

SHEET NO.

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1 - A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
2 THRU 2-E	SPECIAL DETAILS
3	SUMMARY OF QUANTITIES
4	PLAN SHEET
EC-1 THRU EC-2	EROSION CONTROL PLANS
TMP-1	TRAFFIC MANAGEMENT PLANS

2012 ROADWAY ENGLISH STANDARD DRAWINGS

THE FOLLOWING STANDARDS AS THEY APPEAR IN 'ROADWAY STANDARD DRAWINGS' HIGHWAY DESIGN BRANCH - N.C. DEPARTMENT OF TRANSPORTATION - RALIEGH. N.C., DATED JANUARY 17, 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

DESCRIPTION STD NUMBER

CONCRETE BASE PAD FOR DRAINAGE STRUCTURES 840.00

GENERAL NOTES

NAME	DESCRIPTION
GRAD I NG	THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.
SUBSURFACE PLANS	NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

EROSION CONTROL NOTES

NAME	DESCRIPTION
DEWATERING	PUMP DISCHARGE HOSE SHALL BE PLACED INTO THE LOWER JUNCTION BOX THROUGH THE MANHOLE AND DISCHARGE OUT OF THE EXISTING CONCRETE PIPE. PUMPING RATE SHALL BE AT A RATE LOW ENOUGH NOT TO PRODUCE A SCOUR CONDITION AT THE PIPE OUTLET OR ALONG THE OUTLET CHANNEL.
WATTLES	WATTLES ARE TO BE INSTALLED IN A MANNER PROVIDE MINIMAL AREA FOR CONSTRUCTION OF BUBBLER BOX. WATTLES SHOULD BE INSTALLED IN A MANNER TO AVOID OR MINIMIZE IMPACT TO VEGETATION. WATTLES SHALL NOT BE PLACED WITHIN THE COASTAL WETLANDS OR BELOW THE SPRING HIGH TIDE LINE.
	SEE EC SHEETS AND CONTRACT SPECIAL PROVISIONS FOR FURTHER DETAILS.

PROJECT	REFERENCE NO.	
R-	4436CF	

*S.U.E. = Subsurface Utility Engineering

BOUNDARIES AND PROPERTY:

CONVENTIONAL PLAN SHEET SYMBOLS

State Line -	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	<u></u>
Property Corner	
Property Monument	ECM
Parcel/Sequence Number —	— <u>@</u>
Existing Fence Line	××××
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
	HP8
Known Soil Contamination: Area or Site —	
Potential Soil Contamination: Area or Site —	000
BUILDINGS AND OTHER CUL	000
Gas Pump Vent or U/G Tank Cap	
Sign ————————————————————————————————————	
Well	s
Small Mine	
Foundation ————————————————————————————————————	
Area Outline	
Cemetery ————————————————————————————————————	— [†]
Building	
School	
Church —	
Dam	
HYDROLOGY:	
Stream or Body of Water ———————	
Hydro, Pool or Reservoir ————————————————————————————————————	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	•
	_>
Disappearing Stream ————————————————————————————————————	-0
	— ¥

RAILROADS:	
Standard Gauge	CSX TRANSPORTATION
RR Signal Milepost	⊙ MILEPOST 35
Switch ———	SWITCH
RR Abandoned	
RR Dismantled	
RIGHT OF WAY:	
Baseline Control Point	•
Existing Right of Way Marker	\triangle
Existing Right of Way Line	
Proposed Right of Way Line	
Proposed Right of Way Line with Iron Pin and Cap Marker	⊕
Proposed Right of Way Line with Concrete or Granite RW Marker	8
Proposed Control of Access Line with Concrete C/A Marker	
Existing Control of Access	— (§) ——
Proposed Control of Access ——————————————————————————————————	
Existing Easement Line	E
Proposed Temporary Construction Easement -	
Proposed Temporary Drainage Easement —	TDE
Proposed Permanent Drainage Easement —	PDE
Proposed Permanent Drainage / Utility Easement-	DUE
Proposed Permanent Utility Easement ————	PUE
Proposed Temporary Utility Easement ————	TUE
Proposed Aerial Utility Easement ———————	AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	&
ROADS AND RELATED FEATURES	S:
Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	<u>C</u>
Proposed Slope Stakes Fill	<u> </u>
Proposed Curb Ramp	CR
Existing Metal Guardrail	
Proposed Guardrail —————	T T T
Existing Cable Guiderail	
Proposed Cable Guiderail	<u>n n n n</u>
Equality Symbol	•
Pavement Removal	
VEGETATION:	
Single Tree	&
Single Shrub	¢
Hedge	
Woods Line	<u>~(;;~(;;~(;;~(;;~(;;~(;;</u>

Orchard ————	හි හි හි හි
Vineyard ————————————————————————————————————	Vineyard
EXISTING STRUCTURES:	
WAJOR: Bridge, Tunnel or Box Culvert —————	COVIC
Bridge Wing Wall, Head Wall and End Wall –) conc *** (
MINOR: Head and End Wall	CONC HW
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	©
Storm Sewer —————	-
Siorni Sewer	•
UTILITIES:	
POWER:	
Existing Power Pole ————————————————————————————————————	•
Proposed Power Pole	6
Existing Joint Use Pole	-
Proposed Joint Use Pole	- ò -
Power Manhole —	(P)
Power Line Tower —	\boxtimes
Power Transformer —	Ø
U/G Power Cable Hand Hole	2
H-Frame Pole	•
Recorded U/G Power Line —————	P
Designated U/G Power Line (S.U.E.*)	
Designated U.G. Fower Line (3.0.L.)	·
TELEPHONE:	
Existing Telephone Pole	-
Proposed Telephone Pole ————	-0-
Telephone Manhole	Ф
Telephone Booth —	3
Telephone Pedestal —————	
Telephone Cell Tower —	
U/G Telephone Cable Hand Hole	
Recorded U/G Telephone Cable ———	
Designated U/G Telephone Cable (S.U.E.*)—	
Recorded U/G Telephone Conduit ———	
Designated U/G Telephone Conduit (S.U.E.*)	
Recorded U/G Fiber Optics Cable ———	
Designated U/G Fiber Optics Cable (S.U.E.*)	
pesignated we truet oblice cante (2.0.E.)	, . .

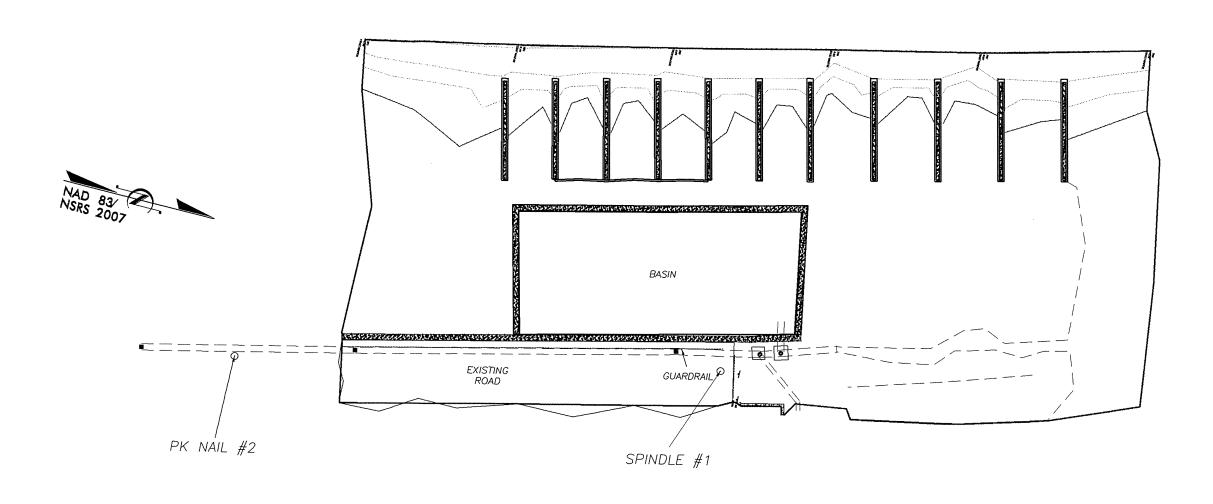
WATER:	
Water Manhole	w
Water Meter	0
Water Valve	8
Water Hydrant ——————	.
Recorded U/G Water Line	
Designated U/G Water Line (S.U.E.*)	
Above Ground Water Line	
TV:	
TV Satellite Dish	
TV Pedestal	
TV Tower —	\otimes
U/G TV Cable Hand Hole	HH
Recorded U/G TV Cable	Tv
Designated U/G TV Cable (S.U.E.*)	
Recorded U/G Fiber Optic Cable ————	TV F0
Designated U/G Fiber Optic Cable (S.U.E.*)—	TV F0
GAS:	
Gas Valve	\Diamond
Gas Meter	\Diamond
Recorded U/G Gas Line	
Designated U/G Gas Line (S.U.E.*)	
Above Ground Gas Line	A/G Gas
SANITARY SEWER:	
Sanitary Sewer Manhole —————	•
Sanitary Sewer Cleanout ———————	⊕
U/G Sanitary Sewer Line ——————	
Above Ground Sanitary Sewer ————	
Recorded SS Forced Main Line	
Designated SS Forced Main Line (S.U.E.*) —	
MISCELLANEOUS:	_
Utility Pole	•
Utility Pole with Base	⊡
Utility Located Object	•
Utility Traffic Signal Box	[5]
Utility Unknown U/G Line	
U/G Tank; Water, Gas, Oil	<u> </u>
Underground Storage Tank, Approx. Loc. —	(UST)
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	↔
U/G Test Hole (S.U.E.*)	•
Abandoned According to Utility Records ——	AATUR
End of Information ————————————————————————————————————	E.O.I.

PROJECT REFERENCE NO. SHEET NO.

R-4436CF I-C

SURVEY CONTROL SHEET

NOTE: SURVEY COMPLETED USING NAD83 (NSRS 2007) AND DATUM NAVD 88





POINT	NORTH	<u>EAST</u>	ELEVATION	
SPINDLE #1	46781.4029	2148803.7761	14.78'	
PK NAIL #2	46632.5359	2148836.2111	8.50'	
PK NAIL #3	46534.7059	2148915.4011	7.05'	

LOCATION AND SURVEY PROVIDED TO HSP BY PRIVATE CONTRACTOR AS AN AS-BUILT SURVEY.
ORIGINAL FILES ARE AVAILABLE UPON REQUEST.

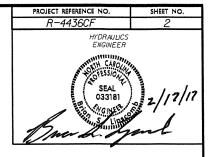
	MATERIALS		
Α	GEOTEXTILE FABRIC		
В	24" INLET PIPE		
С	6" PERFORATED HDPE D/W W/ FILTER SOCK		
D	6" SOLID HDPE D/W		
Е	SAND, SPEC. 2S OR COARSER		
F	CLASS B RIP RAP		

NOTE:

AND LENGTH OF UNDERDRAIN PIPES.

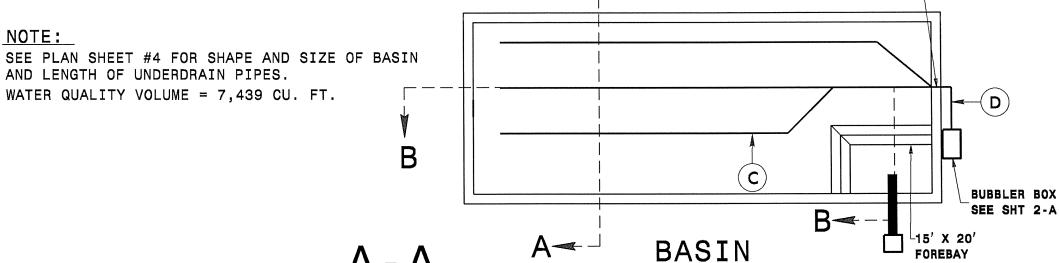
WATER QUALITY VOLUME = 7,439 CU. FT.

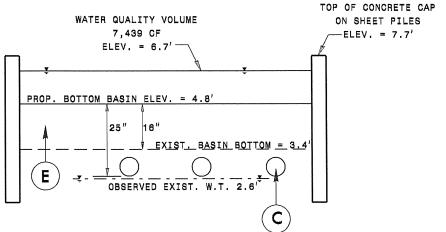




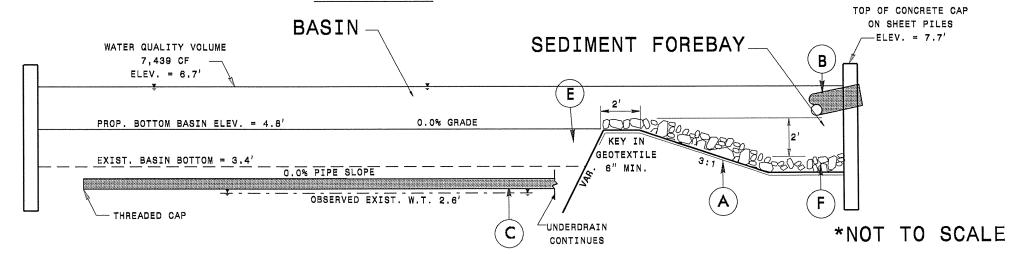
BASIN WALL CUT 5

FOREBAY SEE SHEET 4 FOR LOCATION

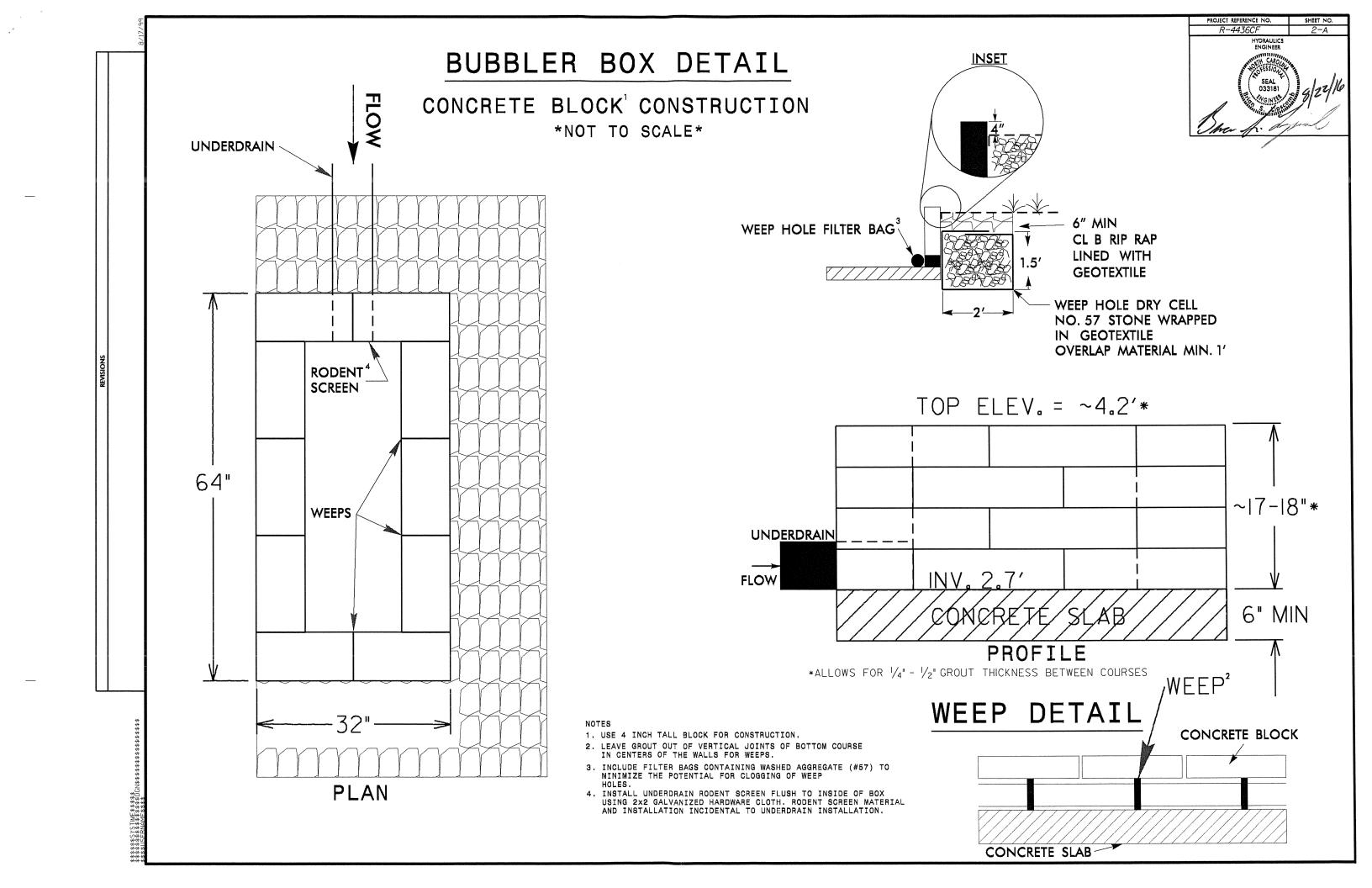


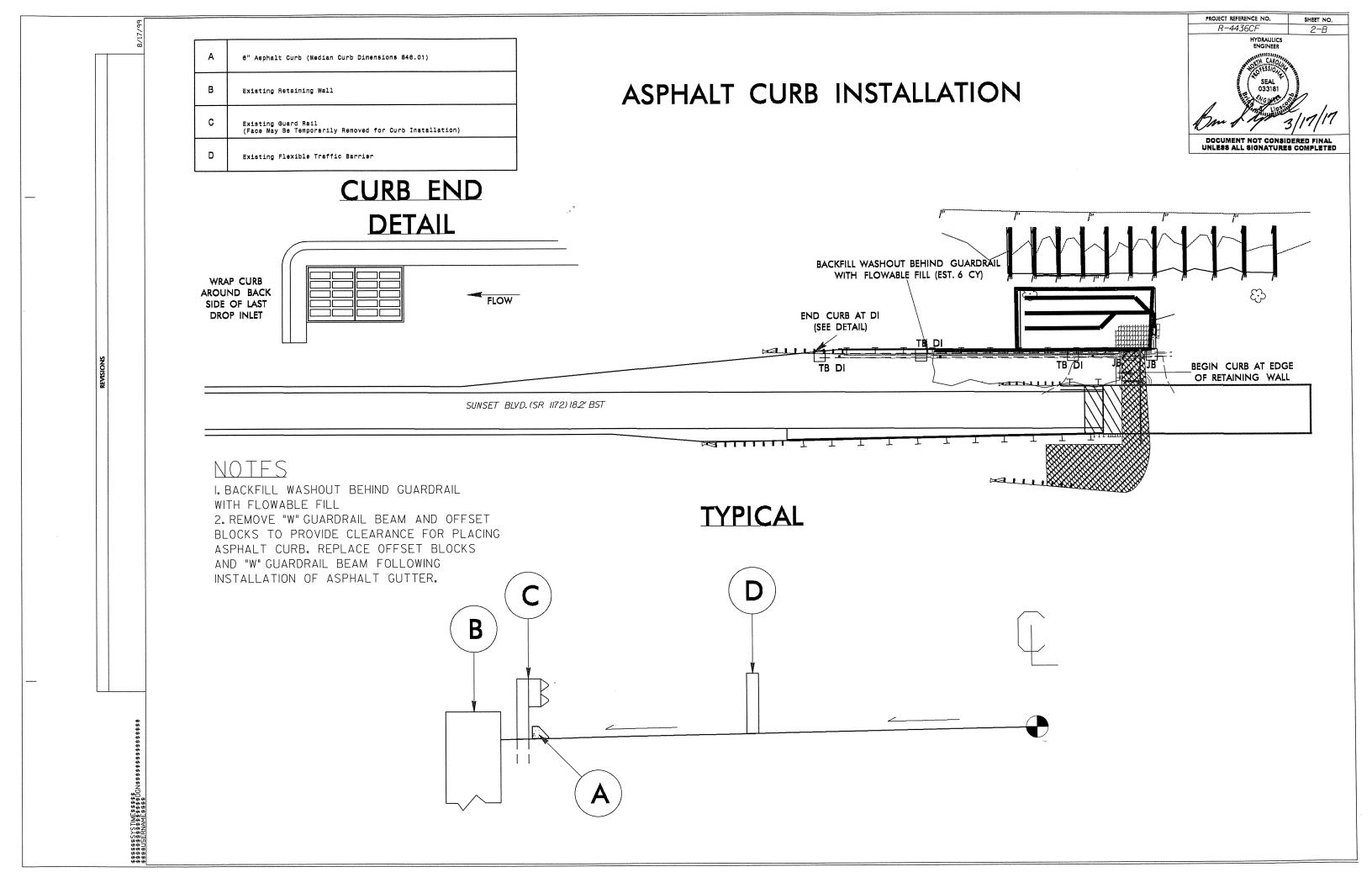


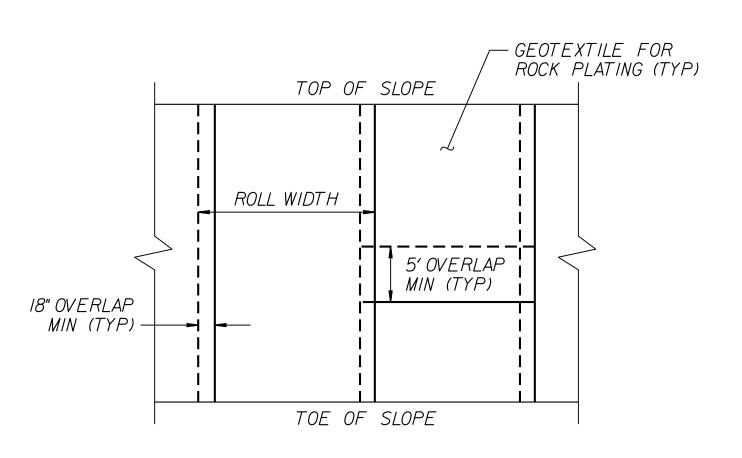
B - **B**



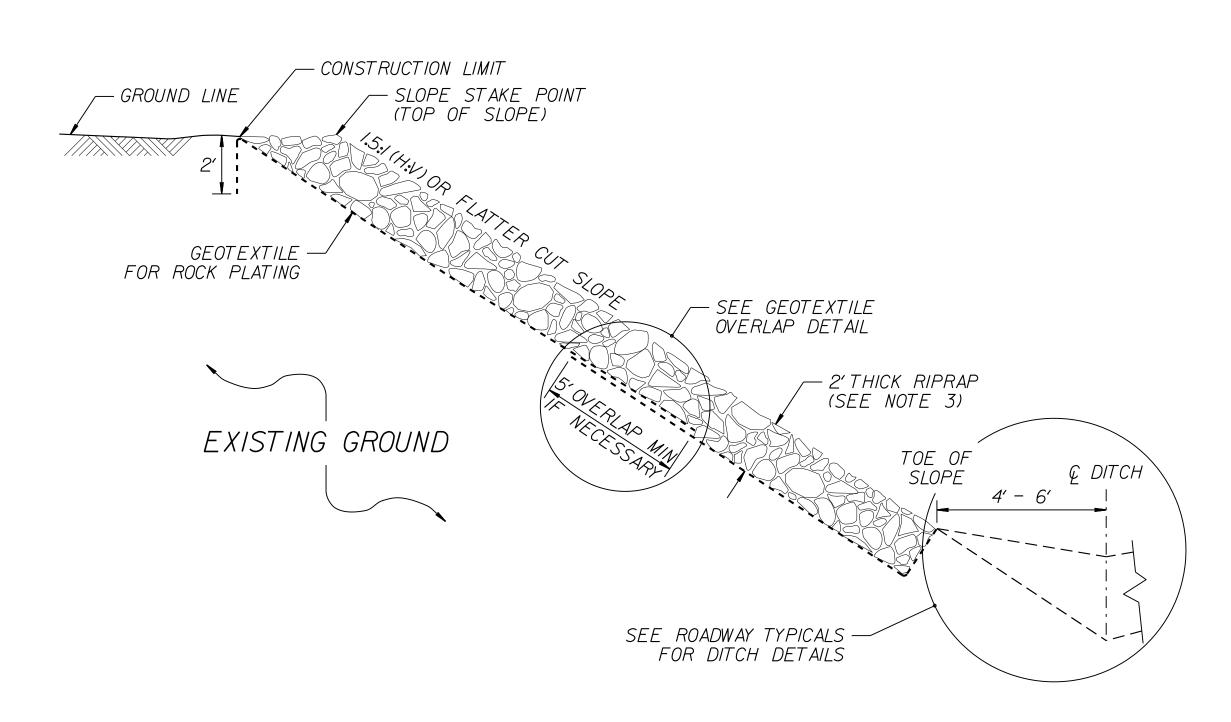
- 1. ENTIRE SEDIMENT FOREBAY WILL BE LINED WITH FILTER FABRIC.
- 2. FOREBAY FLOOR DIMENSIONS ARE 9' LONG BY 14' WIDE.
- 3. REMOVE SEDIMENT AND TOP INCH OF SAND FROM EXISTING BASIN BOTTOM.
- 4. EXCAVATE TRENCHES FOR UNDERDRAIN PIPE AND LAY PIPE.
- 5. CUT HOLE IN BASIN WALL LARGE ENOUGH FOR UNDERDRAIN TO FIT THROUGH. LINE INTERIOR OF WALL WITH GEOTEXTILE TO PREVENT MATERIAL ESCAPING AROUND UNDERDRAIN.
- 5. BACKFILL WITH CLEAN SAND TO DESIGN ELEVATION.







GEOTEXTILE OVERLAP DETAIL (PLAN VIEW)



ROCK PLATING DETAIL NO. 3 – TYPICAL SECTION

NOTES:

1. USE CLASS II RIPRAP AND TYPE II GEOTEXTILE FABRIC. 2. SEE SHEETS 2-D AND 2-E FOR INSTALLATION LOCATION.

ROCK PLATING WORK IS PART OF THE HURRICANE MATTHEW REPAIR PROJECT. THIS WORK SHOULD BE APPLIED TO PROJ. NO. DF15003.2010016

PROJECT REFERENCE	E NO.	SHEET	NO.
R-4436CF		2-0	,
GEOTECHNICAL ENGINEER		ENGINEER	
SEAL 022246			
DocuSigned by: Scott A. Hidden F760CAEB06FC4D3. SIGNATURE DATE			
SIGNATURE DATE	SIGNAT	URE	DATE

SUMMARY OF ROCK PLATING					
Location	Slope (H:V)	Approx. Length LF	Rock Plating Detail No. 1/2/3/4	Riprap Class* 1/2/B	Rock Plating SY
East Side of Causeway	2:1	1900 LF	3	2	1650
				TOTAL SY:	1650

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

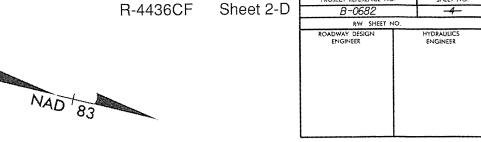
GEOTECHNICAL ENGINEERING UNIT STANDARD DETAIL NO. 1802.01

STANDARD ROCK PLATING

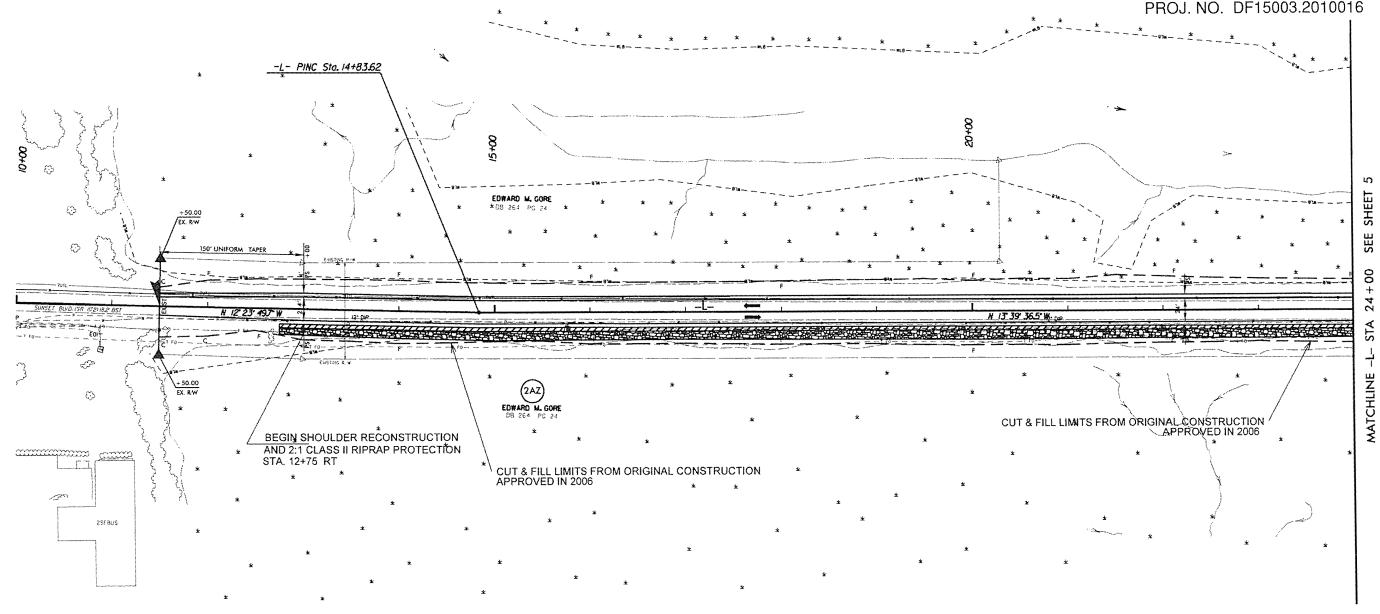
DATE: 2-19-13

ROCK PLATING LOCATION

PERMIT DRAWINGS TO
REPAIR EROSION ESCARPMENT AND
RIP RAP SLOPE PROTECTION
DRAWING DATE: 12/08/2016
Revised 12/15/2016



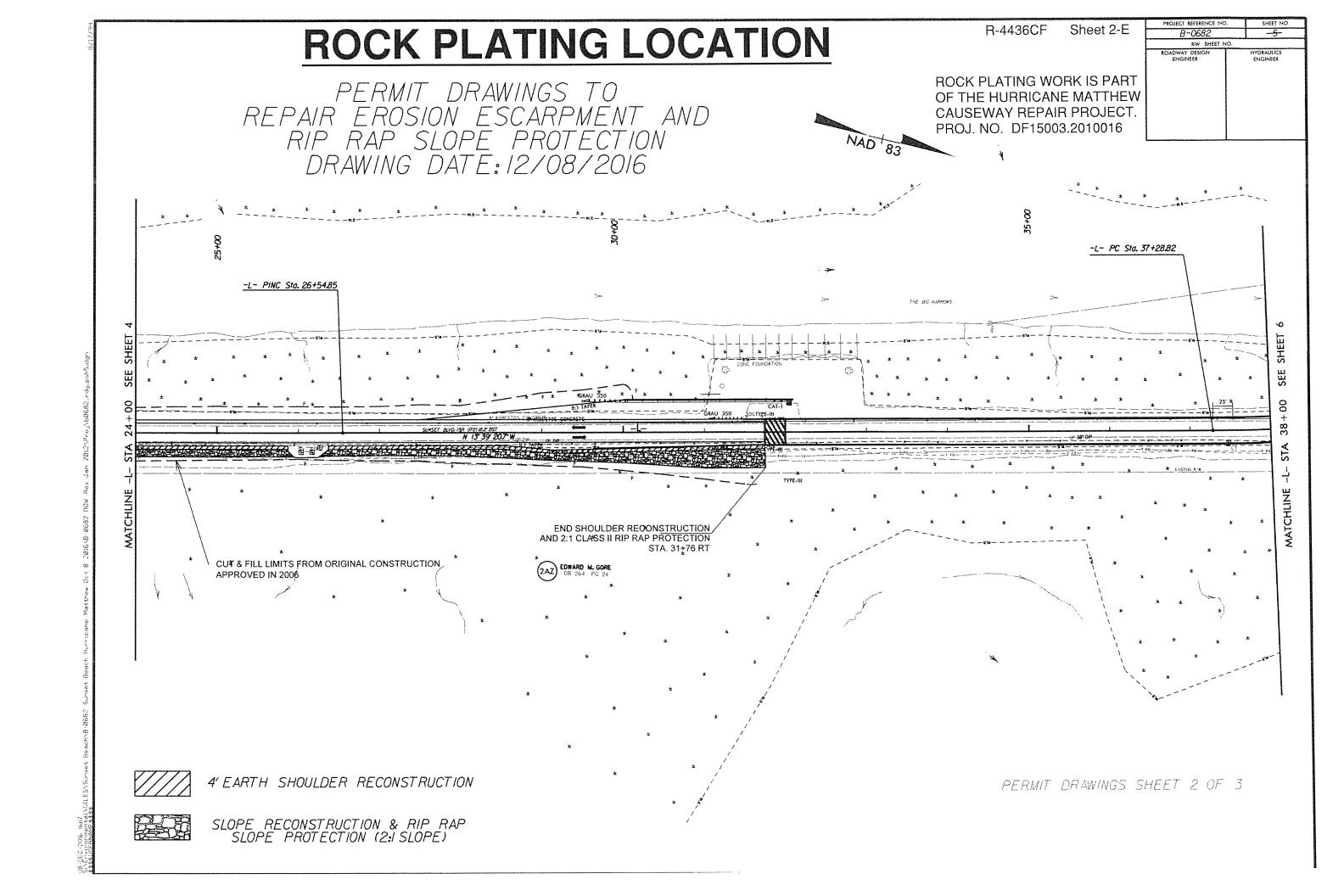
ROCK PLATING WORK IS PART OF THE HURRICANE MATTHEW CAUSEWAY REPAIR PROJECT. PROJ. NO. DF15003.2010016



4' EARTH SHOULDER RECONSTRUCTION



SLOPE RECONSTRUCTION & RIP RAP SLOPE PROTECTION (2: SLOPE) PERMIT DRAWINGS SHEET I OF 3



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

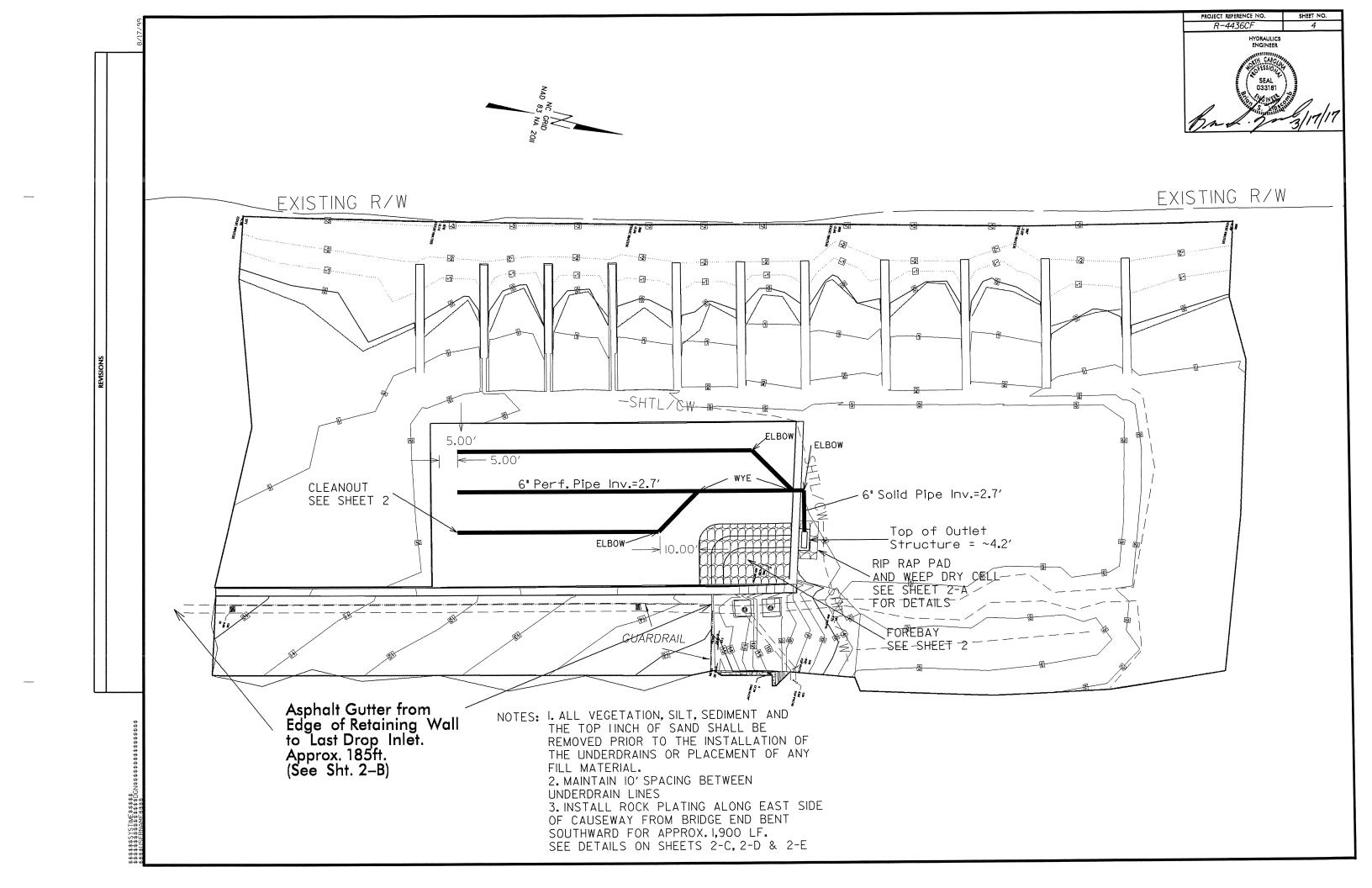
PROJECT REFERENCE NO. SHE R = 4436CF

SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION																						77								
					qyT	LANES	LANE TYPE GINAL STIREAGE TESTING REDUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH HOLE CUT THROUGH SHEET PILE (GENERIC)		BORROW EXC.	ROCK PLATING	6" PERFORATED HDPE PIPE W/SOCK (GENERIC)	6" HDPE 45 DEGREE ELBOW (GENERIC)			6" THREADED END CAP ASSEMBLY (GENERIC) PATCHING EXISTING PAVEMENT (FULL DEPTH (GENERIC)	SUBDRAIN FINE AGGREGRATE	FLOWABLE FILL	MASONRY DRAINAGE STRUCT	WEEPHOLE FILTER BAG	WASHED ND57 STONE (GENERIC)	STEEL BM GR	ADD GR POSTS	REMOVE AND RESET EXISTING GR POST (GENERIC)	RIP RAP, CLASS B	TEMP. SILT FENCE	SAFETY FENCE	COIR FIBER MAT	COIR FIBER WATTLE	SEED & MULCHING	RESPONSE FOR ERDISION CONTROL	GEOTEXTILE FOR DRAINAGE
NO		NO			NO				Mi	FT LS	LS	CY	SY	LF	EA	EA	EA I	EA TON	СУ	CY	£Α	EA	TON	LF	£Α	LF	TON	LF	LF	SY	LF	AC	EA	SY
NO		140		GRADING AND DRAINAGE -																											4.5		_	70
34625.2.55 - R-4436CF	Brunswick	1	SR 1172 (SUNSET BLVD.)	R-4436CF		2 29	WU N			24 1				260	2	1		3	190		1	3	4				18		-		45 45		5 5	70
	OTAL FOR MA								0.05	1		-		260				3	190	6	1	3	4				18	 		+	45	+		70
TOTAL FOR PI	ROJ NO. 3462	5.2.55	- R-4436CF			l			0.05	1	1	L		260	2	1	2	3	190	1 6	1 1	3	4		LL		10	I			1 43			
DF15003.2010016-				GRADING AND DRAINAGE -																								2.000	2 200	500		0.75		i
urricane Matthew Number	Brunswick	1	SR 1172 (SUNSET BLVD.)	HURRICANE MATTHEW NUMBER		2 2V	WU N	O NO		24		200		-	\vdash				_	 	-						-	2,000 2,000				0.75		
	OTAL FOR MA								0.36		_		1,650							-									2,000			0.75		$\overline{}$
	5003.201001	.6 - Hur	rricane Matthew Number					L_	0.36			200	1,650			L						L		l	l		J	2,000	2,000			1 3.70		
OTAL FOR PROJ NO. DET							Т		г		T	T	T	T		T															ì	1	1	ĺ
38.201011 -	T			GRADING AND DRAINAGE - BRIDG	1 1	ļ	- 1				-		l	1	1 1	- 1		1	- 1	1					_	4 4 5 5		1						1
	8runswick	1	SR 1172 (SUNSET BLVD.)	GRADING AND DRAINAGE - BRIDG MAINTENANCE NUMBER	1 1	2 24	WU N	IO NO		24								2						100	5	1,100	-			-				L
38.201011 - ridge Maintenance Number	Brunswick OTAL FOR MA			1	1 1	2 29	WU N	10 NO		24								2 2						100	5	1,100 1,100 1,100								

THERMOPIASTIC AND PAINT QUANTITIES

									4413000000-E	4457000000-N
COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES		LENGTH	WIDTH	1	TEMPORARY
						TYPE			1	TRAFFIC
									WARNING SIGNING	CONTROL
	NO			NO					SF	LS
	140		GRADING AND DRAINAGE -							
Brunswick	1	SR 1172 (SUNSET BOULEV ARD)	R-4436CF		2	2WU	0.05	24		
MAP NO. 1							0.05			
TOTAL FOR PROJ NO. 34625.2.55 - R-4436CF										
			GRADING AND DRAINAGE-							
Brunswick	1	SR 1172 (SUNSET BOULEV ARD)	HURRICANE MATTHEW NUMBER		2	2WU		24		1
MAP NO. 1					ļ			<u> </u>		1
0016 - Hurri	cane N	Natthew Number					0.36		80	1
			GRADING AND DRAINAGE -							
Brunswick	1	SR 1172 (SUNSET BOULEV ARD)	BRIDGE MAINTENANCE NUMBER		2	2WU		24		
								ļ		
L - Bridge M	ainter	nance Number			ļ	-				
L							0.41		on.	1
2	Brunswick MAP NO. 1 34625.2.55 Brunswick MAP NO. 1 0016 - Hurri Brunswick MAP NO. 1	Brunswick 1 Brunswick 1 MAP NO. 1 O016 - Hurricane N Brunswick 1 R MAP NO. 1 OHER MAP NO. 1 Brunswick 1	Brunswick 1 SR 1172 (SUNSET BOULEV ARD) R MAP NO. 1 Brunswick 1 SR 1172 (SUNSET BOULEV ARD) R MAP NO. 1 Brunswick 1 SR 1172 (SUNSET BOULEV ARD) R MAP NO. 1 Brunswick 1 SR 1172 (SUNSET BOULEV ARD) R MAP NO. 1 - Bridge Maintenance Number	NO Brunswick 1 SR 1172 (SUNSET BOULEV ARD) GRADING AND DRAINAGE - R-4436CF RAP NO. 1 34625.2.55 - R-4436CF Brunswick 1 SR 1172 (SUNSET BOULEV ARD) GRADING AND DRAINAGE - HURRICANE MATTHEW NUMBER MAP NO. 1 O016 - Hurricane Matthew Number GRADING AND DRAINAGE - Brunswick 1 SR 1172 (SUNSET BOULEV ARD) GRADING AND DRAINAGE - Brunswick 1 SR 1172 (SUNSET BOULEV ARD) BRIDGE MAINTENANCE NUMBER MAP NO. 1 1 - Bridge Maintenance Number	NO Brunswick 1 SR 1172 (SUNSET BOULEV ARD) GRADING AND DRAINAGE - R-4436CF RAP NO. 1 34625.2.55 - R-4436CF Brunswick 1 SR 1172 (SUNSET BOULEV ARD) HURRICANE MATTHEW NUMBER R MAP NO. 1 0016 - Hurricane Matthew Number GRADING AND DRAINAGE - HURRICANE MATTHEW NUMBER GRADING AND DRAINAGE - Brunswick 1 SR 1172 (SUNSET BOULEV ARD) BRIDGE MAINTENANCE NUMBER R MAP NO. 1 1 - Bridge Maintenance Number	NO Brunswick 1 SR 1172 (SUNSET BOULEV ARD) GRADING AND DRAINAGE - R-4436CF 2 RMAP NO. 1 34625.2.55 - R-4436CF Brunswick 1 SR 1172 (SUNSET BOULEV ARD) HURRICANE MATTHEW NUMBER 2 RMAP NO. 1 D016 - Hurricane Matthew Number Brunswick 1 SR 1172 (SUNSET BOULEV ARD) BRIDGE MAINTENANCE NUMBER 2 RMAP NO. 1 Brunswick 1 SR 1172 (SUNSET BOULEV ARD) BRIDGE MAINTENANCE NUMBER 2 RMAP NO. 1 Brunswick 1 SR 1172 (SUNSET BOULEV ARD) BRIDGE MAINTENANCE NUMBER 2	NO Brunswick 1 SR 1172 {SUNSET BOULEVARD} GRADING AND DRAINAGE - Brunswick 1 SR 1172 {SUNSET BOULEVARD} GRADING AND DRAINAGE - Brunswick 1 SR 1172 (SUNSET BOULEVARD) HURRICANE MATTHEW NUMBER 2 ZWU R MAP NO. 1 R MAP NO. 1 Brunswick 1 SR 1172 (SUNSET BOULEVARD) HURRICANE MATTHEW NUMBER 2 ZWU R MAP NO. 1 Brunswick 1 SR 1172 (SUNSET BOULEVARD) BRIDGE MAINTENANCE NUMBER 2 ZWU R MAP NO. 1 Brunswick 1 SR 1172 (SUNSET BOULEVARD) BRIDGE MAINTENANCE NUMBER 2 ZWU R MAP NO. 1 Brunswick 1 SR 1172 (SUNSET BOULEVARD) BRIDGE MAINTENANCE NUMBER 2 ZWU R MAP NO. 1 1 - Bridge Maintenance Number	NO	NO	NO



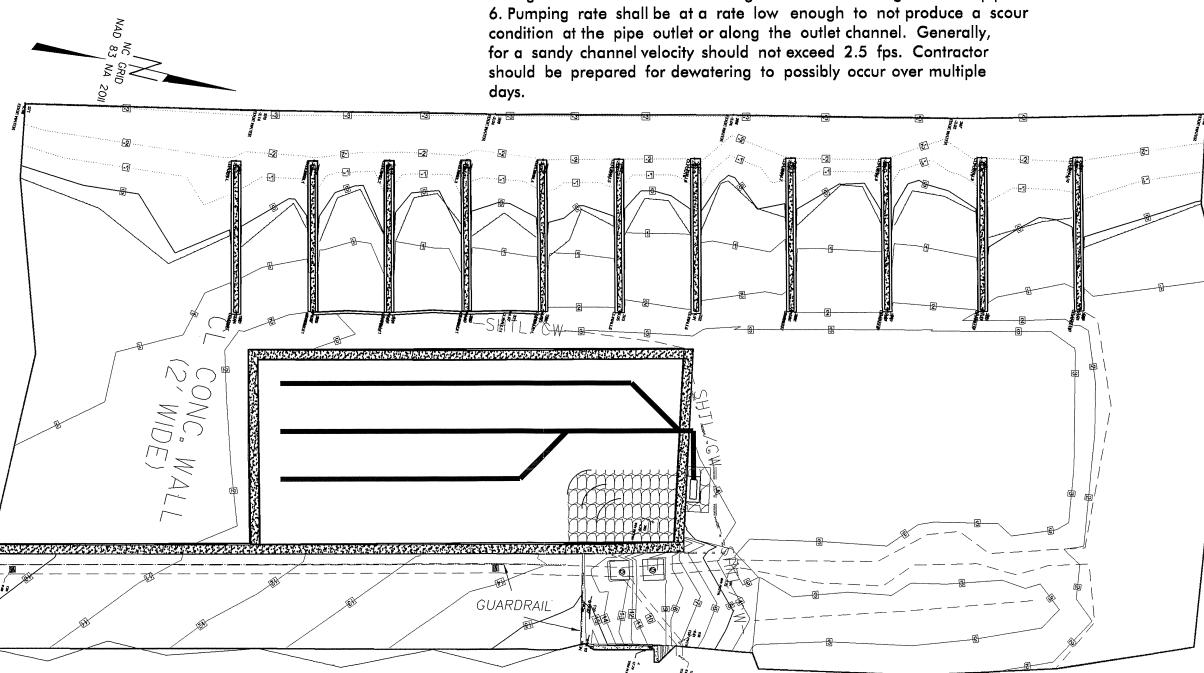
Reviewed by W. Chandler - 1/14/1 (Roadside Environmental Unit)

Notes:

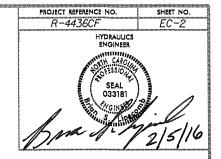
EROSION AND SEDIMENT CONTROL MEASURES

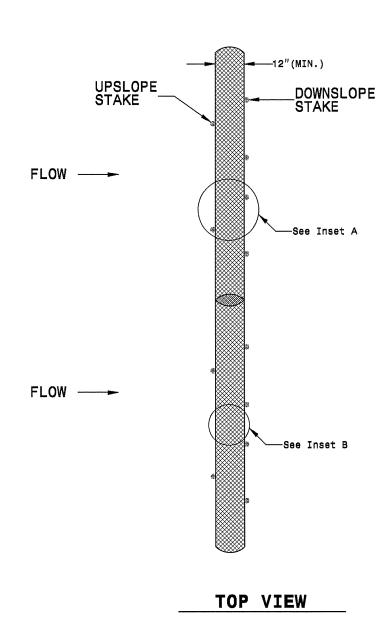
1. Location of wattles should be field adjusted and placed in a manner to avoid or minimize impact to vegetation. Wattles shall not be placed within the Coastal Wetlands (CW) or below the Spring High Tide Line (SHTL).

- 2. Location of wattles should be field adjusted and placed in a manner to avoid Rip Rap around the bridge abutment.
- 3. Basin should be dewatered by pumping.
- 4. Pump discharge hose shall be placed into the lower junction box through the manhole and discharge out of the existing concrete pipe.



COIR FIBER WATTLE DETAIL





NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

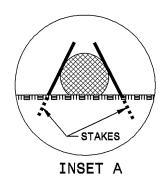
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

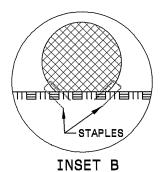
ONLY INSTALL WATTLE(S) TO A HEIGHT SO THAT FLOW WILL NOT WASH AROUND WATTLE AND SCOUR SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.





GENERAL NOTES

THE FOLLOWING GENERAL NOTES SHALL APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

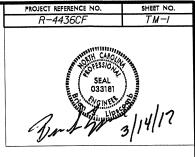
THE TRAFFIC CONTROL PLAN FOR THIS PROJECT CONSISTS OF STANDARD DETAIL DRAWINGS, THESE DRAWINGS ARE TYPICAL SITUATIONS AND SHOULD BE ADAPTED TO THE ACTUAL FIELD CONDITIONS, SUCH AS WHEN PHYSICAL DIMENSIONS ARE NOT ATTAINABLE, OR WHEN MORE THAN ONE DRAWING IS APPLIED SIMULTANEOUSLY RESULTING IN DUPLICATE SIGNING, OR UNDESIRED OVERLAPPING OF DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADAPTING THE TRAFFIC CONTROL PLAN TO FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT.

SHOULDER CLOSURE REQUIREMENTS

- A. SHOULDER CLOSURES SHALL BE REMOVED AS SOON AS PRACTICAL AFTER WORK BEHIND THE CLOSURE IS COMPLETED OR WHEN SHOULDER CLOSURE IS NO LONGER NEEDED.
- B. CONTRACTOR SHALL MAINTAIN EXISTING
 TRAFFIC PATTERNS AND LANE
 CONFIGURATIONS AT THE END OF EACH DAYS
 OPERATION AND DURING CONSTRUCTION
 INACTIVITY, EXCEPT AS OTHERWISE
 INDICATED IN THE PHASING PLAN.
- C. WHEN SHOULDER CLOSURES ARE NOT IN EFFECT, CHANNELIZING DEVICES IN WORK AREAS SHALL BE SPACED NO GREATER THAN TWICE THE POSTED SPEED LIMIT, EXCEPT 10-FEET ON CENTER IN RADII, AND SHALL BE SET 3' OFF THE EDGE OF AN EXISTING TRAVEL LANE.
- D. DURING SHOULDER CLOSURES, FLAGGERS
 SHALL BE USED WHEN DELIVERING MATERIALS
 TO LOCATIONS CLOSE TO THE PAVEMENT.
 FLAGGERS AND PROPER VEHICLE ACCESS
 TECHNIQUES SHALL BE USED FOR AREAS
 WHERE CONSTRUCTION TRAFFIC IS UTILIZING
 STANDARD CONSTRUCTION ENTRANCES.

SIGNING

- E. EXISTING TRAFFIC SIGNAGE SHALL BE MOVED AND OTHERWISE MAINTAINED BY THE CONTRACTOR AS APPROPRIATE DURING CONSTRUCTION.
- F. ALL NECESSARY TRAFFIC CONTROL SIGNING SHALL BE IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.



2012 ROADWAY ENGLISH STANDARD DRAWINGS

THE FOLLOWING STANDARDS AS THEY APPEAR IN 'ROADWAY STANDARD DRAWINGS'
HIGHWAY DESIGN BRANCH - N.C. DEPARTMENT OF TRANSPORTATION - RALIEGH, N.C..
DATED JANUARY 17, 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE
HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NUMBER	DESCRIPTION
1101.02	TEMPORARY LANE CLOSURES
1101-04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130-01	DRUM
1135.01	CONES
1150-01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND THA DELINEATION
1180-01	SKINNY DRUM