

See Sheet 1-A For Index of Sheets

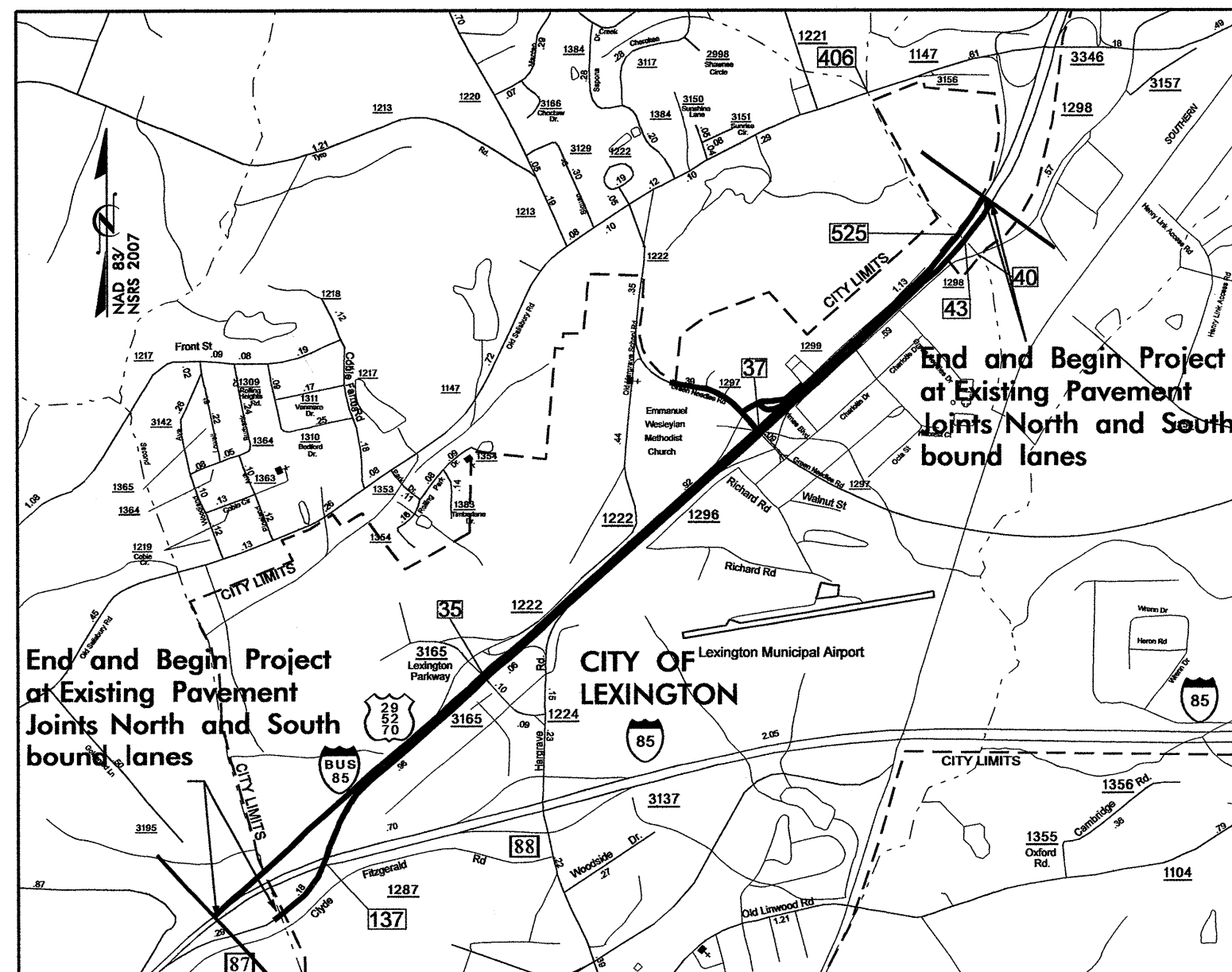
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DAVIDSON COUNTY

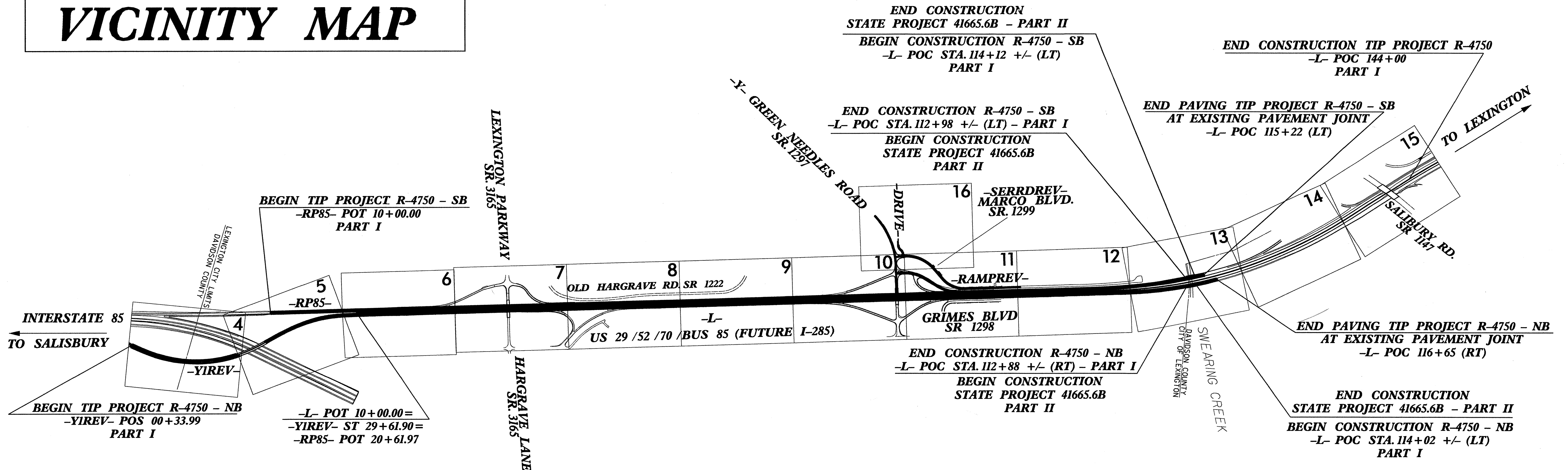
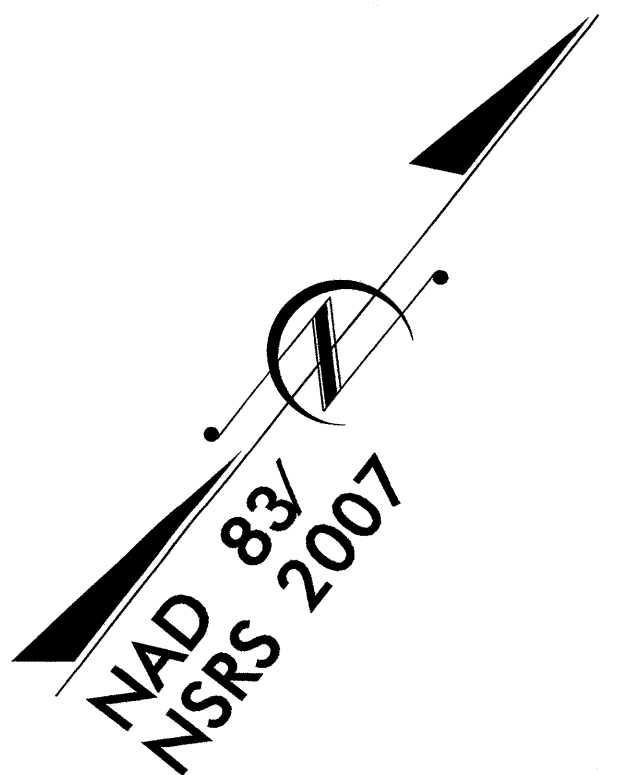
LOCATION: US 29 /52 /70 /BUS 85 (FUTURE I-285) FROM NORTH OF INTERSTATE HIGHWAY 85 TO JUST SOUTH OF SR 1147 OLD SALISBURY ROAD, SOUTH MAIN STREET

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND BRIDGE PRESERVATION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-4750 /41665.6B	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
39889.1.1	NHS-0052(34)	PE	
39889.2.1	NHS-0052(34)	RWUTIL	
39889.3FS1	NHS-0052(35)	CONST.	
41665.6B		STRUCT.	

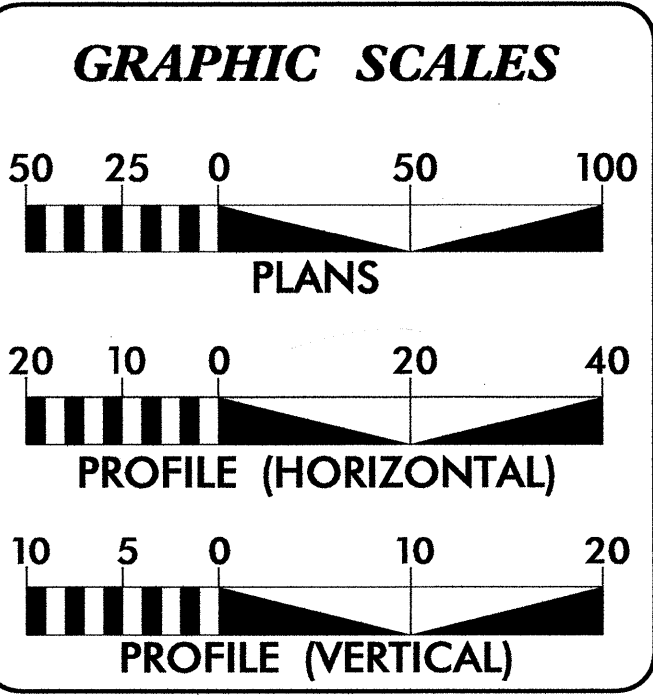


VICINITY MAP



NOTE: THIS IS A CONTROLLED ACCESS PROJECT.

CONTRACT: C202664 TIP PROJECT: R-4750 /41665.6B



DESIGN DATA

ADT 2010 =	28,000
ADT 2030 =	44,800
DHV =	10 %
D =	50 %
T =	16 % *
V =	70 MPH
* TTST =	11%
FUNC CLASS =	FREEWAY/EXPRESSWAY
STATEWIDE TIER	

PROJECT LENGTH

LENGTH ROADWAY R-4750 =	2.456 MILES
LENGTH STRUCTURES PROJECT 41665.6B =	0.022 MILES
TOTAL LENGTH OF PROJECT	
R-4750 /41665.6B =	2.478 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JAN 08, 2013 (R-4750)

LETTING DATE: SEPT 17, 2013

J. Brett Abernathy, P.E., P.L.S.
DIVISION PROJECT ENGINEER

William A. Blanton, PE, PLS
PROJECT DESIGN ENGINEER

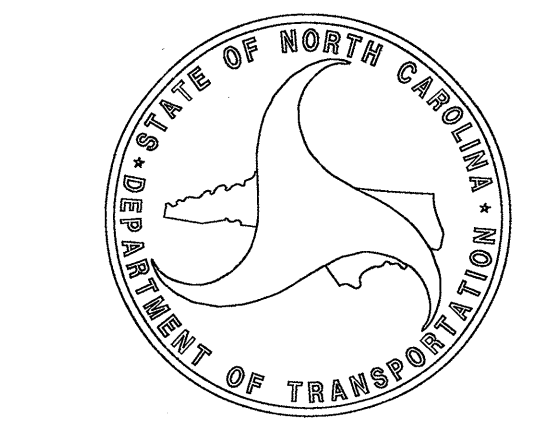
HYDRAULICS ENGINEER

W. Adam Carl 7/1/13

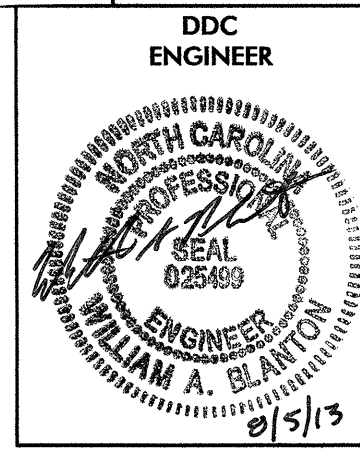
ROADWAY DESIGN ENGINEER

W. Adam Carl 7/1/13

Professional Engineer Seal for W. Adam Carl, No. 022090, State of North Carolina.



17-JUL-2013 08:05 S:\DDC\R4750\AR-4750-RdY-fsh.dgn wablanton AT D9CAD266308



INDEX OF SHEETS (R-4750 / 41665.6B)

SHEET NUMBER	SHEET
1	TITLE SHEET (R-4750 / 41665.6B)
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
PART 1 R-4750	
1-B	CONVENTIONAL SYMBOLS
1-C THRU 1-D	SURVEY CONTROL
2 THRU 2B	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2C	CONVERTING EXISTING OPEN THROAT CB TO MEDIAN DROP INLET
2D	CONCRETE BARRIER W/ CHAIN LINK GLARE SCREEN
2E	TRAFFIC BEARING DOUBLE GRATE INLET DETAIL
3	SUMMARY OF QUANTITIES
3A THRU 3D	SUMMARY OF DRAINAGE QUANTITIES, EARTHWORK SUMMARY, STRUCTURE REMOVAL, ASPHALT & CONCRETE PAVEMENT REMOVAL, GUARDRAIL SUMMARY, FENCE SUMMARY, SHOULDER DRAIN SUMMARY, PARCEL INDEX
4 THRU 16	PLAN SHEETS
17 THRU 18	PROFILE SHEETS
TMP-1 THRU TMP-7	TRAFFIC CONTROL PLANS
PM-1 THRU PM-13	PAVEMENT MARKING PLANS
EC-1 THRU EC-29	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-27	SIGNING PLANS
X-0	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-13	CROSS-SECTIONS
PART 2 41665.6B	
S-0	TITLE SHEET
S-0A	INDEX OF SHEETS
S-1 THRU S-8	STRUCTURE PLANS
S-N	STRUCTURAL STANDARD NOTES

2012 ROADWAY ENGLISH STANDARD DRAWINGS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 07-30-2012

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED 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. 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

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.

SHOULDER DRAINS:

SHOULDER DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 816.02 AND DETAILS IN PLANS AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

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.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE

City of Lexington - Gas & Sewer, Energy United - Power,
Time Warner - Cable TV, Windstream - Telephone/Fiber Optic

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS PRIOR TO THE DATE OF AVAILABILITY.

RIGHT-OF-WAY MARKERS:

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

GENERAL NOTES

2012 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-17-2012
REV. 10-30-2012

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.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.02	Guide for Grading Subgrade - Secondary and Local
225.03	Deceleration and Acceleration Lanes
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.05	Method of Obtaining Superelevation - Divided Highways
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
560.02	Method of Shoulder Construction - High Side of Superelevated Curve - Method II (Sheet 2 of 3 is no longer applicable)
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
665.01	Asphalt Shoulders - Milled Rumble Strips
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
816.01	Concrete Pads - for Shoulder Drain Installation
816.02	Aggregate Shoulder Drain
816.04	Markers for Drainage Structure and Concrete Pad
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
840.04	Concrete Open Throat Catch Basin - 12" thru 48" Pipe
840.05	Brick Open Throat Catch Basin - 12" thru 48" Pipe
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
840.22	Frames and Wide Slot S&G Grates
840.25	Anchorage for Frames - Brick or Concrete or Precast
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
840.36	Traffic Bearing Grated Drop Inlet - for Steel (840.37) Double Frame and Grates
840.37	Steel Grate and Frame
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
854.05	Concrete Median Transition Barrier - Location of Overhead Assembly
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units (Details in Lieu of Standard Drawing as March 2013 Letting)
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
866.02	Woven Wire Fence - with Wood Post
876.02	Guide for Rip Rap at Pipe Outlets

8/17/99
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03/07/13

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. RR-4750	SHEET NO. 1-B
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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	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	HLB
Proposed Wetland Boundary	HLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ?

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	○
Wetland	▽
Proposed Lateral, Tail, Head Ditch	←
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	CSX TRANSPORTATION 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	○ R/W
Proposed Right of Way Line with Iron Pin and Cap Marker	○ R/W ▲
Proposed Right of Way Line with Concrete or Granite R/W Marker	○ R/W ▲
Proposed Control of Access Line with Concrete CA Marker	○ CA
Existing Control of Access	○ CA
Proposed Control of Access	○ CA
Existing Easement Line	E
Proposed Temporary Construction Easement	E
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:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	C
Proposed Slope Stakes Fill	F
Proposed Curb Ramp	CR
Existing Metal Guardrail	T T T T
Proposed Guardrail	T T T T
Existing Cable Guiderail	□ □ □ □
Proposed Cable Guiderail	□ □ □ □
Equality Symbol	⊕
Pavement Removal	⊗
Single Tree	☼
Single Shrub	☼
Hedge	~~~~~
Woods Line	~~~~~

VEGETATION:

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	⊕
Storm Sewer	S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	□
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	⊕
Telephone Booth	□
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	□
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	⊕
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	□
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

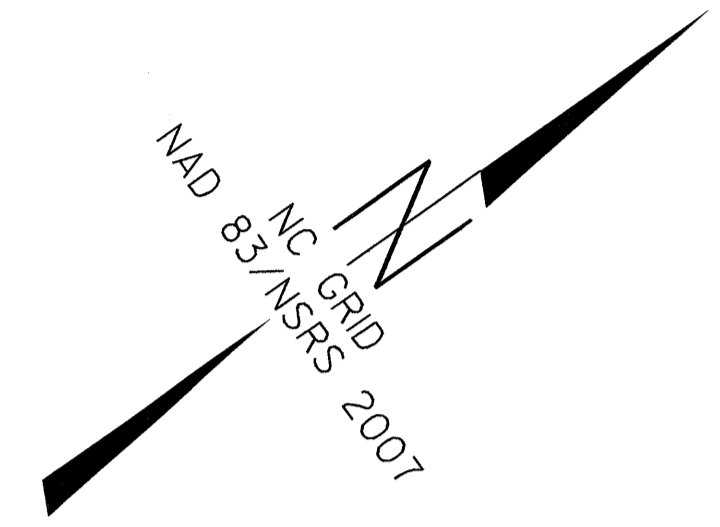
MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	UTIL
U/G Tank; Water, Gas, Oil	□
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.

6/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-4750	1C
Location and Surveys	

SURVEY CONTROL SHEET R-4750



BENCHMARKS (NAVD88)

.....

BM*1 ELEVATION = 698.95'
 N 738620 E 1607332
 YIREV STATION 17+40 21' RIGHT
 NCGS MON 'WO-1987'

.....

.....

BM*2 ELEVATION = 734.01'
 N 744742 E 1612294
 FROM GPS R4750-2 TO BM*2
 N 5°11'08" E DIST 39'
 CHISELED SQUARE IN NE CORNER OF
 CONCRETE PAD AT FACTORY ON GREEN NEEDLES

.....

.....

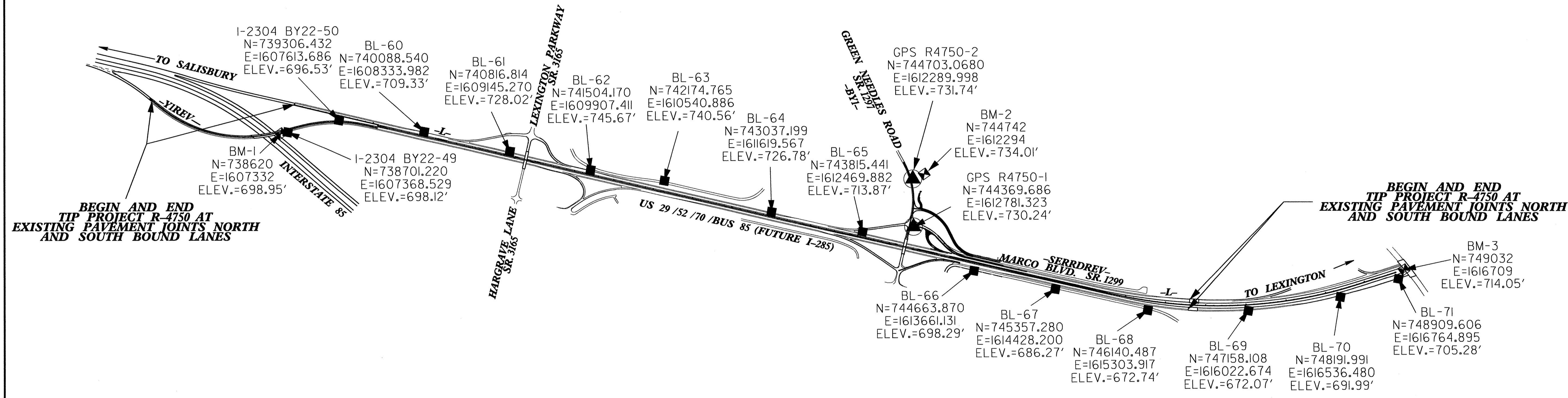
BM*3 ELEVATION = 714.05'
 N 749032 E 1616709
 FROM BL-71 TO BM*3
 N 24°19'20" W DIST 135'
 RR SPIKE IN SEAM OF BRIDGE FOR MAIN
 STREET SOUTH END

.....

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
60	BL-60	740088.5400	1608333.9820	709.33	15+75.58	58.56 LT
61	BL-61	740816.8140	1609145.2700	728.02	26+65.84	59.09 LT
62	BL-62	741504.1700	1609907.4110	745.67	36+92.15	61.29 LT
63	BL-63	742174.7650	1610540.8860	740.56	46+11.53	136.98 LT
64	BL-64	743037.1990	1611619.5670	726.78	59+90.33	57.94 LT
65	BL-65	743815.4410	1612469.8820	713.87	71+43.09	68.81 LT
1	GPS R4750-1	744369.6860	1612781.3230	730.24	77+45.46	272.10 LT
66	BL-66	744663.8700	1613661.1310	698.29	85+96.01	98.28 RT
67	BL-67	745357.2800	1614428.2000	686.27	96+30.04	96.59 RT
68	BL-68	746140.4870	1615303.9170	672.74	107+96.14	119.04 RT
69	BL-69	747158.1080	1616022.6740	672.07	120+23.10	71.31 RT
70	BL-70	748191.9910	1616536.4800	691.99	131+63.50	88.44 RT
71	BL-71	748909.6060	1616764.8950	705.28	OUTSIDE PROJECT LIMITS	

BL POINT	DESC.	NORTH	EAST	ELEVATION	Y1REV STATION	OFFSET
49	I2304 BY22-49	738701.2200	1607368.5290	698.12	18+27.82	27.06 RT
50	I2304 BY22-50	739306.4320	1607613.6860	696.53	24+80.95	20.78 LT

BY1 POINT	DESC.	NORTH	EAST	ELEVATION	Y STATION	OFFSET
2	GPS R4750-2	744703.0680	1612289.9980	731.74	12+25.96	28.68 LT



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R4750-1" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 744369.686(ft) EASTING: 1612781.323(ft) ELEVATION: 730.24'(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99988638

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R4750-1" TO -L- STATION 10+00.00 IS S 45°46'00.4" W 6750.49'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

NOTES:

▲ 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.

NOTE: DRAWING NOT TO SCALE

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SURVEY CONTROL SHEET R-4750

DESIGN ALIGNMENTS

DRIVE

TYPE	STATION	NORTH	EAST
POT	10+00.00	744692.1059	1612471.3998
PC	10+80.99	744631.9114	1612525.5847
PT	11+46.29	744607.1297	1612583.7838
PC	11+46.29	744607.1297	1612583.7838
PT	12+07.78	744585.1106	1612639.3692
POT	12+33.03	744567.2273	1612657.1903

RAMPREV

TYPE	STATION	NORTH	EAST
POT	10+00.00	744345.6561	1612731.7517
PC	11+07.03	744416.5403	1612811.9443
PT	13+68.72	744525.7180	1613045.8287
PC	15+36.63	744550.7460	1613211.8581
PT	18+21.28	744670.6572	1613465.5797
POT	26+00.00	745191.9151	1614044.1028

EXRPD

TYPE	STATION	NORTH	EAST
TS	0+00.00	744576.6973	1613477.4468
SC	2+00.00	744436.4379	1613335.1807
CS	3+61.67	744299.9010	1613249.4272
ST	5+61.67	744110.8414	1613184.8609
POT	7+73.87	743906.7156	1613126.8824

SERVRDREV

TYPE	STATION	NORTH	EAST
POT	10+00.00	744492.9100	1612590.3037
PC	10+70.16	744545.5022	1612636.7416
PT	15+39.98	744697.8873	1613060.4868
PC	16+91.90	744674.1300	1613210.5369
PT	20+10.75	744761.7842	1613506.2441
POT	26+98.26	745221.9879	1614017.0057

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	739660.6737	1607944.5521
POT	26+09.06	740734.9067	1609142.5052
POT	71+25.89	743752.8063	1612503.1629
TS	102+03.24	745812.7268	1614789.3851
SC	105+03.24	746015.4722	1615010.4932
CS	133+01.57	748352.4611	1616498.6891
ST	136+01.57	748638.5717	1616588.8848
POT	139+06.91	748930.5739	1616678.1441

Y

TYPE	STATION	NORTH	EAST
PC	10+00.00	744726.5175	1612060.6139
PT	16+94.09	744418.5498	1612665.6531
POT	19+58.97	744222.3263	1612843.5846

Y1REV

TYPE	STATION	NORTH	EAST
TS	0+00.00	737544.3647	1606049.5585
SC	3+00.00	737631.8760	1606336.3940
CS	15+61.90	738464.2451	1607243.1756
SRS	18+61.90	738742.5574	1607354.8677
SC	21+61.90	739020.8697	1607466.5598
CS	26+61.90	739433.2102	1607745.9103
ST	29+61.90	739640.1448	1607962.9609

RP85

TYPE	STATION	NORTH	EAST
POT	10+00.00	738962.4978	1607144.2090
POT	20+61.97	739671.4882	1607934.8544

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R4750-1" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 744369.686(ft) EASTING: 1612781.323(ft) ELEVATION: 730.24'(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99988638

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R4750-1" TO -L- STATION 10+00.00 IS S 45°46'00.4" W 6750.49'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

ROW MARKER CONCRETE OR GRANITE

ALIGN	STATION	OFFSET	NORTH	EAST
Y	14+81.47	-29.72	744583.2536	1612523.6138

ROW MARKER CONCRETE OR GRANITE

ALIGN	STATION	OFFSET	NORTH	EAST
SERVRDREV	10+39.02	-40.00	744548.6368	1612586.1479
SERVRDREV	10+70.16	-40.00	744571.9743	1612606.7544
SERVRDREV	15+39.98	-40.00	744737.3952	1613066.7420
SERVRDREV	16+91.90	-40.00	744713.6375	1613216.7950
SERVRDREV	20+03.27	-40.00	744787.1029	1613474.4839

NOTES:

INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.

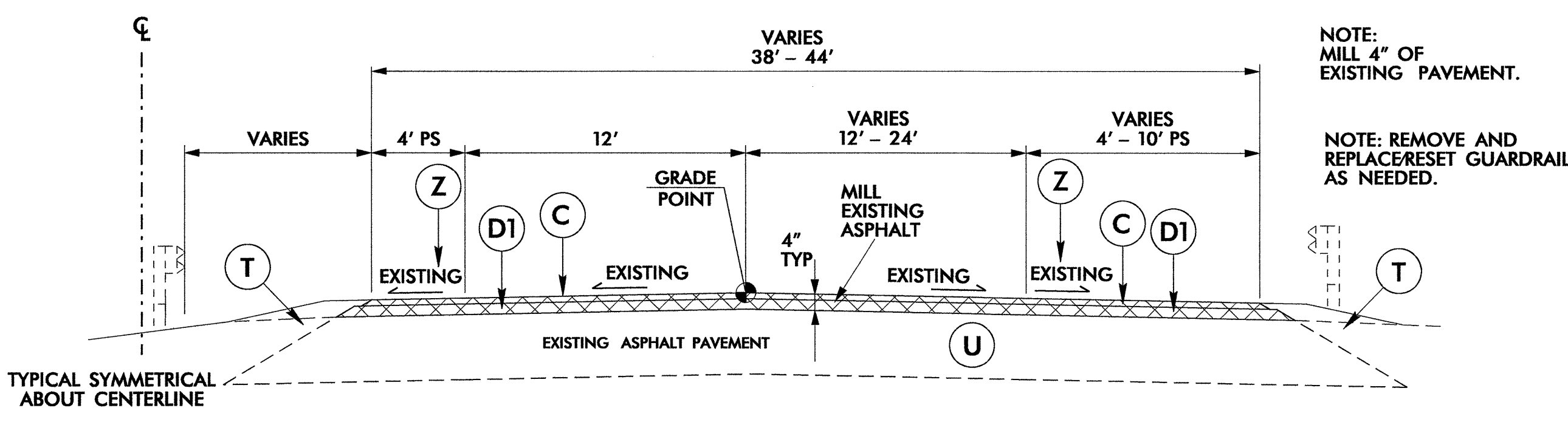
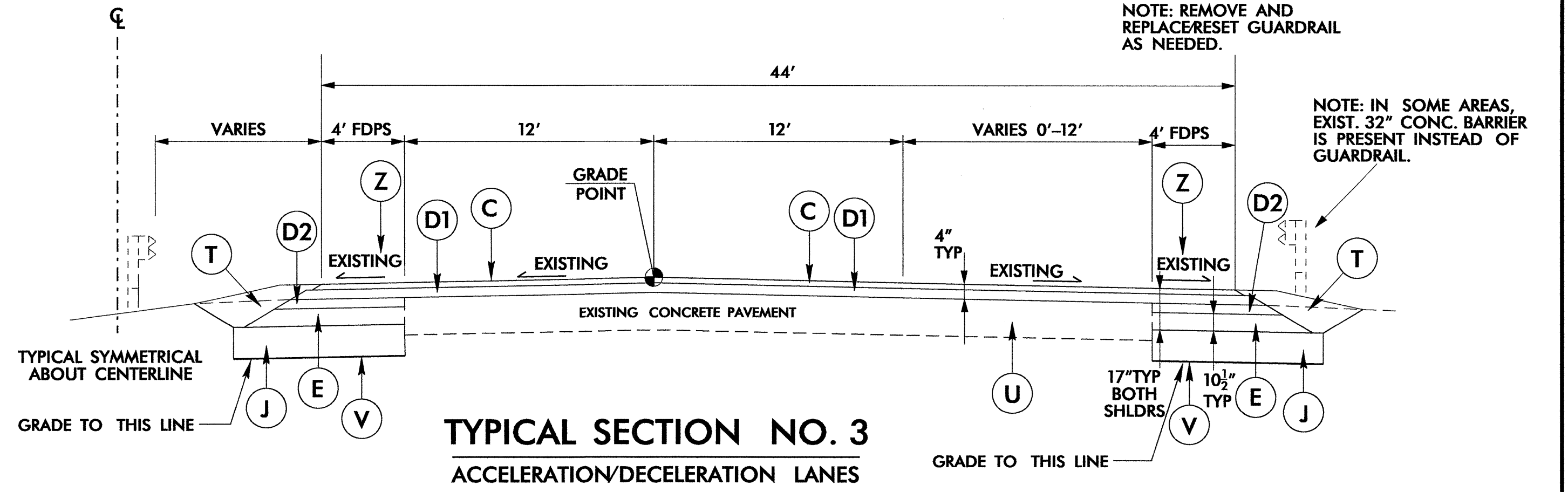
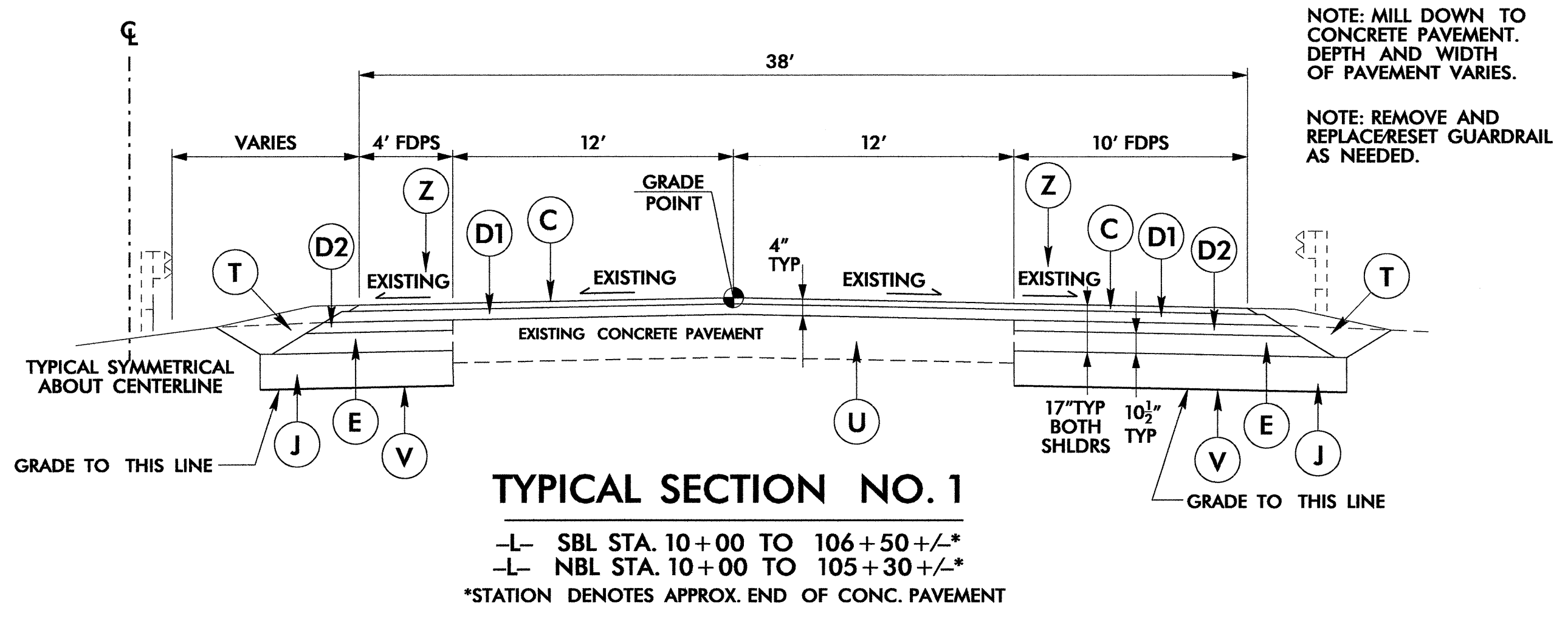
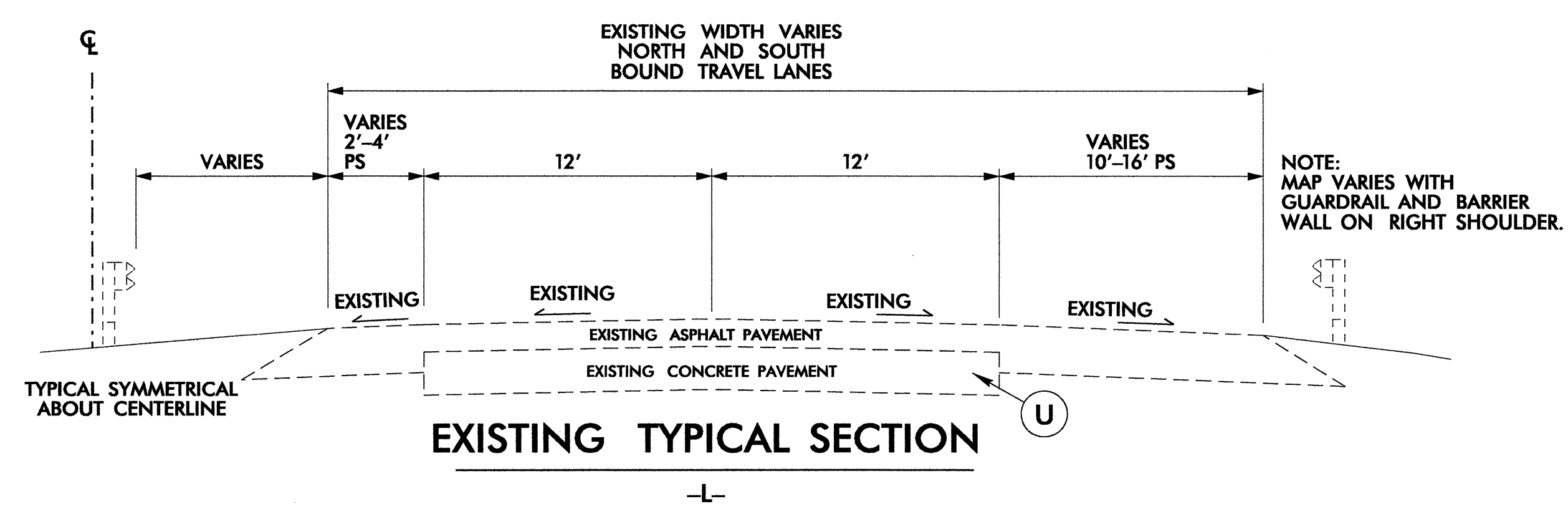
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.

NOTE: DRAWING NOT TO SCALE

03-Jul-2019 11:47:50 Rdl: gsh-Sheet1D.dgn
 8/2/99
 10/25/2019 10:25:13

NOTES:

- ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.
- SHOULDER ROLLOVER NOT TO EXCEED 0.06 (TYP).
- CLEARANCE IS TO BE MAINTAINED AT ALL BRIDGES. TRANSITION MIX TYPE AND DEPTH WILL BE DETERMINED AS DIRECTED BY ENGINEER TO MAINTAIN BRIDGE CLEARANCE. (TYPICAL FOR BOTH NORTH AND SOUTH BOUND LANES)
- MILLED RUMBLE STRIPS REQUIRED (STANDARD 665.01)



NOTE:
MILLING SEQUENCE:

STEP 1 MILL 4" DEPTH FULL WIDTH INCLUDING PAVED SHOULDERS

STEP 2 OVERLAY ENTIRE FULL WIDTH OF PAVEMENT WITH 2 1/2" INTERMEDIATE COURSE, TYPE I19.0C (D1)

STEP 3 OVERLAY ENTIRE FULL WIDTH OF PAVEMENT WITH 1 1/2" SURFACE COURSE TYPE S9.5C (C)

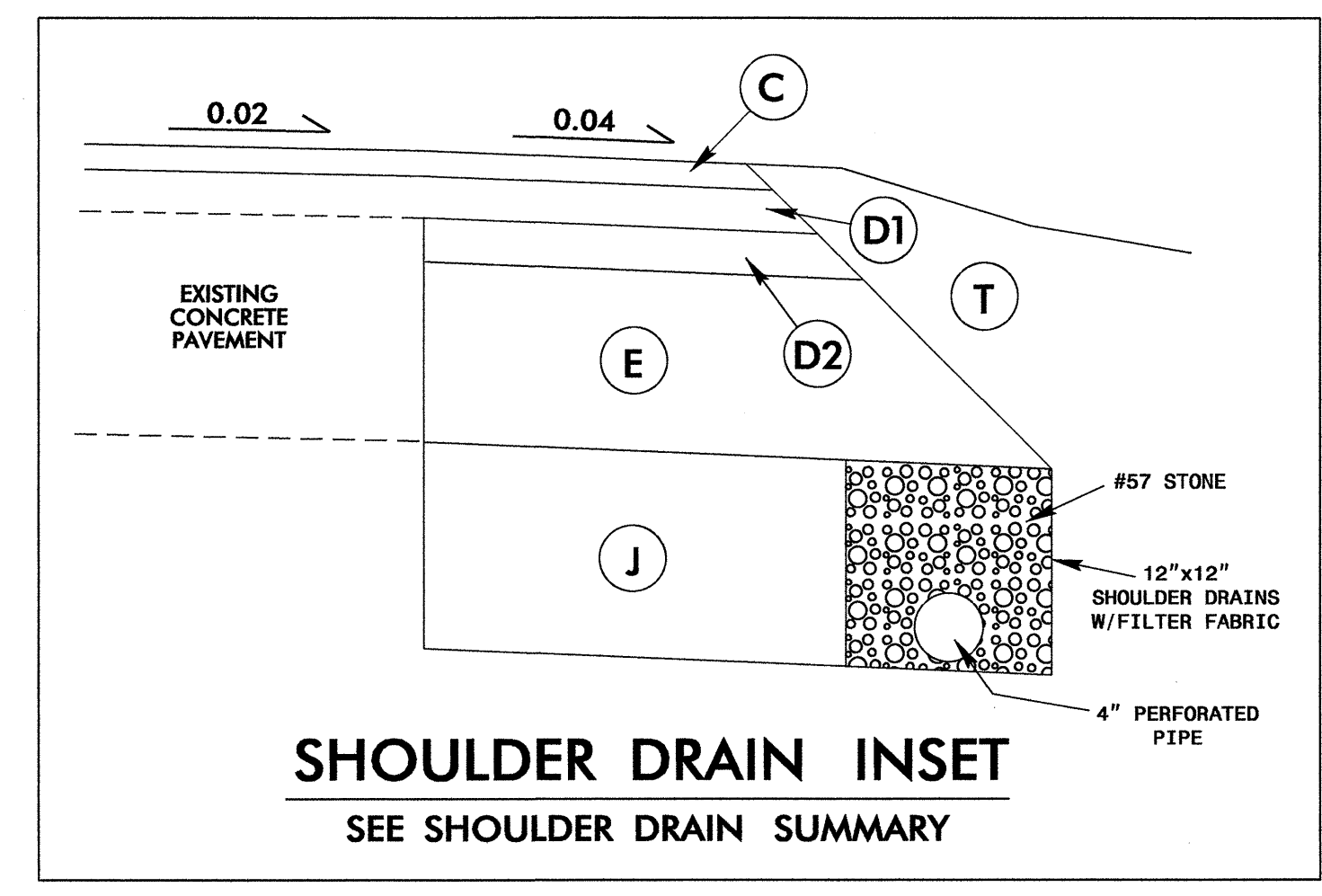
TYPICAL SECTION NO. 2

-L- SBL STA. 106+50 TO 112+98

-L- SBL STA. 114+12 TO 115+21

-L- NBL STA. 105+30 TO 112+88

-L- NBL STA. 114+02 TO 116+25



PAVEMENT SCHEDULE

C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	E2	PROP. APPROX. 4 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	J	PROP. 12" TO VAR. CLASS IV SUBGRADE STABILIZATION
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH	R	EXISTING 32" CONCRETE BARRIER WALL WITH GLARE SCREEN
D	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R1	2'-6" CONCRETE CURB AND GUTTER (STANDARD 846.01)
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	T	EARTH MATERIAL
D2	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH	V	GEOTEXTILE FOR SOIL STABILIZATION
E	PROP. APPROX. 10 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 598.5 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	Z	MILLED RUMBLE STRIPS
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.		

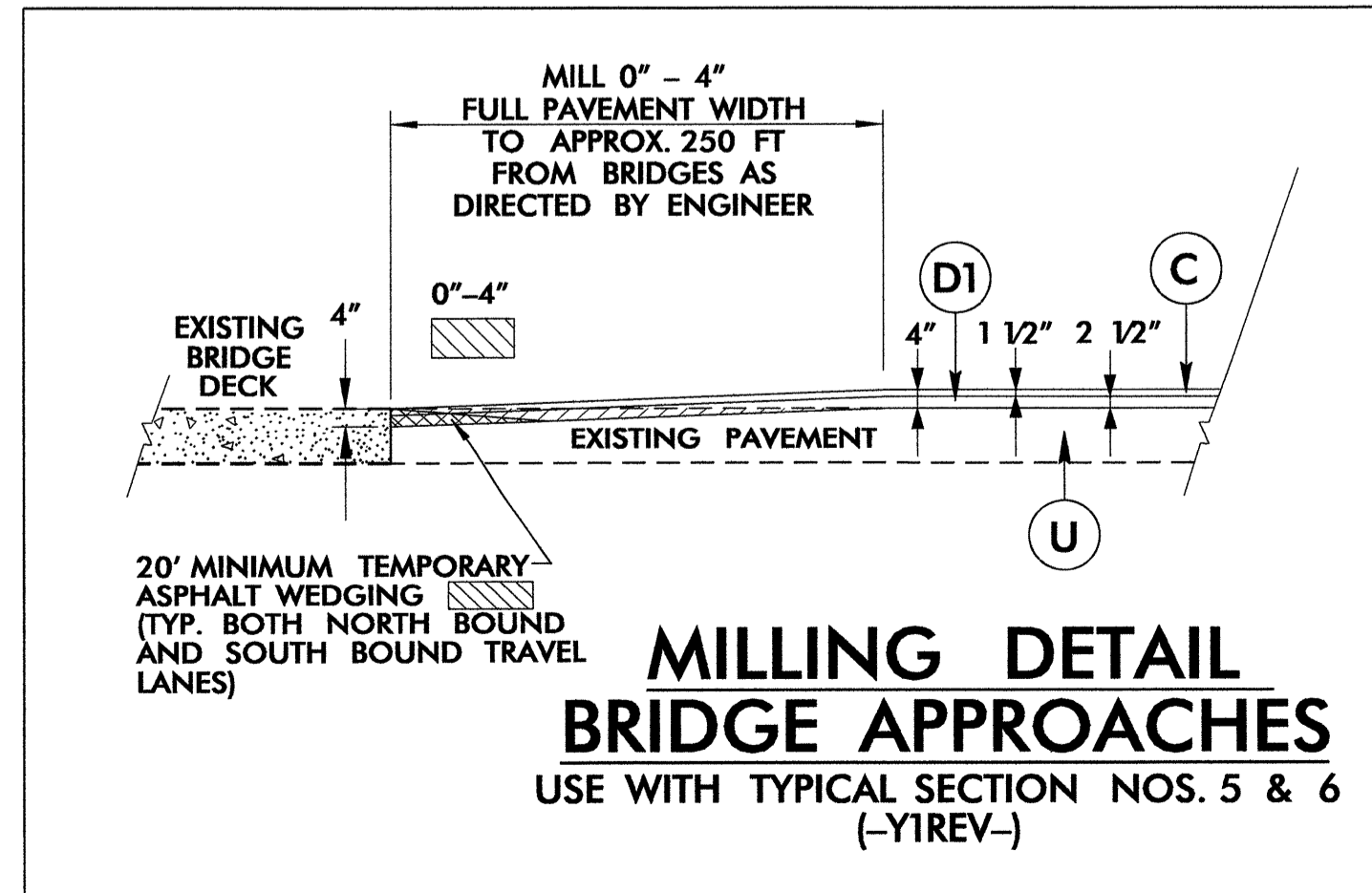
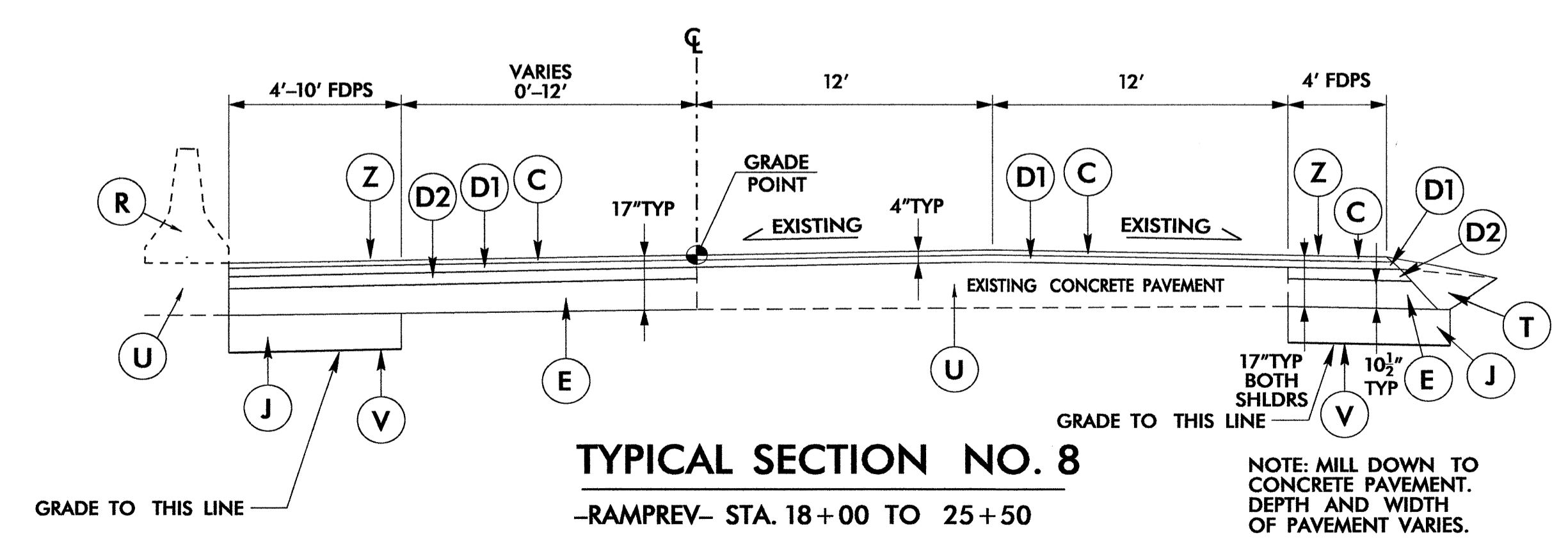
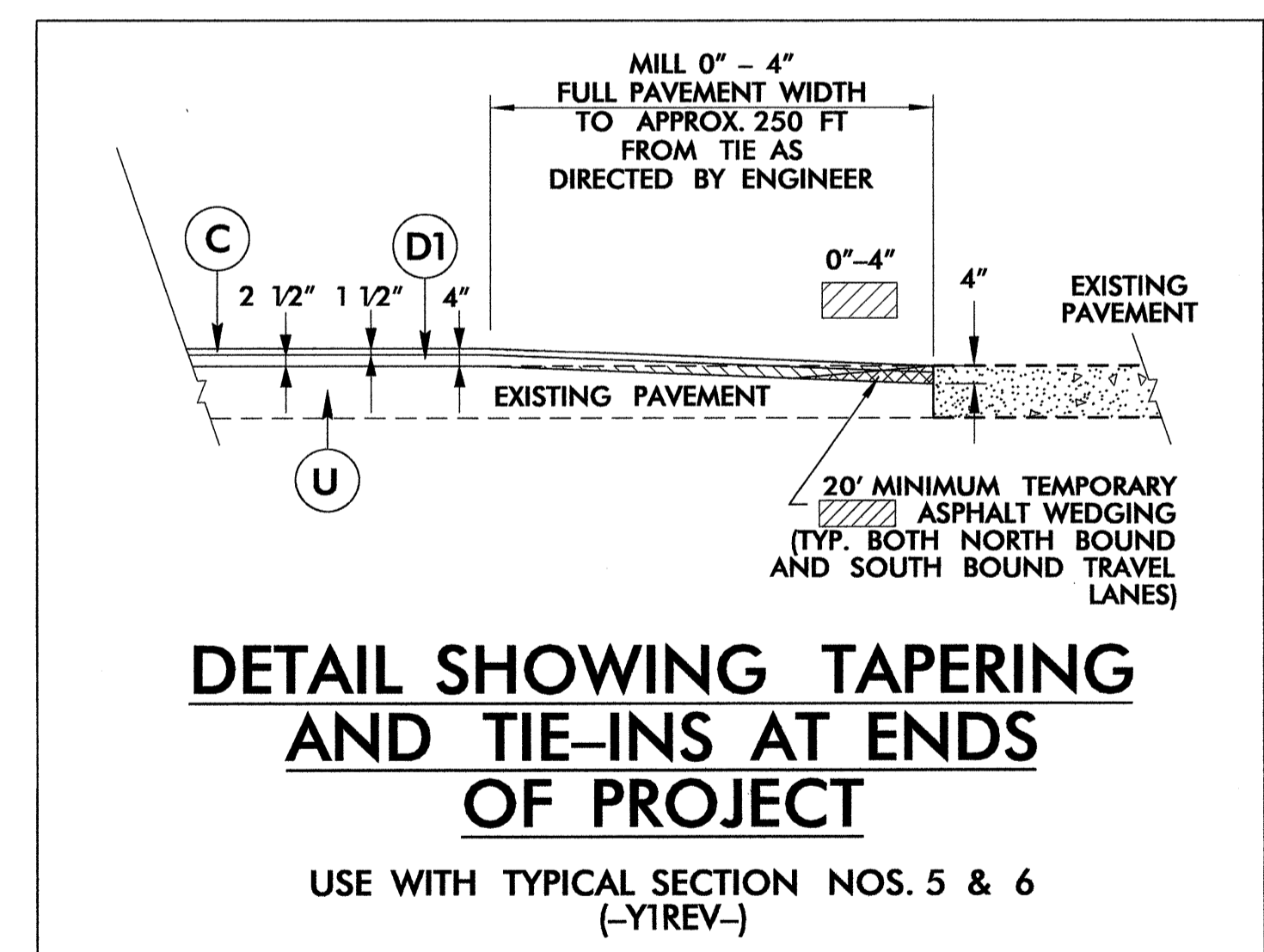
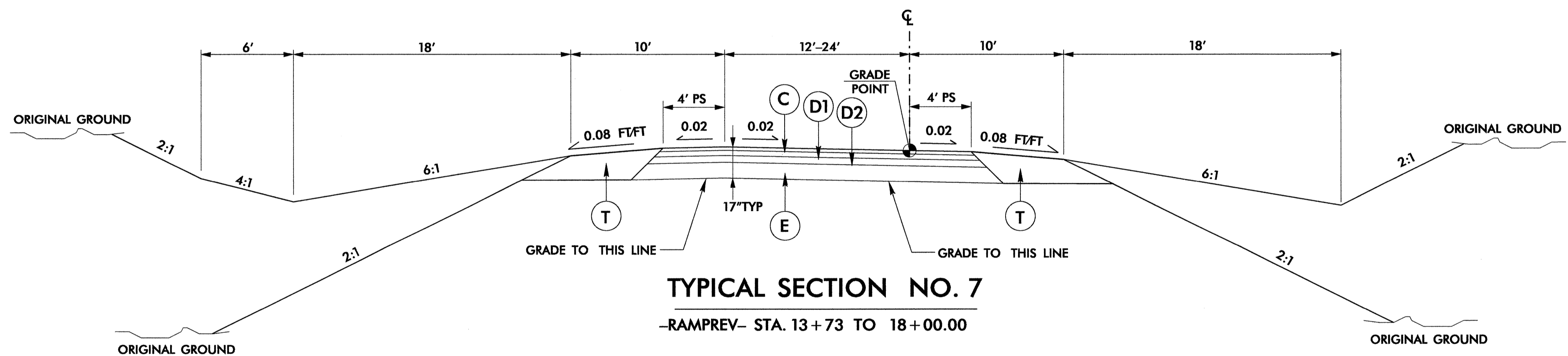
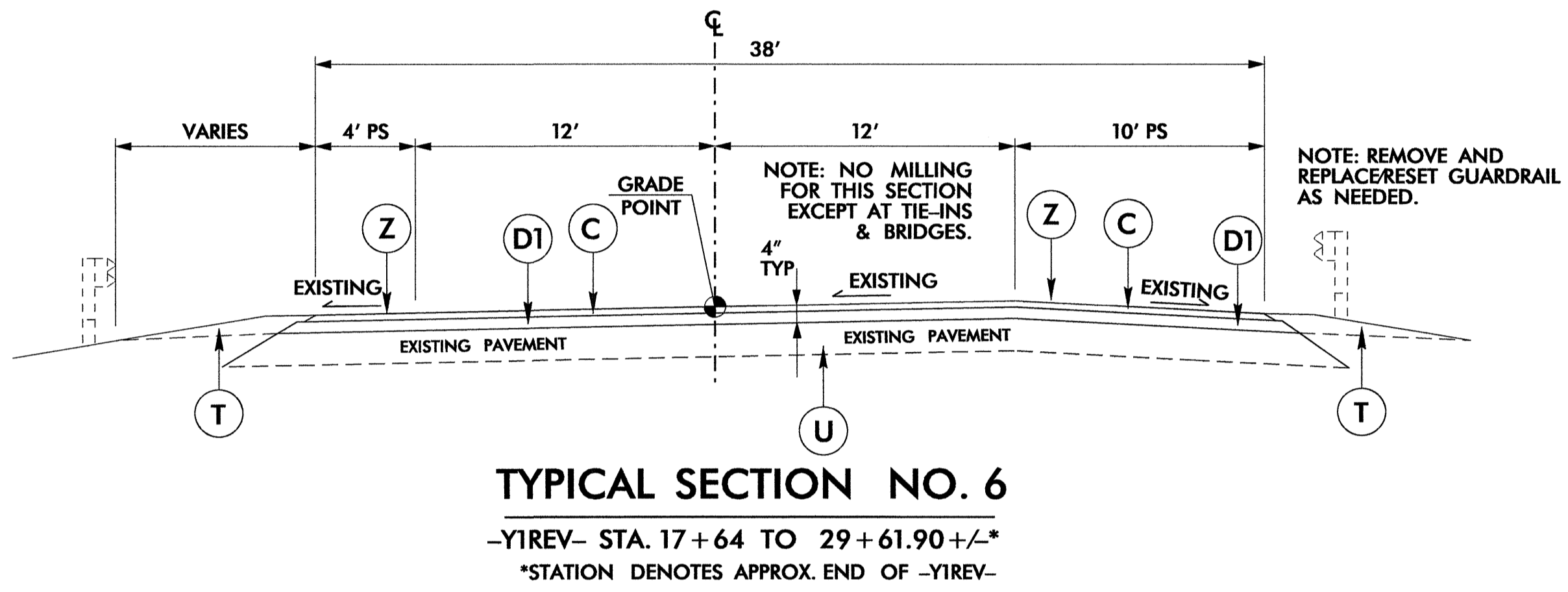
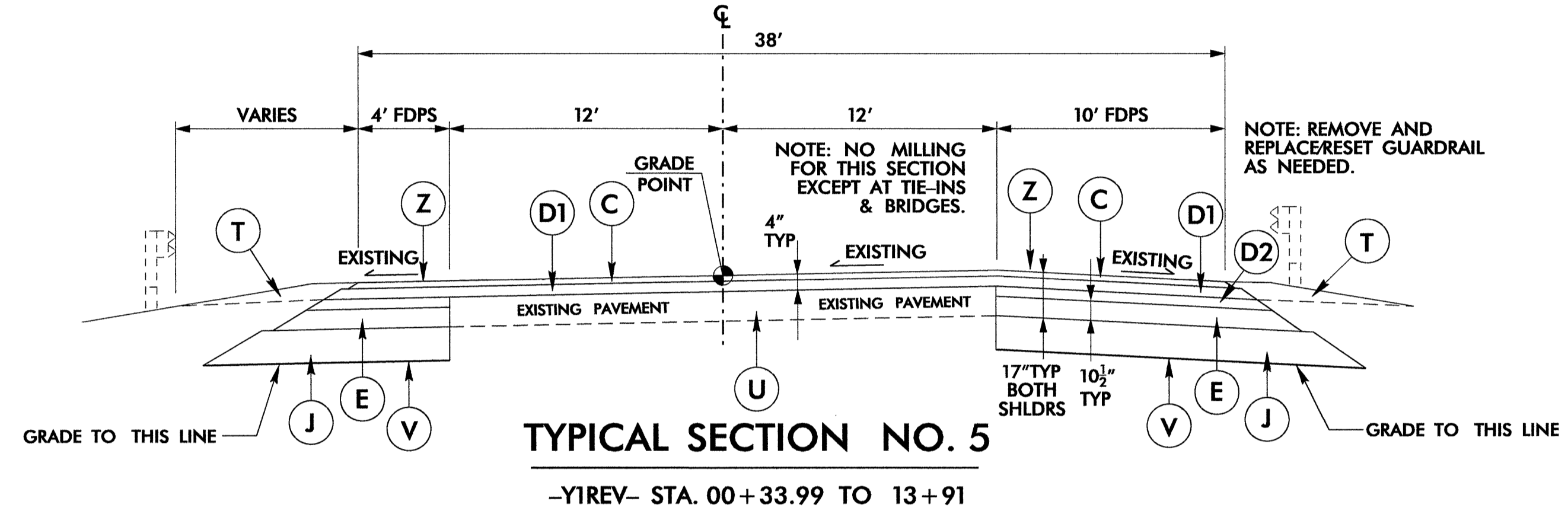
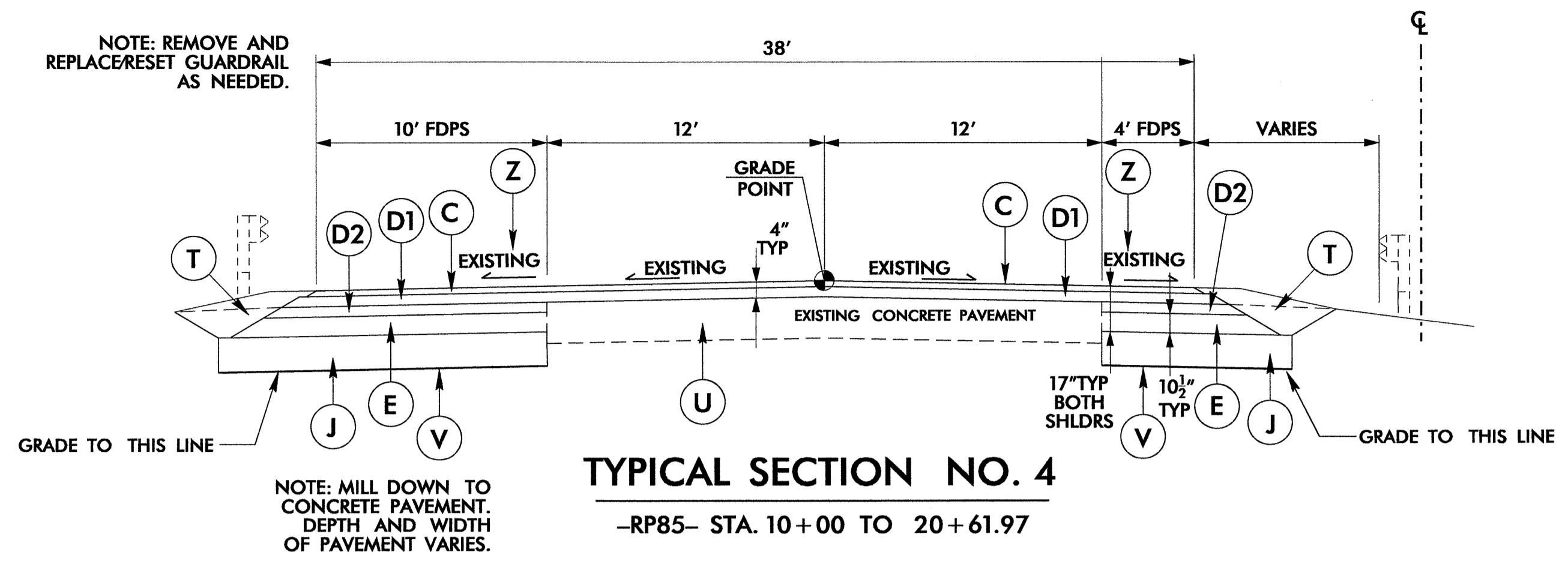
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6/27/99

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PAVEMENT SCHEDULE	
(C)	1.5" S9.5C
(C1)	3.0" S9.5C
(C2)	VAR S9.5C
(D)	4.0" I19.0C
(D1)	2.5" I19.0C
(D3)	VAR. I19.0C
(Z)	MILLED RUMBLE STRIPS
(E)	10.5" B25.0C
(E1)	4.0" B25.0C
(E2)	4.5" B25.0C
(J)	PROP. 12" TO VAR. CLASS IV SUBGRADE STABILIZATION
(R)	EXIST. 32" CONCRETE BARRIER WALL W/ GLARE SCREEN
(R1)	2'-6" CONCRETE CURB AND GUTTER.
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(V)	GEOTEXTILE FOR SOIL STABILIZATION
(Z)	MILLED RUMBLE STRIPS

PROJECT REFERENCE NO. R-4750	SHEET NO. 2A
ROADWAY DESIGN ENGINEER WILLIAM A. BLANTON 8/15/13	PAVEMENT DESIGN ENGINEER CLARK S. MORRISON 8/7/13

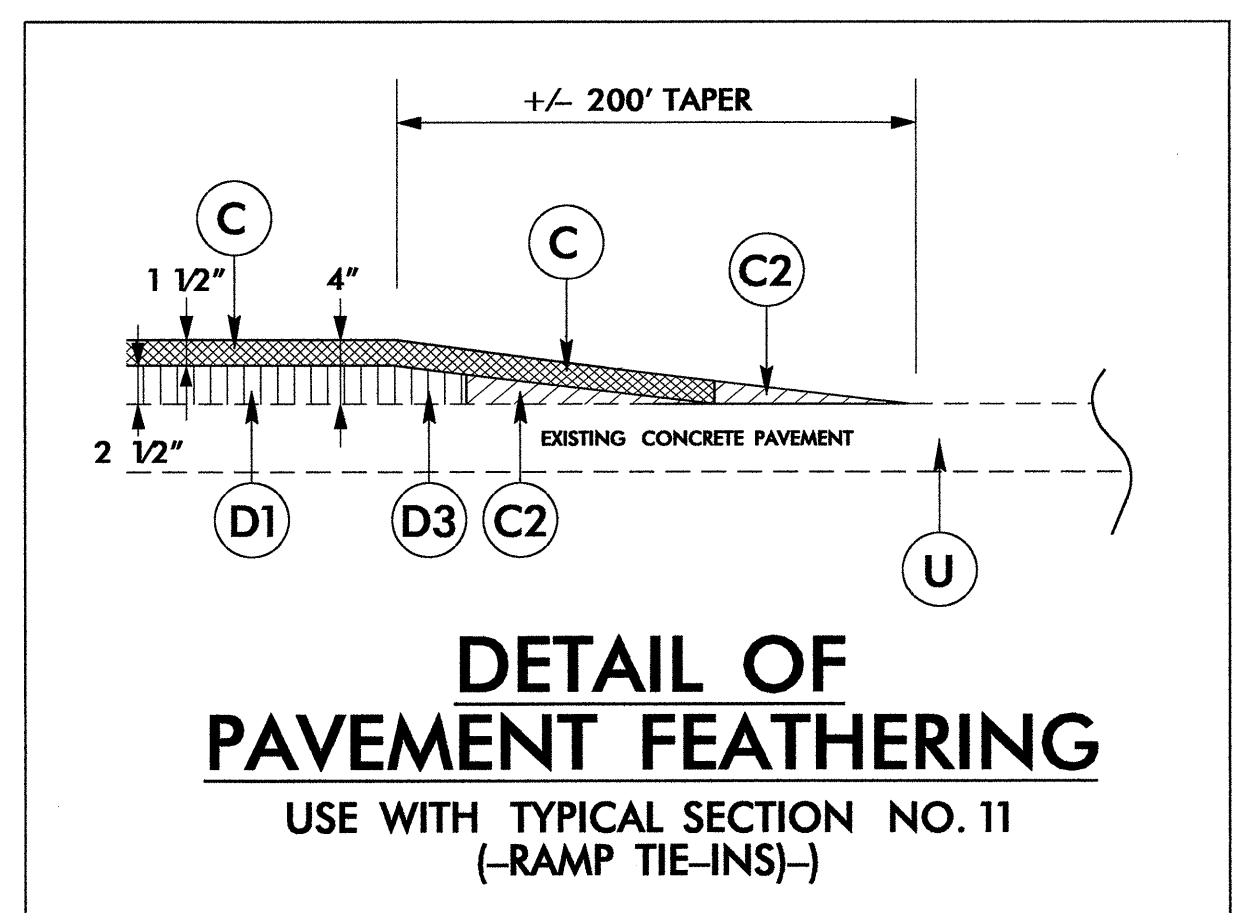
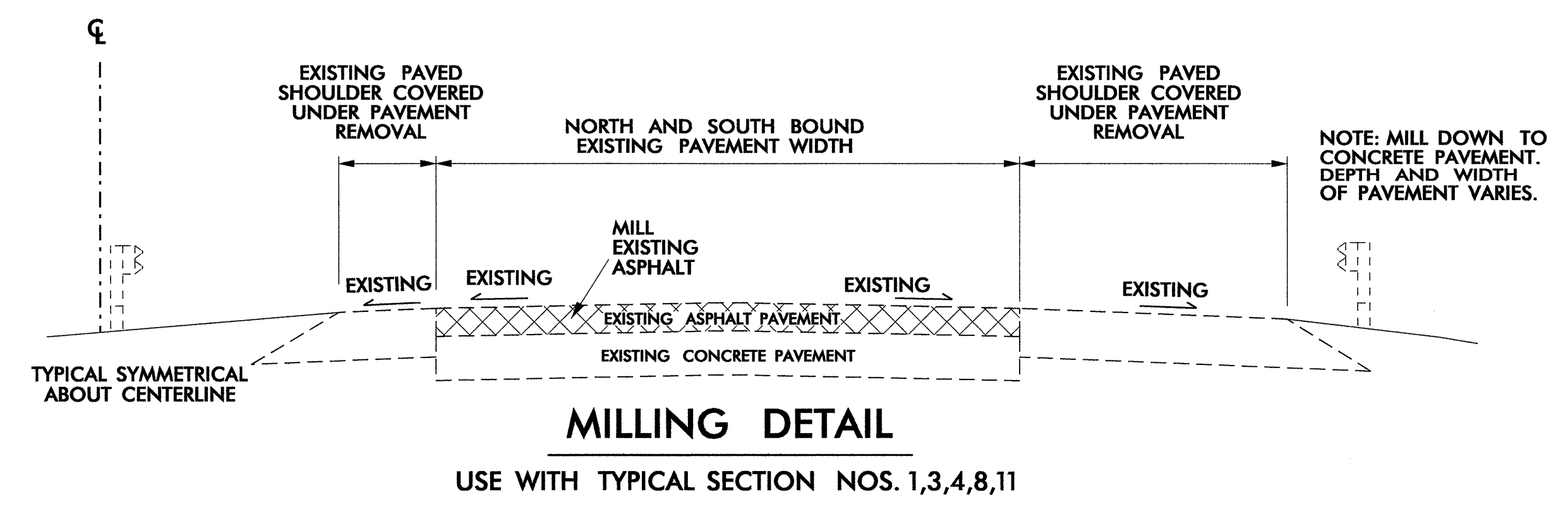
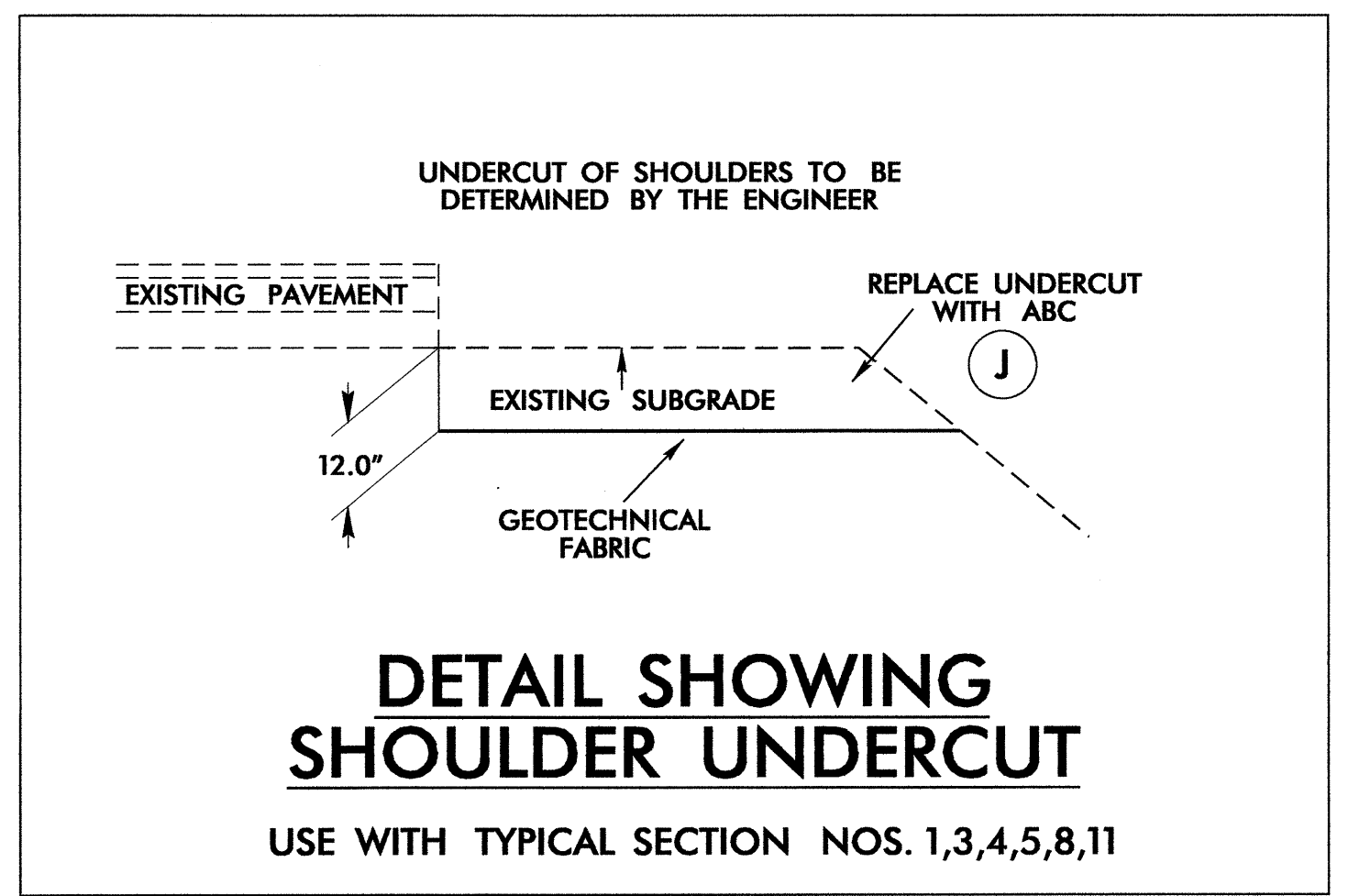
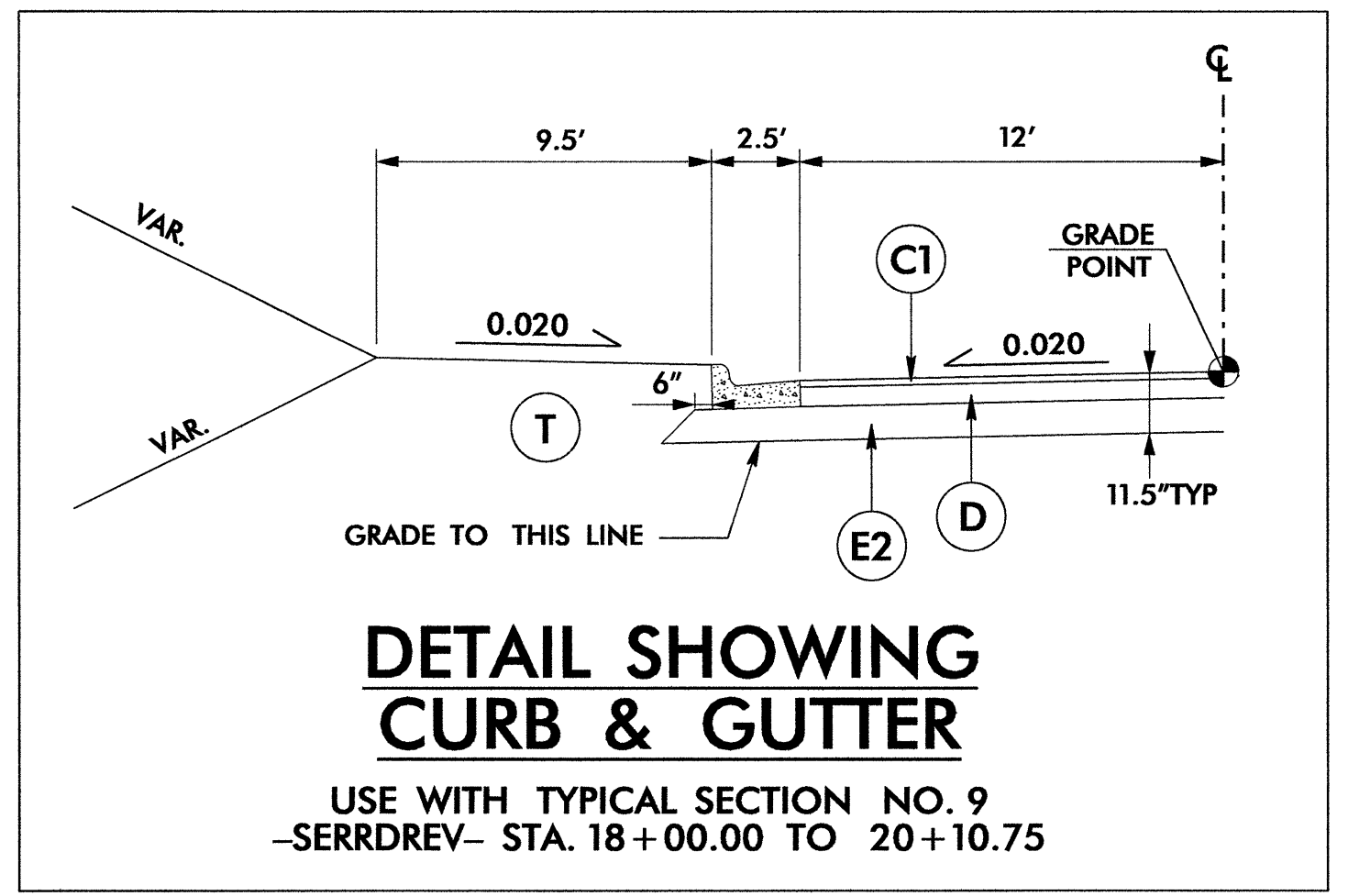
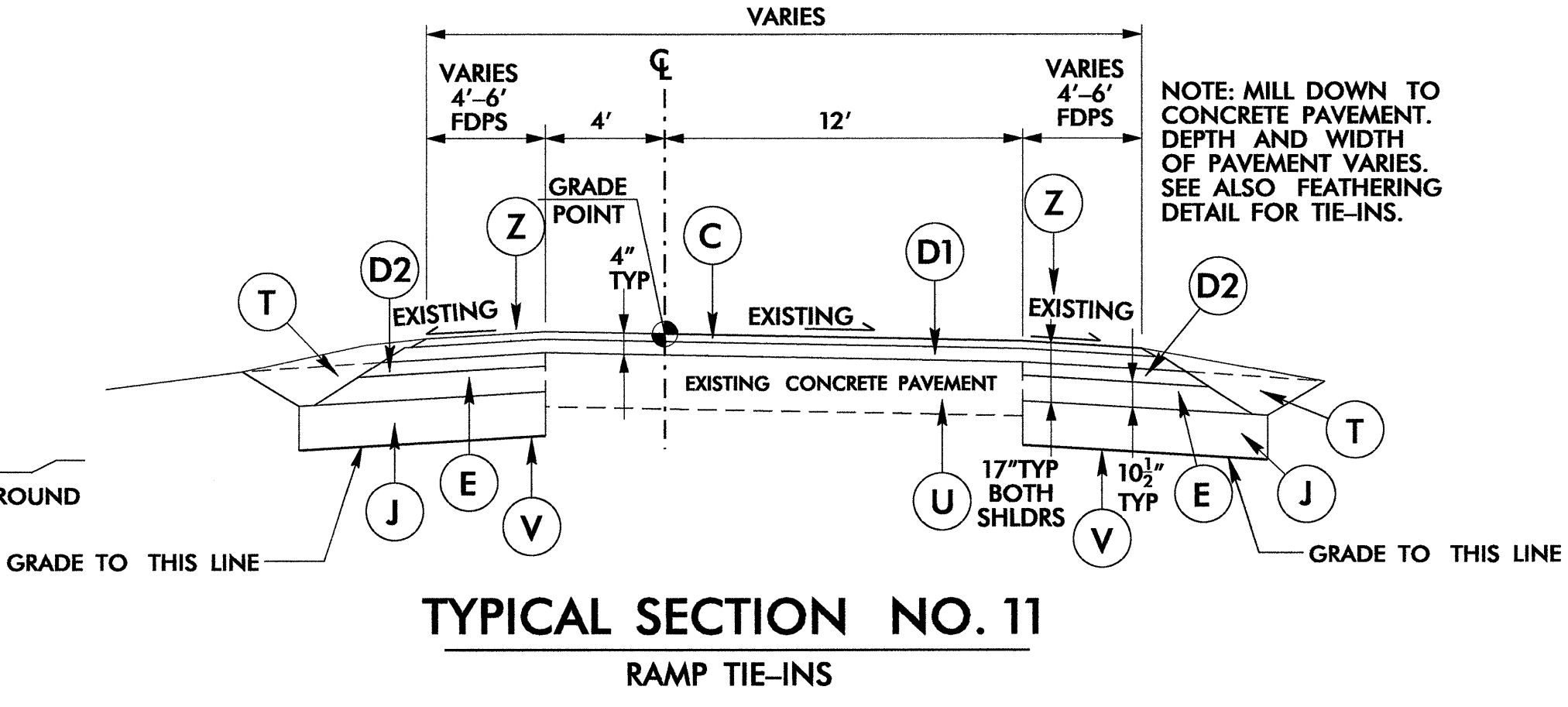
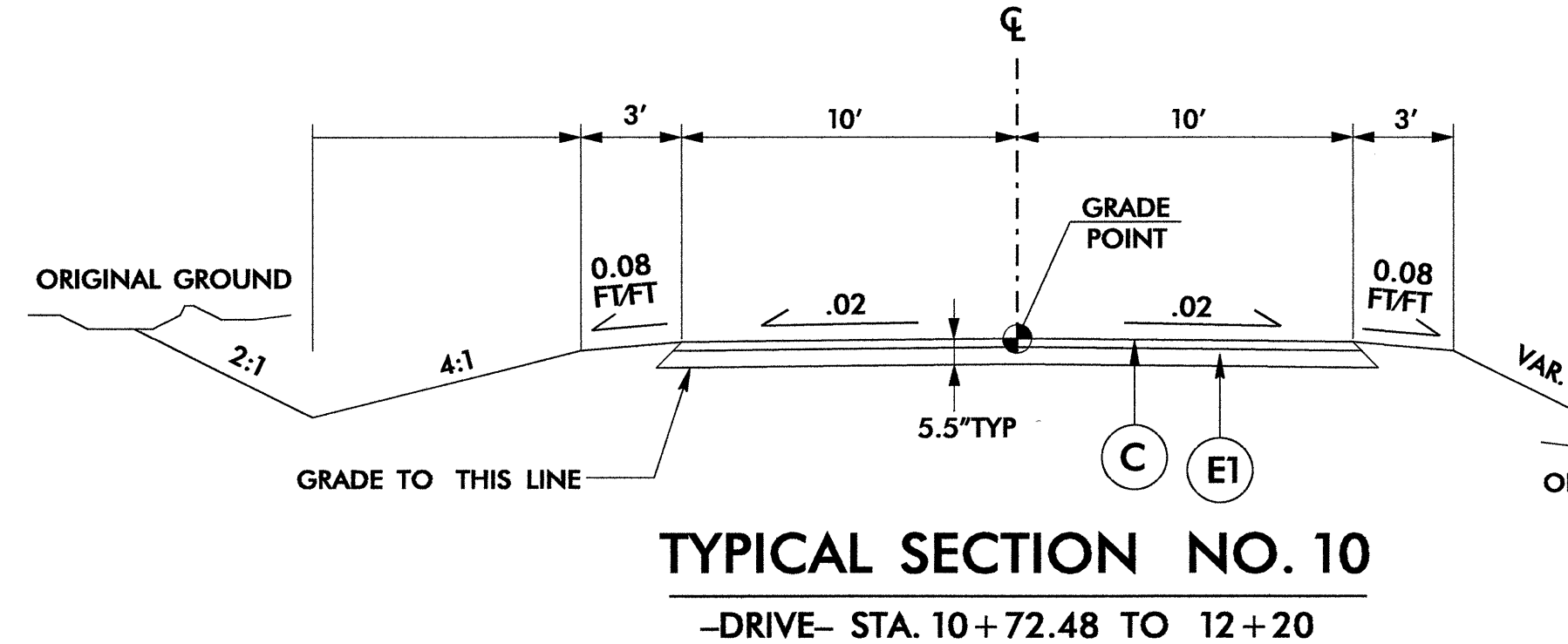
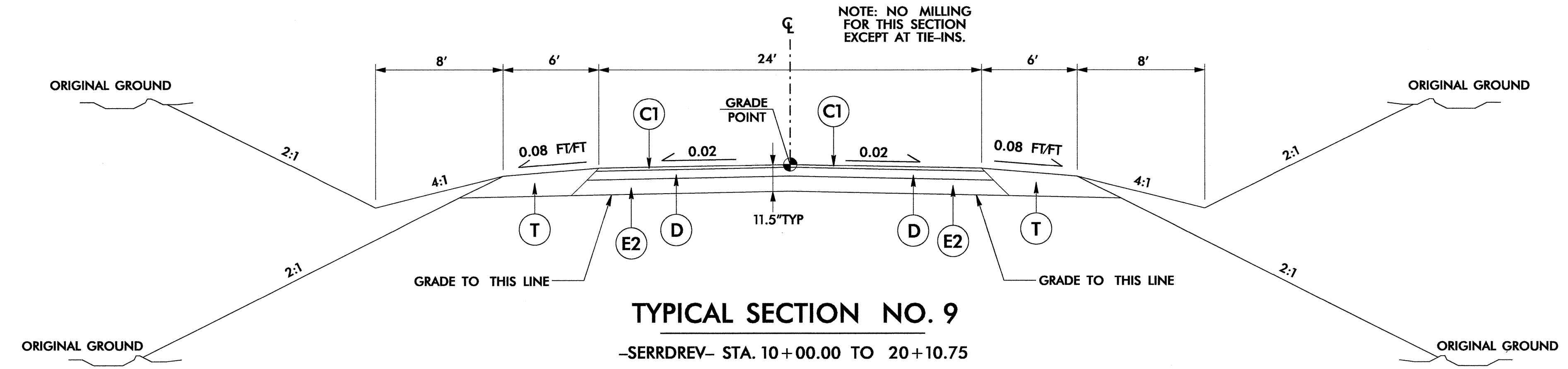


- NOTES:**
- ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.
 - SHOULDER ROLLOVER NOT TO EXCEED 0.06 (TYP).
 - CLEARANCE IS TO BE MAINTAINED AT ALL BRIDGES. TRANSITION MIX TYPE AND DEPTH WILL BE DETERMINED AS DIRECTED BY ENGINEER TO MAINTAIN BRIDGE CLEARANCE. (TYPICAL FOR BOTH NORTH AND SOUTH BOUND LANES)
 - MILLED RUMBLE STRIPS REQUIRED (STANDARD 665.01)

6/2/13

PROJECT REFERENCE NO. R-4750	SHEET NO. 2B
ROADWAY DESIGN ENGINEER WILLIAM A. BLANTON SEAL 025499	PAVEMENT DESIGN ENGINEER CLARK S. MORRISON SEAL 22886

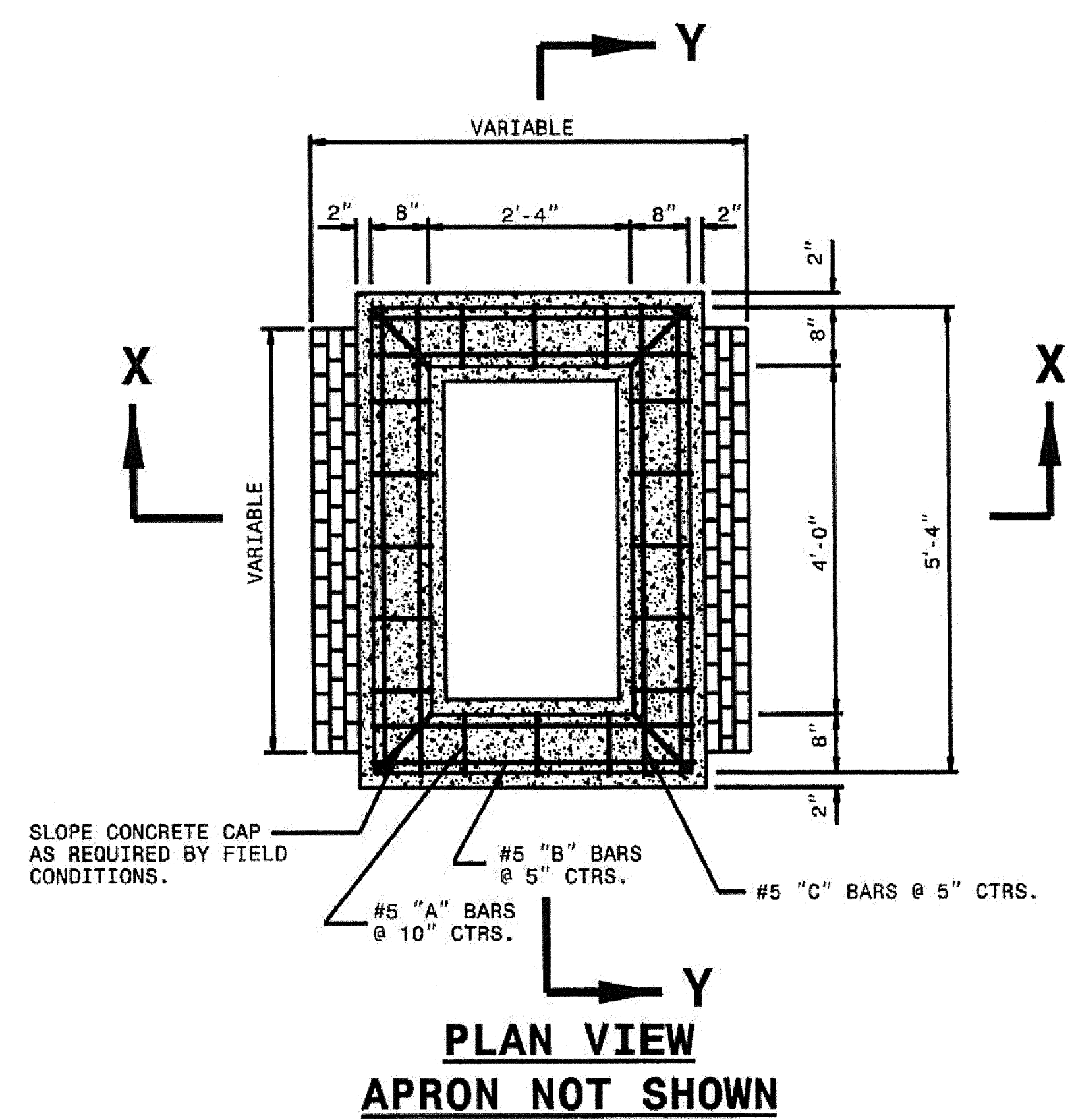
PAVEMENT SCHEDULE	
(C)	1.5" S9.5C
(C1)	3.0" S9.5C
(C2)	VAR S9.5C
(D)	4.0" I19.0C
(D1)	2.5" I19.0C
(D3)	VAR. I19.0C
(Z)	MILLED RUMBLE STRIPS
(E)	10.5" B25.0C
(E1)	4.0" B25.0C
(E2)	4.5" B25.0C
(J)	PROP. 12" TO VAR. CLASS IV SUBGRADE STABILIZATION
(R)	EXIST. 32" CONCRETE BARRIER WALL W/ GLARE SCREEN
(R1)	2'-6" CONCRETE CURB AND GUTTER.
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(V)	GEOTEXTILE FOR SOIL STABILIZATION
(Z)	MILLED RUMBLE STRIPS



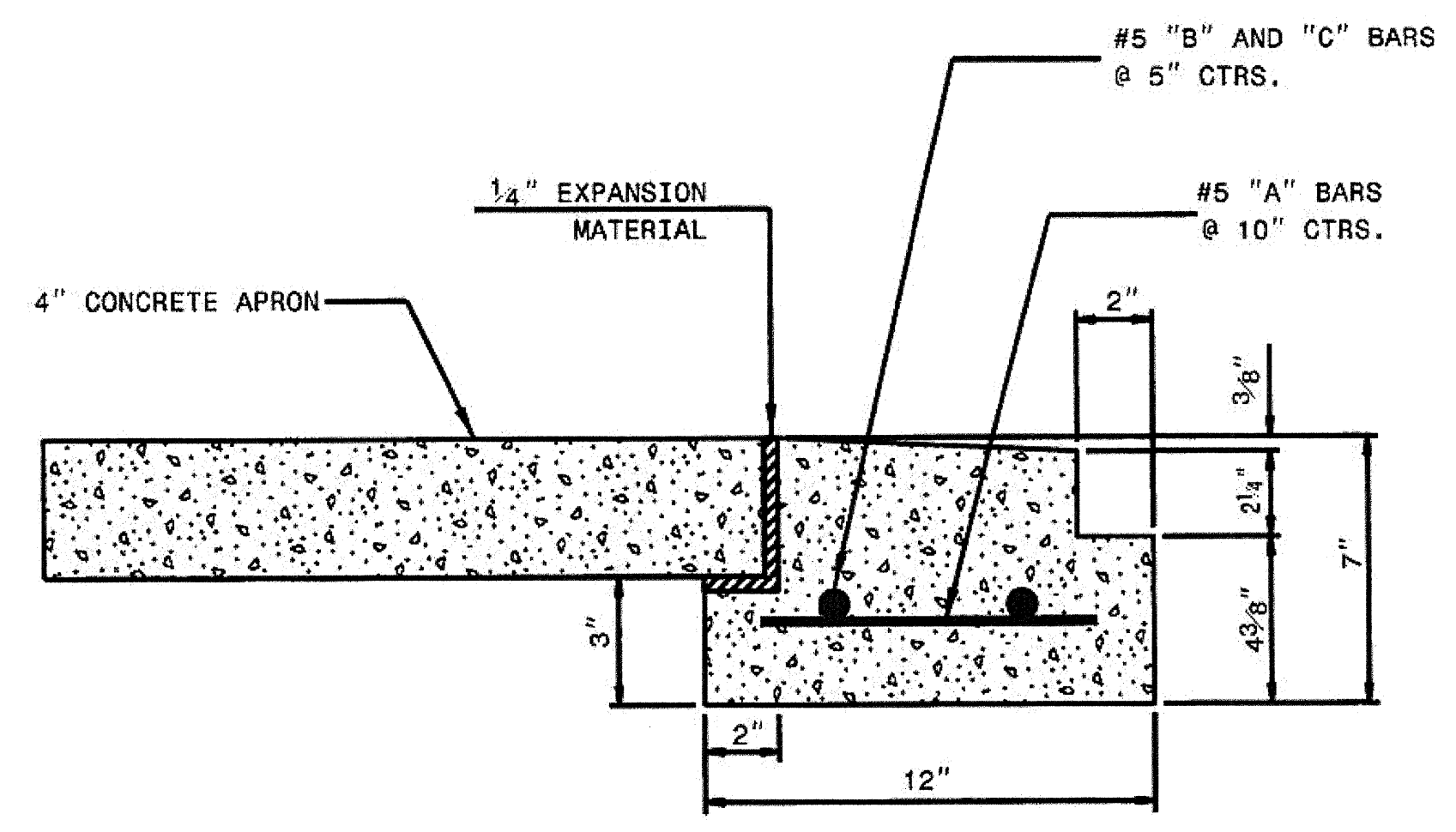
- NOTES:
- ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.
 - SHOULDER ROLLOVER NOT TO EXCEED 0.06 (TYP).
 - CLEARANCE IS TO BE MAINTAINED AT ALL BRIDGES. TRANSITION MIX TYPE AND DEPTH WILL BE DETERMINED AS DIRECTED BY ENGINEER TO MAINTAIN BRIDGE CLEARANCE. (TYPICAL FOR BOTH NORTH AND SOUTH BOUND LANES)
 - MILLED RUMBLE STRIPS REQUIRED (STANDARD 665.01)

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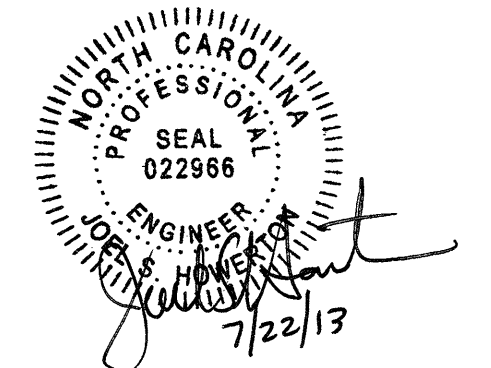
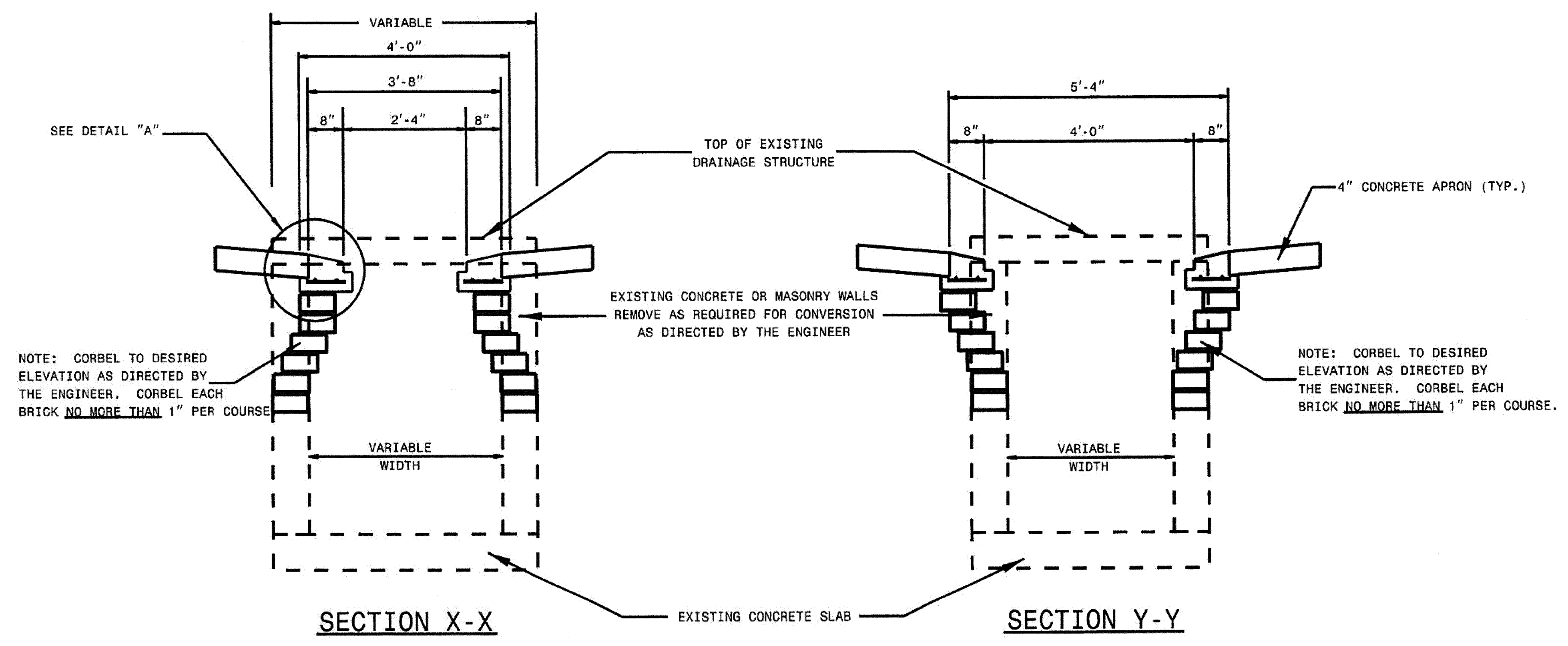


NOTES:
 - USE CLASS 'B' CONCRETE.
 - DIMENSIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

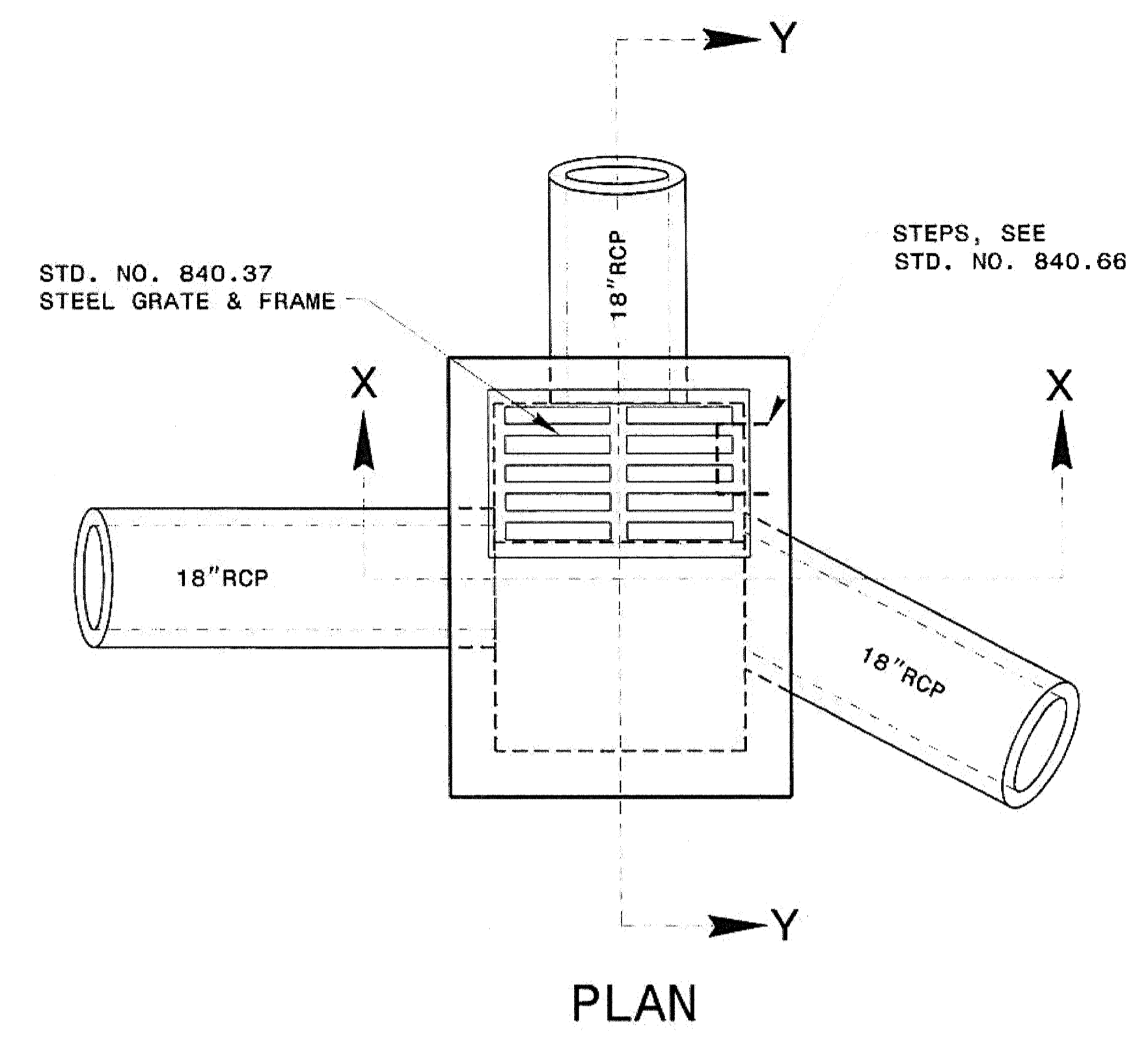


BILL OF MATERIAL				
BAR	NO.	SIZE	LENGTH	WEIGHT
A	16	5	9"	13
B	4	5	3'-5"	14
C	4	5	5'-1"	21
TOTAL REINF. STEEL (lbs.)				48
BRICK MASONRY (per ft. ht.) (cu. yds.)				0.38
CLASS "B" CONC. (cu. yds.)				0.23

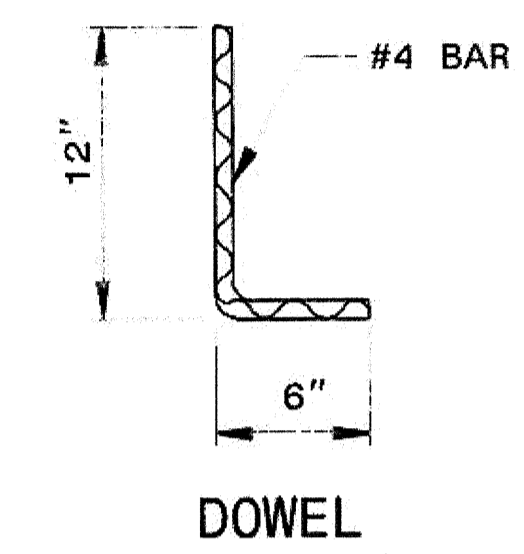
FRAME AND GRATES	STD. NO.
PREFERRED:	840.22
	840.24
ACCEPTABLE:	840.20
	840.29
	840.33



CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-250-4128 FAX 919-250-4119	
CONVERT EXISTING OPEN THROAT CB TO MEDIAN DROP INLET	
ORIGINAL BY: L.M. LEWIS	DATE: 3/97
MODIFIED BY: E.F. WARD	DATE: 7/09
CHECKED BY: [Signature]	DATE: 7/22/13
FILE SPEC.: S:\usr\details\stand\cbto201.dgn	

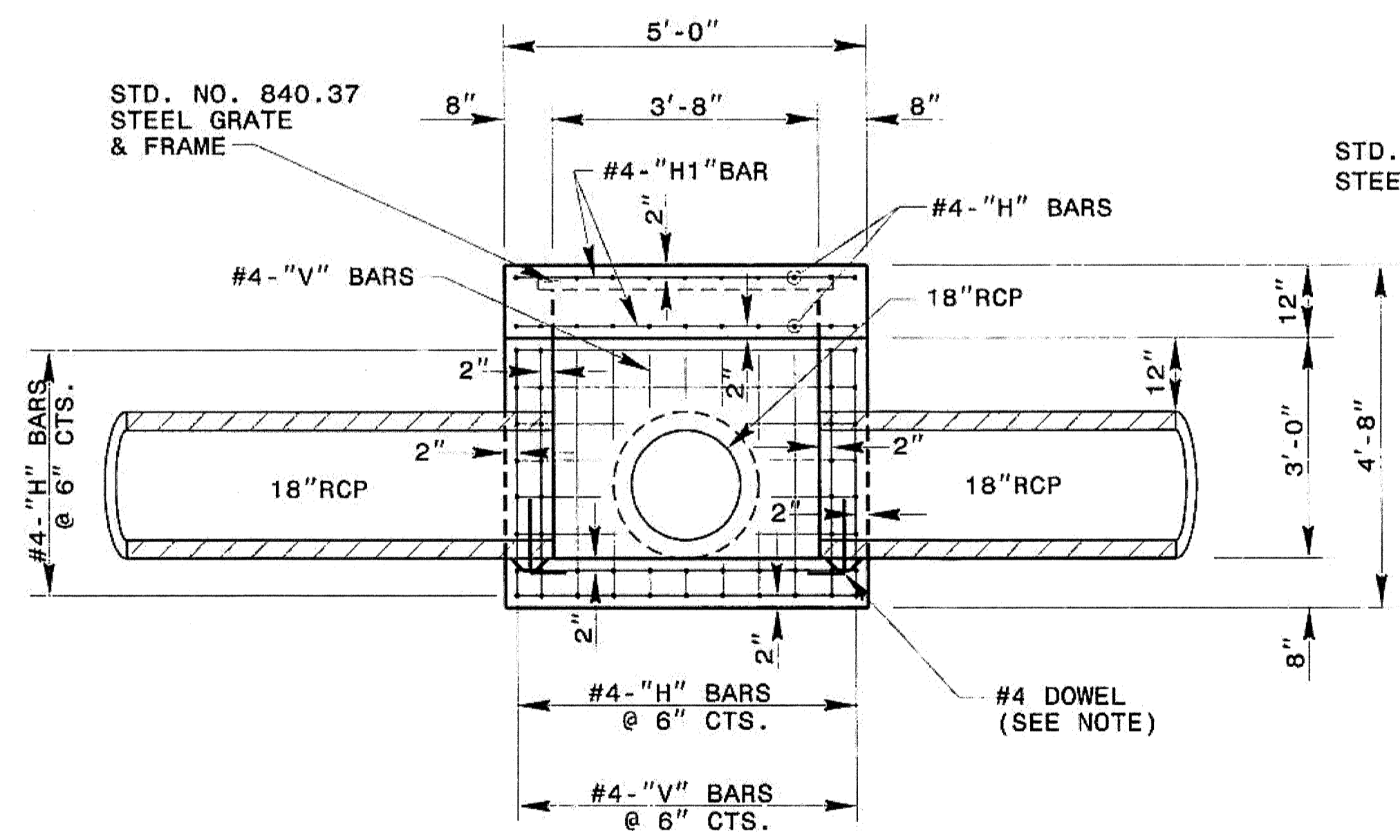


PLAN

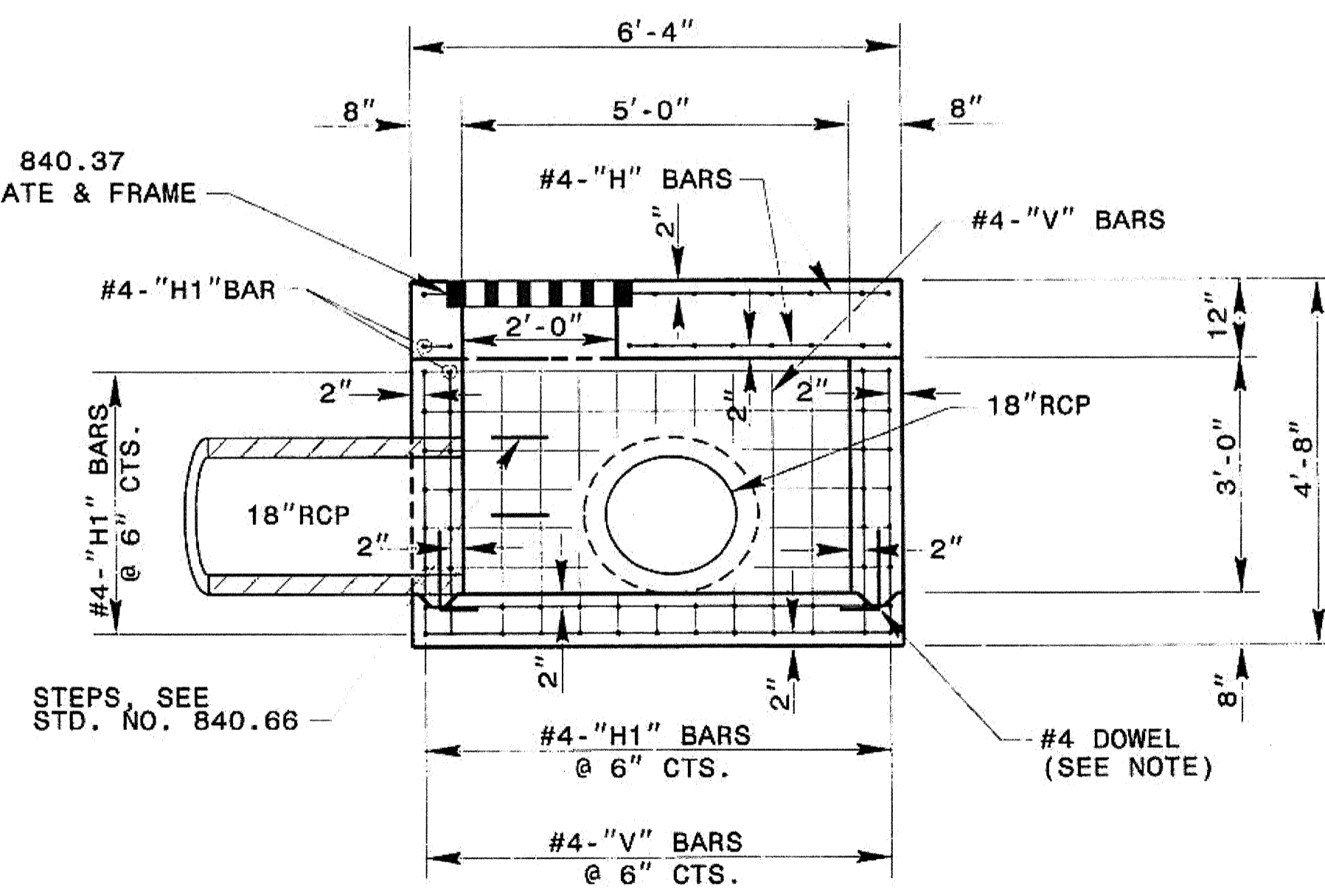


DOWEL

GENERAL NOTES:
 USE CLASS "AA" CONCRETE THROUGHOUT.
 PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
 USE STD. NO. 840.37 FOR STEEL GRATE AND FRAME.
 DIMENSIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
 MAINTAIN A MINIMUM OF 2" CLEARANCE ON ALL REINFORCING STEEL.
 REINFORCING STEEL TO BE CUT, BENT OR RELOCATED TO POSITION PIPE AS DIRECTED BY THE ENGINEER.
 CHAMFER ALL EXPOSED CORNERS 1".

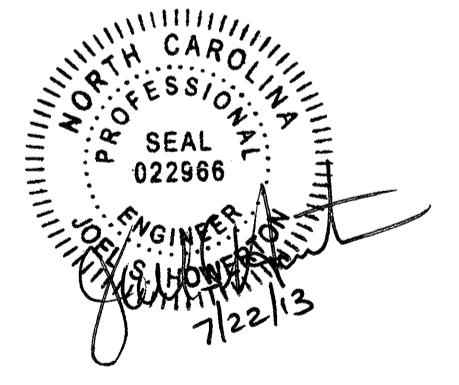


SECTION X-X



SECTION Y-Y

BILL OF MATERIALS				
BAR	NO.	SIZE	LENGTH	WEIGHT
H	68	#4	6'-0"	273
H1	70	#4	4'-8"	219
V	80	#4	3'-4"	179
TOTAL REINF. STEEL (lbs)				671
CLASS "AA" CONC. (cu. yds)				3.5
DEDUCTIONS FOR PIPES				
3 @ 18" RCP				-0.3
DEDUCTIONS FOR INLET				-0.3
TOTAL CONC. (cu. yds)				2.9



CONTRACT STANDARDS & DEVELOPMENT UNIT
 STANDARDS AND SPECIAL DESIGN
 Office 919-707-6900 FAX 919-250-4119

**TRAFFIC BEARING
 DOUBLE GRATE INLET DETAIL**

ORIGINAL BY: *mbj* DATE: 04-19-13
 MODIFIED BY: *mbj* DATE: 04-19-13
 CHECKED BY: *mbj* DATE: 7/22/13
 FILE SPEC: *mbj*

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202664

ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
000100000-N	800	Lump Sum		MOBILIZATION	334500000-E	864	1,500	LF	REMOVE & RESET EXISTING GUARDRAIL	482500000-E	1205	2,500	LF	PAINT PAVEMENT MARKING LINES (12")
004300000-N	226	Lump Sum		GRADING	336000000-E	863	9,310	LF	REMOVE EXISTING GUARDRAIL	483500000-E	1205	50	LF	PAINT PAVEMENT MARKING LINES (24")
005000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING	350300000-E	866	16,520	LF	WOVEN WIRE FENCE, 47" FABRIC	484700000-E	1205	750	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)
005700000-E	226	400	CY	UNDERCUT EXCAVATION	350900000-E	866	1,010	EA	4" TIMBER FENCE POSTS, 7'-6" LONG	484710000-E	1205	35,800	LF	POLYUREA PAVEMENT MARKING LINES (6", *****) (HIGHLY REFLECTIVE ELEMENTS)
019500000-E	265	200	CY	SELECT GRANULAR MATERIAL	351500000-E	866	311	EA	5" TIMBER FENCE POSTS, 8'-0" LONG	484712000-E	1205	2,500	LF	POLYUREA PAVEMENT MARKING LINES (12", *****) (HIGHLY REFLECTIVE ELEMENTS)
019600000-E	270	35,300	SY	GEOTEXTILE FOR SOIL STABILIZATION	355700000-E	866	17,520	LF	ADDITIONAL BARBED WIRE	490500000-N	1253	120	EA	SNOWPLOWABLE PAVEMENT MARKERS
031800000-E	300	40	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	357500000-E	SP	5,400	LF	GENERIC FENCING ITEM REMOVE & REPLACE GLARE SCREEN	493500000-N	1267	24	EA	FLEXIBLE DELINEATORS (CRYSTAL)
032000000-E	300	680	SY	FOUNDATION CONDITIONING GEOTEXTILE	362800000-E	876	4	TON	RIP RAP, CLASS 1	494000000-N	1267	18	EA	FLEXIBLE DELINEATORS (YELLOW)
044830000-E	310	254	LF	18" RC PIPE CULVERTS, CLASS IV	404800000-E	902	15	CY	REINFORCED CONCRETE SIGN FOUNDATIONS	600000000-E	1605	980	LF	TEMPORARY SILT FENCE
044840000-E	310	86	LF	24" RC PIPE CULVERTS, CLASS IV	405400000-E	902	1	CY	PLAIN CONCRETE SIGN FOUNDATIONS	600600000-E	1610	270	TON	STONE FOR EROSION CONTROL, CLASS A
099500000-E	340	224	LF	PIPE REMOVAL	405700000-E	SP	40	CY	OVERHEAD FOOTING	600900000-E	1610	285	TON	STONE FOR EROSION CONTROL, CLASS B
109950000-E	505	11,700	CY	SHALLOW UNDERCUT	406600000-E	903	4,735	LB	SUPPORTS, SIMPLE STEEL BEAM	601200000-E	1610	385	TON	SEDIMENT CONTROL STONE
109970000-E	505	22,880	TON	CLASS IV SUBGRADE STABILIZATION	407200000-E	903	1,725	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	601500000-E	1615	15	ACR	TEMPORARY MULCHING
129700000-E	607	6,500	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (4")	408210000-N	SP	Lump Sum		SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (141+30-L-)	601800000-E	1620	650	LB	SEED FOR TEMPORARY SEEDING
130800000-E	607	65,000	SY	MILLING ASPHALT PAVEMENT, **** TO ***** (0' TO 4')	408210000-N	SP	Lump Sum		SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (85+90 -RAMP REV-)	602100000-E	1620	3	TON	FERTILIZER FOR TEMPORARY SEEDING
133000000-E	607	1,200	SY	INCIDENTAL MILLING	409600000-N	904	7	EA	SIGN ERECTION, TYPE D	602900000-E	SP	100	LF	SAFETY FENCE
149100000-E	610	24,270	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C	410200000-N	904	53	EA	SIGN ERECTION, TYPE E	603000000-E	1630	420	CY	SILT EXCAVATION
150300000-E	610	21,900	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	410800000-N	904	11	EA	SIGN ERECTION, TYPE F	603600000-E	1631	8,500	SY	MATTING FOR EROSION CONTROL
152300000-E	610	9,950	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	410900000-N	904	6	EA	SIGN ERECTION, TYPE *** (OVERHEAD)	603700000-E	SP	100	SY	COIR FIBER MAT
157500000-E	620	2,710	TON	ASPHALT BINDER FOR PLANT MIX	410900000-N	904	7	EA	SIGN ERECTION, TYPE *** (OVERHEAD) (B)	603800000-E	SP	755	SY	PERMANENT SOIL REINFORCEMENT MAT
184000000-E	665	53,250	LF	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	411000000-N	904	20	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	604200000-E	1632	1,150	LF	1/4" HARDWARE CLOTH
189100000-E	SP	240	SY	GENERIC PAVING ITEM REPAIR OF JOINTED CONCRETE PAVEMENT SLABS	411000000-N	904	12	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	607101000-E	SP	140	LF	WATTLE
200000000-N	806	6	EA	RIGHT OF WAY MARKERS	411000000-N	904	14	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	607102000-E	SP	80	LB	POLYACRYLAMIDE (PAM)
209900000-E	816	6,240	LF	SHOULDER DRAIN	411400000-N	904	4	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)	607103000-E	1640	170	LF	COIR FIBER BAFFLE
211000000-E	816	6,240	LF	4" SHOULDER DRAIN PIPE	415200000-N	907	14	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	608400000-E	1660	20	ACR	SEEDING & MULCHING
212100000-E	816	330	LF	4" OUTLET PIPE FOR SHOULDER DRAINS	415800000-N	907	4	EA	DISPOSAL OF SIGN SYSTEM, WOOD	608700000-E	1660	10	ACR	MOWING
213200000-N	816	10	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	423400000-N	907	5	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)	609000000-E	1661	250	LB	SEED FOR REPAIR SEEDING
228600000-N	840	6	EA	MASONRY DRAINAGE STRUCTURES	425100000-N	907	3	EA	DISPOSAL OF LIGHTING SYSTEM	609300000-E	1661	0.75	TON	FERTILIZER FOR REPAIR SEEDING
236500000-N	840	37	EA	FRAME WITH TWO GRATES, STD 840.22	440000000-E	1110	479	SF	WORK ZONE SIGNS (STATIONARY)	609600000-E	1662	450	LB	SEED FOR SUPPLEMENTAL SEEDING
237400000-N	840	2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	440500000-E	1110	560	SF	WORK ZONE SIGNS (PORTABLE)	610800000-E	1665	13.25	TON	FERTILIZER TOPDRESSING
240700000-N	840	1	EA	STEEL FRAME WITH TWO GRATES, STD 840.37	441000000-E	1110	50	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	611450000-N	1667	30	MHR	SPECIALIZED HAND MOWING
247300000-N	SP	1	EA	GENERIC DRAINAGE ITEM OTCB TOP SLAB	441500000-N	1115	2	EA	FLASHING ARROW BOARD	611700000-N	SP	25	EA	RESPONSE FOR EROSION CONTROL
254900000-E	846	190	LF	2'-6" CONCRETE CURB & GUTTER	442000000-N	1120	4	EA	PORTABLE CHANGEABLE MESSAGE SIGN					
261200000-E	848	20	SY	6" CONCRETE DRIVEWAY	443000000-N	1130	500	EA	DRUMS					
271000000-N	854	4	EA	CONCRETE BARRIER TRANSITION SECTION	444500000-E	1145	150	LF	BARRICADES (TYPE III)					
280000000-N	858	1	EA	ADJUSTMENT OF CATCH BASINS	446500000-N	1160	2	EA	TEMPORARY CRASH CUSHIONS					
281500000-N	858	5	EA	ADJUSTMENT OF DROP INLETS	447000000-N	1160	4	EA	RESET TEMPORARY CRASH CUSHION					
283000000-N	858	1	EA	ADJUSTMENT OF MANHOLES	448000000-N	1165	2	EA	TMA					
287500000-N	859	36	EA	CONVERT EXISTING CATCH BASIN TO DROP INLET	448500000-E	1170	440	LF	PORTABLE CONCRETE BARRIER					
303000000-E	862	8,500	LF	STEEL BM GUARDRAIL	450000000-E	1170	880	LF	RESET PORTABLE CONCRETE BARRIER					
315000000-N	862	10	EA	ADDITIONAL GUARDRAIL POSTS	465000000-N	1251	5,400	EA	TEMPORARY RAISED PAVEMENT MARKERS					
321000000-N	862	6	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	471000000-E	1205	70	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)					
327000000-N	SP	12	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	472500000-E	1205	20	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)					
328500000-N	SP	1	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350	481000000-E	1205	4,200	LF	PAINT PAVEMENT MARKING LINES (4")					
331700000-N	862	8	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77	481500000-E	1205	99,300	LF	PAINT PAVEMENT MARKING LINES (6")					
331900000-N	862	9	EA	GUARDRAIL ANCHOR UNITS, TYPE B-83										


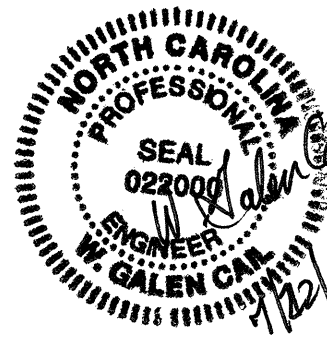
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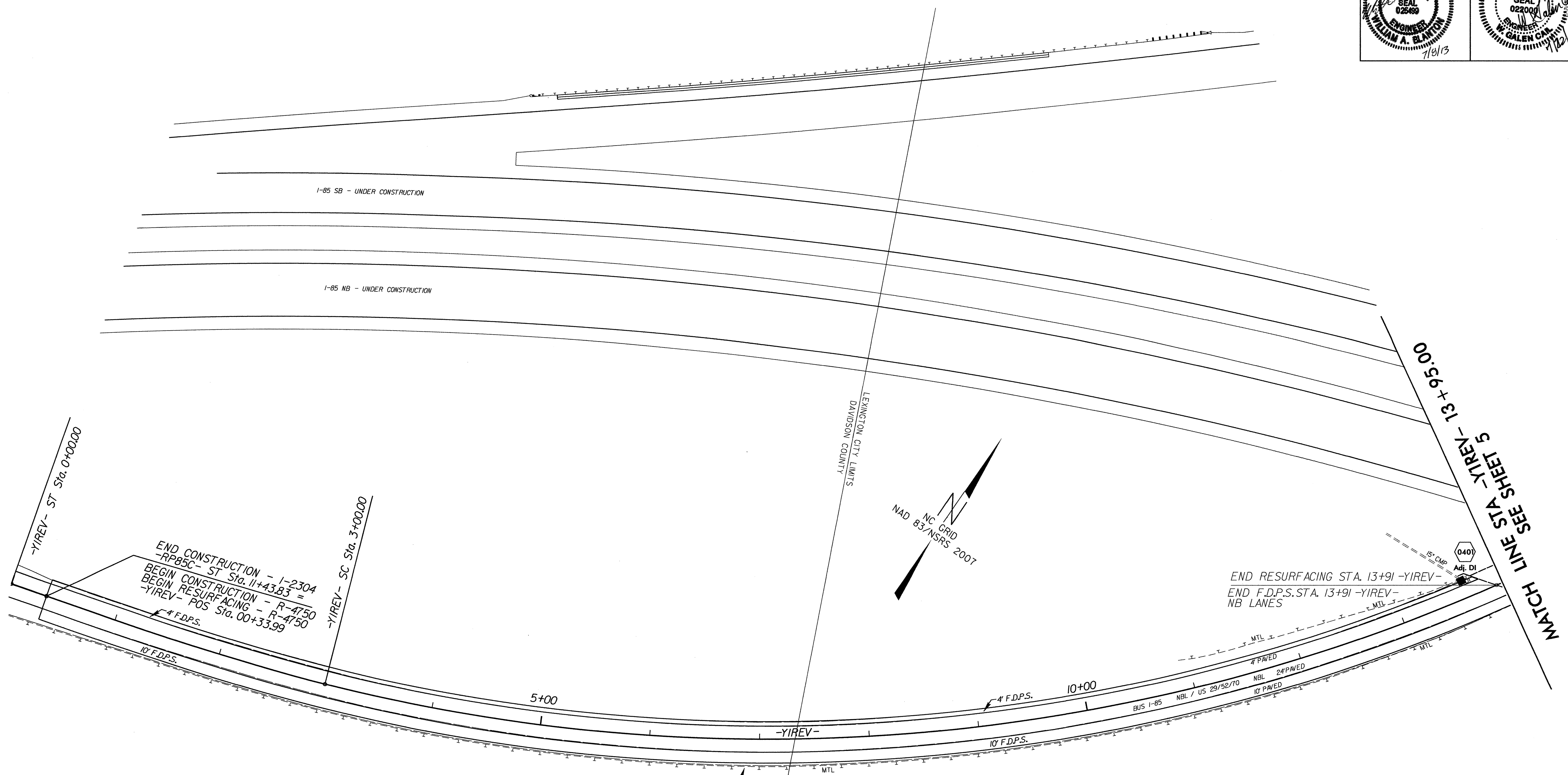
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
R-4750	30

PARCEL INDEX

PARCEL	SHEET NO.	PROPERTY OWNER NAME
<i>1</i>	<i>4</i>	<i>LBT, LLC</i>
<i>2</i>	<i>4</i>	<i>GREGORY K. HENDRICK</i>
<i>3</i>	<i>4</i>	<i>CYNTHIA DELANE MYERS</i>

PROJECT REFERENCE NO. R-4750	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 WILLIAM A. BLANTON 7/12/13	 WILLIAM A. BLANTON 7/12/13



-YIREV- ST Sta. 0+00.00
 -YIREV- SC Sta. 3+00.00
 END CONSTRUCTION - I-2304
 -RP85C- ST Sta. 11+43.83 =
 BEGIN CONSTRUCTION - R-4750
 BEGIN RESURFACING - R-4750
 -YIREV- POS Sta. 00+33.99

END RESURFACING STA. 13+91 -YIREV-
 END F.D.P.S. STA. 13+91 -YIREV-
 NB LANES

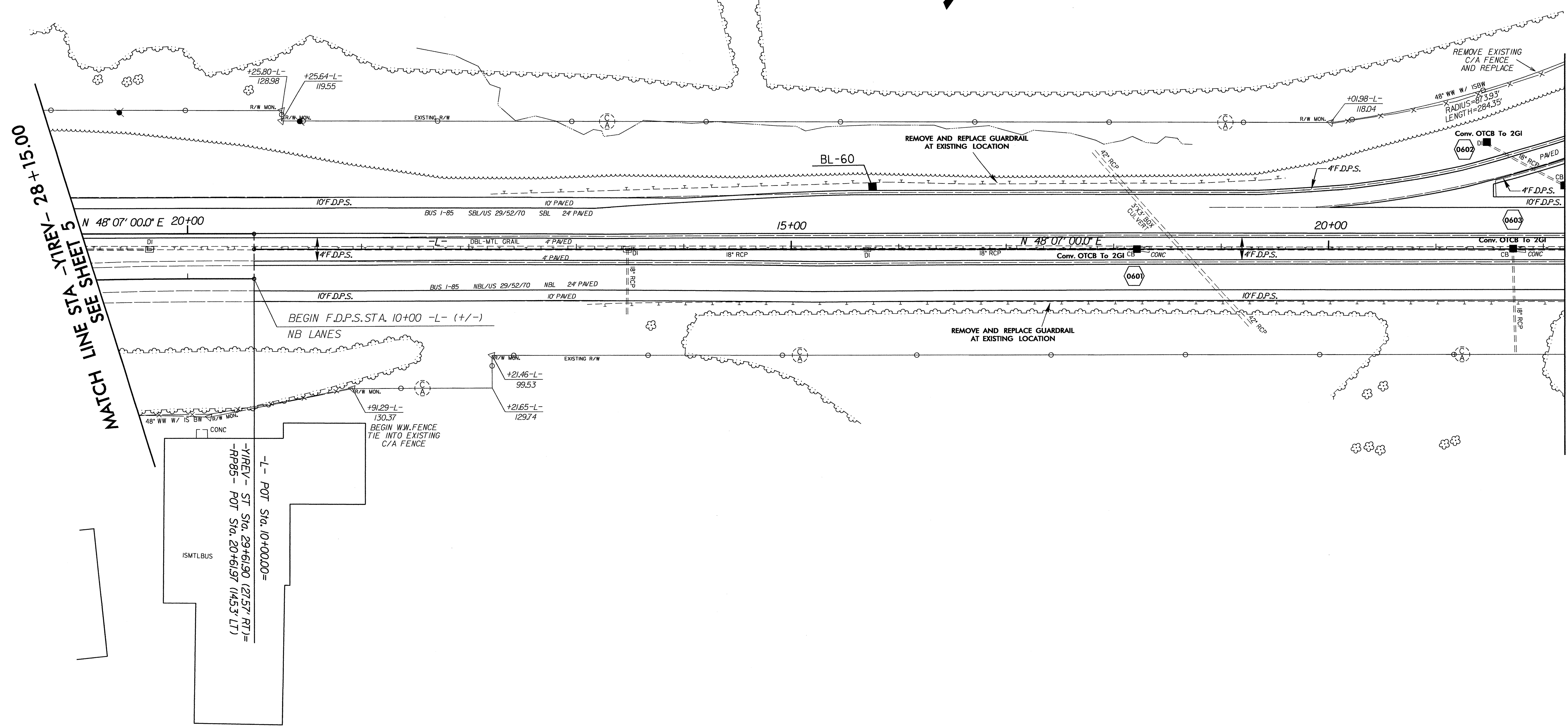
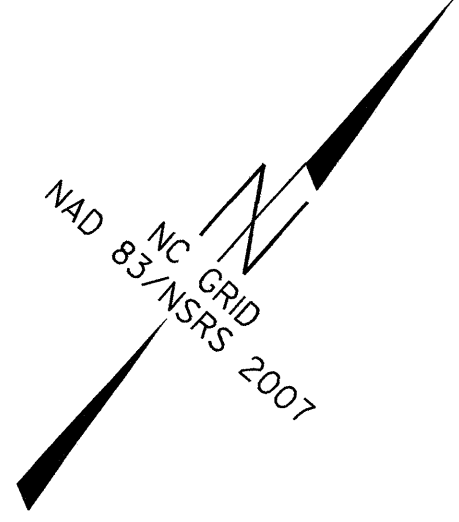
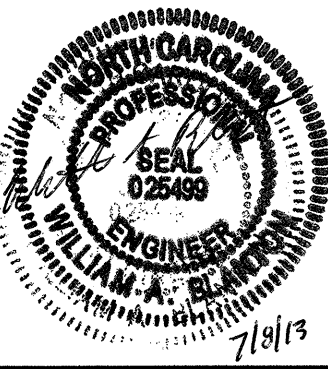
-YIREV-

PIs Sta 2+00.09	PI Sta 9+64.17
$\theta_s = 5' 15' 00.0''$	$\Delta = 44' 09' 59.9''$ (LT)
$L_s = 300.00'$	$D = 3' 30' 00.0''$
$LT = 200.09'$	$L = 1,261.90'$
$ST = 100.08'$	$T = 664.17'$
	$R = 1,637.02'$

REVISIONS

8/17/99

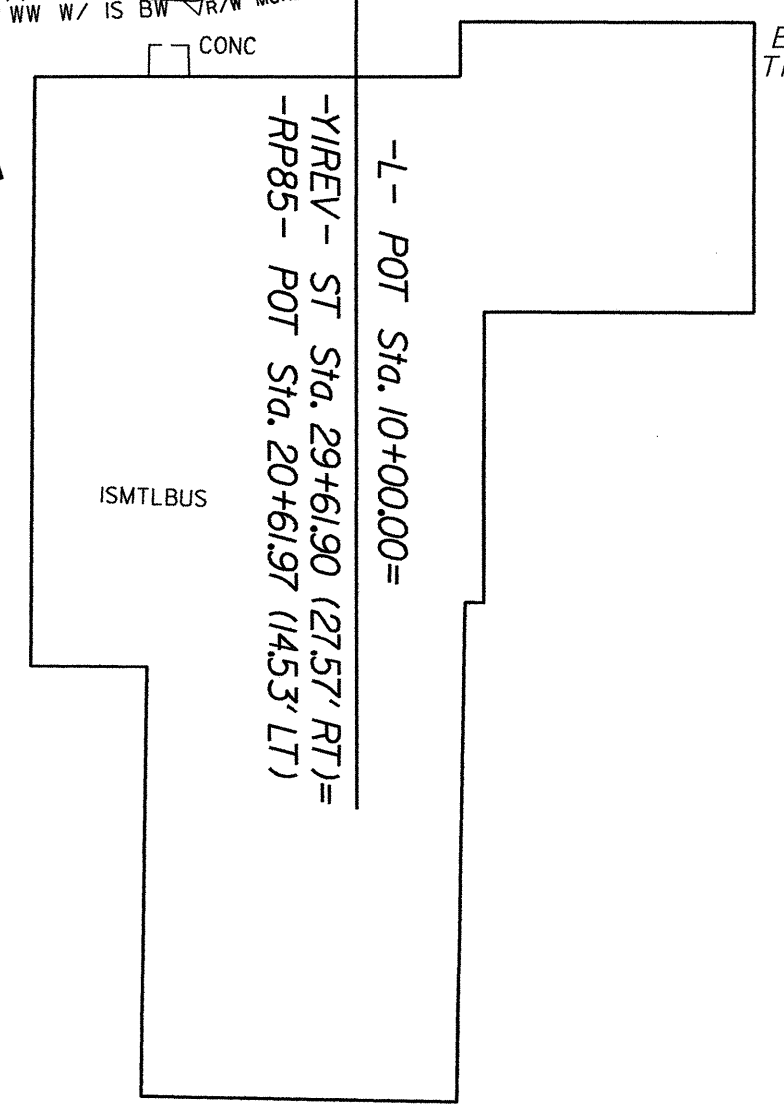
05:00:00 2017 08:43
 S:\001\2017\08\17\0817_0817.psh_4.dgn
 15:56:38
 20170817 15:56:38
 p:\inesp\h



MATCH LINE STA -Y1REV- 28+15.00
SEE SHEET 5

MATCH LINE STA -L- 22+20.00
SEE SHEET 7

REVISIONS



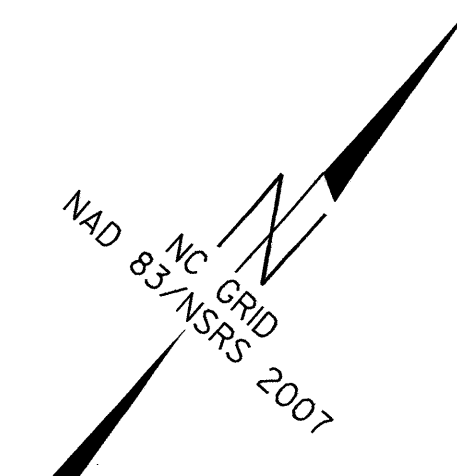
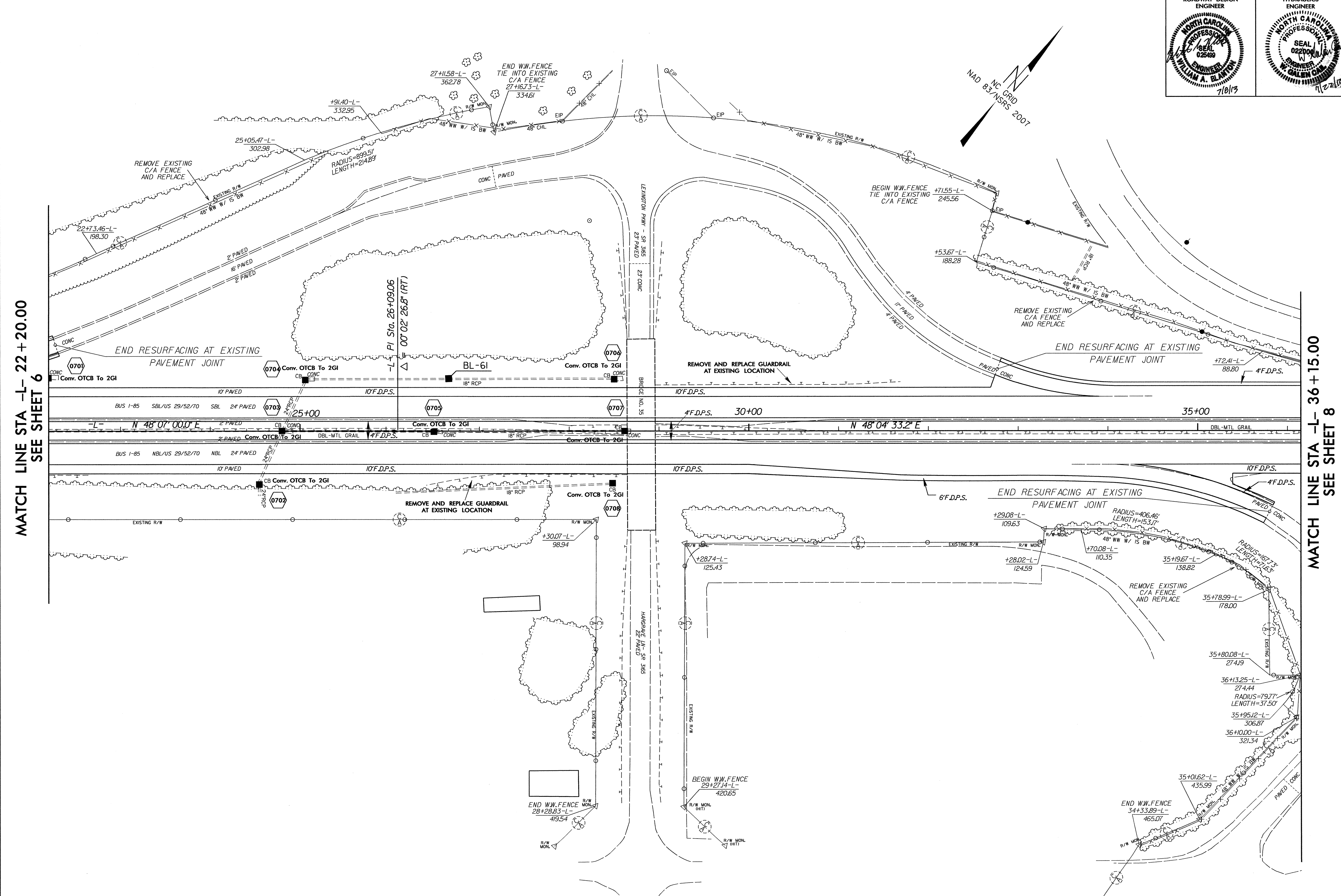
8/17/99
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AT 09:41:26:88

PROJECT REFERENCE NO. R-4750		SHEET NO. 7	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

8/17/99

MATCH LINE STA -L- 22 + 20.00
SEE SHEET 6

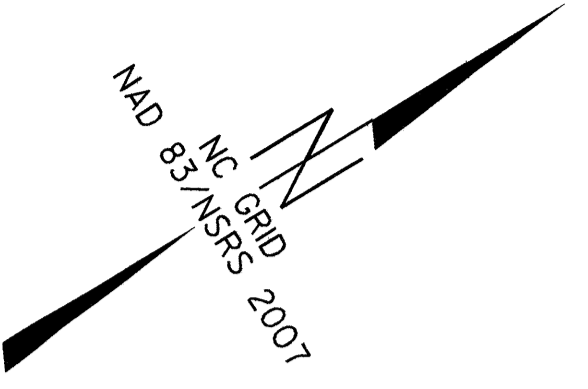
MATCH LINE STA -L- 36 + 15.00
SEE SHEET 8



REVISIONS

05:00 2013/08/16 10:46
 C:\projects\R-4750-Rd4-psh-7.dgn
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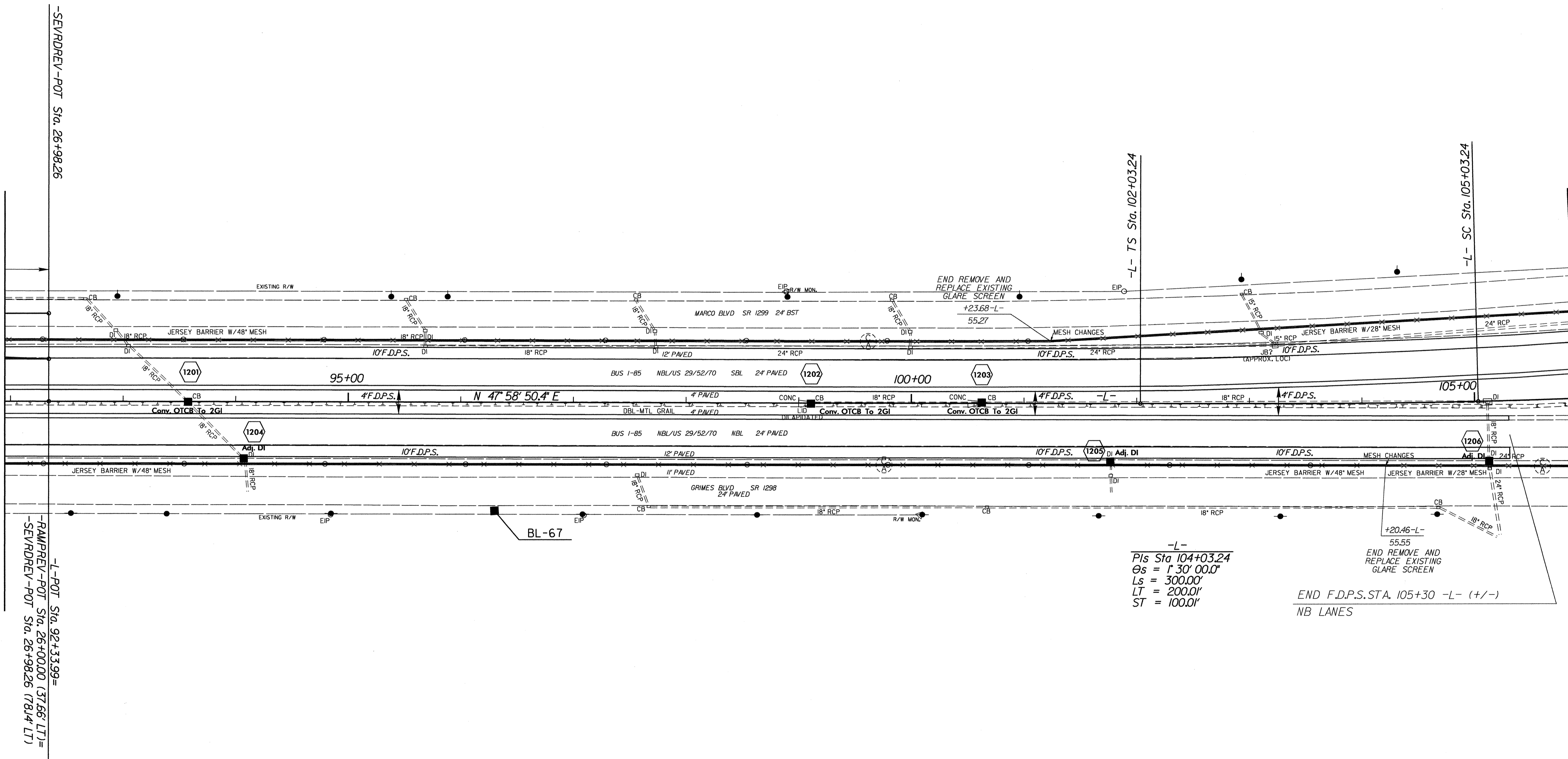
PROJECT REFERENCE NO. R-4750	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER WILLIAM A. BLANTON 7/19/13	HYDRAULICS ENGINEER W. GALEN DALY 7/2/13



3/26/13

REVISIONS

MATCH LINE STA -L- 91 + 95.00
SEE SHEET 11



-SEV/RPREV-POI Sta. 26+98.26

-L-FOI Sta. 92+33.99=
-SEV/RPREV-POI Sta. 26+00.00 (37.66' LT)=
-SEV/RPREV-POI Sta. 26+98.26 (78.14' LT)

-L-
Pis Sta 104+03.24
theta_s = 1' 30' 00.0"
Ls = 300.00'
LT = 200.00'
ST = 100.00'

END F.D.P.S. STA. 105+30 -L- (+/-)
NB LANES

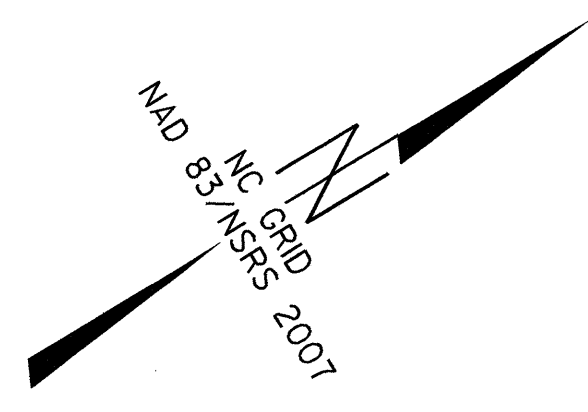
-L- SC Sta. 105+03.24

-L- TS Sta. 102+03.24

MATCH LINE STA -L- 105 + 90.00
SEE SHEET 13

S:\DWG\2013\07\13\03\enr\sheet\12-4750_Rdy_psh_12.dgn
P:\nescham

PROJECT REFERENCE NO. R-4750	SHEET NO. 13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

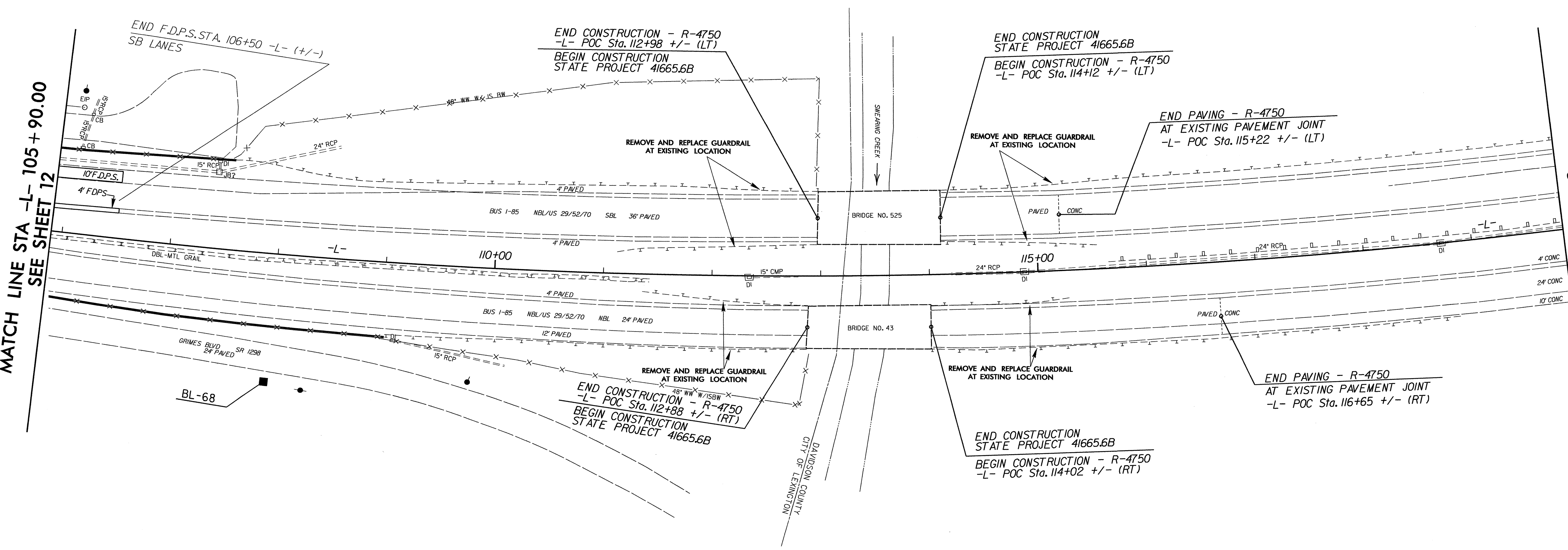


8/17/99

REVISIONS

MATCH LINE STA -L- 105 + 90.00
SEE SHEET 12

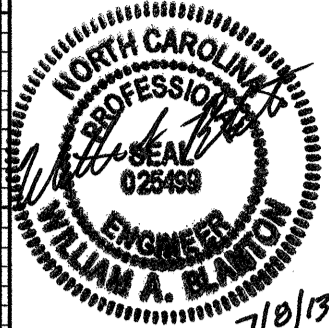
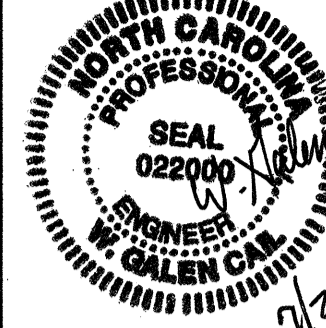
MATCH LINE STA -L- 119 + 85.00
SEE SHEET 14

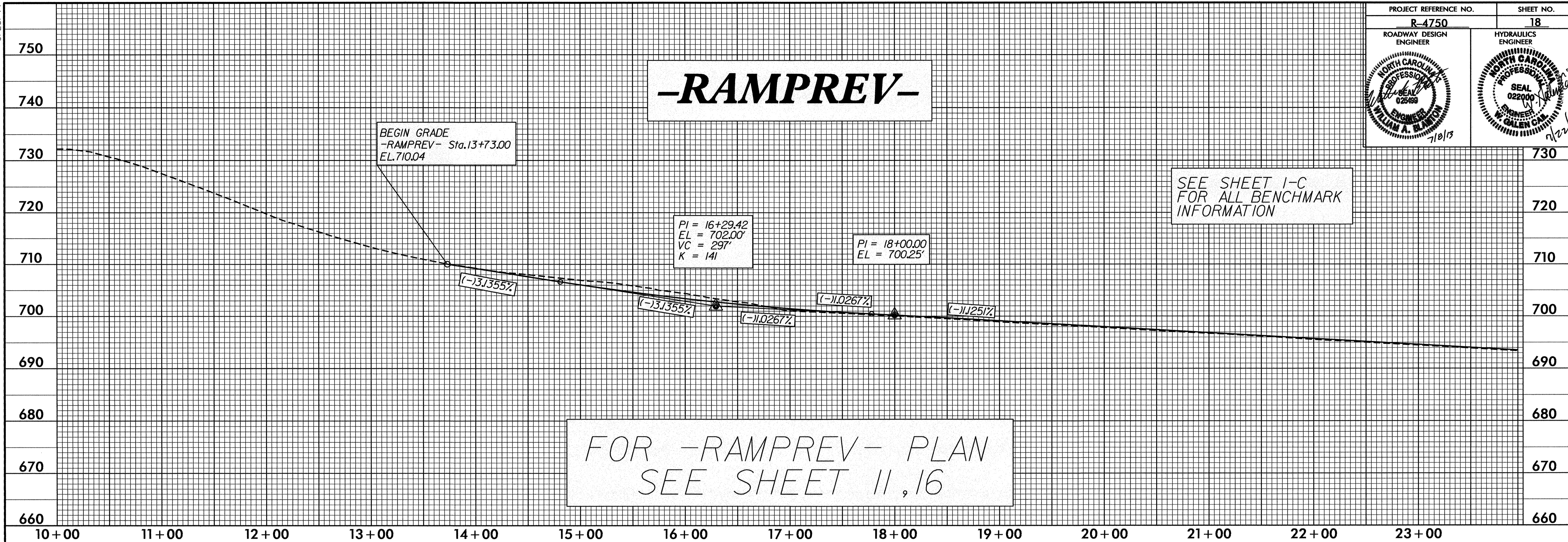


-L-
 PI Sta 119+30.90
 $\Delta = 27^{\circ} 59' 00.0''$ (LT)
 $D = 1' 00'' 00.0''$
 $L = 2,798.33'$
 $T = 1,427.66'$
 $R = 5,729.58'$

S:\Dell\2013\09\59\Projects\Sheet\4750-Rdy.pch.13.dgn
 8/17/13 10:27:50
 AT: D:\CADD\258638
 J:\asesham

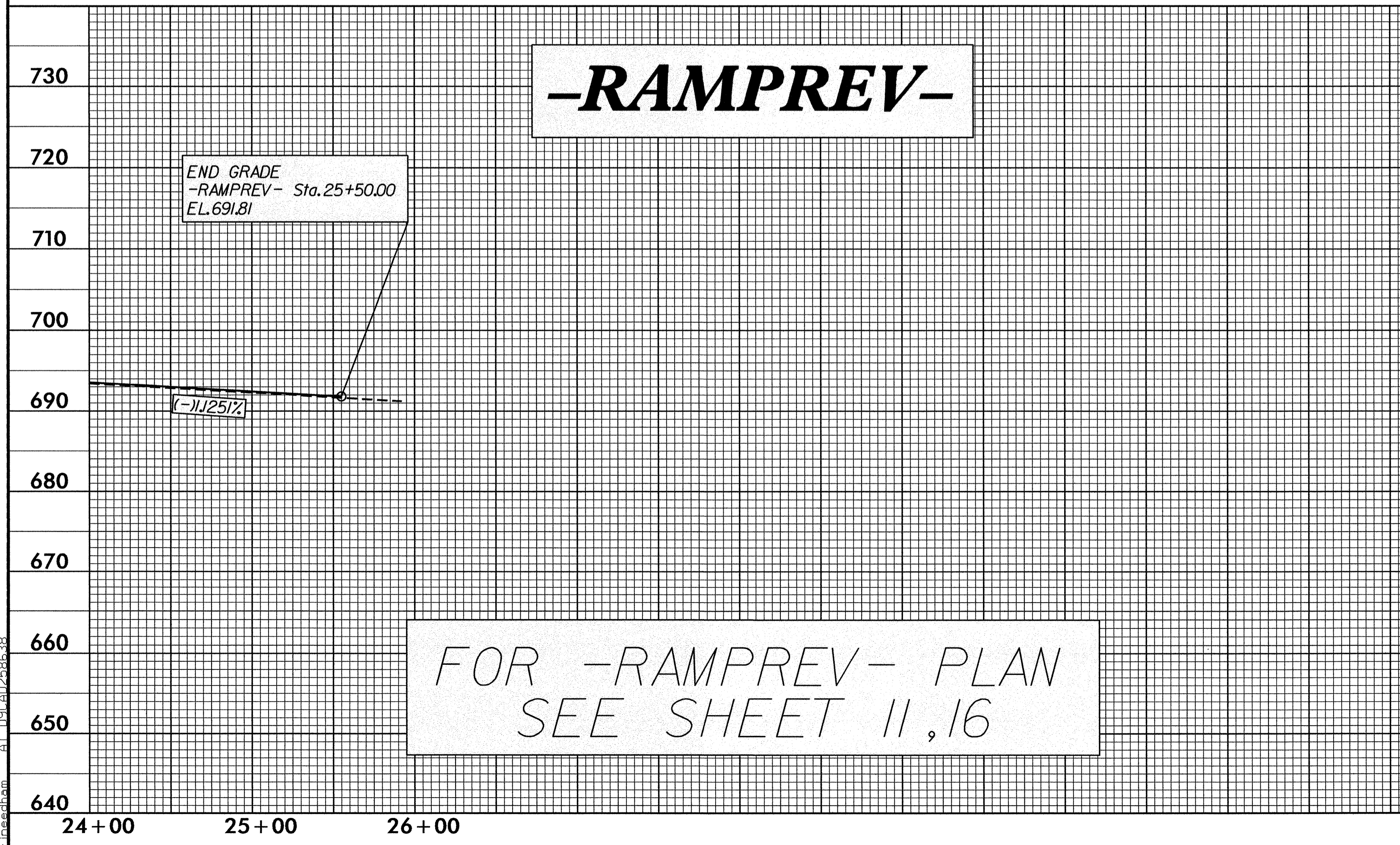
5/28/99

PROJECT REFERENCE NO. R-4750	SHEET NO. 18
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

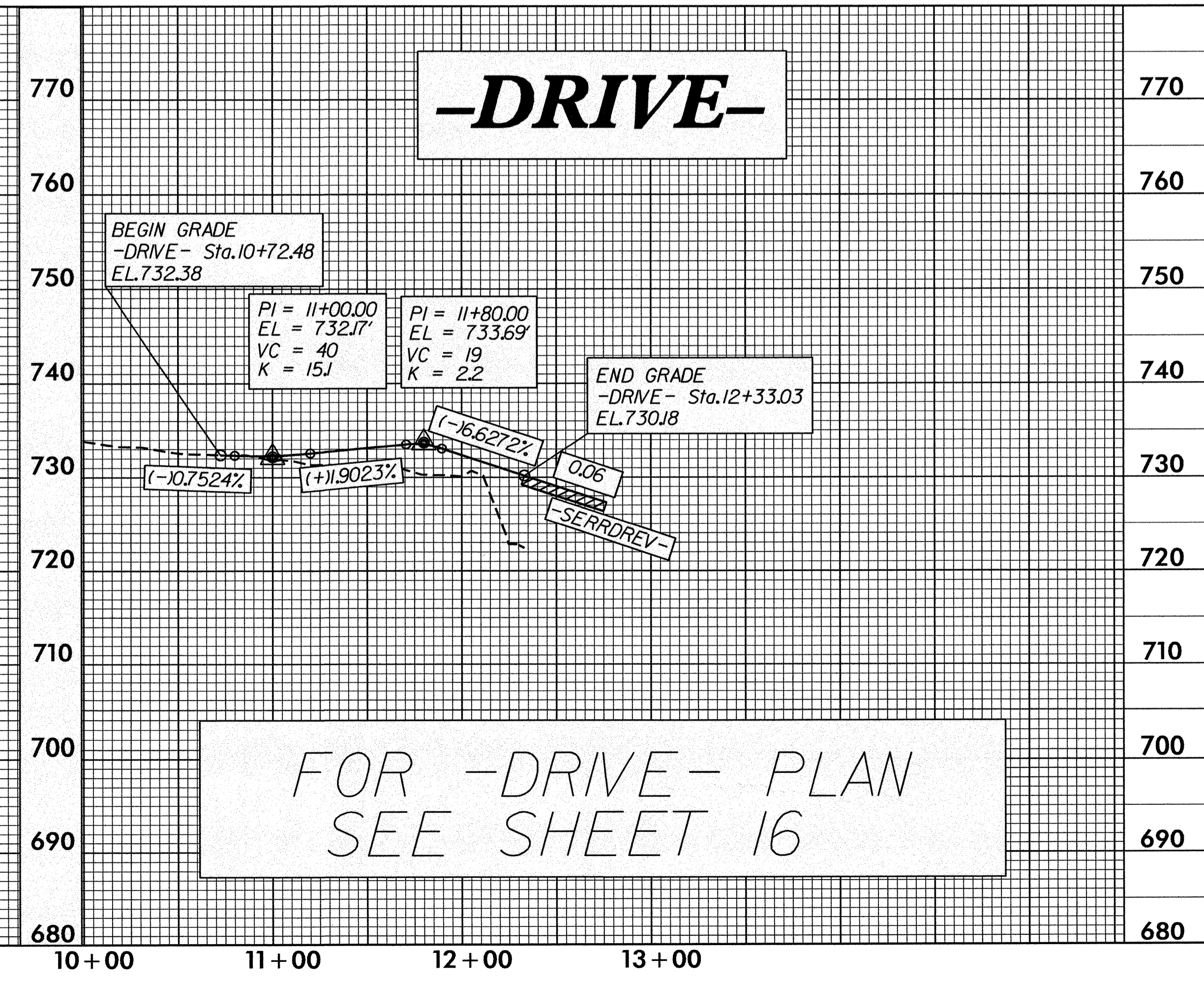


SEE SHEET I-C FOR ALL BENCHMARK INFORMATION

FOR -RAMPREV- PLAN SEE SHEET 11, 16



FOR -RAMPREV- PLAN SEE SHEET 11, 16



FOR -DRIVE- PLAN SEE SHEET 16

05 JUL 2013 10:53 AM R:\4750\18\18-11-RAMPREV.dgn