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INDEX OF SHEETS

SHEET NUMBER	SHEET DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
10	SURVEY CONTROL
2D-1	BMP DETAILS 1
2D-2	BMP DETAILS 2
2D-3	CONCRETE FLUME DETAILS
3B/3D	EARTHWORK, DRAINAGE & EROSION CONTROL SUMMARIES
4	PLAN SHEET
EC-1	EROSION CONTROL PLAN
TC-1	TRAFFIC CONTROL PLAN

CONSTRUCTION SEQUENCE NOTES

PROJECT REQUIRES A PRE-CONSTRUCTION CONFERENCE PRIOR TO INITIATING ANY EARTH DISTURBANCE ACTIVITIES.

- 1. ESTABLISH SIGNAGE AT PARK AND RIDE SITE TO INFORM PUBLIC OF PARTIAL LOT CLOSURE A MINIMUM OF 2 WEEKS PRIOR TO START OF CONSTRUCTION. INDICATE ANTICIPATED DATES OF PARTIAL CLOSURE ON THE SIGNAGE.
- 2. PROVIDE SIGNAGE AT PARK AND RIDE SITE AND MAINTAIN SOFT BARRIERS, SUCH AS CONES OR DRUMS, TO CLOSE AND RESTRICT PUBLIC ACCESS TO THE CLOSED PORTION OF THE GROUNDS AND PARKING LOT.
- 3. INSTALL TEMPORARY EROSION CONTROL DEVICES AS SHOWN ON PLANS.
- 4. CONSTRUCT FILTRATION BASINS AND OTHER IMPROVEMENTS.
- 5. FOLLOW SEEDING/ MULCHING GUIDELINES ON THE PLANS TO STABILIZE ALL REMAINING DISTURBED SURFACES.
- 6. INSPECT ALL INLETS, PIPES, AND OUTLETS FOR SEDIMENT AND REMOVE SEDIMENT AS REQUIRED.
- 7. REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES AFTER PERMANENT PERENNIAL VEGETATION IS ESTABLISHED.

EROSION CONTROL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS.
- 2. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES DURING THE LIFE OF THE PROJECT UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY NCDOT INSPECTOR.
- 3. CONTRACTOR SHALL CONSTRUCT DIVERSION DITCHES AS NECESSARY TO ENSURE THAT ALL SEDIMENT IS DIRECTED INTO EROSION CONTROL MEASURES.
- 4. CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING. SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITHIN 7 DAYS.
- 5. PROVIDE TEMPORARY MEASURES AS NECESSARY TO PREVENT SEDIMENT FROM MIGRATING INTO FILTER MEDIA OR SODDED AREAS.
- 6. ALL STREETS ADJACENT TO THIS PROJECT SHALL REMAIN CLEAN AT ALL TIMES OR A WASH STATION MAY BE REQUIRED.
- 7. IF USED, SILT FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED.
- 8. RESEED OF PERMANENT GROUND COVER WILL BE ESTABLISHED IN 15 WORKING DAYS OR 30 CALENDAR DAYS, WHICH EVER IS SHORTER.
- 9. EROSION CONTROL MATTING SHALL BE STRAW MATTING. USE STD. DWG. 1631.01 FOR MATTING INSTALLATION.
- **10. PROVIDE GRAVEL CONSTRUCTION ENTRANCE PER 1607.01 AS NEEDED TO PREVENT TRACKING OFFSITE.**

SURVEY

LOCATIONS AND ELEVATIONS SHOULD BE FIELD VERIFIED. CONSULT WITH ENGINEER IF SIGNIFICANT DEVIATIONS FROM THE PLAN ARE REQUIRED.

UTILITIES

THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATIONS AS TO THE LOCATION OF UTILITIES. EXISTING UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE, OR OVERHEAD) ARE INDICATED ONLY TO THE EXTENT THAT SUCH INFORMATION WAS KNOWN, MADE AVAILABLE TO, OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THE LOCATIONS, CONFIGURATIONS, AND ELEVATIONS OF SUBSURFACE FACILITIES AND UTILITIES ARE APPROXIMATE, AND NOT ALL UTILITIES AND FACILITIES MAY BE INDICATED.

GENERAL NOTES

2012 ROADWAY ENGLISH STA

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE PLANS. 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.

CLEARING:

- CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
- TRAFFIC CONTROL:
 - USE APPROPRIATE STANDARDS PER DIVISION 11 AS REQUIRED TO COMPLETE WORK. COORDINATE TRAFFIC CONTROL WITH THE DIVISION.

THE FOLLOWING ROADWAY STANDARDS AS HIGHWAY DESIGN BRANCH - N. C. DEPART DATED JANUARY, 2012 ARE APPLICABLE ARE CONSIDERED A PART OF THESE PLANS

STD.NO.	TITLE
DIVISION	2 - EARTHWORK
200.02	METHOD OF CLEARING - ME
DIVISION	3 - PIPE CULVERTS
300.01	METHOD OF PIPE INSTALLA
DIVISION	8 - INCIDENTALS
840.66	DRAINAGE STRUCTURE STEP
846.01	CONCRETE CURB, GUTTER A
876.04	DRAINAGE DITCHES WITH C
DIVISION	11 - WORK ZONE TRAFFIC CONT
	WORK ZONE ADVANCE WARNI
	TEMPORARY SHOULDER CLOS
DIVISION	16 - EROSION CONTROL AND RO
1605.01	TEMPORARY SILT FENCE
1607.01	GRAVEL CONSTRUCTION ENT
1632.03	ROCK INLET SEDIMENT TRA
1633.01	TEMPORARY ROCK SILT CHE

EARTHWORK

1. ALL EARTHWORK FOR BASIN CONSTRUCTION SHALL BE PERFOR NCDOT STANDARD SPECIFICATIONS.

SEEDBED PREPERATION

- 1. PREPARE AND SEED ONLY DISTURBED AREAS. DO NOT SPREAD
- 2. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES
- 3. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- 4. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS
- 5. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPH
- 6. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REAS
- 7. SEED A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHT
- 8. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- 9. INSPECT ALL SEEDED AREAS AND MAKE ALL NECESSARY REPA STAND SHOULD BE OVER 70% DAMAGED, REESTABLISH FOLLOW
- **10. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATM**

*APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ACRE (34 TONS/ACI FERTILIZER - 1,000 LBS/ACRE - 10-10-10 SUPERPHOSPHATE - 500 LBS/ACRE - 20% MULCH - 2 TONS/ACRE - SMALL GRAIN STRAW ANCHOR - ASPHALT EMULSION @ 300 GAL. ACRE

MAINTENCE PLAN

- 1. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES WILL PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE A PRACTICES AS DESIGNED.
- 2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- 3. INLET PROTECTION DEVICES SHALL BE INSPECTED AFTER EV GRAVEL SHALL BE CLEANED OR REPLACED WHEN INLET NO LO

	PROJECT REFERENCE NO	D. SHEET NO.
NDARD DRAWINGS		PROJECT ENGINEER
ANDARD DRAWINGS	CocuSigned by:	INITH CARO
	randall hanagar	OFESSION A
APPEAR IN "ROADWAY STANDARD DRAWINGS" TMENT OF TRANSPORTATION - RALEIGH, N. C., TO THIS PROJECTAND BY REFERENCE HEREBY	B5F228A4319F47D 3/1/2017	SEAL 16600
S:	-	Miller internet
		ONSIDERED FINAL TURES COMPLETED
ETHOD II		
ATION		
PS AND CURB & GUTTER CLASS 'B' RIP RAP		
TROL ING SIGNS FOR FACILITIES <= 55 MPH SURES		
OADSIDE DEVELOPMENT		
AP TYPE C ECK Type A		
RMED IN ACCORDANCE WITH THE LATEST VERSION O	F	
D SEED ON AREAS TO RECEIVE SOD.		
DEEP OVER ADVERSE SOIL CONDITIONS IF AVAILAB	LE.	
LEAVING SURFACES REASONABLY SMOOTH AND UNIF	ORM.	
HATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW*).	
SONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 I	NCHES DEEP.	
TLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTE	R SEEDING.	
AIRS OR RESEEDINGS WITHIN THE PLANTING SEASO WING ORIGINAL LIME, FERTILIZER AND SEEDING R	•	
MENT AND FERTILIZATION AFTER PERMANENT COVER	IS ESTABLISHED.	
RE ON CLAY SOILS)		
L BE CHECKED FOR STABILITY AND OPERATION FOL WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDI		
WHEN IT BECOMES ABOUT 6-INCHES DEEP AT THE	FENCE. THE SILT FENC)E
- VERY RAINFALL EVENT. DAMAGED SILT FENCE SHAL ONGER DRAINS PROPERLY.	L BE REPLACED AND	

BOUNDARIES AND PROPERTY:

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State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Computed Property Corner	 ×
Property Monument	 ЕСМ
Parcel/Sequence Number	(23)
Existing Fence Line	xxx
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	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water —	
Contaminated Site: Known or Potential —	
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Gas Pump Vent or LLG Tank Can	
Gas Pump Vent or U/G Tank Cap	O
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Sign Well	○ ⊙ ♀
Sign Well Small Mine	O ♀ ♀ ♀
Sign Well Small Mine Foundation	
Sign Well Small Mine Foundation Area Outline	
Sign Well Small Mine Foundation Area Outline Cemetery	
Sign Well Small Mine Foundation Area Outline Cemetery Building	
Sign	
Sign Well Small Mine Foundation Area Outline Cemetery Building School Church	
Sign	
Sign	
Sign Well Small Mine Foundation Area Outline Cemetery Building School Church Dam HYDROLOGY: Stream or Body of Water	
Sign Well Small Mine Foundation Area Outline Cemetery Building School Church Dam HYDROLOGY: Stream or Body of Water Hydro, Pool or Reservoir	
Sign Well Small Mine Foundation Area Outline Cemetery Building School Church Dam HYDROLOGY: Stream or Body of Water Hydro, Pool or Reservoir Jurisdictional Stream	
Sign Well 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	$ \bigcirc \\ \bigcirc $
Sign Well 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	$ \bigcirc \bigcirc$
Sign Well 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	$ \bigcirc \bigcirc$
Sign Well 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	$ \bigcirc \\ \bigcirc $
Sign Well 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 Spring	$ \bigcirc \bigcirc$
Sign Well 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 Spring Wetland	$ \bigcirc \bigcirc \\ $
Sign Well 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 Spring	$ \bigcirc \bigcirc \\ $

RAILROADS:

Standard RR Signal Switch — RR Abanda **RR** Dismantled

RIGHT OF WAY & PROJECT CONTROL:

Secondary Primary H Primary H Exist Perm New Per Vertical Be Existing Ri Existing Ri New Righ New Rigł New Righ Concre New Con Concre Existing C New Con Existing Ec New Tem New Tem New Peri New Peri New Perr New Tem New Aer

ROADS AND RELATED FEATURES:

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS Note: Not to Scale *S.U.E. = Subsurface Utility Engineering

JADS:	
Gauge ——	CSX TRANSPORTATION
Milepost ——	O MILEPOST 35
	SWITCH
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ntled ———	

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ry Horiz and Vert Control Point ——	
Horiz Control Point	\bigcirc
Horiz and Vert Control Point	۲
nanent Easment Pin and Cap ———	\diamond
rmanent Easement Pin and Cap ——	\diamond
Benchmark ————	
Right of Way Marker	\bigtriangleup
Right of Way Line	
ht of Way Line	
pht of Way Line with Pin and Cap—	
ht of Way Line with ete or Granite R/W Marker	
ntrol of Access Line with rete C/A Marker	
Control of Access	
ntrol of Access	
ntrol of Access Easement Line	•
	— — E — —
Easement Line	——Е—— ——Е——
Easement Line mporary Construction Easement	— — E — — — — — E — — — — — — — — — — —
Easement Line mporary Construction Easement mporary Drainage Easement	— — E — — — — — E — — — — — — — — — — —
Easement Line	— — E — — — — — E — — — — — — — — — — —
Easement Line mporary Construction Easement mporary Drainage Easement rmanent Drainage Easement rmanent Drainage / Utility Easement	E
Easement Line	E

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	<u>C</u>
Proposed Slope Stakes Fill	<u>F</u>
Proposed Curb Ramp	CR
Existing Metal Guardrail	<u> </u>
Proposed Guardrail —————————	<u> </u>
Existing Cable Guiderail	<u> </u>
Proposed Cable Guiderail	<u> </u>
Equality Symbol	\odot
Pavement Removal	\boxtimes
VEGETATION:	
Single Tree	භි
Single Shrub	භී

ledge	~~~~	~~~~	~~~~~	\sim
Noods Line	ــــــــــــــــــــــــــــــــــــــ	$\underline{\cdot},\underline{\cdot},\underline{\cdot},\underline{\cdot},\underline{\cdot},\underline{\cdot},\underline{\cdot},\underline{\cdot},$	<u>'n_r</u>	ſ
Orchard	භි	순	යි	
/ineyard		Viney	/ard	

EXISTING STRUCTURES:

MAJOR:

Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End W	Vall—) conc ww (
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	
Footbridge	>
Drainage Box: Catch Basin, DI or JB ——	СВ
Paved Ditch Gutter	
Storm Sewer Manhole	(S)
Storm Sewer	s

UTILITIES:

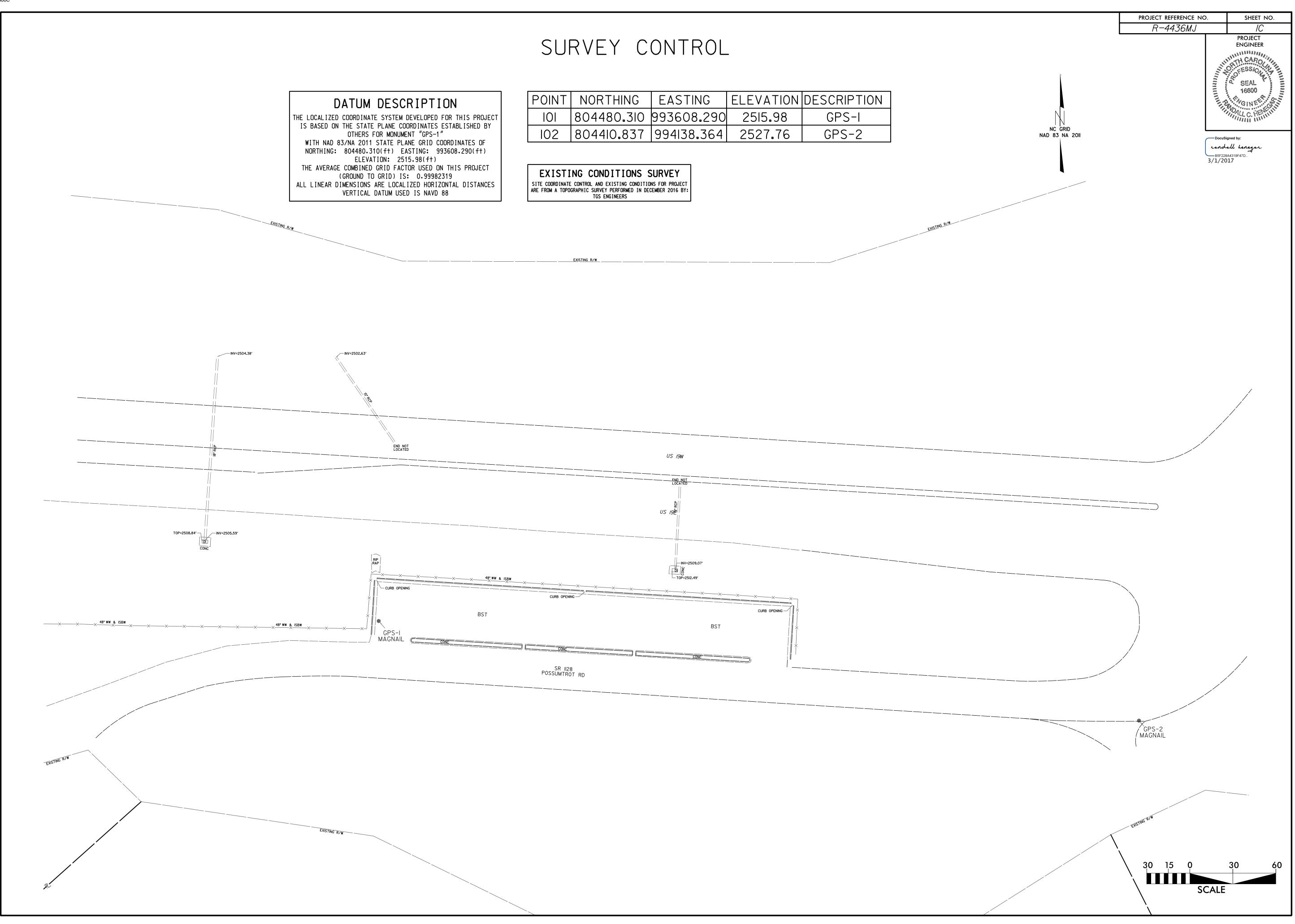
POWER:	
Existing Power Pole	•
Proposed Power Pole	6
Existing Joint Use Pole	
Proposed Joint Use Pole	-0-
Power Manhole	(\mathbb{P})
Power Line Tower	\boxtimes
Power Transformer	\square
U/G Power Cable Hand Hole	
H–Frame Pole	••
U/G Power Line LOS B (S.U.E.*)	— — — P— — —
U/G Power Line LOS C (S.U.E.*)	P P
U/G Power Line LOS D (S.U.E.*)	P

TELEPHONE:

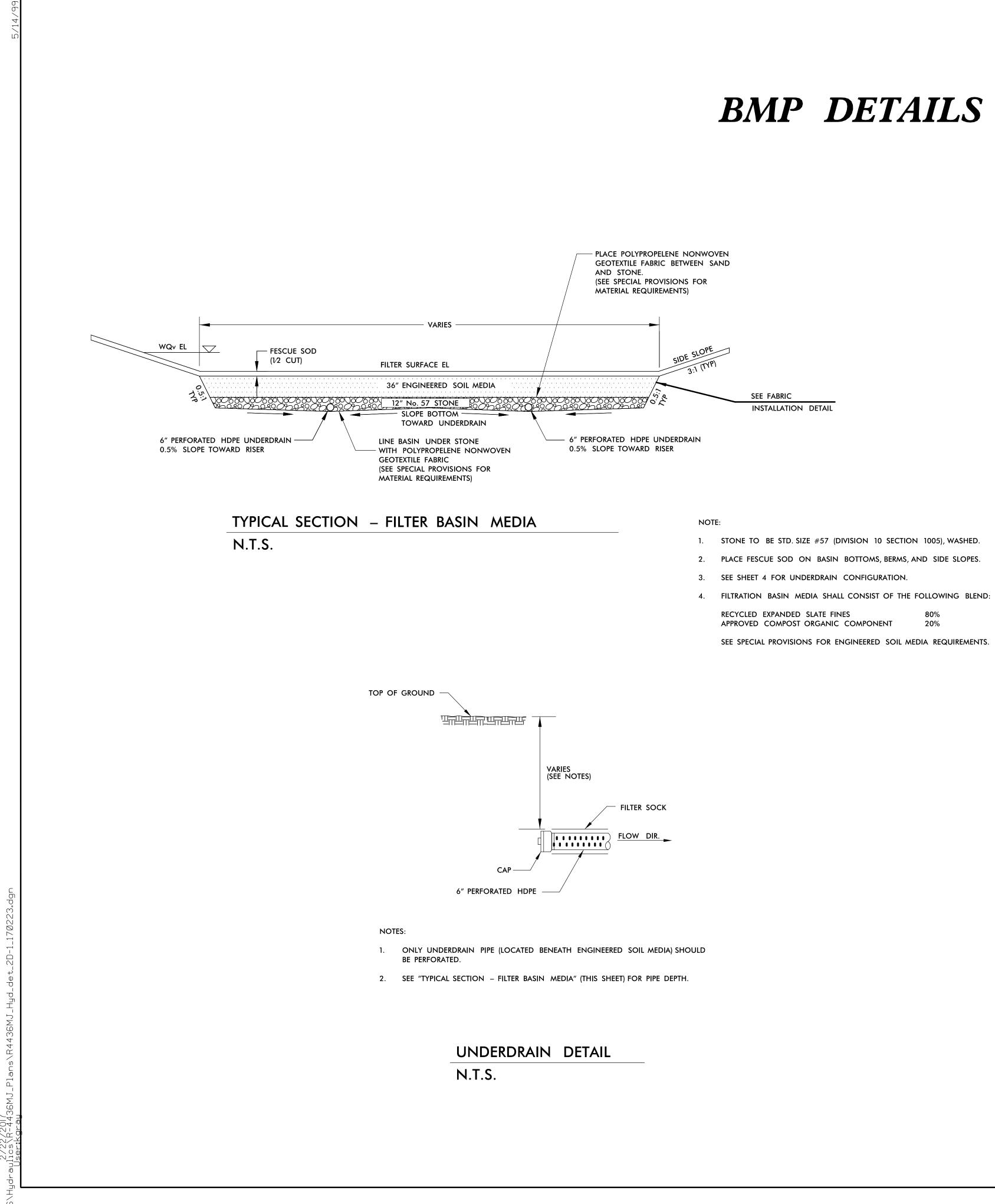
Existing Telephone Pole	-•-
Proposed Telephone Pole	-0-
Telephone Manhole	\bigcirc
Telephone Pedestal	T
Telephone Cell Tower ————	, Ť,
U/G Telephone Cable Hand Hole	HH
U/G Telephone Cable LOS B (S.U.E.*)	T
U/G Telephone Cable LOS C (S.U.E.*)	t
U/G Telephone Cable LOS D (S.U.E.*)	T
U/G Telephone Conduit LOS B (S.U.E.*) ——	— — — TC— — —
U/G Telephone Conduit LOS C (S.U.E.*)——	TC
U/G Telephone Conduit LOS D (S.U.E.*)——	TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	— — — T FO— — —
U/G Fiber Optics Cable LOS C (S.U.E.*)	——————————————————————————————————————
U/G Fiber Optics Cable LOS D (S.U.E.*)——	T F0

	R-4436MJ
WATER:	
WATER: Water Manhole ————	
Water Mannole Water Meter	
Water Meler Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E*)	
U/G Water Line LOS B (S.U.E) U/G Water Line LOS C (S.U.E*)	
U/G Water Line LOS C (S.U.E*) U/G Water Line LOS D (S.U.E*)	
Above Ground Water Line	
TV: TV Pedestal	C
TV Tower	
U/G TV Cable Hand Hole	H _H
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS B (S.U.E.*) U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*	
U/G Fiber Optic Cable LOS C (S.U.E.'	
U/G Fiber Optic Cable LOS D (S.U.E.	TV F0
GAS:	
Gas Valve	
Gas Meter	·
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	A/G Gas
SANITARY SEWER:	
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	÷
U/G Sanitary Sewer Line	ss
Above Ground Sanitary Sewer	A/G Sanitary Se
SS Forced Main Line LOS B (S.U.E.*)	FSS
SS Forced Main Line LOS C (S.U.E.*)	——————————————————————————————————————
SS Forced Main Line LOS D (S.U.E.*)	FSS
MISCELLANEOUS:	-
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U	•
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Lo	·····
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	U
U/G Test Hole LOS A (S.U.E.*)	•
Abandoned According to Utility Record	ls — AATUR
End of Information	——— E.O.I.

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POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	804480.310	993608.290	2515.98	GPS-I
102	804410.837	994138.364	2527.76	GPS-2



BMP DETAILS 1

1' MINIMUM FILTER FABRIC // LANDSCAP' STAPLE LANDSCAPE

FLOW DIR.

NOTES:

LINING FABRIC SHOULD BE FOLDED BACK TO OVERLAP DIVIDING FABRIC AND 1. SECURED WITH LANDSCAPE STAPLES TO ENSURE SEALING THE STONE FROM SOIL.

GROUND -

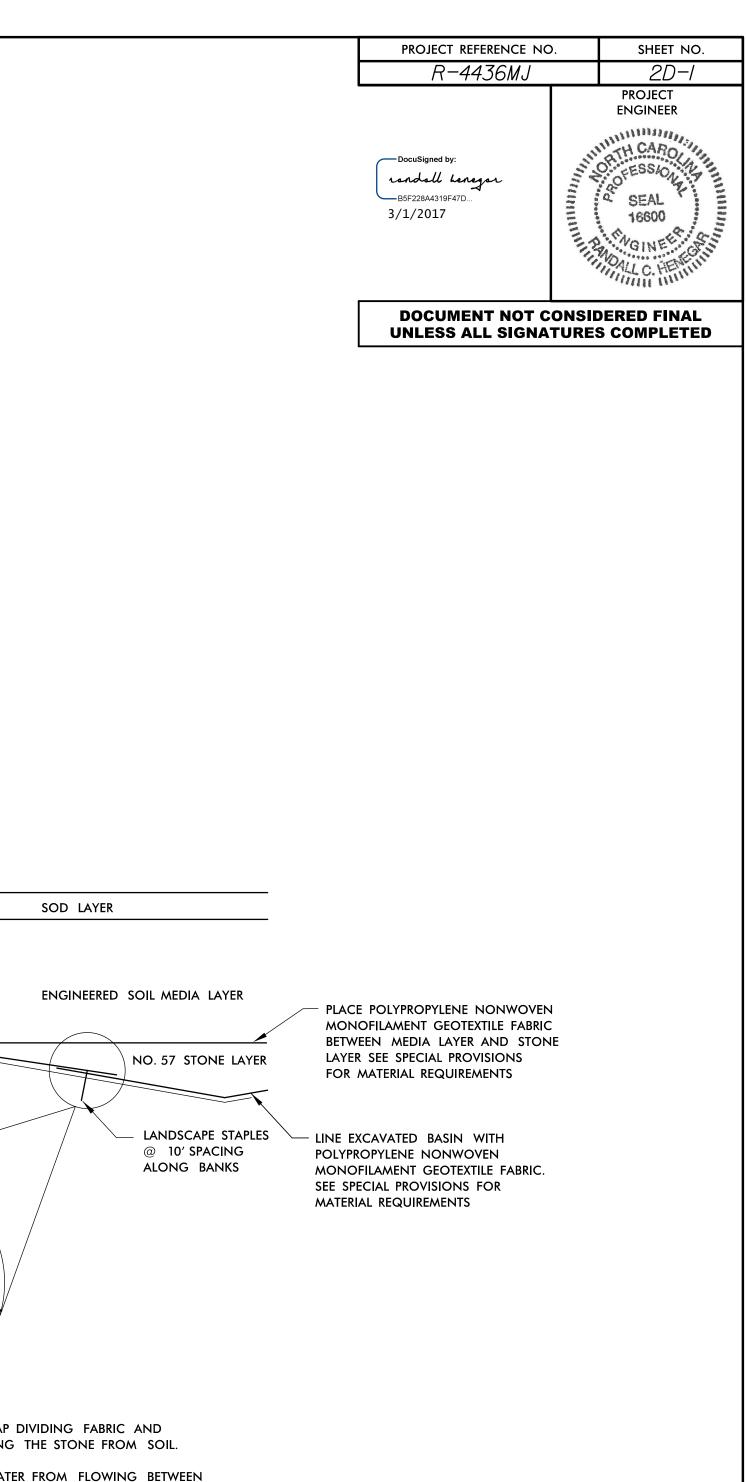
LANDSCAPE STAPLES

@ 10' SPACING

ALONG BANKS

- 2. FABRIC SHOULD BE LAYED IN A WAY TO PREVENT WATER FROM FLOWING BETWEEN OVERLAPPED PIECES. (SEE BLOWUP)
- 3. FABRIC SHOULD BE OVERLAPPED A MINIMUM OF 12 INCHES AND SECURED WITH STAPLES.

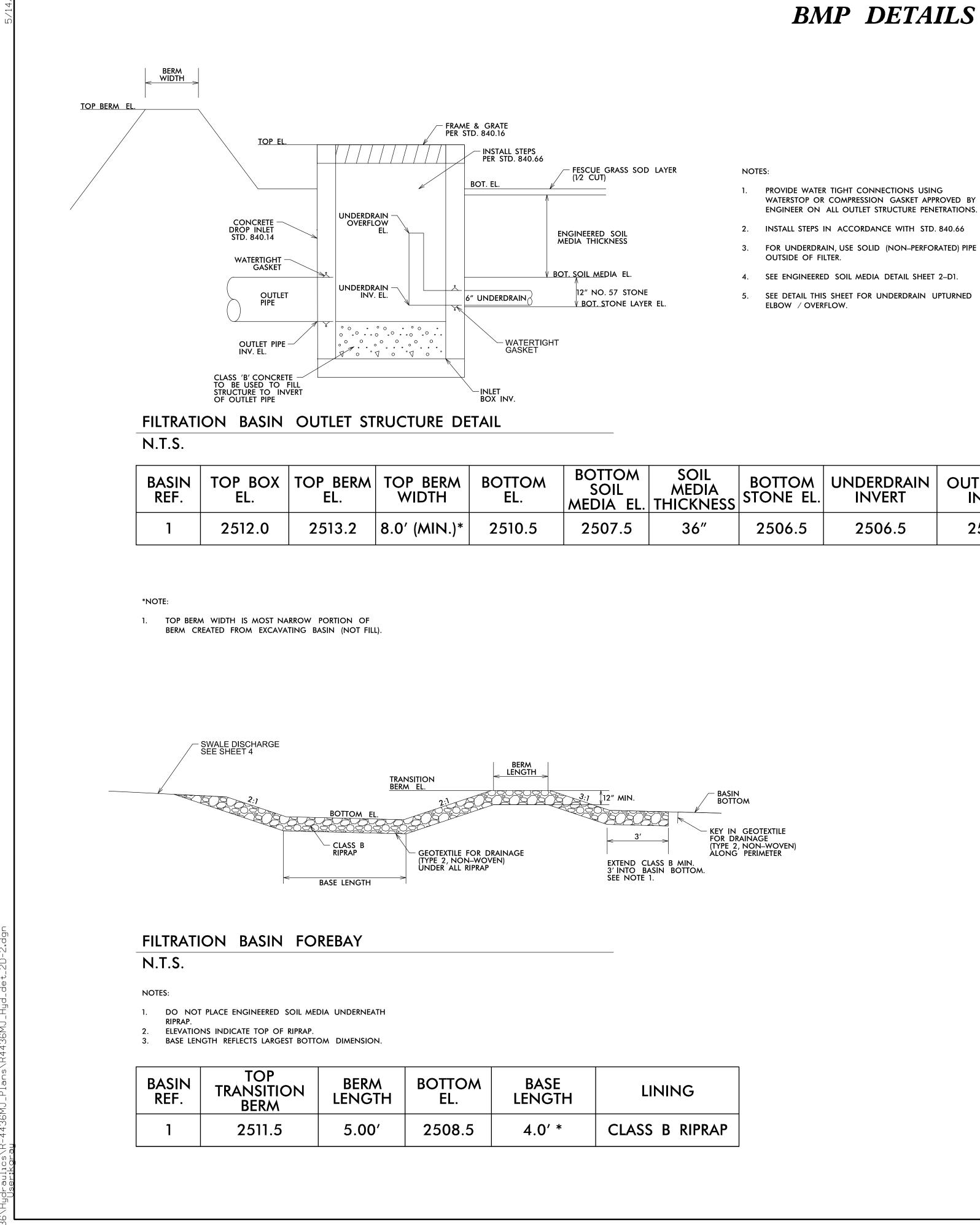
N.T.S



4. NO OVERLAPPING SHOULD OCCUR UNDER DRAIN PIPES.

- OVERLAP FABRIC

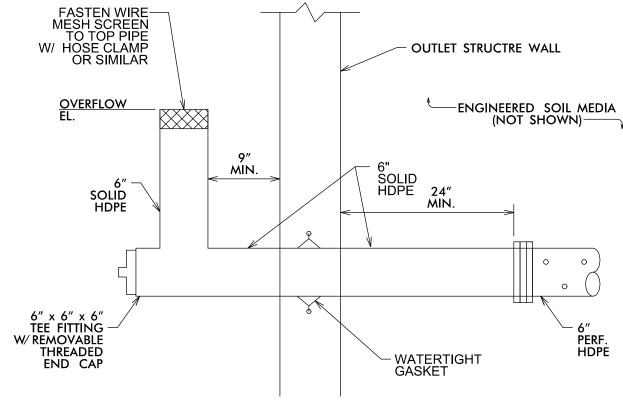
FABRIC INSTALLATION DETAIL



27

BMP DETAILS 2

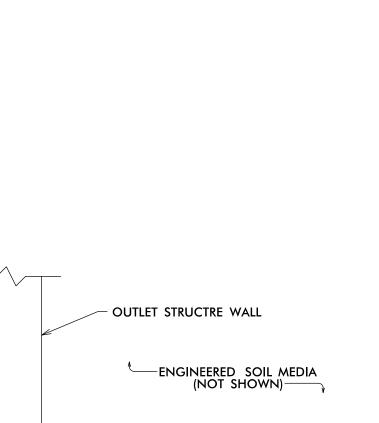
L	BOTTOM SOIL MEDIA EL.	SOIL MEDIA THICKNESS	BOTTOM STONE EL.	UNDERDRAIN INVERT	OUTLET PIPE INVERT	BOX INVERT	UNDERDRAIN OVERFLOW EL.
	2507.5	36″	2506.5	2506.5	2506.0	2505.0	2509.0



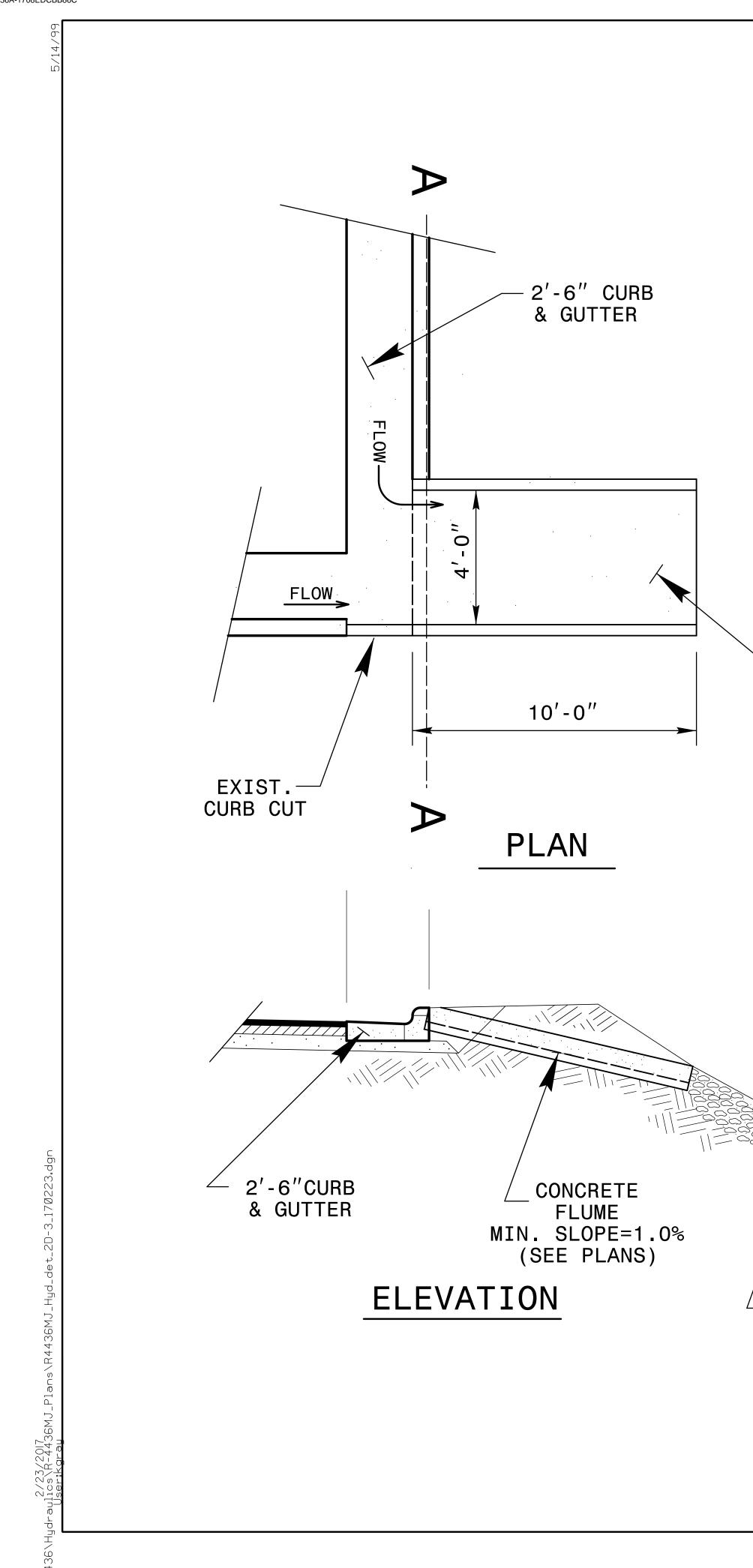
UNDERDRAIN UPTURNED ELBOW / OVERFLOW N.T.S.

SE GTH	LINING
D′ *	CLASS B RIPRAP

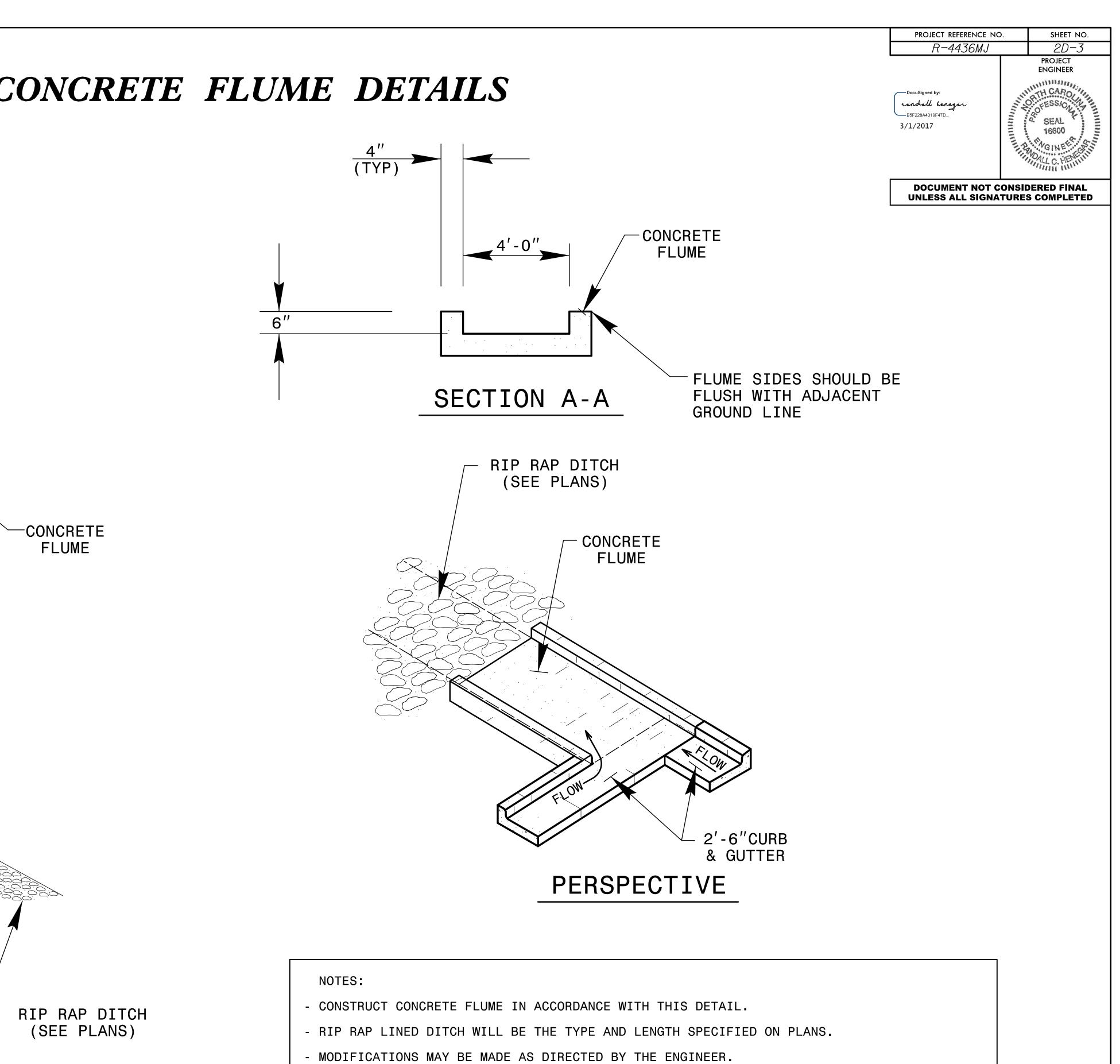




PROJECT REFERENCE NO R-4436MJ DocuSigned by: Kandy Hungar B5F228A4319F47D 4/21/2017	D. SHEET NO. 2D-2 PROJECT ENGINEER HCARO SEAL 16600	
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CONCRETE FLUME DETAILS



- THE FOLLOWING SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.C. ROADWAY SPECIFICATIONS, CONCRETE CURB AND GUTTER-SECTION 846, CONCRETE PAVED DITCH- SECTION 850.

SUMMARY OF EARTHWORK (for Stormwater BMP's)

		QUANTITY
ITEM DESCRIPTION	UNIT	PROJECT TOTALS
UNCLASSIFIED EXCAVATION	CY	415
ENGINEERED SOIL MEDIA	CY	74
WASHED NO. 57 STONE	TON	35
RIPRAP, CL B	TON	48

SUMMARY FOR EROSION CONTROL (for Stormwater BMP's)

		QUANTITY
ITEM DESCRIPTION	UNIT	PROJECT TOTALS
SEDIMENT CONTROL STONE (NO. 5 OR 57)	TON	12
EROSION CONTROL STONE CL. A	TON	22
EROSION CONTROL STONE CL. B	TON	16
SEEDING & MULCHING	ACR	0.2
SODDING	SY	356
WATER	MG	12
1/4" HARDWARE CLOTH	LF	40

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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

DRAINAGE SUMMARY (for Stormwater BMP's)

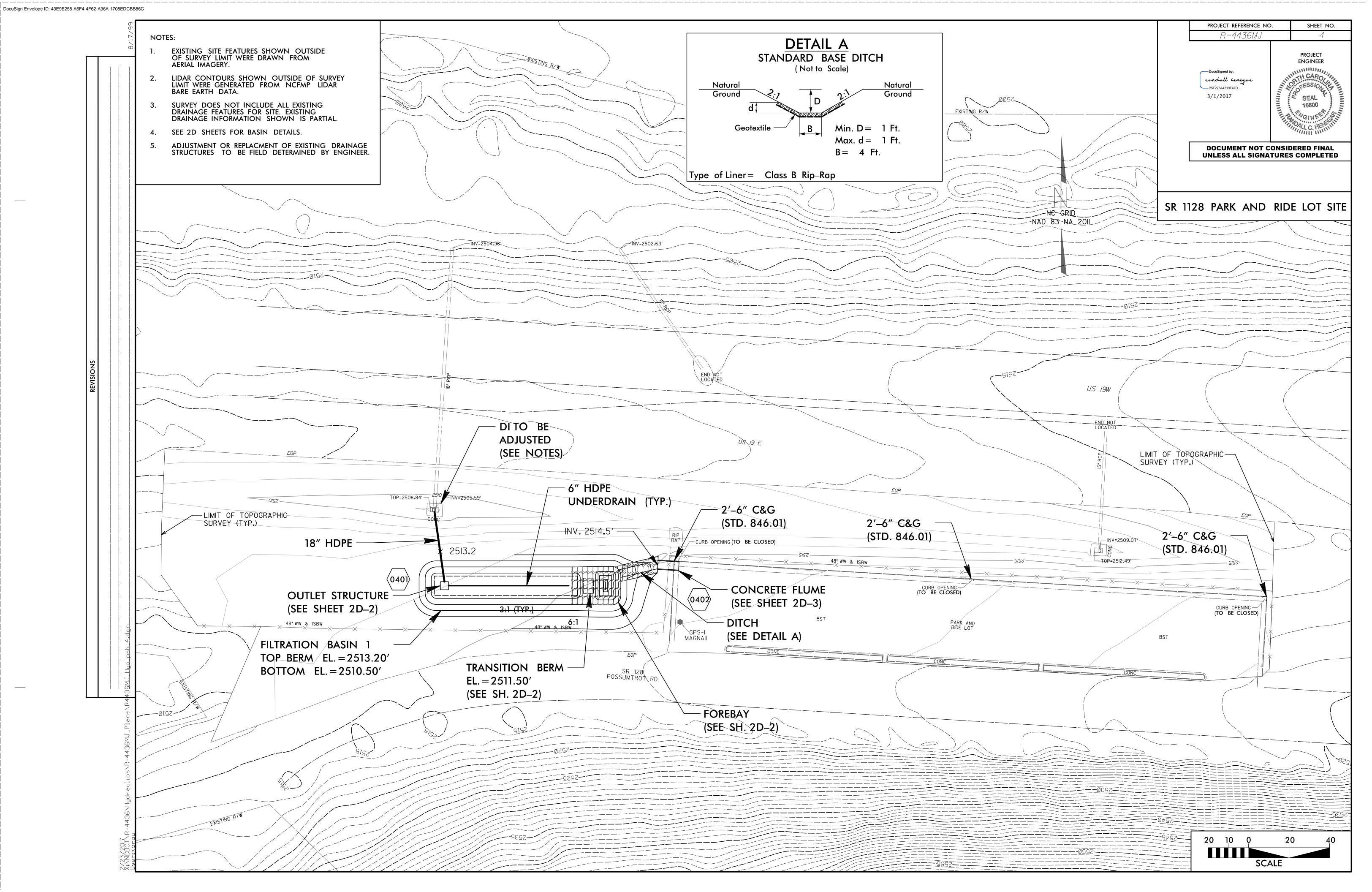
		QUANTITY
ITEM DESCRIPTION	UNIT	PROJECT TOTALS
DRAINAGE DITCH EXCAVATION	CY	5
CONCRETE FLUME	LS	1
REMOVAL OF EXISTING CONCRETE PAVEMENT (CURB REMOVAL)	SY	1
2'-6" CONCRETE CURB AND GUTTER	LF	12
UNDERDRAIN PIPE – 6" HDPE PERFORATED	LF	60
UNDERDRAIN PIPE – 6" HDPE NONPERFORATED	LF	8
18" HDPE	LF	36
6" CAP (THREADED)	EA	2
6" x 6" x 6" HDPE TEE	EA	1
GEOTEXTILE FOR DRAINAGE (TYPE 2, NON-WOVEN)	SY	139
POLYPROPYLENE NONWOVEN GEOTEXTILE FABRIC	SY	149
OUTLET STRUCTURE BOX (840.14)	EA	1
FRAME & GRATE (840.16)	EA	1

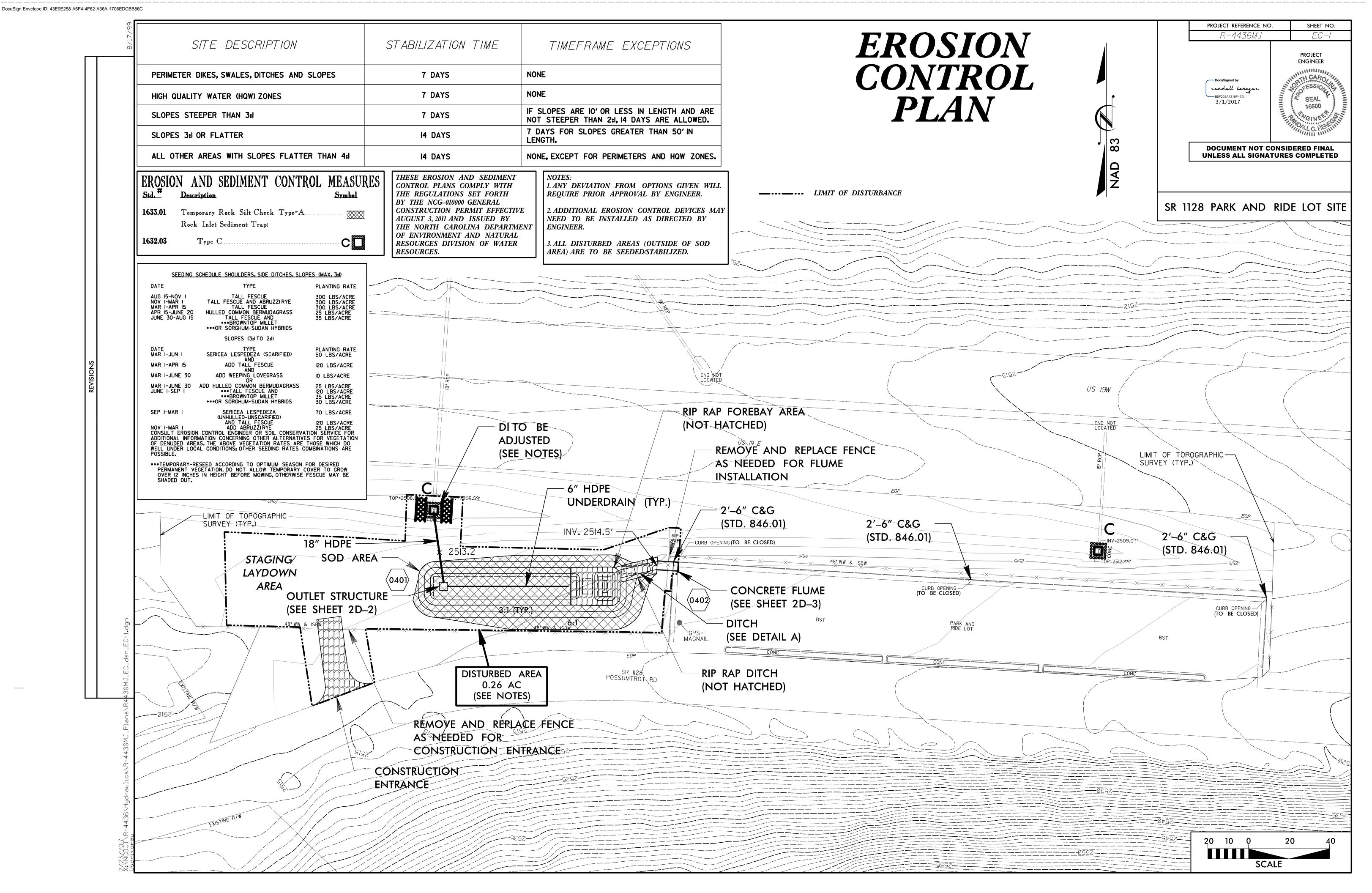
LIST OF PIPES								
E	н	DPE PIPE						
REFERENCE	6" PERFORATED PIPE	6" SOLID	18"	REMARKS				
BASIN 1	60 8 36		36	SEE DETAILS ON SHEETS 2D-1 AND 2D-2				
TOTALS (FT)	60	8	36					

	LIST OF STRUCTURES							
STRUCTURE NO.	DESCRIPTION	TOP ELEVATION	INVERT ELEVATION*	D.I. STD. 840.14	D.I. FRAME WITH TWO GRATES STD. 840.16	CONCRETE FLUME	REMARKS	
0401	BASIN OUTLET STRUCTURE	2512.0	2505.0	1	1		EXTRA DEPTH BOX: PER EACH (0' THRU 5.0') = 1, 5.0' THRU 10.0'= 2 LIN. FT. (FIELD VERIFY).	
0402	FLUME OUTLET FROM PARKING LOT					1	*SEE SHEET 2D-2 FOR PIPE INVERT ELEVS. SEE DETAIL ON SHEET 2D-3	
TOTALS (FT)				1	1	1		

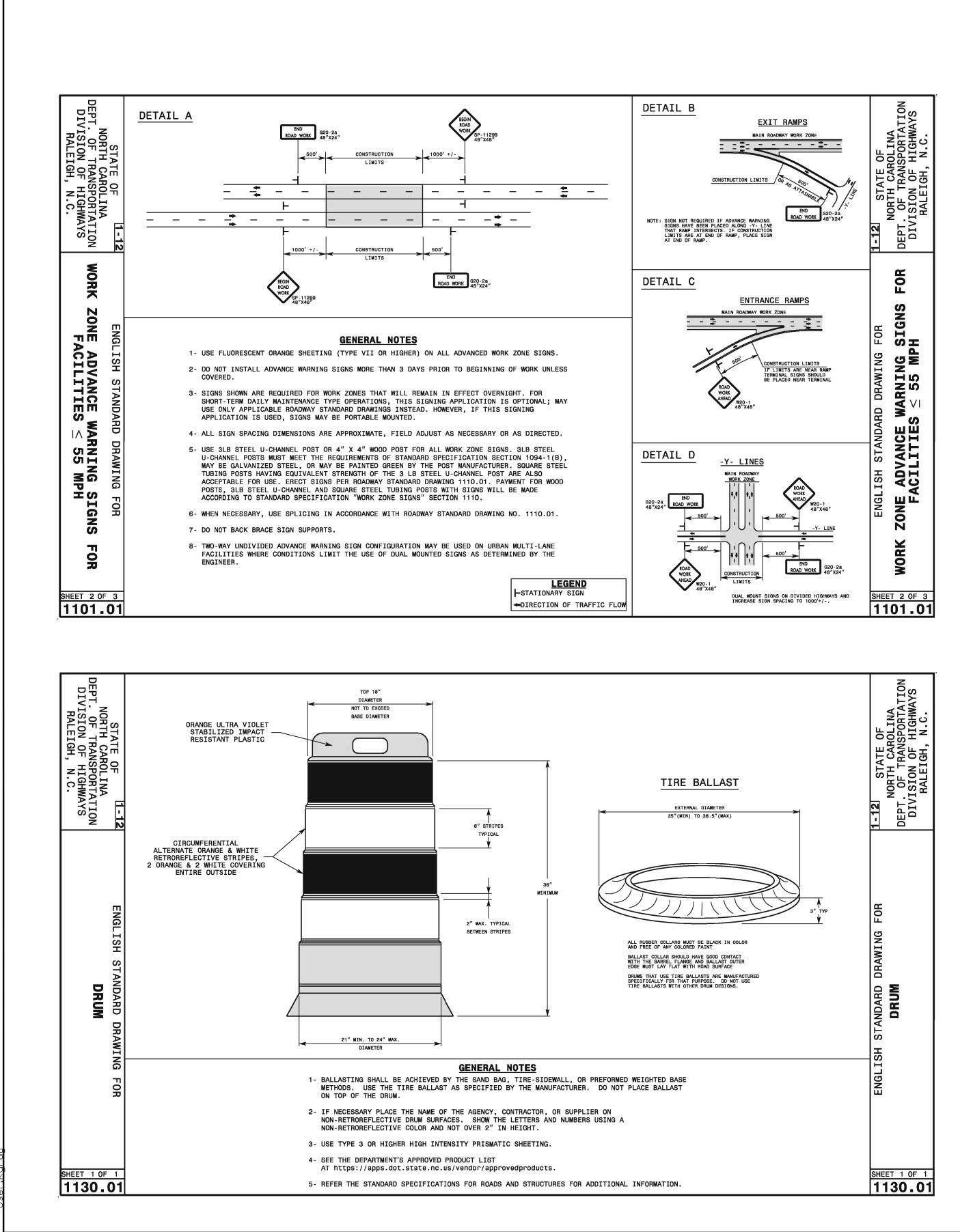
PROJECT REFERENCE NO	SHEET NO.		
R-4436MJ		3B/3D	
DocuSigned by: Randy Henegar B5F228A4319F47D	and a second second	PROJECT ENGINEER	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED









TRAFFIC CONTROL PLAN

