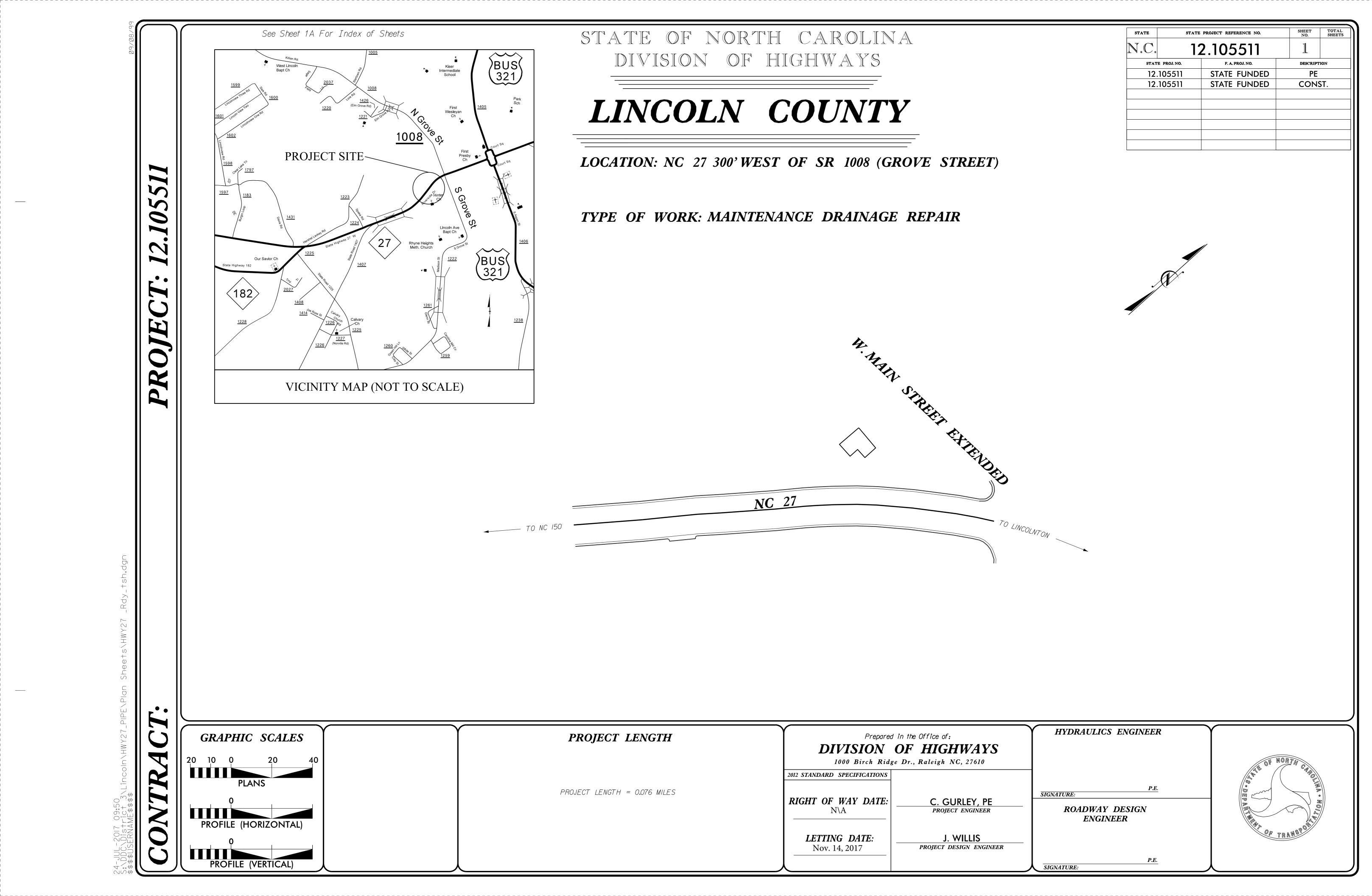
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PROJECT REFERENCE NO.	SHEET NO.
12.105511	/A

INDEX OF SHEETS

SHEET NUMBER SHEET

1 TITLE SHEET

1A INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS

1B CONVENTIONAL SYMBOLS

1C-1 SURVEY CONTROL SHEETS

2A-1 PAVEMENT SCHEDULE AND TYPICAL SECTIONS

3D-1 DRAINAGE SUMMARIES

4 PLAN SHEET

TMP-1 THRU TMP-2 TRAFFIC MANAGEMENT PLANS

EROSION CONTROL PLANS

EC-1

GENERAL NOTES: 2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 01-24-2017

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE AT&T, CHARTER CABLE,

TIMEWARNER CABLE, CITY OF LINCOLNTON, AND PIEDMONT NATURAL GAS.

EFF. 01-17-2012 REV. 05-24-2017

2012 ROADWAY ENGLISH STANDARD DRAWINGS

876.02 Guide for Rip Rap at Pipe Outlets

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch – N. C. Department of Transportation – Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. DIVISION 3 - PIPE CULVERTS 300.01 Method of Pipe Installation DIVISION 6 - ASPHALT BASES AND PAVEMENTS 654.01 Pavement Repairs DIVISION 8 - INCIDENTALS 840.00 Concrete Base Pad for Drainage Structures 840.01 Brick Catch Basin - 12" thru 54" Pipe 840.02 Concrete Catch Basin - 12" thru 54" Pipe 840.03 Frame, Grates and Hood - for Use on Standard Catch Basin 840.14 Concrete Drop Inlet - 12" thru 30" Pipe 840.15 Brick Drop Inlet – 12" thru 30" Pipe 840.16 Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15 840.31 Concrete Junction Box - 12" thru 66" Pipe 840.32 Brick Junction Box - 12" thru 66" Pipe 840.34 Traffic Bearing Junction Box - for Use with Pipes 42" and Under 840.45 Precast Drainage Structure 840.46 Traffic Bearing Precast Drainage Structure 840.54 Manhole Frame and Cover 840.66 Drainage Structure Steps 840.71 Concrete and Brick Pipe Plug 846.01 Concrete Curb, Gutter and Curb & Gutter

CONVENTIONAL PLA

BOUNDARIES AND PROPERTY	Y •	RAILROADS: Note: Not to S	Scale *S
State Line			++++++
County Line		Standard Gauge	CSX TRANSPORTATION
Township Line		RR Signal Milepost Switch	MILEPOST 35
City Line		RR Abandoned	SWITCH
Reservation Line —			
Property Line		RR Dismantled	
Existing Iron Pin	<u></u>		
Computed Property Corner	×	RIGHT OF WAY & PROJECT CO)NTROL: ▲
Property Monument	 ECM	Secondary Horiz and Vert Control Point ——	•
Parcel/Sequence Number —		Primary Horiz Control Point	
Existing Fence Line	×××_	Primary Horiz and Vert Control Point	•
Proposed Woven Wire Fence		Exist Permanent Easment Pin and Cap ———	\Diamond
Proposed Chain Link Fence		New Permanent Easement Pin and Cap —	
Proposed Barbed Wire Fence		Vertical Benchmark ————————————————————————————————————	
Existing Wetland Boundary		Existing Right of Way Marker	\triangle
Proposed Wetland Boundary		Existing Right of Way Line	
Existing Endangered Animal Boundary		New Right of Way Line	$\frac{R}{W}$
Existing Endangered Plant Boundary		New Right of Way Line with Pin and Cap—	$-\frac{R}{W}$
	нрв		•
Known Contamination Area: Soil	😿 s 😿 -	New Right of Way Line with Concrete or Granite R/W Marker	-
Potential Contamination Area: Soil		New Control of Access Line with	
Known Contamination Area: Water		Concrete C/A Marker	
Potential Contamination Area: Water ——		Existing Control of Access	——————————————————————————————————————
Contaminated Site: Known or Potential —		New Control of Access ——————————————————————————————————	
BUILDINGS AND OTHER CUL		Existing Easement Line ————————————————————————————————————	—— E ———
		New Temporary Construction Easement –	——Е——
Gas Pump Vent or U/G Tank Cap	<u> </u>	New Temporary Drainage Easement ——	TDE
Sign —	Š 	New Permanent Drainage Easement ——	PDE
Small Mine		New Permanent Drainage / Utility Easement	——DUE——
Sman //inc	—	New Permanent Utility Easement ———	PUE
Foundation ————————————————————————————————————		New Temporary Utility Easement ————	—— TUE ——
Area Outline		New Aerial Utility Easement —————	———AUE———
Cemetery			
Building —		ROADS AND RELATED FEATUR	ES:
School	<u> </u>	Existing Edge of Pavement	
Church		Existing Curb	
Dam —		Proposed Slope Stakes Cut	
HYDROLOGY:		Proposed Slope Stakes Fill —————	<u>F</u>
Stream or Body of Water —		Proposed Curb Ramp	CR
Hydro, Pool or Reservoir		Existing Metal Guardrail —————	
Jurisdictional Stream		Proposed Guardrail —————	_T_T_T_T_
Buffer Zone 1		Existing Cable Guiderail	
Buffer Zone 2		Proposed Cable Guiderail	
Flow Arrow — Disappearing Stream — Disappear		Equality Symbol	lacktriangle
		Pavement Removal	
Spring ————————————————————————————————————		VEGETATION:	
Wetland ————————————————————————————————————		Single Tree	- ඩ
Proposed Lateral, Tail, Head Ditch	< ── FLOW	Single Shrub	- භූ
False Sump ————————————————————————————————————	-		

Hedge —	······································	Water Manhole
Woods Line	_(;,_(;,_(;,_(;,_(;,_	Water Meter
Orchard —		Water Valve
Vineyard —		Water Hydrant
EXISTING STRUCTURES:		U/G Water Line LOS B (S.U.E*)
		U/G Water Line LOS C (S.U.E*)
MAJOR: Bridge, Tunnel or Box Culvert ————	CONC	U/G Water Line LOS D (S.U.E*)
Bridge Wing Wall, Head Wall and End Wall –		Above Ground Water Line
MINOR:) 50.10 (TV:
Head and End Wall	CONC HW	TV Pedestal ————————————————————————————————————
Pipe Culvert		TV Tower
Footbridge ————————————————————————————————————	·	U/G TV Cable Hand Hole
Drainage Box: Catch Basin, DI or JB	СВ	U/G TV Cable LOS B (S.U.E.*)
Paved Ditch Gutter		U/G TV Cable LOS C (S.U.E.*)
Storm Sewer Manhole	<u>(S)</u>	U/G TV Cable LOS D (S.U.E.*)
Storm Sewer	s	U/G Fiber Optic Cable LOS B (S.U.E.*
		U/G Fiber Optic Cable LOS C (S.U.E.
UTILITIES:		U/G Fiber Optic Cable LOS D (S.U.E.
POWER:	_	GAS:
Existing Power Pole	■	Gas Valve
Proposed Power Pole	O	Gas Meter
Existing Joint Use Pole Proposed Joint Use Pole	-	U/G Gas Line LOS B (S.U.E.*)
Power Manhole	P	U/G Gas Line LOS C (S.U.E.*)
Power Line Tower ————	\boxtimes	U/G Gas Line LOS D (S.U.E.*)
Power Transformer	\square	Above Ground Gas Line
U/G Power Cable Hand Hole		SANITARY SEWER:
H-Frame Pole	•	Sanitary Sewer Manhole
U/G Power Line LOS B (S.U.E.*)	P	Sanitary Sewer Cleanout —————
U/G Power Line LOS C (S.U.E.*)		U/G Sanitary Sewer Line —————
U/G Power Line LOS D (S.U.E.*)		Above Ground Sanitary Sewer ———
		SS Forced Main Line LOS B (S.U.E.*)
TELEPHONE:		SS Forced Main Line LOS C (S.U.E.*)
Existing Telephone Pole	-	SS Forced Main Line LOS D (S.U.E.*)
Proposed Telephone Pole —————	-0-	
Telephone Manhole ————————————————————————————————————	\bigcirc	MISCELLANEOUS:
Telephone Pedestal ————————————————————————————————————	T	Utility Pole
Telephone Cell Tower	—	Utility Pole with Base ————————————————————————————————————
U/G Telephone Cable Hand Hole ————		Utility Located Object —————
U/G Telephone Cable LOS B (S.U.E.*) ———		Utility Unknown UC Line LOS P (S.L.
U/G Telephone Cable LOS C (S.U.E.*) ——		Utility Unknown U/G Line LOS B (S.L
U/G Telephone Cable LOS D (S.U.E.*)		U/G Tank; Water, Gas, Oil ————— Underground Storage Tank, Approx. La
U/G Telephone Conduit LOS B (S.U.E.*)		A/G Tank; Water, Gas, Oil ————
U/G Telephone Conduit LOS C (S.U.E.*)——		Geoenvironmental Boring
U/G Telephone Conduit LOS D (S.U.E.*)		U/G Test Hole LOS A (S.U.E.*)
U/G Fiber Optics Cable LOS B (S.U.E.*) ——	— — — T F0— — ·	Abandoned According to Utility Record

U/G Fiber Optics Cable LOS C (S.U.E.*) ------

U/G Fiber Optics Cable LOS D (S.U.E.*)—— T FO ——

WATER:	
Water Manhole	- W
Water Meter	- 0
Water Valve	- ⊗
Water Hydrant	
U/G Water Line LOS B (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 Pedestal —	- C
TV Tower —	-
U/G TV Cable Hand Hole	O
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.*)	
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	
SANITARY SEWER:	
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	~
U/G Sanitary Sewer Line ————————————————————————————————————	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)——	– FSS – FSS
MISCELLANEOUS:	
Utility Pole	-
Utility Pole with Base —	- :
Utility Located Object —	- ·
Utility Traffic Signal Box —	- 5
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	-
Underground Storage Tank, Approx. Loc. —	
A/G Tank; Water, Gas, Oil ———————————————————————————————————	
Geoenvironmental Boring	
.	U

Abandoned According to Utility Records —

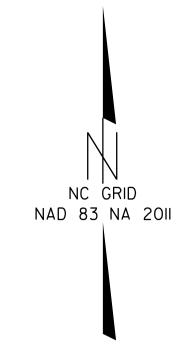
End of Information

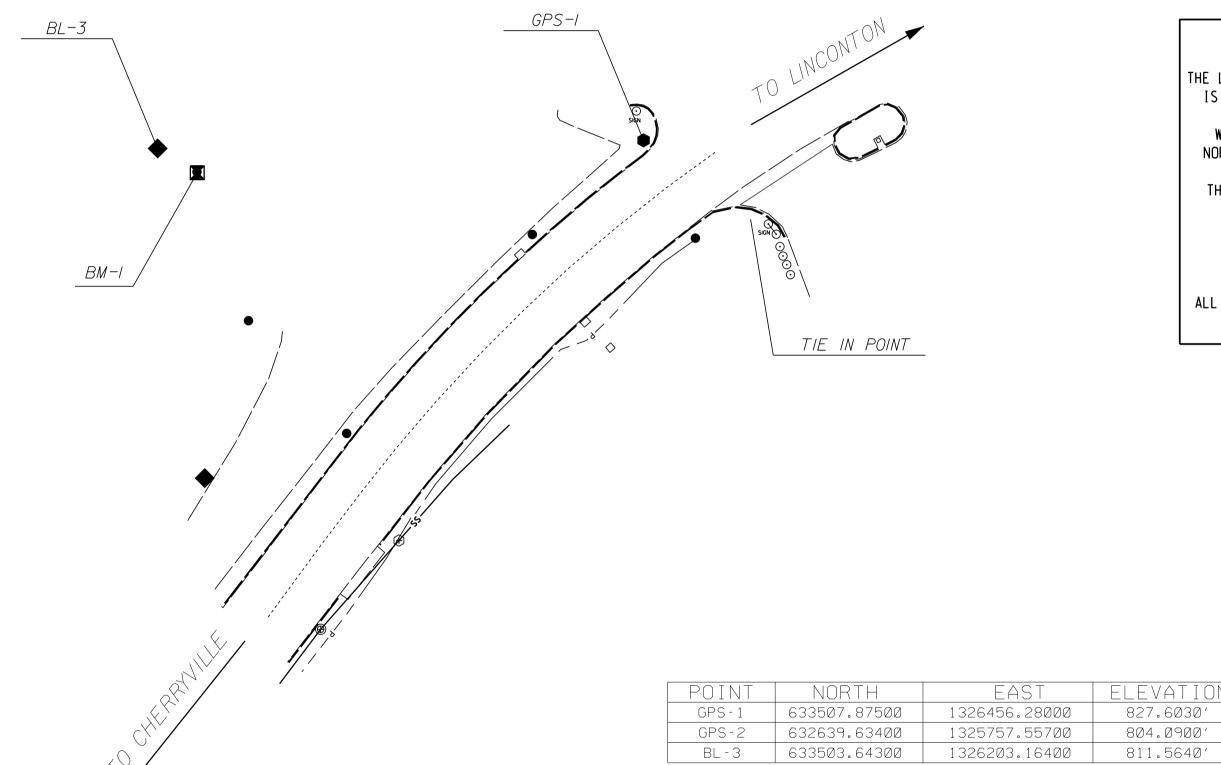
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E.O.I.

PROJECT REFERENCE NO. *12.*105511

SURVEY CONTROL SHEET





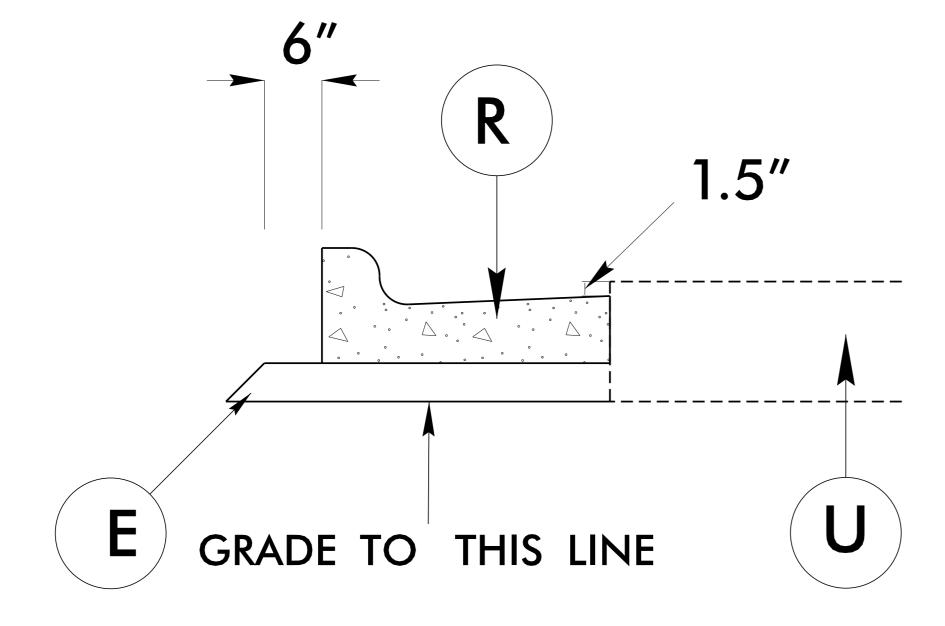
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 633507.0750(ft) EASTING: 1326456.2800(ft) ELEVATION: 804.090(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: .99984575 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-1" TO TIE IN POINT IS S 53°39′13″ E 69.20 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

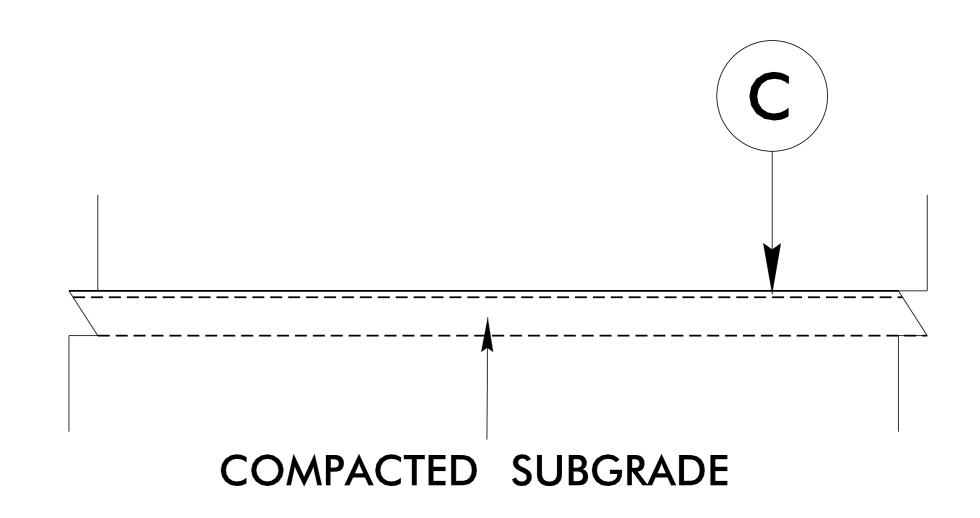
POINT	NORTH	EAST	ELEVATION
GPS-1	633507.87500	1326456.28000	827.6030′
GPS-2	632639.63400	1325757.55700	804.0900′
RI - 3	633503 64300	1326203 16400	911 5640/

BM POINT	NORTH	EAST	ELEVATION	DESCRIPTION
BM - 1	633491	1326223	814.54′	BENCH TIE IN POWER POLE

ROJECT REFERENCE NO. SHEET No. 12.105511 2A



NC 27 CURB REPAIR DETAIL



PARKING LOT REPAIR DETAIL

	PAVEMENT SCHEDULE
С	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
E	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R	2'6" CONCRETE CURB & GUTTER
U	EXISTING ASPHALT PAVEMENT

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

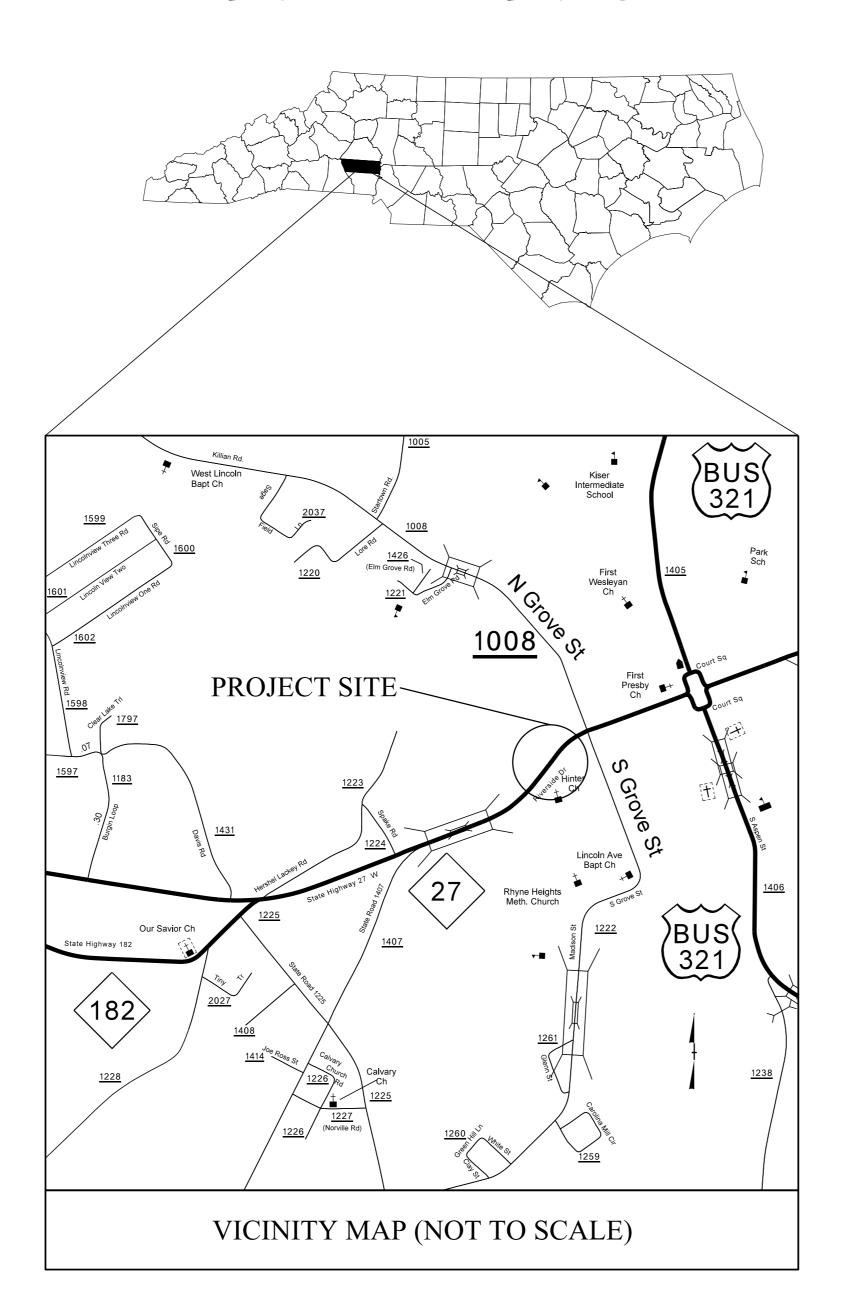
COMPUTE	BY: RTB							DATE: 7/2	1/2017																													PRO	JECT NO.		SHEET NO.
CHECKE	BY: BKS							DATE: 7/2	1/2017			NORTH CAROLINA DEPARTMENT OF TRANSPORTATION										12.105511		3D-1																	
DIVISION OF HIGHWAYS																_																									
Note: In	Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.																																								
	LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)																																								
	LIST OF FIFES, ENDWALLS, ETC. (FOR FIFES 40 INCHES & UNDER)																																								
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STATION	CL)'	ТОР ЕLEVATION	INVERT ELEVATION	INVERT EL EVATION	RITICA		DRAIN PIP	·Ε		(C.S. PIPE				S. PIPE ASS III				C. PIPE ASS IV		NS	N	STD. 838 838.11 C	01 N	FOR DRAINAGE STRUCTURES	*TOTAL L.F. FOR PA QUANTITY SHALL BE C 'A' + (1.3 X COL.'B')	FRAI GRAT AND H	TES.	SECT			8	840.24							C.B.	CATCH BASIN
	T, OR C	OP ELE	ERTE	ERT EL	OPE C																R DESI	R DESI	STD. 838	80	E o	*TOT SUANT	STAND 840.	DARD 2	CONC	40.16		. 840.2 840.24	S STD.		l	840.71	2.72				NARROW DROP INI DROP INLET
	(LT, RT,	٦	N	N	S																RACTO	засто	(UNLES NOTED				040.	.03		STD. 8	840.27 840.28	. 840.24 :S STD E STD.	3RATE		& SIZE	. STD.	STD. 840			G.D.I.	GRATED DROP INL (NARROW SLOT)
CIZE	ATION				-	2" 15" 18" 2	4" 30" 36" 42"	40"	10"	" 15" 18" 2	24" 20" 26	S" 40" 40"	10" 15"	10" 24"	20" 26"	40" 40"	10" 15"	10" 24"	30" 36"	40" 40"	CONTE	CONTR	OTHERWI			LIN. FT.	. 840.02		840.15	AATES	18 OR	GRATE	OMT.		VS NO.	JG, C.Y.	C.Y.S		G	3.D.I.(N.S.) J.B.	JUNCTION BOX
SIZE	³					2 15 16 2	4 30 30 42	- RCP	\vec{\vec{\vec{v}}}	15 16 2	24 30 30	0 42 40	12 15	10 24	30 30 .	42 40	12 15	10 24	30 36	42 40	ASS V) ERTS,	ERTS,	E CO. TAN	0 5:0)	A A	В	RSTD		STD.	TWO GF	D. 840	H GRAT H TWO	E WITH	STING	ELBOV	PE PLUG,	CL. "B"	Ŗ.		M.H. T.B.D.I.	MANHOLE TRAFFIC BEARING
THICKNESS									SE												E (CL/	CULV	AIN PI	P. 60'THB	10.0'	ABOVE	O TABE	OF	IIN 0.14 OF	WITH T	"B" ST	E WITH	FRAME 0.34	T EXI	B B B	IICK PII	LARS (VAL LII		T.B.J.B.	DROP INLET TRAFFIC BEARING
OR GAUGE	FB	임						DO NOT DO NOT DO NOT L	DO NO .064	0.064	.079	109 1.									a.c. PIPE	IDE DE	IDE DRA	C.S.F	THRU 10	AND A	GRA	RE B	H BAS	RAME	TYPE	FRAM (N.S.)	(N.S.)	ONVE	DRAIR	% BB	. COL	REMO			JUNCTION BOX
																					: :	***" R	18" S	EB		10.01	E F	G BORO	CATC D.I. S	D.I. F G.D.I.	G.D.I. G.D.I.	G.D.I. G.D.I.	G.D.I.	D.I. C	SIDE	CONC	CONC	PPE		REMA	ARKS
	401 402	828.4 822.5		-		+++			++	+++		++				+		+		-			+		1			+	++	++			1	1					60 15" RCF	DNVERT EXISTING	
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	404	822.3	38																															1					C.B. CC	ONVERT EXISTING	
	402 405		818.7 67	72 817.8		+++			++			++		46		++		+					+	-	1			++-	+ +				1						T.B.J.B.		
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	406 405			24 812.84		+++			++			++		43		+		+						-	1								1				+		T.B.J.B.		
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PROJECT REFERENCE NO. 12.105511 NOTE: ALL ABANDONED DRAINAGE PIPES TO BE PLUGGED AND FILLED WITH FLOWABLE FILL. ALL CONVERTED CATCH BASINS AND DI TO BE FILLED WITH FLOWABLE FILL WITH THE LAST 8 INCHES FILLED WITH CLASS B CONCRECTE TO NEW FLOW LINE OF PIPES. FLOWABLE FILL-KEEP EQUIPMENT OUT THIS AREA 15' X 6' CLASS B RIP RAP PAD JB w/Slab Lid FLOWABLE FILL EST. 6 TONS CLASS B FLOWABLE FILL EST. 10 SY FILTER FABRIC REPLACE C&G PLUG~ - GUARD POSTS Conv. OTCB To CB AS NEEDED REMOVE EXISTING PIPE TO HERE (APPROX.) PLUG -FLOWABLE FILL & PLUG REMAINING PIPE PLUG Conv. OTCB To CB TB JB w/Slab Lid TB JB w/Slab Lid TB JB w/Slab J 24" RCP-III REPLACE C&G// FLOWABLE FILL PIPE AND STRUCTURE w/Slab Lid AS NEEDED TO NEW PIPE FLOW LINE 24" HDPE PRIVATE SEWERLINE NOTE: REPAIR PARKING LOT EXACT LOCATION UNKNOWN DAMAGED BY CONSTRUCTION AS DIRECTED BY ENGINEER. 100 FT. OF 24" HDPE PIPE TO BE SUPPLIED BY OTHERS. PAVEMENT REPAIR PER STANDARD DRAWING 654.01. TOP OF CASING ELEV. 816.20'

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

LINCOLN COUNTY



INDEX OF SHEETS

SHEET NO.

TMP-1A

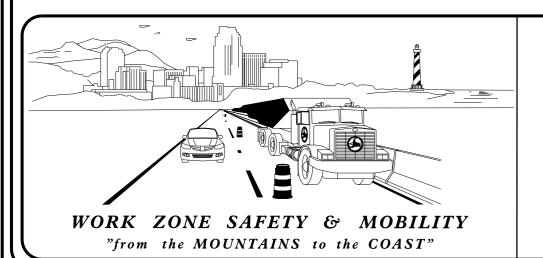
TITLE

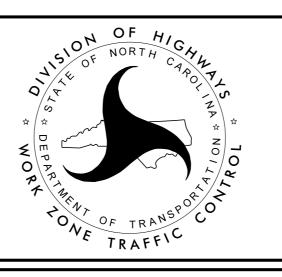
TMP-1 TITLE SHEET, VICINITY MAP, INDEX OF SHEETS

LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, MANAGEMENT STRATEGIES, GENERAL AND LOCAL NOTES

12.10551

PROJECT:





GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

Any Road

MONDAY THRU FRIDAY 7:00AM TO 9:00AM

& 4:00PM TO 6:00PM

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

ANY ROAD

HOLIDAY

- 1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 A.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY AND 7:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

FOR THE BATTLE OF RAMSOUR MILL REENACTMENT OCCURRING AT IN JUNE BETWEEN 2 HOURS BEFORE THE START AND 2 HOURS AFTER THE END OF THE THE BATTLE OF RAMSOUR MILL REENACTMENT.

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- I) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

LOCAL NOTES

MAINTAIN DRIVEWAY ACCESS TO ALL PARCELS DURING CONSTRUCTION.

TRAFFIC SHALL BE MAINTAINED DURING OPEN CUTTING OPERATIONS FOR UTILITY CONSTRUCTION. ONLY ONE LANE MAY BE CLOSED AT ANY GIVEN TIME.

MANAGEMENT STRATEGIES

THE CONSTRUCTION OF THIS PROJECT WILL BE COMPLETED USING TEMPORARY LANE CLOSURES AS NEEDED.

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO. TITLE

1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM



TRANSPORTATION OPERATIONS PLAN

 PROJECT REFERENCE NO.
 SHEET NO.

 12.105511
 EC-1/CONST.4

PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

Place Matting for Erosion Control

on All Disturbed Slopes as

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"—Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence

1606.01 Special Sediment Control Fence 1632.03 Rock Inlet Sediment Trap Type C

1621 01 Matting Installation

EROSION AND SEDIMENT CONTROL MEASURES

<u>Séd. #</u>	<u>Description</u>	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1632.03	Туре С	СП

Place Matting for Erosion Control on Finished Grade of All Areas
Where Pipe is Installed as
Work Allows

15' by 6' Class B Rip Rap
With Filter Fabric.
Estimated 6 Ton Class B Stone
Estimated 10 SY Filter Fabric

Work Allows REPLACE C&G AS NEEDED Conv. OTCB To CB TB JB wSlab Lid REPLACE C&G AS NEEDED REPLACE C&G AS NEEDED TO US AND STATE OF THE CONTROL OF THE C

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STR.*	TO STR.*	SIDE	ESTIMATE (SY)
EC-1	24" PIPE	0401	0402		112
	24" PIPE	0402	0403		25
	24" PIPE	0404	0405		67
	24" PIPE	0405	0406		50
	24" PIPE	0406	0407		135
	24" PIPE	0407	<i>0</i> U1		165
			5U8	STOTAL	554
MISCELLANE	DUS MATTING TO BE INSTA	ALLED AS DIRE	cted by the	eng i neer	554
				TOTAL	55 1
				SAY	575