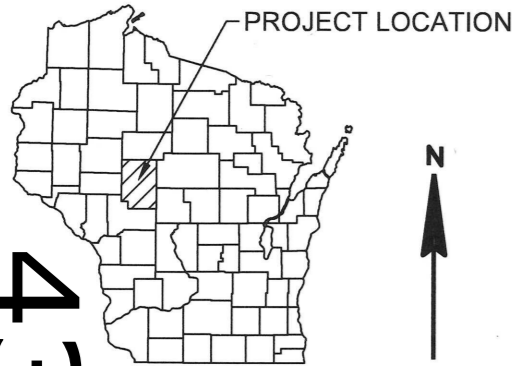


JANUARY 2022 ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	<del>4</del>	<del>Right of Way Plat</del>
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	<del>8</del>	<del>Structure Plans</del>
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 76



DESIGN DESIGNATION

A.A.D.T.	2022	=	1350
A.A.D.T.	2042	=	2960
D.H.V.		=	373
D.D.		=	60/40
T.		=	28.6
DESIGN SPEED		=	55 MPH
ESALS		=	1,200,000

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

GRANTON - LOYAL

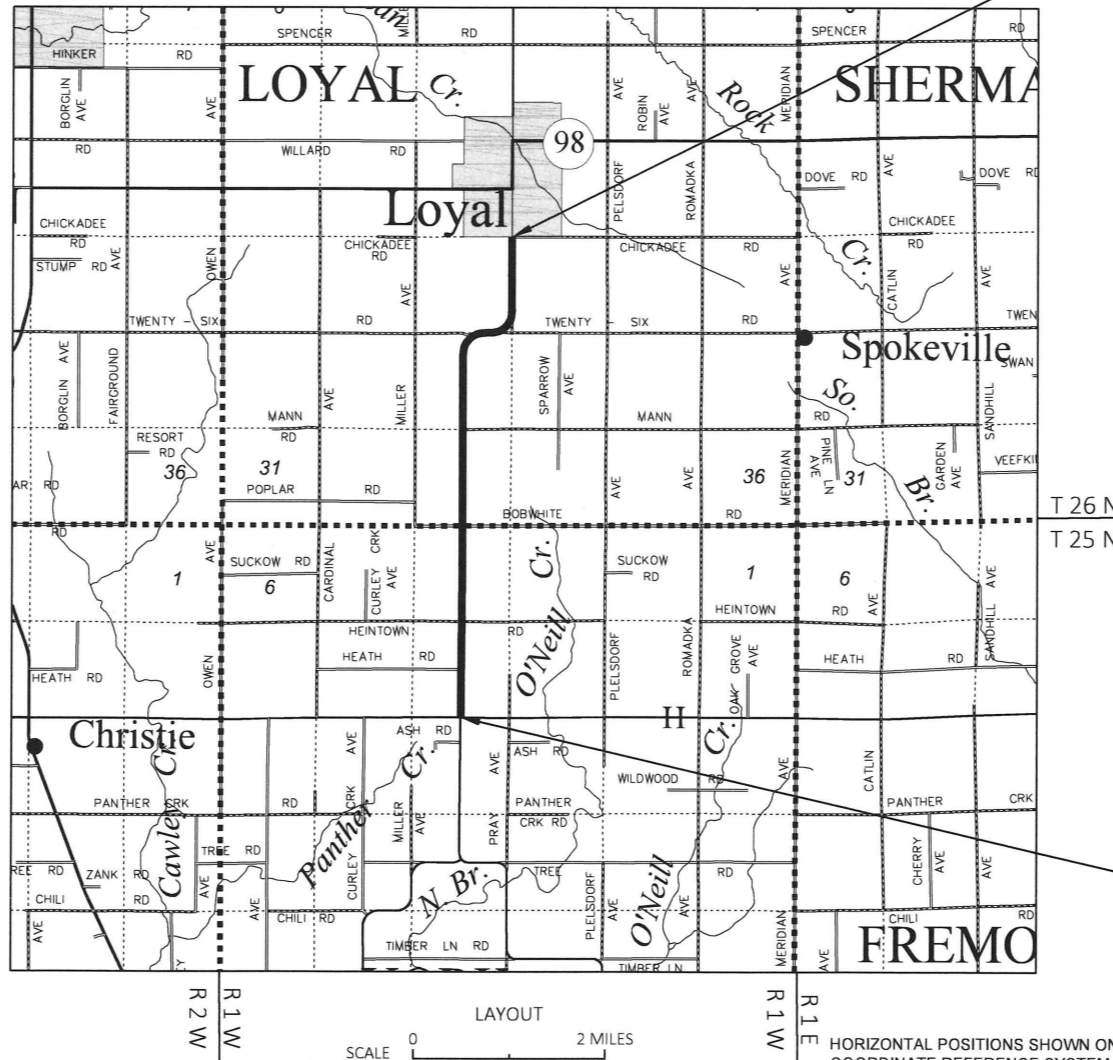
CTH H TO CHICKADEE ROAD

CTH K

CLARK COUNTY

STATE PROJECT NUMBER  
**7864-03-72**

END PROJECT  
STA 290+71



LAYOUT  
SCALE 0 2 MILES  
TOTAL NET LENGTH OF CENTERLINE = 5.309 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), CLARK COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

BEGIN PROJECT  
STA 10+35  
Y=384594.30  
X=708434.10

ACCEPTED FOR  
COUNTY of CLARK  
07-21-21 *Brian Duell*  
(Date) (Signature) HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED BY  
  
  
7/21/21  
DATE: 7/21/21 *Ross T. JOHNSON*  
(Professional Engineer Signature)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
PREPARED BY  
Surveyor CBS SQUARED, INC  
Designer CBS SQUARED, INC  
Project Manager MATTHEW THORNSEN, PE  
Regional Examiner TOU YANG, PE  
Regional Supervisor TYLER RONGSTAD, PE

APPROVED FOR THE DEPARTMENT  
DATE: 7/22/2021 *[Signature]*  
(Signature)

**GENERAL NOTES**

WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

THE CONTRACTOR'S HMA PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN THE DRIVING, TURNING, PASSING OR PARKING LANE.

SUPERELEVATION RATES AS SHOWN ON THE PLAN SHEETS REPRESENT THE APPROXIMATE EXISTING RATES.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED.

4.50-INCH HMA PAVEMENT SHALL BE CONSTRUCTED WITH AN 2-INCH UPPER LAYER AND 2.50-INCH LOWER LAYER.

THE LOCATIONS OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN

TEMPORARY STORAGE OF MATERIAL SHALL NOT BE PERMITTED IN WETLANDS.

DATUM	
HORIZ: NAD 83 (2011), WISCRS CLARK CO.	
VERT: NAVD 88 (2012), GEOID WI-12A	
NORTHING = Y	EASTING = X

**RUNOFF COEFFICIENT TABLE**

A	HYDROLOGIC SOIL GROUP											
	B			C			D			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE: TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 38.53 ACRES  
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.12 ACRES

CONTROL POINT TABLE					
POINT NO.	STA	Y	X	ELEVATION	REMARKS
CP1	290+37.19	410946.35	711194.48	1280.97	3/4" REBAR
CP2	283+61.97	410271.15	711154.37	1280.65	3/4" REBAR
CP3	265+56.15	408465.10	711154.60	1292.72	3/4" REBAR
CP4	258+59.24	407768.22	711156.64	1283.56	3/4" REBAR
CP5	249+90.88	406900.05	711199.47	1270.65	3/4" REBAR
CP6	235+13.46	405687.73	710483.43	1258.82	3/4" REBAR
CP7	228+99.48	405652.31	709867.97	1241.03	3/4" REBAR
CP8	214+84.35	405060.91	708647.09	1221.20	3/4" REBAR
CP9	209+11.92	404506.13	708493.20	1221.64	3/4" REBAR
CP10	188+54.23	402448.10	708532.80	1242.68	3/4" REBAR
CP11	182+58.30	401852.25	708497.11	1245.03	3/4" REBAR
CP12	173+86.61	400980.55	708494.51	1237.94	3/4" REBAR
CP13	167+07.11	400300.84	708562.49	1233.03	3/4" REBAR
CP14	153+55.11	398948.87	708499.72	1233.26	3/4" REBAR
CP15	147+63.59	398357.60	708533.37	1221.57	3/4" REBAR
CP16	131+40.13	396734.23	708501.15	1226.55	3/4" REBAR
CP17	125+22.95	396116.87	708534.55	1214.49	3/4" REBAR
CP18	119+00.45	395494.43	708501.51	1215.13	3/4" REBAR
CP19	112+06.24	394800.10	708534.66	1228.28	3/4" REBAR
CP20	102+02.64	393796.62	708500.84	1216.39	3/4" REBAR
CP21	96+88.02	393281.78	708533.79	1203.51	3/4" REBAR
CP22	77+09.01	391302.79	708520.34	1242.29	3/4" REBAR
CP23	69+31.61	390525.72	708480.21	1257.68	3/4" REBAR
CP24	62+25.28	389819.02	708508.73	1253.64	3/4" REBAR
CP25	45+43.93	388138.38	708448.22	1198.92	3/4" REBAR
CP26	35+91.82	387186.03	708468.99	1189.83	3/4" REBAR
CP27	26+51.48	386245.89	708428.51	1197.79	3/4" REBAR
CP28	15+93.08	385187.32	708455.67	1176.36	3/4" REBAR
CP29	9+00	384493.89	708467.47	1178.95	3/4" REBAR

BORING LOG			
NO.	STA (APPROX)	ASPH. THICKNESS (INCHES)	BASE (INCHES)
1	14+30	5	7
2	47+50	5	8
3	90+30	5	8
4	134+40	5.5	7.5
5	172+20	5	7
6	209+00	6	12
7	240+00	5	6
8	285+10	5	7

**DIGGERS HOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

**UTILITY CONTACTS**

**WISCONSIN DNR**  
 BRAD BETTHAUSER  
 DNR LIAISON  
 473 GRIFFITH DRIVE  
 WISCONSIN RAPIDS, WI 54494  
 (715) 421-7851  
 BRADLEY.BETTHAUSER@WISCONSIN.GOV

**CLARK COUNTY**  
 BRIAN DUELL  
 HIGHWAY COMMISSIONER  
 801 CLAY STREET  
 NEILLSVILLE, WI 54456  
 (715) 743-3680  
 BRIAN.DUELL@CO.CLARK.WI.US

**CITY OF LOYAL**  
 CARMEN ENGLEBRETSON  
 MAYOR  
 301 N. MAIN STREET  
 LOYAL, WI 54446  
 (715) 937-3738  
 STOUFAR@LOYALWI.COM

**DESIGN CONSULTANT**  
 ROSS JOHNSON, P.E.  
 CBS SQUARED, INC.  
 770 TECHNOLOGY WAY  
 CHIPPEWA FALLS, WI 54729  
 (715) 579-4175  
 RJOHNSON@CBSSQUAREDINC.COM

**WISDOT CONTACT**  
 MATTHEW THORNSEN, P.E.  
 LOCAL PROGRAM PROJECT MANAGER  
 718 W. CLAIREMONT AVE  
 EAU CLAIRE, WI 54701  
 (715) 225-4159  
 MATTHEW.THORNSEN@DOT.WI.GOV

**AT&T - DISTRIBUTION**  
 304 S. DEWEY STREET  
 EAU CLAIRE, WI 54701  
 RICK PODOLAK  
 (715) 839-5565 (OFFICE)  
 (715) 410-0656 (CELL)  
 RP4514@ATT.COM

**CHARTER COMMUNICATIONS**  
 503 E IVES ST. #316  
 MARSHFIELD, WI 54449  
 JESSE GRUNY  
 (715) 651-5605 (CELL)  
 (715) 898-1616 (OFFICE)  
 JESSE.GRUNY@CHARTER.COM

**CITY OF LOYAL**  
 301 N. MAIN STREET  
 LOYAL, WI 54446  
 TERRY WEYER  
 (715) 937-1266  
 VPIEPER@LOYALWI.COM

**CLARK ELECTRIC COOPERATIVE**  
 1209 W. DALL-BERG STREET  
 GREENWOOD, WI 54437  
 JOSH BURNS  
 (715) 267-6188 (OFFICE)  
 (715) 456-3364 (CELL)  
 JBURNS@CECOOP.COM

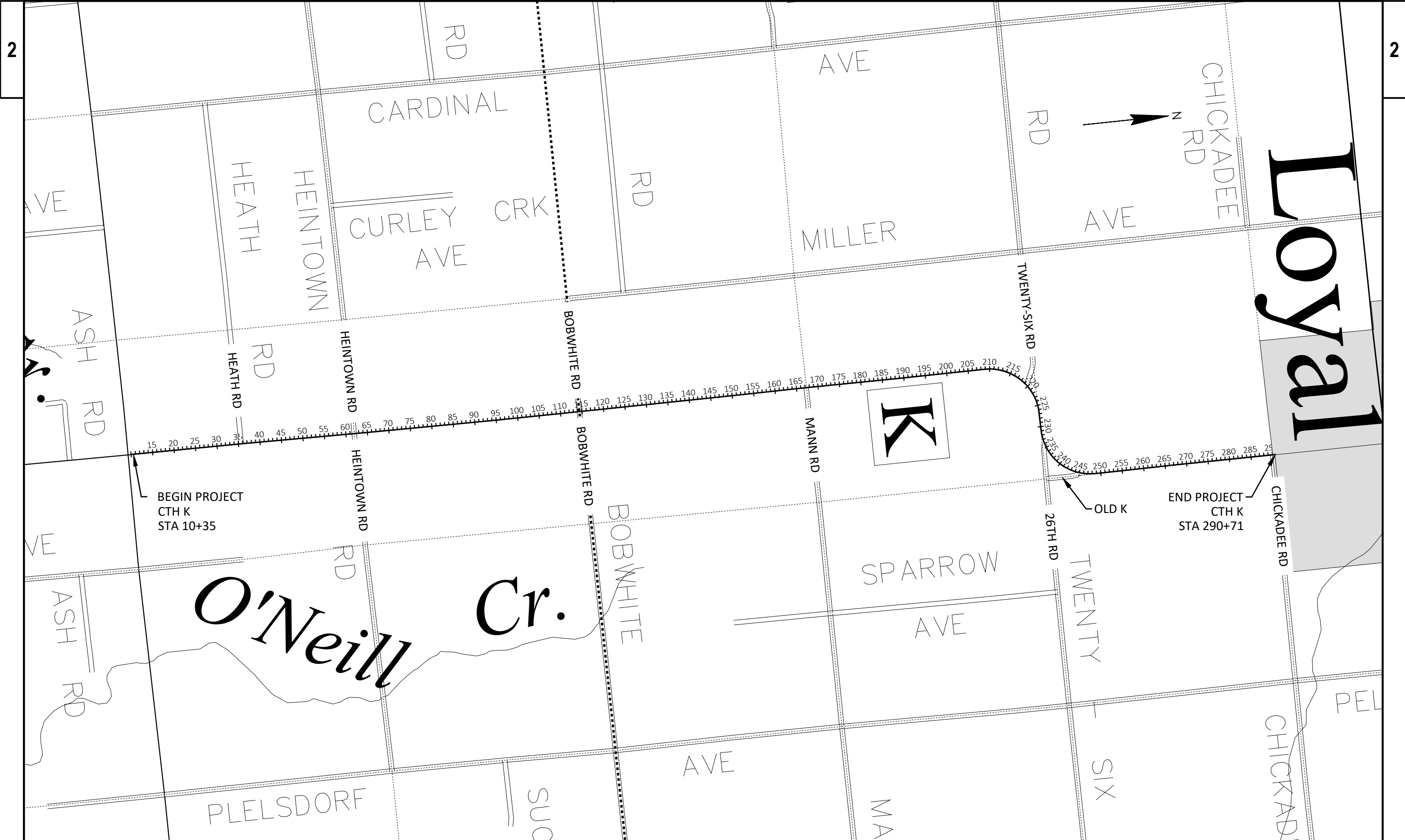
**FRONTIER COMMUNICATIONS**  
 118 DIVISION STREET  
 PLYMOUTH, WI 53073  
 RUSSELL RYAN  
 (902) 583-3275 (OFFICE)  
 (920) 737-9662 (CELL)  
 RUSSELL.W.RYAN@FTR.COM

**VIKING GAS TRANSMISSION**  
 2077 70TH AVE  
 OSCEOLA, WI 54020  
 STEVE KEILEN  
 (715) 417-0735 (CELL)  
 (715) 294-2155 (OFFICE)  
 STEVEN.KEILEN@ONEOK.COM

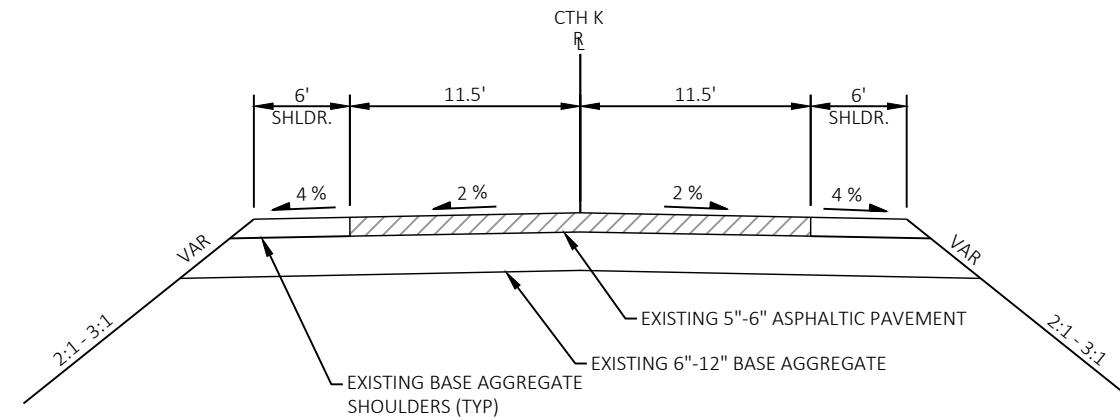
**WE ENERGIES - GAS**  
 1921 8TH STREET SOUTH  
 WISCONSIN RAPIDS, WI 54494  
 TRAVIS KAHL  
 (715) 421-7256 (OFFICE)  
 (715) 498-6180 (CELL)  
 TRAVIS.KAHL@WE-ENERGIES.COM

**XCEL ENERGY - ELECTRIC TRANSMISSION**  
 414 NICOLLET MALL 5TH FLOOR  
 MINNEAPOLIS, MN 55401  
 MITCHELL DIENGER  
 (608) 386-2233 (CELL)  
 (612) 321-3109 (OFFICE)  
 MITCHELLA.DIENGER@XCELENERGY.COM

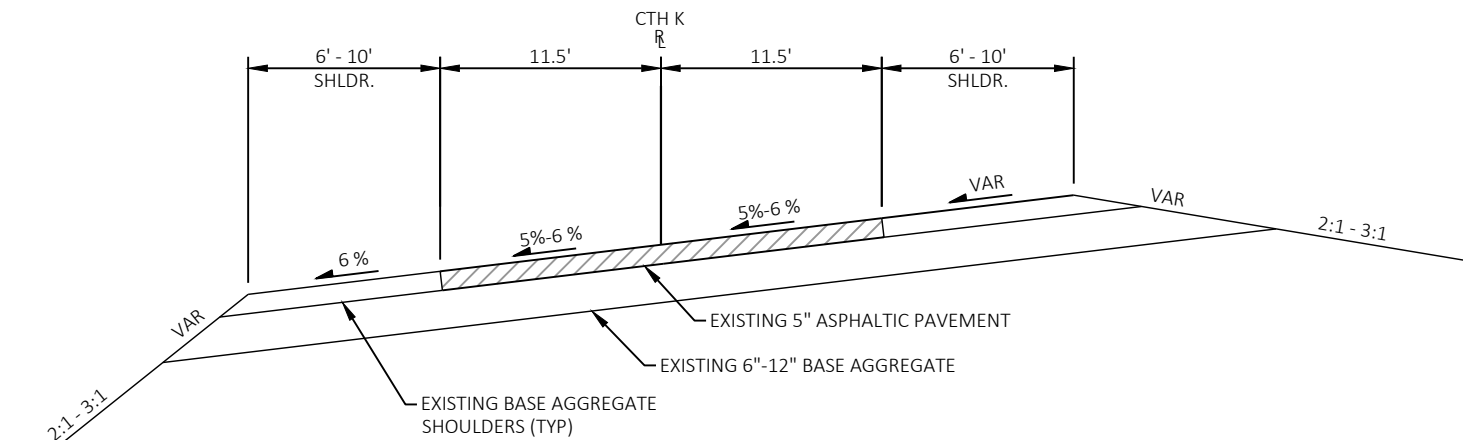
**XCEL ENERGY - ELECTRIC DISTRIBUTION**  
 500 N 5TH ST  
 ABBOTSFORD, WI 54405  
 PAMELA DENZINE  
 (715) 721-5050  
 PAMELA.DENZINE@XCELENERGY.COM



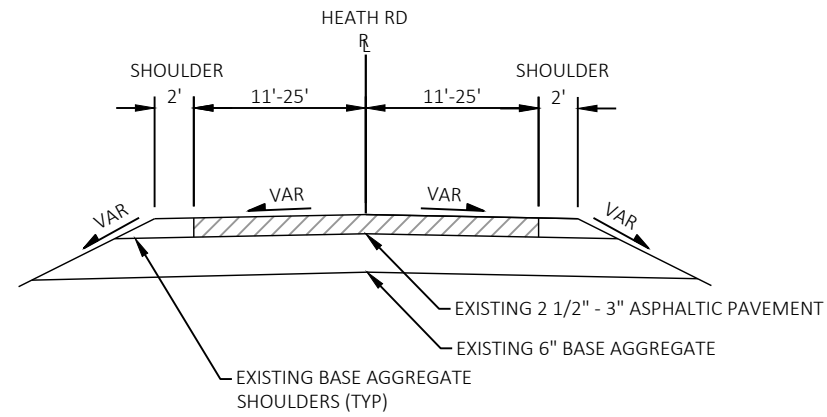
PROJECT NO: 7864-03-72	HWY: CTH K	COUNTY: CLARK	PROJECT OVERVIEW	SHEET E
------------------------	------------	---------------	------------------	---------



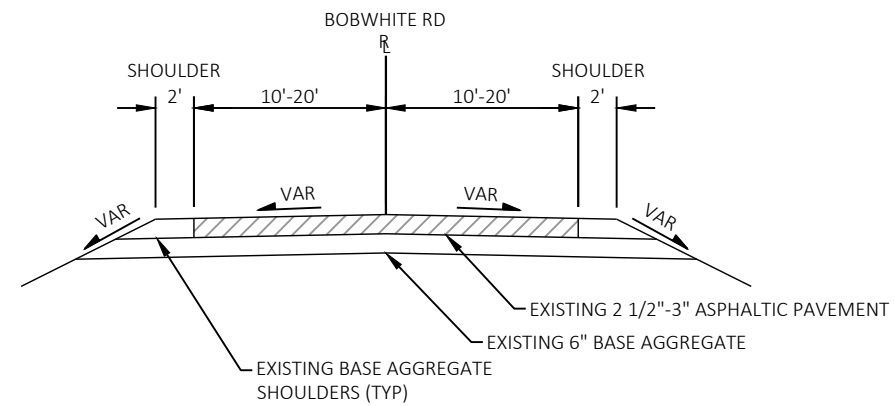
**TYPICAL EXISTING SECTION**  
 CTH K  
 STA 10+35 TO STA 207+64  
 STA 250+19 TO STA 290+71



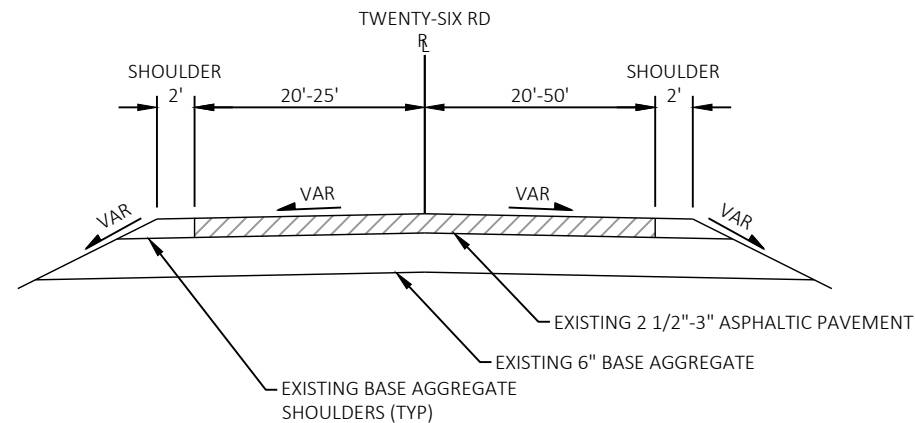
**TYPICAL EXISTING SECTION**  
 SUPERELEVATION  
 CTH K  
 CTH K STA 207+64 TO STA 250+19



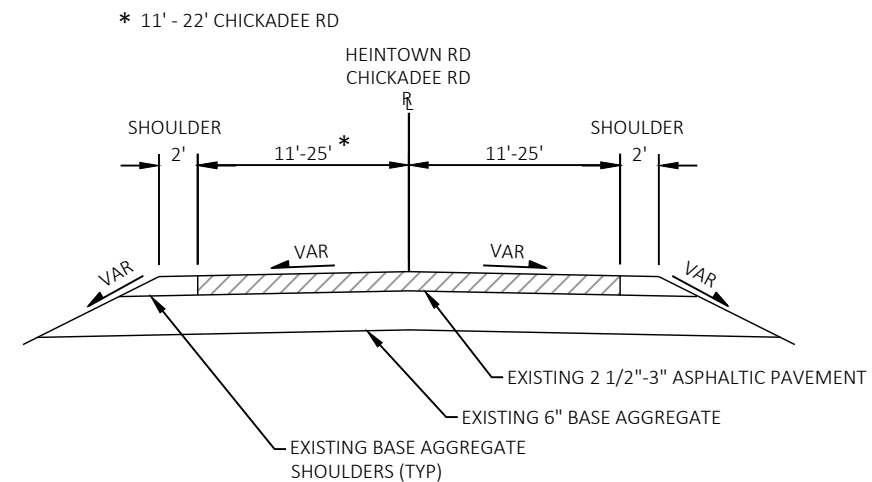
**TYPICAL EXISTING SECTION**  
 HEATH RD  
 STA 10+58 'A' TO STA 10+83 'A'



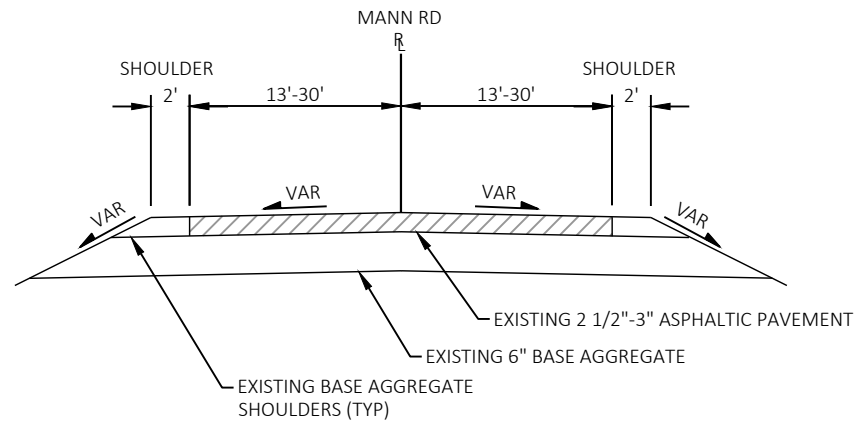
**TYPICAL EXISTING SECTION**  
 WEST BOBWHITE RD  
 STA 10+87 'D' TO STA 11+12 'D'  
 EAST BOBWHITE RD  
 STA 11+47 'D' TO STA 11+72 'D'



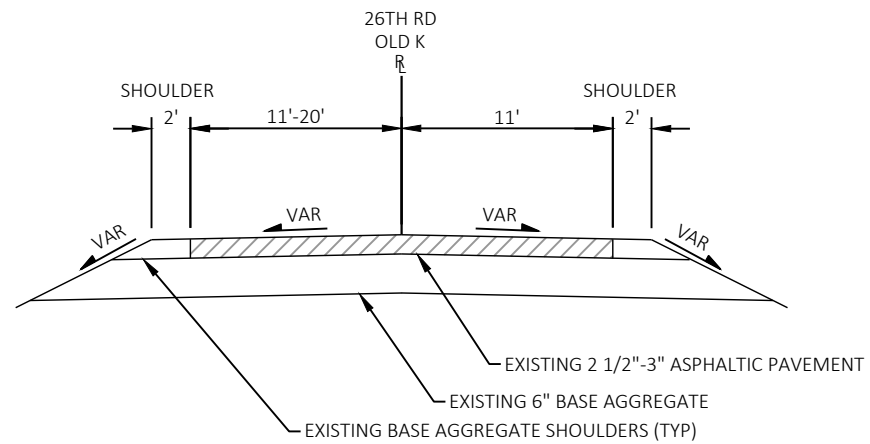
**TYPICAL EXISTING SECTION**  
 TWENTY-SIX RD  
 STA 11+45 'F' TO STA 11+70 'F'



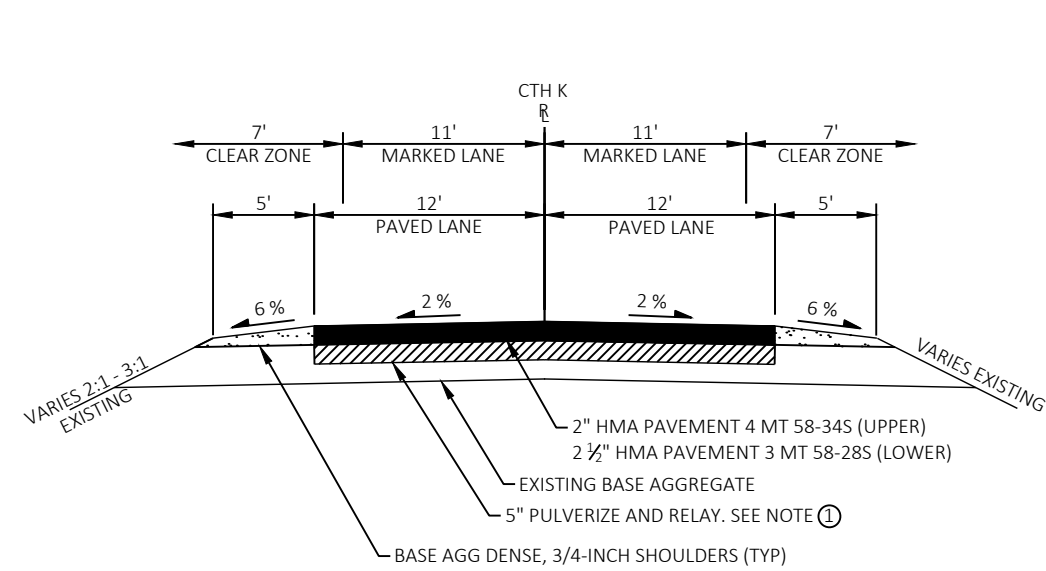
**TYPICAL EXISTING SECTION**  
 WEST HEINTOWN RD  
 STA 10+50 'B' TO STA 10+73 'B'  
 EAST HEINTOWN RD  
 STA 10+17 'C' TO STA 10+42 'C'  
 CHICKADEE RD  
 STA 10+25 'I' TO STA 10+50 'I'



**TYPICAL EXISTING SECTION**  
 MANN RD  
 STA 10+17 'E' TO STA 10+42 'E'

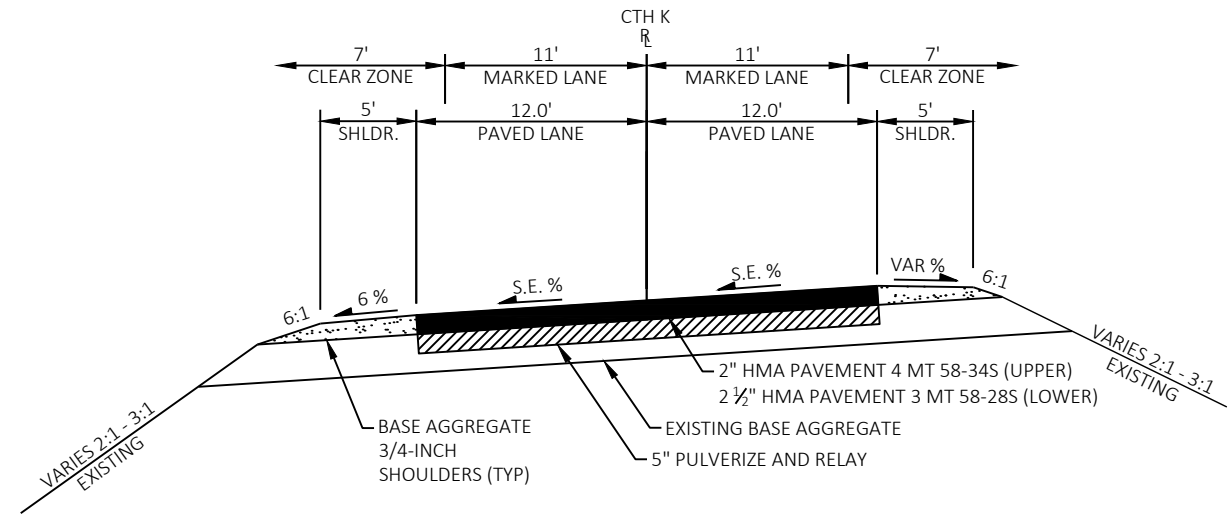


**TYPICAL EXISTING SECTION**  
 26TH RD  
 STA 10+65 'G' TO STA 10+92 'G'  
 OLD K  
 STA 107+00 'H' TO STA 107+25 'H'

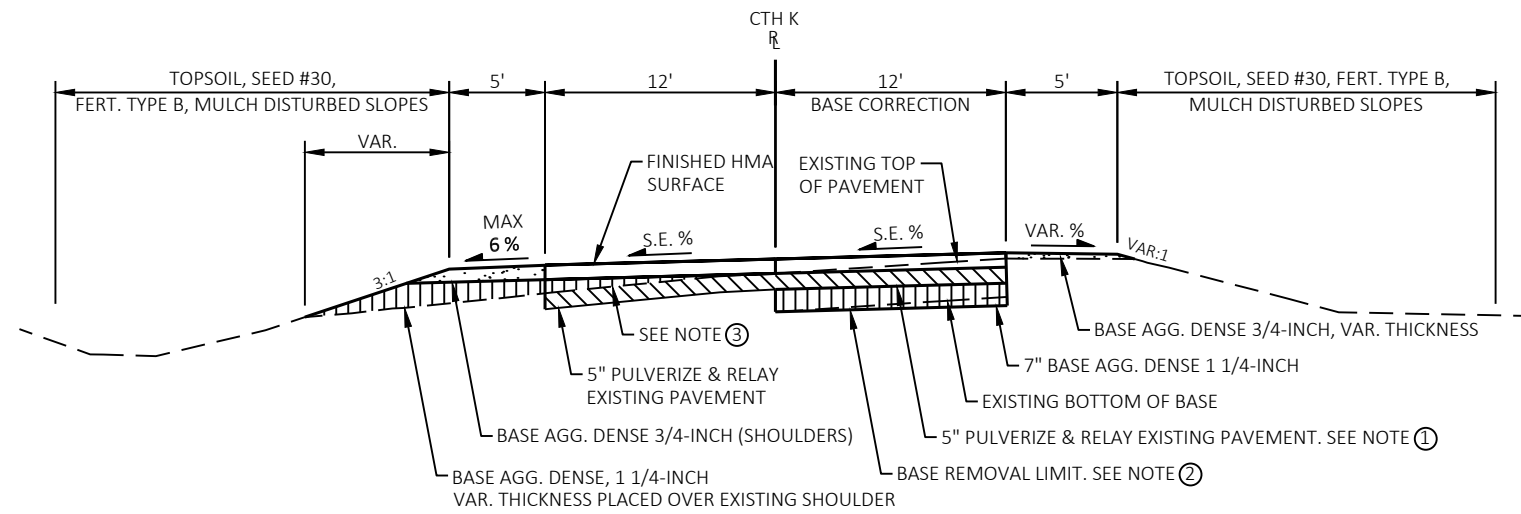


**TYPICAL FINISHED SECTION**  
 CTH K  
 STA 10+35 TO STA 207+64  
 STA 250+19 TO STA 290+71

NOTE ①: INCLUDE EXISTING INTERSECTION TAPERS.  
 SEE INTERSECTION DETAIL SHEETS.



**TYPICAL FINISHED SECTION**  
 SUPERELEVATION  
 CTH K  
 STA 207+64 TO STA 250+19

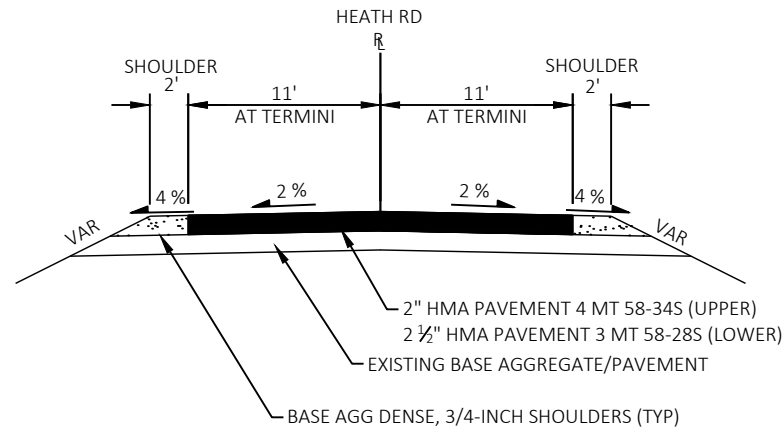


**TYPICAL FINISHED SECTION**  
 SUPERELEVATION TRANSITION CORRECTION  
 CTH K  
 STA 248+50 TO STA 251+00

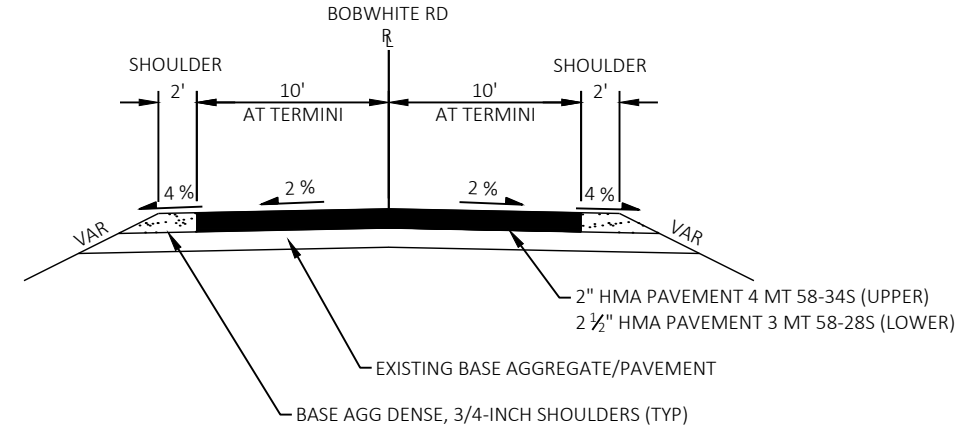
NOTE ①: RESTORE PULVERIZED MATERIAL AFTER BASE CORRECTION.  
 PULVERIZING, WINDROWING, AND RESTORING EXISTING  
 PAVEMENT MATERIAL IS INCIDENTAL TO PULVERIZE AND RELAY  
 AND IS NOT INCLUDED IN EXCAVATION COMMON.

NOTE ②: PAID AS EXCAVATION COMMON. SEE CROSS SECTIONS

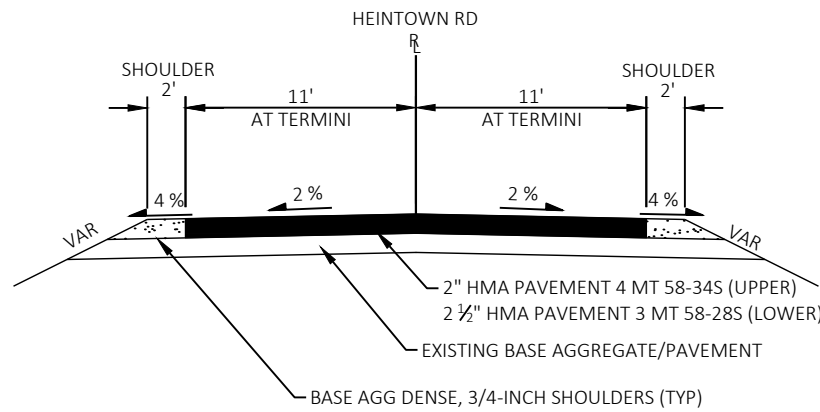
NOTE ③: BASE AGGREGATE DENSE 1 1/4-INCH WEDGING AS REQ'D.  
 BLEND WITH PULVERIZED MATERIAL.



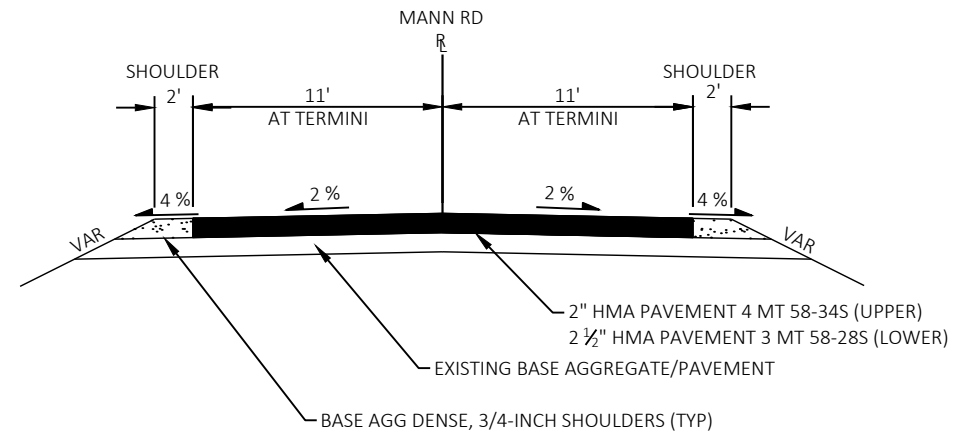
**TYPICAL FINISHED SECTION**  
 HEATH RD  
 STA 10+58 'A' TO STA 10+83 'A'



**TYPICAL FINISHED SECTION**  
 WEST BOBWHITE RD  
 STA 10+87 'D' TO STA 11+12 'D'  
 EAST BOBWHITE RD STA  
 STA 11+47 'D' TO STA 11+72 'D'

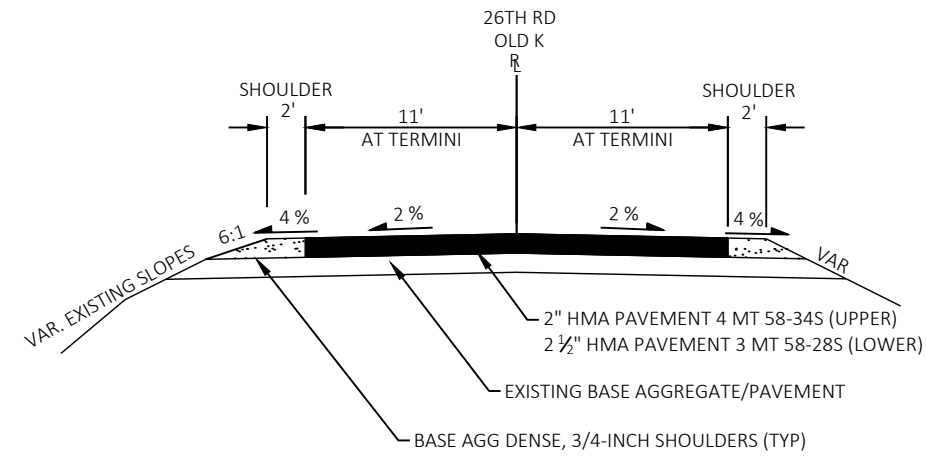


**TYPICAL FINISHED SECTION**  
 WEST HEINTOWN RD  
 STA 10+50 'B' TO STA 10+73 'B'  
 EAST HEINTOWN RD  
 STA 10+17 'C' TO STA 10+42 'C'



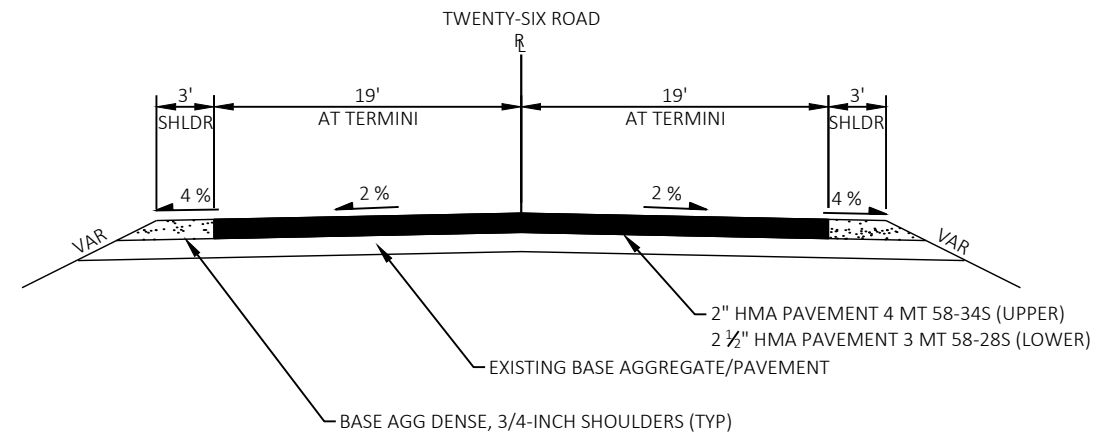
**TYPICAL FINISHED SECTION**  
 MANN RD  
 STA 10+17 'E' TO STA 10+42 'E'





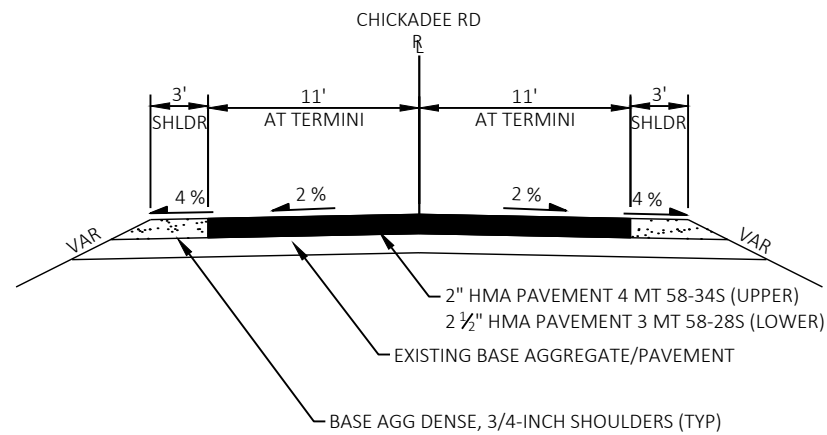
**TYPICAL FINISHED SECTION**

26TH RD  
STA 10+65 'G' TO STA 10+92 'G'  
OLD K  
STA 107+00 'H' TO STA 107+25 'H'



**TYPICAL FINISHED SECTION**

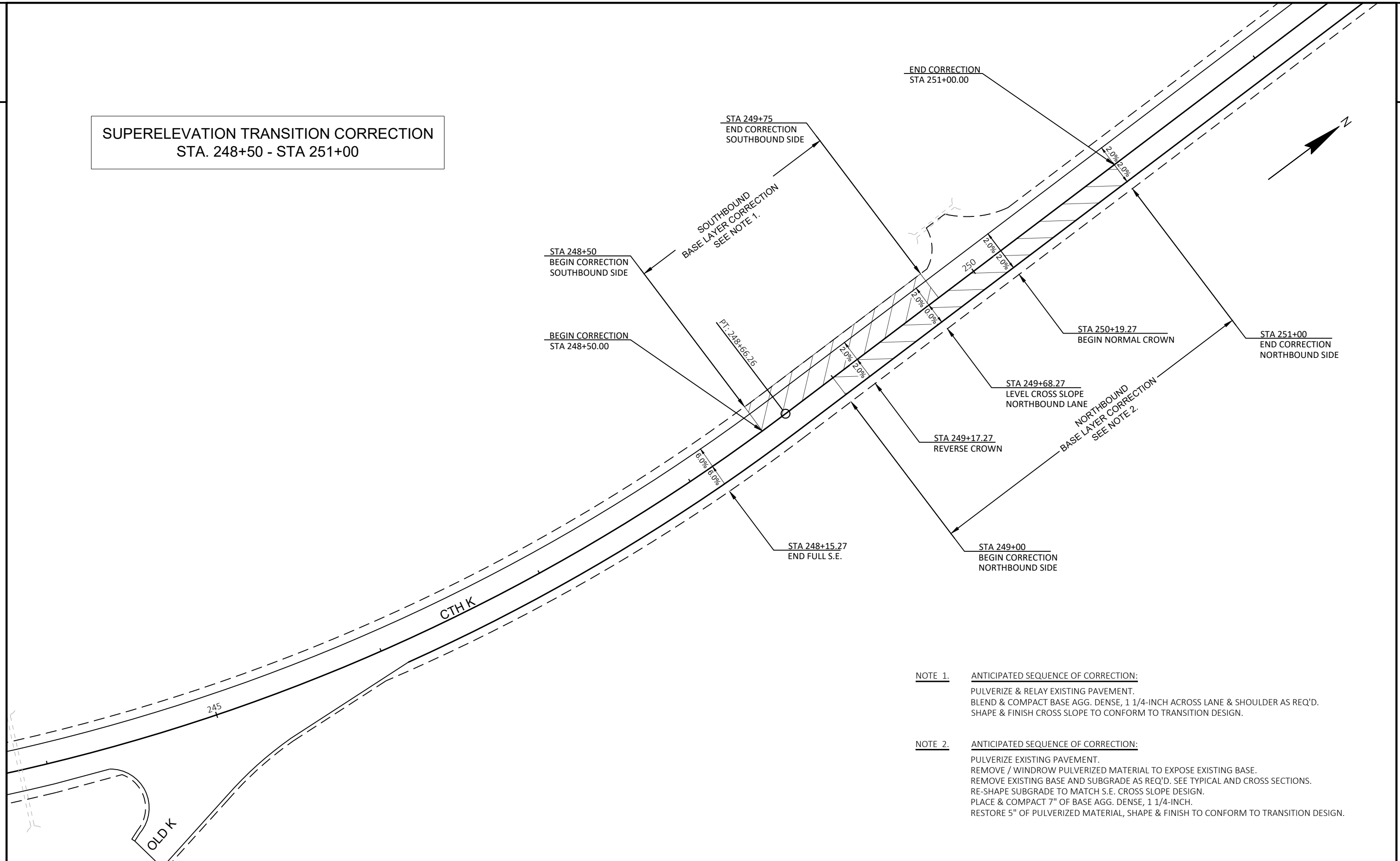
TWENTY-SIX ROAD  
STA 11+45 'F' TO STA 11+70 'F'



**TYPICAL FINISHED SECTION**

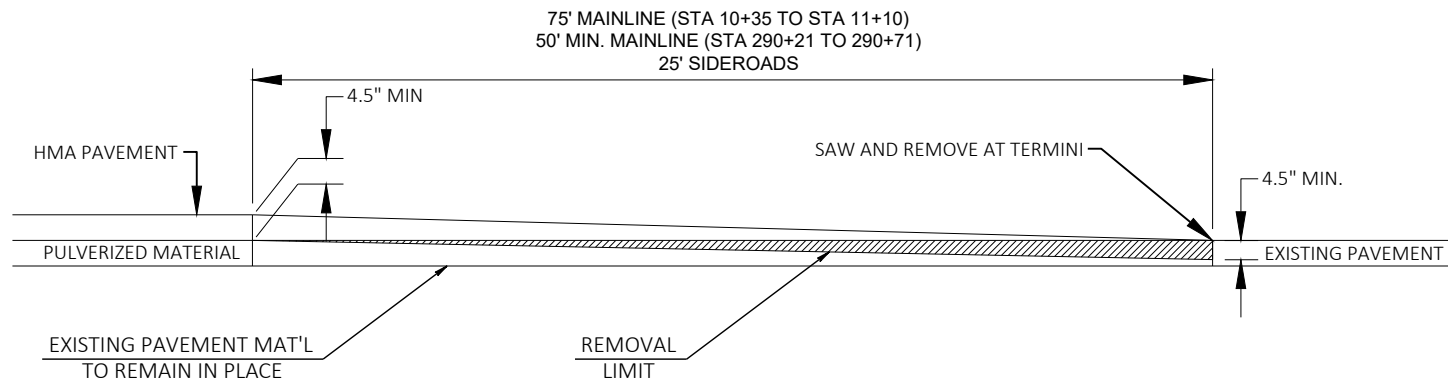
CHICKADEE RD  
STA 10+25 'I' TO STA 10+50 'I'

**SUPERELEVATION TRANSITION CORRECTION**  
**STA. 248+50 - STA 251+00**



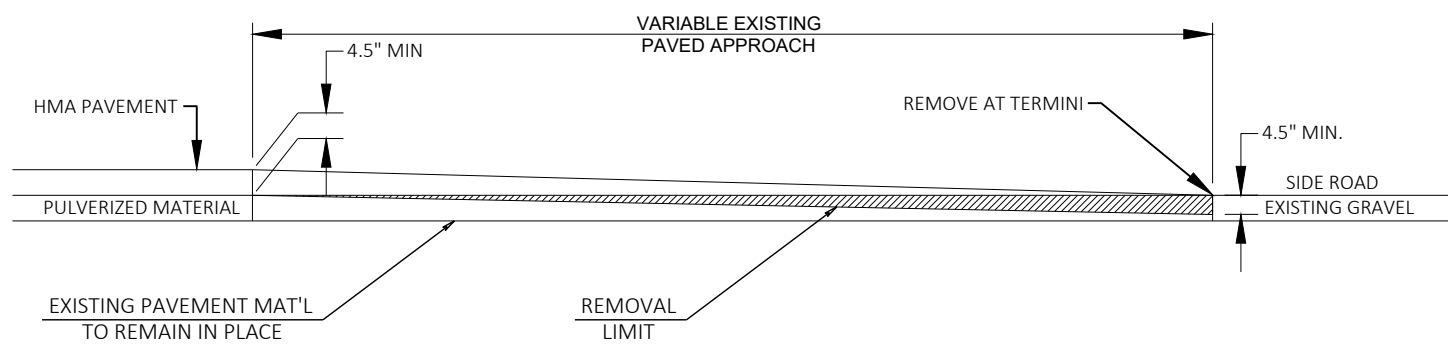
- NOTE 1. ANTICIPATED SEQUENCE OF CORRECTION:**  
 PULVERIZE & RELAY EXISTING PAVEMENT.  
 BLEND & COMPACT BASE AGG. DENSE, 1 1/4-INCH ACROSS LANE & SHOULDER AS REQ'D.  
 SHAPE & FINISH CROSS SLOPE TO CONFORM TO TRANSITION DESIGN.
- NOTE 2. ANTICIPATED SEQUENCE OF CORRECTION:**  
 PULVERIZE EXISTING PAVEMENT.  
 REMOVE / WINDROW PULVERIZED MATERIAL TO EXPOSE EXISTING BASE.  
 REMOVE EXISTING BASE AND SUBGRADE AS REQ'D. SEE TYPICAL AND CROSS SECTIONS.  
 RE-SHAPE SUBGRADE TO MATCH S.E. CROSS SLOPE DESIGN.  
 PLACE & COMPACT 7" OF BASE AGG. DENSE, 1 1/4-INCH.  
 RESTORE 5" OF PULVERIZED MATERIAL, SHAPE & FINISH TO CONFORM TO TRANSITION DESIGN.

PROJECT NO: 7864-03-72	HWY: CTH K	COUNTY: CLARK	CONSTRUCTION DETAILS	SHEET	<b>E</b>
------------------------	------------	---------------	----------------------	-------	----------



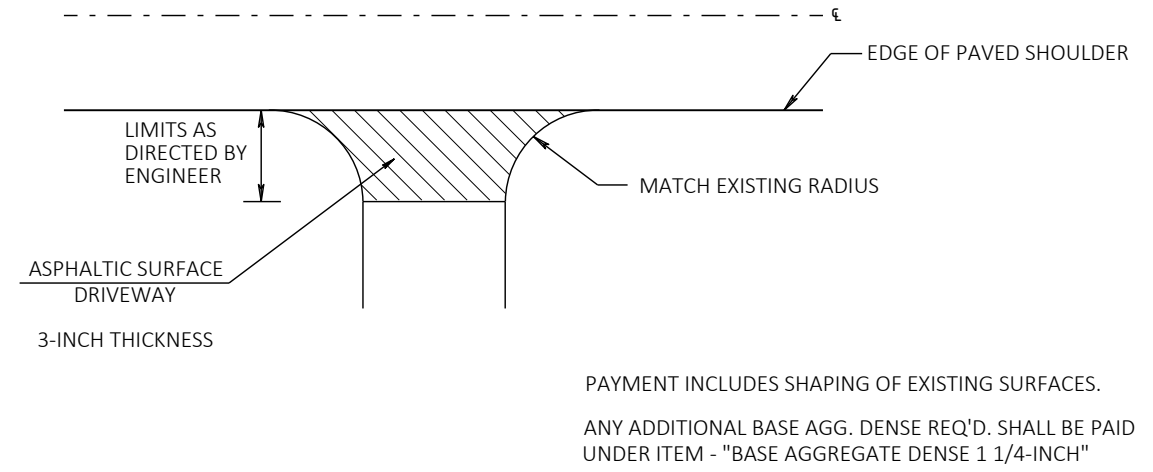
**REMOVING ASPHALTIC SURFACE, BUTT JOINT**

- ▨ REMOVING ASPHALTIC SURFACE BUTT JOINTS
- STA 10+35 - STA 11+10, CTH K
- STA 290+21 - STA 290+71, CTH K
- STA 11+45 'F' - STA 11+70 'F', TWENTY-SIX ROAD
- STA 10+65 'G' - STA 10+92 'G', 26TH ROAD
- STA 107+00 'H' - STA 107+25 'H', OLD K

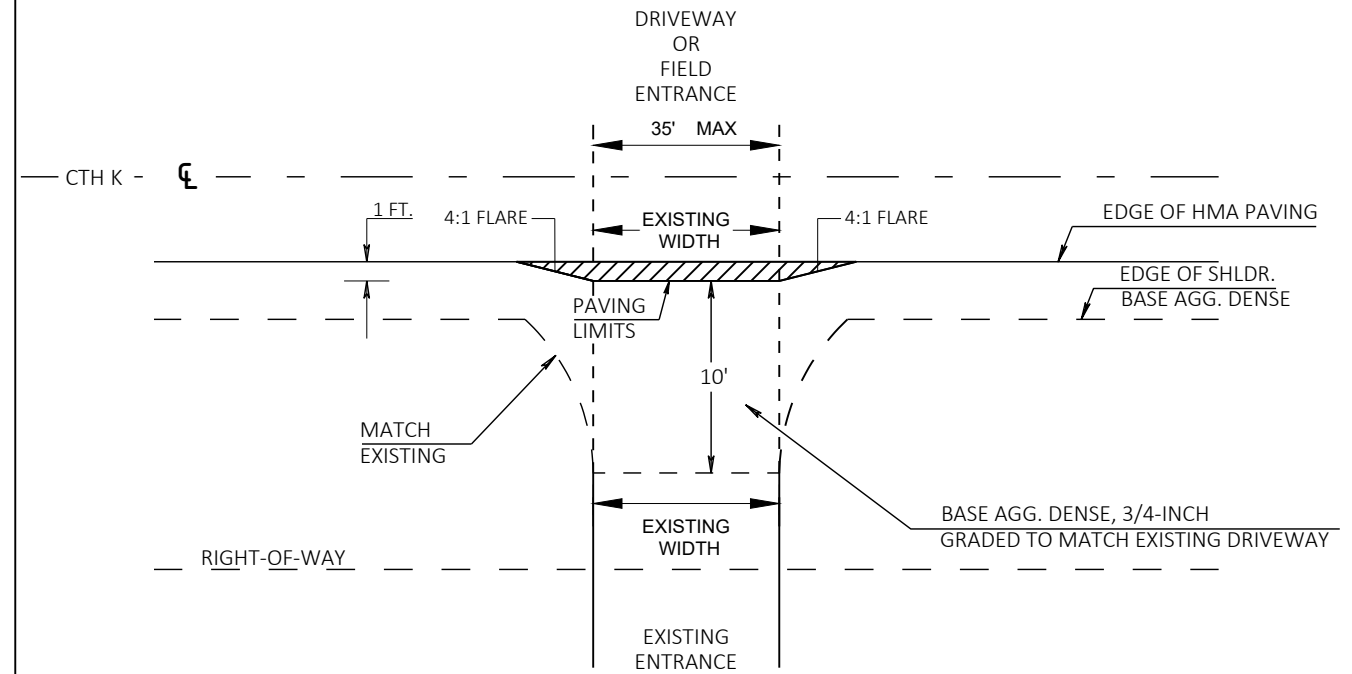


**REMOVING ASPHALTIC SURFACE**

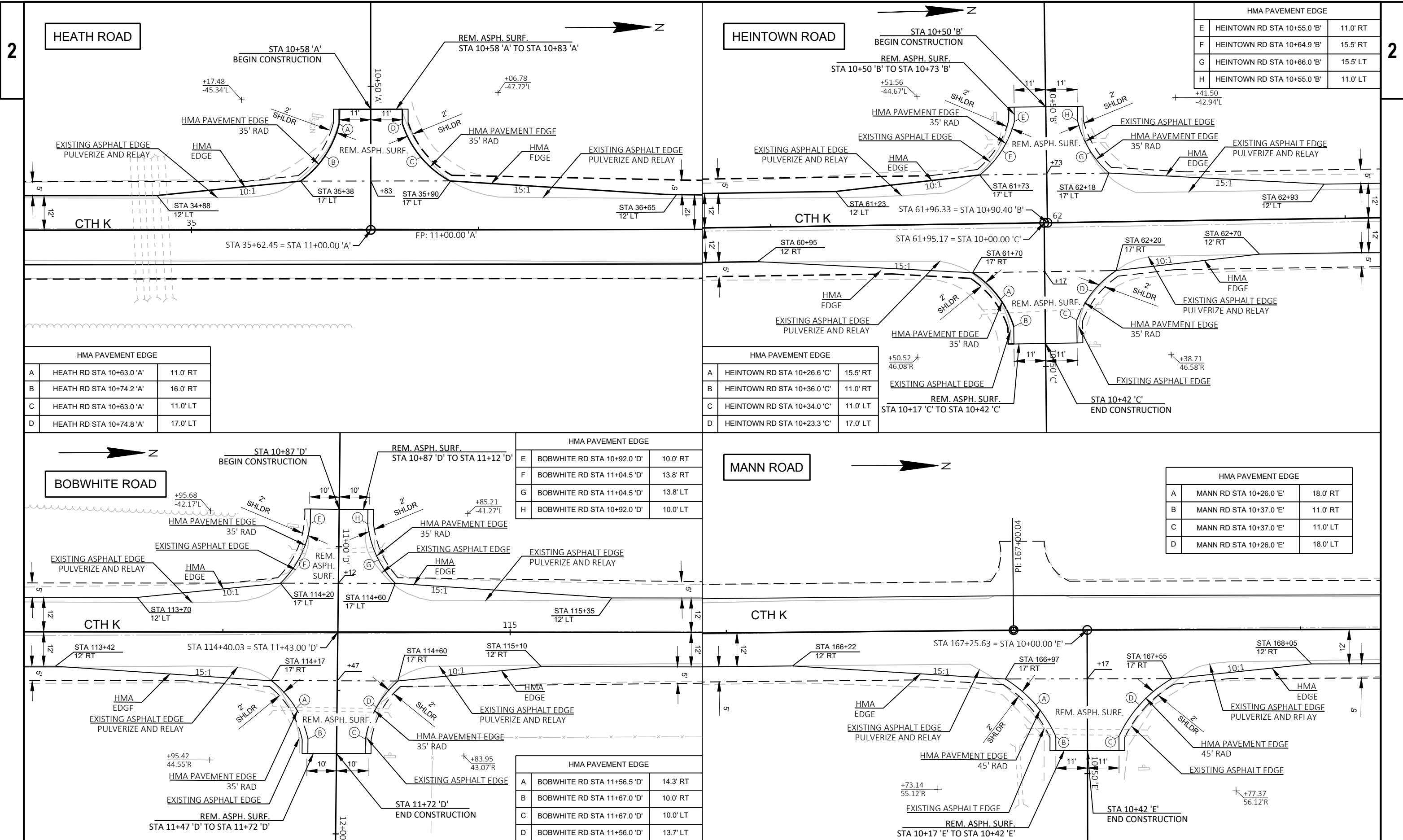
- ▨ REMOVING ASPHALTIC SURFACE
- SIDE ROAD APPROACHES
- HEATH RD
- HEINTOWN RD
- BOBWHITE RD
- MANN RD
- CHICKADEE RD



**RURAL DRIVEWAY DETAIL - ASPHALT**



**RURAL DRIVEWAY OR FIELD ENTRANCE - AGGREGATE**



HMA PAVEMENT EDGE		
A	HEATH RD STA 10+63.0 'A'	11.0' RT
B	HEATH RD STA 10+74.2 'A'	16.0' RT
C	HEATH RD STA 10+63.0 'A'	11.0' LT
D	HEATH RD STA 10+74.8 'A'	17.0' LT

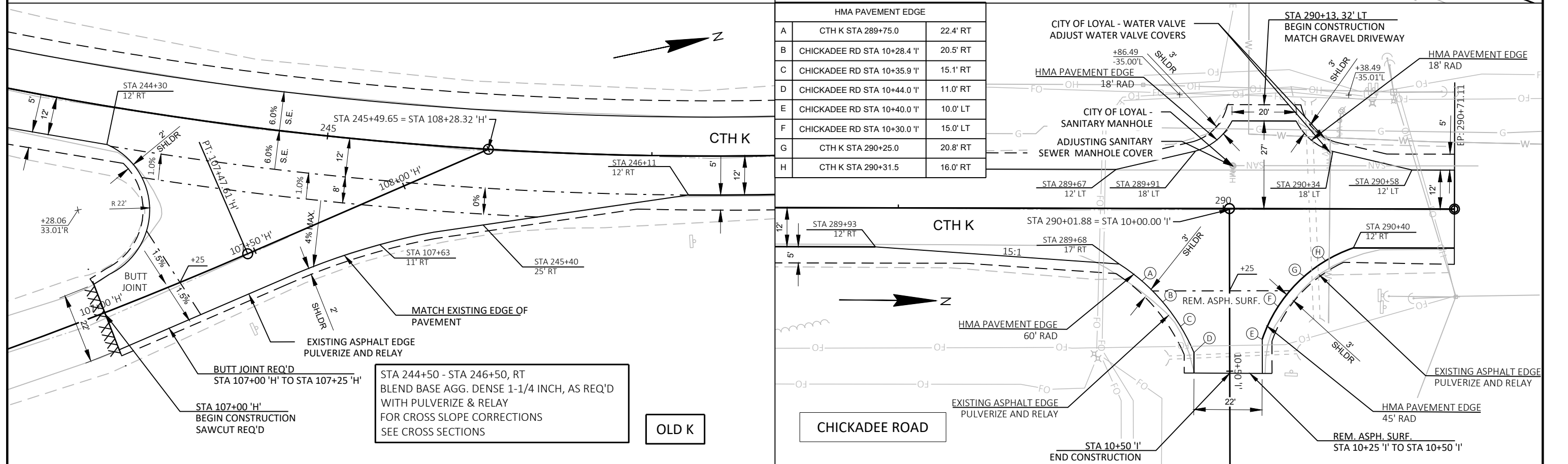
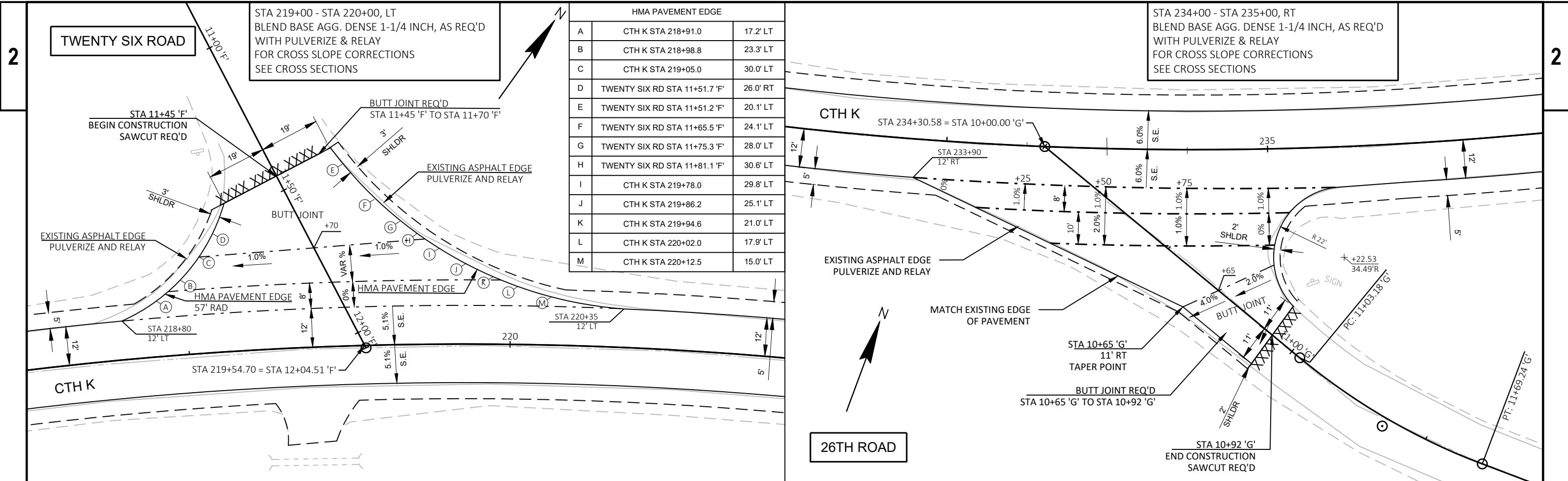
HMA PAVEMENT EDGE		
E	HEINTOWN RD STA 10+55.0 'B'	11.0' RT
F	HEINTOWN RD STA 10+64.9 'B'	15.5' RT
G	HEINTOWN RD STA 10+66.0 'B'	15.5' LT
H	HEINTOWN RD STA 10+55.0 'B'	11.0' LT

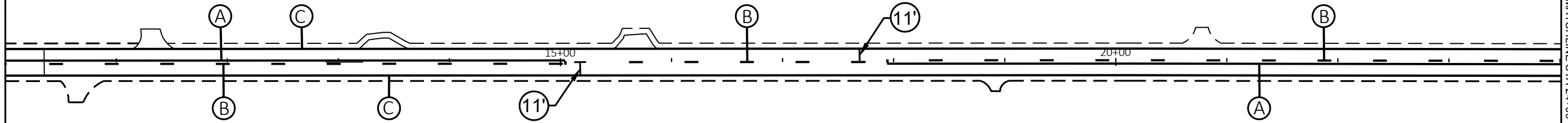
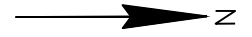
HMA PAVEMENT EDGE		
A	HEINTOWN RD STA 10+26.6 'C'	15.5' RT
B	HEINTOWN RD STA 10+36.0 'C'	11.0' RT
C	HEINTOWN RD STA 10+34.0 'C'	11.0' LT
D	HEINTOWN RD STA 10+23.3 'C'	17.0' LT

HMA PAVEMENT EDGE		
E	BOBWHITE RD STA 10+92.0 'D'	10.0' RT
F	BOBWHITE RD STA 11+04.5 'D'	13.8' RT
G	BOBWHITE RD STA 11+04.5 'D'	13.8' LT
H	BOBWHITE RD STA 10+92.0 'D'	10.0' LT

HMA PAVEMENT EDGE		
A	MANN RD STA 10+26.0 'E'	18.0' RT
B	MANN RD STA 10+37.0 'E'	11.0' RT
C	MANN RD STA 10+37.0 'E'	11.0' LT
D	MANN RD STA 10+26.0 'E'	18.0' LT

HMA PAVEMENT EDGE		
A	BOBWHITE RD STA 11+56.5 'D'	14.3' RT
B	BOBWHITE RD STA 11+67.0 'D'	10.0' RT
C	BOBWHITE RD STA 11+67.0 'D'	10.0' LT
D	BOBWHITE RD STA 11+56.0 'D'	13.7' LT

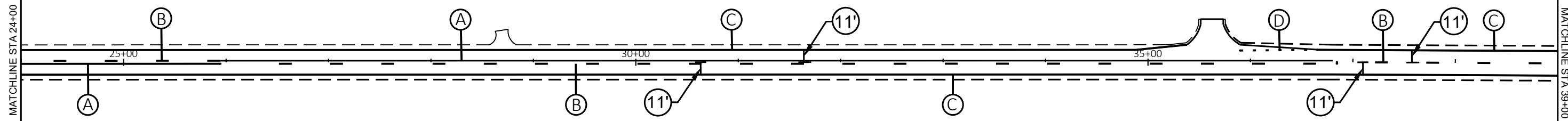
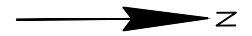




**MARKING LEGEND**

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

MATCHLINE STA 24+00

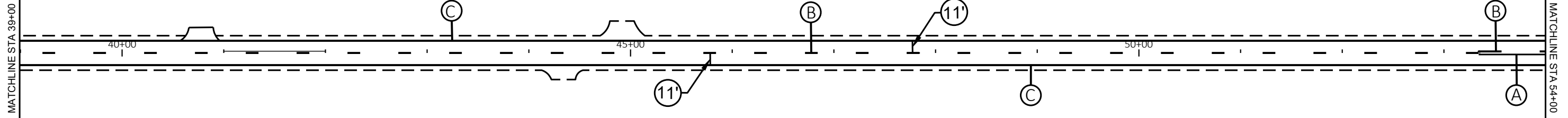
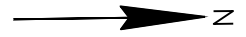


**MARKING LEGEND**

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

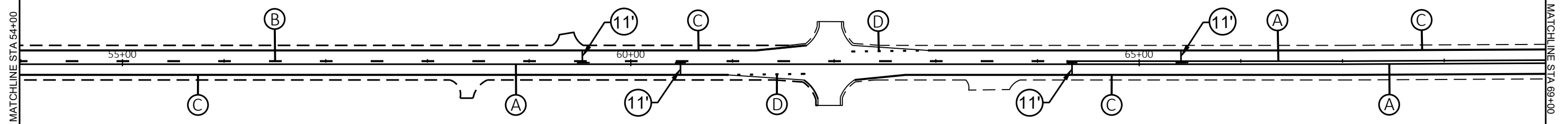
MATCHLINE STA 24+00

MATCHLINE STA 39+00



MARKING LEGEND

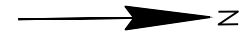
- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



MARKING LEGEND

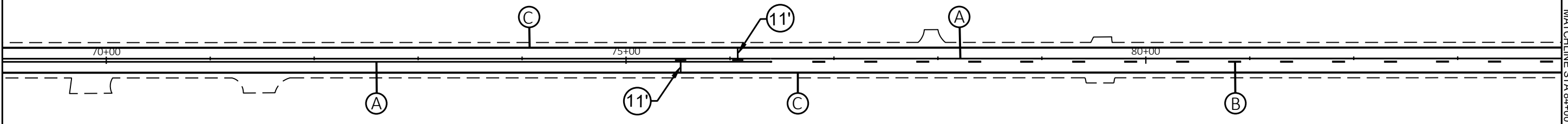
- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

PROJECT NO: 7864-03-72	HWY: CTH K	COUNTY: CLARK	PAVEMENT MARKING	SHEET	<b>E</b>
------------------------	------------	---------------	------------------	-------	----------



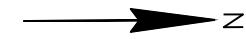
MATCHLINE STA 69+00

MATCHLINE STA 84+00



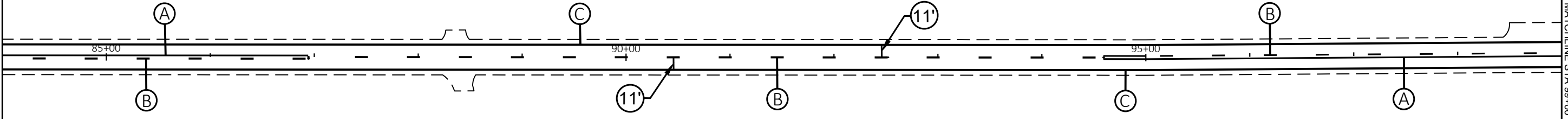
MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



MATCHLINE STA 84+00

MATCHLINE STA 99+00



MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

PROJECT NO: 7864-03-72

HWY: CTH K

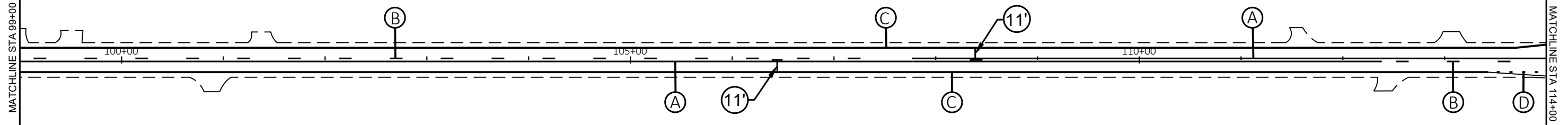
COUNTY: CLARK

PAVEMENT MARKING

SHEET

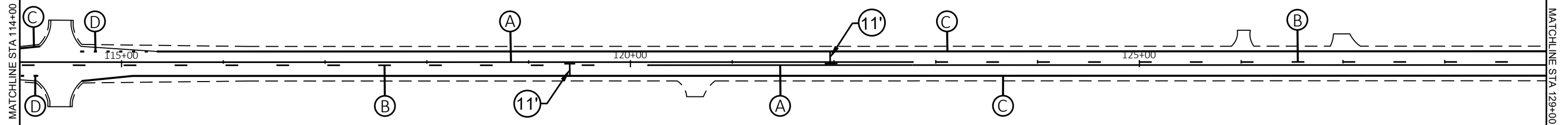
E





MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

PROJECT NO: 7864-03-72

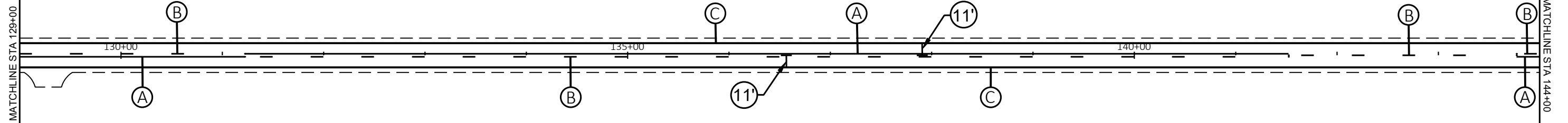
HWY: CTH K

COUNTY: CLARK

PAVEMENT MARKING

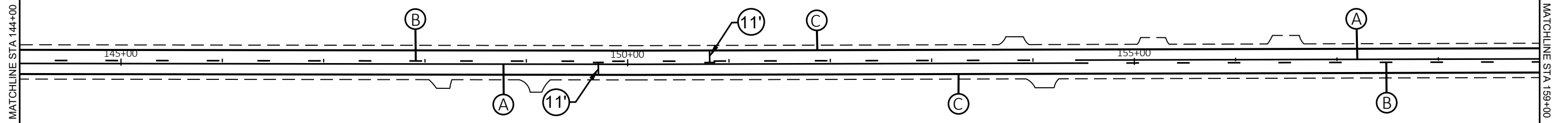
SHEET

E



MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

PROJECT NO: 7864-03-72

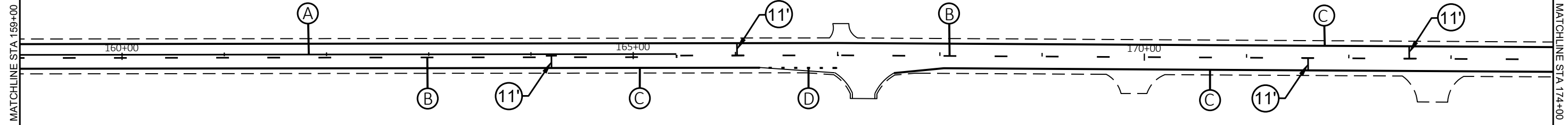
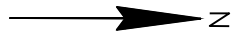
HWY: CTH K

COUNTY: CLARK

PAVEMENT MARKING

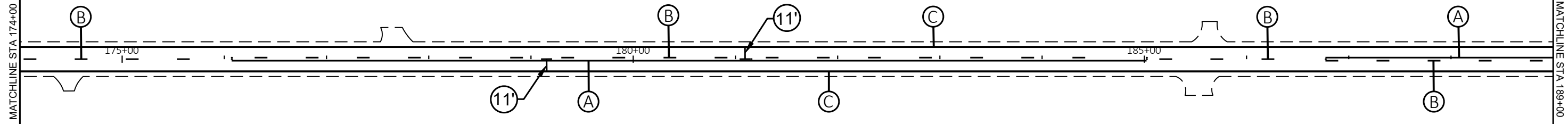
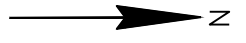
SHEET

E



MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

PROJECT NO: 7864-03-72

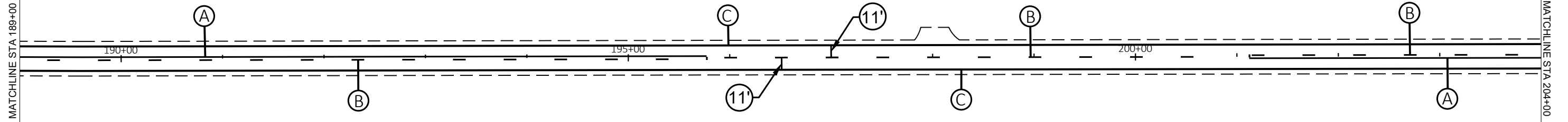
HWY: CTH K

COUNTY: CLARK

PAVEMENT MARKING

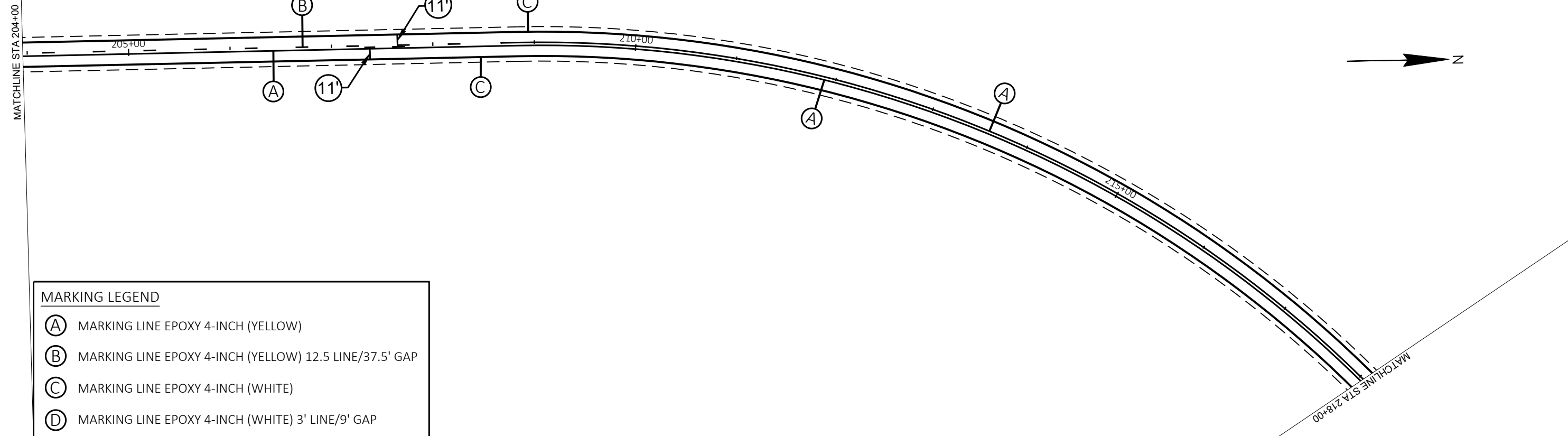
SHEET

E



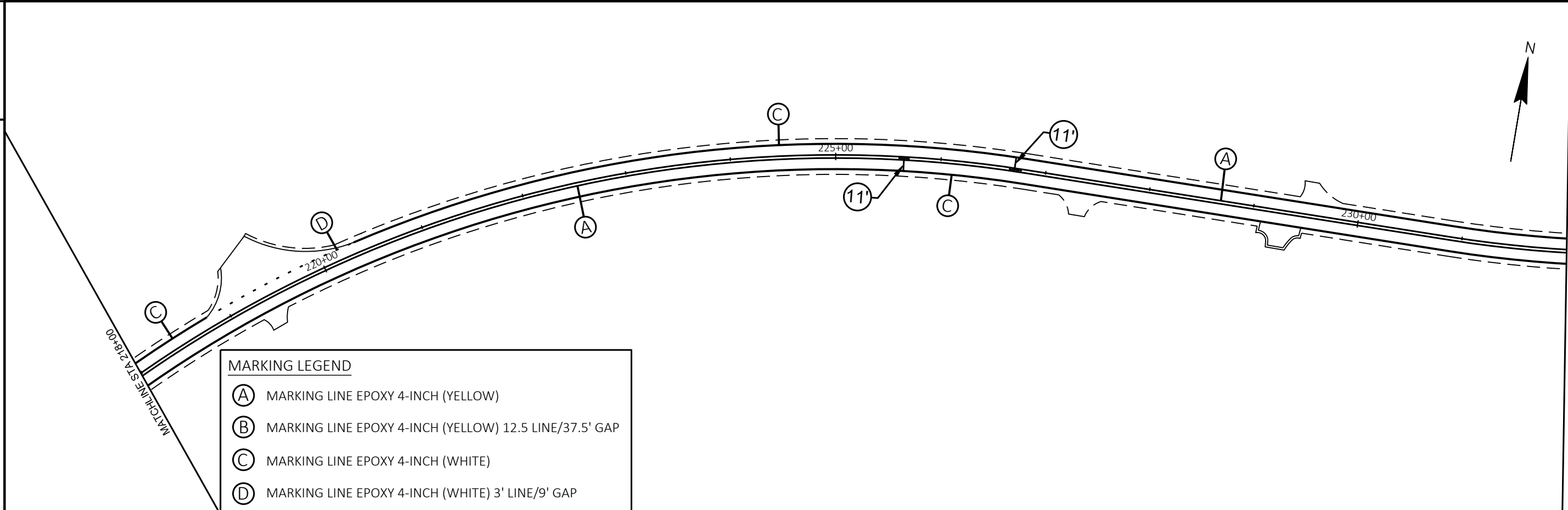
MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



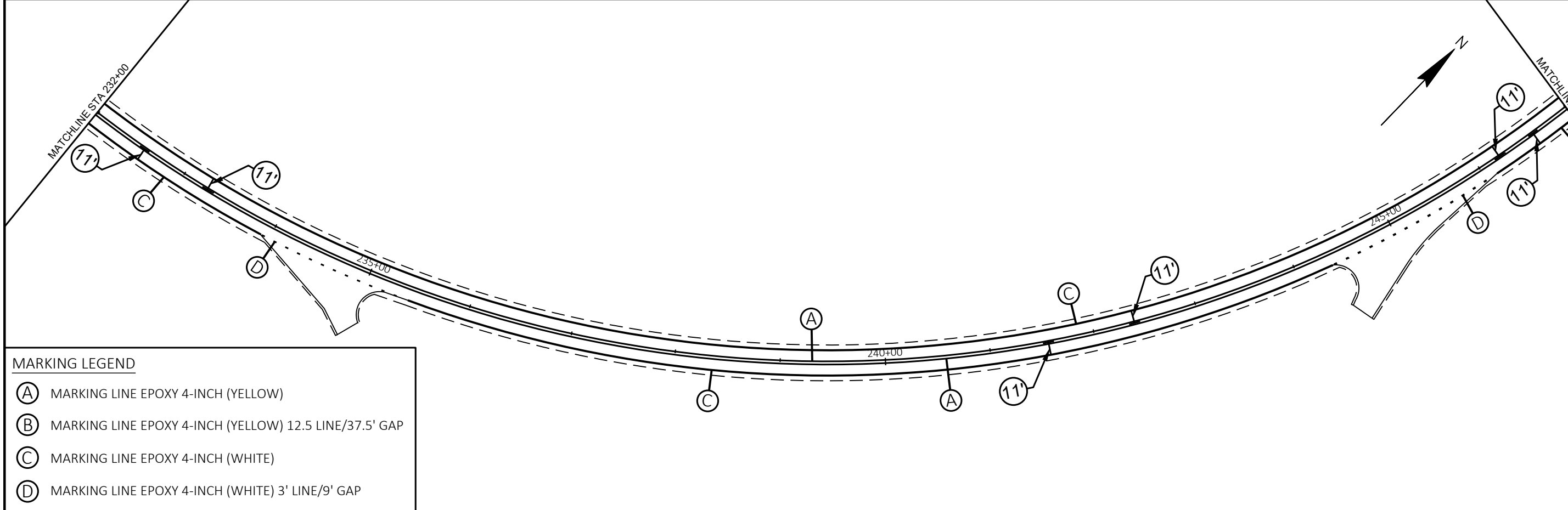
MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



**MARKING LEGEND**

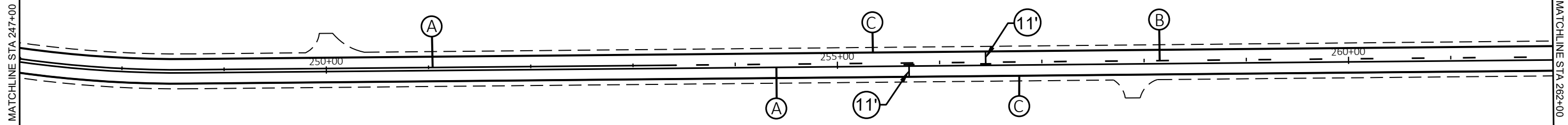
- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



**MARKING LEGEND**

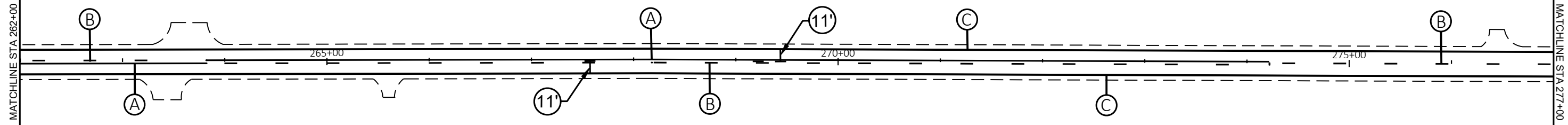
- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

PROJECT NO: 7864-03-72	HWY: CTH K	COUNTY: CLARK	PAVEMENT MARKING	SHEET	<b>E</b>
------------------------	------------	---------------	------------------	-------	----------



MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

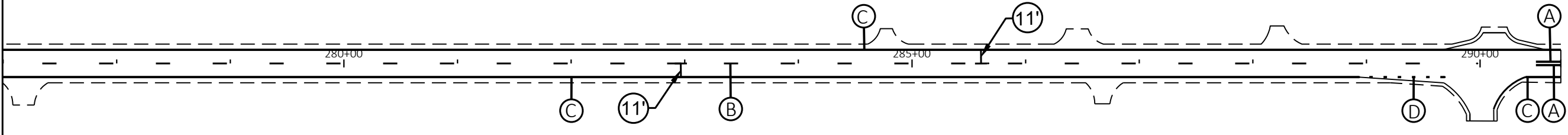


MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



MATCHLINE STA 277+00

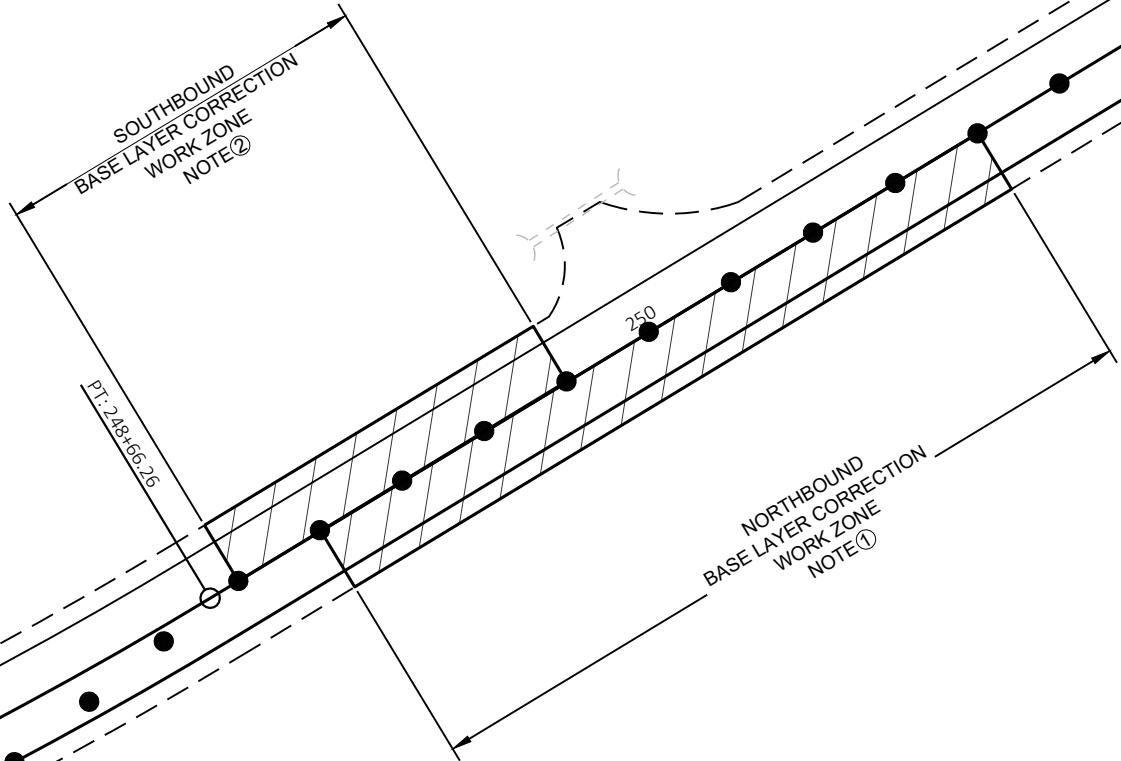
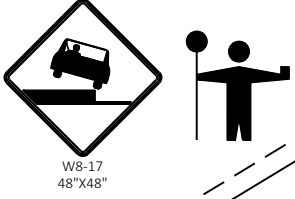


MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5 LINE/37.5' GAP
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP

**SUPERELEVATION TRANSITION CORRECTION**  
 STA. 248+50 - STA 251+00

APPLICABLE STANDARD DETAIL DRAWINGS:  
 S.D.D 15C12: TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION  
 S.D.D 15D39: TRAFFIC CONTROL, DROP-OFF SIGNING



**NOTES**

- 1. NORTHBOUND DRUM PLACEMENT SHOWN, MIRROR FOR SOUTHBOUND.
- 2. MAINTAIN ACCESS TO PRIVATE DRIVEWAY.



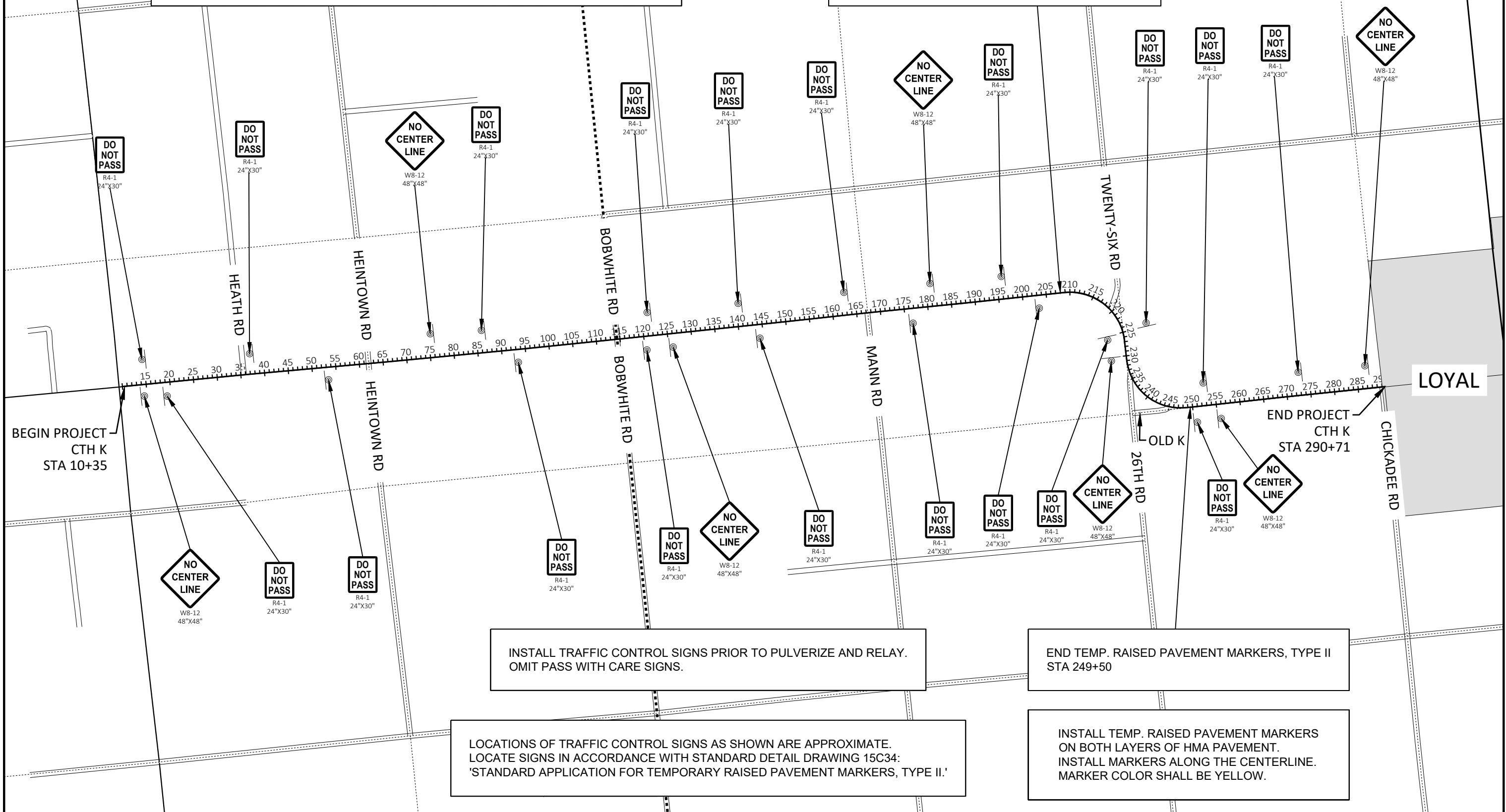
**LEGEND**

- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- TRAFFIC CONTROL DRUM @ 25' SPACING



INSTALL TRAFFIC CONTROL SIGNS ACCORDING TO SDD 15C04 TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER UNDIVIDED ROAD OPEN TO TRAFFIC

BEGIN TEMP. RAISED PAVEMENT MARKERS, TYPE II STA 208+00



INSTALL TRAFFIC CONTROL SIGNS PRIOR TO PULVERIZE AND RELAY. OMIT PASS WITH CARE SIGNS.

END TEMP. RAISED PAVEMENT MARKERS, TYPE II STA 249+50

LOCATIONS OF TRAFFIC CONTROL SIGNS AS SHOWN ARE APPROXIMATE. LOCATE SIGNS IN ACCORDANCE WITH STANDARD DETAIL DRAWING 15C34: 'STANDARD APPLICATION FOR TEMPORARY RAISED PAVEMENT MARKERS, TYPE II.'

INSTALL TEMP. RAISED PAVEMENT MARKERS ON BOTH LAYERS OF HMA PAVEMENT. INSTALL MARKERS ALONG THE CENTERLINE. MARKER COLOR SHALL BE YELLOW.

Estimate Of Quantities

7864-03-72

Line	Item	Item Description	Unit	Total	Qty
0002	204.0110	Removing Asphaltic Surface	SY	856.000	856.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	619.000	619.000
0006	205.0100	Excavation Common	CY	93.000	93.000
0008	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 7864-03-72	LS	1.000	1.000
0010	213.0100	Finishing Roadway (project) 01. 7864-03-72	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,630.000	5,630.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	233.000	233.000
0016	325.0100	Pulverize and Relay	SY	75,590.000	75,590.000
0018	374.1020.S	QMP Pulverize and Relay Compaction	SY	74,427.000	74,427.000
0020	455.0605	Tack Coat	GAL	9,242.000	9,242.000
0022	460.2000	Incentive Density HMA Pavement	DOL	12,400.000	12,400.000
0024	460.6223	HMA Pavement 3 MT 58-28 S	TON	10,784.000	10,784.000
0026	460.6244	HMA Pavement 4 MT 58-34 S	TON	8,626.000	8,626.000
0028	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	13.000	13.000
0030	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7864-03-72	EACH	1.000	1.000
0032	619.1000	Mobilization	EACH	1.000	1.000
0034	624.0100	Water	MGAL	378.000	378.000
0036	625.0100	Topsoil	SY	111.000	111.000
0038	627.0200	Mulching	SY	111.000	111.000
0040	628.1504	Silt Fence	LF	200.000	200.000
0042	628.1520	Silt Fence Maintenance	LF	400.000	400.000
0044	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0046	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0048	629.0210	Fertilizer Type B	CWT	0.070	0.070
0050	630.0130	Seeding Mixture No. 30	LB	2.000	2.000
0052	630.0500	Seed Water	MGAL	2.000	2.000
0054	642.5001	Field Office Type B	EACH	1.000	1.000
0056	643.0300	Traffic Control Drums	DAY	32.000	32.000
0058	643.0900	Traffic Control Signs	DAY	2,908.000	2,908.000
0060	643.5000	Traffic Control	EACH	1.000	1.000
0062	646.1020	Marking Line Epoxy 4-Inch	LF	81,504.000	81,504.000
0064	648.0100	Locating No-Passing Zones	MI	5.300	5.300
0066	649.0770	Temporary Marking Raised Pavement Marker Type II	EACH	166.000	166.000
0068	650.4500	Construction Staking Subgrade	LF	200.000	200.000
0070	650.5000	Construction Staking Base	LF	300.000	300.000
0072	650.8000	Construction Staking Resurfacing Reference	LF	28,617.000	28,617.000
0074	650.9910	Construction Staking Supplemental Control (project) 01. 7864-03-72	LS	1.000	1.000
0076	690.0150	Sawing Asphalt	LF	216.000	216.000
0078	740.0440	Incentive IRI Ride	DOL	21,239.000	21,239.000
0080	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0082	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0084	SPV.0060	Special 01. Adjusting Sanitary Sewer Manhole Cover	EACH	1.000	1.000
0086	SPV.0060	Special 02. Adjusting Water Valve Cover	EACH	2.000	2.000

REMOVING PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	204.0110	204.0115	REMARKS
					REMOVING ASPHALTIC SURFACE SY	REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	
0010	10+35	-	11+10	CTH K	---	200	SOUTH LIMIT
0010	10+00	-	290+70	CTH K	297	---	PRIVATE DRIVEWAYS
0010	10+58 'A'	-	10+83 'A'	HEATH RD	87	---	HEATH RD
0010	10+50 'B'	-	10+73 'B'	HEINTOWN RD	76	---	HEINTOWN RD (WEST)
0010	10+17 'C'	-	10+42 'C'	HEINTOWN RD	84	---	HEINTOWN RD (EAST)
0010	10+87 'D'	-	11+12 'D'	BOBWHITE RD	72	---	BOBWHITE RD (WEST)
0010	11+47 'D'	-	11+72 'D'	BOBWHITE RD	74	---	BOBWHITE RD (EAST)
0010	10+17 'E'	-	10+42 'E'	MANN RD	92	---	MANN RD
0010	11+45 'F'	-	11+70 'F'	TWENTY-SIX RD	---	142	TWENTY-SIX RD
0010	10+65 'G'	-	10+92 'G'	26TH RD	---	71	26TH RD
0010	107+00 'H'	-	107+25 'H'	OLD K	---	61	OLD K
0010	10+25 'I'	-	10+50 'I'	CHICKADEE RD	74	---	CHICKADEE RD
0010	290+20	-	290+70	CTH K	---	145	NORTH LIMIT
TOTAL 0010					856	619	

PREPARE FOUNDATION

CATEGORY	STATION	TO	STATION	LOCATION	211.0100.01	REMARKS
					PREPARE FOUNDATION FOR ASPHALTIC PAVING 7864-03-02. 01 LS	
0010	10+35	-	290+71	CTH K	1	PROJECT LIMITS
TOTAL 0010					1	

DRIVEWAYS & FIELD ENTRANCES

\*  
305.0110  
BASE  
AGGREGATE  
DENSE 3/4-INCH

CATEGORY	STATION	LOCATION	TON
0010	10+55	CTH K, RT	12
0010	18+92	CTH K, RT	4
0010	20+78	CTH K, LT	8
0010	28+69	CTH K, LT	6
0010	44+35	CTH K, RT	8
0010	44+95	CTH K, LT	13
0010	58+42	CTH K, RT	10
0010	59+37	CTH K, LT	7
0010	63+53	CTH K, RT	12
0010	69+82	CTH K, RT	17
0010	71+46	CTH K, RT	16
0010	77+93	CTH K, LT	6
0010	79+56	CTH K, LT	3
0010	79+57	CTH K, LT	4
0010	88+37	CTH K, LT	6
0010	88+44	CTH K, RT	5
0010	98+78	CTH K, LT	23
0010	99+51	CTH K, LT	8
0010	100+90	CTH K, RT	10
0010	101+37	CTH K, LT	7
0010	111+54	CTH K, LT	8
0010	112+40	CTH K, RT	4
0010	113+07	CTH K, LT	7
0010	120+62	CTH K, RT	11
0010	126+03	CTH K, LT	7
0010	126+99	CTH K, LT	8
0010	129+28	CTH K, RT	14
0010	148+18	CTH K, RT	4
0010	149+10	CTH K, RT	6
0010	153+82	CTH K, LT	5
0010	154+11	CTH K, RT	3
0010	155+19	CTH K, LT	5
0010	156+50	CTH K, LT	7
0010	167+03	CTH K, LT	8
0010	169+90	CTH K, RT	20
0010	172+82	CTH K, RT	29
0010	174+48	CTH K, RT	7
0010	177+64	CTH K, LT	10
0010	185+53	CTH K, RT	16
0010	185+64	CTH K, LT	11
0010	198+02	CTH K, LT	12
0010	219+37	CTH K, RT	7
0010	227+35	CTH K, RT	12
0010	229+26	CTH K, RT	4
0010	229+51	CTH K, LT	11
0010	250+00	CTH K, LT	16
0010	257+89	CTH K, RT	6
0010	263+42	CTH K, RT	20
0010	263+64	CTH K, LT	28
0010	265+60	CTH K, RT	9
0010	276+45	CTH K, LT	11
0010	277+18	CTH K, RT	15
0010	284+75	CTH K, LT	8
0010	286+45	CTH K, LT	11
0010	286+68	CTH K, RT	11
0010	288+21	CTH K, LT	10
0010	290+13	CTH K, LT	9
TOTAL 0010			575

EXCAVATION COMMON

205.0100  
EXCAVATION  
COMMON

CATEGORY	STATION	TO	STATION	LOCATION	CY	REMARKS
0010	248+00	-	251+00	S.E. TRANSITION	93	
TOTAL 0010					93	

BASE AGGREGATE DENSE

\*  
305.0110      305.0120  
BASE  
AGGREGATE      BASE  
AGGREGATE      AGGREGATE  
DENSE 3/4-INCH      DENSE 1 1/4-  
INCH

CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	REMARKS
0010	10+35	-	63+90	CTH K, LT & RT	975	---	
0010	63+90	-	116+70	CTH K, LT & RT	950	---	
0010	116+70	-	169+50	CTH K, LT & RT	950	---	
0010	169+50	-	222+30	CTH K, LT & RT	950	57	TWENTY-SIX RD
0010	222+30	-	275+10	CTH K, LT & RT	950	176	26TH RD, OLD K, S.E. TRANSITION
0010	275+10	-	290+71	CTH K, LT & RT	280	---	
TOTAL 0010					5,055	233	

\*OTHER QUANTITIES SHOWN ELSEWHERE

PULVERIZE AND RELAY

325.0100      374.1020.S  
PULVERIZE AND      QMP PULVERIZE  
RELAY      AND RELAY  
RELAY      COMPACTION  
SY      SY

CATEGORY	STATION	TO	STATION	LOCATION	SY	SY	REMARKS
0010	11+10	-	63+90	CTH K	14,178	14,080	
0010	63+90	-	116+70	CTH K	14,132	14,080	
0010	116+70	-	169+50	CTH K	14,119	14,080	
0010	169+50	-	222+30	CTH K	14,334	14,080	
0010	222+30	-	275+10	CTH K	14,703	14,080	
0010	275+10	-	290+20	CTH K	4,124	4,027	
TOTAL 0010					75,590	74,427	

\*OTHER QUANTITIES SHOWN ELSEWHERE

PROJECT NO: 7864-03-72

HWY: CTH K

COUNTY: CLARK

MISCELLANEOUS QUANTITIES

SHEET

E

ASPHALTIC PAVEMENT ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	455.0605	460.6223	460.6244	REMARKS
					TACK COAT GAL	HMA PAVEMENT 3 MT 58-28 S TON	HMA PAVEMENT 4 MT 58-34 S TON	
0010	10+35	-	63+15	CTH K	1,742	2,032	1,626	
0010	63+15	-	115+95	CTH K	1,724	2,012	1,610	
0010	115+95	-	168+75	CTH K	1,712	1,997	1,597	
0010	168+75	-	221+55	CTH K	1,737	2,027	1,621	
0010	221+55	-	274+35	CTH K	1,781	2,079	1,663	
0010	274+35	-	290+71	CTH K	546	637	509	
TOTAL 0010					9,242	10,784	8,626	

ASPHALTIC SURFACE

CATEGORY	STATION	LOCATION	465.0120	REMARKS
			ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	
0010	11+25	CTH K, LT	4	
0010	13+34	CTH K, LT	3	
0010	15+67	CTH K, LT	3	
0010	40+77	CTH K, LT	3	
TOTAL 0010			13	

EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0500 SEED WATER MGAL	REMARKS
0010	248+50	-	251+00	CTH K, LT & RT	111	111	200	400	0.07	2	2	
TOTAL 0010					111	111	200	400	0.07	2	2	

WATER

CATEGORY	STATION	TO	STATION	LOCATION	624.0100 WATER MGAL	REMARKS
0010	11+10	-	63+90	CTH K	57	MAINLINE PULVERIZE & RELAY OPERATION
0010	63+90	-	116+70	CTH K	57	MAINLINE PULVERIZE & RELAY OPERATION
0010	116+70	-	169+50	CTH K	56	MAINLINE PULVERIZE & RELAY OPERATION
0010	169+50	-	222+30	CTH K	57	MAINLINE PULVERIZE & RELAY OPERATION
0010	222+30	-	275+10	CTH K	59	MAINLINE PULVERIZE & RELAY OPERATION
0010	275+10	-	290+20	CTH K	16.0	MAINLINE SHOULDERING OPERATION
0010	10+35	-	63+90	CTH K	14.6	MAINLINE SHOULDERING OPERATION
0010	63+90	-	116+70	CTH K	14.3	MAINLINE SHOULDERING OPERATION
0010	116+70	-	169+50	CTH K	14.3	MAINLINE SHOULDERING OPERATION
0010	169+50	-	222+30	CTH K	14.3	MAINLINE SHOULDERING OPERATION
0010	222+30	-	275+10	CTH K	14.3	MAINLINE SHOULDERING OPERATION
0010	275+10	-	290+71	CTH K	4.2	MAINLINE SHOULDERING OPERATION
TOTAL 0010					378	

TRAFFIC CONTROL

CATEGORY	STATION	TO	STATION	USAGE	DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	649.0770 TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE II EACH	REMARKS
0010	10+35	-	290+71	PROJECT	44	---	2,904	166	RAISED PAVEMENT MARKER COLOR SHALL BE YELLOW.
0010	248+50	-	251+00	S.E. TRANSITION	2	32	4	---	
TOTAL 0010						32	2,908	166	

PAVEMENT MARKING

					646.1020 EPOXY 4-INCH				
					12.5 FT SKIP 37.5 FT SKIP		3 FT SKIP 9 FT GAP		
CATEGORY	STATION	TO	STATION	LOCATION	<u>YELLOW</u> LF	<u>YELLOW</u> LF	<u>WHITE</u> LF	<u>WHITE</u> LF	REMARKS
0010	10+00	-	63+90	CTH K	504	199	10,408	56	
0010	63+90	-	116+70	CTH K	6,146	893	10,326	38	
0010	116+70	-	169+50	CTH K	4,872	1,320	10,428	19	
0010	169+50	-	222+30	CTH K	3,421	1,197	10,415	39	
0010	222+30	-	275+10	CTH K	8,304	542	10,241	110	
0010	275+10	-	290+71	CTH K	44	372	1,592	19	
SUBTOTAL					23,291	4,522	53,410	281	
TOTAL 0010					81,504				

LOCATE NO PASSING ZONE

CATEGORY	STATION	TO	STATION	LOCATION	648.0100 LOCATING NO- PASSING ZONES MI	REMARKS
0010	10+35	-	290+71	CTH K	5.3	
TOTAL 0010					5.3	

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9910.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 7864- 03-72 01. LS	REMARKS
0010	10+35	-	290+71	CTH K	--	--	28,036	1	
0010	10+58 'A'	-	11+00 'A'	HEATH RD	--	--	42	--	
0010	10+50 'B'	-	10+42 'C'	HEINTOWN RD	--	--	82	--	
0010	10+87 'D'	-	11+72 'D'	BOBWHITE RD	--	--	85	--	
0010	10+00 'E'	-	10+42 'E'	MANN RD	--	--	42	--	
0010	11+45 'F'	-	12+05 'F'	TWENTY-SIX RD	--	--	60	--	
0010	10+00 'G'	-	10+92 'G'	26TH RD	--	--	92	--	
0010	107+00 'H'	-	108+28 'H'	OLD K	--	--	128	--	
0010	10+00 'I'	-	10+50 'I'	CHICKADEE RD	--	--	50	--	
0010	248+50	-	249+50	CTH K, LT	--	100	--	--	SOUTHBOUND SHOULDER
0010	249+00	-	251+00	CTH K, RT	200	200	--	--	NORTHBOUND
TOTAL 0010					200	300	28,617	1	

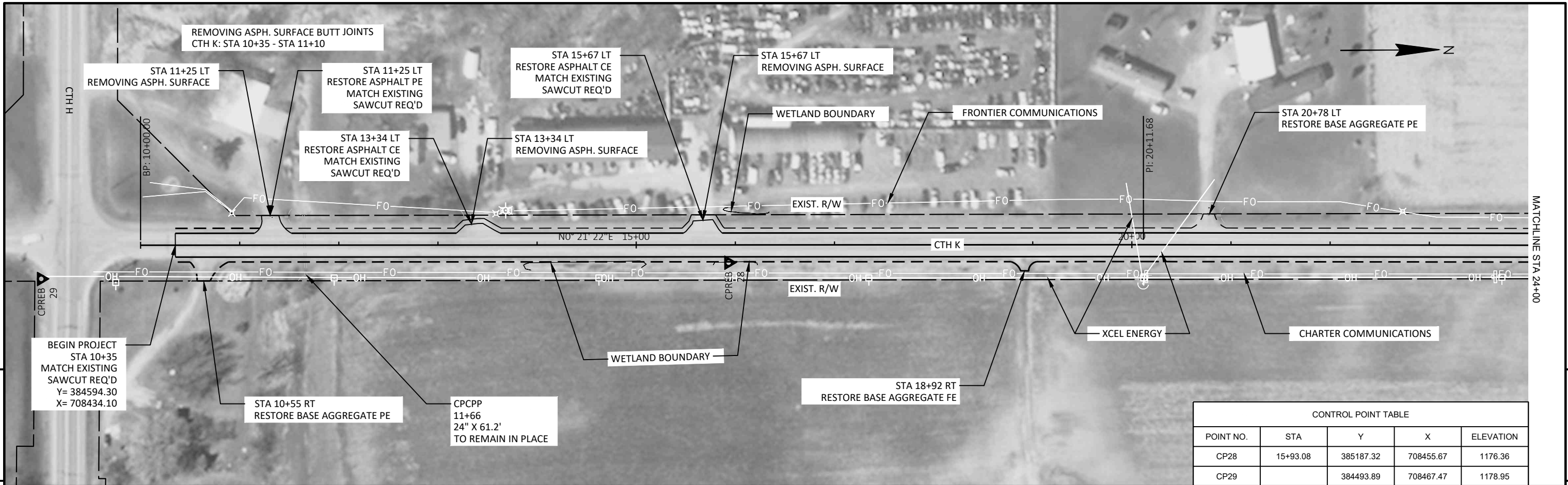


SAWING ASPHALT

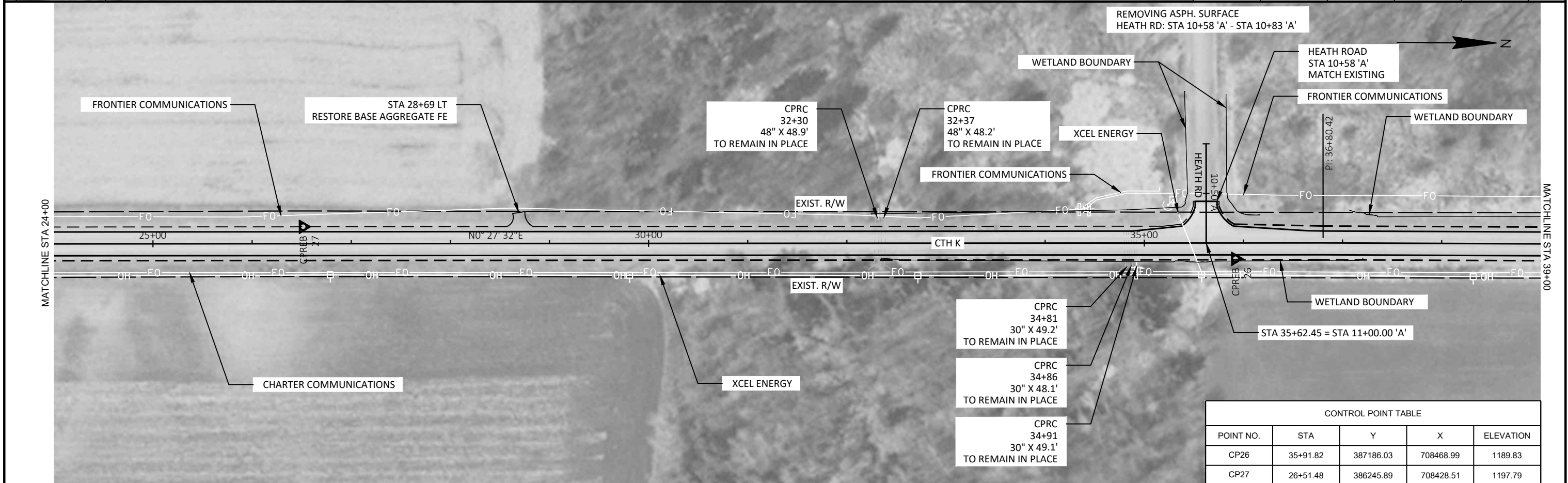
CATEGORY	STATION	LOCATION	LF	REMARKS
0010	10+35	CTH K	24	
0010	11+45 'F'	TWENTY-SIX RD	38	
0010	10+92 'G'	26TH RD	22	
0010	107+00 'H'	OLD K	22	
0010	290+70	CTH K	24	
0010	11+25	CTH K LT	18	DRIVEWAY
0010	13+34	CTH K LT	22	DRIVEWAY
0010	16+67	CTH K LT	22	DRIVEWAY
0010	40+77	CTH K LT	24	DRIVEWAY
TOTAL 0010			216	

ADJUSTMENTS

CATEGORY	STATION	LOCATION	SPV.0060.01		SPV.0060.02		REMARKS
			ADJUSTING SANITARY SEWER MANHOLE COVER EACH	ADJUSTING WATER VALVE COVER EACH			
0020	290+03	CTH K	1	---			13' LT
0020	290+31	CTH K	---	1			22' LT
0020	290+33	CTH K	---	1			18' LT
TOTAL 0010			1	2			

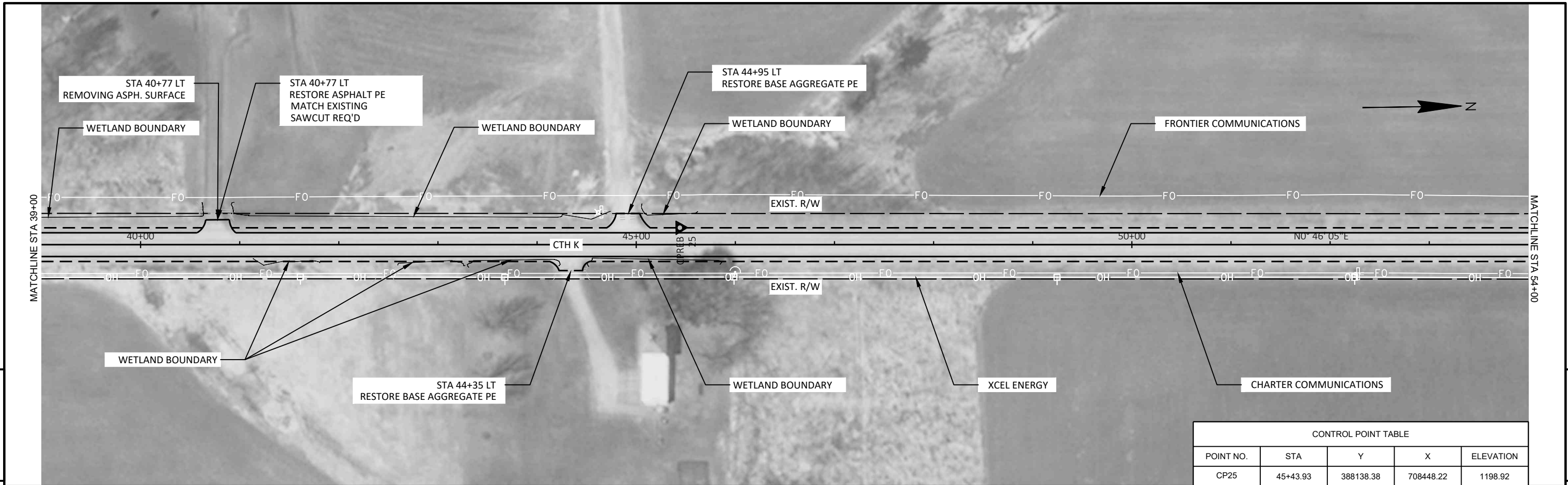


CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP28	15+93.08	385187.32	708455.67	1176.36
CP29		384493.89	708467.47	1178.95

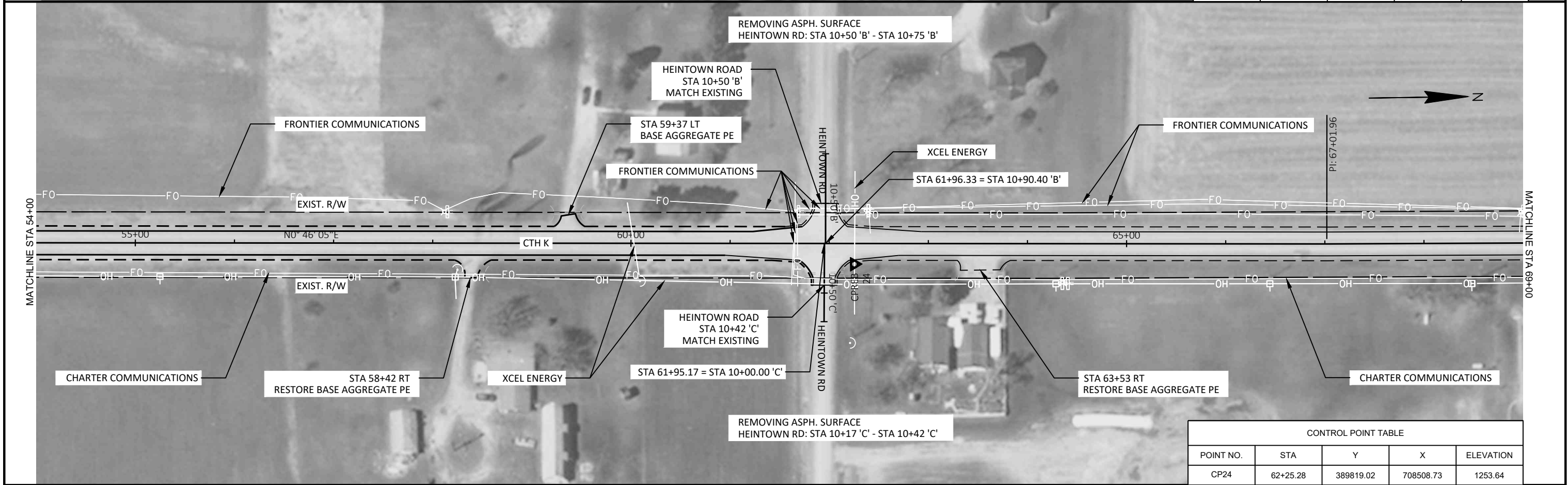


CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP26	35+91.82	387186.03	708468.99	1189.83
CP27	26+51.48	386245.89	708428.51	1197.79

PROJECT NO: 7864-03-72      HWY: CTH K      COUNTY: CLARK      PLAN      SHEET      E

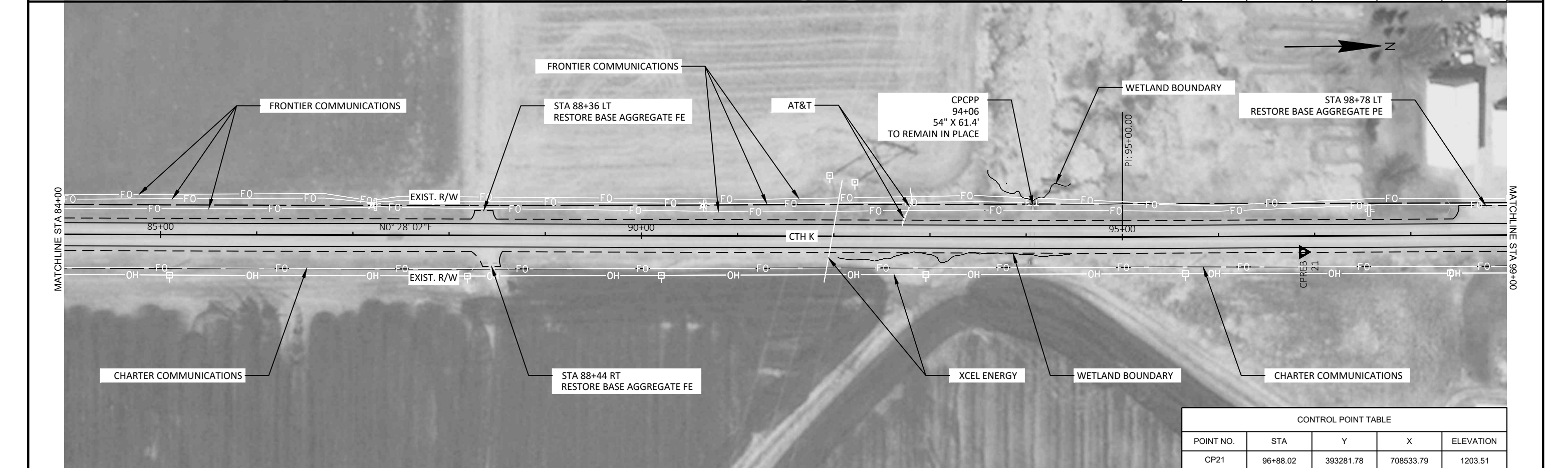
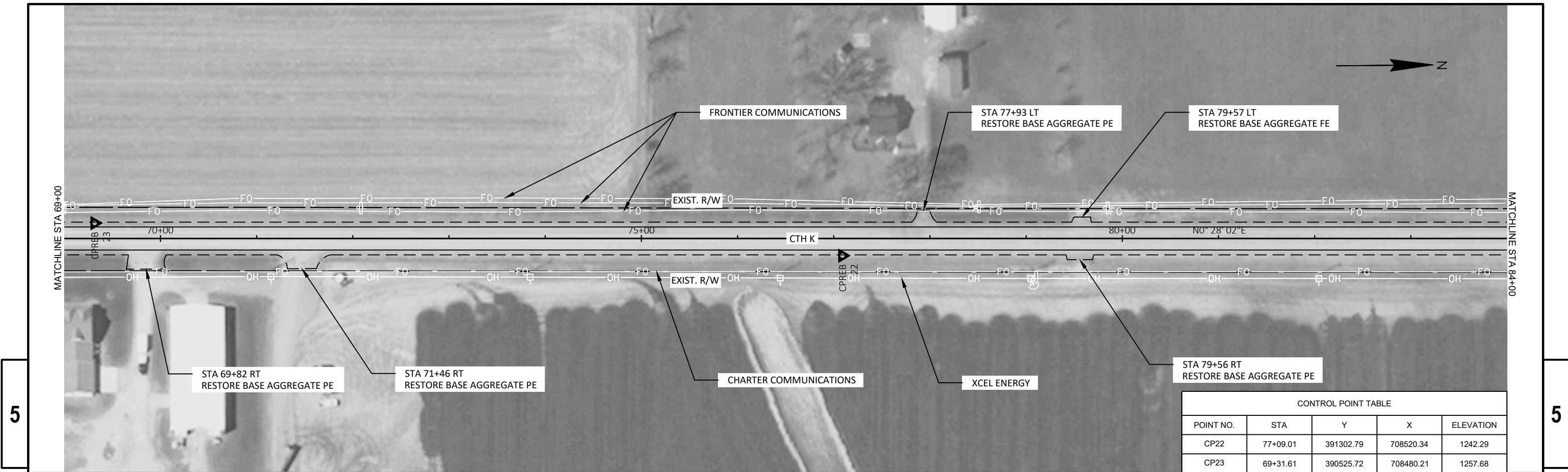


CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP25	45+43.93	388138.38	708448.22	1198.92



CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP24	62+25.28	389819.02	708508.73	1253.64

PROJECT NO: 7864-03-72      HWY: CTH K      COUNTY: CLARK      PLAN      SHEET      E



PROJECT NO: 7864-03-72

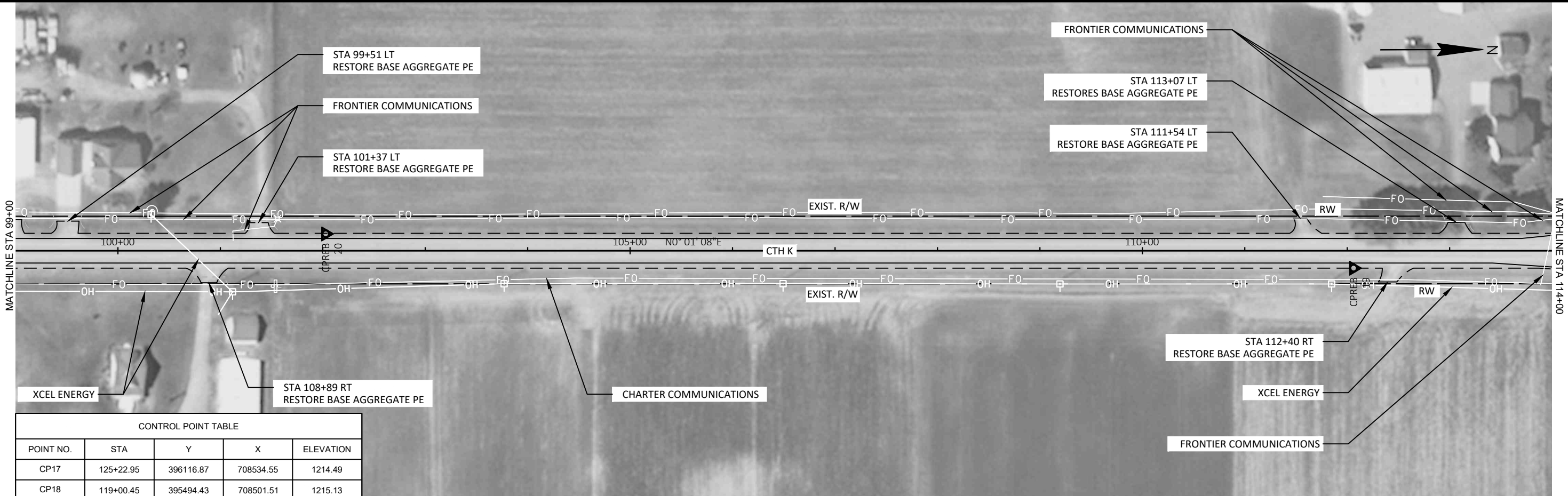
HWY: CTH K

COUNTY: CLARK

PLAN

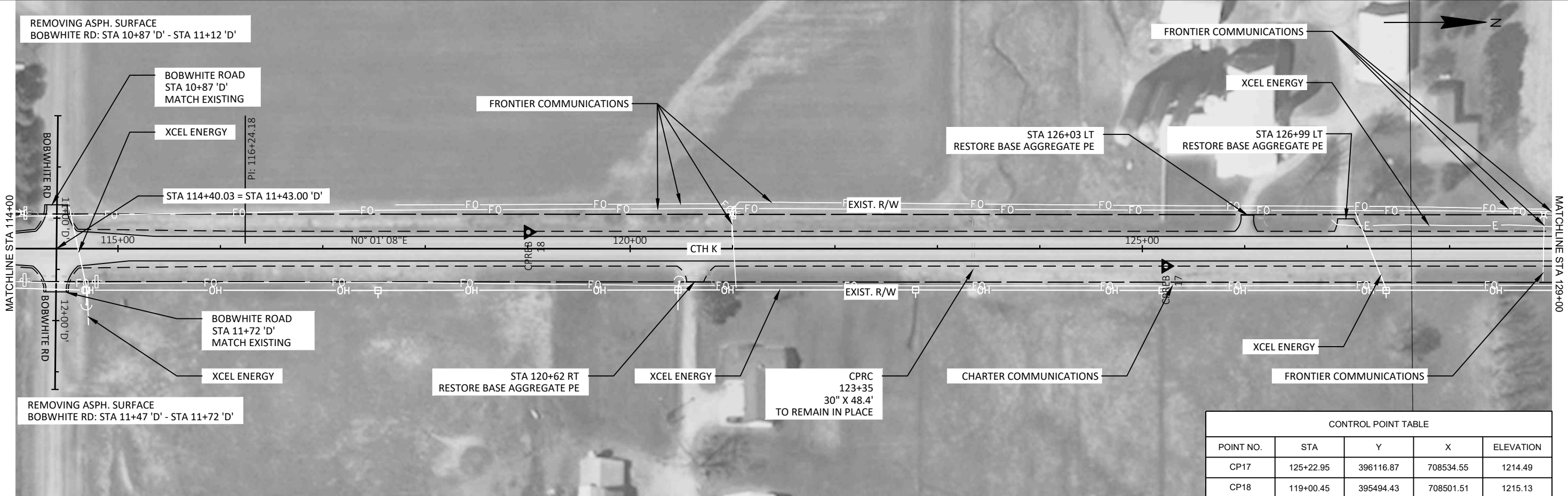
SHEET

E



**CONTROL POINT TABLE**

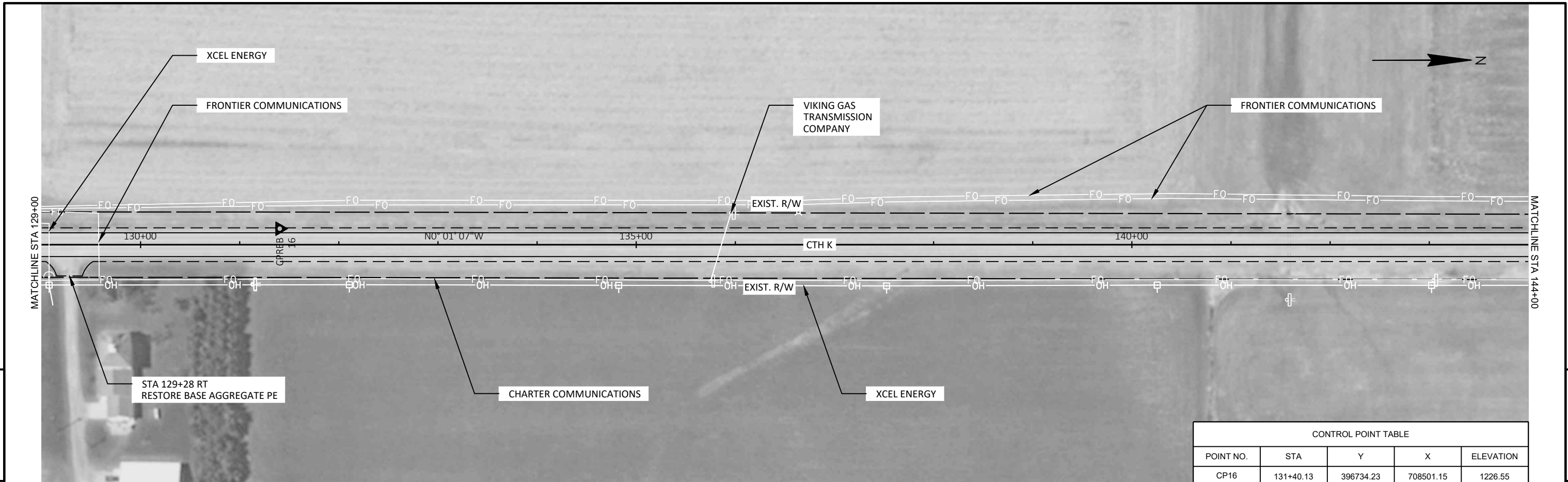
POINT NO.	STA	Y	X	ELEVATION
CP17	125+22.95	396116.87	708534.55	1214.49
CP18	119+00.45	395494.43	708501.51	1215.13



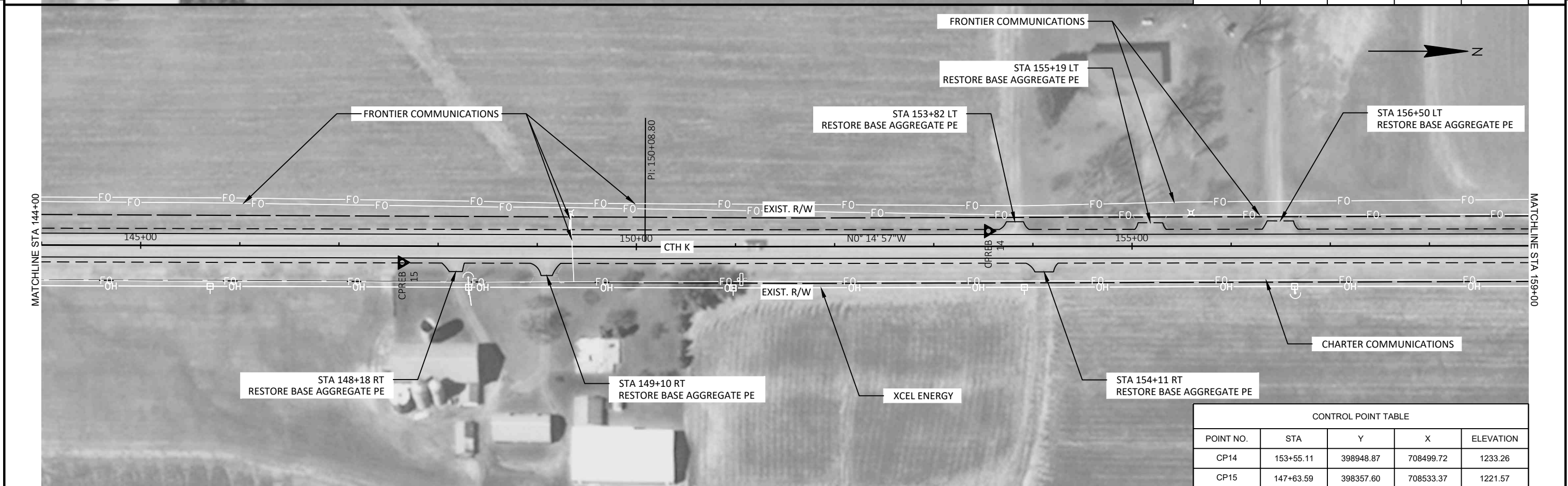
**CONTROL POINT TABLE**

POINT NO.	STA	Y	X	ELEVATION
CP17	125+22.95	396116.87	708534.55	1214.49
CP18	119+00.45	395494.43	708501.51	1215.13

PROJECT NO: 7864-03-72      HWY: CTH K      COUNTY: CLARK      PLAN      SHEET      **E**

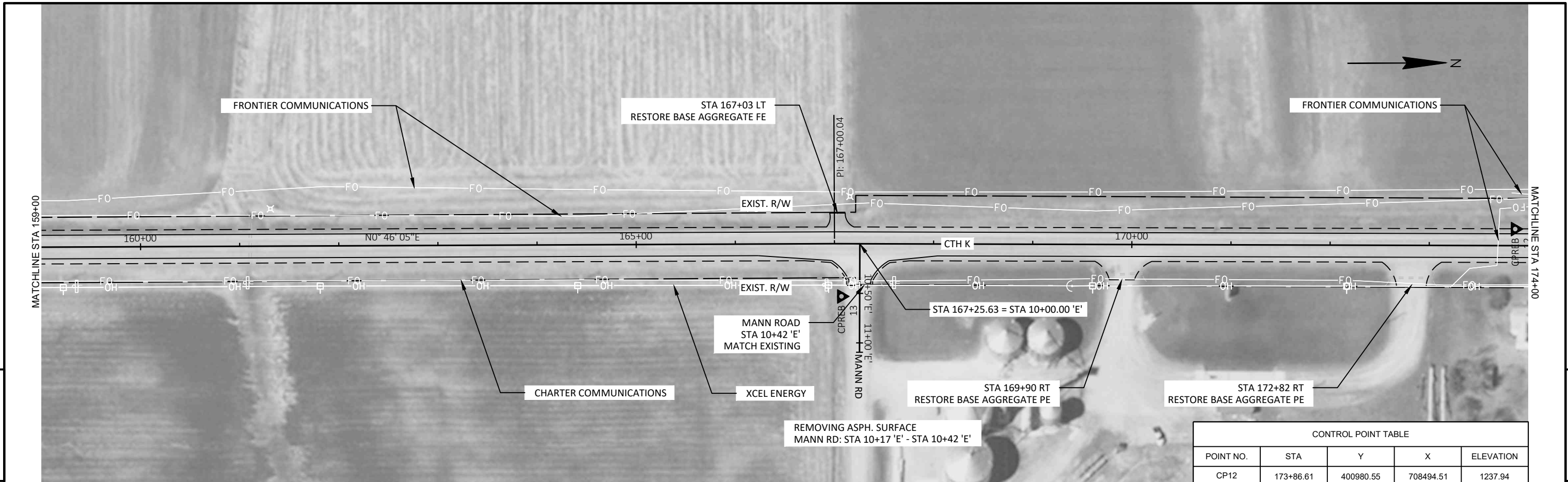


CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP16	131+40.13	396734.23	708501.15	1226.55

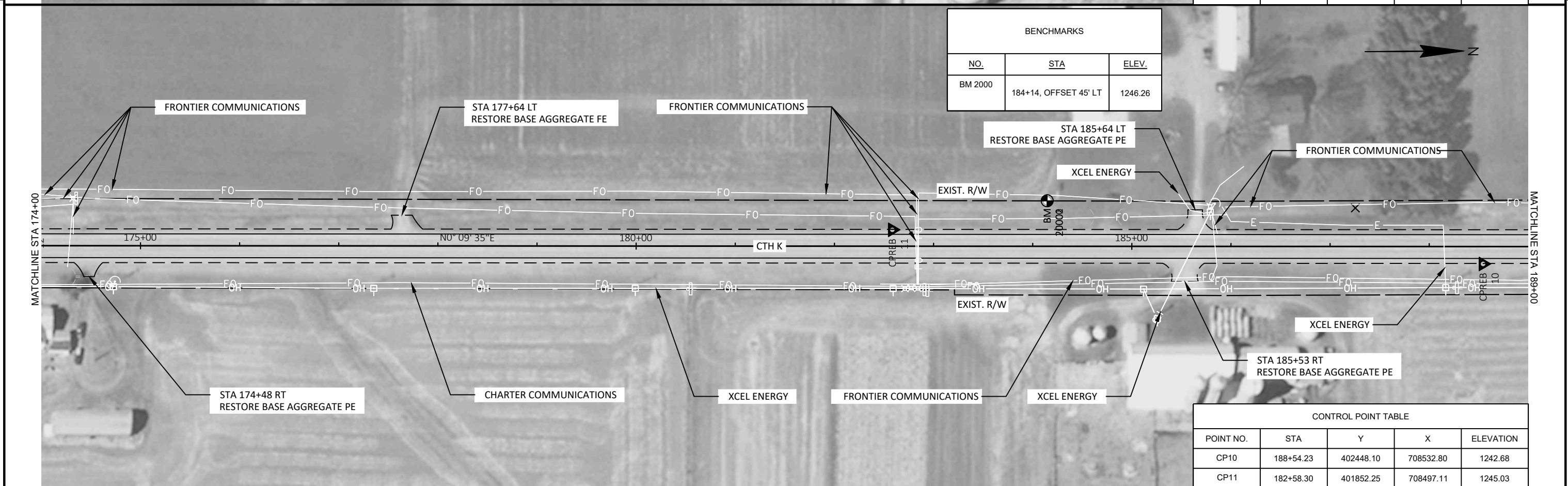


CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP14	153+55.11	398948.87	708499.72	1233.26
CP15	147+63.59	398357.60	708533.37	1221.57

PROJECT NO: 7864-03-72      HWY: CTH K      COUNTY: CLARK      PLAN      SHEET      E



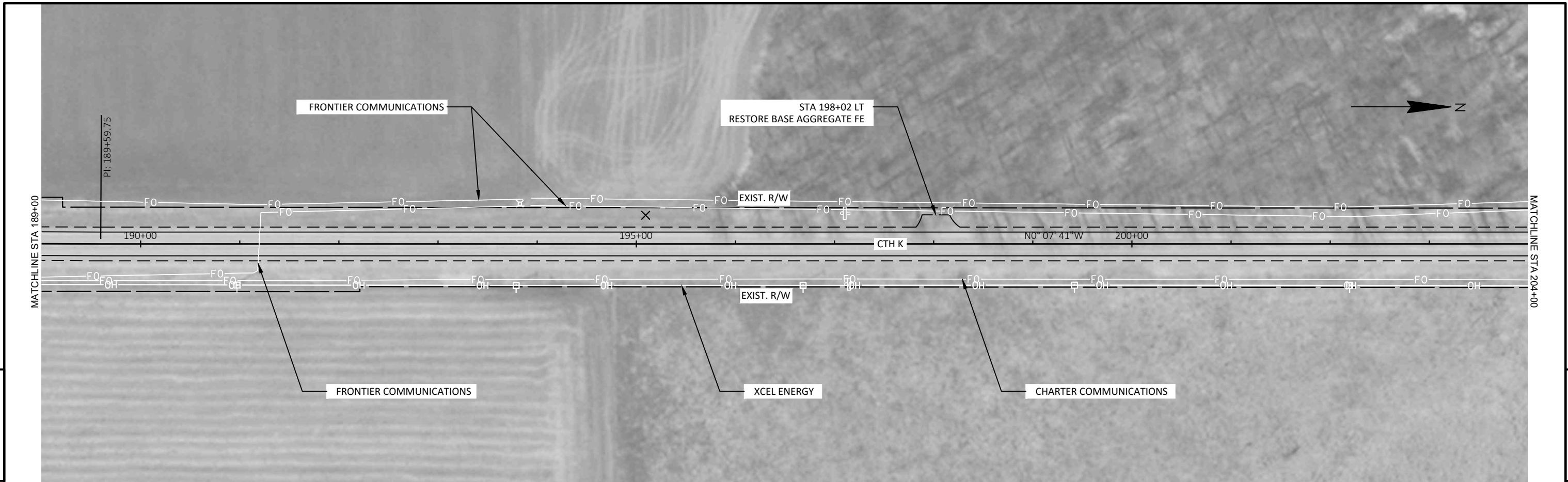
CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP12	173+86.61	400980.55	708494.51	1237.94



BENCHMARKS		
NO.	STA	ELEV.
BM 2000	184+14, OFFSET 45' LT	1246.26

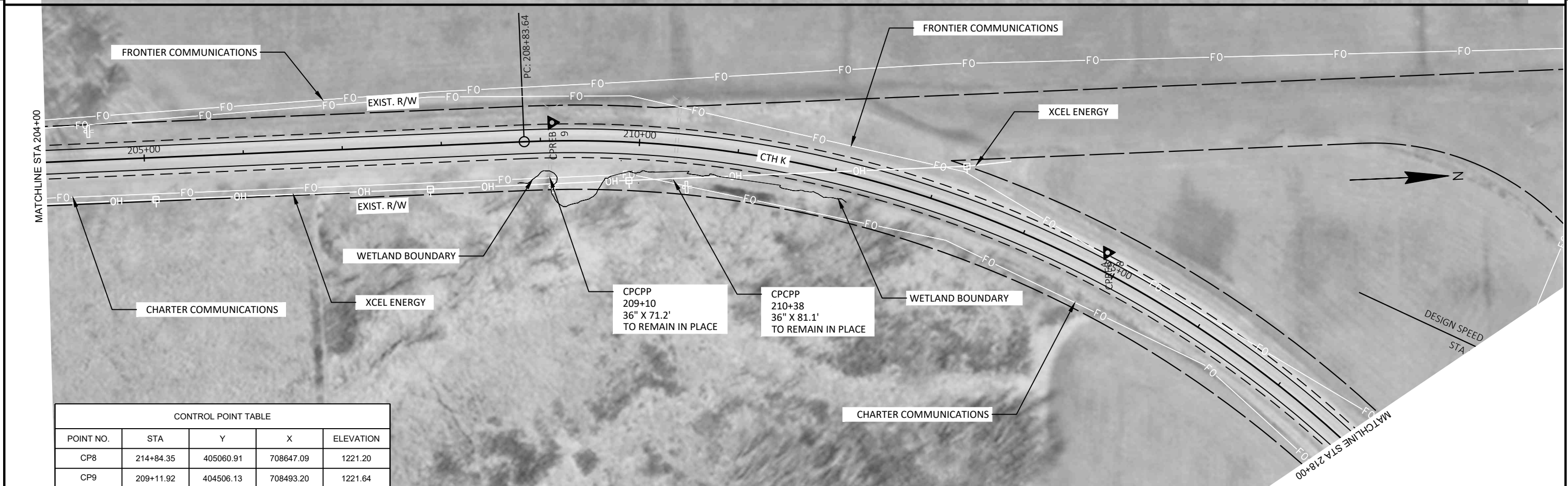
CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP10	188+54.23	402448.10	708532.80	1242.68
CP11	182+58.30	401852.25	708497.11	1245.03

PROJECT NO: 7864-03-72      HWY: CTH K      COUNTY: CLARK      PLAN      SHEET      E



5

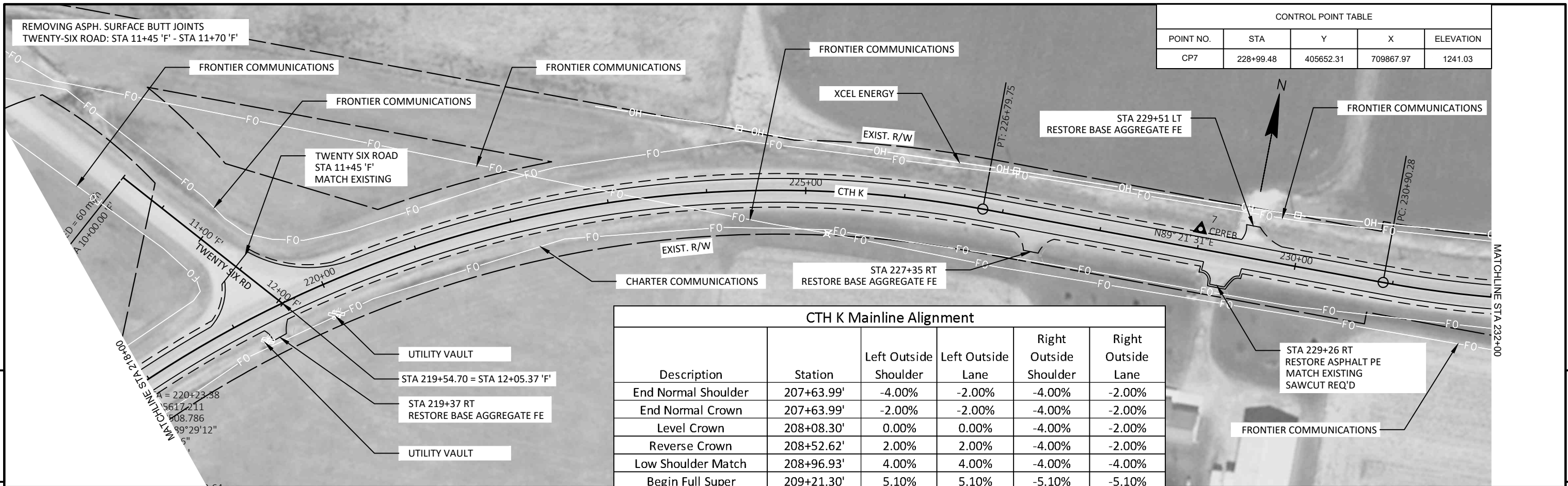
5



CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP8	214+84.35	405060.91	708647.09	1221.20
CP9	209+11.92	404506.13	708493.20	1221.64

PROJECT NO: 7864-03-72      HWY: CTH K      COUNTY: CLARK      PLAN      SHEET      E

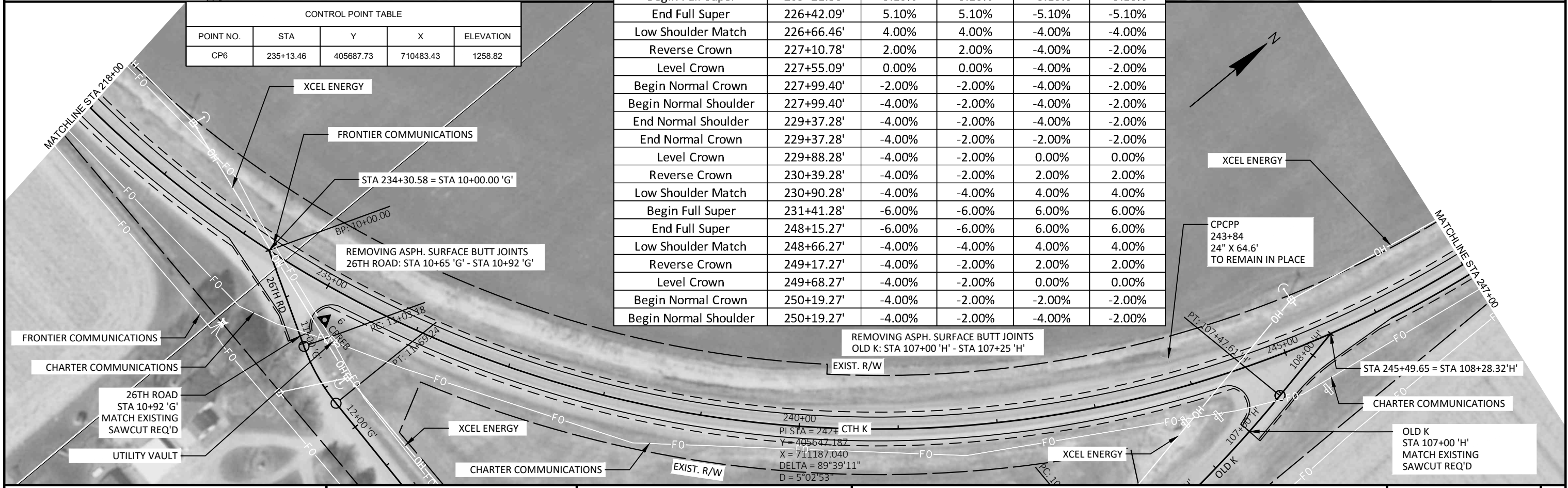




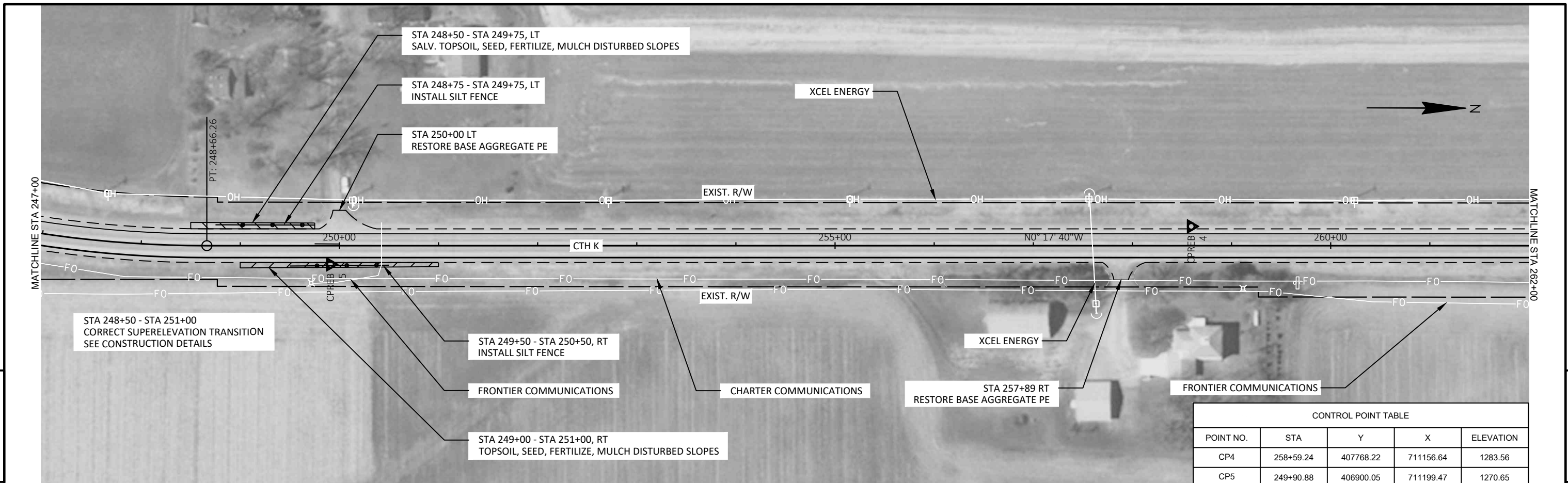
CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP7	228+99.48	405652.31	709867.97	1241.03

CTH K Mainline Alignment					
Description	Station	Left Outside Shoulder	Left Outside Lane	Right Outside Shoulder	Right Outside Lane
End Normal Shoulder	207+63.99'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Crown	207+63.99'	-2.00%	-2.00%	-4.00%	-2.00%
Level Crown	208+08.30'	0.00%	0.00%	-4.00%	-2.00%
Reverse Crown	208+52.62'	2.00%	2.00%	-4.00%	-2.00%
Low Shoulder Match	208+96.93'	4.00%	4.00%	-4.00%	-4.00%
Begin Full Super	209+21.30'	5.10%	5.10%	-5.10%	-5.10%
End Full Super	226+42.09'	5.10%	5.10%	-5.10%	-5.10%
Low Shoulder Match	226+66.46'	4.00%	4.00%	-4.00%	-4.00%
Reverse Crown	227+10.78'	2.00%	2.00%	-4.00%	-2.00%
Level Crown	227+55.09'	0.00%	0.00%	-4.00%	-2.00%
Begin Normal Crown	227+99.40'	-2.00%	-2.00%	-4.00%	-2.00%
End Normal Shoulder	229+37.28'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Crown	229+37.28'	-4.00%	-2.00%	-2.00%	-2.00%
Level Crown	229+88.28'	-4.00%	-2.00%	0.00%	0.00%
Reverse Crown	230+39.28'	-4.00%	-2.00%	2.00%	2.00%
Low Shoulder Match	230+90.28'	-4.00%	-4.00%	4.00%	4.00%
Begin Full Super	231+41.28'	-6.00%	-6.00%	6.00%	6.00%
End Full Super	248+15.27'	-6.00%	-6.00%	6.00%	6.00%
Low Shoulder Match	248+66.27'	-4.00%	-4.00%	4.00%	4.00%
Reverse Crown	249+17.27'	-4.00%	-2.00%	2.00%	2.00%
Level Crown	249+68.27'	-4.00%	-2.00%	0.00%	0.00%
Begin Normal Crown	250+19.27'	-4.00%	-2.00%	-2.00%	-2.00%
Begin Normal Shoulder	250+19.27'	-4.00%	-2.00%	-4.00%	-2.00%

CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP6	235+13.46	405687.73	710483.43	1258.82

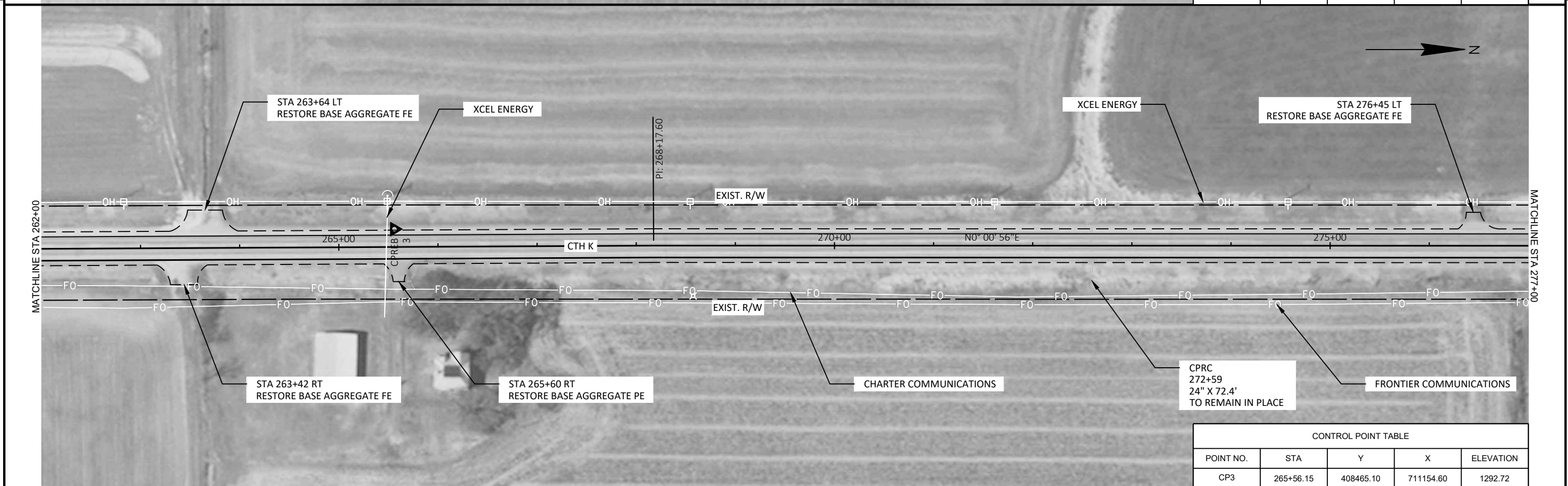


PROJECT NO: 7864-03-72      HWY: CTH K      COUNTY: CLARK      PLAN      SHEET      E



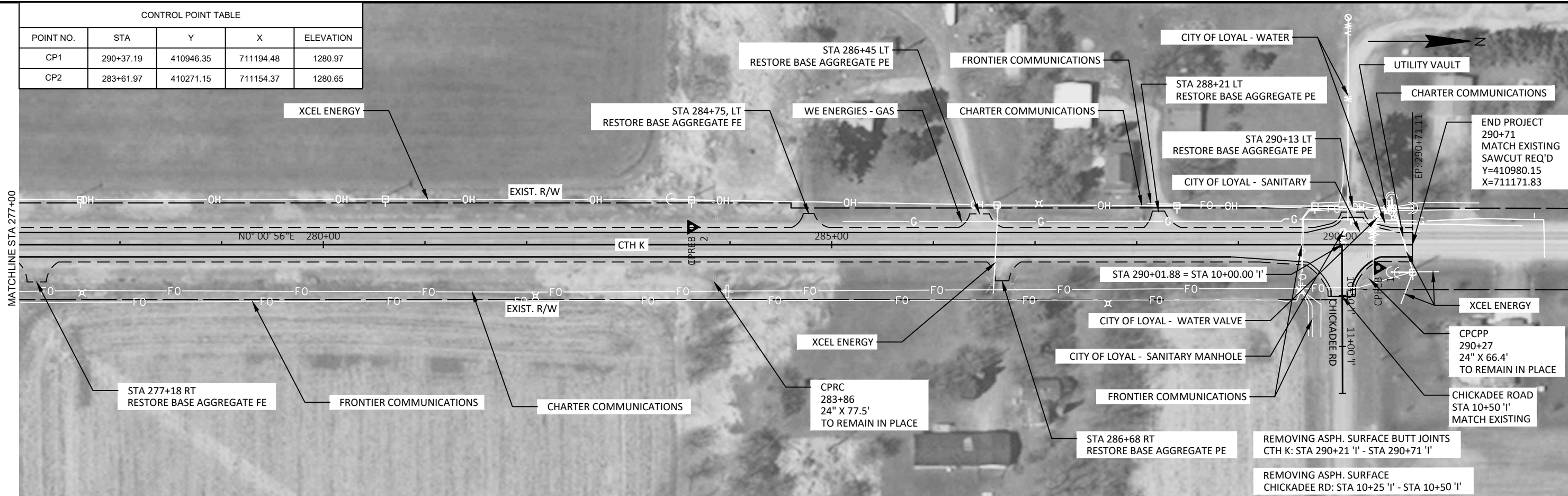
5

5



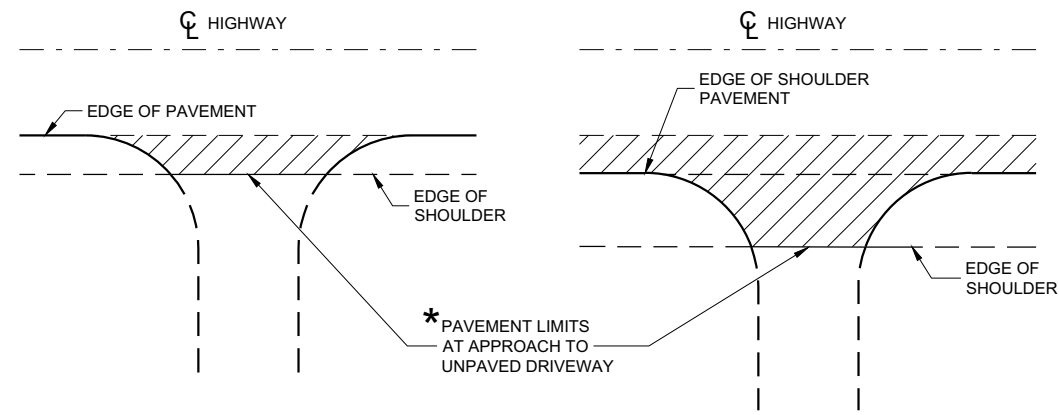
PROJECT NO: 7864-03-72      HWY: CTH K      COUNTY: CLARK      PLAN      SHEET      E

CONTROL POINT TABLE				
POINT NO.	STA	Y	X	ELEVATION
CP1	290+37.19	410946.35	711194.48	1280.97
CP2	283+61.97	410271.15	711154.37	1280.65



## Standard Detail Drawing List

08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E09-06	SILT FENCE
13C19-03	HMA LONGITUDINAL JOINTS
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C34-03	STANDARD APPLICATION FOR TEMPORARY RAISED PAVEMENT MARKER, TYPE 2
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL



\* WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

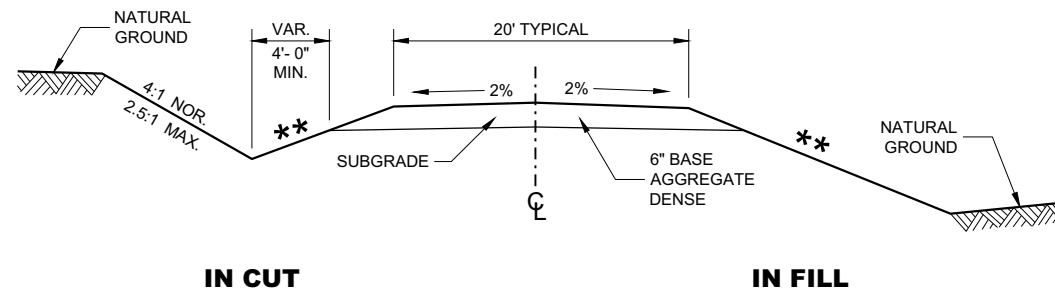
**PLAN VIEW**

(UNPAVED SHOULDER ON HIGHWAY)

**PLAN VIEW**

(PAVED SHOULDER ON HIGHWAY)

**RURAL DRIVEWAY INTERSECTION DETAIL  
(NO CURB AND GUTTER OR SIDEWALK)**



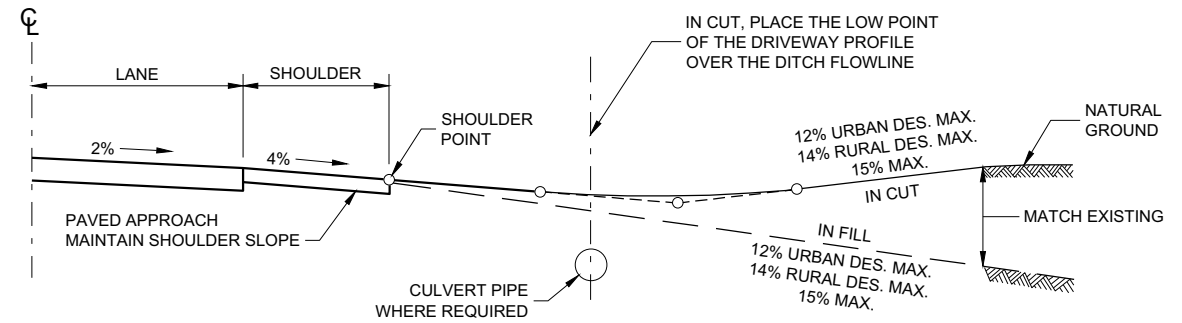
**IN CUT**

**IN FILL**

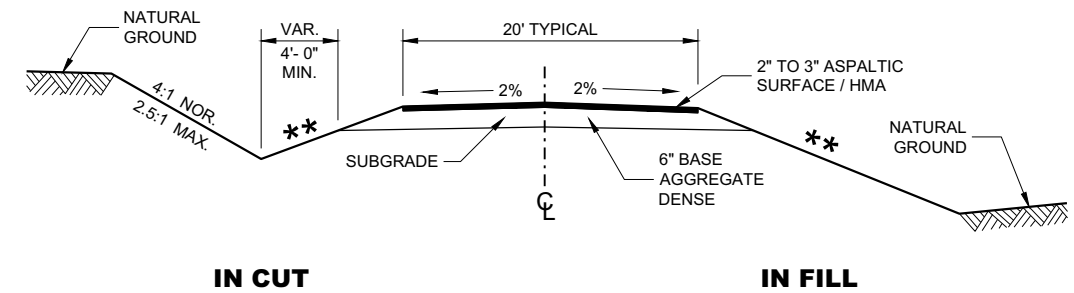
**TYPICAL CROSS SECTION FOR  
PRIVATE DRIVE OR FIELD ENTRANCE  
AGGREGATE SURFACE**

\*\* SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



**TYPICAL DRIVEWAY PROFILES**



**IN CUT**

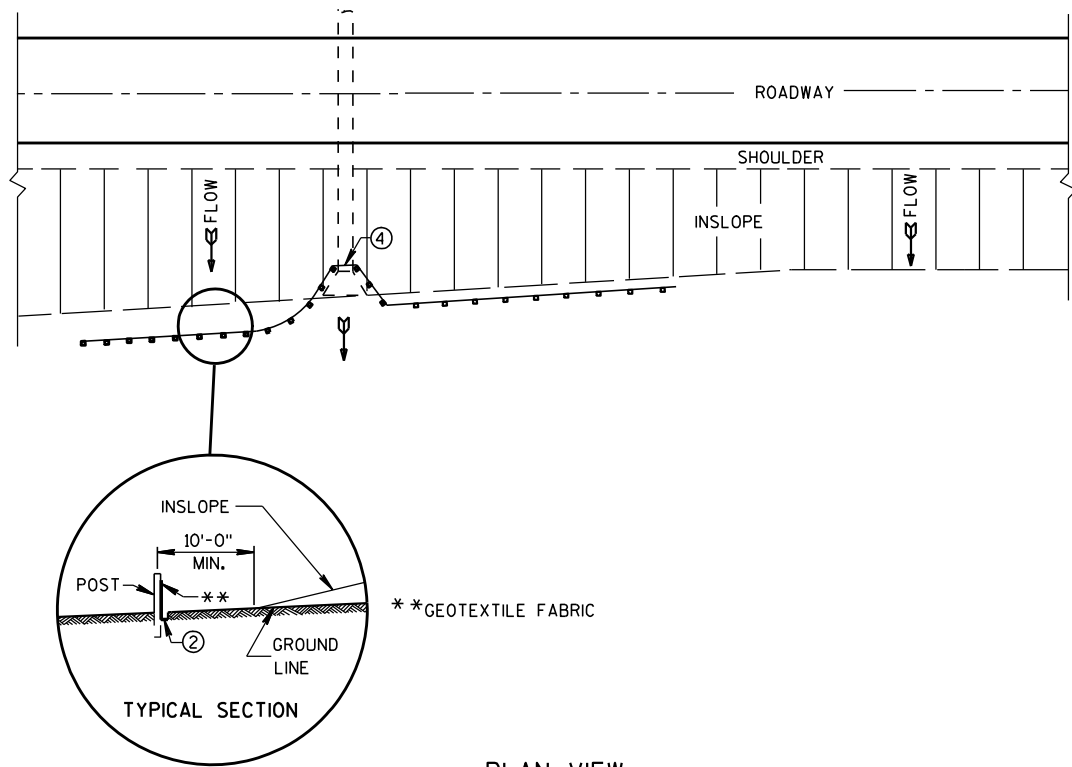
**IN FILL**

**TYPICAL CROSS SECTION FOR  
PRIVATE DRIVE OR FIELD ENTRANCE  
ASPHALTIC SURFACE**

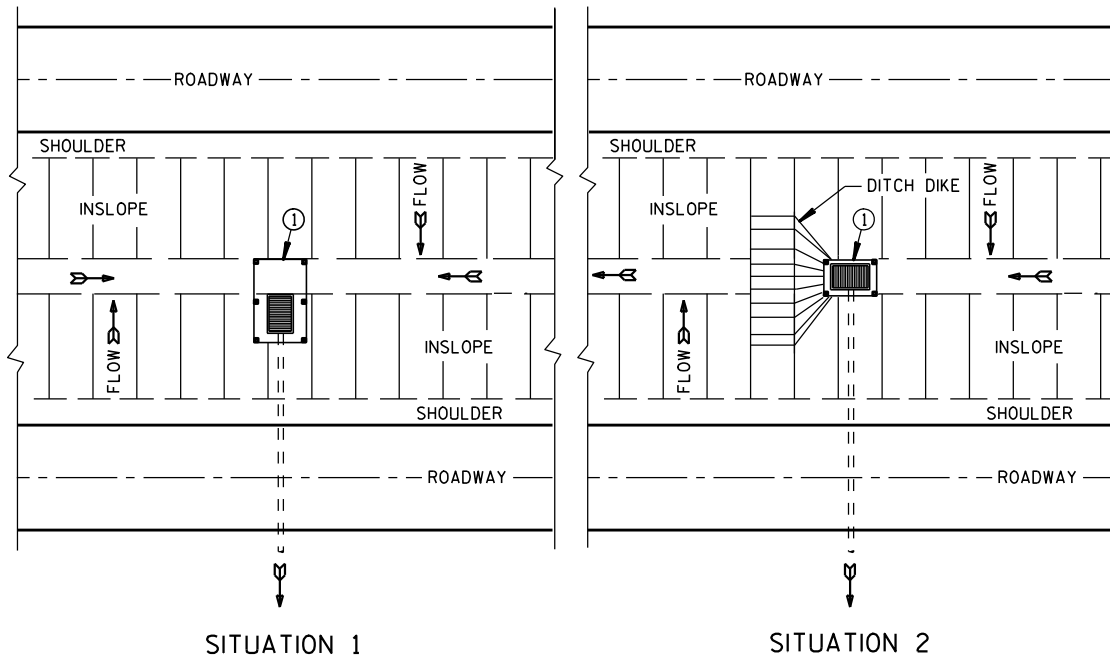
**DRIVEWAYS WITHOUT CURB AND GUTTER**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
December 2017 /S/ Rodney Taylor  
DATE ROADWAY STANDARDS DEVELOPMENT  
UNIT SUPERVISOR



PLAN VIEW  
TYPICAL APPLICATION OF SILT FENCE

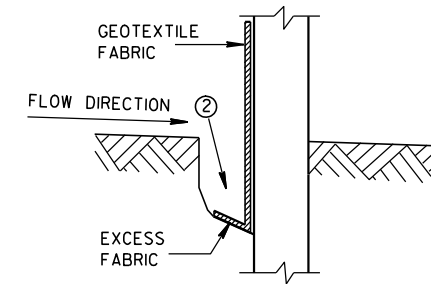


SITUATION 1 SITUATION 2  
PLAN VIEW  
SILT FENCE AT MEDIAN SURFACE DRAINS

**GENERAL NOTES**

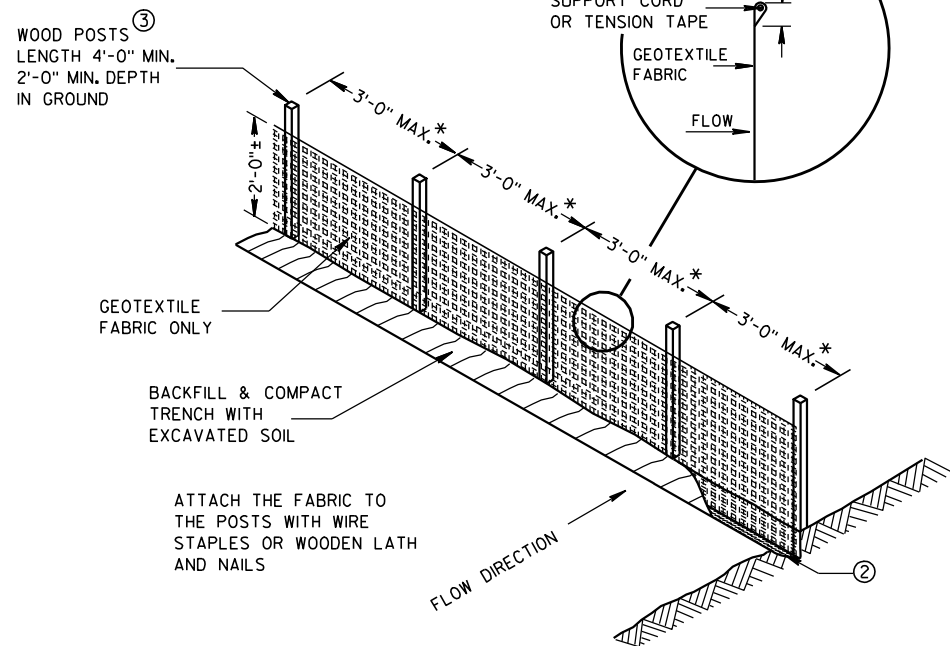
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



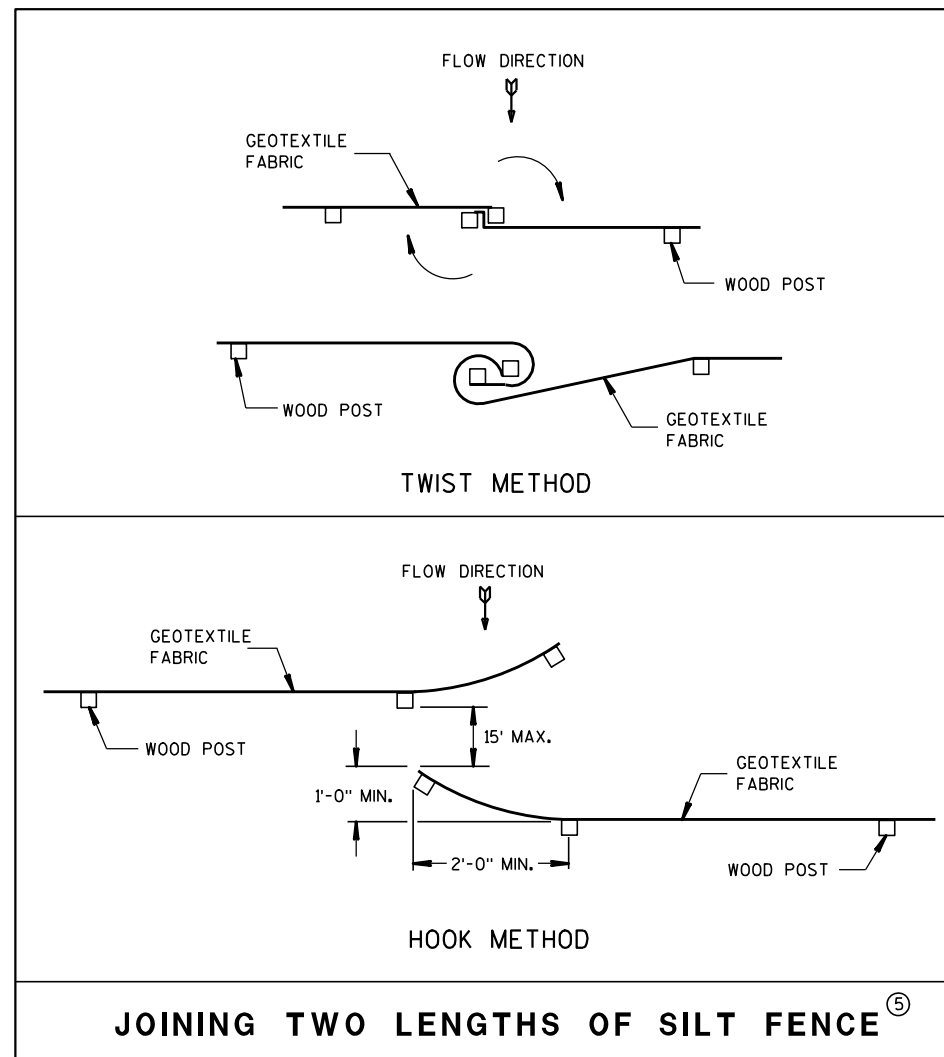
TRENCH DETAIL

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

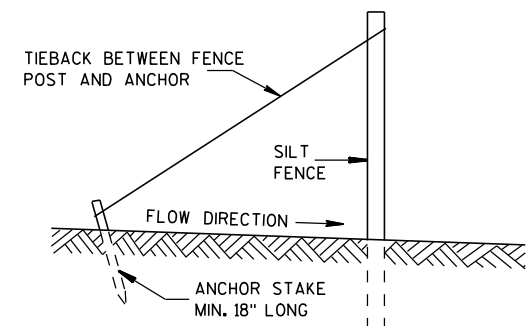


SILT FENCE

\* NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.



JOINING TWO LENGTHS OF SILT FENCE ⑤

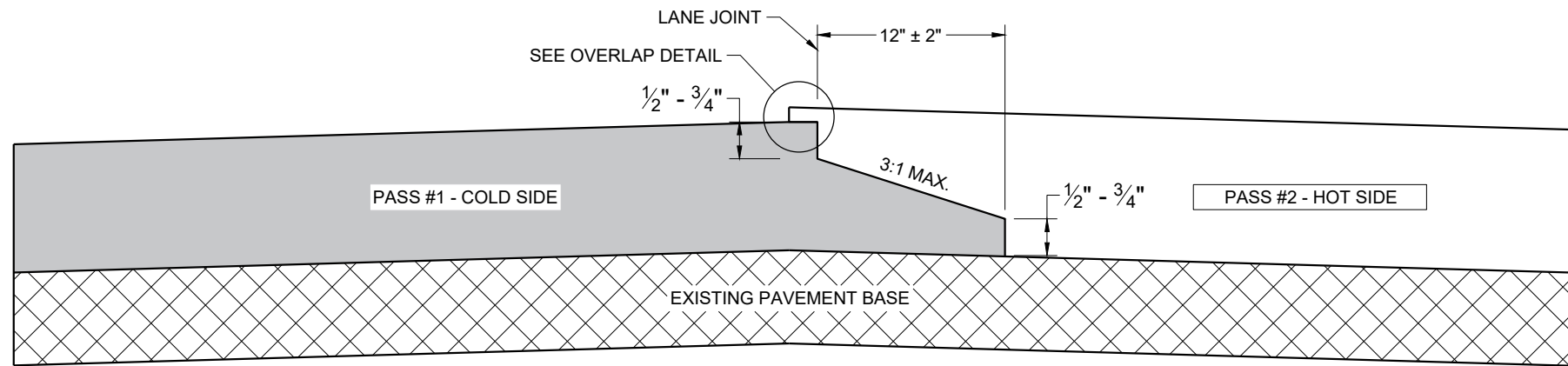


SILT FENCE TIE BACK  
(WHEN REQUIRED BY THE ENGINEER)

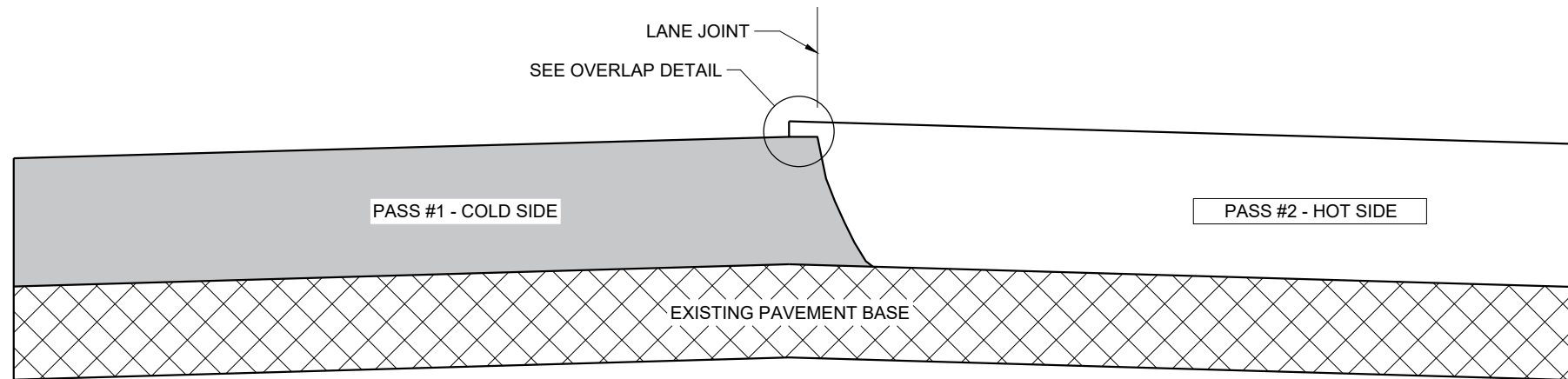
**SILT FENCE**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

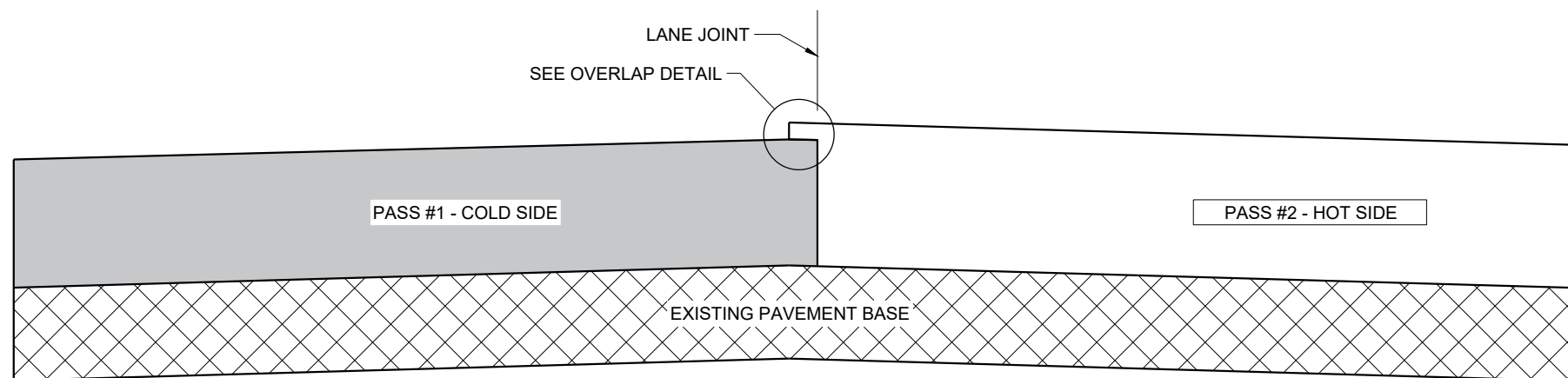
APPROVED  
4-29-05 /S/ Beth Canestra  
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER  
FHWA



**TYPICAL PAVEMENT CROSS SECTION  
NOTCHED WEDGE JOINT**



**TYPICAL PAVEMENT CROSS SECTION  
VERTICAL JOINT**



**TYPICAL PAVEMENT CROSS SECTION  
VERTICAL JOINT (MILLED)**

**GENERAL NOTES**

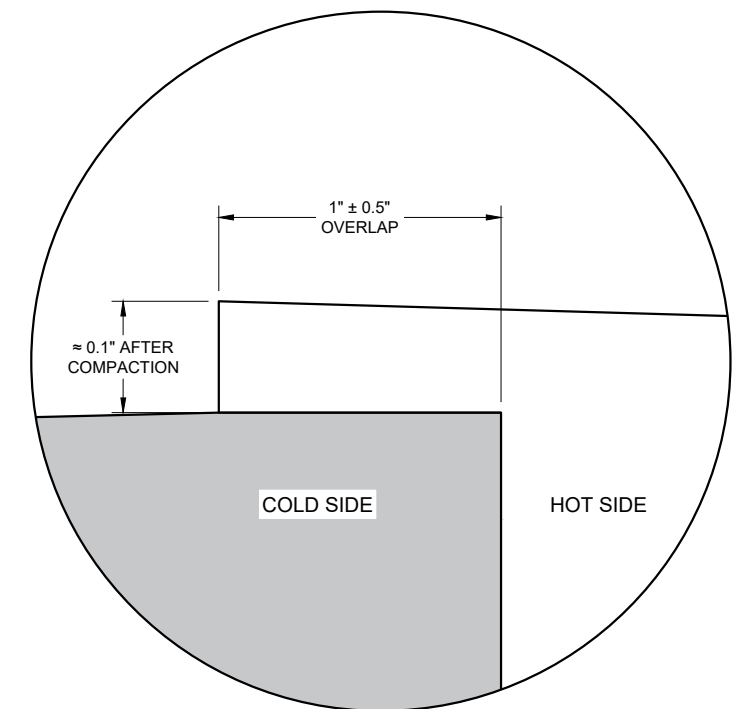
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY  $1" \pm 0.5"$  AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



**OVERLAP DETAIL (TYPICAL)**

6

6

SDD 13C19 - 03

SDD 13C19 - 03

<b>HMA LONGITUDINAL JOINTS</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGINEER
FHWA	

**GENERAL NOTES**

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.




ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

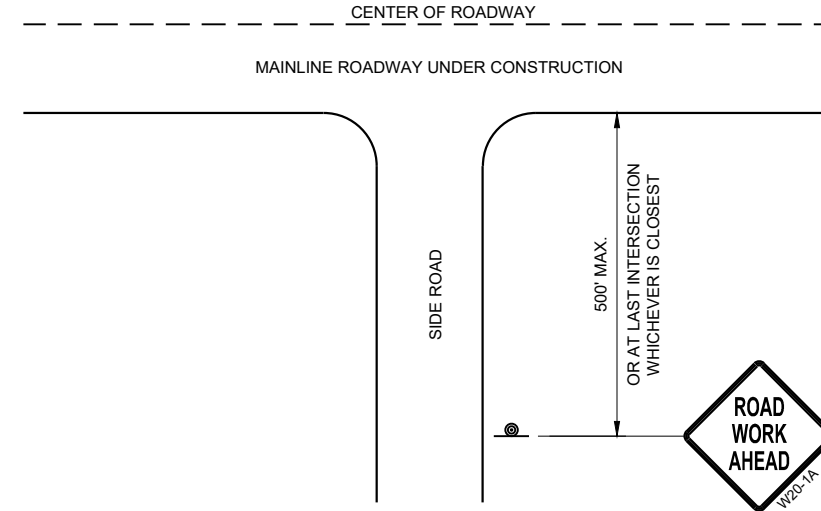
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

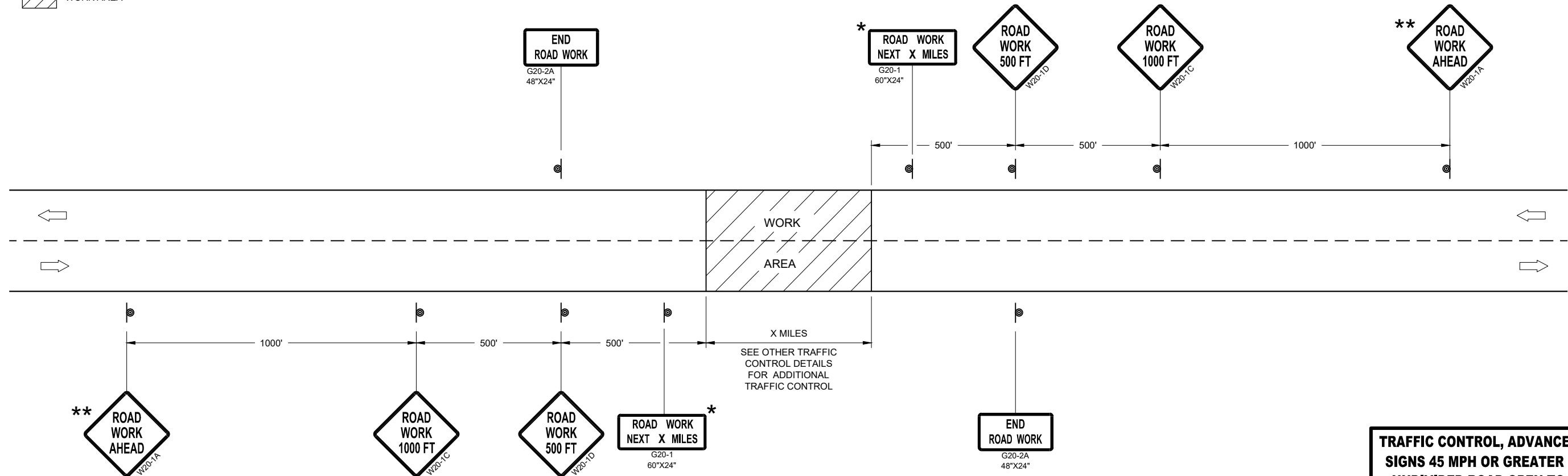
- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- \*\* PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

**LEGEND**

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



**TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL**



**TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER**

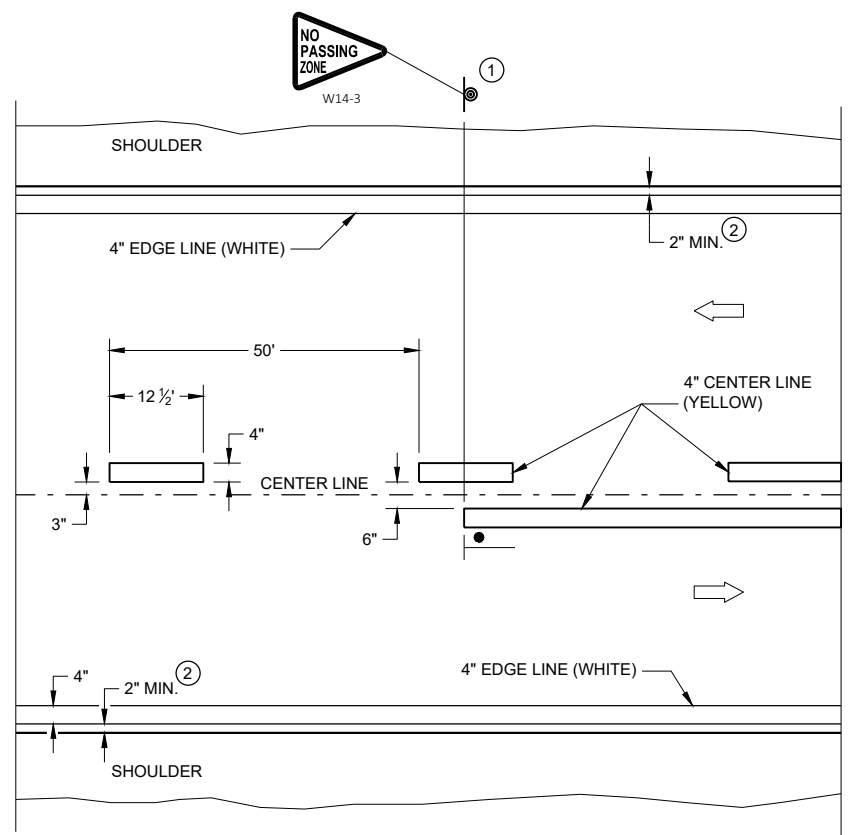
**TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

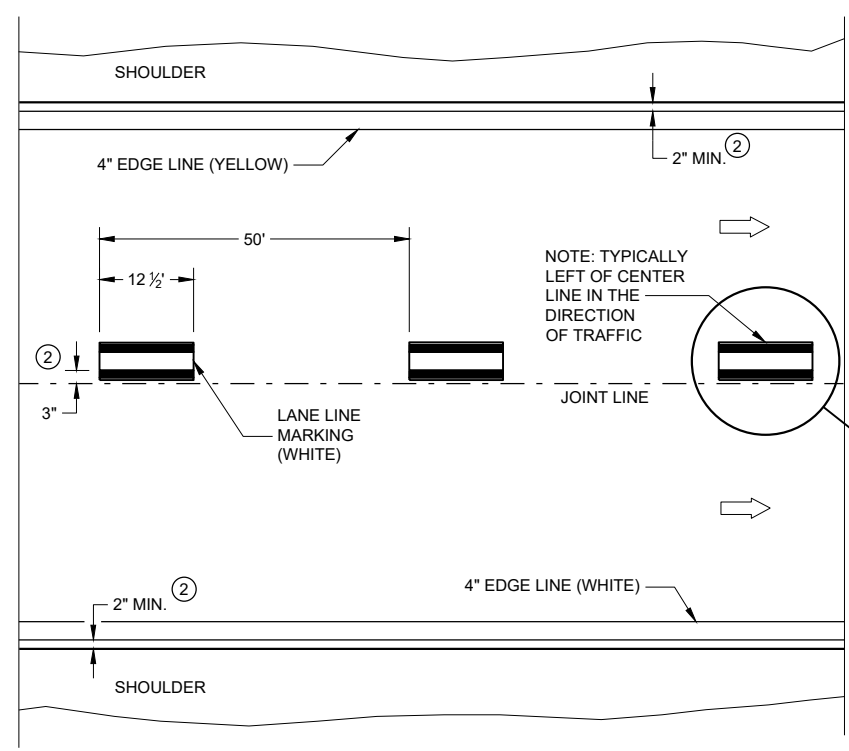
APPROVED  
DATE July 2018 /S/ Andrew Heidtke  
WORK ZONE ENGINEER

FHWA



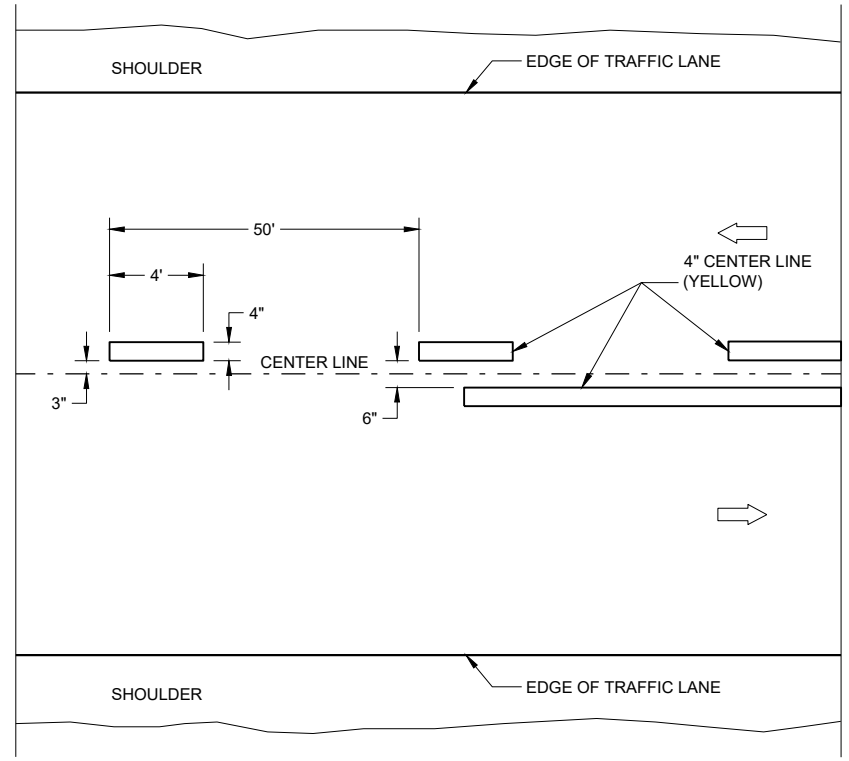


TWO WAY TRAFFIC

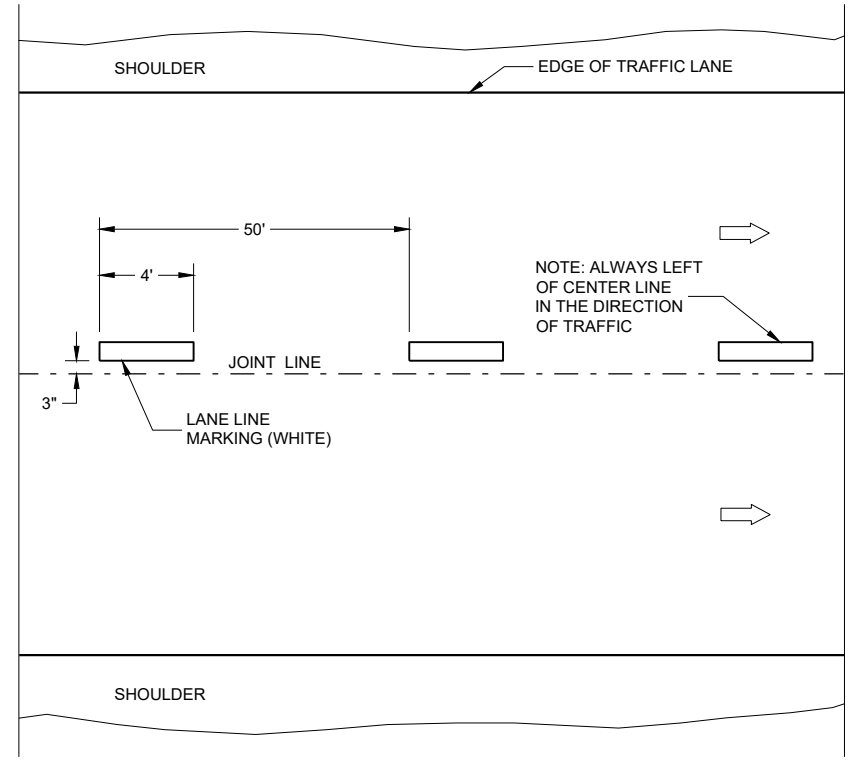


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

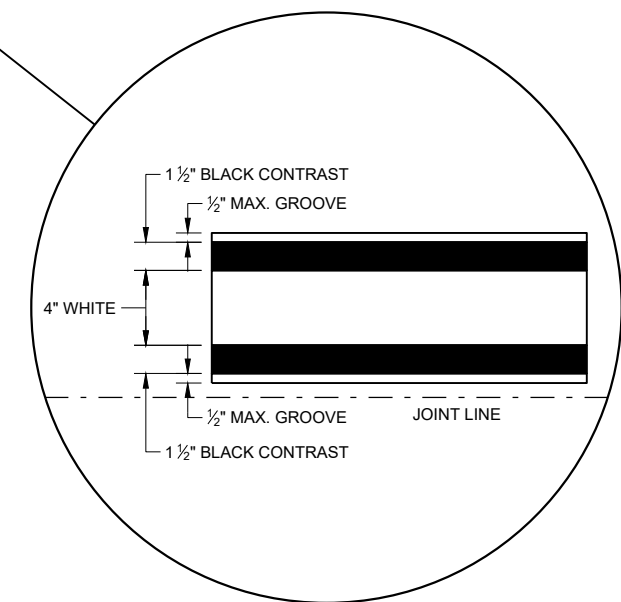
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

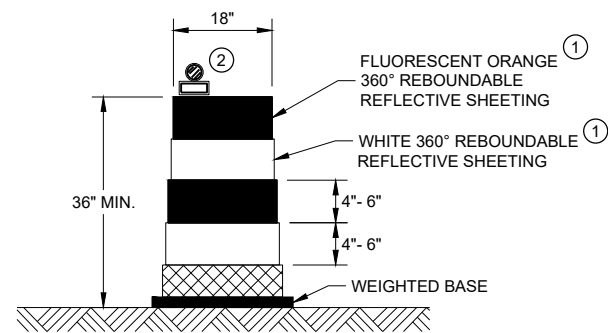
- |—"T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



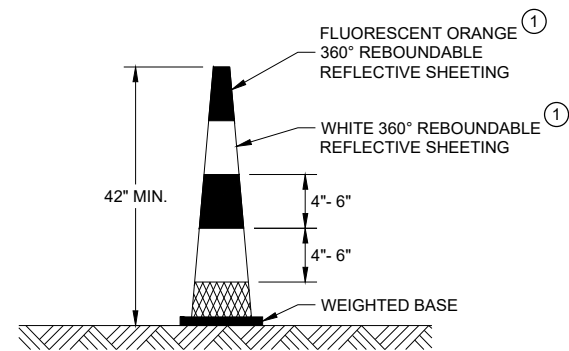
LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED  
 February 2020 /S/ Matthew Rauch  
 DATE STATEWIDE SIGNING AND MARKING ENGINEER  
 FHWA

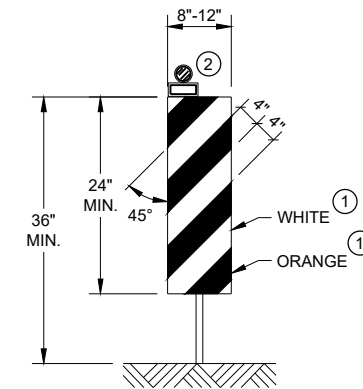


**DRUM**



**42" CONE**

DO NOT USE IN TAPERS  
 1/2 SPACING OF DRUMS

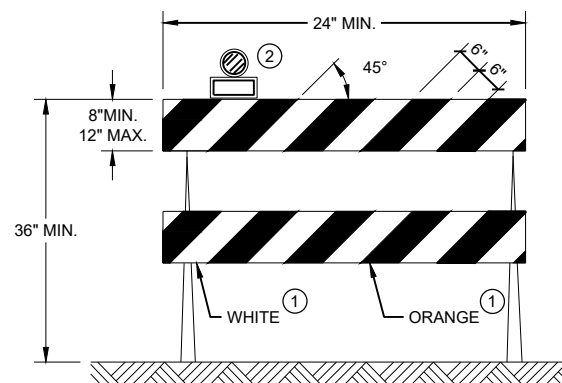


**VERTICAL PANEL**

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

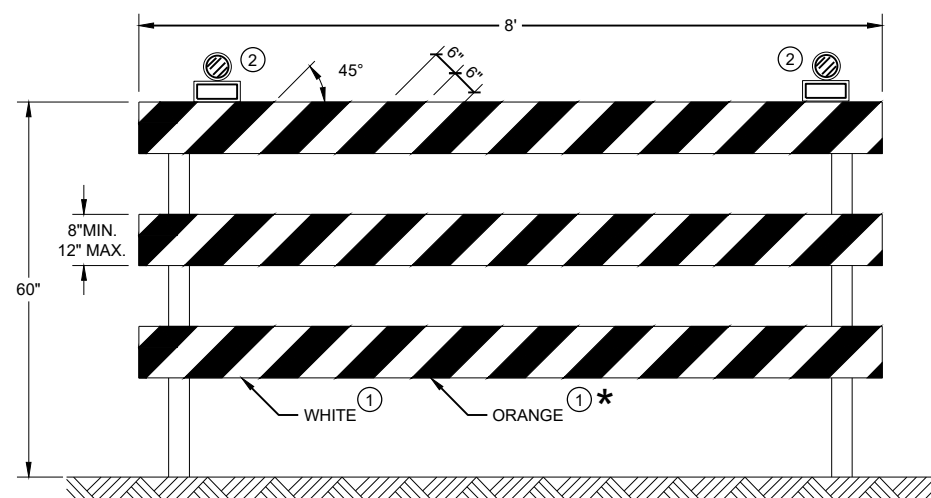
**GENERAL NOTES**

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



**TYPE II BARRICADE**

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.








**TYPE III BARRICADE**

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

<b>CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2021 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
<small>FHWA</small>	

**LEGEND**

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

**GENERAL NOTES**

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

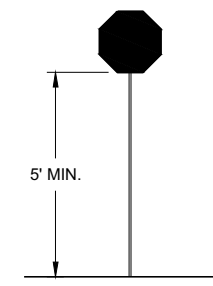
WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

**FLAGGING**

- FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.
- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
  - ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

**TEMPORARY PORTABLE RUMBLE STRIPS**

- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



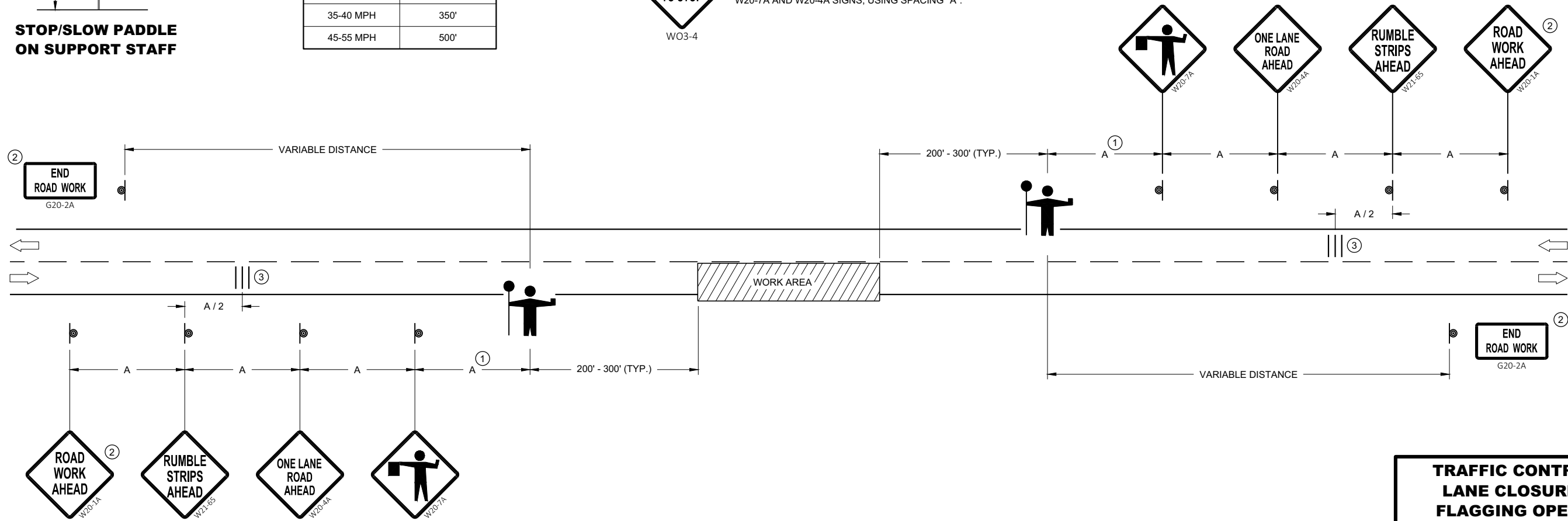
**STOP/SLOW PADDLE ON SUPPORT STAFF**

**SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE**

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



**TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION**

**TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
DATE May 2019 /S/ Andrew Heidtke  
WORK ZONE ENGINEER

FHWA





6

6

SDD 15C12 - 07

SDD 15C12 - 07

**LEGEND**

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (CAUTION)

**GENERAL NOTES**

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

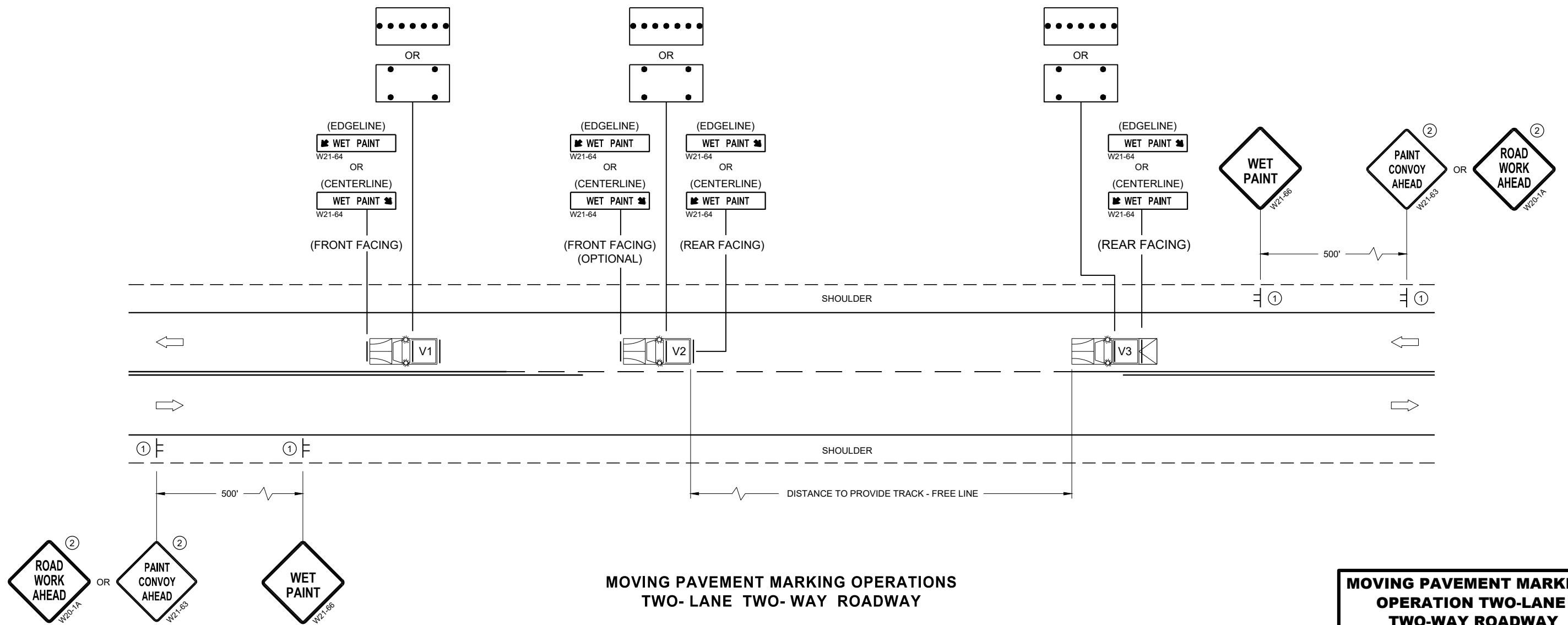
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING.

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

6

6

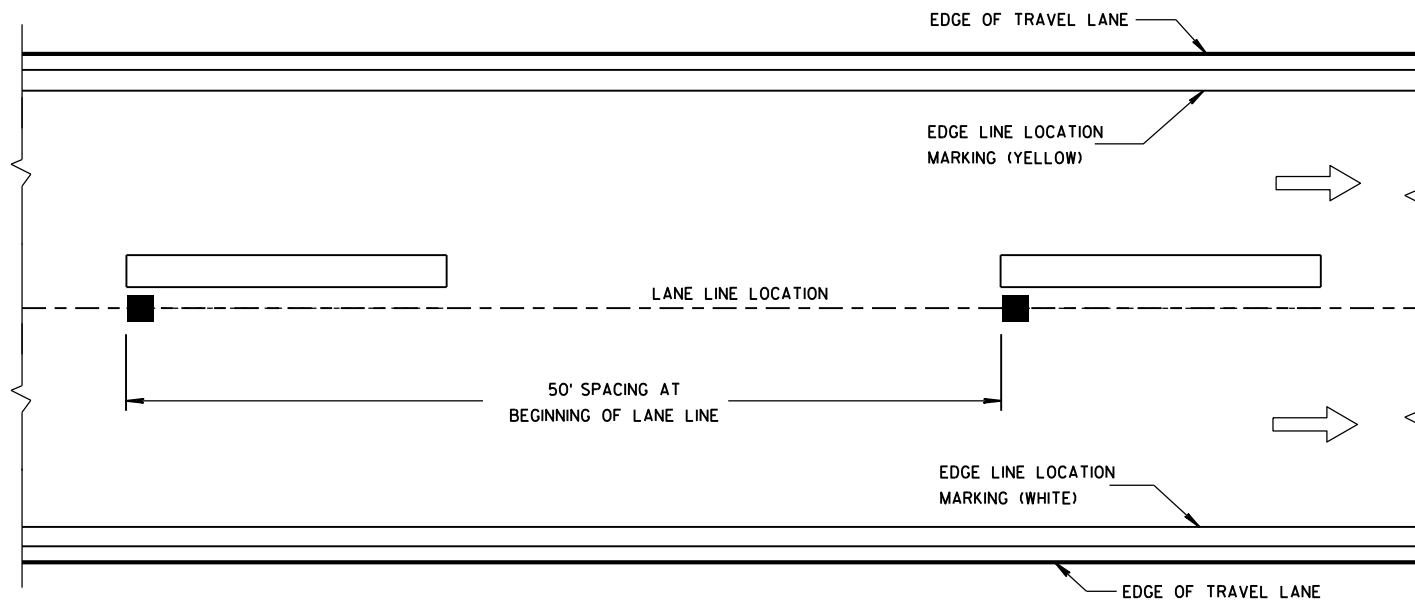


**MOVING PAVEMENT MARKING OPERATIONS  
TWO-LANE TWO-WAY ROADWAY**

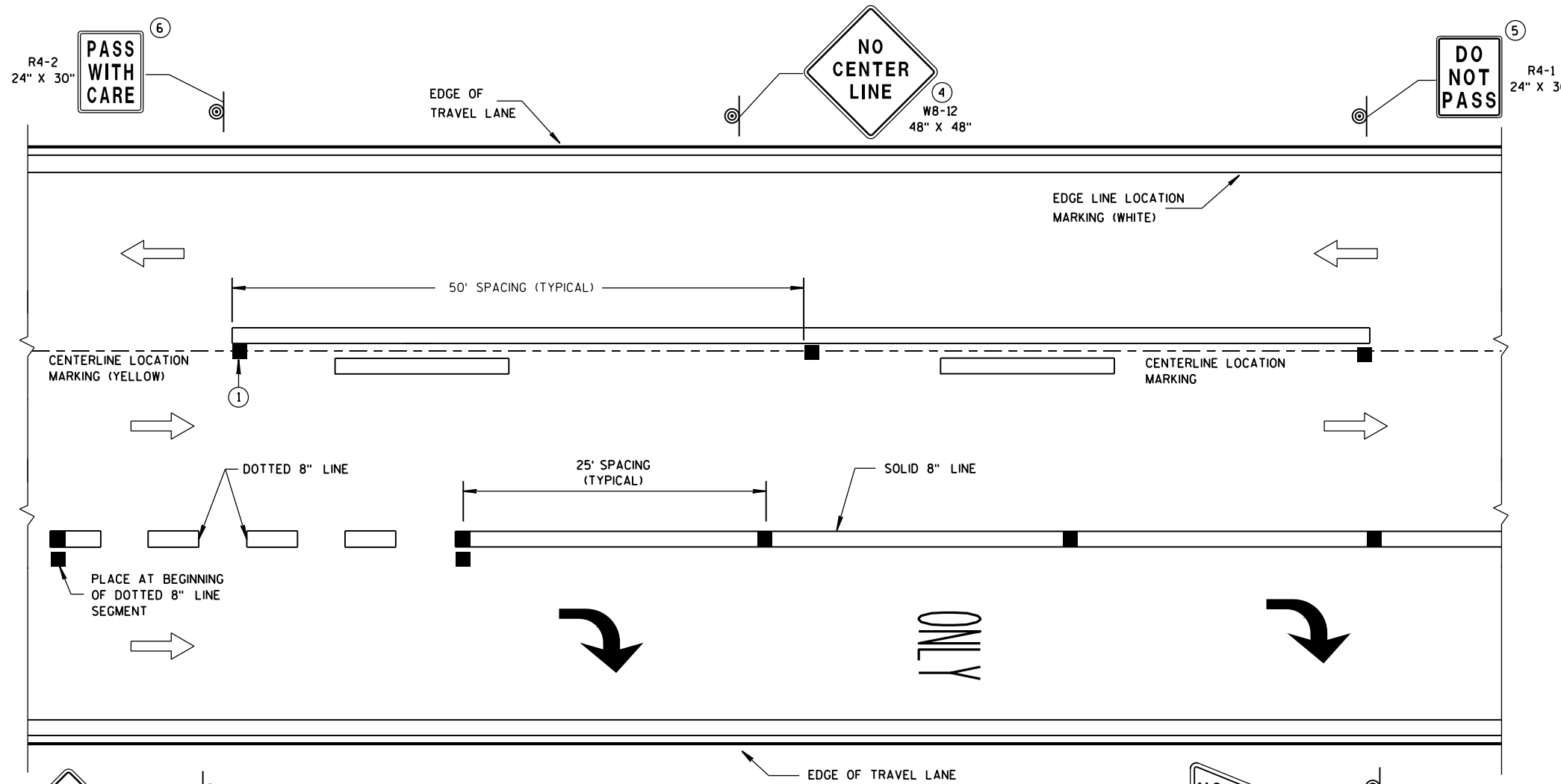
SDD 15C19 - 06a

SDD 15C19 - 06a

<b>MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2019 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



**LONGITUDINAL PLACEMENT 4-INCH LANE LINE**



**LONGITUDINAL PLACEMENT 4-INCH CENTERLINE AND 8-INCH CHANNEL LINE**

**GENERAL NOTES**

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

COLOR OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II SHALL MATCH THE COLOR OF THE MARKING THEY SUPPLEMENT.

PLACEMENT OF TEMPORARY RAISED PAVEMENT MARKERS ON EDGE LINES ARE OPTIONAL. IF PLACED ON EDGE LINES, MAXIMUM SPACING SHALL BE 50 FEET.

PROVIDE SINGLE OR MULTI-COVER TEMPORARY RAISED PAVEMENT MARKERS AS SHOWN ON PLAN.

MARK T's ON PAVEMENT FOR RE-ESTABLISHING NO PASSING ZONES.

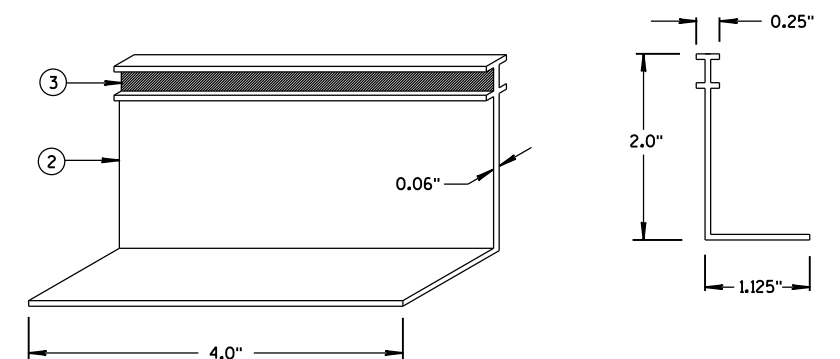
SAME DAY TEMPORARY PAVEMENT MARKING MAY BE USED IN LIEU OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF TEMPORARY SAME DAY PAVEMENT MARKING IS USED, ENSURE PROPOSED PAVEMENT MARKINGS ARE PLACED IN THE EXACT LOCATIONS AS THE EXISTING MARKINGS, USING A MINIMAL AMOUNT OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II OR OTHER METHODS AS APPROVED BY THE ENGINEER.

IF ROADWAY IS DETOURED DURING CONSTRUCTION, THE DO NOT PASS, PASS WITH CARE AND NO CENTERLINE SIGNS MAY BE OMITTED, PROVIDED A LIQUID MARKING IS INSTALLED BEFORE THE ROADWAY IS REOPENED TO TRAFFIC.

- ① FOR DOUBLE SOLID YELLOW, PLACE THE MARKERS BETWEEN THE LINES.
- ② MARKERS SHALL BE OF POLYURETHANE MATERIAL.
- ③ MARKERS SHALL HAVE A MINIMUM SIZE REFLECTIVE SURFACE OF 4 INCH WIDTH X 0.25 INCH HEIGHT.
- ④ NO CENTER LINE SIGNS SHALL BE PLACED AT THE BEGINNING OF PROJECT, AT TWO-MILE INTERVALS AND AFTER STATE AND COUNTY HIGHWAY INTERSECTIONS.
- ⑤ DO NOT PASS SIGNS SHALL BE INSTALLED AT THE BEGINNING OF NO PASSING ZONES. ADDITIONAL DO NOT PASS SIGNS SHALL BE INSTALLED AT ONE MILE INTERVALS AND AFTER STATE AND COUNTY HIGHWAY INTERSECTIONS WITHIN THE NO PASSING ZONE.
- ⑥ PASS WITH CARE SIGNS SHALL BE PLACED AT THE DOWNSTREAM END OF NO PASSING ZONES.



**ISOMETRIC VIEW**                      **SIDE VIEW**  
**TEMPORARY RAISED PAVEMENT MARKER, TYPE II**

**LEGEND**

- TEMPORARY RAISED PAVEMENT MARKER, TYPE II
- ⊙ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ➔ DIRECTION OF TRAVEL

<b>STANDARD APPLICATION FOR TEMPORARY RAISED PAVEMENT MARKERS, TYPE II</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6-2017	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

6

6

S.D.D. 15 C 34-3

S.D.D. 15 C 34-3

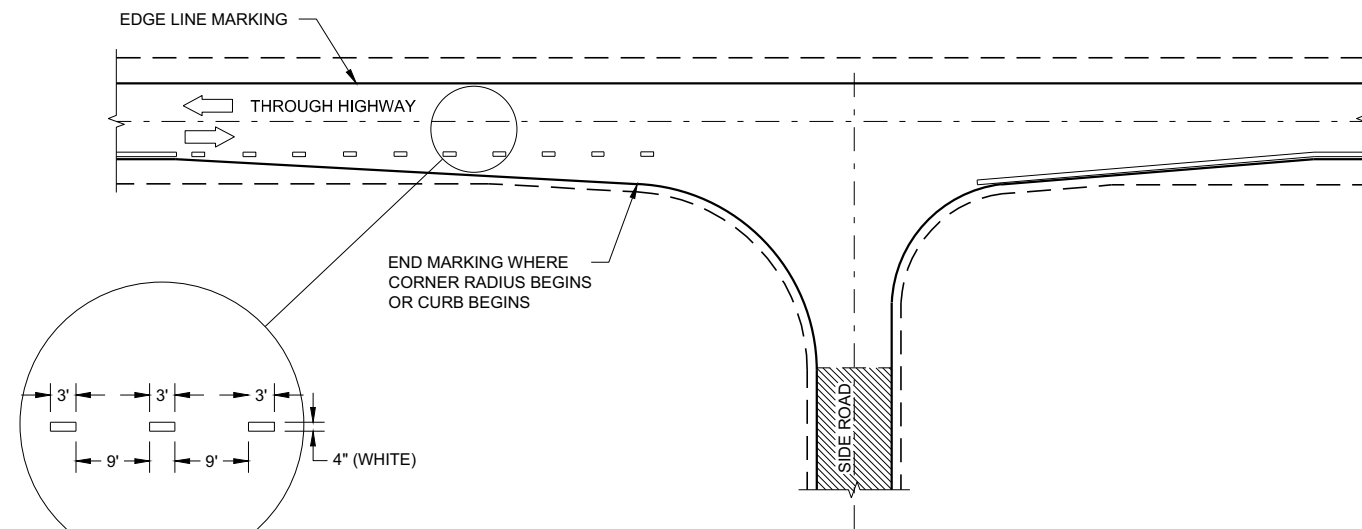
**GENERAL NOTES**

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

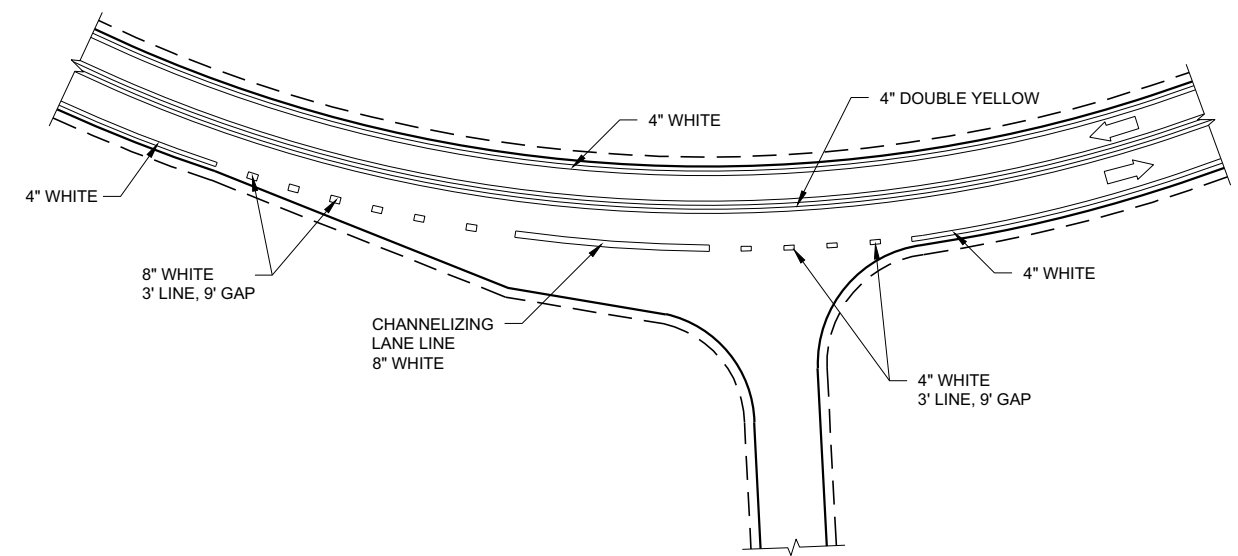
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

**LEGEND**

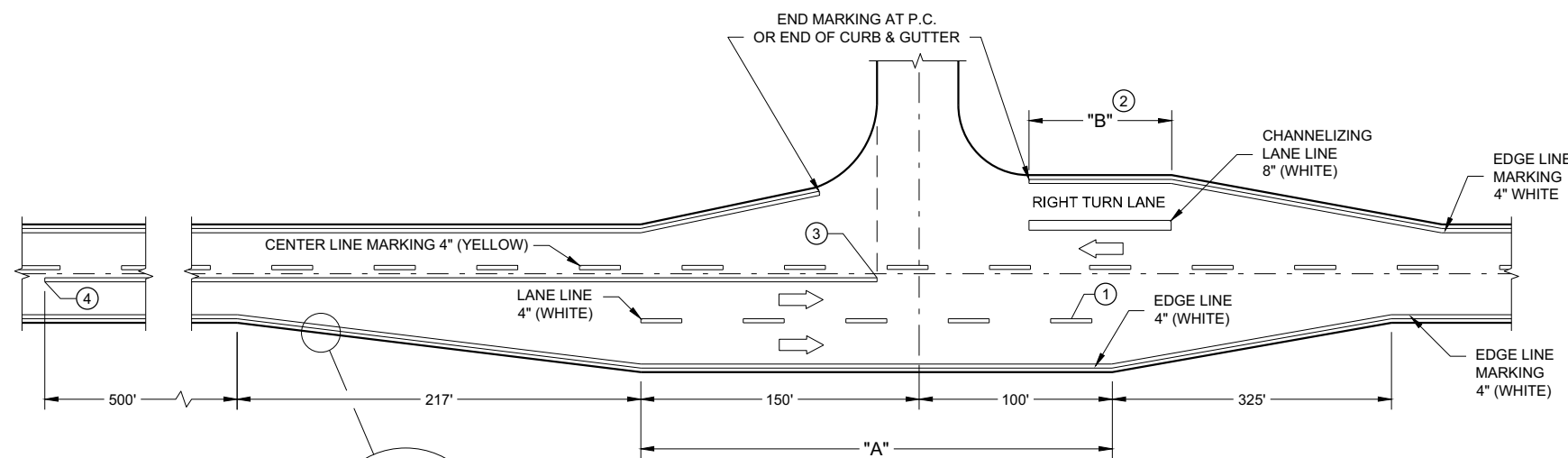
➡ DIRECTION OF TRAVEL



**MINOR INTERSECTION**



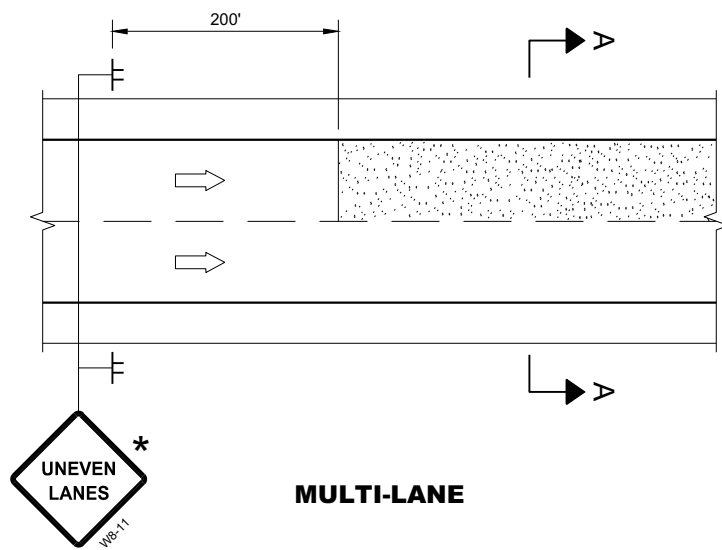
**INTERSECTION ON OUTSIDE OF CURVE**



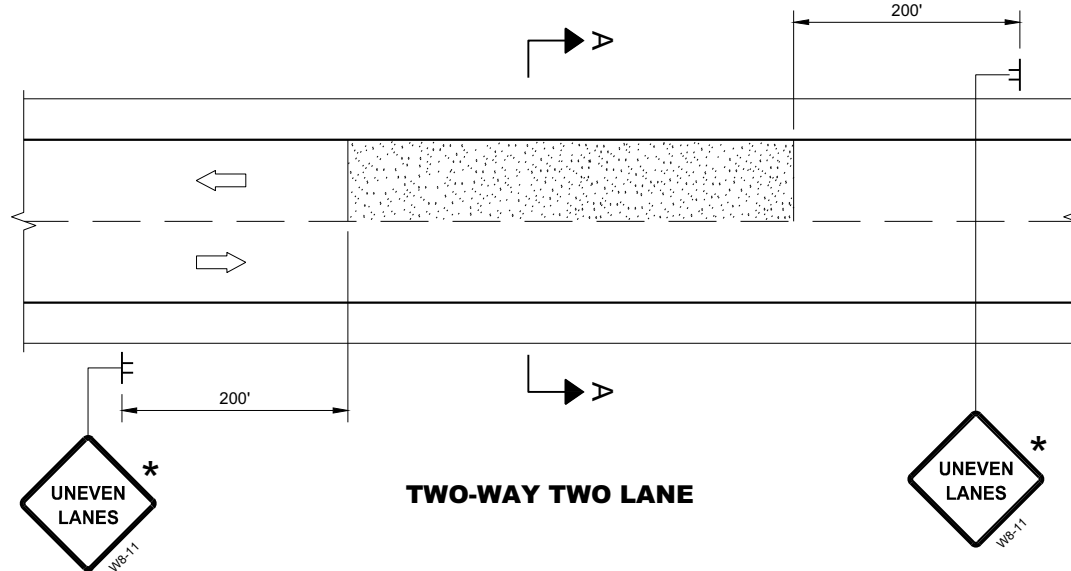
**MAJOR INTERSECTIONS  
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)**

**PAVEMENT MARKING  
(INTERSECTIONS)**

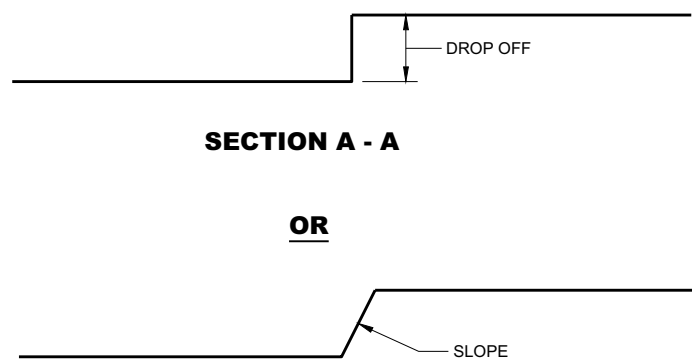
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



**MULTI-LANE**



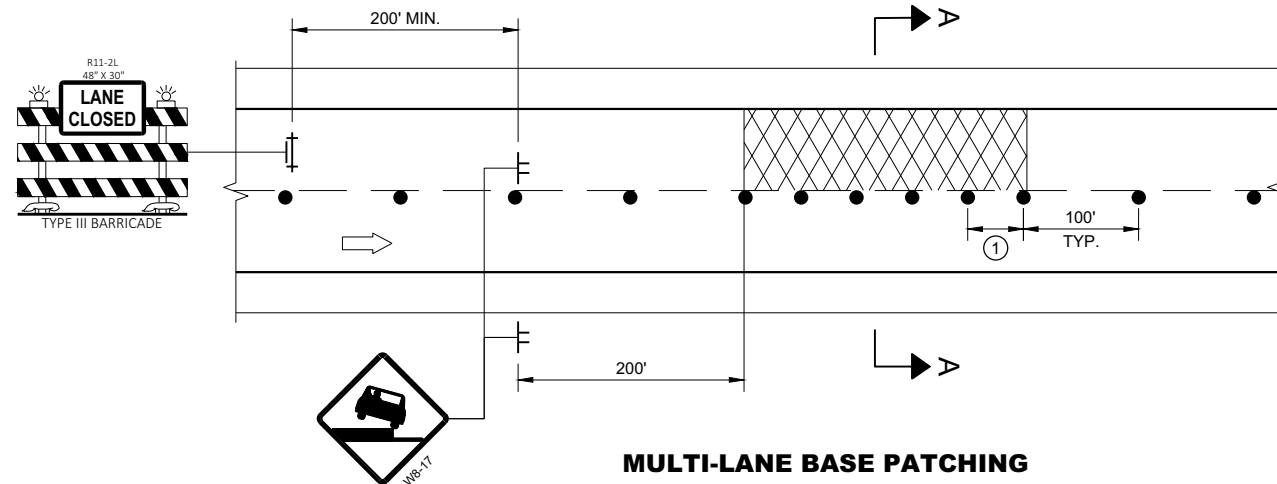
**TWO-WAY TWO LANE**



**SECTION A - A**

OR

**SECTION A - A**



**MULTI-LANE BASE PATCHING**

**ADJACENT LANE DROP-OFFS**

**GENERAL NOTES**

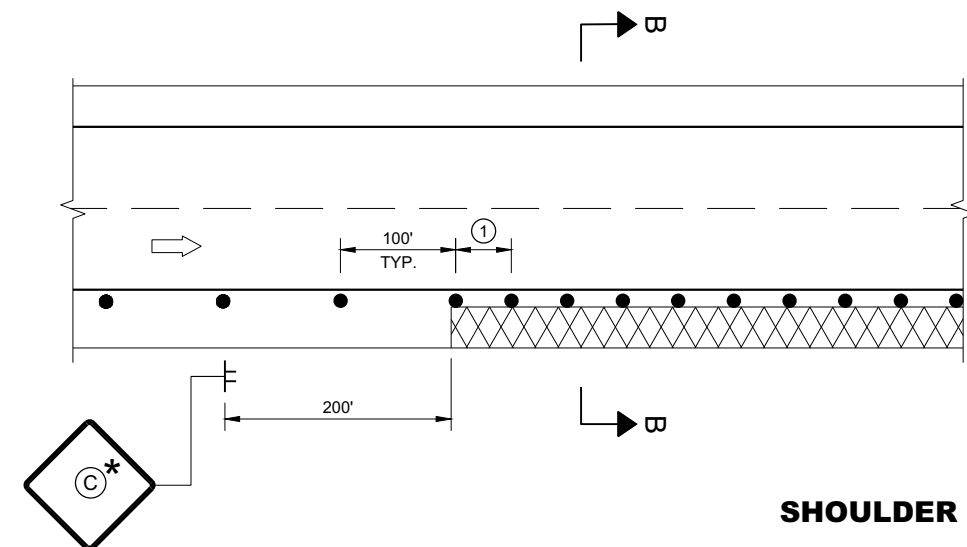
- FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.
- \* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.
- ① USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

**LEGEND**

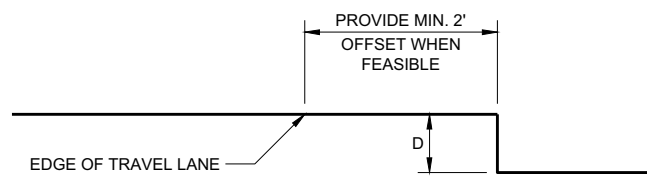
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

6

6



**SHOULDER DROP-OFFS**



**SECTION B - B**

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

SDD 15D39 - 02

SDD 15D39 - 02

**TRAFFIC CONTROL,  
DROP-OFF SIGNING**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
March 2018 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

FHWA

**GENERAL NOTES**

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

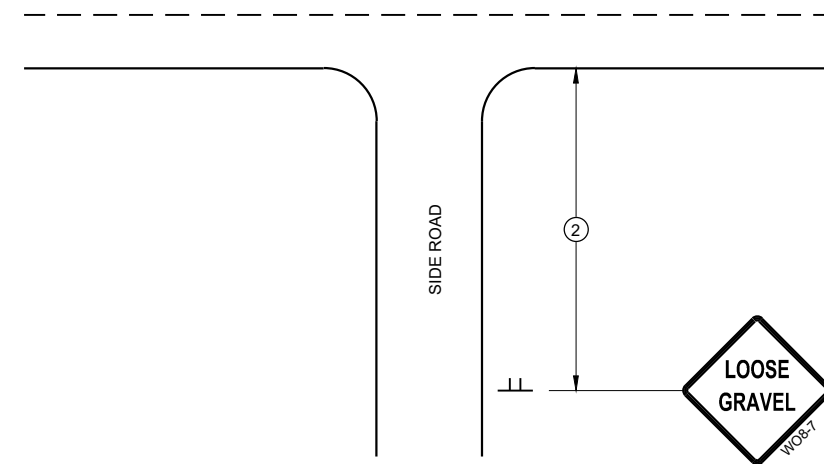
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

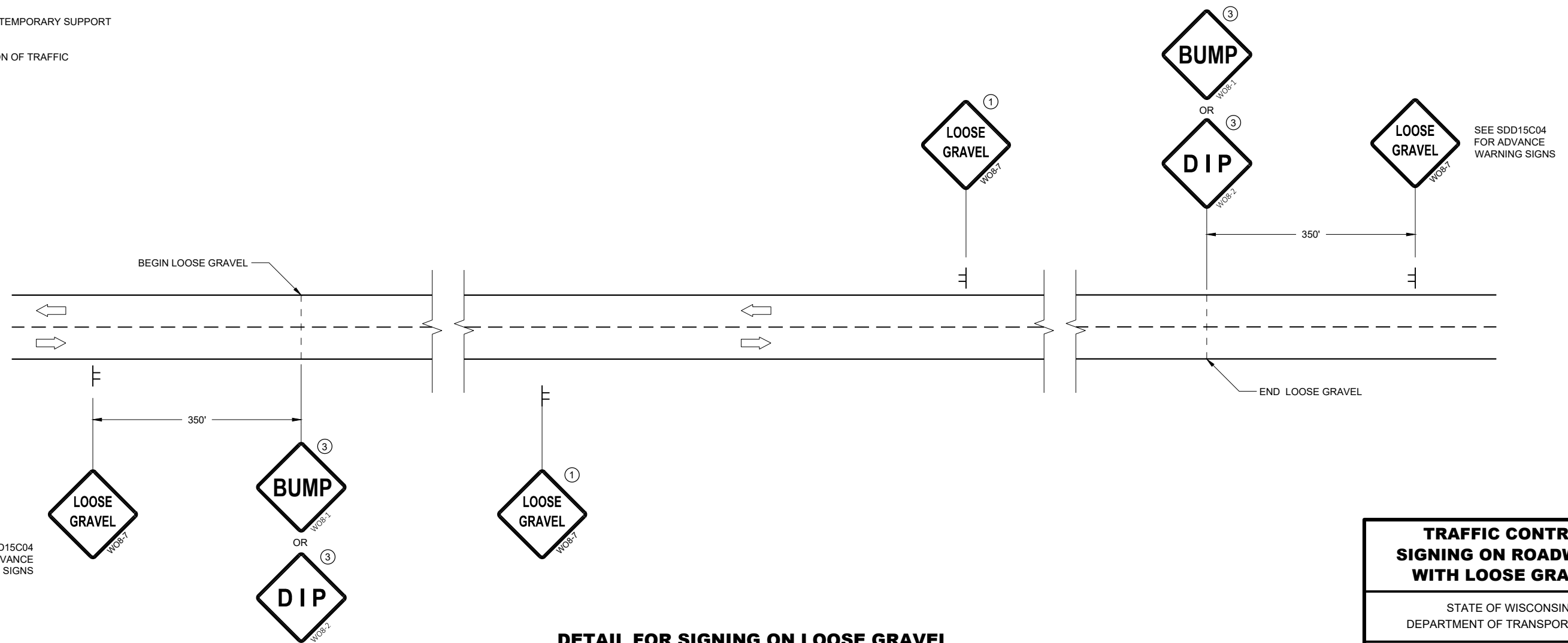
- ① PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- ② PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.
- ③ ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

**LEGEND**

- ⊥ SIGN ON TEMPORARY SUPPORT
- ➡ DIRECTION OF TRAFFIC



**TYPICAL SIDE ROAD APPROACH SIGN DETAIL**



**DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES**

SEE SDD15C04 FOR ADVANCE WARNING SIGNS

**TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL**

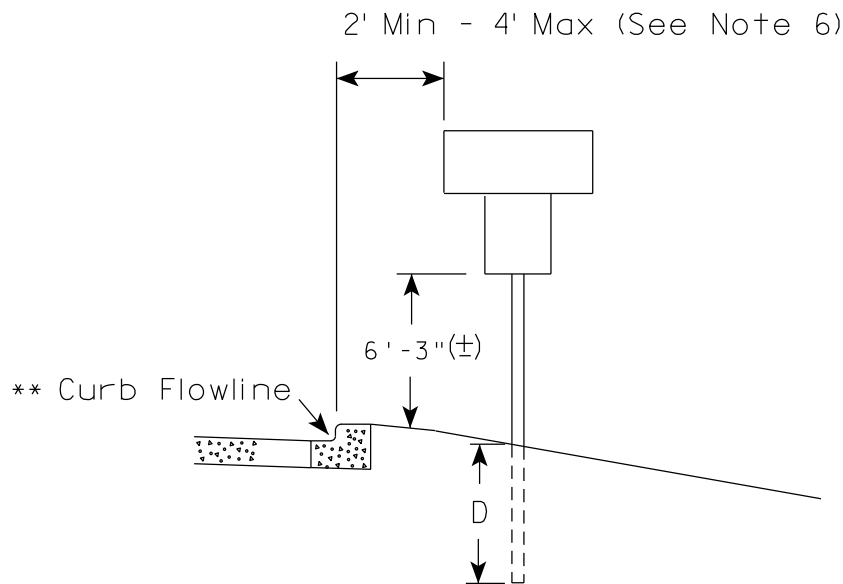
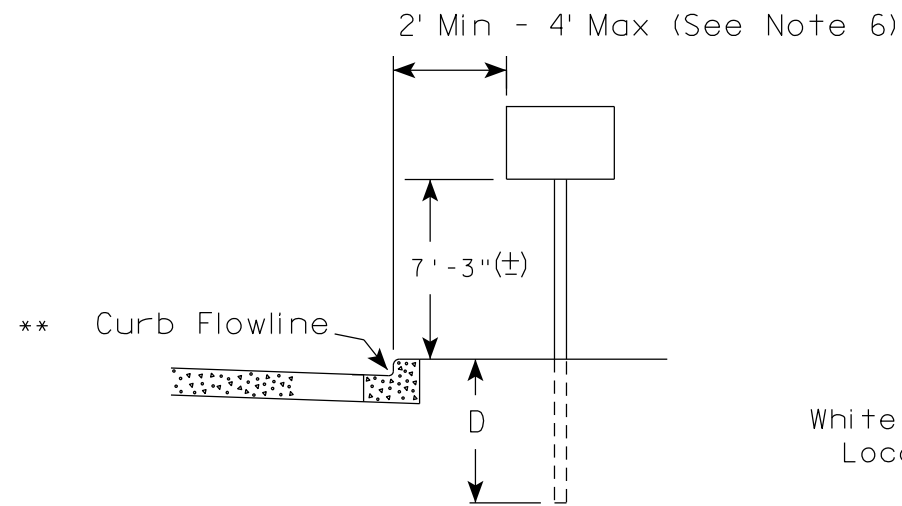
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2021 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

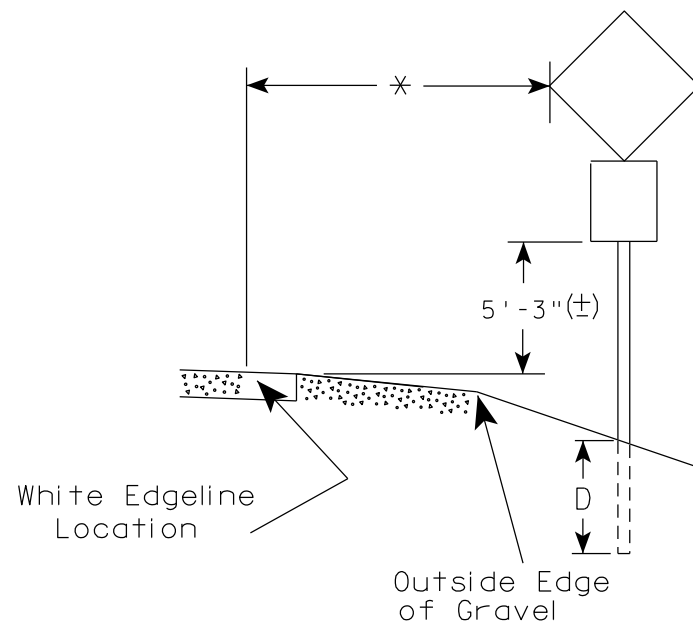
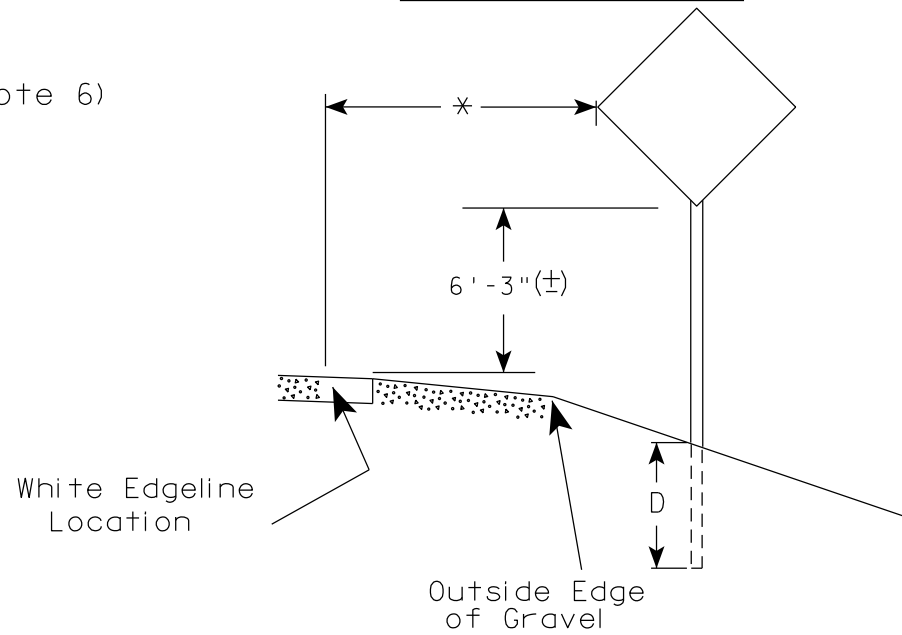
FHWA



URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.  
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation ( Sq. Ft. )	D ( Min )
20 or Less	4'
Greater than 20	5'

\* \* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22



**ELEVATION VIEW**

**DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT**

- NOTES:**
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
  2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
  3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



**ELEVATION VIEW**

**DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT**



**PLAN VIEW**

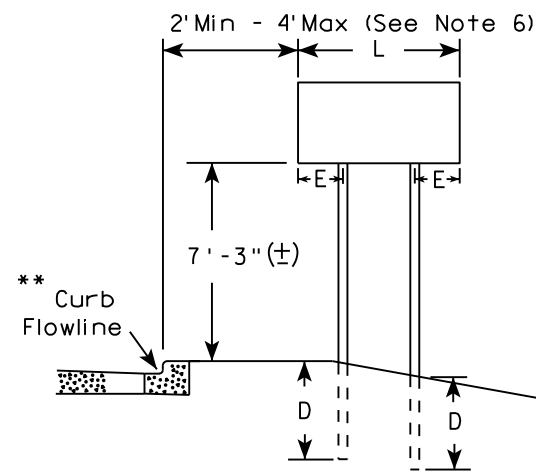
**FOR NEW CONCRETE/ ASPHALT INSTALLATIONS**

<b>SIGN POST BOX-OUTS A4-3B</b>	
<small>WISCONSIN DEPT OF TRANSPORTATION</small>	
APPROVED <i>Matthew R. Rauch</i> <small>for State Traffic Engineer</small>	
<small>DATE 1/27/14</small>	<small>PLATE NO. A4-3B.1</small>

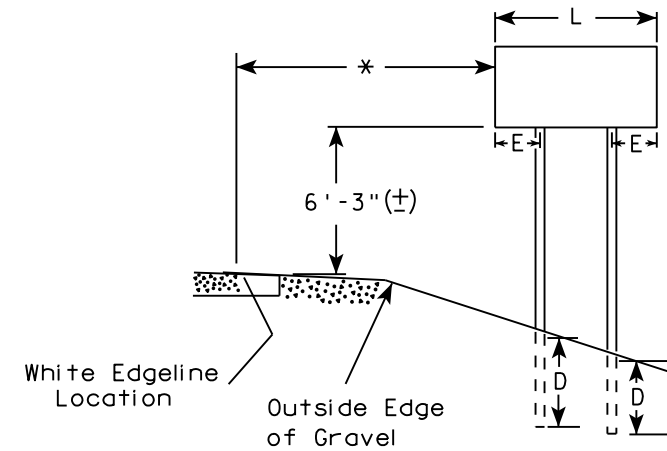
GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

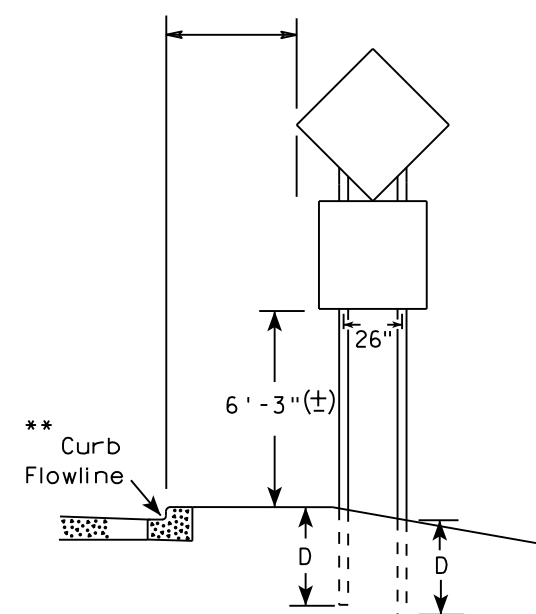
URBAN AREA



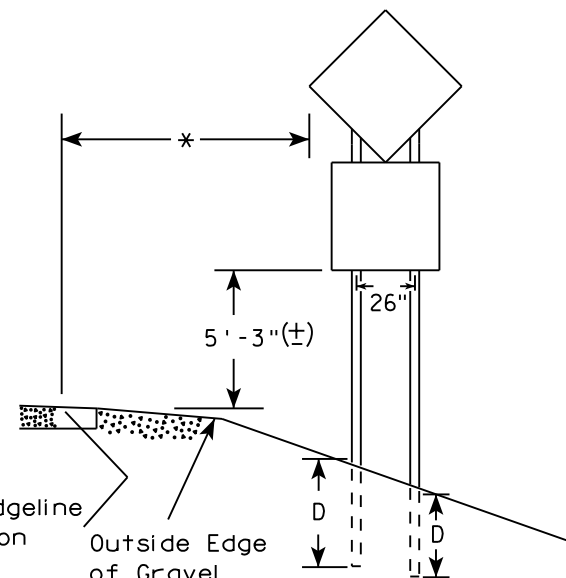
RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

\*\*\* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

\*\*\*

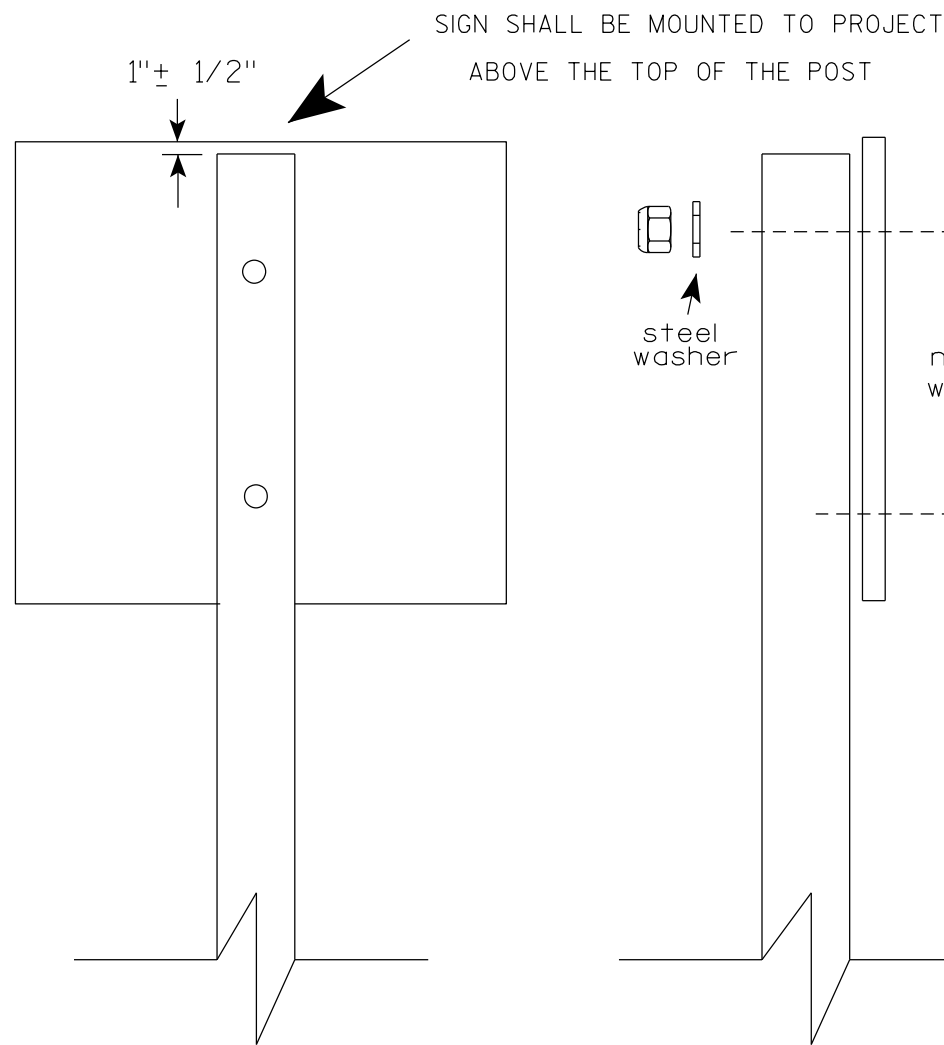
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

Area of Sign Installation ( Sq. Ft. )	D ( Min )
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION  
 APPROVED *Matthew R. Rauch*  
 For State Traffic Engineer  
 DATE 8/21/17 PLATE NO. A4-4.15



SIGN SHALL BE MOUNTED TO PROJECT  
ABOVE THE TOP OF THE POST

1"± 1/2"

steel washer

nylon washer

steel washer

\*

\*

Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)  
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)  
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL  
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

\* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS  
TO POSTS

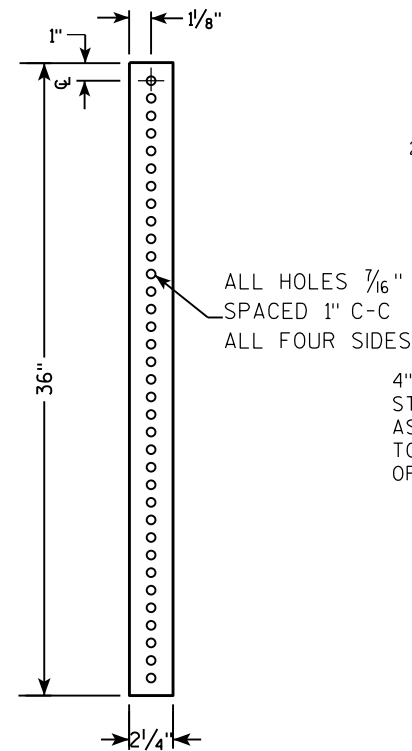
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*  
For State Traffic Engineer

DATE 4/1/2020 PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS  
TWO PIECE SYSTEM**

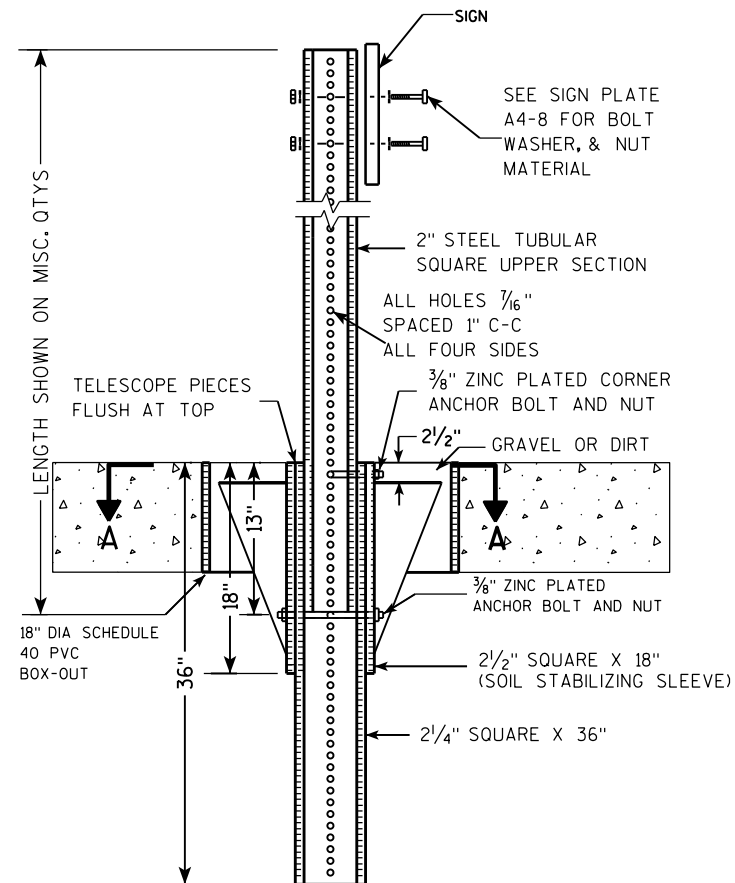
2 1/4" SQUARE  
12 GAUGE  
PERFORATED  
GALVANIZED FINISH



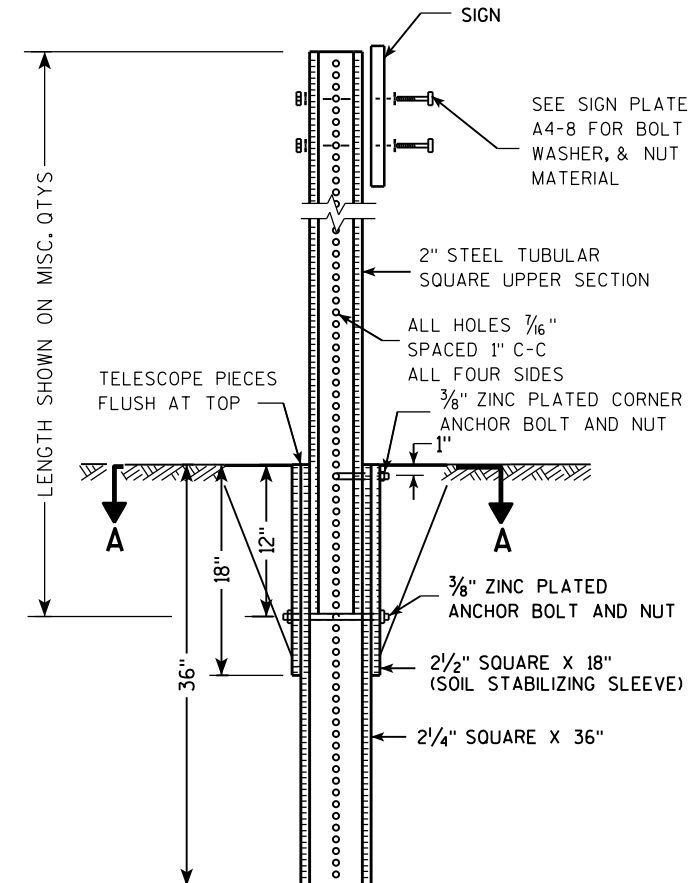
2 1/2" SQUARE  
12 GAUGE  
OMNI-DIRECTIONAL  
PERFORATED  
SOIL STABILIZING SLEEVE  
GALVANIZED FINISH



**DETAIL OF TUBULAR STEEL SIGN POST  
(IN POURED CONCRETE OR ASPHALT)**



**DETAIL OF TUBULAR STEEL SIGN POST  
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)**



Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

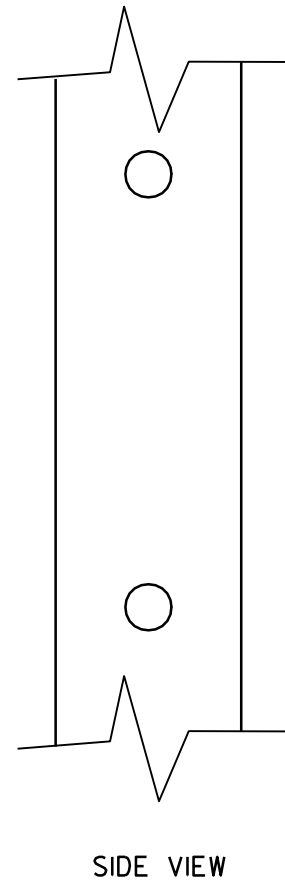
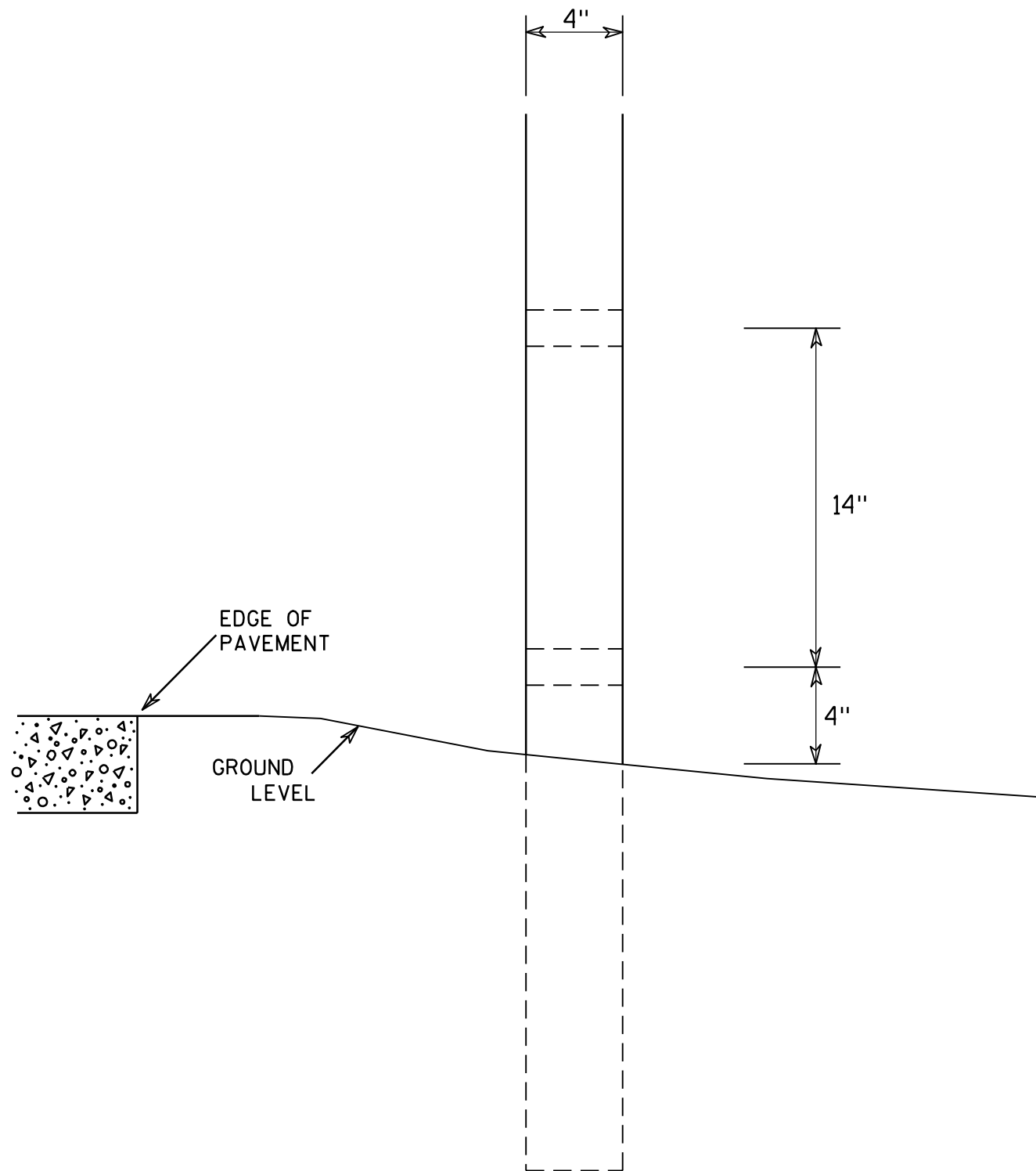
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**TUBULAR STEEL  
SIGN POST  
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9

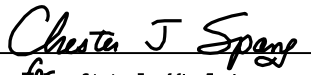


GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

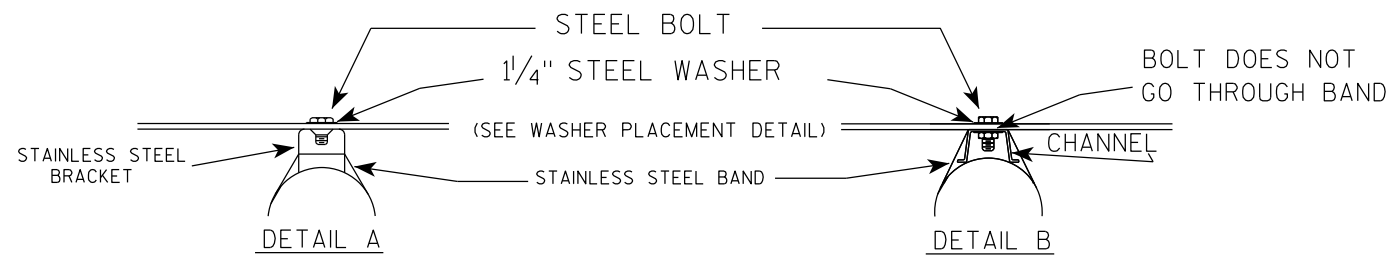
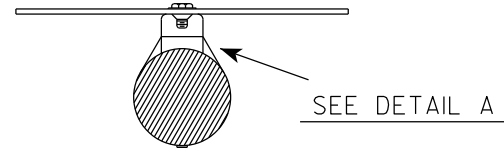
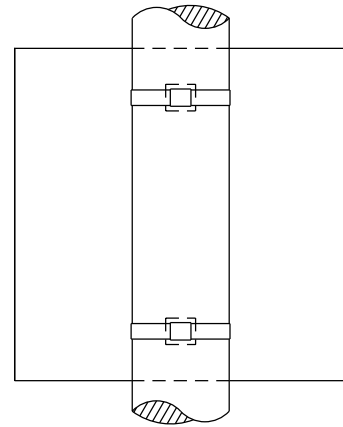
7

7

<b>4 X 6 WOOD POST MODIFICATIONS</b>	
<i>WISCONSIN DEPT OF TRANSPORTATION</i>	
APPROVED	 <i>for</i> State Traffic Engineer
DATE <u>3/27/97</u>	PLATE NO. <u>A4-11.2</u>

# BANDING

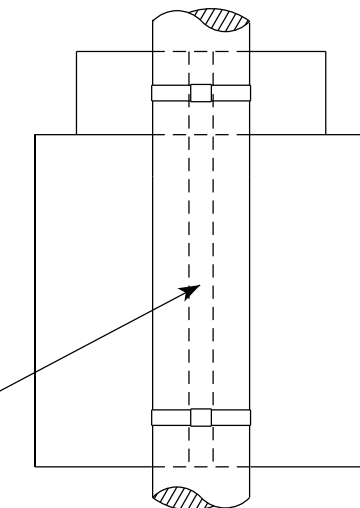
SINGLE SIGN



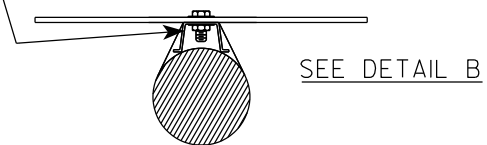
## GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

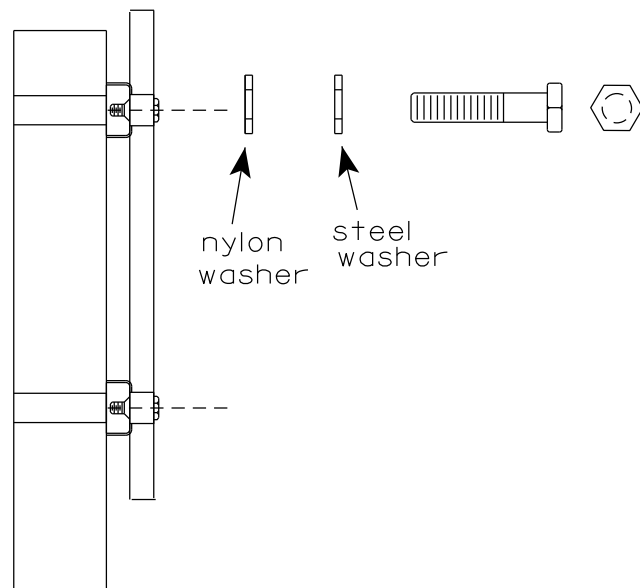
"J" ASSEMBLY



CHANNEL  
SEE TYPICAL PANEL  
INSTALLATION SHEET

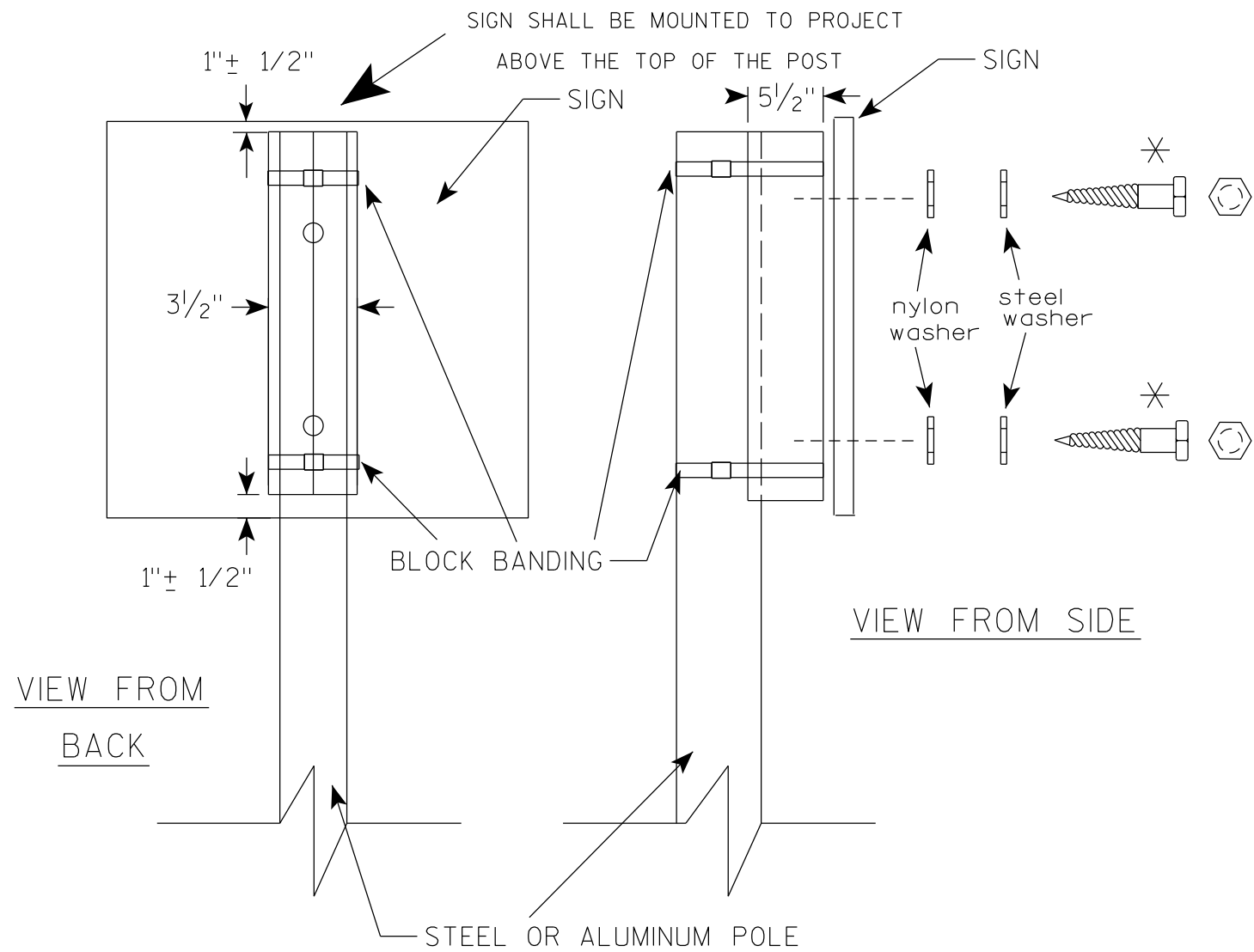


WASHER PLACEMENT



WASHERS (ALL POSTS) -  
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL  
1-1/4" O.D. X 3/8" I.D. X .080 NYLON  
FOR ALL TYPE H SIGNS

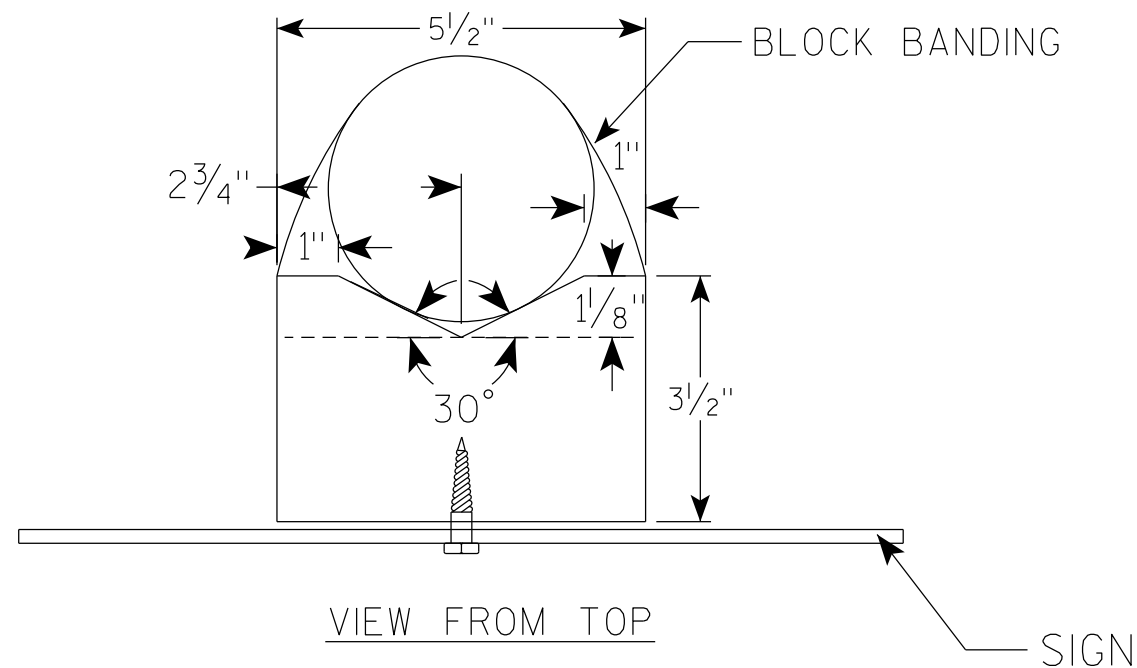
STANDARD SIGN  
SIGN BANDING DETAILS  
WISCONSIN DEPT OF TRANSPORTATION  
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer  
DATE 6/10/19 PLATE NO. A5-9.4



GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"

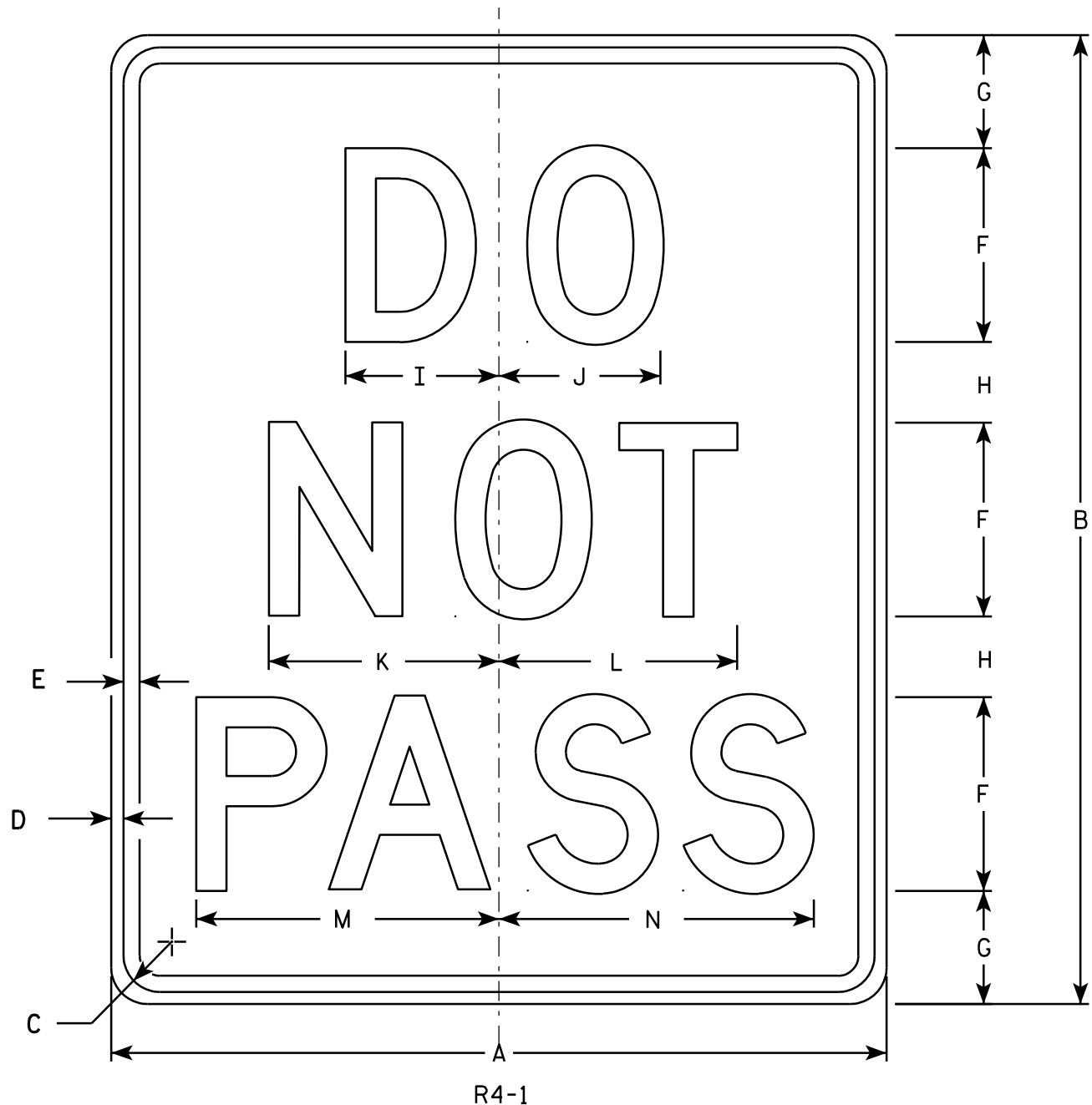


BLOCK BANDING DETAIL ( V-BLOCK OPTION )	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R Rauch</i> for State Traffic Engineer
DATE 6/10/19	PLATE NO. A5-10.2



**NOTES**

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - White  
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 1/8	12 1/4	15 5/8	16 1/4													20.0

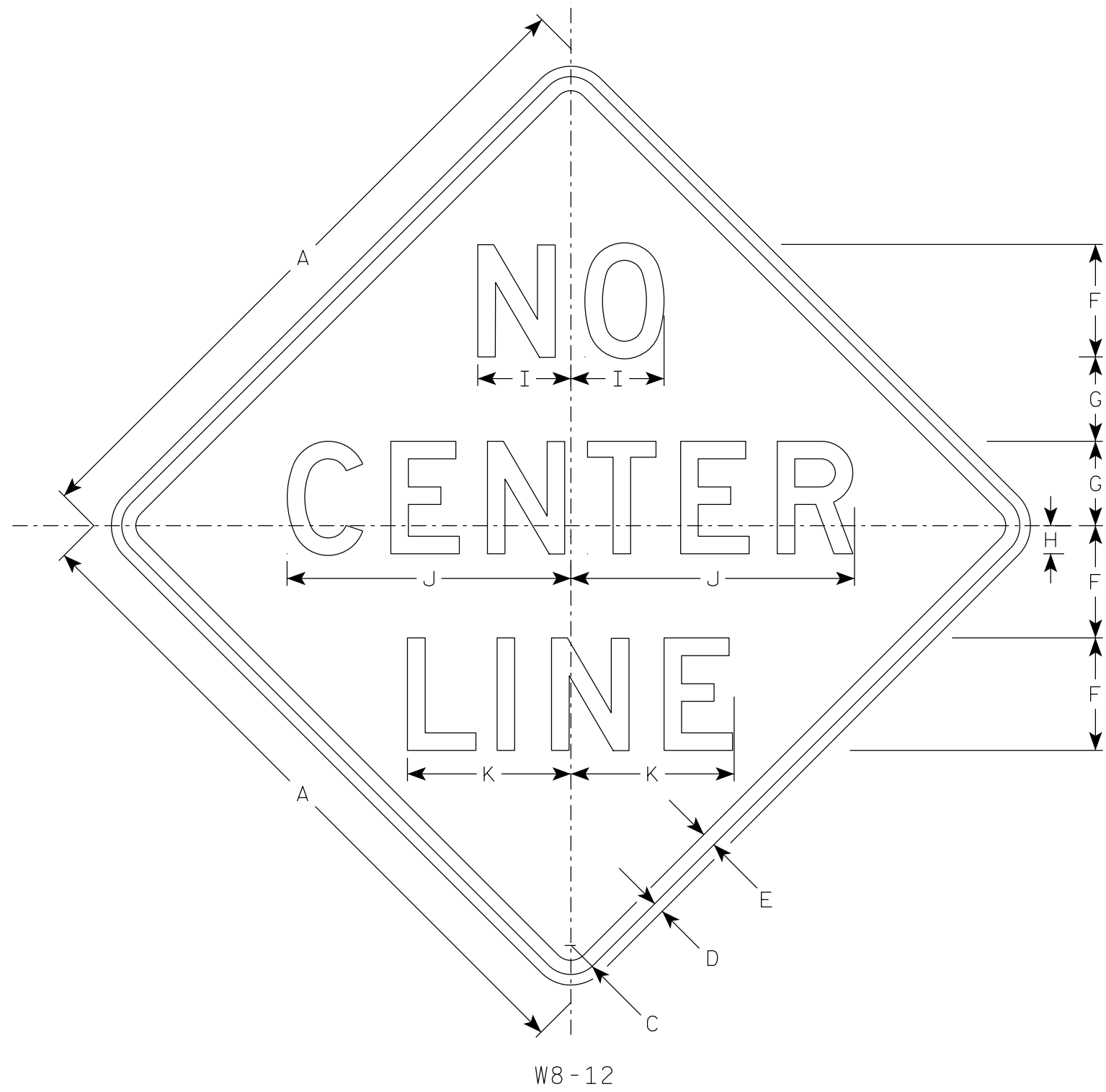
**STANDARD SIGN**  
R4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-1.7

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: \_\_\_\_\_ E



NOTES

1. Sign is Type II - Type F Reflective
2. Color:  
Background - Orange  
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	4 1/2	1 1/2	5 1/8	16	9																9.0
2S	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
2M	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
3	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
4	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
5	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0

STANDARD SIGN  
W8-12

WISCONSIN DEPT OF TRANSPORTATION

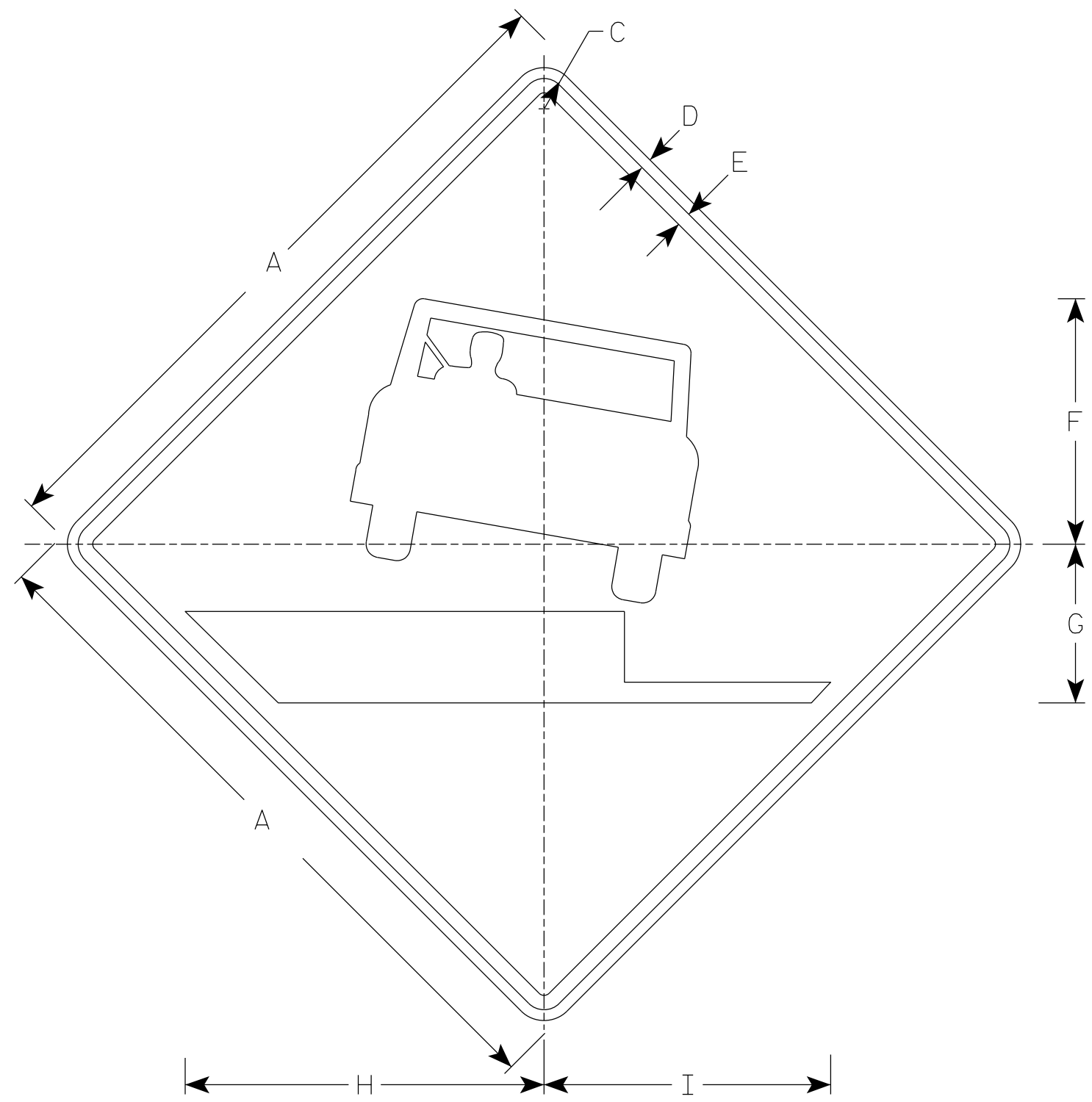
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 4/30/2020 PLATE NO. W8-12.4

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
  - Background - Orange
  - Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W8-17

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12 3/4	8 1/4	18 5/8	14 7/8																		9.0
2S	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0
2M	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0
3	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0
4	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0
5	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0

STANDARD SIGN  
W8-17

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 4/16/2020 PLATE NO. W8-17.2

7

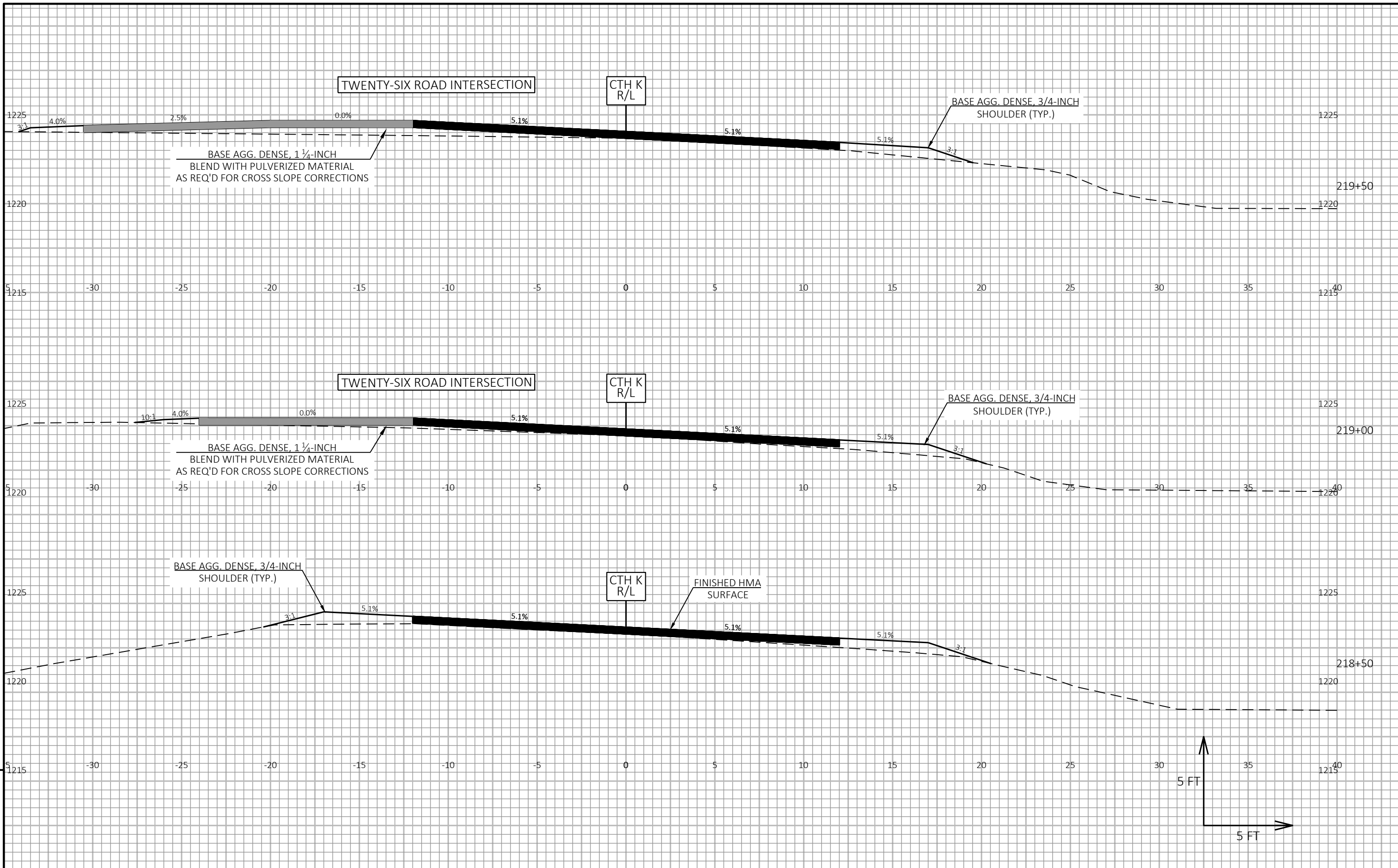
7

**EARTHWORK SUMMARY**

From/To Station	Location	205.0100 Common Excavation (1)	Unexpanded Fill (3)	Waste (4)
		Cut (2) CY	CY	CY
<b>PROJECT ID 7864-03-72</b>				
218+50 - 220+50	TWENTY-SIX RD/ CTH K INTERSECTION	0	27	0
233+50 - 235+50	26TH RD/ CTH K INTERSECTION	0	11	0
244+00 - 247+00	OLD K/ CTH K INTERSECTION	0	47	0
248+00 - 251+50, LT	CTH K	0	26	0
248+00 - 251+50, RT	CTH K	93	0	93
PROJECT ID 7864-03-72 TOTAL		93	111	93
<b>TOTAL</b>		93	111	93

Notes:

- (1) Common Excavation is the sum of the Cut column. Item number 205.0100 (excludes existing asphaltic pavement).
- (2) Existing base under the pulverized pavement and shoulder excavation.
- (3) Base Aggregate Dense, 1 1/4-inch, Item 305.0120.
- (4) Waste Material is existing base and Shoulder Excavation.



PROJECT NO: 7864-03-72

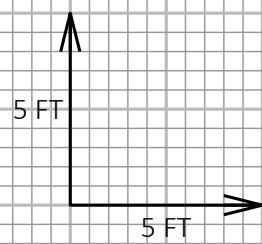
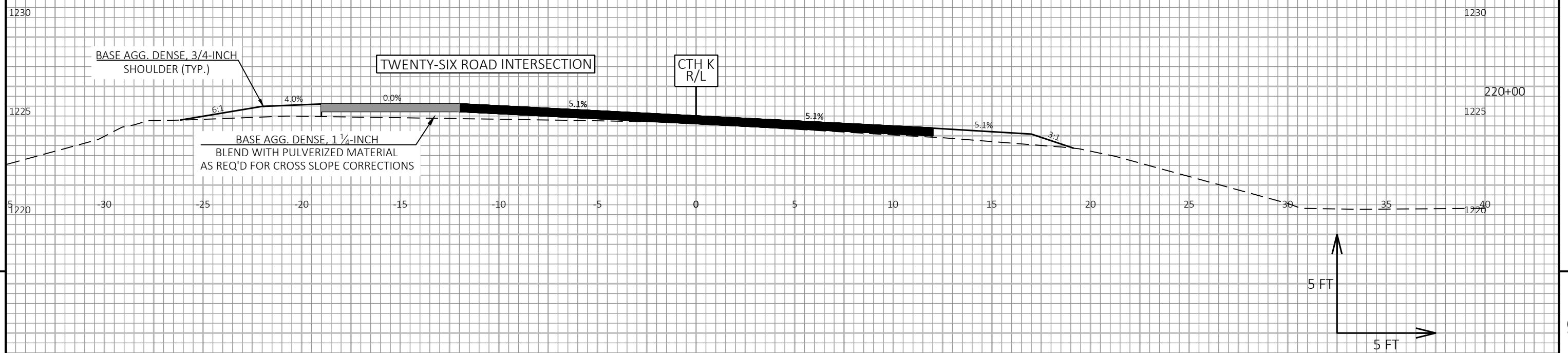
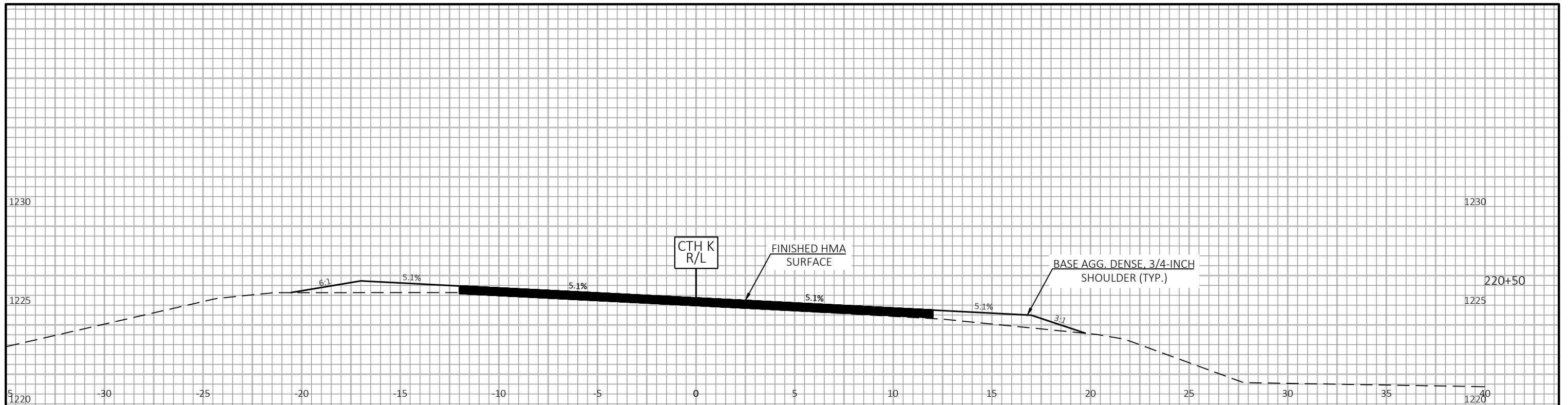
HWY: CTH K

COUNTY: CLARK

CROSS SECTIONS: TWENTY-SIX RD INTERSECTION

SHEET

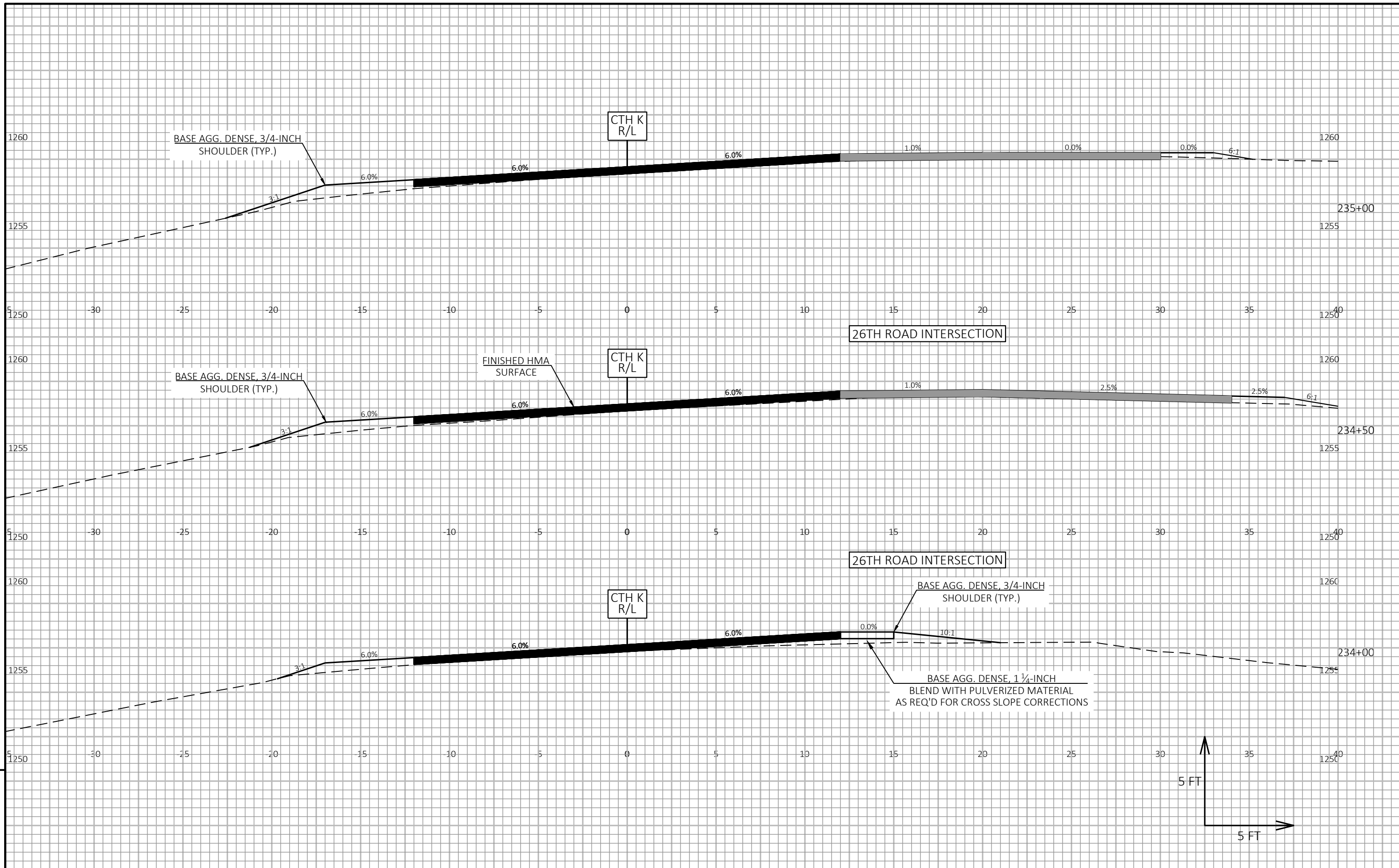
E



9

9

PROJECT NO: 7864-03-72	HWY: CTH K	COUNTY: CLARK	CROSS SECTIONS: TWENTY-SIX RD INTERSECTION	SHEET	E
------------------------	------------	---------------	--	-------	---



PROJECT NO: 7864-03-72

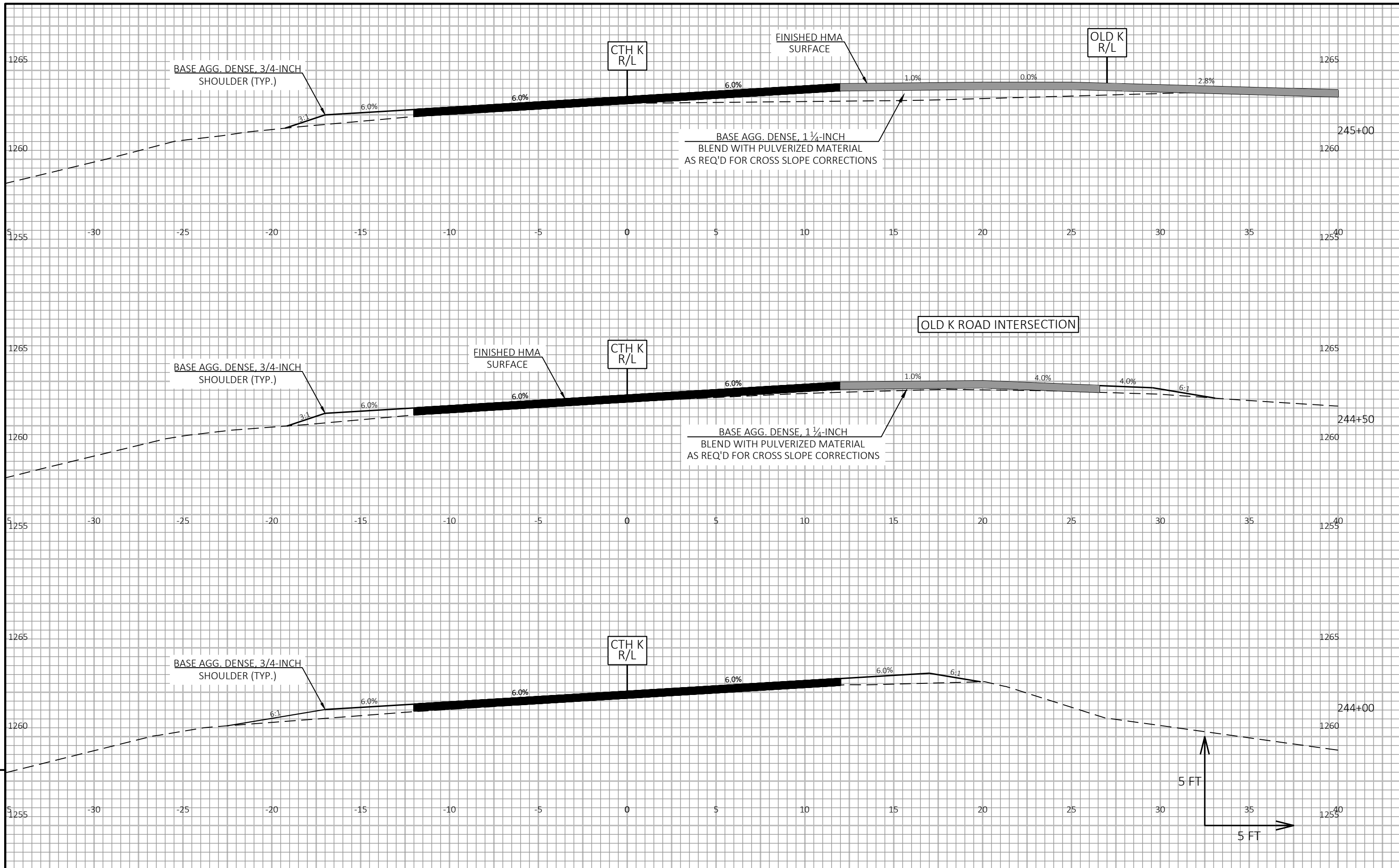
HWY: CTH K

COUNTY: CLARK

CROSS SECTIONS: 26TH RD INTERSECTION

SHEET

E



PROJECT NO: 7864-03-72

HWY: CTH K

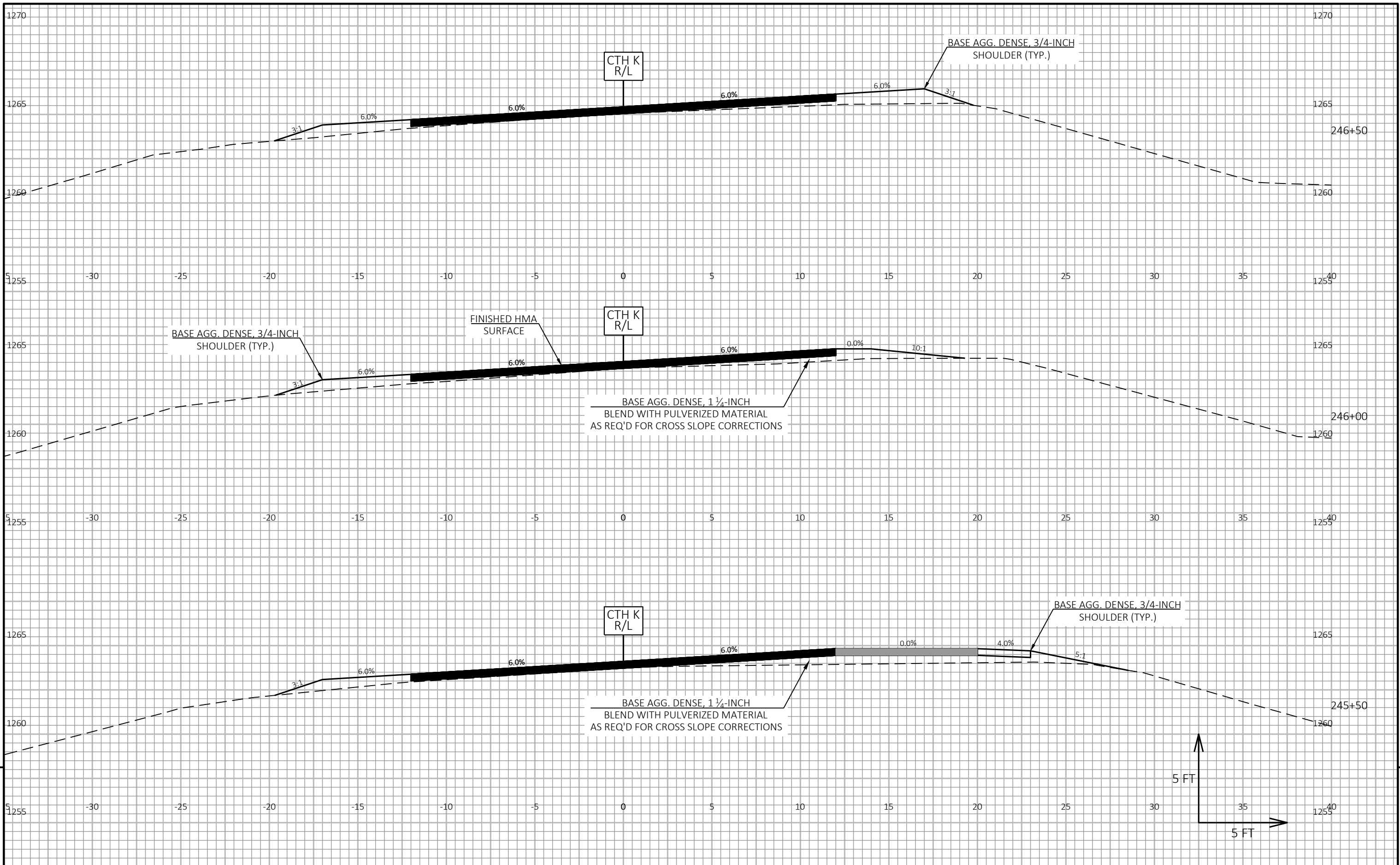
COUNTY: CLARK

CROSS SECTIONS: OLD K INTERSECTION

SHEET

E





PROJECT NO: 7864-03-72

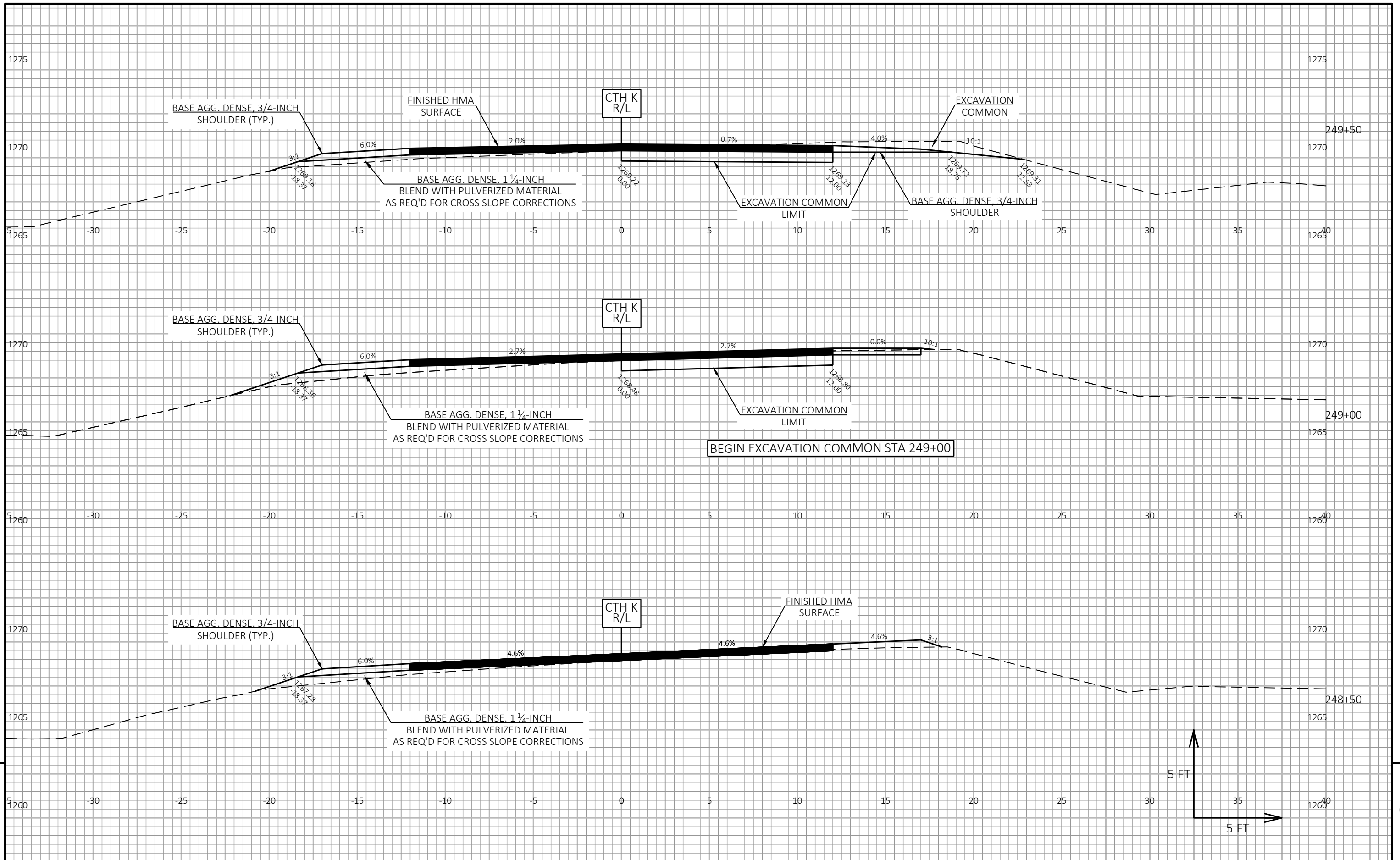
HWY: CTH K

COUNTY: CLARK

CROSS SECTIONS: OLD K INTERSECTION

SHEET

E



PROJECT NO: 7864-03-72

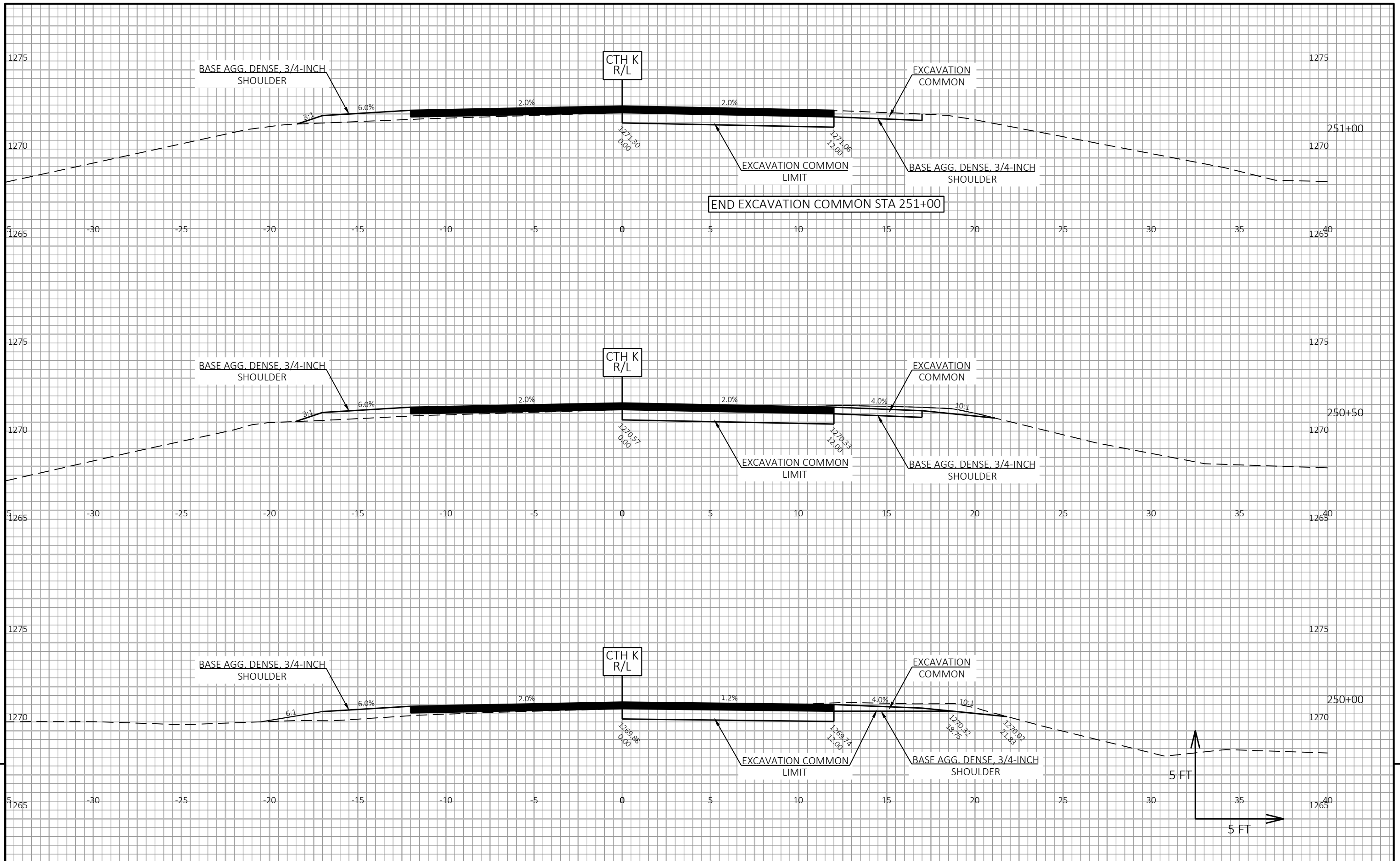
HWY: CTH K

COUNTY: CLARK

CROSS SECTIONS: SUPERELEVATION TRANSITION CORRECTION

SHEET

E



PROJECT NO: 7864-03-72

HWY: CTH K

COUNTY: CLARK

CROSS SECTIONS: SUPERELEVATION TRANSITION CORRECTION

SHEET

E



## ***Wisconsin Department of Transportation***

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>