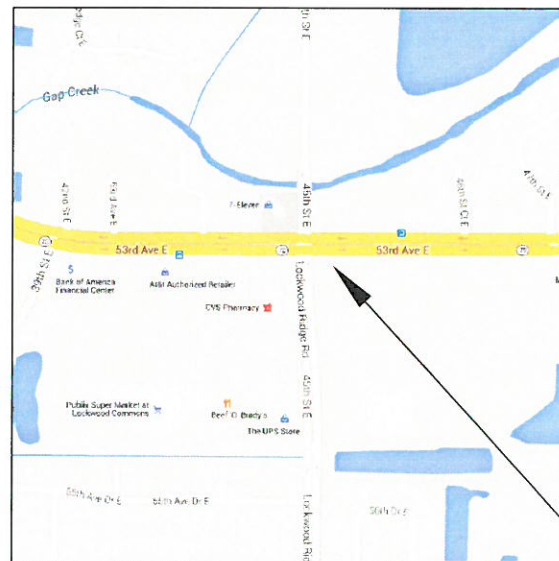




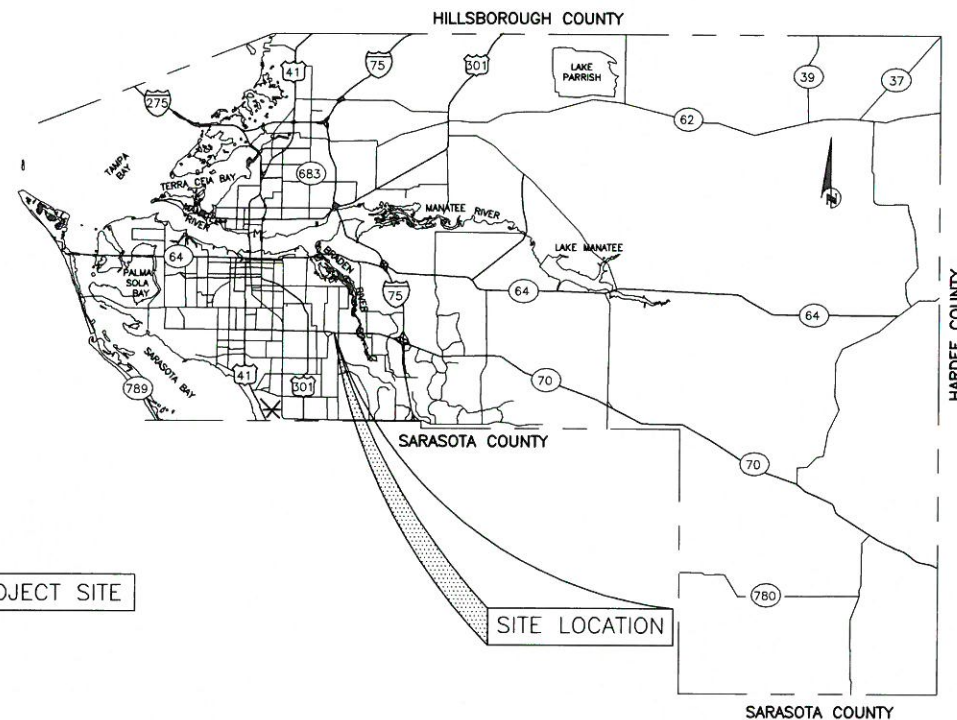
LOCKWOOD RIDGE @ SR70 UTILITY RELOCATIONS

JUNE 2016

LOCKWOOD RIDGE @ SR70
UTILITY RELOCATIONS
COVER SHEET



VICINITY MAP
N.T.S.



NO.	INDEX OF SHEETS
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3-4	PLAN AND PROFILE
5	EROSION CONTROL

PROJECT DESCRIPTION
RELOCATE 30" WATERMAIN AND 10" FORCEMAIN

PROJECT #	
SURVEY #	
SEC./TWN./RGE	
DATE	
DESIGNED BY	SM 06/18/16
DRAWN BY	EA 06/18/16
CHECKED BY	SM 06/18/16
SCOTT A. MAY	
FLORIDA P.E. # 33241	
STATE OF FLORIDA	
PROFESSIONAL ENGINEER	
SIGNATURE & Date	
SHEET 1 OF 5	

1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE MANATEE COUNTY. THE PROJECT MANAGER IS: SCOTT MAY, P.E. AND CAN BE REACHED AT (941) 708-7450 EXT. 7650

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
10. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

3. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
14. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
15. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
16. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
17. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
18. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
19. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
20. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
23. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
24. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPES AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
26. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.

27. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.

28. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS,

SIDEWALKS, SIGNS, MAIL BOXES/FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

- REQUIRED TO 18" BELOW TRENCH BOTTOM.
40. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
41. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
42. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
43. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
44. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
45. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
46. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
47. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
48. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
49. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
50. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS, WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS. WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, SARASOTA HERALD TRIBUNE, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.









53. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
 52. ALL EXISTING MAINS SHALL BE REMOVED WHEREVER A NEW MAIN IS PROPOSED.
 53. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE LAID PER CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.
 54. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
 55. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER.
 56. ALL MANATEE COUNTY STANDARD DETAILS SHALL BE USED UNLESS PRIOR APPROVAL IS OBTAINED FROM MANATEE COUNTY ENGINEERING.
- SPECIAL PROVISIONS
57. CONTRACTOR SHALL GIVE MANATEE COUNTY 48 HOURS NOTICE OF ANY NIGHT WORK.
 58. MANATEE COUNTY WILL PROVIDE TEMPORARY WATER SERVICE TO WAL-MART AND WAWA DURING NECESSARY SHUTDOWNS.
 59. MANATEE COUNTY WILL PERFORM A BAC-T SAMPLE OF THE MAINS PRIOR TO OPENING OF THE VALVES AT COMPLETION.
 60. MANATEE COUNTY WILL PROVIDE ALL VALVE SHUTDOWNS.
 61. MANATEE COUNTY WILL WAIVE ALL PIGGING REQUIREMENTS.
 62. MANATEE COUNTY WILL HANDLE ALL PUMP STATION MANAGEMENT.

54. CONTRACTOR SHALL GRADE A 6" DIAMETER DEPRESSION AROUND THE EXISTING CATCH BASIN TO 2" BELOW THE EXISTING CATCH BASIN AND SHALL INSTALL A FILTER SOCK PROTECTING THE EXISTING CATCH BASIN FROM RECEIVING EROSION DEBRIS.
55. CONTRACTOR SHALL INSTALL A WATER TIGHT PLUG ON THE NORTH 30" WATER MAIN.
56. ALL UTILITY RELOCATIONS SHALL CONFORM TO MANATEE COUNTY UTILITY STANDARDS.
57. PLACE CAPS ON EXISTING 30" WATER MAIN DURING CONSTRUCTION.
58. SOUTHERN 30" WATER MAIN TO REMAIN IN SERVICE UNTIL ALL FINAL CONNECTIONS HAVE BEEN MADE INCLUDING TESTING.

- | | | | |
|---|--|---|--|
| MANATEE COUNTY
PUBLIC WORKS DEPT.
1022 26TH AVENUE EAST
BRADENTON, FL. 34208
SCOTT MAY, P.E.
(941) 708-7450 EXT. 7650
FAX: (941) 708-7415 | FLORIDA POWER & LIGHT
1253 12TH AVENUE EAST
PALMETTO, FL 34221
GREG COKER
(941) 723-4430
FAX: (941) 723-4444
EMERGENCY: 1-800-4-OUTAGE
Greg_Coker@fpl.com | PUBLIC GAS TRANSMISSION
7804 ANDERSON RD.
TAMPA FL 33634
CHAD HARRELL
PHONE: (813) 466-3327
E-mail: chad.harrell@sgm.com | SUNSHINE STATE ONE CALL OF
FLORIDA 1-(800) 432-4770
PEACE RIVER ELECTRIC
COOPERATIVE, INC.
P.O. BOX 1310
WACHULA FL 33873
KENDELL COKER
(863) 767-4660
kendell.coker@preco.coop |
| TECO/PEOPLES GAS CO.
8261 VICO COURT
SARASOTA, FL 34240
(941) 342-4030
DAN SHANAHAN
FAX: (941) 342-4011
EMERGENCY: 1-877-832-6911 | MANATEE COUNTY HEALTH DEPT.
410 6th AVENUE EAST
BRADENTON, FL 34208
(941) 748-0747 EXT. 1355
FAX: (941) 750-9364 | DEPARTMENT OF ENVIRONMENTAL
PROTECTION
13051 N. TELECOM PKWY
TEMPLE TERRACE, FL 33637
ED WATSON
PHONE: (813) 470-5875
FAX: (813) 470-5993 | MANATEE COUNTY PUBLIC WORKS
DEPT./TRAFFIC ENGINEERING/
ATMS
2101 47TH TERRACE EAST
BRADENTON, FL 34203
VISHAL KAKKAD, P.E.
(941) 749-3500 EXT. 7812
FAX: (941) 749-3571
vishal.kakkad@mymanatee.org. |
| VERIZON FLORIDA, INC.
1701 RINGLING BLVD.
SARASOTA, FL 34236
JOHN PLOTT
(941) 906-6707
FAX: (941) 906-6706 | SOUTHWEST FLORIDA WATER
MANAGEMENT DISTRICT
SARASOTA SERVICE OFFICE
6750 FRUITVILLE ROAD
SARASOTA, FL 34240
(941) 377-3722
FAX: (941) 373-7660 | BRIGHT HOUSE NETWORKS
5413 E. STATE ROAD 64
BRADENTON, FL 34208-5535
TOM WRIGHT
(941) 748-3816 EXT. 21348
Tom.Wright@mybighthouse.com | |

LEGEND

EXISTING

BM		BENCH MARK		BUSH			
CM	•	CONCRETE MONUMENT		TREE			
IP		IRON PIPE		OAK TREE		R/W	RIGHT OF WAY
IR	+	IRON ROD		PALM TREE		CONC	CONCRETE
HUB		HUB		PINE TREE		ASPH	ASPHALT
N&D	•	NAIL & DISK		EDGE OF VEGETATION		DRWY	DRIVEWAY
		ELEVATION		CHAIN LINK FENCE		SWK	SIDEWALK
		PARCEL ID. NO.		WOOD FENCE		EP	EDGE OF PAVEM
		PARCEL ID. NO.		BARBED WIRE FENCE		BOC	BACK OF CURB

GW	GUY WIRE	PW	POTABLE WATER
PP	POWER POLE	RCW	RECLAIMED WATER
LP	LIGHT POLE	SS	SANITARY SEWER
MB	MAIL BOX	S	STORM DRAIN
SN	SIGN	GAS	GAS LINE
REF	REFLECTOR	OH TV	OVERHEAD TV
SPRK	SPRINKLER	UGTV	UNDERGROUND TV
GM	GAS MARKER	OE	OVERHEAD ELECTRIC
BFP	BACKFLOW PREVENTER	BE	UNDERGROUND ELECTRIC
BO	BLOW OFF VALVE	OH VER	OVERHEAD VERTIZON
FH	FIRE HYDRANT	UG VER	UNDERGROUND VERTIZON
WV	WATER VALVE	VER	VERTIZON
ARV	AIR RELEASE VALVE	UG	UNDERGROUND UTILITY
WM	WATER METER	OH	OVERHEAD UTILITY
SMH	SANITARY SEWER MANHOLE	RR	RAIL ROAD TRACKS
CS	SANITARY SEWER CLEAN OUT	EC	EDGE OF CONCRETE
SB#1	SOIL BORING LOCATION	ER	EDGE OF ROAD
TEL	TELEPHONE SERVICE BOX	TS	TOE OF SLOPE
	FLOW DIRECTION	TB	TOP OF BANK
GI	GRATE INLET	PL	PROPERTY LINE
	MITERED END SECTION	RR	RIGHT OF WAY

PROPOSED

_____ MAIN

_____ SERVICE LINE

_____ PROPOSED EASEMENT

_____ FIRE HYDRANT VALVE

_____ SANITARY SEWER BLOW OFF ASSEMBLY

_____ REDUCER

_____ TEE

_____ HORIZONTAL BEND

_____ VERTICAL BEND

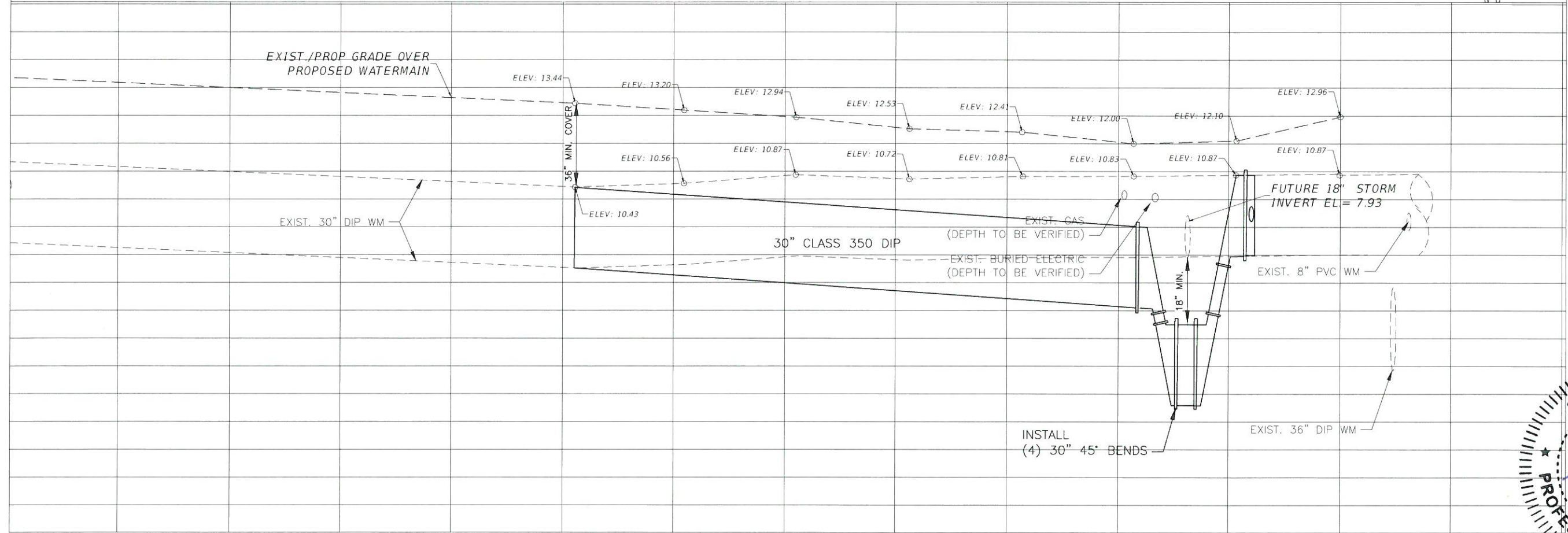
_____ PLUG


_____ MASTER METER

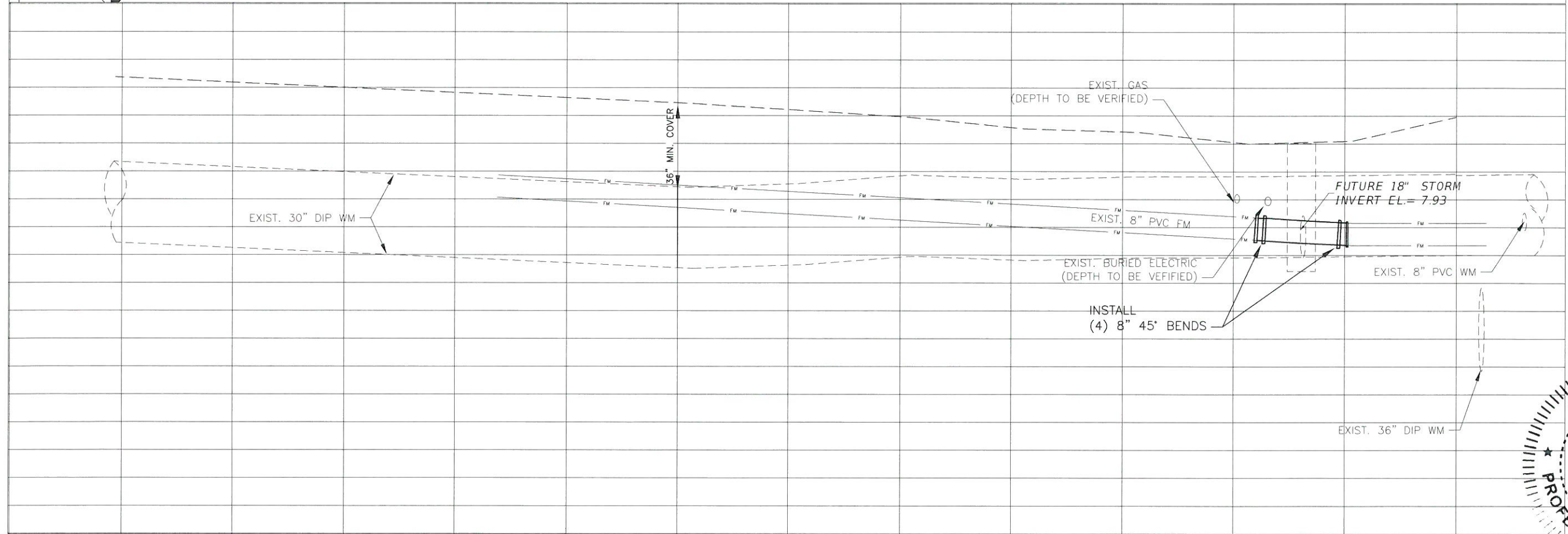
_____ SERVICE LINE & DOUBLE SERVICE

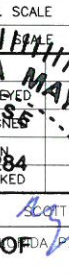
[illegible]

PROJECT #	N/A
SURVEY #	#####
SEC./TWN./RGE	#####
SECTION	
A MAY 1978	DATE
DRAWN BY	#####
DESIGNED BY	SM 05/18/16
CHECKED BY	EA 05/18/16
APPROVED BY	Q 05/18/16
BY SCOTT A. MAY	
FOR PRIDA P-73284	
PRIDA	
AL ENGINEER	
Signature & Date	



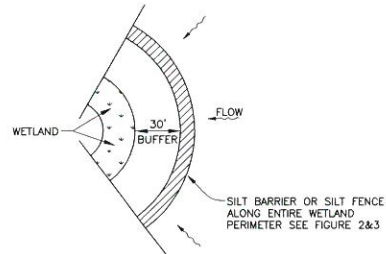
DATE						
BY						
REVISION DESCRIPTION						
NO.						
PROJECT #	N/A					
SURVEY #	#####					
SEC./TWN./RGE	#####					
VERT. SCALE	11X17 1"=4'					
HORIZ. SCALE	11X17 1"=20'					
BY	DATE					
DRAWN	SM	05/18/16				
CHECKED	JEA	05/18/16				
	SM	05/18/16				
						
Signature & Date						
SHEET 3 OF 5						



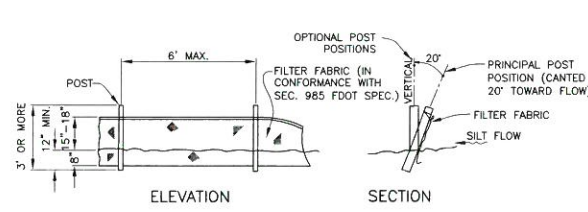
DATE	BY	REVISION	DESCRIPTION
NO.			
PROJECT #	N/A		
SURVEY #	#####		
SEC./TWN./RGE	#####		
VERT. SCALE	11X17 1"=4'		
HORIZ. SCALE	11X17 1"=20'		
DATE			
DESIGNED BY	SM	05/18/16	
DRAWN BY	SEA	05/18/16	
CHECKED BY	SM	05/18/16	
DATE OF	05/18/16		
			
Signature & Date			
SHEET 4 OF 5			

SHEET 4 OF 5

LOCKWOOD RIDGE @ SR70
UTILITY RELOCATIONS
EROSION CONTROL

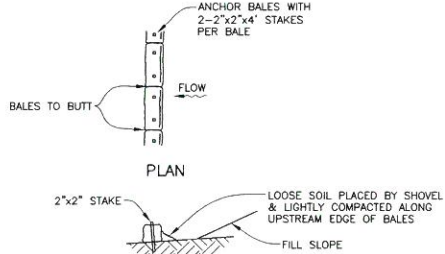


WETLAND BUFFER
FIGURE 1

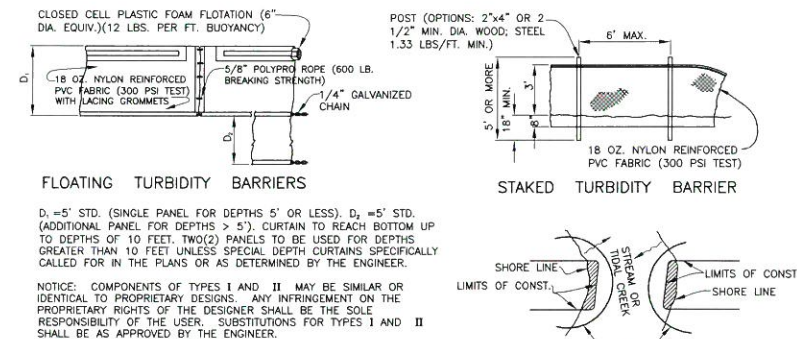


NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

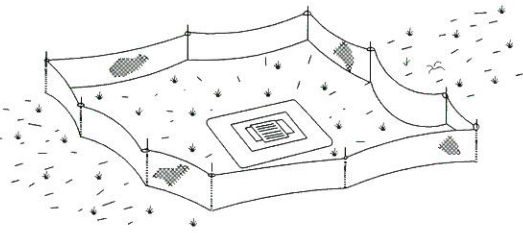
TYPICAL SILT FENCE
FIGURE 2



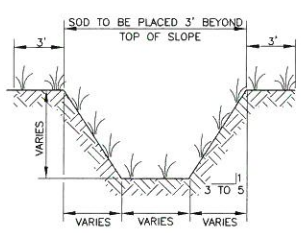
TYPICAL BALE SILT BARRIER
FIGURE 3



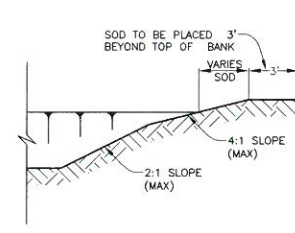
TURBIDITY BARRIERS
FIGURE 4



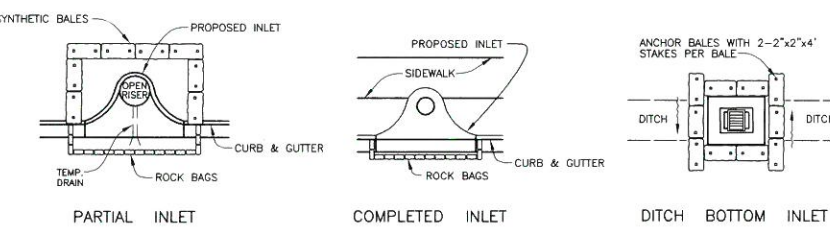
TYPE III SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS
STAKED SILT BARRIER OR SILT FENCE
PROTECTION AROUND DITCH BOTTOM INLETS
FIGURE 8



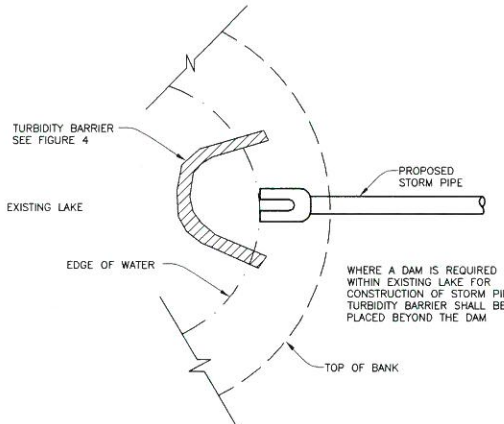
TYPICAL SWALE SECTION
FIGURE 5



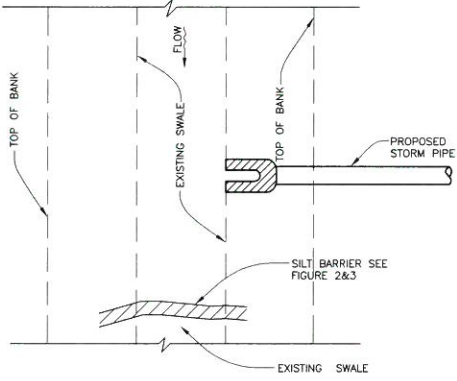
TYPICAL RETENTION/DETENTION POND SECTION
FIGURE 6



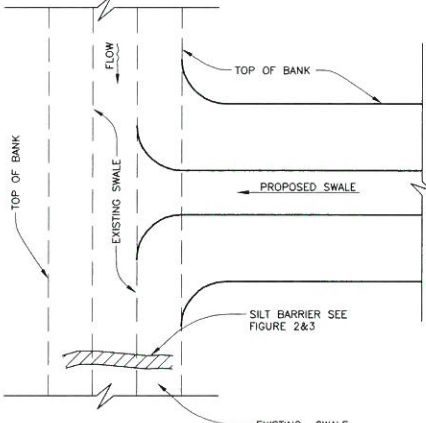
SYNTHETIC BALE PROTECTION AROUND
INLETS OR SIMILAR STRUCTURES
FIGURE 7



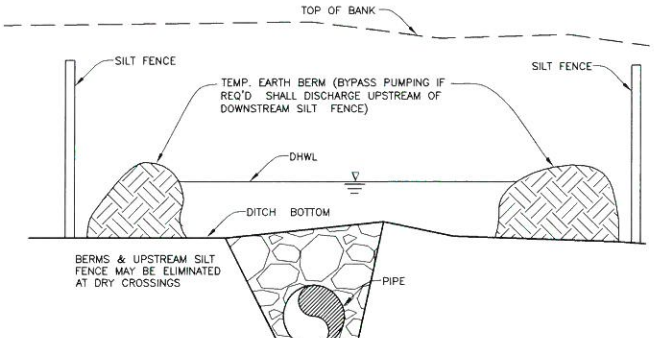
TURBIDITY BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING LAKE
FIGURE 9



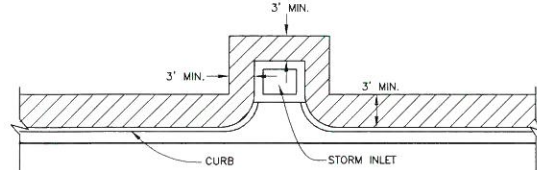
SILT BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING SWALE
FIGURE 10



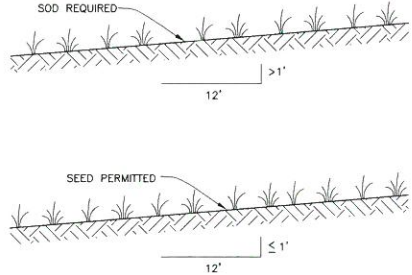
SILT BARRIER AT CONNECTION
OF SWALE TO EXISTING SWALE
FIGURE 11



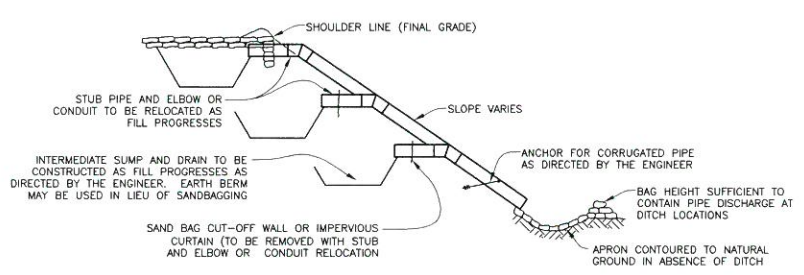
UNDERGROUND PIPE CROSSING
FIGURE 12



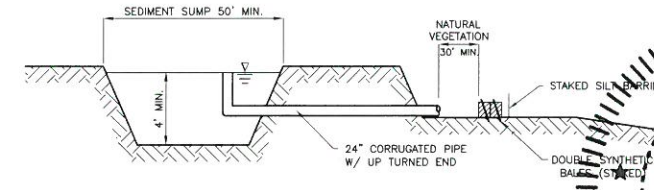
SOD ALONG CURB
AND AROUND INLET
FIGURE 14



GRASS SLOPES
FIGURE 13



SECTION AA
TEMPORARY SLOPE DRAIN
FIGURE 15



SEDIMENT SUMP SECTION
FIGURE 16

NOTE:
REFERENCE THE FDOT DESIGN STANDARDS
LATEST EDITION FOR ALL TEMPORARY
EROSION CONTROL MEASURES.

Professional Engineer Seal for Scott A. Max, State of Florida, License No. 13284. The seal includes the text 'SCOTT A. MAX', 'LICENSED PROFESSIONAL ENGINEER', 'STATE OF FLORIDA', and 'No. 13284'. It also includes a table for project details.

REVISION	DESCRIPTION	DATE
NO.		

PROJECT #	N/A
SURVEY #	#####
SEC./TWN./RGE	#####
DATE	11/17/17
DESIGNED	SM
CHECKED	SM

Signature & Date