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| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | P-4900B | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 41099.1.S3.4 | | PE | |
| 41099.2.S1 | | RW | |
| 41099.3.3 | | CONST. | |
| | | | |
| | | | |
| | | | |

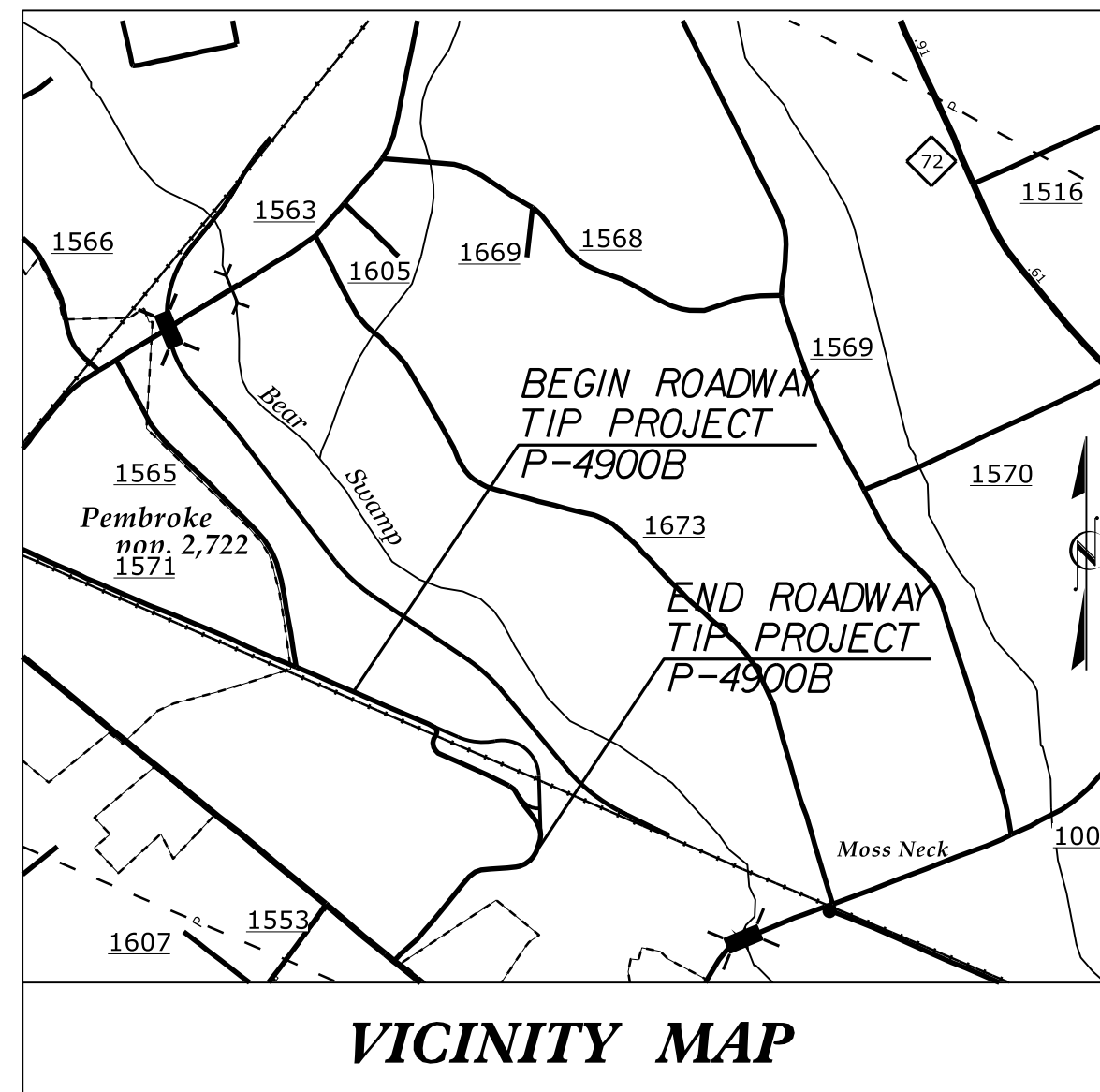
STATE OF NORTH CAROLINA
NCDOT RAIL DIVISION

ROBESON COUNTY

LOCATION: GRADE CROSSING RELOCATION ON SR 1571 (JONES RD).

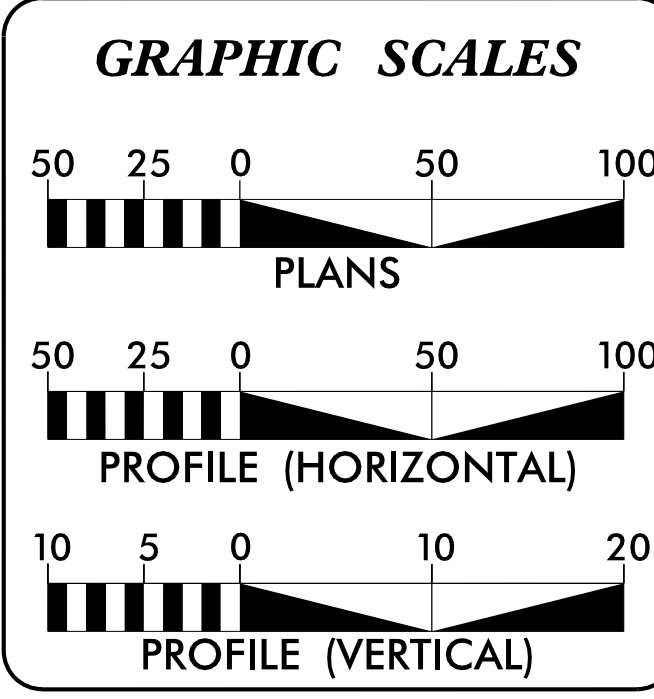
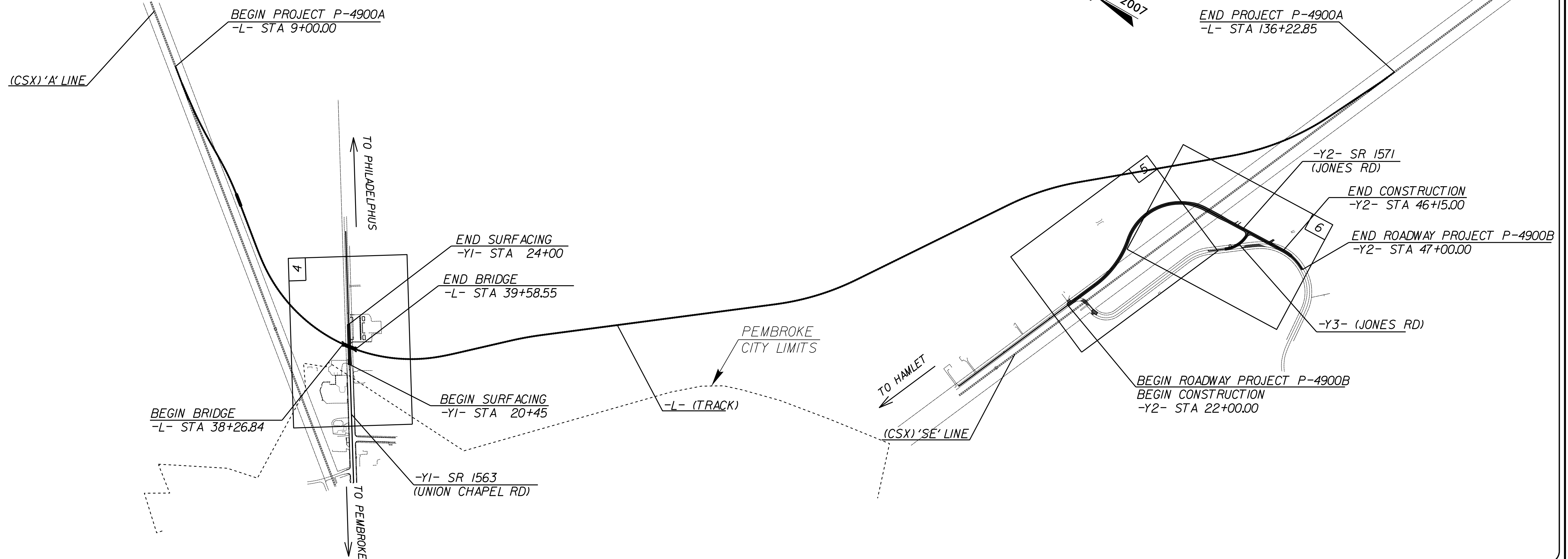
TYPE OF WORK: GRADING, DRAINAGE, & PAVING

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



TIP PROJECT: P-4900B

CONTRACT: DF00127



DESIGN DATA -YI-

| | |
|-------------------|----------|
| ADT 2016 = | 9157 |
| ADT 2036 = | 16011 |
| DHV = | 10 % |
| D = | 60 % |
| T = | 3 % * |
| V = | 40 MPH |
| * TTST = 1 | DUAL = 2 |
| FUNC CLASS = | LOCAL |
| SUB REGIONAL TIER | |

PROJECT LENGTH

| | |
|--|-------|
| LENGTH OF ROADWAY PROJECT P-4900 = | 0.473 |
| TOTAL LENGTH OF ROADWAY PROJECT P-4900 = | 0.473 |

Prepared in the Office of:

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

2012 STANDARD SPECIFICATIONS

| | |
|---|---|
| RIGHT OF WAY DATE: MAY 30, 2014 | DAVID W. BASS, P.E. PROJECT ENGINEER |
| LETTING DATE: MAY 18, 2016 | BRIAN BLACKWELL, E.I. PROJECT DESIGN ENGINEER |

HYDRAULICS ENGINEER

DocuSigned by:
James A. Byrd
SIGNATURE: 10/13/2015

ROADWAY DESIGN ENGINEER

DocuSigned by:
David W. Bass
SIGNATURE: 10/13/2015

NC DEPARTMENT OF TRANSPORTATION
RAIL DIVISION
DESIGN AND CONSTRUCTION

30-SEP-2015 14:02 \\raid00\projects\088 Rail\55624 Pembroke FinalDesign\Roadway\Proj\N4900B\p4900b_rdy_t.sh.dgn \$\$\$USERNAME\$\$\$

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 | ○ EIP |
| Property Corner | -----x |
| Property Monument | □ ECM |
| Parcel/Sequence Number | ⑩②③ |
| Existing Fence Line | -x-x-x-x- |
| 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--- |
| Existing Historic Property Boundary | ---HPB--- |
| Known Contamination Area: Soil | ☠ |
| Potential Contamination Area: Soil | ? |
| Known Contamination Area: Water | ☠ |
| Potential Contamination Area: Water | ? |
| Contaminated Site: Known or Potential | ☠ ? |

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

| | |
|--------------------|---------------|
| Standard Gauge | ----- |
| 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 | ---RW--- |
| Proposed Right of Way Line with Iron Pin and Cap Marker | ---RW---▲ |
| Proposed Right of Way Line with Concrete or Granite RW Marker | ---RW---▲ |
| Proposed Control of Access Line with Concrete CA Marker | ---CA--- |
| Existing Control of Access | ---CA--- |
| Proposed Control of Access | ---CA--- |
| Existing Easement Line | ---E--- |
| Proposed Temporary Construction Easement | ---E--- |
| Proposed Temporary Drainage Easement | ---TDE--- |
| Proposed Permanent Drainage Easement | ---PDE--- |
| Proposed Permanent Drainage / Utility Easement | ---DUE--- |
| Proposed Permanent Utility Easement | ---PUE--- |
| Proposed Temporary Utility Easement | ---TUE--- |
| Proposed Aerial Utility Easement | ---AUE--- |
| Proposed Permanent Easement with Iron Pin and Cap Marker | ---E---◆ |

ROADS AND RELATED FEATURES:

| | |
|----------------------------|----------|
| Existing Edge of Pavement | ----- |
| Existing Curb | ----- |
| Proposed Slope Stakes Cut | ---C--- |
| Proposed Slope Stakes Fill | ---F--- |
| Proposed Curb Ramp | ---CR--- |
| Existing Metal Guardrail | ----- |
| Proposed Guardrail | ----- |
| Existing Cable Guiderail | ----- |
| Proposed Cable Guiderail | ----- |
| Equality Symbol | ⊕ |
| Pavement Removal | ----- |

VEGETATION:

| | |
|--------------|-------|
| Single Tree | ☼ |
| Single Shrub | ☼ |
| Hedge | ----- |
| Woods Line | ----- |

| | |
|----------|------------|
| Orchard | ☼☼☼☼ |
| Vineyard | □ Vineyard |

EXISTING STRUCTURES:

| | |
|--|---------------|
| MAJOR: | |
| Bridge, Tunnel or Box Culvert | ---CONC--- |
| Bridge Wing Wall, Head Wall and End Wall | ---CONC WW--- |
| MINOR: | |
| Head and End Wall | ---CONC HW--- |
| Pipe Culvert | ----- |
| Footbridge | ----- |
| Drainage Box: Catch Basin, DI or JB | □ CB |
| Paved Ditch Gutter | ----- |
| Storm Sewer Manhole | ○ S |
| Storm Sewer | ---S--- |

UTILITIES:

| | |
|--------------------------------|---------|
| POWER: | |
| Existing Power Pole | ● |
| Proposed Power Pole | ○ |
| Existing Joint Use Pole | ● |
| Proposed Joint Use Pole | ○ |
| Power Manhole | ⊕ |
| Power Line Tower | ⊠ |
| Power Transformer | ⊠ |
| U/G Power Cable Hand Hole | □ |
| H-Frame Pole | ● |
| U/G Power Line LOS B (S.U.E.*) | ---P--- |
| U/G Power Line LOS C (S.U.E.*) | ---P--- |
| U/G Power Line LOS D (S.U.E.*) | ---P--- |

TELEPHONE:

| | |
|--|-----------|
| Existing Telephone Pole | ● |
| Proposed Telephone Pole | ○ |
| Telephone Manhole | ⊕ |
| Telephone Pedestal | ⊠ |
| Telephone Cell Tower | ⊠ |
| U/G Telephone Cable Hand Hole | □ |
| U/G Telephone Cable LOS B (S.U.E.*) | ---T--- |
| U/G Telephone Cable LOS C (S.U.E.*) | ---T--- |
| U/G Telephone Cable LOS D (S.U.E.*) | ---T--- |
| U/G Telephone Conduit LOS B (S.U.E.*) | ---TC--- |
| U/G Telephone Conduit LOS C (S.U.E.*) | ---TC--- |
| U/G Telephone Conduit LOS D (S.U.E.*) | ---TC--- |
| U/G Fiber Optics Cable LOS B (S.U.E.*) | ---TFO--- |
| U/G Fiber Optics Cable LOS C (S.U.E.*) | ---TFO--- |
| U/G Fiber Optics Cable LOS D (S.U.E.*) | ---TFO--- |

WATER:

| | |
|--------------------------------|-----------------|
| Water Manhole | ⊕ |
| Water Meter | ○ |
| Water Valve | ⊗ |
| Water Hydrant | ⊕ |
| U/G Water Line LOS B (S.U.E.*) | ---W--- |
| U/G Water Line LOS C (S.U.E.*) | ---W--- |
| U/G Water Line LOS D (S.U.E.*) | ---W--- |
| Above Ground Water Line | ---A/G Water--- |

TV:

| | |
|---------------------------------------|-------------|
| TV Pedestal | ⊠ |
| TV Tower | ⊗ |
| U/G TV Cable Hand Hole | □ |
| U/G TV Cable LOS B (S.U.E.*) | ---TV--- |
| U/G TV Cable LOS C (S.U.E.*) | ---TV--- |
| U/G TV Cable LOS D (S.U.E.*) | ---TV--- |
| U/G Fiber Optic Cable LOS B (S.U.E.*) | ---TV FO--- |
| U/G Fiber Optic Cable LOS C (S.U.E.*) | ---TV FO--- |
| U/G Fiber Optic Cable LOS D (S.U.E.*) | ---TV FO--- |

GAS:

| | |
|------------------------------|---------------|
| Gas Valve | ◇ |
| Gas Meter | ⊕ |
| U/G Gas Line LOS B (S.U.E.*) | ---G--- |
| U/G Gas Line LOS C (S.U.E.*) | ---G--- |
| U/G Gas Line LOS D (S.U.E.*) | ---G--- |
| Above Ground Gas Line | ---A/G Gas--- |

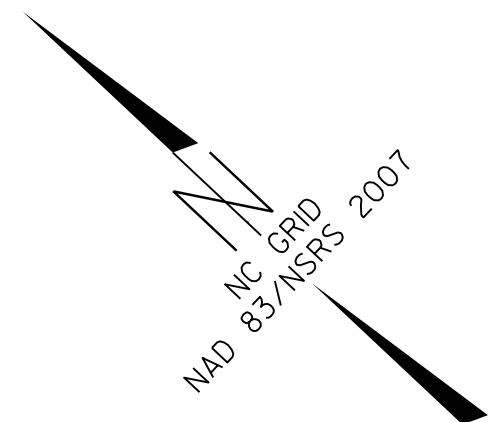
SANITARY SEWER:

| | |
|-------------------------------------|--------------------------|
| Sanitary Sewer Manhole | ⊕ |
| Sanitary Sewer Cleanout | ⊕ |
| U/G Sanitary Sewer Line | ---SS--- |
| Above Ground Sanitary Sewer | ---A/G Sanitary Sewer--- |
| SS Forced Main Line LOS B (S.U.E.*) | ---FSS--- |
| SS Forced Main Line LOS C (S.U.E.*) | ---FSS--- |
| SS Forced Main Line LOS D (S.U.E.*) | ---FSS--- |

MISCELLANEOUS:

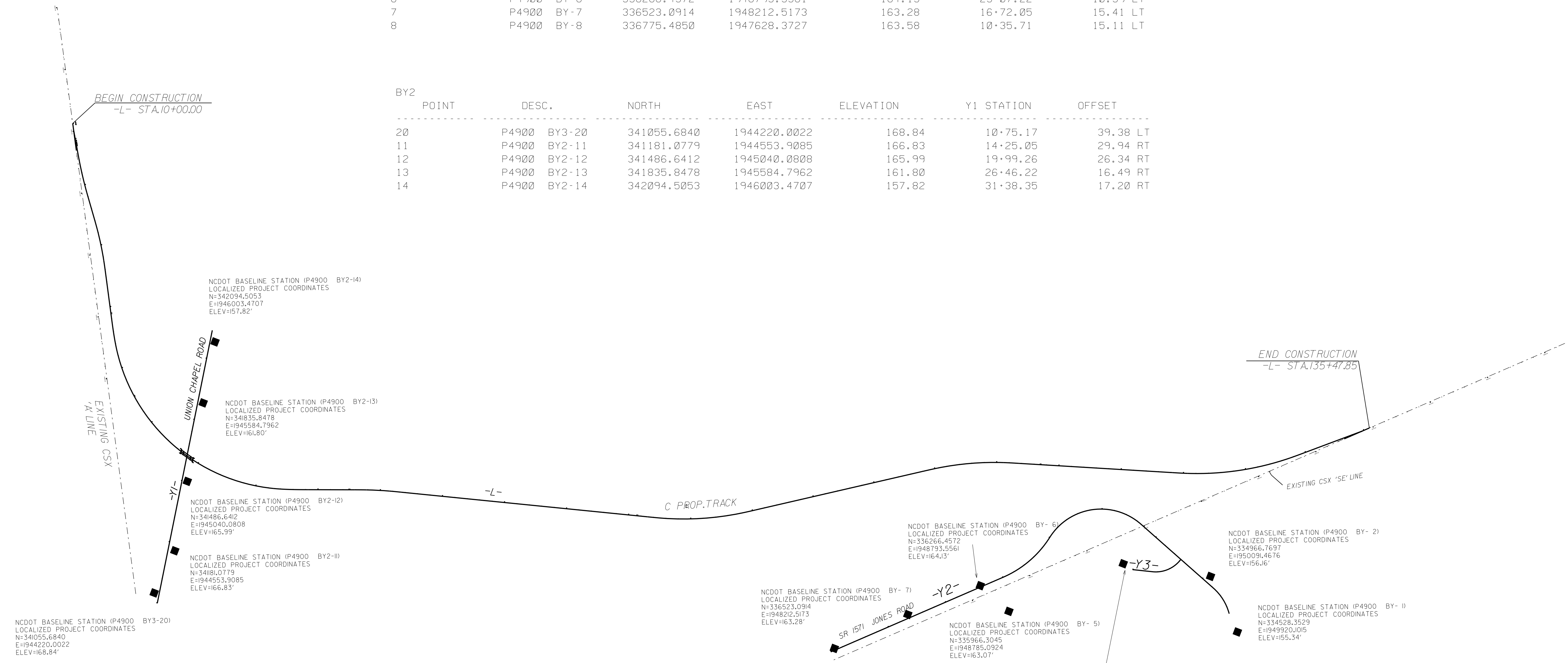
| | |
|--|-----------|
| Utility Pole | ● |
| Utility Pole with Base | □ |
| Utility Located Object | ○ |
| Utility Traffic Signal Box | ⊠ |
| Utility Unknown U/G Line LOS B (S.U.E.*) | ---UTL--- |
| U/G Tank; Water, Gas, Oil | □ |
| Underground Storage Tank, Approx. Loc. | ⊕ |
| A/G Tank; Water, Gas,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

SURVEY CONTROL SHEET P-4900B



| BY | POINT | DESC. | NORTH | EAST | ELEVATION | Y2 STATION | OFFSET |
|----|-------|-------|-------------|--------------|-----------|------------------------|-----------|
| 1 | P4900 | BY-1 | 334528.3529 | 1949920.1015 | 155.34 | OUTSIDE PROJECT LIMITS | |
| 2 | P4900 | BY-2 | 334966.7697 | 1950091.4676 | 156.16 | 45+40.79 | 35.04 LT |
| 3 | P4900 | BY-3 | 335534.4356 | 1949685.3764 | 163.79 | 39+60.82 | 353.28 RT |
| 4 | P4900 | BY-4 | 335809.4216 | 1949072.9187 | 163.84 | 26+78.72 | 323.53 RT |
| 5 | P4900 | BY-5 | 335966.3045 | 1948785.0924 | 163.07 | 24+18.64 | 268.25 RT |
| 6 | P4900 | BY-6 | 336266.4572 | 1948793.5561 | 164.13 | 23+07.22 | 10.59 LT |
| 7 | P4900 | BY-7 | 336523.0914 | 1948212.5173 | 163.28 | 16+72.05 | 15.41 LT |
| 8 | P4900 | BY-8 | 336775.4850 | 1947628.3727 | 163.58 | 10+35.71 | 15.11 LT |

| BY2 | POINT | DESC. | NORTH | EAST | ELEVATION | Y1 STATION | OFFSET |
|-----|-------|--------|-------------|--------------|-----------|------------|----------|
| 20 | P4900 | BY2-20 | 341055.6840 | 1944220.0022 | 168.84 | 10+75.17 | 39.38 LT |
| 11 | P4900 | BY2-11 | 341181.0779 | 1944553.9085 | 166.83 | 14+25.05 | 29.94 RT |
| 12 | P4900 | BY2-12 | 341486.6412 | 1945040.0808 | 165.99 | 19+99.26 | 26.34 RT |
| 13 | P4900 | BY2-13 | 341835.8478 | 1945584.7962 | 161.80 | 26+46.22 | 16.49 RT |
| 14 | P4900 | BY2-14 | 342094.5053 | 1946003.4707 | 157.82 | 31+38.35 | 17.20 RT |



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "PROSPECT"

WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
 NORTHING: 372029.5512(ft) EASTING: 1938868.6682(ft)
 ELEVATION: 196.92(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99991940

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "PROSPECT" TO -L- STATION 10+00.00 IS
 N 15° 18' 43.77" W 28949.9515'

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

NOTE: DRAWING NOT TO SCALE

NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/](https://connect.ncdot.gov/resources/location/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 P4900_LS_CONTROL.TXT
- SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
 NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION
 SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

R:\SEP-2005 08:00 0088 Ra1\55624 Pembroke Final Design\Roadway\Proj\4900B\4900b.LS.Lc.L.dgn
 6/2/09

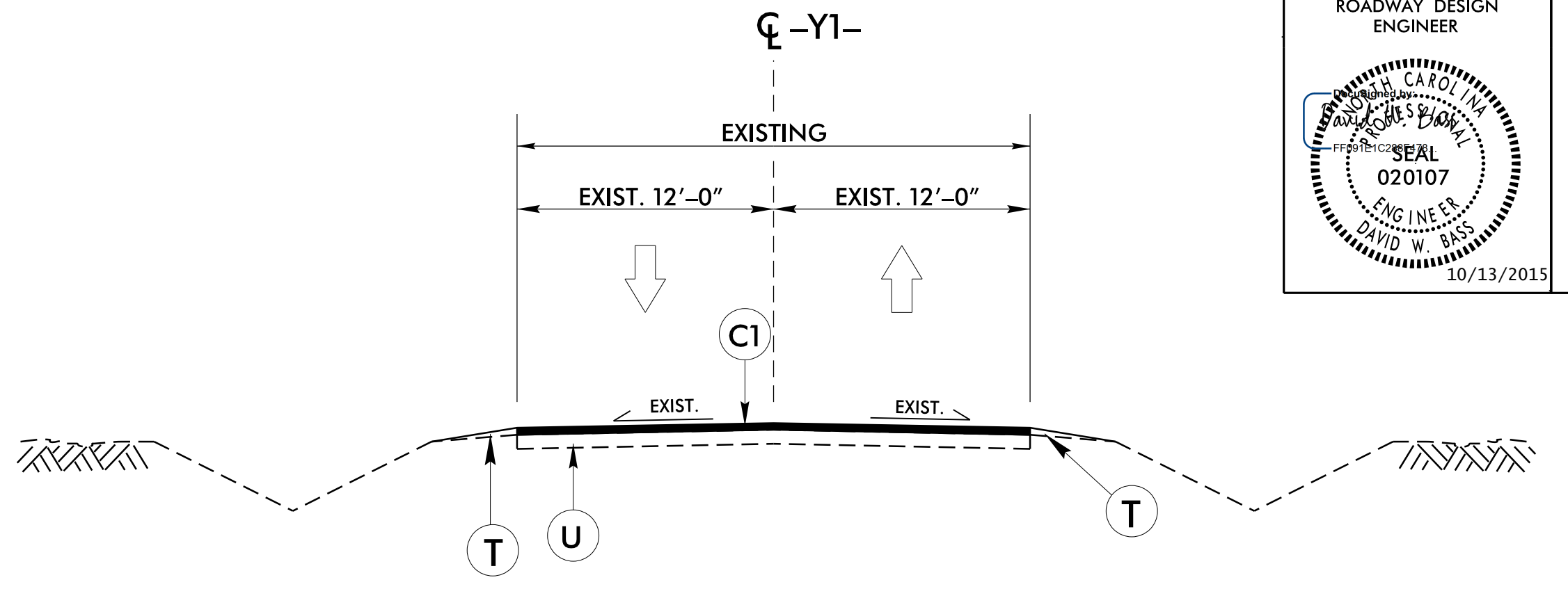
8/17/99

| | |
|---|--------------------------|
| PROJECT REFERENCE NO. P-4900B | SHEET NO. 2A-1 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | PAVEMENT ENGINEER |

SEAL
020107
ENGINEER
DAVID W. BASS
10/13/2015

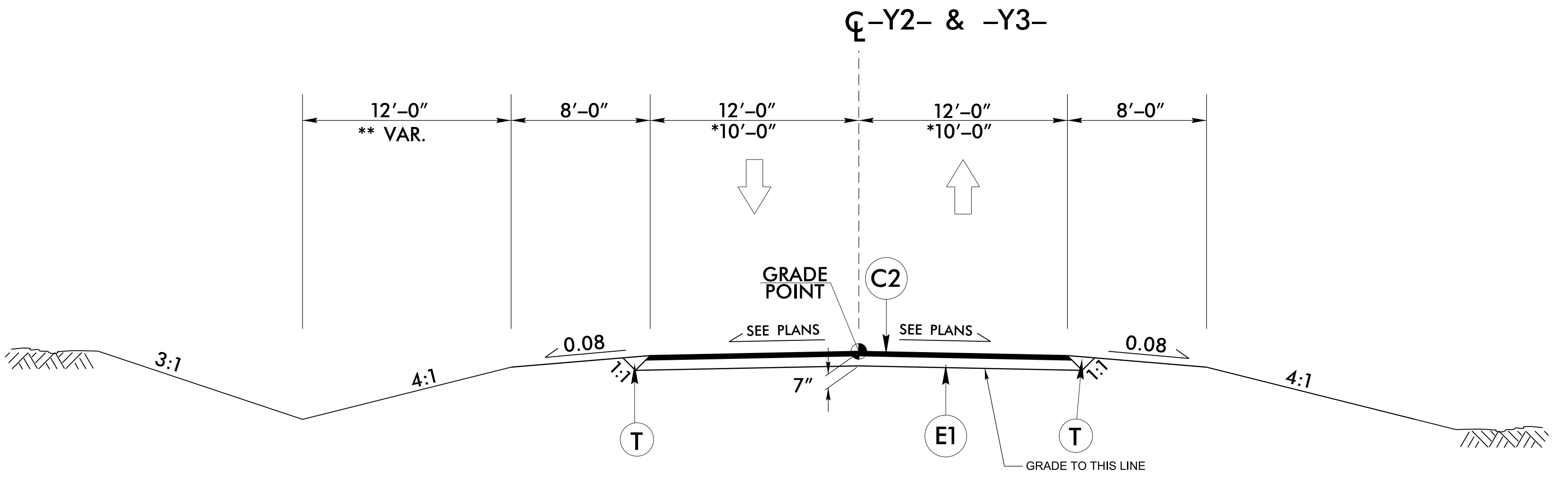
| PRELIMINARY PAVEMENT SCHEDULE | |
|-------------------------------|--|
| C1 | PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD. |
| C2 | PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD IN EACH OF TWO LAYERS. |
| E1 | PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD. |
| R1 | 5" MONOLITHIC CONCRETE ISLAND (KEYED-IN) |
| T | EARTH MATERIAL |
| U | EXISTING PAVEMENT |
| W | WEDGING (SEE DETAIL) |

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



TYPICAL SECTION NO. 1

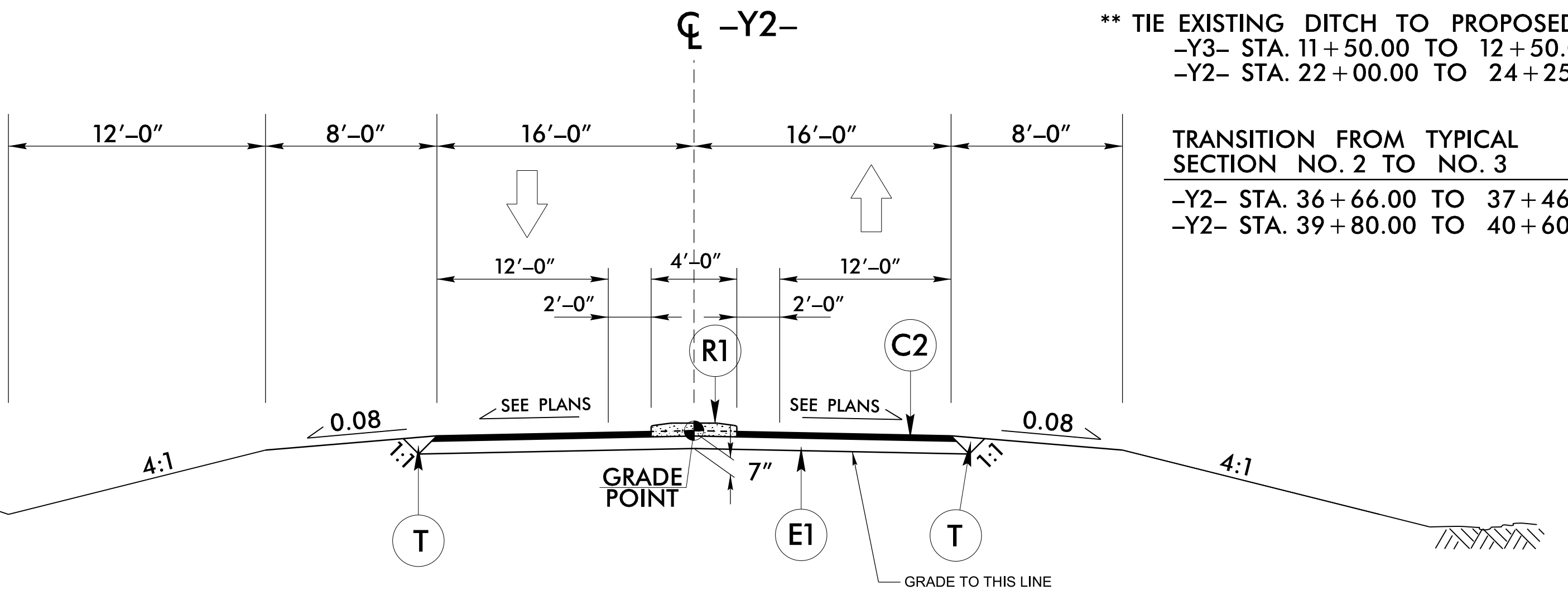
USE TYPICAL SECTION NO. 1
-Y1- STA. 20+45+/- TO 24+00+/-



TYPICAL SECTION NO. 2

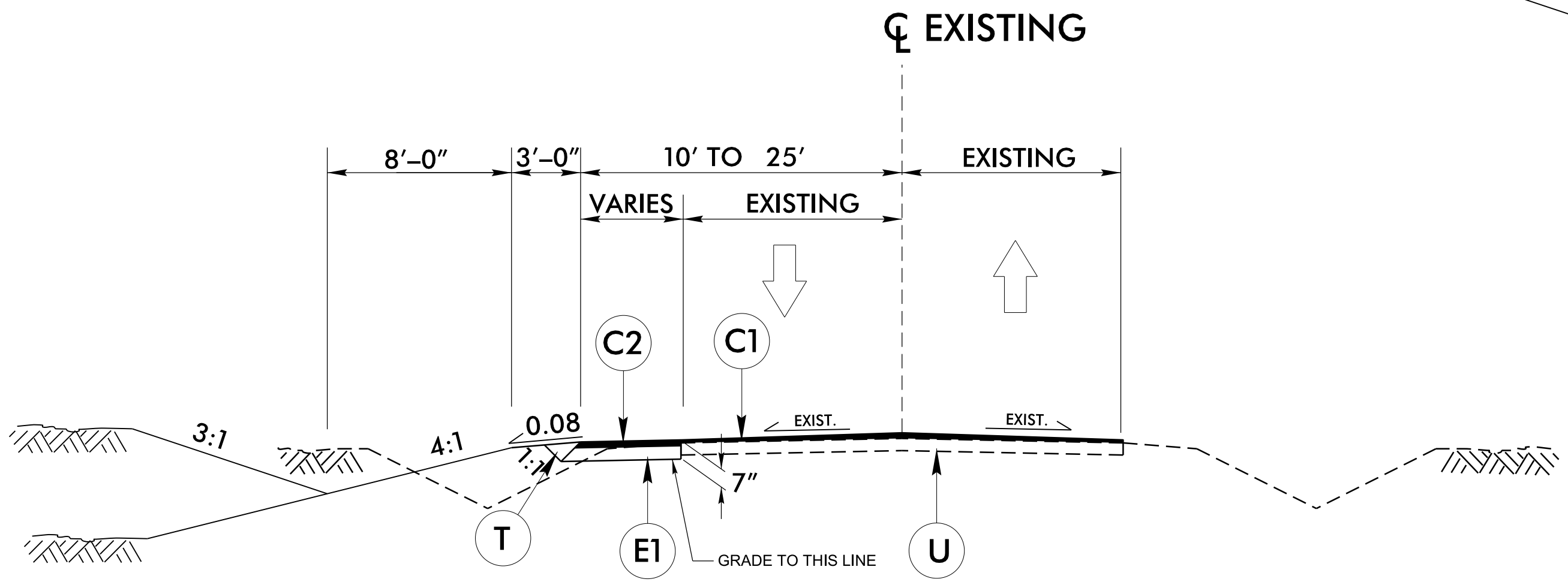
USE TYPICAL SECTION NO. 2
-Y2- STA. 24+25.00 TO 36+66.00
-Y2- STA. 40+60.00 TO 47+00.00
*-Y3- STA. 12+50.00 TO 14+04.93

** TIE EXISTING DITCH TO PROPOSED
-Y3- STA. 11+50.00 TO 12+50.00
-Y2- STA. 22+00.00 TO 24+25.00



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3
-Y2- STA. 37+46.00 TO 39+80.00



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4
HAMMERHEAD LOCATION (SEE PLANS)

REVISIONS

F:\proj\Design\Roadway\Proj\4900B\p4900b_rdy_tup.dgn
28-SEP-2015 13:59
C:\Users\DAVIDW\Documents\Projects\4900B\p4900b_rdy_tup.dgn

| | |
|-------------------------------|----------------|
| COMPUTED BY: MONICA J. DUVAL | DATE: 09/28/15 |
| CHECKED BY: DAVID W. BASS, PE | DATE: 09/28/15 |

| | |
|-----------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| P-4900B | 3B-1 |

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

| LOCATION | UNCLASSIFIED EXCAVATION | UNDERCUT | EMBT + % | BORROW | WASTE |
|---|-------------------------|----------|----------|--------|-------|
| -Y1- STA. 20+45.00 TO 24+00.00 | 0 | | 0 | - | 0 |
| -Y2- STA. 22+00.00 TO 47+00 | 9686 | | 14996 | 5810 | 500 |
| -Y3- STA. 11+50.00 TO 14+05.00 | 1239 | | 5 | 0 | 1234 |
| SUBTOTAL | 10925 | | 15001 | 5810 | 1734 |
| TOTAL | 10925 | | 15001 | 5810 | 1734 |
| LOSS DUE TO CLEARING AND GRUBBING. | -100 | | | | -100 |
| EST. UNDERCUT (PER GEOTECH) | 0 | | | | |
| WASTE IN LIEU OF BORROW | 0 | | | -1134 | -1134 |
| PROJECT TOTAL | 10825 | | 15001 | 4676 | 500 |
| EST. 5% TO REPLACE TOP SOIL ON BORROW | | | | 234 | |
| GRAND TOTAL | 10825 | | 15001 | 4910 | 500 |
| SAY | 11000 | | | 5000 | 500 |
| EST. UNDERCUT 1400 CY (PER GEOTECH) | | | | | |
| EST. SELECT GRANULAR MATERIAL 1400 CY (PER GEOTECH) | | | | | |

NOTE: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

| SURVEY LINE | STATION | STATION | LOCATION LT/RT/CL | YD2 |
|---------------|-------------------|----------------|-------------------|--------------|
| -Y2- | 23+06 | 23+45 | RT | 1819 |
| -Y3--Y2- | -Y3- STA 11+50.00 | -Y2- STA 46+15 | RT | 8217 |
| TOTAL: | | | | 10036 |
| SAY: | | | | 10100 |

5/7/16 09:59:05 AM R:\1\556624_Pembroke_Final_Design_Roadway\Proj\4900B\p4900b_rdy_sum.dgn

COMPUTED BY: Monica DuVal DATE: 09/28/15
 CHECKED BY: David W. Bass, PE DATE: 09/28/15

PROJECT NO. SHEET NO.
 P-4900B 3G-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

| LINE | Station | Station | Location LT/RT/CL | Drain Type* UD/BD/SD | LF |
|-------------|---------|---------|-------------------|----------------------|------|
| | | | | | |
| CONTINGENCY | | | | | 2000 |
| TOTAL LF: | | | | | 2000 |

*UD = Underdrain
 *BD = Blind Drain
 *SD = Subsurface Drain

SUMMARY OF BRIDGE WAITING PERIODS

| Bridge Description | End Bent/ Bent No. | MONTHS |
|--------------------|-----------------------|--------|
| | | |
| | | |

SUMMARY OF SETTLEMENT GAUGES

| Gauge No. | LINE | Approx. Station | Approx. Offset |
|----------------------|------|-----------------|----------------|
| | | | |
| TOTAL GAUGES (EACH): | | | |

SUMMARY OF ROCK PLATING

| LINE | Beginning Slope | Approx. Station | Ending Slope | Approx. Station | Location LT/RT | Rock Plating Detail No. 1/2/3/4 | Riprap Class* 1/2/B | SY |
|-----------|-----------------|-----------------|--------------|-----------------|----------------|---------------------------------|---------------------|----|
| | | | | | | | | |
| TOTAL SY: | | | | | | | | 0 |

*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

SUMMARY OF EMBANKMENT WAITING PERIODS

| LINE | Station | Station | MONTHS |
|------|---------|---------|--------|
| | | | |
| | | | |

SUMMARY OF SURCHARGES AND SURCHARGE WAITING PERIODS

| LINE | Station | Station | Surcharge Height FT | MONTHS |
|------|---------|---------|---------------------|--------|
| | | | | |
| | | | | |

SUMMARY OF REINFORCED SOIL SLOPES (RSS)

| LINE | Beginning Slope | Approx. Station | Ending Slope | Approx. Station | Location LT/RT | SY |
|-----------|-----------------|-----------------|--------------|-----------------|----------------|----|
| | | | | | | |
| TOTAL SY: | | | | | | 0 |


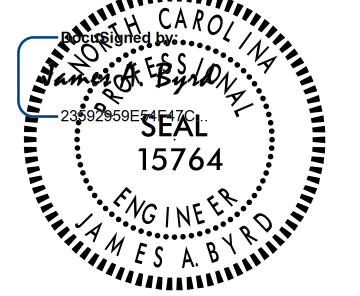
SUMMARY OF GEOTEXTILE FOR PAVEMENT STABILIZATION

| LINE | Station | Station | SY |
|-------------|---------|---------|----|
| | | | |
| CONTINGENCY | | | 0 |
| TOTAL SY: | | | 0 |

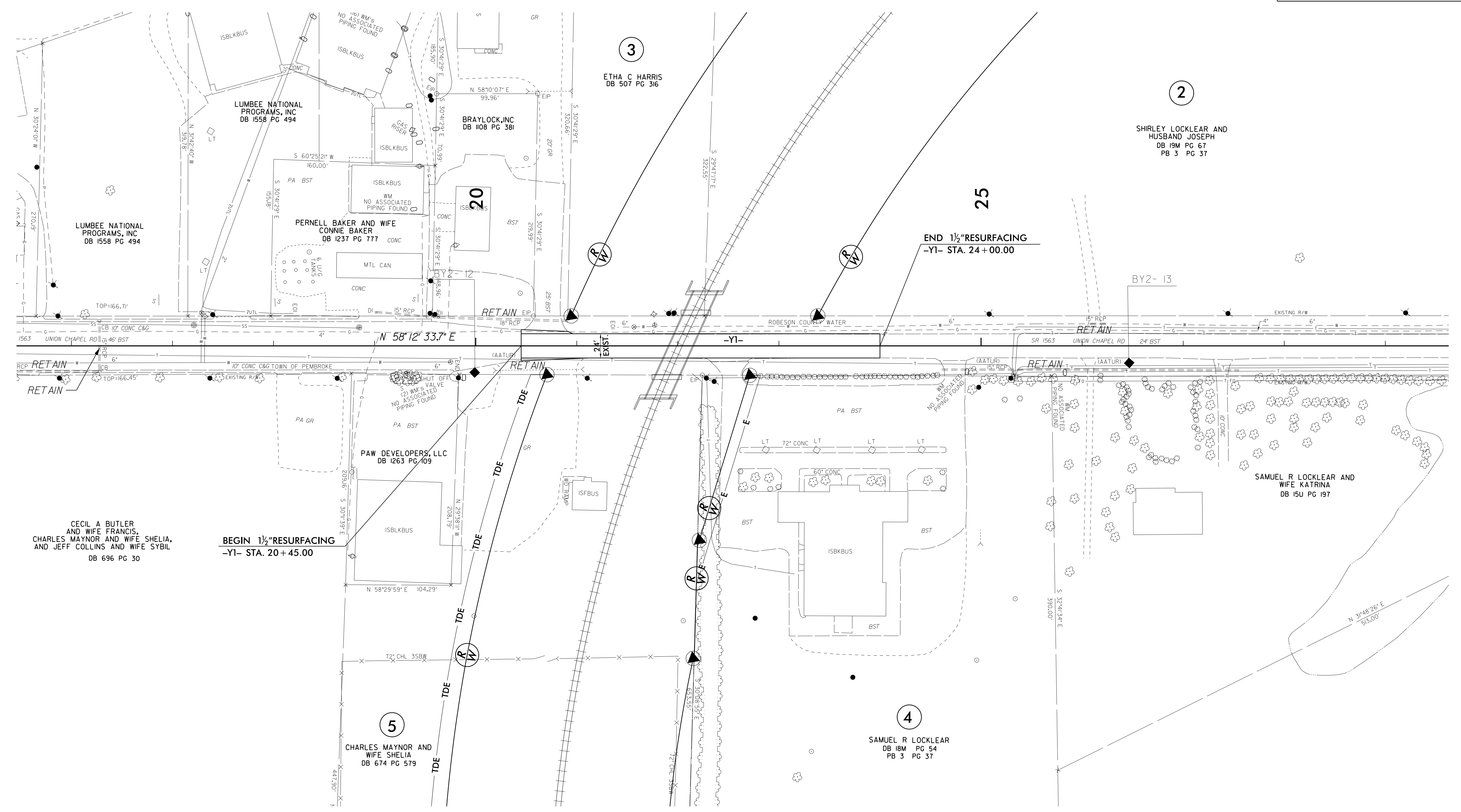
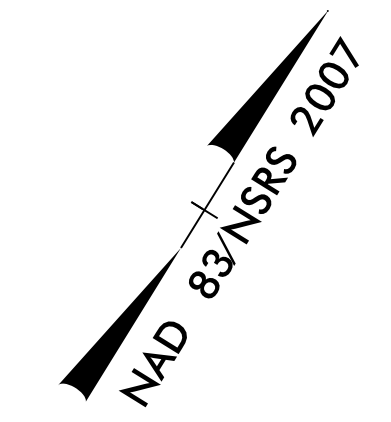
SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

| LINE | Station | Station | Aggregate Type ASU/AST | Aggregate Thickness INCHES | Shallow Undercut CY | Class IV Subgrade Stabilization TONS | Geotextile for Soil Stabilization SY | Stabilizer Aggregate TONS | Class IV Aggregate Stabilization TONS |
|-------------------|---------|---------|------------------------|----------------------------|---------------------|--------------------------------------|--------------------------------------|---------------------------|---------------------------------------|
| | | | | | | | | | |
| CONTINGENCY | | | | | | | 1400 | | |
| TOTAL CY/TONS/SY: | | | | | 0 | 0 | 1400* | 0 | 0 |

ASU = Aggregate Subgrade, AST = Aggregate Stabilization
 *Total square yards of Geotextile for Soil Stabilization is only the estimated quantity for ASU/AST and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.

| | |
|--|--|
| PROJECT REFERENCE NO. P-4900B | SHEET NO. 4 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER  10/13/2015 | HYDRAULICS ENGINEER  10/13/2015 |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

ALL PROPOSED RW AND RAIL WORK (INCLUDING STRUCTURE) TO BE PERFORMED UNDER TIP PROJECT P-4900A



5/14/99

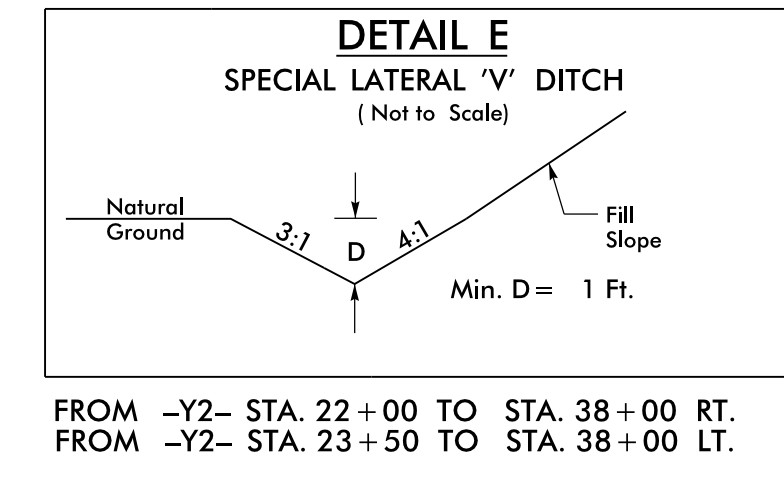
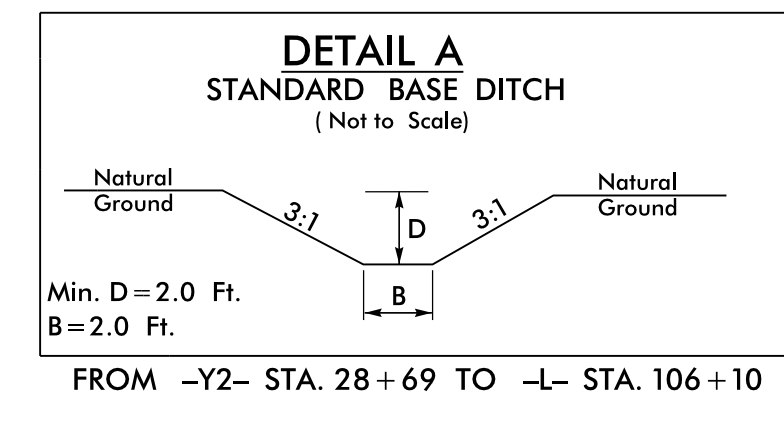
25-SEP-2015 11:04
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 \$\$\$\$
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 \$\$\$\$

NOTE:
FOR -Y1- PROFILE SEE SHEET 7

| | |
|--|-------------------------|
| PROJECT REFERENCE NO. P-4900B | SHEET NO. 5 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

NAD 83/NRS 2007

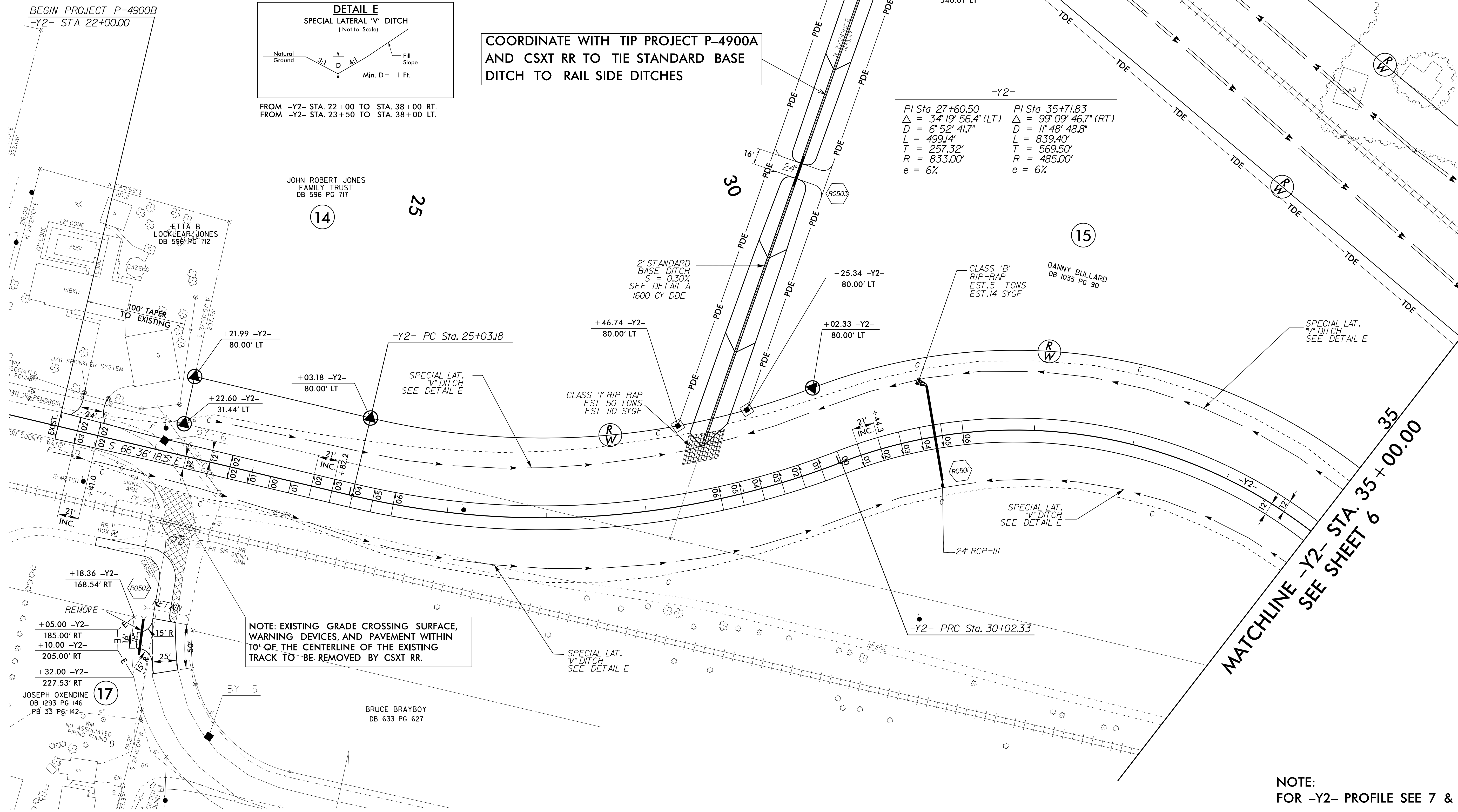
ALL PROPOSED R/W AND RAIL WORK (INCLUDING RAIL SIDE DITCHES) TO BE PERFORMED UNDER TIP PROJECT P-4900A



COORDINATE WITH TIP PROJECT P-4900A AND CSXT RR TO TIE STANDARD BASE DITCH TO RAIL SIDE DITCHES

-Y2-


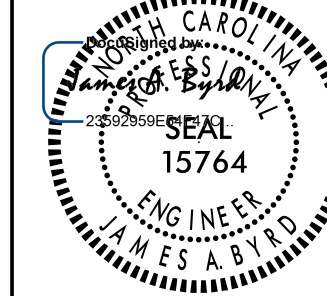
| | |
|------------------------------------|------------------------------------|
| PI Sta 27+60.50 | PI Sta 35+71.83 |
| $\Delta = 34^{\circ}19'56.4"$ (LT) | $\Delta = 99^{\circ}09'46.7"$ (RT) |
| D = 6' 52" 41.7" | D = 11' 48" 48.8" |
| L = 499.14' | L = 839.40' |
| T = 257.32' | T = 569.50' |
| R = 833.00' | R = 485.00' |
| e = 6% | e = 6% |



MATCHLINE -Y2- STA. 35+00.00
SEE SHEET 6

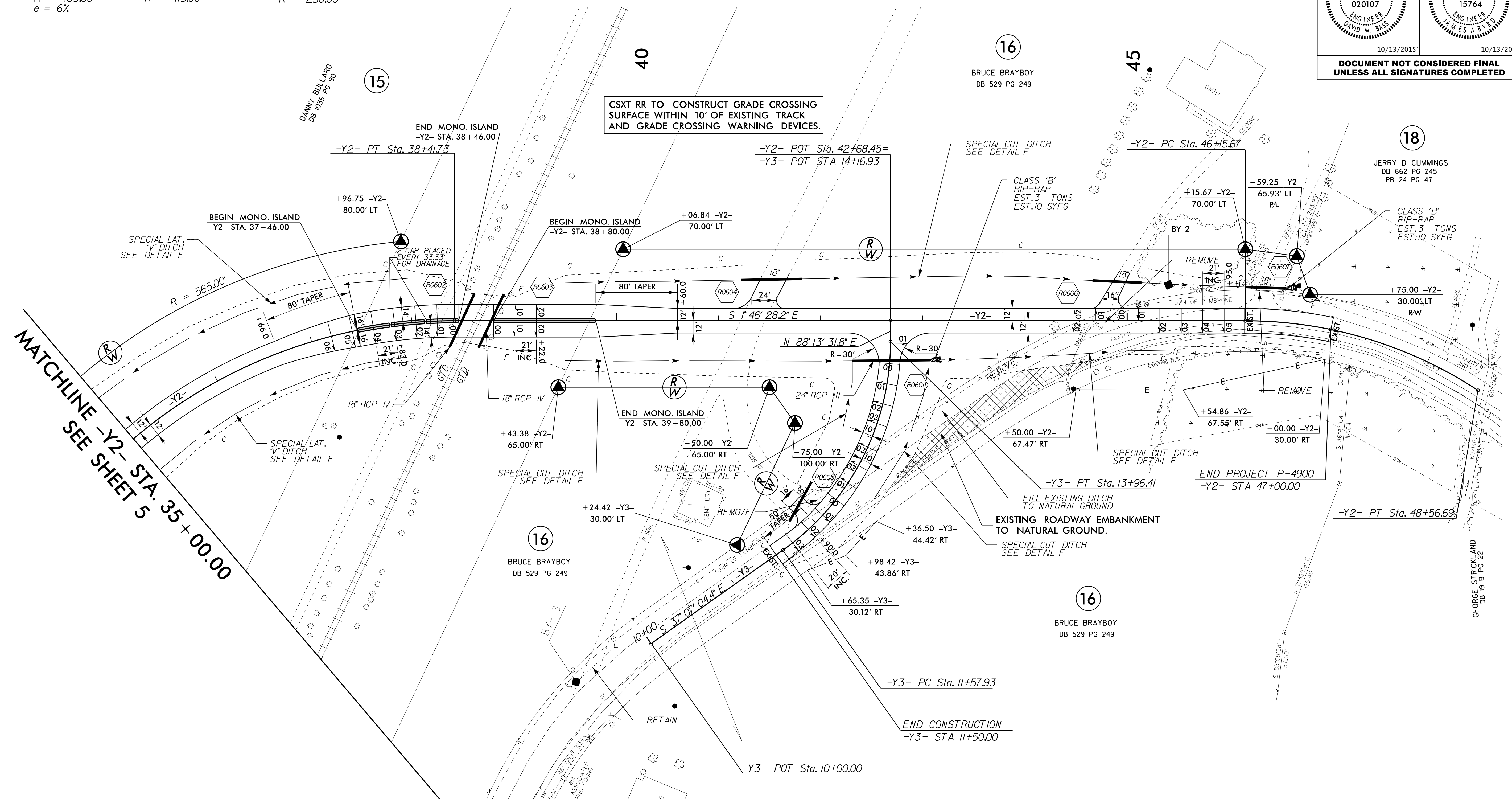
NOTE:
FOR -Y2- PROFILE SEE 7 & 8

28-SEP-2015 16:24:11 Design\Roadway\Proo\4900B\p4900B_r-dj-psht05.dgn

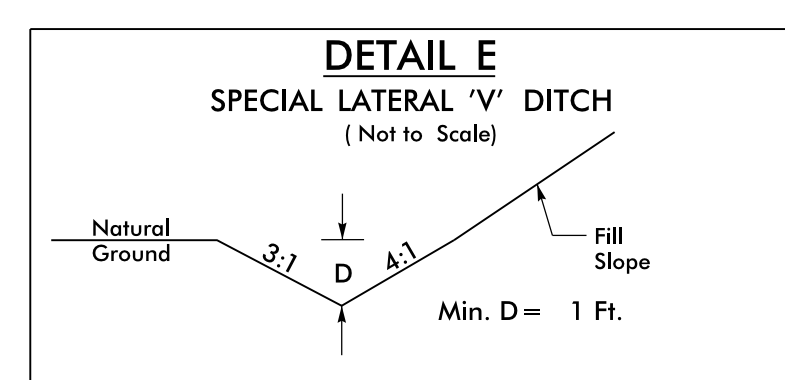
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|--|--|
| PROJECT REFERENCE NO. P-4900B | SHEET NO. 6 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER  |
| 10/13/2015 | 10/13/2015 |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

| -Y2- | | -Y3- | |
|---------------------------------------|---------------------------------------|---------------------------------------|--|
| PI Sta. 35+71.83 | PI Sta. 47+39.69 | PI Sta. 12+87.12 | |
| $\Delta = 99^{\circ} 09' 46.7''$ (RT) | $\Delta = 33^{\circ} 16' 30.6''$ (RT) | $\Delta = 54^{\circ} 39' 23.8''$ (LT) | |
| D = 11' 48" 48.8" | D = 13' 48" 22.4" | D = 22' 55" 05.9" | |
| L = 839.40' | L = 241.02' | L = 238.48' | |
| T = 569.50' | T = 124.01' | T = 129.19' | |
| R = 485.00' | R = 415.00' | R = 250.00' | |
| e = 6% | | | |

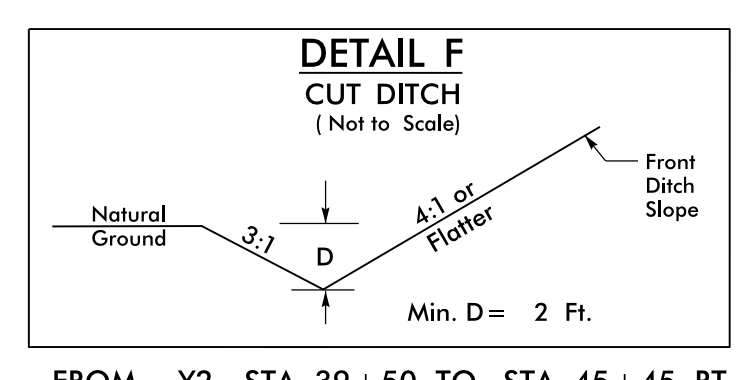
NAD 83/NSRS 2007



MATCHLINE -Y2- STA. 35+00.00
SEE SHEET 5



FROM -Y2- STA. 22+00 TO STA. 38+00 RT.
FROM -Y2- STA. 23+50 TO STA. 38+00 LT.



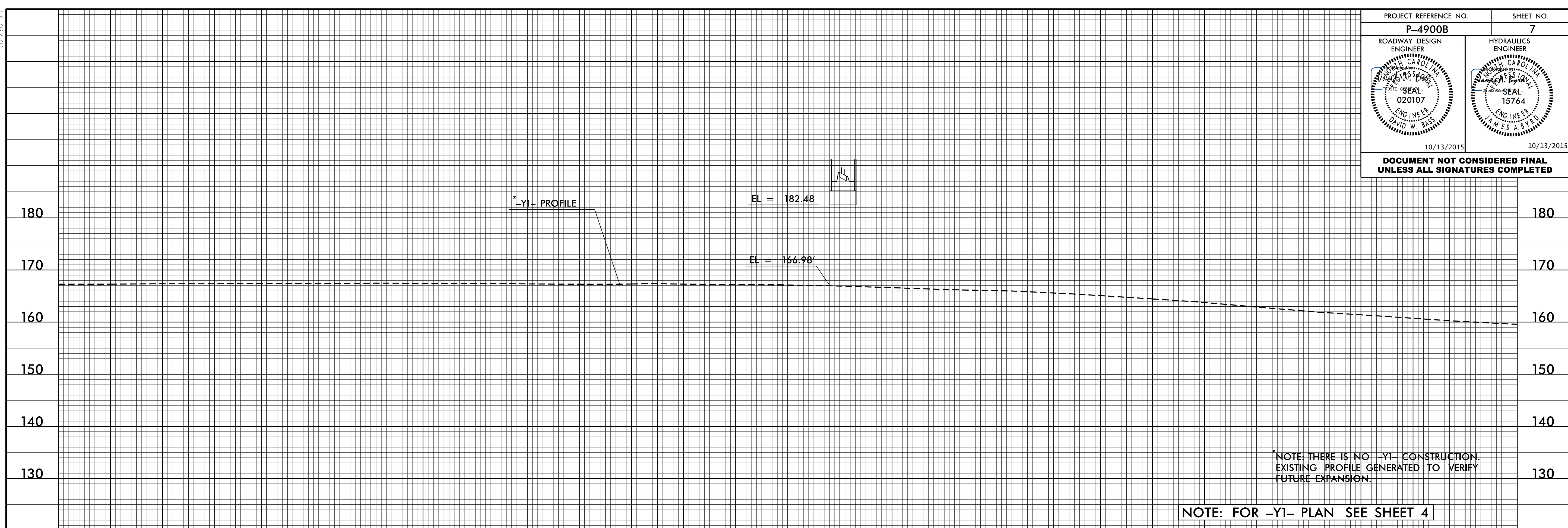
FROM -Y2- STA. 39+50 TO STA. 45+45 RT.
FROM -Y2- STA. 39+50 TO STA. 46+64 LT.
FROM -Y3- STA. 12+50 TO STA. 13+81 RT.
FROM -Y3- STA. 13+00 TO STA. 13+74 LT.

NOTE:
FOR -Y2- PROFILE SEE SHEET 7 & 8

28-SEP-2015 16:47:11 Design\Roadway\Proj\4900B\p4900B_r-dj_psh06.dgn

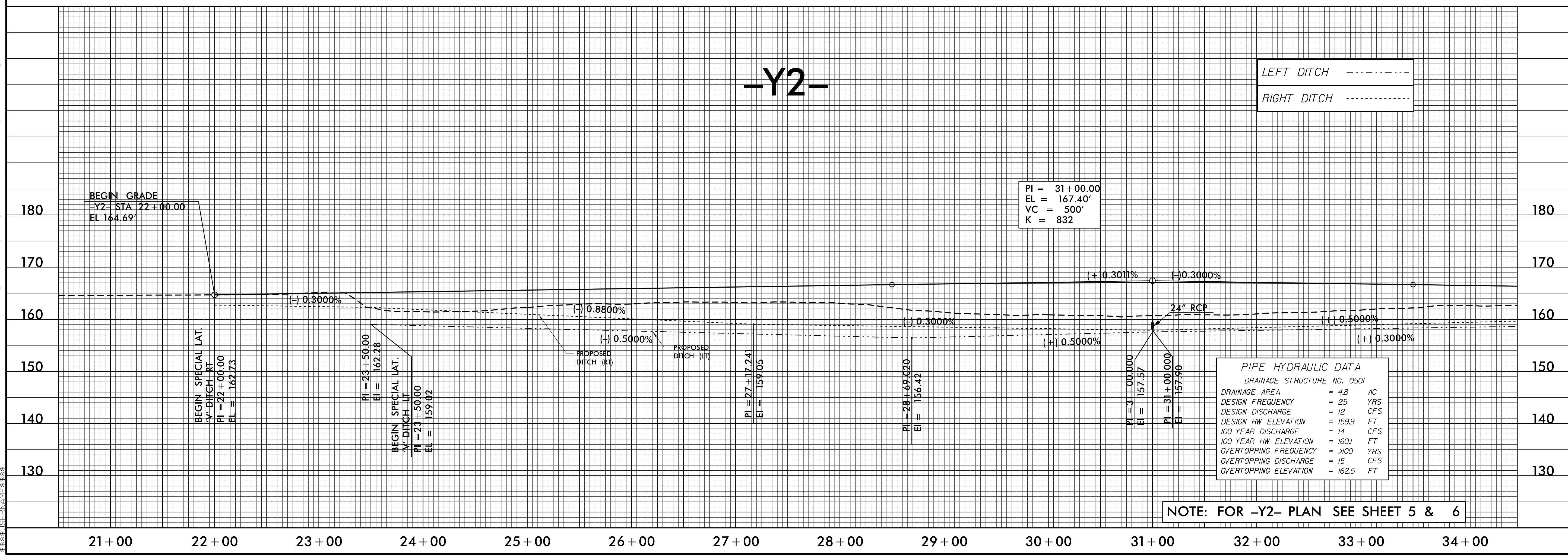
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|--|---|
| PROJECT REFERENCE NO. P-4900B | SHEET NO. 7 |
| ROADWAY DESIGN ENGINEER DAVID W. BASS 020107 10/13/2015 | HYDRAULICS ENGINEER JAMES B. YED 15764 10/13/2015 |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

5/28/19

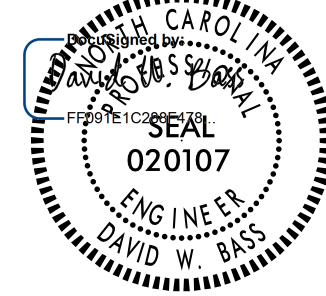
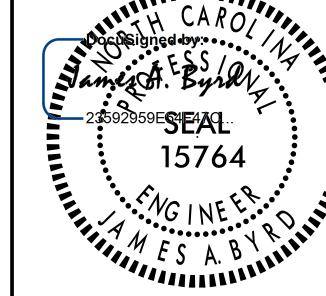


15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 24+00 26+00 27+00 28+00

R:\SEP-2015\15457\15457.dwg 10/8/15 10:00 AM 15457.dwg



21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00

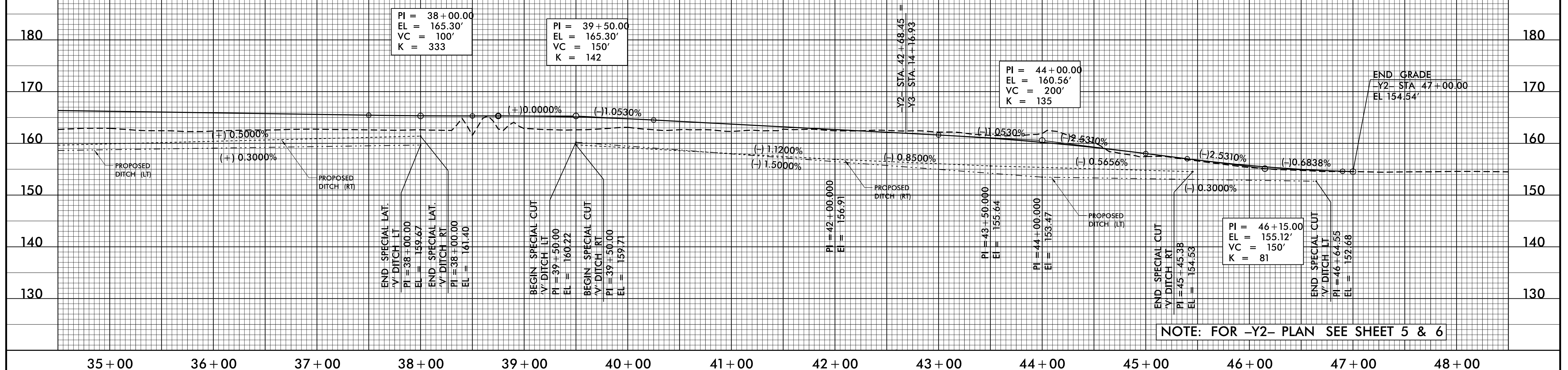
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|--|--|
| PROJECT REFERENCE NO. P-4900B | SHEET NO. 8 |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER  |
| 10/13/2015 | 10/13/2015 |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

5/28/19

-Y2-

LEFT DITCH -----

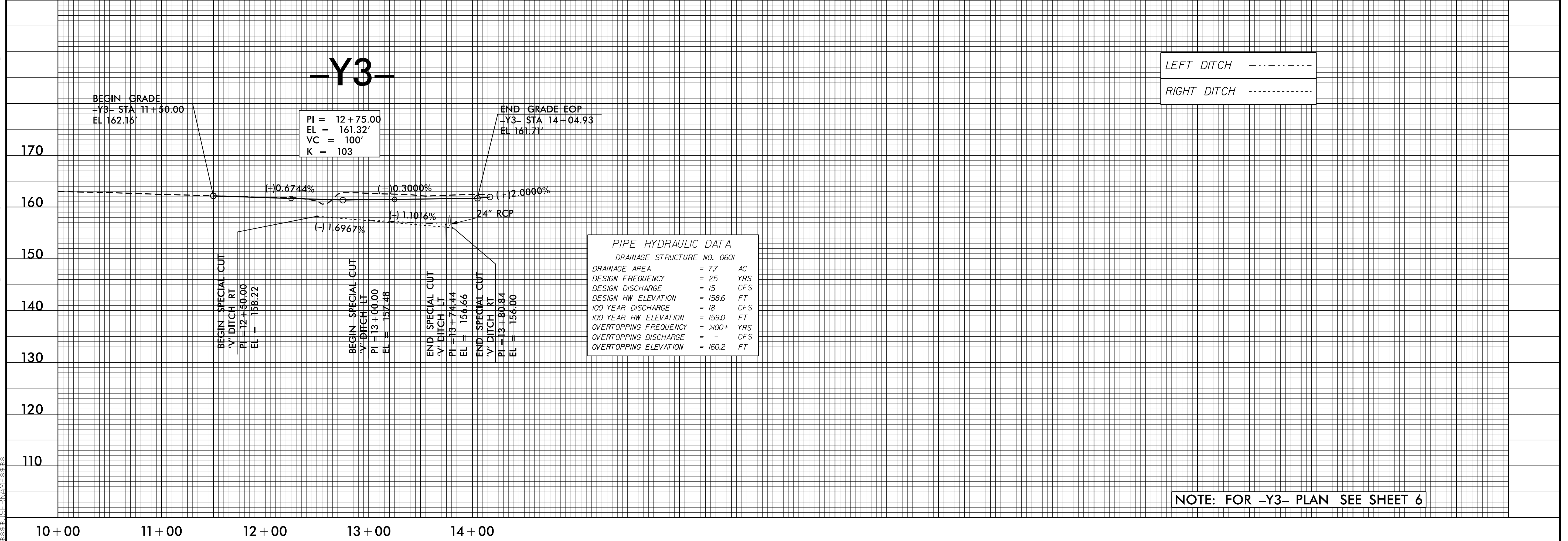
RIGHT DITCH -----



-Y3-

LEFT DITCH -----

RIGHT DITCH -----



PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO. 0601

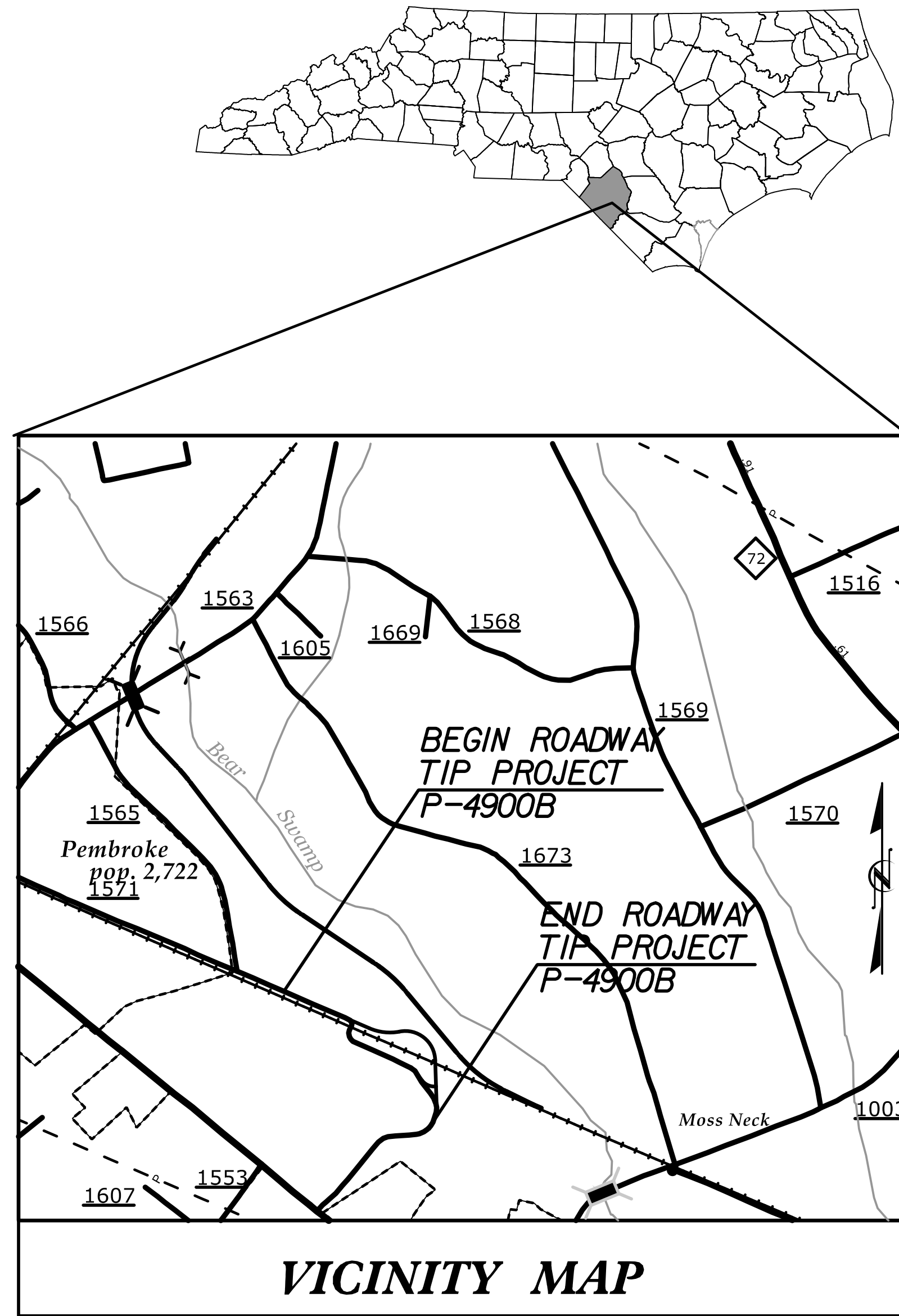
| | | |
|-----------------------|---------|-----|
| DRAINAGE AREA | = 7.7 | AC |
| DESIGN FREQUENCY | = 25 | YRS |
| DESIGN DISCHARGE | = 15 | CFS |
| DESIGN HW ELEVATION | = 158.6 | FT |
| 100 YEAR DISCHARGE | = 18 | CFS |
| 100 YEAR HW ELEVATION | = 159.0 | FT |
| OVERTOPPING FREQUENCY | = >100+ | YRS |
| OVERTOPPING DISCHARGE | = - | CFS |
| OVERTOPPING ELEVATION | = 160.2 | FT |

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

ROBESON COUNTY



VICINITY MAP

LOCATION: GRADE CROSSING RELOCATION ON SR 1571 (JONES RD)

INDEX OF SHEETS

| SHEET NO. | TITLE |
|-----------|--|
| TMP-1 | TITLE SHEET AND INDEX OF SHEETS |
| TMP-1A | LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING |
| TMP-1B | GENERAL NOTES AND PHASING |
| TMP-2 & 3 | PHASE I DETAILS |
| TMP-4 & 5 | PHASE II DETAILS |

SHEET NO.
TMP-1

P-4900B

TIP PROJECT:

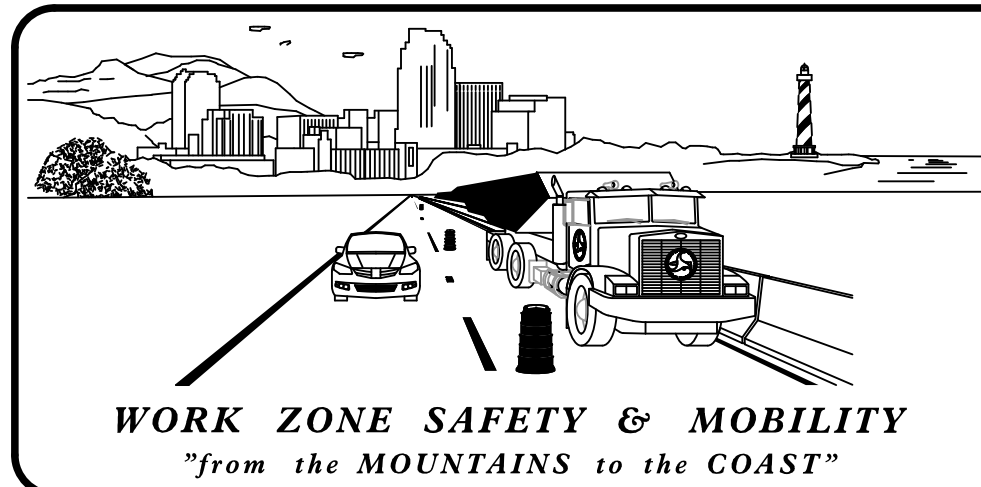
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

R. B. EARLY, PE _____ **TRAFFIC CONTROL PROJECT ENGINEER**
R. B. EARLY, PE _____ **TRAFFIC CONTROL PROJECT DESIGN ENGINEER**
J. A. PHILLIPS _____ **TRAFFIC CONTROL DESIGN ENGINEER**

APPROVED: _____
DATE: 10/13/2015

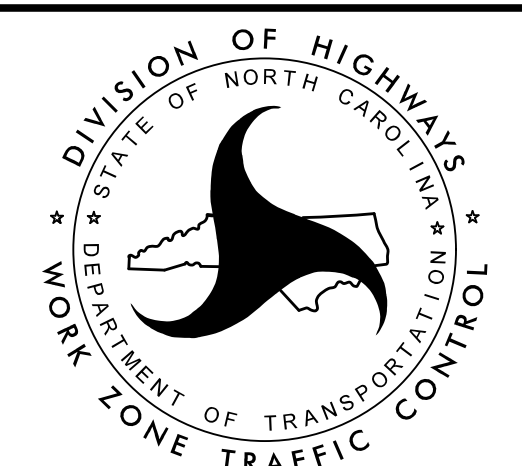


SEAL



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. _____ **STATE TRAFFIC MANAGEMENT ENGINEER**
J. S. KITE, P.E. _____ **EASTERN TRAFFIC CONTROL ENGINEER**
D. A. PARKER _____ **TRAFFIC CONTROL PROJECT DESIGN ENGINEER**



REVISIONS

10/12/15 10:12:50 AM
C:\Users\jphillips\Documents\4900B\4900B_TIP.dgn
\$\$\$\$\$
QA/QC STAGE:
REVIEW:
CONCUR:
REVISE:
VERIFY:

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN 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 |
|----------|---|
| 1101.01 | WORK ZONE ADVANCE WARNING SIGNS |
| 1101.02 | TEMPORARY LANE CLOSURES |
| 1101.04 | TEMPORARY SHOULDER CLOSURES |
| 1101.05 | WORK ZONE VEHICLE ACCESSES |
| 1101.11 | TRAFFIC CONTROL DESIGN TABLES |
| 1110.01 | STATIONARY WORK ZONE SIGNS |
| 1110.02 | PORTABLE WORK ZONE SIGNS |
| 1130.01 | DRUMS |
| 1135.01 | CONES |
| 1145.01 | BARRICADES |
| 1150.01 | FLAGGING DEVICES |
| 1180.01 | SKINNY-DRUM |
| 1205.01 | PAVEMENT MARKINGS - LINE TYPES & OFFSETS |
| 1205.02 | PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS |

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA

REMOVAL

WEDGE / WIDEN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

LEGEND

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

- CRYSTAL / CRYSTAL
- CRYSTAL / RED
- YELLOW / YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

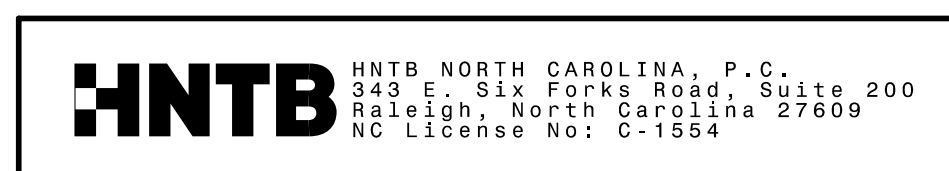
TEMPORARY PAVEMENT MARKING

| SYMBOL | DESCRIPTION | PAY ITEM |
|--------|-------------------------------|-------------|
| | <u>PAVEMENT MARKING LINES</u> | |
| PA | WHITE EDGELINE | PAINT (4") |
| PI | YELLOW DOUBLE CENTER LINE | |
| P1 | WHITE LINE, RR X | PAINT (16") |
| P2 | WHITE STOPBAR | PAINT (24") |
| QI | ALPHANUMERIC CHARACTER | PAINT |

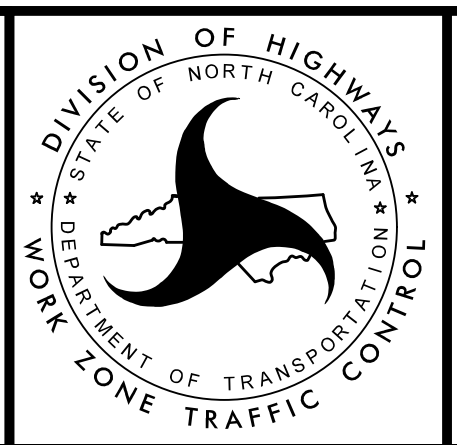
REVISIONS

8/17/99

3/13/18 PM P. 4900B te_TMP_01A.dgn
\$\$\$\$\$SUBSTRATE\$\$\$\$\$



APPROVED: Rhonda B. Early
 DATE: 10/13/2015
 SEAL



TRANSPORTATION
MANAGEMENT PLAN

**ROADWAY STANDARD
DRAWINGS & LEGENDS**

GENERAL NOTES

PHASING

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIREED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

K) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

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.

TRAFFIC CONTROL DEVICES

L) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

M) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT MARKINGS AND MARKERS

N) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

| ROAD NAME | MARKING | MARKER |
|--------------------------------------|---------|--------|
| 1. -Y2- AND -Y3- (SR 1571, JONES RD) | PAINT | NONE |

O) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

P) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

Q) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

R) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME. BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 200 FT AND 200 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

NOTES:

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE. THIS MAY REQUIRE TEMPORARY DITCHES.

PAVE PROPOSED CONSTRUCTION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, IN ALL PHASES UNTIL STATED TO INSTALL FINAL LAYER IN THE PHASING.

THE TERM RSD DENOTES "ROADWAY STANDARD DRAWING".

PHASE I

(SEE TMP-2 AND TMP-3)

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON SR 1571 (JONES RD) ACCORDING TO RSD 1101.01.

STEP 2: AWAY FROM TRAFFIC, CONSTRUCT -Y2- FROM STA 23+50+/- TO STA 40+90+/- AND -Y2- FROM STA 41+70+/- TO STA 43+40+/- . CONSTRUCT PROPOSED ISLANDS AND INSTALL RAILROAD SIGNALS. CONSTRUCT -Y3- FROM STA 13+00+/- TO -Y2-. (LN-2,5)

USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, CONSTRUCT -Y2- FROM STA 40+90+/- TO STA 41+70+/-, -Y2- FROM STA 43+40+/- TO STA 47+00+/-, AND -Y3- FROM 11+50+/- TO STA 13+00+/- . SEE SHEETS TMP-2 & TMP-3. (LN-1,3)

STEP 3: ACTIVATE RR SIGNALS AT -Y2- STA 38+50+/- AND PLACE TEMPORARY PAVEMENT MARKING AS MUCH AS POSSIBLE AWAY FROM TRAFFIC. SEE SHEETS TMP-4 & TMP-5. (LN-2,5)

STEP 4: USING RSD 1101.02 (SHEET 1 OF 15) AND INCIDENTAL STONE OR AGGREGATE BASE COURSE TO MAINTAIN TRAFFIC, REMOVE EXISTING PAVEMENT AND CONSTRUCT -Y2- TIE-IN FROM STA 22+00+/- TO STA 23+50+/- . PLACE PAVEMENT MARKINGS AND SHIFT TRAFFIC TO NEW ALIGNMENT. SEE SHEET TMP-2. (LN-4)

PHASE II

(SEE TMP-4 AND TMP-5)

STEP 1: USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, COMPLETE THE FOLLOWING:

- * REMOVE EXISTING PAVEMENT AND CONSTRUCT CULDESAC & DRIVEWAY RIGHT OF -Y2- STA 23+00+/- . (LN-2,5)
- * REMOVE EXISTING PAVEMENT FROM -Y3- STA 11+50+/- (RT) TO -Y2- STA 46+00+/- (RT).
- * COMPLETE SHOULDER CONSTRUCTION RIGHT OF -Y2- STA 41+50+/- .
- * COMPLETE SHOULDER CONSTRUCTION AND DRIVEWAY LEFT OF -Y3- STA 12+00+/- .

STEP 2: USING RSD 1101.02 (SHEET 1 OF 15), PLACE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS ON ALL ROADS ACCORDING TO THE FINAL PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER. (LN-4,6)

PAVEMENT EDGE DROP OFF REQUIREMENTS

F) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

G) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 200 FT IN ADVANCE OF THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

H) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATIONS.

SIGNING

I) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

J) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERNS.

LOCAL NOTES

LN-1 PROVIDE TEMPORARY WEDGING TO MAINTAIN TRAFFIC ON EXISTING PAVEMENT WITH SMOOTH TRANSITION GRADES DURING CONSTRUCTION OF TIE-INS.

LN-2 COORDINATE ALL ACTIVITIES AROUND RAILROAD WITH CSXT GENERAL MANAGER. RAILROAD FLAGGER(S) MUST BE PRESENT AT ANY TIME A TRAIN IS EXPECTED WHEN SIGNAL(S) ARE NOT IN OPERATION &/OR AT LOCATIONS THAT ARE NOT SIGNALIZED.

LN-3 USE INCIDENTAL STONE TO PROVIDE SMOOTH GRADE TYING EXISTING SOIL OR GRAVEL ROAD/DRIVE TO NEW PAVEMENT OR CONSTRUCTION AREA.

LN-4 COORDINATE ALL ACTIVITIES AROUND RAILROAD WITH CSXT GENERAL MANAGER. WHEN USING ONE-LANE, TWO-WAY TRAFFIC ACROSS RAILROAD, RAILROAD FLAGGER(S) MUST BE PRESENT AT ANY TIME A TRAIN IS EXPECTED.

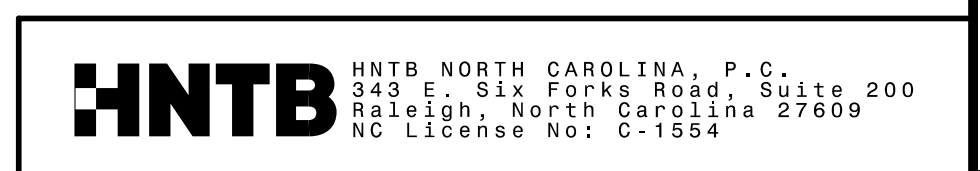
LN-5 CSXT TO COMPLETE ALL WORK WITHIN 10' OF EXISTING TRACKS (INCLUDING SIGNAL REMOVAL).

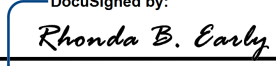


LN-6 PLACEMENT OF FINAL LAYER OF SURFACE COURSE IS TO INCLUDE Y1 FROM STA 20+45+/- TO STA 24+00+/- (CONSTRUCTED UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE IN P-4900A).

REVISIONS

8/17/99

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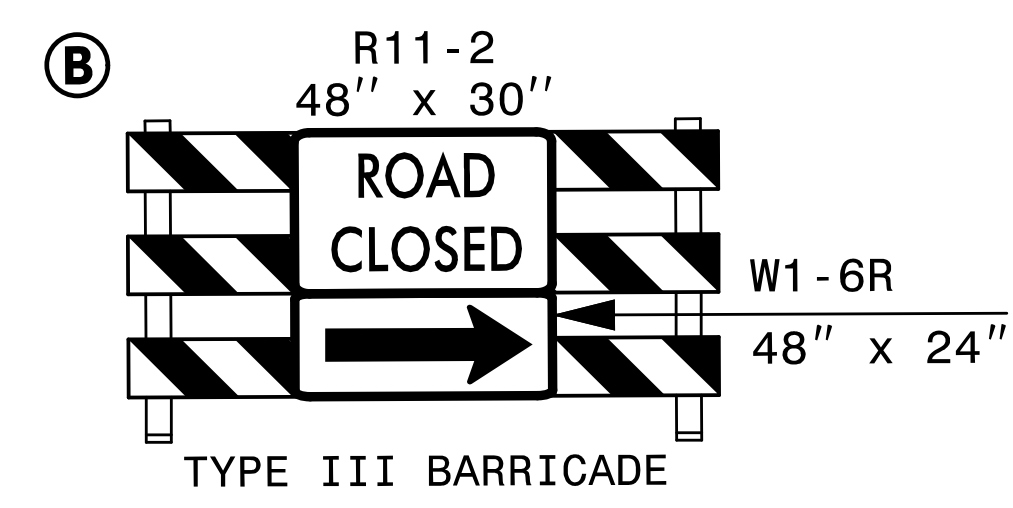
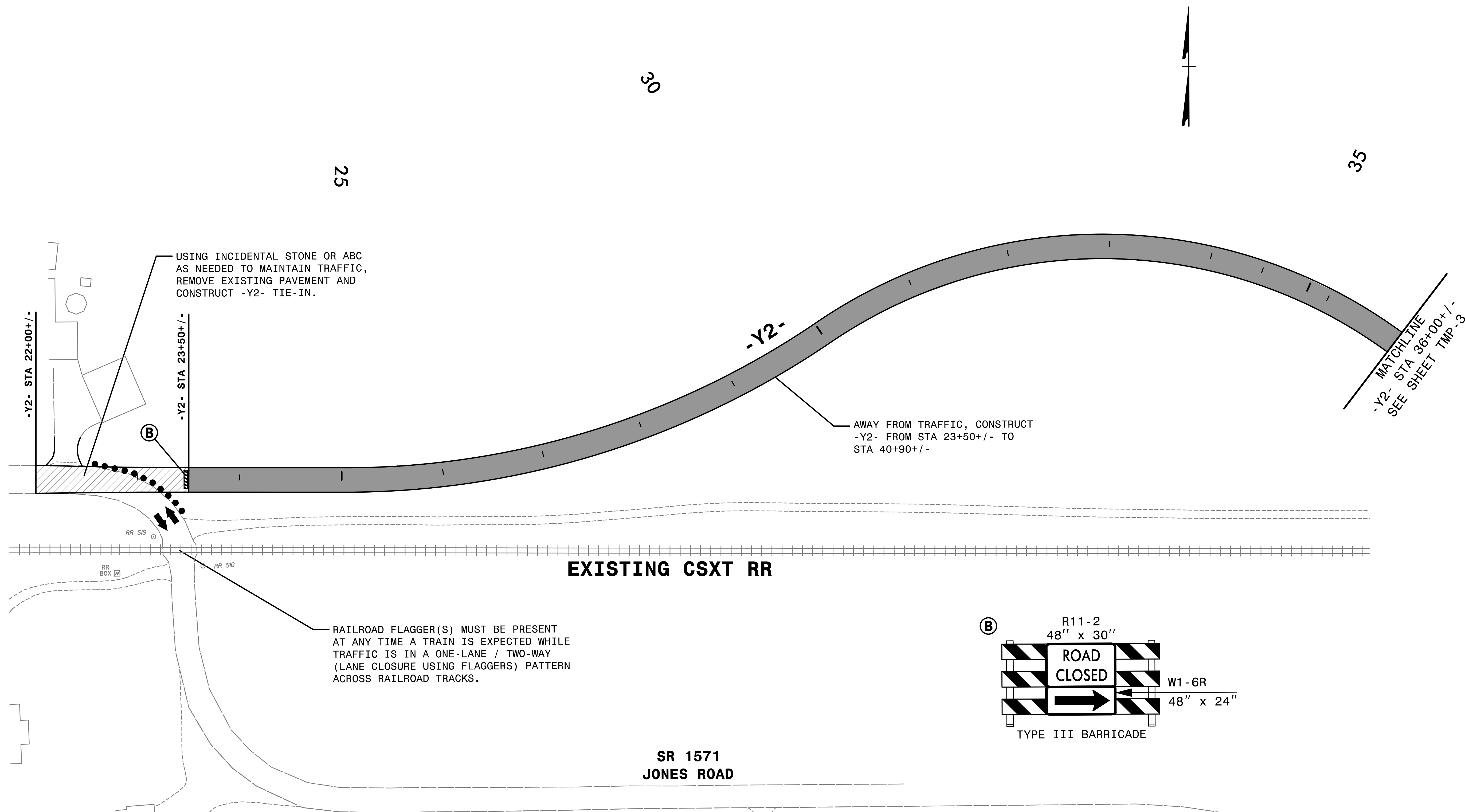


| | | | |
|---|---|---|--|
| APPROVED:  DATE: 10/13/2015 |  |  | TRANSPORTATION MANAGEMENT PLAN GENERAL NOTES & PHASING |
|---|---|---|--|

8/17/99

REVISIONS

3:14:16 PM 10/13/2015 4900B\4900B_te.p1d2.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$



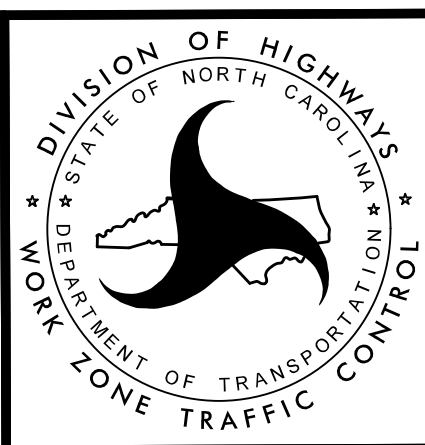
EXISTING CSXT RR

SR 1571
JONES ROAD

APPROVED: *Rhonda B. Early*
F34CAF5AC68F84

DATE: 10/13/2015

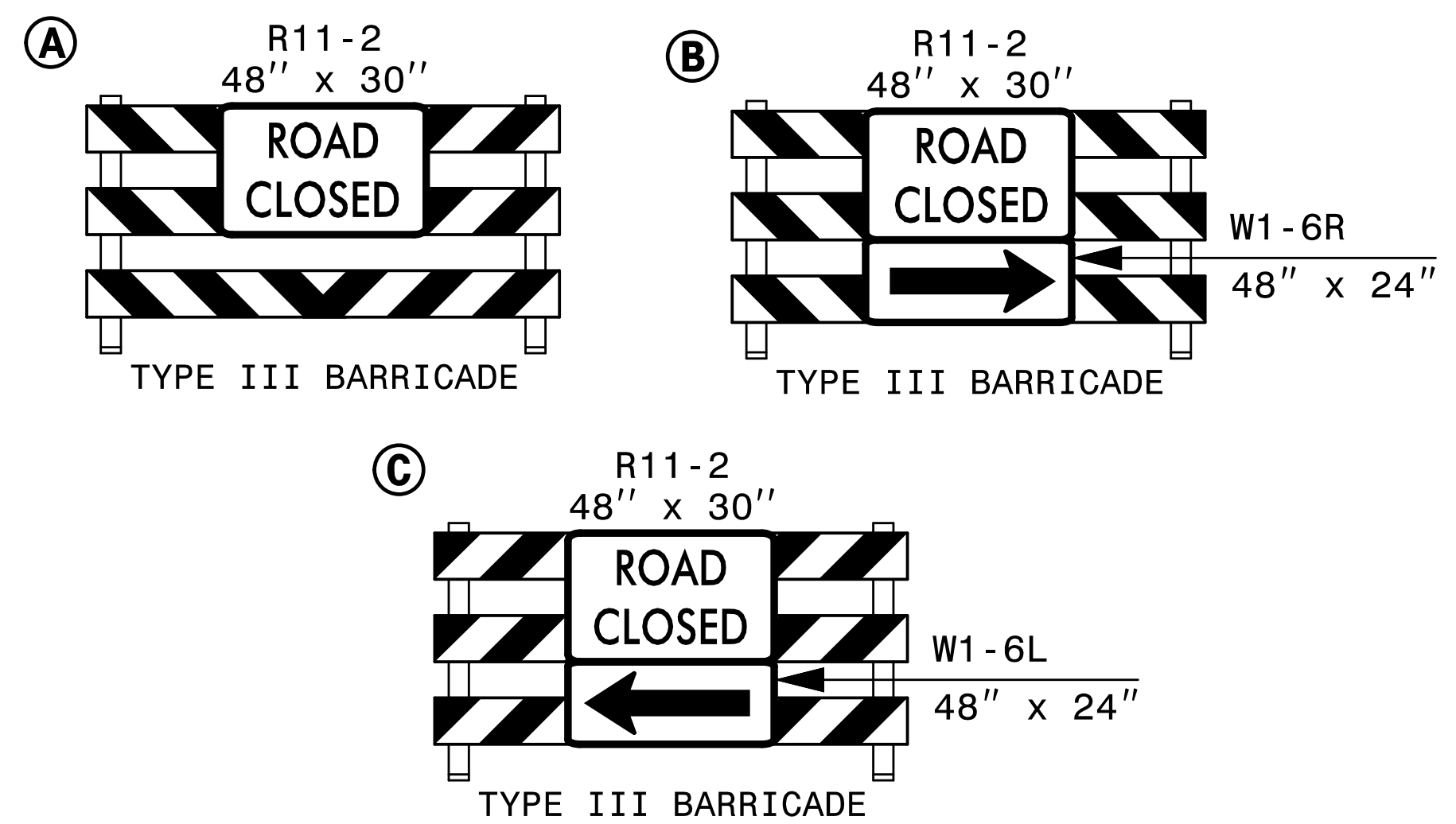
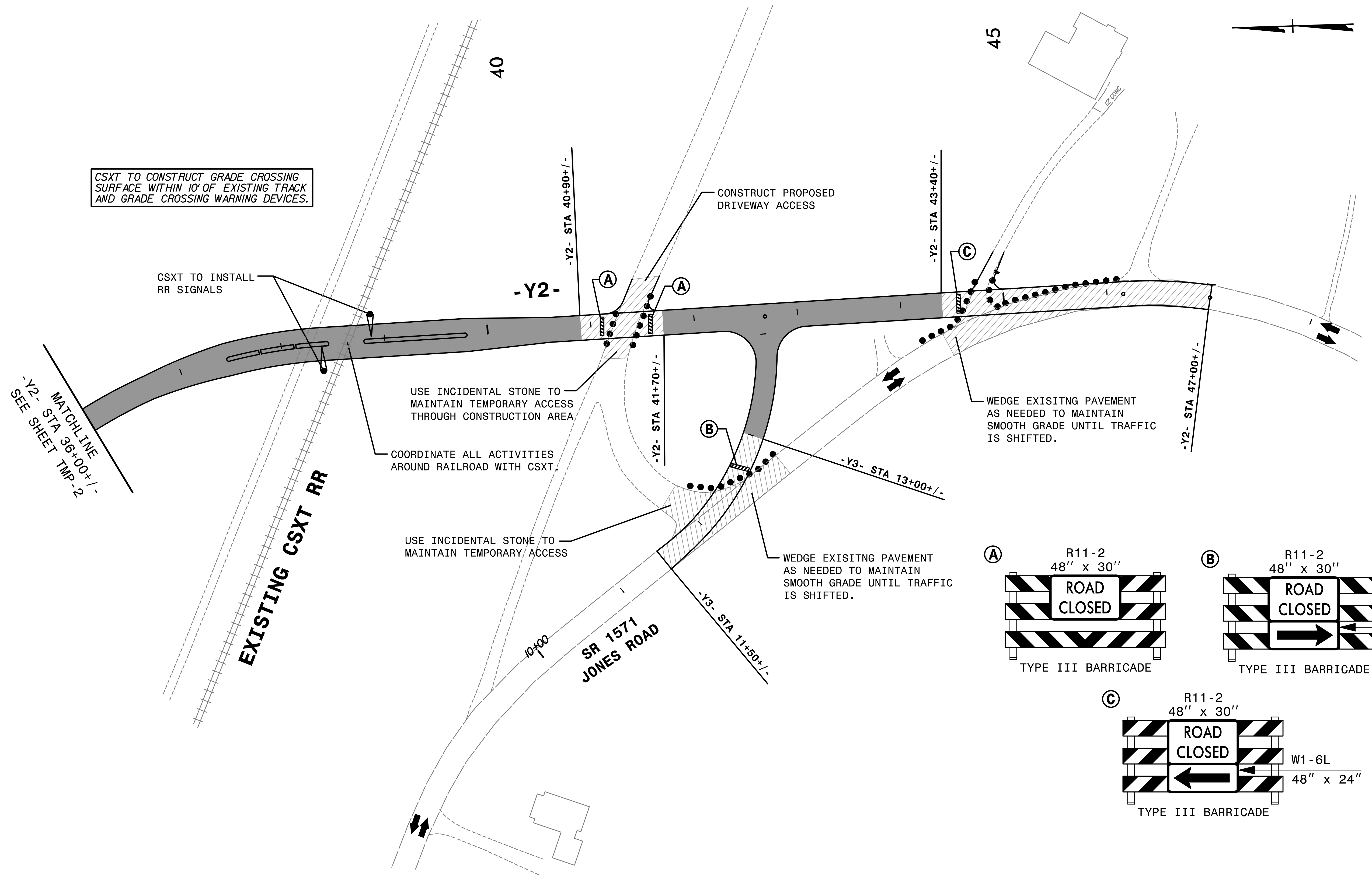
SEAL



TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL 1

HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554



REVISIONS

8/17/99

3/14/14 PM 4:00:00 4900_te_pl.d3.dgn

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

APPROVED: *Rhonda B. Early*
DATE: 10/13/2015

SEAL

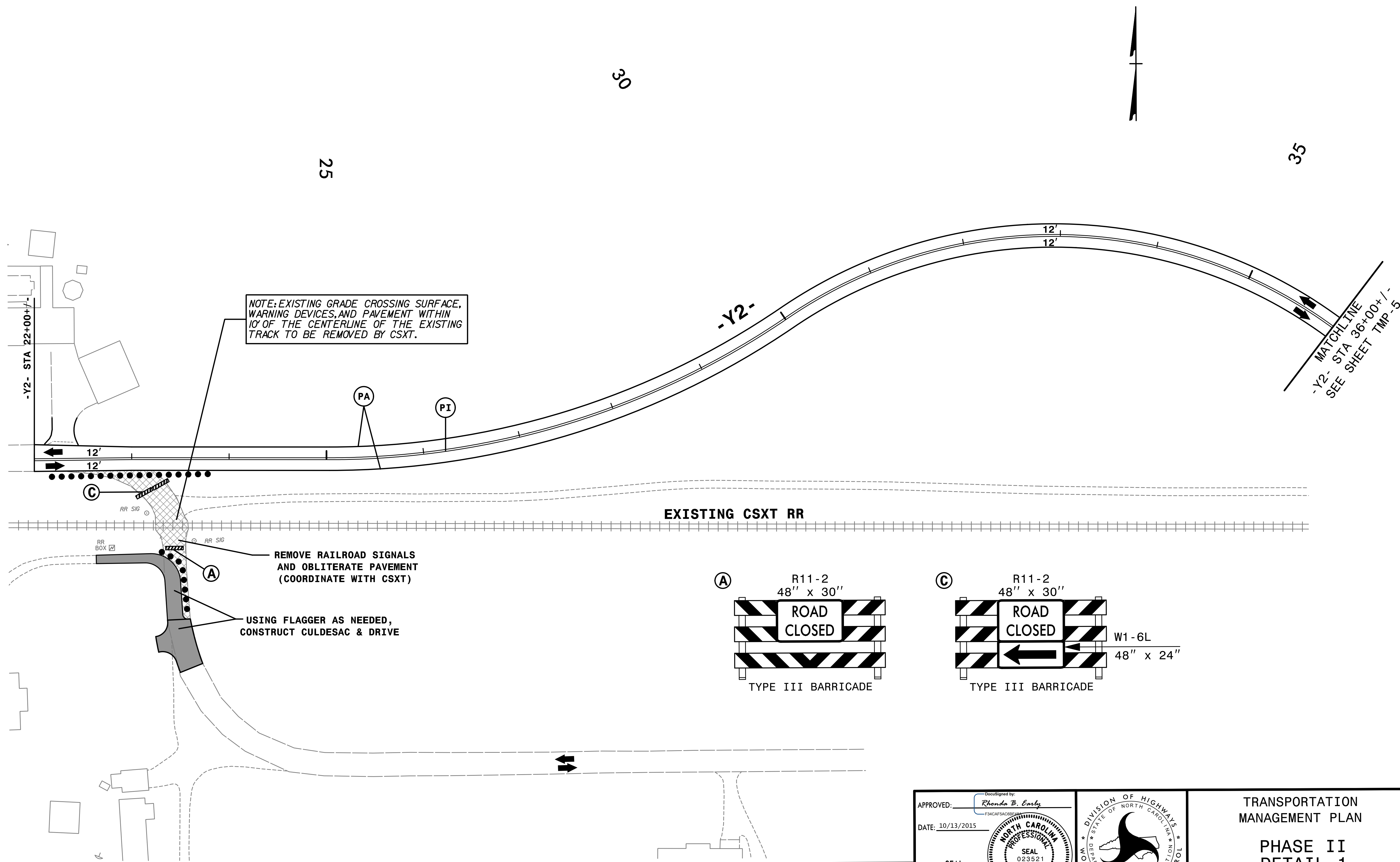
TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL 2

8/17/99

REVISIONS

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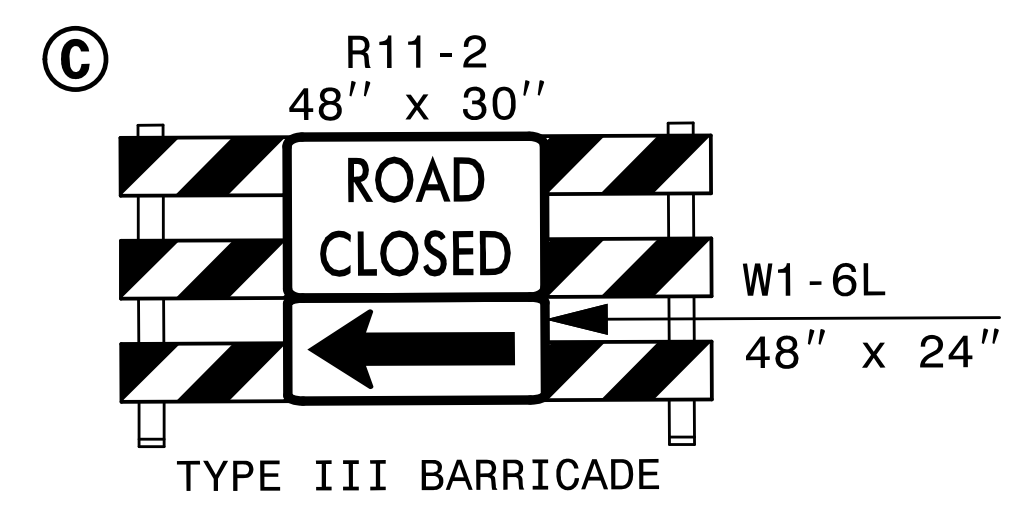
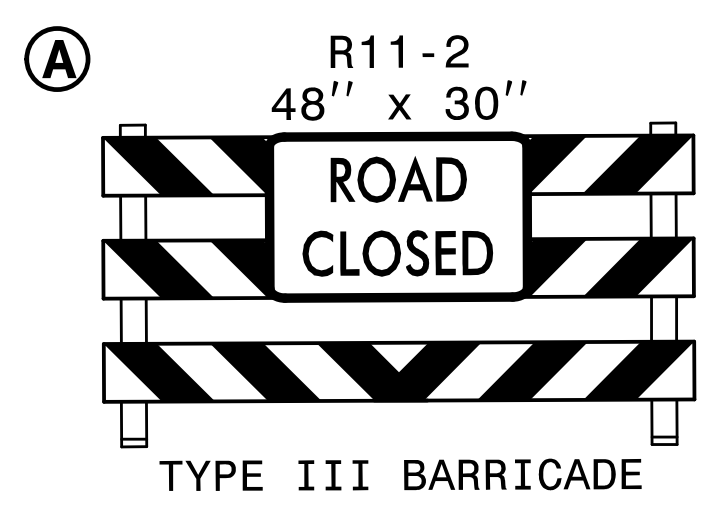


NOTE: EXISTING GRADE CROSSING SURFACE, WARNING DEVICES, AND PAVEMENT WITHIN 10' OF THE CENTERLINE OF THE EXISTING TRACK TO BE REMOVED BY CSXT.

REMOVE RAILROAD SIGNALS AND OBLITERATE PAVEMENT (COORDINATE WITH CSXT)

USING FLAGGER AS NEEDED, CONSTRUCT CULDESAC & DRIVE

EXISTING CSXT RR



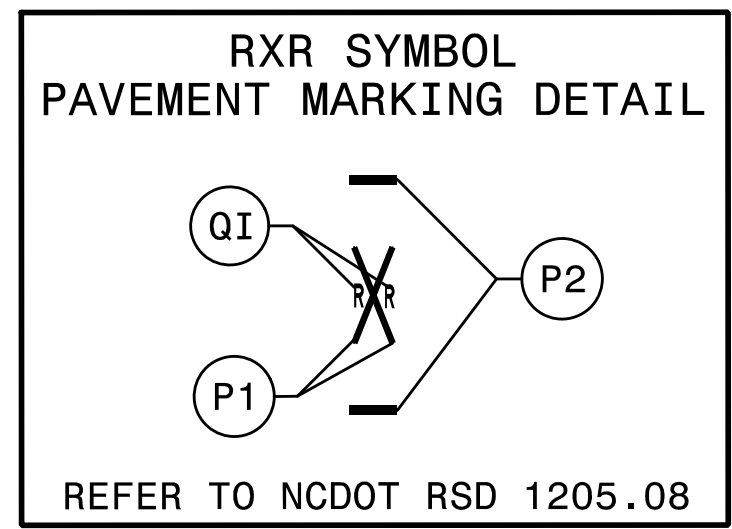
HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

APPROVED: *Rhonda B. Early*
DATE: 10/13/2015

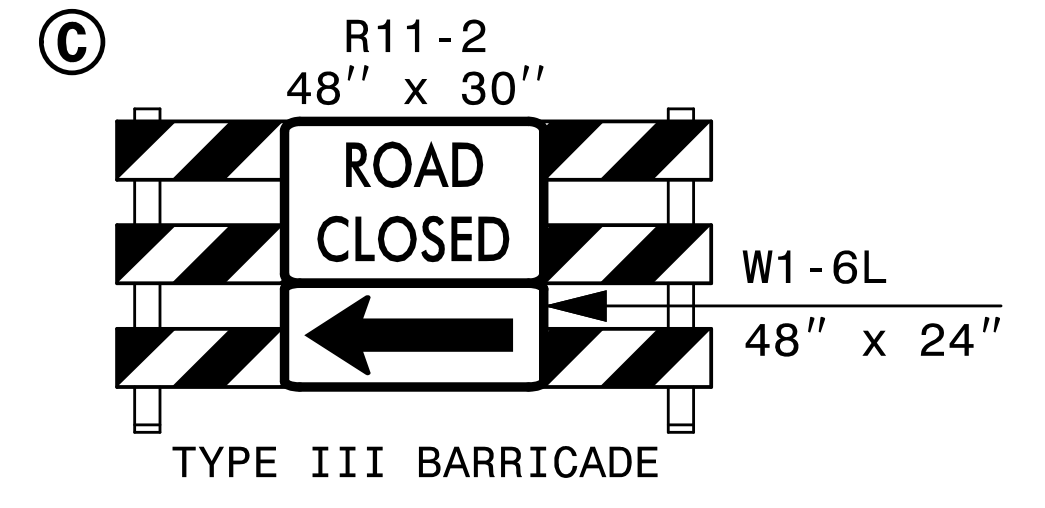
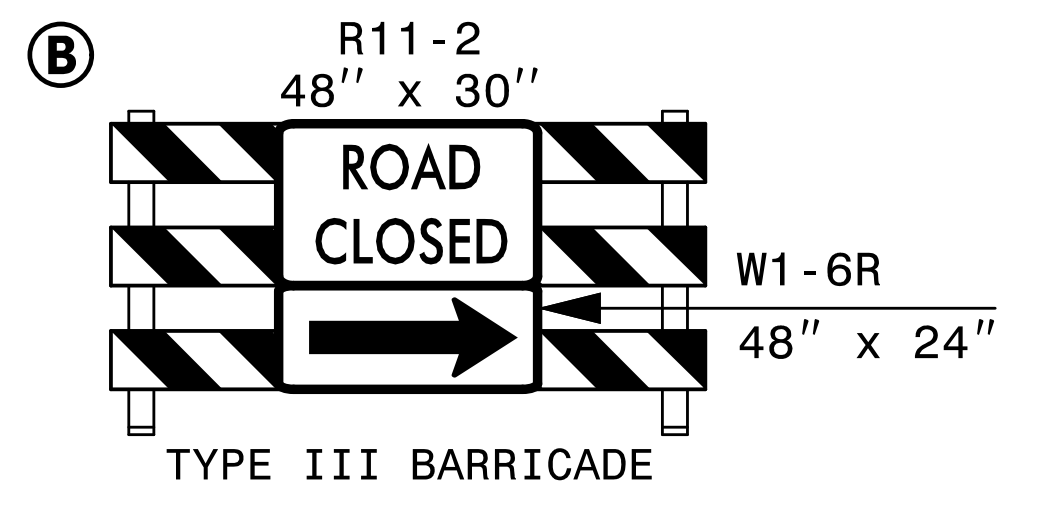
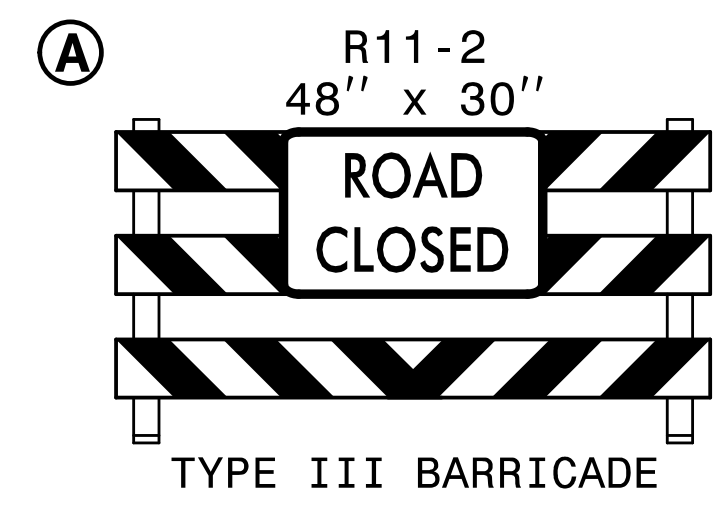
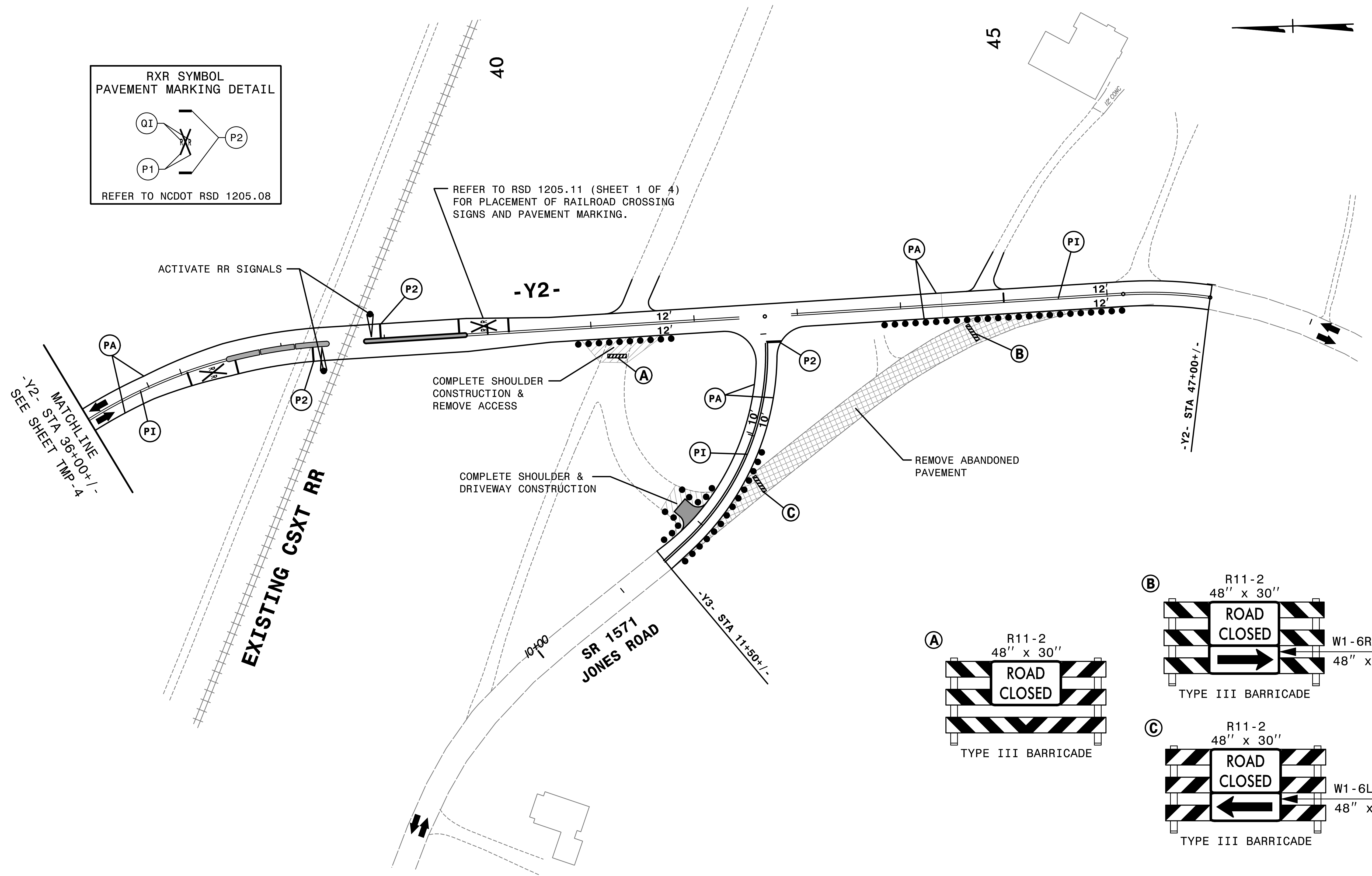
SEAL

TRANSPORTATION
MANAGEMENT PLAN

PHASE II
DETAIL 1



REFER TO RSD 1205.11 (SHEET 1 OF 4)
FOR PLACEMENT OF RAILROAD CROSSING
SIGNS AND PAVEMENT MARKING.

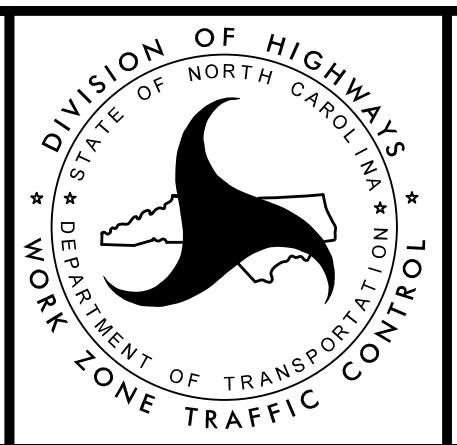


REVISIONS

315135 PM 10/13/2015
 PLOT STRAIGHTENED
 ***P2.dwg.dgn

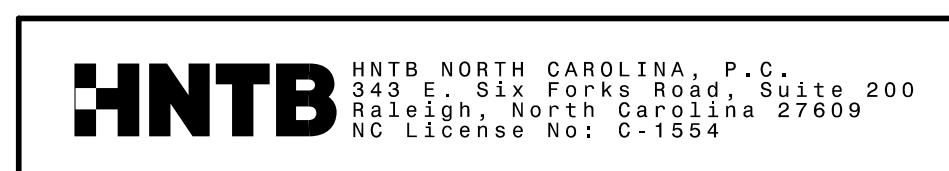
APPROVED: *Rhonda B. Early*
 DATE: 10/13/2015

SEAL



TRANSPORTATION
MANAGEMENT PLAN

PHASE II
DETAIL 2



09.08/09

| | | | |
|-----------------|-----------------------------|-------------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | P-4900B | EC-1 | 12 |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| | | | |
| | | | |
| | | | |
| | | | |

STATE OF NORTH CAROLINA
NCDOT RAIL DIVISION

ROBESON COUNTY
EROSION CONTROL

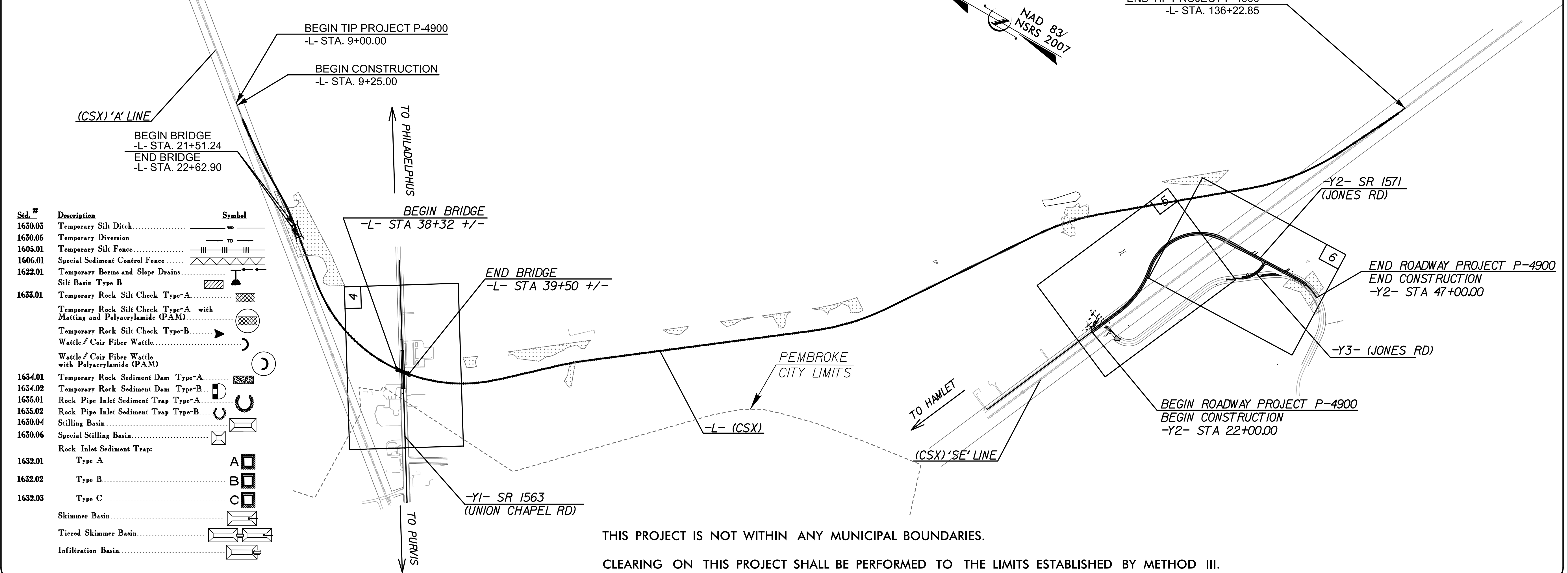
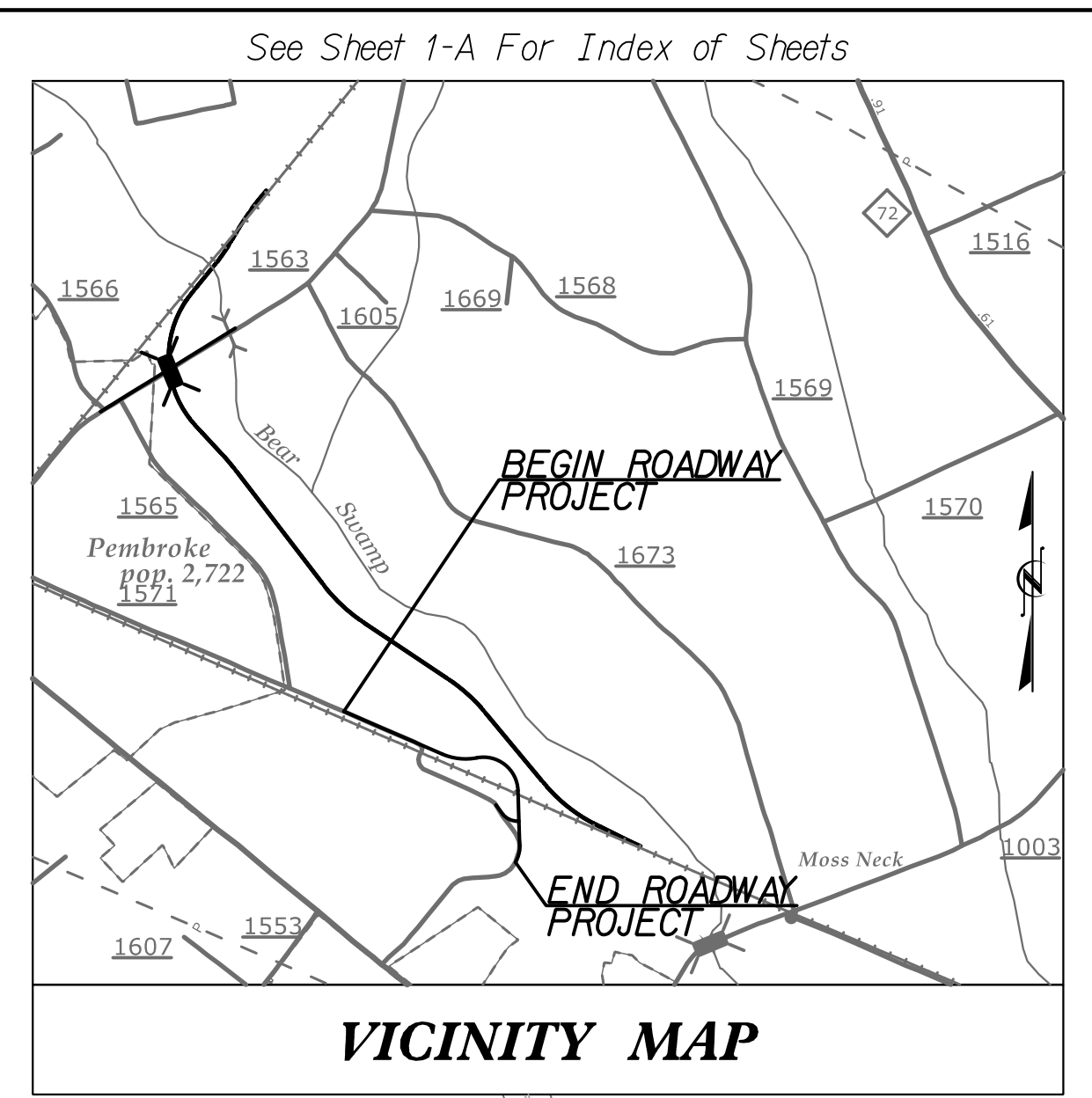
LOCATION: RAIL GRADE SEPARATION OVER SR 1563 (UNION CHAPEL RD)
& GRADE CROSSING RELOCATION ON SR 1571 (JONES RD).

TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE.

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

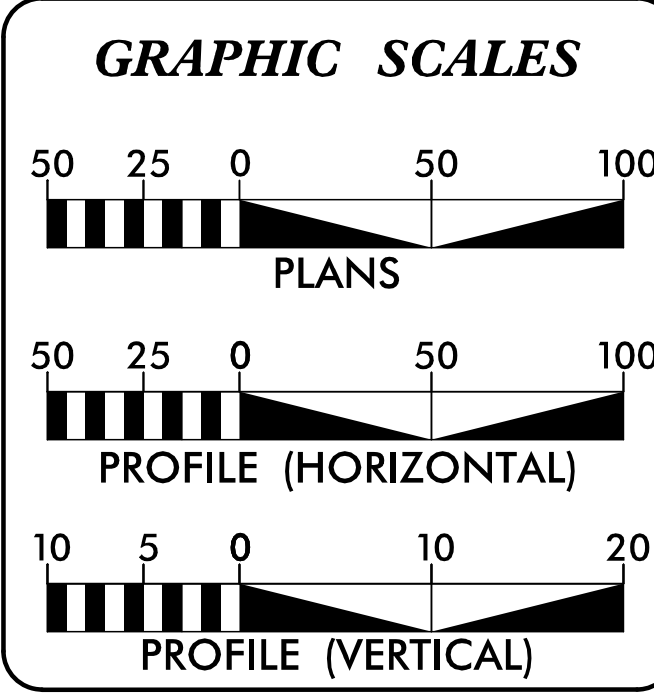
TIP PROJECT: P-4900B

CONTRACT:



| Sta. # | Description | Symbol |
|---------|--|--------|
| 1630.05 | Temporary Silt Ditch | — |
| 1630.05 | Temporary Diversion | TD |
| 1605.01 | Temporary Silt Fence | |
| 1606.01 | Special Sediment Control Fence | |
| 1622.01 | Temporary Berms and Slope Drains | — |
| 1633.01 | Silt Basin Type B | □ |
| 1633.01 | Temporary Rock Silt Check Type-A | ▨ |
| 1633.01 | Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM) | ▨ |
| 1633.01 | Temporary Rock Silt Check Type-B | ▨ |
| 1633.01 | Wattle / Coir Fiber Wattle | — |
| 1633.01 | 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 | □ |
| 1632.01 | Rock Inlet Sediment Trap: Type A | A |
| 1632.02 | Type B | B |
| 1632.03 | Type C | C |
| | Skimmer Basin | □ |
| | Tiered Skimmer Basin | □ |
| | Infiltration Basin | □ |

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.



DESIGN DATA

ADT 2012 = 7,800
ADT 2035 = 15,600
DHV = 10 %
D = 60 %
T = 3 % *
V = 40 MPH
* TTST = 1 DUAL = 2
FUNC CLASS = LOCAL
SUB REGIONAL TIER

Prepared In the Office of:

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

2012 STANDARD SPECIFICATIONS

JOHN F. WATSON, P.E.
EROSION CONTROL
LEVEL III-A
CERTIFICATION #3419

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 | |

NC DEPARTMENT OF
TRANSPORTATION
RAIL DIVISION
PLANNING AND DEVELOPMENT

8:53:20 AM
\\55624\proj\ec\1\sh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

| | |
|----------------------------------|---------------------|
| PROJECT REFERENCE NO. P-4900B | SHEET NO. EC-2 |
| RW SHEET NO. | |
| RAILROAD DESIGN ENGINEER | HYDRAULICS ENGINEER |

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) 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.

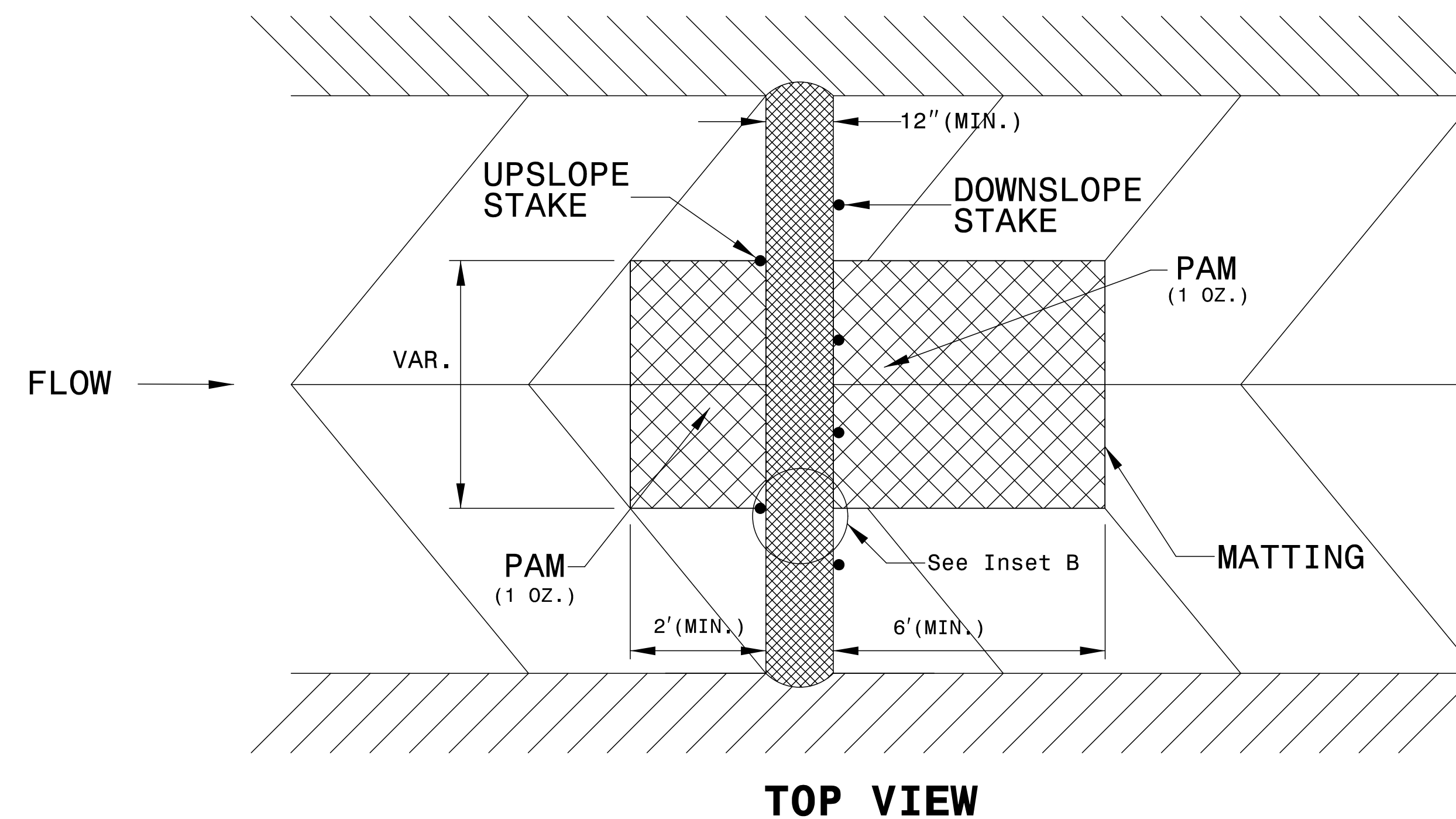
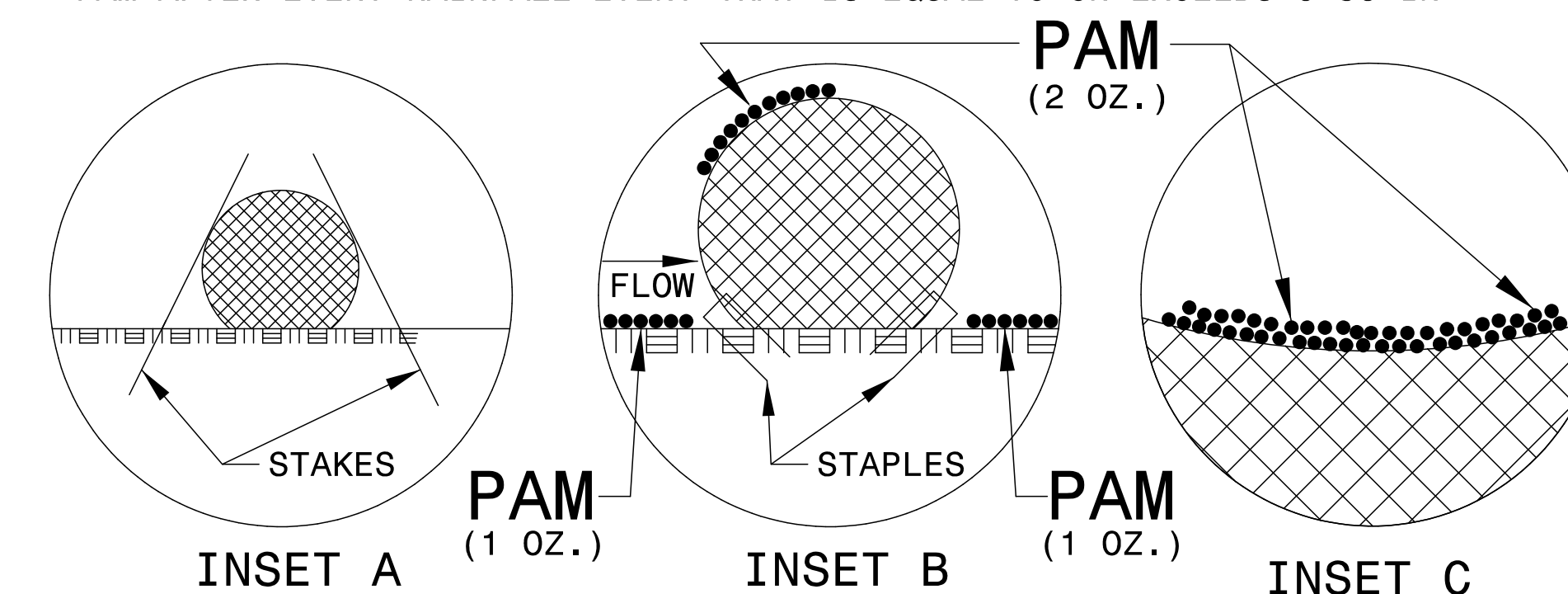
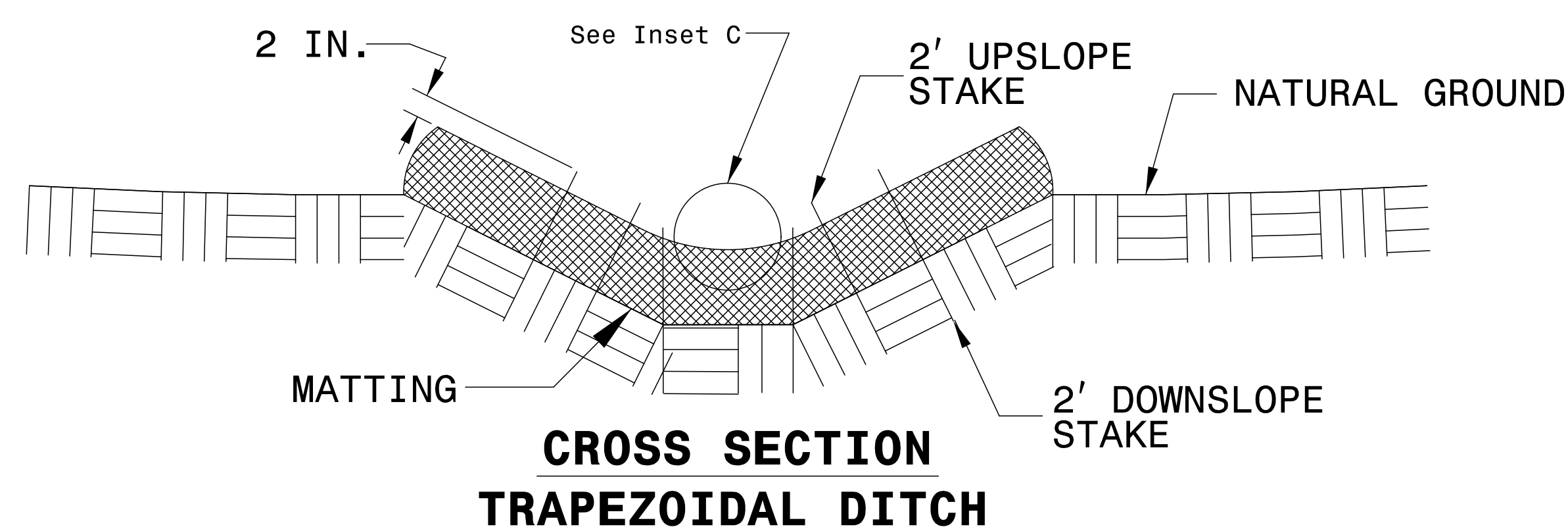
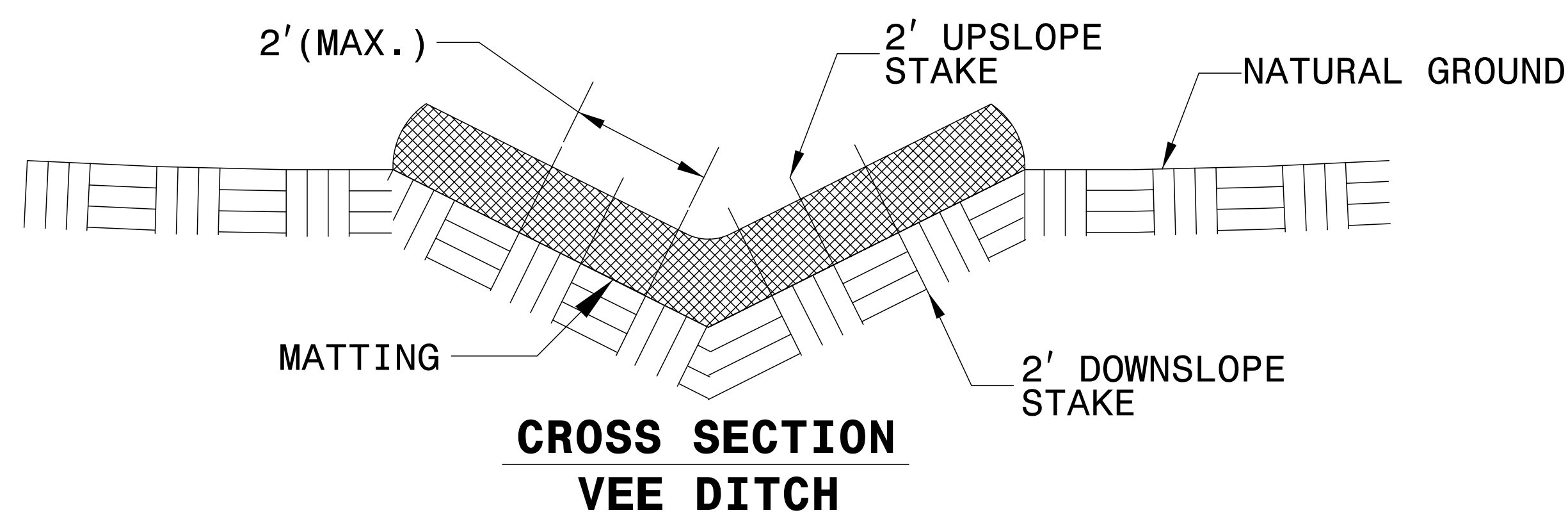
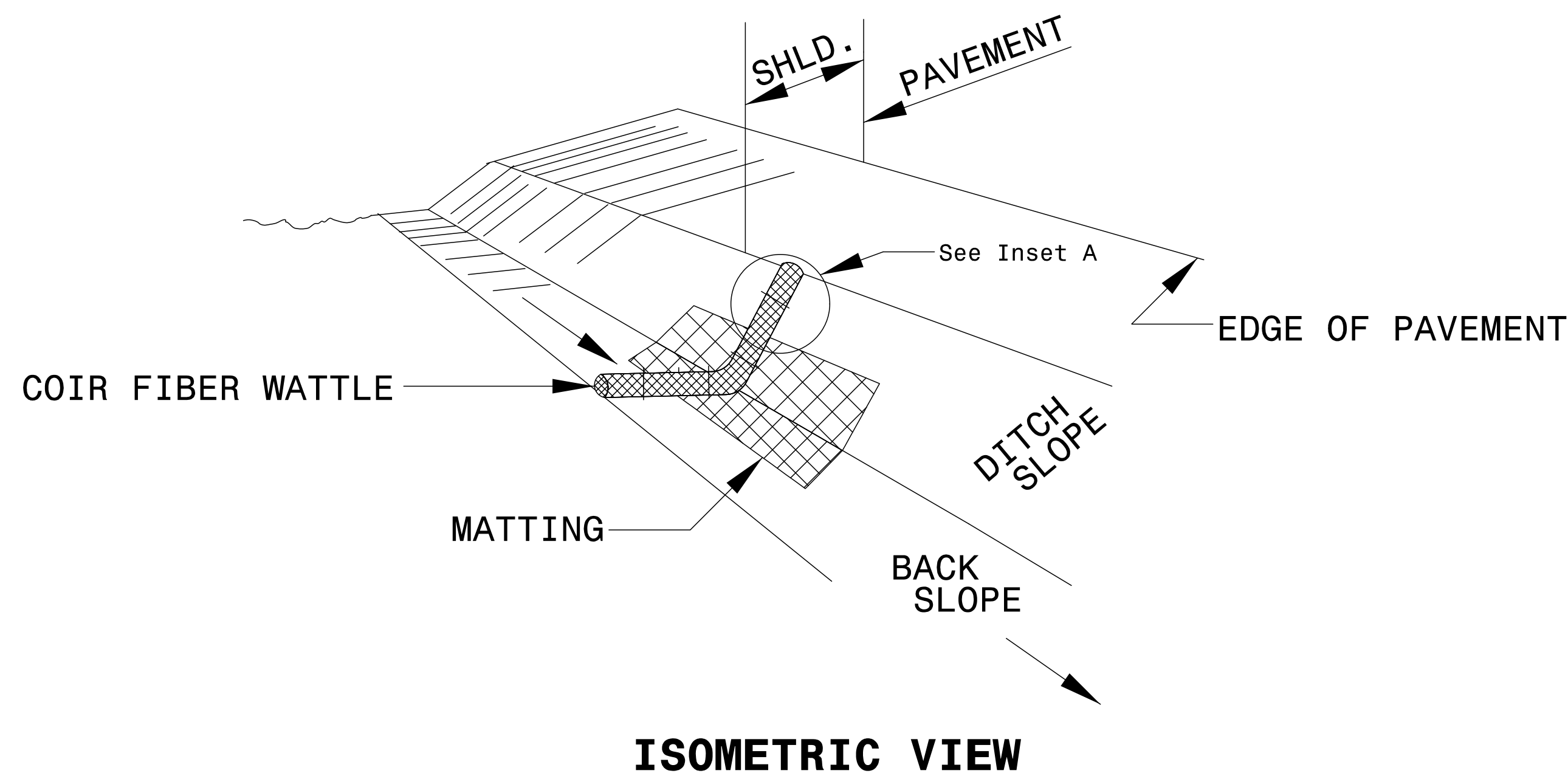
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

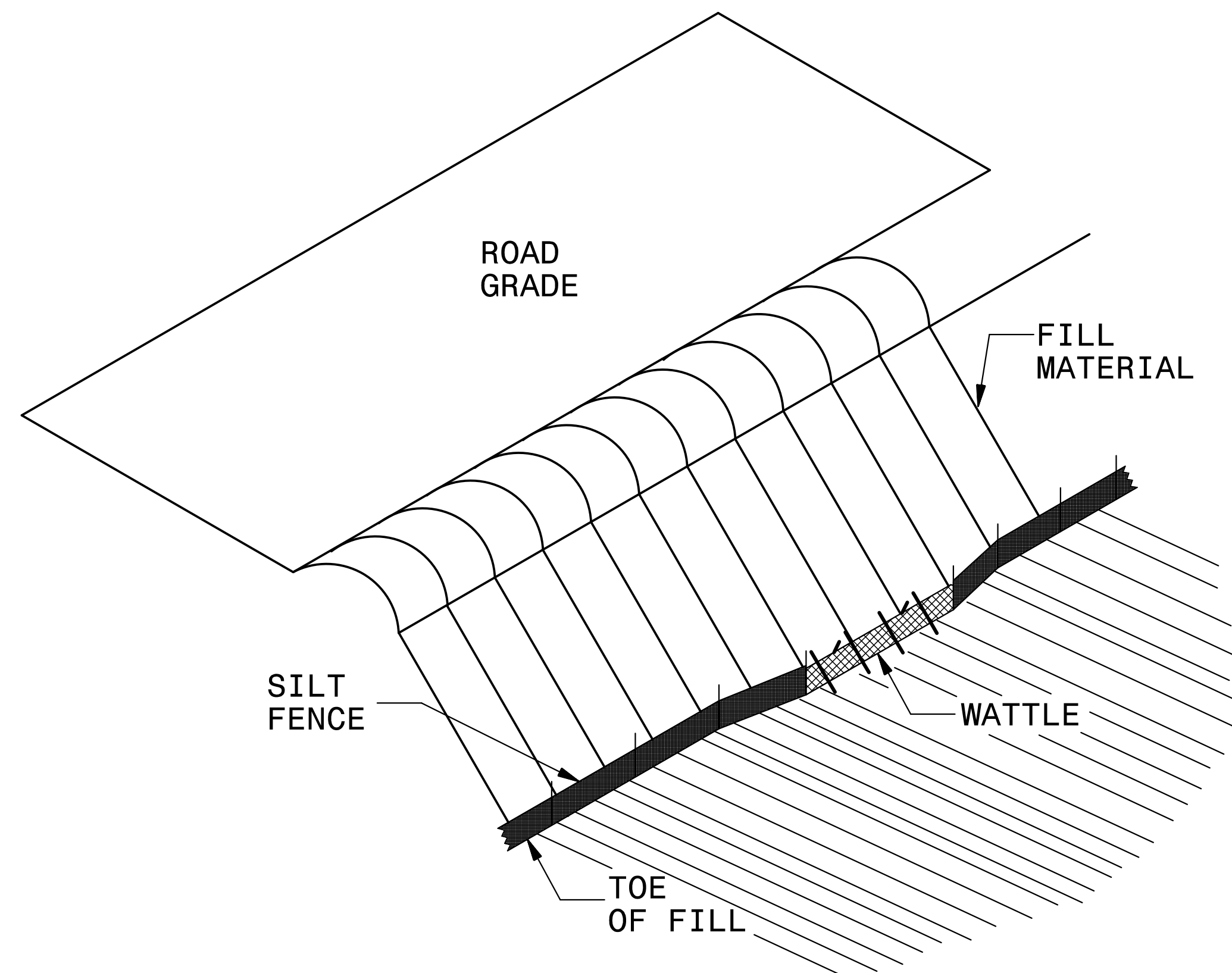
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



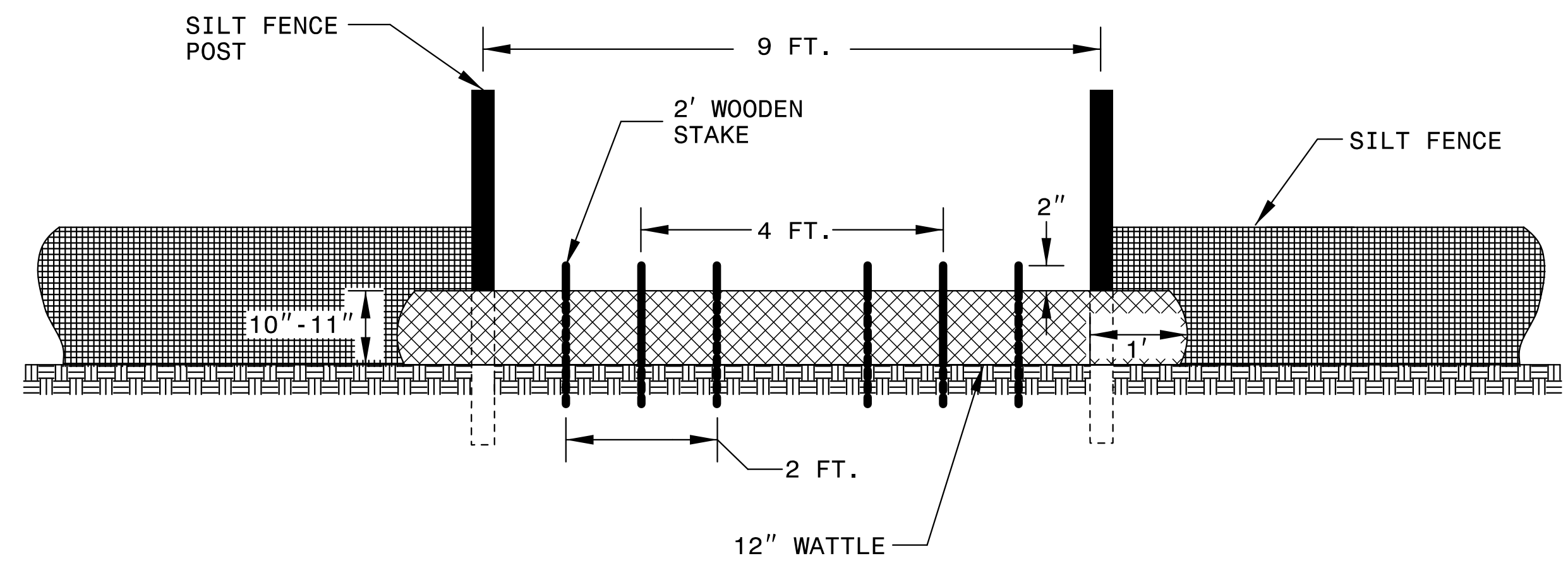
3:54:53 PM 3/15/24 membroke_EC_RDY_Details.dgn USER:NAME\$

| | | | |
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| PROJECT REFERENCE NO. | | SHEET NO. | |
| P-4900B | | EC-2A | |
| RW SHEET NO. | | | |
| RAILROAD DESIGN ENGINEER | | HYDRAULICS ENGINEER | |

SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW

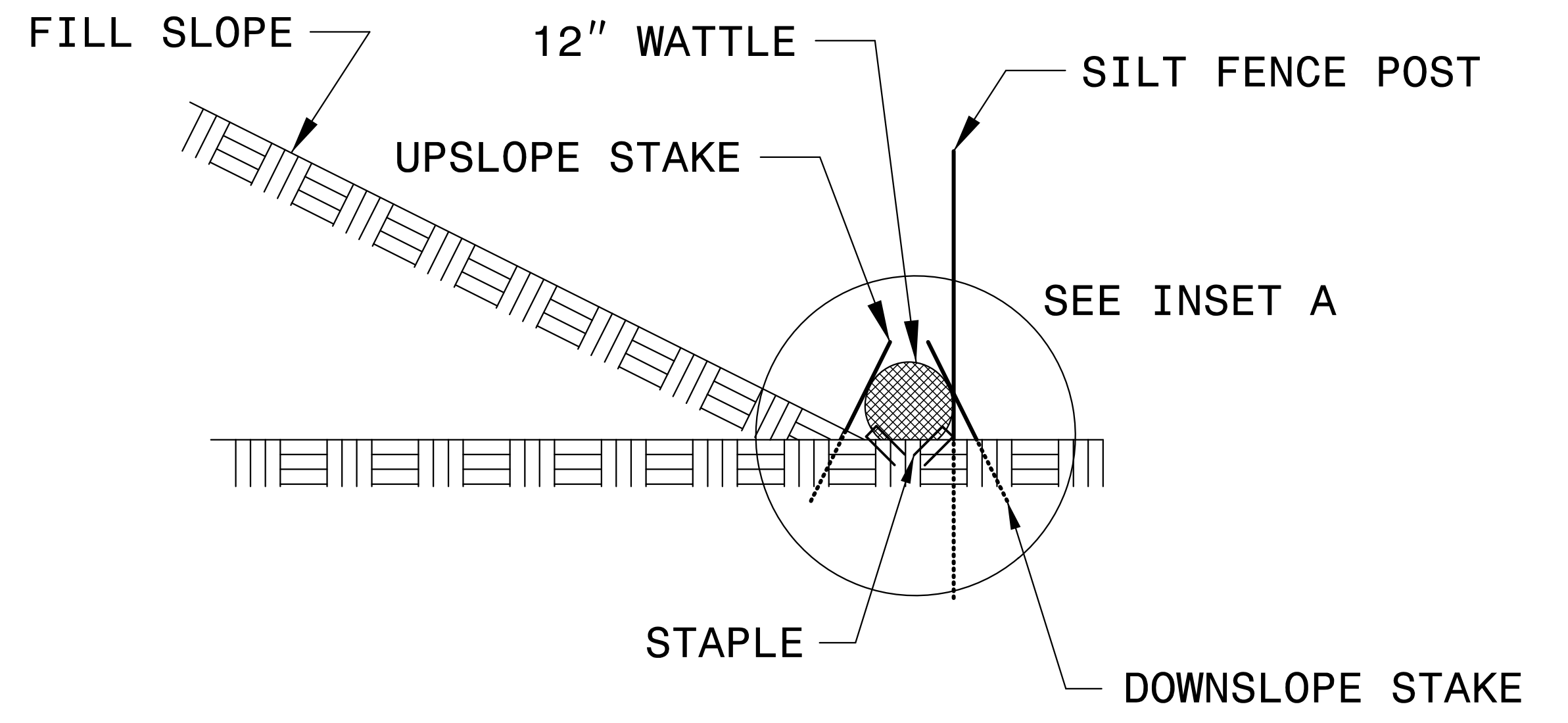
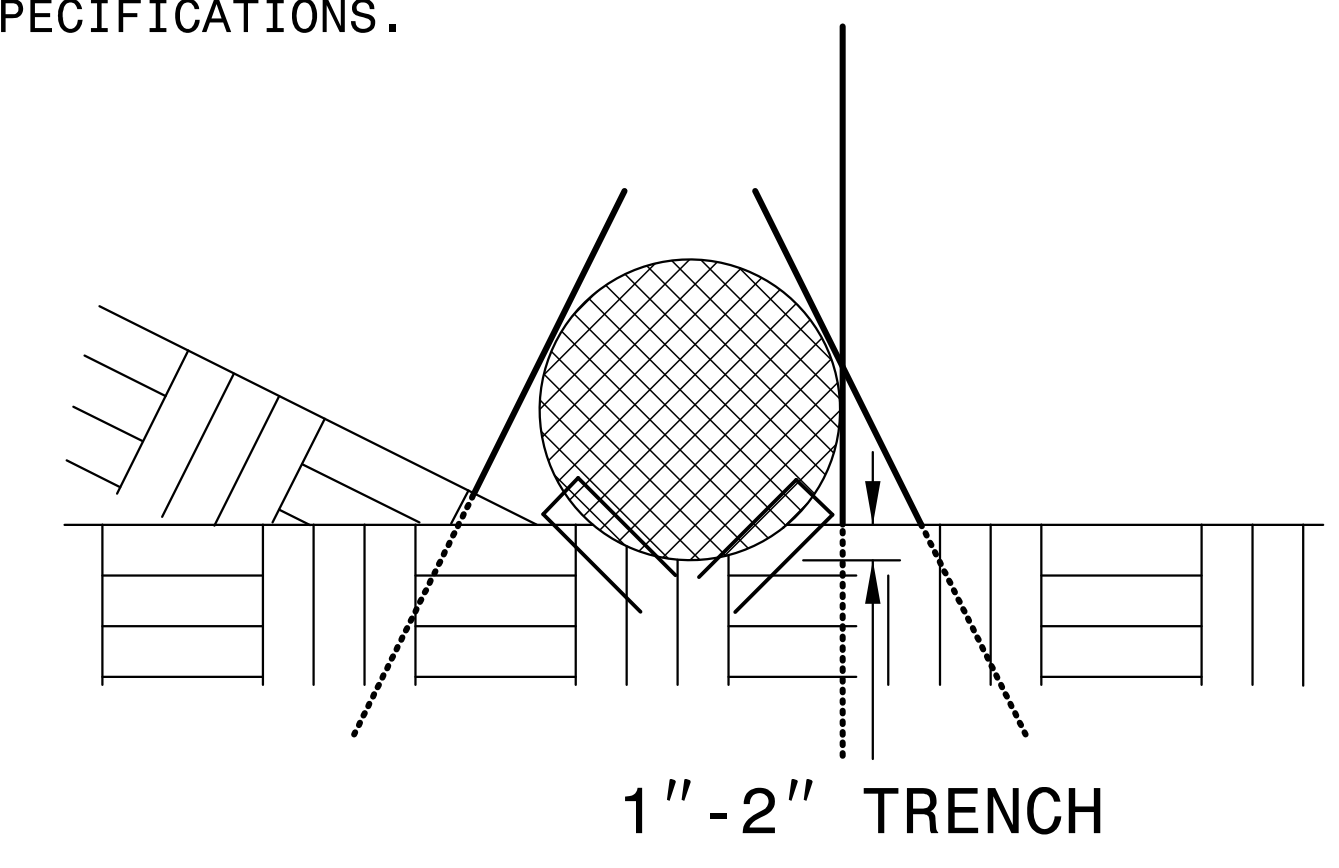


VIEW FROM SLOPE

NOTES:

- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
- 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.
- WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.
- INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

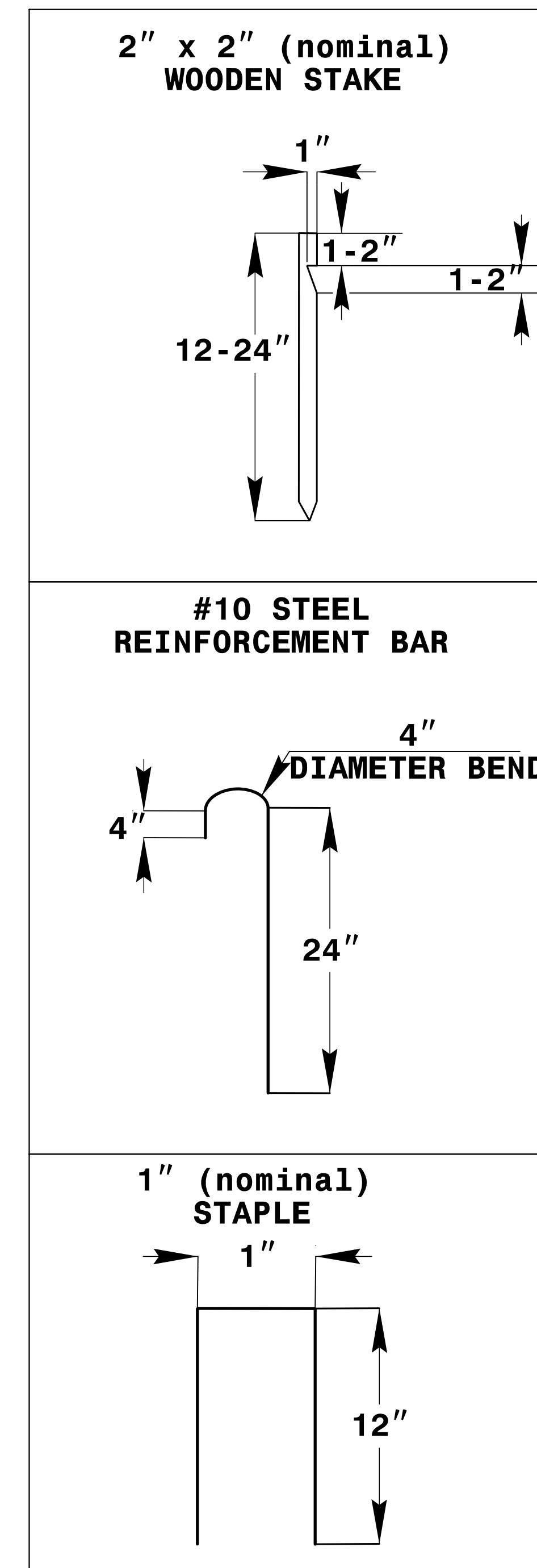
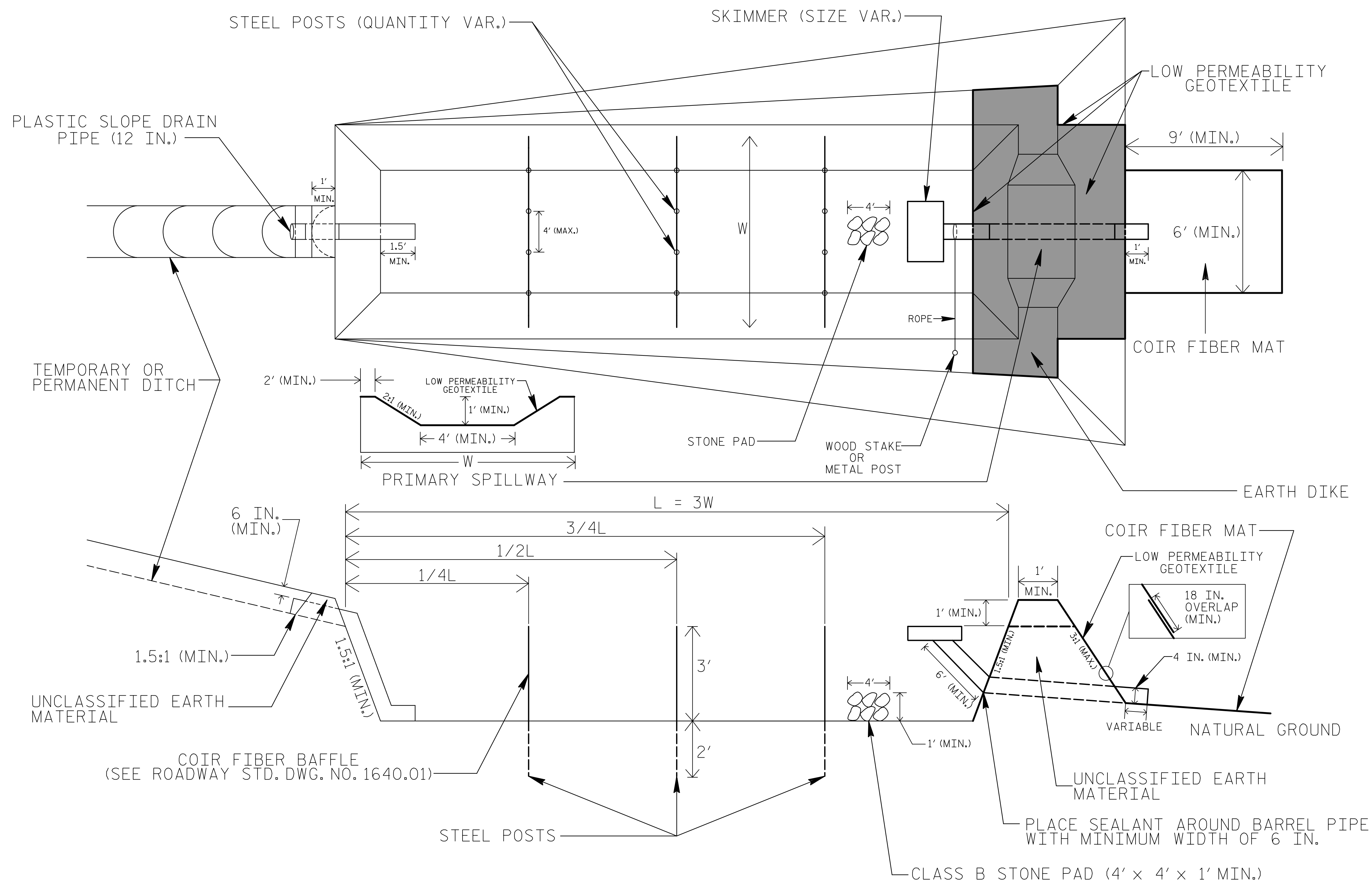
INSET A



SIDE VIEW

| | |
|----------------------------------|---------------------|
| PROJECT REFERENCE NO. P-4900B | SHEET NO. EC-2B |
| RW SHEET NO. | |
| RAILROAD DESIGN ENGINEER | HYDRAULICS ENGINEER |

SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.4$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

REVISIONS

3:54:18 PM 3/15/24 membroke_EC_RDY_Details.dgn

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

| | | | |
|--------------------------|--|---------------------|--|
| PROJECT REFERENCE NO. | | SHEET NO. | |
| P-4900B | | EC-3A | |
| RW SHEET NO. | | | |
| RAILROAD DESIGN ENGINEER | | HYDRAULICS ENGINEER | |

SOIL STABILIZATION TIMEFRAMES

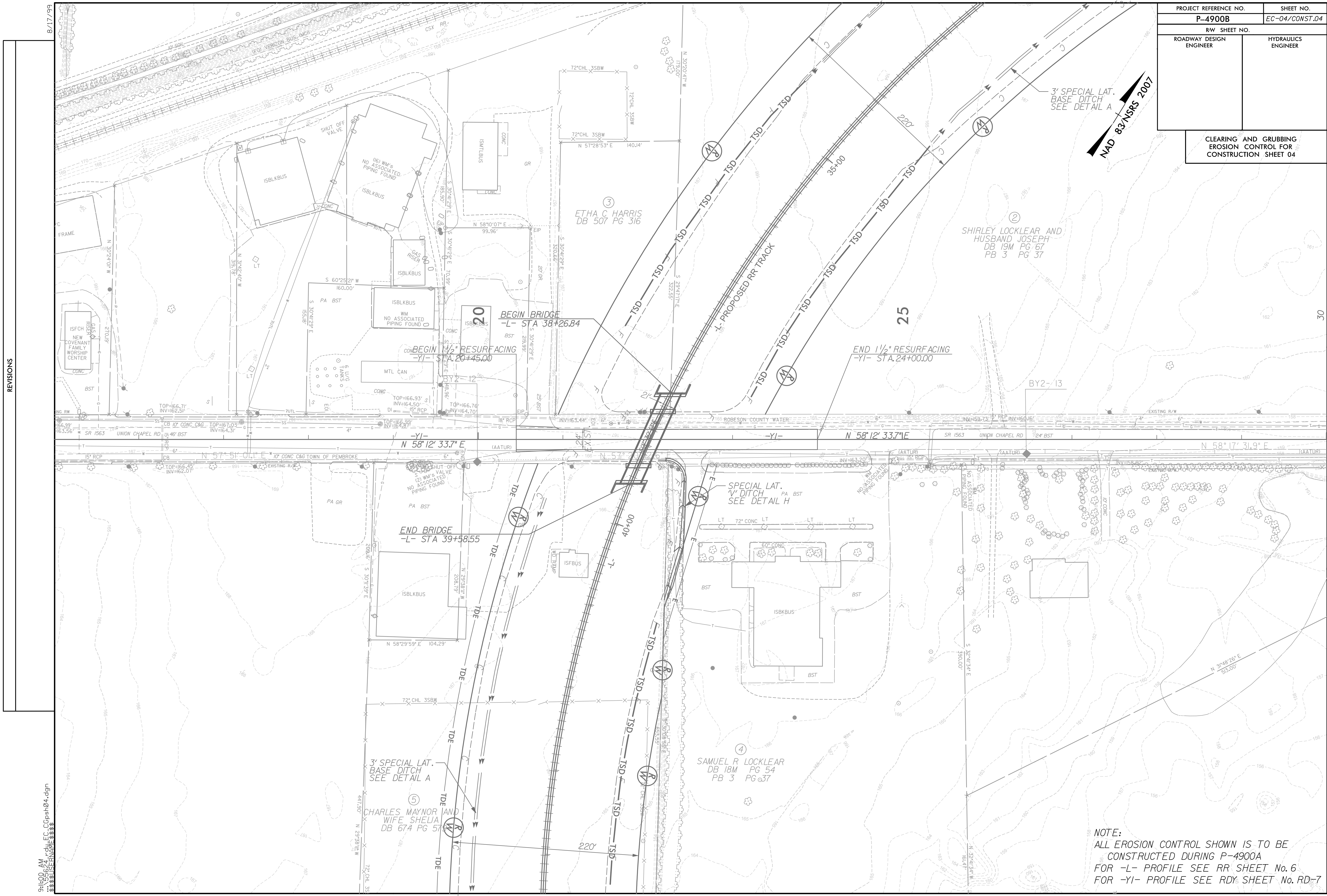
| <i>SITE DESCRIPTION</i> | <i>STABILIZATION TIME</i> | <i>TIMEFRAME EXCEPTIONS</i> |
|--|---------------------------|--|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE |
| HIGH QUALITY WATER (HQW) ZONES | 7 DAYS | NONE |
| SLOPES STEEPER THAN 3:1 | 7 DAYS | IF SLOPES ARE 10' OR LESS IN 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. |

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| P-4900B | EC-04/CONST.04 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

3' SPECIAL LAT.
BASE DITCH
SEE DETAIL A

NAD 83 NSRS 2007



REVISIONS

9:11:00 AM
1/15/24
rdh_EC_CGesh04.dgn

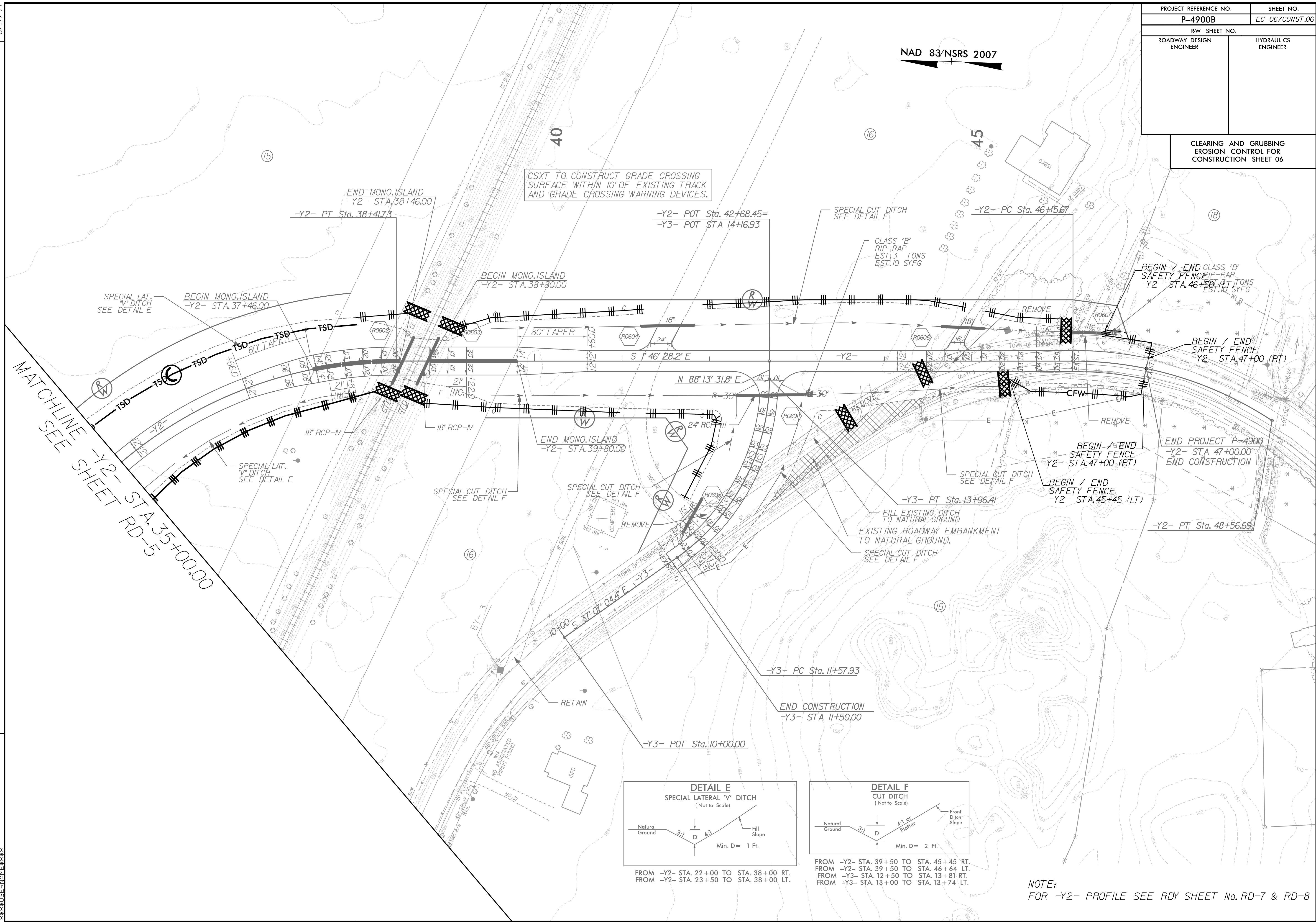
NOTE:
ALL EROSION CONTROL SHOWN IS TO BE
CONSTRUCTED DURING P-4900A
FOR -L- PROFILE SEE RR SHEET No. 6
FOR -YI- PROFILE SEE RDY SHEET No. RD-7

8/17/99

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| P-4900B | EC-06/CONST.06 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

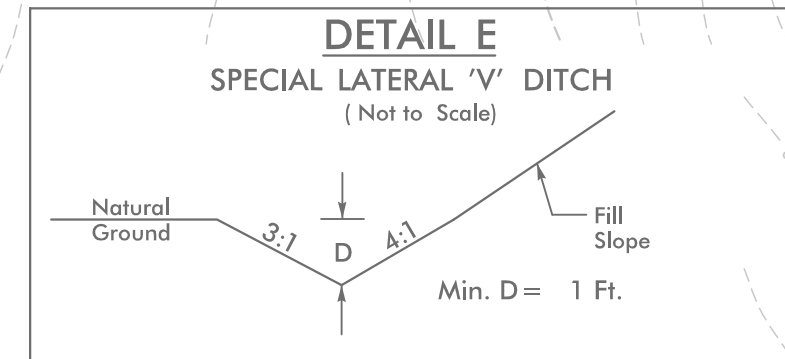
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06

NAD 83/NSRS 2007

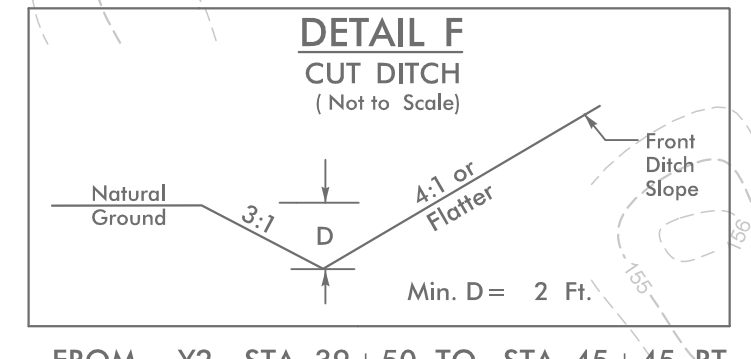


MATCHLINE -Y2- STA. 35+00.00
SEE SHEET RD-5

REVISIONS



FROM -Y2- STA. 22+00 TO STA. 38+00 RT.
FROM -Y2- STA. 23+50 TO STA. 38+00 LT.

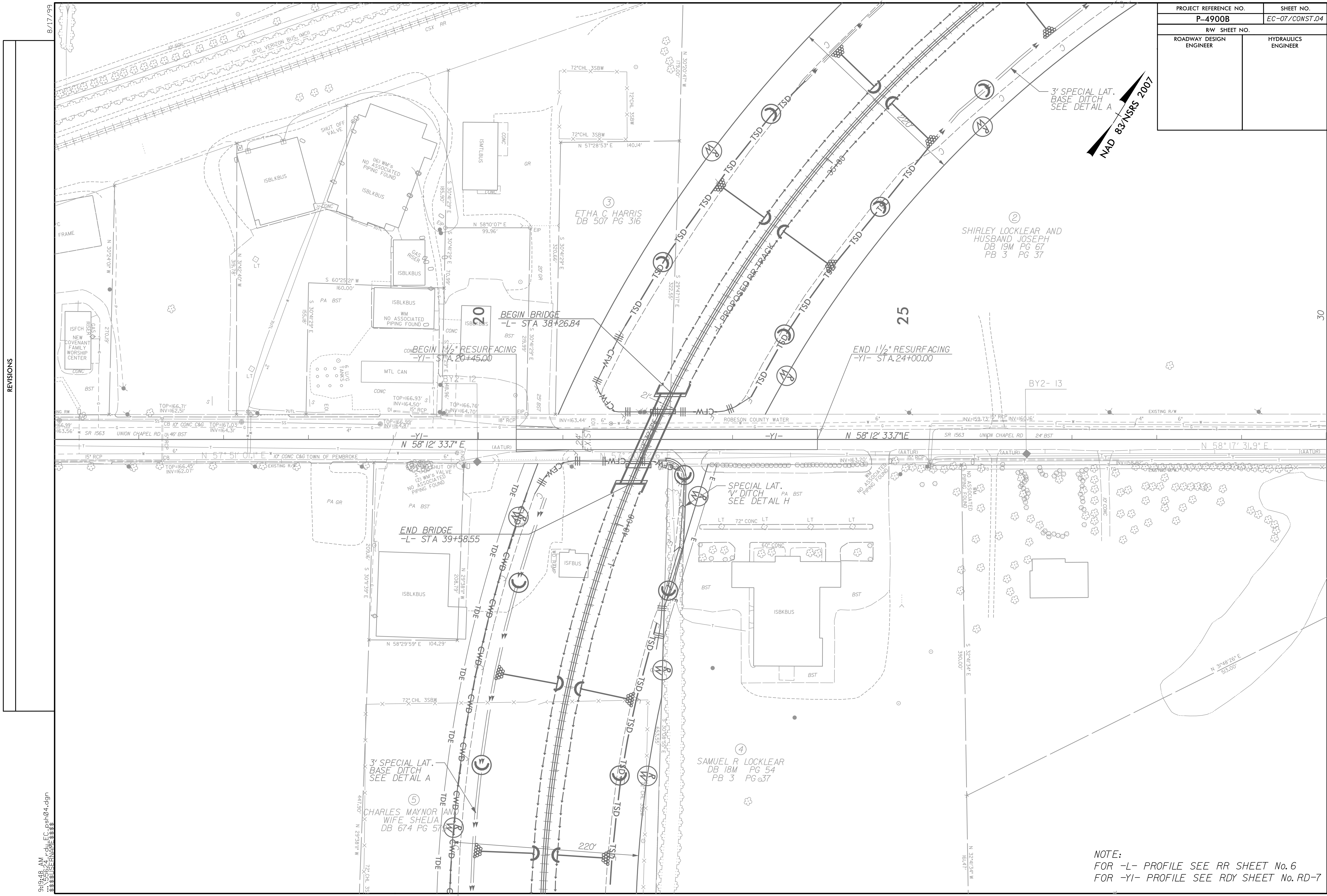
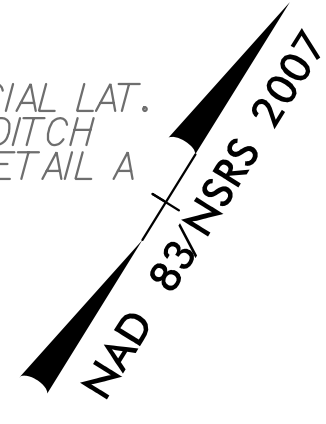


FROM -Y2- STA. 39+50 TO STA. 45+45 RT.
FROM -Y2- STA. 39+50 TO STA. 46+64 LT.
FROM -Y3- STA. 12+50 TO STA. 13+81 RT.
FROM -Y3- STA. 13+00 TO STA. 13+74 LT.

NOTE:
FOR -Y2- PROFILE SEE RDY SHEET No. RD-7 & RD-8

9/15/09 AM rdh_EC_CGesh06.dgn
11:56:24 AM
11/11/2009 11:56:24 AM

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| P-4900B | EC-07/CONST.04 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



REVISIONS

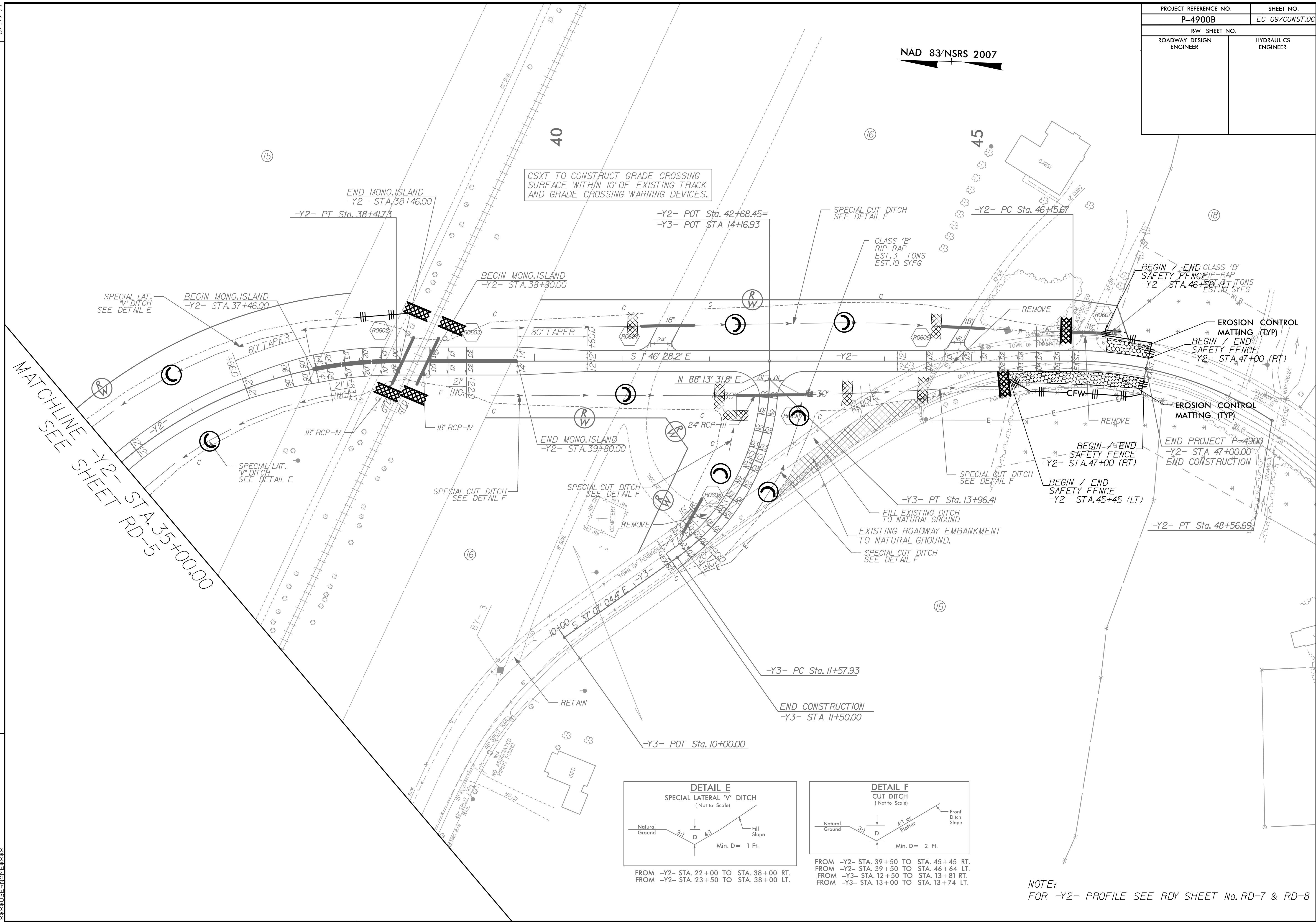
9:19:48 AM
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 11/11/2010 10:58:33 AM

NOTE:
 FOR -L- PROFILE SEE RR SHEET No. 6
 FOR -YI- PROFILE SEE RDY SHEET No. RD-7

8/17/99

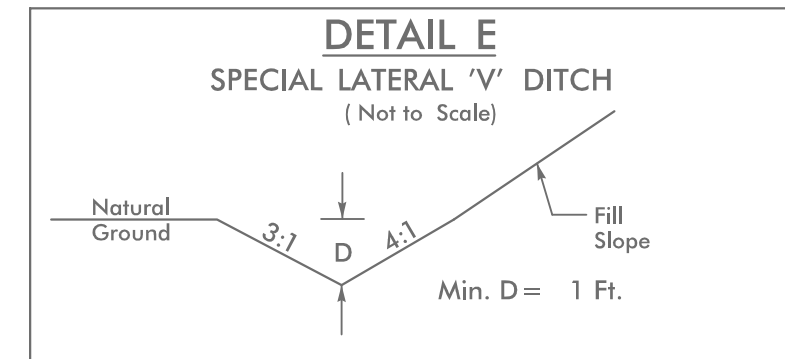
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| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

NAD 83/NSRS 2007

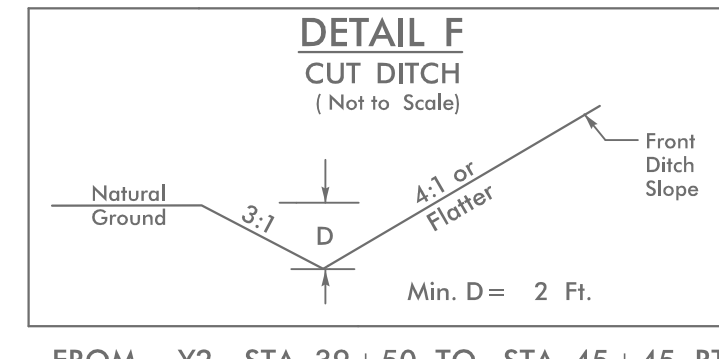


MATCHLINE -Y2- STA. 35+00.00
SEE SHEET RD-5

REVISIONS



FROM -Y2- STA. 22+00 TO STA. 38+00 RT.
FROM -Y2- STA. 23+50 TO STA. 38+00 LT.



FROM -Y2- STA. 39+50 TO STA. 45+45 RT.
FROM -Y2- STA. 39+50 TO STA. 46+64 LT.
FROM -Y3- STA. 12+50 TO STA. 13+81 RT.
FROM -Y3- STA. 13+00 TO STA. 13+74 LT.

NOTE:
FOR -Y2- PROFILE SEE RDY SHEET No. RD-7 & RD-8

9:25:31 AM
rdh_EC_psh06.dgn
11/11/2004 11:58:11 AM

8/23/99

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TIP NO. P-4900B

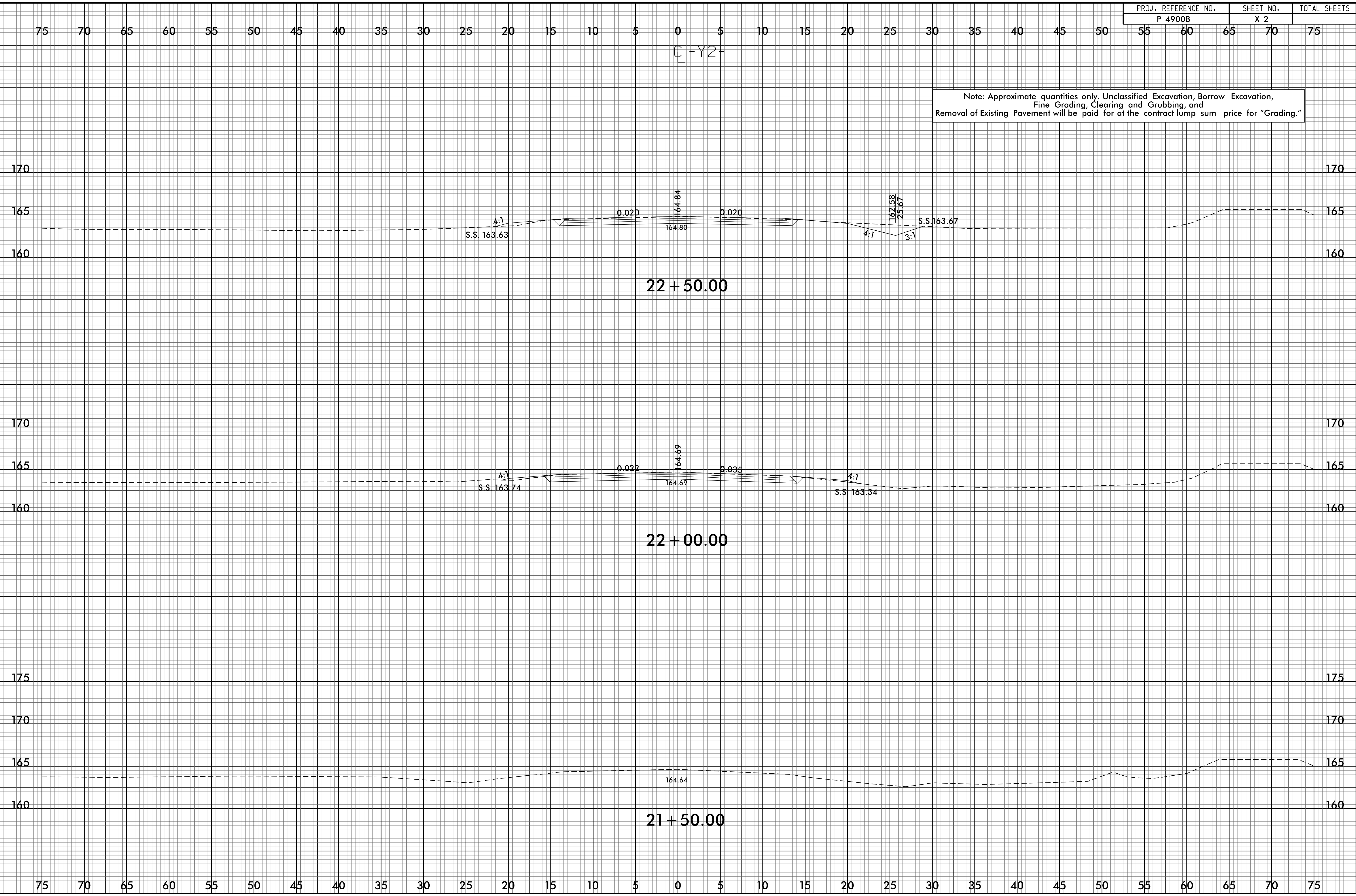
CROSS SECTION INDEX

| LOCATION | STATION TO STATION | SHEET NO. |
|----------|---|---------------------------------|
| -Y2- | EARTHWORK SUMMARY SHEET STA. 22+00.00 TO STA. 47+00.00 | X-1B |
| -Y3- | STA. 11+50.00 TO STA. 14+16.93 | X-2 THRU X-18 X-19 THRU X-20 |

28-SEP-2015 10:43
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02/03/98

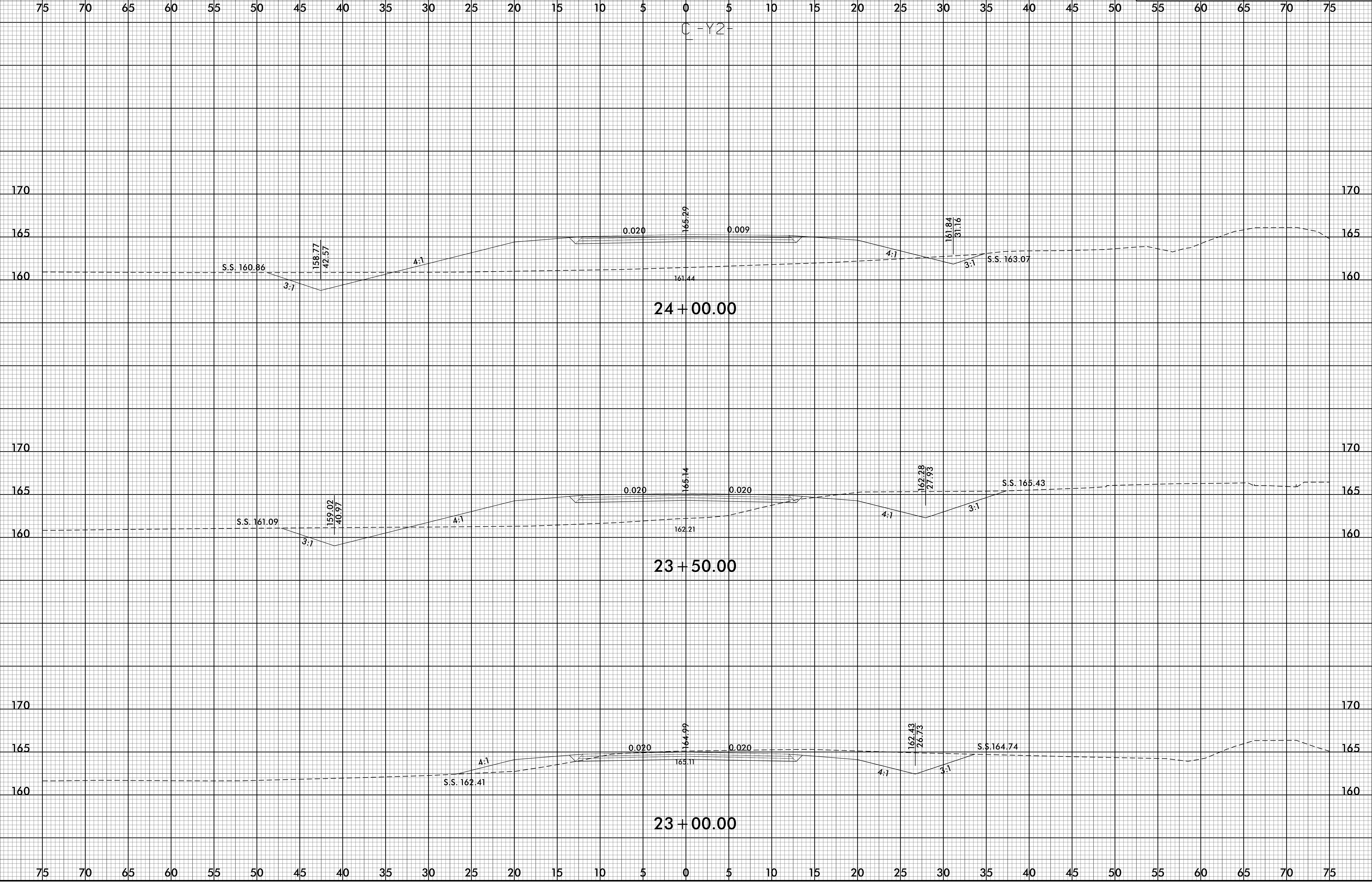
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02/03/98

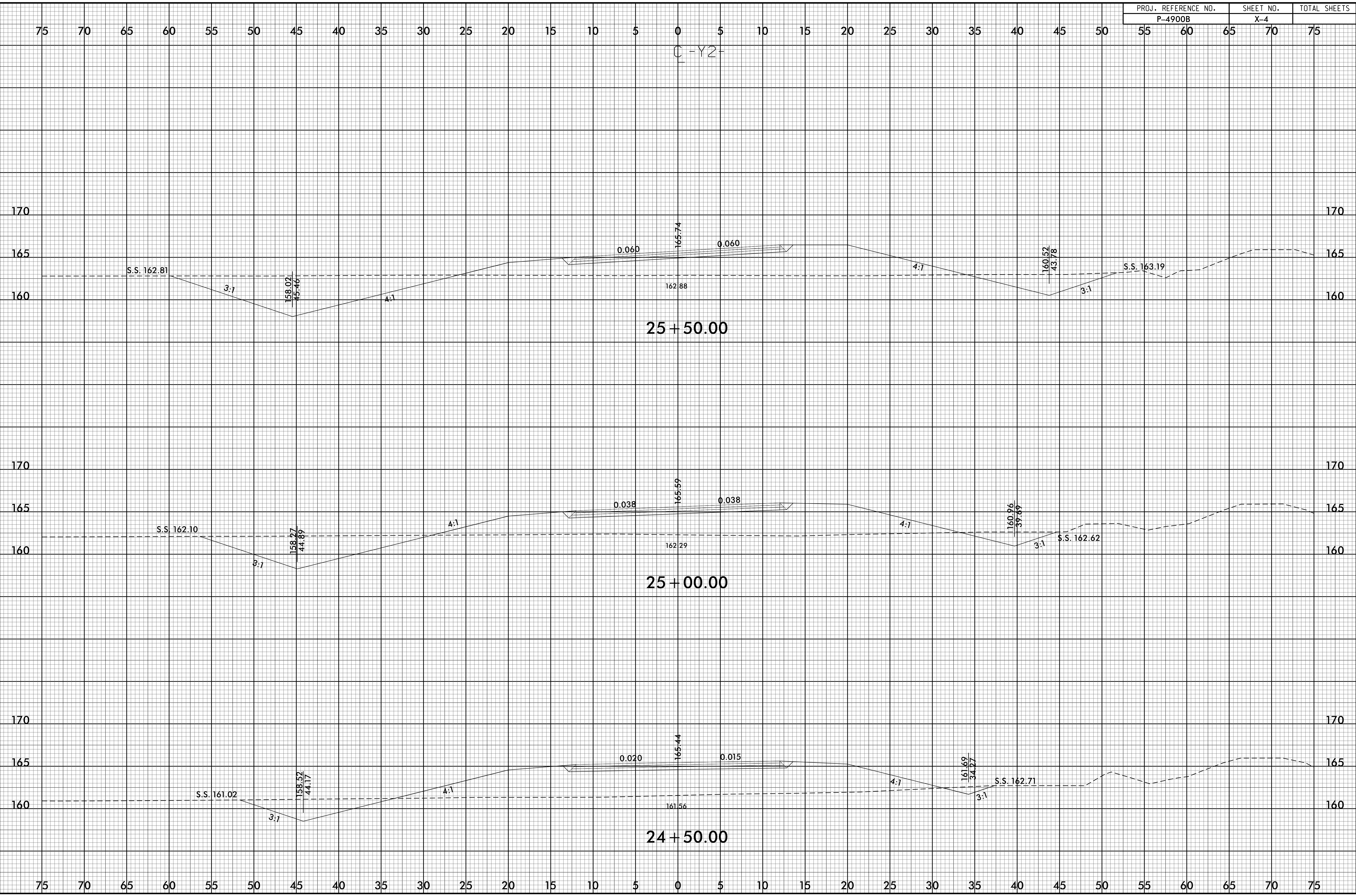
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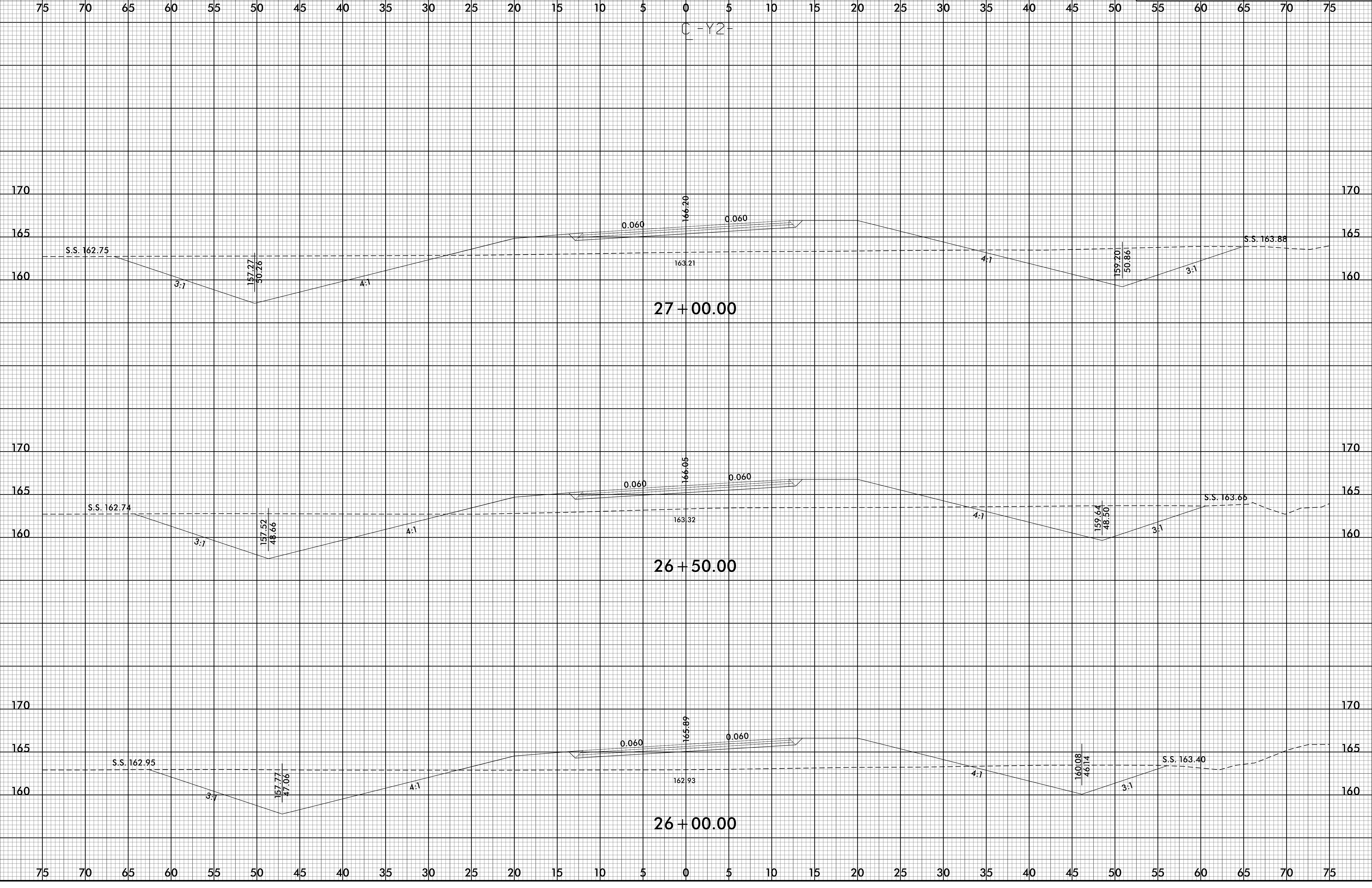
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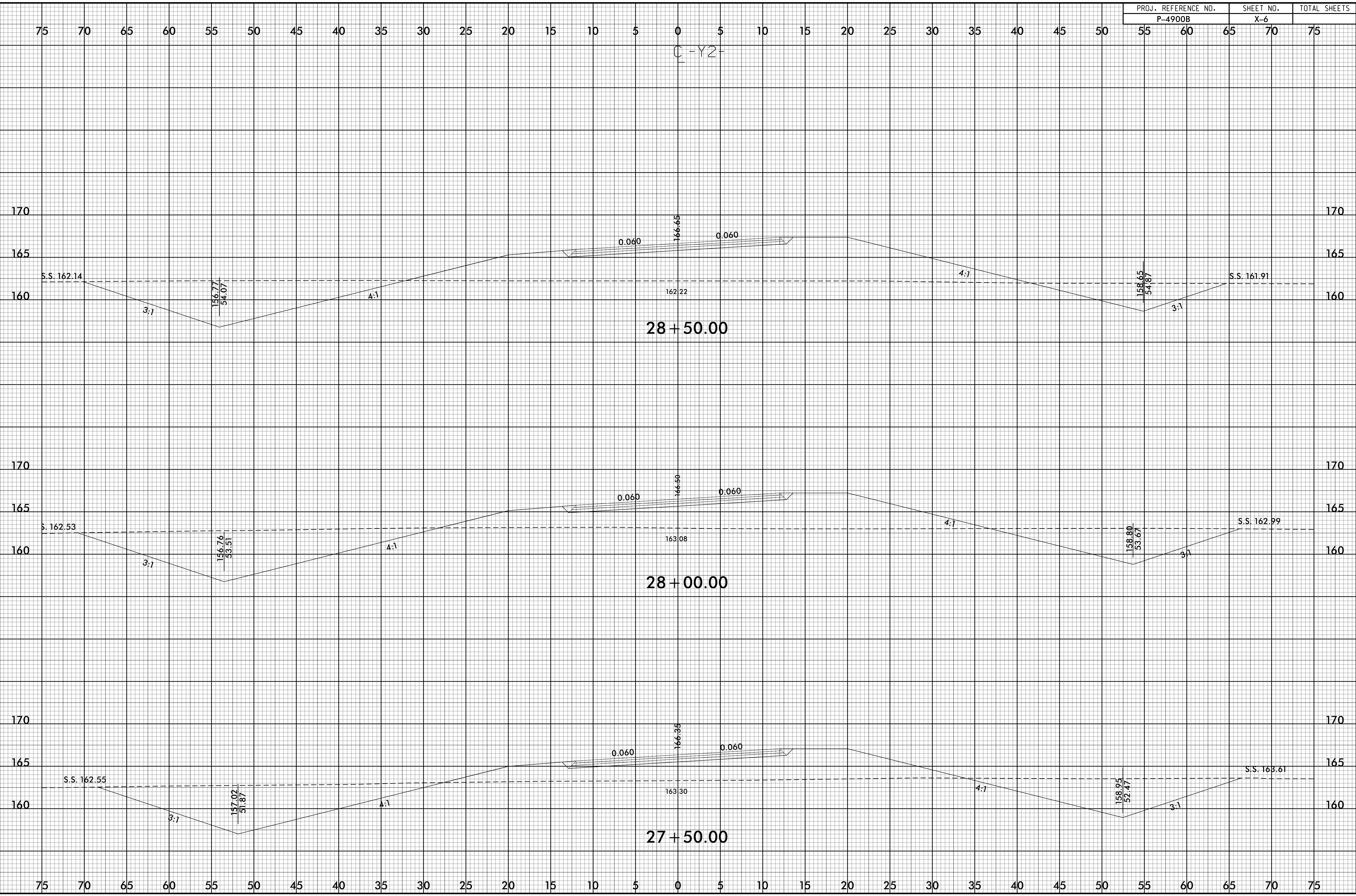
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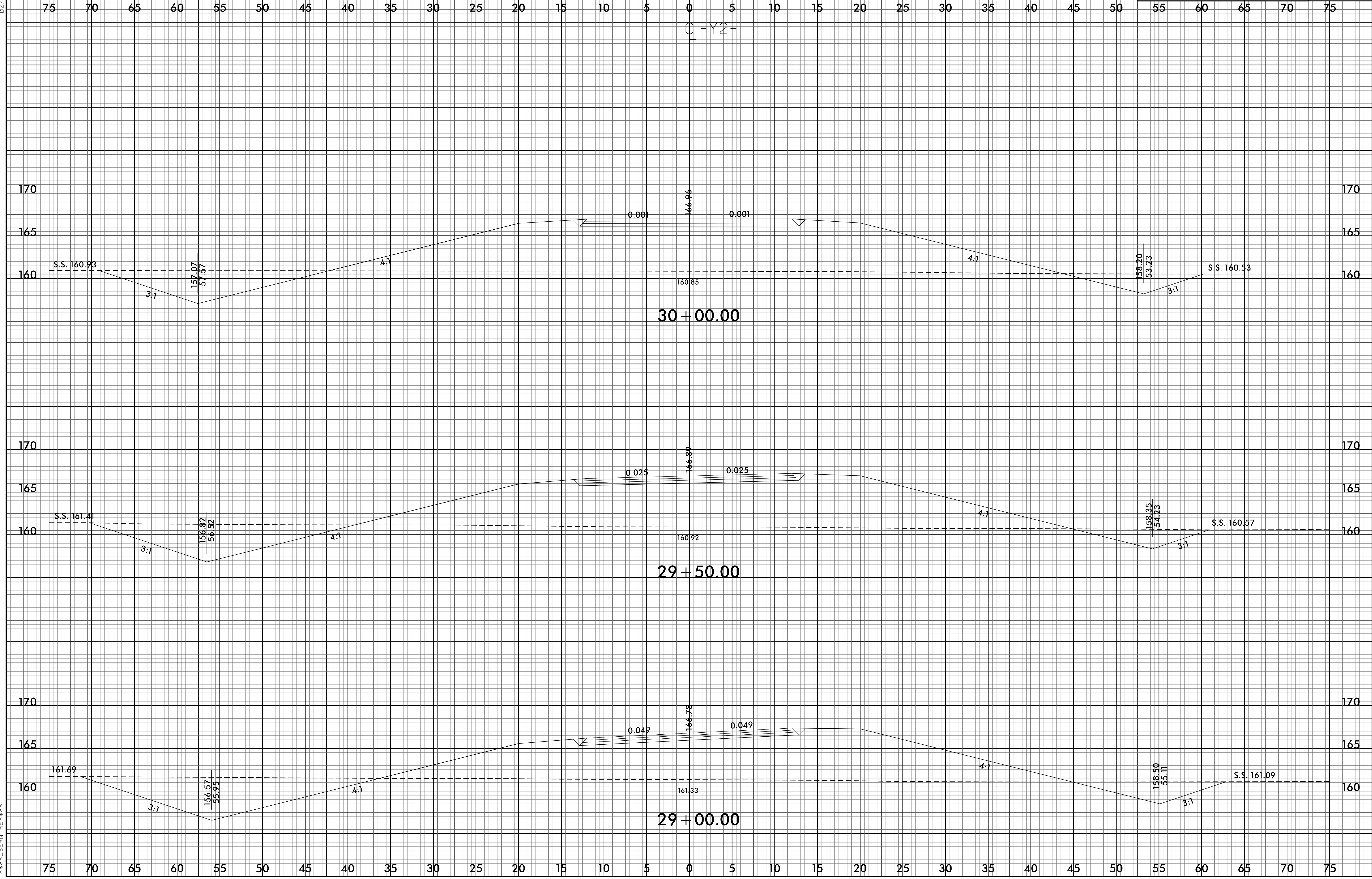
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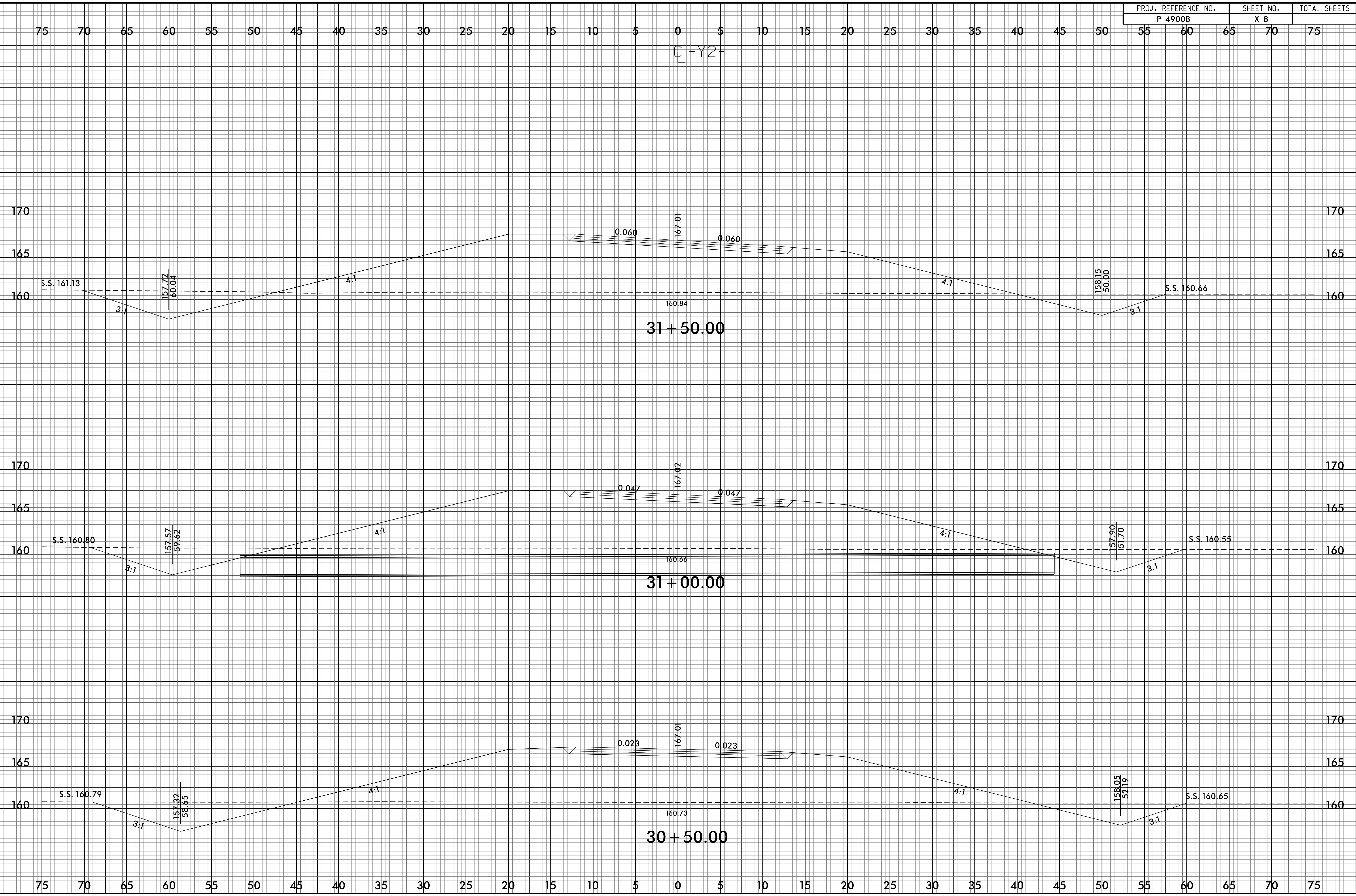
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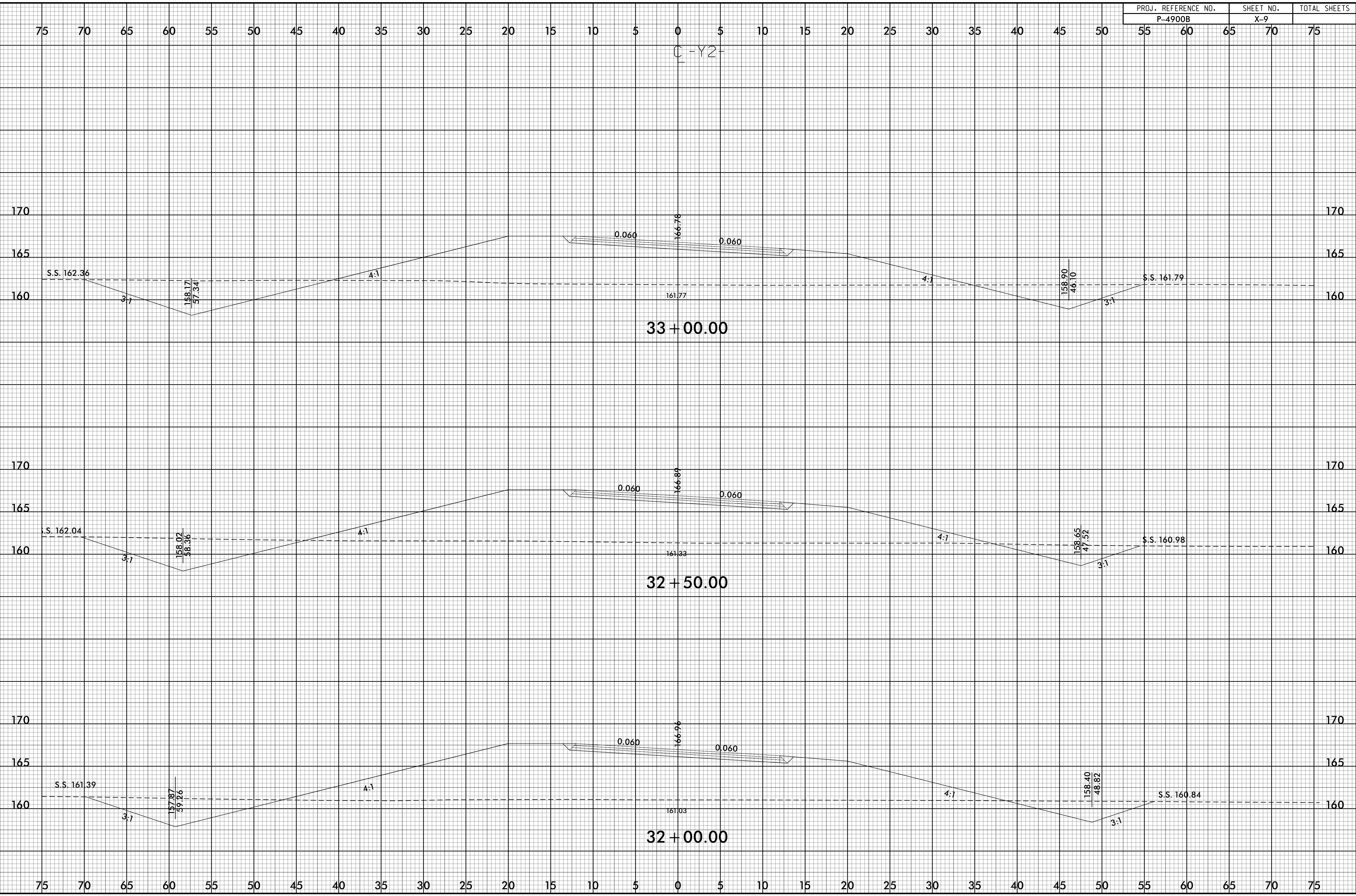
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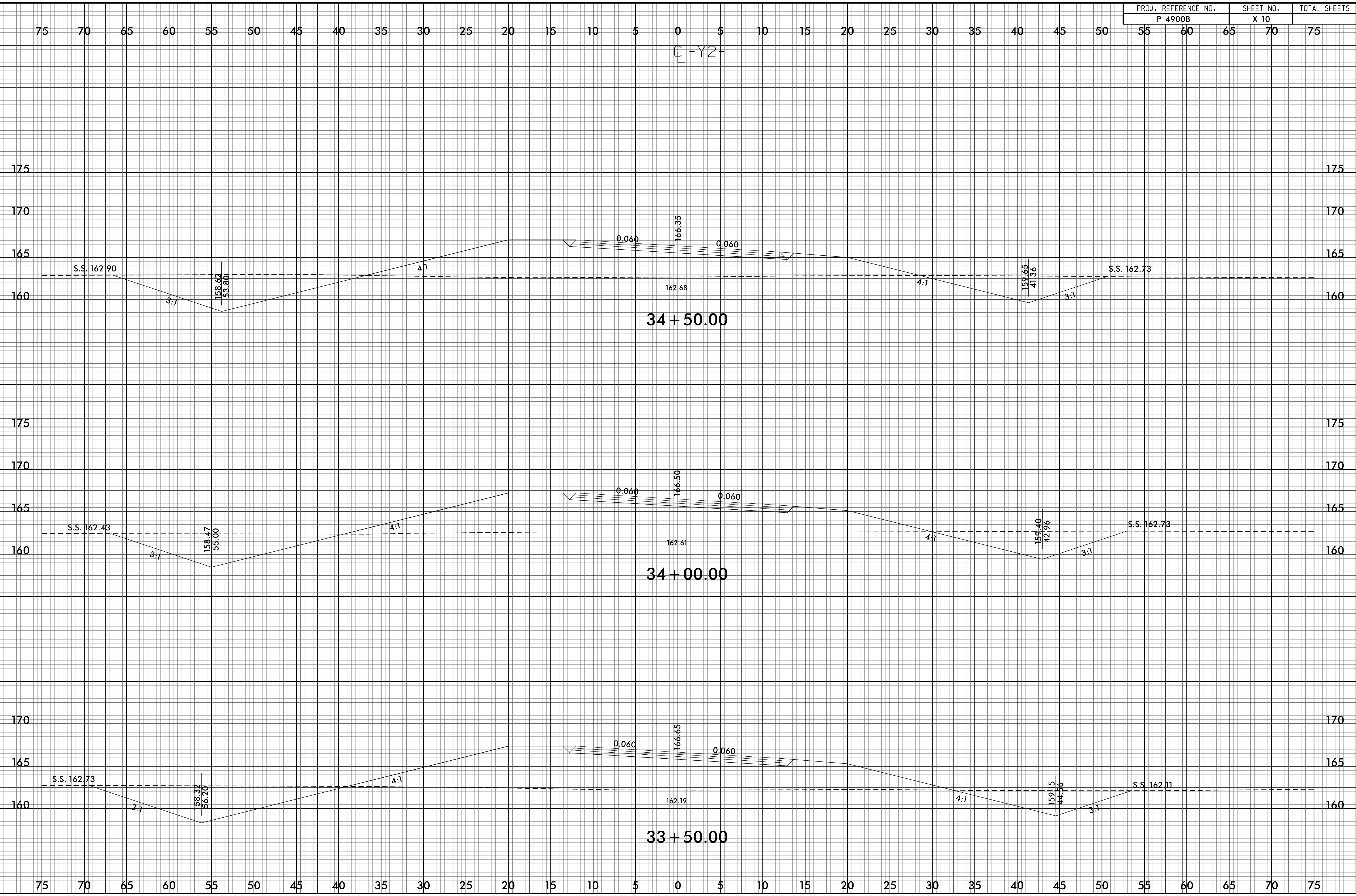
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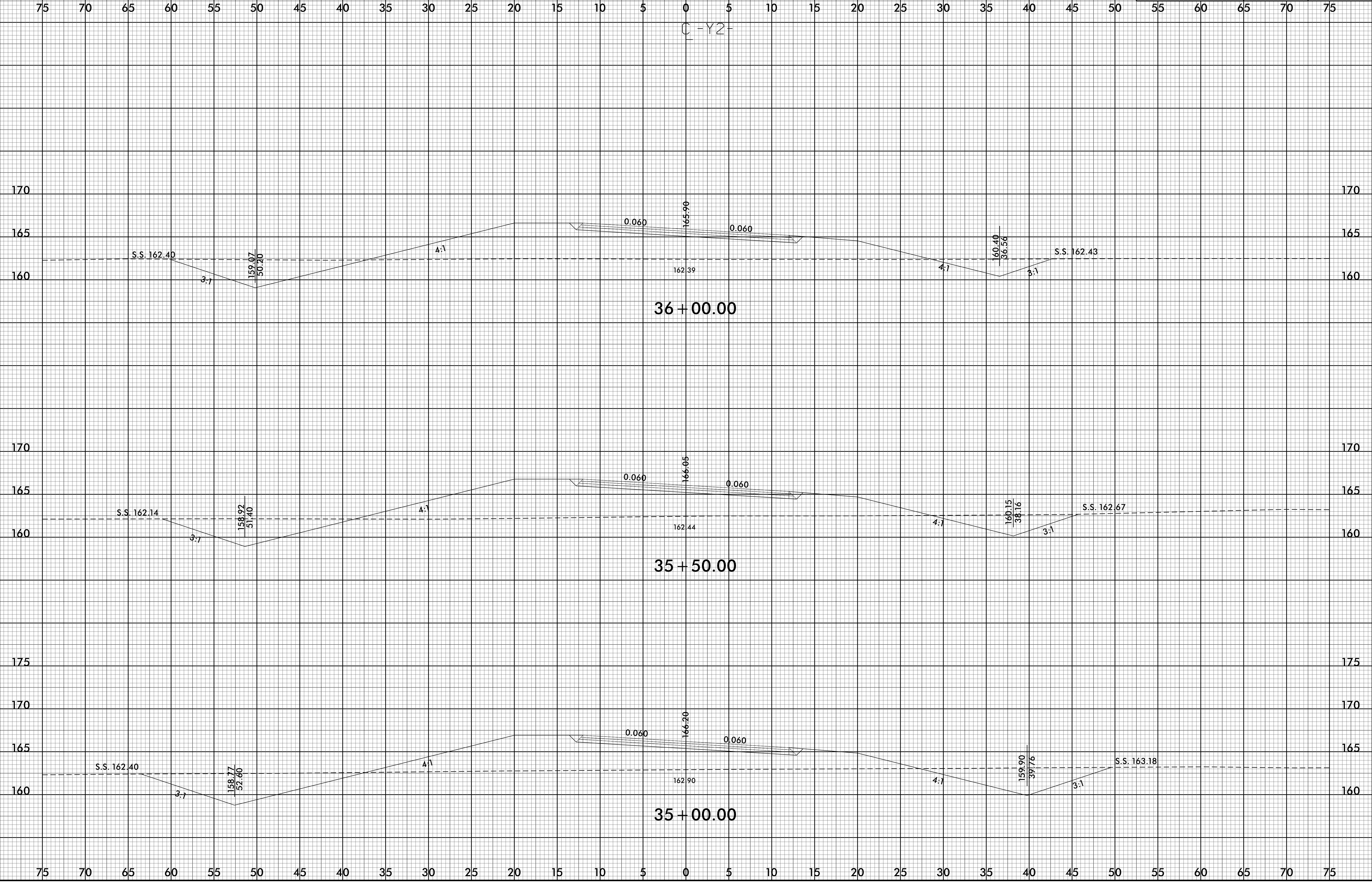
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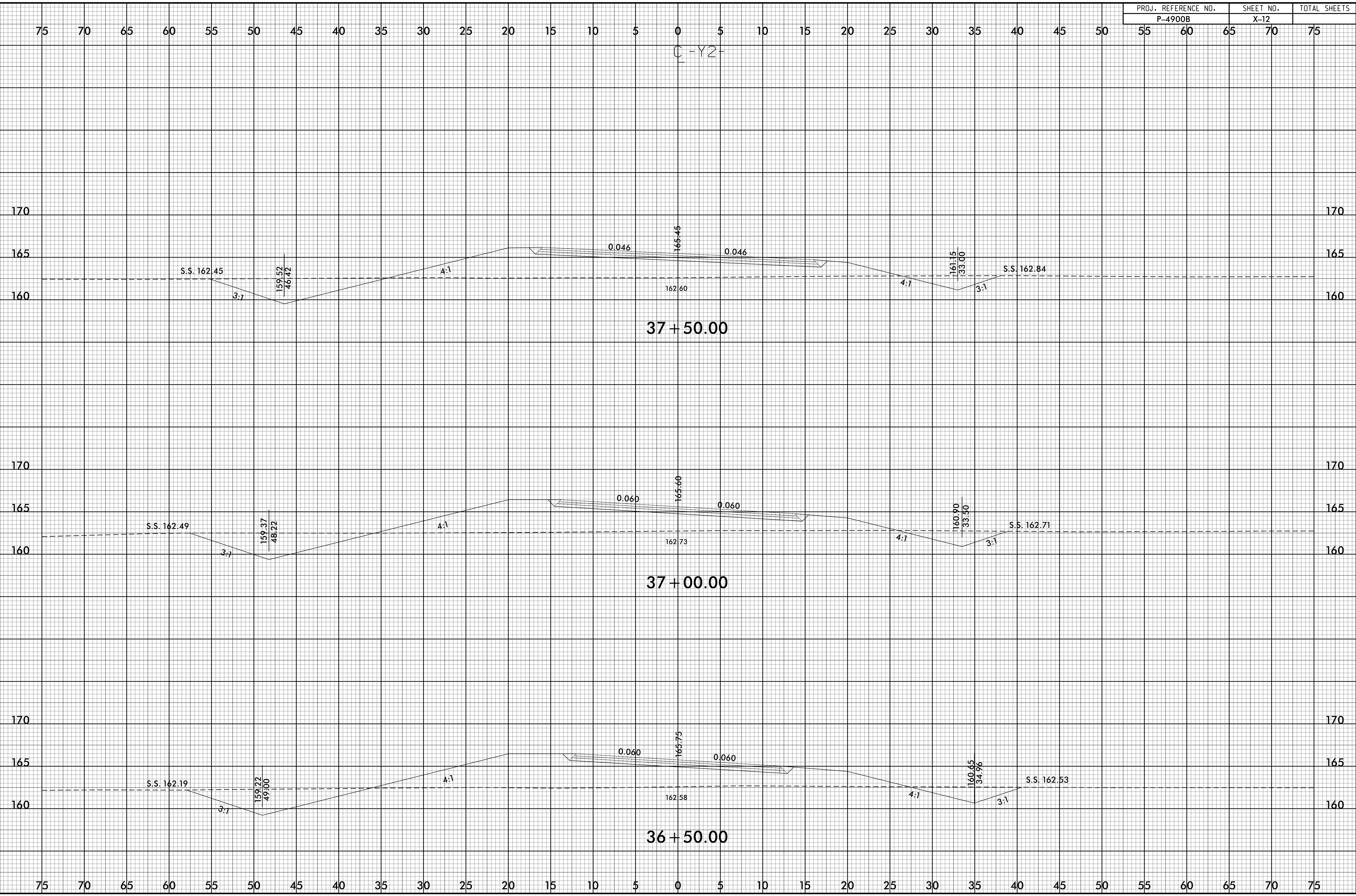
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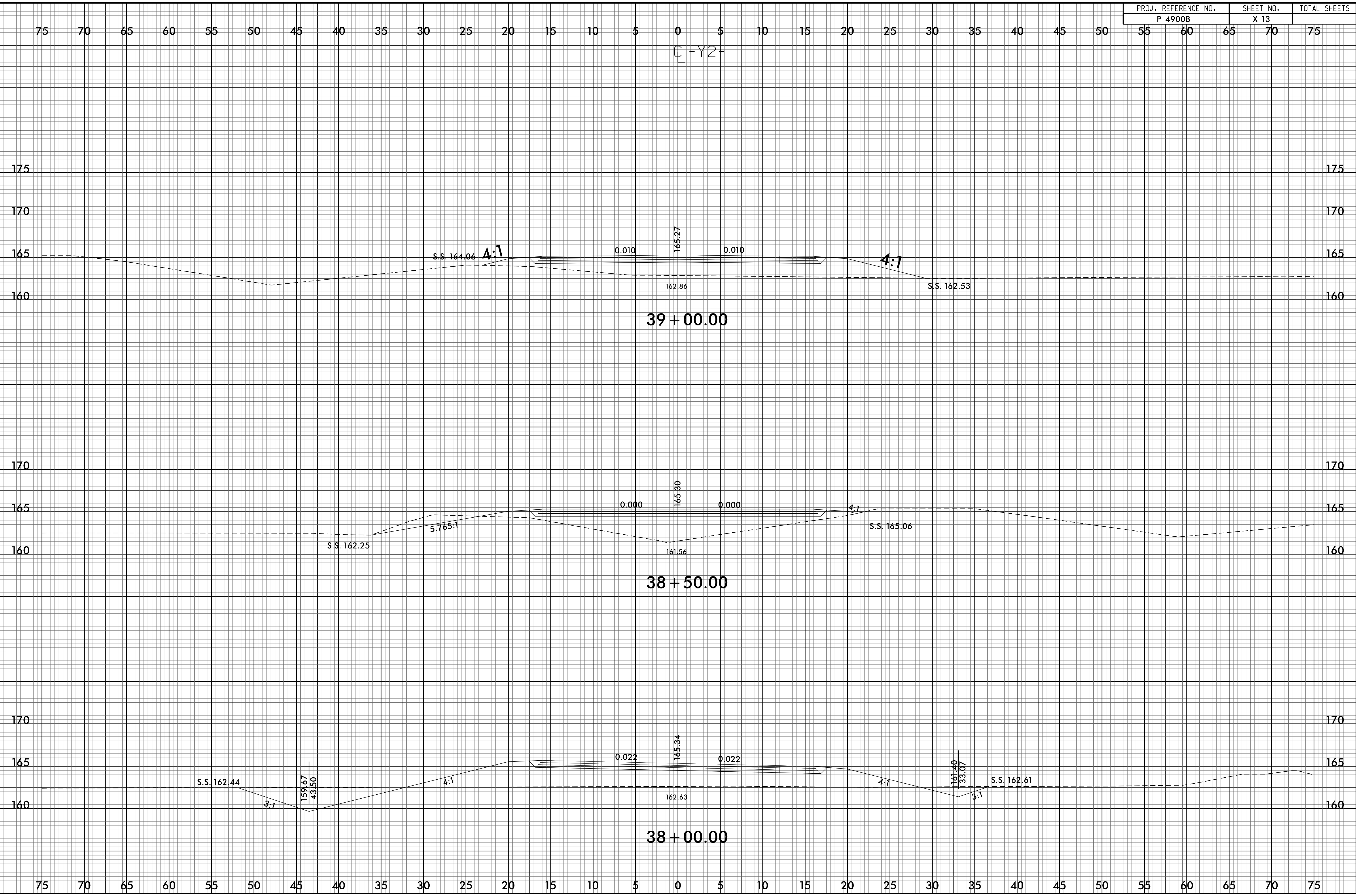
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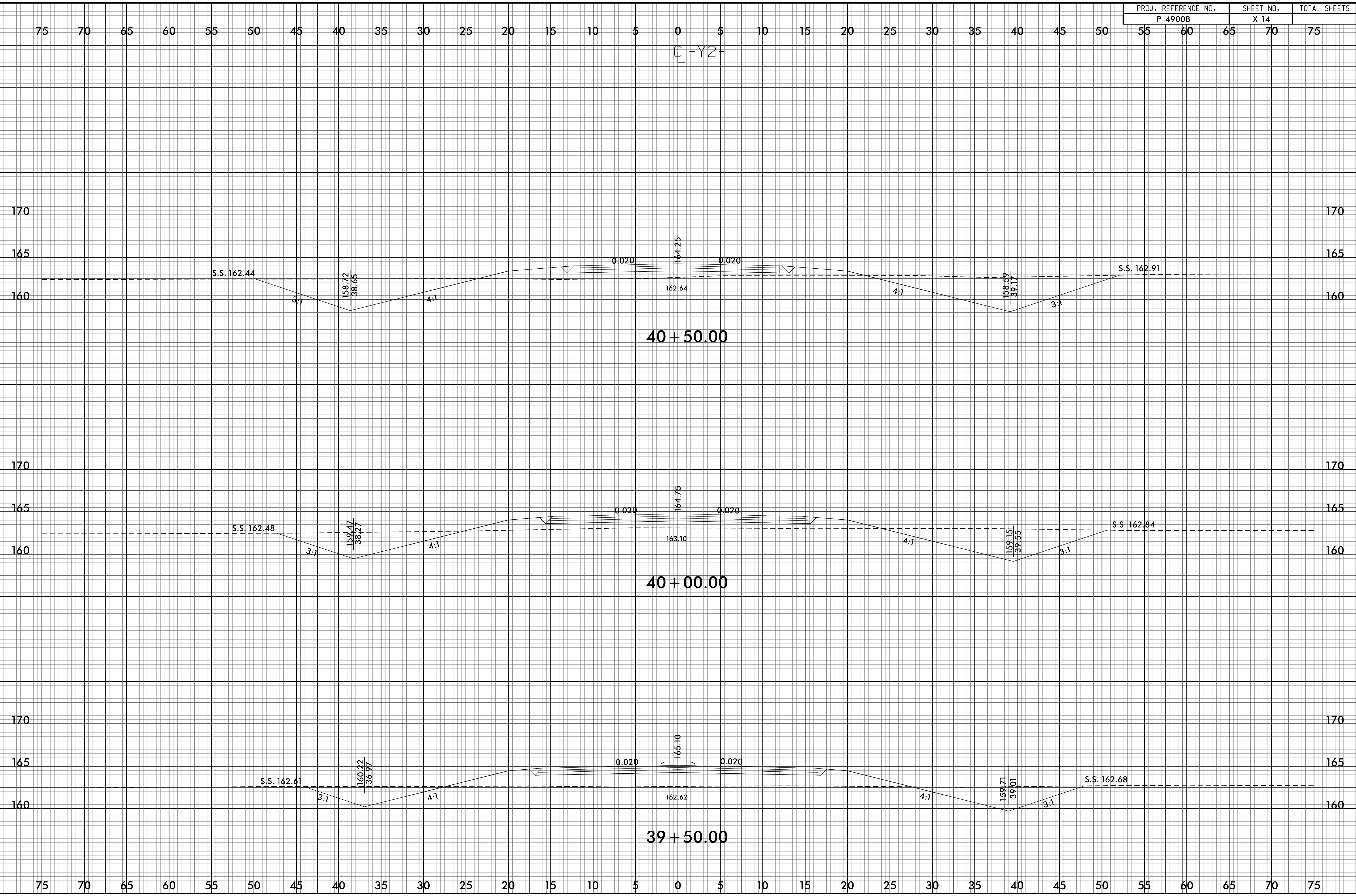
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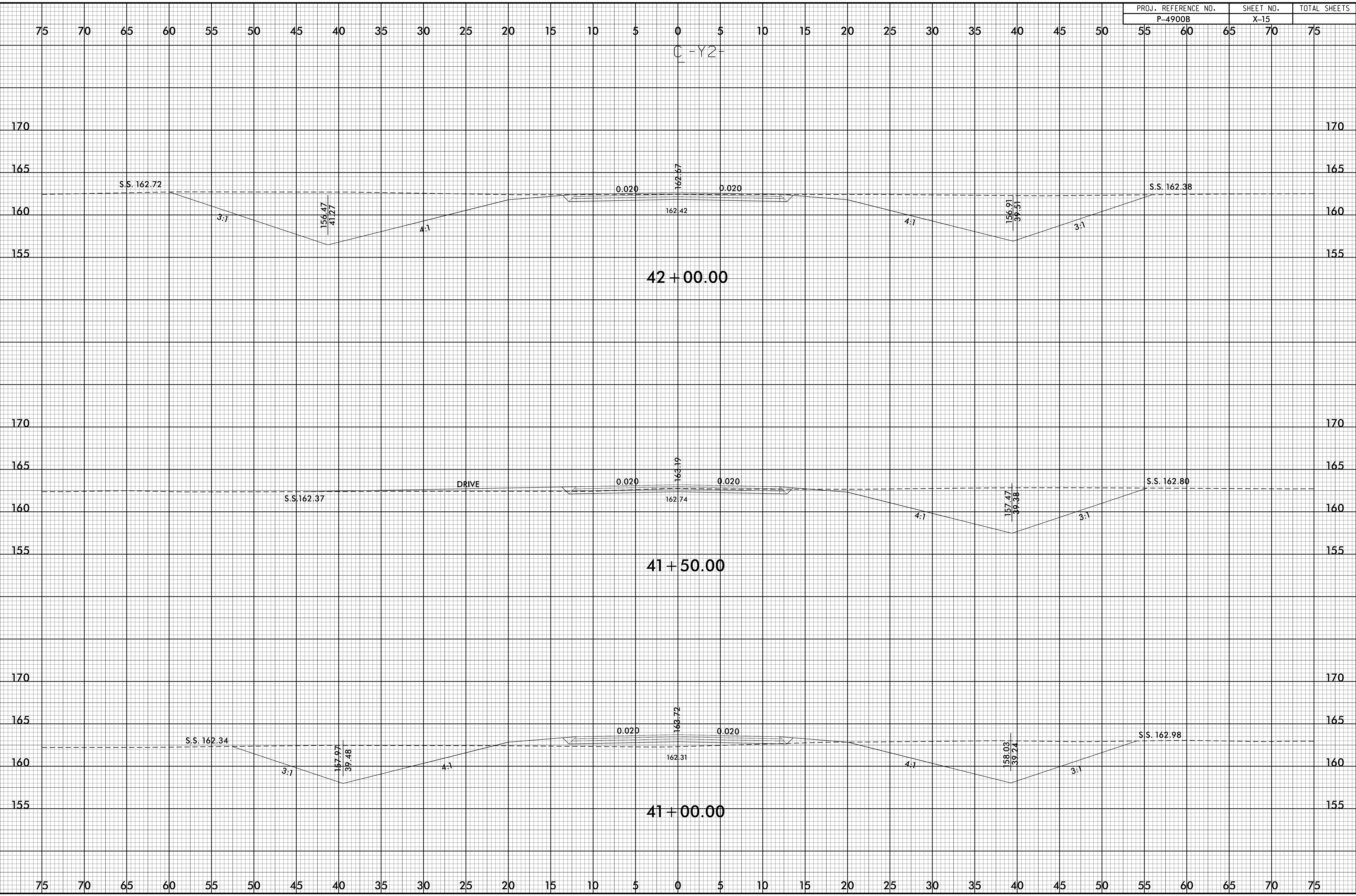
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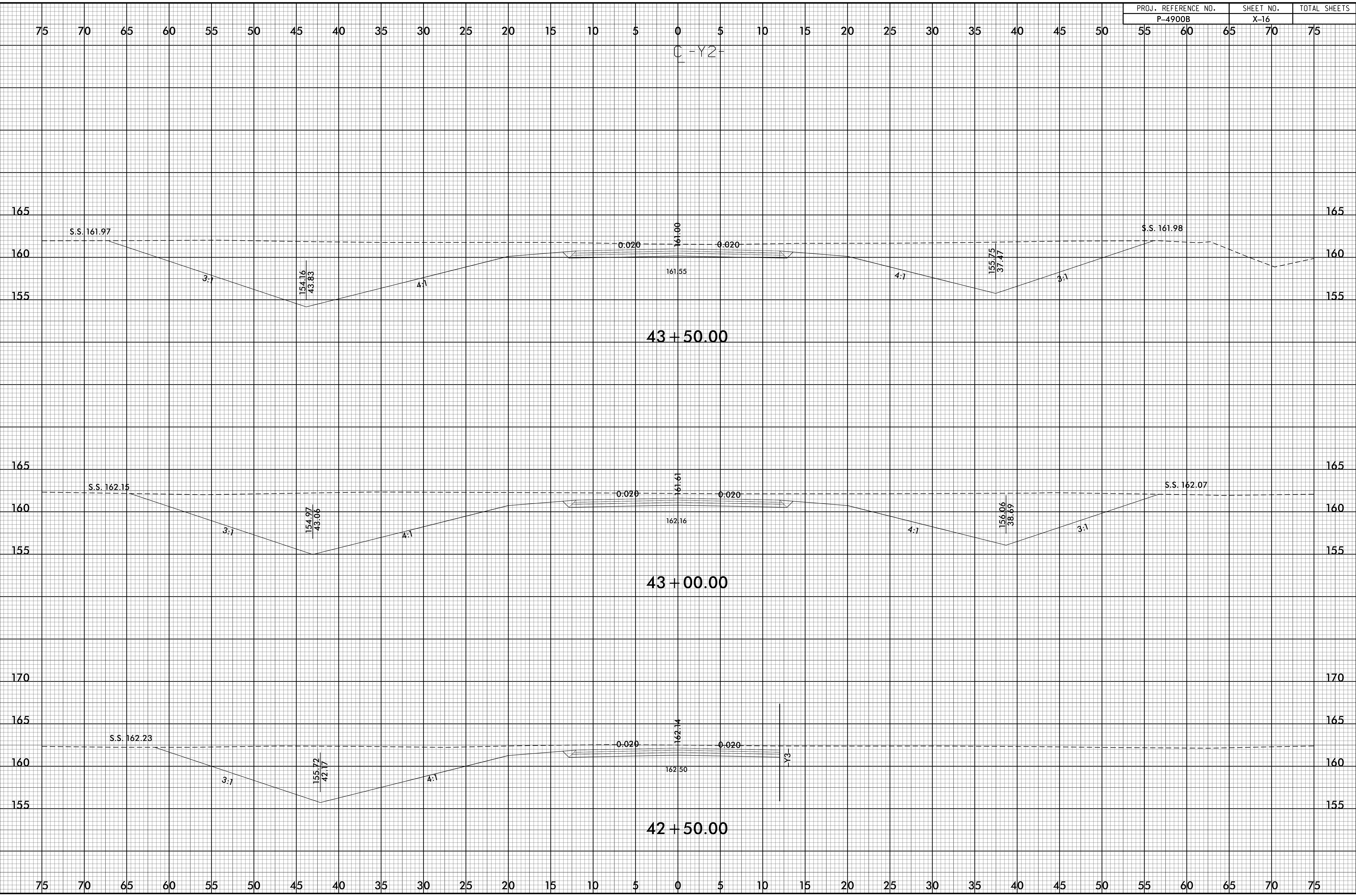
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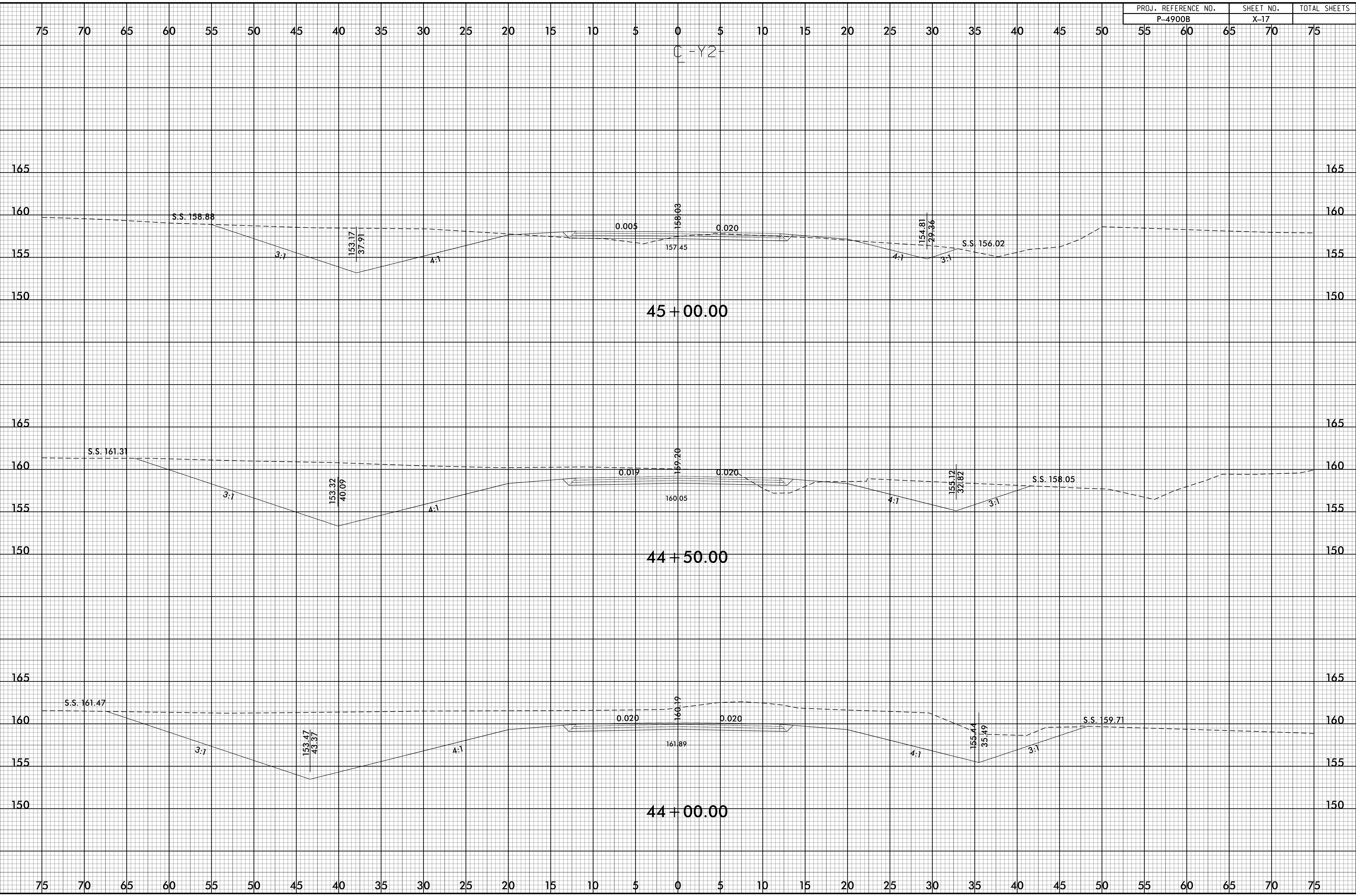
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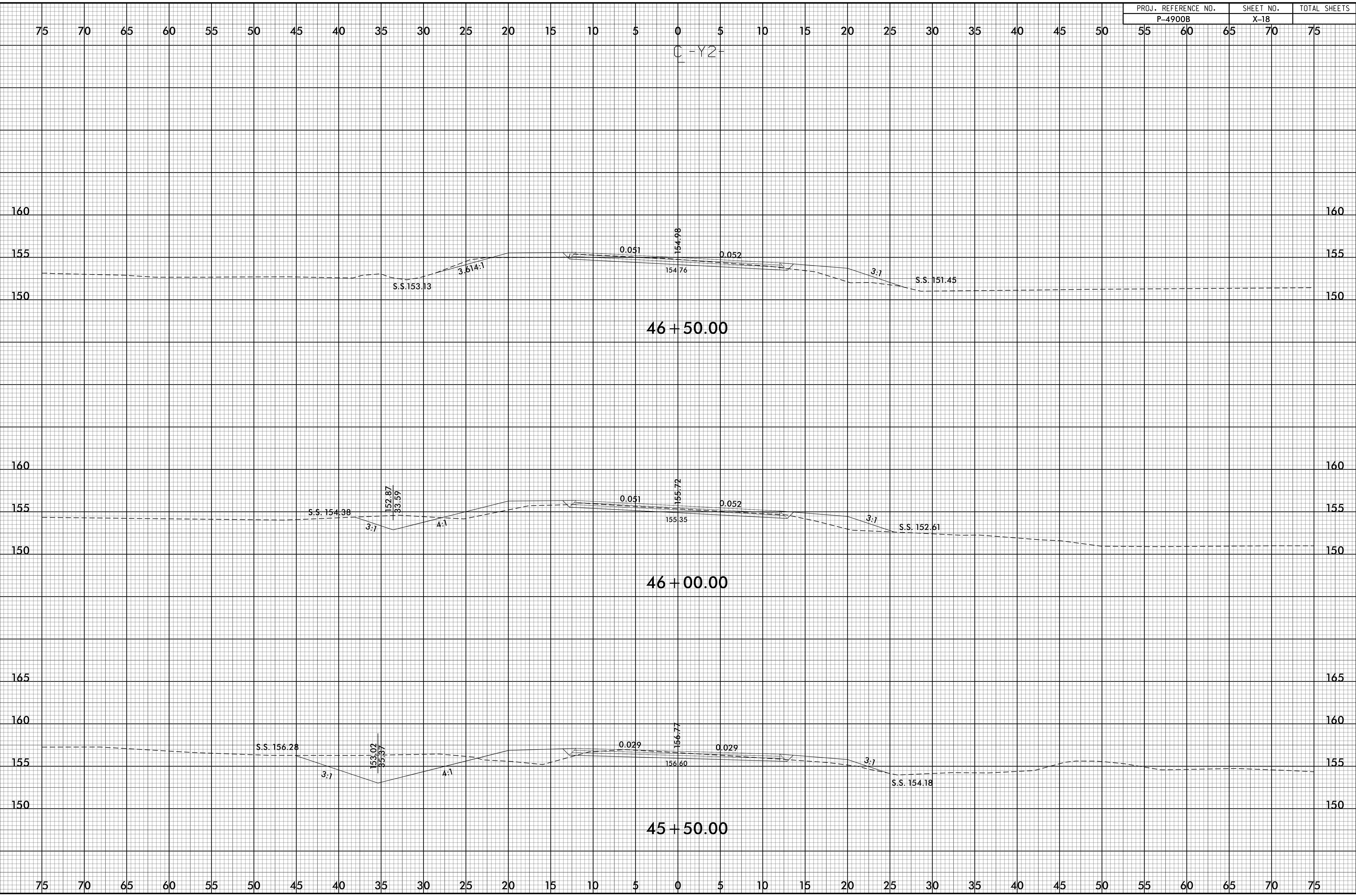
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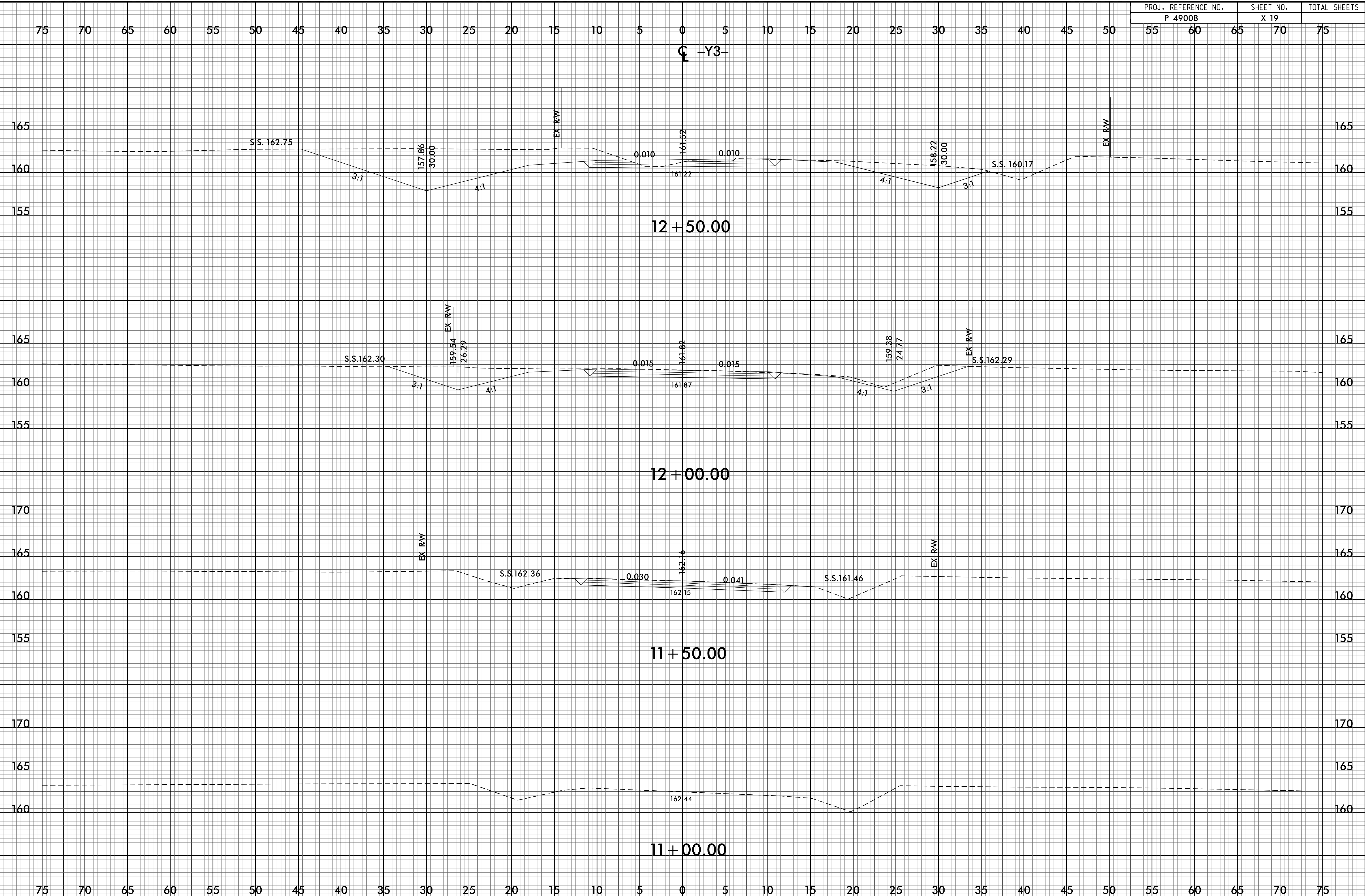
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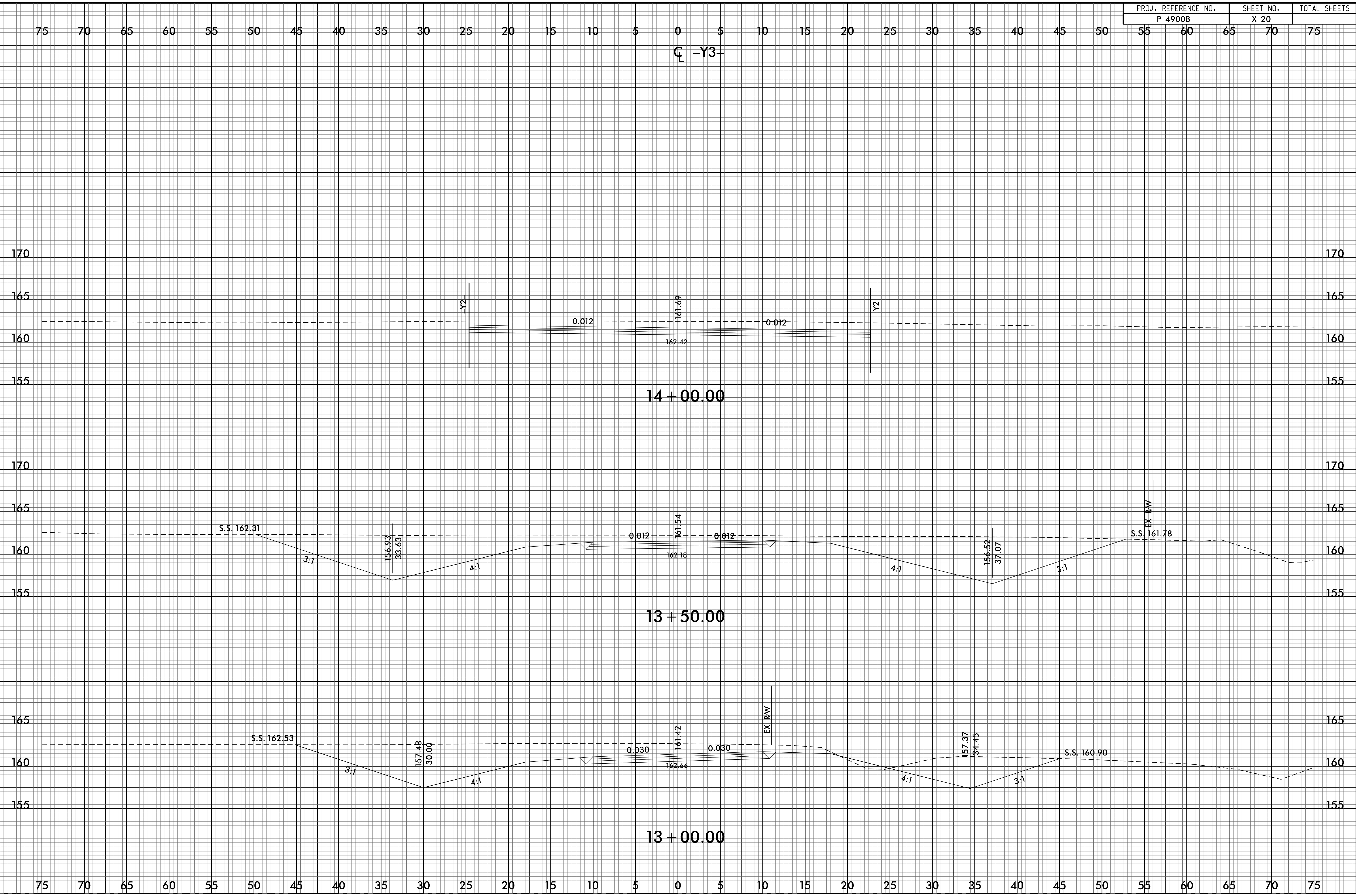
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