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09/08/99

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

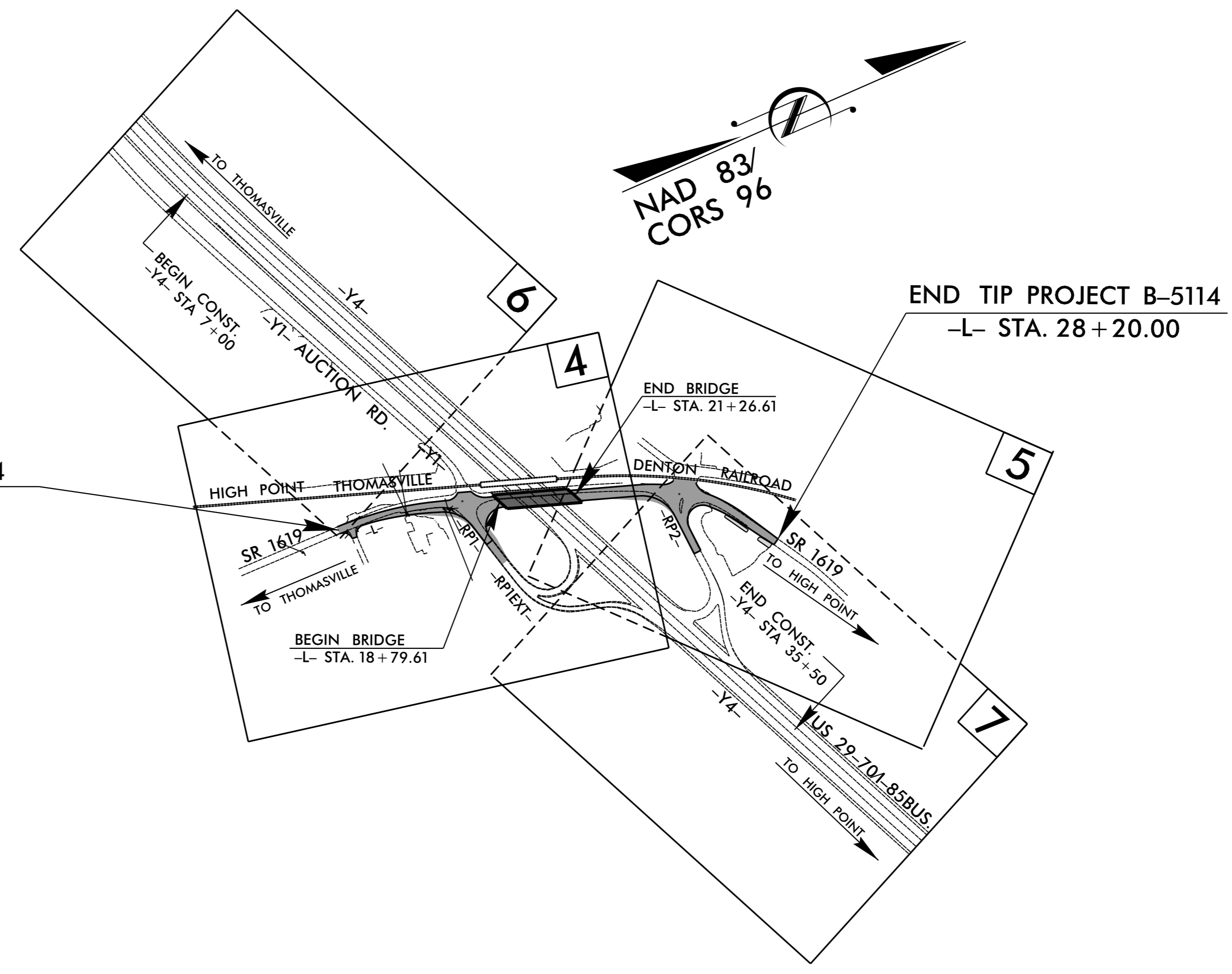
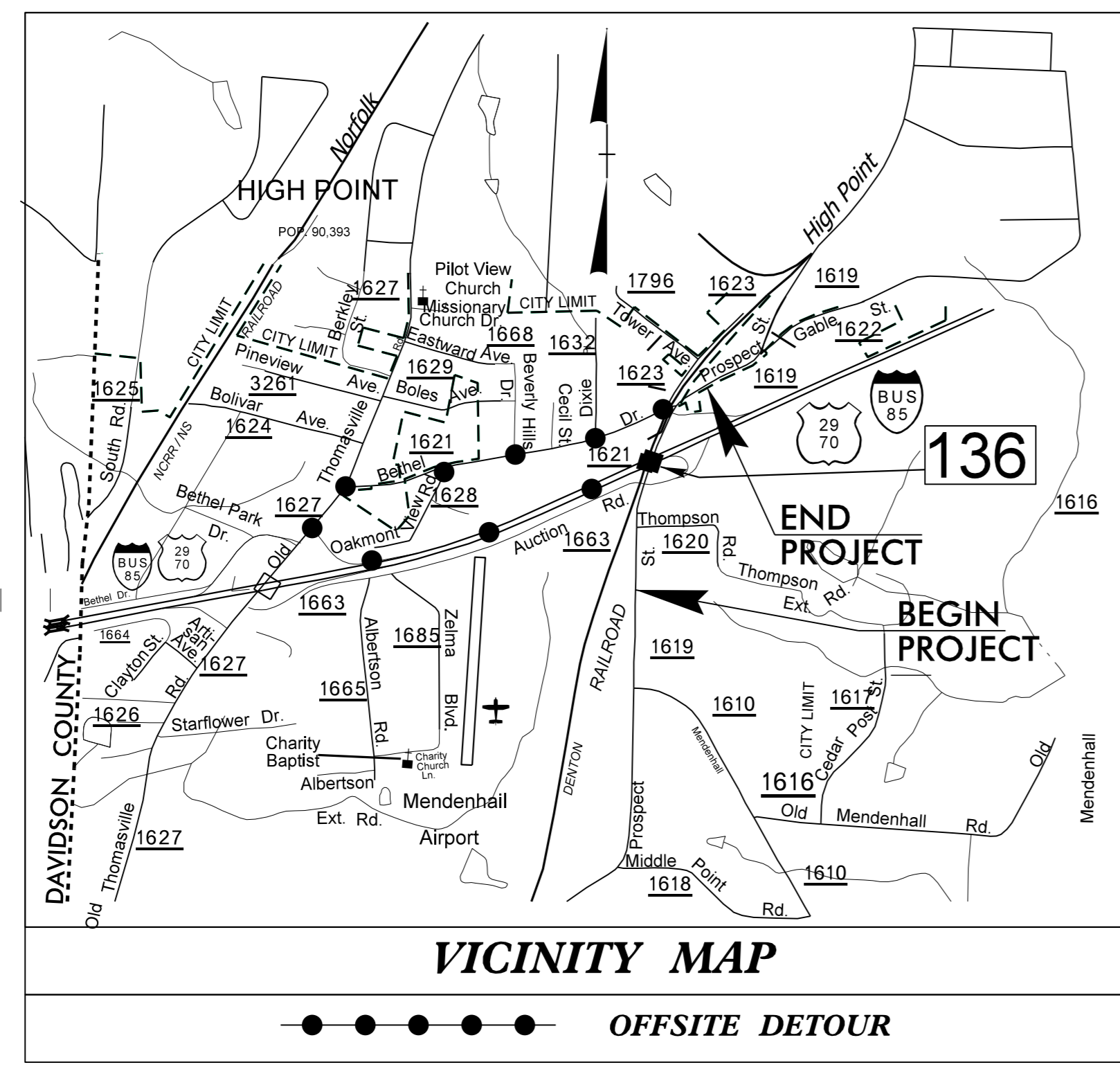
RANDOLPH COUNTY

**LOCATION: BRIDGE 136 OVER US 29-70A-85 BUSINESS ON
SR 1619 (PROSPECT STREET) IN HIGH POINT**

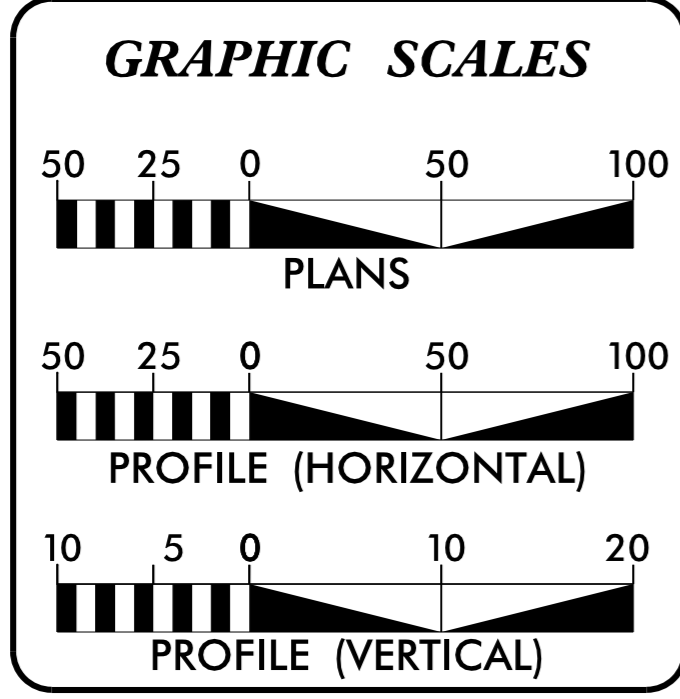
TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURE AND SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5114	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42252.1.1	BRZ-1619(5)	PE	
42252.2.FR1	BRZ-1619(5)	ROW	
42252.2.FRUI	BRZ-1619(5)	UTL	
42252.3.FR1	BRZ-1619(5)	CONST.	

TIP PROJECT: B-5114



CONTRACT: C203589



DESIGN DATA

ADT 2015 =	8,300
ADT 2035 =	12,300
K =	11 %
D =	70 %
T =	8 % *
V =	40 MPH
* TTST 3% DUAL 5%	
FUNC CLASS =	MINOR ARTERIAL
	STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5114 =	0.234 MI
LENGTH STRUCTURE TIP PROJECT B-5114 =	0.047 MI
TOTAL LENGTH OF TIP PROJECT B-5114 =	0.281 MI

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

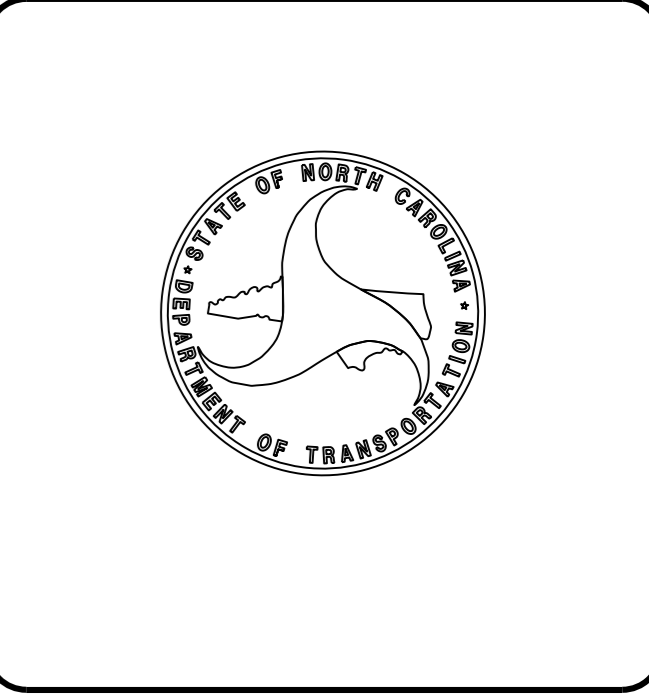
2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: APRIL 16, 2014	JAMES A. SPEER, PE PROJECT ENGINEER
LETTING DATE: JUNE 16, 2015	ALLISON K. WHITE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

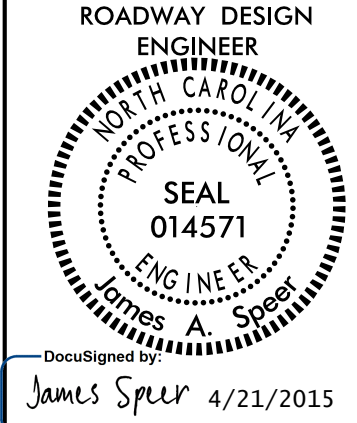
DocuSigned by:
Ray D. Lovinggood
4/6/2015
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

DocuSigned by:
James A. Speer
4/6/2015
SIGNATURE: P.E.



02-APR-2015 12:00
R:\Roadway\Proj\B5114_Rdy_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1C-1 THRU 1C-2	SURVEY CONTROL SHEETS
2A-1 THRU 2A-3	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2B-1 THRU 2B-2	MEDIAN CROSSOVER AND BRIDGE IN RELATION TO PAVEMENT DETAILS
2C-1	TEMPORARY STEEL COVER DETAIL
2H-1	TEMPORARY CONTAINMENT OF CONTAMINATED SOIL DETAIL
3B-1	SUMMARY OF GUARDRAIL, SUMMARY OF EARTHWORK, SUMMARY OF SHOULDER BERM GUTTER, SUMMARY OF EXPRESSWAY GUTTER, SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT, SUMMARY OF PAVEMENT REMOVAL
3D-1	SUMMARY OF DRAINAGE QUANTITIES
3P-1	PARCEL INDEX SHEET
4-7	PLAN SHEETS
8-10	PROFILE SHEETS
TMP-1 THRU TMP-19	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-5	PAVEMENT MARKING PLANS
EC-1 THRU EC-11	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-8	SIGNING PLANS
SIG-1 THRU SIG-3.3	SIGNAL PLANS
SCP-1	WIRELESS COMMUNICATIONS PLANS
UC-1 THRU UC-6	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-3	UTILITY BY OTHERS PLANS
X-1A	CROSS SECTION VOLUME SHEET
X-1 THRU X-25	PROPOSED CROSS SECTIONS
S-1 THRU S-36	STRUCTURE PLANS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 10-31-2014

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 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.

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.

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

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 DUKE POWER
NORTH STATE COMMUNICATION, PIEDMONT NATURAL GAS
DAVIDSON WATER INC., CITY OF HIGH POINT (WATER)

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 CONTRACT.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

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
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Super-elevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
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 Super-elevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
610.01	Guide for Paving Shoulders Under Bridges - Method I
610.03	Guide for Paving Shoulders Under Bridges - Method III
654.01	Pavement Repairs
665.01	Asphalt Shoulders - Milled Rumble Strips
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
840.17	Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.22	Frames and Wide Slot Sag Grates
840.24	Frames and Narrow Slot Sag Grates
840.26	Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.45	Precast Drainage Structure
840.52	Precast Manhole - 4', 5' and 6' Diameter
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
846.02	Drop Inlet Installation in Expressway Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
852.01	Concrete Islands
857.01	Precast Reinforced Concrete Barrier - 41" Single Faced
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units (Beg. March 2013 Letting use detail in lieu of Standard)
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

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

12/05/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
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	--- MLB
Proposed Wetland Boundary	--- MLB
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	○ S
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	→ FLOW
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	----- RW
Proposed Right of Way Line with Iron Pin and Cap Marker	----- RW ▲
Proposed Right of Way Line with Concrete or Granite RW Marker	----- RW ●
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	-----
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	⊕
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	⊗
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

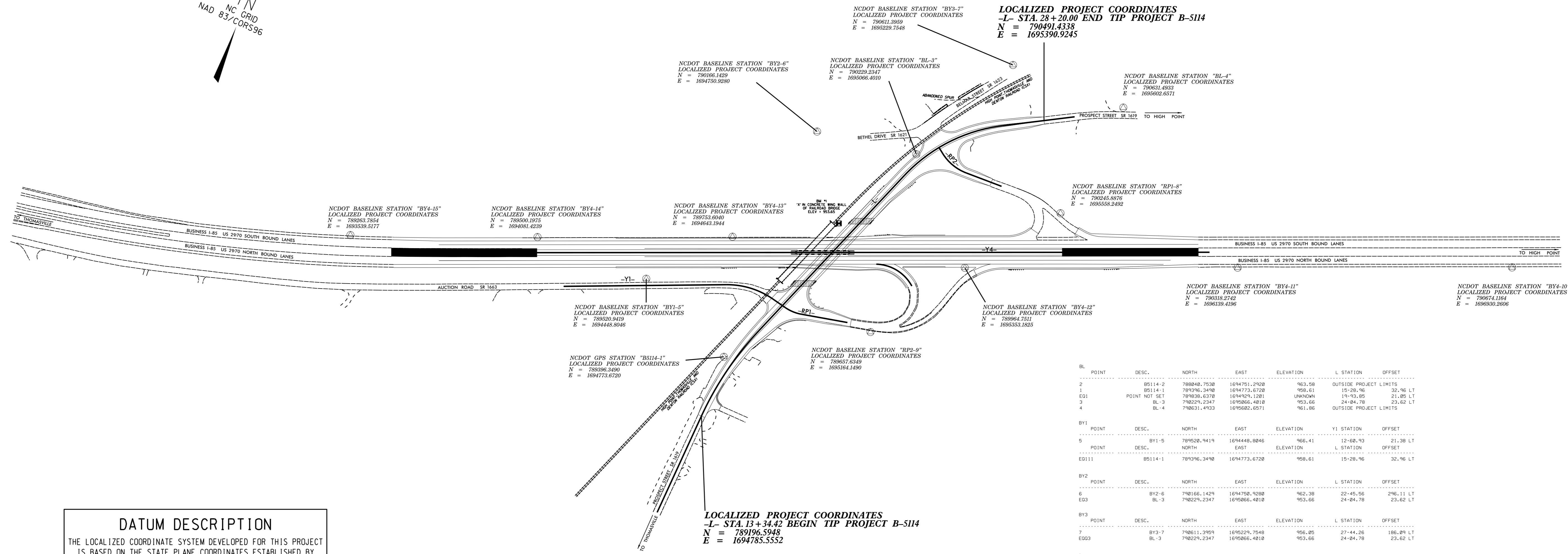
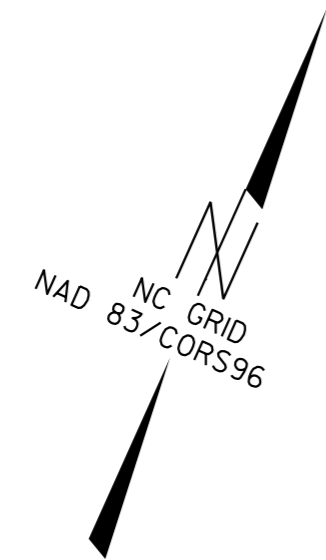
SANITARY SEWER:

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	----- ?U/L
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
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.

SURVEY CONTROL SHEET B-5114



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NGS FOR MONUMENT "B5114-2"

WITH NAD 83/CORS96 STATE PLANE GRID COORDINATES OF
 NORTHING: 788040.753(±ft) EASTING: 1694751.292(±ft)
 ELEVATION: 963.58(±ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989792

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5114-2" TO -L- STATION 11+50.00 IS
 N 01°55'09.4" E 971.975'

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

LOCALIZED PROJECT COORDINATES
 -L- STA. 13+34.42 BEGIN TIP PROJECT B-5114
 N = 789196.5948
 E = 1694785.5552

LOCALIZED PROJECT COORDINATES
 -L- STA. 28+20.00 END TIP PROJECT B-5114
 N = 790491.4338
 E = 1695390.9245

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
2	B5114-2	788040.7530	1694751.2920	963.58	OUTSIDE PROJECT LIMITS	
1	B5114-1	789396.3490	1694773.6720	958.61	15+28.96	32.96 LT
ED1	POINT NOT SET	789838.6370	1694926.1281	UNKNOWN	19+93.85	21.85 LT
3	BL-3	798229.2347	1695866.4810	953.66	24+84.78	23.62 LT
4	BL-4	798631.4933	1695882.6571	961.86	OUTSIDE PROJECT LIMITS	
BY1 POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
5	BY1-5	789528.9419	1694448.8046	966.41	12+60.93	21.38 LT
BY2 POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
6	BY2-6	788166.1429	1694758.9280	962.38	22+45.56	296.11 LT
EO3	BL-3	798229.2347	1695866.4810	953.66	24+84.78	23.62 LT
BY3 POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
7	BY3-7	798611.3959	1695229.7548	956.85	27+44.26	186.89 LT
EO03	BL-3	798229.2347	1695866.4810	953.66	24+84.78	23.62 LT
BY4 POINT	DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
15	BY4-15	789263.7854	1693829.5177	944.73	OUTSIDE PROJECT LIMITS	
14	BY4-14	789588.1975	1694881.4239	954.67	13+11.77	49.16 LT
13	BY4-13	789753.6848	1694643.1944	948.85	19+28.85	49.91 LT
ED11	POINT NOT SET	789838.6370	1694926.1281	UNKNOWN	22+25.78	18.21 LT
12	BY4-12	789984.7511	1695353.1825	932.31	26+62.18	48.67 RT
11	BY4-11	790318.2742	1696139.4196	927.52	OUTSIDE PROJECT LIMITS	
10	BY4-10	790674.1164	1696938.2686	928.29	OUTSIDE PROJECT LIMITS	
BRP1 POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
EO003	BL-3	798229.2347	1695866.4810	953.66	24+84.78	23.62 LT
BRP2 POINT	DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
8	RPI-8	798245.8876	1695958.2492	934.89	29+64.51	123.64 LT
BRP2 POINT	DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
ED12	BY4-12	789984.7511	1695353.1825	932.31	26+62.18	48.67 RT
BRP2 POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
9	RP2-9	789657.6349	1695164.1490	945.10	18+96.17	288.89 RT

NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION](https://connect.ncdot.gov/resources/location)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 B5114_LS_CONTROL.TXT
 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 NGS ONLINE POSITIONING SERVICE (OPUS)

⊙ NCDOT GPS STATION "B5114-2"
 LOCALIZED PROJECT COORDINATES
 N = 788040.7530
 E = 1694751.2920

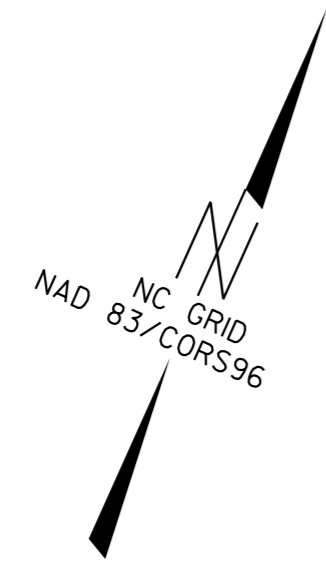
NOTE: DRAWING NOT TO SCALE

6/2/09

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 11:53:00 USER:JLW

SURVEY CONTROL SHEET B-5114

FINAL



L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	788862.1892	1694782.4534
PC	13+34.42	789196.5920	1694785.5552
PT	16+60.74	789516.8078	1694840.6363
PC	23+32.93	790152.4144	1695059.3529
PT	26+87.37	790422.7410	1695277.4648
POT	29+17.13	790541.7391	1695474.0135

RP1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	789619.7487	1694876.0589
PC	10+11.00	789617.7547	1694886.8798
PT	10+66.34	789619.4361	1694941.7777
POT	12+14.33	789655.1099	1695085.3954

RP1_EXT			
TYPE	STATION	NORTH	EAST
POT	12+14.33	789655.1099	1695085.3954
PC	13+13.64	789679.0510	1695181.7789
PT	15+26.14	789820.7988	1695326.5913
PC	16+09.72	789901.4644	1695348.4699
PT	16+91.81	789973.7301	1695386.0699
PC	16+95.89	789976.8618	1695388.6793
PT	17+42.72	790008.8286	1695422.7516

RP2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	790277.8873	1695123.0600
PC	10+22.40	790265.3541	1695141.6233
PT	11+20.44	790239.9400	1695234.5195
POT	12+39.67	790247.0627	1695353.5290

Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	789392.2396	1694220.8197
PC	15+13.54	789607.3299	1694687.1472
PT	16+69.61	789626.4736	1694839.5786
POT	17+06.71	789619.7487	1694876.0589

Y4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	789327.5061	1693817.2312
POT	36+00.00	790393.7250	1696180.5551

ROW MARKER CONCRETE OR GRANITE - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	14+66.00	22.16	789324.6463	1694817.2515
L	15+35.00	35.00	789388.4714	1694841.4472
L	16+10.00	35.00	789458.7140	1694858.9574
L	16+60.74	40.00	789503.7925	1694878.4596
L	26+71.23	-40.00	790447.7111	1695242.0063
L	26+87.37	-40.00	790456.9683	1695256.7483
L	28+20.00	-40.00	790525.6512	1695370.2080
L	28+20.00	-30.00	790517.0969	1695375.3871

ROW MARKER CONCRETE OR GRANITE - E				
ALIGN	STATION	OFFSET	NORTH	EAST
RP1	10+66.34	50.82	789570.1149	1694954.0288

ROW MARKER CONCRETE OR GRANITE - E				
ALIGN	STATION	OFFSET	NORTH	EAST
RP1_EXT	13+13.64	47.70	789632.7577	1695193.2754
RP1_EXT	15+26.14	57.06	789805.8613	1695381.6653
RP1_EXT	16+19.08	45.24	789896.4720	1695394.1720

REBAR PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	15+96.00	82.00	789433.2803	1694900.6232
L	28+20.00	-70.00	790551.3142	1695354.6706
L	27+44.28	-70.00	790512.0961	1695289.8942
L	15+55.00	90.00	789394.9471	1694899.1960
L	15+35.00	50.00	789385.3844	1694856.1261
L	17+00.00	80.00	789527.8962	1694929.0558
L	16+88.00	70.00	789519.8030	1694915.6954

REBAR PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
RP1_EXT	15+26.14	80.00	789799.8573	1695403.8017
RP1_EXT	16+10.94	75.82	789882.3273	1695421.8366
RP1_EXT	16+45.29	79.28	789900.1725	1695432.2629

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NGS FOR MONUMENT "B5114-2"

WITH NAD 83/CORS96 STATE PLANE GRID COORDINATES OF
 NORTHING: 788040.753(±) EASTING: 1694751.292(±)
 ELEVATION: 963.58(±)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989792

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5114-2" TO -L- STATION 12+00.00 IS
 N 01°51'05.0" E 1021.961'

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

NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION](https://connect.ncdot.gov/resources/location)

THE FILES TO BE FOUND ARE AS FOLLOWS:
 B5114_LS_CONTROL.TXT

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 NGS ONLINE POSITIONING SERVICE (OPUS)

NOTE: DRAWING NOT TO SCALE

6/2/09

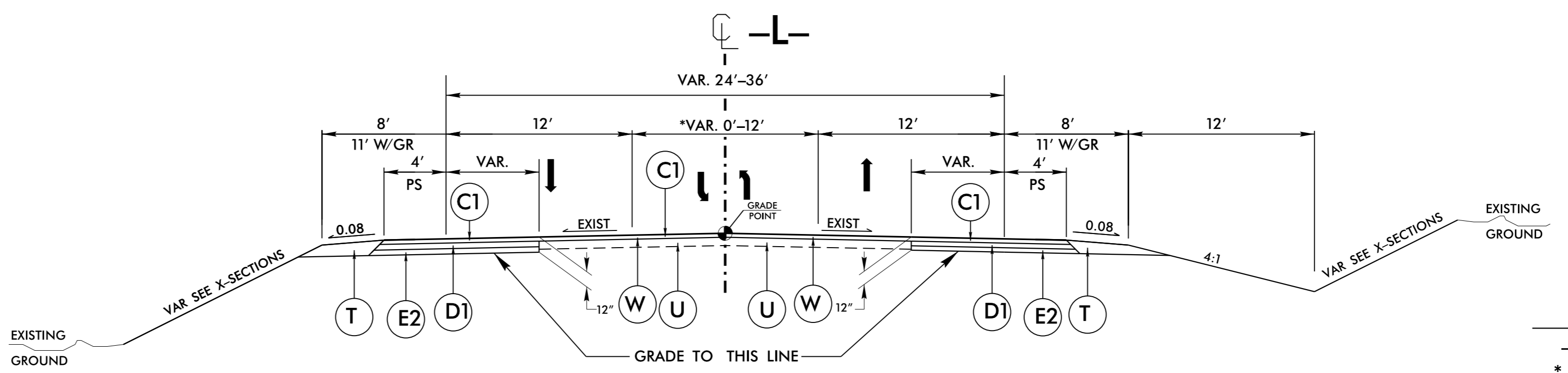
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6/2/09

PROJECT REFERENCE NO. B-5114	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER SEAL 014571 James A. Spier	PAVEMENT DESIGN ENGINEER SEAL 022896 Clark Morrison
4/6/2015	4/6/2015

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.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C4	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
D3	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D4	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D5	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
E4	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E5	PROP. APPROX. 8.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 484.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E6	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
J1	PROP. 8" AGGREGATE BASE COURSE
J2	PROP. VAR. DEPTH AGGREGATE BASE COURSE
R1	EXPRESSWAY GUTTER
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" DEPTH
V2	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" DEPTH TO 2 1/2" DEPTH
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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

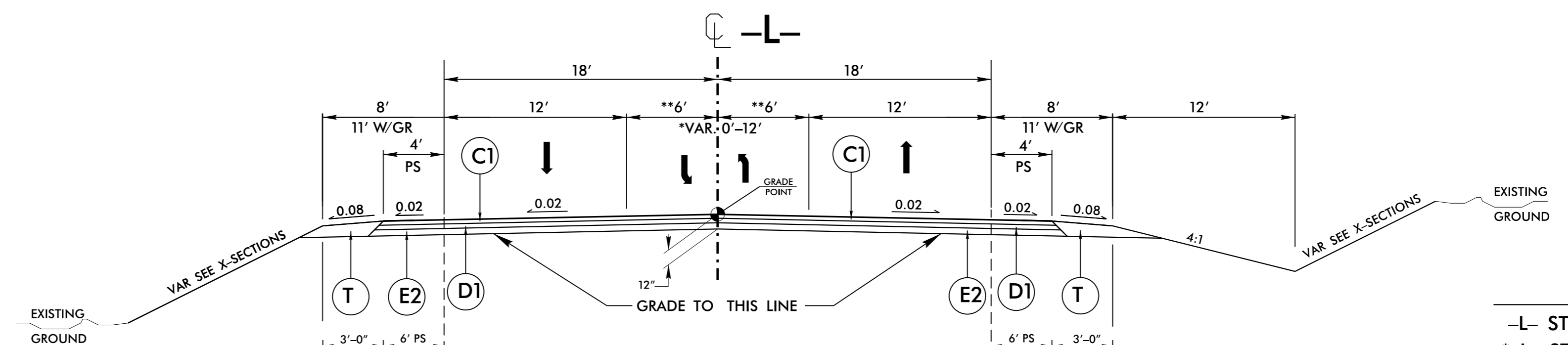


TYPICAL SECTION NO. 1

USE TYPICAL NO. 1
 -L- STA. 13+34.42 TO STA. 14+00.00
 *-L- STA. 25+80.00 TO STA. 27+22.00

OVERLAY EXISTING PAVEMENT WITH (C1)
 -L- STA. 27+22.00 TO STA. 28+20.00

NOTE: USE INCIDENTAL MILLING AT ALL TIE-INS FOR -L-, -Y1-, -RP1-, -RP2-, AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.

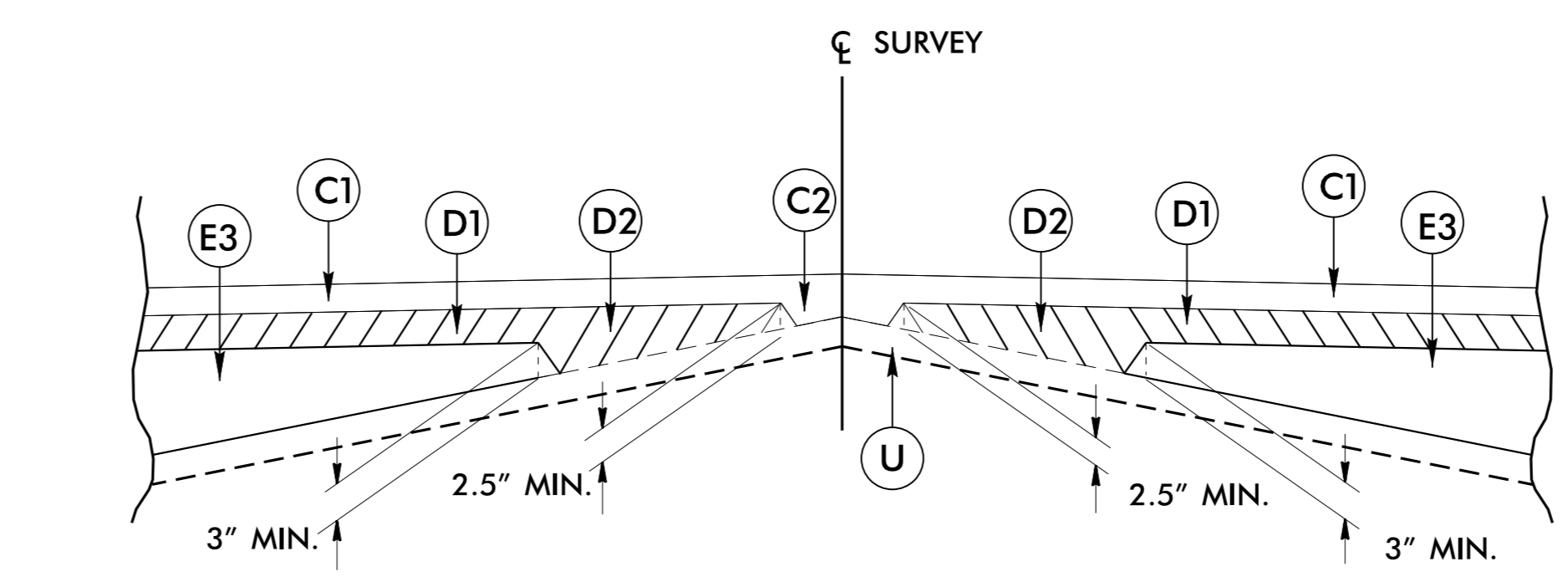


TYPICAL SECTION NO. 2

USE TYPICAL NO. 2
 -L- STA. 14+00.00 TO STA. 14+60.00
 *-L- STA. 14+60.00 TO STA. 17+00.00
 **-L- STA. 17+00.00 TO STA. 18+79.61 (BEGIN BRIDGE)
 ***-L- STA. 21+26.61 (END BRIDGE) TO STA. 25+80.00

INSTALL SHOULDER BERM GUTTER (SBG) AS FOLLOWS.
 -L- STA. 18+15.00 TO STA. 18+33.44 (BEGIN APPROACH SLAB) LT
 -L- STA. 18+53.00 TO STA. 18+78.52 (BEGIN APPROACH SLAB) RT
 -L- STA. 21+27.70 (END APPROACH SLAB) TO STA. 22+30.00 LT
 -L- STA. 21+72.78 (END APPROACH SLAB) TO STA. 22+30.00 RT

INSTALL EXPRESSWAY GUTTER (EXG) AS FOLLOWS.
 *-L- STA. 13+96.45 TO STA. 15+00.00 RT
 *TRANSITION FROM 2' PS TO 4' PS
 (-L- STA. 15+00.00 TO 15+50.00 RT)
 -L- STA. 15+50.00 TO STA. 17+85.76 RT

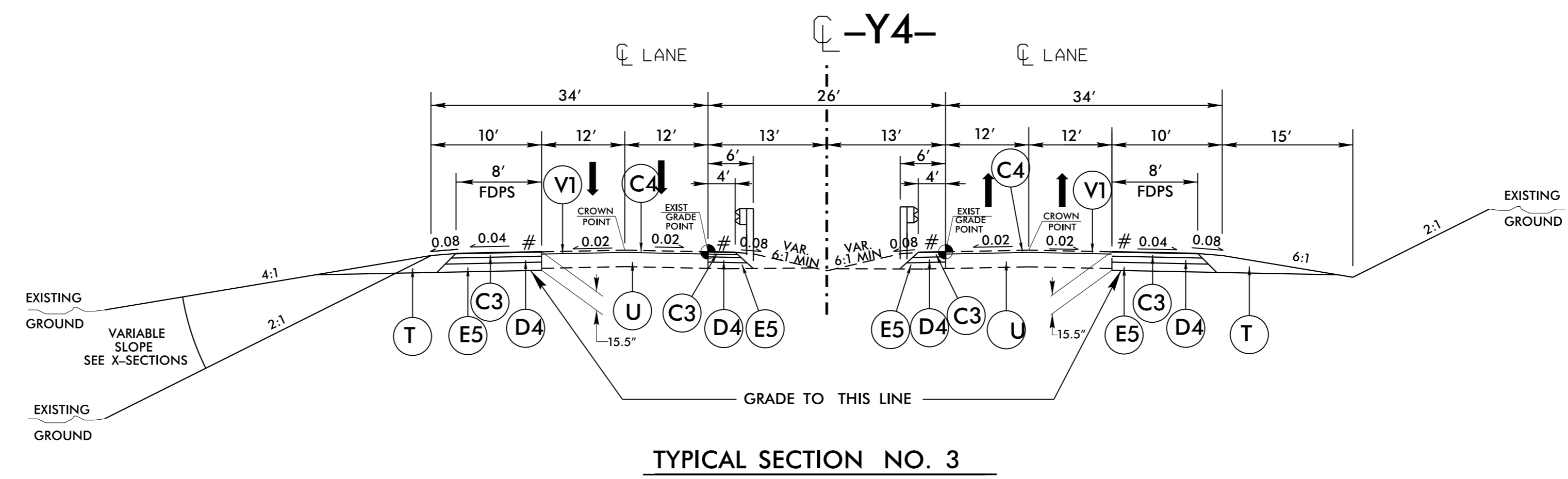


Detail Showing Method of Wedging

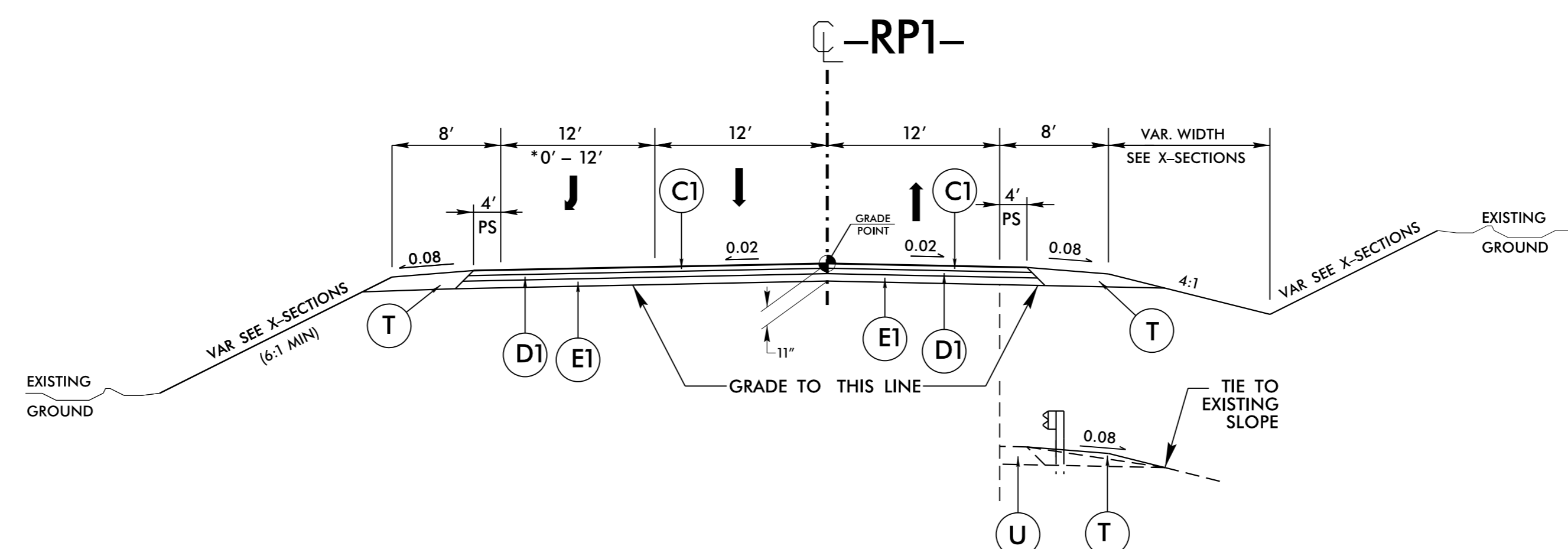
31-MAR-2015 08:48 05114_Rdy_tup.dgn

C1	3" S9.5B
C2	VARIABLE DEPTH S9.5B
C3	3" S9.5C
C4	1½" S9.5C
D1	4" I19.0B
D2	VARIABLE DEPTH I19.0B
D3	2.5" I19.0C
D4	4" I19.0C
D5	VARIABLE DEPTH I19.0C
E1	4" B25.0B
E2	5" B25.0B
E3	VARIABLE DEPTH B25.0B
E4	4" B25.0C
E5	8.5" B25.0C
E6	VARIABLE DEPTH B25.0C
R1	EXPRESSWAY GUTTER
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	MILL EXIST. PAVEMENT 1½"
V2	MILL EXIST. PAVEMENT 1½" TO 2½"
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL SHEET No. 2A-1)

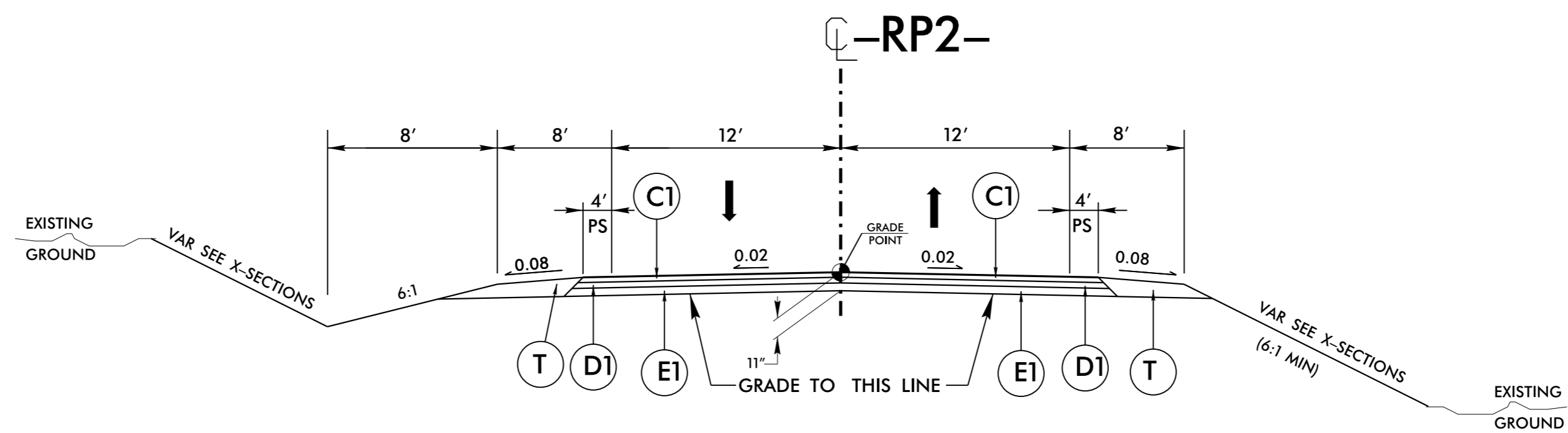
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 3



TYPICAL SECTION NO. 4



TYPICAL SECTION NO. 5

USE TYPICAL NO. 3

-Y4- STA. 12+80.00 TO -Y4- STA. 29+70.00

- 1) REMOVE EXIST. 8' PAVED SHOULDER AND REPLACE WITH 8' WIDE STRENGTHENED PAVED SHOULDER
 - 2) ADD 4' MEDIAN PAVED SHOULDERS
 - 3) SEE CROSS - SECTIONS FOR PROPOSED GRADING OF MEDIAN SLOPES
 - 4) MILL (V1) AND FILL (C4) THE EXISTING -Y4- LANES AFTER TRAFFIC SHIFTS AND MEDIAN CONSTRUCTION HAS BEEN COMPLETED. REFER TO TMP FOR GUIDANCE IN PHASING THE WORK.
- # MILLED RUMBLE STRIPS (SEE STD. 665.01)

USE TYPICAL NO. 4

-RP1- STA. 10+18.24 TO -RP1- STA. 11+46.00
RESURFACE AND WIDEN -RP1- AND -RPIEXT- STA 11+46.00 TO 12+25.00
*-RP1- STA. 11+46.00 TO STA. 12+25.00 LT

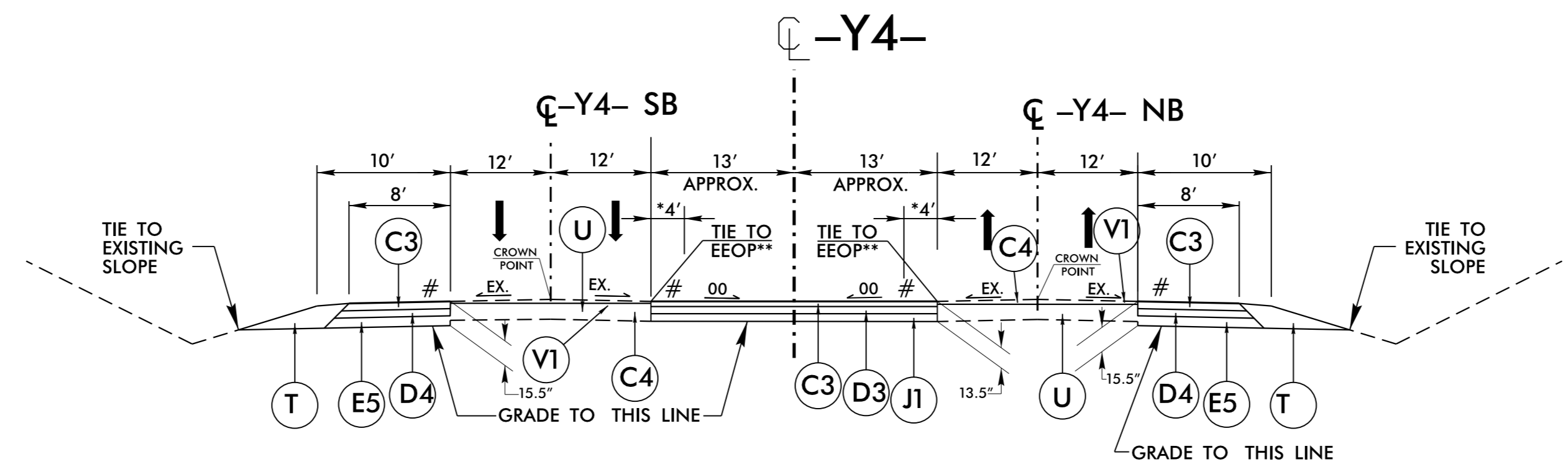
NOTE: INSTALL GUARDRAIL AND REPAIR EXISTING SHOULDER
-RPIEXT- STA. 14+00.00 TO STA. 17+14.54 (SEE CROSS - SECTIONS X-20 TO X-23)

USE TYPICAL NO. 5

-RP2- STA. 10+18.00 TO -RP2- STA. 12+05.00

C1	3" S9.5B
C2	VARIABLE DEPTH S9.5B
C3	3" S9.5C
C4	1 1/2" S9.5C
D1	4" I19.0B
D2	VARIABLE DEPTH I19.0B
D3	2.5" I19.0C
D4	4" I19.0C
D5	VARIABLE DEPTH I19.0C
E1	4" B25.0B
E2	5" B25.0B
E3	VARIABLE DEPTH B25.0B
E4	4" B25.0C
E5	8.5" B25.0C
E6	VARIABLE DEPTH B25.0C
J1	PROP. 8" ABC
J2	PROP. VAR. DEPTH ABC
R1	EXPRESSWAY GUTTER
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	MILL EXIST. PAVEMENT 1 1/2"
V2	MILL EXIST. PAVEMENT 1 1/2" TO 2 1/2"
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL SHEET No. 2)

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



TYPICAL SECTION NO. 6
SEE PLAN SHEETS 6 AND 7

**E.E.O.P. DENOTES EXIST. EDGE OF PAVEMENT

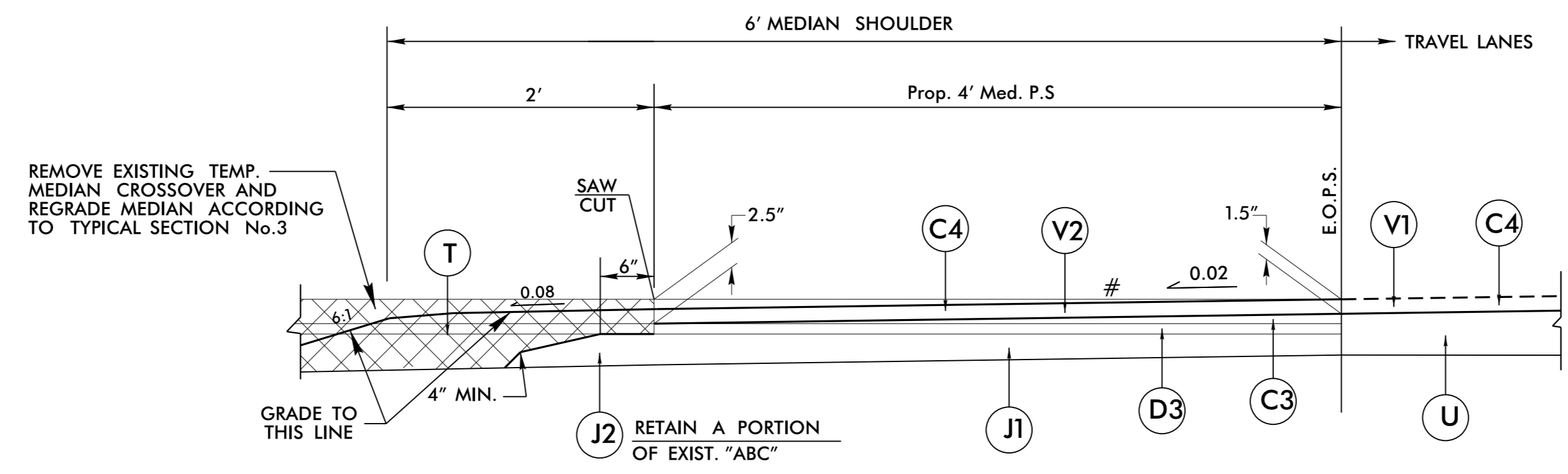
USE TYPICAL NO. 6

-Y4- STA. 8+50.00 TO -Y4- STA. 12+80.00 (FOR MEDIAN CROSSOVER)
-Y4- STA. 29+70.00 TO -Y4- STA. 34+00.00 (FOR MEDIAN CROSSOVER)
(STRENGTHEN OUTSIDE PAVED SHOULDERS FOR TRAFFIC SHIFT)

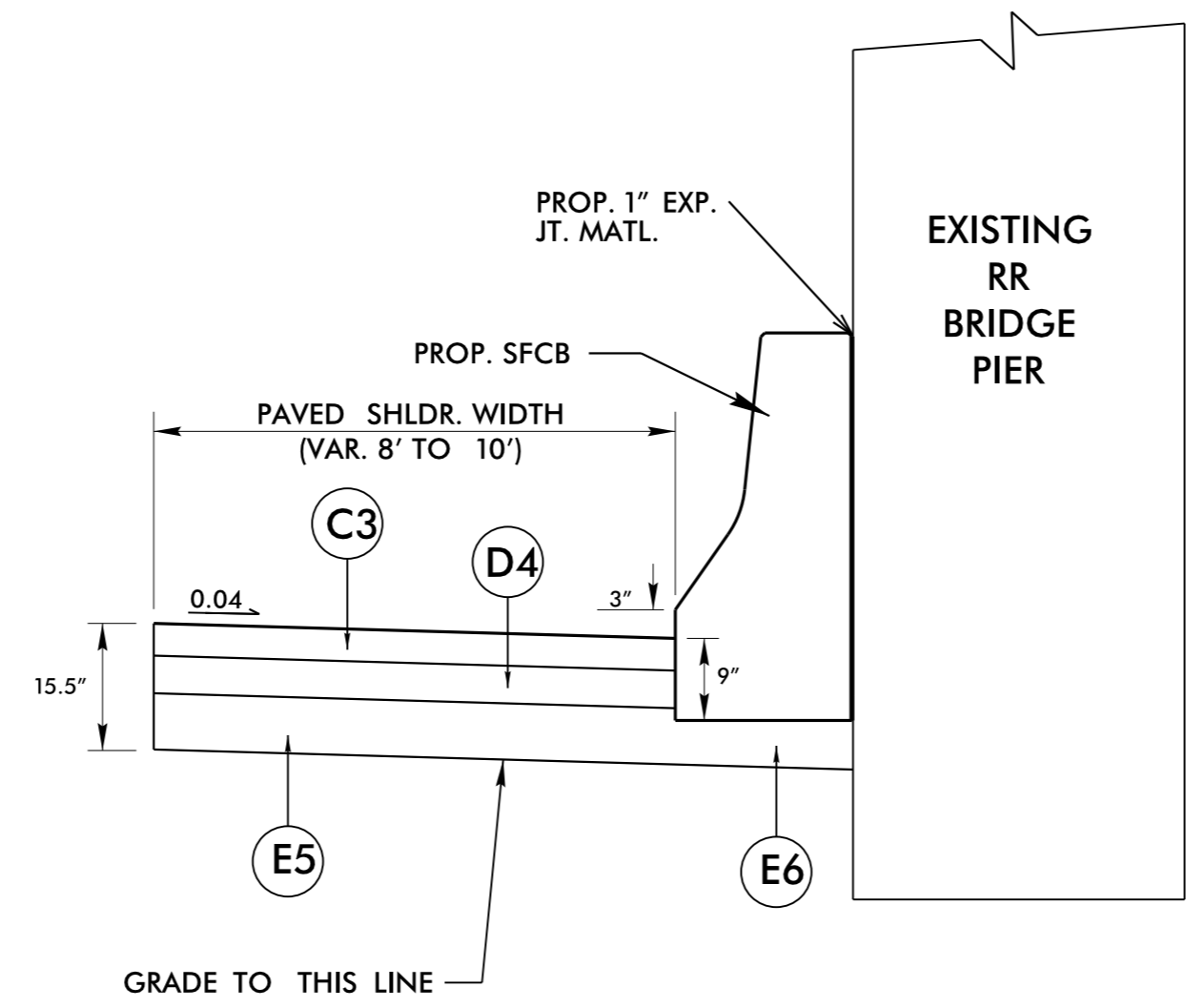
* IN LOCATIONS OF TEMP MEDIAN CROSSOVERS, RETAIN 4' WIDE PAVEMENT ADJACENT TO TRAVEL LANES. RETROFIT PAVED SHOULDER BY USING (V2) AND (C4) AND REGRADE MEDIAN SLOPES TO DRAIN, SEE TYPICAL SECTION 3 AND DETAIL ON THIS SHEET FOR GUIDANCE.

MILL (V1) AND FILL (C4) ON THE EXISTING -Y4- LANES AFTER THE NEED FOR WORK ZONE TRAFFIC SHIFTS AND MEDIAN CONSTRUCTION HAS BEEN COMPLETED. REFER TO TMP FOR GUIDANCE IN PHASING THE WORK.

MILLED RUMBLE STRIPS (SEE STD. 665.01) TO BE ADDED TO PAVED SHOULDERS AFTER THE NEED FOR WORK ZONE TRAFFIC SHIFTS AND MEDIAN CONSTRUCTION HAS BEEN COMPLETED. REFER TO TMP FOR GUIDANCE IN PHASING THE WORK.



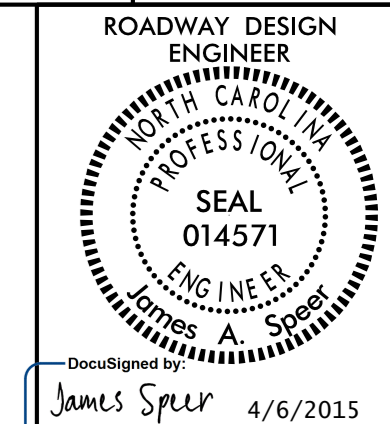
DETAIL OF RETROFITTING TEMP. MEDIAN CROSSOVER PAVEMENT TO FINAL MEDIAN SHOULDERS



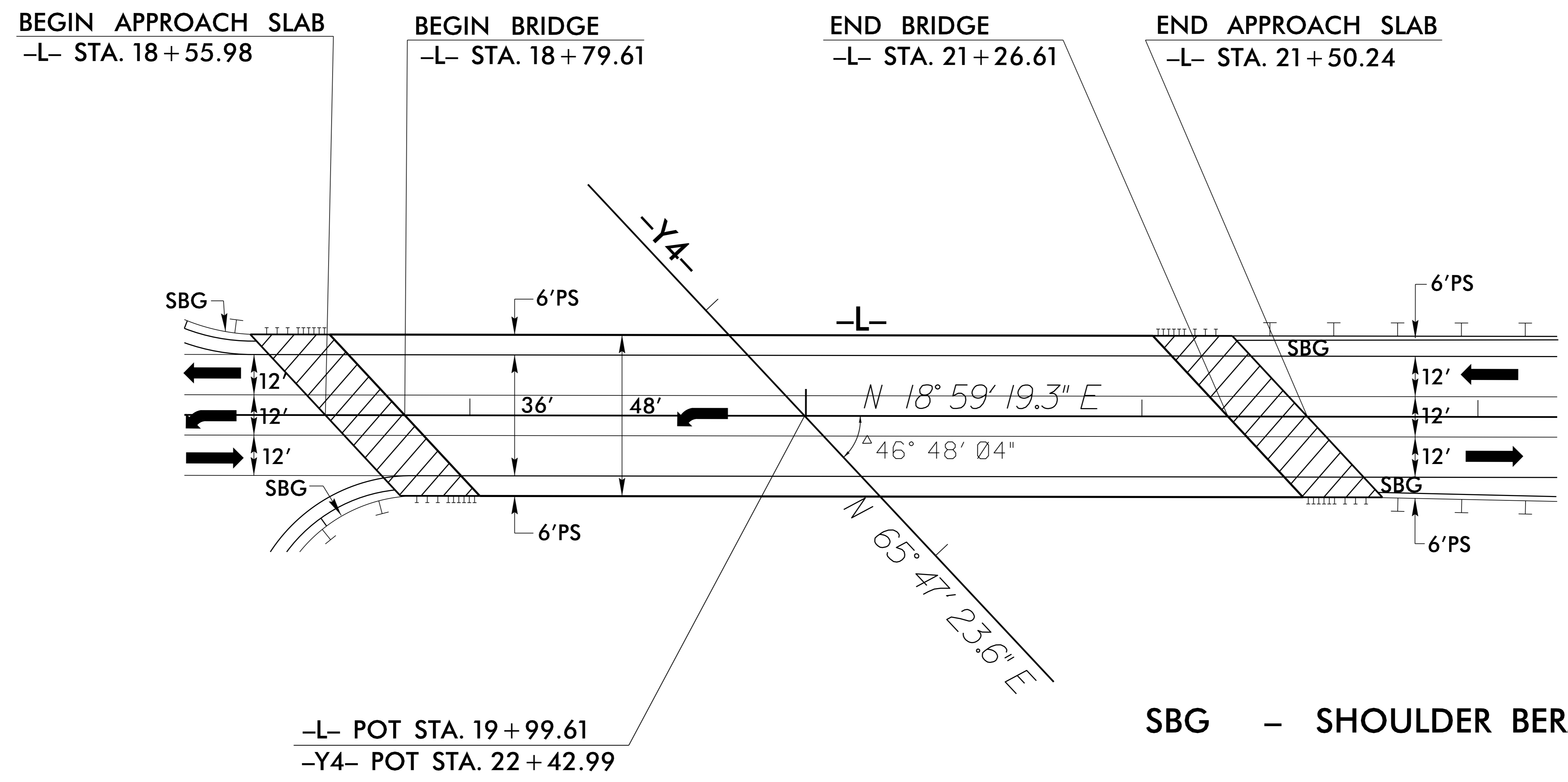
DETAIL OF PAVED SHOULDER AND SINGLE FACED CONCRETE BARRIER AT RR. BRIDGE PIERS ALONG -Y4-

6/2/09

02_APR-2015 12:00 05114_Rdy_tup.dgn
14:30:58 PERMANENT

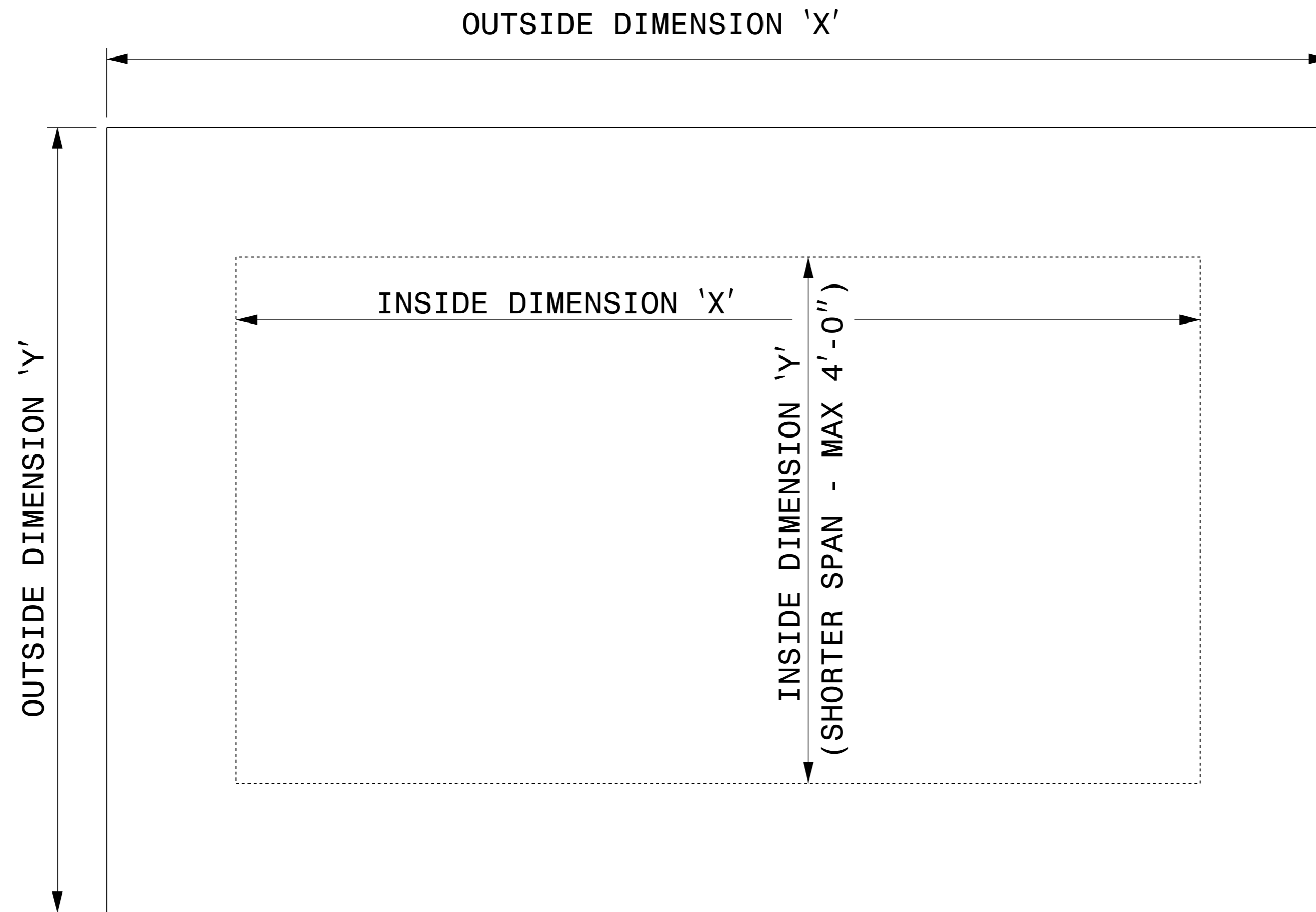


DETAIL SHOWING BRIDGE IN RELATION TO PAVEMENT



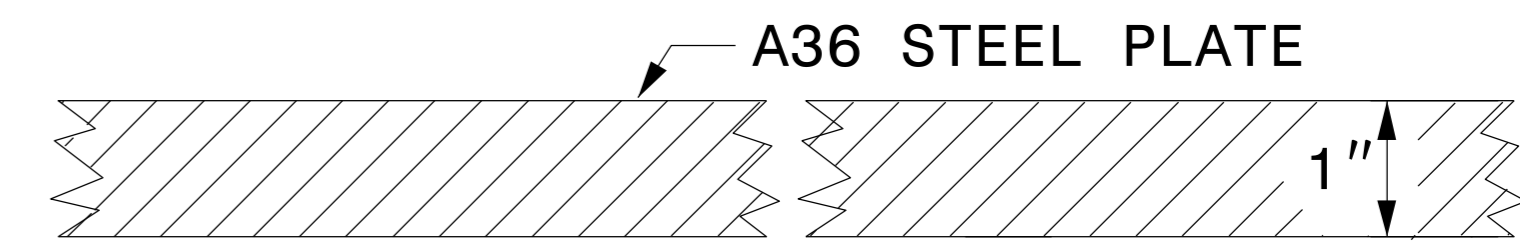
6/2/99

31-MAR-2015 09:53 05114_Rdy-tp.dgn
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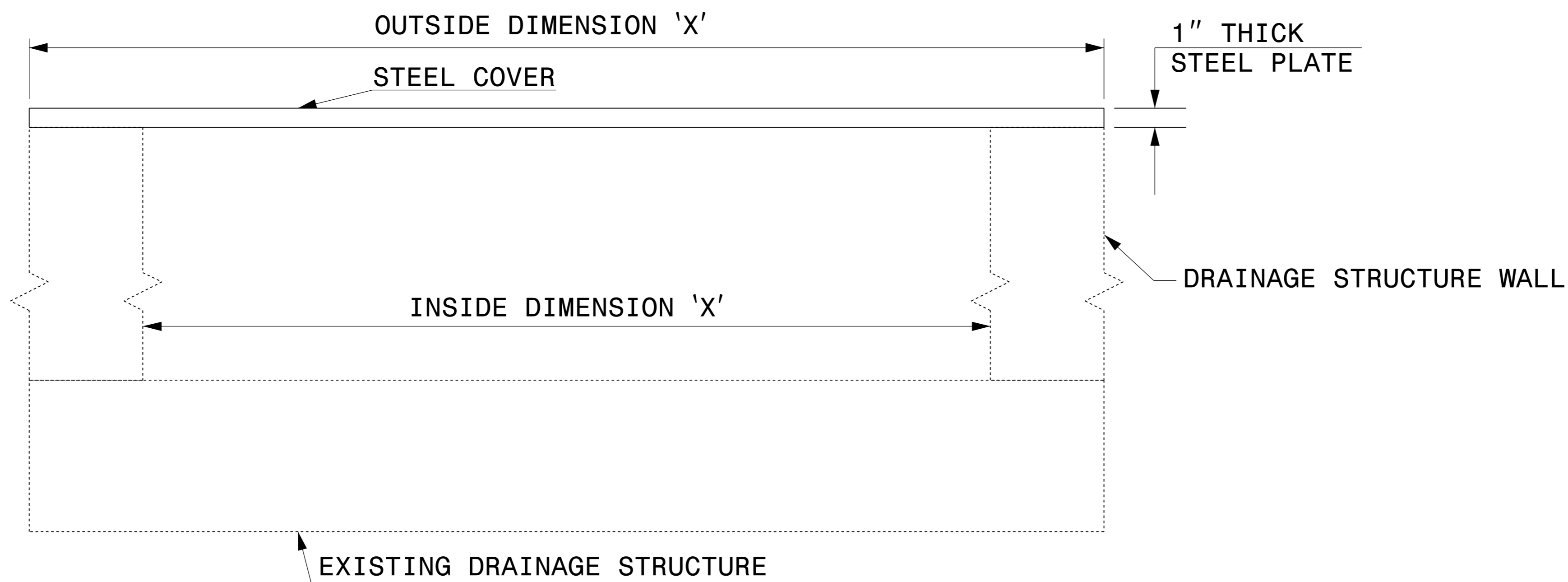
GENERAL NOTES:

- USE GRADE A36 STEEL
- STEEL COVERS ARE FOR TEMPORARY USE DURING PHASE CONSTRUCTION.
- FILL SHALL BE PLACED DIRECTLY OVER THE STEEL PLATES.
- SEE ROADWAY PLANS AND PROVISIONS FOR LOCATIONS
- QUANTITIES TO BE PAID FOR AT THE UNIT PRICE BID PER EACH.



SECTION VIEW OF STEEL TOP PLATE

PLAN VIEWS



ELEVATION VIEWS



DocuSigned by:
Joel Howerton
4/13/2015

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
DETAIL OF TEMPORARY 1" STEEL COVER OVER DRAINAGE STRUCTURE	
ORIGINAL BY: E.E. WARD	DATE: 2-2-98
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: eric:/usr/details/metric/stand/st1cvr2.dgn	

\$\$\$\$\$CUTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

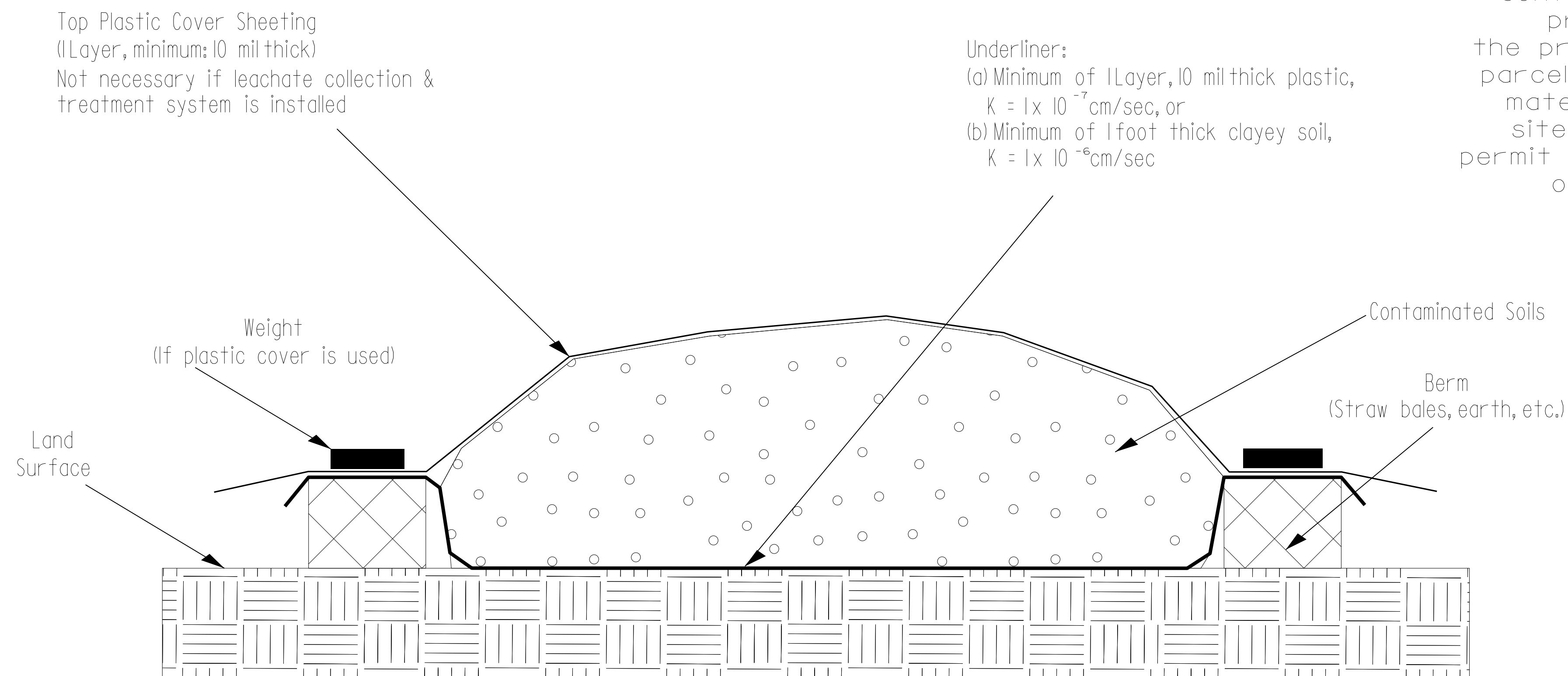


DocuSigned by:
Cyrus Parker 3/12/2015
C06482AF5E824DF

SIGNATURE DATE SIGNATURE DATE

Detail for Temporary Containment of Contaminated Soil

Cross-Section View

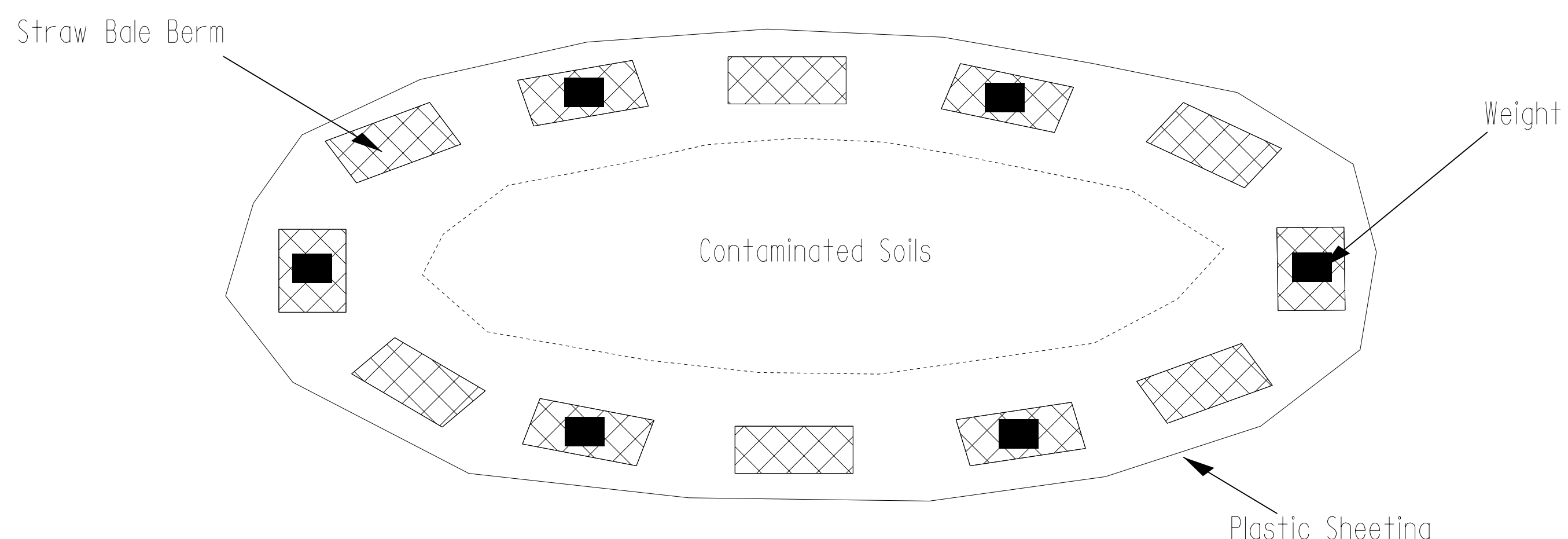


Top Plastic Cover Sheeting
(1 Layer, minimum: 10 mil thick)
Not necessary if leachate collection & treatment system is installed

Underliner:
(a) Minimum of 1 Layer, 10 mil thick plastic,
 $K = 1 \times 10^{-7}$ cm/sec, or
(b) Minimum of 1 foot thick clayey soil,
 $K = 1 \times 10^{-6}$ cm/sec

NOTE:
The Contractor shall stockpile all contaminated soil excavated from a property in a location within the property boundaries of the source parcel. If the volume of contaminated material exceeds available space on site, the Contractor shall obtain a permit from the NCDENR UST Section for off-site temporary storage.

Map View



GEOTECHNICAL ENGINEERING UNIT

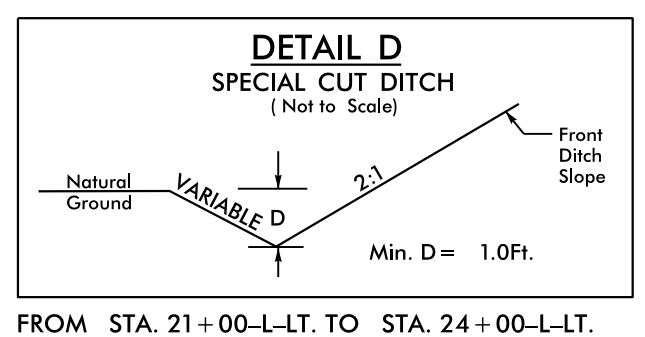
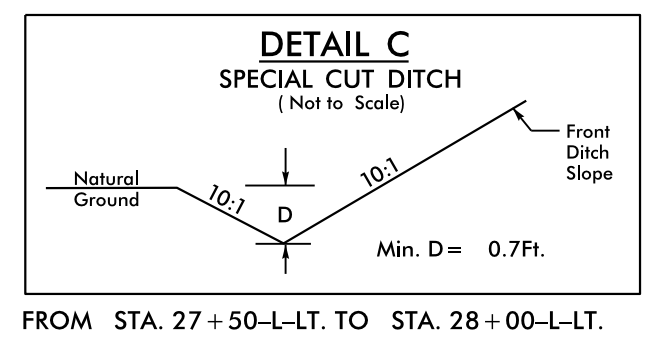
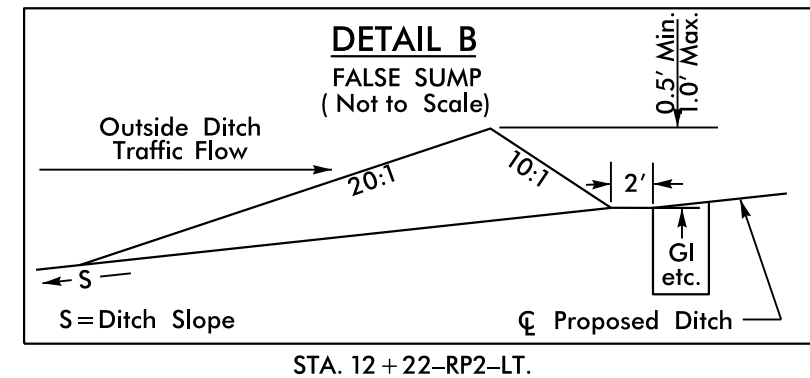
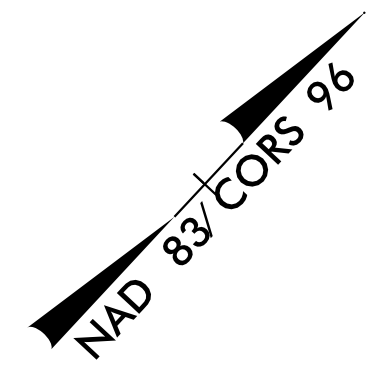
EASTERN REGIONAL OFFICE
 WESTERN REGIONAL OFFICE
 CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STOCKPILE CONTAINMENT DETAIL

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

PREPARED BY:	DATE:
REVIEWED BY:	DATE:



SEE SHEETS 8 & 9 FOR PROFILES

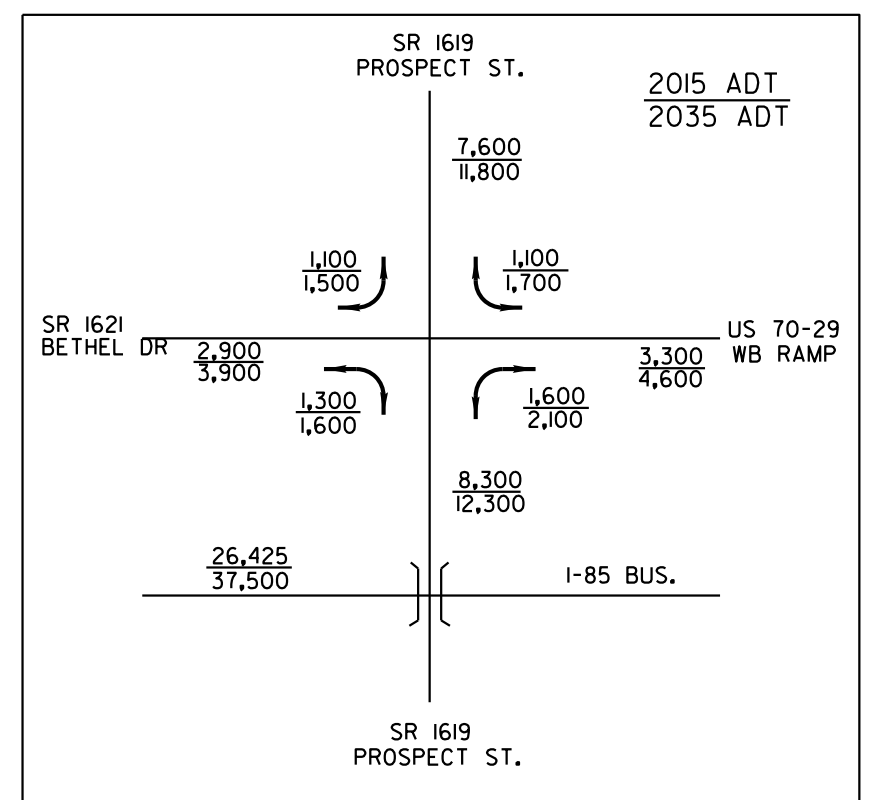
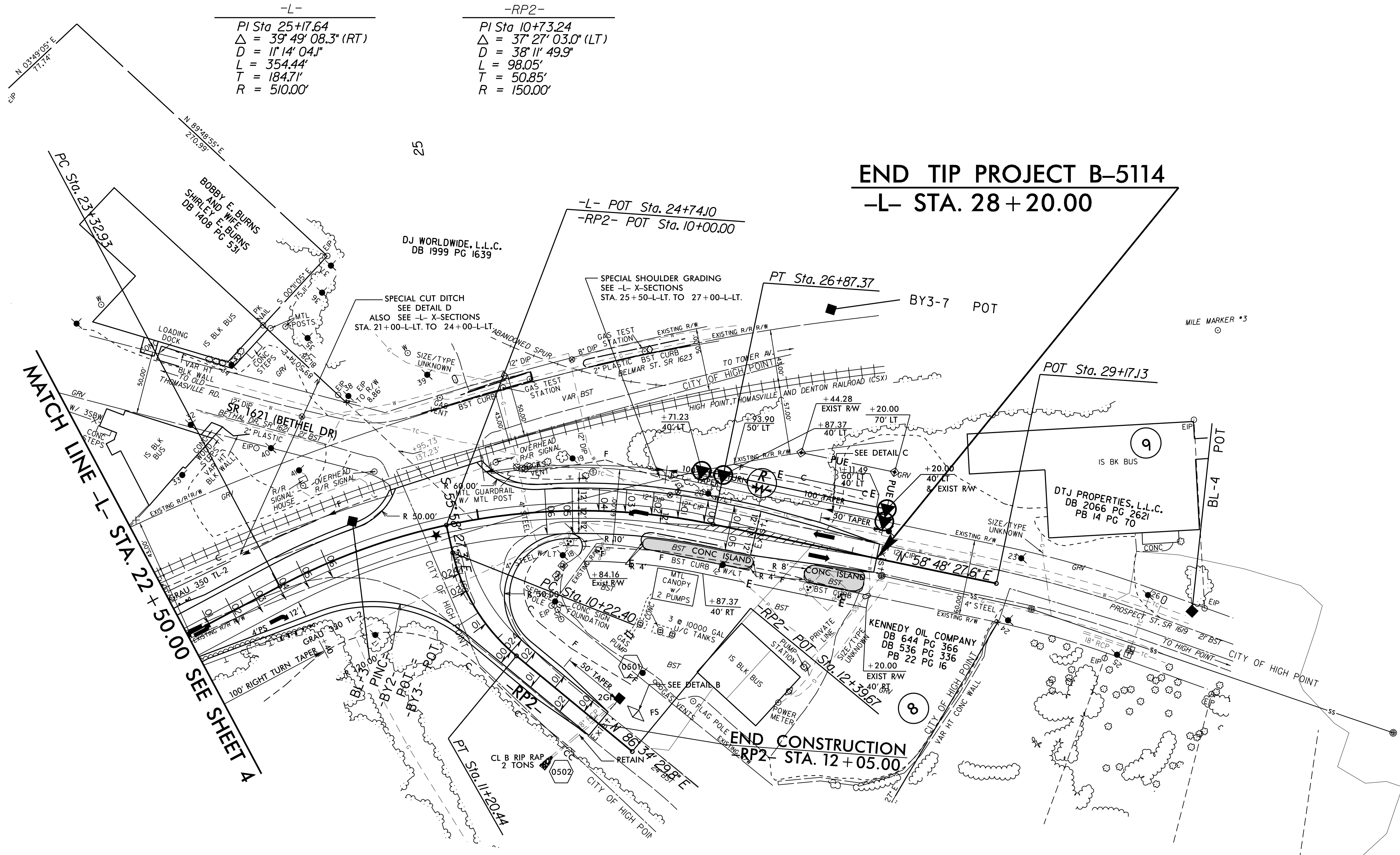
-L-

PI Sta 25+17.64
 $\Delta = 39^\circ 49' 08.3''$ (RT)
 $D = 11' 14.04''$
 $L = 354.44'$
 $T = 184.71'$
 $R = 510.00'$

-RP2-

PI Sta 10+73.24
 $\Delta = 37^\circ 27' 03.0''$ (LT)
 $D = 38' 11' 49.9''$
 $L = 98.05'$
 $T = 50.85'$
 $R = 150.00'$

END TIP PROJECT B-5114
-L- STA. 28+20.00



- ★ - DENOTES PROPOSED TRAFFIC SIGNAL
- - DENOTES PROPOSED 5" MONOL. CONC. ISLAND (SURFACE MOUNTED)

REVISIONS

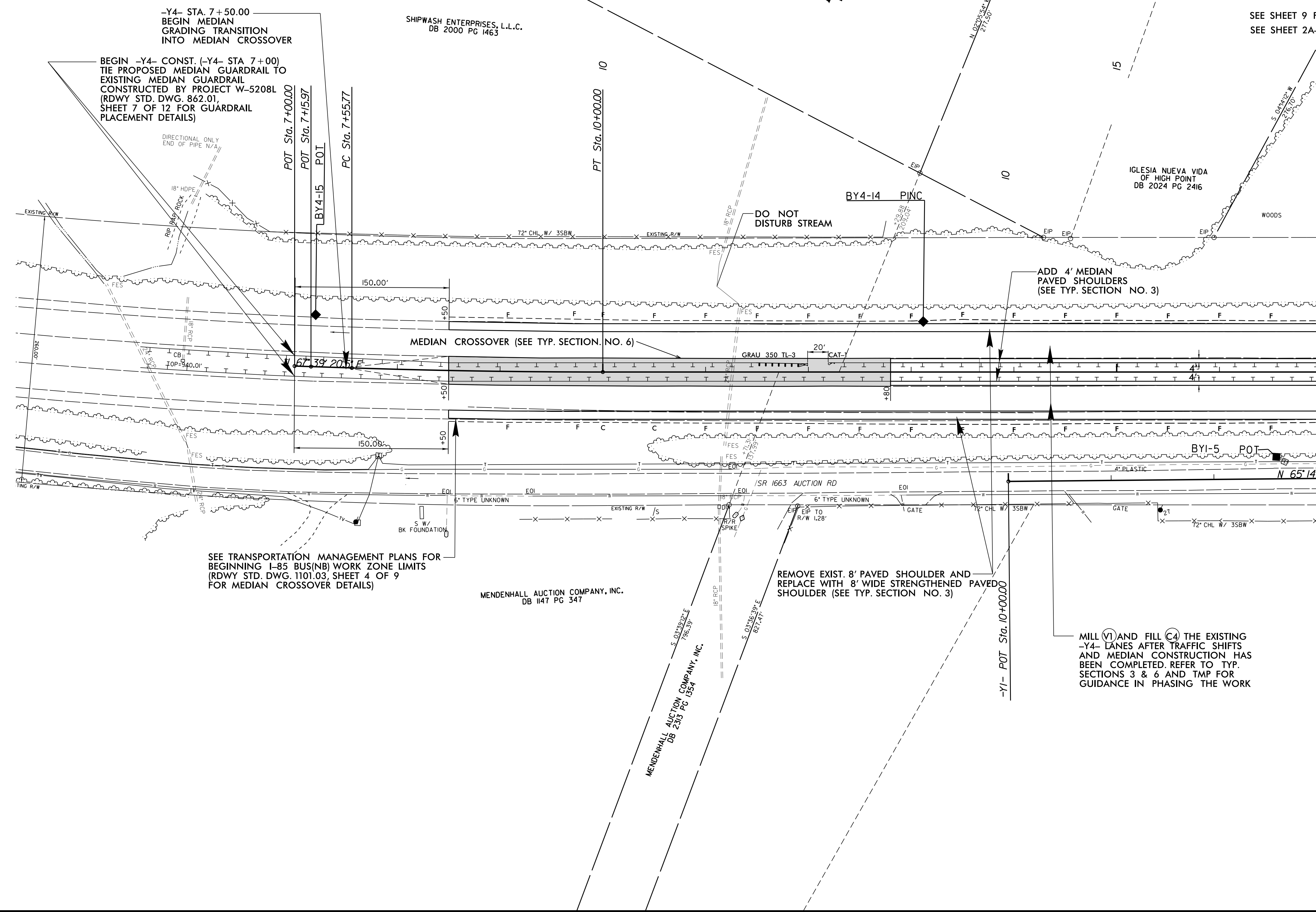
8/17/99

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-Y4-
 PI Sta 8+77.89
 $\Delta = 1' 51'' 56.9''$ (LT)
 $D = 0' 45'' 50.2''$
 $L = 244.23'$
 $T = 122.13'$
 $R = 7,500.00'$

NAD 83 CORRS 96

SEE SHEET 9 FOR PROFILE
 SEE SHEET 2A-3 FOR MEDIAN CROSSOVER DETAIL



MATCH LINE -Y4- 17+00.00 SEE SHEET 4

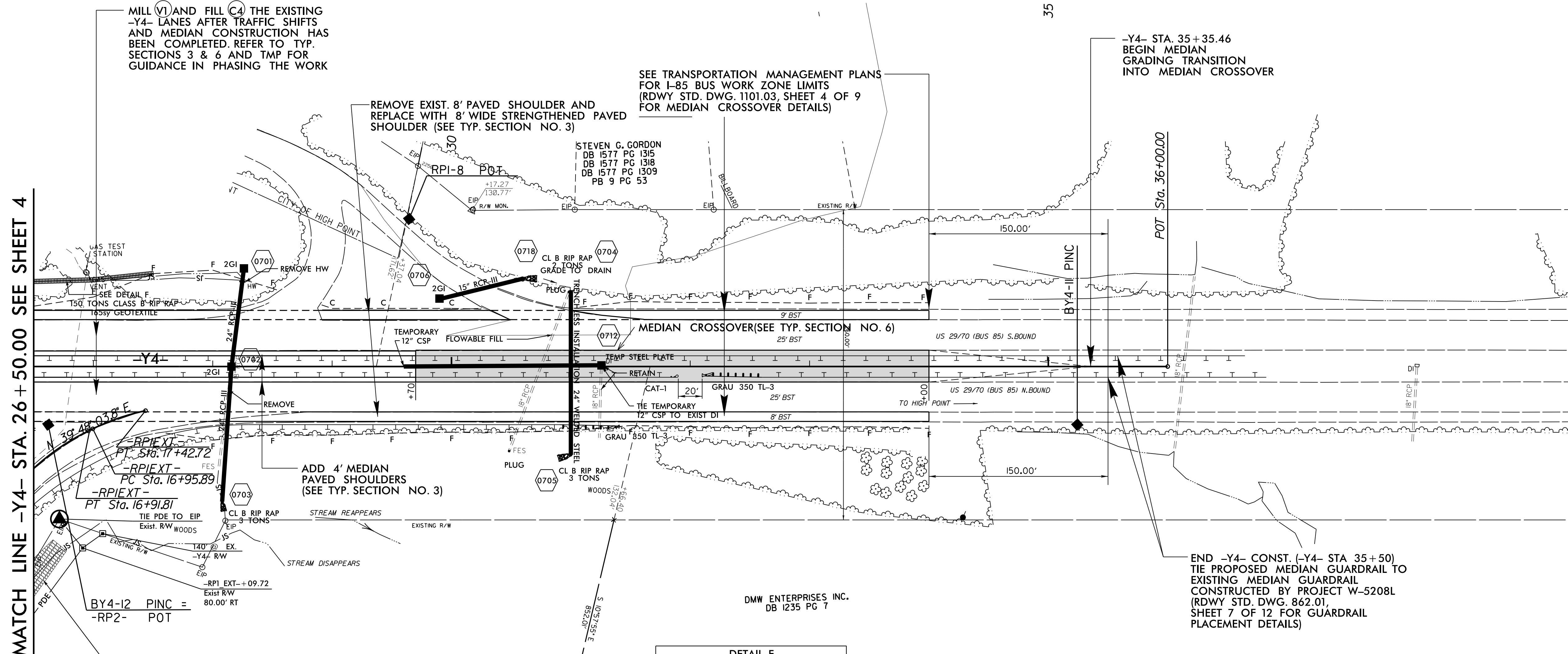
REVISIONS

8/17/99

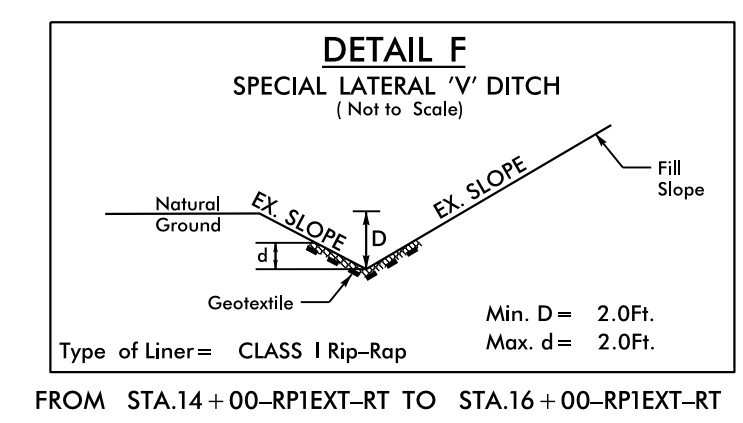
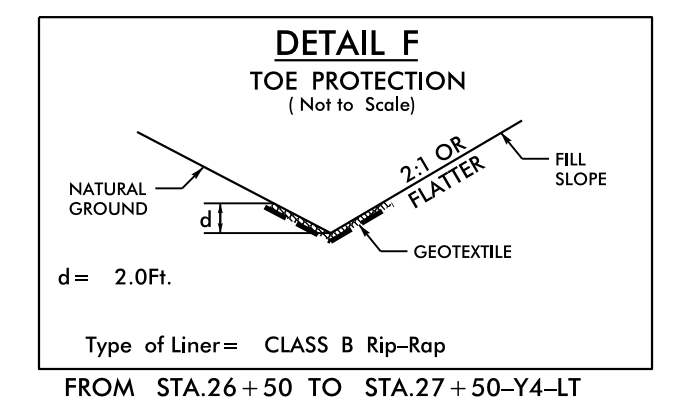
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 3:58:50 PM 4/13/2015

SEE SHEET 9 FOR PROFILE
SEE SHEET 2A-3 FOR MEDIAN CROSSOVER DETAIL

NAD 83 COR 96



MATCH LINE -Y4- STA. 26 + 50.00 SEE SHEET 4



10

RONALD W. MCKAGUE AND WIFE
JUDITH R. MCKAGUE
DB 2040 PG 2255

REVISIONS

8/17/99

P:\APR-2015 10:00 AM\B5114-Rdwy-bsh7.dgn
3:54:50 PM 4/14/2015

5/28/99

PROJECT REFERENCE NO. B-5114	SHEET NO. 8
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 014571 James A. Spurr 4/14/2015	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 019775 Ray D. Lovingsood 4/13/2015

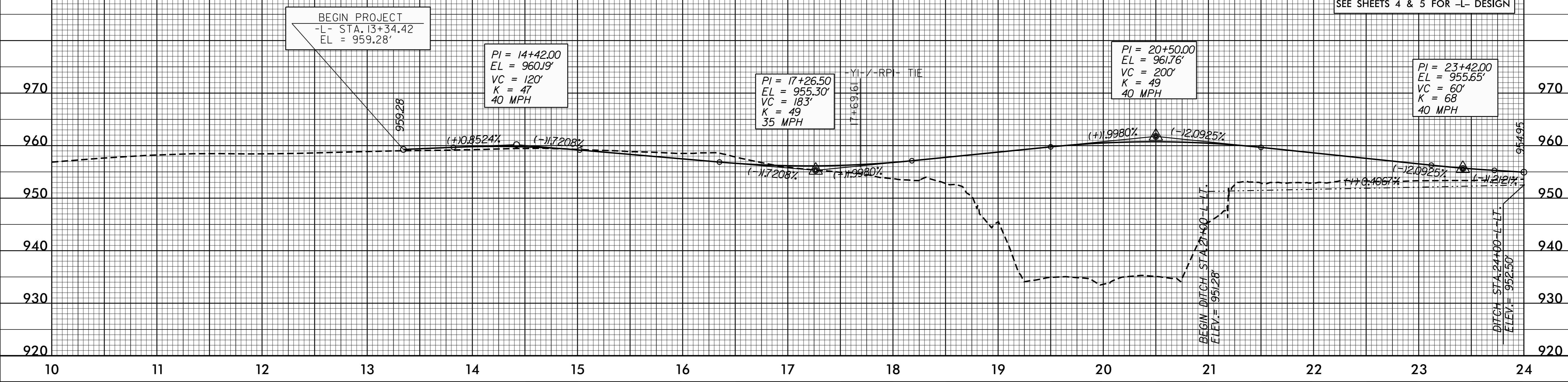
BM#1CHISLED SQUARE IN NORTH EAST CORNER OF NORTH EAST WING WALL OF HIGH POINT, THOMASVILLE AND DENTON RAILROAD BRIDGE OVER US 290 (BUS I-85) N 789930 E 1694932 ELVE. 953.65'

DITCH LEGEND

RIGHT DITCH	-----
LEFT DITCH	-----

-L-

SEE SHEETS 4 & 5 FOR -L- DESIGN

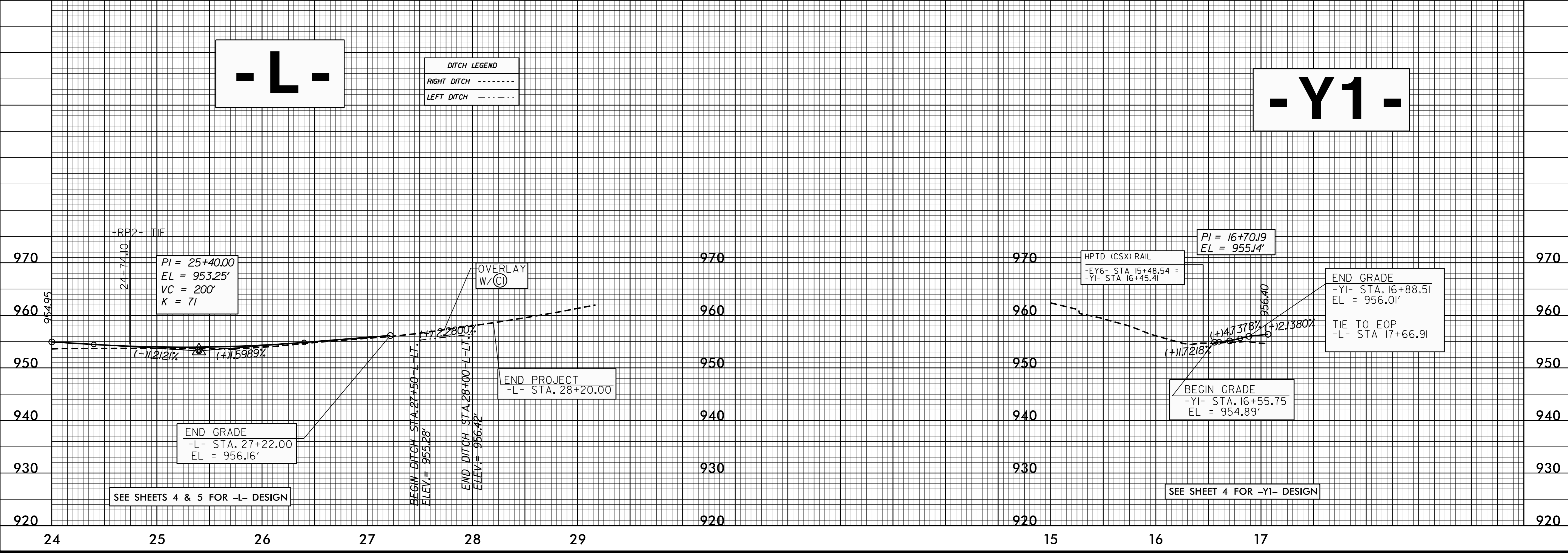


-L-

DITCH LEGEND

RIGHT DITCH	-----
LEFT DITCH	-----

-Y1-



SEE SHEETS 4 & 5 FOR -L- DESIGN

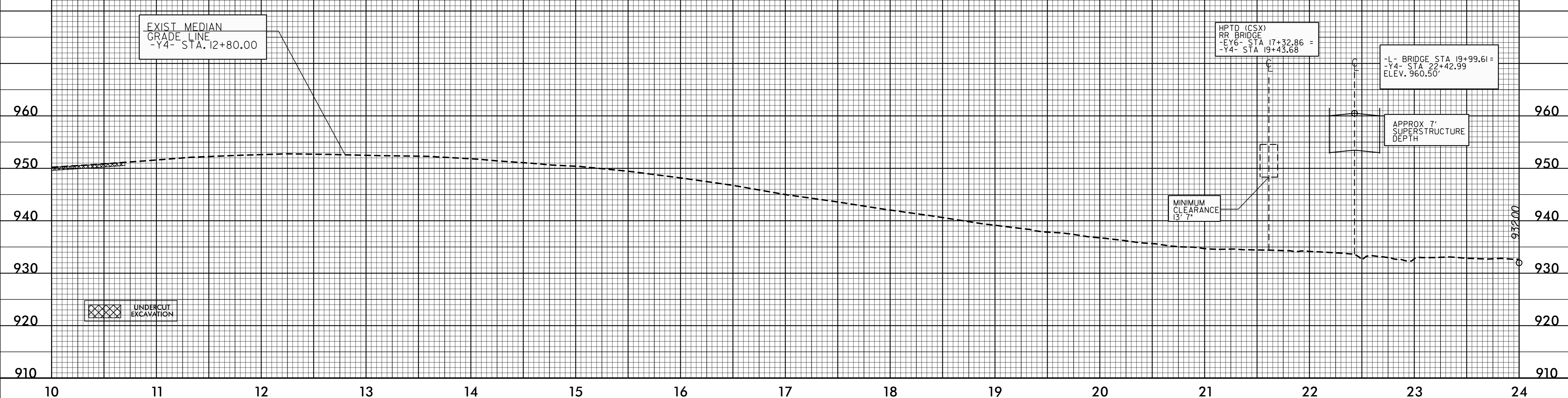
SEE SHEET 4 FOR -Y1- DESIGN

13-APR-2015 10:00
B:\114_Rdy-pl.dgn
JAS:JAS:RDM:JAS

5/28/99

PROJECT REFERENCE NO. B-5114	SHEET NO. 9
ROADWAY DESIGN ENGINEER JAMES S. SPUR SEAL 014571 4/14/2015	HYDRAULICS ENGINEER ROY D. LOVINGS SEAL 019775 4/14/2015

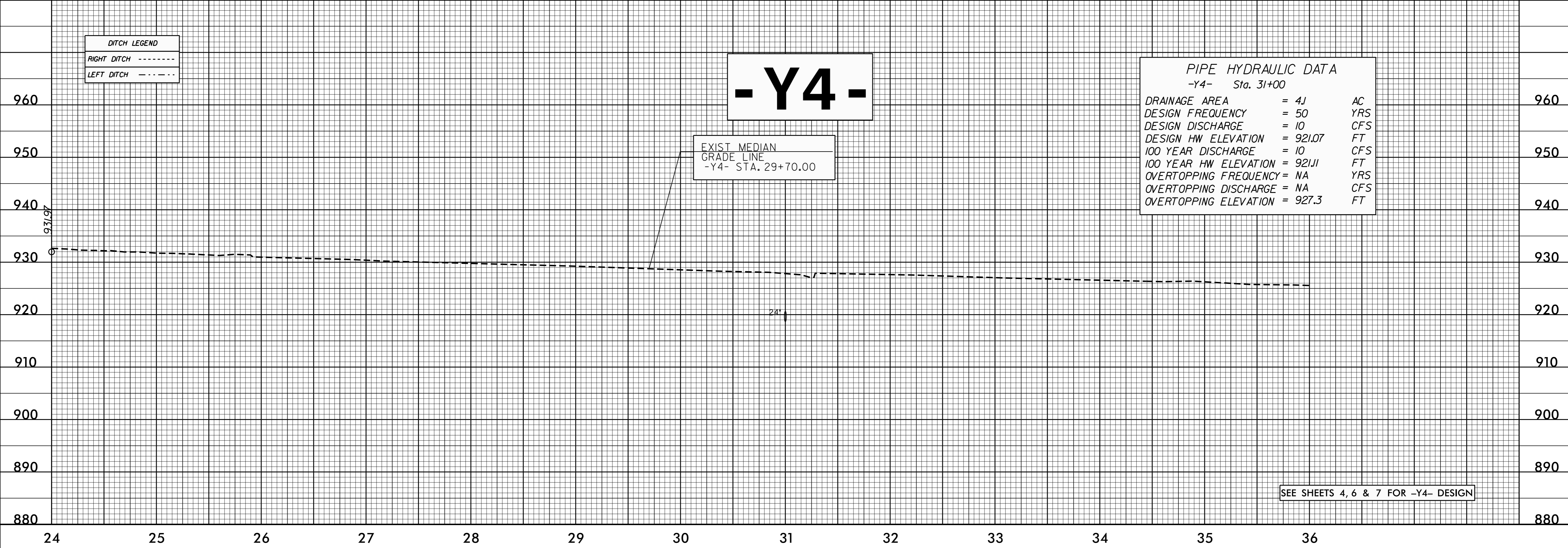
-Y4-



UNDERCUT EXCAVATION

DITCH LEGEND
 RIGHT DITCH - - - - -
 LEFT DITCH - - - - -

-Y4-



EXIST. MEDIAN GRADE LINE
 -Y4- STA. 29+70.00

PIPE HYDRAULIC DATA		
-Y4- Sta. 31+00		
DRAINAGE AREA	= 4J	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 10	CFS
DESIGN HW ELEVATION	= 921.07	FT
100 YEAR DISCHARGE	= 10	CFS
100 YEAR HW ELEVATION	= 921.11	FT
OVERTOPPING FREQUENCY	= NA	YRS
OVERTOPPING DISCHARGE	= NA	CFS
OVERTOPPING ELEVATION	= 927.3	FT

SEE SHEETS 4, 6 & 7 FOR -Y4- DESIGN

13-APR-2015 10:00
 B:\5114_Rdy-pl.dgn
 444075871.dwg

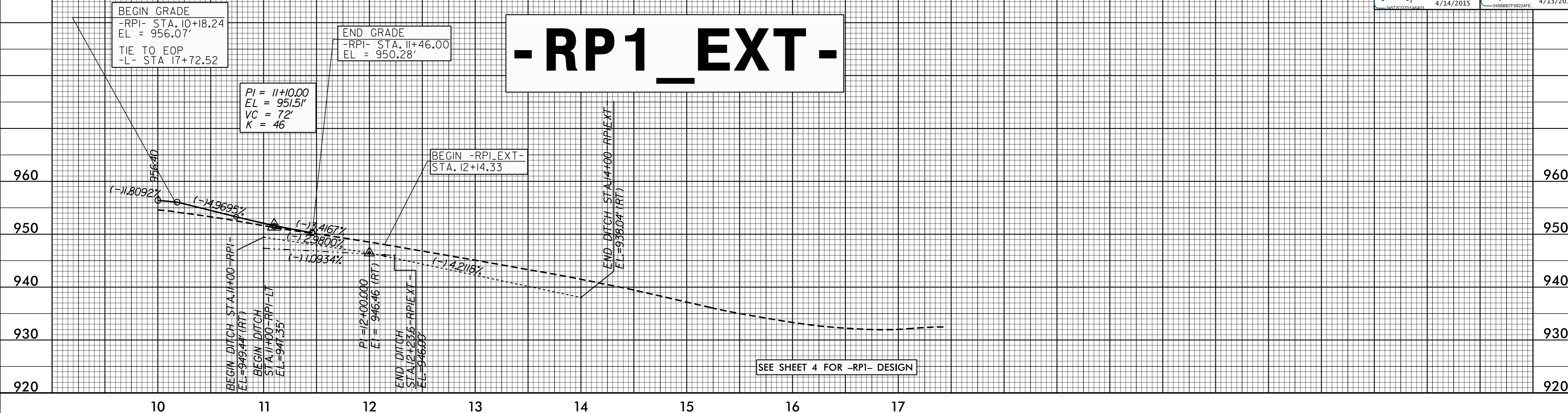
5/28/99

PROJECT REFERENCE NO. B-5114	SHEET NO. 10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

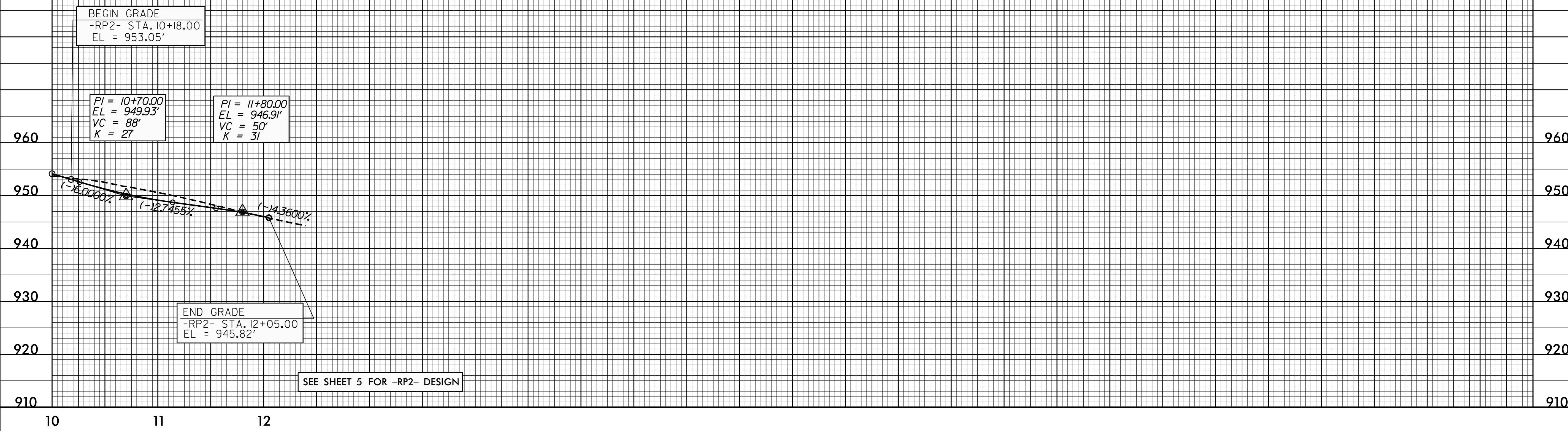
- RP1 -

DITCH LEGEND
 RIGHT DITCH - - - - -
 LEFT DITCH - - - - -

- RP1_EXT -



- RP2 -



13-APR-2015 09:59 05114_Rdy.plt.dgn