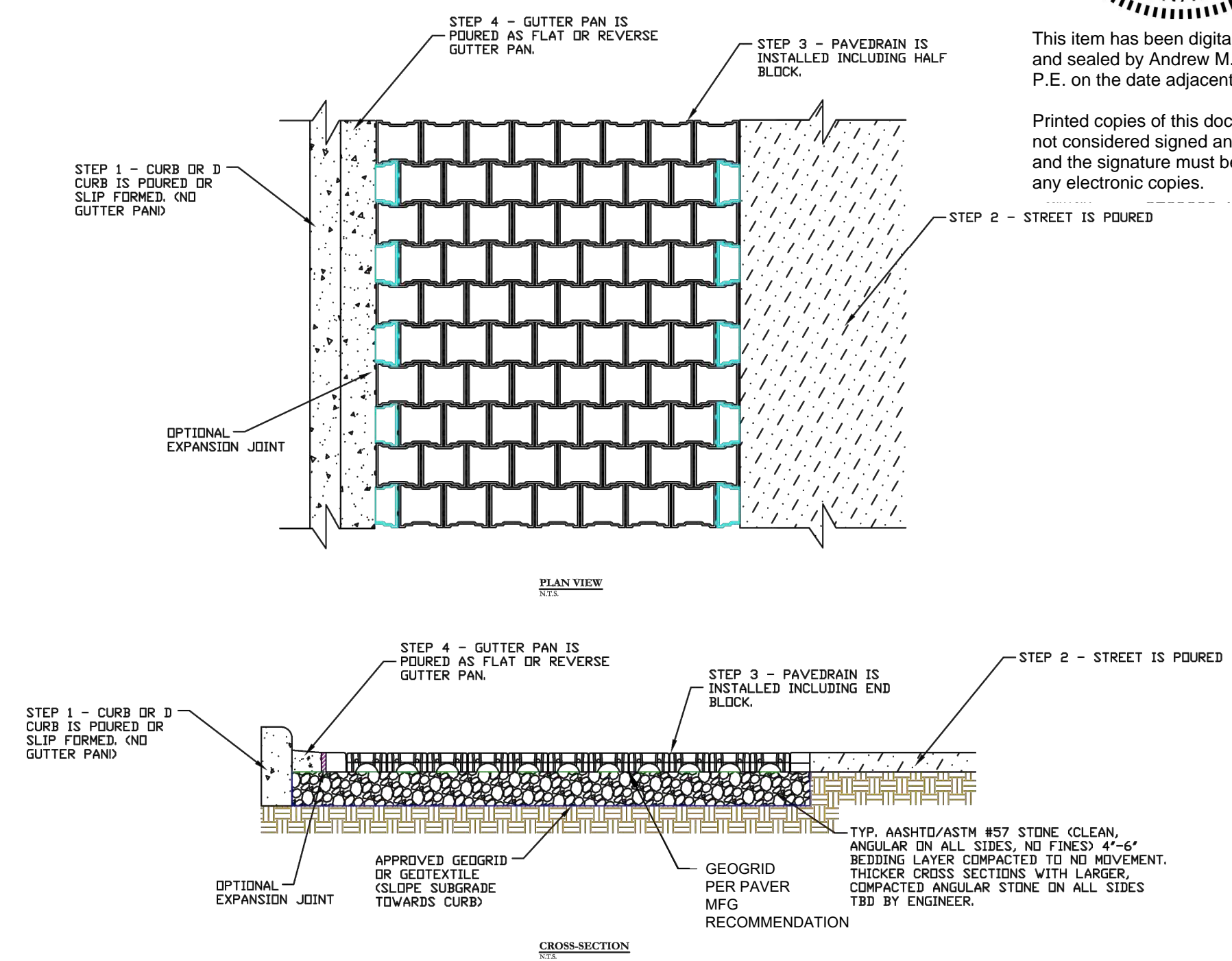


4 PERVIUS PAVER HALF BLOCK
NTS

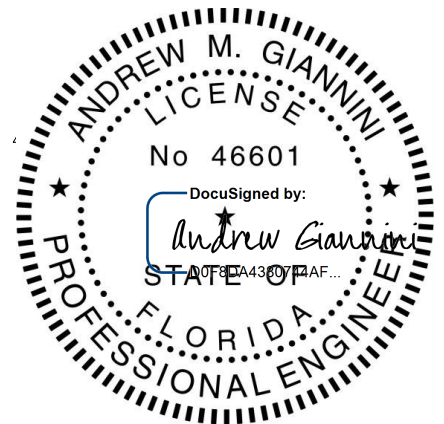
NOTE: DETAILS PROVIDED BY PAVEDRAIN. A SUITABLE EQUIVALENT PAVER SYSTEM MUST BE APPROVED BY THE CITY AND THE ENGINEER.



1 PERVIOUS PAVER WITH CURB
NTS



2 CURB & GUTTER HALF-BLOCK
NTS



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CONVAIR COVE STORMWATER LID
IMPROVEMENTS**
MCNABB PARKWAY
COCOA BEACH, FL 32931

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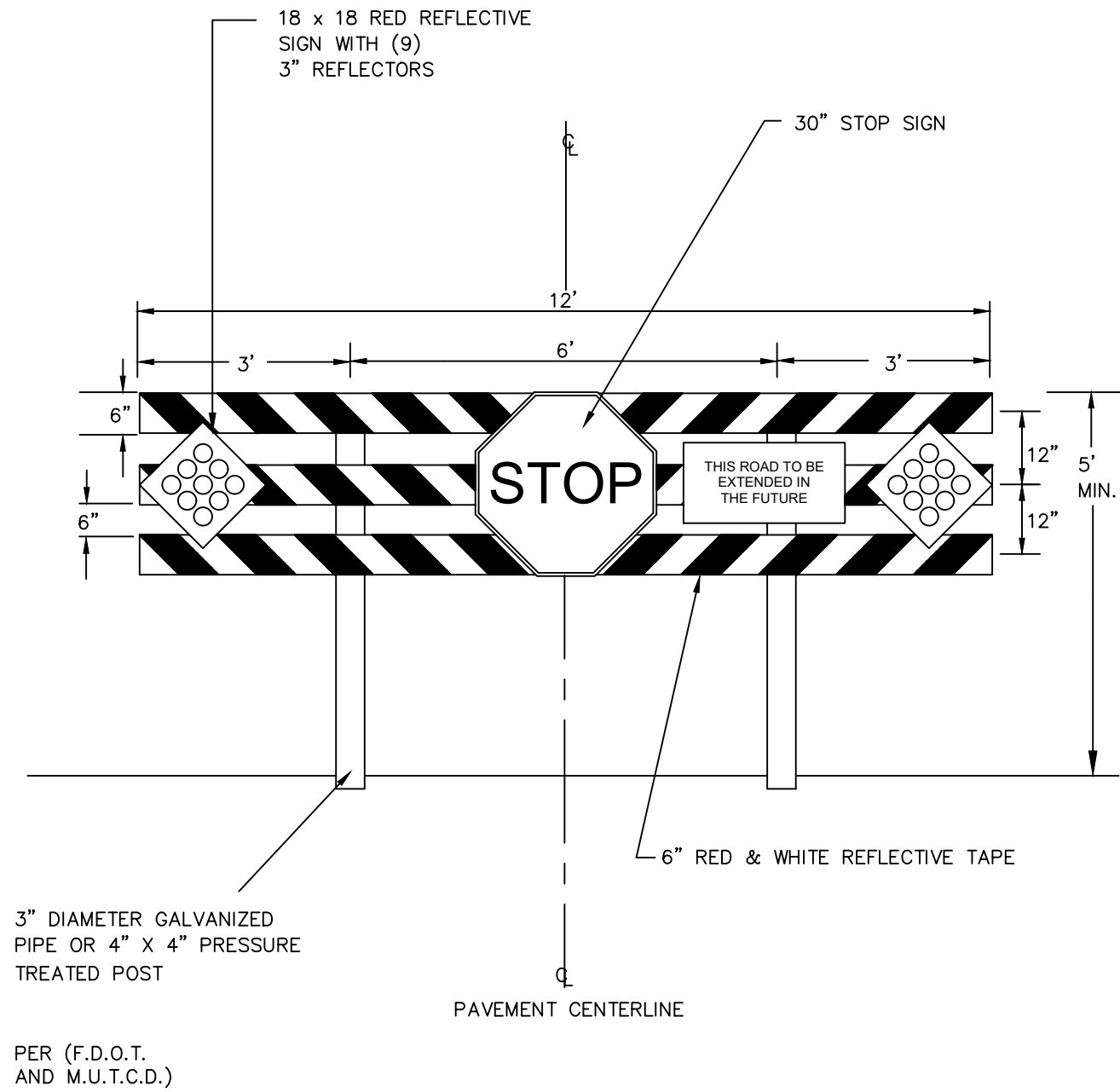
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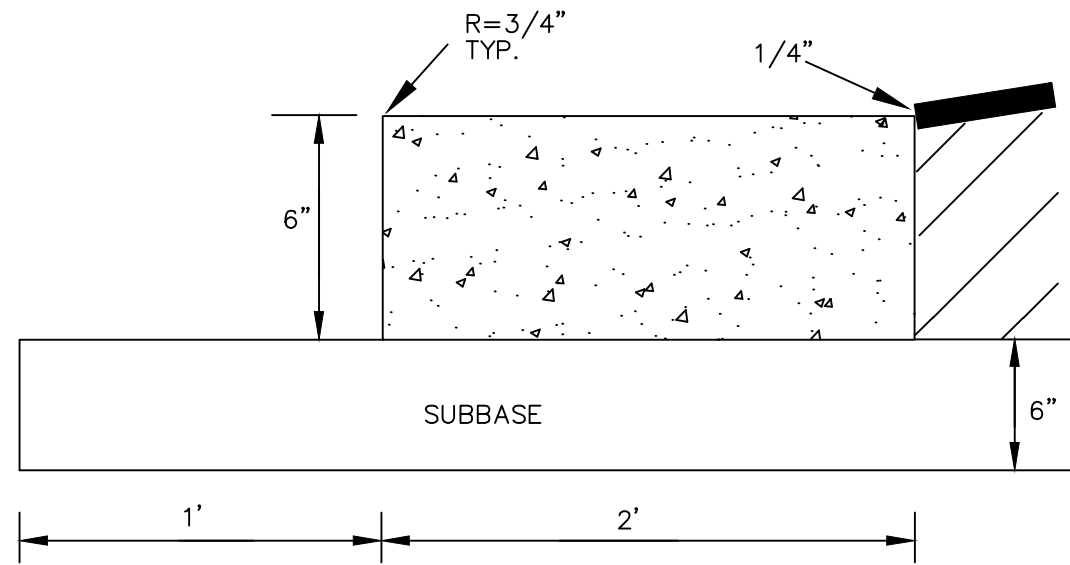
SHEET CONTENTS
PERVIOUS PAVER
DETAILS

SHEET NO.

C-502



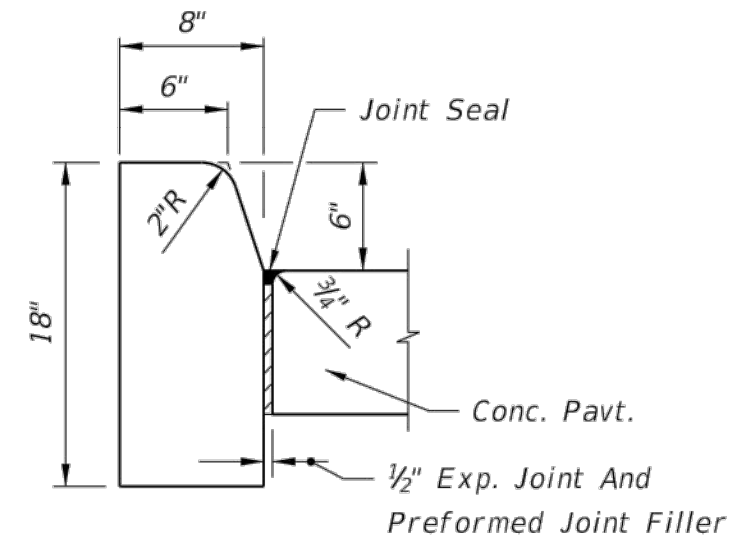
5 CITY OF COCOA BEACH
STANDARD ROAD BARRICADE
NTS



NOTES:

1. ALL CURBS TO BE CONSTRUCTED OF 28 DAY, 3000 P.S.I. CONCRETE 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED EVERY 500', CONSTRUCTION JOINT REQUIRED EVERY 10' MAXIMUM (4' MINIMUM).
2. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED AT EACH SIDE OF ALL STORM INLET STRUCTURES AND AT ALL RADIUS POINTS.
3. 6" SUBBASE TO BE COMPACTED AND TESTED TO 98% DENSITY BASED ON AASHTO T-180 MODIFIED PROCTOR TEST AND SHALL BE STABILIZED TO A MINIMUM L.B.R. 40.
4. EXPANSION JOINT MATERIAL MUST COVER THE ENTIRE CROSS SECTION OF CURB.
5. IN NO INSTANCE SHALL EXTRUDED CURBS (DEFINED AS HEADER-TYPE CURBS INSTALLED DIRECTLY ON TOP OF PAVEMENT) BE PERMITTED.
6. ALL ASPHALT AND/OR PAVER DRIVEWAY APRONS LOCATED IN PUBLIC RIGHTS-OF-WAY, SHALL INCLUDE CURBING.

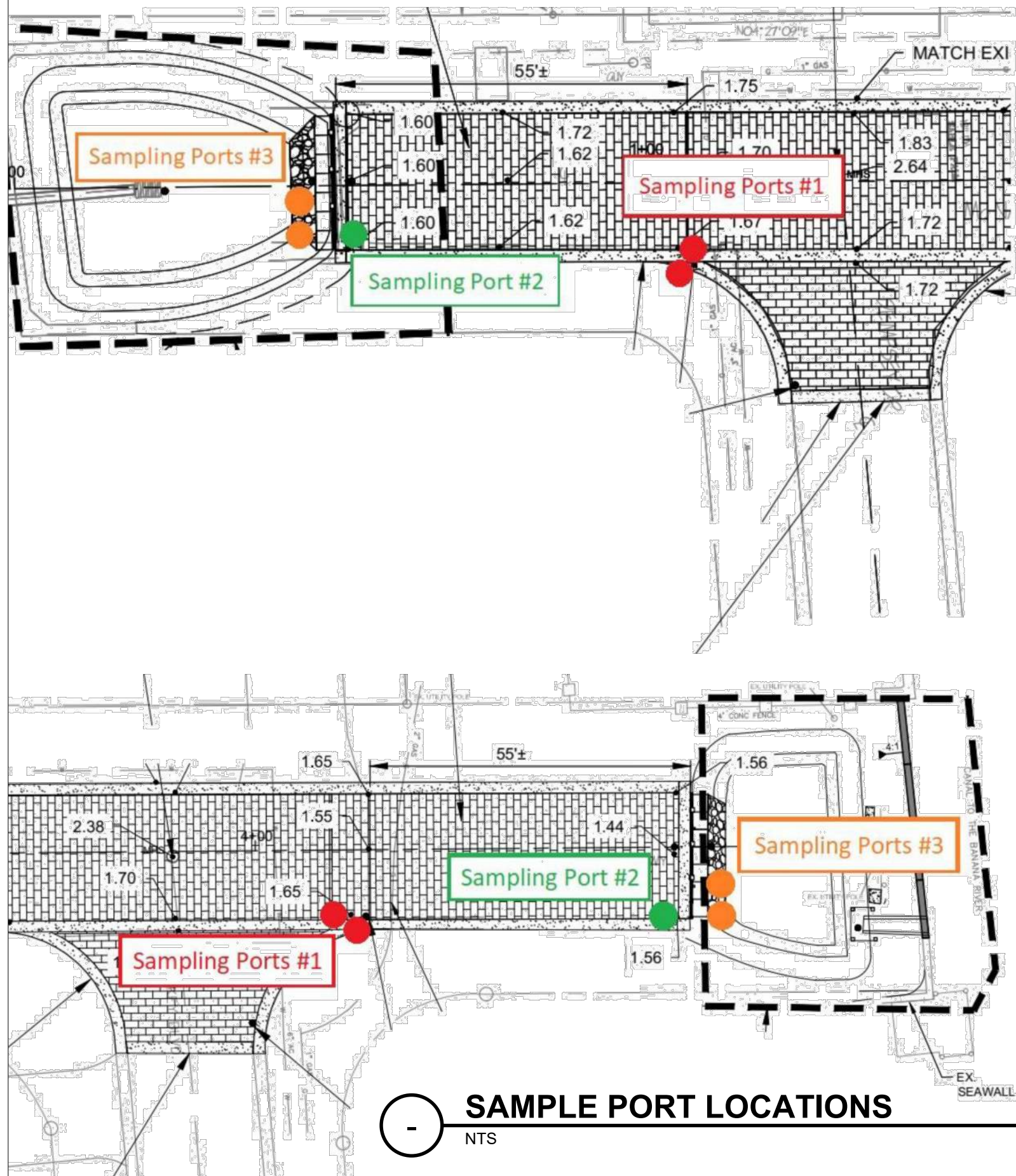
4 ENVIRONMENTAL CURB
NTS



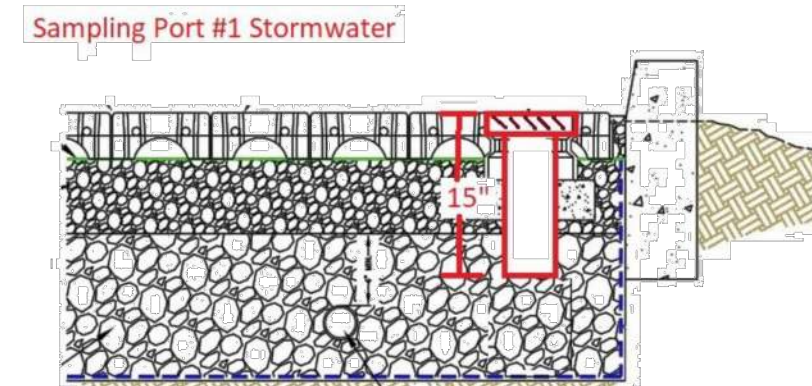
TYPE D

Note: For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 2.

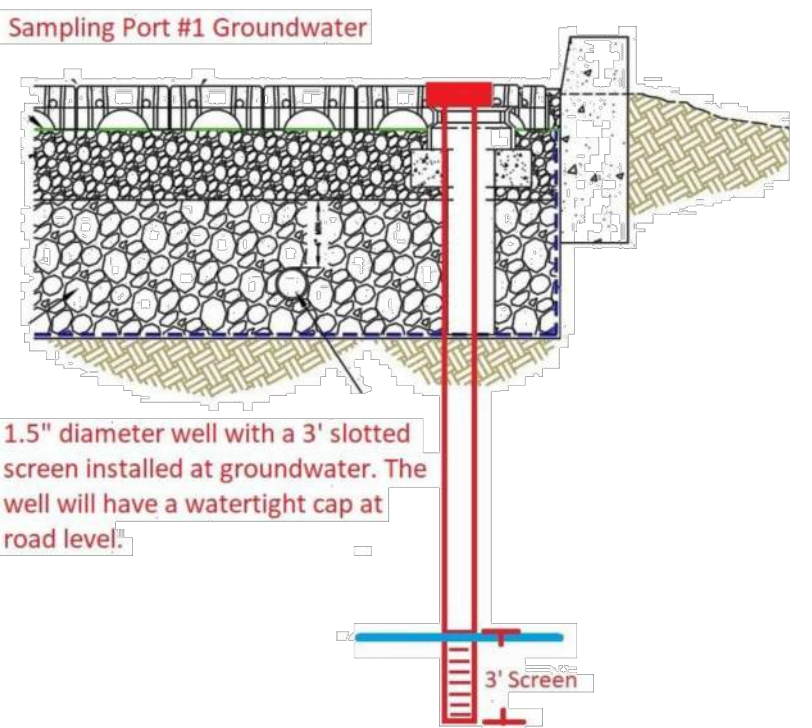
6 F.D.O.T. TYPE 'D' CURB DETAIL
NTS



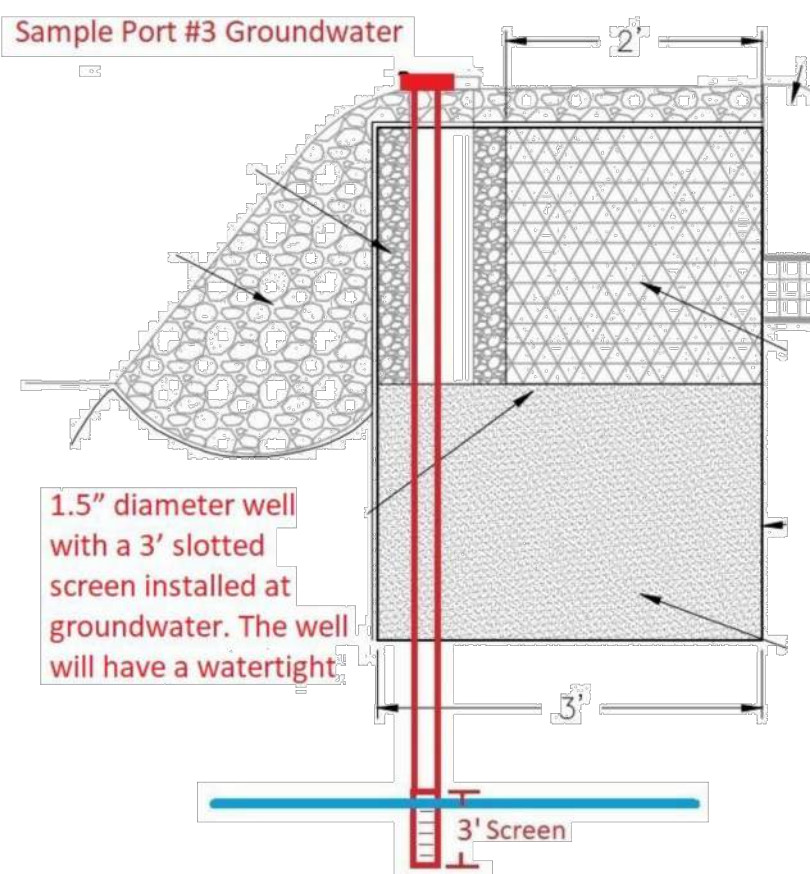
SAMPLE PORT LOCATIONS
NTS



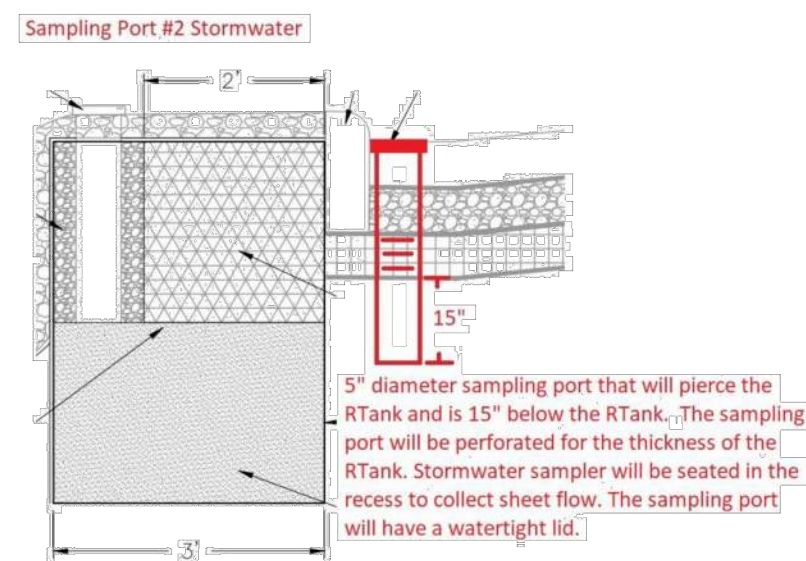
5" diameter sampling port that is 15" below the road surface. Stormwater sampler will be seated in the recess to collect sheet flow. The sampling port lid will be grated to filter large debris.



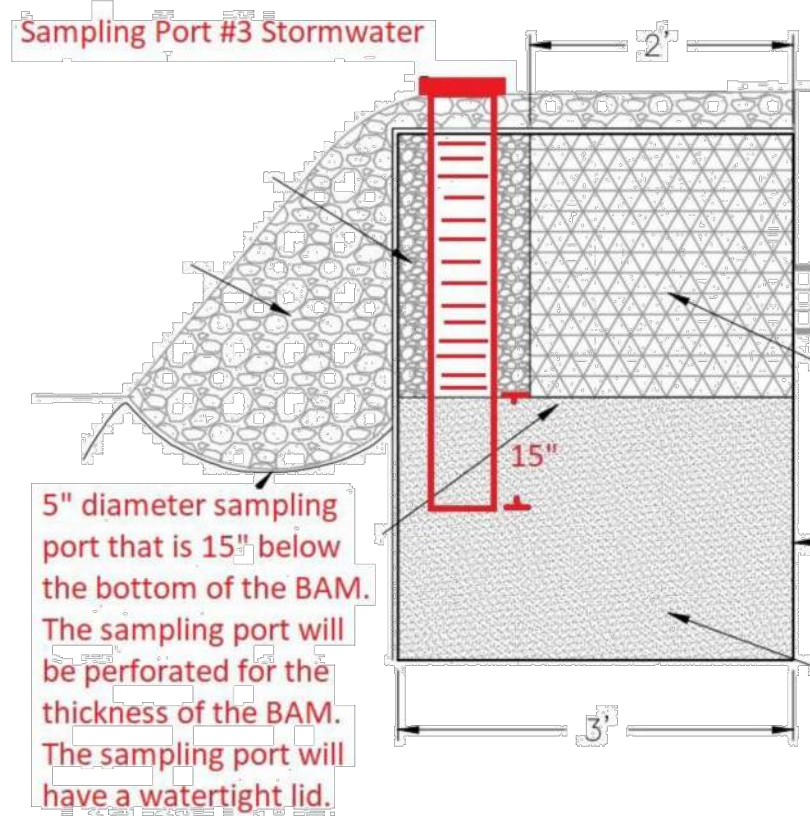
1.5" diameter well with a 3" slotted screen installed at groundwater. The well will have a watertight cap at road level.



1.5" diameter well with a 3" slotted screen installed at groundwater. The well will have a watertight cap.

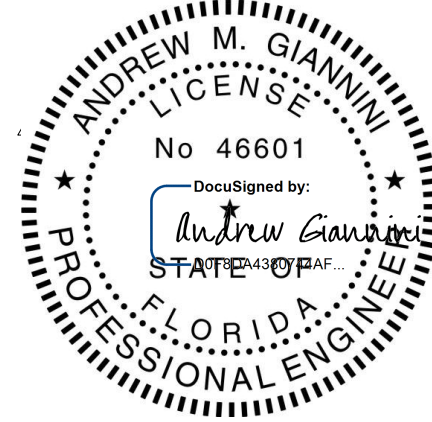


5" diameter sampling port that will pierce the RTank and is 15" below the RTank. The sampling port will be perforated for the thickness of the RTank. Stormwater sampler will be seated in the recess to collect sheet flow. The sampling port will have a watertight lid.



5" diameter sampling port that is 15" below the bottom of the BAM. The sampling port will be perforated for the thickness of the BAM. The sampling port will have a watertight lid.

SAMPLE PORT DETAILS
NTS



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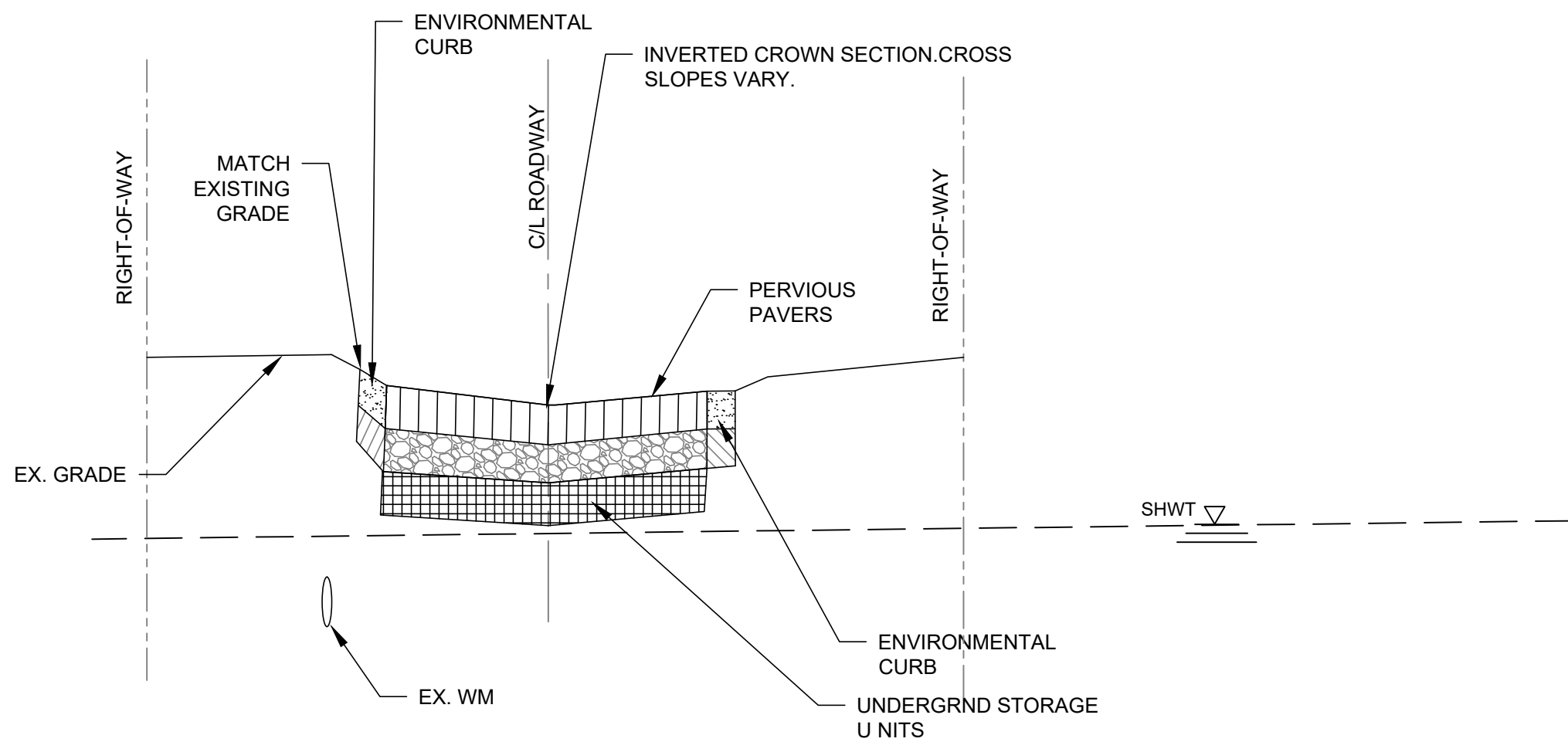
FOR CONSTRUCTION

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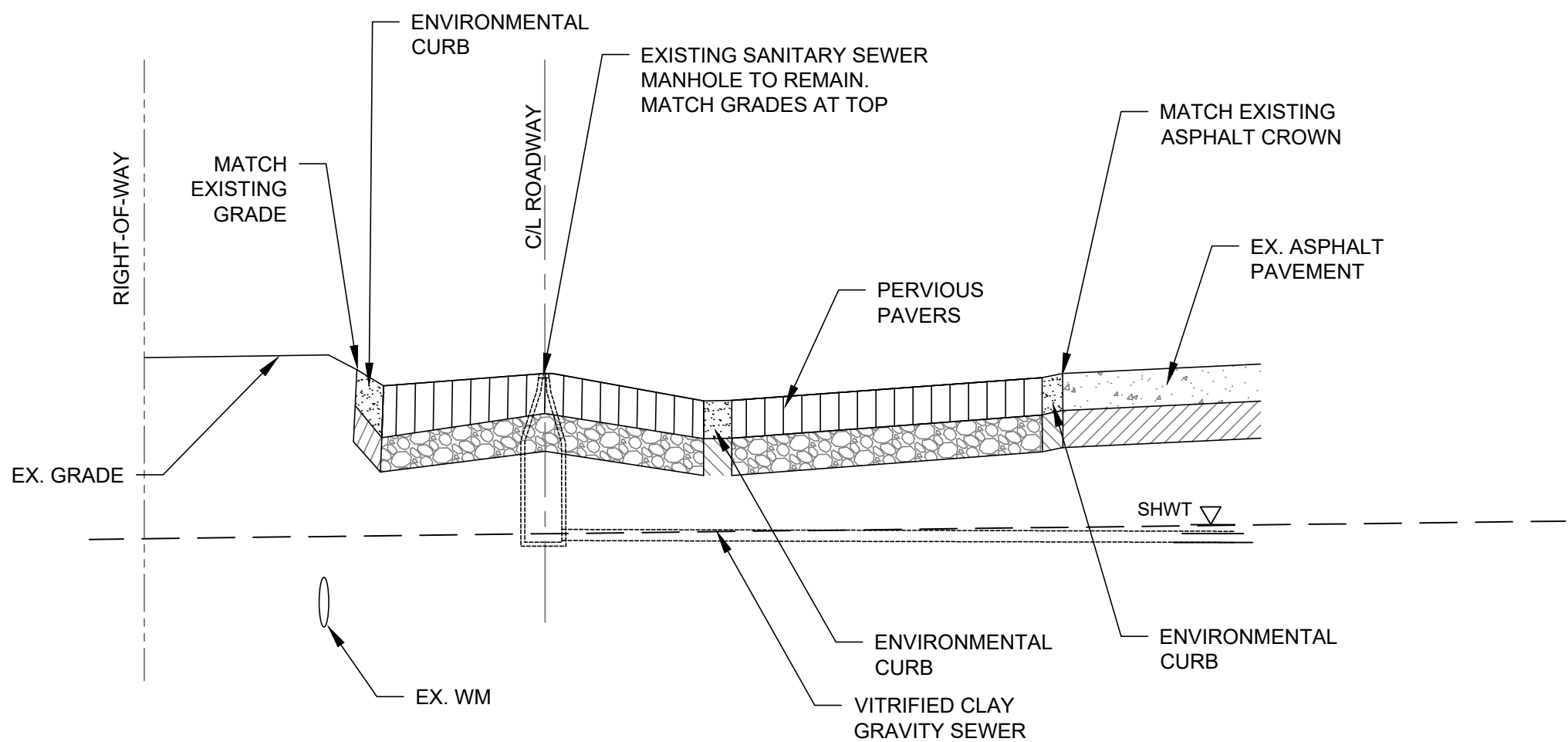
SHEET CONTENTS
STANDARD DETAILS
AND SAMPLE PORT
DETAILS

SHEET NO.

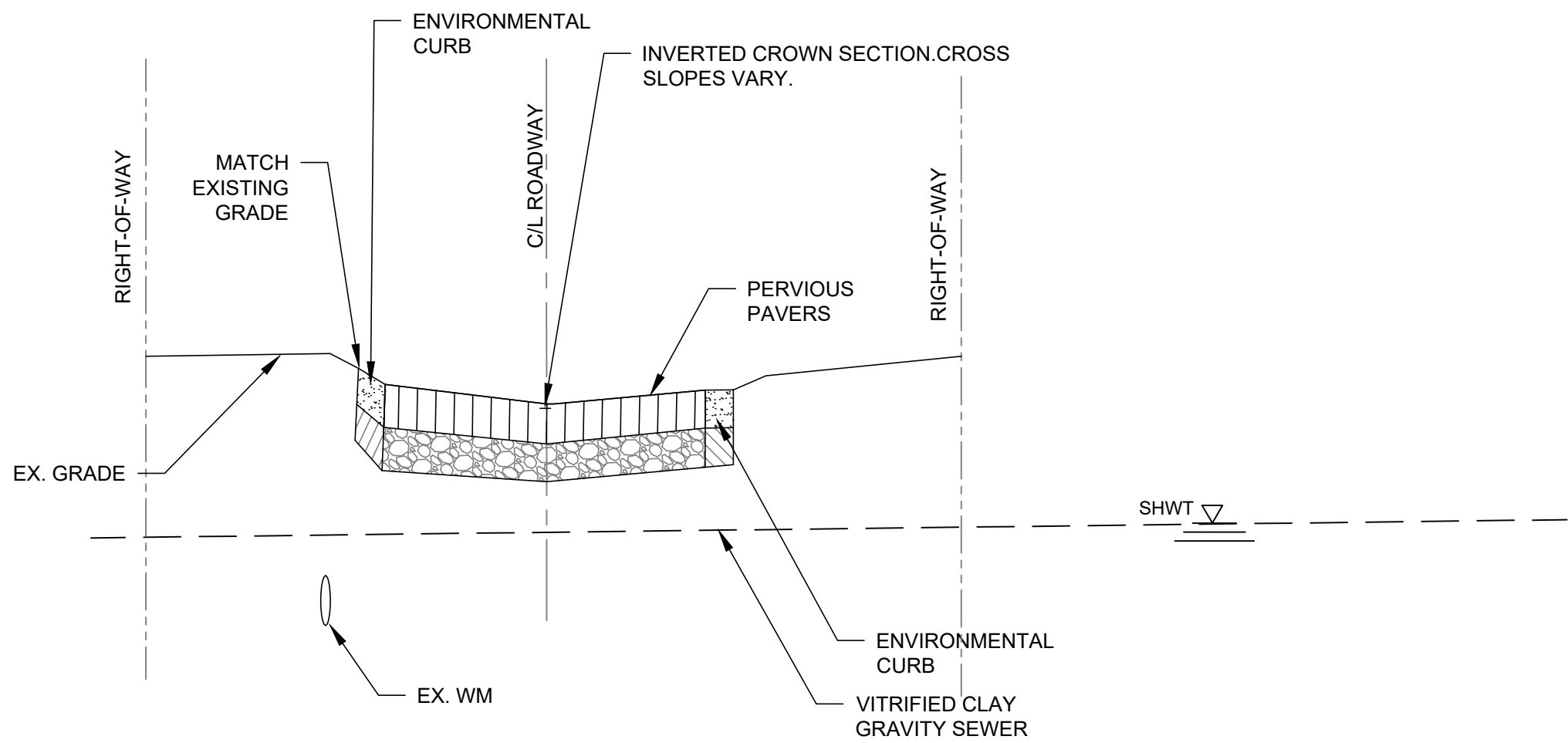
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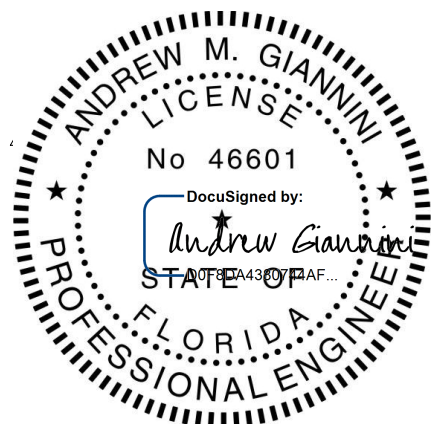
TYPICAL SECTION AT UNDERGROUND STORAGE UNITS
NTS



TYPICAL SECTION AT INTERSECTION
NTS



TYPICAL SECTION - INVERTED CROWN
NTS



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01/22/19	60% DESIGN
06/14/19	90% DESIGN
09/26/19	100% DESIGN
11/24/20	BID SET

FOR CONSTRUCTION

M&H NO.:	4505000-172380.01
DATE:	NOVEMBER 2020
DESIGNED BY:	SGD
DRAWN BY:	ADC
CHECKED BY:	AMG
DO NOT SCALE DRAWINGS	

**SHEET CONTENTS
CROSS SECTIONS**

SHEET NO.

C-901