

**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

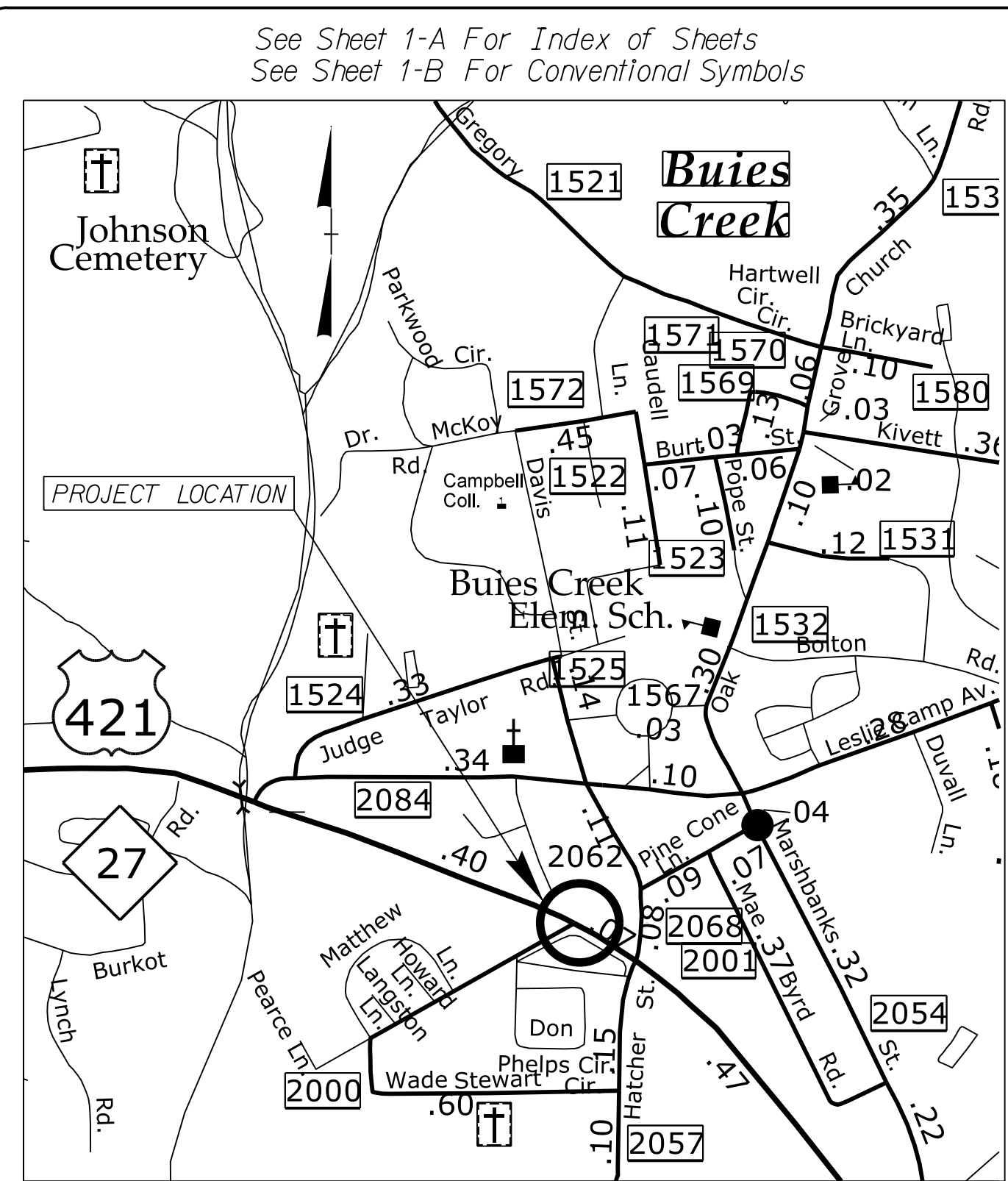
**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

09/08/15

TIP PROJECT: W-5206AG

CONTRACT: C203647



VICINITY MAP (NOT TO SCALE)

SEE SHEET TMP-2 FOR TEMPORARY OFFSITE DETOUR

NOTE: OVERLAY EXISTING PAVEMENT THROUGHOUT THE LIMITS OF PERMANENT MARKINGS SHOWN ON PMP PLAN. (-L- STA. 16+40---SEE PMP-03)

**BEGIN TIP PROJECT W-5206AG
POT STA. -L- 23+12.00**

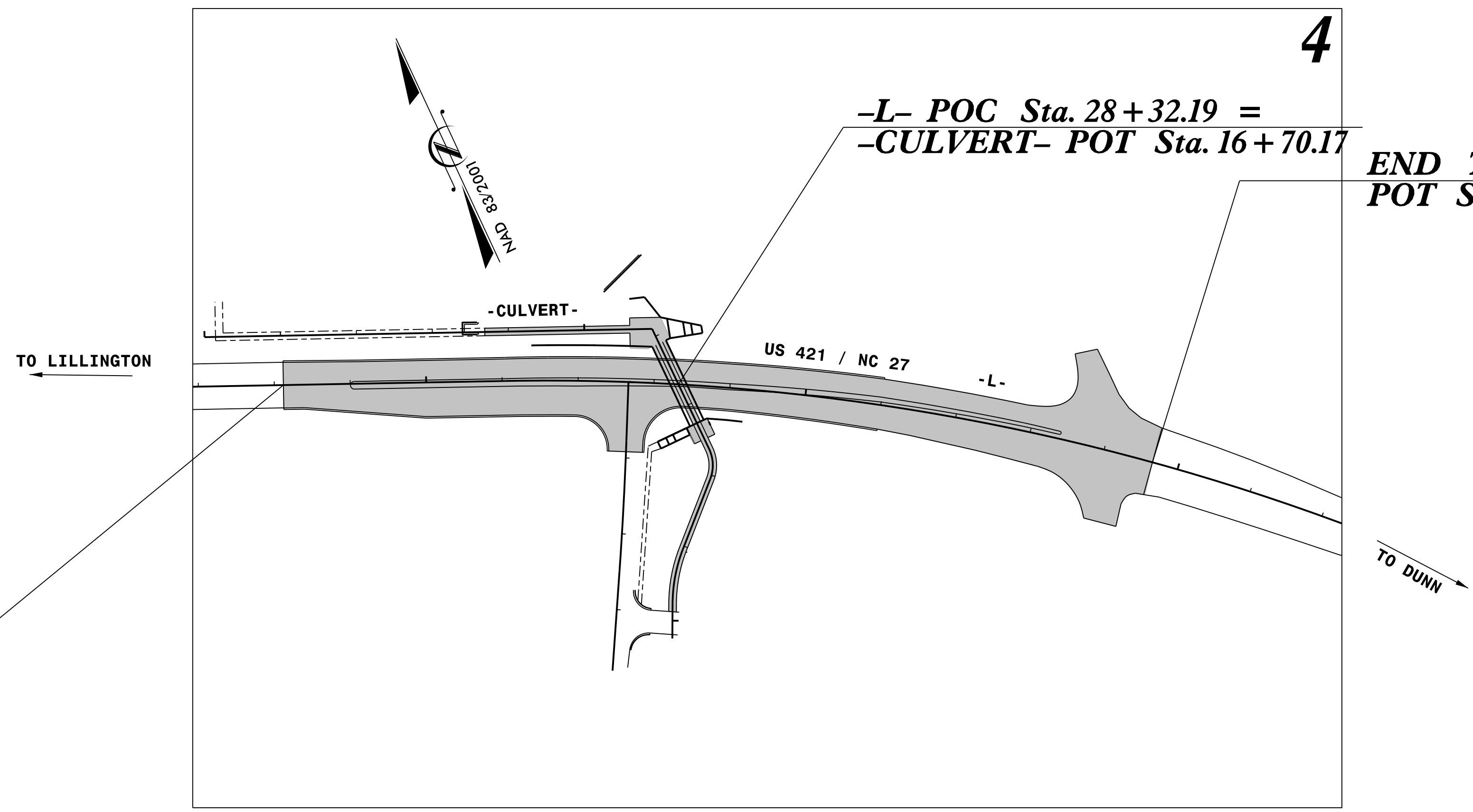
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HARNETT COUNTY

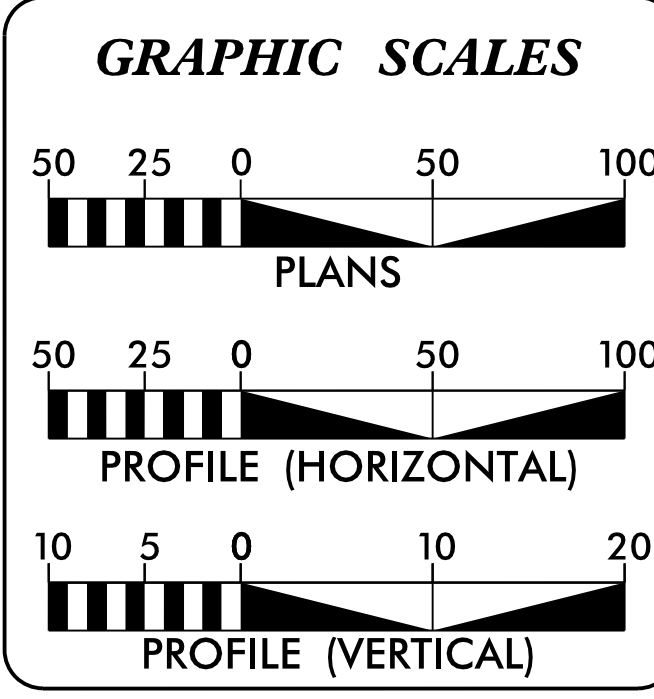
**LOCATION: CAMPBELL UNIVERSITY PEDESTRIAN TUNNEL
UNDER US 421/NC 27 IN BUIES CREEK**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING,
RETAINING WALLS, AND CULVERT.**

NOTE: OVERLAY EXISTING PAVEMENT THROUGHOUT THE LIMITS OF PERMANENT MARKINGS SHOWN ON PMP PLAN. (-L- STA. 42+30---SEE PMP-04)



**END TIP PROJECT W-5206AG
POT STA. -L- 34+65.71**



DESIGN DATA

AADT 2012 = 18,000

V = 50 MPH

FUNC CLASS = RURAL ARTERIAL

REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5206AG = 0.491 MILES

TOTAL LENGTH OF TIP PROJECT W-5206AG = 0.491 MILES

Prepared for the North Carolina Department of Transportation in the office of:

PLANS PREPARED BY
PARSONS

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 27, 2014

LETTING DATE:
MAY 19, 2015

DAVID L. WILVER, P.E.
PROJECT ENGINEER

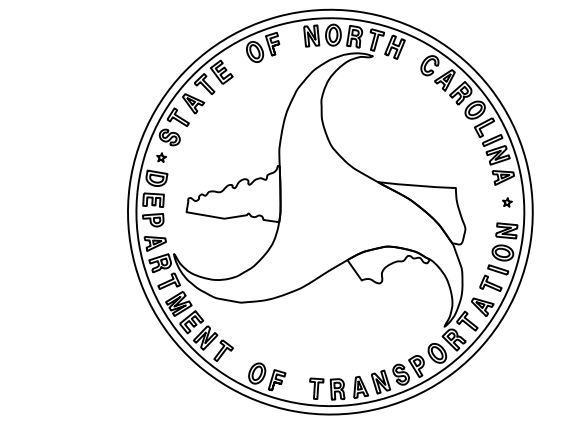
TIM D. GOINS, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

4/3/2015
P.E.

ROADWAY DESIGN ENGINEER

4/8/2015
P.E.



01-APR-2015 09:37
J:\W-5206AG\Roadway\Proj\W5206AG-Rdy-TSH.dgn
\$\$\$\$\$SERNAME\$\$\$\$\$

PLANS PREPARED BY : PARSONS <small>RALEIGH, NORTH CAROLINA, (919) 854-1345 NC LICENSE NO. F-0246 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION</small>	PROJECT REFERENCE NO.	SHEET NO.
	W-5206AG	1A

ROADWAY DESIGN
ENGINEER

4/6/2015

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C	SURVEY CONTROL SHEET
2A-1 THRU 2A-2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2B-1 THRU 2B-2	DETAIL OF TEMPORARY DETOURS (ONSITE) AND DETAIL SHOWING MONOLITHIC ISLAND AND FENCING LOCATIONS
2D-1	DETAIL OF STEEL PLATE COVERS FOR DRAINAGE BOXES
2D-2	DETAIL OF CONCRETE SIDEWALK WITH WELDED WIRE MESH
3B-1	SUMMARY OF QUANTITIES SUMMARY OF GUARDRAIL, EARTHWORK SUMMARY, AND ASPHALT PAVEMENT REMOVAL SUMMARY
3D-1 THRU 3D-2	SUMMARY OF DRAINAGE QUANTITIES
4	PLAN SHEET
5	PROFILE SHEET
TMP-1 THRU TMP-6	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-4	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
UC-01 THRU UC-05	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-5	UTILITIES PLANS
X-1A THRU X-11	CROSS-SECTIONS
C-1 THRU C-6	CULVERT PLANS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 07/30/12

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 II.

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.

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 TIMEWARNER CABLE, CHARTER CABLE, PIEDMONT NATURAL GAS, CENTURYLINK, CAMPBELL WATER, HARNETT COUNTY WATER, CAMPBELL SEWER, DUKE POWER ELECTRIC, CAMPBELL UNIV. (COMMUNICATIONS)

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	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.05	Method of Obtaining Superelevation - Divided Highways
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" 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
840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.28	Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.45	Precast Drainage Structure
840.52	Precast Manhole
840.54	Manhole Frame and Cover
840.71	Concrete and Brick Pipe Plug
852.01	Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
876.02	Guide for Rip Rap at Pipe Outlets

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

BOUNDARIES AND PROPERTY:

Table listing boundary types: State Line, County Line, Township Line, City Line, Reservation Line, Property Line, Existing Iron Pin, Property Corner, Property Monument, Parcel/Sequence Number, Existing Fence Line, Proposed Woven Wire Fence, Proposed Chain Link Fence, Proposed Barbed Wire Fence, Existing Wetland Boundary, Proposed Wetland Boundary, Existing Endangered Animal Boundary, Existing Endangered Plant Boundary, Existing Historic Property Boundary, Known Soil Contamination: Area or Site, Potential Soil Contamination: Area or Site.

BUILDINGS AND OTHER CULTURE:

Table listing building and culture symbols: Gas Pump Vent or U/G Tank Cap, Sign, Well, Small Mine, Foundation, Area Outline, Cemetery, Building, School, Church, Dam.

HYDROLOGY:

Table listing hydrology symbols: Stream or Body of Water, Hydro, Pool or Reservoir, Jurisdictional Stream, Buffer Zone 1, Buffer Zone 2, Flow Arrow, Disappearing Stream, Spring, Wetland, Proposed Lateral, Tail, Head Ditch, False Sump.

RAILROADS:

Table listing railroad symbols: Standard Gauge, RR Signal Milepost, Switch, RR Abandoned, RR Dismantled.

RIGHT OF WAY:

Table listing right of way symbols: 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 RW Marker, Proposed Control of Access Line with Concrete CA Marker, Existing Control of Access, Proposed Control of Access, Existing Easement Line, Proposed Temporary Construction Easement, Proposed Temporary Drainage Easement, Proposed Permanent Drainage Easement, Proposed Permanent Drainage / Utility Easement, Proposed Permanent Utility Easement, Proposed Temporary Utility Easement, Proposed Aerial Utility Easement, Proposed Permanent Easement with Iron Pin and Cap Marker.

ROADS AND RELATED FEATURES:

Table listing road and related features symbols: Existing Edge of Pavement, Existing Curb, Proposed Slope Stakes Cut, Proposed Slope Stakes Fill, Proposed Curb Ramp, Existing Metal Guardrail, Proposed Guardrail, Existing Cable Guiderail, Proposed Cable Guiderail, Equality Symbol, Pavement Removal.

VEGETATION:

Table listing vegetation symbols: Single Tree, Single Shrub, Hedge, Woods Line.

Table listing Orchard and Vineyard symbols.

EXISTING STRUCTURES:

Table listing existing structures symbols: MAJOR: Bridge, Tunnel or Box Culvert, Bridge Wing Wall, Head Wall and End Wall; MINOR: Head and End Wall, Pipe Culvert, Footbridge, Drainage Box: Catch Basin, DI or JB, Paved Ditch Gutter, Storm Sewer Manhole, Storm Sewer.

UTILITIES:

Table listing utility symbols: 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, Designated U/G Power Line (S.U.E.*); 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, Designated U/G Telephone Cable (S.U.E.*), Recorded U/G Telephone Conduit, Designated U/G Telephone Conduit (S.U.E.*), Recorded U/G Fiber Optics Cable, Designated U/G Fiber Optics Cable (S.U.E.*).

WATER:

Table listing water symbols: Water Manhole, Water Meter, Water Valve, Water Hydrant, Recorded U/G Water Line, Designated U/G Water Line (S.U.E.*), Above Ground Water Line.

TV:

Table listing TV symbols: TV Satellite Dish, TV Pedestal, TV Tower, U/G TV Cable Hand Hole, Recorded U/G TV Cable, Designated U/G TV Cable (S.U.E.*), Recorded U/G Fiber Optic Cable, Designated U/G Fiber Optic Cable (S.U.E.*).

GAS:

Table listing gas symbols: Gas Valve, Gas Meter, Recorded U/G Gas Line, Designated U/G Gas Line (S.U.E.*), Above Ground Gas Line.

SANITARY SEWER:

Table listing sanitary sewer symbols: Sanitary Sewer Manhole, Sanitary Sewer Cleanout, U/G Sanitary Sewer Line, Above Ground Sanitary Sewer, Recorded SS Forced Main Line, Designated SS Forced Main Line (S.U.E.*).

MISCELLANEOUS:

Table listing miscellaneous symbols: Utility Pole, Utility Pole with Base, Utility Located Object, Utility Traffic Signal Box, Utility Unknown U/G Line, 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, End of Information.

02/03/15

TIP PROJECT: W-5206AG

CONTRACT:

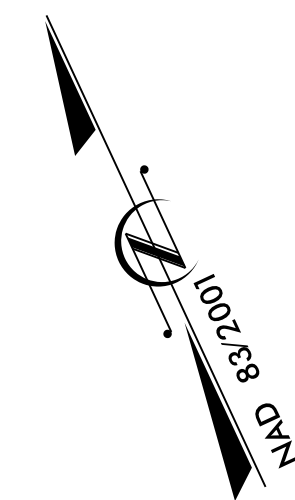
W-5206AG SURVEY CONTROL SHEET

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5206AG	1C	

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NGS FOR MONUMENT "HIGHLAND" WITH NAD 83/ 2001 STATE PLANE GRID COORDINATES OF NORTHING: 603410.31(fft) EASTING: 2074402.94(fft) ELEVATION: 183.58(fft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987271
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "HIGHLAND" TO -L- STATION IS S 71° 23' 45.12" E (2,360.89')
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

- ◆ INDICATES REBAR AND CAP USED OR SET FOR HORIZONTAL PROJECT CONTROL BY CH ENGINEERING.
 - ⊠ INDICATES BENCHMARK USED OR SET FOR VERTICAL PROJECT CONTROL BY CH ENGINEERING.
- PROJECT CONTROL WAS ESTABLISHED USING NCGS VIRTUAL REFERENCE STATION (VRS) NETWORK

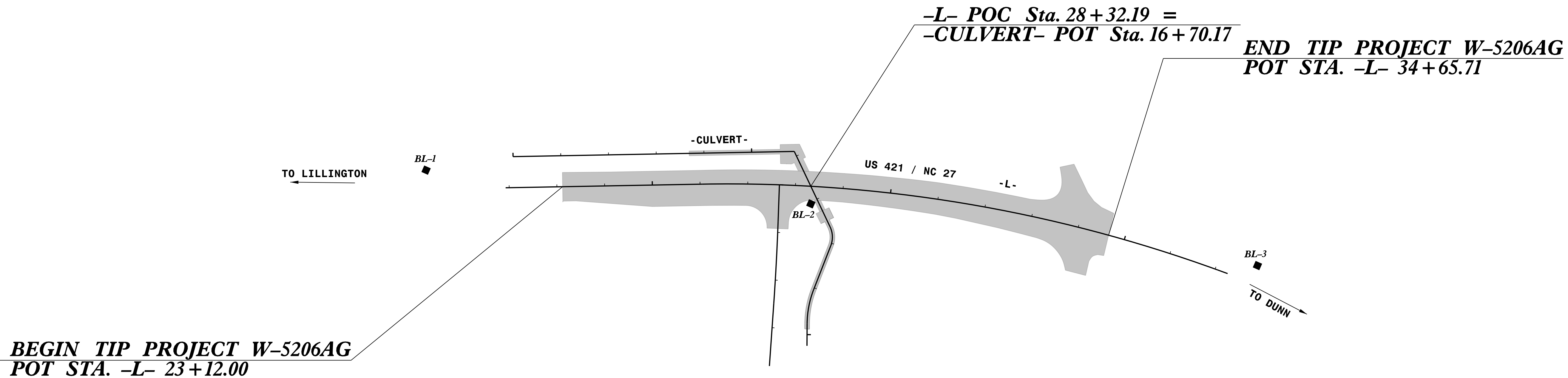
DRAWING NOT TO SCALE



BASELINE DATA

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	602793.2915	2076386.4325	174.20	BL-1
2	602434.9048	2077102.0498	186.27	BL-2
3	601974.7363	2077937.049	176.72	BL-3

-L-			
TYPE	STATION	NORTH	EAST
POT	10+00.00	603110.5719	2075409.3184
PC	26+04.47	602556.0358	2076914.9142
PT	37+05.03	601996.8223	2077855.6475
POT	40+45.67	601772.2690	2078111.8038



CH ENGINEERING

3220 GLEN ROYAL RD. RALEIGH, NC 27617
 TEL. (919) 788-0224 FAX (919) 788-0232
 CORPORATE LICENSE # P-0189

GRAPHIC SCALES

50 25 0 50 100

 PLANS

50 25 0 50 100

 PROFILE (HORIZONTAL)

10 5 0 10 20

 PROFILE (VERTICAL)

DESIGN DATA

AADT 2012 = 18,000
 V = 50 MPH
 FUNC CLASS = RURAL ARTERIAL

REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5206AG = 0.491 MILES

TOTAL LENGTH OF TIP PROJECT W-5206AG = 0.491 MILES

Prepared for the North Carolina Department of Transportation in the office of:

PLANS PREPARED BY

PARSONS

5540 Corporate Blvd., Suite 217
 Suite 217, 217
 10000 Corporate Blvd., Suite 217
 10000 Corporate Blvd., Suite 217
 10000 Corporate Blvd., Suite 217

SUNGATE DESIGN GROUP, P.A.

10000 Corporate Blvd., Suite 217
 10000 Corporate Blvd., Suite 217
 10000 Corporate Blvd., Suite 217

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 AUGUST 27, 2014

LETTING DATE:
 MAY 19, 2015

DAVID L. WILVER, P.E.
 PROJECT ENGINEER

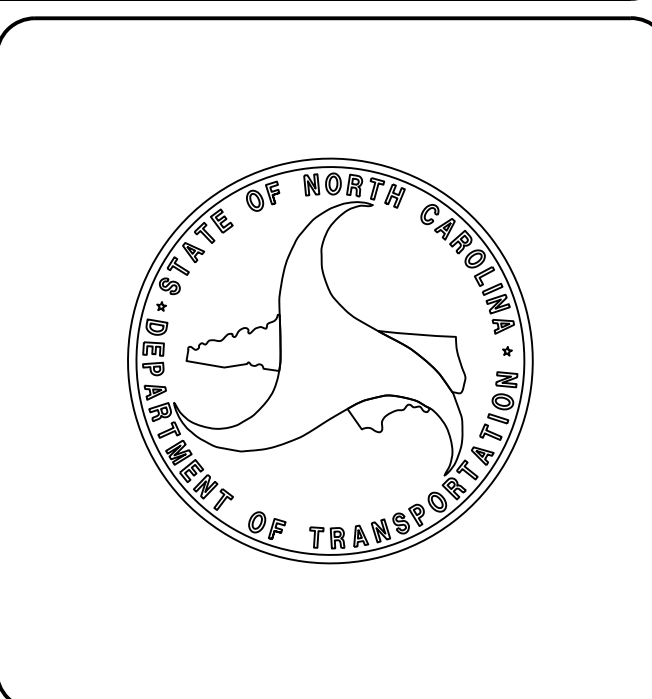
TIM D. GOINS, P.E.
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

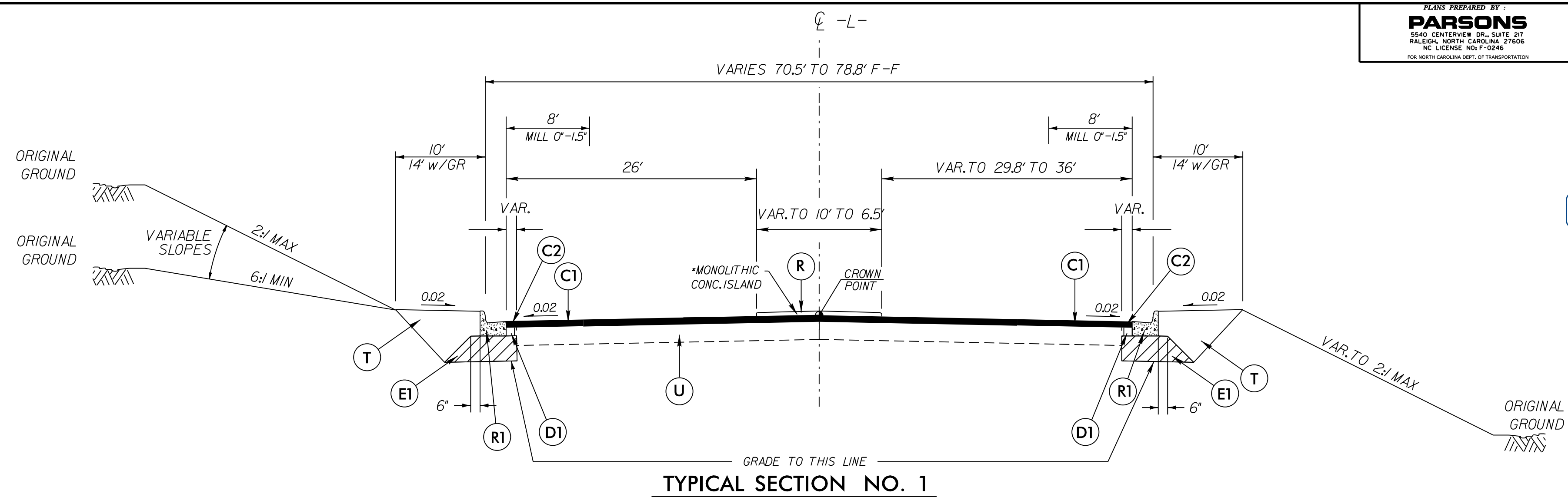
SIGNATURE: _____ P.E.



01-APR-2015 09:38 J:\W-5206AG\Roadway\Proj\W5206AG-Rdy-Survey ControlSheet 1C.dgn \$\$\$\$SERNAME\$\$\$\$

FINAL PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	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.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	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 B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	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.
R	PROP. 5" MONOLITHIC CONCRETE ISLAND (KEY-IN)
R1	PROPOSED 2'-6" CURB AND GUTTER
R2	EXISTING 2'-6" CURB AND GUTTER TO BE RETAINED
S	PROPOSED 4" CONCRETE SIDEWALK WITH WELDED WIRE MESH
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

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



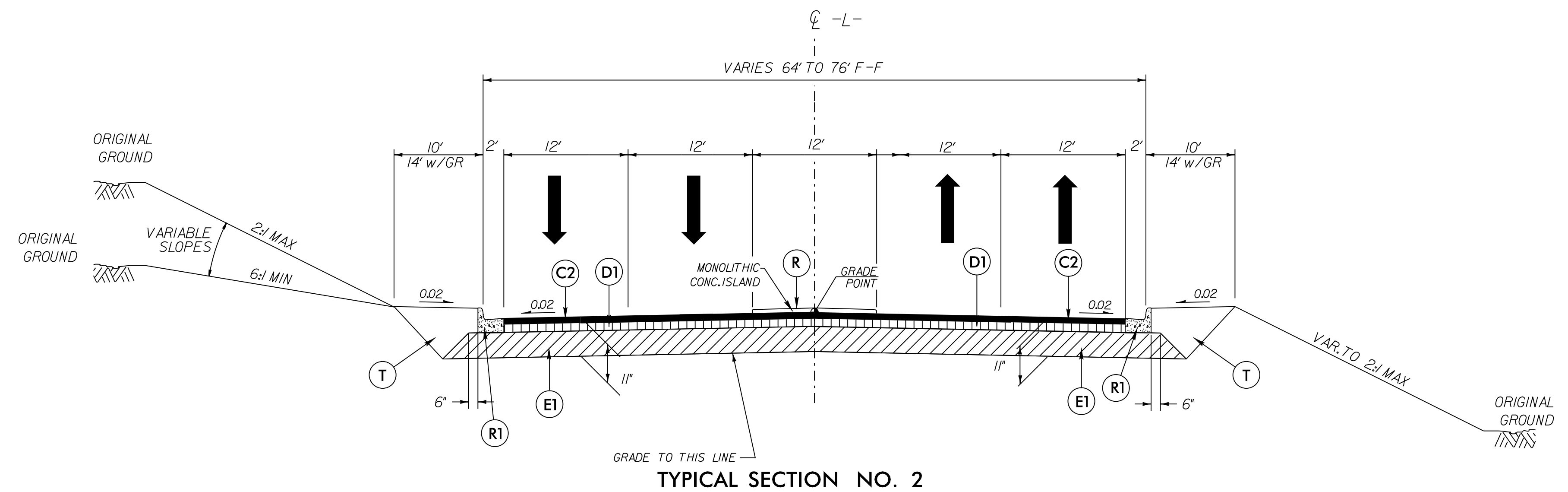
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1

-L- STA. 23+12.00 TO STA. 24+12.00
 -L- STA. 29+00.00 TO STA. 31+00.00

*NOTE: SEE PLAN VIEW FOR EXACT LOCATION OF MONOLITHIC ISLAND

**NOTE: OVERLAY EXISTING PAVEMENT WITH 1.5" S9.5C THROUGHOUT LIMITS OF PERMANENT MARKINGS SHOWN IN PMP PLAN. (-L- STA.16+40---SEE PMP-03)



TYPICAL SECTION NO. 2

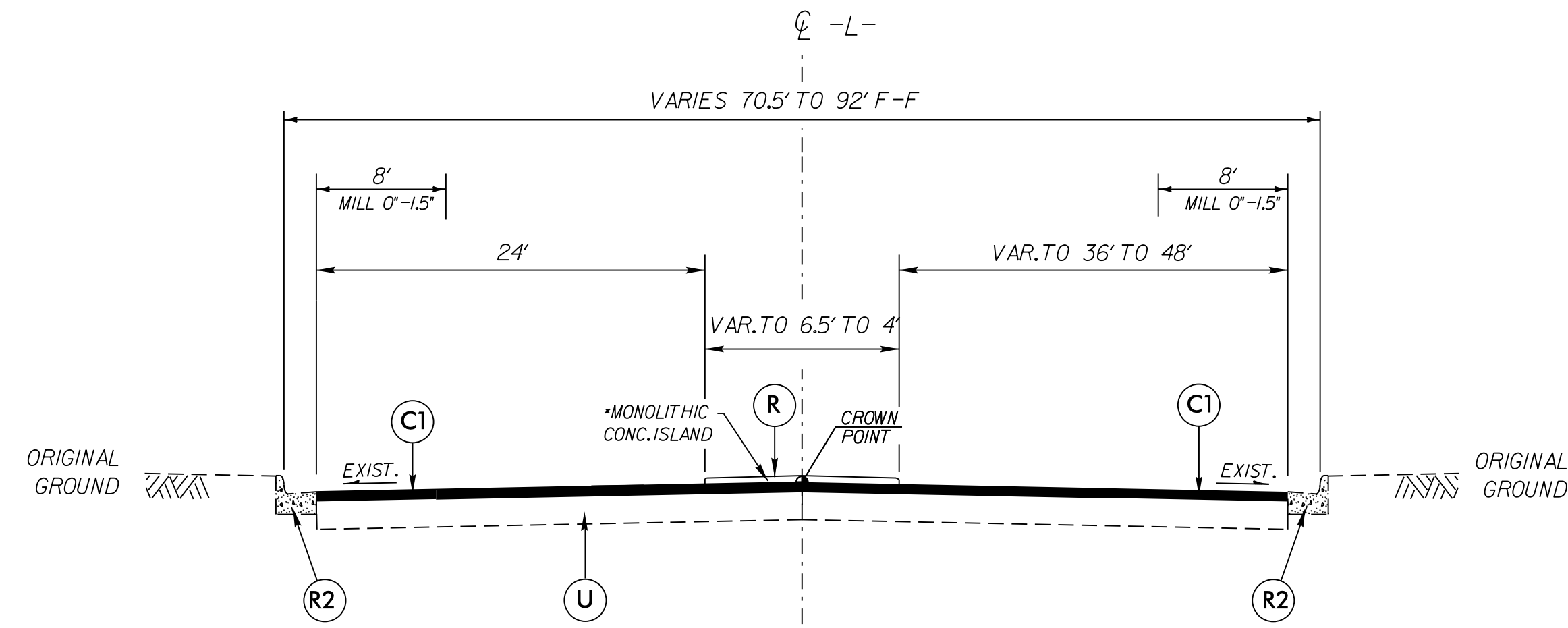
USE TYPICAL SECTION NO. 2

-L- STA. 24+12.00 TO STA. 29+00.00

PLANS PREPARED BY: PARSONS 3340 CENTERVILLE ROAD, SUITE 201 RALEIGH, NORTH CAROLINA 27606 NC LICENSE NO. P-10246 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION	
PROJECT REFERENCE NO.	SHEET NO.
W-5206AG	2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 37874 JIM MOTT 4/6/2015	NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022896 CLARK HARRIS 4/6/2015

FINAL PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	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.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	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 B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	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.
R	PROP. 5" MONOLITHIC CONCRETE ISLAND (KEY-IN)
R1	PROPOSED 2'-6" CURB AND GUTTER
R2	EXISTING 2'-6" CURB AND GUTTER TO BE RETAINED
S	PROPOSED 4" CONCRETE SIDEWALK WITH WELDED WIRE MESH
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

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



TYPICAL SECTION NO. 3

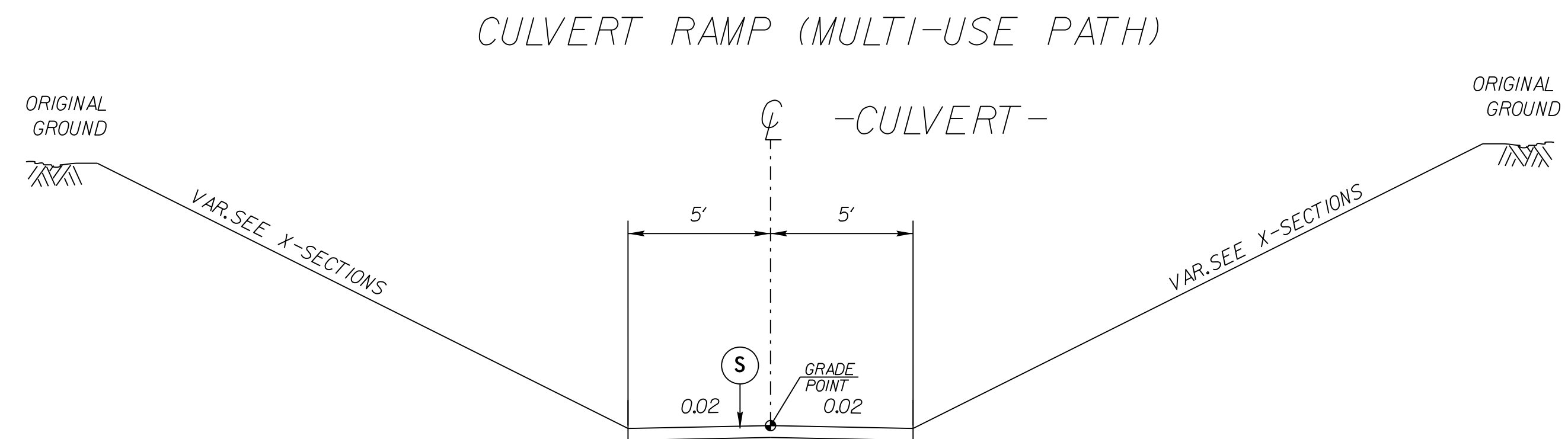
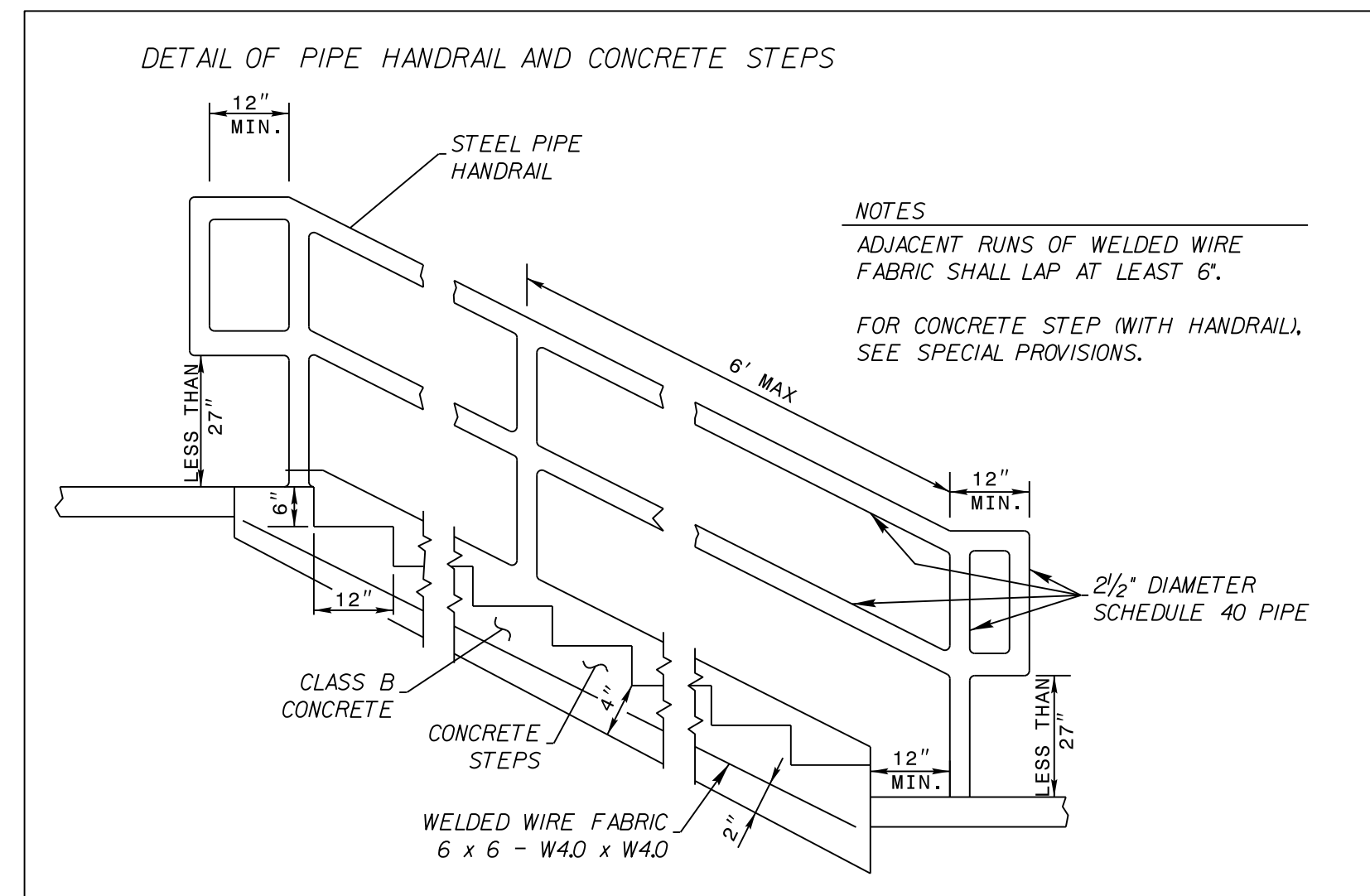
USE TYPICAL SECTION NO. 3

-L- STA. 31+00.00 TO STA. 34+65.71

*NOTE: SEE PLAN VIEW FOR EXACT LOCATION OF MONOLITHIC ISLAND

**NOTE: OVERLAY EXISTING PAVEMENT WITH 1.5" S9.5C THROUGHOUT LIMITS OF PERMANENT MARKINGS SHOWN IN PMP PLAN. (-L- STA. 42+30 --- SEE PMP-04)

<small>PLANS PREPARED BY:</small> PARSONS <small>3940 CENTERVIEW DRIVE, SUITE 211 RALEIGH, NORTH CAROLINA 27606 NC LICENSE NO. P-10246 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION</small>		PROJECT REFERENCE NO. W-5206AG	SHEET NO. 2A-2
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 		
4/8/2015	4/8/2015		



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4

-CULVERT- STA. 13+69.00 TO STA. 16+10.60 (BEGIN CULVERT)

-CULVERT- STA. 17+26.66 (END CULVERT) TO STA. 19+90.00

O:\APR-2015\JF42
 J:\W-5206AG\Roadway\Proj\W5206AG.Rdy-TYP-2A-2.dgn
 \$\$\$USERNAME\$\$\$

PROJECT REFERENCE NO. W-5206AG	SHEET NO. 2B-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	

EB_TEMP

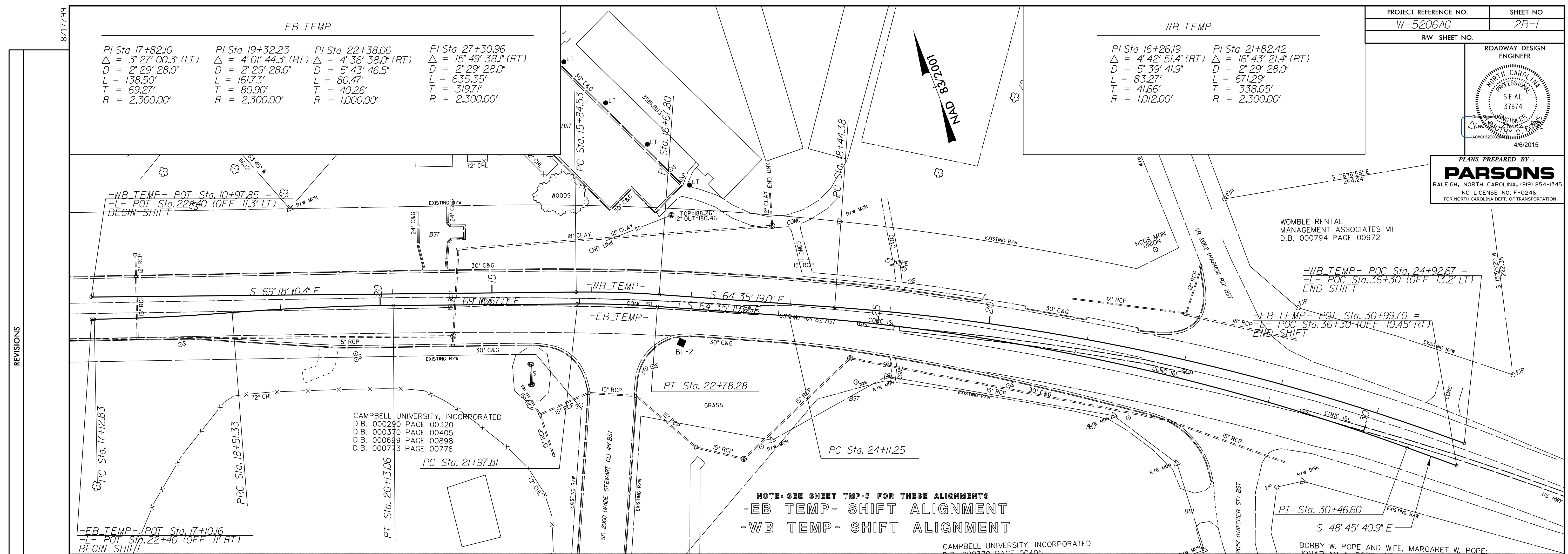
PI Sta 17+82.10 Δ = 3° 27' 00.3" (LT) D = 2° 29' 28.0" L = 138.50' T = 69.27' R = 2,300.00'	PI Sta 19+32.23 Δ = 4° 01' 44.3" (RT) D = 2° 29' 28.0" L = 161.73' T = 80.90' R = 2,300.00'	PI Sta 22+38.06 Δ = 4° 36' 38.0" (RT) D = 5° 43' 46.5" L = 80.47' T = 40.26' R = 1,000.00'	PI Sta 27+30.96 Δ = 15° 49' 38.1" (RT) D = 2° 29' 28.0" L = 635.35' T = 319.71' R = 2,300.00'
--	--	---	--

WB_TEMP

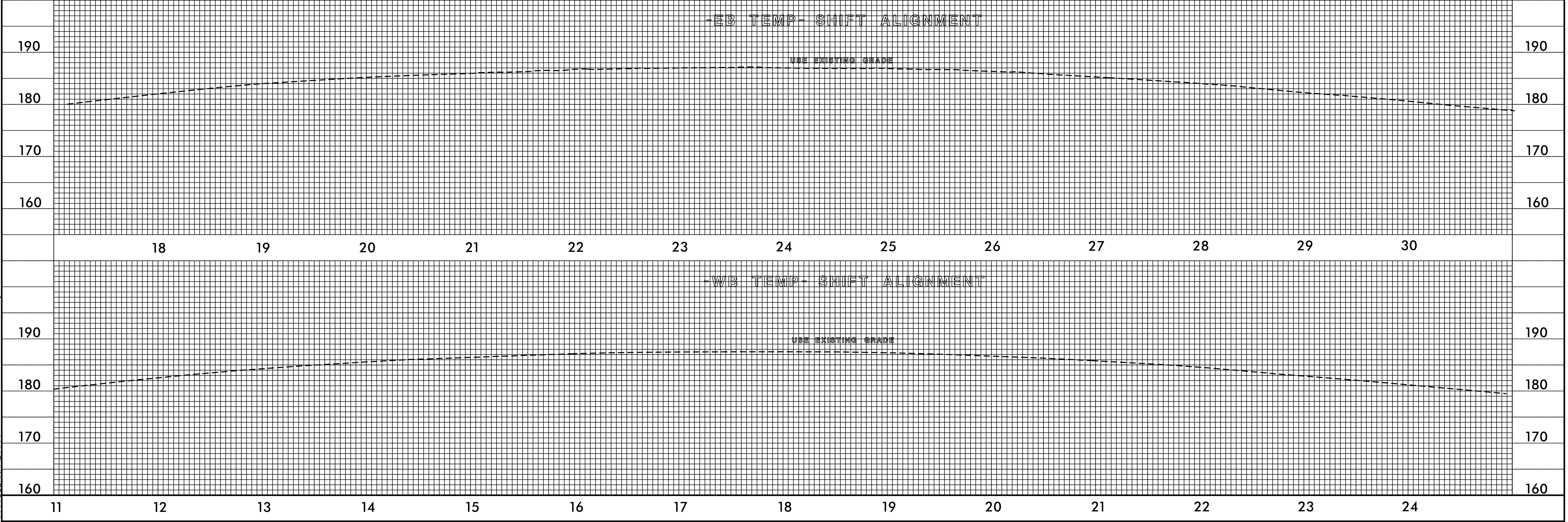
PI Sta 16+26.19 Δ = 4° 42' 51.4" (RT) D = 5° 39' 41.9" L = 83.27' T = 41.66' R = 1,012.00'	PI Sta 21+82.42 Δ = 16° 43' 21.4" (RT) D = 2° 29' 28.0" L = 671.29' T = 338.05' R = 2,300.00'
---	--

PLANS PREPARED BY:

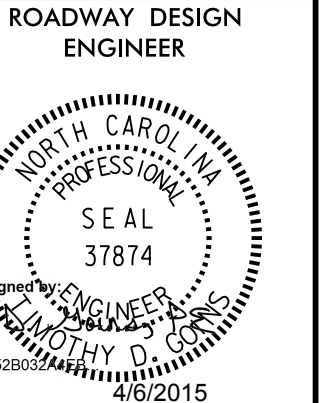
PARSONS
RALEIGH, NORTH CAROLINA, (919) 854-1345
NC LICENSE NO. F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION



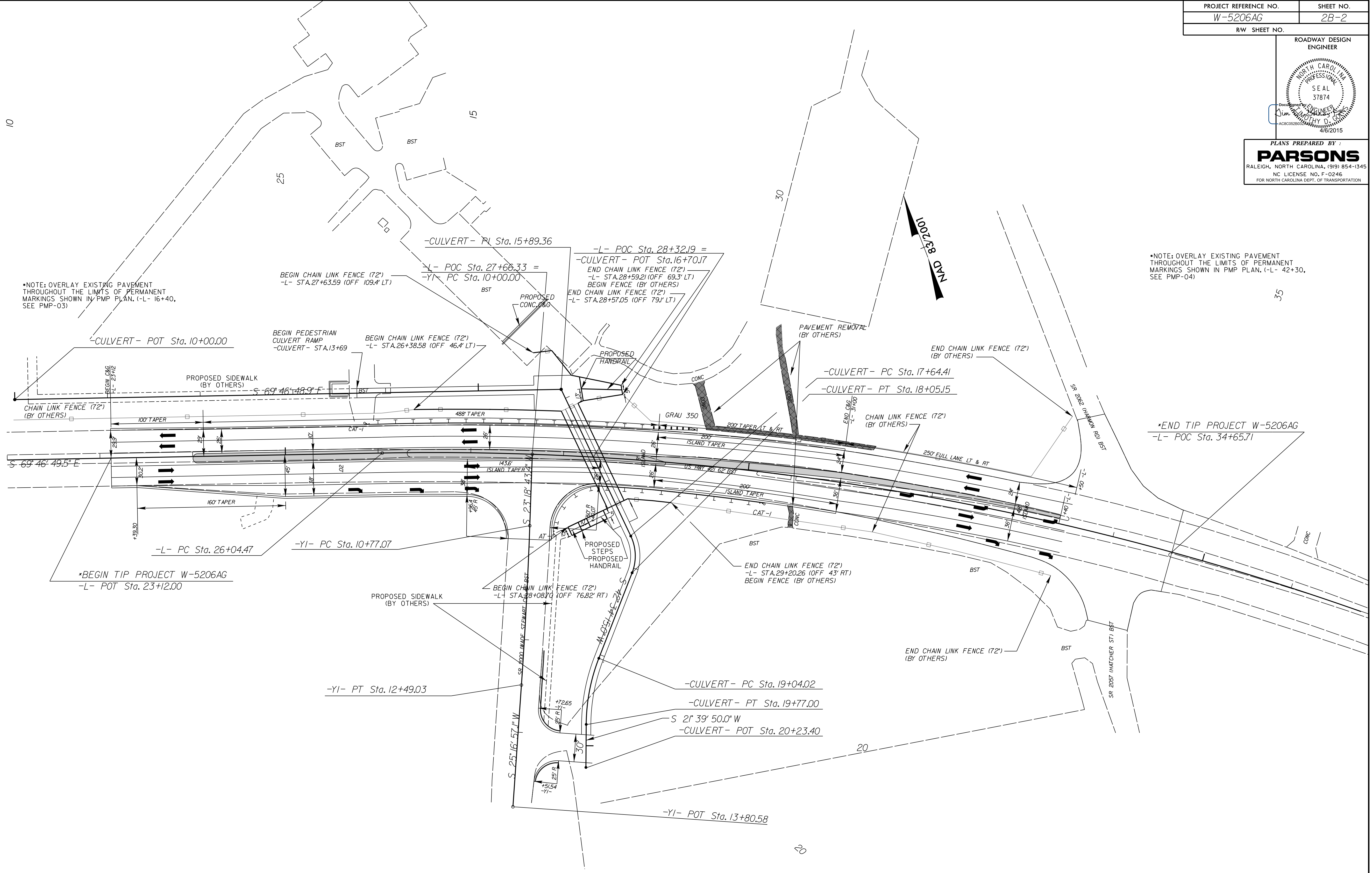
REVISIONS



8/17/99
 01-APR-2015 09:38
 J:\W-5206AG\Foodway\PCo\W5206AG_Rdu_PSH_2B-1_DE TOURS.dgn
 \$\$\$USERVALUE\$\$\$



PLANS PREPARED BY:
PARSONS
RALEIGH, NORTH CAROLINA, (919) 854-1345
NC LICENSE NO. F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION



*NOTE: OVERLAY EXISTING PAVEMENT THROUGHOUT THE LIMITS OF PERMANENT MARKINGS SHOWN IN PMP PLAN. (-L- 16+40, SEE PMP-03)

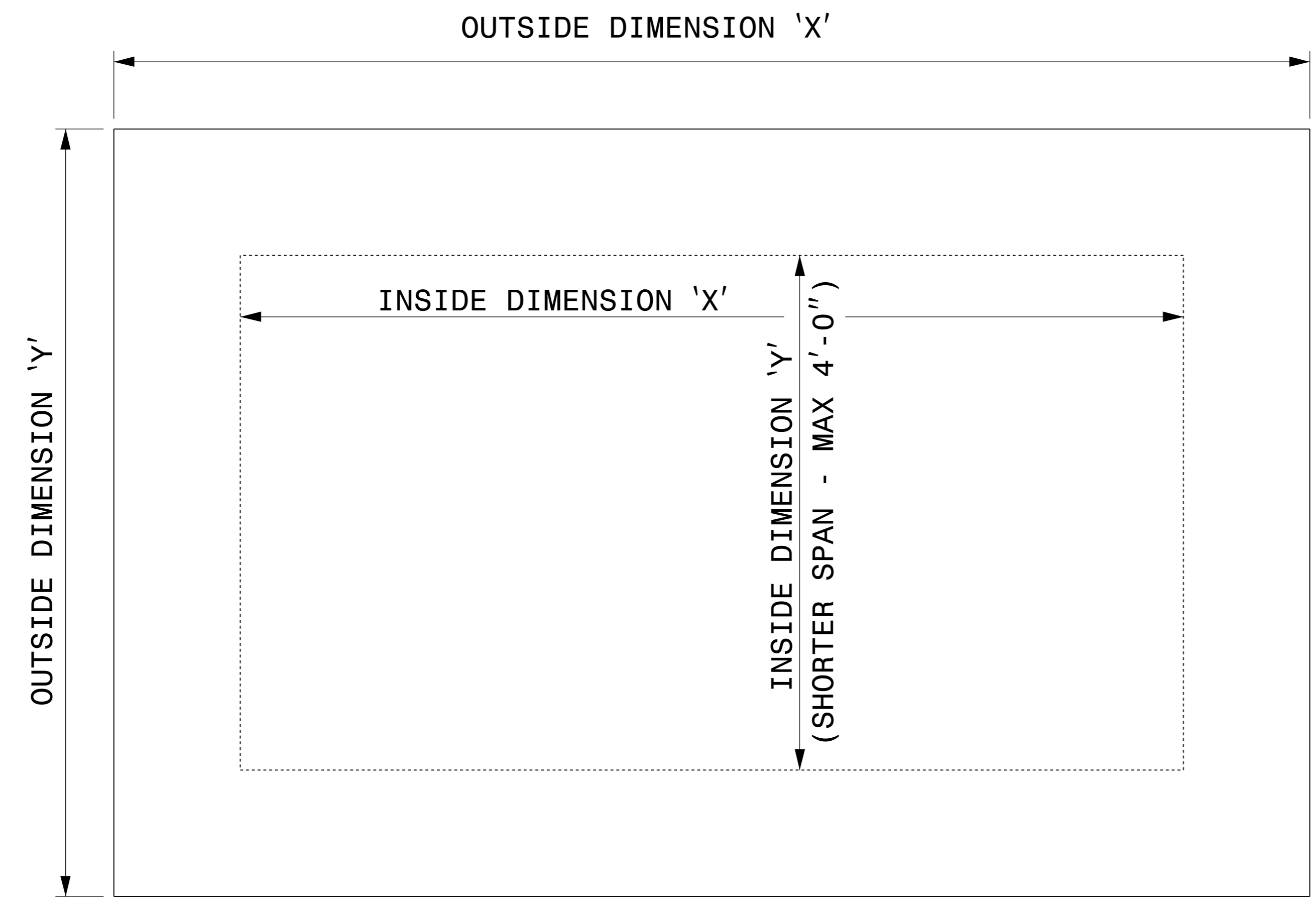
*NOTE: OVERLAY EXISTING PAVEMENT THROUGHOUT THE LIMITS OF PERMANENT MARKINGS SHOWN IN PMP PLAN. (-L- 42+30, SEE PMP-04)

*END TIP PROJECT W-5206AG
-L- POC Sta. 34+65.71

DETAIL SHOWING MONOLITHIC ISLAND LAYOUT AND FENCING LOCATIONS

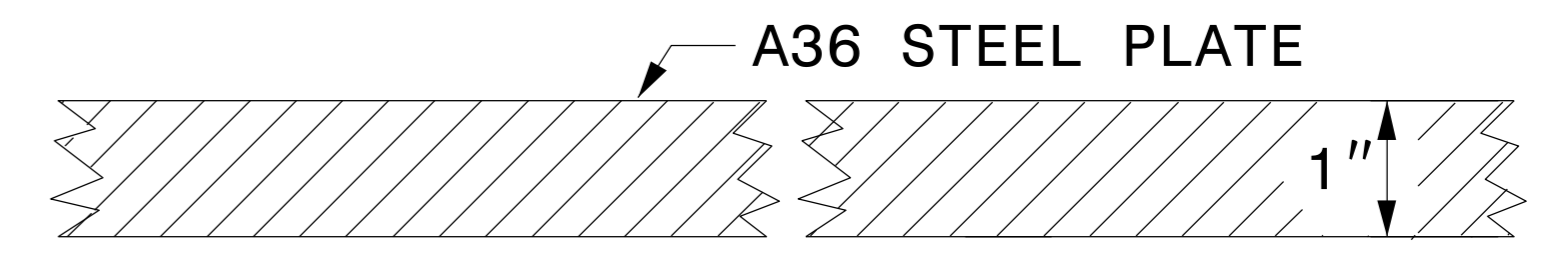
REVISIONS

8/17/99
01-APR-2015 09:38
J:\W-5206AG_Roadway\Proc\W5206AG_Rdu_PSH_2B_2.dgn
\$\$\$\$\$UNREVIEWED\$\$\$\$\$



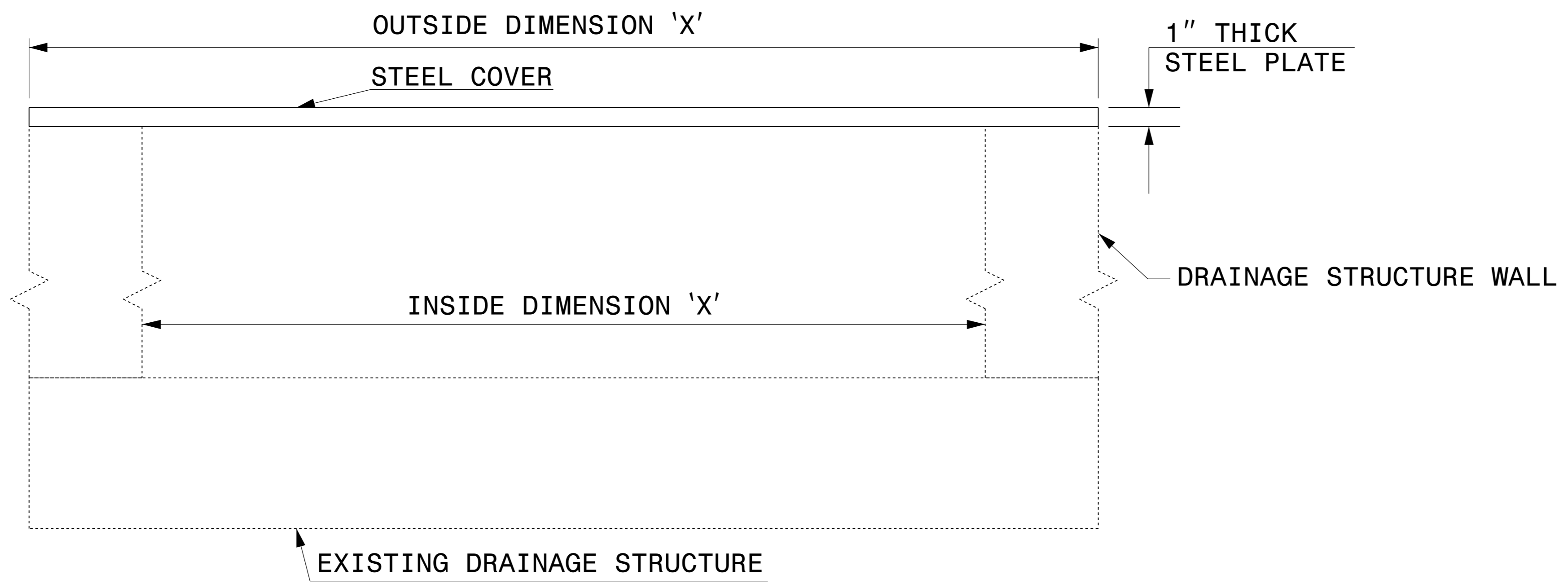
GENERAL NOTES:

- 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.

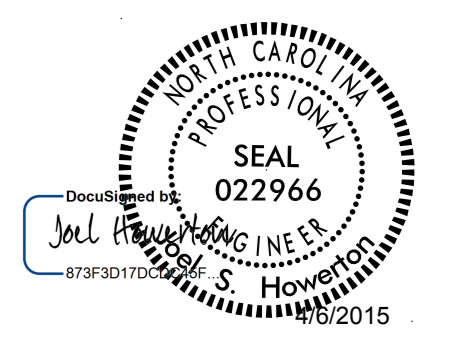


SECTION VIEW OF STEEL TOP PLATE

PLAN VIEWS



ELEVATION VIEWS



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

\$\$\$\$\$CUTME\$\$\$\$\$
\$\$\$\$\$DATE\$\$\$\$\$
\$\$\$\$\$USER\$\$\$\$\$

COMPUTED BY: J. B. BARFIELD_ DATE: 1/6/15
 CHECKED BY: _____ DATE: _____

(2/2/15)

PROJECT NO. 45336.1.FR33 (W-5206AG)	SHEET NO. 3G-1
--	-------------------

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS**

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU/AST	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
			CONTINGENCY		125			200	
			CONTINGENCY	AST					50
			TOTAL CY/TONS/SY:		125	0	0	200	50

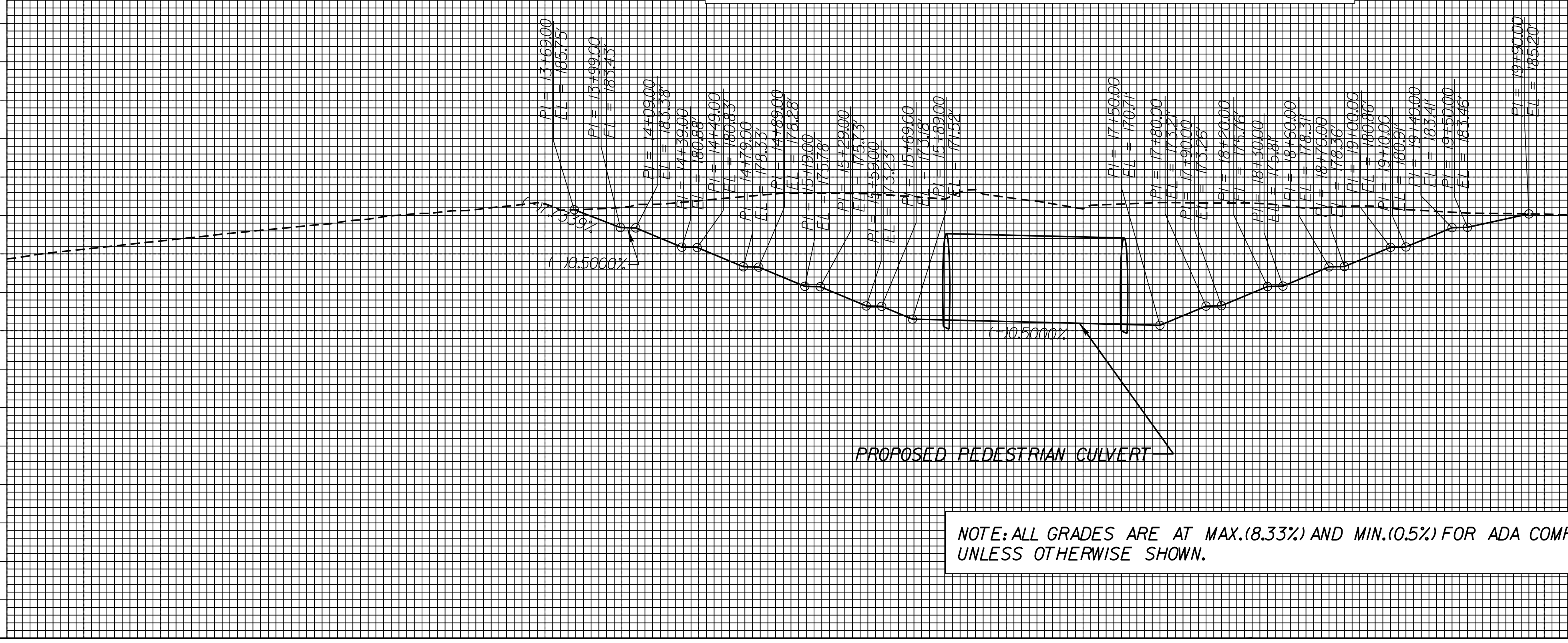
*ASU = Aggregate Subgrade
 *AST = Aggregate Stabilization

NOTE: SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION
 Total square yards of Geotextile for Soil Stabilization is only the estimated quantity for ASU/AST and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.

5/28/99

PROJECT REFERENCE NO. W-5206AG	SHEET NO. 5
ROADWAY DESIGN ENGINEER MATHY D. GIBBS SEAL 37874 4/6/2015	HYDRAULICS ENGINEER JAMES W. DALTON SEAL 026971 4/3/2015

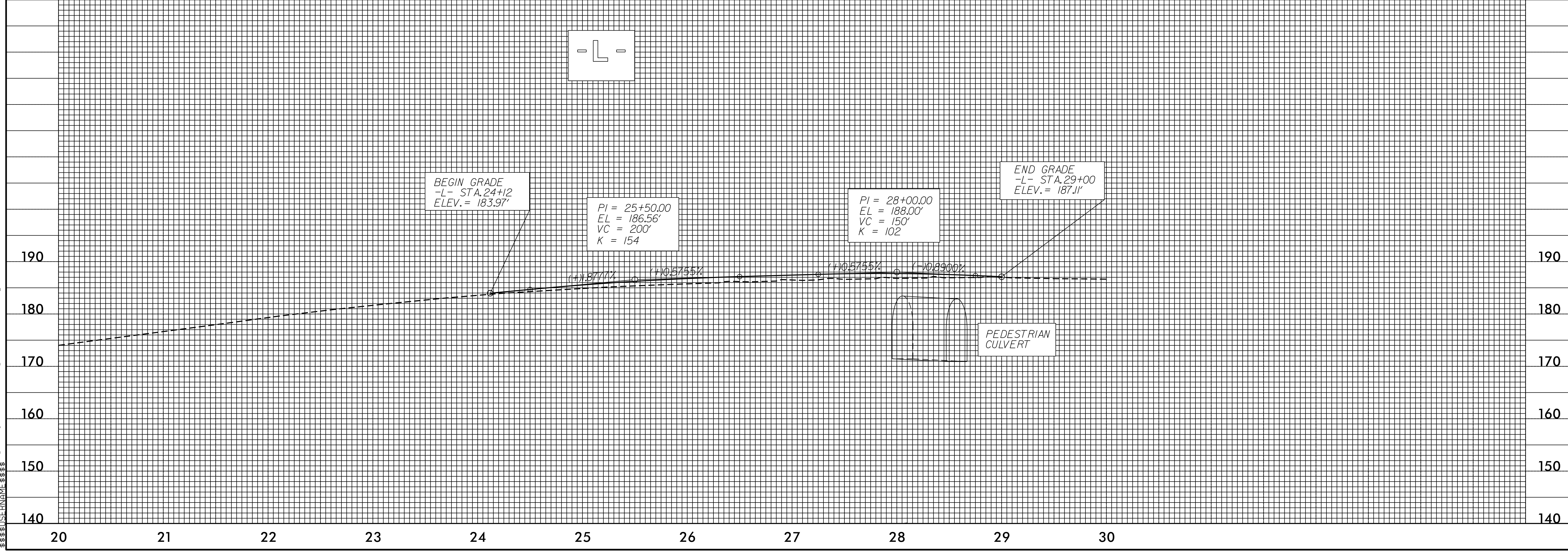
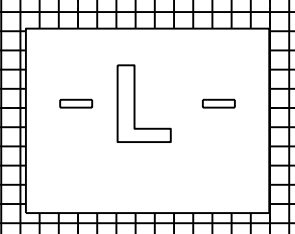
PEDESTRIAN CULVERT



PROPOSED PEDESTRIAN CULVERT

NOTE: ALL GRADES ARE AT MAX.(8.33%) AND MIN.(0.5%) FOR ADA COMPLIANCY UNLESS OTHERWISE SHOWN.

13 14 15 16 17 18 19 20



BEGIN GRADE
-L- STA.24+12
ELEV.= 183.97'

PI = 25+50.00
EL = 186.56'
VC = 200'
K = 154

PI = 28+00.00
EL = 188.00'
VC = 150'
K = 102

END GRADE
-L- STA.29+00
ELEV.= 187.11'

PEDESTRIAN CULVERT

20 21 22 23 24 25 26 27 28 29 30

D:\APR-2015\05138\HWY\PROJ\W5206AG_Rdy_PSH_S05_PFL.dgn