

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
CONTRACT PLANS

FINANCIAL PROJECT ID 431734-1-72-09  
ORANGE COUNTY (75050000)  
STATE ROAD NO. 50

INDEX OF ROADWAY PLANS

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PROJECT LOCATION  
SPRING LAKE OUTFALL  
SR 50 MP 15.612

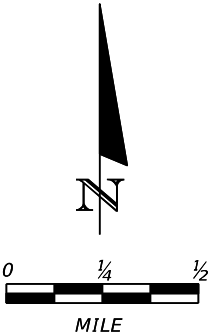
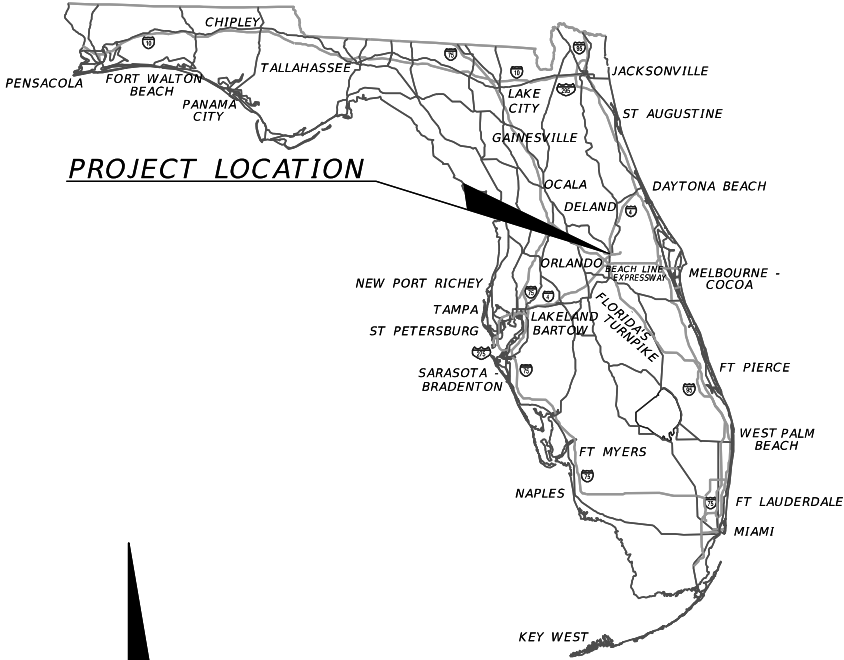
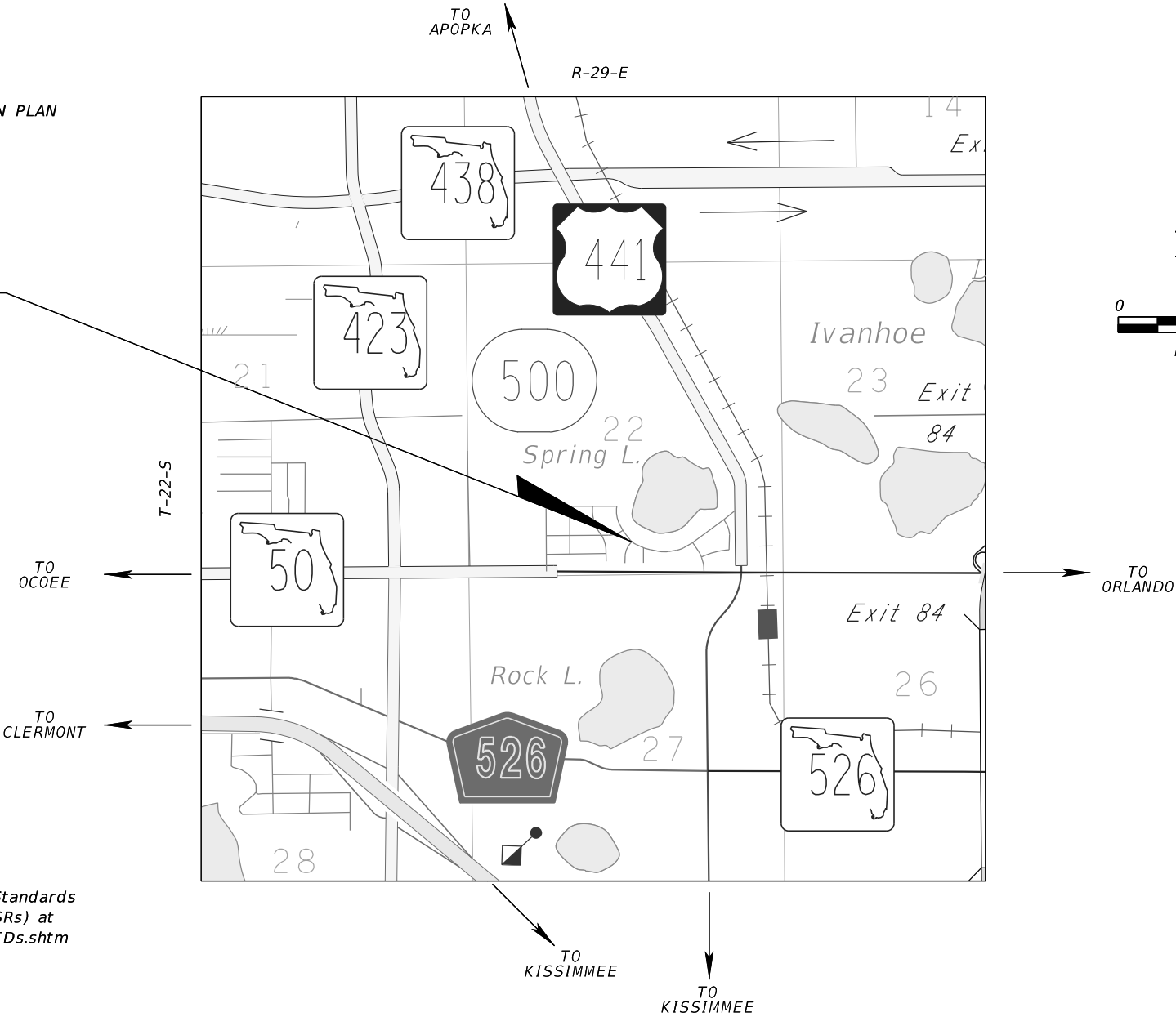
GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY 2017-2018 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website: <http://www.fdot.gov/roadway/DS/18/STDs.shtm>

APPLICABLE DSRs: N/A

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2017 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks/>



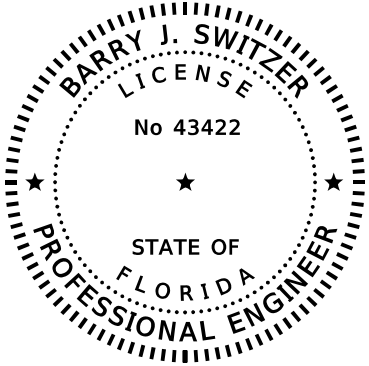
ROADWAY PLANS  
ENGINEER OF RECORD:

BARRY J. SWITZER, P.E.  
P.E. NO.: 43422  
HNTB CORPORATION  
610 CRESCENT EXECUTIVE CT  
SUITE 400  
LAKE MARY, FL 32746  
(407) 805-0355  
CONTRACT No.: C-9L51  
VENDOR No.: VF431623092001  
CERTIFICATE OF AUTHORIZATION No.: 6500

FDOT PROJECT MANAGER:

RAUL ARTUZ

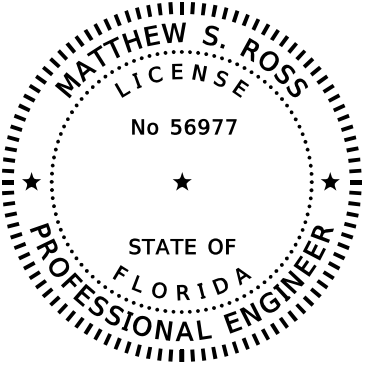
CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
E5U46	18	1



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BARRY J. SWITZER, P.E.  
P.E. LICENSE NUMBER 43422  
HNTB CORPORATION  
610 CRESCENT EXECUTIVE CT, SUITE 400  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION 6500



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MATTHEW S. ROSS, P.E.  
P.E. LICENSE NUMBER 56977  
HNTB CORPORATION  
610 CRESCENT EXECUTIVE CT, SUITE 400  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION 6500

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
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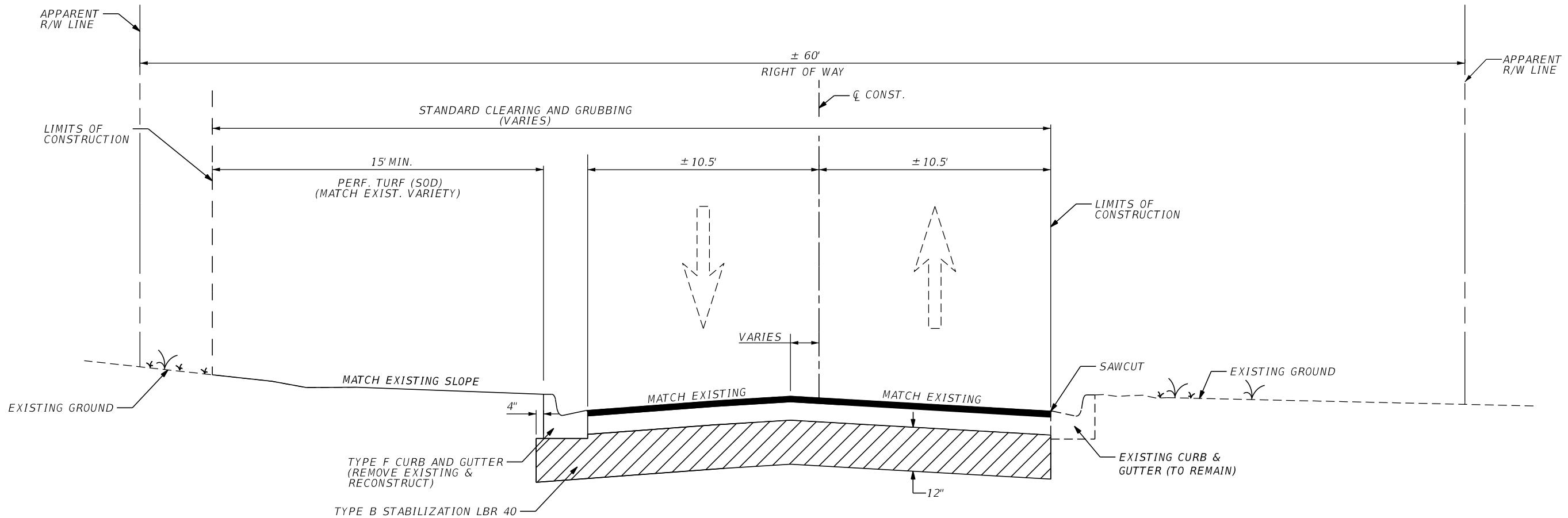
ROADWAY PLANSROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
4	TYPICAL SECTION
5	PROJECT NOTES

REVISIONS				HNTB CORPORATION MATTHEW S. ROSS, P.E. FL REGISTRATION NO. 56977 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 50	ORANGE	431734-1-72-09		2

SUMMARY OF PAY ITEMS			
0101- 1-	MOBILIZATION	LS	1
0102- 1-	MAINTENANCE OF TRAFFIC	(LS)	1
0104- 10- 3	SEDIMENT BARRIER	LF	52
0104- 11-	FLOATING TURBIDITY BARRIER	LF	30
0104- 18-	INLET PROTECTION SYSTEM	EA	2
0110- 1- 1	CLEARING & GRUBBING	(LS)	1
0160- 4-	TYPE B STABILIZATION	SY	77
0285-701-	OPTIONAL BASE, BASE GROUP 01	SY	66
0337- 7- 83	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	5.4
0425- 1-442	INLETS, CURB, TYPE J-4, >10'	EA	1
0425- 2- 41	MANHOLES, P-7, <10'	EA	1
0430-175-124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	4
0430-175-130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	3
0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	17
0520- 3-	VALLEY GUTTER- CONCRETE	LF	7
0570- 1- 2	PERFORMANCE TURF, SOD	SY	61
0700- 1- 50	SINGLE POST SIGN, RELOCATE	AS	2
0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS	1

REVISIONS				HNTB CORPORATION BARRY J. SWITZER, P.E. FL REGISTRATION NO. 43422 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF PAY ITEMS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 50	ORANGE	431734-1-72-09		3



**TYPICAL SECTION**  
**SPRING LAKE DRIVE**  
**STA. 201+95.00 TO STA. 202+23.00**

**RECONSTRUCTION**

OPTIONAL BASE GROUP 1 (TYPE B 12.5 ONLY) WITH  
 FRICTION COURSE FC-12.5 PG 76-22 (1 1/2")

DESIGN SPEED = 25 MPH

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 50	ORANGE	431734-1-72-09		4

jairorodriguez

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\\lkmw00\pmwork\Jobs\61794-FDOT DW Drainage(Maintenance)\TW0's\TW0\_2\_Spring Lake\_orlando\42917627205\roadway\TYP SRD01.DGN

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SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
101 1	MOBILIZATION	1			
102 1	MAINTENANCE OF TRAFFIC	1			
110 1 1	CLEARING AND GRUBBING	1			

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES									
LOCATION	SIDE	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.		0104 10 3		0104 11		0104 18			
		LF		LF		EA			
		P	F	P	F	P	F		
201+85.27 TO 202+28.14	LT	52							
202+06.35	LT					1			
202+24.16	RT					1			
202+97.00 TO 203+23.00	RT			30					
SUB-TOTAL :		52		30		2			
TOTAL :		52		30		2			

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 50	ORANGE	431734-1-72-09		SQ-1

SUMMARY OF REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNITS	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.			P	F	P	F		
700 1 50	SINGLE POST SIGN, RELOCATE	201+96.84 TO 202+16.13	LT	AS	2		2			

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.			P	F	P	F		
160 4	TYPE B STABILIZATION	201+91.51 TO 202+23.00	LT/RT	SY	77		77			
285 701	OPTIONAL BASE, BASE GROUP 01	201+91.51 TO 202+23.00	LT/RT	SY	66		66			
337 7 83	ASPH CONC FC, TRAFFIC C, FC-12.5, PG76-22	201+91.51 TO 202+23.00	LT/RT	TN	5.4		5.4			

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS															
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION			SIDE	UNIT	QUANTITY					TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.					GROSS LENGTH	DEDUCTIONS		NET LENGTH		P	F		
								TYPE	LENGTH	P	F				
520-1-10	CONCRETE CURB & GUTTER, TYPE F	201+91.51	TO	201+98.41	LT	LF	6.9			7		7			
		202+12.59	TO	202+23.00	LT	LF	10.4	CI Ty4	1	10		10			
520-3	CONCRETE VALLEY GUTTER	201+95.00	TO	202+12.59	LT	LF	17.6	CI Ty4	11	7		7			

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SQ-2
					SR 50	ORANGE	431734-1-72-09		

SUMMARY OF DRAINAGE STRUCTURES													
QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION		BARRELS	STORMSEWER PIPE		CURB INLET	MANHOLE	REMARKS		
							ROUND SHAPE						
							430 175 124	430 175 130				425 1 442	425 2 41
							24"	30"				J-4 >10'	P-7 <10'
							FT	FT				EA	EA
P	S-126A	202+08.00	LT	Pipe, CI, Pipe		1	4	3	1				
F													
P	S-126B	202+10.20	LT	Manhole		1				1			
F													
Sheet Summary				P Total			4	3	1	1			
				F Total									
Final Summary				P Total			4	3	1	1			
				F Total									

425-1-442 INCLUDES COST OF PRE-FABRICATED UNIT (TREATMENT DEVICE), STRUCTURE BOTTOM, INLET TOP, DELIVERY AND INSTALLATION.  
INSTALLATION INCLUDES GROUTING THE INFLOW AND OUTFLOW PIPES AND SETTING THE INLET TOP.

SUMMARY OF PERFORMANCE TURF						
LOCATION	SIDE	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS	
		0570	1 2			
STA. TO STA.		SY				
		P	F			
201+91.51 TO 202+23.00	LT	61		St. Augustine / Match in kind		
SUB-TOTAL:		61				
TOTAL:		61				

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DATE	DESCRIPTION		DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SQ-3
					SR 50	ORANGE	431734-1-72-09		

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ROADWAY NOTES

1.

THE BENCHMARK DATUM USED FOR THE PLANS IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2.

THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESINGATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BE VERIFIED.
3.

UTILITY CONTACTS:

UTILITY AGENCY OWNER

TELEPHONE NUMBER

AT&T FLORIDA

(407) 351-8180

CHARTER COMMUNICATIONS

(407) 532-8509

CITY OF ORLANDO

(407) 971-5648

ORLANDO UTILITIES COMMISSION (OUC)

(407) 434-2303

TECO PEOPLES GAS

(407) 420-2678
4.

PROVIDE A MINIMUM 2-WEEK NOTICE TO OUC WATER FOR SCHEDULING AND MOBILIZATION. CONTACT LUIS FEBRES 407-434-2533 LFEBRES@OUC.COM
5.

A "SPECIAL EVENT" IS DEFINED AS A FESTIVAL, FAIR, RUN, RACE, MOTORCADE, PARADE, CIVIC ACTIVITY, CULTURAL ACTIVITY, CHARITY OR FUND DRIVE, SPORTING EVENT, OR SIMILAR ACTIVITY THAT COULD BE NEGATIVELY IMPACTED AS A RESULT OF THE WORK. SPECIAL EVENTS INCLUDE, BUT ARE NOT LIMITED TO, MAGIC BASKETBALL GAMES, AND EVENTS AT THE CAMPING WORLD STADIUM, AMWAY CENTER AND THE DR. PHILLIPS CENTER FOR THE PERFORMING ARTS.
6.

EXISTING TOPOGRAPHICAL FEATURES ARE BASED ON LIMITED SURVEY DATA AND INFORMATION OBTAINED FROM EXISTING AS-BUILT PLANS. APPARENT RIGHTS OF WAY, EASEMENTS AND PARCEL LINES SHOWN IN THE PLANS ARE APPROXIMATE AND HAVE NOT BEEN SURVEYED OR VERIFIED.

DRAINAGE NOTES

1.

EXISTING DRAINAGE STRUCTURES TO REMAIN UNLESS OTHERWISE NOTED.
2.

AN OUTFALL EASEMENT EXISTS PER THE "OUTFALL DITCH EASEMENT DEED" AS ESTABLISHED IN DEED BOOK 753 PAGE 190, DATED SEPT. 17, 1947, DEED BOOK 795 PAGE 84, DATED SEPT. 18, 1947, AND PLAT OF SURVEY FOR LOTS 2 AND 3, BLOCK 3, COUNTRY CLUB ESTATES REPLAT DATED SEPT. 12, 1947 (RECORDED IN PLAT BOOK "Q" PAGE 70, PUBLIC RECORDS OF ORANGE COUNTY, FL.). ACCESSIBLITY HAS NOT BEEN VERIFIED. ALTERNATE WATER ACCESS TO SPRING LAKE VIA FDOT RIGHT OF WAY ON SR 500 (US 441).

TEMPORARY TRAFFIC CONTROL NOTES

1.

MAINTAIN EXISTING POSTED SPEED LIMITS AT ALL TIMES:

RIO GRANDE AVENUE - 25 MPH

SPRING LAKE DRIVE - 25 MPH
2.

LANE CLOSURES ARE RESTRICTED TO ACTIVE WORK PERIODS.
3.

CONSTRUCTION ACTIVITIES ARE LIMITED TO THE DAYTIME HOURS OF 8:00 AM TO 5:00 PM.

TEMPORARY TRAFFIC CONTROL PHASE NOTES

PHASE I: THE INTENT OF THIS PHASE IS TO EXCAVATE THE ROADWAY, EXPOSE THE EXISTING PIPE, CONSTRUCT THE DRAINAGE STRUCTURES AND RESTORE THE ROADWAY AND RIGHT OF WAY.

1.

UTILIZE INDEX 602 TO INSTALL THE REQUIRED EROSION CONTROL MEASURES.
2.

INSTALL THE ADVANCED WARNING SIGNS AND TRAFFIC CONTROL DEVICES PER INDEX 605.
3.

PROVIDE FLAGGERS PER INDEX 600 TO REGULATE TRAFFIC THROUGH THE WORK ZONE UNTIL THE CLOSURE IS REQUIRED.
4.

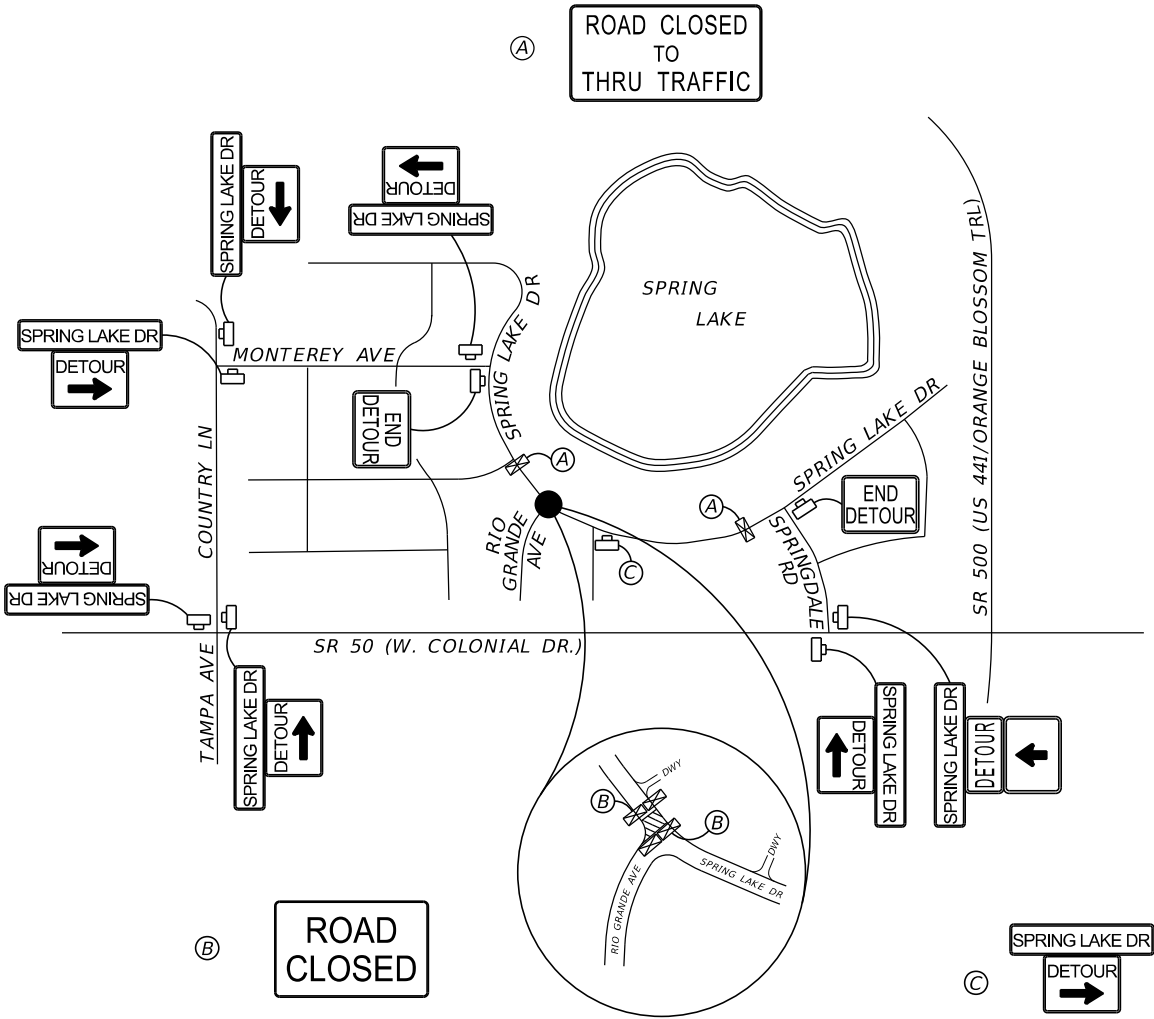
INSTALL TEMPORARY DETOUR PER THE TEMPORARY TRAFFIC CONTROL DETOUR DETAIL. CLOSURE IS LIMITED TO FIVE CONSECUTIVE DAYS MAXIMUM.
5.

CONSTRUCT THE PROPOSED DRAINAGE STRUCTURE AND RESTORE THE WORK AREA.
6.

THIS COMPLETES CONSTRUCTION.

DETAIL LEGEND:

- WORK ZONE SIGN
- TYPE III BARRICADE
- WORK ZONE



TEMPORARY TRAFFIC CONTROL DETOUR DETAIL  
NTS

REVISIONS				HNTB CORPORATION MATTHEW S. ROSS, P.E. FL REGISTRATION NO. 56977 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 50	ORANGE	431734-1-72-09		5

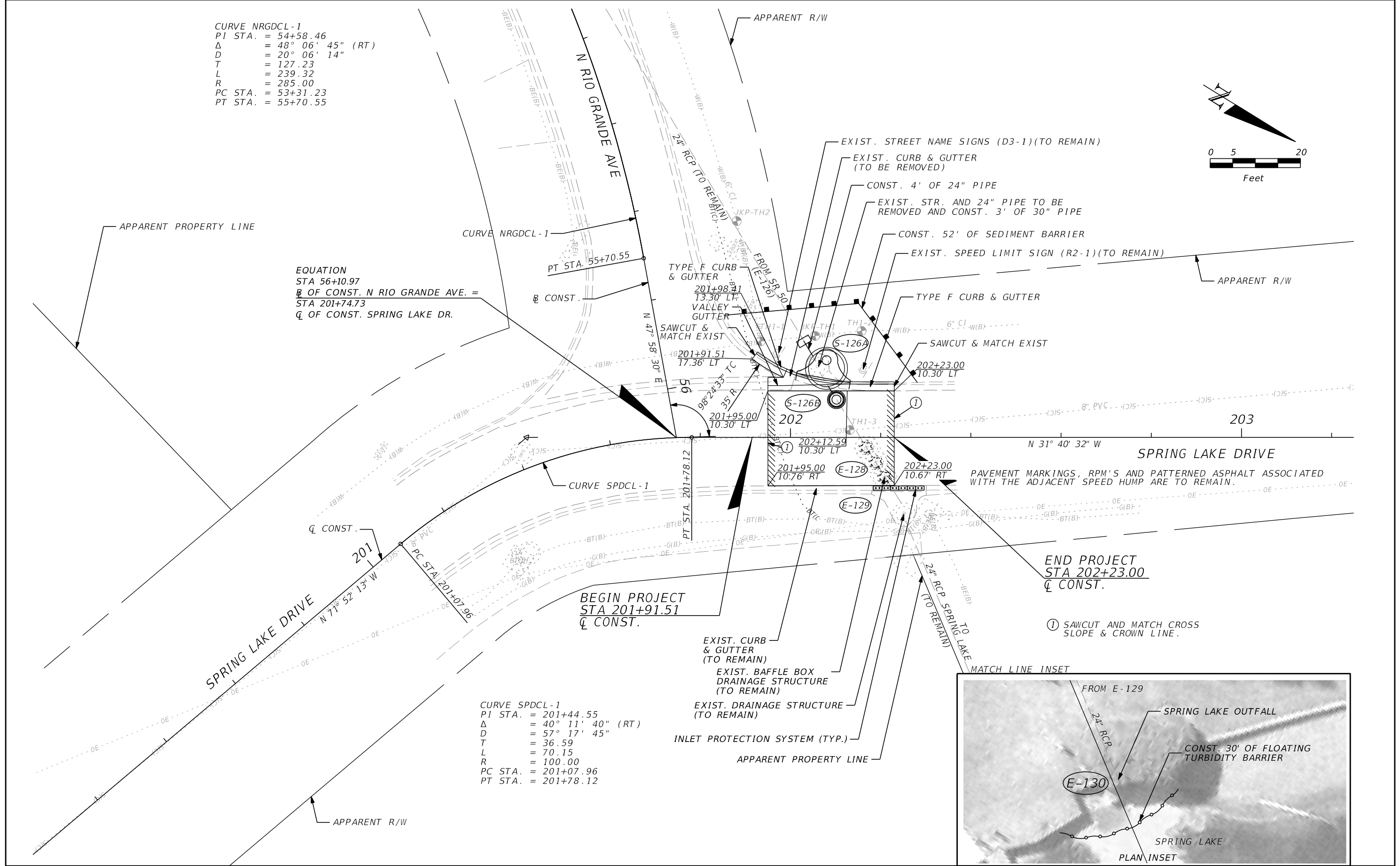
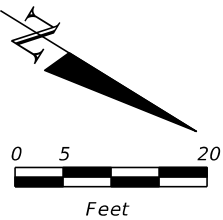
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CURVE NRGDCL-1  
PI STA. = 54+58.46  
Δ = 48° 06' 45" (RT)  
D = 20° 06' 14"  
T = 127.23  
L = 239.32  
R = 285.00  
PC STA. = 53+31.23  
PT STA. = 55+70.55

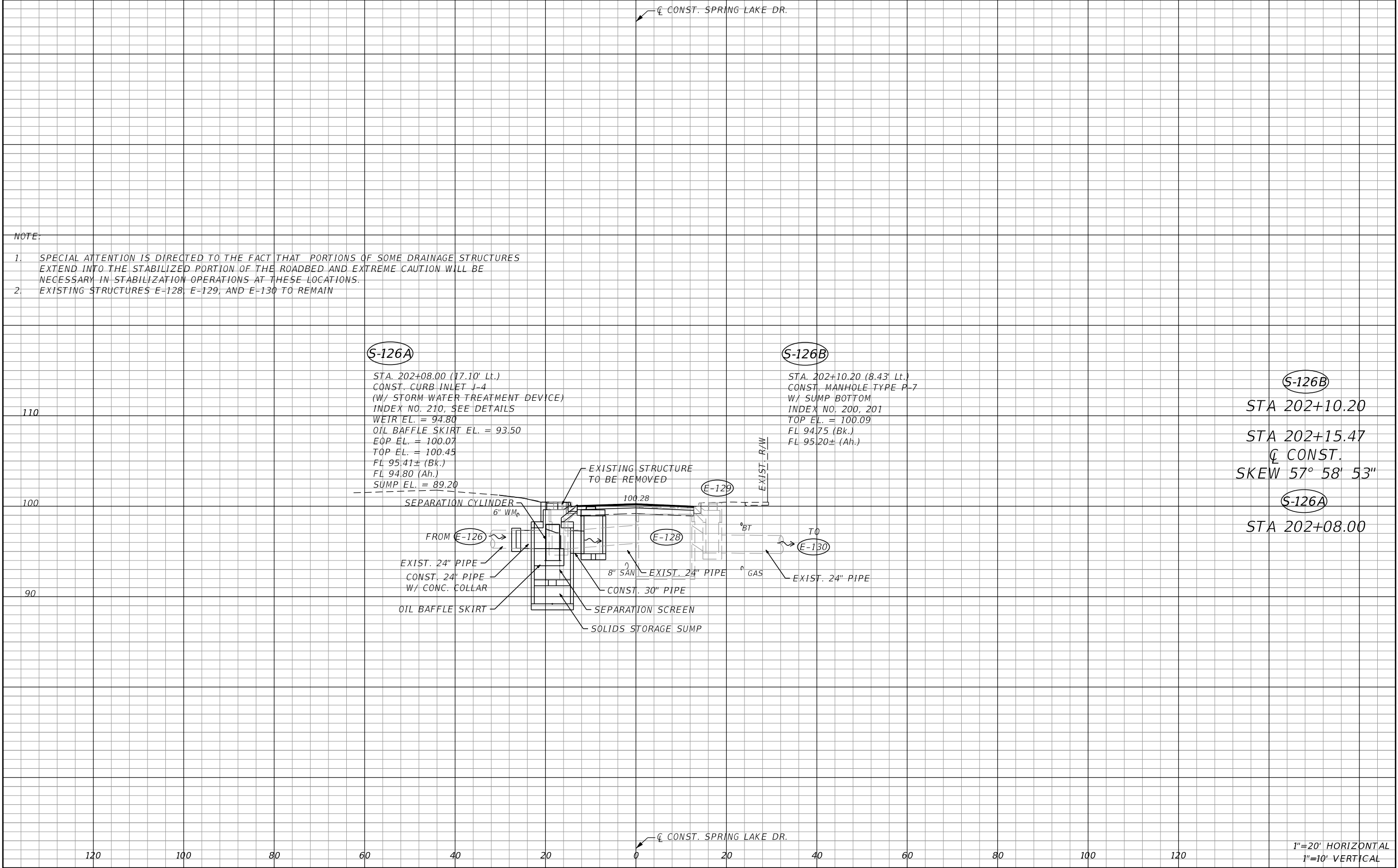
EQUATION  
STA 56+10.97  
Q OF CONST. N RIO GRANDE AVE. =  
STA 201+74.73  
Q OF CONST. SPRING LAKE DR.

CURVE SPDCL-1  
PI STA. = 201+44.55  
Δ = 40° 11' 40" (RT)  
D = 57° 17' 45"  
T = 36.59  
L = 70.15  
R = 100.00  
PC STA. = 201+07.96  
PT STA. = 201+78.12



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 50	ORANGE	431734-1-72-09		

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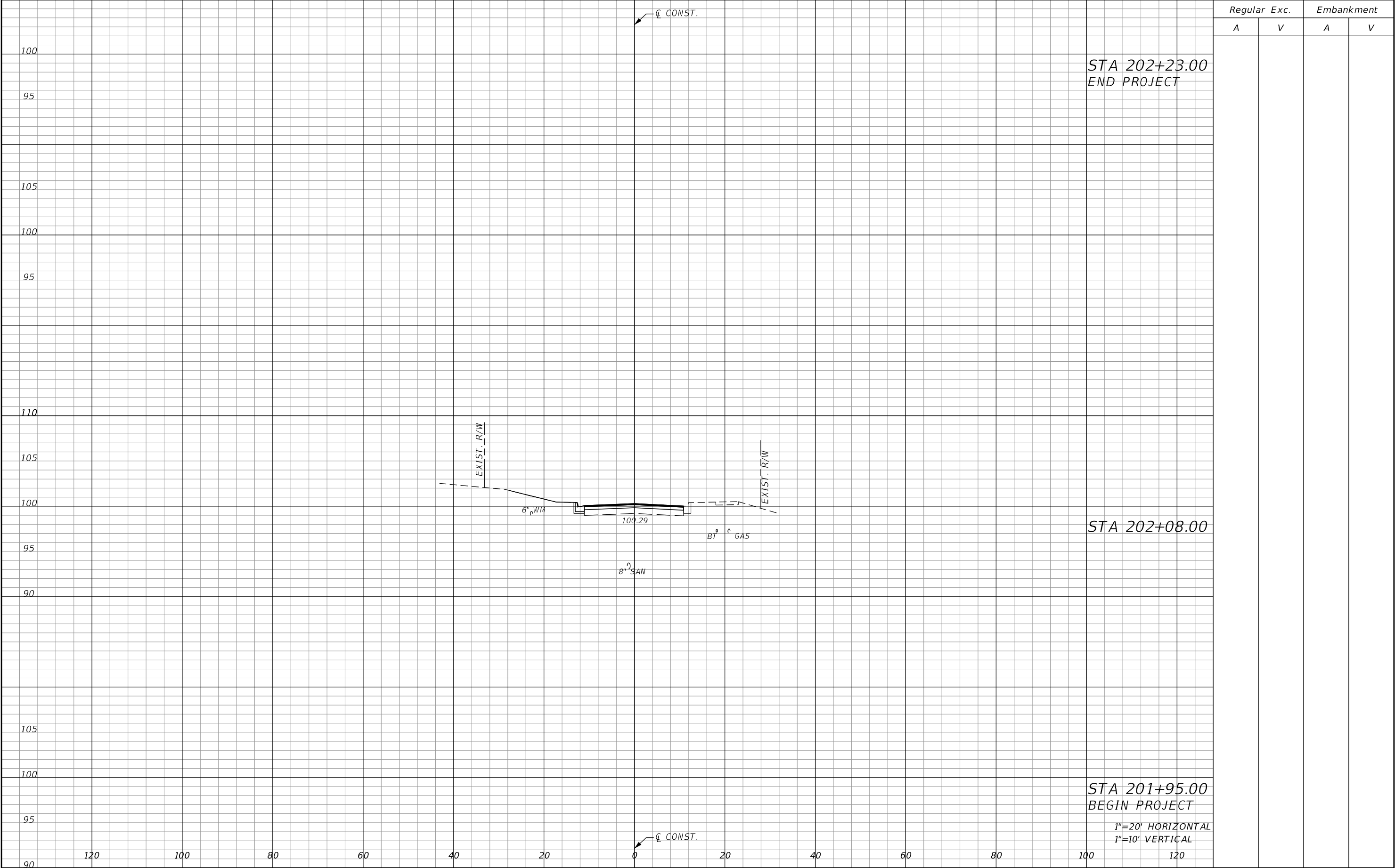


- NOTE:
- 1. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
  - 2. EXISTING STRUCTURES E-128, E-129, AND E-130 TO REMAIN

S-126B  
STA 202+10.20  
STA 202+15.47  
CONST.  
SKEW 57° 58' 53"  
S-126A  
STA 202+08.00

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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DATE	DESCRIPTION	DATE	DESCRIPTION									
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
					SR 50	ORANGE	431734-1-72-09					8

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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

I. SITE DESCRIPTION:

(1) NATURE OF CONSTRUCTION ACTIVITY:

THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) PROPOSES THE INCORPORATION OF A STORM WATER TREATMENT DEVICE CURB INLET STRUCTURE, ONE ADDITIONAL MANHOLE STRUCTURE AND UPGRAIDING A PIPE RUN UPSTREAM OF AN EXISTING BAFFLE STRUCTURE. THIS PROJECT IS LOCATED IN ORANGE COUNTY WITHIN THE CITY OF ORLANDO; THE SYSTEM RUNS ALONG SR 50 (W. COLONIAL DR.) AND N RIO GRANDE AVE. AND DISCHARGES INTO THE SOUTH WEST CORNER OF SPRING LAKE. THE PROPOSED IMPROVEMENTS ARE LOCATED AT THE INTERSECTION OF SPRING LAKE DR. AND N RIO GRANDE AVE.

(2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

- (a) THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.
- (b) THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.
- (c) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE FDOT STANDARD INDEXES 104 AND 105 AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).
- (d) THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES FROM THE CONTRACTOR.

(3) GENERAL NOTES:

- (a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
- (b) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
- (c) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH/SWALE CHECK DAMS DURING CONSTRUCTION.
- (d) PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.
- (e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
- (f) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
- (g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
- (h) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.

(4) AREA ESTIMATES:

TOTAL BASIN AREA: 48.36 ACRES (FROM ORIGINAL DRAINAGE MAPS).  
TOTAL AREA TO BE DISTURBED: 0.03 ACRES.

(5) RUNOFF COEFFICIENTS BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION:

RUNOFF COEFFICIENT FOR: GRASSED AREAS: C=0.20  
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95  
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: VARIES C=0.40 TO 0.60

WEIGHTED RUN-OFF COEFFICIENT:

BEFORE: Cw (B) = 0.70  
DURING: Cw (D) = 0.50  
AFTER: Cw (A) = 0.70

THE RUN-OFF COEFFICIENT DURING CONSTRUCTION, Cw (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION.

- (6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:  
THE SOILS ARE MODERATELY WELL DRAINED, WITH VERY LOW RUNOFF CLASSIFICATION AND HAVE LOW WATER TABLE DEPTH. THESE SOILS HAVE MODERATELY LOW TO HIGH CAPACITY TO TRANSMIT WATER (0.06 TO 1.98 IN/HR). THE ROADWAY SOIL SURVEY WAS NOT CONTAINED IN THE CONSTRUCTION PLANS.

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
24 - MILLHOPPER-URBAN FINE SAND (0 TO 5% SLOPES) (53%-40%)	A	> 3.5'
48 - TAVARES-URBAN FINE SAND (5 TO 12% SLOPES) (50%-40%)	A	> 3.5'
REFERENCE: USDA SOIL SURVEY OF ORANGE COUNTY FLORIDA		

(7) ESTIMATED DRAINAGE FLOW DIRECTION AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:

- (a) SITE MAP:

(8) RECEIVING WATERS:

THE PROJECT IS CONTAINED WITHIN THE HOWELL CREEK BASIN AS DEFINED BY SJRWMD (OPEN BASIN) AND IT IS NOT CONSIDERED AS AN OUTSTANDING FLORIDA WATER (OFW).

(9) THE OUTFALLS ARE 303(d) LISTED, IMPAIRED WATERS FOR PARAMETERS SUCH AS N/A

- (a) N/A N/A N/A

(10) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

DESCRIPTION	LATITUDE	LONGITUDE
SPRING LAKE (3080101)	N 28° 33' 16"	W 81° 24' 04"

(11) SURFACE WATER IMPACTS ARE ANTICIPATED WITHIN THE PROJECT LIMITS.

(12) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

- (a) EXISTING DRAINAGE FLOWS ARE TYPICALLY CONVEYED THROUGH STORM SEWER INLETS & PIPES, ALONG THE PROJECT.
- (b) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.
- (c) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. SEDIMENT CONTROL WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.
- (d) THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE U.S.

II. CONTROLS:

SEDIMENT AND EROSION CONTROLS

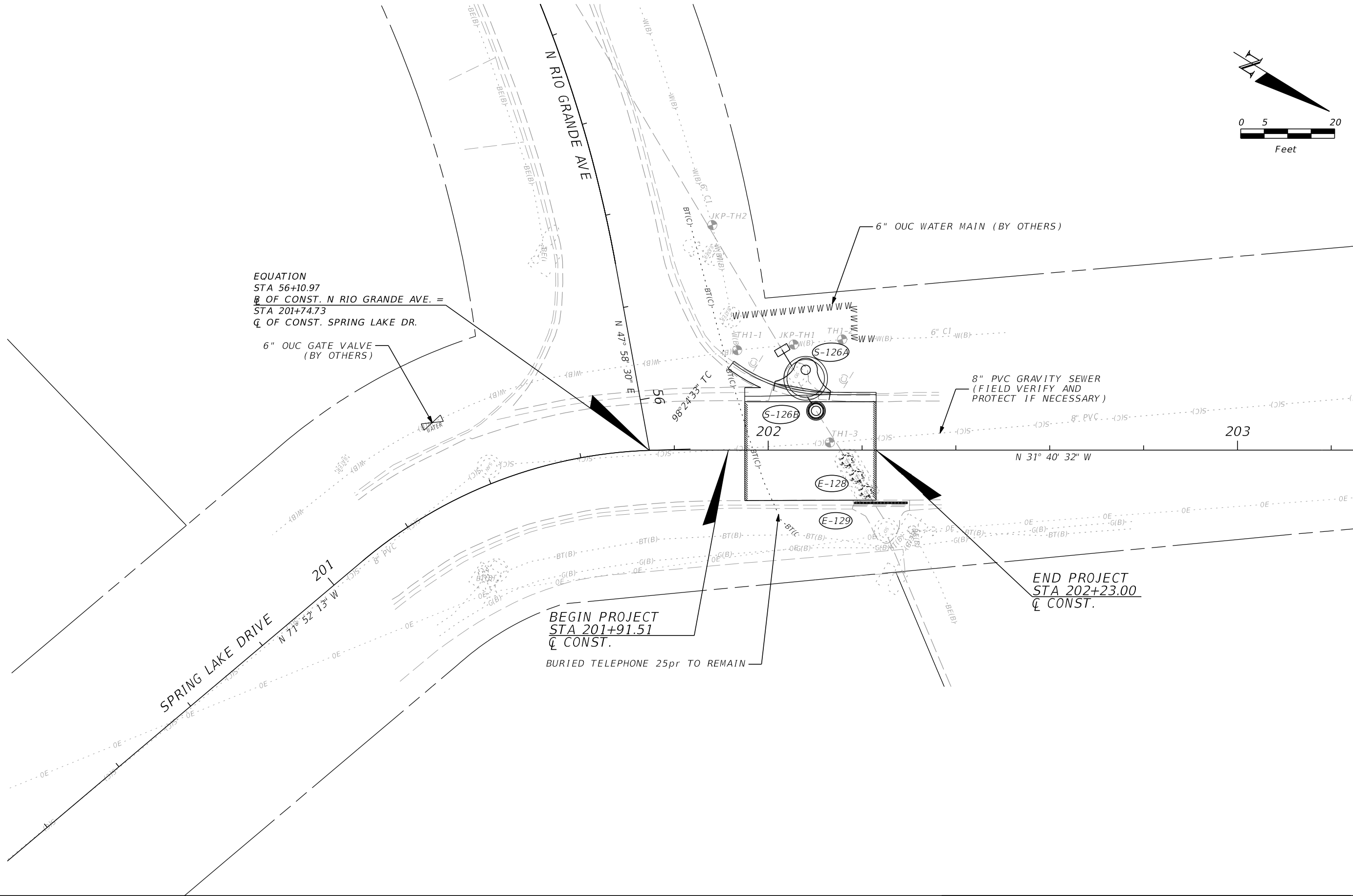
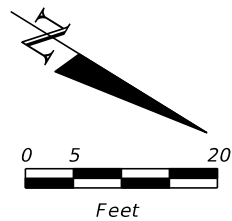
(1) WATER QUALITY MONITORING:

- (a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.
- (b) THE PROJECT ADMINISTRATOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NEPHELOMETRIC TURBIDITY UNITS (NTU) ABOVE BACKGROUND OR GREATER THAN 0 NTU ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIROMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE PROJECT ADMINISTRATOR PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU'S ABOVE BACKGROUND OR LESS THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ADMINISTRATOR.

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<div>(2) STABILIZATION PRACTICES:</div> <div><div><div>(a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BEST MANAGEMENT PRACTICES (BMP) AND THE USE OF ROLLED EROSION CONTROLLED PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&amp;SC MANUAL).</div><div>(b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.</div><div>(c) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.</div><div>(d) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.</div><div>(e) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.</div></div><div>(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL</div><div><div>(a) ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS)</div><div><div>PURPOSE: TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.</div><div><div>(1) USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES. COULD INCLUDE NATURAL OR SYNTHETIC FIBER MATS, PLASTIC SHEETING OR NETS.</div><div>(2) USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED. COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA, ON FILL SLOPES OR IN DITCHES.</div><div>(3) USED TO STABILIZE DRAINAGE CHANNELS. CONSULT E&amp;SC MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION.</div></div></div><div>(b) RUNOFF CONTROL STRUCTURE (TEMPORARY SLOPE DRAIN)</div><div><div>PURPOSE: TO PROTECT HILLSIDE SURFACES AGAINST EROSION DUE TO CONCENTRATED FLOW OF RUNOFF WATER.</div><div><div>(1) USED ON FILL SLOPES AND CUT SLOPES TO REDUCE SEDIMENT TRANSPORT AND COULD INCLUDE TEMPORARY SLOPE DRAINS, GRASS-LINED CHANNELS, ROCK-LINED CHANNELS AND CHECK DAMS.</div><div>(2) RUNOFF CONTROL STRUCTURES TYPICALLY DISCHARGE TO A SEDIMENT BASIN.</div></div></div><div>(c) SEDIMENT BASIN (CONTAINMENT SYSTEM)</div><div><div>PURPOSE: A CONTAINMENT SYSTEM IS DESIGNED TO DETAIN AN ADEQUATE VOLUME OF RUNOFF, REDUCE THE VELOCITY OF FLOW THROUGH THE SYSTEM, ALLOW FOR SETTLEMENT OF SUSPENDED SOLIDS AND REGULATE THE DISCHARGE RATE FROM THE SEDIMENT BASIN.</div><div><div>(1) SEDIMENT BASINS MUST BE PLACED IN STRATEGIC LOCATIONS WITHIN THE ACTIVE AREAS OF CONSTRUCTION. CONTRIBUTING AREA AND SIZE OF TARGET SOIL PARTICLE WILL DICTATE WHETHER THE SEDIMENT BASIN WILL BE TYPE 1, TYPE 2 OR TYPE 3 SYSTEM.</div><div>(2) THE USE OF SMALLER PRE-SEDIMENTATION BASINS USED IN CONJUNCTION WITH LARGER PERMANENT RETENTION/DETENTION PONDS ARE EFFECTIVE IN CAPTURING LARGER VOLUMES OF SEDIMENTS. THIS TECHNIQUE REQUIRES PERIODICALLY SCHEDULED REMOVAL OF THE ACCUMULATED SEDIMENTS.</div></div></div><div>(d) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP))</div><div><div>PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.</div></div></div><div><div><div>(1) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.</div><div>(2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.</div><div>(3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.</div></div><div>(e) FLOATING TURBIDITY BARRIER</div><div><div>PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.</div><div><div>(1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.</div><div>(2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (&lt;3.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.</div><div>(3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5-5.0 FT. PER SECOND), MODERATE WIND AND WAVE ACTION</div><div>(4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.</div><div>(5) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.</div><div>(6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS &gt; 5.0'.</div></div></div><div>(f) STAKED TURBIDITY BARRIER</div><div><div>PURPOSE: THIS ITEM IS COMMONLY USED IN AREAS WHERE CONTINUOUS CONSTRUCTION ACTIVITIES CHANGE THE NATURAL CONTOURS AND DRAINAGE RUNOFF PATTERNS.</div><div><div>(1) COMMONLY USED IN LAKES AND STREAMS AS A SEDIMENT CONTAINMENT SYSTEM. SHOULD NOT BE USED WHERE WATER CURRENTS MOVE THE CURTAIN AND DISLODGE COLLECTED SEDIMENTS.</div><div>(2) MAXIMUM DEPTH OF PANEL IS 3'-8".</div><div>(3) POST MUST BE A MINIMUM LENGTH OF 5.0' AND A MINIMUM OF 10" OF FABRIC MUST BE IMBEDDED IN THE GROUND.</div></div></div><div>(g) INLET PROTECTION SYSTEM</div><div><div>PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.</div><div><div>(1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.</div><div>(2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.</div><div>(3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.</div></div></div><div>(h) SOIL TRACKING PREVENTION DEVICE</div><div><div>PURPOSE: TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY.</div><div><div>(1) USE ONE DEVICE PER MILE WITH A MINIMUM OF TWO PER PROJECT.</div><div>(2) USE ADDITIONAL DEVICES FOR CONSRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT OF WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE.</div><div>(3) RRR PROJECTS SHOULD BE HANDLED ON A CASE BY CASE BASIS.</div></div></div></div></div>										
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