

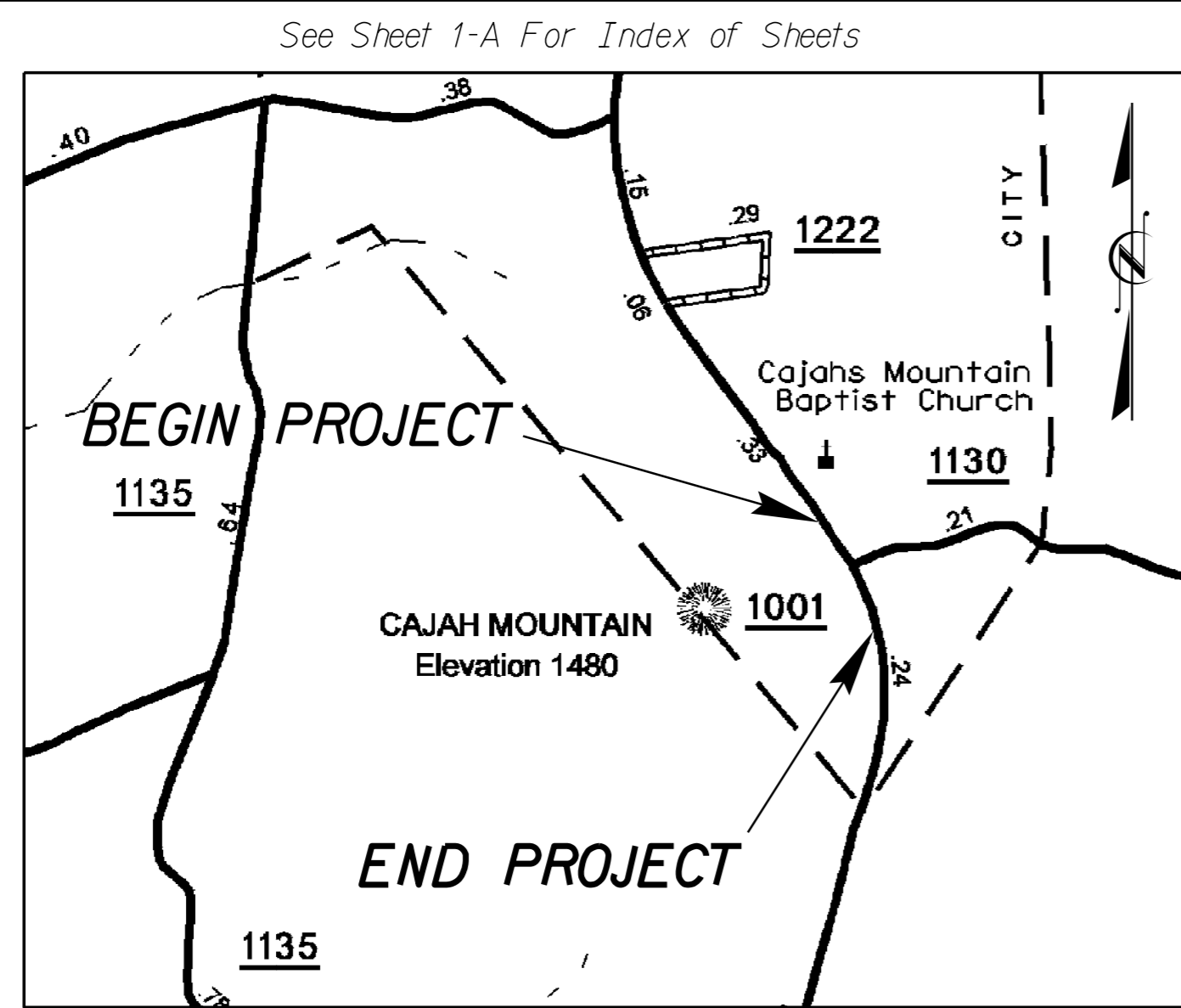
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5805	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45967.1.1	STBGDA-1115(026)	P.E.	
45967.2.1	STBGDA-1115(026)	RW/UTILITY	
45967.2.1	STBGDA-1115(026)	CONST.	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

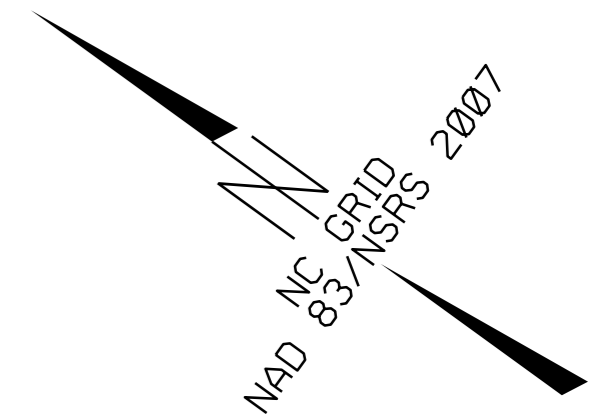
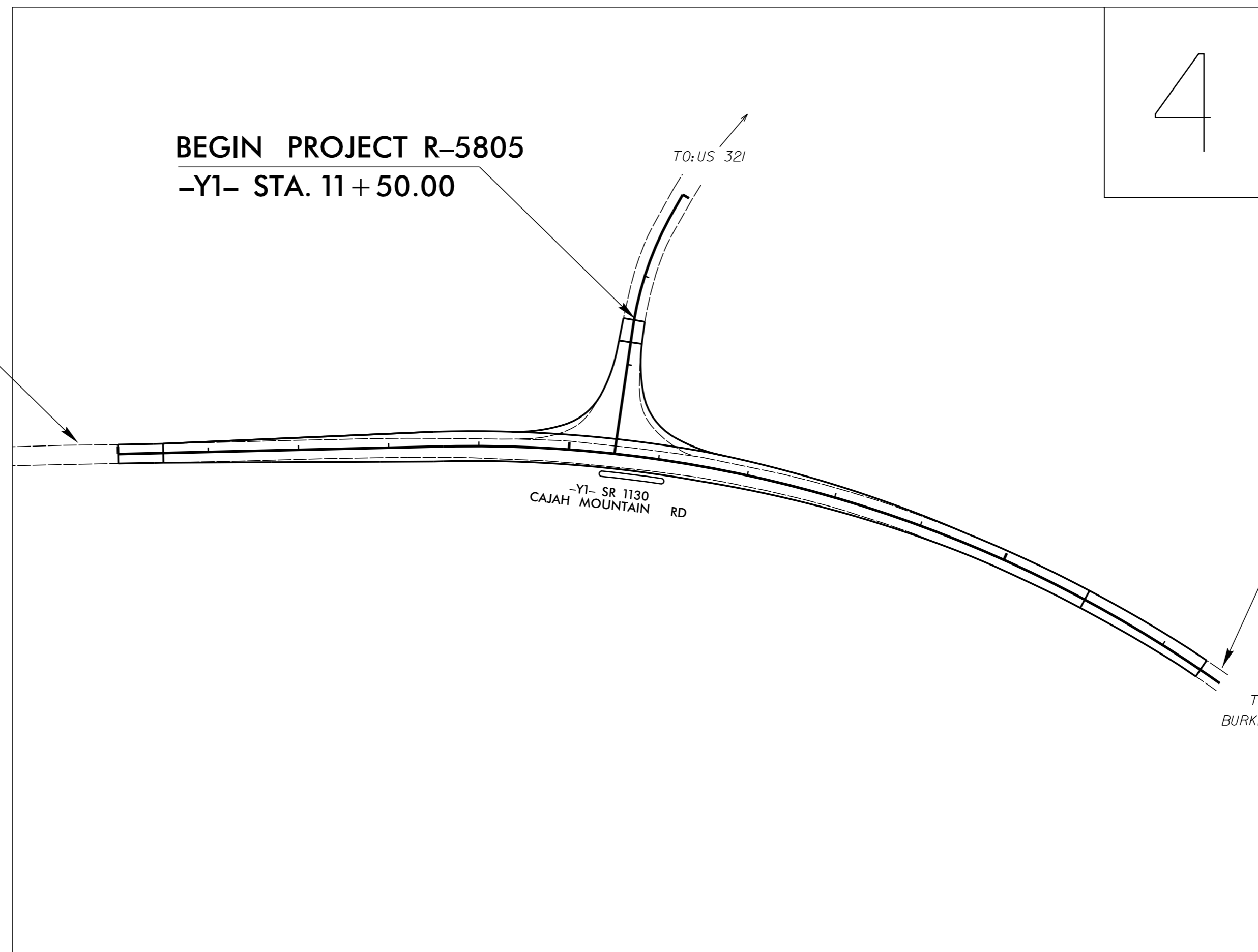
CALDWELL COUNTY

LOCATION: INTERSECTION OF SR 1001 (CONNELLY SPRINGS RD.) AND SR 1130 (CAJAH MTN. RD.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND WIDENING



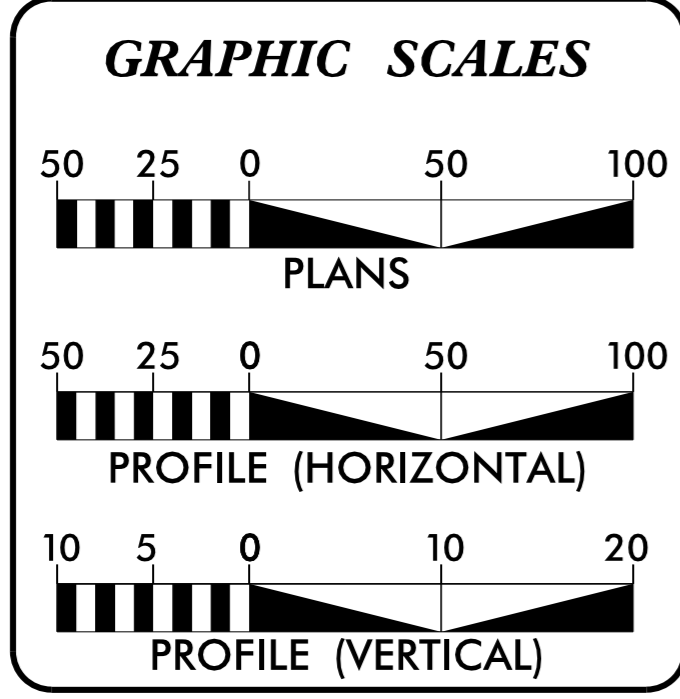
VICINITY MAP
(NOT TO SCALE)



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TIP PROJECT: R-5805

CONTRACT: DK00220



DESIGN DATA

ADT 2015 =	11,000
ADT 2040 =	16,000
DHV =	9 %
D =	50 %
T =	3 % *
V =	50 MPH
* TTST =	1% DUAL 2%

**REGIONAL TIER DESIGN
FUNCTIONAL
CLASSIFICATION: LOCAL**

PROJECT LENGTH

TOTAL PROJECT R-5805 LENGTH = 0.242 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
801 Statesville Road, North Wilkesboro, NC 28659

2012 STANDARD SPECIFICATIONS	DIVISION ENGINEER M.A. PETTYJOHN, PE
RIGHT OF WAY DATE: September 30, 2013	DocuSigned by: M.A. Pettyjohn DC4800DC35D74BC... P.E.
LETTING DATE: July 27, 2017	SIGNATURE 6/28/2017 DATE

HYDRAULICS ENGINEER
MARC T. SHOWN, PE

DocuSigned by:
Marc T. Shown
4B024AEC0A0B4C2... P.E.

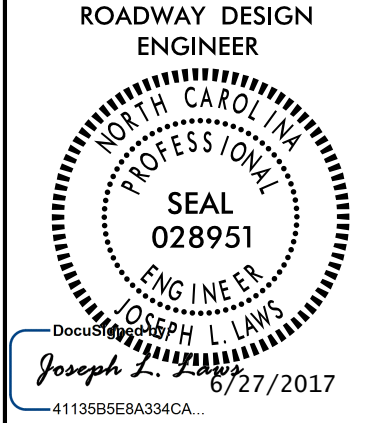
SIGNATURE
6/28/2017
DATE

DIVISION PROJECT MANAGER
JOSEPH L. LAWS, PE

DocuSigned by:
Joseph L. Laws
4113585E8A334CA... P.E.

SIGNATURE
6/28/2017
DATE

28-JUN-2017 14:22 R:\R-5805\Roadway\Proj\R-5805_DDC-fsh.dgn \$\$\$\$USERNAME\$\$\$



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2	PAVEMENT SCHEDULE, AND TYPICAL SECTIONS
3A THRU 3B	SUMMARY OF DRAINAGE QUANTITIES, AND EARTHWORK SUMMARY
4	PLAN SHEET
5 THRU 6	PROFILE SHEET
PM-1 THRU PM-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIG-1 THRU SIG-3	SIGNAL PLANS
X	CROSS-SECTION INDEX
X-A	CROSS-SECTION SUMMARY
X-1 THRU X-14	CROSS-SECTIONS

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Property Corner	→
Property Monument	□ ECM
Parcel/Sequence Number	⑫③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	--- MLB
Proposed Wetland Boundary	--- MLB
Existing Endangered Animal Boundary	--- EAB
Existing Endangered Plant Boundary	--- EPB
Known Soil Contamination: Area or Site	☠
Potential Soil Contamination: Area or Site	☠?

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	--- JS
Buffer Zone 1	--- BZ 1
Buffer Zone 2	--- BZ 2
Flow Arrow	→
Disappearing Stream	→
Spring	○
Wetland	---
Proposed Lateral, Tail, Head Ditch	→
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
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 R/W 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:

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:

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:

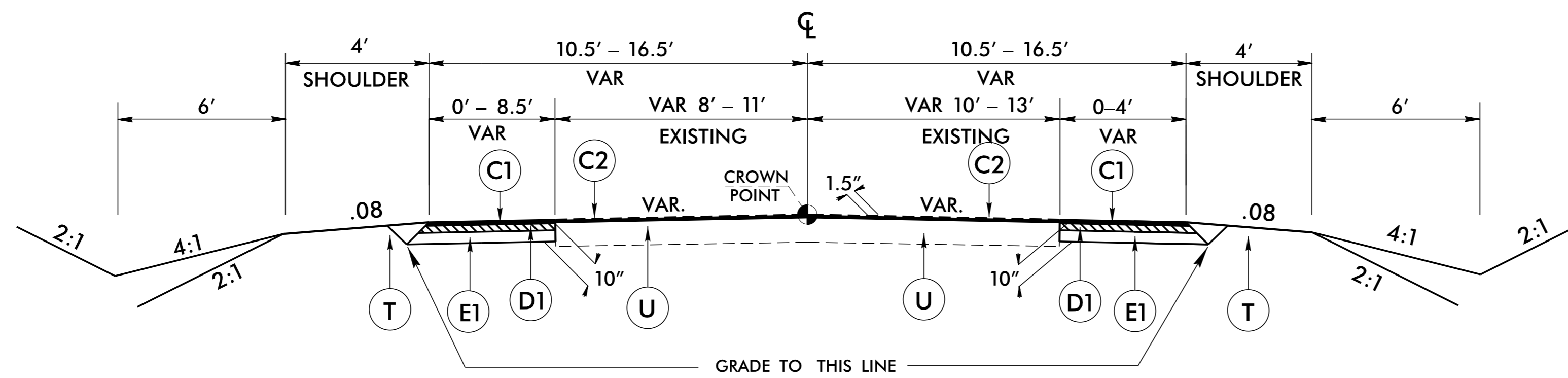
Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

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.*)	-----

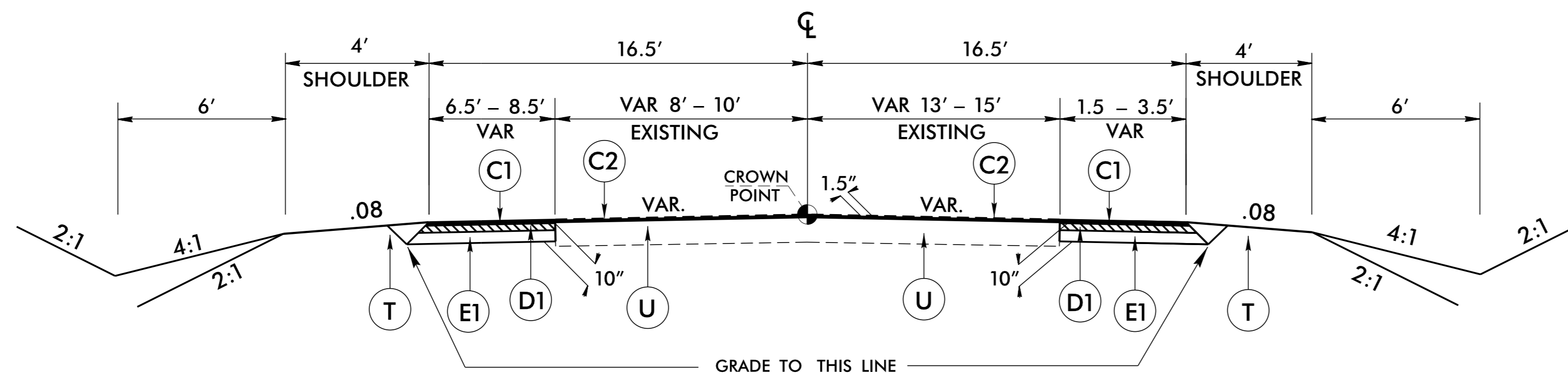
MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.



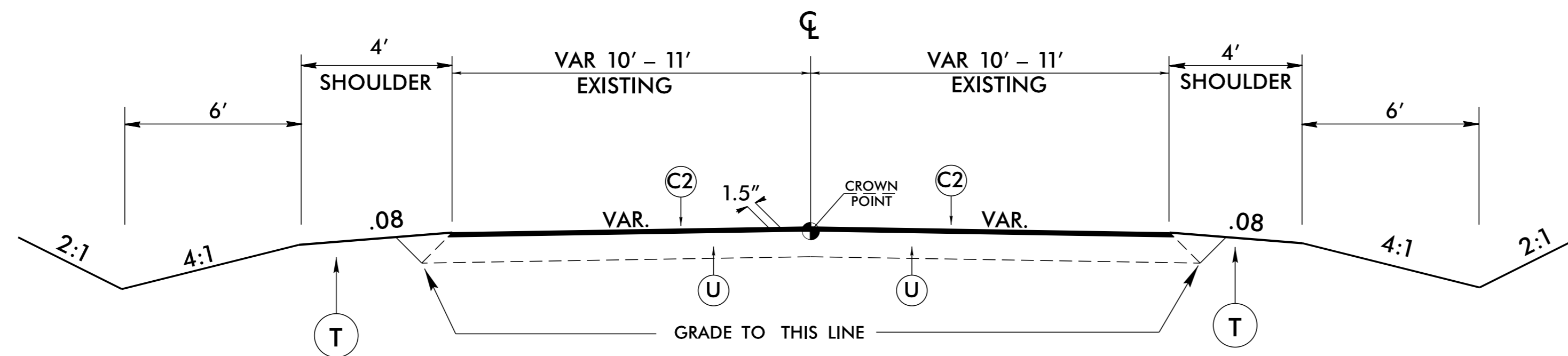
TYPICAL SECTION NO. 1

-L- STA. 10+50.00 TO -L- STA. 14+00.00
-L- STA. 16+50.00 TO -L- STA. 19+50.00



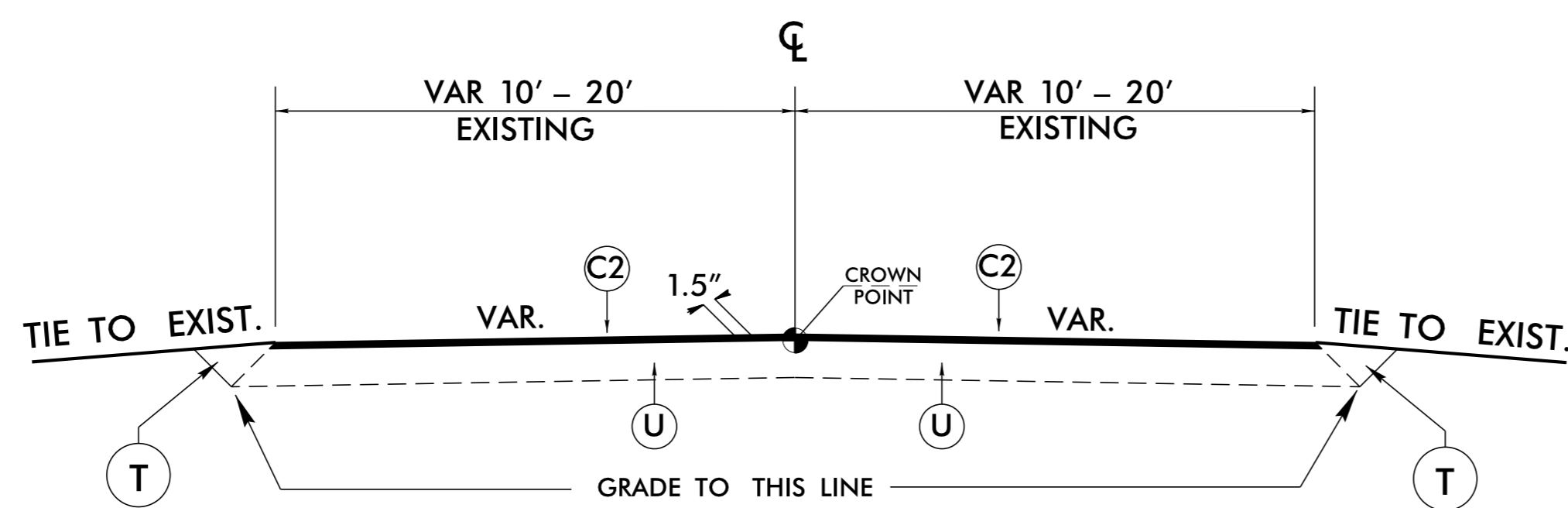
TYPICAL SECTION NO. 2

-L- STA. 14+00.00 TO -L- STA. 16+50.00



TYPICAL SECTION NO. 3

-L- STA. 19+50.00 TO -L- STA. 21+00.00



TYPICAL SECTION NO. 4

-L- STA. 10+00.00 TO -L- STA. 10+50.00 (RESURFACE)
-L- STA. 21+00.00 TO -L- STA. 22+50.00 (RESURFACE)
-Y1- STA. 11+50.00 TO -L- STA. 11+75.00 (RESURFACE)
-Y1- STA. 11+75.00 TO -L- STA. 12+83.00

PAVEMENT SCHEDULE

C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	EARTH MATERIAL
U	EXISTING PAVEMENT

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

6/2/99

26 JUN 2017 14:44
C:\Users\jones\OneDrive\Documents\Projects\5805\DDC.tup.dgn

COMPUTED BY: DLH DATE: 09/16/2013
 CHECKED BY: DON DATE: 9/18/2013

PROJECT NO. R-5805 SHEET NO. 3-B

RD261649

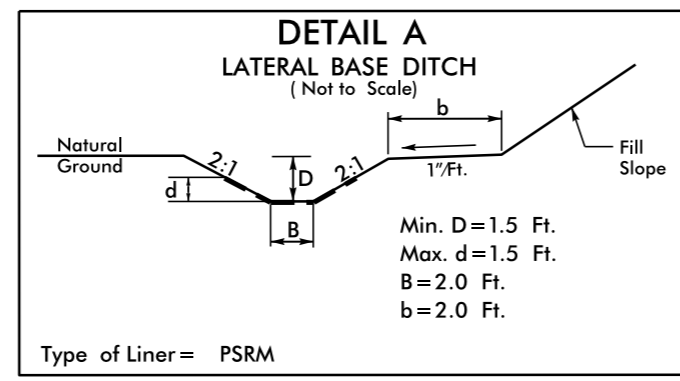
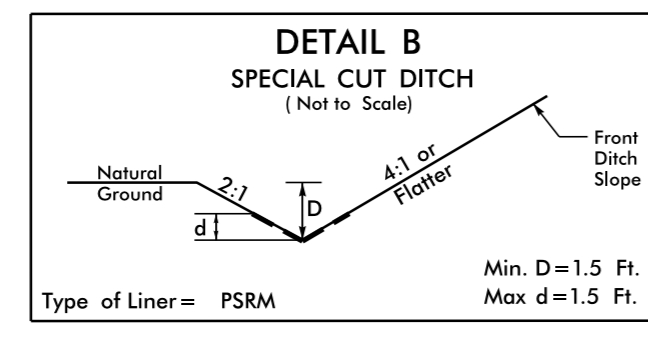
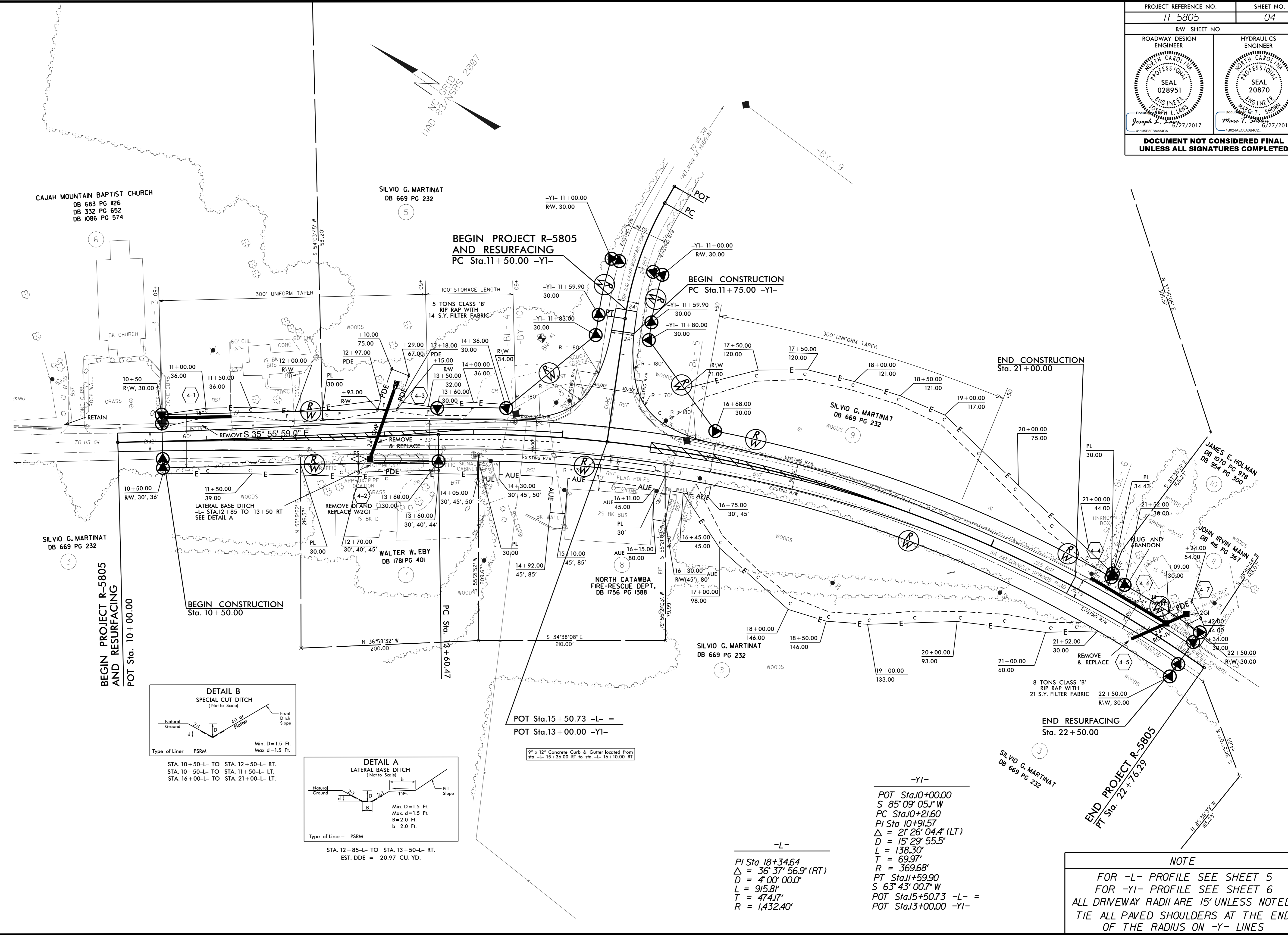
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- 15+00.00	15+50.00	220	78		142
-Y1- 11+50.00	12+50.00	10	9		1
-L- 15+50.00	21+00.00	34,351	51		34,300
SUBTOTALS:		34,581	138		34,443
PROJECT TOTALS:		34,581	138		34,443
LOSS DUE TO CLEARING & GRUBBING		-300			-300
GRAND TOTALS:		34,281	138		34,143
SAY:		34,300			
SHOULDER BORROW		50 CY			
DDE		30 CY			

Note: Earthwork quantities are calculated by the Division Design Construct Unit.

Note: Approximate quantities only. Fine Grading Shoulder Borrow and Clearing & Grubbing will be paid for at the contract lump sum for "Grading".



9" x 12" Concrete Curb & Gutter located from
sta.-L- 15+36.00 RT to sta.-L- 16+10.00 RT

-YI-

POT Sta 10+00.00
S 85° 09' 05.1" W
PC Sta 10+21.60
PI Sta 10+91.57
Δ = 21° 26' 04.4" (LT)
D = 15' 29' 55.5"
L = 138.30'
T = 69.97'
R = 369.68'
PT Sta 11+59.90
S 63° 43' 00.7" W
L = 915.81'
T = 474.17'
R = 1,432.40'

-L-

PI Sta 18+34.64
Δ = 36° 37' 56.9" (RT)
D = 4' 00' 00.0"
L = 915.81'
T = 474.17'
R = 1,432.40'

NOTE

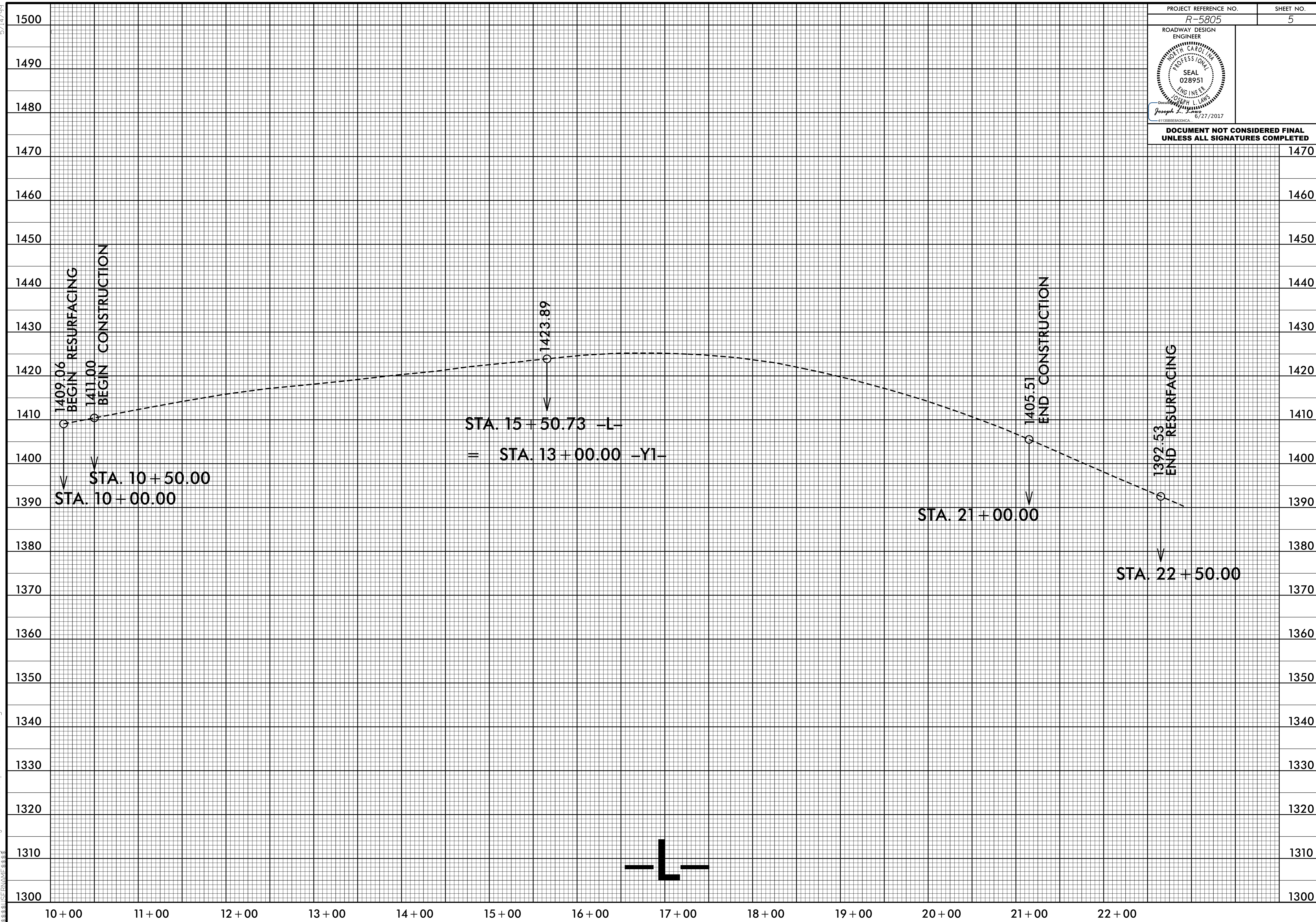
FOR -L- PROFILE SEE SHEET 5
FOR -YI- PROFILE SEE SHEET 6
ALL DRIVEWAY RADII ARE 15' UNLESS NOTED
TIE ALL PAVED SHOULDERS AT THE END
OF THE RADIUS ON -YI- LINES

8/17/17/99
26 JUN 2017 4:14 PM
C:\Users\jlong\OneDrive\Documents\Projects\R-5805\DDC-psht04.dgn
JLON

5/14/99

26 JUN 2017 14:14
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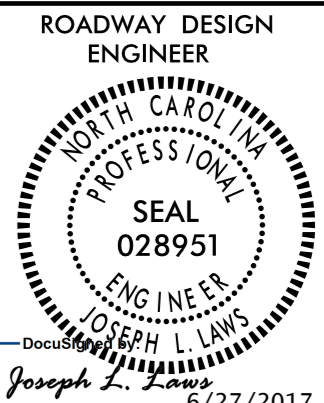
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ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



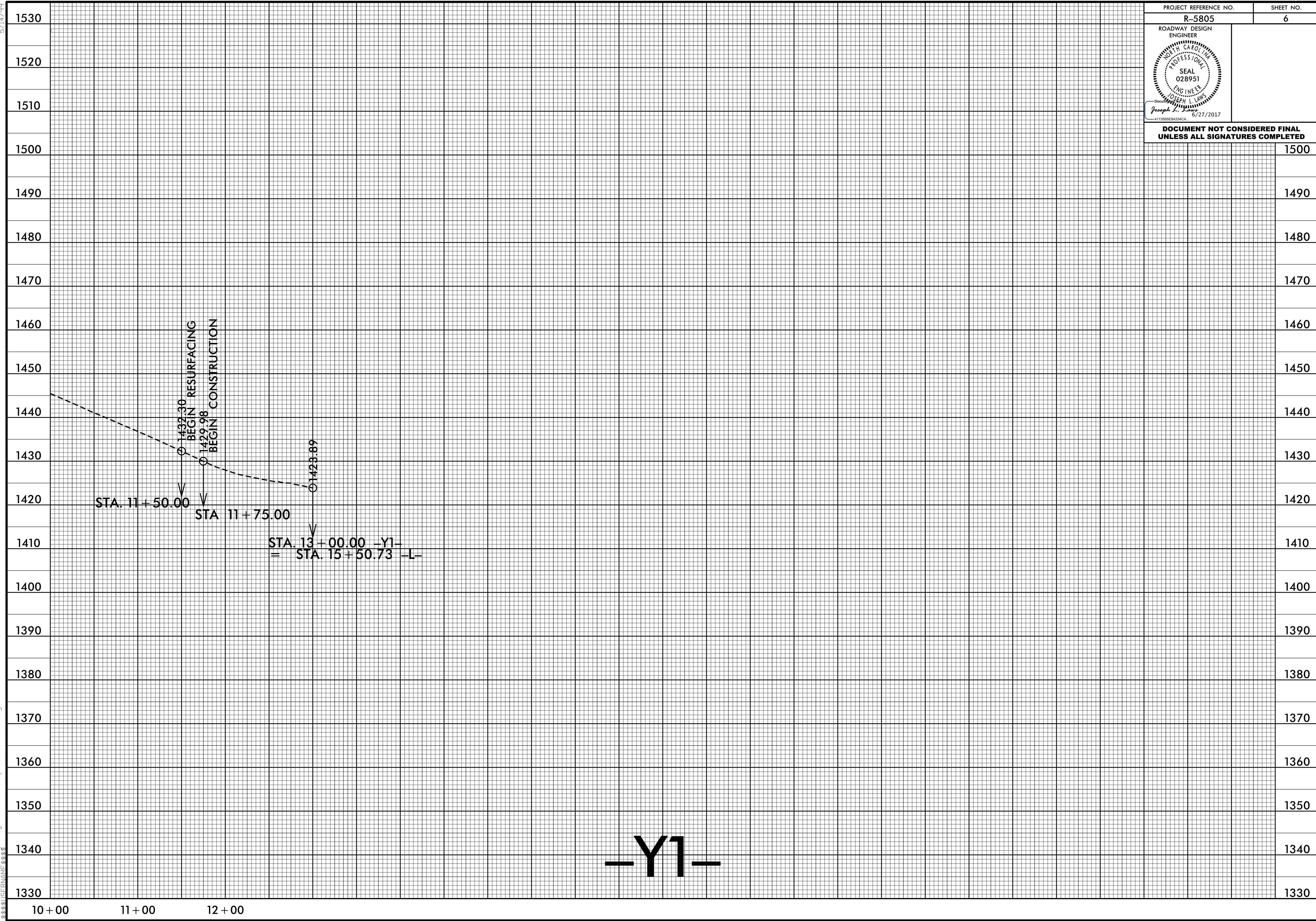
10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

5/14/99

Z:\Users\jld\Documents\Projects\R-5805\DDC.plt... Y1.sheet6.dgn

PROJECT REFERENCE NO. R-5805	SHEET NO. 6
ROADWAY DESIGN ENGINEER	
	
Documented by: <i>Joseph L. Jones</i> Date: 6/27/2017 4113686RA334CA	

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



-Y1-

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CALDWELL COUNTY

LOCATION: INTERSECTION OF SR 1001 (CONNELLY SPRINGS RD.) AND SR 1130 (CAJAH MTN. RD.)

TYPE OF WORK: PAVEMENT MARKING PLAN

TIP NO. SHEET NO.

R-5805 PMP-1

APPROVED: _____

DATE: _____

SEAL

TIP PROJECT: R-5805

CONTRACT: DK00220

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES 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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.05	PAVEMENT MARKINGS - TURN LANES
1250.01	RASISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RASISED PAVEMENT MARKERS - SNOWFLOWABLE

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY	UNIT
FINAL PAVEMENT MARKINGS			
TA	THERMOPLASTIC (4", 90 MIL)	2767	LINEAR FOOT
	WHITE EDGE LINE		
TB	THERMOPLASTIC (4", 120 MIL)	150	LINEAR FOOT
	WHITE 3 FT.- 9 FT.SP MINISKIP		
TI	YELLOW DOUBLE CENTER LINE X 2	3834	LINEAR FOOT
TC	THERMOPLASTIC (12", 120 MIL)	72	LINEAR FOOT
	WHITE STOP BAR		
TD	THERMOPLASTIC (8", 90 MIL)	68	LINEAR FOOT
	WHITE GORE LINE		
TJ	YELLOW GORE LINE	118	LINEAR FOOT
↑	THERMOPLASTIC (90 MIL)	3	EACH
	TURN ARROW SYMBOL		
↓	THERMOPLASTIC (90 MIL)	1	EACH
	STRAIGHT ARROW SYMBOL		
MARKERS			
•	SNOWFLOWABLE RAISED PAVEMENT MARKERS	17	EACH
	CRYSTAL /RED		
•	YELLOW /YELLOW	48	EACH
	CRYSTAL /YELLOW		

GENERAL NOTES

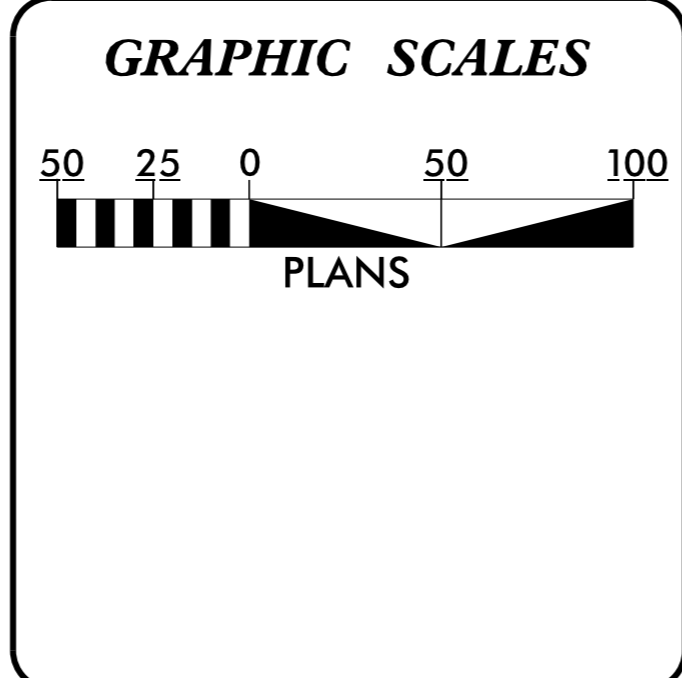
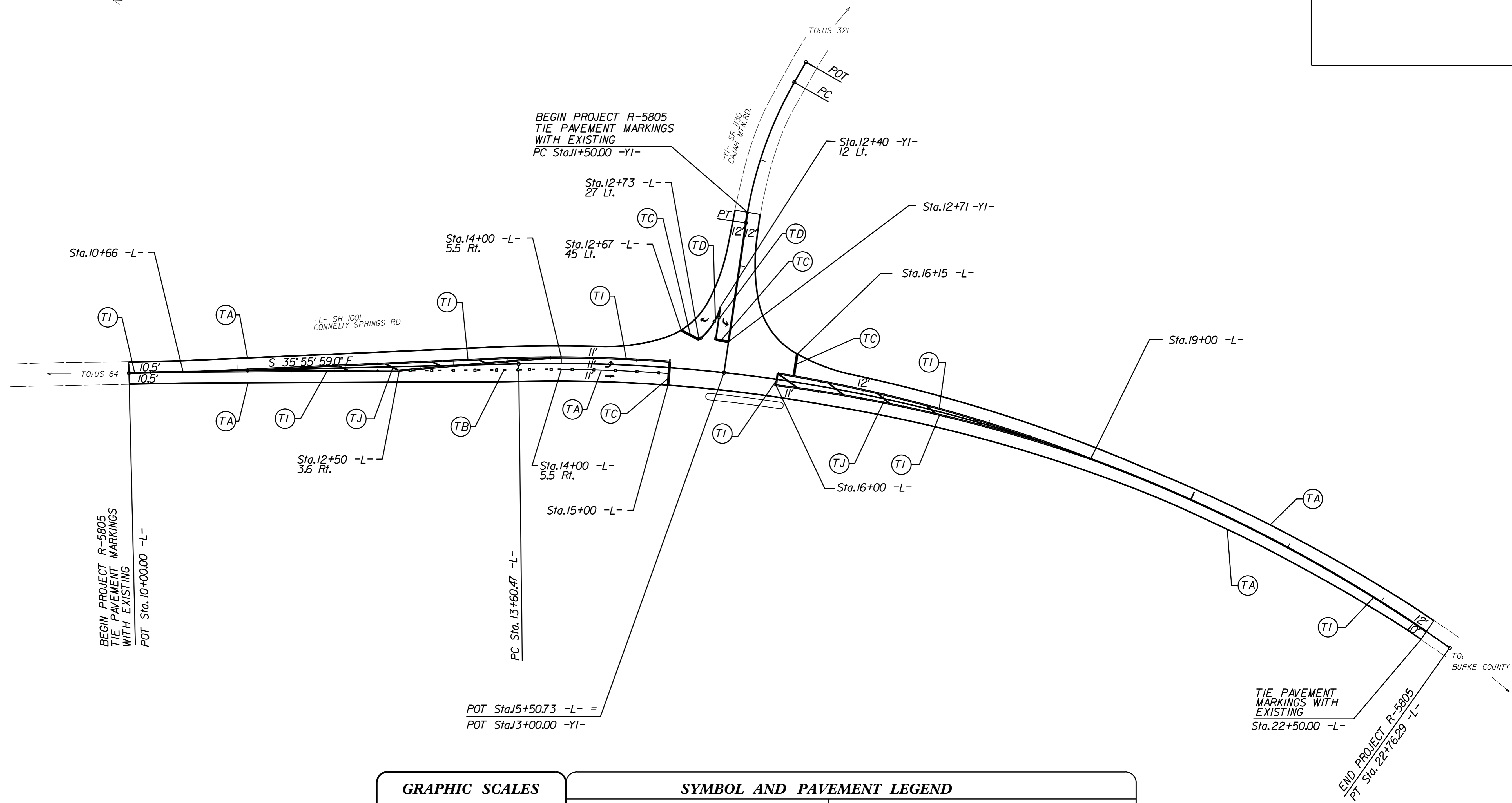
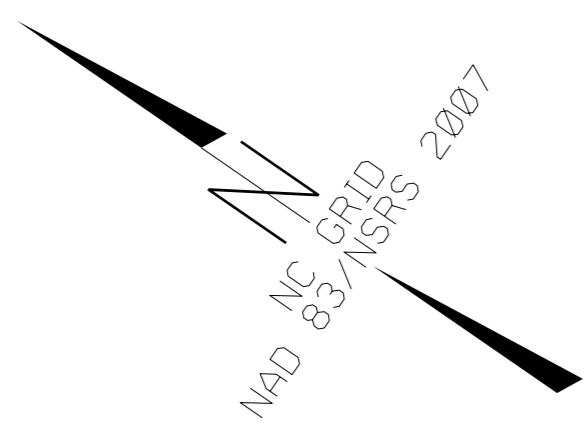
THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------|---------------|--------------|
| SR 1001 | THERMOPLASTIC | SNOWFLOWABLE |
| SR 1130 | THERMOPLASTIC | SNOWFLOWABLE |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BY USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEAT-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2	PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-5805	PMP-2
APPROVED: _____	
DATE: _____	
SEAL	



SYMBOL AND PAVEMENT LEGEND

THERMOPLASTIC:	THERMOPLASTIC:
↗ TURN ARROW (90 MIL)	(TA) WHITE EDGELINE (4" 90 MIL)
→ STRIGHT ARROW (90 MIL)	(TB) WHITE 3 FT.- 9FT./SP.MINISKIP (4" 120 MIL)
◻ CRYSTAL/RED SNOWPLOWABLE MARKER	(TC) WHITE STOP BAR (24" 120 MIL)
• YELLOW/YELLOW SNOWPLOWABLE MARKER	(TD) WHITE GORE LINE (8" 90 MIL)
	(TI) YELLOW DOUBLE CENTER LINE (4" 120 MIL)
	(TJ) YELLOW GORE LINE (8" 90 MIL)

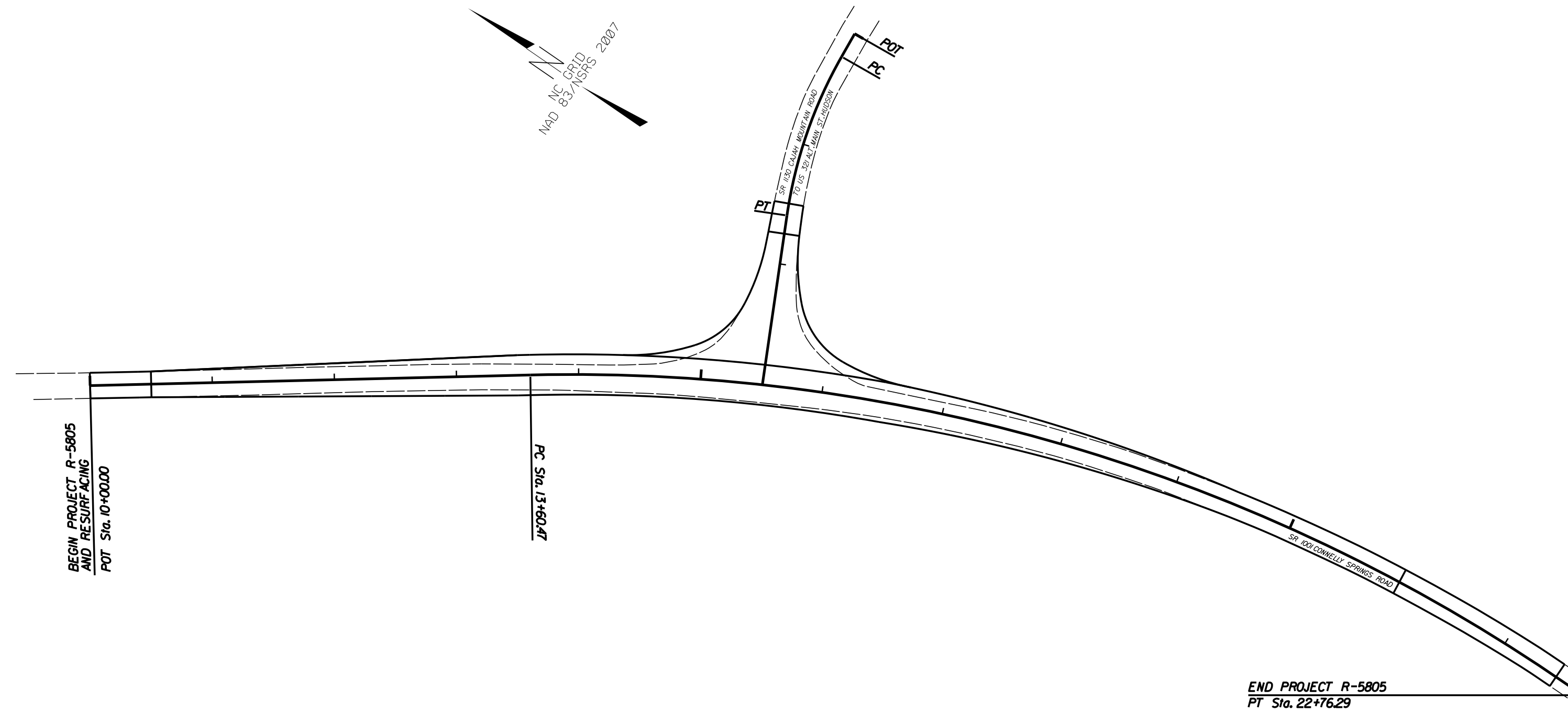
PAVEMENT MARKING DETAIL

TIP PROJECT: R-5805

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
 CALDWELL COUNTY

**LOCATION: INTERSECTION OF SR 1130 (CAJAH MOUNTAIN ROAD)
 AND SR 1001 CONNELLY SPRINGS ROAD**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND RESURFACING



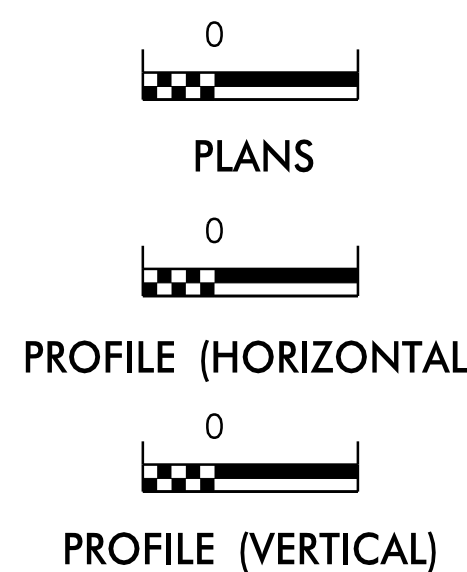
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5805	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	— T —
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	⊗
1633.02	Temporary Rock Silt Check Type-B	▶
	Wattle/Coir Fiber Wattle	— W —
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	⊗
1634.01	Temporary Rock Sediment Dam Type-A	▨
1634.02	Temporary Rock Sediment Dam Type-B	▨
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊓
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊓
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

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

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
 WITH THE REGULATIONS SET FORTH BY THE
 NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011
 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
 NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2012 STANDARD SPECIFICATIONS

Designed by:
Wes Chandler **3374**
 NAME LEVEL III CERTIFICATION NO.

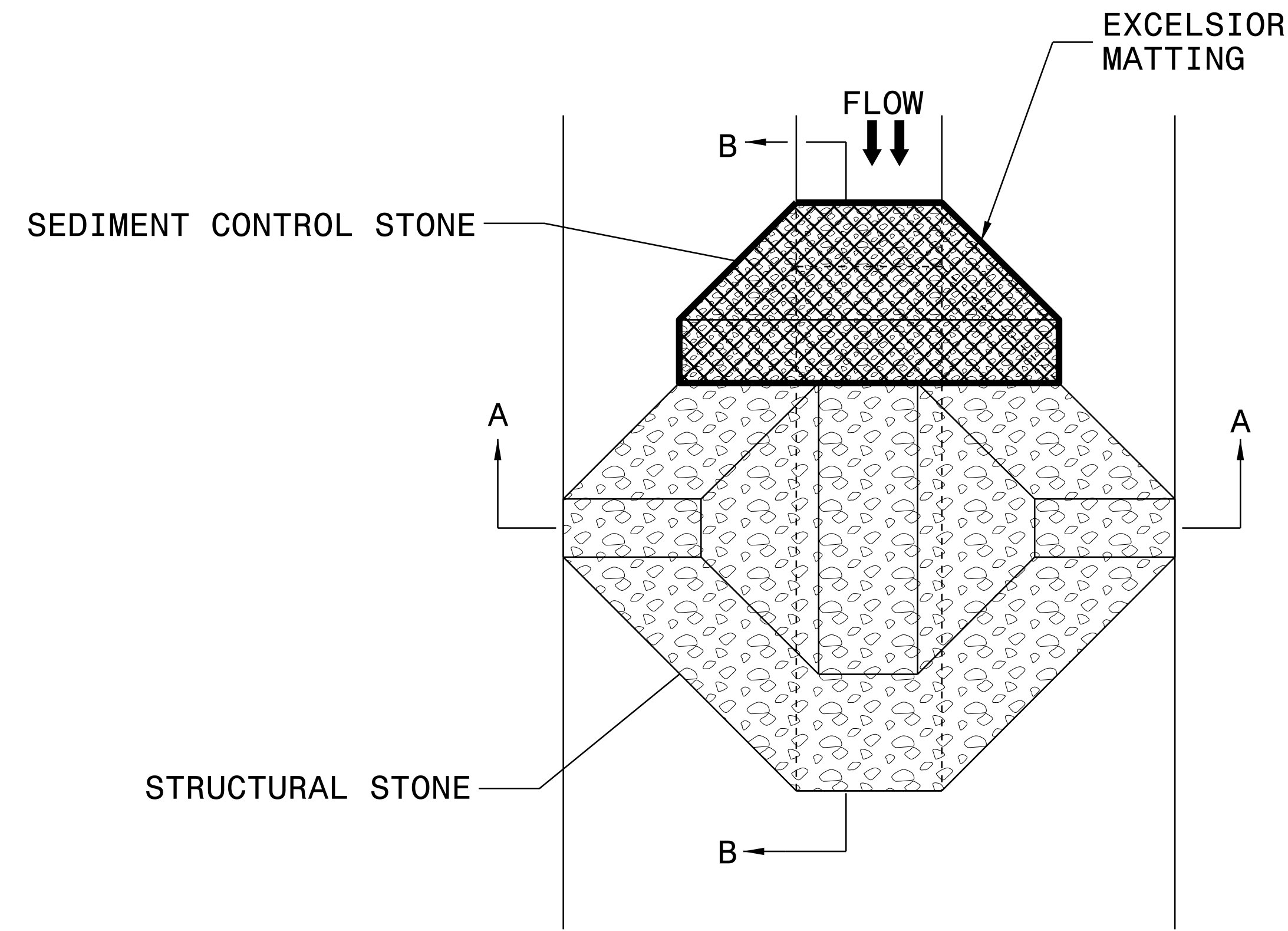
Roadway Standard Drawings

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

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

PROJECT REFERENCE NO. <i>R-5805</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN

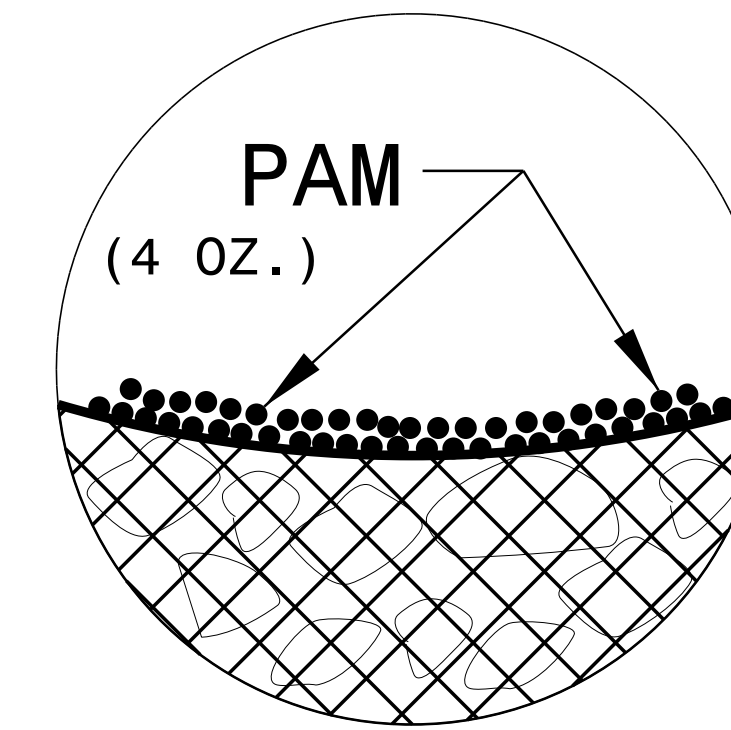
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

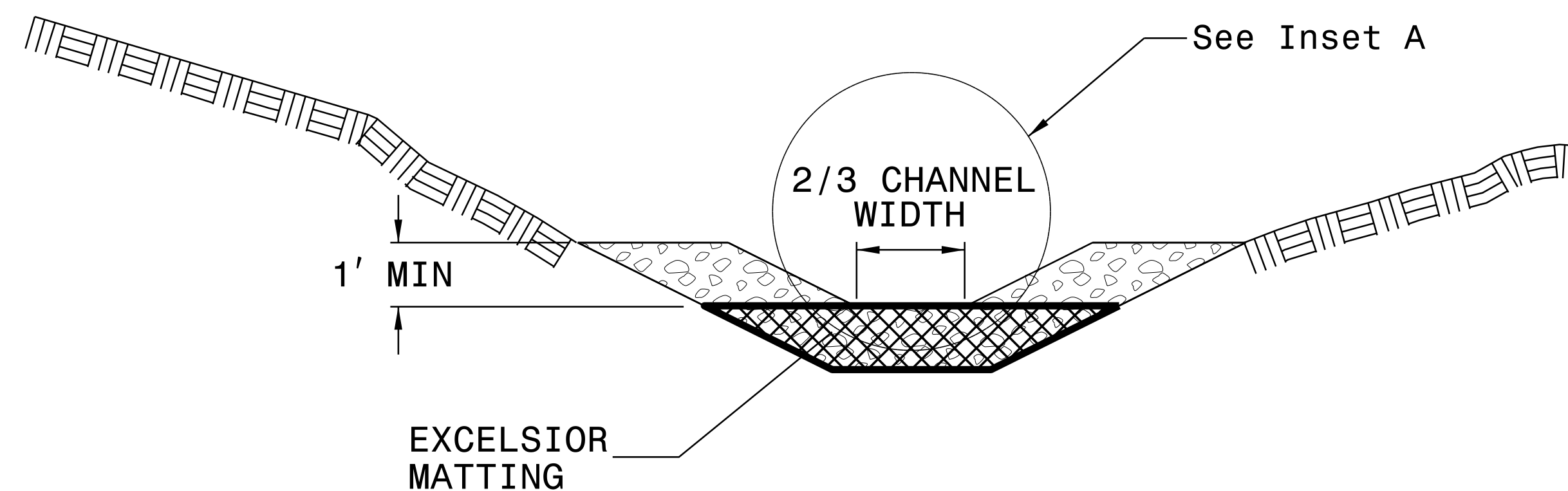
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

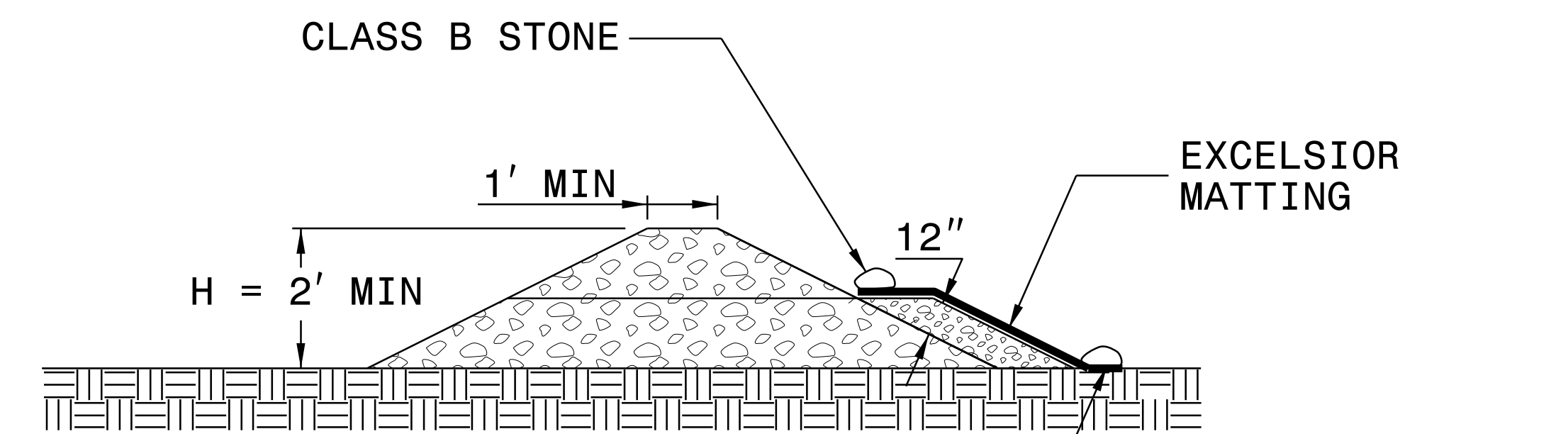
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A

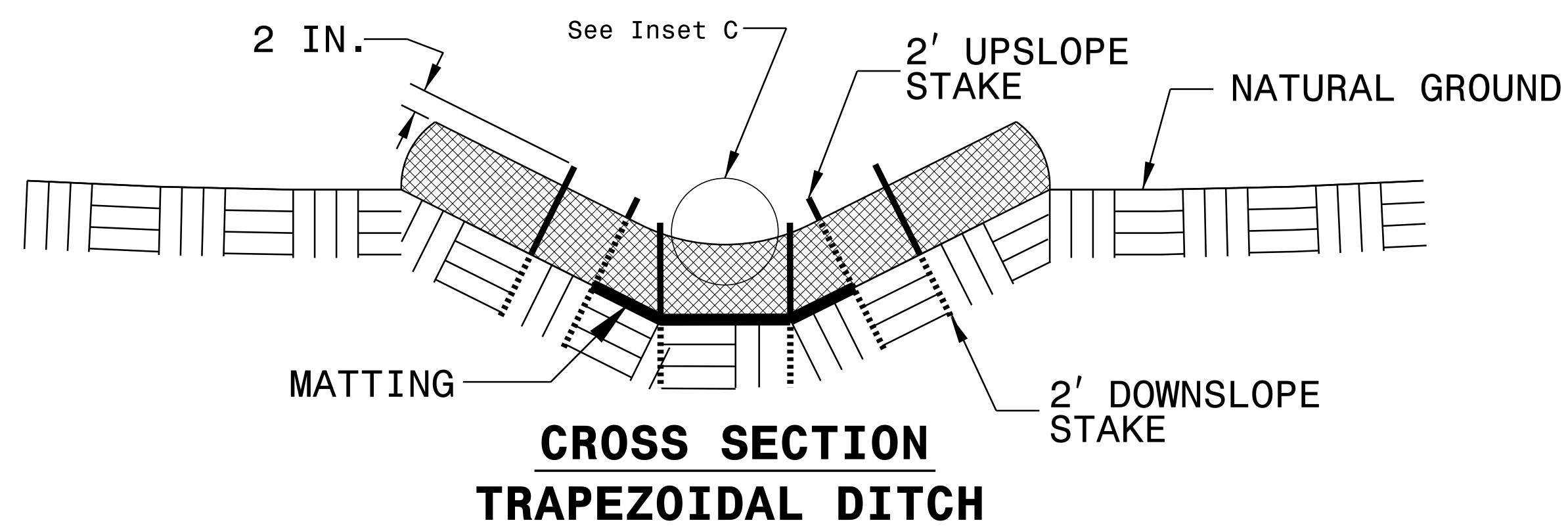
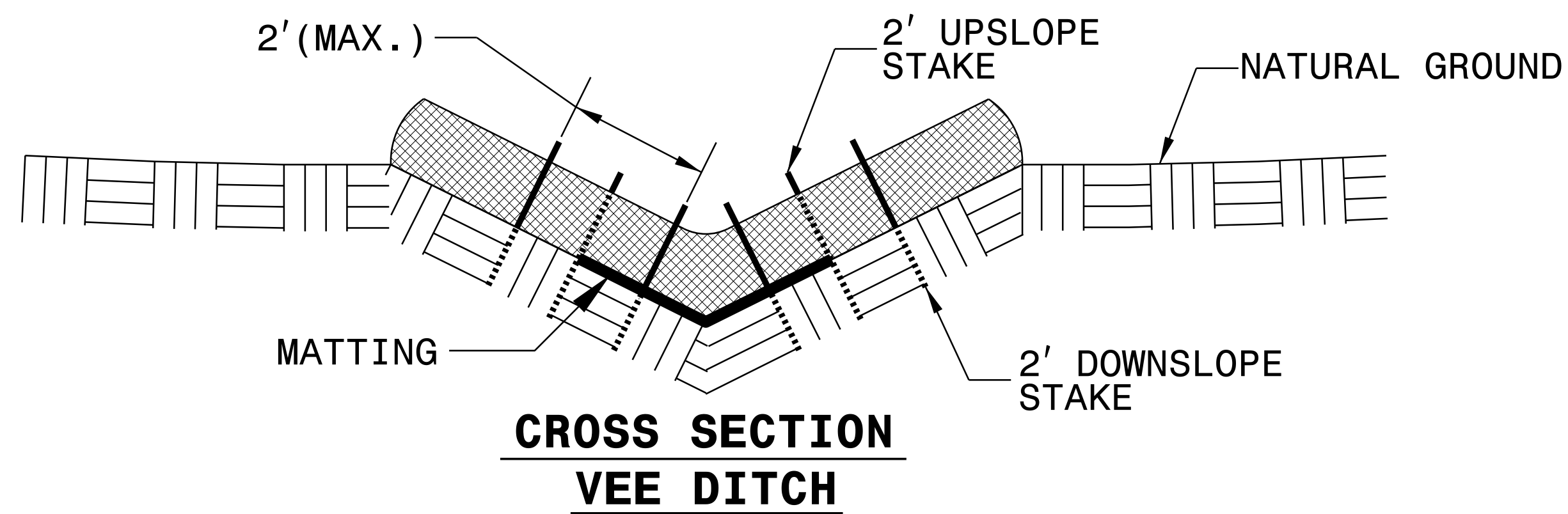
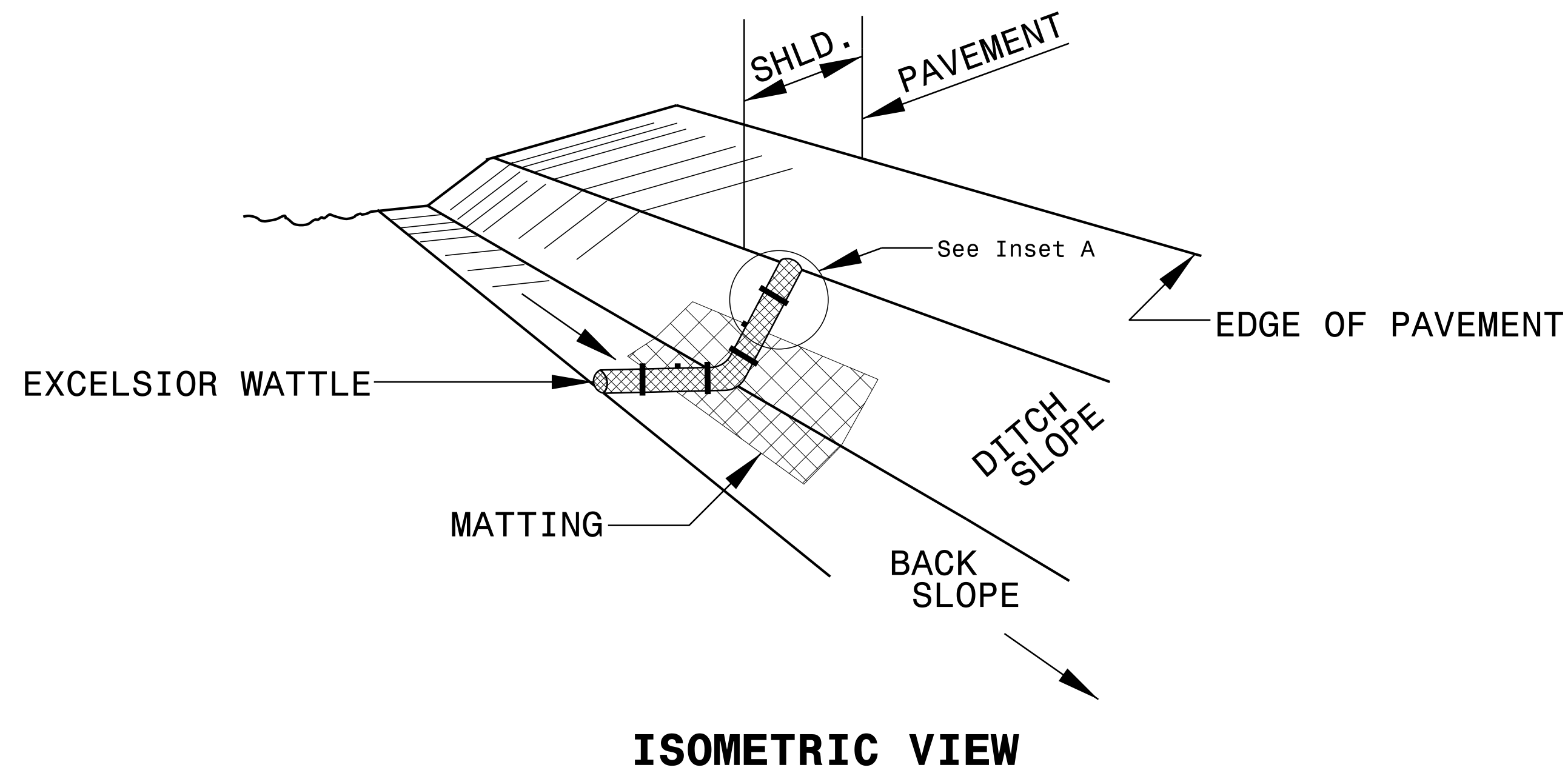


SECTION B-B

NOT TO SCALE

PROJECT REFERENCE NO. <i>R-5805</i>	SHEET NO. <i>EC-2A</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

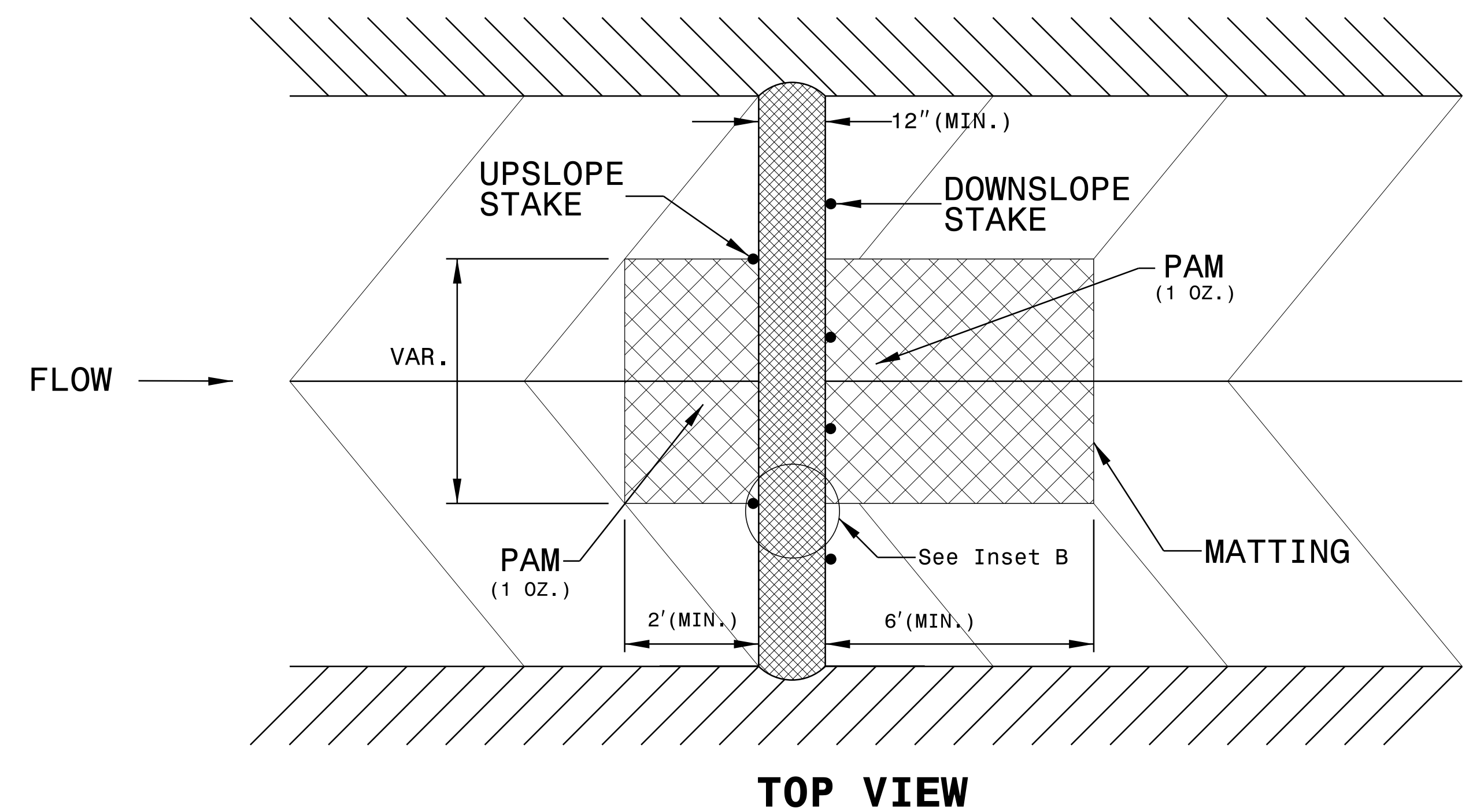
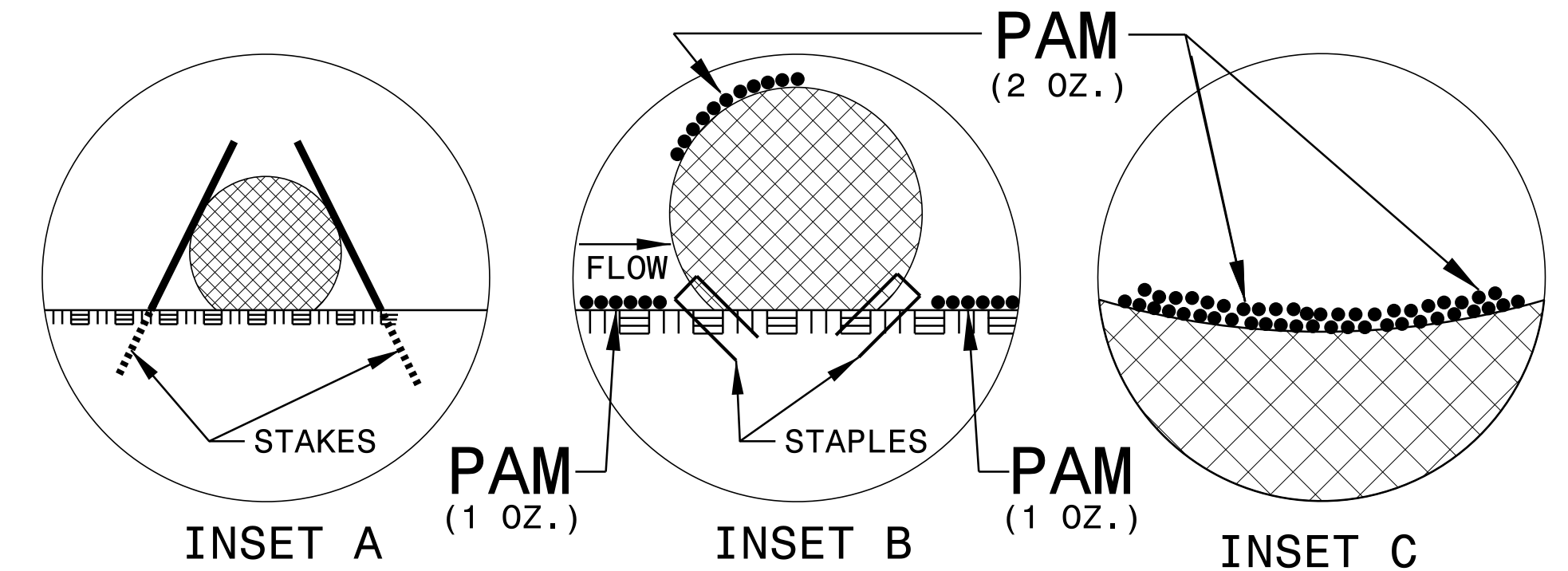
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
R-5805	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

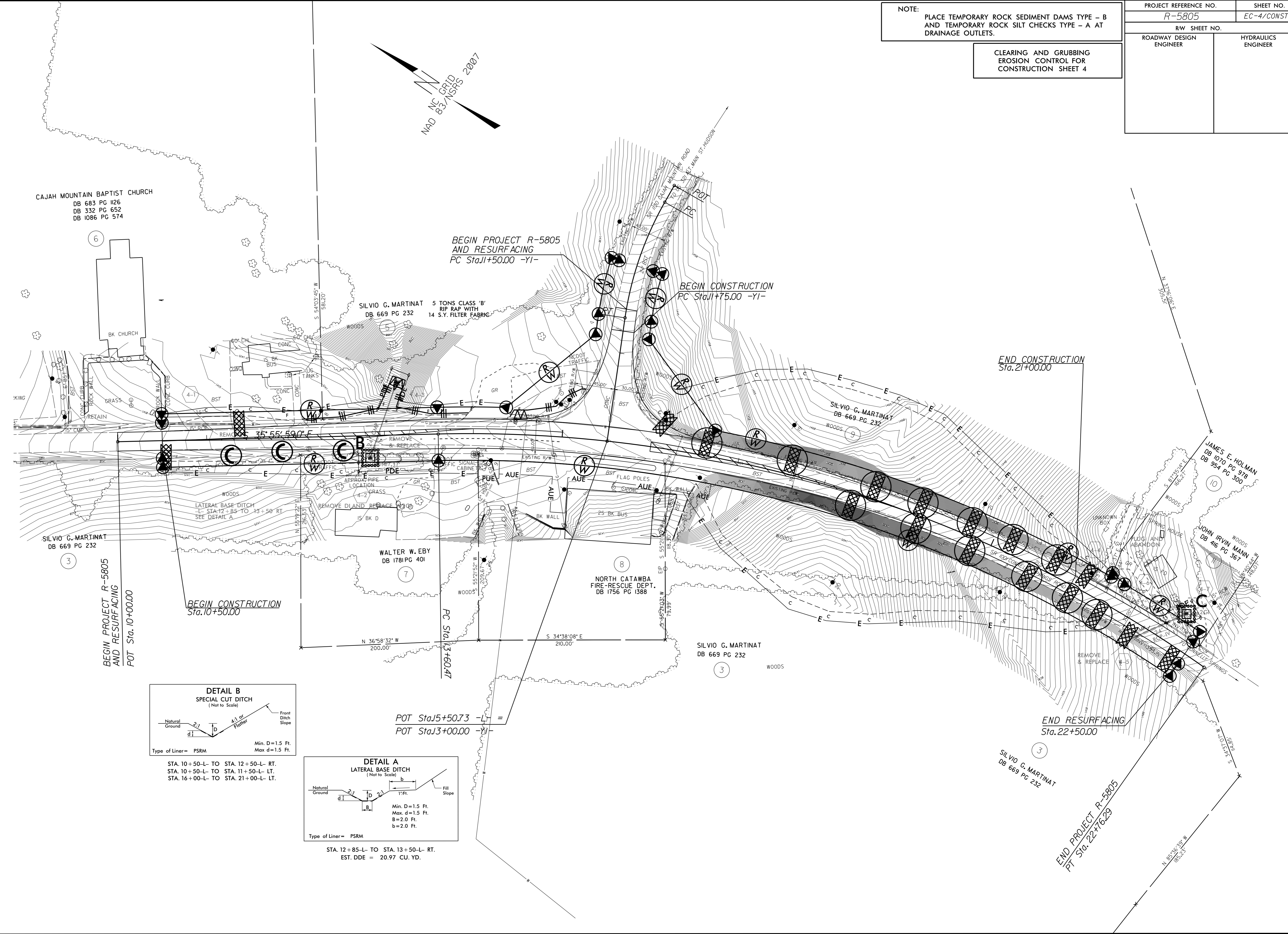
SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

PROJECT REFERENCE NO. <i>R-5805</i>	SHEET NO. <i>EC-4/CONST.4</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CAJAH MOUNTAIN BAPTIST CHURCH
DB 683 PG 1126
DB 332 PG 652
DB 1086 PG 574

SILVIO G. MARTINAT
DB 669 PG 232

SILVIO G. MARTINAT
DB 669 PG 232
5 TONS CLASS 'B' RIP RAP WITH 14 S.Y. FILTER FABRIC

WALTER W. EBY
DB 1781 PG 401

NORTH CATAWBA FIRE-RESCUE DEPT.
DB 1756 PG 1388

SILVIO G. MARTINAT
DB 669 PG 232

JAMES E. HOLMAN
DB 1070 PG 978
DB 954 PG 300

JOHN IRVIN MANN
DB 416 PG 367

BEGIN PROJECT R-5805 AND RESURFACING
POT Sta. 10+00.00

BEGIN CONSTRUCTION
Sta. 10+50.00

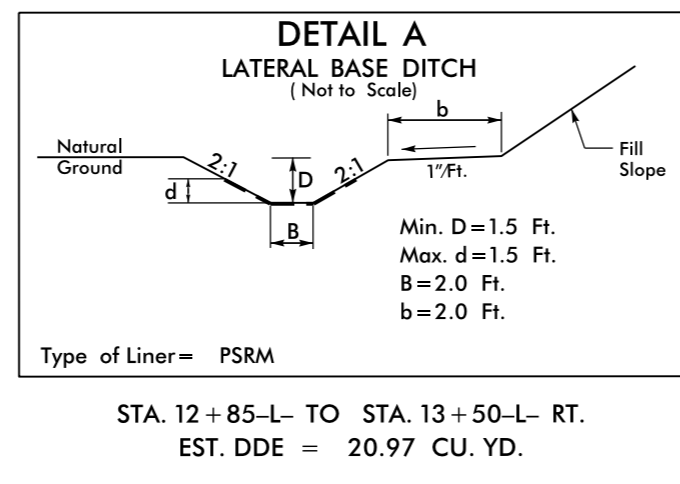
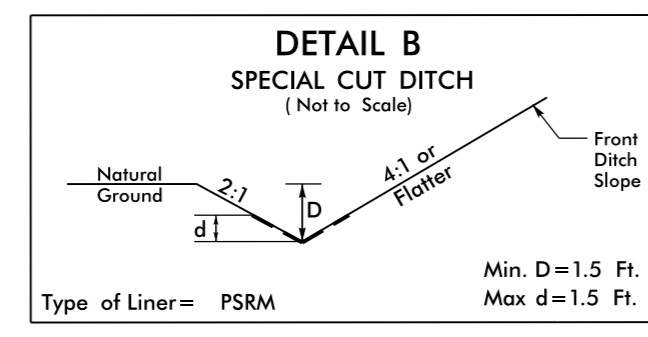
BEGIN PROJECT R-5805 AND RESURFACING
PC Sta. 11+50.00 -Y1-

BEGIN CONSTRUCTION
PC Sta. 11+75.00 -Y1-

END CONSTRUCTION
Sta. 21+00.00

END RESURFACING
Sta. 22+50.00

END PROJECT R-5805
PT Sta. 22+76.29

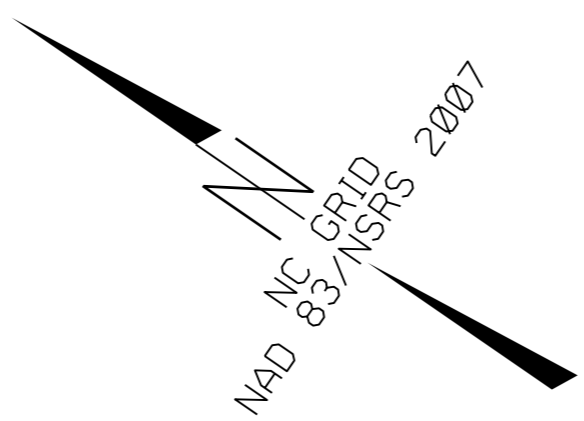
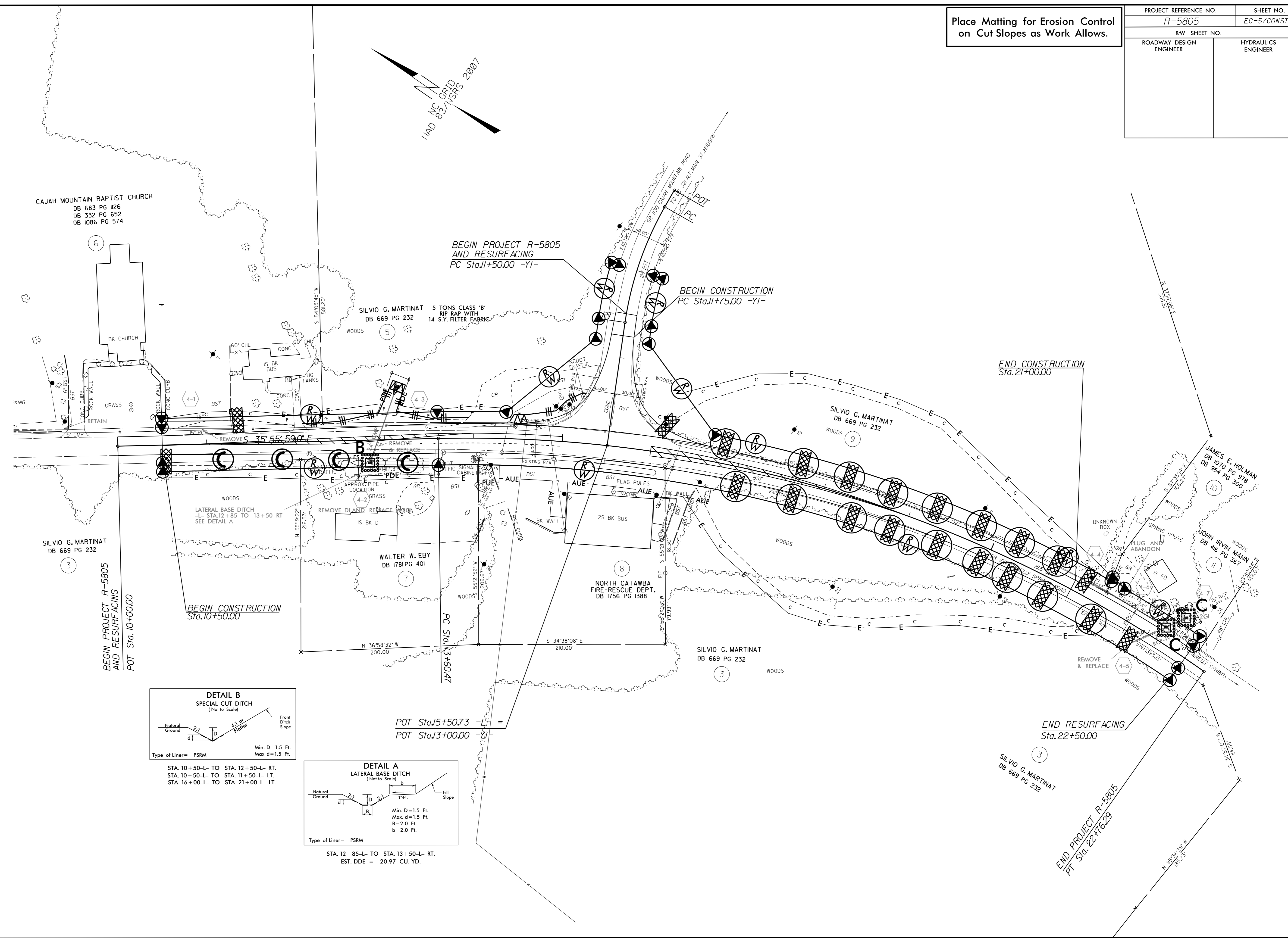


POT Sta. 15+50.73 -L-
POT Sta. 13+00.00 -Y1-

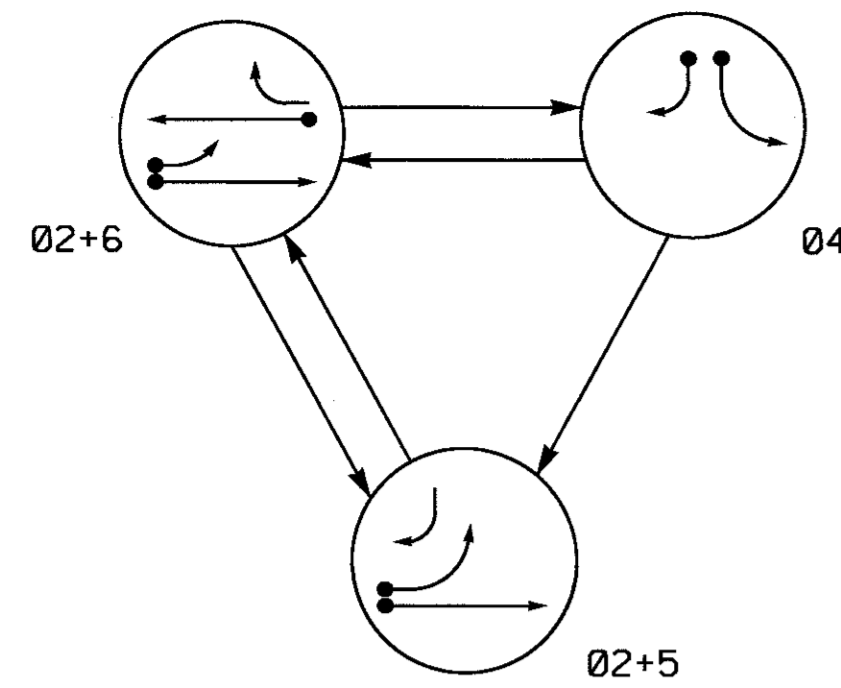
PROJECT REFERENCE NO. <i>R-5805</i>	SHEET NO. <i>EC-5/CONST.4</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control on Cut Slopes as Work Allows.

02-MAY-2017 13:21 C:\Users\m.johnson\Documents\Division Jobs\Calwell\County\R-5805\Erosion Control\Final Plans & Quantities\R-5805-EC.psh04.dgn



PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- ← ● → DETECTED MOVEMENT
- ← — → UNDETECTED MOVEMENT (OVERLAP)
- ← - - - → UNSIGNALIZED MOVEMENT
- ← - - - - - → PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	0 2 + 5	0 2 + 6	0 4	F L FOOT
21,22	G	G	R	Y
41	R	R	G	R
42	R	R	G	R
51	-	-	-	-
61,62	R	G	R	Y

TABLE OF OPERATION

SIGNAL FACE	INTERVAL	
	1	2
63	ON	OFF
64	OFF	ON

SIGNAL FACE I.D.

All Heads L.E.D.

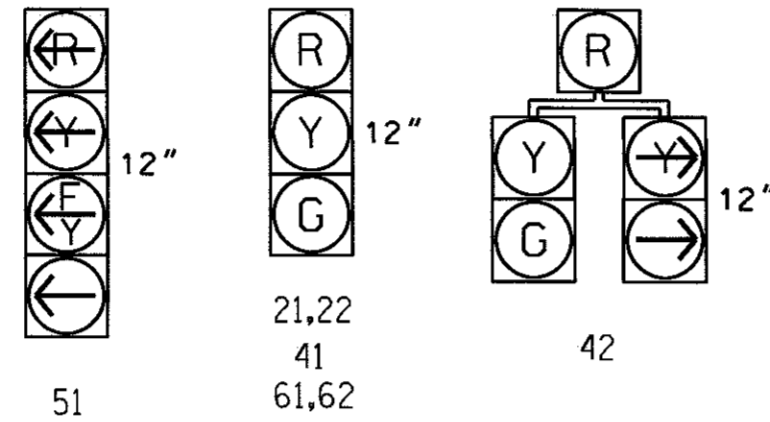
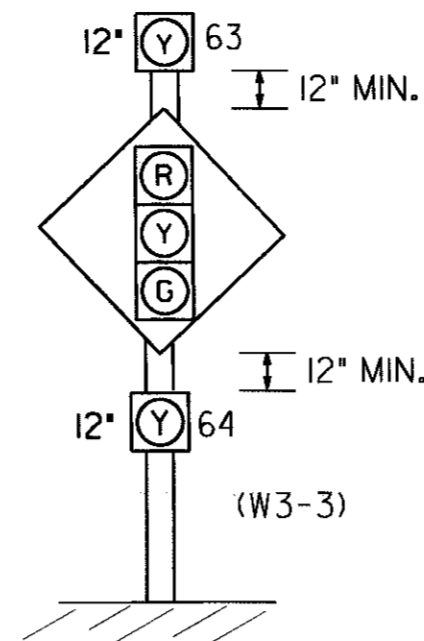


Figure 1



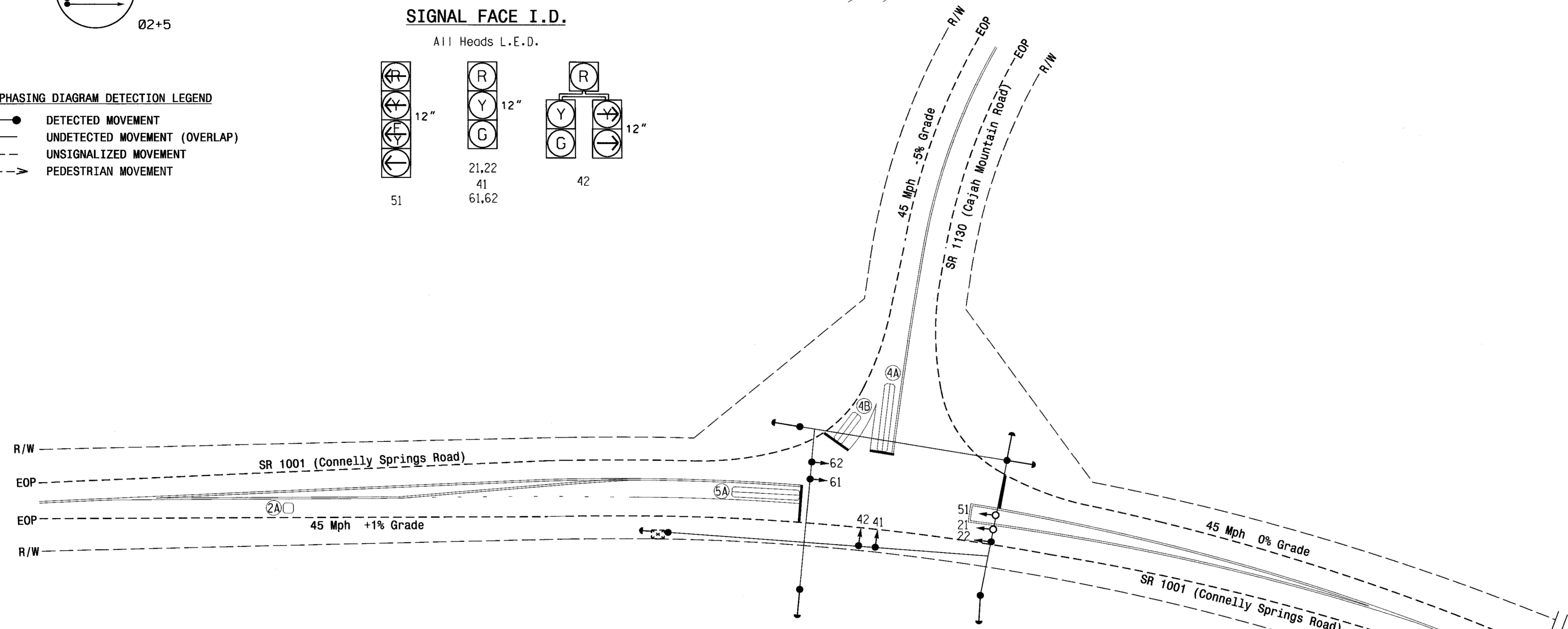
OASIS 2070L LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
2A	6X6	300	3	Y	2	Y	Y	-	-	-	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	5	-
4B	6X20	0	2-4-2	Y	4	Y	Y	-	-	15	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-
6A	6X6	300	6	Y	6	Y	Y	-	-	3	-

3 Phase Fully Actuated (Isolated)

NOTES

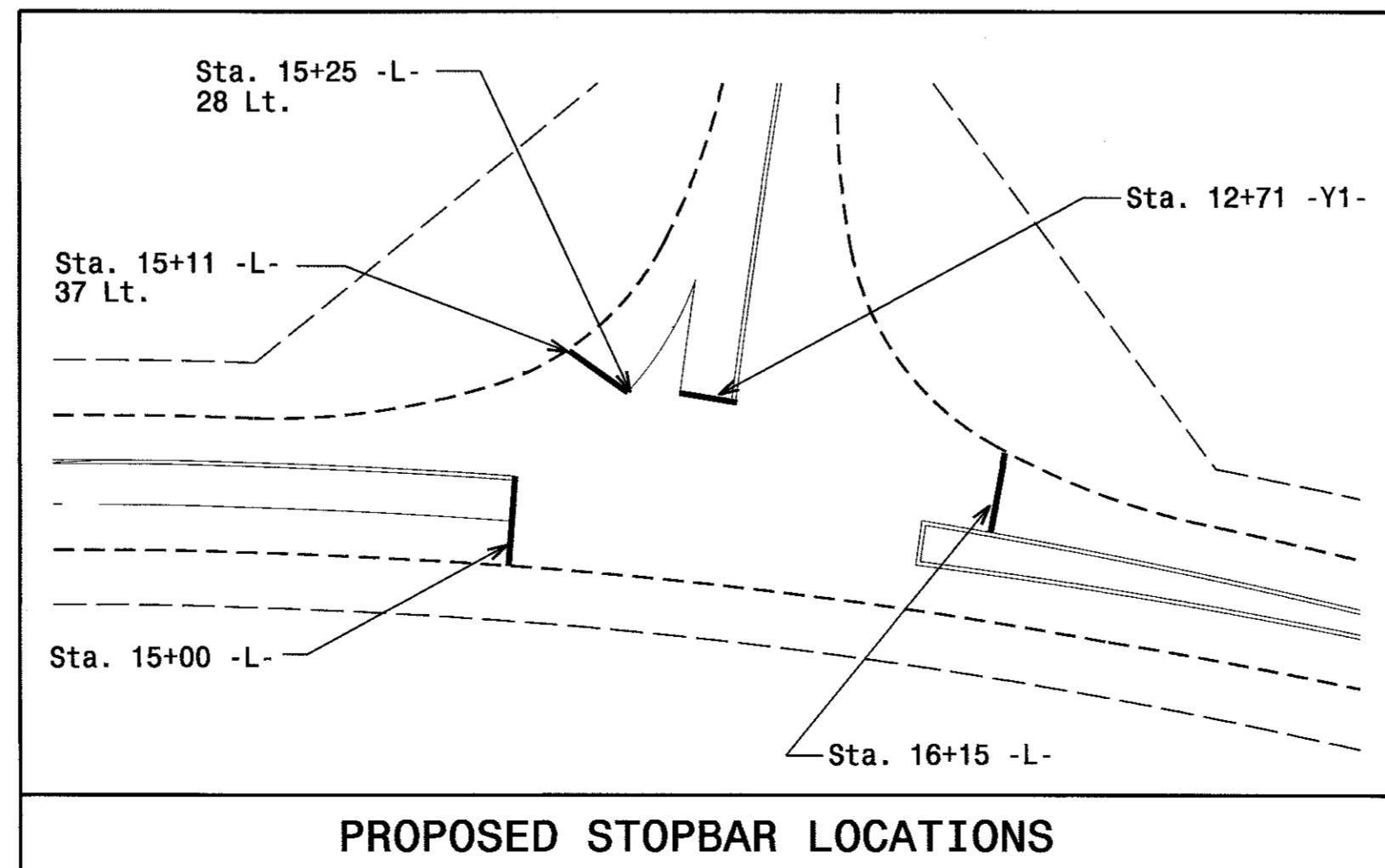
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. Flash beacons on Sign A continuously.
5. Reposition existing signal head #22.



OASIS 2070L TIMING CHART

FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	12	7	7	12
Extension 1 *	6.0	2.0	2.0	6.0
Max Green 1 *	60	25	15	60
Yellow Clearance	4.5	3.1	3.0	4.5
Red Clearance	1.7	2.1	2.1	1.7
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	2.5	-	-	2.5
Max Variable Initial *	34	-	-	34
Time Before Reduction *	15	-	-	15
Time To Reduce *	30	-	-	30
Minimum Gap	3.0	-	-	3.0
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



LEGEND

PROPOSED	EXISTING

(See Figure 1)

Signal Upgrade Corr. File No. 11-11-201

SR 1001 (Connelly Springs Road) at SR 1130 (Cajah Mtn. Road)

Division 11 Caldwell County Cajah Mountain

PLAN DATE: October 2012 REVIEWED BY: _____

PREPARED BY: B.E. Wynn REVIEWED BY: _____

SCALE: 1" = 40'

REVISIONS: _____

INIT. DATE

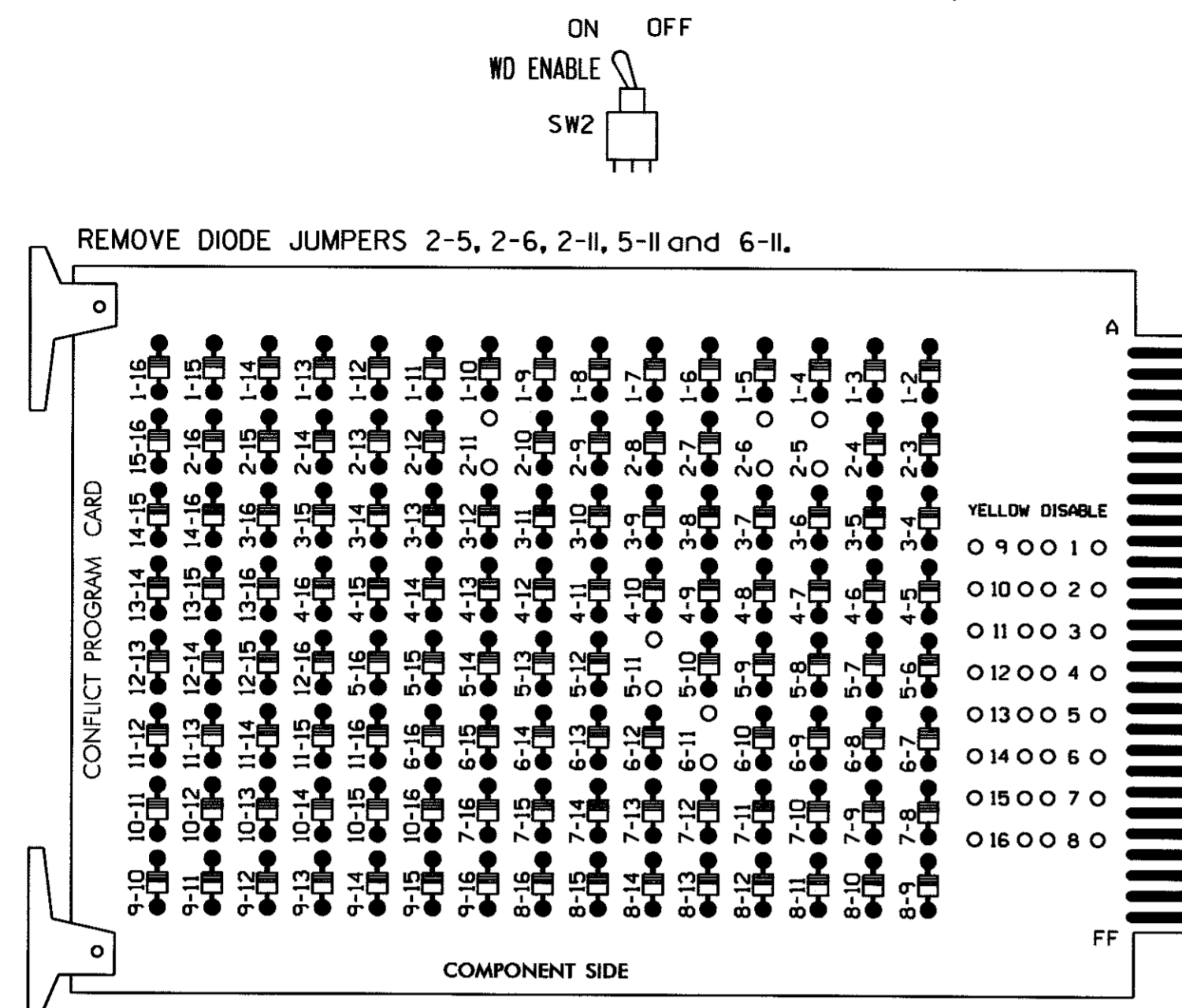
SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 30530

SIGNATURE: _____ DATE: 11/11/12

SIG. INVENTORY NO. 11-1086

**EDI MODEL 2010ECL-NC CONFLICT MONITOR
PROGRAMMING DETAIL**

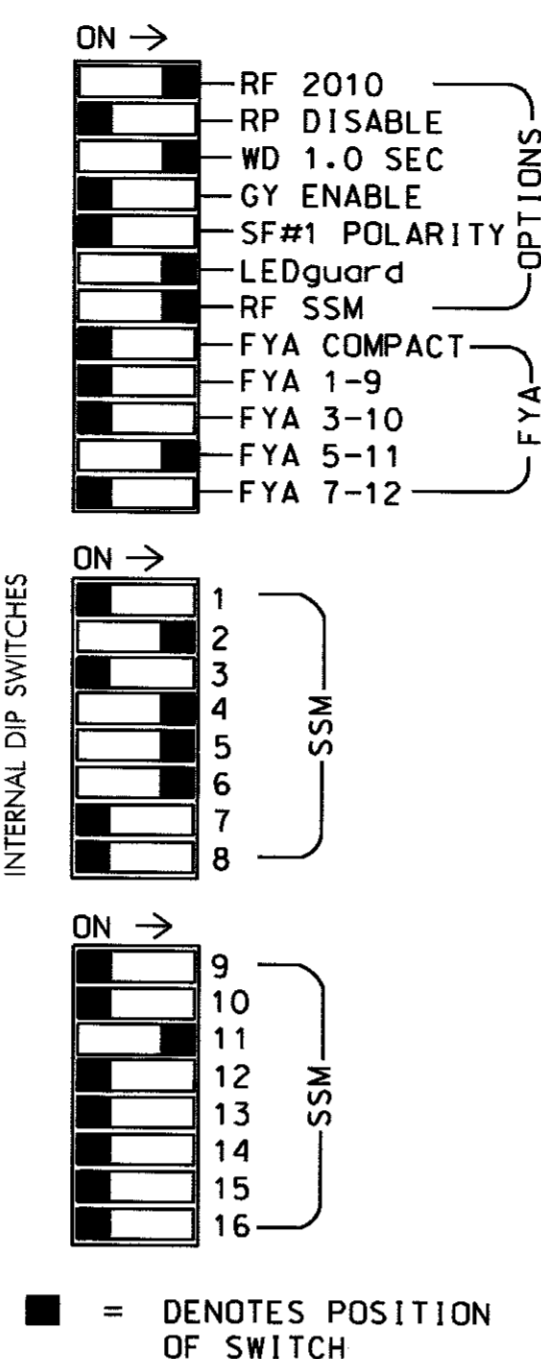
(remove jumpers and set switches as shown)



REMOVE JUMPERS AS SHOWN

NOTES:

- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Make sure jumpers SEL2-SEL5 are present on the monitor board.



NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
- Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 1,3, 7,8,9,10,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2 and 6 for Yellow Flash.

EQUIPMENT INFORMATION

CONTROLLER.....2070L
 CABINET.....332 /W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S2,S4,S5,S6,S12
 PHASES USED.....2,4,5,6
 OVERLAP "A".....NOT USED
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 OVERLAP "D".....NOT USED

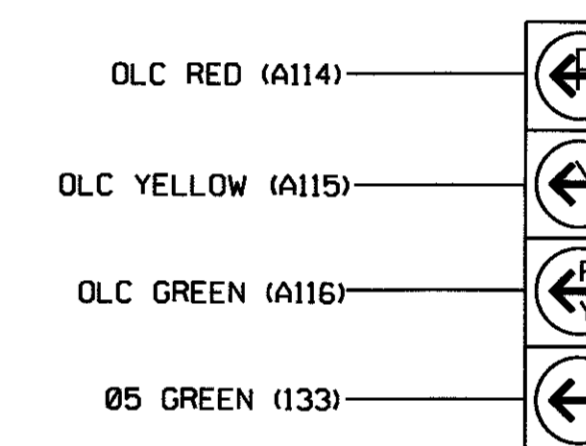
SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	9	10	11	12	13	14
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	42	51*	61,62	NU	NU	NU	NU	NU	NU	51*	NU	NU
RED		128			101		*		134									
YELLOW		129			102				135									
GREEN		130			103				136									
RED ARROW																		A114
YELLOW ARROW								132										A115
FLASHING YELLOW ARROW																		A116
GREEN ARROW								133	133									

NU = Not Used
 * Denotes install load resistor. See load resistor installation detail this sheet.
 ★ See pictorial of head wiring in detail below.

4 SECTION FYA PPLT SIGNAL WIRING DETAIL

(wire signal head as shown)



51

NOTE

- The sequence display for this signal requires special logic programming. See sheet 2 of 2 for programming instructions.

INPUT FILE POSITION LAYOUT

(front view)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	FS
U	S	Ø 2	S	S	S	Ø 4	S	S	S	S	S	S	S	S	DC ISOLATOR
L	2A	NOT USED	4A	4B	4C	4D	4E	4F	4G	4H	4I	4J	4K	4L	ST
U	Ø 5	Ø 6	S	S	S	S	S	S	S	S	S	S	S	S	DC ISOLATOR
L	5A	6A	5B	5C	5D	5E	5F	5G	5H	5I	5J	5K	5L	5M	

EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
 ST = STOP TIME

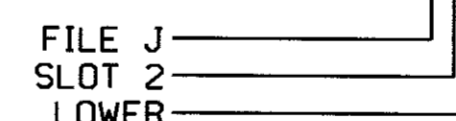
⊗ Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			5
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			15
5A ¹	TB3-1,2	J1U	55	17	5	5	Y	Y			15
		I4U	47	9	22	2	Y	Y	Y		3
6A	TB3-5,6	J2U	40	2	6	6	Y	Y			

¹Add jumper from J1-W to I4-W, on rear of input file.

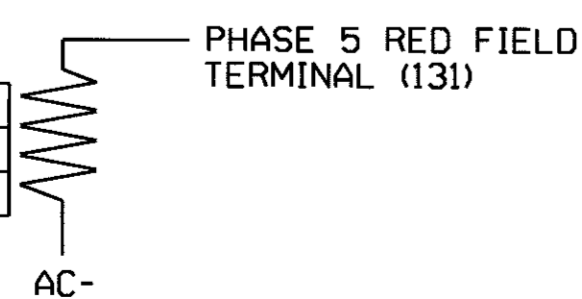
INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



NOTE: The purpose of this resistor is to load the channel red monitor input in order for the Signal Sequence Monitor to use the full signal sequence monitoring capability on channels that do not use the red display in the field.

ELECTRICAL DETAIL SHEET 1 OF 2

Electrical and Programming Details for:
 SR 1001 (Connelly Springs Road) at SR 1130 (Cajah Mtn. Road)
 Division 11 Caldwell County Cajah Mountain
 PLAN DATE: October 2012 REVIEWED BY: T. J. J.
 PREPARED BY: C. Strickland REVIEWED BY:
 REVISIONS INIT. DATE
 750 N. Greenfield Pkwy, Garner, NC 27529

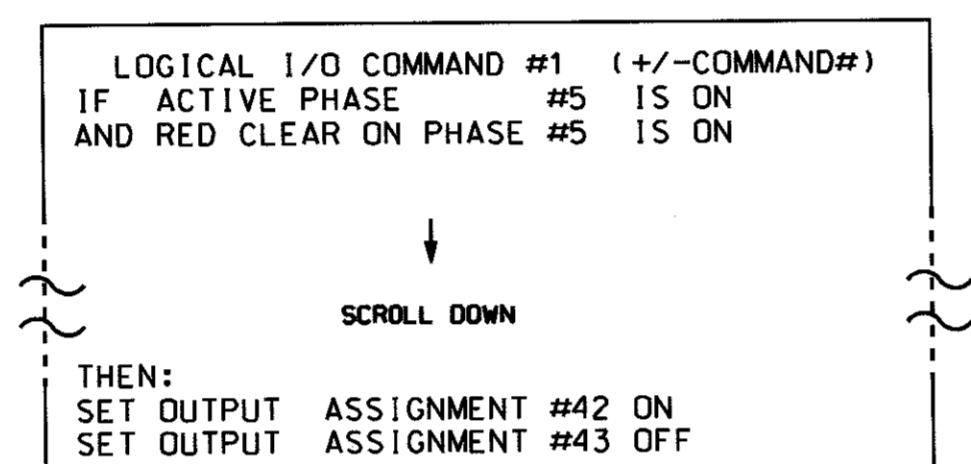
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-1086
 DESIGNED: October 2012
 SEALED: 11/07/12
 REVISED: N/A

Prepared In the Office of:
 Transportation Mobility and Safety
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 022013
 GEORGE C. BROWN
 DATE 11/9/12
 SIG. INVENTORY NO. 11-1086

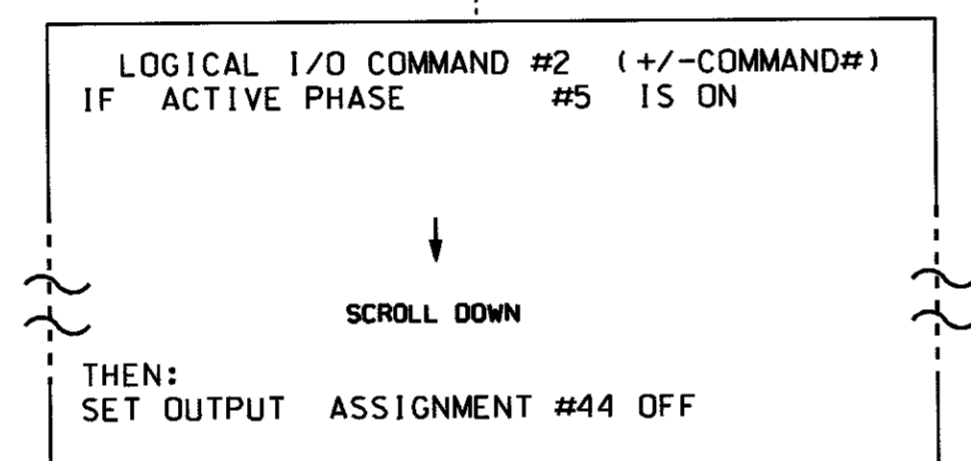
LOGICAL I/O PROCESSOR PROGRAMMING DETAIL
TO PRODUCE SPECIAL FYA-PPLT SIGNAL SEQUENCE

(program controller as shown below)

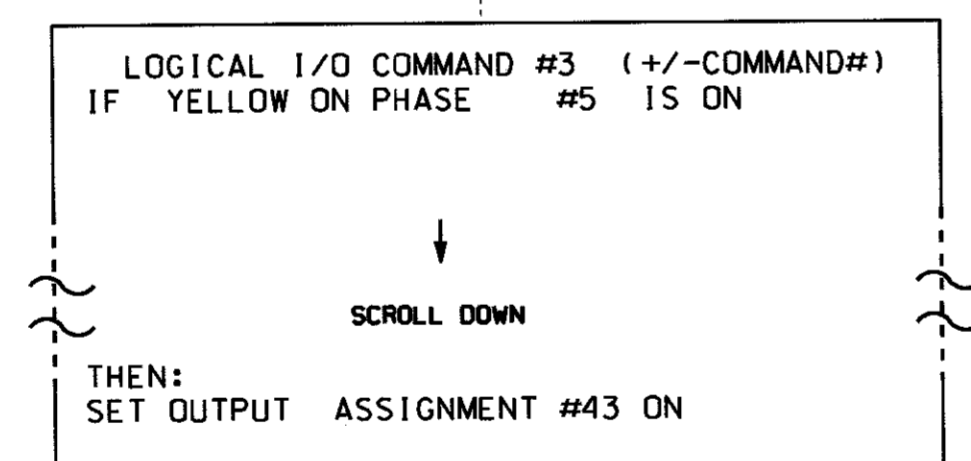
- FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE ACT LOGIC COMMANDS 1, 2 AND 3.
- FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '3' (LOGICAL I/O PROCESSOR).



NOTE: LOGIC FOR PHASE 5 RED CLEAR WHEN TRANSITIONING FROM PHASE 5 TO PHASE 6 (HEAD 51).



NOTE: LOGIC FOR SWITCHING FLASHING YELLOW ARROW "OFF" DURING PHASE 5 (HEAD 51).



NOTE: LOGIC FOR YELLOW ARROW CLEARANCE FROM PHASE 5 (HEAD 51).

LOGIC I/O PROCESSOR PROGRAMMING COMPLETE

OUTPUT REFERENCE SCHEDULE

OUTPUT 42 = Overlap C Red
 OUTPUT 43 = Overlap C Yellow
 OUTPUT 44 = Overlap C Green

OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS).

PRESS '+' TWICE

```

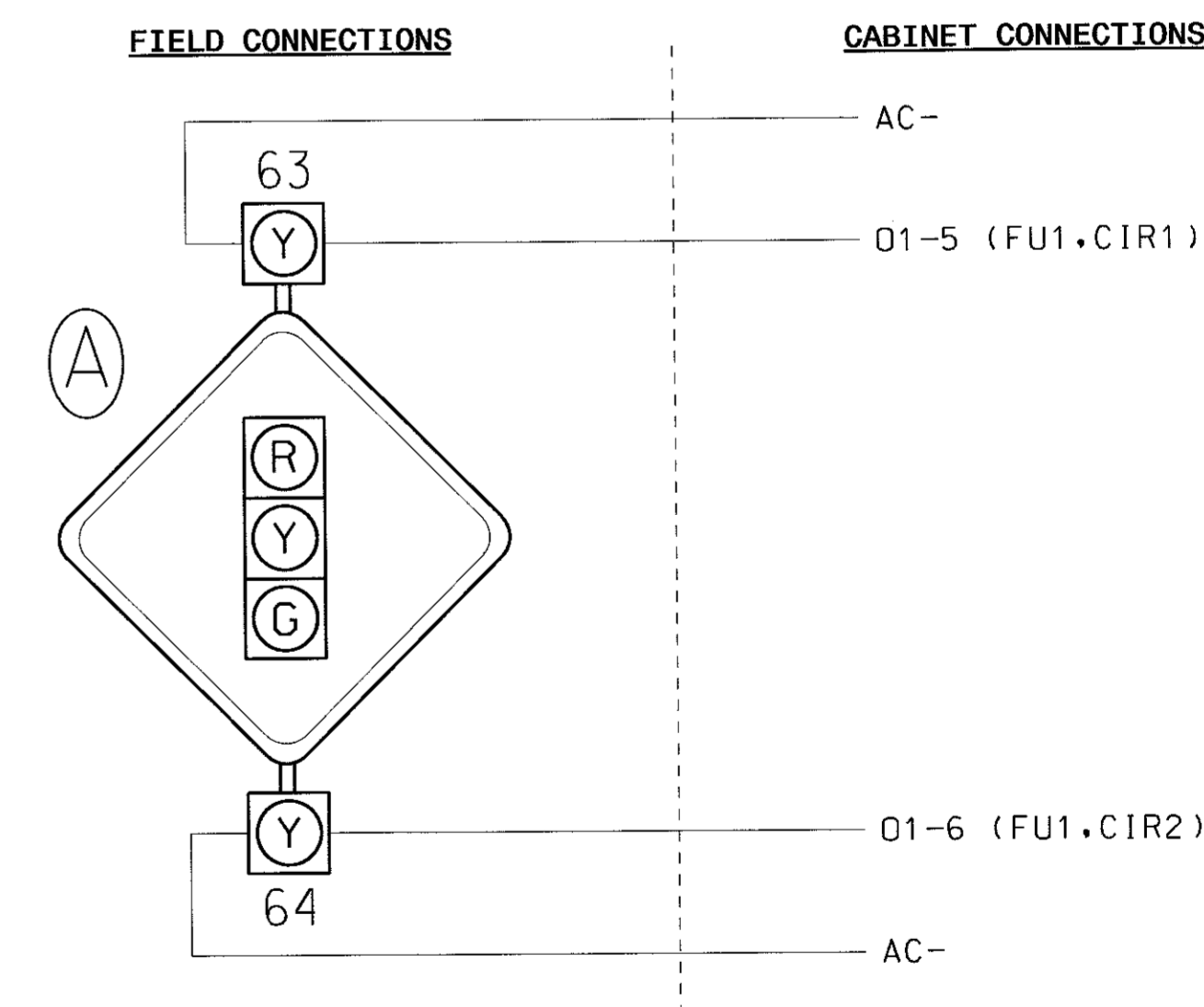
PAGE 1: VEHICLE OVERLAP 'C' SETTINGS
PHASE:           12345678910111213141516
VEH OVL PARENTS: XX
VEH OVL NOT VEH:
VEH OVL NOT PED:
VEH OVL GRN EXT:
STARTUP COLOR:  - RED  - YELLOW  - GREEN
FLASH COLORS:  - RED  - YELLOW  X GREEN
SELECT VEHICLE OVERLAP OPTIONS: (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...Y
GREEN EXTENSION (0-255 SEC)...0.0
YELLOW CLEAR (0=PARENT,3-25.5 SEC)...0.0
RED CLEAR (0=PARENT,0.1-25.5 SEC)...0.0
OUTPUT AS PHASE # (0=NONE, 1-16)...0
  
```

← NOTICE GREEN FLASH

OVERLAP PROGRAMMING COMPLETE

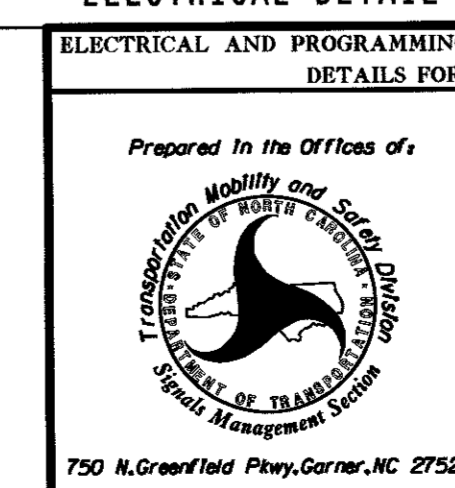
BEACON WIRING DETAIL

(wire flasher as shown below)

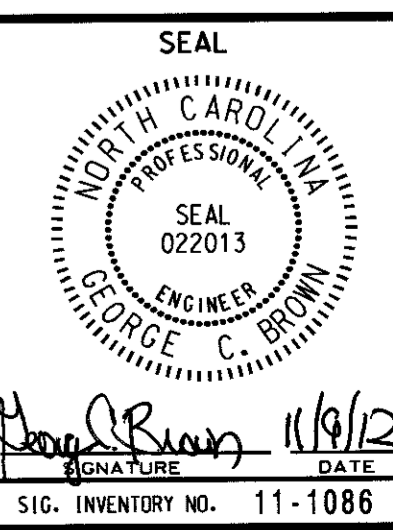


ELECTRICAL DETAIL SHEET 2 OF 2

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-1086
 DESIGNED: October 2012
 SEALED: 11/07/12
 REVISED: N/A



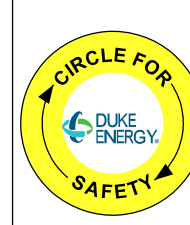
ELECTRICAL AND PROGRAMMING DETAILS FOR:	
Prepared in the Offices of:	
SR 1001 (Connelly Springs Road) at SR 1130 (Cajah Mtn. Road)	
Division 11	Caldwell County Cajah Mountain
PLAN DATE: October 2012	REVIEWED BY: T. V. J.
PREPARED BY: C. Strickland	REVIEWED BY:
REVISIONS	INIT. DATE



8/17/99



USP: Add Up Stream Protection, Facility ID, and Blocking Devisе Type
USP: 39013054 - Station Regulator
USP:
USP:
USP:



Safety Reminders / Adverse Conditions

- ? Pole Removal Back Line on Hill
- ? Ticks
- ? Working in Blind Curve - Heavy traffic
- ? Setting pole in Rock (maybe)

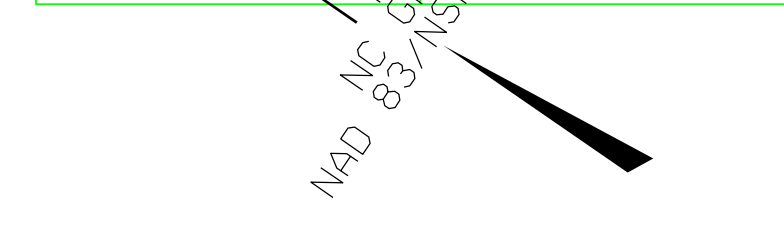


WZS: Remember "Your Circle of Safety"
WZS: Page 19 Lane Closure on a Two-Lane Rd
WZS: Page 25 Lane Closure in Advance of Intersection
WZS: Page 26 Lanr Closure Beyond an Intersection
WZS:

REMEMBER: Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.

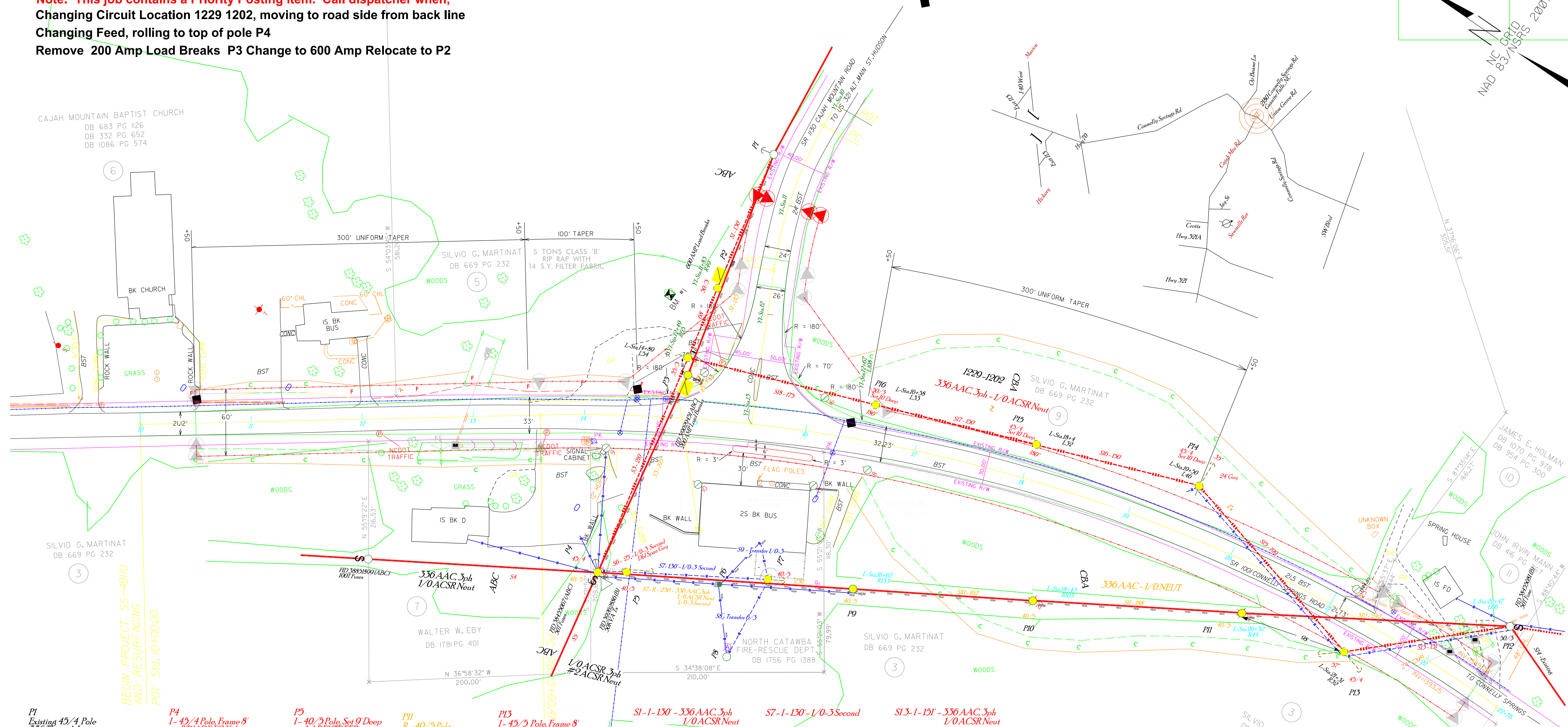
Note: This job contains a Priority Posting item. Call dispatcher when, Changing Circuit Location 1229 1202, moving to road side from back line
Changing Feed, rolling to top of pole P4
Remove 200 Amp Load Breaks P3 Change to 600 Amp Relocate to P2

PROJECT REFERENCE NO. R-5805	SHEET NO. 04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

05/12/2014 PARCEL 3 AND 9 CONVERTED TCE TO RIGHT OF WAY
05/12/2014 REMOVED TCE ON PARCEL 10 AND 11



- P1**
Existing 45/4 Pole
336 Through Line
Guy
- P2**
1-50/3 Pole, Frame 8, 180"
336 Dbl DE
1/0 ACSR Neut
8 Dbl DE FG X Arm
600 Amp Load Breaks (ABC)
- P3**
1-50/3 Pole, Frame 8, 180"
336 AAC Through Line
1/0 ACSR Neut
8 Wood X Arm
10 DE FG X Arm
Jumpers
Guy
- R-45/4 Pole**
8 Dbl Wood X Arms
336 AAC Dbl DE
200 Amp Load Breaks (ABC)
Guy

- P4**
1-45/4 Pole, Frame 8
8 Dbl DE FG X Arm
336 AAC DE 3ph
1/0 ACSR DE 3ph
50T Fuse (ABC)
Fid 38450067
10 DE FG X Arm
336 AAC DE 3ph
Transfer 30 kVA Tx
Fid 39262886(B)
- P5**
1-40/5 Pole, Set 9 Deep
LABEXTDEEP
Guy
Dbl DE 1/0-3
- P6**
R- Midspan Tap
- P7**
1-40/5 POLE
DE 1/0-3
Guy
Attach 6/3
- P8**
Lower Flood Light
Attach 6/3
- P9**
R-40/5 Pole
336 Through Line
1/0 Neut
8 Wood X Arm
LABHISPHADD
- P10**
R-40/5 Pole
336 Through Line
1/0 Neut
8 Dbl Wood X Arm
LABHISPHADD
Guy

- P11**
R-40/5 Pole
336 Through Line
1/0 Neut
8 Wood X Arm
LABHISPHADD
- P12**
Existing 45/4 Pole
- P13**
1-8 DE FG X Arm
336 AAC DE 3ph
1/0 ACSR Neut
LABLAYOUTS
Jumpers
Guy
- P14**
1-45/4 Pole, Frame 8, Set 10 Deep
336 AAC Through Line, 3ph
1/0 ACSR Neut
LABREMROCK
LABEXTDEEP
- P15**
1-45/4 Pole, Frame 8, SET 10 Deep
336 AAC Through Line, 3ph
1/0 ACSR Neut
LABREMROCK
LABEXTDEEP
- P16**
1-50/3 Pole, Frame 8, Set 10 Deep
336 AAC Through Line, 3ph
1/0 ACSR Neut
LABREMROCK
LABEXTDEEP

- S1-1-150' - 336 AAC, 3ph
1/0 ACSR Neut**
- R-215' - 336 AAC, 3ph
1/0 ACSR Neut**
- S2-1-68' - 336 AAC, 3ph
1/0 ACSR Neut**
- S3-1-210' - 336 AAC, 3ph
1/0 ACSR Neut**
- R-195' - 336 AAC, 3ph
1/0 ACSR Neut**
- S4- Transfer - 336 AAC, 3ph
1/0 ACSR Neut**
- S5- Transfer - 1/0 ACSR, 3ph
#2 ACSR Neut**
- S6-1-25'-1/0-3 Second
Dbl Span Guy**

- S7-1-150' - 1/0-3 Second**
- R-250' - 336 AAC, 3ph
1/0 ACSR Neut**
- S8- Transfer 6/3**
- S9- Transfer 1/0-3 SVC**
- S10-R-162' - 336 AAC, 3ph
1/0 ACSR Neut**
- S11-R-188' - 336 AAC, 3ph
1/0 ACSR Neut**
- S12-R-242' - 336 AAC, 3ph
1/0 ACSR Neut**

- S13-1-151' - 336 AAC, 3ph
1/0 ACSR Neut
1/0-3 Second**
- S14 - Existing 336 AAC, 3ph**
- S15-1-199' - 336 AAC, 3ph
1/0 ACSR Neut
1/0-3 Second**
- S16-150' - 336 AAC, 3ph
1/0 ACSR Neut**
- S17-150' - 336 AAC, 3ph
1/0 ACSR Neut**
- S18-185' - 336 AAC, 3ph
1/0 ACSR Neut**

Substation Name(s)	Sawmills Ret
Circuit ID(s)	12291202
Facility ID(s)	38351901

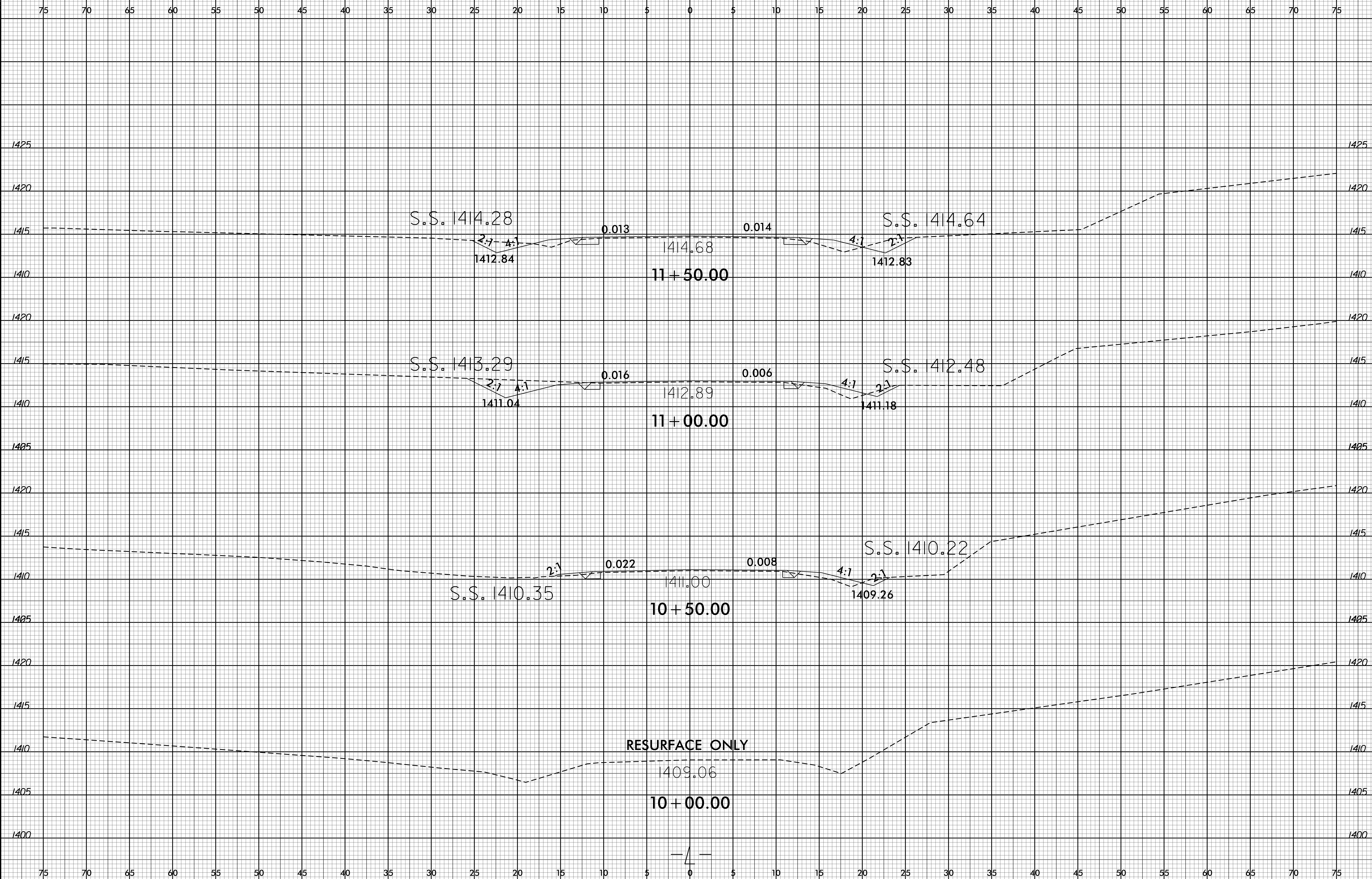
Work Order Number	7626852
Customer/Contact	NC DOT - Susan Huffman
Contact Phone	336-667-9101
Job Site Address	2180 Connelly Springs Rd
City	Granite Falls
County	Caldwell
State, Zip	NC 28630
Designer	Fred Liles
Designer Phone	828-323-2773 - 828-850-2371
Crew - Charge Time: Install / Rem to SHR026852	

R-5805

CROSS - SECTION INDEX

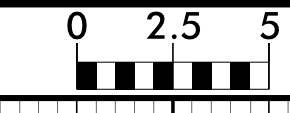
-L- STA. 10+00.00 TO STA. 22+50.00 X-1 - X-13
-Y1- STA. 11+50.00 TO STA. 12+50.00 X-14

8/23/99



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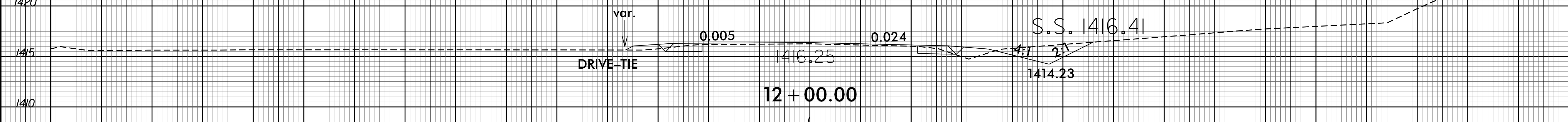
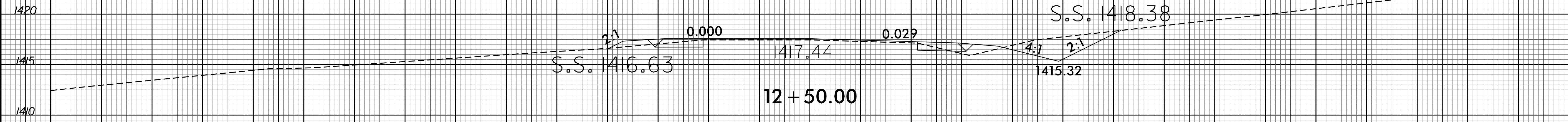
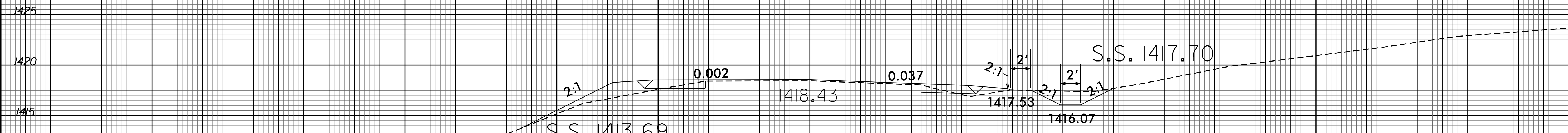
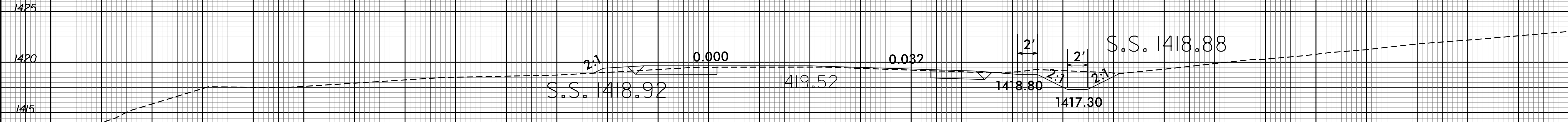
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PROJ. REFERENCE NO.
R-5805

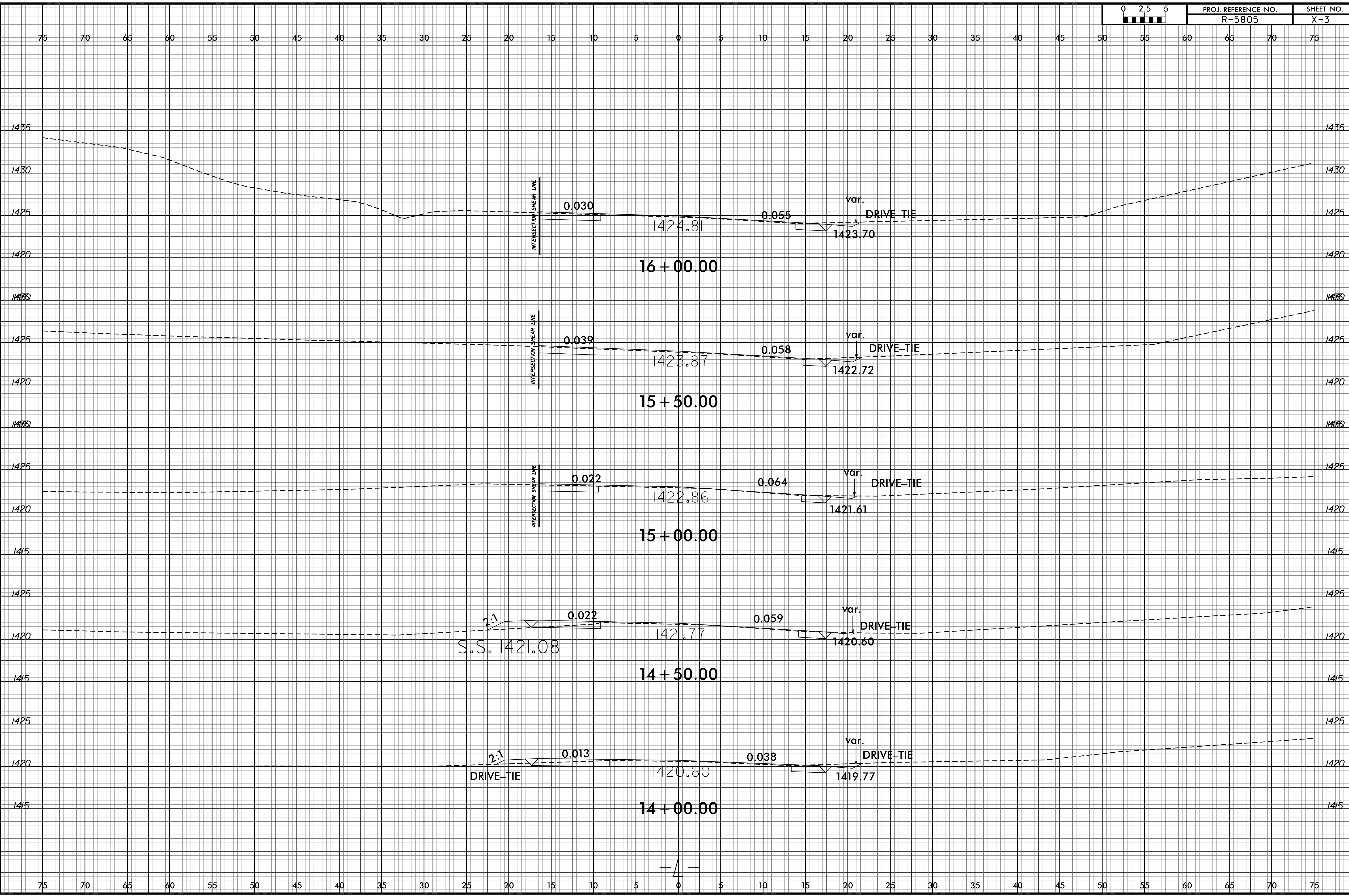
SHEET NO.
X-2

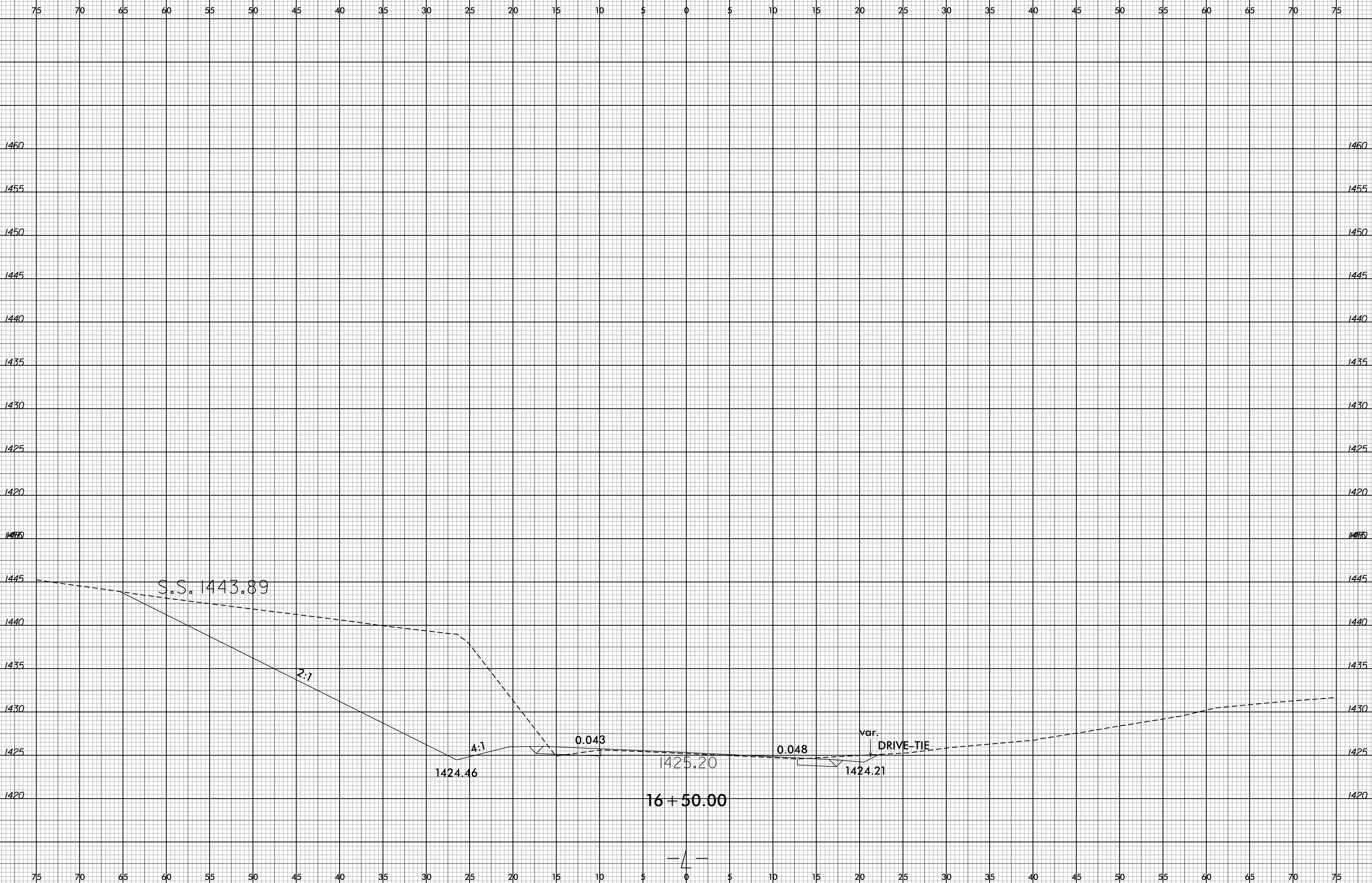
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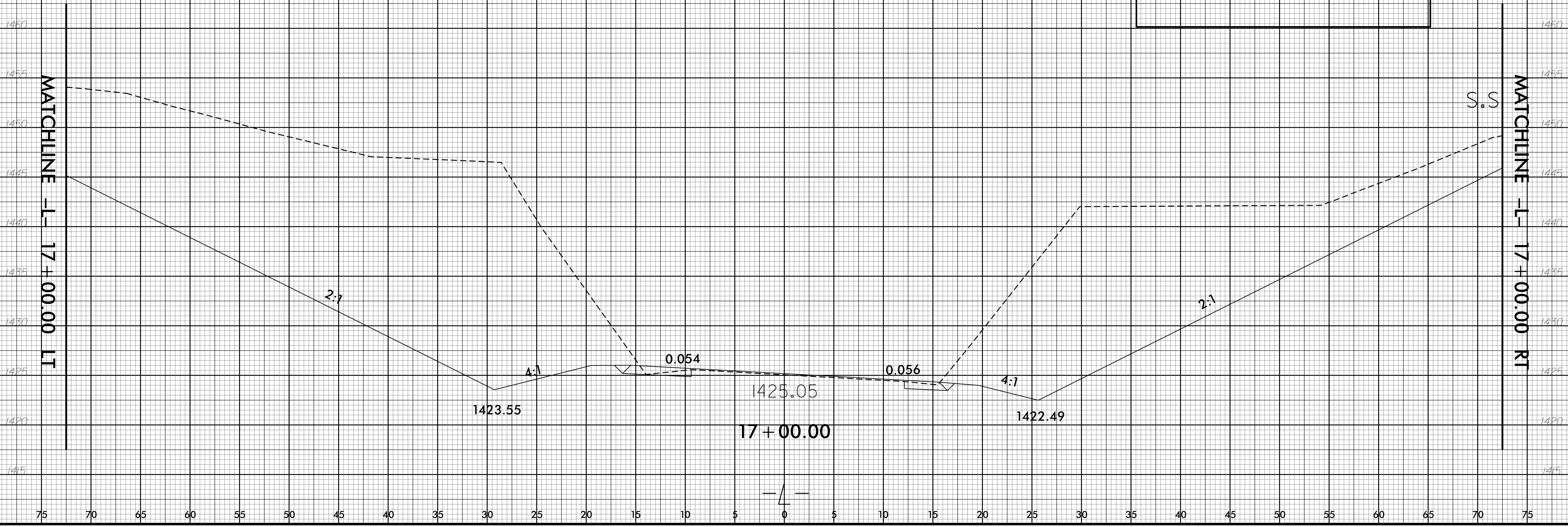
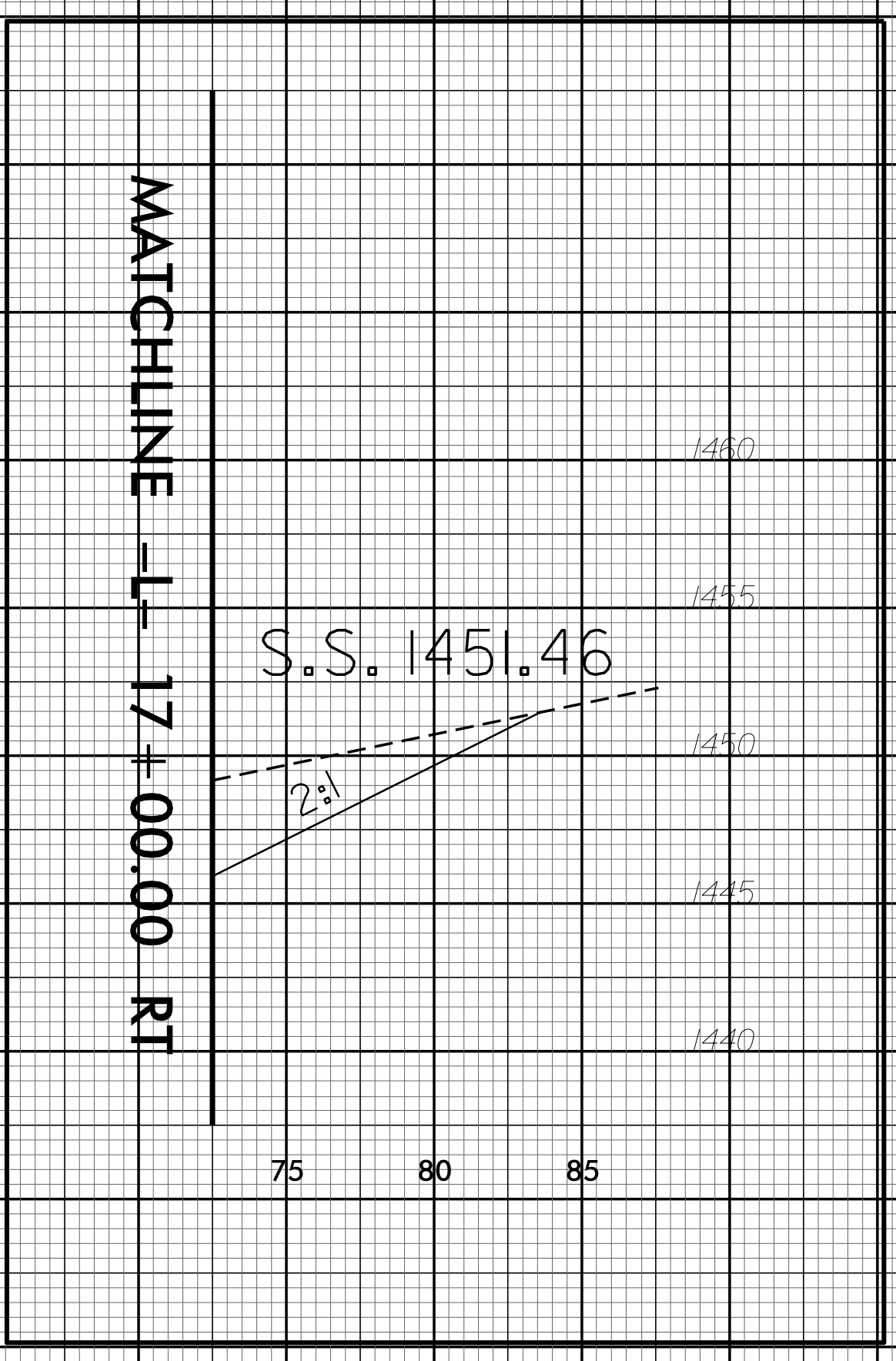
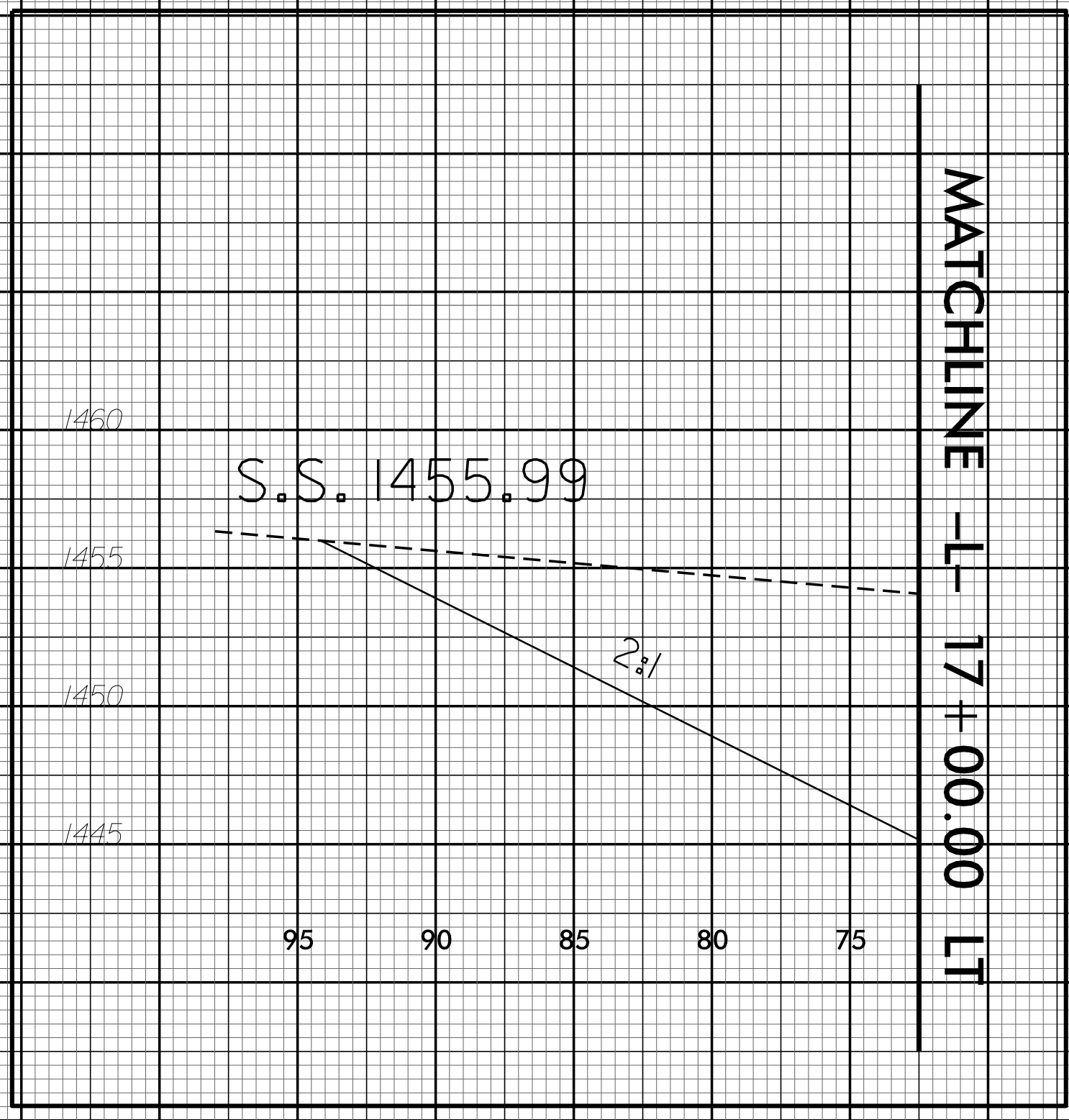
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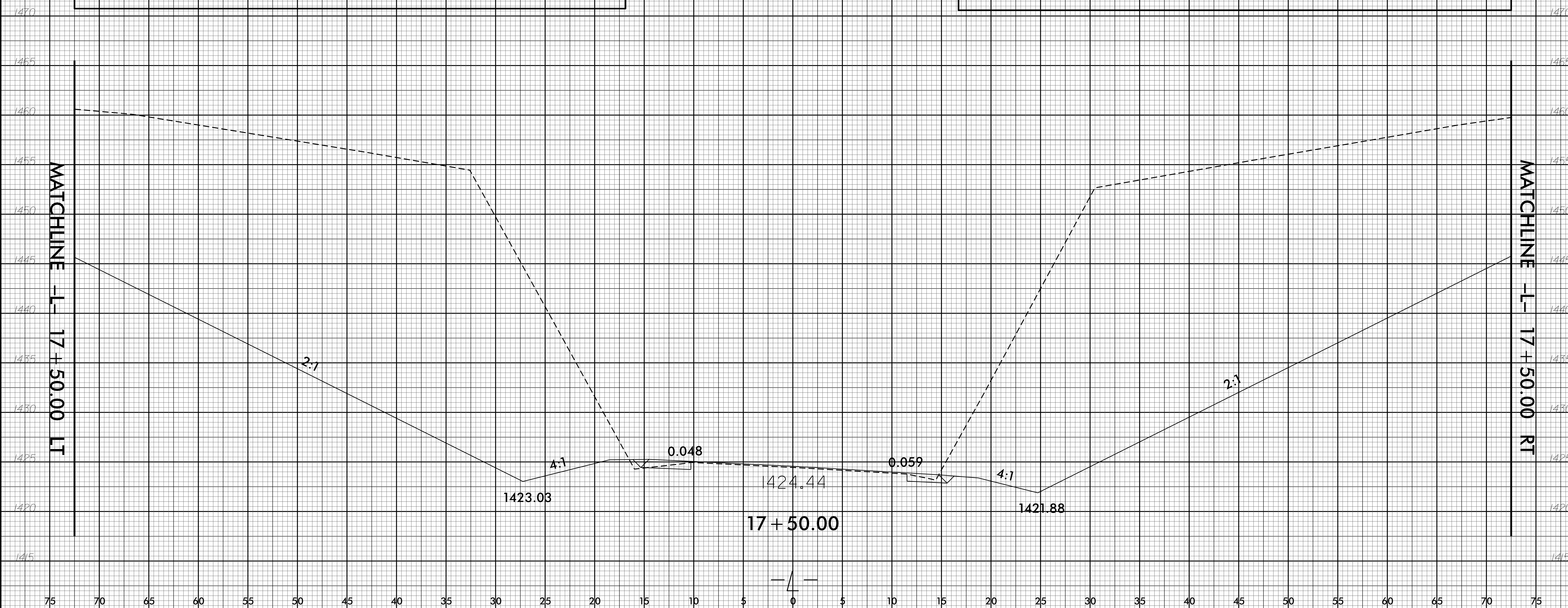
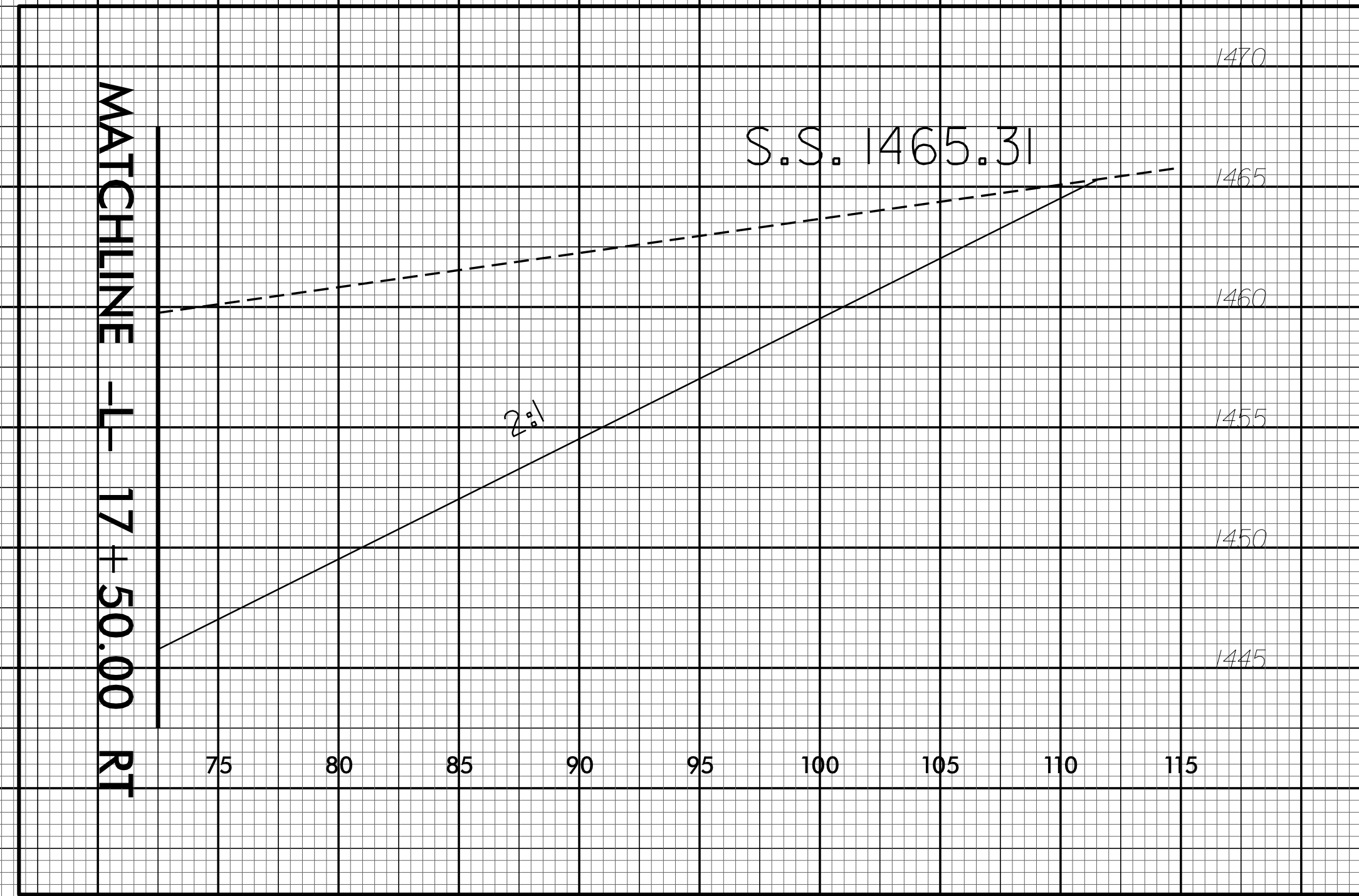
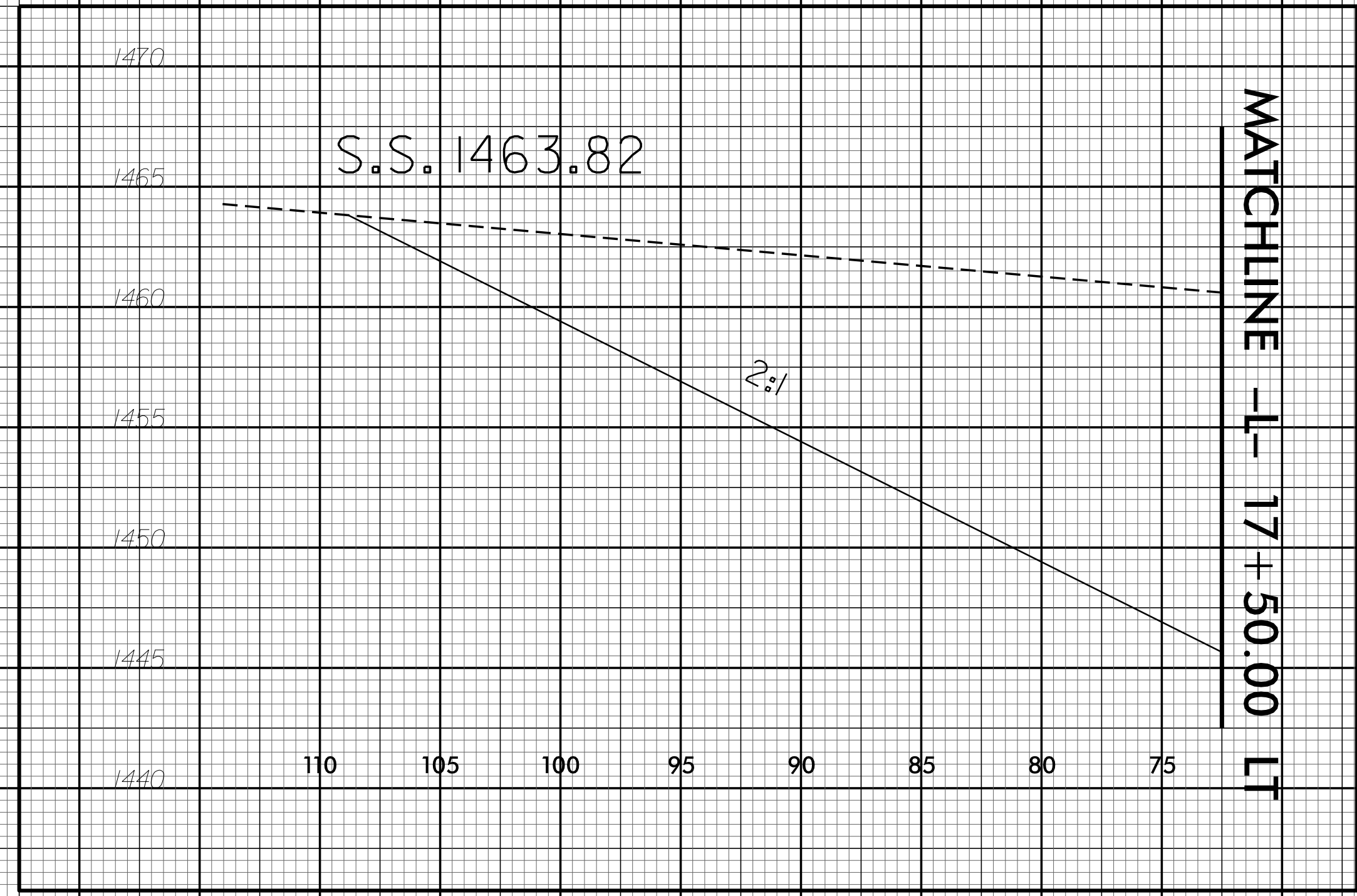




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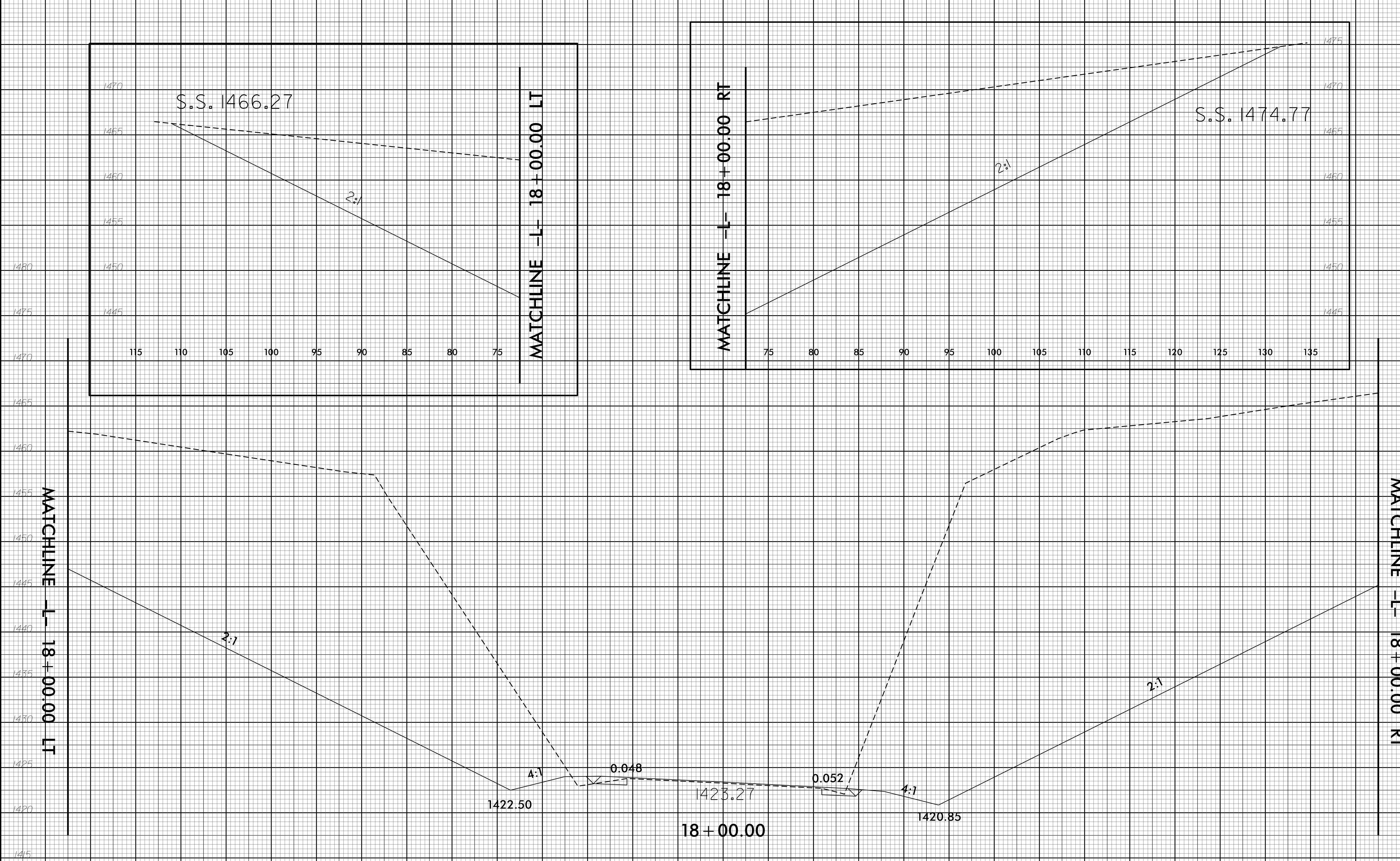


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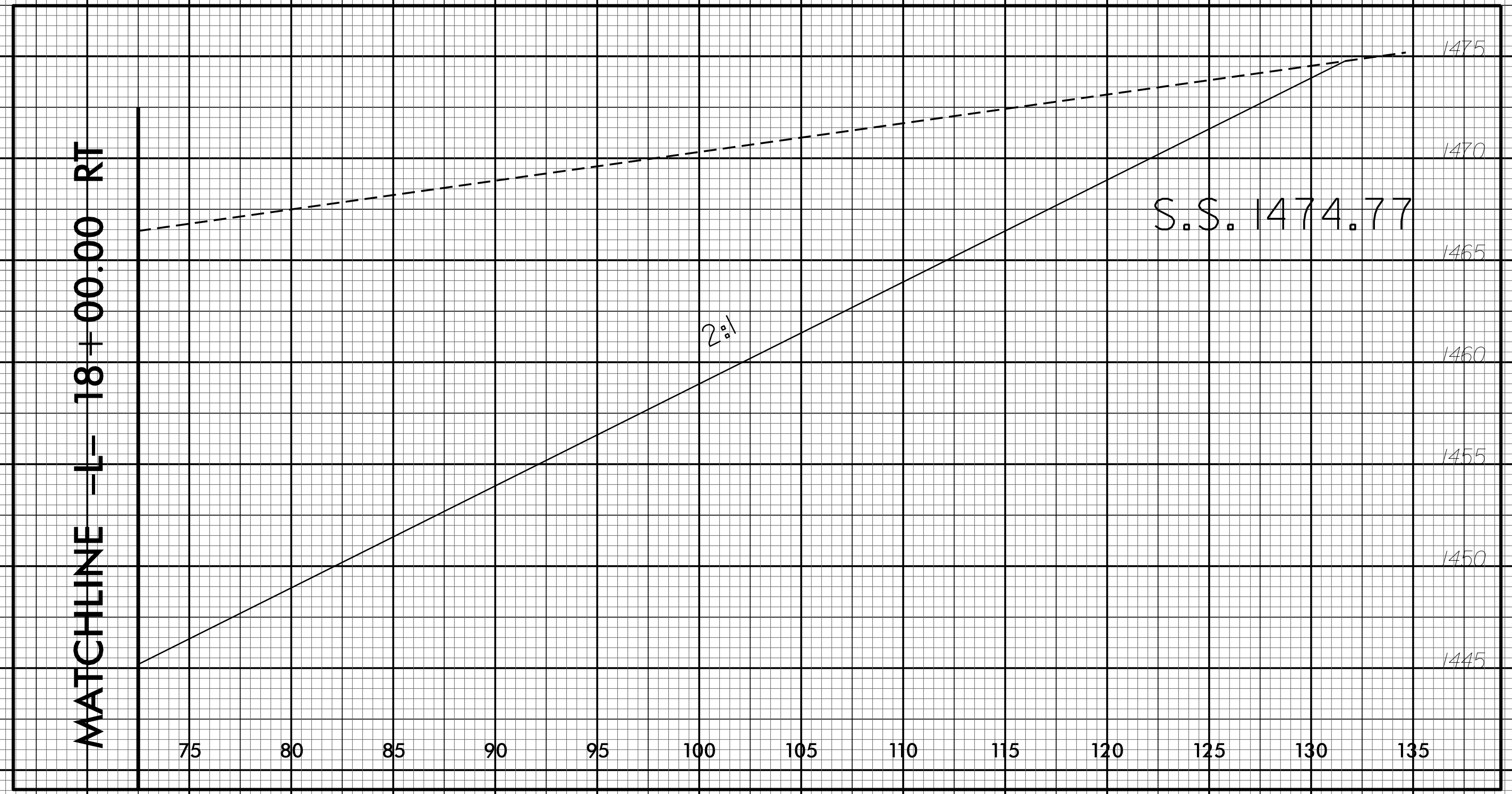
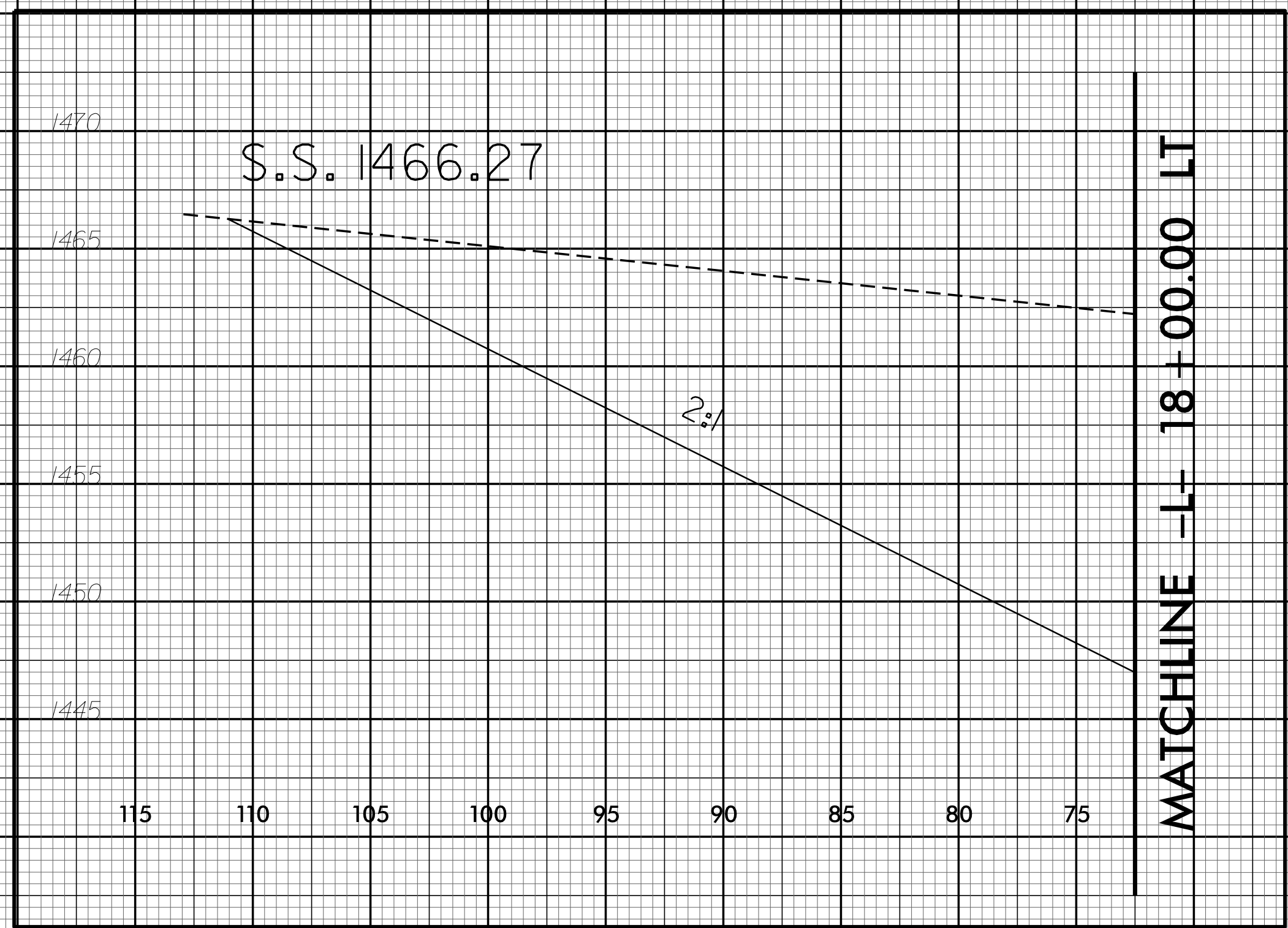




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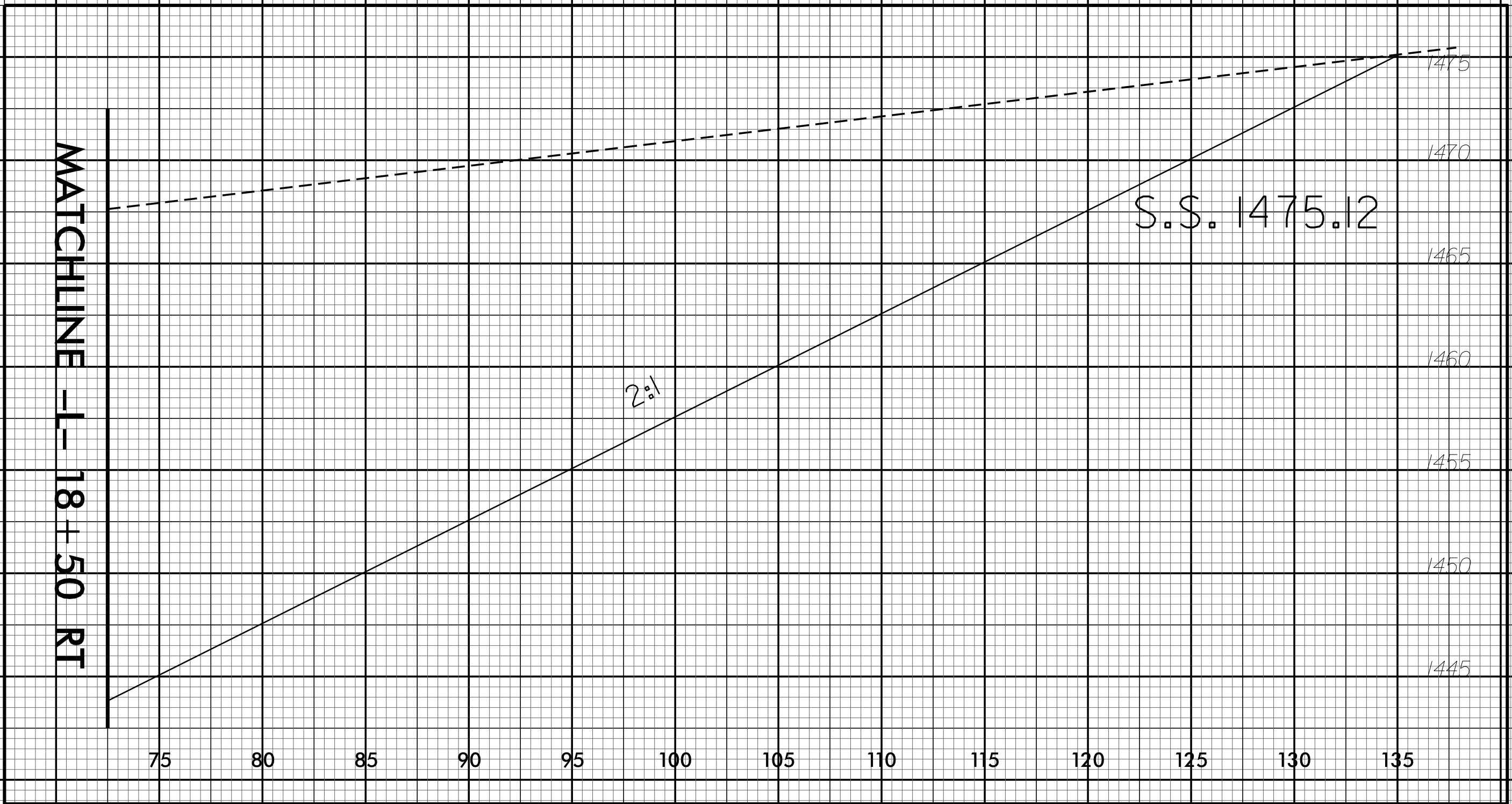
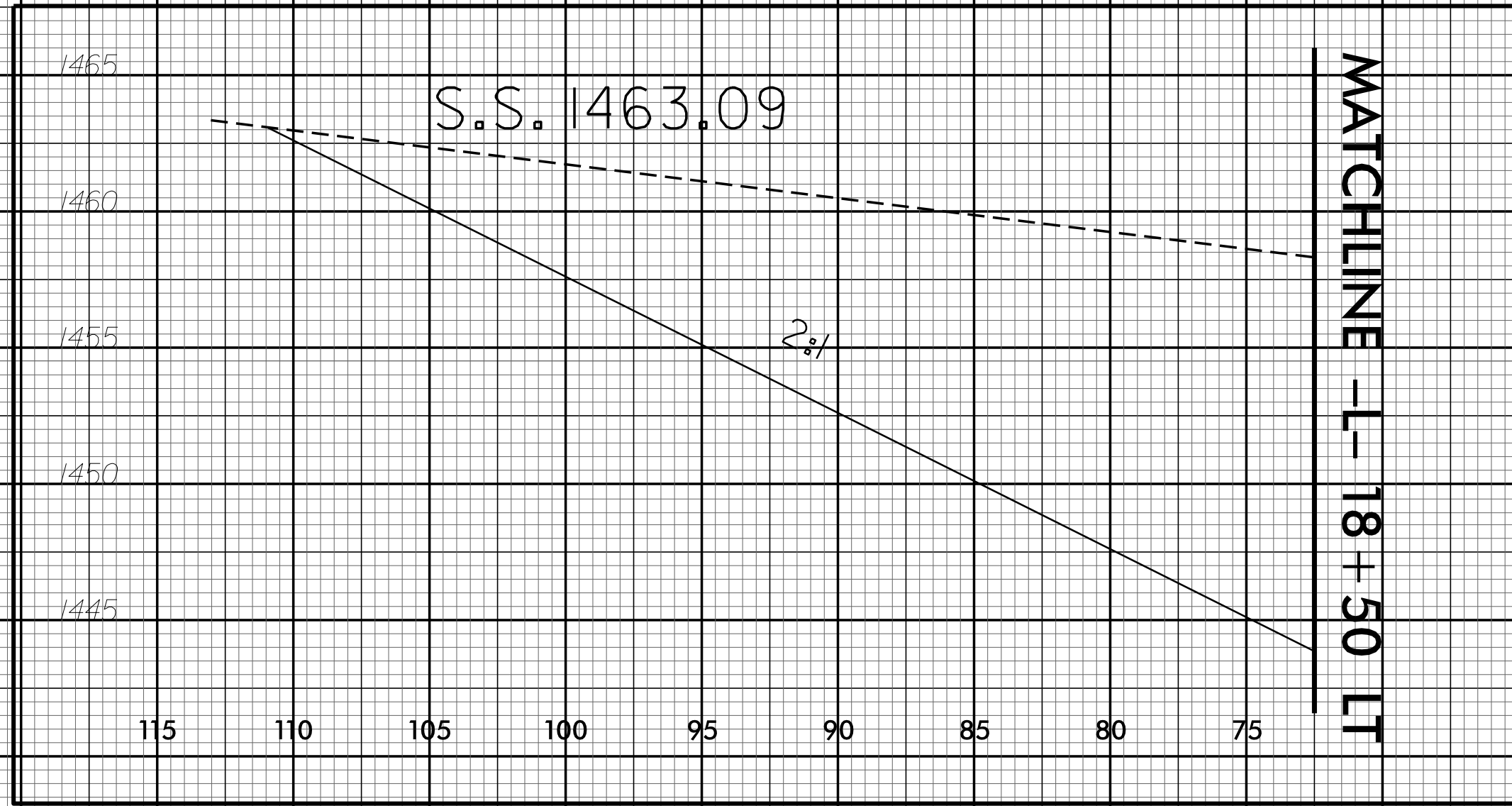
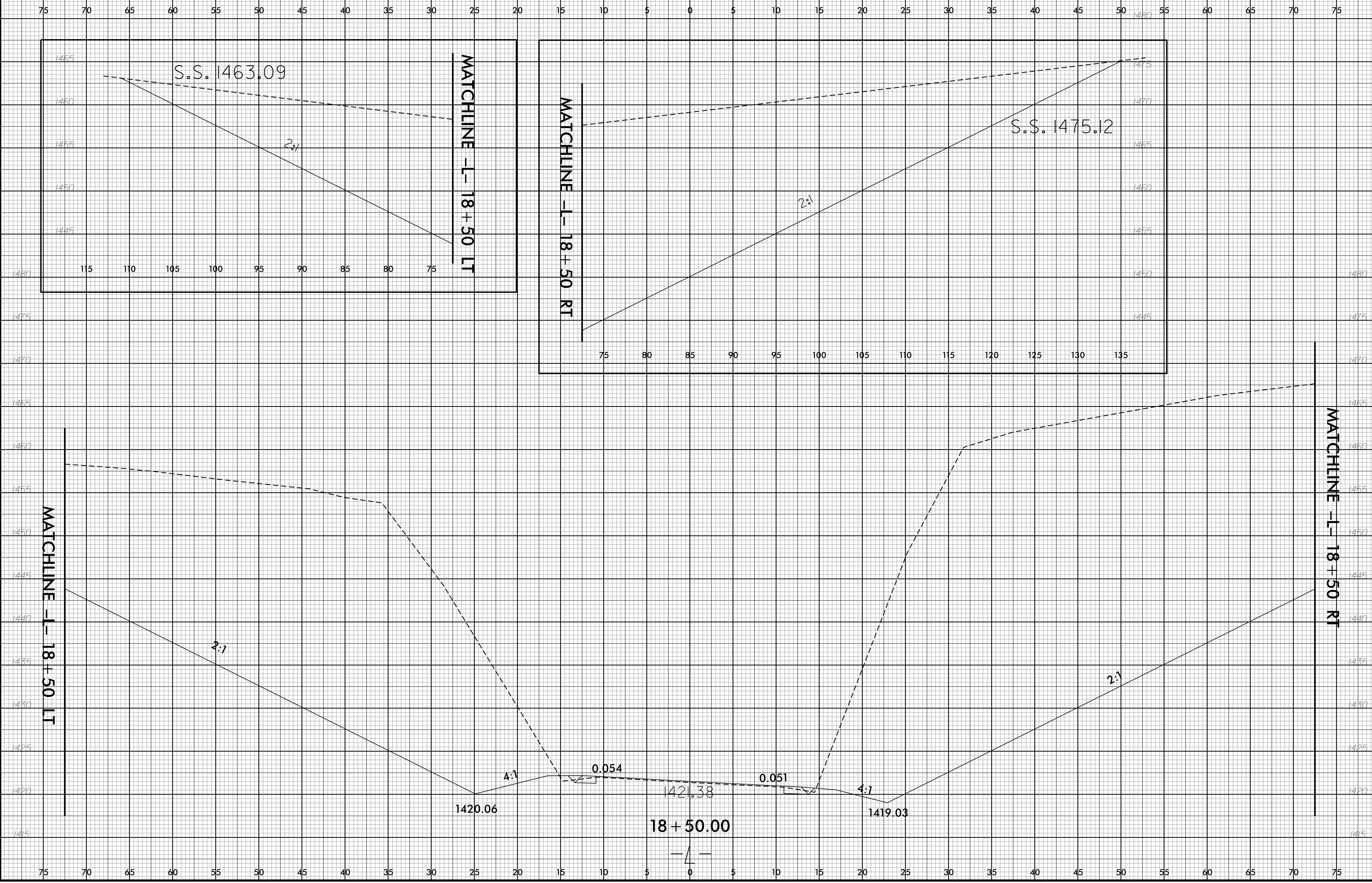
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PROJ. REFERENCE NO. R-5805	SHEET NO. X-8
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