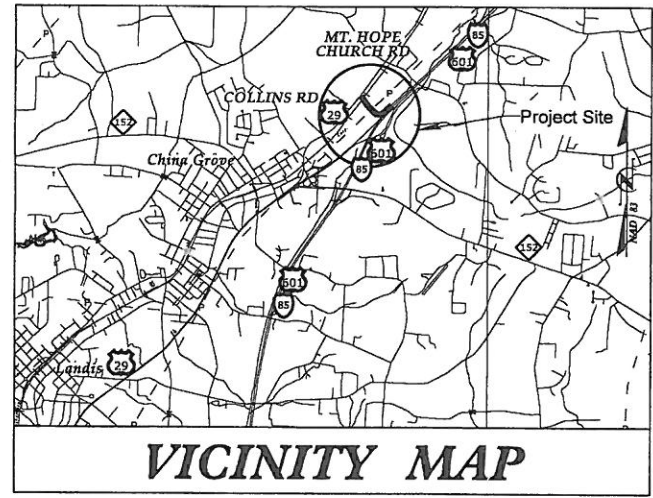


09/26/13

5/29/2013 K:\53175100.Ethel_Juke_Box\p-4405A\Roadway\Proj\p4405A_Rdy.tsh.dgn

TIP PROJECT: P-4405A
CONTRACT: 42412.3.12

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

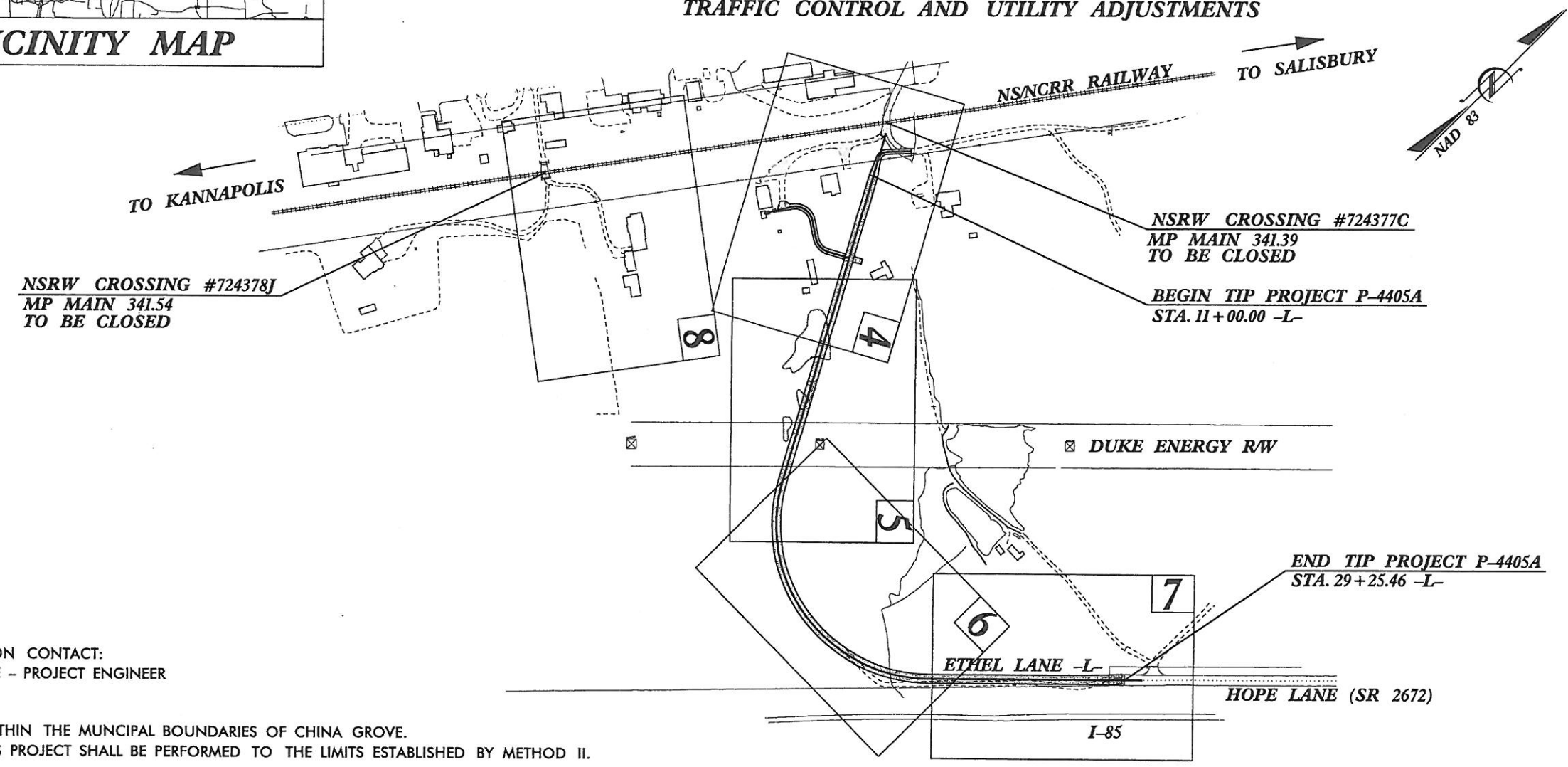


STATE OF NORTH CAROLINA
RAIL DIVISION
ROWAN COUNTY

LOCATION: **ETHEL LANE @ NSNCRR RAILWAY CROSSING NO. 724377C/
JUKE BOX ROAD @ NSNCRR RAILWAY CROSSING NO. 724378J
PRIVATE CROSSING CLOSURE**

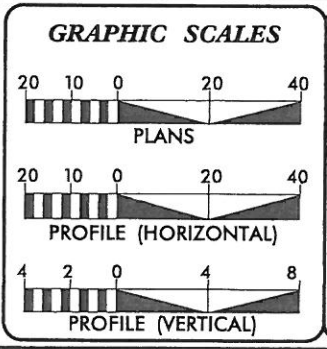
TYPE OF WORK: **PAVING, GRADING, DRAINAGE, PAVEMENT MARKINGS,
TRAFFIC CONTROL AND UTILITY ADJUSTMENTS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	P-4405A	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42412.1.2	STP-0005(513)	PE	
42412.2.1	STP-0005(513)	RAW & UTILITY	
42412.3.12	STP-0005(513)	CONST	



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

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF CHINA GROVE.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.



DESIGN DATA	
ADT NA	= NA
ADT NA	= NA
DHV	= NA
D	= NA
T	= NA *
V	= 35 MPH
* TTST	= NA DUAL NA
FUNC CLASS	= RURAL LOCAL

PROJECT LENGTH	
LENGTH ROADWAY TIP PROJECT P-4405A	= 0.35 MILES
TOTAL LENGTH TIP PROJECT P-4405A	= 0.35 MILES

Prepared for NCDOT In the Office of:

Gannett Fleming
GANNETT FLEMING, INC.
301 S. McDOWELL STREET, SUITE 1000
CHARLOTTE, NORTH CAROLINA 28204-2444
PHONE: 704-375-3438 FAX: 704-332-9360
GF PROJECT NO. - 65175.100

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 19, 2011

LETTING DATE:
JUNE 26, 2013

ALLISON C. JOHNSON, P.E.
PROJECT ENGINEER

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

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

P.E.
STATE HIGHWAY DESIGN ENGINEER

5/14/99

STATE OF NORTH CAROLINA
RAIL DIVISION

PROJECT REFERENCE NO.		SHEET NO.
P-4405A		1-A
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	



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 - 8	PLAN SHEETS
9 - 11	PROFILE SHEETS
TCP-1 AND TCP-2	TRAFFIC CONTROL PLANS
EC-1 THRU EC-6	EROSION CONTROL PLANS
X-1 THRU X-11	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.

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

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 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
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
1630.02	Silt Basin Type B
1633.02	Temporary Rock Silt Check Type B

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
RAIL DIVISION

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

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	

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Swamp Marsh	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
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	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Permanent Easement with Iron Pin and Cap Marker	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Wheel Chair Ramp	
Proposed Wheel Chair Ramp Curb Cut	
Curb Cut for Future Wheel Chair Ramp	

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	

EXISTING STRUCTURES:

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:

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:

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:

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:

Gas Valve	
Gas Meter	
Recorded U/G Gas Line	
Designated U/G Gas Line (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

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:

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

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



6/2/09
5/29/2013
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SURVEY CONTROL SHEET P-4405A

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

GPS Calibration Report

Project : P3414PZ
TIP Number P3414P
User name tbovender
Coordinate System US State Plane 1983(at ground)
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
Date & Time 6:15:58 AM 3/30/2009
Zone North Carolina 3200

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.

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 7_GPS	Northing	671818.705sft	Point Z	Northing	671818.704sft
Latitude 35°35'09.53698"N	Easting	1537734.212sft	Easting	1537734.209sft	
Longitude 80°33'17.47492"W	Elevation	819.297sft	Elevation	819.296sft	
Height 717.552sft	Horz error	0.003sft	Utilized	Horz and Vert	
	Vert error	0.000sft	Quality	Adjusted quality	
	3D error	0.003sft			

Point 8_GPS	Northing	671099.900sft	Point 8	Northing	671099.899sft
Latitude 35°35'02.36289"N	Easting	1537305.744sft	Easting	1537305.742sft	
Longitude 80°33'22.52512"W	Elevation	828.358sft	Elevation	828.358sft	
Height 726.624sft	Horz error	0.003sft	Utilized	Horz and Vert	
	Vert error	0.000sft	Quality	Adjusted quality	
	3D error	0.003sft			

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "P3414P-10"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 666744.654(±) EASTING: 1531939.796(±)
ELEVATION: 821.60(±)
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 -L- STATION 10+00.00 IS
N 49°35'22.9" E 7594.22'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

BL	POINT	DESC.	NORTH	EAST	ELEVATION	-L- STATION	OFFSET
7		GPS P3414P-7	671818.7040	1537734.2090	819.30	24+76.54	1338.52 LT
39		BL -39	671647.2040	1537706.1710	820.83	10+10.20	23.90 RT
8		GPS P3414P-8	671099.8990	1537305.7420	828.36	12+96.78	638.52 RT

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/](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
ARRA-RAIL-08_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.

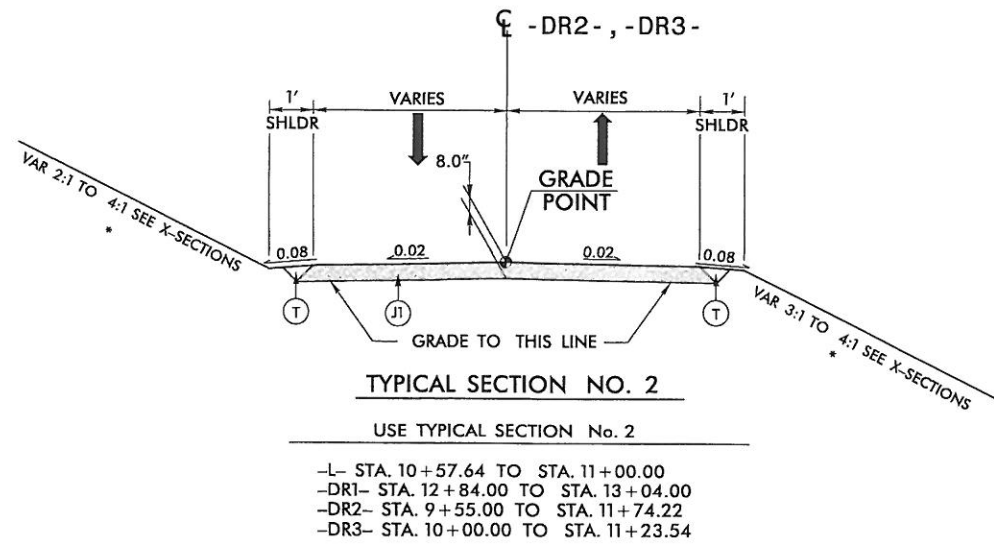
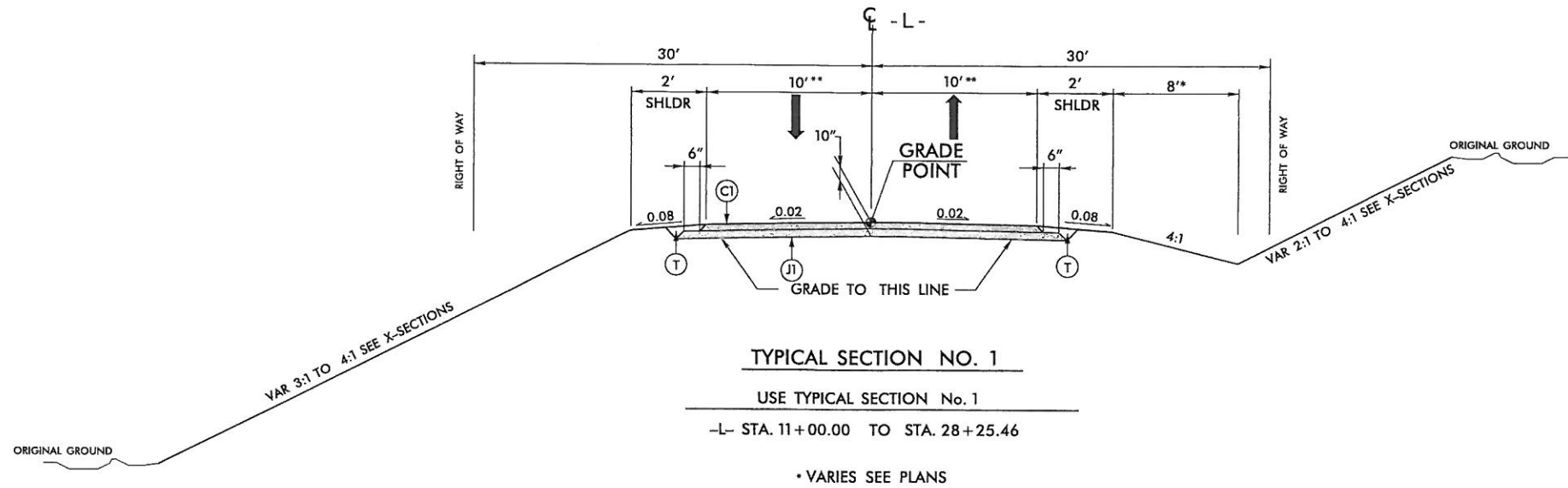
NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION

SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

NOTE: DRAWING NOT TO SCALE

6/2/99

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



PAVEMENT SCHEDULE	
ITEM	DESCRIPTION
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, 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

RIGHT OF WAY AREA DATA

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".

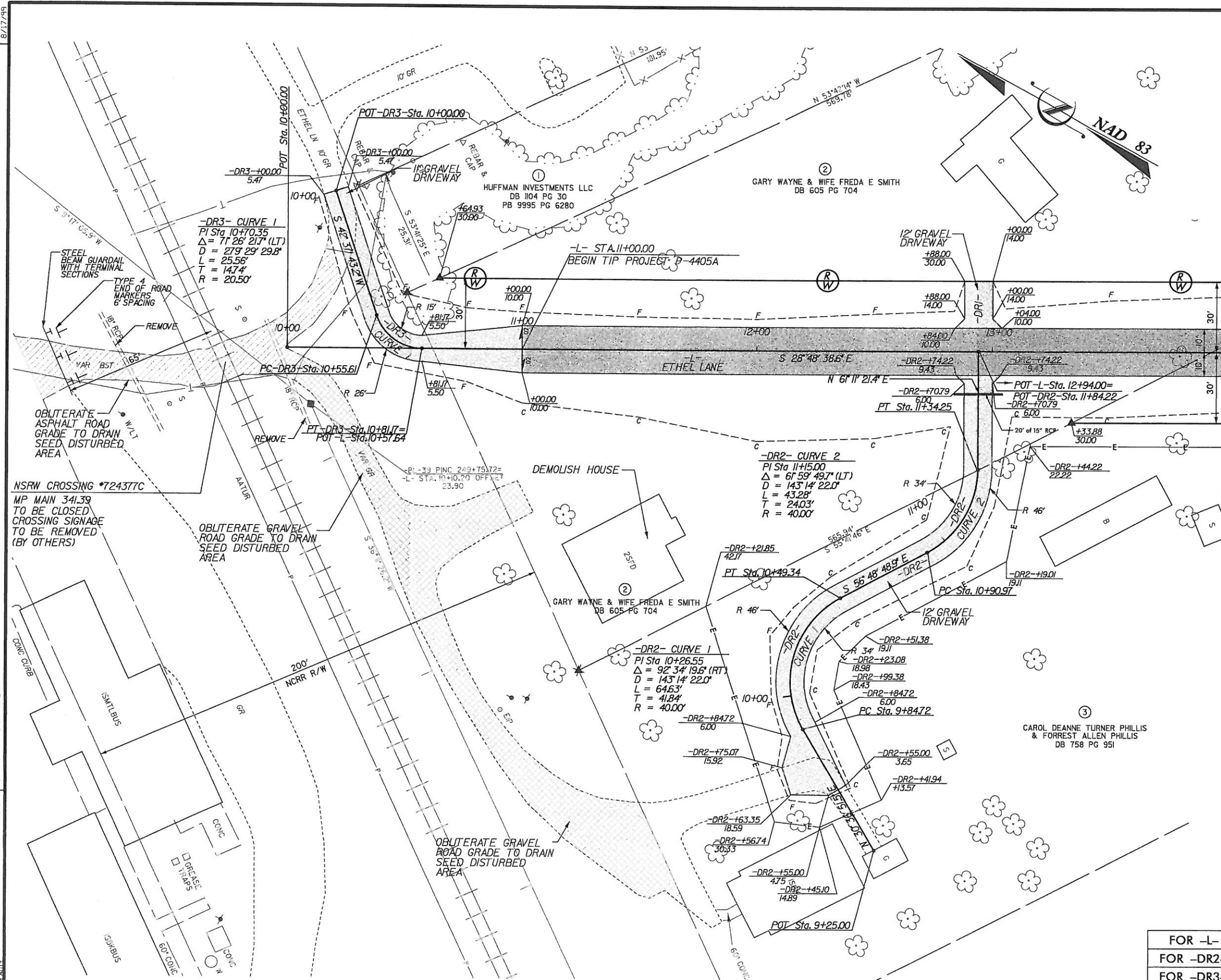
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

PROJECT REFERENCE NO.	SHEET NO.
P-4405A	3
ROADWAY DESIGN ENGINEER	PAYMENT DESIGN ENGINEER

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	2	AC
0004300000-N	226	GRADING	1	LS
0196000000-E	270	FABRIC FOR SOIL STABILIZATION	600	SY
0057000000-E	226	UNDERCUT EXCAVATION	400	CY
0134000000-E	240	DRAINAGE DITCH EXCAVATION	400	CY
0314000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	40	TON
0343000000-E	310	15" SIDE DRAIN PIPE	20	LF
0384000000-E	310	30" RC PIPE CULVERTS, CLASS III	75	LF
0985000000-E	340	PIPE REMOVAL	150	LF
1121000000-E	520	AGGREGATE BASE COURSE	2,500	TON
1220000000-E	545	INCIDENTAL STONE BASE	50	TON
1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	930	TON
1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	60	TON
3030000000-E	862	STEEL BEAM GUARDRAIL	60	LF
	862	TERMINAL END SHOES	4	EA
3569000000-E	867	BARB WIRE FENCE RESET	100	LF
3574000000-E	867	GENERIC FENCING ITEM	100	LF
3649000000-E	876	RIP RAP, CLASS B	20	TON
3656000000-E	876	GEOTEXTILE FOR DRAINAGE	45	SY
4399000000-N	1105	TEMPORARY TRAFFIC CONTROL	1	LS
4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES	5,500	LF
6000000000-E	1605	TEMPORARY SILT FENCE	1,600	LF
6006000000-E	1610	EROSION CONTROL STONE - CLASS A	125	TN
6009000000-E	1610	EROSION CONTROL STONE - CLASS B	175	TN
6012000000-E	1610	SEDIMENT CONTROL STONE	100	TN
6030000000-E	1630	SILT EXCAVATION	200	CY
6071020000-E	SP	POLYACRYLAMIDE-PAM	35	LB
6071010000-E	SP	WATTLE	120	LF
6036000000-E	1631	EROSION CONTROL MATTING	2,500	SY
6084000000-E	1660	SEEDING & MULCHING	1	AC
4955000000-N	1264	OBJECT MARKERS (TYPE 4)	6	EA
6117000000-N	SP	SUPPLEMENTAL RESPONSE FOR EROSION CONTROL	5	EA

PROJECT REFERENCE NO.		SHEET NO.	
P-4405A		4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL	

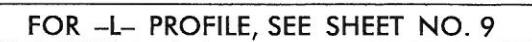


MATCHLINE -L- STA. 14+00
SEE SHEET 5

FOR -L- PROFILE, SEE SHEET NO. 9
 FOR -DR2- PROFILE, SEE SHEET NO. 11
 FOR -DR3- PROFILE, SEE SHEET NO. 11

REVISIONS

8/17/99
5/29/2013
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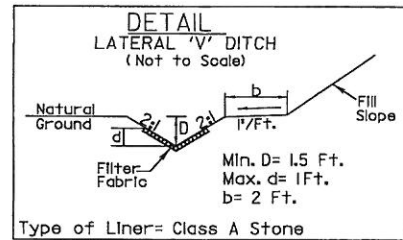


5/29/2013
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8/17/99

8/17/99

REVISIONS

S:\23\231008\Ethel\Juke Box\VP-4405A\Roadway\Plan\4405A_Plan.psd.dgn



FROM STA. 18+00 RT TO STA. 23+50 RT
FROM STA. 21+50 LT TO STA. 23+50 LT
FROM STA. 24+50 LT TO STA. 25+50 LT

③
CAROL DEANNE TURNER PHILLIS
& FORREST ALLEN PHILLIS
DB 758 PG 951

⑥
LINDA SUE BRINKLEY
DB 1027 PG 724

-L- CURVE 1
PI Sta 22+88.95
 $\Delta = 105^\circ 54' 04.5''$ (LT)
D = 16' 22" 12.8"
L = 646.91'
T = 463.63'
R = 350.00'
SE = .06 FT/FT

⑥
LINDA SUE BRINKLEY
DB 1027 PG 724

CLASS "B" STONE
EST. 8 TONS
EST. 21 S.Y. F.F.

CLASS "B" STONE
EST. 12 TONS
EST. 30 S.Y. F.F.

FOR -L- PROFILE, SEE SHEET NO. 9, 10

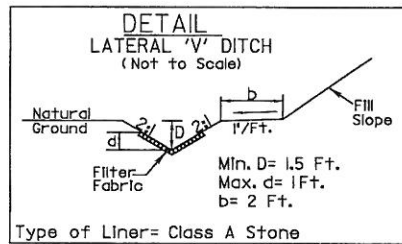
PROJECT REFERENCE NO.	SHEET NO.
P-4405A	6
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

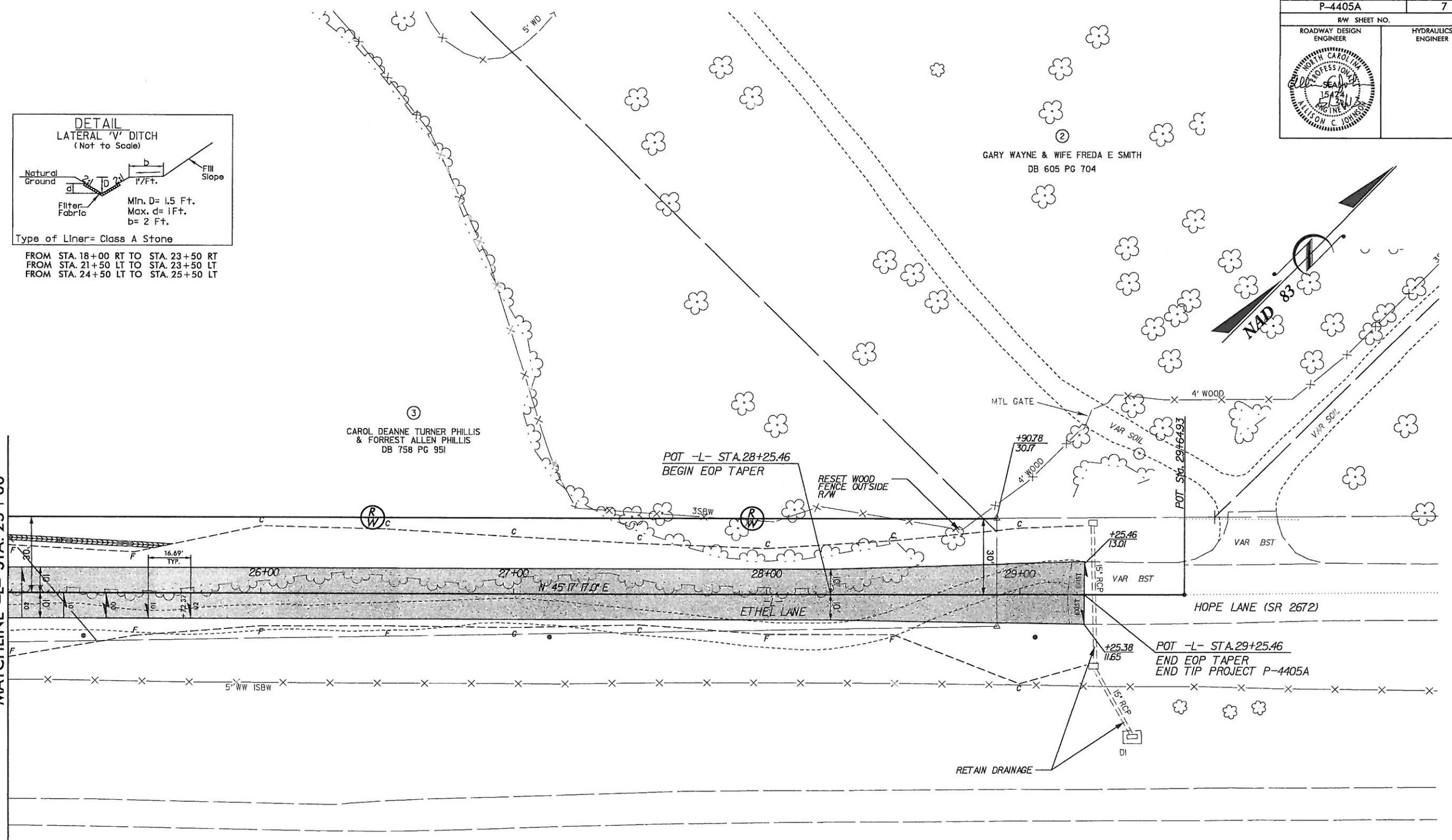
REVISIONS

5/23/2011
S:\000.Ethel.Luke Box\4405A\Roadway\4405A.Rdy.pst7.dgn

SEE SHEET 6
MATCHLINE -L- STA. 25+00



FROM STA. 18+00 RT TO STA. 23+50 RT
FROM STA. 21+50 LT TO STA. 23+50 LT
FROM STA. 24+50 LT TO STA. 25+50 LT



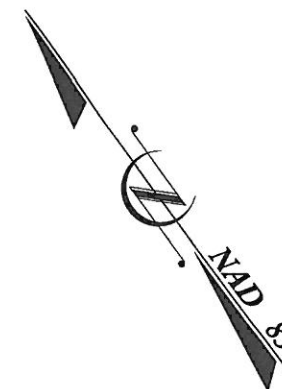
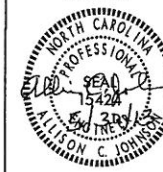
PROJECT REFERENCE NO.	SHEET NO.
P-4405A	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

T. J. JOHNSON, C. JOHNSON

GARY WAYNE & WIFE FREDA E SMITH
DB 605 PG 704

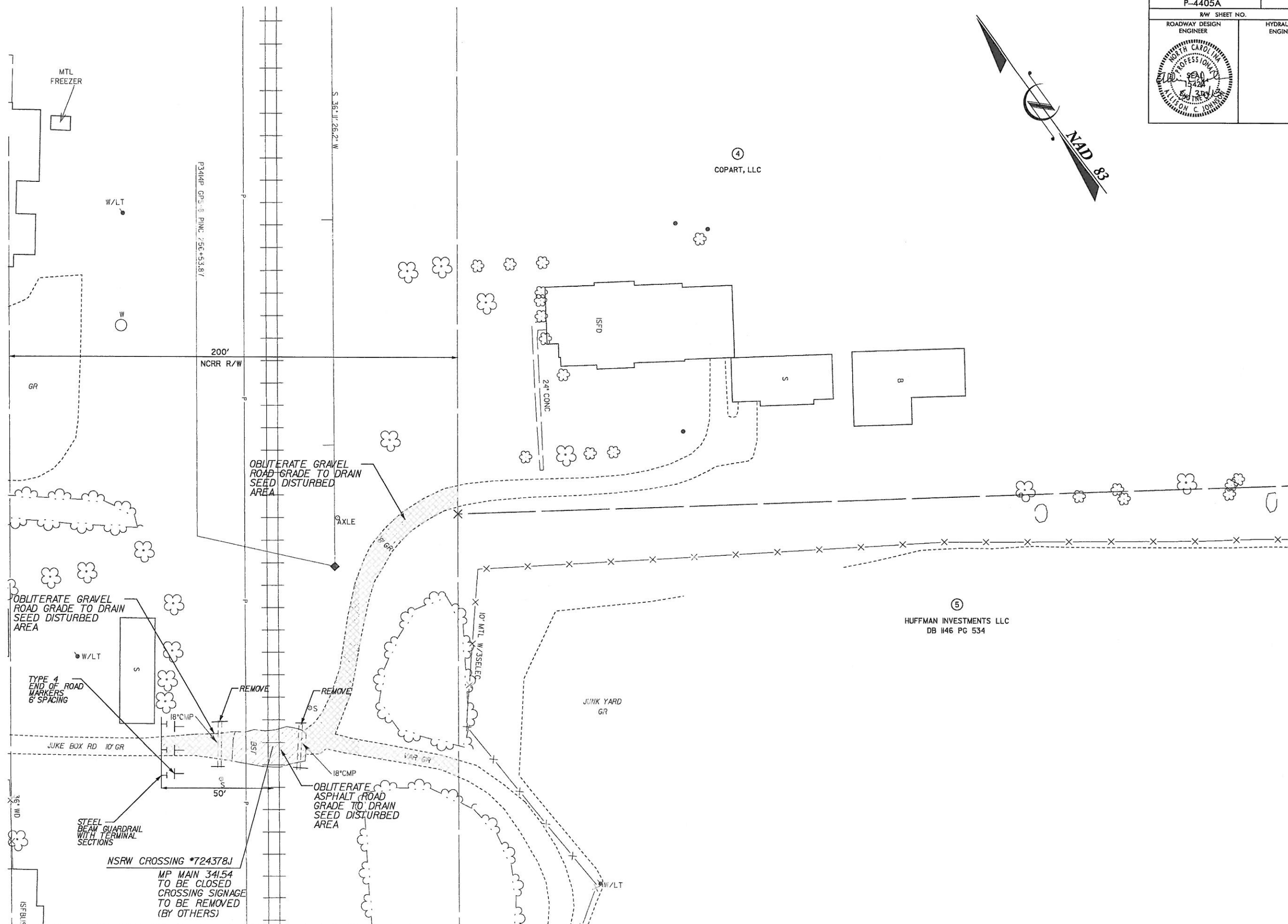
FOR -L- PROFILE, SEE SHEET NO. 10

PROJECT REFERENCE NO.	SHEET NO.
P-4405A	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



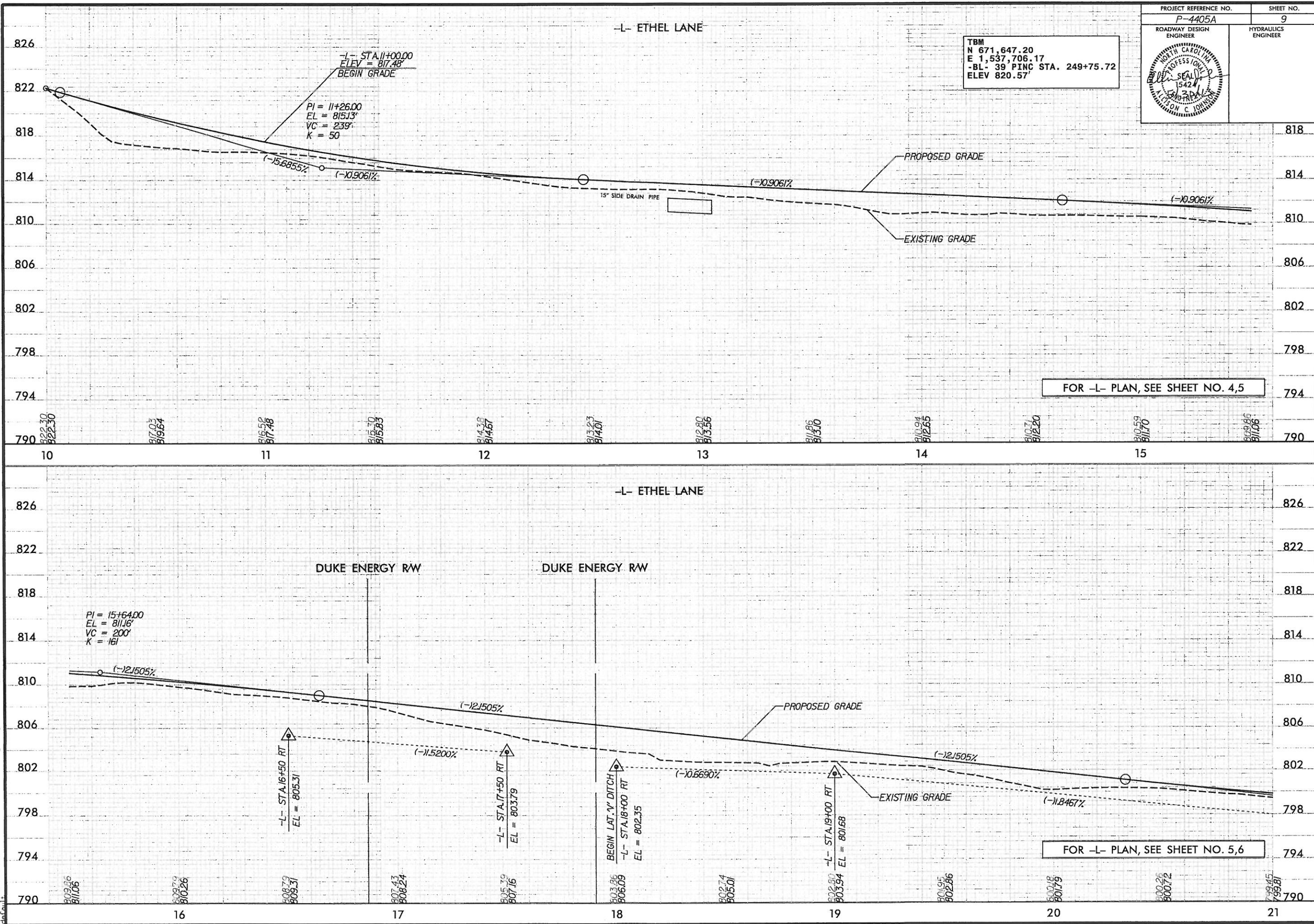
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REVISIONS



5/28/99

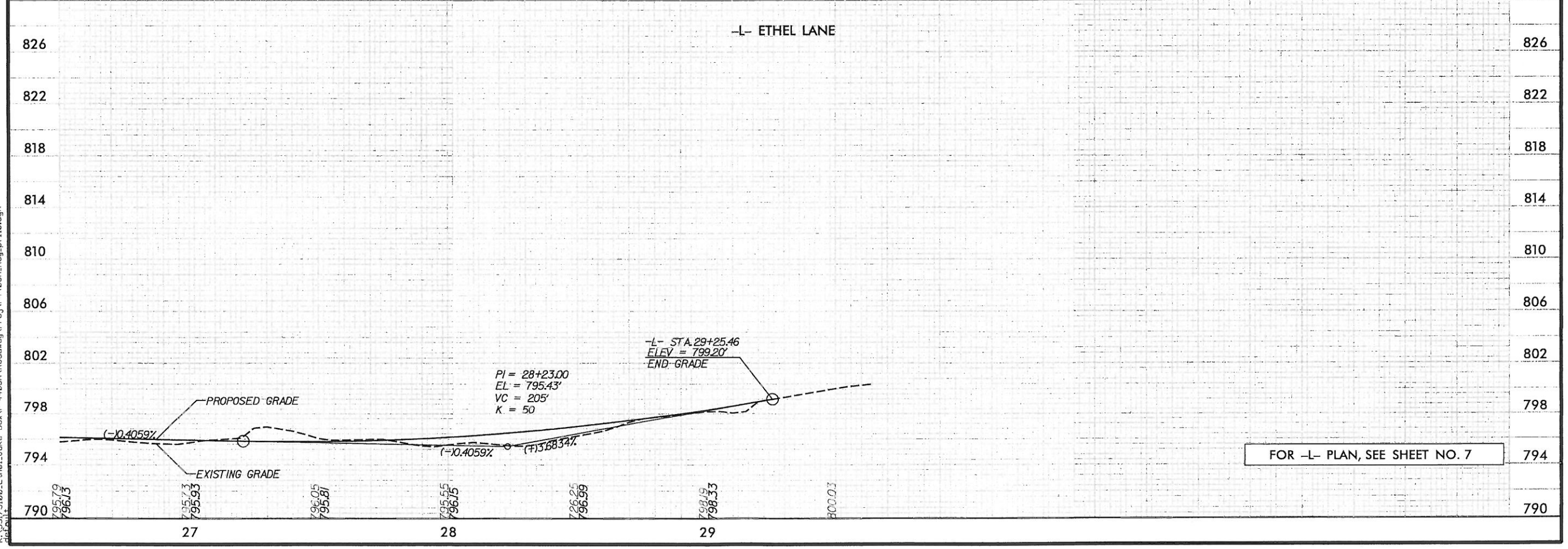
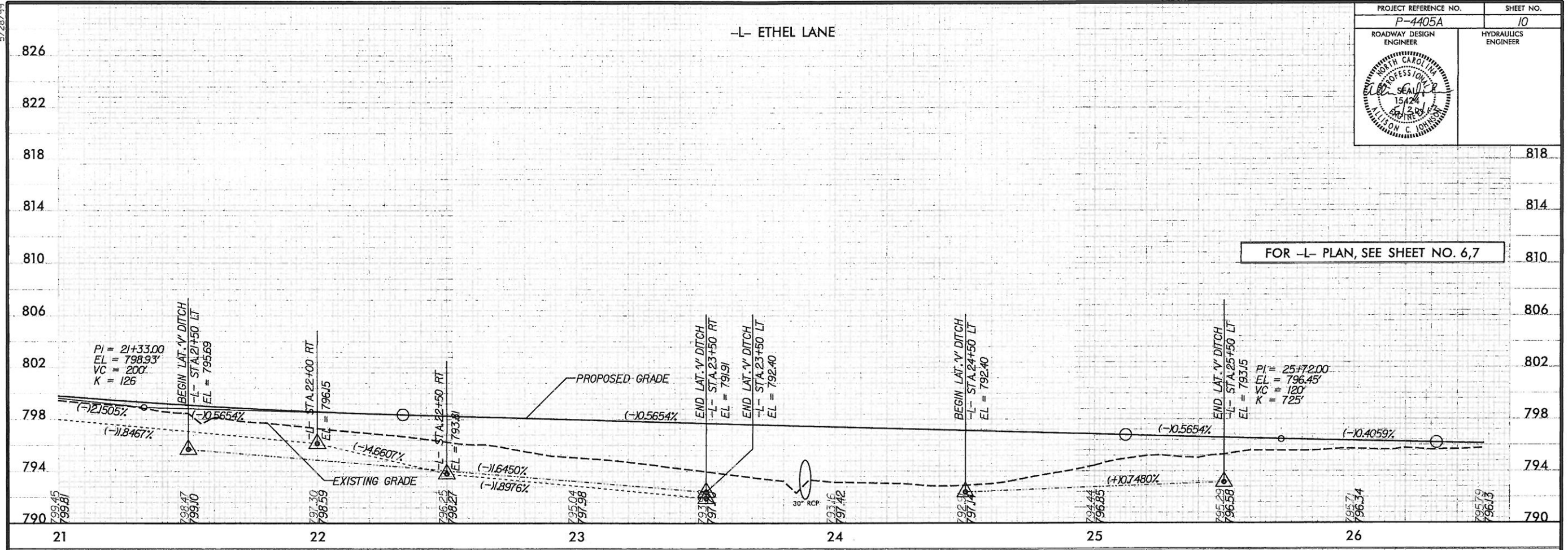
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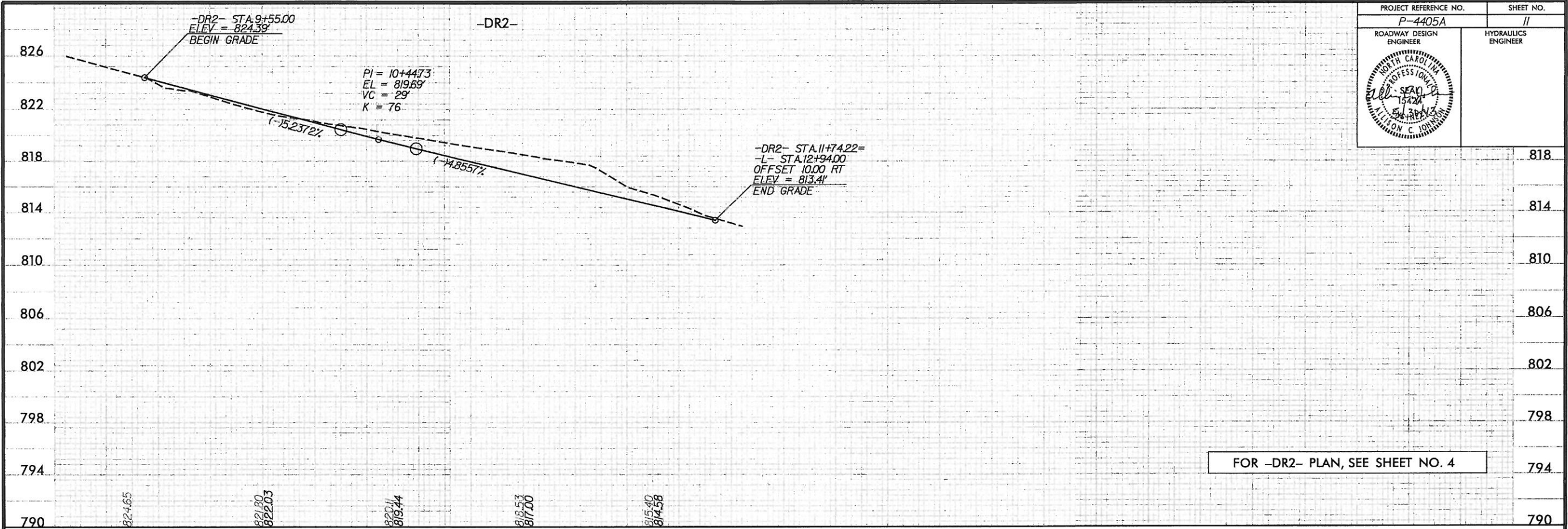
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5/28/2013
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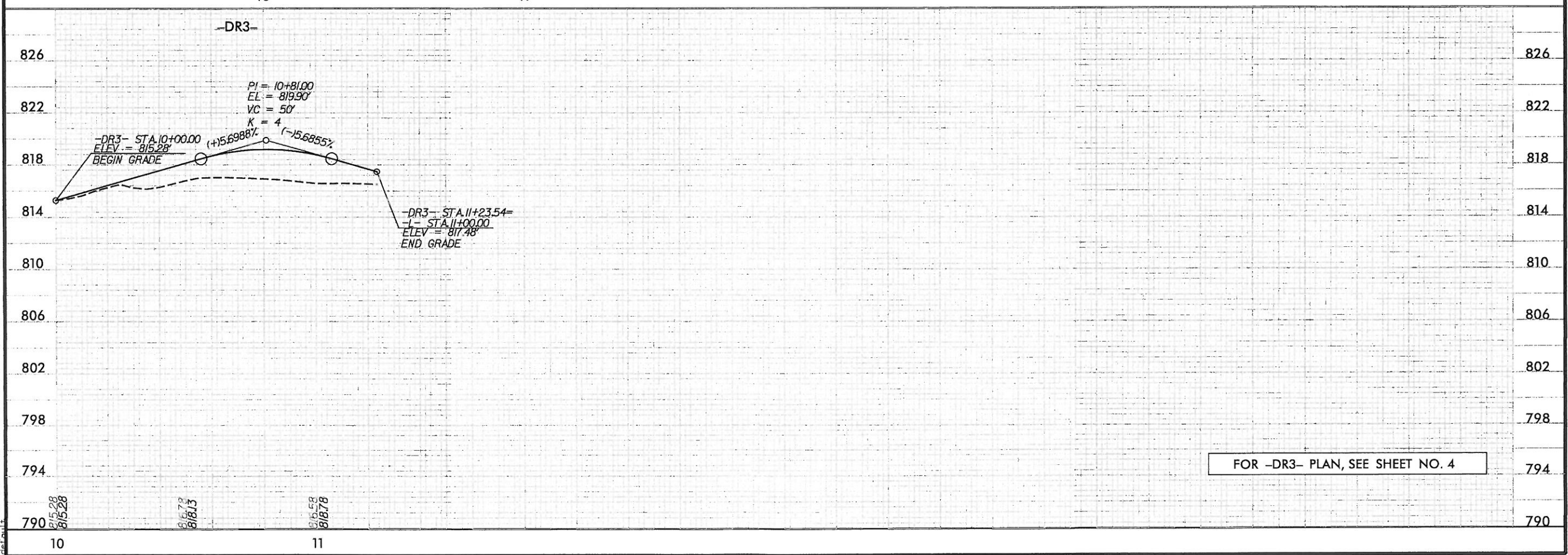
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P-4405A	10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	



5/28/99



5/28/2013
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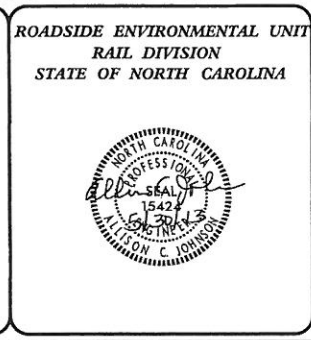
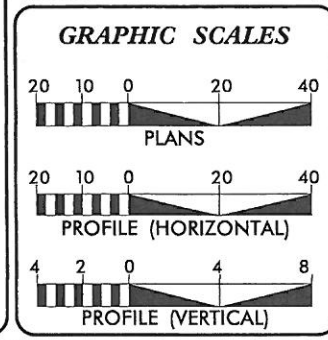
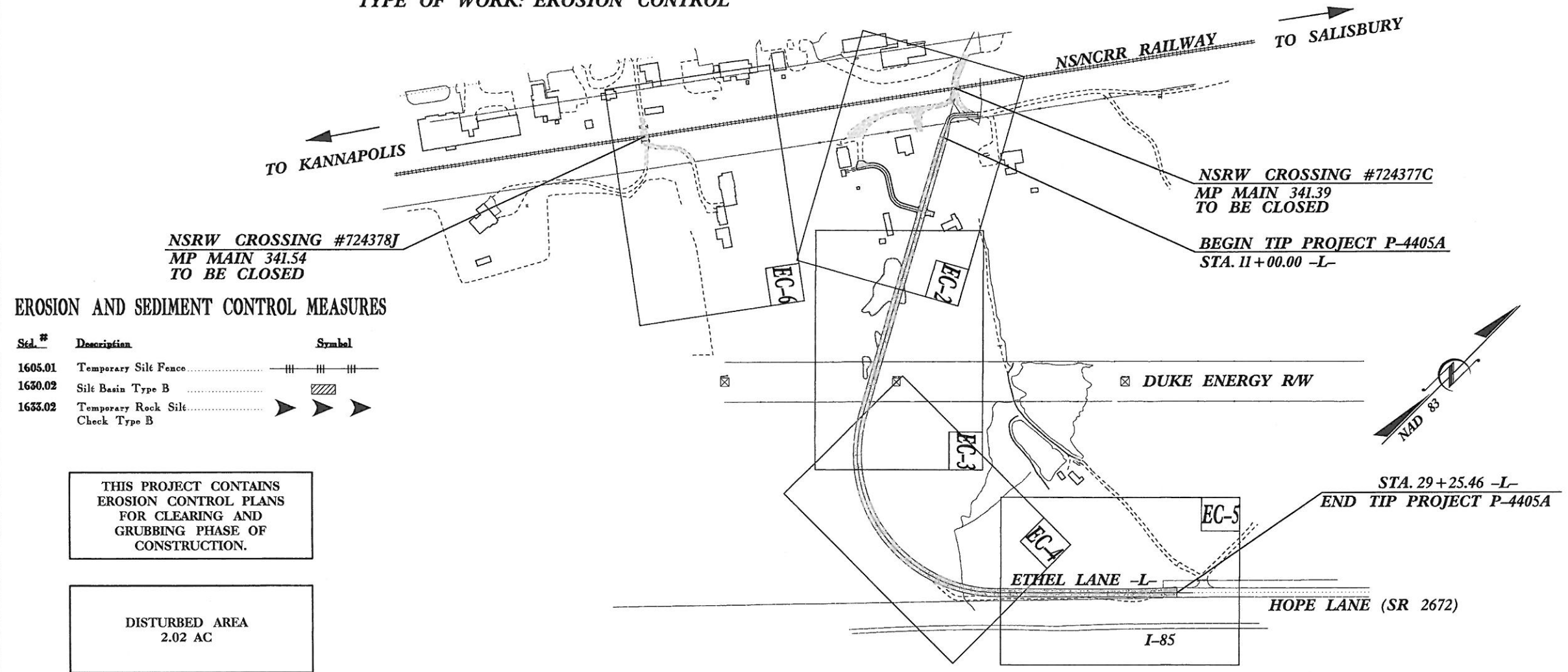
09/08/99
5/29/2013
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TIP PROJECT: P-4405A
CONTRACT: 42412.3.12

STATE OF NORTH CAROLINA
RAIL DIVISION
PLAN FOR PROPOSED
ROADWAY EROSION CONTROL
ROWAN COUNTY

LOCATION: ETHEL LANE @ NSNCRR RAILWAY CROSSING NO. 724377C/
JUKE BOX ROAD @ NSNCRR RAILWAY CROSSING NO. 724378J
PRIVATE CROSSING CLOSURE
TYPE OF WORK: EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	P-4405A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42412.1.2	STP-0005(513)	PE	
42412.2.1	STP-0005(513)	RW & UTILITY	
42412.3.12	STP-0005(513)	CONST	



Prepared in the Office of:
Gannett Fleming
GANNETT FLEMING, INC.
301 S. McDOWELL STREET, SUITE 1008
CHARLOTTE, NORTH CAROLINA 28204-2644
PHONE: 704-375-2638 FAX: 704-375-9361
GF PROJECT NO. - 05175.100

2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

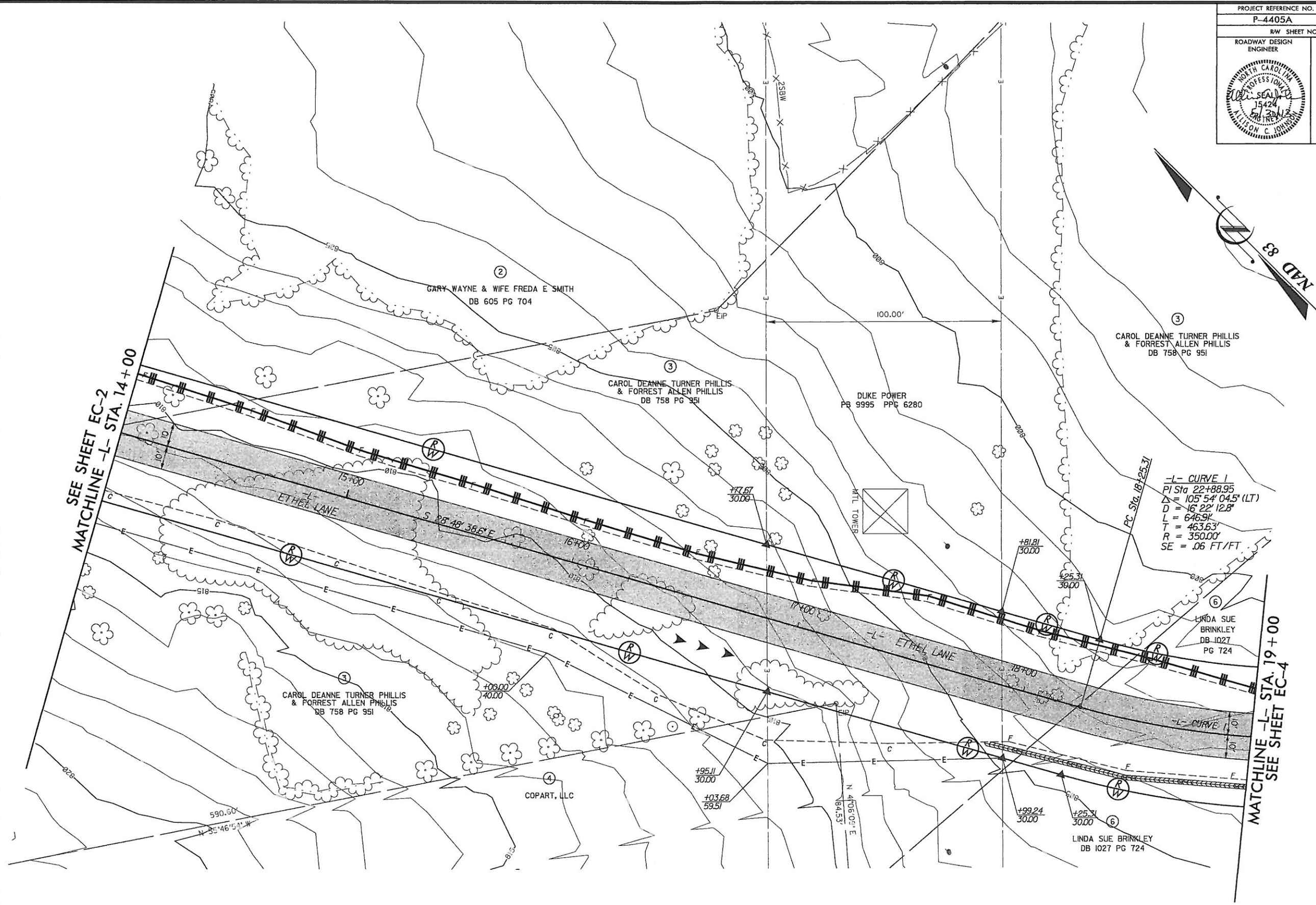
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 17, 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence
1630.02 Silt Basin Type B
1633.02 Temporary Rock Silt Check Type B

8/17/99
REVISIONS
5/29/2007
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PROJECT REFERENCE NO.		SHEET NO.
P-4405A		EC-3
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	





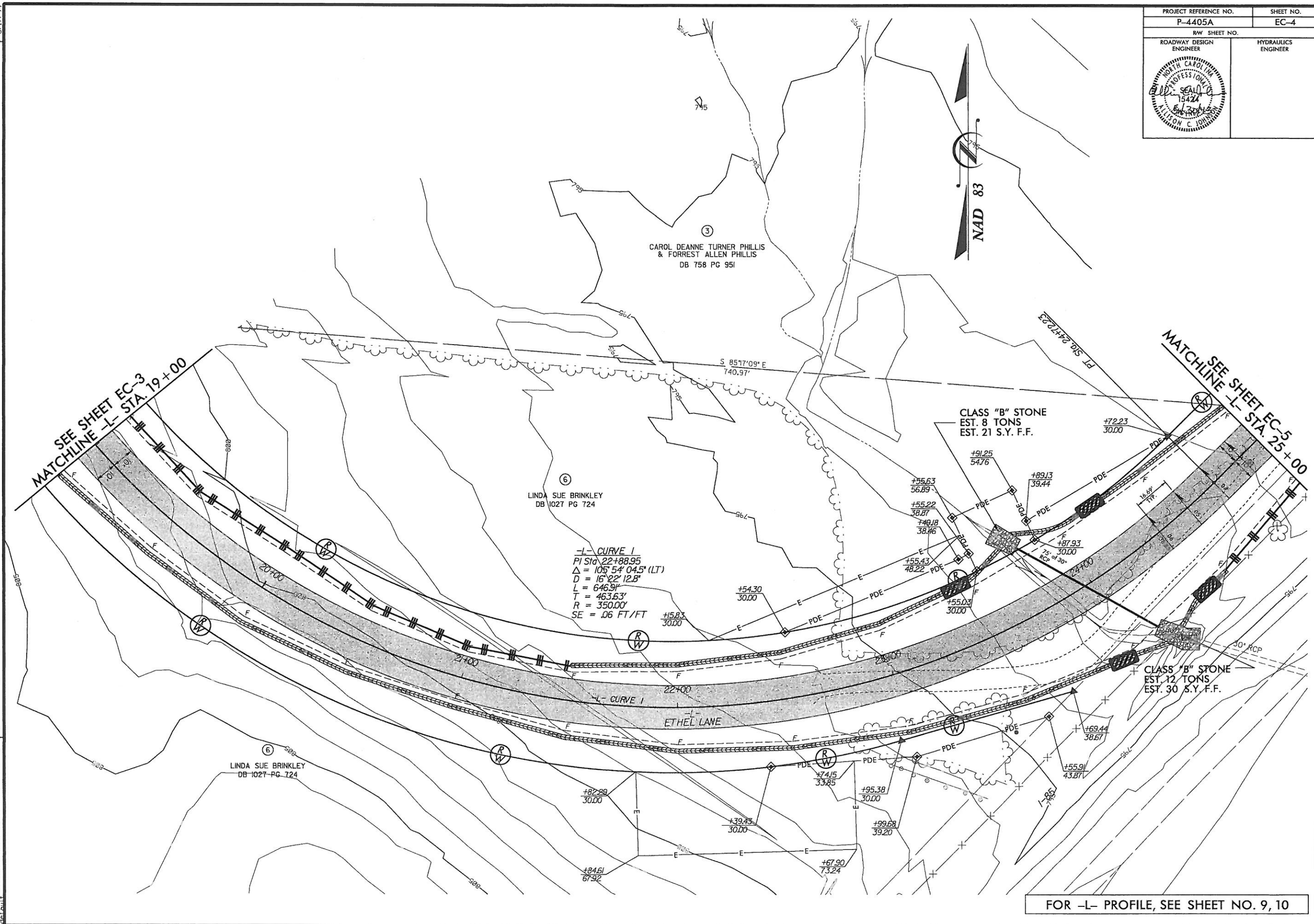
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PI Sta 22+88.95
 $\Delta = 105^\circ 54' 04.5\"$ (LT)
 $D = 16^\circ 22' 12.8\"$
 $L = 646.9'$
 $T = 463.63'$
 $R = 350.00'$
 $SE = .06$ FT/FT

FOR -L- PROFILE, SEE SHEET NO. 9

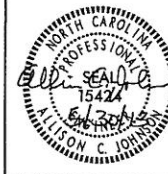
8/17/99

REVISIONS

5/23/2013
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



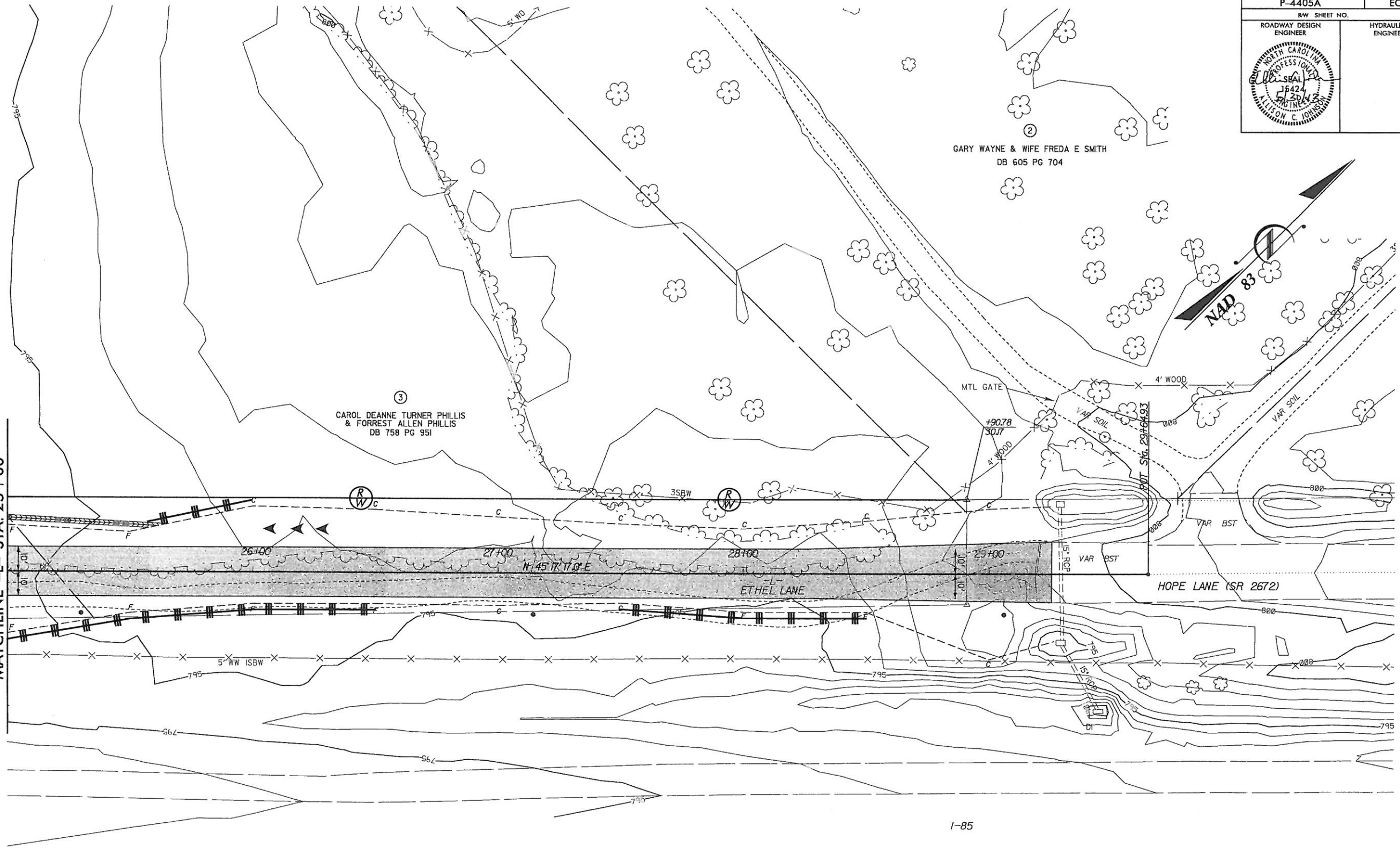
FOR -L- PROFILE, SEE SHEET NO. 9, 10

8/17/99

REVISIONS

5/22/2003 100.Ethel.Luke B:\P-4405A\Roadway\POJ\4405A.Rdy.ec5.dgn

SEE SHEET EC-4
MATCHLINE -L- STA. 25+00



PROJECT REFERENCE NO. P-4405A		SHEET NO. EC-5
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER		



FOR -L- PROFILE, SEE SHEET NO. 10

5/29/2013
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default

TIP PROJECT:

P-4405A

STATE OF NORTH CAROLINA
RAIL DIVISION

PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
ROWAN COUNTY

STATE PROJECT REFERENCE NO.

P-4405A

SHEET NO.

TCP-1

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 -DR2-,-L- STA. 11+00.00 TO 29+25.46
STEP 3	CONSTRUCT IMPROVEMENTS UP TO AND INCLUDING THE FINAL SURFACE COURSE FOR -DR3-.. REMOVE PAVEMENT WITHIN RAILROAD R/W (SEE PLAN).
STEP 4	REMOVE SIGNS. OPEN ETHEL LANE FOR 2-LANE, 2-WAY TRAFFIC.

PAVEMENT MARKING SCHEDULE

DESCRIPTION	PAY ITEM	TOTAL QUANTITY
WHITE EDGE LINE	THERMOPLASTIC (4")	3660 LF
YELLOW DOUBLE CENTERLINE	THERMOPLASTIC (4")	1830 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.

- 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 UNDESIRABLE OVERLAPPING OF
DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR
REMOVAL OF DEVICES.
- NOTIFY ENGINEER 21 CALENDER DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATIONS.
- PROVIDE CLOSURE SIGNING OFF THE PROJECT LIMITS.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- 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.
- TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES
- THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO ALL PROPERTIES DURING CONSTRUCTION.
- 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:

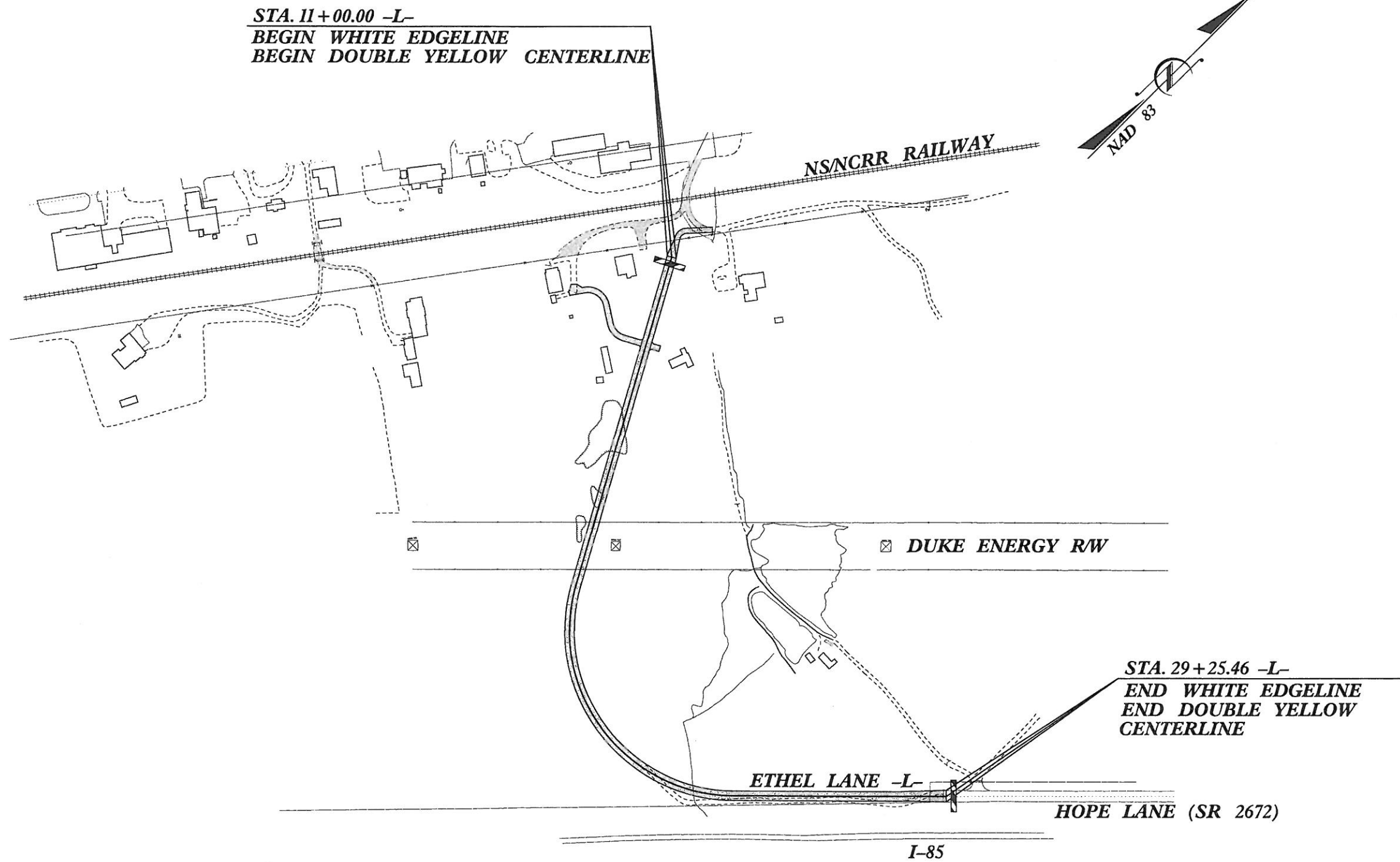
SEAL



Prepared In the Office of: 

GANNETT FLEMING, INC.
301 S. McDOWELL STREET, SUITE 1800
CHARLOTTE, NORTH CAROLINA 28244-1644
PHONE: 704-275-2438 FAX: 704-332-1061

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



5/29/2013
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 GETOUT

APPROVED: _____ DATE: _____		SIGNING AND FINAL PAVEMENT MARKINGS 		REVISIONS			
				<table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>			
SCALE: NONE DATE: - DWG. BY: CJE DESIGN BY: CJE REVIEWED BY: WTW		GANNETT FLEMING, INC. 301 S. WOODWELL STREET, SUITE 1000 CHARLOTTE, NORTH CAROLINA 28284-2644 PHONE: 704-375-2438 FAX: 704-332-1381		CADD FILE			

8/23/99
2/19/2013
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Project

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CROSS-SECTION SUMMARY

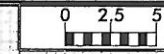
PROJ. REFERENCE NO.	SHEET NO.
P-4405A	X-1

Station	Uncl. Exc.	Embt
- L -	(cu. yd.)	(cu. yd.)
10+00.000	0	0
10+50.000	4	60
11+00.000	10	80
11+50.000	8	29
12+00.000	56	14
12+50.000	97	20
13+00.000	20	32
13+50.000	25	50
14+00.000	24	80
14+50.000	30	88
15+00.000	24	67
15+50.000	32	50
16+00.000	40	34
16+50.000	97	21
17+00.000	149	30
17+50.000	97	74
18+00.000	35	128
18+50.000	19	151
19+00.000	16	113
19+50.000	15	59
20+00.000	17	65
20+50.000	24	52
21+00.000	28	18
21+50.000	36	25
22+00.000	34	52
22+50.000	38	89
23+00.000	44	151
23+50.000	32	230
24+00.000	12	311
24+50.000	4	333
25+00.000	11	219
25+50.000	15	93
26+00.000	27	40
26+50.000	35	15
27+00.000	27	7
27+50.000	28	2
28+00.000	21	12
28+50.000	8	27
29+00.000	29	18
SUBTOTAL -L-	1268	2939

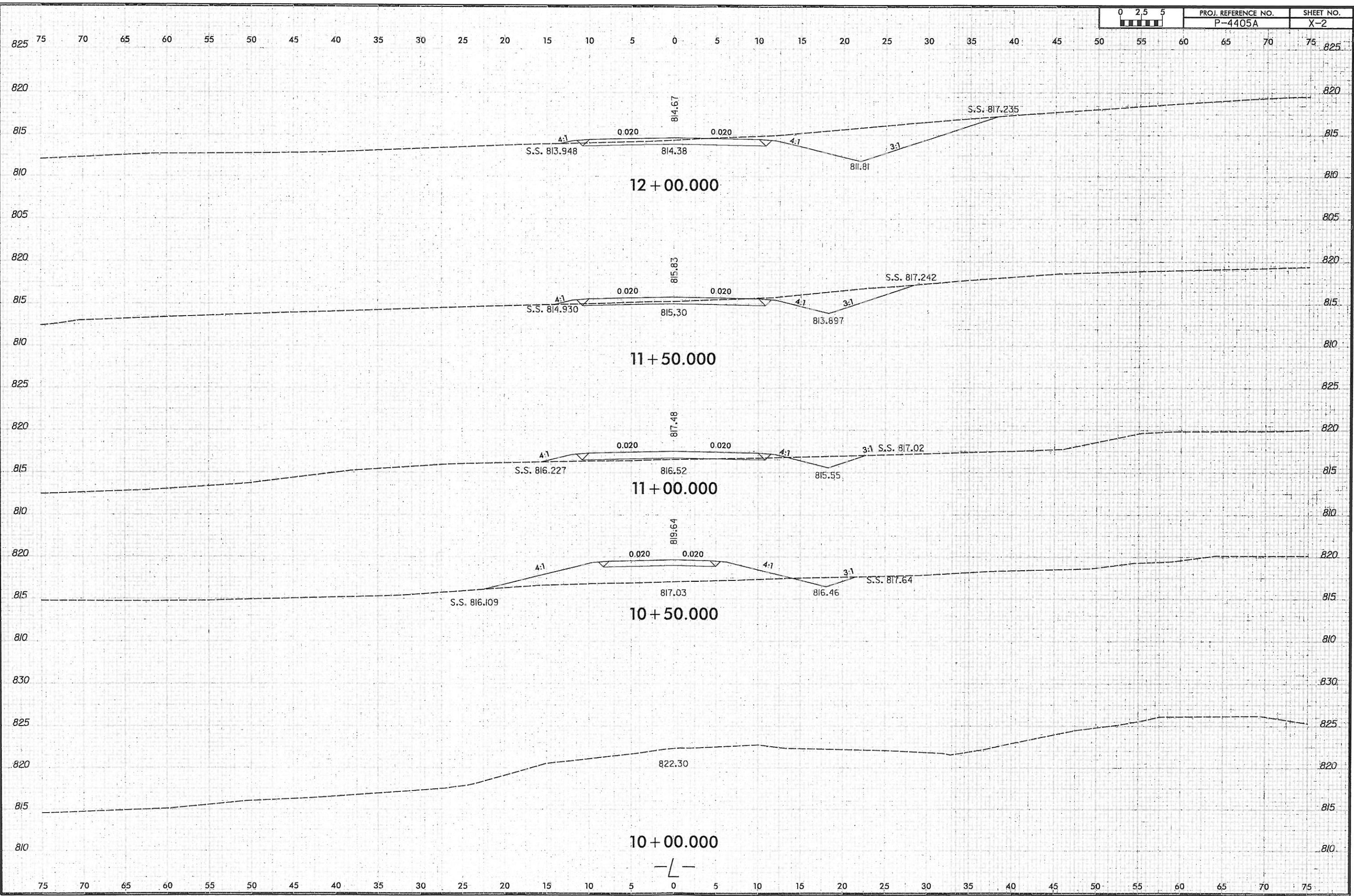
Station	Uncl. Exc.	Embt
-DR2-	(cu. yd.)	(cu. yd.)
10+00.000	0	0
10+50.000	14	3
11+00.000	46	0
11+50.000	58	0
SUBTOTAL -DR2-	118	3
Station	Uncl. Exc.	Embt
-DR3-	(cu. yd.)	(cu. yd.)
10+00.000	0	0
10+50.000	1	0
11+00.000	0	50
SUBTOTAL -DR3-	1	50
GRAND TOTAL	1387	2992
SAY	1400	3000

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".

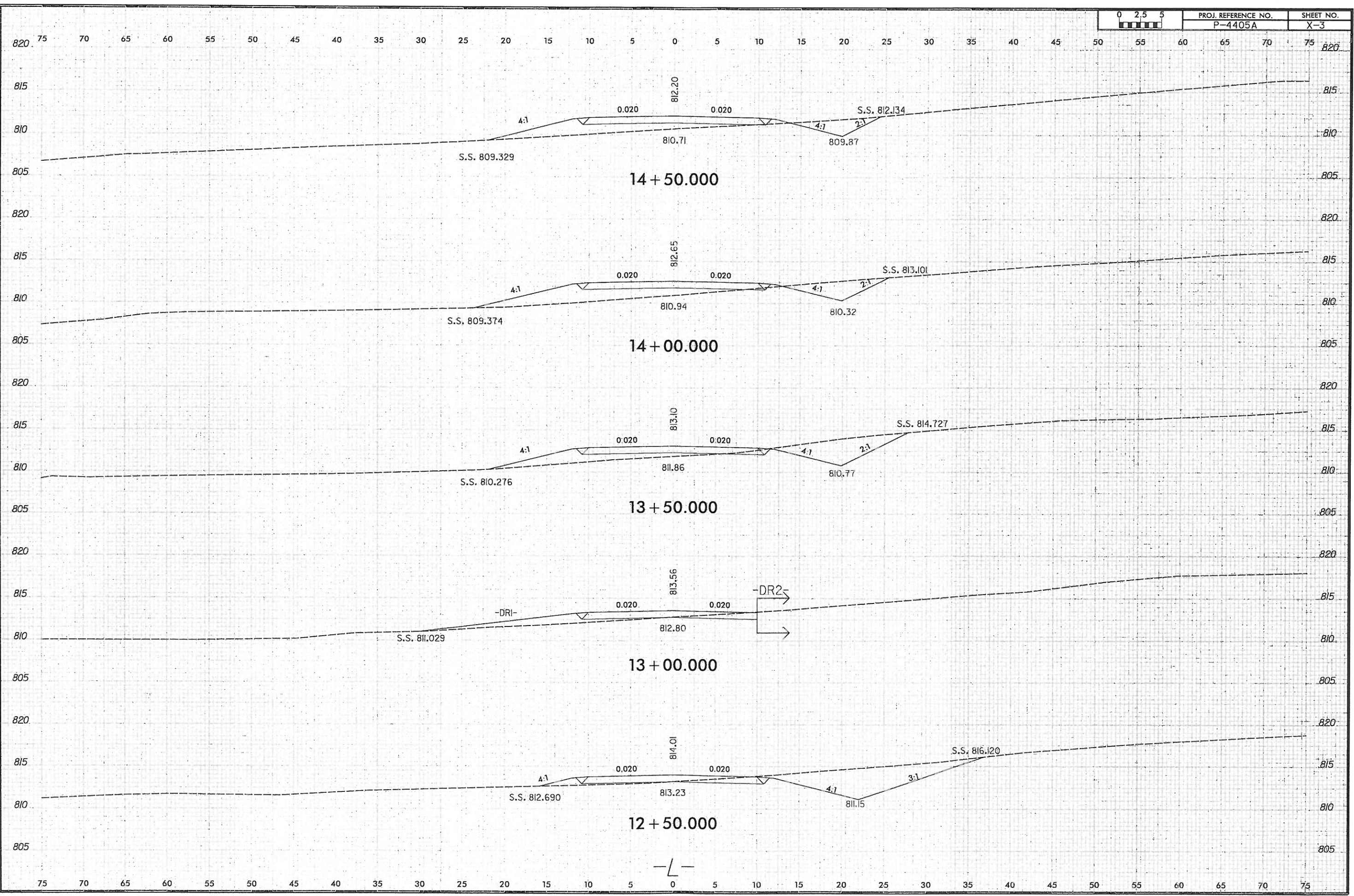
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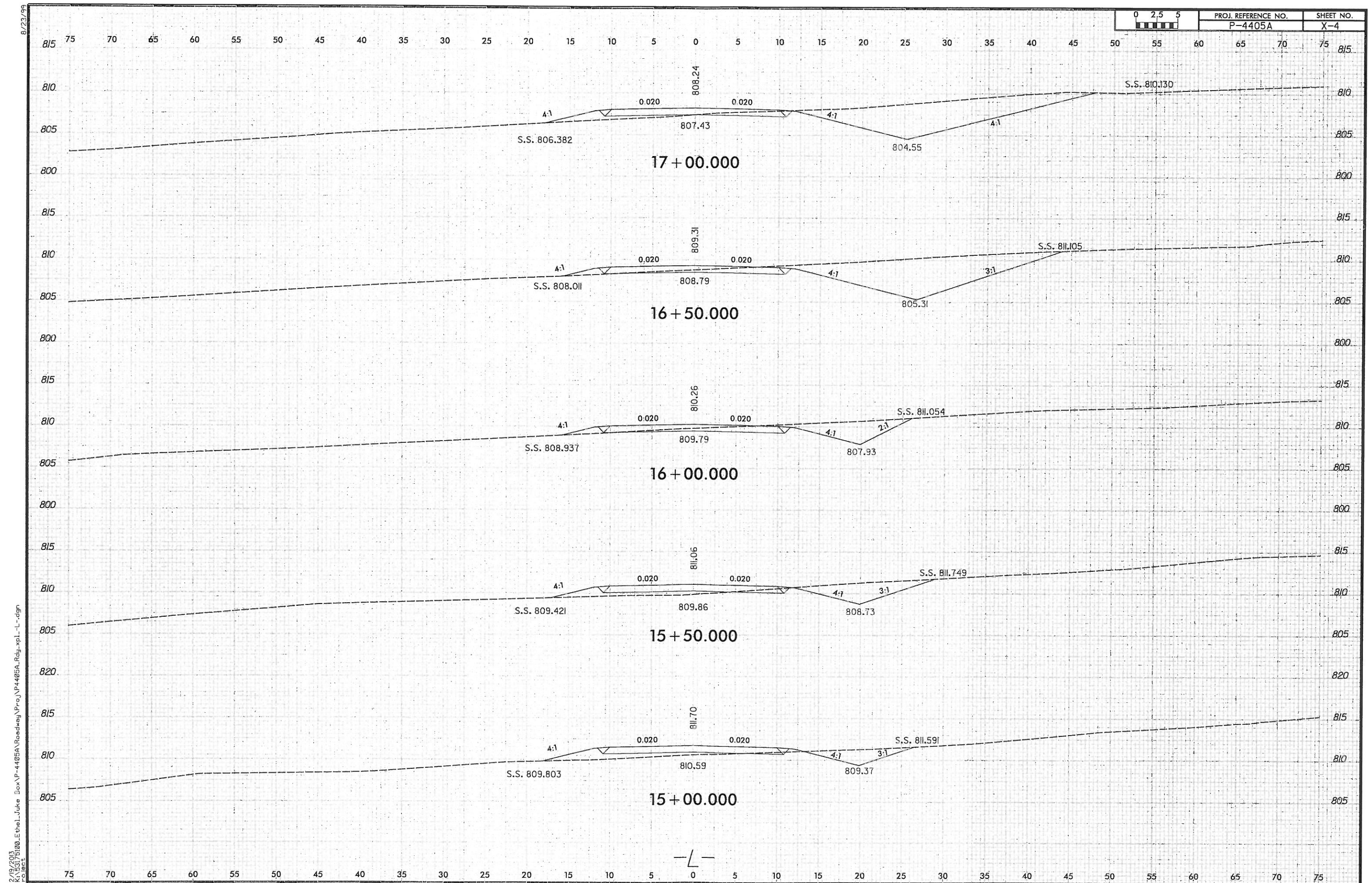


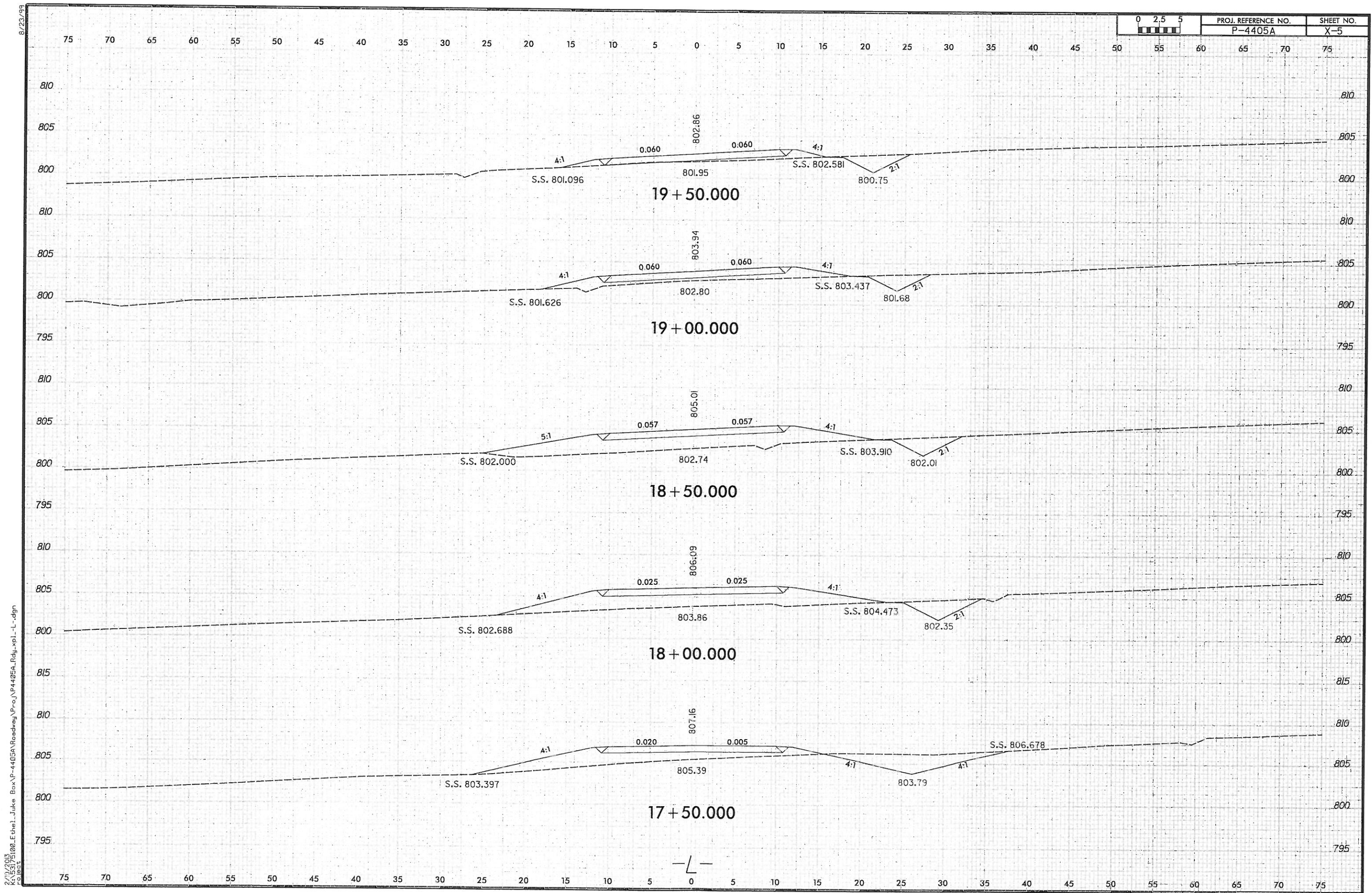
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P-4405A	X-2



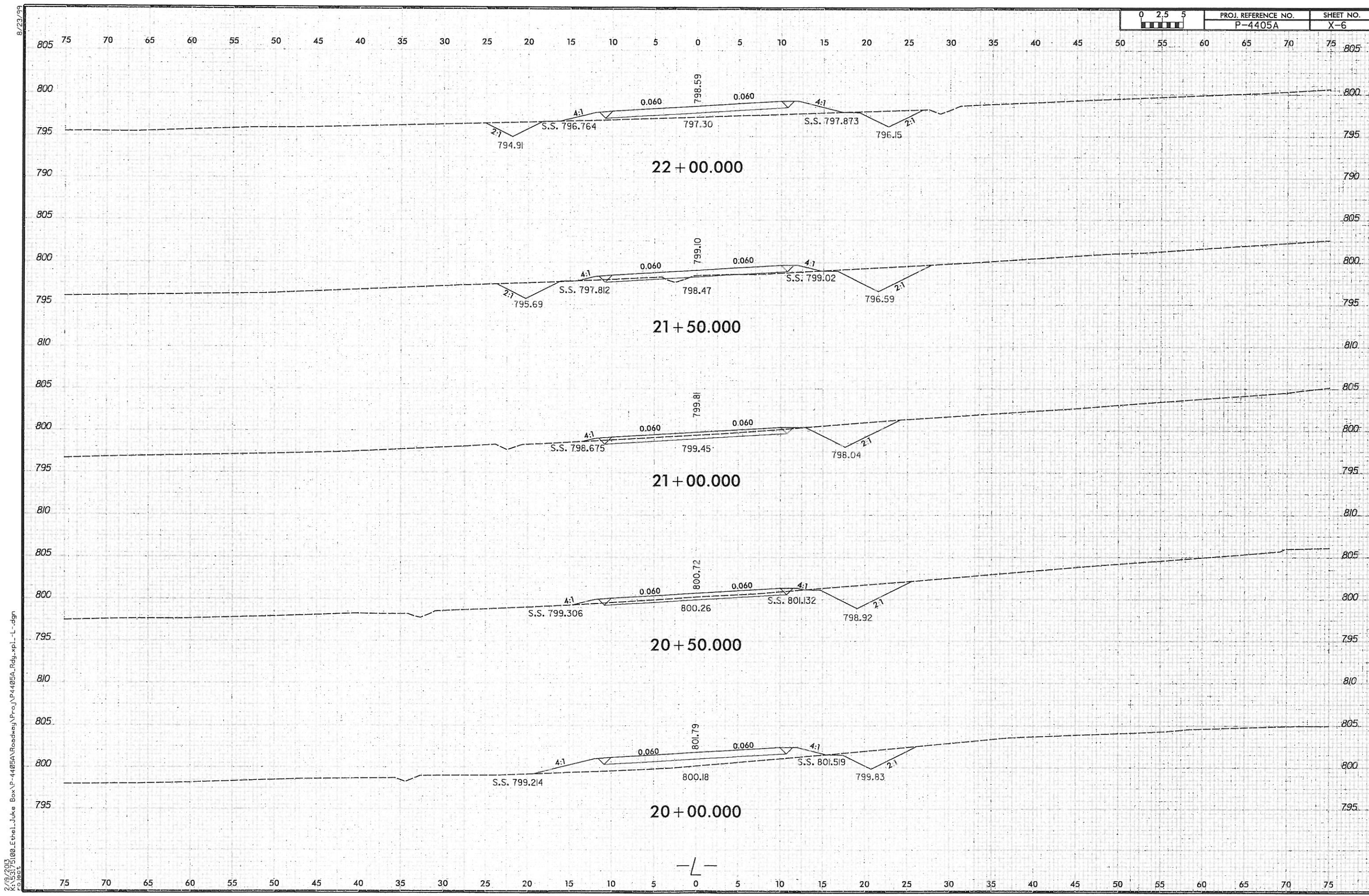
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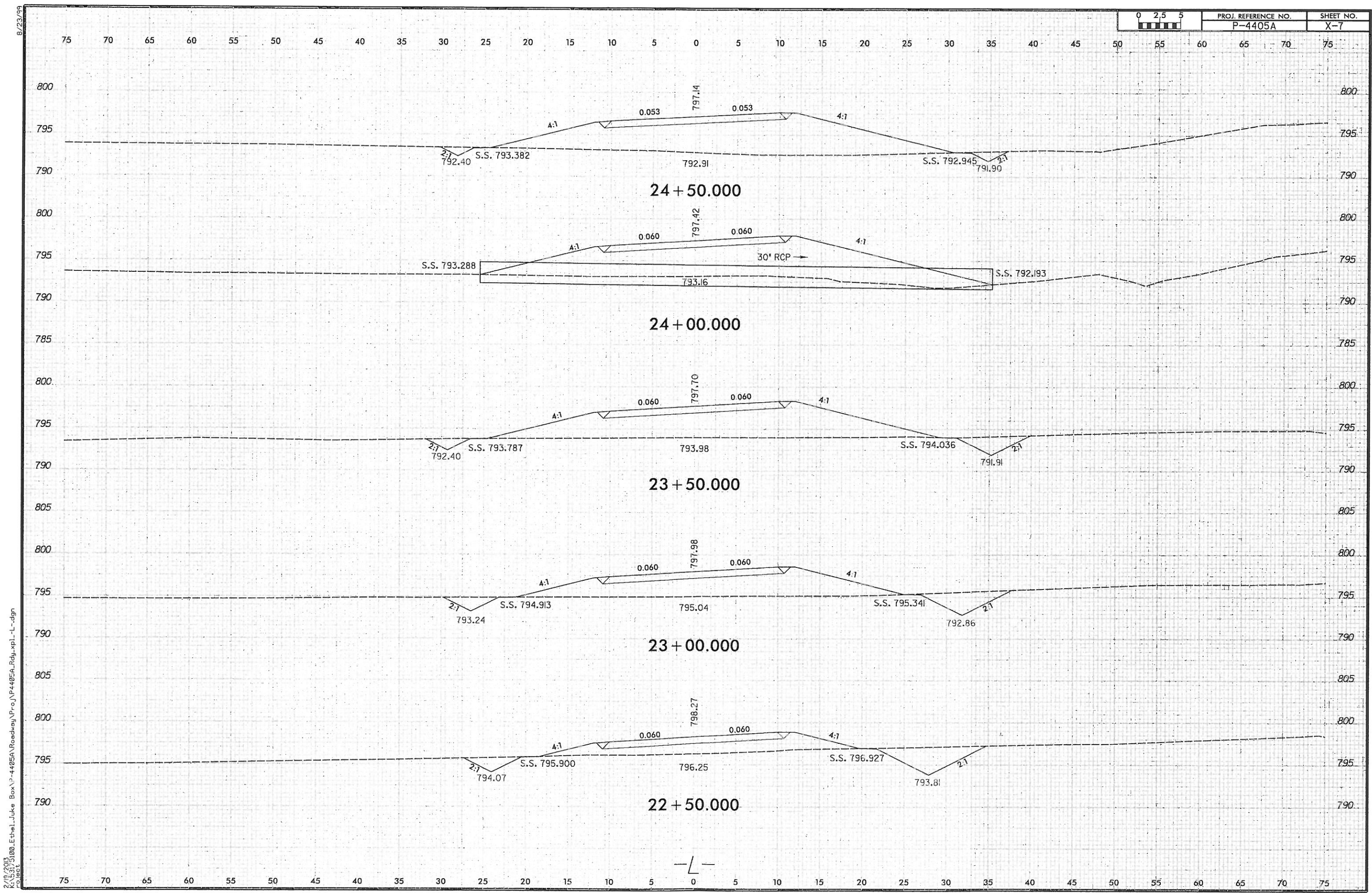


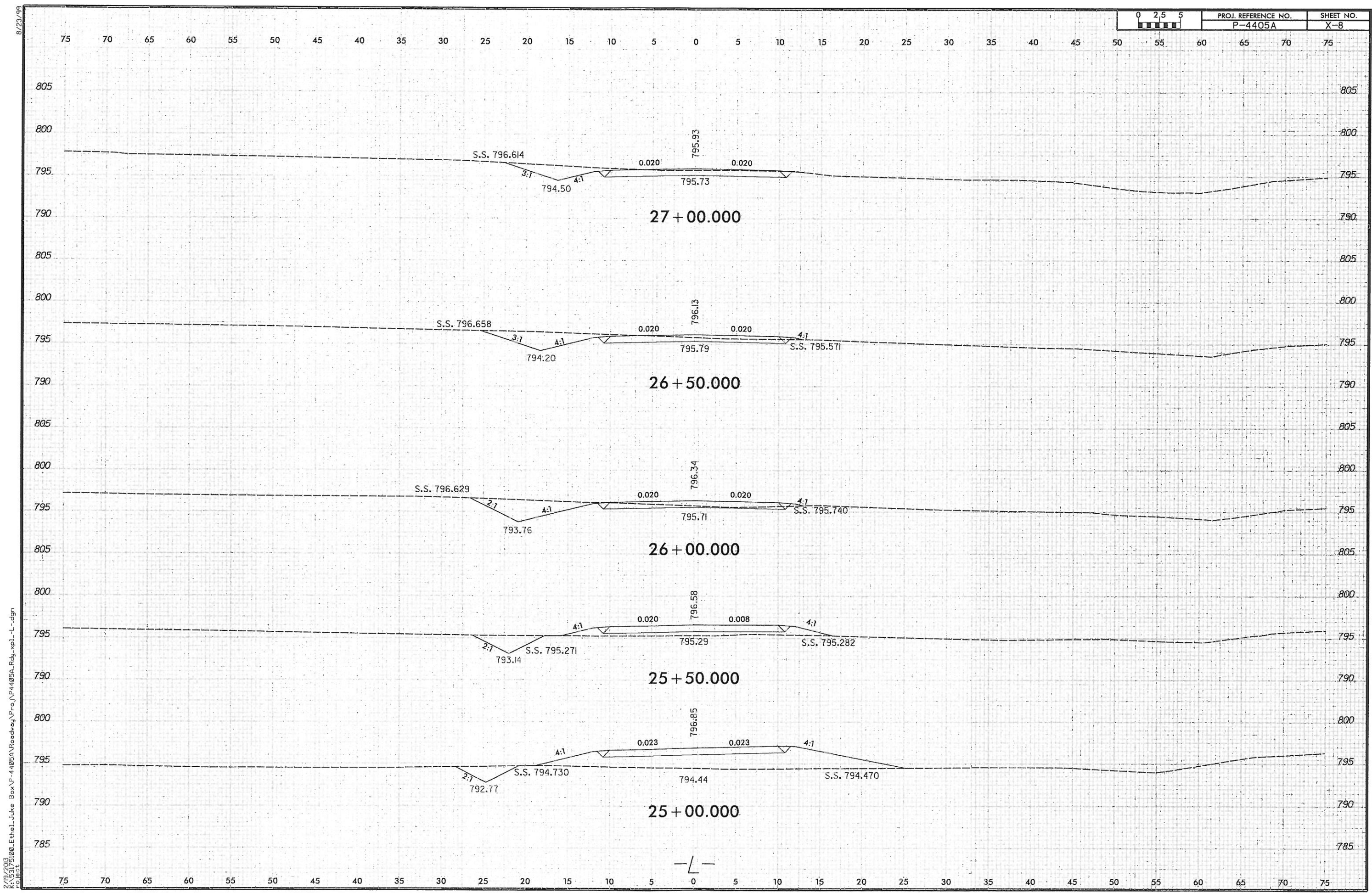


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2/9/2013
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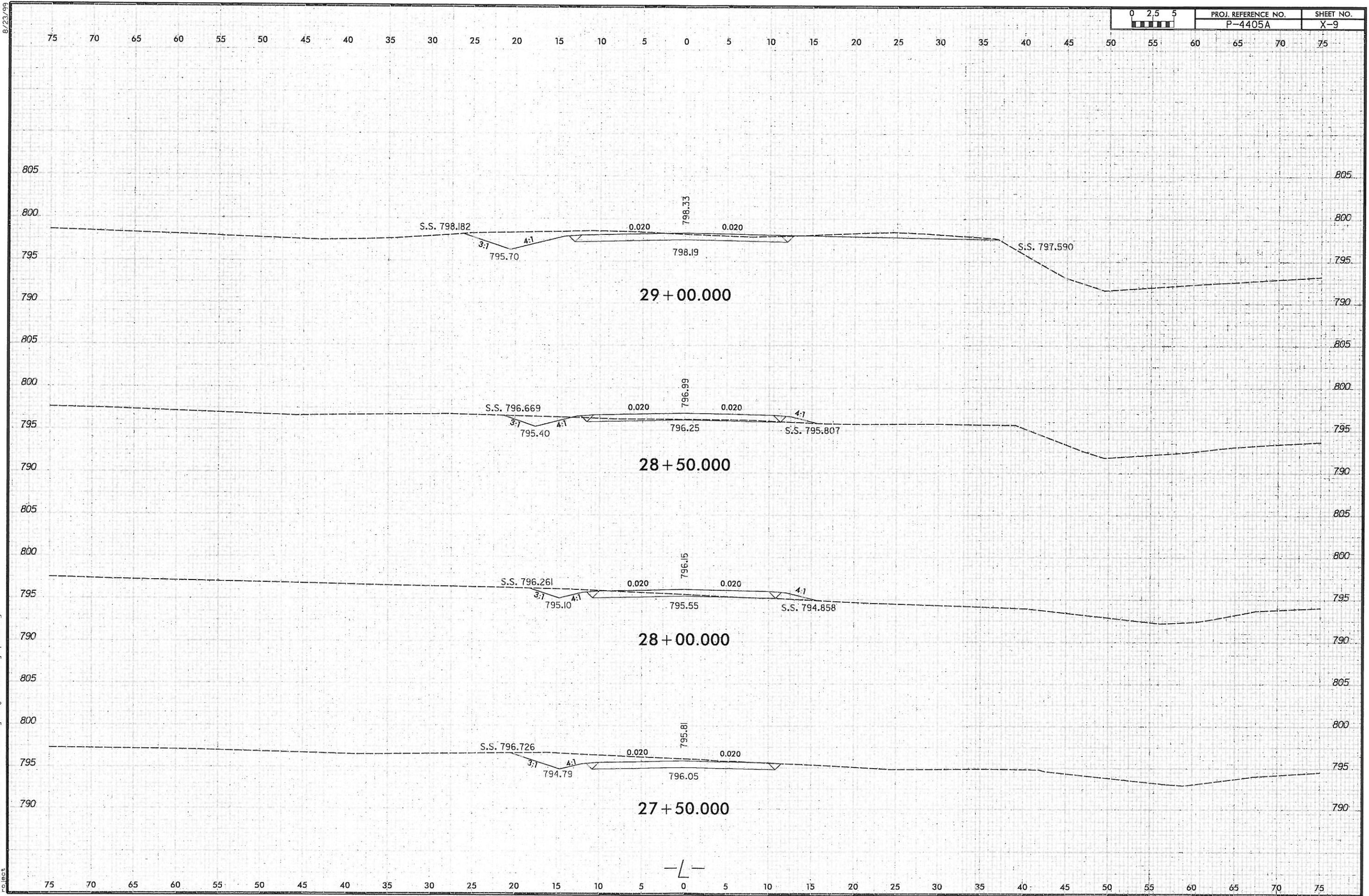


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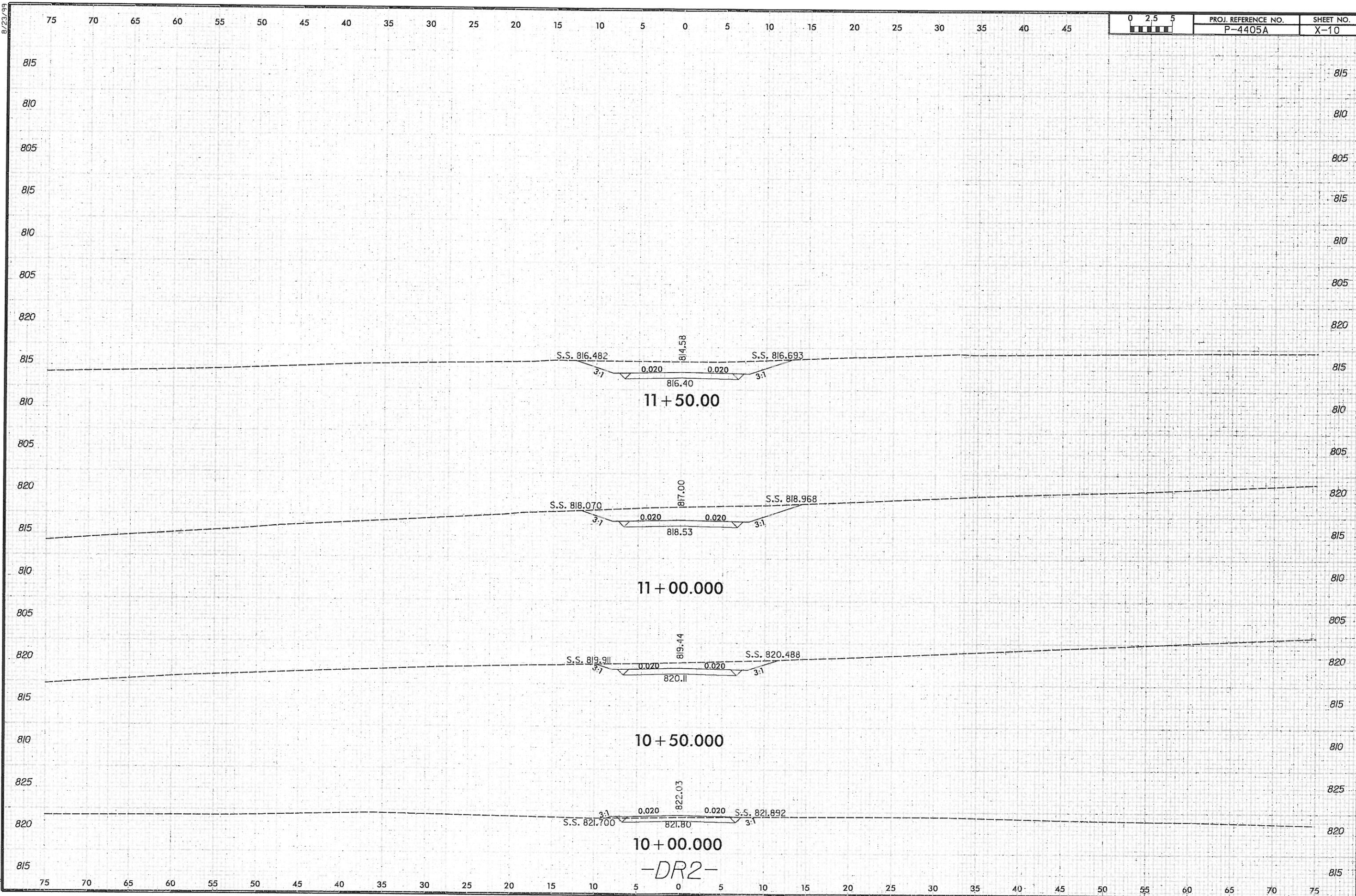
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	P-4405A	X-9



2/19/2013
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Project

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8/23/99
2/19/2013
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