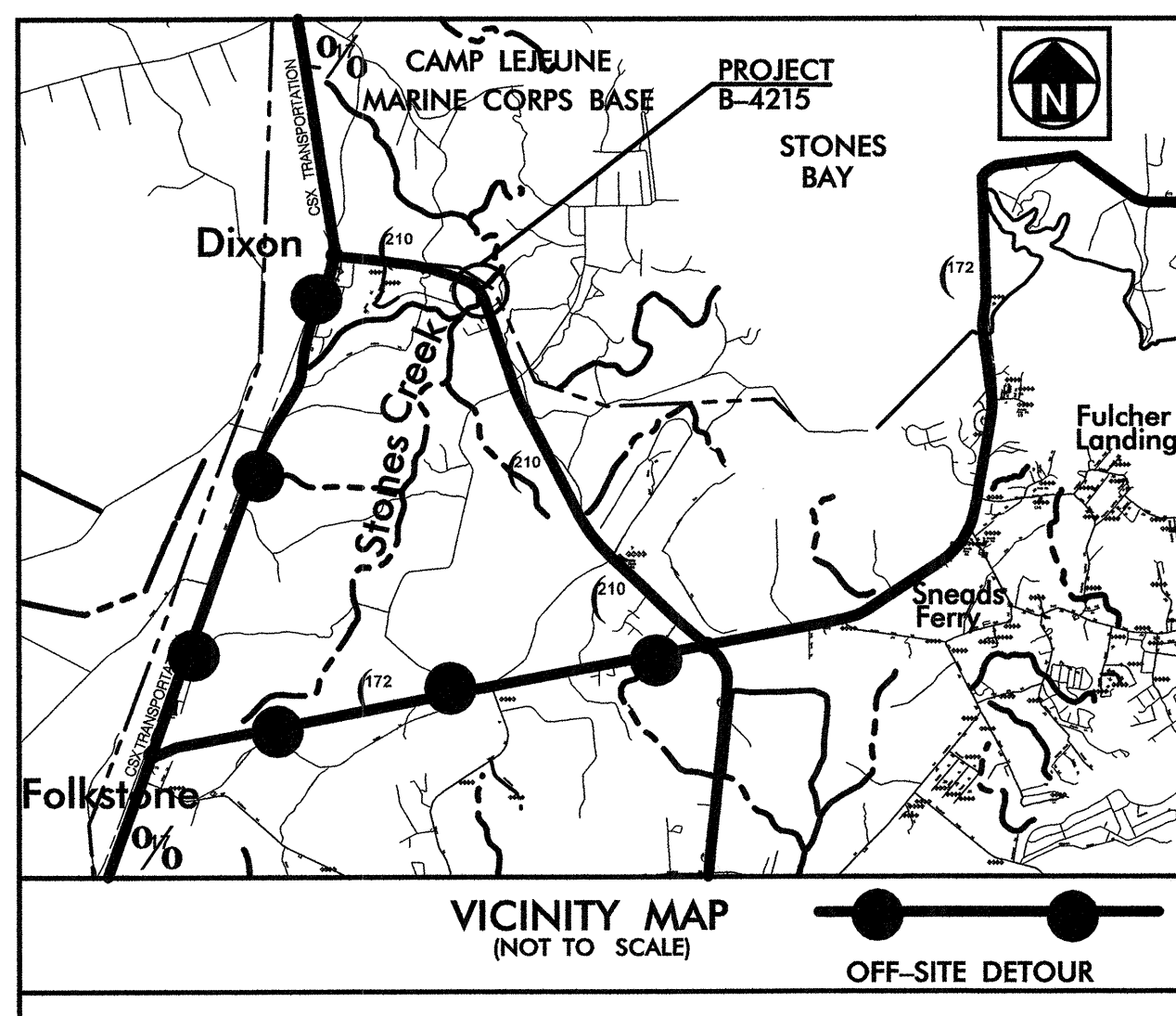


See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Conventional Symbols



# STATE OF NORTH CAROLINA

## DIVISION OF HIGHWAYS

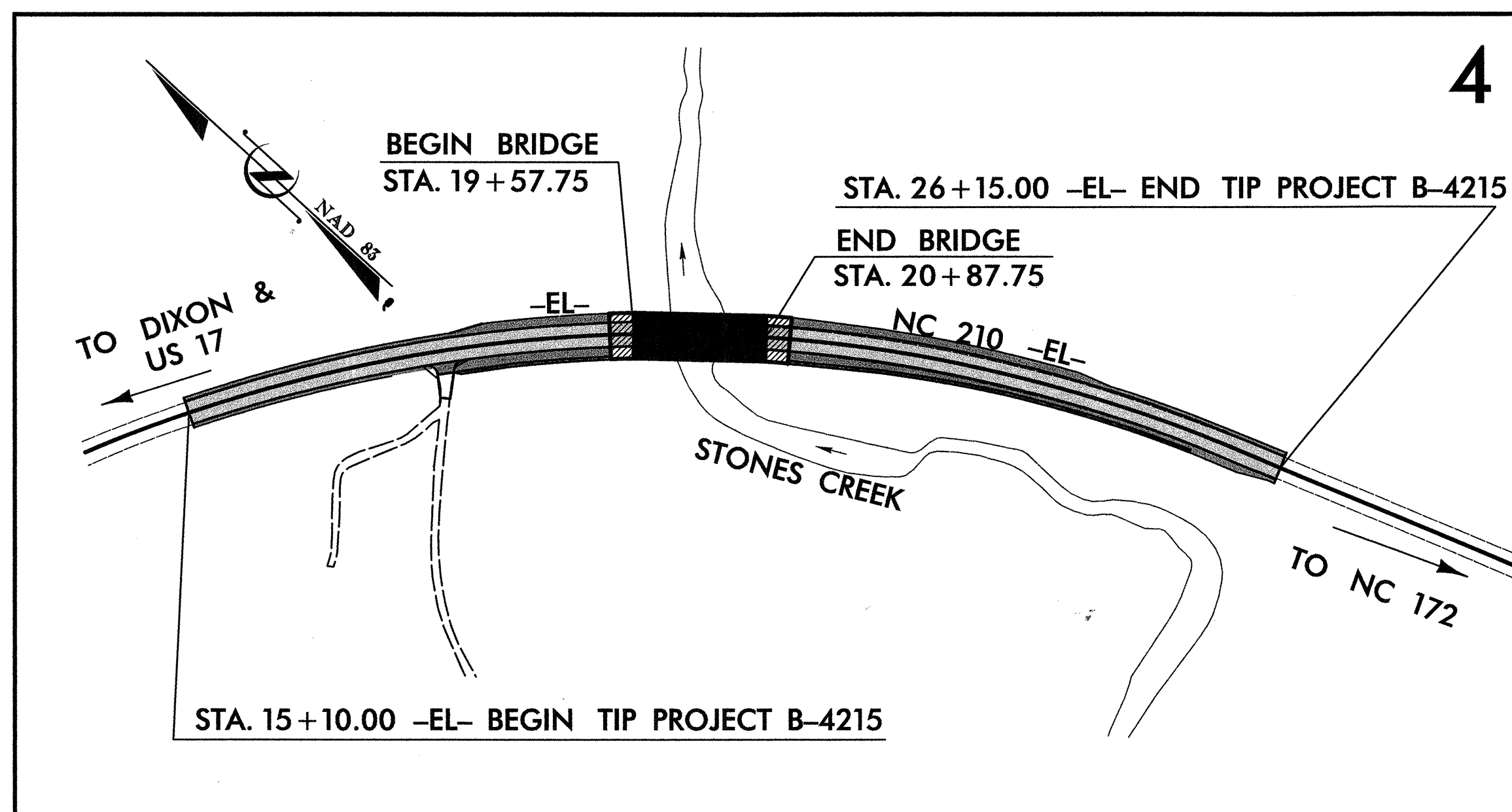
# ONSLOW COUNTY

LOCATION: BRIDGE NO. 19 OVER STONES CREEK AND APPROACHES ON NC 210

TYPE OF WORK: GRADING, PAVING, DRAINAGE, SIGNALS AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4215	1	
WBS NO.	F.A. PROJ. NO.	DESCRIPTION	
33561.1.1	BRSTP-0210(3)	P.E.	
33561.2.1	BRSTP-0210(3)	R /W,UTL	
33561.3.1	BRSTP-0210(3)	CONST	

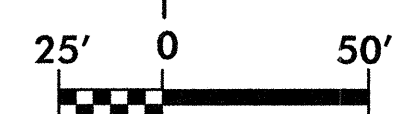
**CONTRACT: C201482**      **TIP PROJECT: B-4215**



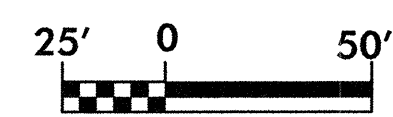
**MULKEY**  
ENGINEERS & CONSULTANTS

PO BOX 33127  
RALEIGH, N.C. 27636  
(919) 851-1912  
(919) 851-1918 (FAX)  
WWW.MULKEYINC.COM

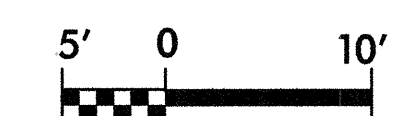
**GRAPHIC SCALE**



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

**DESIGN DATA**

ADT 2007 = 9,800  
ADT 2027 = 17,700  
DHV = 10%  
D = 60%  
\* T = 7%  
\*\* V = 55 mph

Func Class = Maj Coll - Rural  
\* (Duals = 4% + TTST = 3%)  
\*\* Design Exception - Sight Distance

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-4215 = 0.184 MILE  
LENGTH STRUCTURE TIP PROJECT B-4215 = 0.025 MILE  
TOTAL LENGTH TIP PROJECT B-4215 = 0.209 MILE

Prepared in the Office of:  
**Mulkey Engineers & Consultants**  
FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2006 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
FEBRUARY 18, 2005

**LETTING DATE:**  
AUGUST 21, 2007

**NC DOT CONTACT:** CATHY S. HOUSER, P.E.  
ROADWAY DESIGN - PROJECT ENGINEER

**T. S. HAYES, PE**  
MULKEY E & C  
PROJECT MANAGER

**JEFFREY L. RECK, PE**  
MULKEY E & C  
HYDRAULICS ENGINEER

**HYDRAULICS ENGINEER**



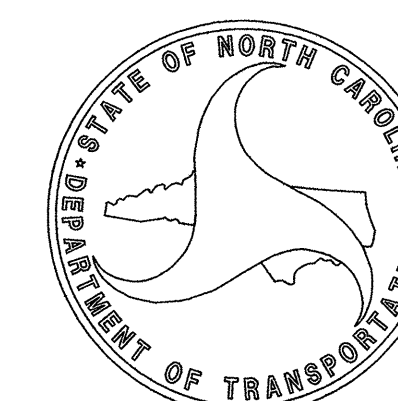
**JEFFREY L. RECK**  
SIGNATURE: PE

**ROADWAY DESIGN**



**CATHY S. HOUSER**  
SIGNATURE: PE

**DIVISION OF HIGHWAYS**  
**STATE OF NORTH CAROLINA**



**ant m. millan**  
STATE HIGHWAY DESIGN ENGINEER P.E.

PROJECT REFERENCE NO.	SHEET NO.
B-4215	1A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER PROFESSIONAL SEAL JEFFREY L. SCOTT 5/24/07	HYDRAULICS ENGINEER PROFESSIONAL SEAL JEFFREY L. RICK 028896

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS

## INDEX OF SHEETS

Sheet #	Description
1	Title Sheet
1-A	Index of Sheets, General Notes, & List of Standards
1-B	Conventional Symbols
1-C	Survey Control Sheet
2	Pavement Schedule & Typical Sections
2-A	Detail of Anchorage for Frames
3	Summary of Quantities
3-A	List of Pipe, Endwalls, Etc. (For Pipe 48" & Under), Guardrail Summary, Summary of Earthwork, & SUMMARY OF PAVEMENT REMOVAL
4	Plan and Profile
TCP-1 thru TCP-4	Traffic Control Plans
EC-1 thru EC-4	Erosion Control Plans
Sign-1 thru Sign-3	Signing Plans
Sig-1 thru Sig-3	Signal Plans
UC-1 thru UC-5	Utility Construction Plans
UO-1	Utilities by Others Plans
X-1 thru X-6	Cross Section Summary Sheet & Cross-Sections
S-1 thru S-22	Structure Plans

## GENERAL NOTES:

2006 SPECIFICATIONS  
EFFECTIVE: 07-18-06  
REVISED:

EFF. 07-18-06

### GRADE LINE: GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED 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.

### CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

### SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

### SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

### SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

### UNDERDRAINS:

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

### GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

### SUBSURFACE PLANS:

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

### END BENTS:

THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

### UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE SPRINT TELEPHONE, JONES-ONSLOW ELECTRIC

MEMBERSHIP CORPORATION, ONSLOW COUNTY WATER.

NORTH TOPSAIL UTILITIES.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

### RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

## 2006 ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superlevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
310.10	Driveway Pipe Construction
DIVISION 4 - MAJOR STRUCTURES	
422.10	Reinforced Bridge Approach Fills
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
815.03	Pipe Underdrain and Blind Drain
840.00	Concrete Base Pad for Drainage Structures
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.45	Precast Drainage Structure
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
862.01	Guardrail Placement
862.02	Guardrail Installation
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
862.03	Structure Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap



10/25/05

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

### BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin	○ EIP
Property Corner	_____
Property Monument	□ ECM
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-WLB-
Proposed Wetland Boundary	-WLB-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

### HYDROLOGY:

Stream or Body of Water	_____
Hydro, Pool or Reservoir	□
Jurisdictional Stream	-JS-
Buffer Zone 1	-BZ 1-
Buffer Zone 2	-BZ 2-
Flow Arrow	←
Disappearing Stream	→
Spring	○
Swamp Marsh	▽
Proposed Lateral, Tail, Head Ditch	_____
False Sump	▽

### RAILROADS:

Standard Gauge	_____
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	_____
RR Dismantled	_____

### RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
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 Marker	○
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	-E-
Proposed Temporary Construction Easement	-E-
Proposed Temporary Drainage Easement	-TDE-
Proposed Permanent Drainage Easement	-PDE-
Proposed Permanent Utility Easement	-PUE-

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	_____
Existing Curb	_____
Proposed Slope Stakes Cut	-C-
Proposed Slope Stakes Fill	-F-
Proposed Wheel Chair Ramp	○ WCR
Curb Cut for Future Wheel Chair Ramp	○ CCFR
Existing Metal Guardrail	_____
Proposed Guardrail	_____
Existing Cable Guiderail	_____
Proposed Cable Guiderail	_____
Equality Symbol	⊕
Pavement Removal	□

### VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	_____
Woods Line	_____
Orchard	_____
Vineyard	□ Vineyard

### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	_____ CONC
Bridge Wing Wall, Head Wall and End Wall	_____ CONC WW
MINOR:	
Head and End Wall	_____ CONC HW
Pipe Culvert	_____
Footbridge	_____
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	_____
Storm Sewer Manhole	○ S
Storm Sewer	-S-

### UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○ P
Power Line Tower	□
Power Transformer	□
U/G Power Cable Hand Hole	□ PH
H-Frame Pole	●
Recorded U/G Power Line	-P-
Designated U/G Power Line (S.U.E.*)	-P-

### TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○ T
Telephone Booth	□
Telephone Pedestal	□
Telephone Cell Tower	□
U/G Telephone Cable Hand Hole	□ PH
Recorded U/G Telephone Cable	-T-
Designated U/G Telephone Cable (S.U.E.*)	-T-
Recorded U/G Telephone Conduit	-TC-
Designated U/G Telephone Conduit (S.U.E.*)	-TC-
Recorded U/G Fiber Optics Cable	-T FO-
Designated U/G Fiber Optics Cable (S.U.E.*)	-T FO-

### WATER:

Water Manhole	○ W
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	-W-
Designated U/G Water Line (S.U.E.*)	-W-
Above Ground Water Line	-A/G Water-

### TV:

TV Satellite Dish	□
TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	□ PH
Recorded U/G TV Cable	-TV-
Designated U/G TV Cable (S.U.E.*)	-TV-
Recorded U/G Fiber Optic Cable	-TV FO-
Designated U/G Fiber Optic Cable (S.U.E.*)	-TV FO-

### GAS:

Gas Valve	◇
Gas Meter	◇
Recorded U/G Gas Line	-G-
Designated U/G Gas Line (S.U.E.*)	-G-
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 Sewer-
Recorded SS Forced Main Line	-FSS-
Designated SS Forced Main Line (S.U.E.*)	-FSS-

### MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	□
Utility Unknown U/G Line	-?UTL-
U/G Tank; Water, Gas, Oil	□
AG Tank; Water, Gas, Oil	□
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

# SURVEY CONTROL SHEET B-4215

**DATUM DESCRIPTION**

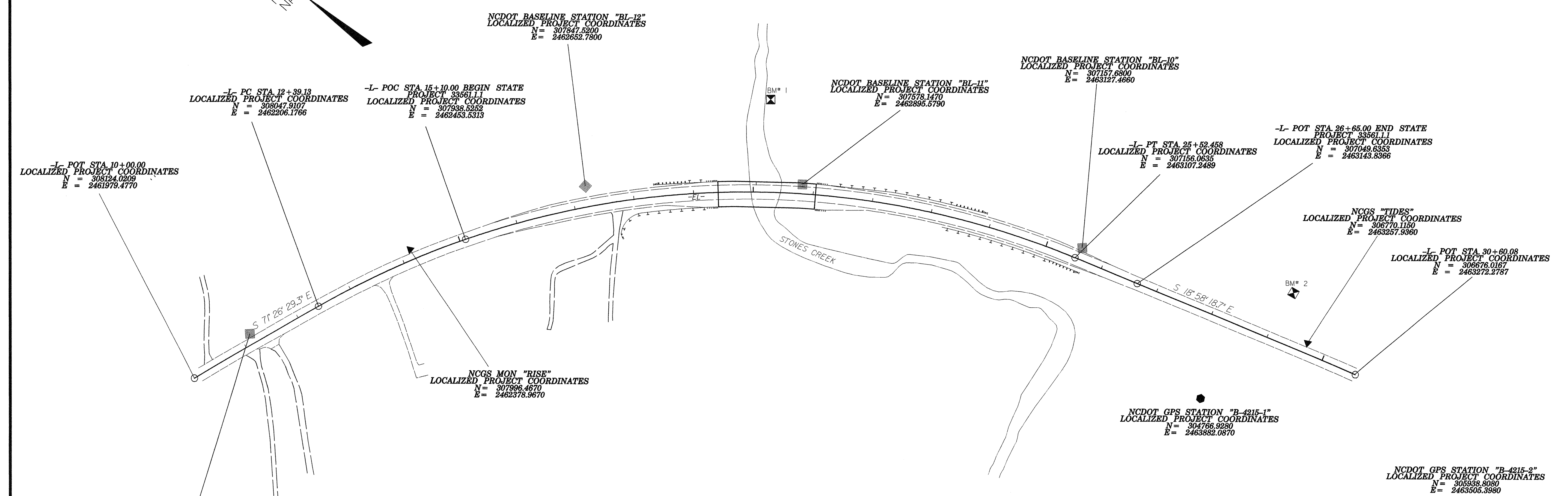
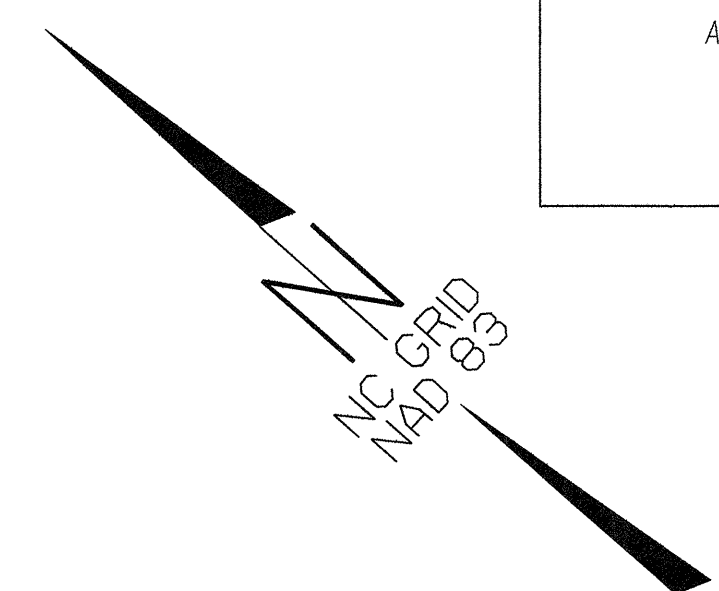
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "ATTACK" WITH MAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 308571.027 (E) EASTING: 2460596.836 (E) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99996500 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "ATTACK" TO -L- STATION 10+00 IS S 72 ° 05' 02.50" E 1453.10' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

### CONTROL DATA

-BL- POINT	DESC.	NORTH	EAST	ELEVATION	EL STATION	OFFSET
14	-BL-14	308103.1170	2462095.7890	36.16	11+16.92	17.20 LT
13	NCGS RISE	307996.4670	2462378.9670	29.38	14+17.66	17.09 LT
12	-BL-12	307847.5200	2462652.7800	18.95	17+23.98	34.38 LT
11	-BL-11	307578.1470	2462895.5790	16.52	20+80.89	15.26 LT
10	-BL-10	307157.6800	2463127.4660	17.93	25+57.50	19.64 LT
9	NCGS TIDES	306770.1150	2463257.9360	22.73	29+66.43	17.03 LT

### BENCHMARK DATA

.....  
 BM1 ELEVATION = 5.30  
 N 307714 E 2462968  
 EL STATION 20+25 157 LEFT  
 R/R SPIKE SET IN BASE OF A 30" OAK TREE  
 .....  
 BM2 ELEVATION = 29.40  
 N 306842 E 2463307  
 EL STATION 29+14 87 LEFT  
 R/R SPIKE SET IN BASE OF A 12" GUM TREE  
 .....



### NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project)  
 FILE NAME: B4215\_LS\_CONTROL\_041210.DGN
- SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- ⊗ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
- NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTS NAD 8395

NOTE: DRAWING NOT TO SCALE

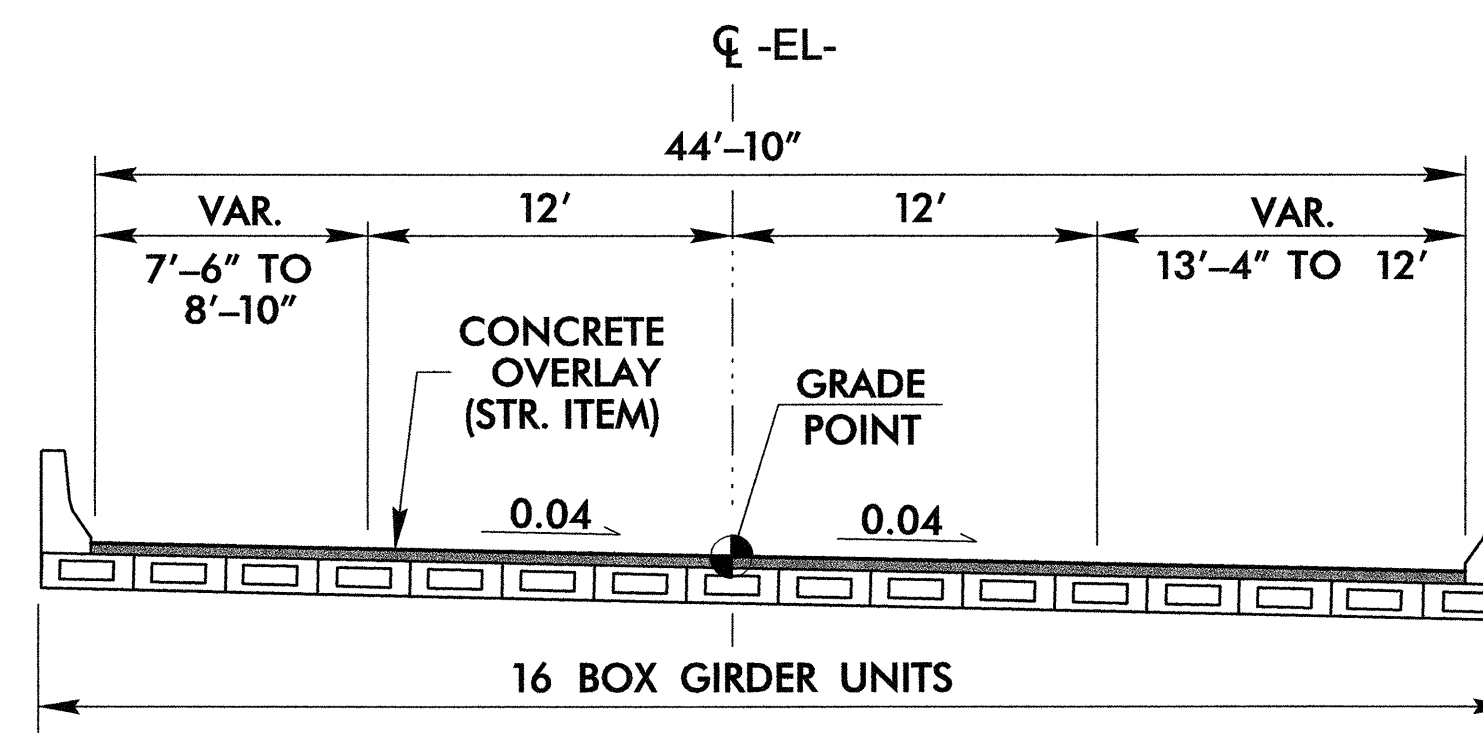
# PAVEMENT SCHEDULE

C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R	SHOULDER BERM GUTTER.
T	EARTH MATERIAL.

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

**MULKEY**  
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PO Box 33127  
Raleigh, N.C. 27636  
919 851-1912  
919 851-1918 FAX  
WWW.MULKEYINC.COM

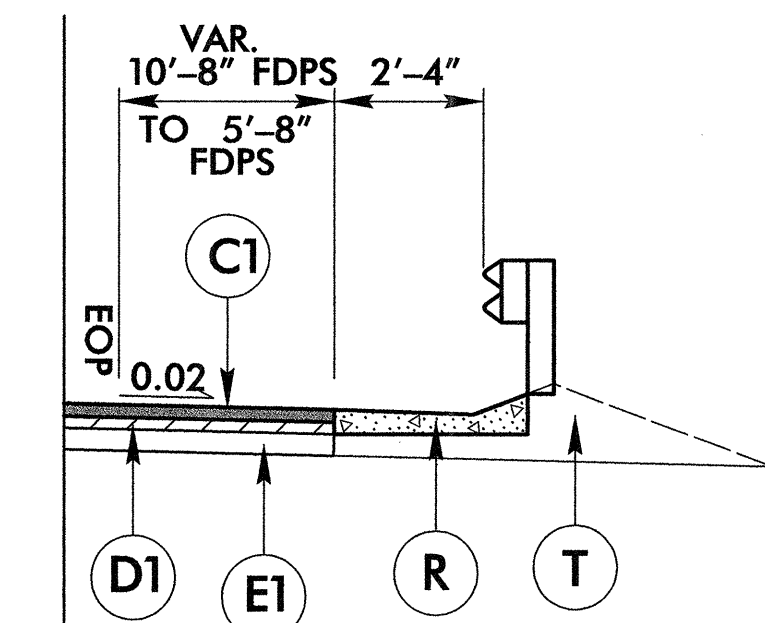
PROJECT REFERENCE NO. B-4215	SHEET NO. 2
ROADWAY DESIGN ENGINEER CLARK S. MORRISON 5/29/07	PAVEMENT DESIGN ENGINEER CLARK S. MORRISON 6-15-07



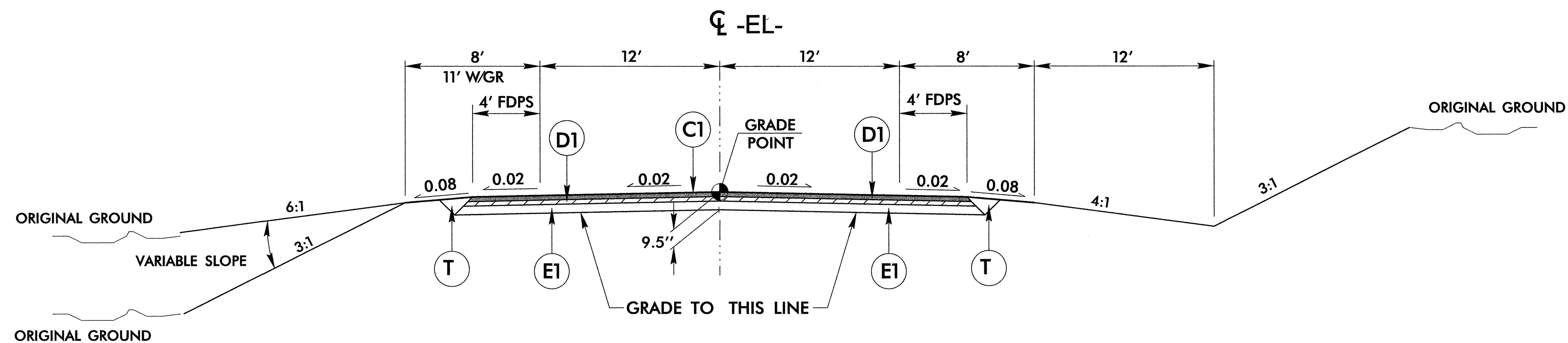
PROPOSED PRECAST BOX GIRDER BRIDGE  
SEE STRUCTURE PLANS

## TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2  
AT THE FOLLOWING LOCATION:  
-EL- STA 19+57.75 (BEGIN BRIDGE) TO STA 20+87.75 (END BRIDGE)



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 1  
-EL- STA 18+32.12 TO STA 19+33.75 RT. (APPROACH SLAB)  
-EL- STA 21+11.75 (APPROACH SLAB) TO STA 25+25.88 RT.



## TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1  
AT THE FOLLOWING LOCATION:  
-EL- STA 15+10.00 TO STA 19+57.75 (BEGIN BRIDGE)  
-EL- STA 20+87.75 (END BRIDGE) TO STA 26+15.00





8/17/99

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201482

PROJECT REFERENCE NO.	B-4215	SHEET NO.	3
RW SHEET NO.			
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER		

ItemNumber	Sec #	Quantity	Unit	Description
000010000-N	800	Lump Sum		MOBILIZATION
002900000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (20+22.75)
005000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING
005700000-E	226	200	CY	UNDERCUT EXCAVATION
006300000-N	SP	Lump Sum		GRADING
010600000-E	230	4,600	CY	BORROW EXCAVATION
019500000-E	265	100	CY	SELECT GRANULAR MATERIAL
019600000-E	270	100	SY	FABRIC FOR SOIL STABILIZATION
031800000-E	300	151	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
036600000-E	310	252	LF	15" RC PIPE CULVERTS, CLASS III
037200000-E	310	28	LF	18" RC PIPE CULVERTS, CLASS III
071400000-E	310	152	LF	18" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
080400000-E	310	4	EA	*** BIT COAT CS PIPE ELBOWS, TYPE B **** THICK (18", 0.064")
099500000-E	340	28	LF	PIPE REMOVAL
122000000-E	545	30	TON	INCIDENTAL STONE BASE
148900000-E	610	925	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
149800000-E	610	570	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B
151900000-E	610	670	TON	ASPHALT CONC SURFACE COURSE, TYPE 59.5B
156000000-E	620	115	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
202200000-E	815	23	CY	SUBDRAIN EXCAVATION
203300000-E	815	17	CY	SUBDRAIN FINE AGGREGATE
204400000-E	815	100	LF	6" PERFORATED SUBDRAIN PIPE
205500000-E	815	3	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS
206600000-N	815	1	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
207700000-E	815	6	LF	6" OUTLET PIPE (SUBDRAINS)
228600000-N	840	3	EA	MASONRY DRAINAGE STRUCTURES
236700000-N	840	3	EA	FRAME WITH TWO GRATES, STD 840.29
255600000-E	846	520	LF	SHOULDER BERM GUTTER
303000000-E	862	850	LF	STEEL BM GUARDRAIL
315000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
327000000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
331700000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77
362800000-E	876	670	TON	RIP RAP, CLASS I
364900000-E	876	57	TON	RIP RAP, CLASS B
365600000-E	876	922	SY	FILTER FABRIC FOR DRAINAGE
365900000-N	SP	2	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
402500000-E	901	5.3	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (D)
407200000-E	903	31	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
409600000-N	904	1	EA	SIGN ERECTION, TYPE D
415500000-N	907	5	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
440000000-E	1110	240	SF	WORK ZONE SIGNS (STATIONARY)
440500000-E	1110	96	SF	WORK ZONE SIGNS (PORTABLE)
441000000-E	1110	94	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
442000000-N	1120	2	EA	CHANGEABLE MESSAGE SIGN
443000000-N	1130	10	EA	DRUMS
443500000-N	1135	20	EA	CONES
444500000-E	1145	64	LF	BARRICADES (TYPE III)

ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
445000000-N	1150	1,440	HR	FLAGGER	601200000-E	1610	60	TON	SEDIMENT CONTROL STONE
465000000-N	1251	15	EA	TEMPORARY RAISED PAVEMENT MARKERS	601500000-E	1615	2	ACR	TEMPORARY MULCHING
468500000-E	1205	2,300	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	601800000-E	1620	100	LB	SEED FOR TEMPORARY SEEDING
468600000-E	1205	2,300	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	602100000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
481000000-E	1205	10,740	LF	PAINT PAVEMENT MARKING LINES (4")	602400000-E	1622	125	LF	TEMPORARY SLOPE DRAINS
483500000-E	1205	280	LF	PAINT PAVEMENT MARKING LINES (24")	602700000-N	1622	4	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
487000000-E	1205	110	LF	REMOVAL OF PAVEMENT MARKING LINES (24")	602900000-E	SP	200	LF	SAFETY FENCE
490000000-N	1251	15	EA	PERMANENT RAISED PAVEMENT MARKERS	603000000-E	1630	115	CY	SILT EXCAVATION
532620000-E	1510	121	LF	12" WATER LINE	603600000-E	1631	220	SY	MATting FOR EROSION CONTROL
532700000-E	1510	508	LF	20" WATER LINE	604200000-E	1632	80	LF	1/4" HARDWARE CLOTH
555200000-E	1515	2	EA	10" VALVE	607103000-E	SP	50	LF	COIR FIBER BAFFLES
555800000-E	1515	4	EA	12" VALVE	608400000-E	1660	2	ACR	SEEDING & MULCHING
570950000-E	1520	1,179	LF	10" FORCE MAIN SEWER	608700000-E	1660	1	ACR	MOWING
577100000-E	1520	435	LF	GENERIC UTILITY ITEM 18" PVC WATER PIPE (C905, DR18, 235 PSI)	609000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
580200000-E	1530	900	LF	ABANDON 10" UTILITY PIPE	609600000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
580400000-E	1530	1,400	LF	ABANDON 12" UTILITY PIPE	610800000-E	1665	1.5	TON	FERTILIZER TOPDRESSING
587210000-E	1550	408	LF	TRENCHLESS INSTALLATION OF 20" IN SOIL	611400000-N	SP	2	HR	SPECIALIZED HAND MOWING
587211000-E	1550	100	LF	TRENCHLESS INSTALLATION OF 20" NOT IN SOIL	611700000-N	SP	8	EA	RESPONSE FOR EROSION CONTROL
587600000-N	SP	6	EA	STEEL PILE PIERS	706000000-E	1705	637	LF	SIGNAL CABLE
588200000-N	SP	1	EA	GENERIC UTILITY ITEM 6" BLOW OFF	712000000-E	1705	6	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
600000000-E	1605	1,705	LF	TEMPORARY SILT FENCE	714400000-E	1705	1	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
600600000-E	1610	60	TON	STONE FOR EROSION CONTROL, CLASS A	726400000-E	1710	536	LF	MESSENGER CABLE (3/8")
600900000-E	1610	150	TON	STONE FOR EROSION CONTROL, CLASS B	730000000-E	1715	828	LF	UNPAVED TRENCHING (***** (1, 2"))
					732400000-N	1716	5	EA	JUNCTION BOX (STANDARD SIZE)
					736000000-N	1720	4	EA	WOOD POLE
					737200000-N	1721	8	EA	GUY ASSEMBLY
					740800000-E	1722	1	EA	1" RISER WITH WEATHERHEAD
					742000000-E	1722	4	EA	2" RISER WITH WEATHERHEAD
					744400000-E	1725	650	LF	INDUCTIVE LOOP SAWCUT
					745600000-E	1726	1,439	LF	LEAD-IN CABLE (***** (18-2))
					745600000-E	1726	12	LF	LEAD-IN CABLE (***** (18-4))
					763600000-N	1745	2	EA	SIGN FOR SIGNALS
					776800000-N	1751	1	EA	CONTROLLER WITH CABINET (TYPE 2070L, POLE MOUNTED)
					778000000-N	1751	4	EA	DETECTOR CARD (TYPE 2070L)

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