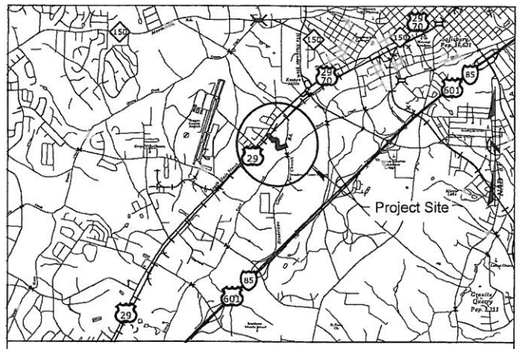
09/08/99

TIP PROJECT: P-4405EC

CONTRACT: 42412.3.10

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



VICINITY MAP

STATE OF NORTH CAROLINA
RAIL DIVISION

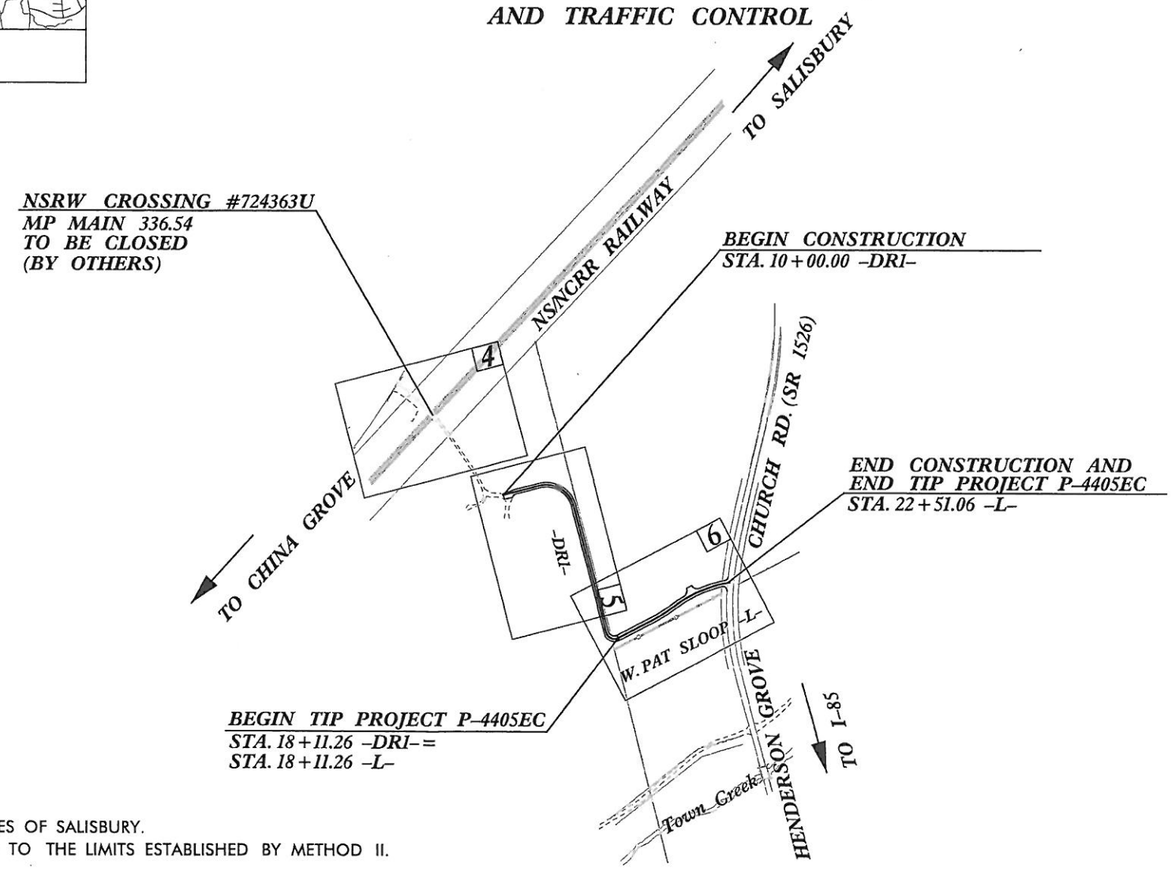
ROWAN COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	P-4405EC	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
42412.1.10	STP-000S (608)	PE
42412.2.10	STP-000S (608)	R/W & UTILITY
42412.3.10	STP-000S (608)	CONST

LOCATION: W. PAT SLOOP @ NS/NCRR RAILWAY CROSSING NO. 724363U
PRIVATE CROSSING CLOSURE &
CONSTRUCTION OF ACCESS ROAD / DRIVEWAY

TYPE OF WORK: PAVING, GRADING, DRAINAGE, PAVEMENT MARKINGS AND TRAFFIC CONTROL



NCDOT RAIL DIVISION CONTACT:
DANIEL HAVENER, PE - PROJECT ENGINEER
(919) 715-8797

THIS PROJECT IS WITHIN THE MUNCIPAL BOUNDARIES OF SALISBURY.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

GRAPHIC SCALES

20 10 0 20 40
PLANS

20 10 0 20 40
PROFILE (HORIZONTAL)

4 2 0 4 8
PROFILE (VERTICAL)

DESIGN DATA

ADT NA = NA
ADT NA = NA
DHV = NA
D = NA
T = NA
V = 35 MPH
By Design Speed
-L- STA. 18+11.26 TO
-L- STA. 22+51.06
FUNC CLASS = RURAL LOCAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT P-4405EC = 0.08 MILES

TOTAL LENGTH TIP PROJECT P-4405EC = 0.08 MILES

Prepared for NCDOT In the Office of:

Gannett Fleming

GANNETT FLEMING, INC.
301 S. McDOWELL STREET, SUITE 1008
CHARLOTTE, NORTH CAROLINA 28204-2644
PHONE: 704-372-2438 FAX: 704-332-9361
GF PROJECT NO. - 053175.600

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 17, 2013

LETTING DATE:
JULY 24, 2013

ALLISON C. JOHNSON, P.E.
PROJECT ENGINEER

CHRISTOPHER J. EASTERLY, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040266 6-10-13 CHRISTOPHER J. EASTERLY

SIGNATURE: P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER P.E.

6/19/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_tsh.dgn
default

STATE OF NORTH CAROLINA
RAIL DIVISION

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	1-A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 040786 ENGINEER CHRISTOPHER J. EINSTEIN 6-18-13

INDEX OF SHEETS

SHEET NO.	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL AND CENTERLINE COORDINATE LIST
1-D	SURVEY CONTROL AND CENTERLINE COORDINATE LIST
2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3	SUMMARY OF ROW AND DRAINAGE
4-6	PLAN SHEETS
7 AND 8	PROFILE SHEETS
TCP-1 AND TCP-2	TRAFFIC CONTROL PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS
X-1 THRU X-6	CROSS SECTIONS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED:

GRADE LINE:
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

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

UTILITIES:

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

EFF. 01-17-12

2012 ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated 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
DIVISION 3 - PIPE CULVERTS	
300.01	METHOD OF PIPE INSTALLATION
DIVISION 3 - PIPE CULVERTS	
300.01	METHOD OF PIPE INSTALLATION
DIVISION 8 - INCIDENTALS	
876.02	GUIDE FOR RIP RAP AT OUTLETS
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1145.01	BARRICADES - TYPE III
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT	
1605.01	Temporary Silt Fence
1633.02	Temporary Rock Silt Check Type B

5/14/99

6/19/2013
K:\5375600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_1a.dgn
roject

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	1-B

Note: Not to Scale

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

STATE OF NORTH CAROLINA
RAIL DIVISION

CONVENTIONAL PLAN SHEET SYMBOLS

NORTH CAROLINA PROFESSIONAL SEAL 040288 ENGINEER CHRISTOPHER J. EASTERLY 6-10-13

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — 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
- Swamp Marsh
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line
- Proposed Right of Way Line with Iron Pin and Cap Marker
- Proposed Right of Way Line with Concrete or Granite Marker
- Existing Control of Access
- Proposed Control of Access
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- 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 Wheel Chair Ramp — WCR
- Proposed Wheel Chair Ramp Curb Cut — WCC
- Curb Cut for Future Wheel Chair Ramp — CCFR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole — HH
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

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

WATER:

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

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- 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

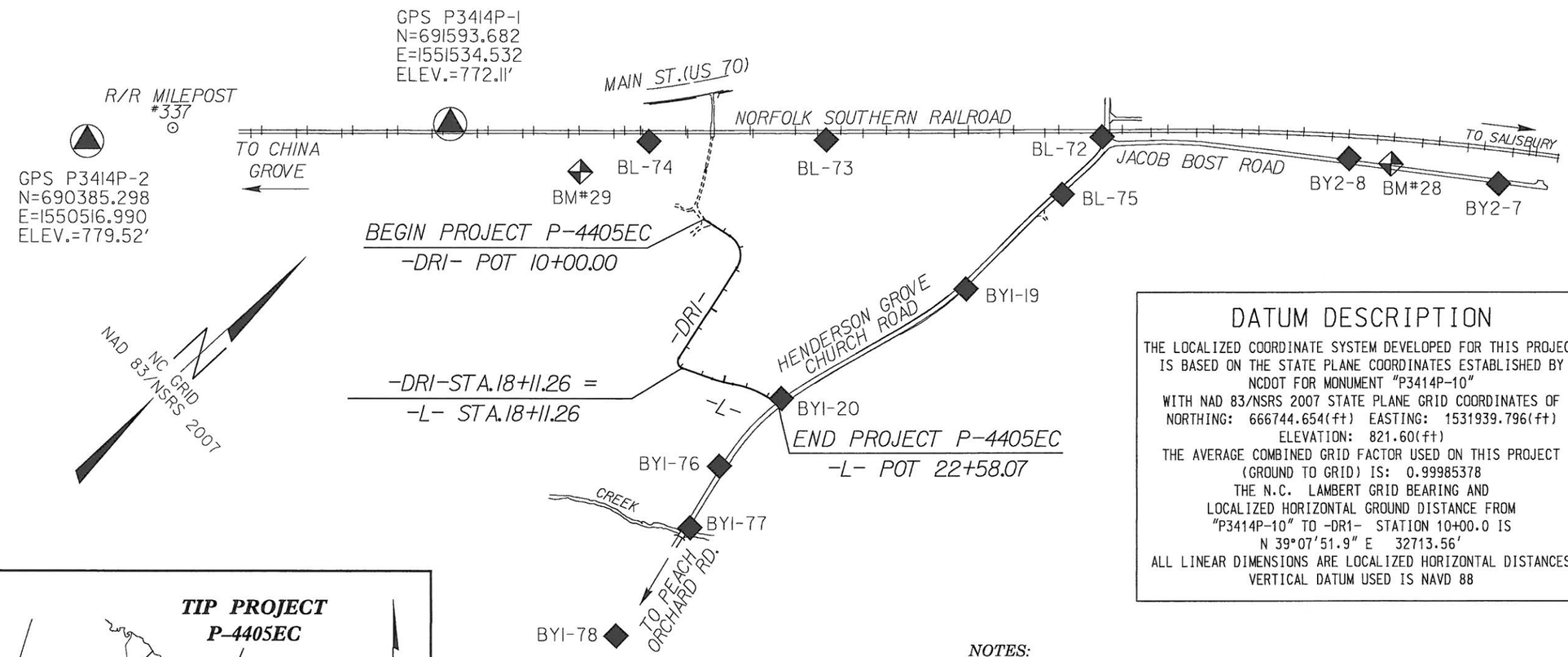
MISCELLANEOUS:

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

3/15/06
6/10/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_1b.dgn
roject

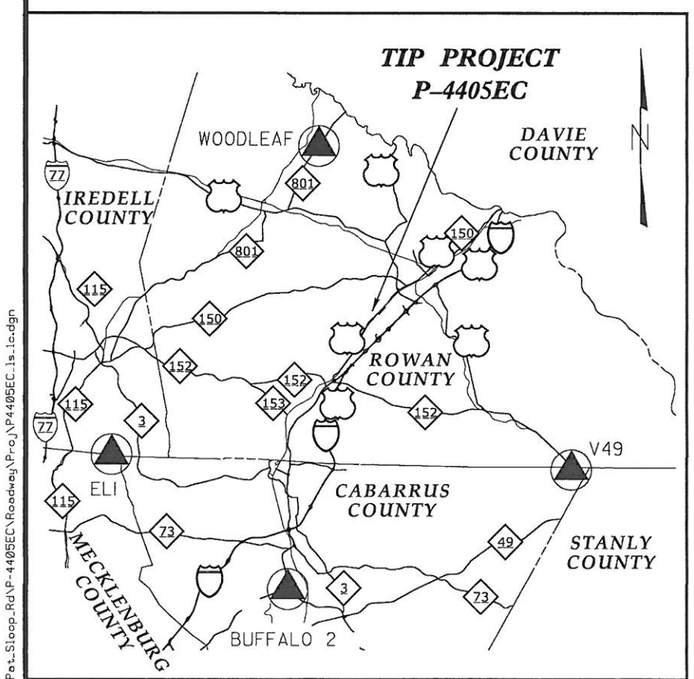
PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	1-C
Location and Surveys	

SURVEY CONTROL SHEET P-4405EC



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "P3414P-10"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 666744.654(ft) EASTING: 1531939.796(ft)
ELEVATION: 821.60(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99985378
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "P3414P-10" TO -DR1- STATION 10+00.0 IS
N 39°07'51.9" E 32713.56'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



VICINITY MAP

NOTE: DRAWING NOT TO SCALE

NOTES:

1. *THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD 83/NSRS 2007 ADJUSTMENT. THIS CALIBRATION WILL ALLOW THE END USER TO WORK WITHIN THE SAME COORDINATE SYSTEM WHEN USING RTK (REAL TIME KINEMATIC) GPS AND A LOCAL BASE STATION. IF ANOTHER SYSTEM SUCH AS VRS (VIRTUAL REFERENCE STATION) IS USED, ADDITIONAL FIELD TIES MAY BE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.*

2. *THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:*
HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/

THE FILES TO BE FOUND ARE AS FOLLOWS:
P3414P_LS_GPSCALIB.HTML
P3414P_LS_WGS84.TXT
P3414P_LS_LOCAL.TXT
P4405EC_LS_CONTROL.TXT

THE WGS84 AND LOCAL FILES ARE COMMA DELIMITED AND CAN BE USED TO REPRODUCE THE SITE CALIBRATION FOR THE END USER'S GPS EQUIPMENT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION
SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

6/2/99
6/10/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_ls_lc.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	1-D
Location and Surveys	

SURVEY CONTROL SHEET P-4405EC

GPS Calibration Report

Project : P3414PZ

TIP Number P3414P
User name tbovender Date & Time 6:15:58 AM 3/30/2009
Coordinate System US State Plane 1983(at ground) Zone North Carolina 3200
Horizontal Datum NAD 1983 (Conus)
Vertical Datum NAVD 88 Geoid Model G03NC
Coordinate Units US survey feet
Distance Units US survey feet
Height Units US survey feet

LOCAL SITE INFORMATION
Localized around
Latitude 35^34'18.46142"N
Longitude 80^34'26.64222"W
Site Scale Factor 1.0001462406
Height 719.931sft

The North Carolina Department of Transportation uses a Localized Coordinate System which is very similar to North Carolina Zone 3200 from which it is derived. Please take care in utilizing these coordinates to eliminate confusion of the two systems. This file is to aid in the use of Real Time Kinematic (RTK) GPS during construction layout.

BL

POINT	DESC.	NORTH	EAST	ELEVATION	-DR1- STATION	OFFSET
72	BL-72	693629.7940	1553500.1890	776.43	12+04.11	1646.28 LT
73	BL-73	692745.1230	1552694.2120	770.44	11+52.45	588.78 LT
74	BL-74	692176.0550	1552174.4150	782.87	OUTSIDE PROJECT LIMITS	
1	GPS P3414P-1	691593.6820	1551534.5320	772.11	14+38.63	1382.90 RT
2	GPS P3414P-2	690385.2980	1550516.9900	779.52	17+43.20	2740.67 RT

BY1

POINT	DESC.	NORTH	EAST	ELEVATION	-DR1-,-L- STATION	OFFSET
78	BY1-78	690612.4771	1553649.5216	737.69	19+24.51	1188.99 RT
77	BY1-77	691167.8291	1553524.2257	726.79	20+03.24	645.68 RT
76	BY1-76	691441.9502	1553415.6518	730.60	20+39.90	359.78 RT
20	BY1-20	691839.4322	1553385.0068	740.99	22+54.87	29.96 LT
19	BY1-19	692746.9359	1553579.4936	763.31	12+47.42	986.39 LT
75	BL-75	693333.1475	1553564.2422	770.30	12+16.45	1418.69 LT

BY2

POINT	DESC.	NORTH	EAST	ELEVATION	-DR1- STATION	OFFSET
7	BY2-7	694749.9020	1554820.2070	773.87	12+24.85	3302.36 LT
8	BY2-8	694349.4410	1554299.5770	772.76	12+18.82	2672.17 LT

BENCHMARKS (NAVD88)
****
BM*28 ELEVATION = 773.48'
N 694467 E 1554441
-DR1- STATION 9+73 7' RIGHT
CHISELED CROSS IN EAST END OF 12"RCP.
PIPE IS ON NORTH SIDE OF SR 2543 ACROSS
FROM 1SFD HOUSE #2225
****
****
BM*29 ELEVATION = 771.67'
N 691867 E 1552068
-DR1- STATION 10+00 TO BM*29
S 63°51'50" W DIST 576'
RR SPIKE IN TOP OF CUTOFF POST SET IN
CONCRETE POST. 10' EAST OF EDGE OF
DRIVEWAY
****

Updated Default Projection (Transverse Mercator) Definition

Updated default projection not requested

Horizontal Adjustment Parameters

Northing coordinate of rotation center 667263.504sft
Easting coordinate of rotation center 1532682.097sft
Rotation about the center point 0^00'00"
Translation north 0.075sft
Translation east 0.003sft
Scale factor 0.99999875

Vertical Adjustment Parameters

Northing coordinate of origin point 691593.681sft
Easting coordinate of origin point 1551534.529sft
Vertical separation at origin 0.061sft
Slope north -0.708ppm
Slope east 0.902ppm

Geoid Model Definition

G03NC

Residual Differences Between GPS (WGS84) And Local Coordinates

Summary

	Maximum error	Root Mean Square error	Point
Horizontal	0.003sft	0.001	1_GPS
Vertical	0.001sft	0.000	9_GPS
Three-dimensional	0.003sft	0.001	1_GPS

Datum Transformation Parameters

Datum Transformation computation not requested

Point P3414P GPS-1
Latitude 35^38'27.18153"N
Longitude 80^30'34.06069"W
Height 669.991sft

Northing 691593.681sft
Easting 1551534.529sft
Elevation 772.105sft
Horz error 0.003sft
Vert error 0.000sft
3D error 0.003sft

Point 1
Northing 691593.682sft
Easting 1551534.532sft
Elevation 772.105sft
Utilized Horz and Vert
Quality Adjusted quality

Point P3414P GPS -2
Latitude 35^38'15.07971"N
Longitude 80^30'46.16340"W
Height 677.436sft

Northing 690385.298sft
Easting 1550516.988sft
Elevation 779.520sft
Horz error 0.003sft
Vert error 0.000sft
3D error 0.003sft

Point 2
Northing 690385.299sft
Easting 1550516.991sft
Elevation 779.519sft
Utilized Horz and Vert
Quality Adjusted quality

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCDOT FOR MONUMENT "P3414P-10"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 666744.654(ft) EASTING: 1531939.796(ft)
ELEVATION: 821.60(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.99985378
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"P3414P-1" TO -DR1- STATION 10+00.0 IS
N 39°07'51.9" E 32713.56'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

NOTES:

1. *THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD 83/NSRS 2007 ADJUSTMENT. THIS CALIBRATION WILL ALLOW THE END USER TO WORK WITHIN THE SAME COORDINATE SYSTEM WHEN USING RTK (REAL TIME KINEMATIC) GPS AND A LOCAL BASE STATION. IF ANOTHER SYSTEM SUCH AS VRS (VIRTUAL REFERENCE STATION) IS USED, ADDITIONAL FIELD TIES MAY BE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.*

2. *THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:*
HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/

THE FILES TO BE FOUND ARE AS FOLLOWS:
P3414P_LS_GPSCALIB.HTML
P3414P_LS_WGS84.TXT
P3414P_LS_LOCAL.TXT
P4405EC_LS_CONTROL.TXT

THE WGS84 AND LOCAL FILES ARE COMMA DELIMITED AND CAN BE USED TO REPRODUCE THE SITE CALIBRATION FOR THE END USER'S GPS EQUIPMENT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

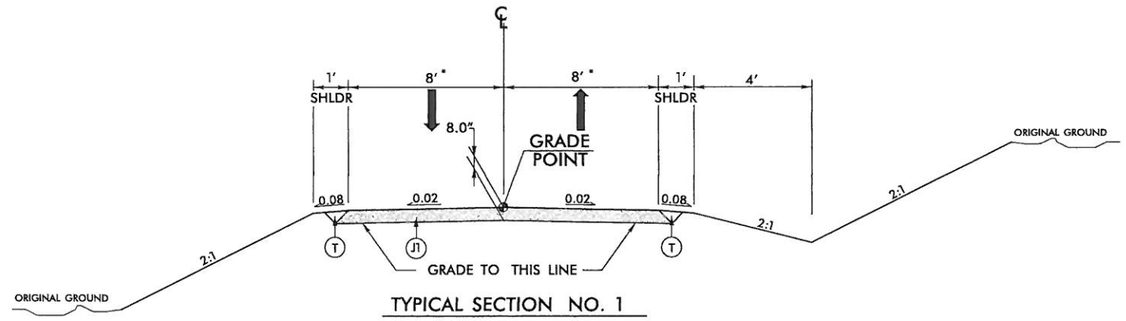
INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION
SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

NOTE: DRAWING NOT TO SCALE

6/2/99
6/10/2013
R:\Structures\B6010_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_ls_1d.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040268 6-10-13 CHRISTOPHER J. EASTERLY

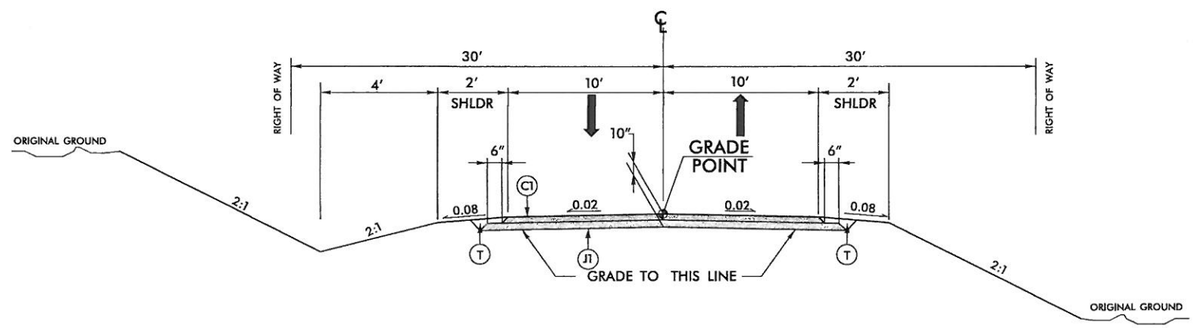


TYPICAL SECTION NO. 1

USE TYPICAL SECTION No. 1

-DR1- STA. 10+00.00 TO STA. 18+11.26

* VARIES FROM -DR1- STA. 17+57.21 TO STA. 18+11.26



TYPICAL SECTION NO. 2

USE TYPICAL SECTION No. 2

-L- STA. 18+11.26 TO STA. 22+51.06

PAVEMENT SCHEDULE

ITEM	DESCRIPTION
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5A, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
J1	PROP. 8" AGGREGATE BASE COURSE
T	EARTH MATERIAL

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

6/2/99

6/10/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_typ.dgn

6/2/99

COMPUTED BY:	DJW	DATE:	2-13-13
CHECKED BY:	CJE	DATE:	2-14-13

STATE OF NORTH CAROLINA
RAIL DIVISION

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	3
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 040266 ENGINEER CHRISTOPHER J. EASTERLY 6-18-13

RIGHT OF WAY AREA DATA

PARCEL NO.	PROPERTY OWNERS NAMES	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RT.	AREA REMAINING LT.	CONST. EASE.	PERM. DRAIN. EASE.	TEMP. DRAIN. EASE.
1	JEREMY KEITH UPRIGHT	50.00 AC				0.82 AC		
2	SOUTHERN EQUIPMENT SERVICES, LLC	26.43 AC	0.69 AC		25.74 AC	0.15 AC		

NOTE: INVERT ELEVATIONS INDICATED ARE FOR BID PURPOSES ONLY AND SHALL NOT BE USED FOR PROJECT CONSTRUCTION STAKEOUT. SEE "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, SECTION 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN PIPE (RCP,CSP,CAAP,HDPE, OR PVC) 12"	15"	18"	24"	30"	36"	42"	48"	C.S. PIPE 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109
-L- STA. 18+50.00	CL				741.70	741.50			40														
-L- STA. 21+23.35	LT				742.75	741.38			49														
-L- STA. 22+40.45	CL				736.60	736.40			43														
SHEET TOTALS									132														

STATION	R.C. PIPE CLASS III 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"	** "R.C. PIPE (CLASS IV)	** "R.C. PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.
-L- STA. 18+50.00																						
-L- STA. 21+23.35																						
-L- STA. 22+40.45																						
SHEET TOTALS																						

STATION	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. *FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. FRAME WITH TWO GRATES STD. 840.29	J.B. STD. 840.31 OR 840.34	T.B.G.D.I. STD. 840.35	SIDE DRAIN PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD 840.72	PIPE REMOVAL LIN.FT.	REMARKS
-L- STA. 18+50.00																							25	
-L- STA. 21+23.35																								
-L- STA. 22+40.45																								
SHEET TOTALS																							25	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
M.D.I. (N.S.)	MEDIAN DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUCTION BOX

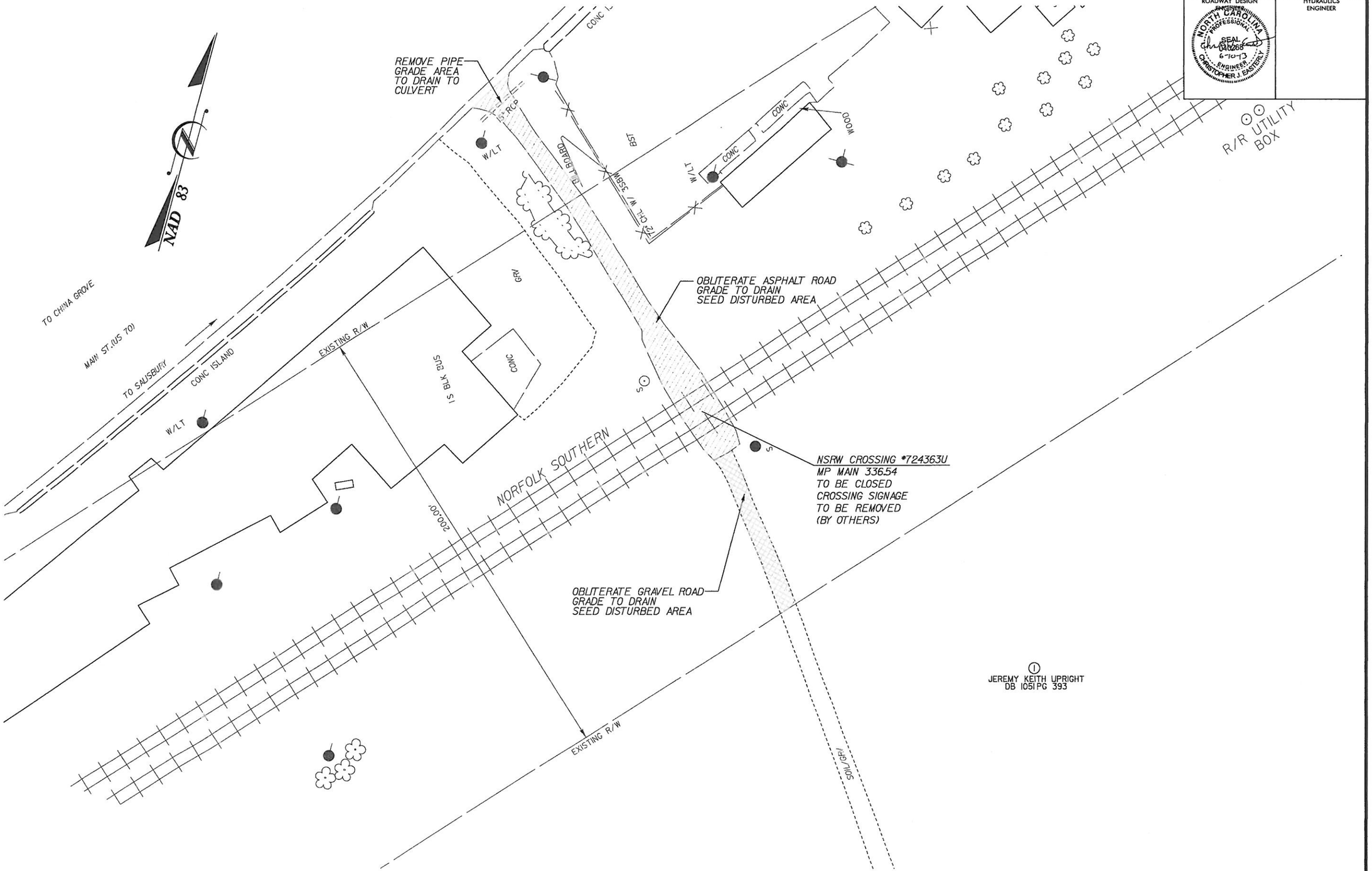
SUMMARY OF QUANTITIES

MASTER ITEM NO.	SEC. NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT
0000100000-N	800	MOBILIZATION	1	LS
0008000000-E	200	SUPPLEMENTARY CLEARING & GRUBBING	1	AC
0043000000-N	226	COMPREHENSIVE GRADING	1	LS
0057000000-E	226	UNDERCUT EXCAVATION	100	CY
0134000000-E	240	DRAINAGE DITCH EXCAVATION	100	CY
0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	150	SY
0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	20	TN
0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	132	LF
0995000000-E	340	PIPE REMOVAL	25	LF
1121000000-E	520	AGGREGATE BASE COURSE	1,220	TN
1220000000-E	545	INCIDENTAL STONE BASE	40	TN
1525000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5A	230	TN
1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	15	TN
2000000000-N	806	RIGHT OF WAY MARKERS	6	EA
3649000000-E	876	RIP RAP, CLASS B	6	TON
4399000000-N	1105	TEMPORARY TRAFFIC CONTROL	1	LS
4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS WHITE)	880	LF
4686000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS YELLOW)	440	LF
4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS WHITE)	10	LF
6000000000-E	1605	TEMPORARY SILT FENCE	1,250	LF
6006000000-E	1610	EROSION CONTROL STONE - CLASS A	20	TN
6009000000-E	1610	EROSION CONTROL STONE - CLASS B	20	TN
6012000000-E	1610	SEDIMENT CONTROL STONE	100	TN
6030000000-E	1630	SILT EXCAVATION	100	CY
6071020000-E	SP	POLYACRYLAMIDE-PAM	6	LB
6071010000-E	SP	WATTLE	20	LF
6036000000-E	1631	EROSION CONTROL MATTING	1,800	SY
6084000000-E	1660	SEEDING & MULCHING	1	AC
6117000000-N	SP	SUPPLEMENTAL RESPONSE FOR EROSION CONTROL	5	EA

6/19/2013
K:\5317\5600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Hyd_drn_sum.dgn
roject

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 040268 ENGINEER CHRISTOPHER J. EASTERLY 6-10-13

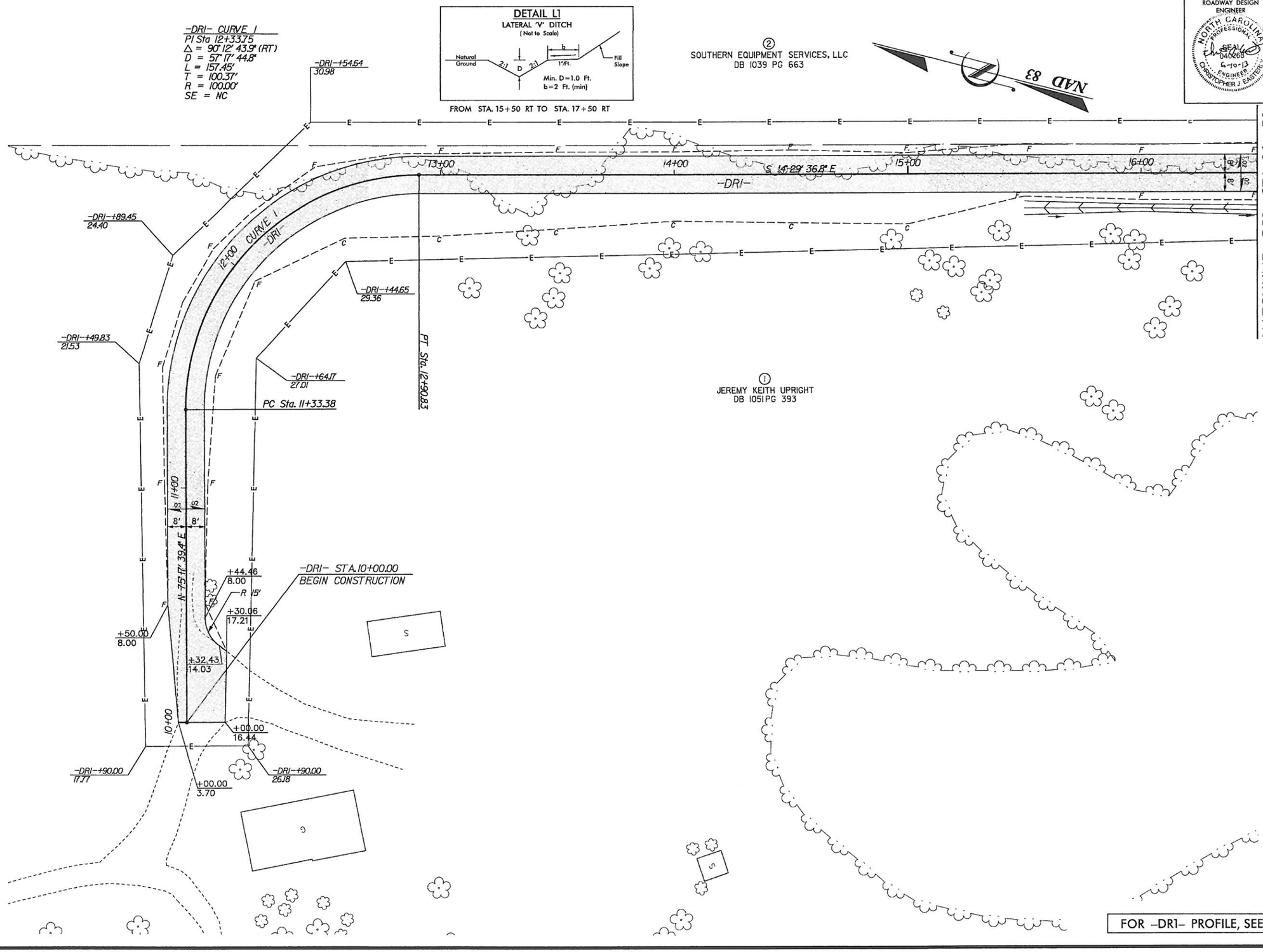


REVISIONS

8/17/99

6/10/2013
K:\53175600_Pat.Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_psh4.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FOR -DRI- PROFILE, SEE SHEET NO. 7

REVISIONS

8/17/99

6/10/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_psh5.dgn

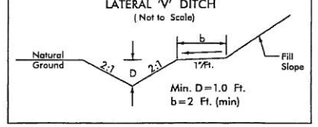
PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 040268 ENGINEER CHRISTOPHER J. ENTERLY 6-10-13

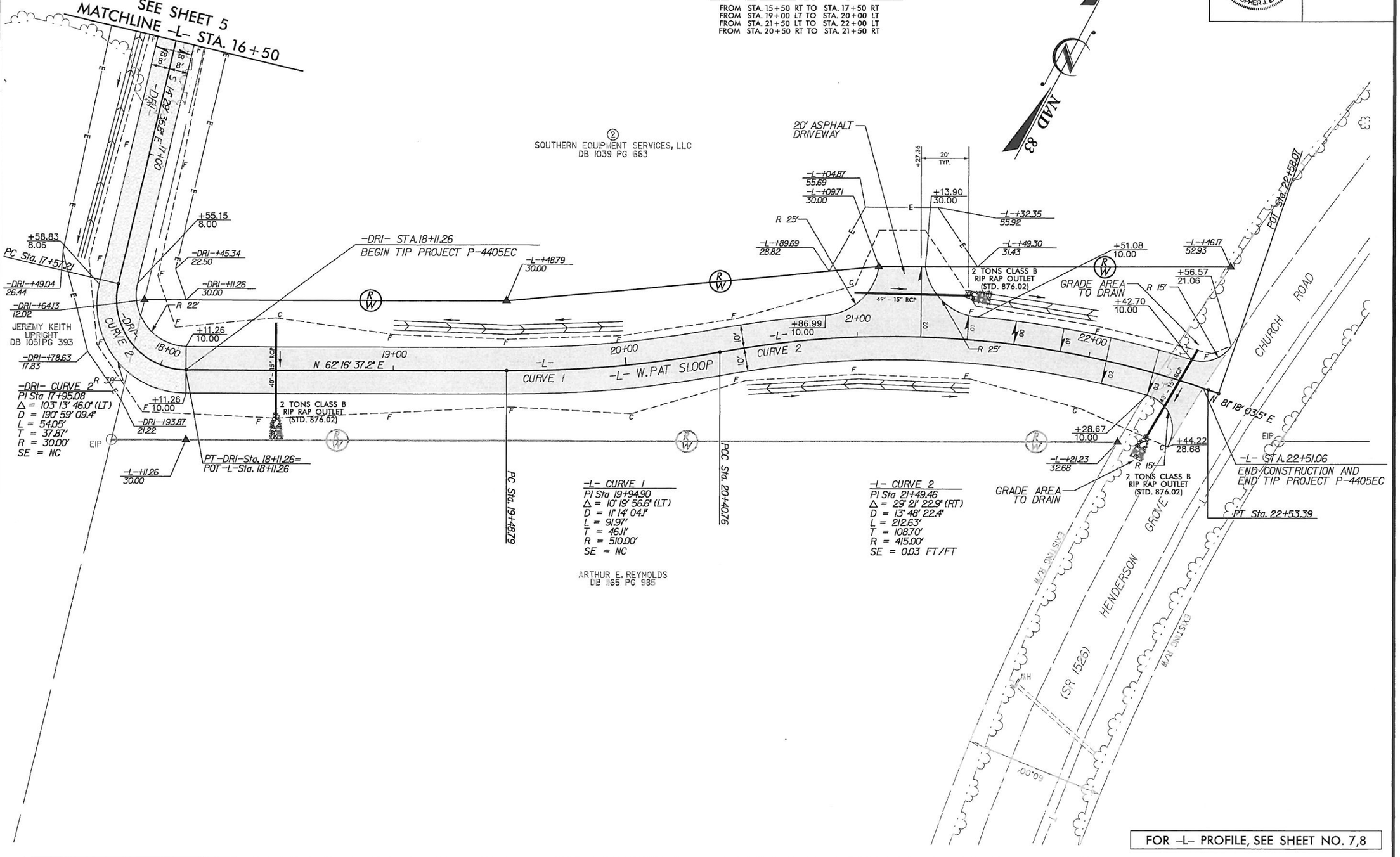
DETAIL L1

LATERAL 'V' DITCH

(Not to Scale)



FROM STA. 15+50 RT TO STA. 17+50 RT
FROM STA. 19+00 LT TO STA. 20+00 LT
FROM STA. 21+50 LT TO STA. 22+00 LT
FROM STA. 20+50 RT TO STA. 21+50 RT



FOR -L- PROFILE, SEE SHEET NO. 7,8

REVISIONS

8/17/99

6/18/2013
6:53:50 PM
C:\pwworking\cdot\d0200_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_pah6.dgn

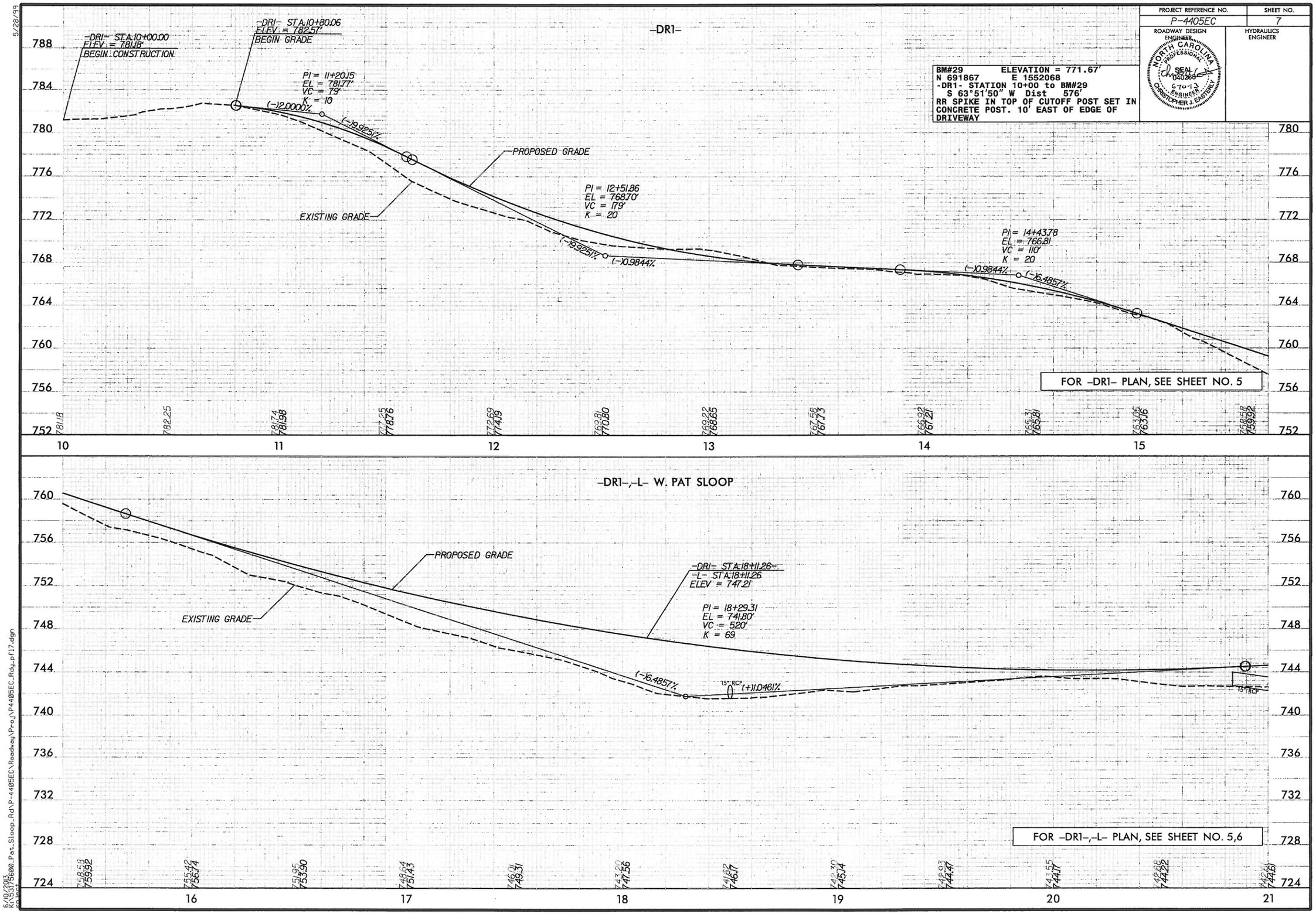
5/28/99

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	7

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 040269 ENGINEER CHRISTOPHER J. EASTERLY 6-10-13

HYDRAULICS ENGINEER

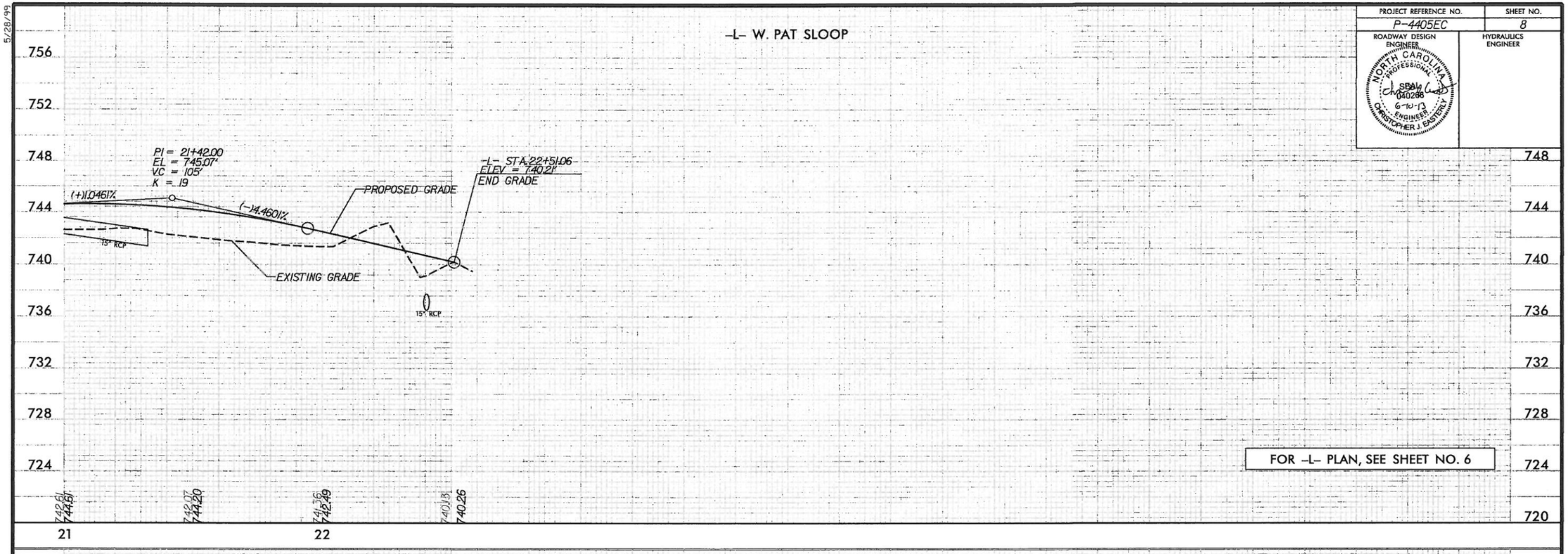


6/10/2013
K:\53\75600.Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_pf17.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 040288 ENGINEER CHRISTOPHER J. ESTERLY 6-10-13

-L- W. PAT SLOOP



FOR -L- PLAN, SEE SHEET NO. 6

5/28/99

6/10/2013
K:\5375600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_pfl8.dgn

09/08/99

TIP PROJECT: P-4405EC

CONTRACT: 42412.3.10

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	P-4405EC	EC-1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
42412.1.10	STP-000S(608)	PE
42412.2.10	STP-000S(608)	R/W & UTILITY
42412.3.10	STP-000S(608)	CONST

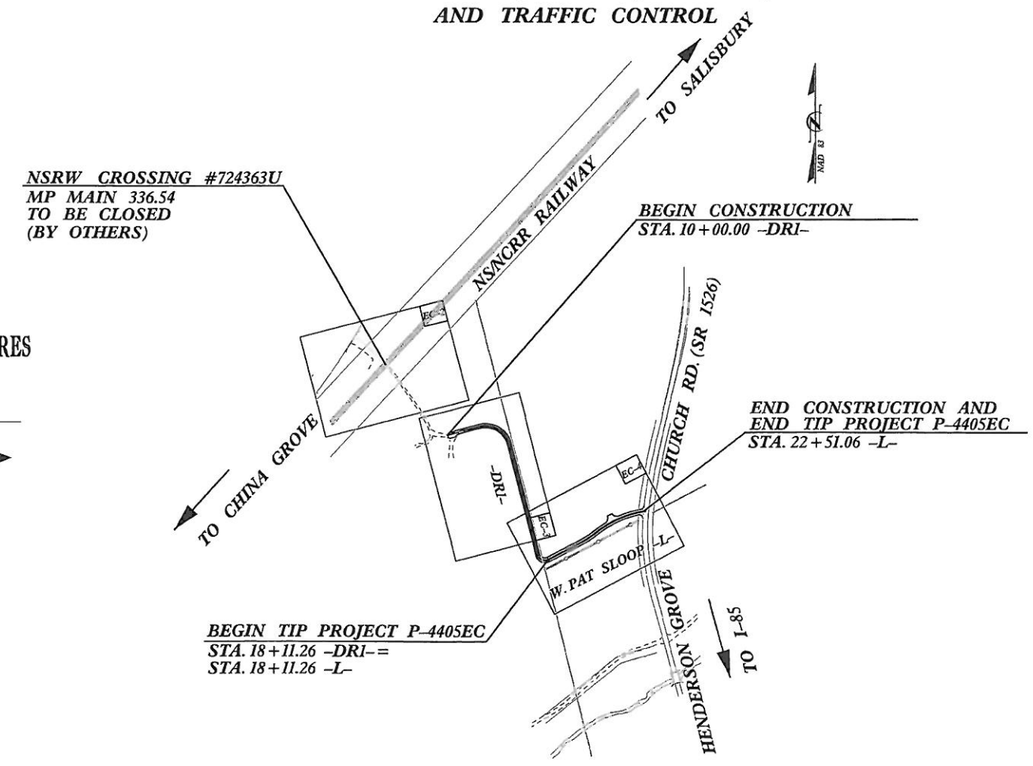
STATE OF NORTH CAROLINA
RAIL DIVISION

PLAN FOR PROPOSED
ROADWAY EROSION CONTROL

ROWAN COUNTY

LOCATION: W. PAT SLOOP @ NS/NCRR RAILWAY CROSSING NO. 724363U
PRIVATE CROSSING CLOSURE &
CONSTRUCTION OF ACCESS ROAD / DRIVEWAY

TYPE OF WORK: PAVING, GRADING, DRAINAGE, PAVEMENT MARKINGS
AND TRAFFIC CONTROL



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1633.02	Temporary Rock Silt Check Type B	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

DISTURBED AREA
0.90 AC

GRAPHIC SCALES

20 10 0 20 40
PLANS

20 10 0 20 40
PROFILE (HORIZONTAL)

4 2 0 4 8
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
RAIL DIVISION
STATE OF NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 040268 ENGINEER CHRISTOPHER J. EASTERLY 6-10-13

Prepared In the Office of:

Gannett Fleming

GANNETT FLEMING, INC.
301 S. McDOWELL STREET, SUITE 1008
CHARLOTTE, NORTH CAROLINA 28204-2644
PHONE: 704-375-2438 FAX: 704-332-9361
GF PROJECT NO. - 053175.100

2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 17, 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

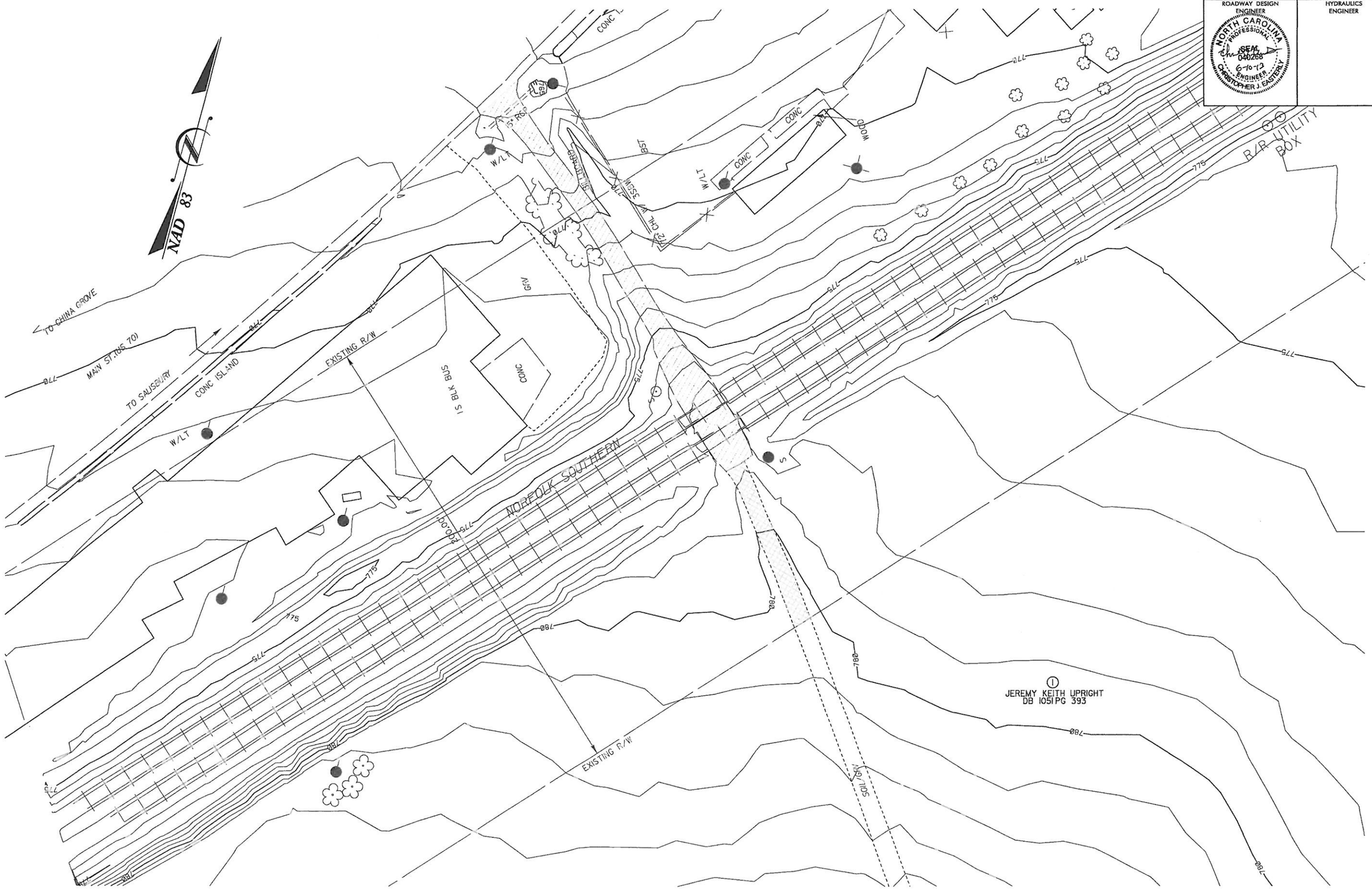
1605.01 Temporary Silt Fence

1633.02 Temporary Rock Silt Check Type B

6/19/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_ec_tsh.dgn
default

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 040268 ENGINEER CHRISTOPHER J EASTERLY 6-10-13

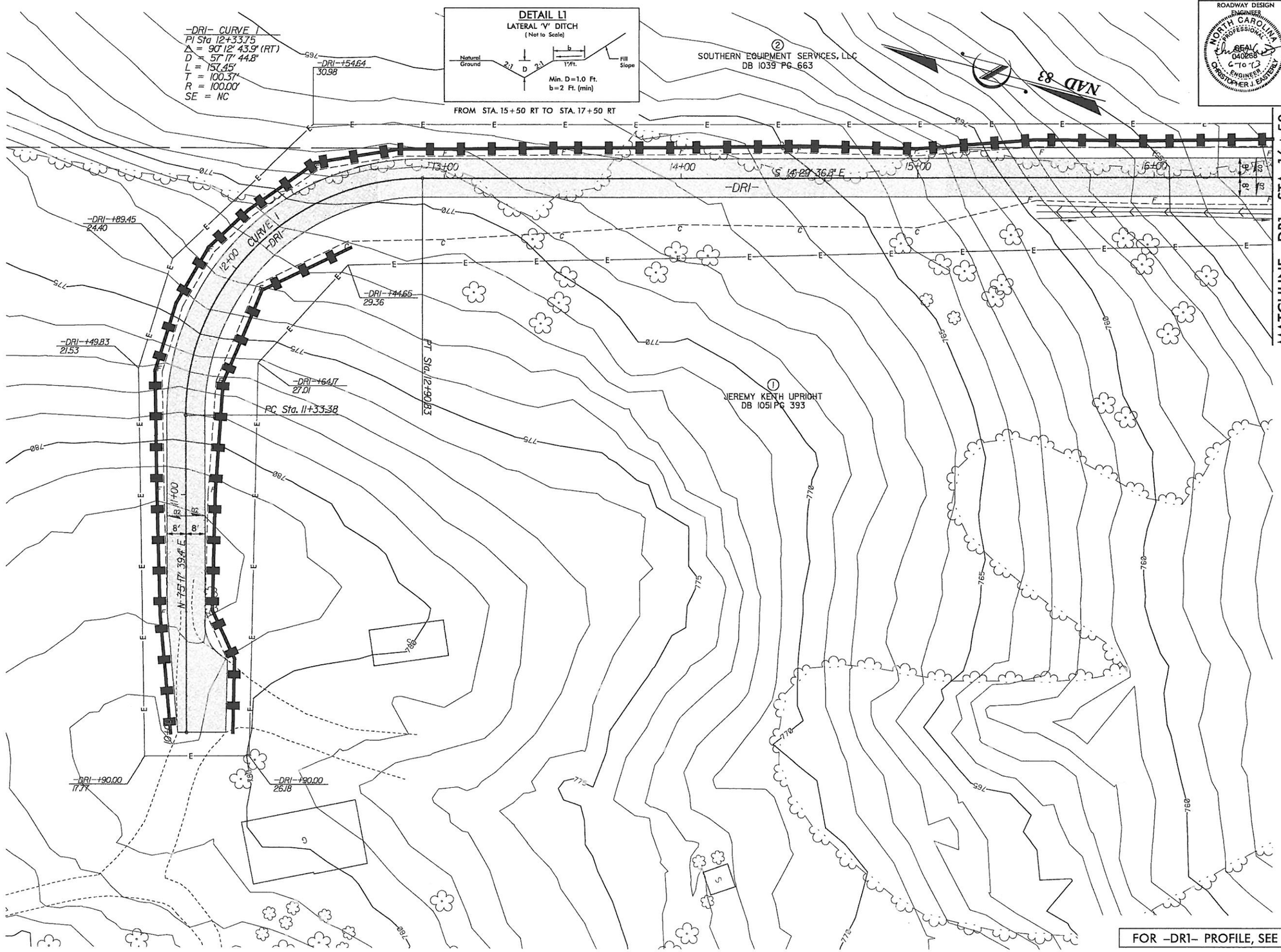


REVISIONS

8/17/99

6/10/2013
R:\5317\5600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_ec2.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	EC-3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -DR1- STA. 16+50
SEE SHEET 6

FOR -DR1- PROFILE, SEE SHEET NO. 7

REVISIONS

8/17/99

6/10/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_ec3.dgn

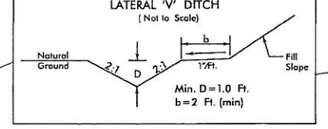
PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	EC-4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 040268 ENGINEER CHRISTOPHER J. EASTERLY 6-10-13

DETAIL L1

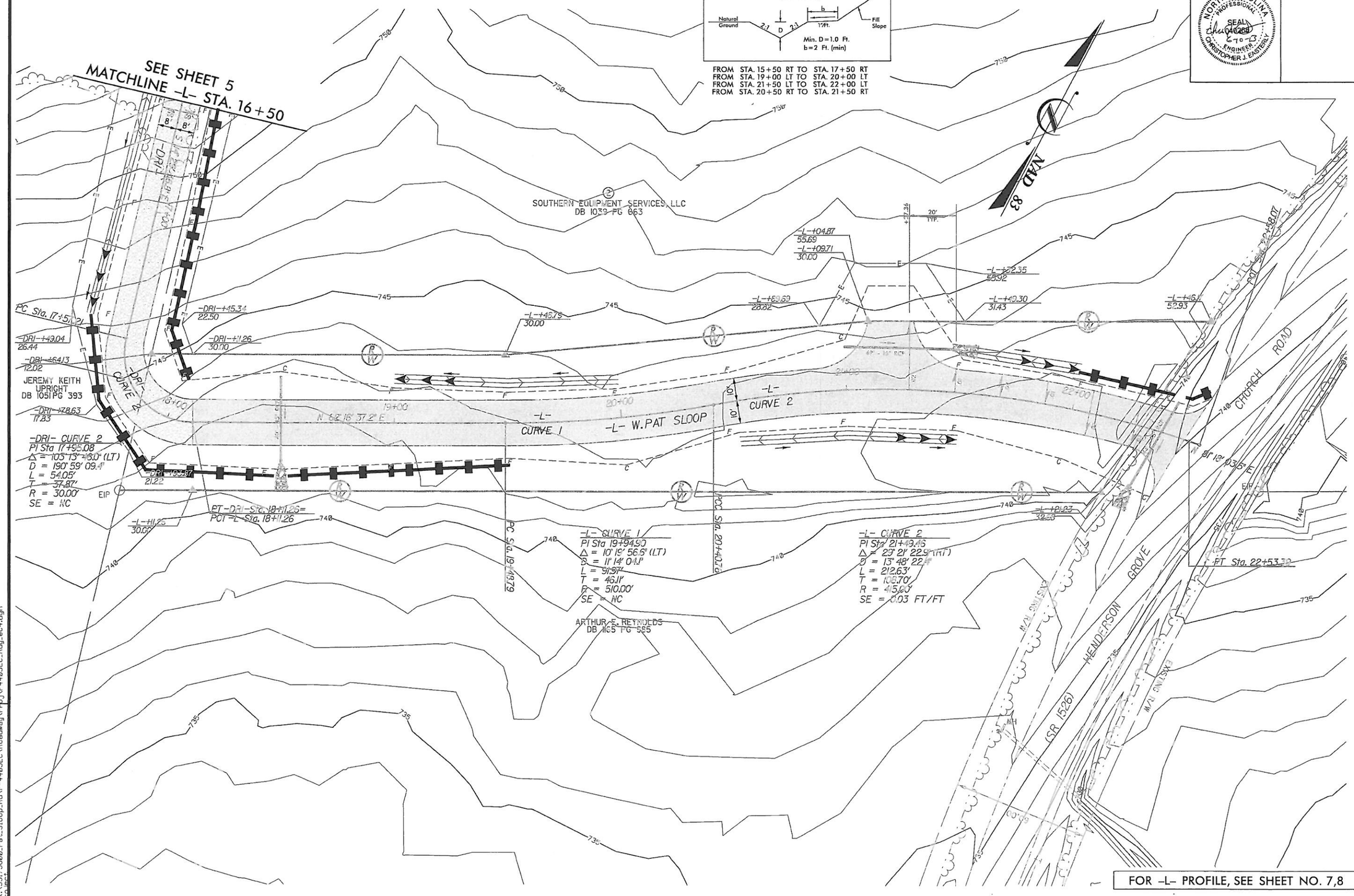
LATERAL 'V' DITCH

(Not to Scale)



Min. D = 1.0 Ft.
b = 2 Ft. (min)

FROM STA. 15+50 RT TO STA. 17+50 RT
FROM STA. 19+00 LT TO STA. 20+00 LT
FROM STA. 21+50 LT TO STA. 22+00 LT
FROM STA. 20+50 RT TO STA. 21+50 RT



FOR -L- PROFILE, SEE SHEET NO. 7,8

REVISIONS

8/17/99

6/19/2013
R:\531\5600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_ec4.dgn

STATE PROJECT REFERENCE NO.	SHEET NO.
P-4405EC	TCP-1

STATE OF NORTH CAROLINA
RAIL DIVISION

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

ROWAN COUNTY

P-4405EC

TIP PROJECT:

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1145.01	BARRICADES - TYPE III
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS

PROJECT PHASING

STEP 1	INSTALL ALL SIGNAGE.
STEP 2	CONSTRUCT IMPROVEMENTS UP TO AND INCLUDING THE FINAL SURFACE COURSE FOR -DR1-,-L- STA. 10+00.00 TO 22+51.06.
STEP 3	REMOVE PAVEMENT WITHIN RAILROAD R/W (SEE PLAN).
STEP 4	REMOVE SIGNS. OPEN W. PAT SLOOP FOR 2-LANE, 2-WAY TRAFFIC.

PAVEMENT MARKING SCHEDULE

DESCRIPTION	PAY ITEM	TOTAL QUANTITY
WHITE EDGELINE	THERMOPLASTIC (4")	880 LF
YELLOW DOUBLE CENTERLINE	THERMOPLASTIC (4")	440 LF
WHITE STOP BAR	THERMOPLASTIC (24")	10 LF

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, PROJECT PHASING, PAVEMENT MARKING SCHEDULE, INDEX OF SHEETS, GENERAL NOTES AND LEGEND
TCP-2	SIGNING AND FINAL PAVEMENT MARKINGS

GENERAL NOTES

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

A) ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE STANDARD DRAWINGS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES.

B) NOTIFY ENGINEER 21 CALENDER DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATIONS.

C) PROVIDE CLOSURE SIGNING OFF THE PROJECT LIMITS.

D) ENSURE ALL NECESSSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

E) PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGN R11-2 OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.

F) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES

G) THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO ALL PROPERTIES DURING CONSTRUCTION.

H) THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL INTERSECTING STREETS UNLESS OTHERWISE NOTED IN THE TRAFFIC CONTROL PLANS OR DIRECTED BY THE ENGINEER.

LEGEND

GENERAL

NORTH ARROW

TRAFFIC CONTROL DEVICES

TYPE III BARRICADE

APPROVED:
DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 040260 ENGINEER CHRISTOPHER J. EASTERLY 6-16-13

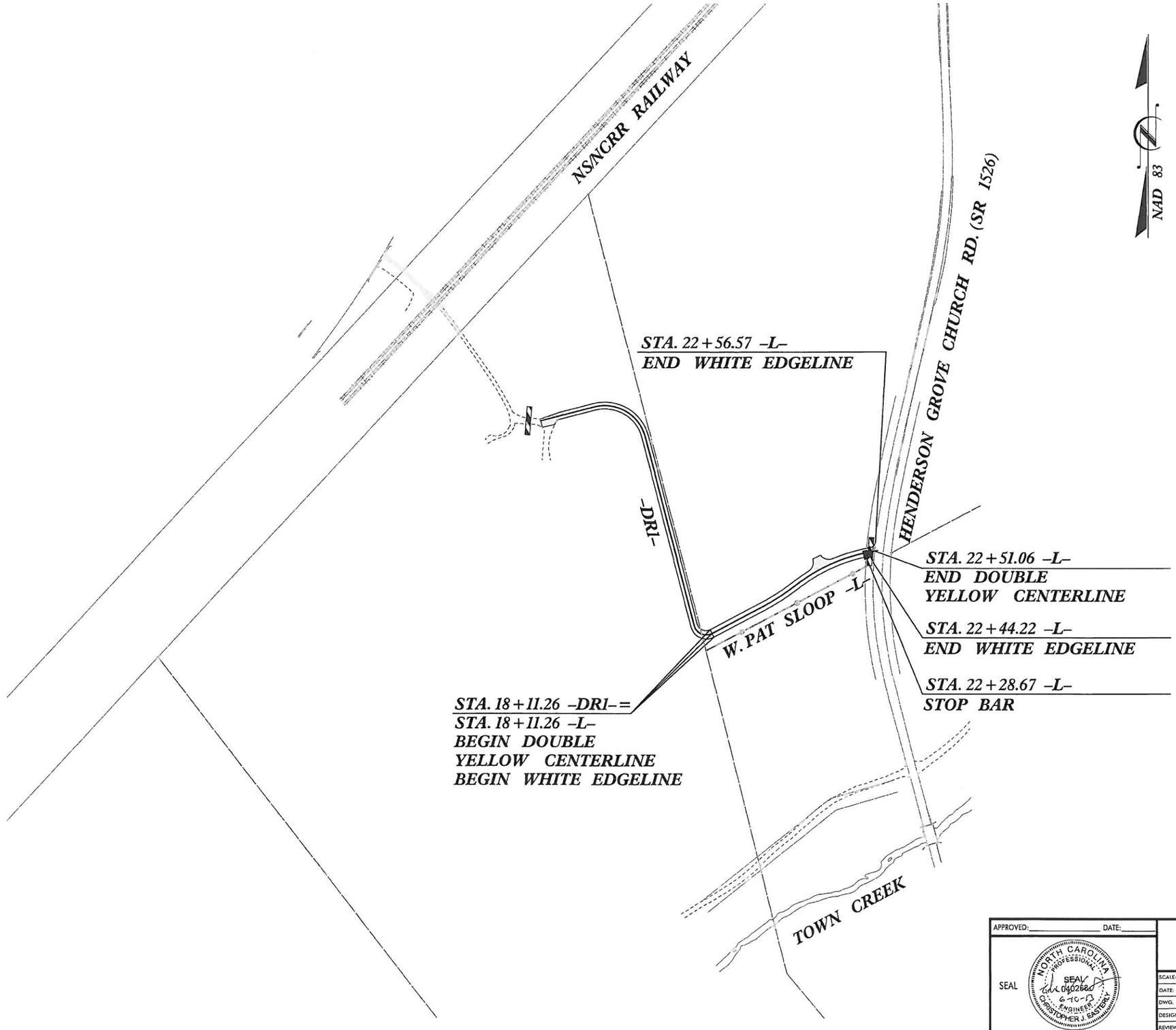
Prepared In the Office of: Gannett Fleming

GANNETT FLEMING, INC.
301 S. MCDOWELL STREET, SUITE 1000
CHARLOTTE, NORTH CAROLINA 28204-2644
PHONE: 704-375-2430 FAX: 704-332-9361

ALLISON C. JOHNSON, P.E. TRAFFIC CONTROL PROJECT ENGINEER
WILLIAM T. WENTZIEN II, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER

6/19/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_tcpl.dgn
roject

PROJ. REFERENCE NO.	SHEET NO.
P-4405EC	TCP-2



APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 040268 ENGINEER CHRISTOPHER J. EASTERLY 6-10-13

SIGNING AND
FINAL PAVEMENT MARKINGS

SCALE:	NONE
DATE:	-
DWG. BY:	CJE
DESIGN BY:	CJE
REVIEWED BY:	WTW

Gannett Fleming

GANNETT FLEMING, INC.
301 S. MCDOWELL STREET SUITE 1000
CHARLOTTE, NORTH CAROLINA 28204-2644
PHONE: 704-375-2438 FAX: 704-332-9361

REVISIONS

CADD FILE

6/19/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_tcp2.dgn
Project

PROJ. REFERENCE NO.	SHEET NO.
P-4405EC	X-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CROSS-SECTION SUMMARY

Station - DR1 -	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
11+00.000	0	0
11+50.000	8	16
12+00.000	0	32
12+50.000	12	24
13+00.000	63	8
13+50.000	80	0
14+00.000	46	0
14+50.000	34	2
15+00.000	41	1
15+50.000	25	14
16+00.000	0	28
16+50.000	0	40
17+00.000	0	73
17+50.000	0	108
18+00.000	0	170
SUBTOTAL -DR1-	**309**	**516**

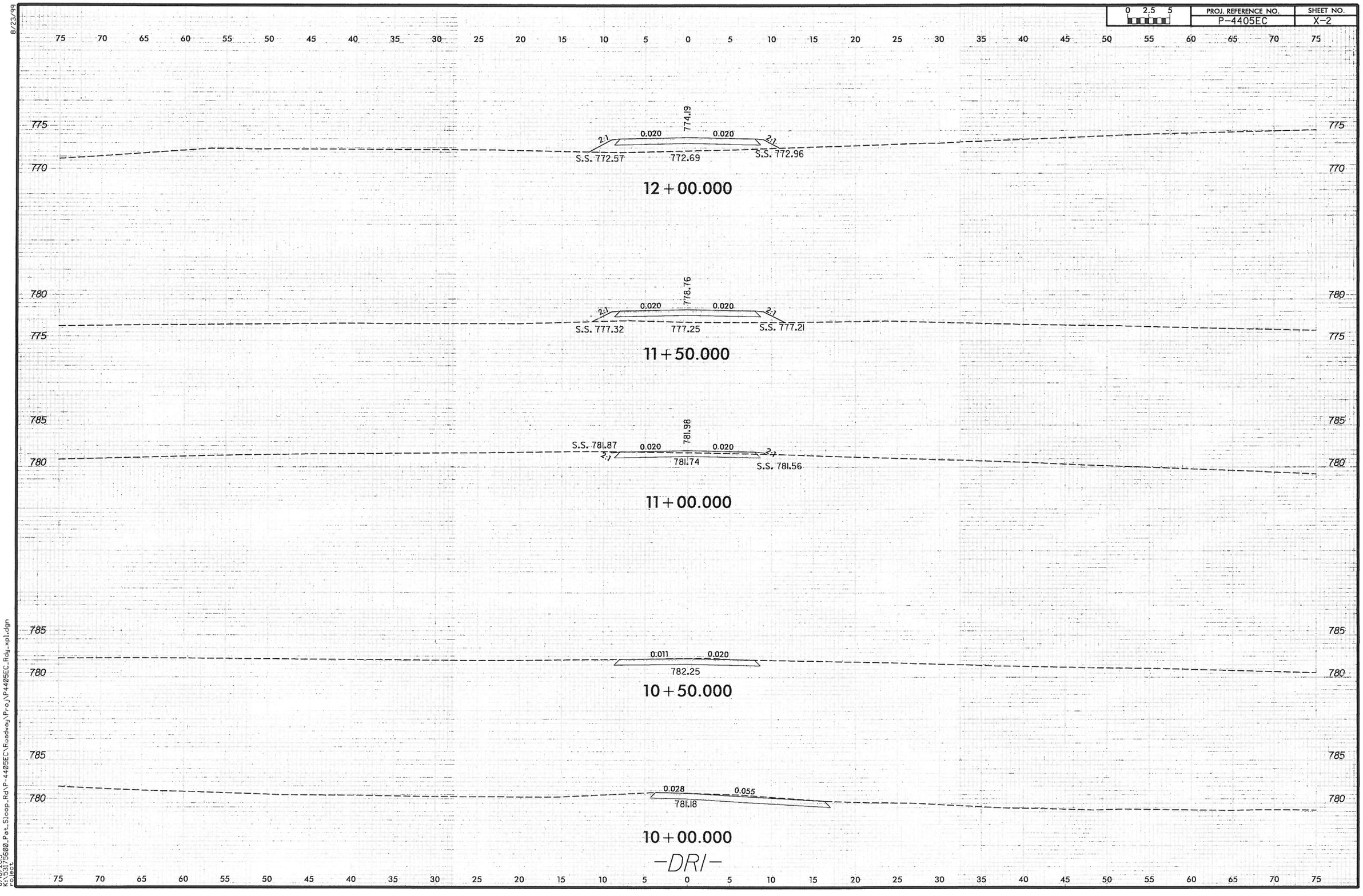
Station -L-	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
18+50.000	0	249
19+00.000	0	327
19+50.000	0	74
20+00.000	11	20
20+50.000	11	12
21+00.000	2	39
21+50.000	2	65
22+00.000	7	43
22+50.000	17	8
SUBTOTAL -L-	**50**	**837**
GRAND TOTAL	**359**	**1353**
SAY	**400**	**1400**

Approximate quantities only. Unclassified excavation, borrow excavation, shoulder borrow, fine grading, clearing and grubbing, breaking of existing pavement and removal of existing pavement will be paid for at the lump sum price for "Grading".

8/23/99
5/10/2013
R:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_xpl.dgn
Project

8/23/99

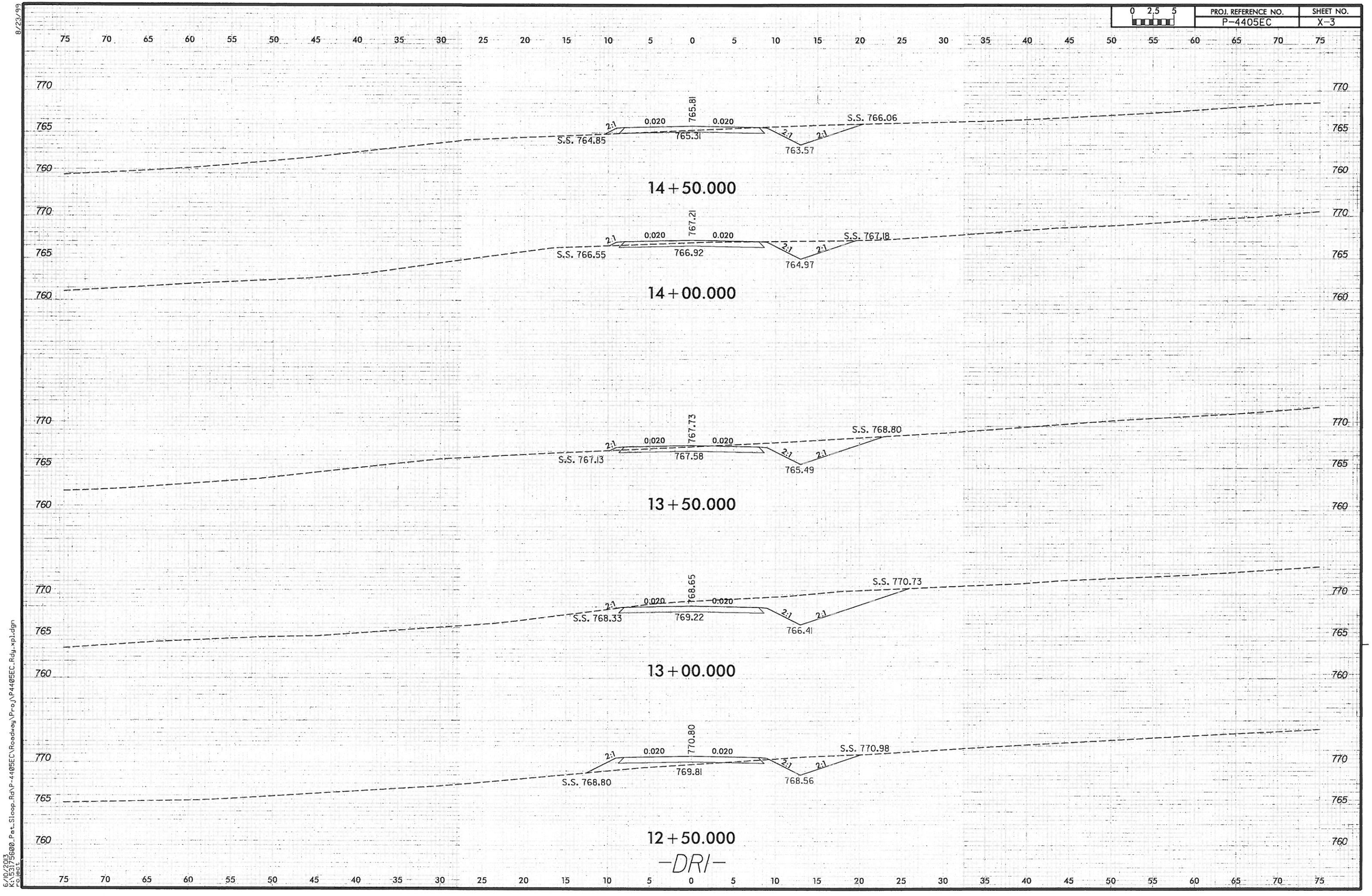
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405EC	X-2



6/10/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_xp1.dgn
project

PROJ. REFERENCE NO.	SHEET NO.
P-4405EC	X-3

0 2.5 5

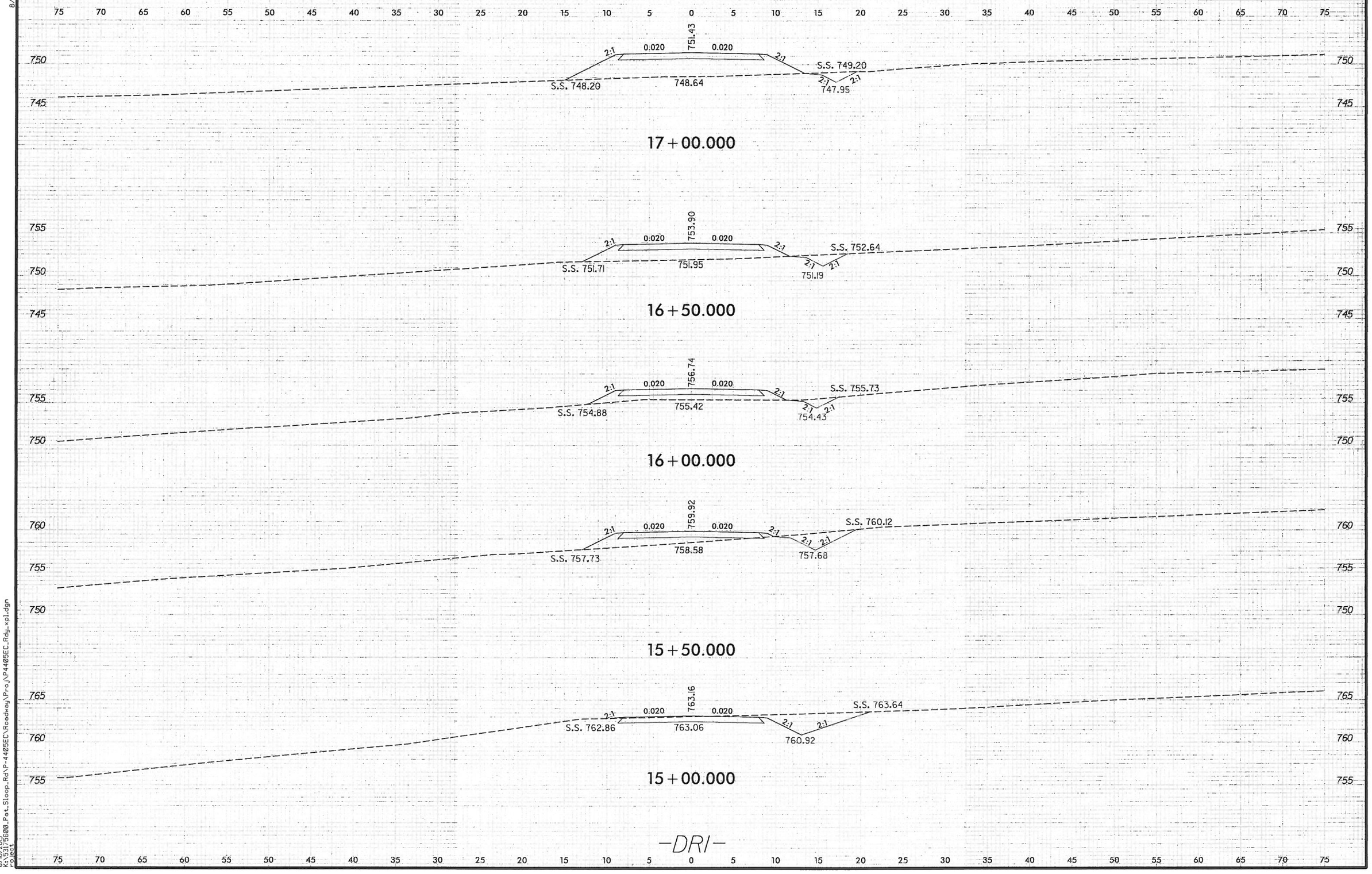


8/23/99

6/10/2013
K:\53175600_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_xpl.dgn
rolect

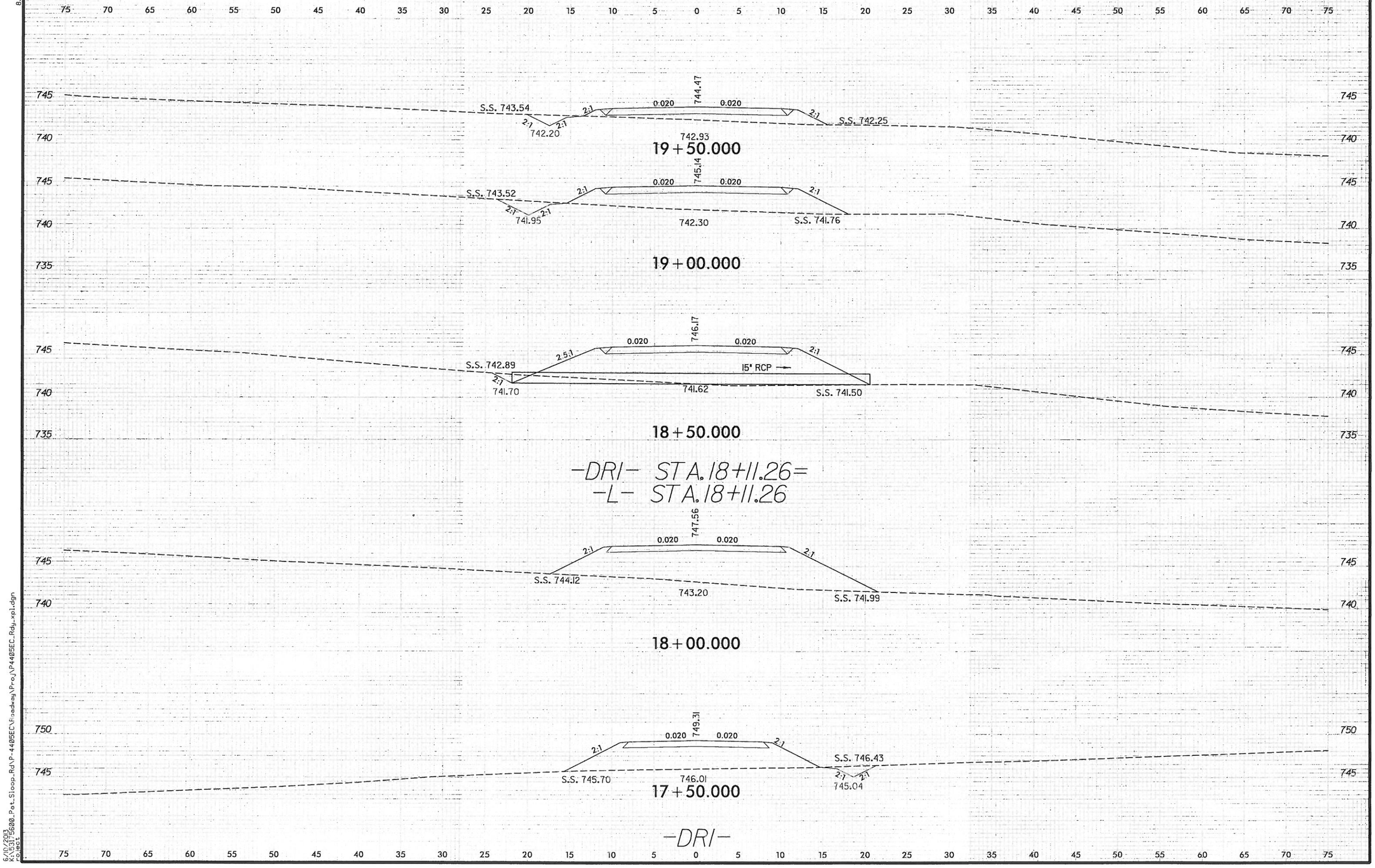
8/23/99

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405EC	X-4



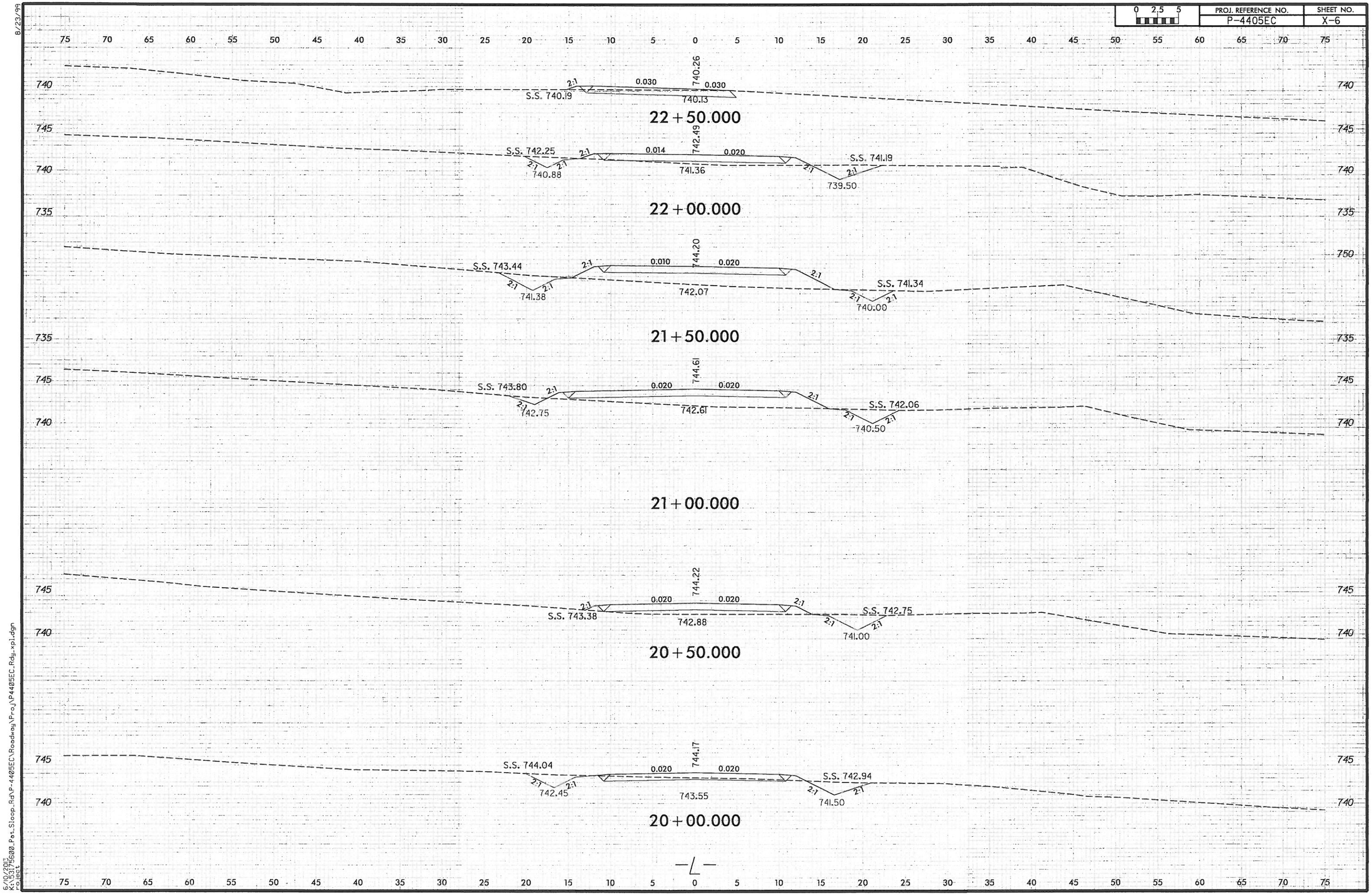
6/10/2003
K:\531\5600_Pat. Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_xpl.dgn
Project

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405EC	X-5



8/23/99

6/10/2013
K:\5317\5608_Pat_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_xpl.dgn
rolect



8/23/99
6/10/2013
K:\53175600_Pot_Sloop_Rd\P-4405EC\Roadway\Proj\P4405EC_Rdy_xpl.dgn
Project