

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
R-619EI	TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL**

TRANSYLVANIA COUNTY

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-
ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C.,
DATED JANUARY 2006 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
1101.03	TEMPORARY ROAD CLOSURES
1101.06	WARNING SIGNS FOR BLASTING AREAS
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS-MOUNTING HEIGHT & LATERAL CLEARANCE
1110.02	PORTABLE WORK ZONE SIGNS-MOUNTING HEIGHT & LATERAL CLEARANCE
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES-TYPE III
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR-DELINEATION
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2	PROJECT NOTES
TCP-3	PHASING
TCP-4 TO TCP-7	PHASE I
TCP-8 TO TCP-9	PHASE II
TCP-9 TO TCP-11	PHASE III
TCP-12	DETOUR AND BARRICAD LOCATIONS FOR TEMPORARY ROAD CLOSURE
TCP-13	WORK ZONE ADVANCE WARNING SIGNS
TCP-14	TYPICAL DETOUR SECTIONS

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
 - TYPE II BARRICADE
 - TYPE III BARRICADE
 - CONE
 - DRUM SKINNY DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - WARNING FLAGS
 - CRASH CUSHION
 - CHANGEABLE MESSAGE SIGN
 - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - POLICE
 - FLAGGER

R-619EI

TIP PROJECT:

IS-OCT-2007 1340
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wroach AT 04/02/2005 9:50

APPROVED: <i>Wanda Roach Austin</i> DATE: 10-16-07	PLAN PREPARED BY: N.C.D.O.T. DIVISION 14 DESIGN UNIT
SEAL	_____ TRAFFIC CONTROL ENGINEER
	_____ TRAFFIC CONTROL PROJECT ENGINEER
	_____ TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	_____ TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

PROJECT NOTES

PROJ. REFERENCE NO.	SHEET NO.
R-619EI	TCP-2

GENERAL NOTES

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 UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, 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.

TIME RESTRICTIONS

DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME NC 281 HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 5:00 P.M. DECEMBER 31st TO 8:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 A.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 5:00 P.M. THURSDAY AND 8:00 A.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00 P.M. FRIDAY TO 8:00 A.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 A.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 5:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 5:00 P.M. FRIDAY AND 8:00 A.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00 P.M. TUESDAY TO 8:00 A.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

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.

ROADWAY EDGE DROP OFF REQUIREMENTS

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

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.

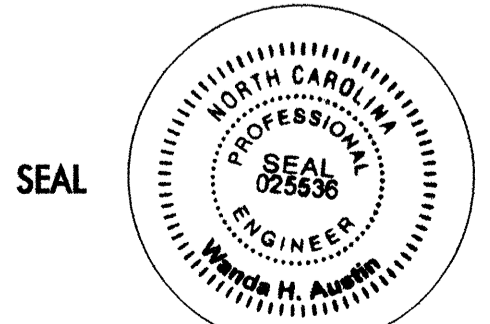

SIGNING

- A) 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.
- B) STATE FORCES WILL BE RESPONSIBLE FOR PERMANENT SIGNING.
- C) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- D) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- E) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- A) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- B) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

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APPROVED: <i>Wanda Cust</i> DATE: 11-27-07		PROJECT NOTES	
	SCALE: NONE		REVISIONS
	DATE: JUNE 07		
	DWG. BY: WHR		
	DESIGN BY: WHR		
REVIEWED BY: PW		CADD FILE	

PROJ. REFERENCE NO.	SHEET NO.
R-619E1	TCP-3

NOTE: MAINTAIN LOCAL TRAFFIC WITHIN THE PROJECT LIMITS THROUGHOUT THE DURATION OF THE PROJECT.

PHASE I

- STEP 1) INSTALL WORK ZONE ADVANCE WARNING SIGNS AS SHOWN ON SHEET TCP-13.
- STEP 2) USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 7, BEGIN WIDENING FROM -LREV- STA.102+50 +/- TO STA.113+55 +/-.
- STEP 3) CONSTRUCT CHANNEL CHANGE FROM -LREV- STA.113+55 +/- TO STA.114+50 +/-.
- STEP 4) USING DETOUR AS SHOWN ON SHEET TCP-12, CLOSE NC 281 TO ALL TRAFFIC FROM STA 113+55 +/- TO STA 215+00 +/-.
- STEP 5) CONSTRUCT NEW ALIGNMENTS AND WIDEN AS INDICATED ON ROADWAY PLANS TO STA 157+00

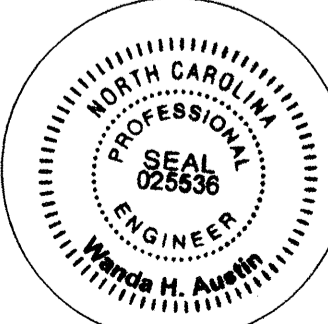

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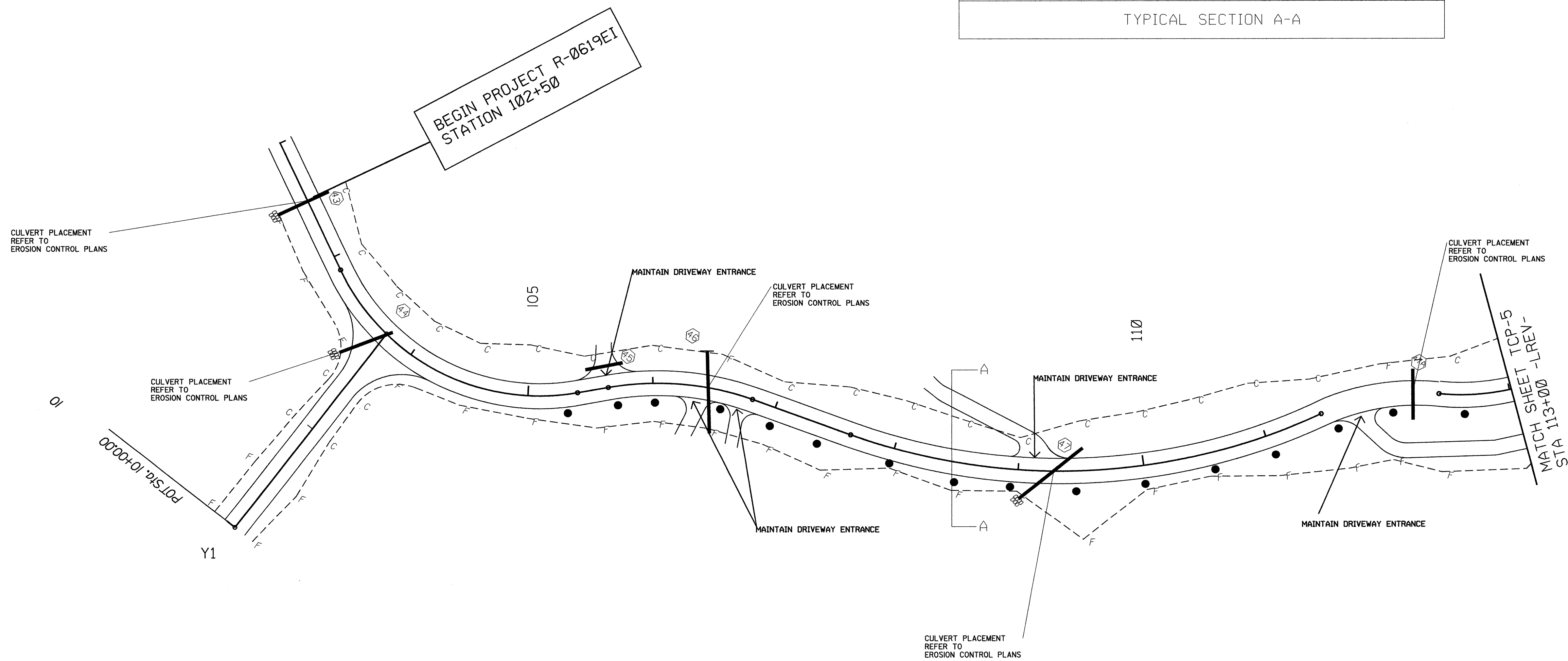
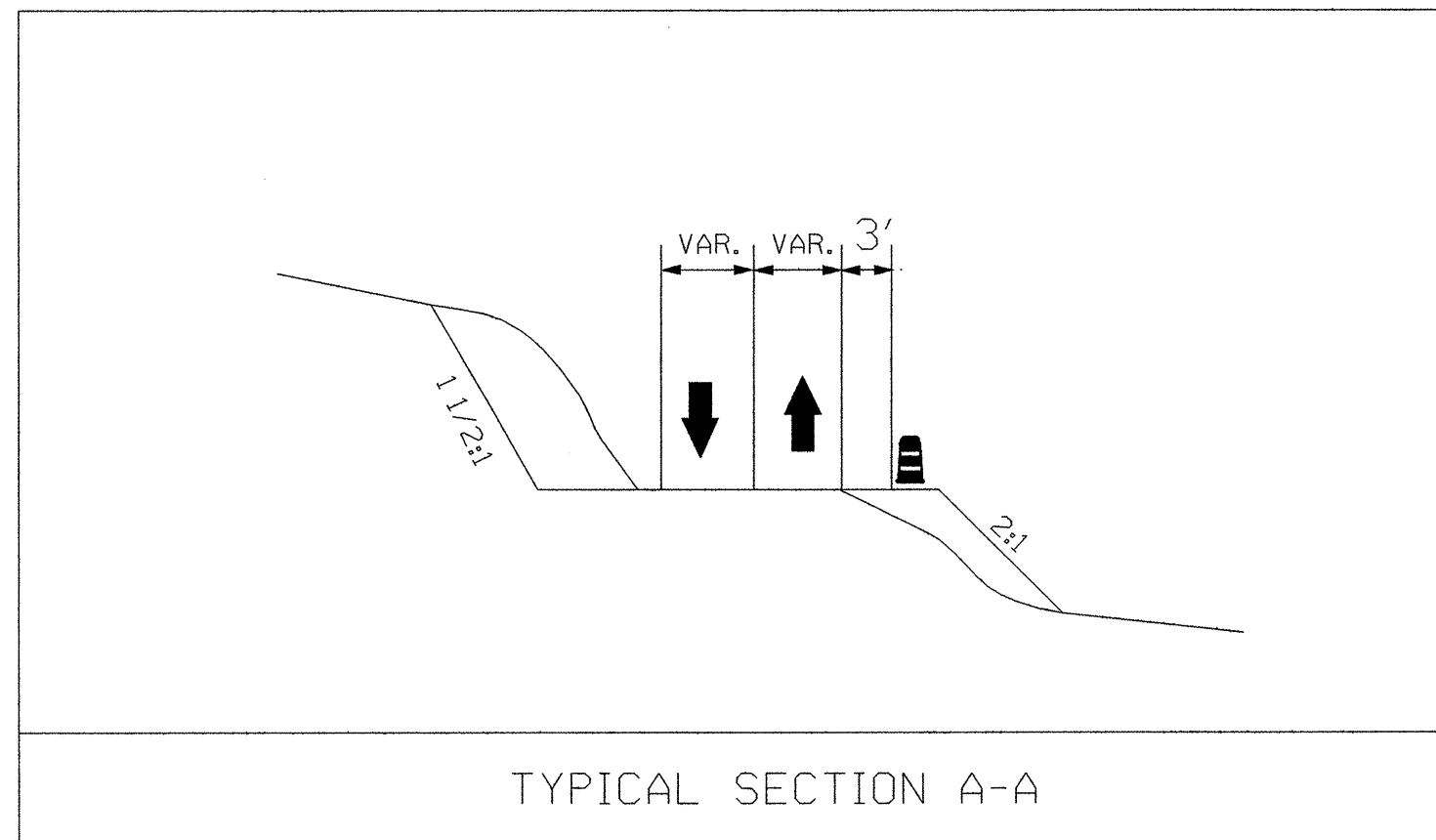
- STEP 1) INSTALL GUARDRAIL FROM -LREV- STA.157+00 TO STA.182+00 AS INDICATED ON GUARDRAIL SUMMARY SHEET
- STEP 2) OPEN ROAD TO TRAFFIC FROM STA. -LREV- 157+00 TO STA.182+00
- STEP 3) CONSTRUCT NEW ALIGNMENT AND WIDEN AS INDICATED ON ROADWAY PLANS
- STEP 4) INSTALL GUARDRAIL FROM -LREV- STA.182+00 TO STA.215+00 AS INDICATED ON GUARDRAIL SUMMARY SHEET

PHASE II

- STEP 1) INSTALL GUARDRAIL FROM -LREV- STA.102+50 TO STA.157+00 AS INDICATED ON GUARDRAIL SUMMARY SHEET
- STEP 2) OPEN ROAD TO TRAFFIC FROM STA 113+55 TO 157+00.
- STEP 3) CONSTRUCT NEW ALIGNMENTS AND WIDEN AS INDICATED ON ROADWAY PLANS TO STA 182+00

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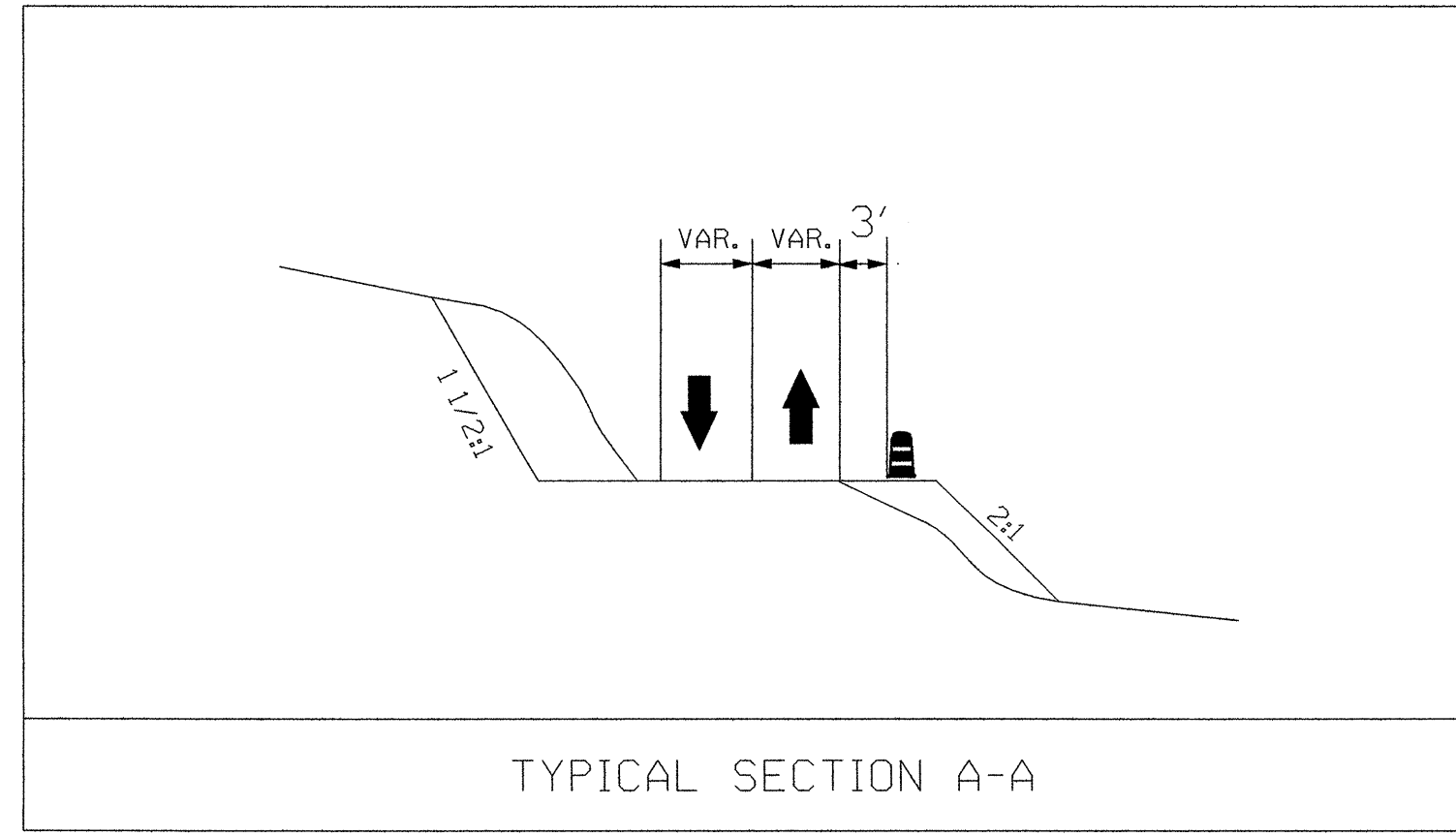
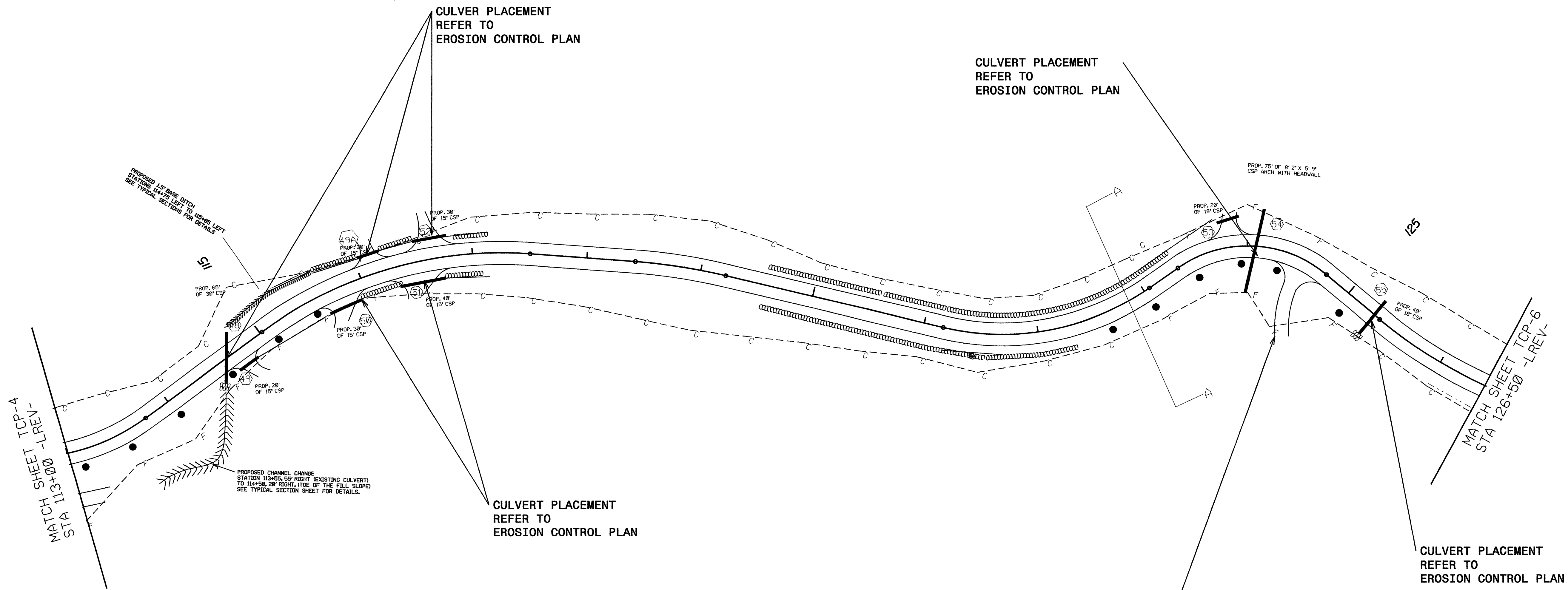
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APPROVED: <i>Wanda H. Austin</i> DATE: 11-8-07		PHASE 1										
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R-619 EI	TCP-5



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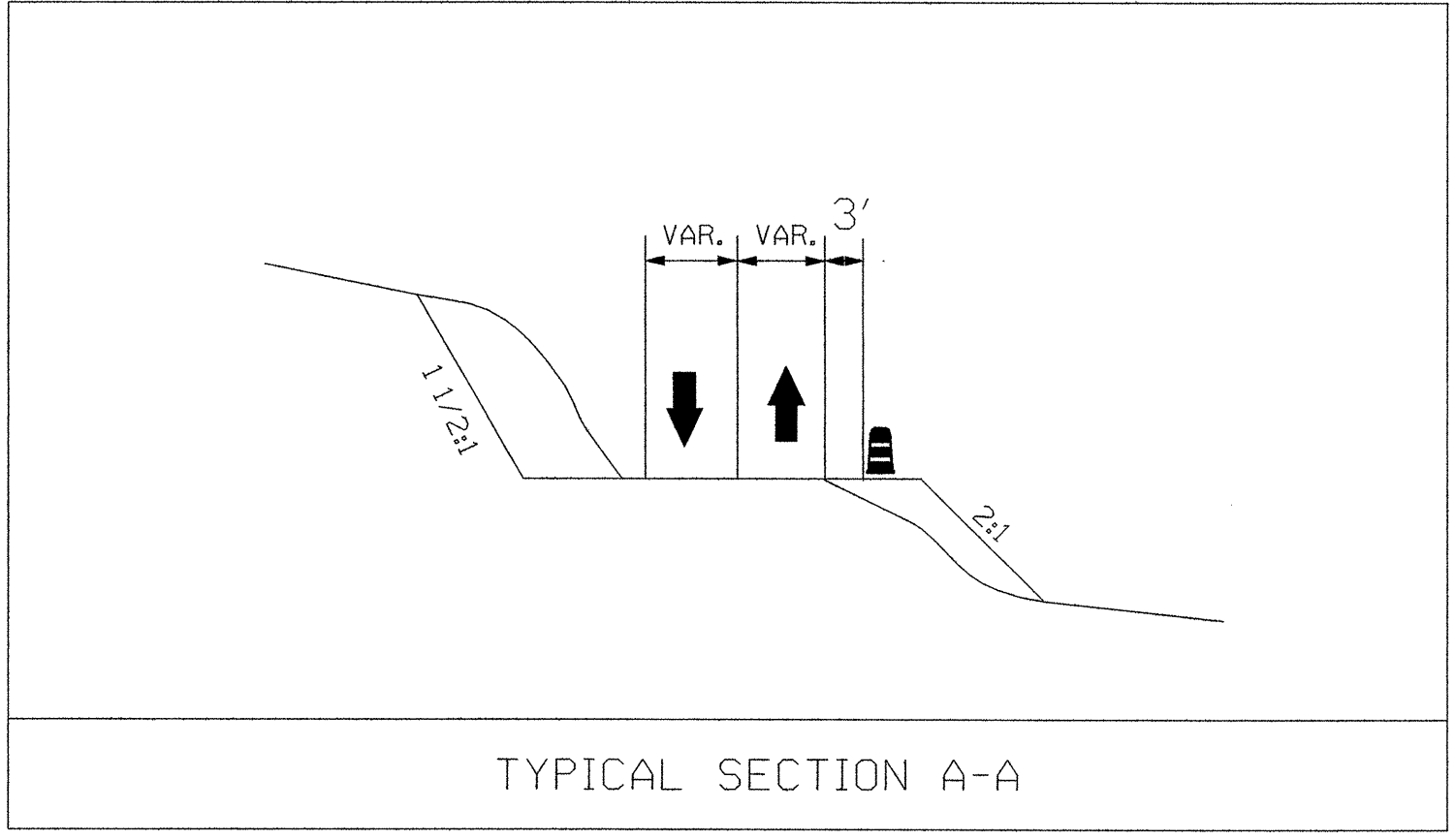
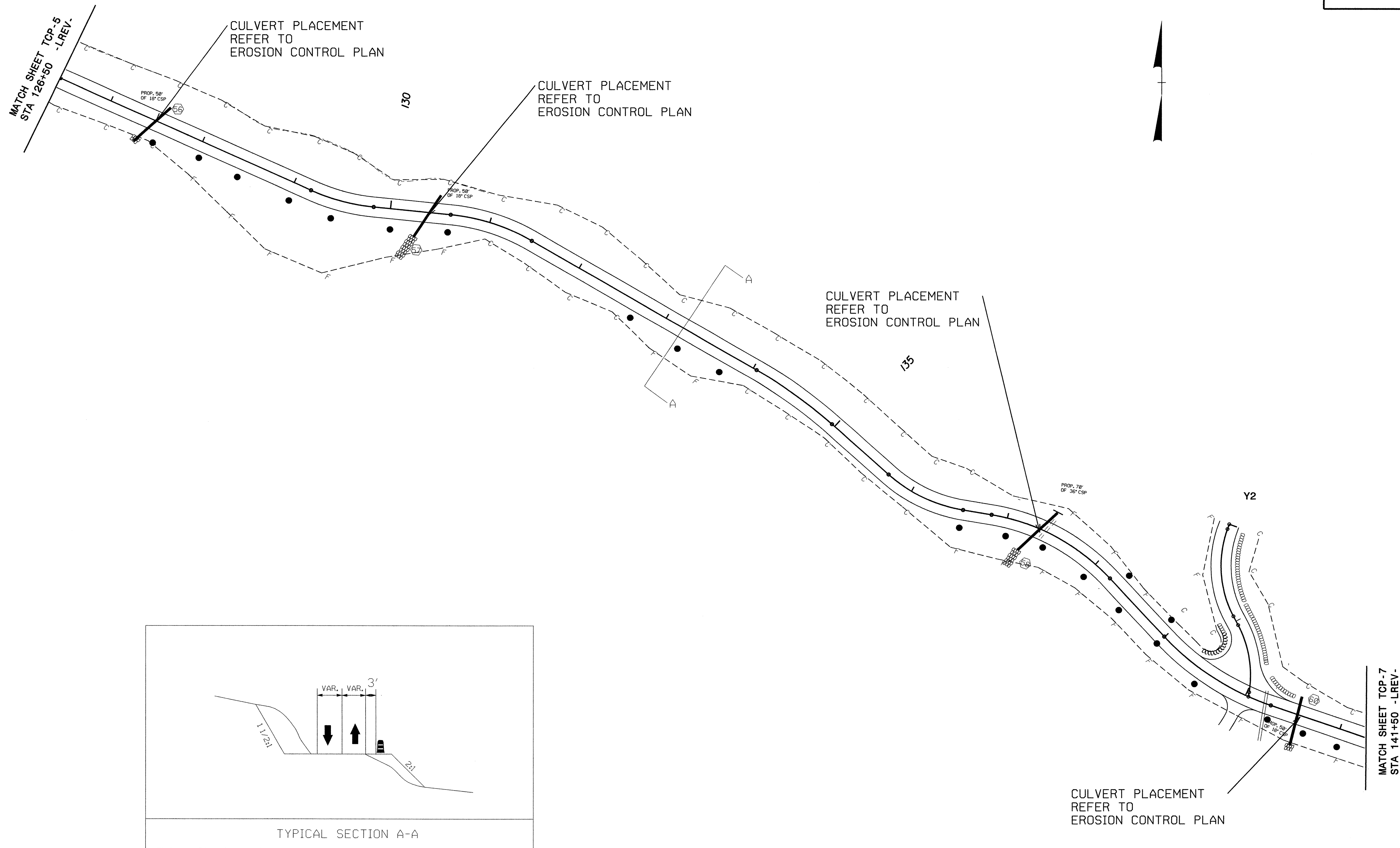
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PROJ. REFERENCE NO.	SHEET NO.
R-619 EI	TCP-6



APPROVED: *Wanda H. Austin* DATE: 11-8-07

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DATE: JULY 07
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DESIGN BY: WHR
REVIEWED BY: PW

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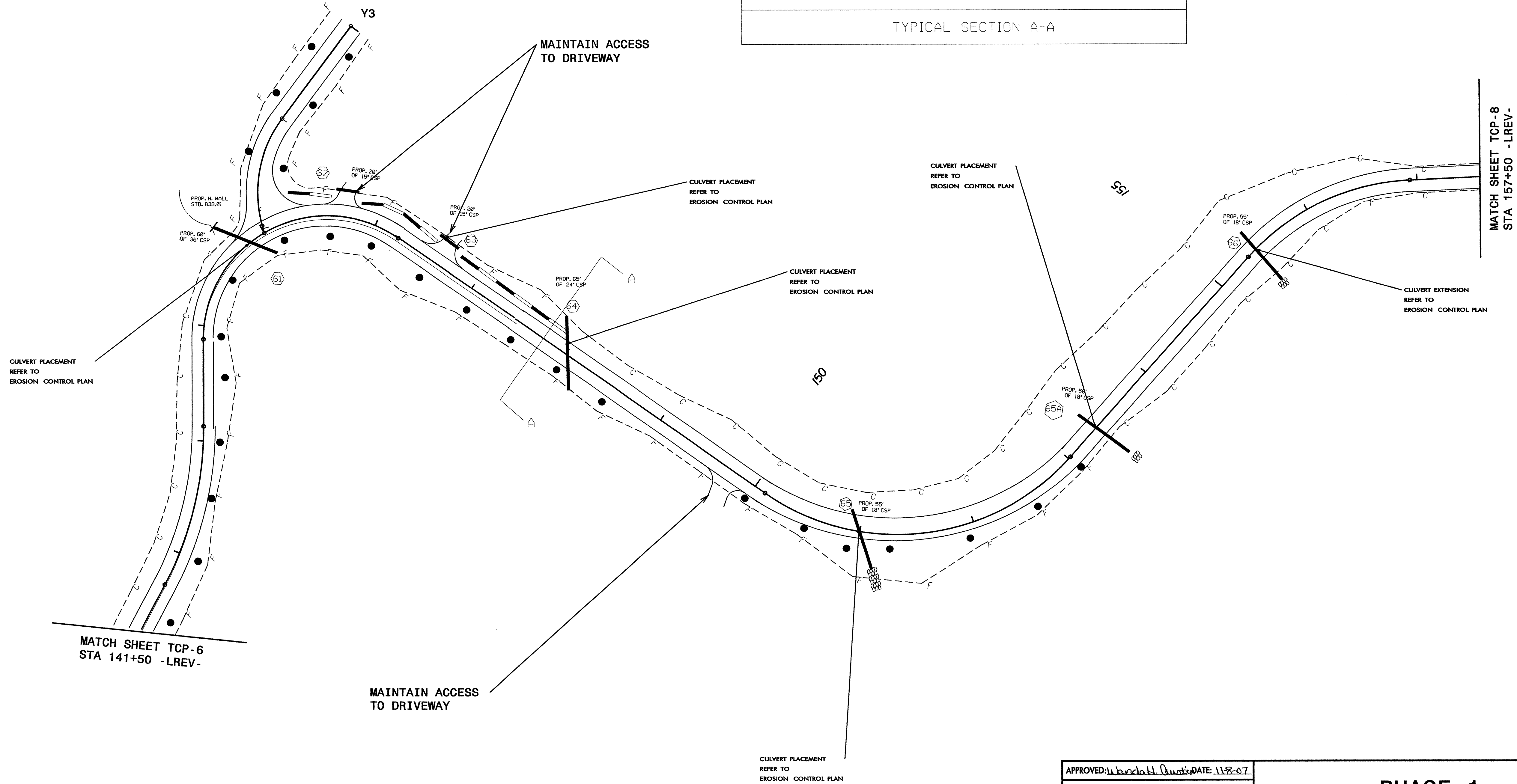
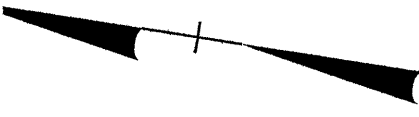
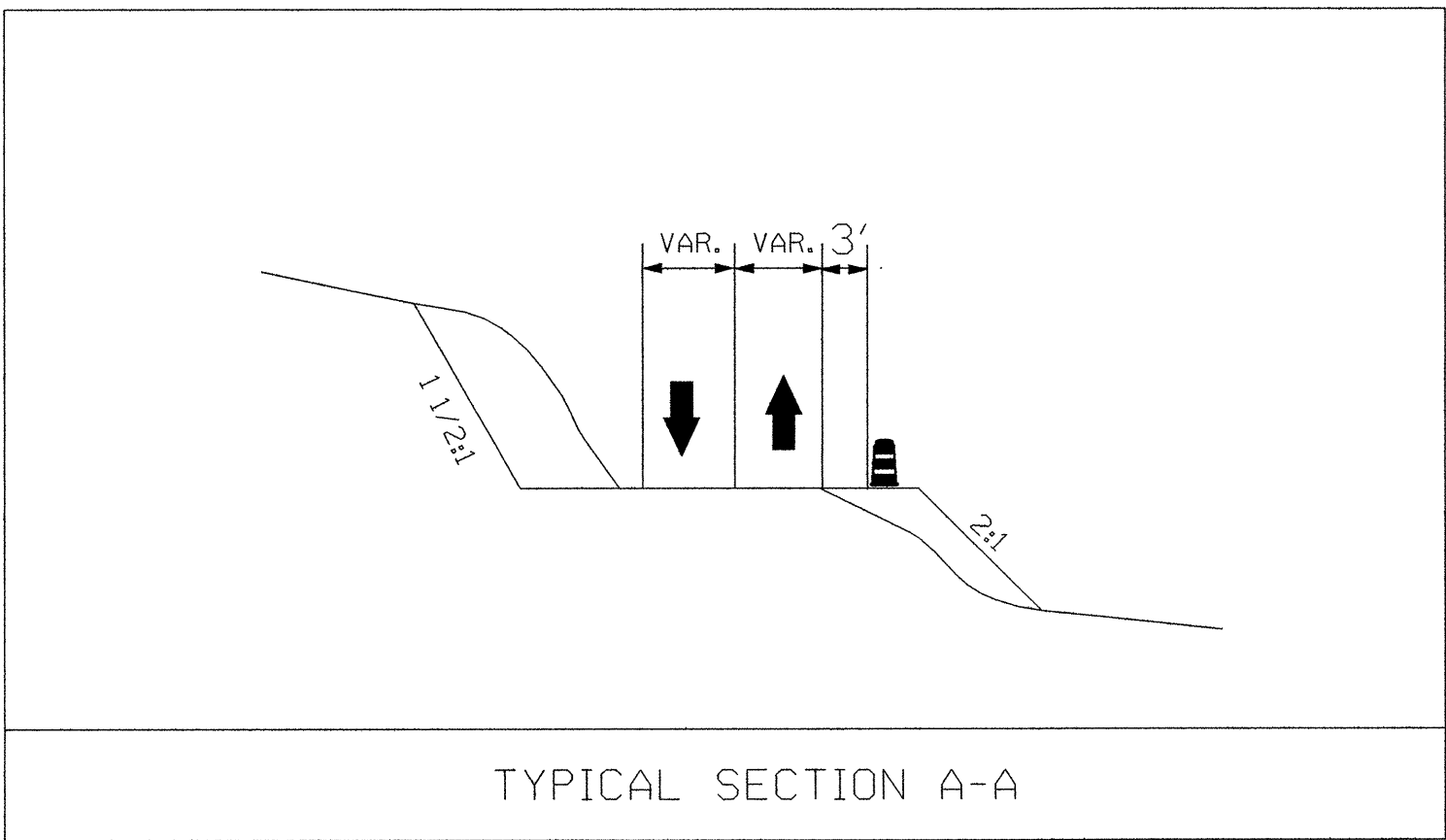
Wanda H. Austin
PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
LICENSE NO. 025536

REVISIONS

NO.	DESCRIPTION

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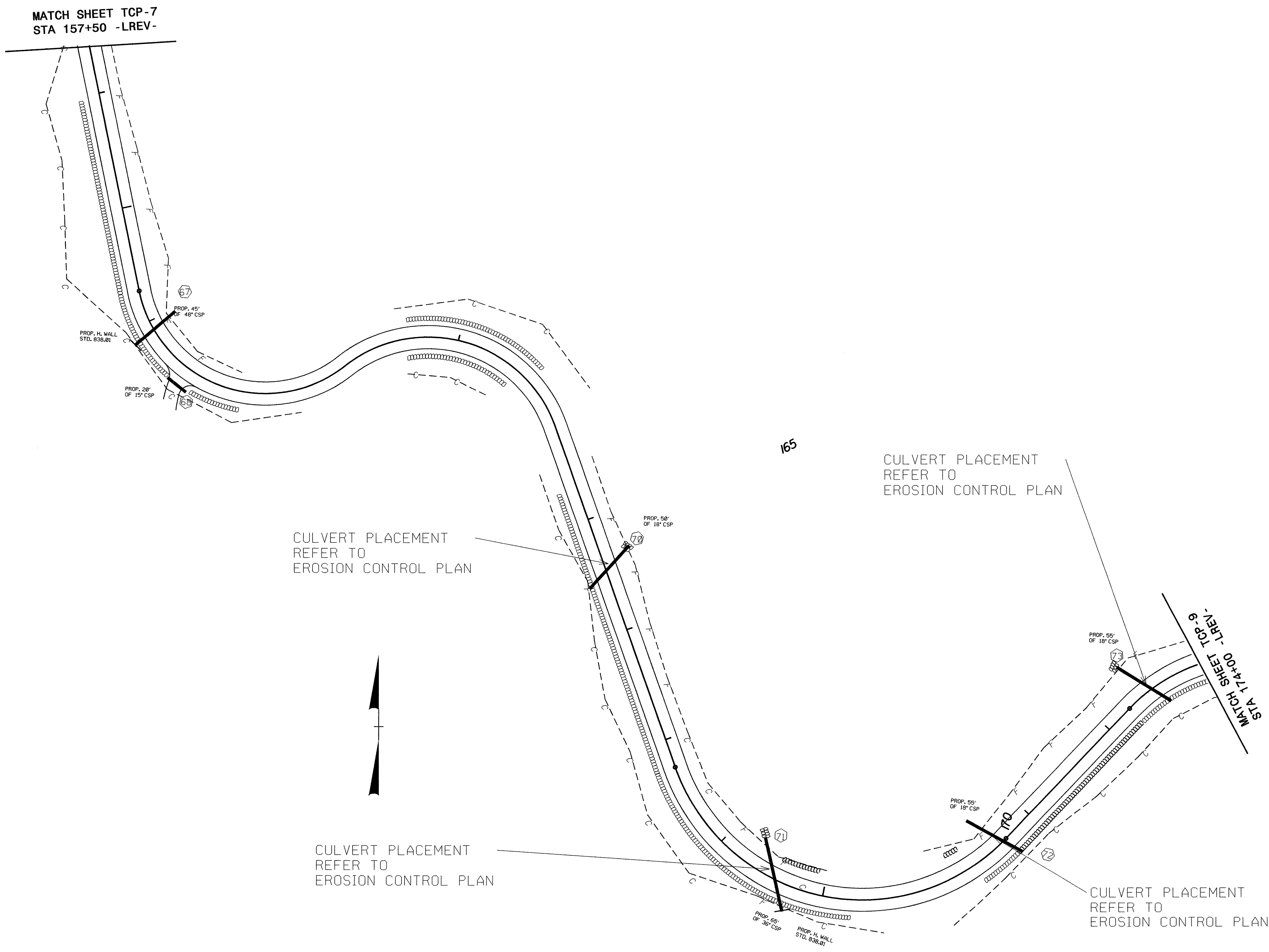
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R-619 EI	TCP-8



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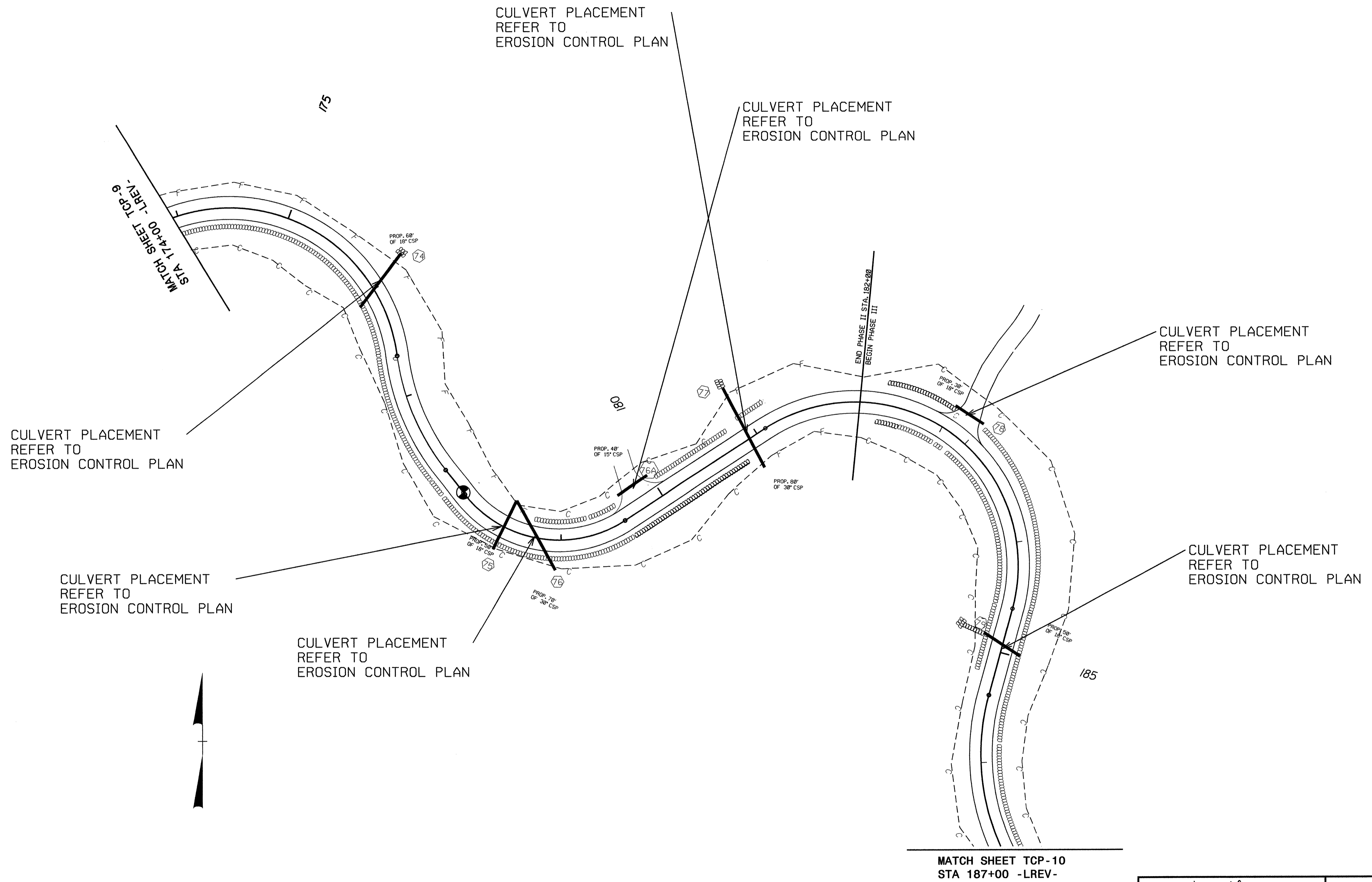
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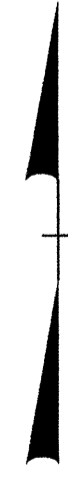
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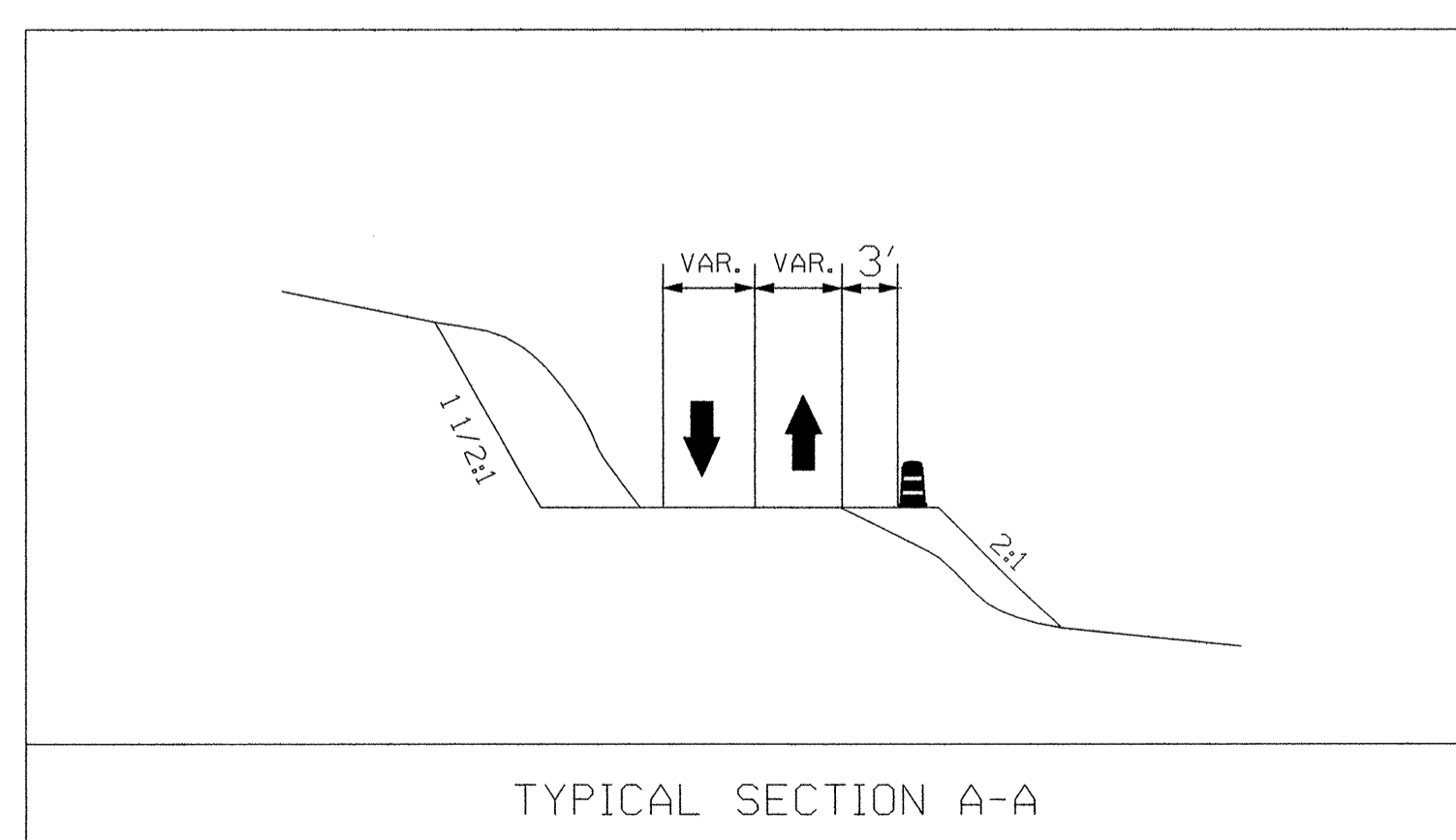
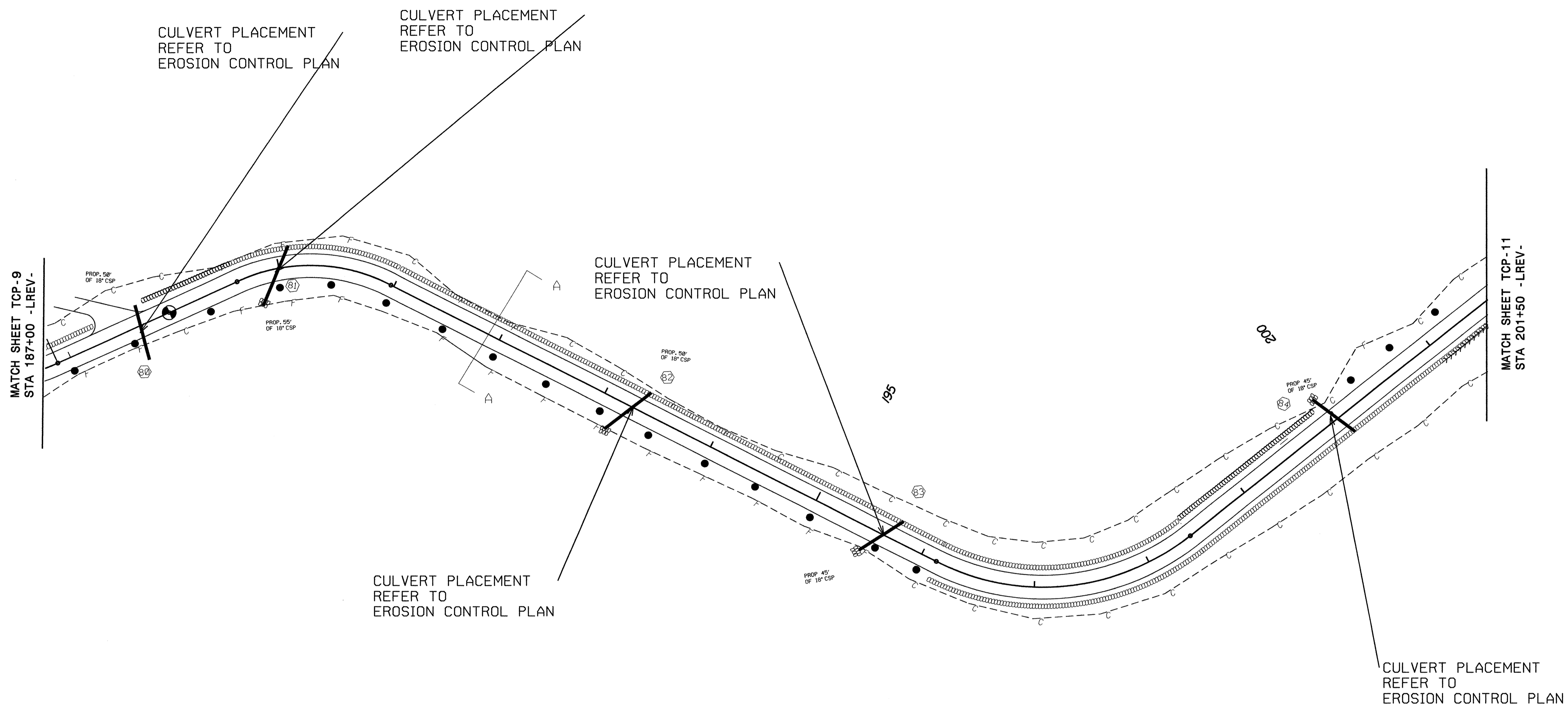


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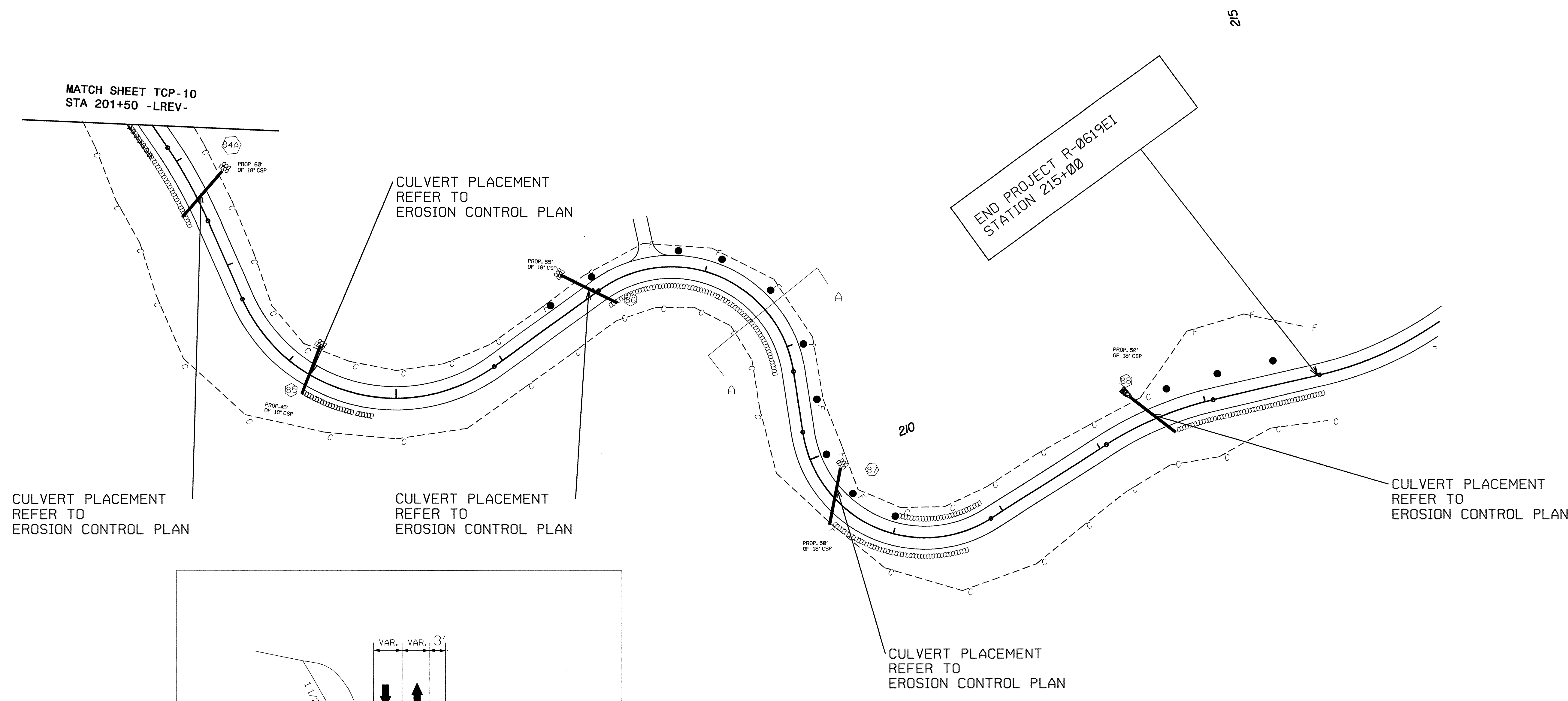
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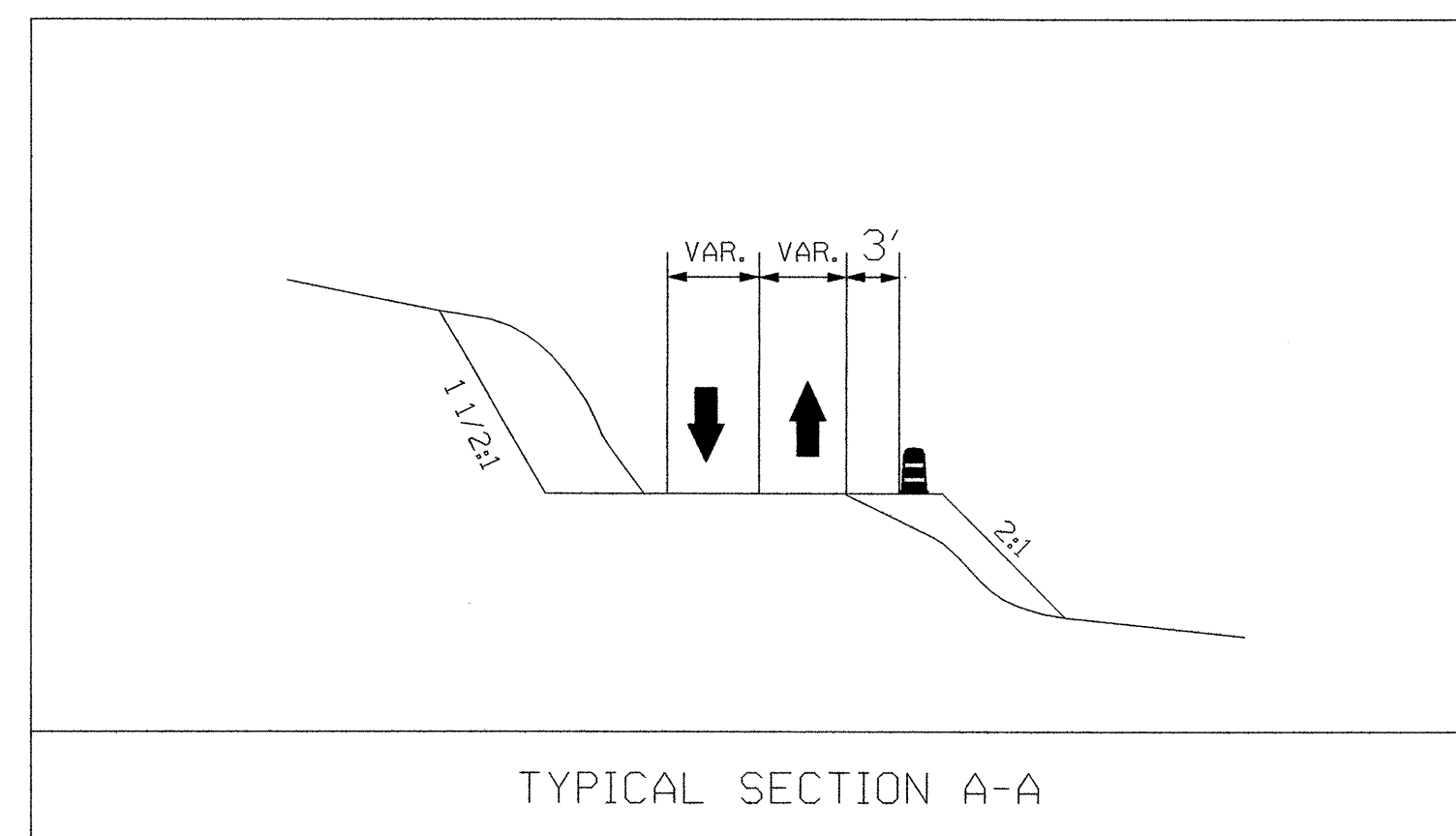


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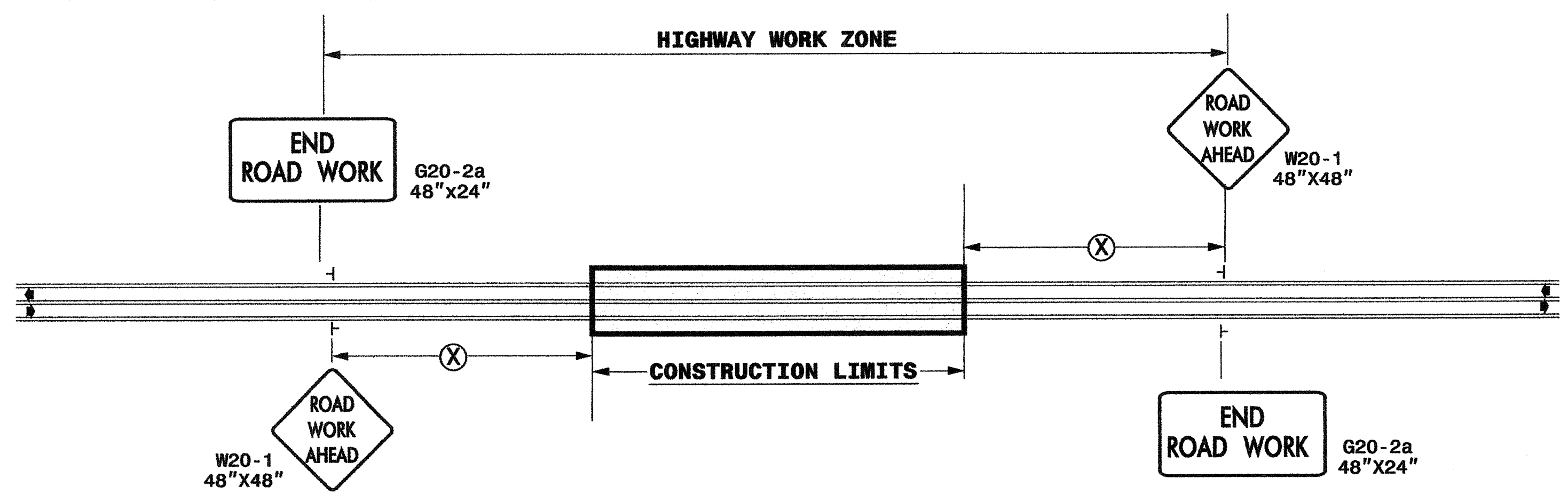
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APPROVED: <i>Wanda H. Oust</i> DATE: 11-8-07		PHASE 3	
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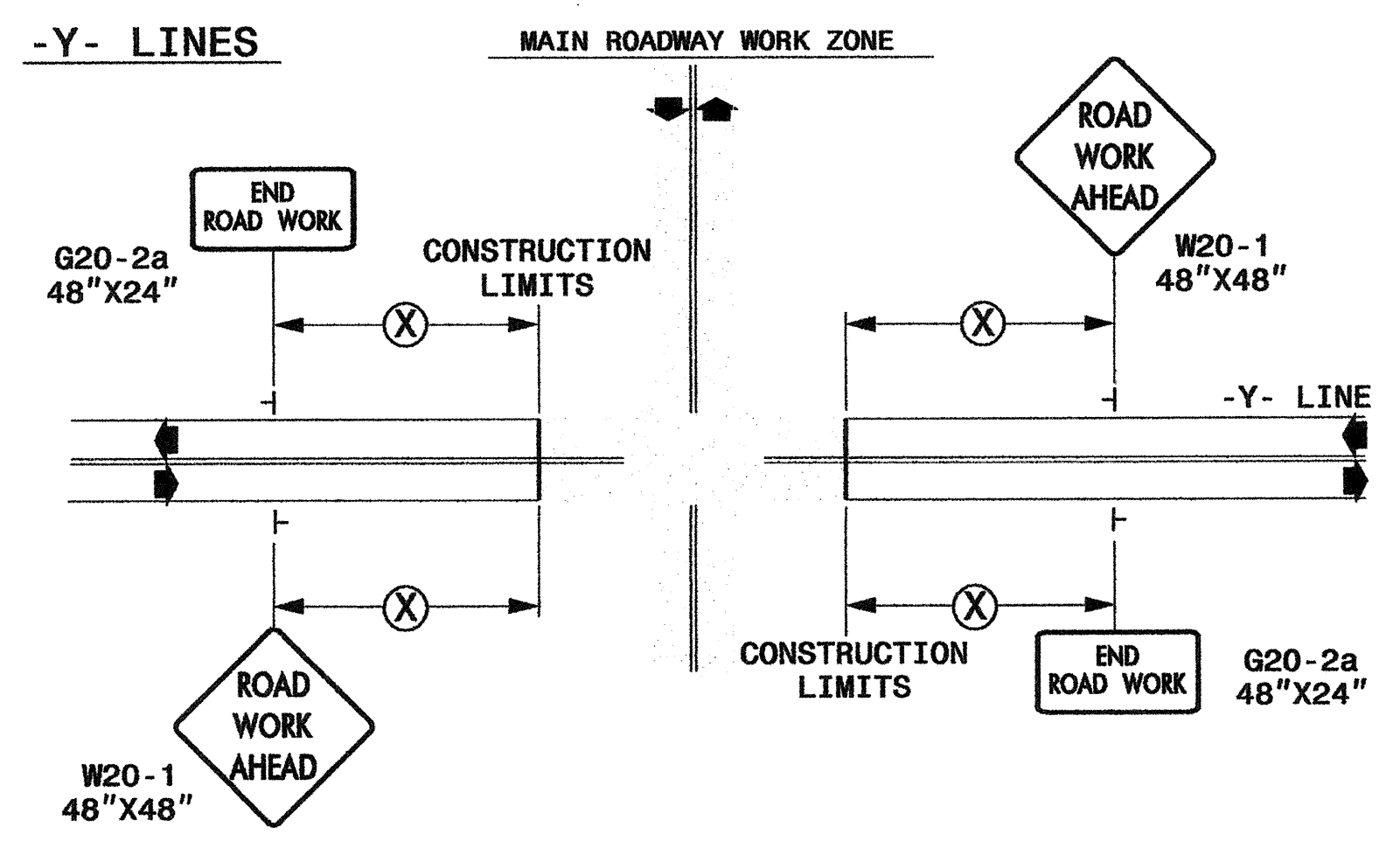
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



**DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS**

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

┆ STATIONARY SIGN

◄ DIRECTION OF TRAFFIC FLOW

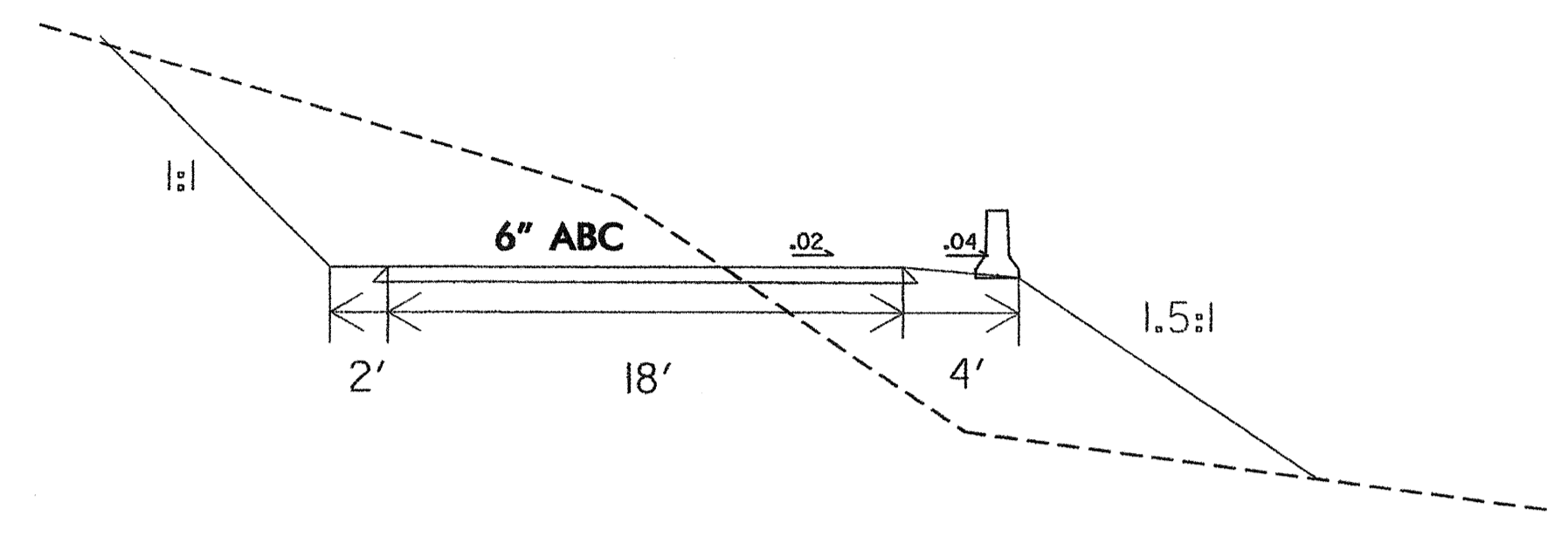
SHEET 1 OF 1

APPROVED: <i>Wanda H. Polch</i> DATE: 9-18-07	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS		
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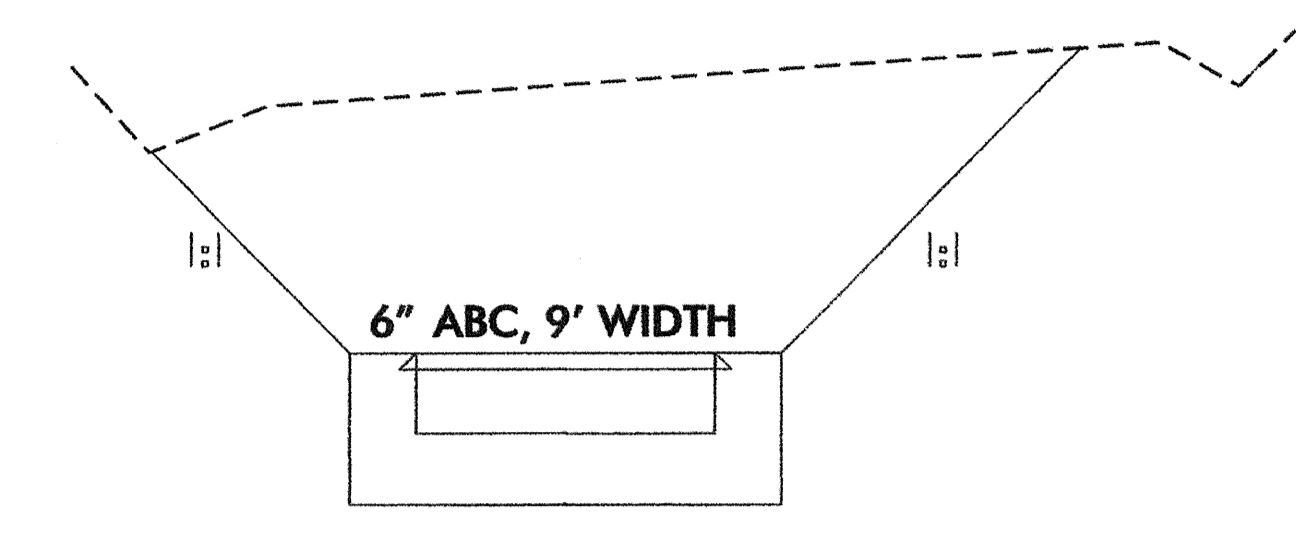
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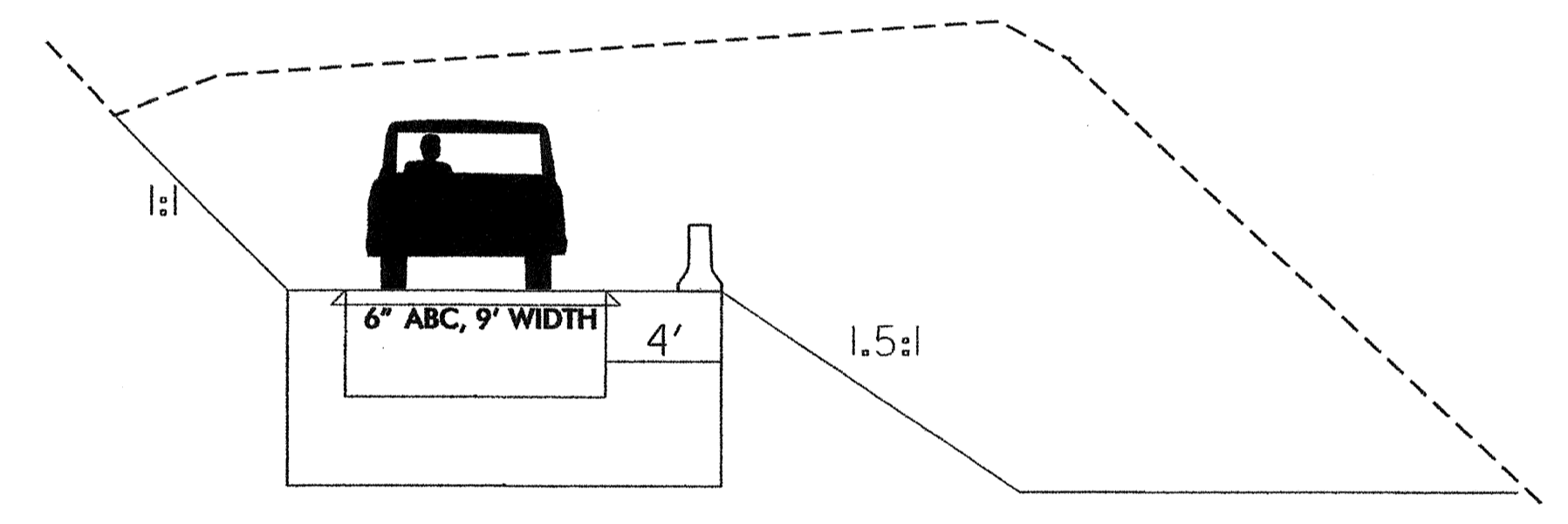
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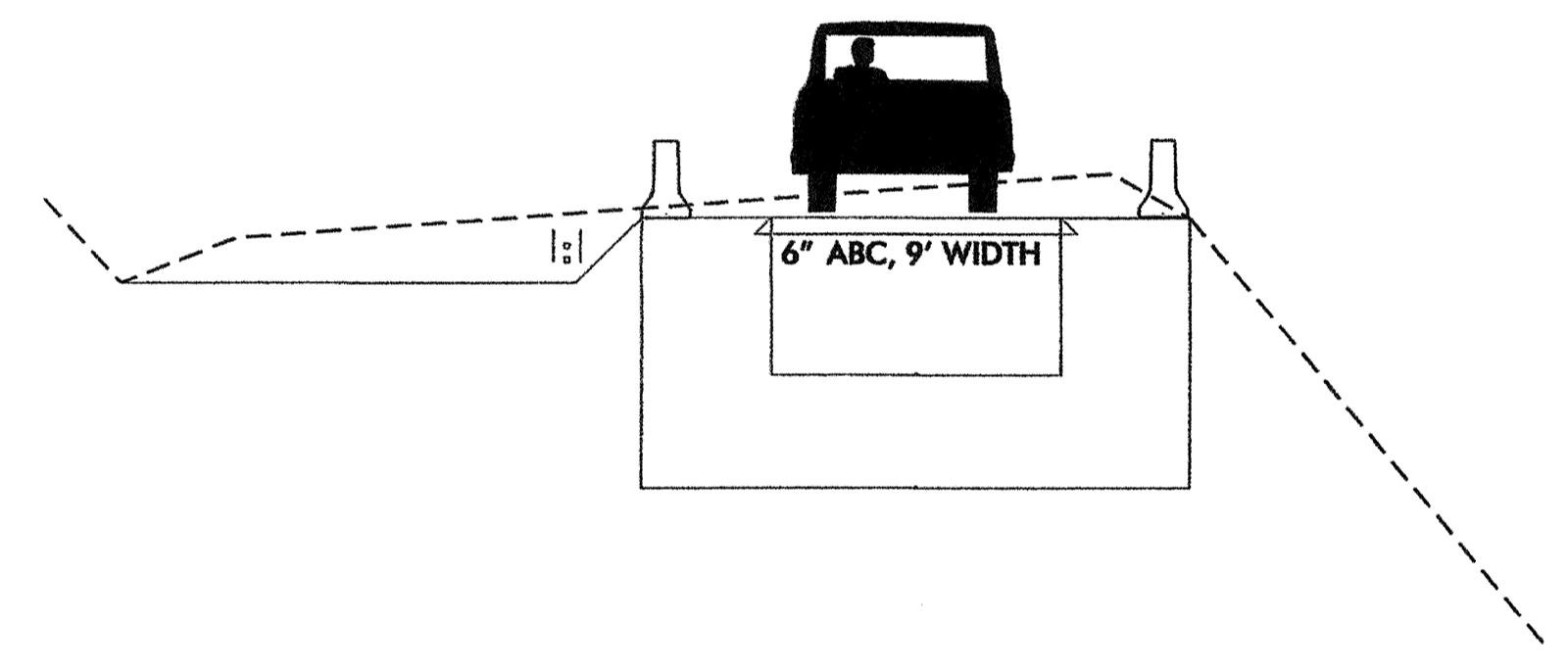
1. MINIMUM SECTION OF 2-LANE DETOUR



2. MINIMUM CROSS SECTION OF 1-LANE DETOUR



3. MINIMUM CROSS SECTION OF 1-LANE DETOUR



4. MINIMUM CROSS SECTION OF 1-LANE DETOUR

----- EXISTING GRADE

_____ INTERMEDIATE GRADE

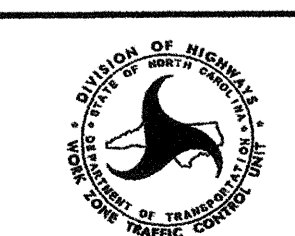
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APPROVED: *W. J. ...* DATE: 9-18-07



TYPICAL DETOUR SECTIONS

SCALE: NONE
 DATE: SEP 07
 DWG. BY: WR
 DESIGN BY: PW
 REVIEWED BY:



REVISIONS	

CADD FILE