

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.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 144



DESIGN DESIGNATION

A.A.D.T.	(2023)	=	1326
A.A.D.T.	(2043)	=	1465
D.H.V.		=	175
D.D.		=	50/50
T		=	6.4%
DESIGN SPEED		=	60 MPH
ESALS		=	190,000

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

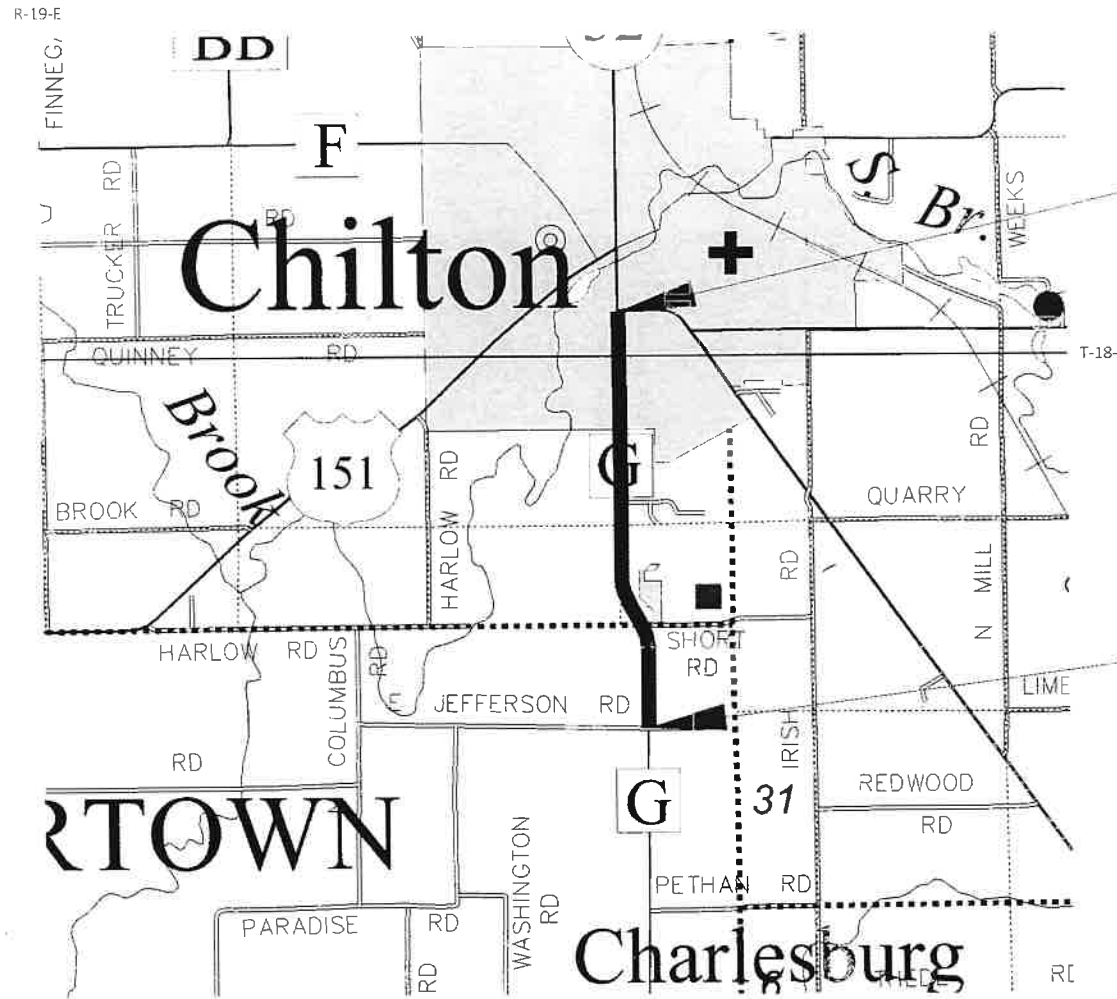
PLAN OF PROPOSED IMPROVEMENT

T BROTHERTOWN - CHILTON

E JEFFERSON RD TO W CHESTNUT ST

CTH G
CALUMET

STATE PROJECT NUMBER
4489-02-70



END PROJECT
STA 116+80.69
Y = 475696.42
X = 891688.92

BEGIN PROJECT
STA 1+00
Y = 464271.86
X = 892444.65

LAYOUT
SCALE 0 1 MI
TOTAL NET LENGTH OF CENTERLINE = 2.19 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), CALUMET 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 18A

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4489-02-70	WISC 2023037	1

APPROVED FOR
CALUMET COUNTY
HIGHWAY DEPARTMENT

8/2/22 *Brian P. Glavin*
Date Highway Commissioner

jt
ENGINEERING, INC
CORPORATE SURVEYORS

MURRAY R. GLEN
36246-006
GREEN BAY, WI

PROFESSIONAL ENGINEER

8/2/22 *Murray R. Glen*
DATE (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	jt ENGINEERING
Surveyor	jt ENGINEERING
Designer	DOUG KIRST
Project Manager	REGIONAL EXAMINER
Regional Examiner	REGIONAL SUPERVISOR
Regional Supervisor	

APPROVED FOR THE DEPARTMENT

DATE: 7/27/22 *Doug Kirst*
(Signature)

GENERAL NOTES

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

TACK COAT APPLICATION RATES ARE BASED ON 0.07 GAL/SY ON MILLED SURFACES AND 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.

EROSION CONTROL ITEMS IN THE MISCELLANEOUS QUANTITIES ARE SUGGESTED. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. MAINTAIN EROSION CONTROL ITEMS UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. PROTECT WETLANDS AND OTHER WATERWAYS THAT ARE PRESENT WITHIN THE PROJECT LIMITS.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA.

DO NOT STORE EQUIPMENT OR MATERIAL IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS, OR WATERWAYS.

THE LIMITS OF PAVEMENT ON THE SIDE ROADS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD

WISCONSIN DNR LIAISON

MR. MATT SCHAEVE
NORTHEAST REGION
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
TEL: (920) 366-1544
EMAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

DESIGN CONTACTS

RICH GLEN
1077 CENTENNIAL CENTRE BLVD
HOBART, WI 54155
PHONE: (920) 468-4771
MOBILE: (920) 606-6288
EMAIL: RICHG@JT-ENGINEERING.COM

ORDER OF DETAIL SHEETS

- GENERAL NOTES
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- INTERSECTION DETAILS
- EROSION CONTROL PLAN
- PERMANENT SIGNING AND PAVEMENT MARKING
- LIGHTING PLAN
- TRAFFIC CONTROL PLAN
- DETOUR PLAN

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			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 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .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 = 17.55 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 10.88 ACRES



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

UTILITY CONTACTS

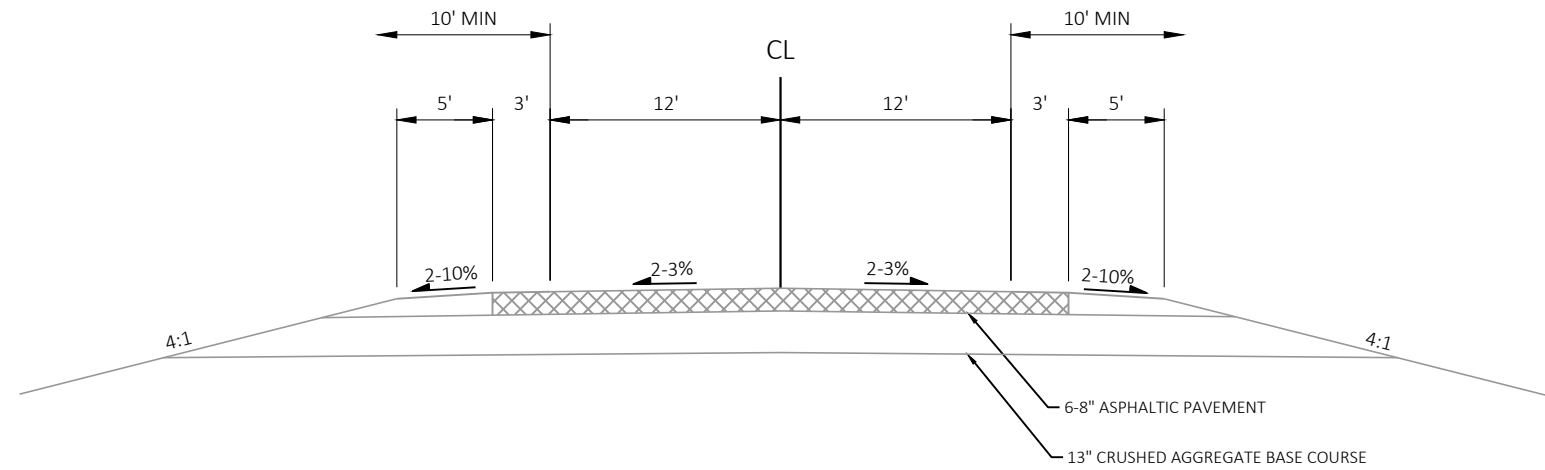
CHARTER COMMUNICATIONS - COMMUNICATION LINE
ADAM OLSON
165 KNIGHTS WAY
FOND DU LAC, WI 54935
PHONE: (920) 349-5055
MOBILE: (920) 263-0065
EMAIL: ADAM.OLSON@CHARTER.COM

CITY OF CHILTON - WATER
JOHN BODINGER
42 SCHOOL STREET
CHILTON, WI 53014
PHONE: (920) 849-9562
EMAIL: CHILTONWW@CHILTONWI.COM

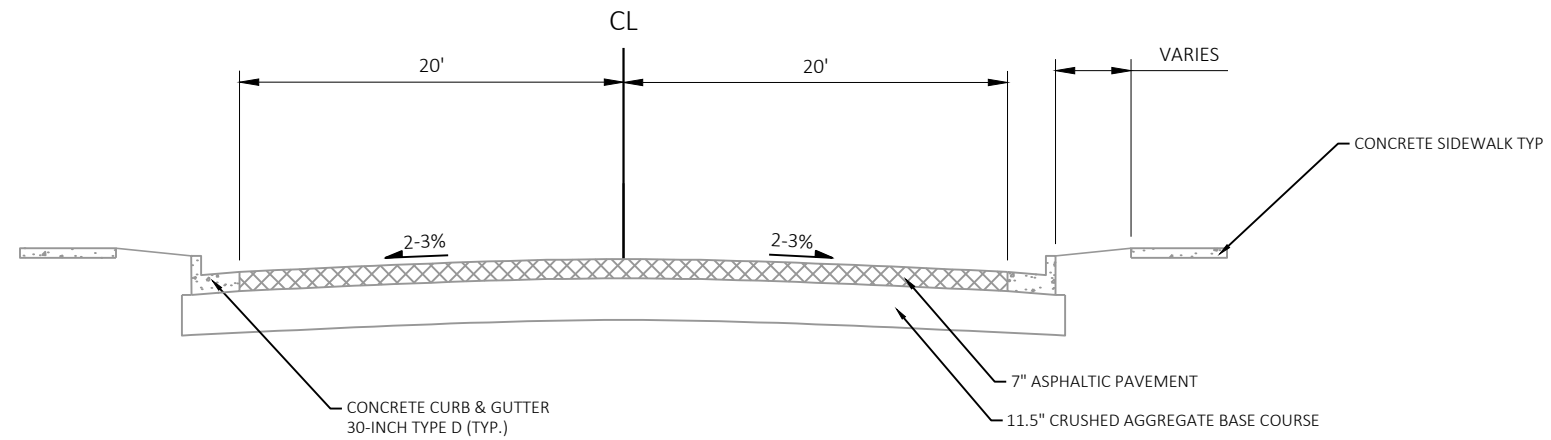
FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE
RUSS RYAN
315 OAK STREET
OAKFIELD, WI 53065
PHONE: (920) 583-3275
EMAIL: RUSSELL.W.RYAN@FTR.COM

WISCONSIN PUBLIC SERVICE CORPORATION - GAS/PETROLEUM
MARTIN SCHAUB
933 S. WILDWOOD AVE
SHEBOYGAN, WI 53081
PHONE: (920) 433-1289
EMAIL: MARTIN.SCHAUB@WISCONSINPUBLICSERVICE.COM

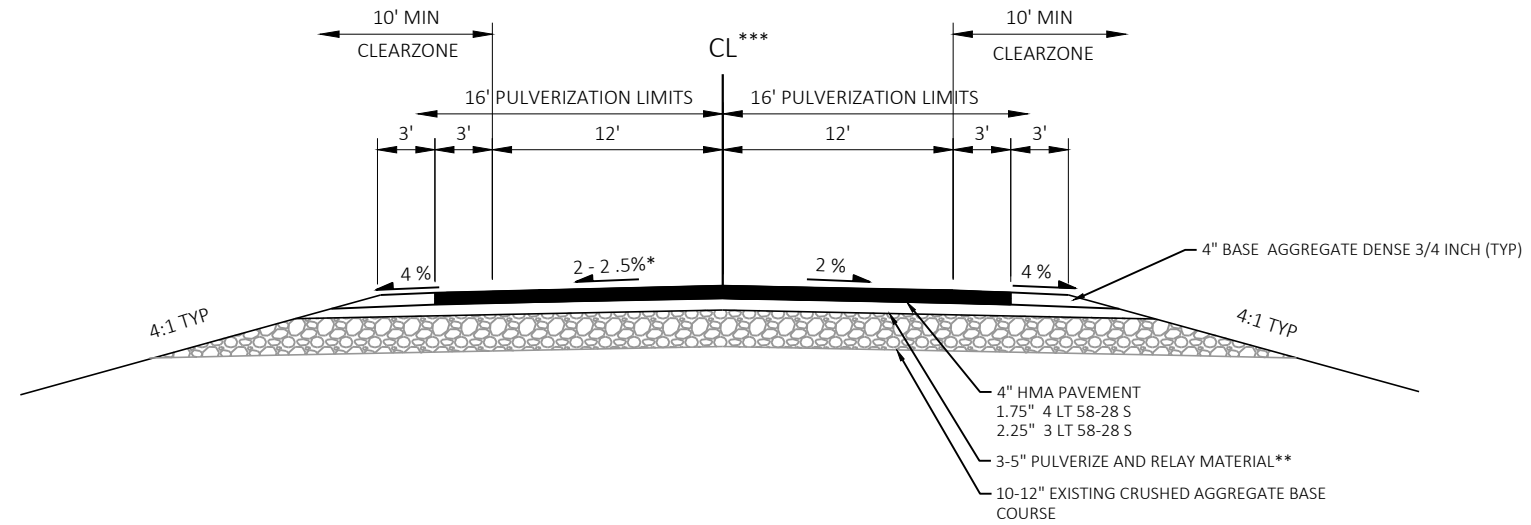
WISCONSIN PUBLIC SERVICE CORPORATION - ELECTRIC
CHARLES WINDUS
933 S. WILDWOOD AVE
SHEBOYGAN, WI 53081
PHONE: (920) 606-1141
EMAIL: CHARLES.WINDUS@WISCONSINPUBLICSERVICE.COM



EXISTING TYPICAL SECTION
STA 1+00 - 109+25



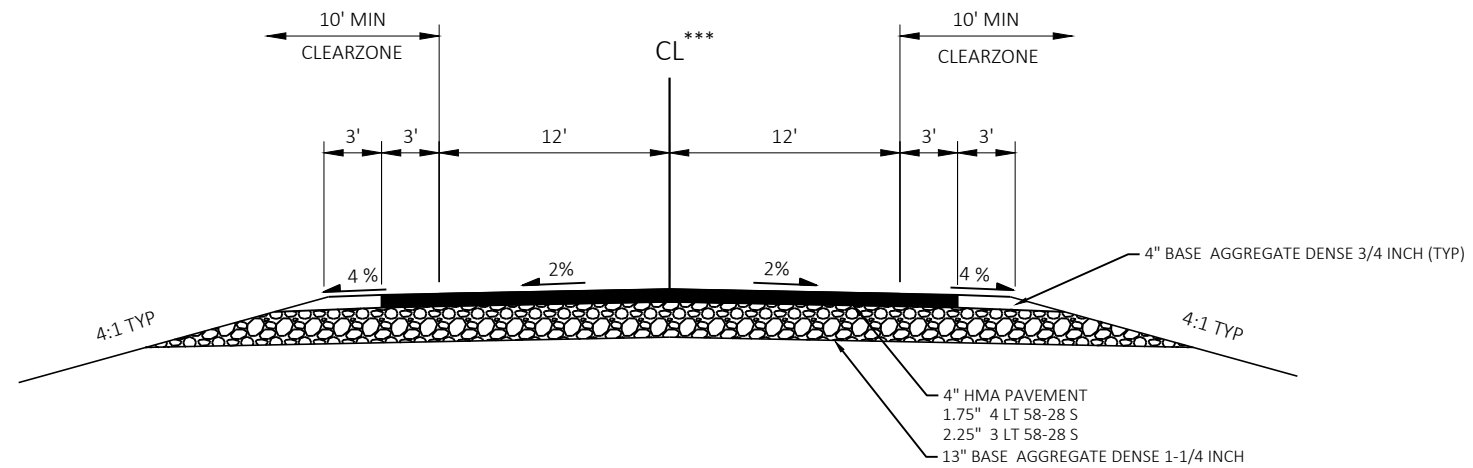
EXISTING TYPICAL SECTION
STA 109+25 - 116+81



FINISHED TYPICAL SECTION

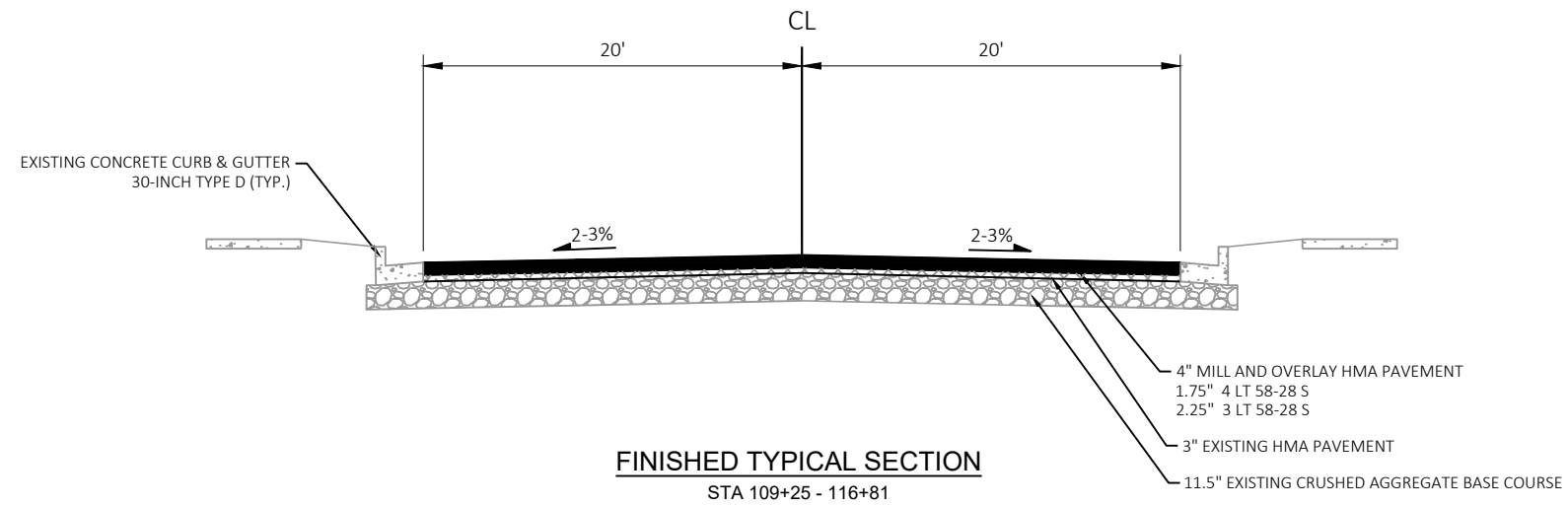
STA 1+00 - 37+00
STA 47+00 - 109+25

- * STA 1+00 TO 21+25.36 LEFT LANE (SOUTHBOUND) CROSS SLOPE = 2.5%
- ** PULVERIZE TO A 9" DEPTH. GRADE AND REMOVE EXCESS PULVERIZED MATERIAL TO THE ELEVATIONS SHOWN ON THE CROSS SECTIONS (REMOVAL OF EXCESS MATERIAL TO BE PAID AS COMMON EXCAVATION)
- *** RURAL CENTERLINE RUMBLE STRIPS IN 55 MPH SEGMENT

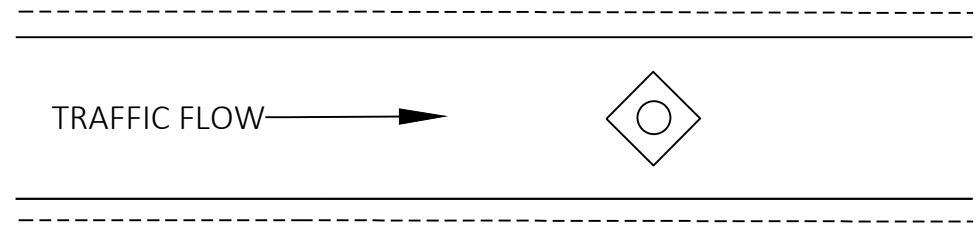
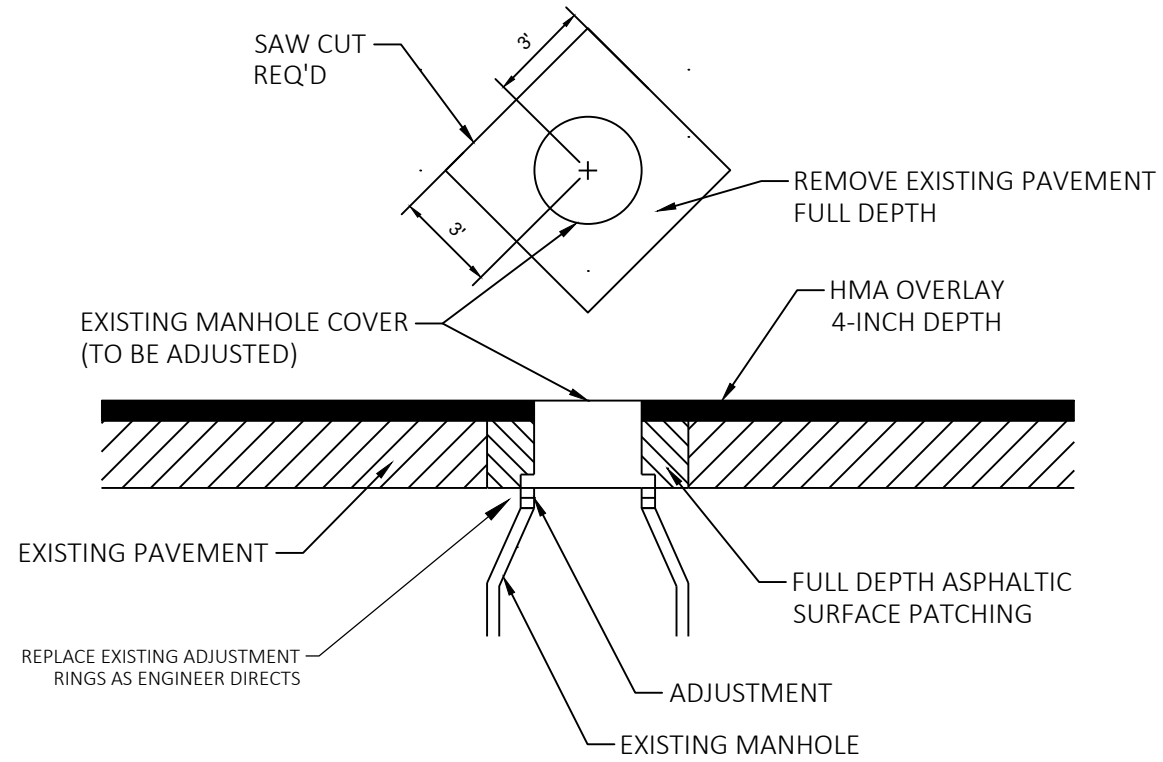


FINISHED TYPICAL SECTION

STA 35+50 - 47+00

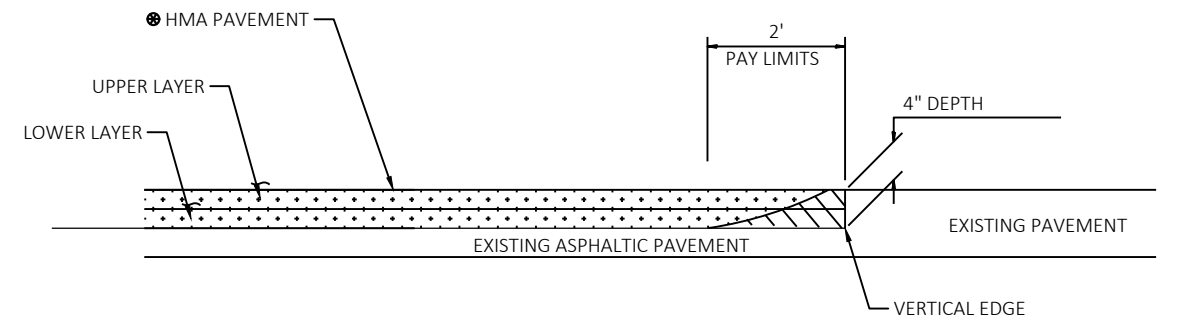


ADJUSTING MANHOLE COVERS



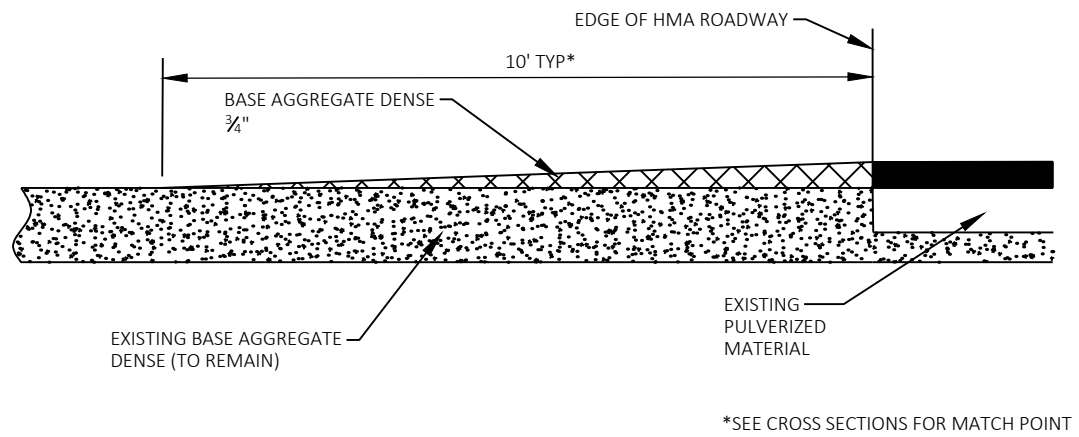
BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENT

STA 1+00
STA 116+81

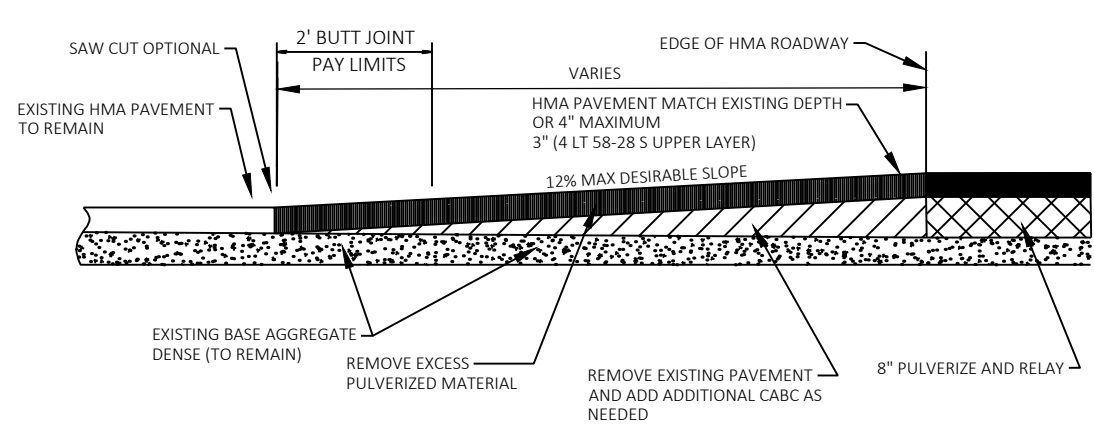


- SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS
- ▨ REMOVING ASPHALTIC SURFACE, MILLING
- ▧ REMOVE ASPHALTIC SURFACE WEDGE AT BUTT JOINT TO CREATE VERTICAL EDGE

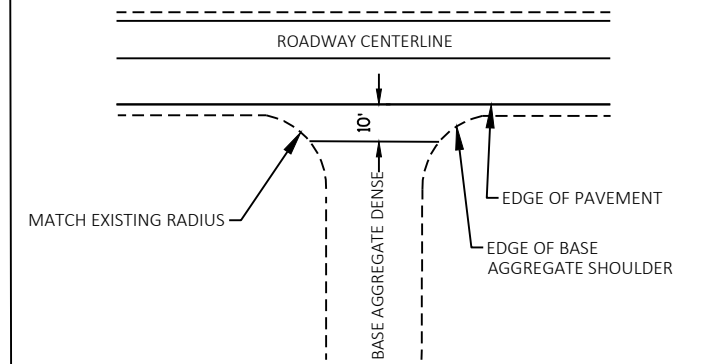
DETAIL FOR BASE AGGREGATE DENSE PRIVATE ENTRANCE



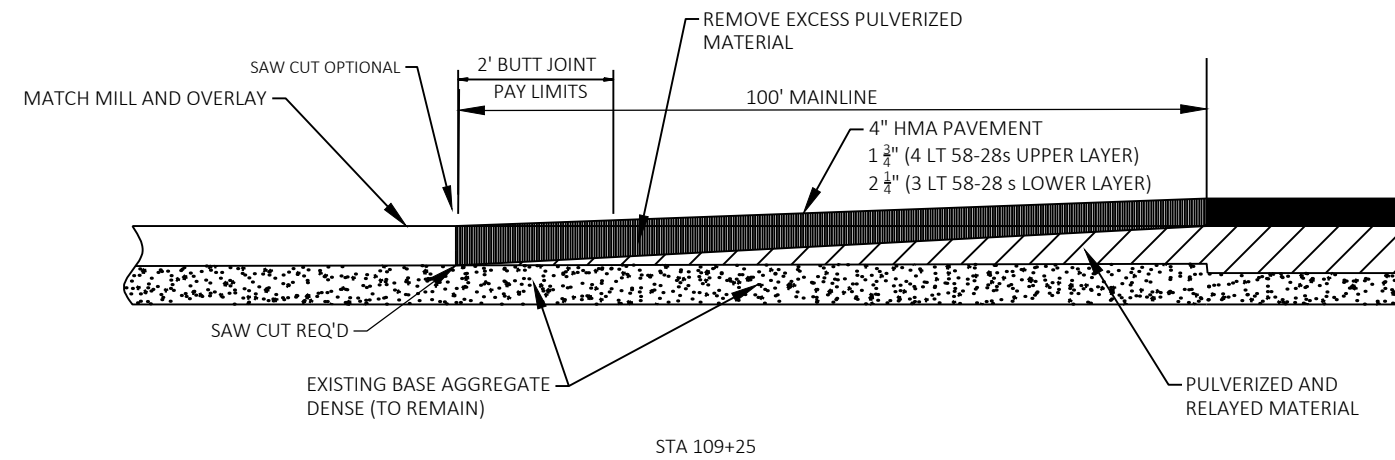
DETAIL FOR HMA PAVEMENT PRIVATE ENTRANCE



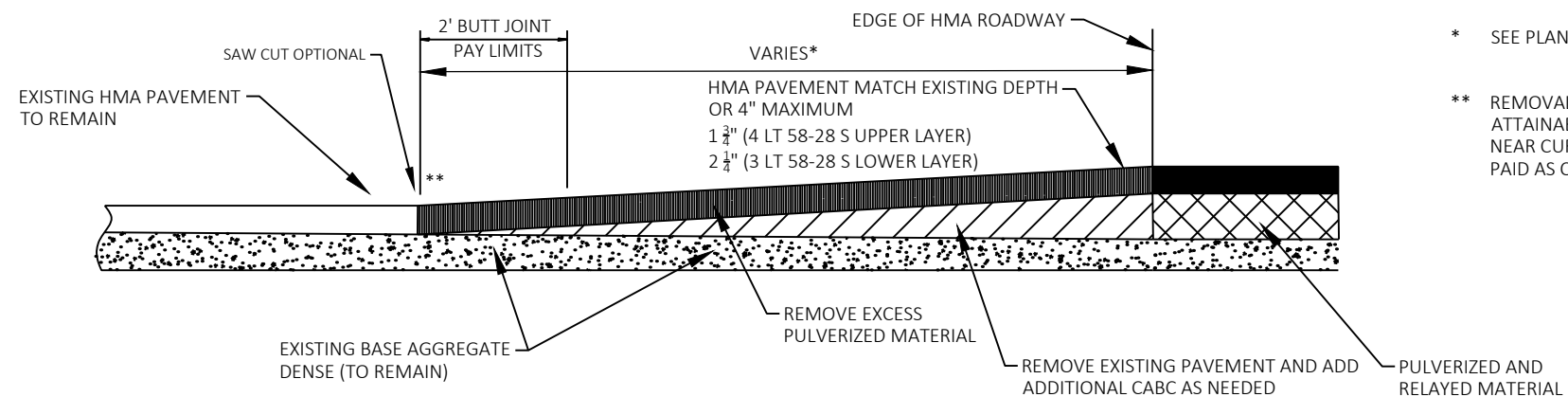
PRIVATE ENTRANCE AND FIELD ENTRANCE BASE AGGREGATE DENSE DETAIL



ROADWAY JOINT TRANSITION



SIDE ROAD HMA PAVEMENT DETAIL

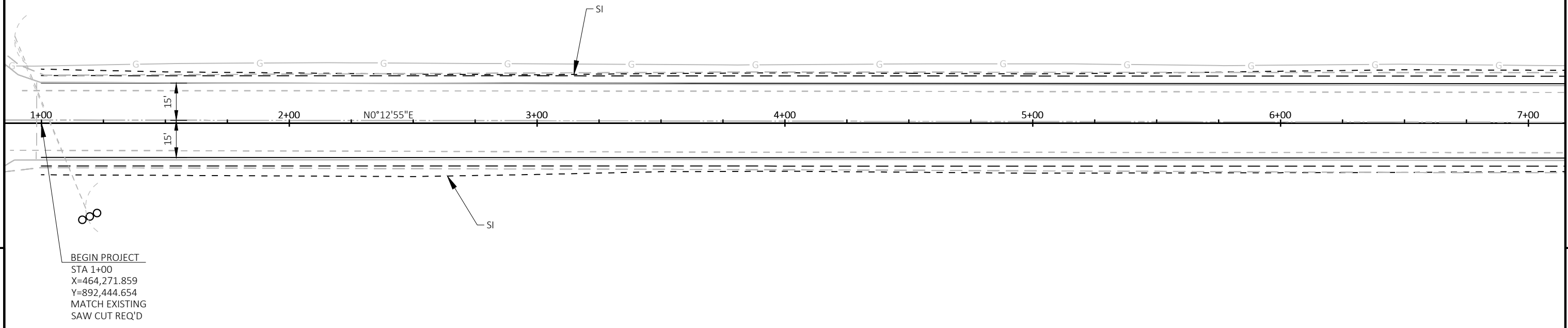


* SEE PLAN AND PROFILE FOR SIDE ROAD LIMITS

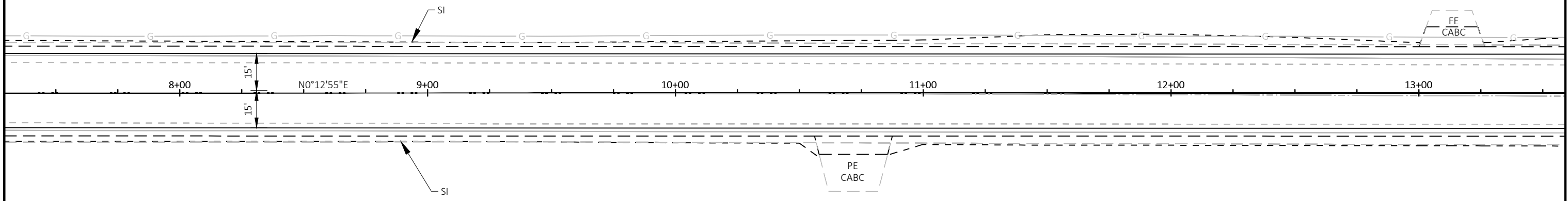
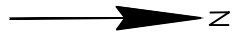
** REMOVAL OF EXISTING PAVEMENT NOT ATTAINABLE WITH THE PULVERIZING OPERATION NEAR CURB AND GUTTER ON M-B LANE WILL BE PAID AS COMMON EXCAVATION

LEGEND

- ##### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- ⊠ INLET PROTECTION TYPE C



BEGIN PROJECT
 STA 1+00
 X=464,271.859
 Y=892,444.654
 MATCH EXISTING
 SAW CUT REQ'D



PROJECT NO: 4489-02-70

HWY: CTH G

COUNTY: CALUMET

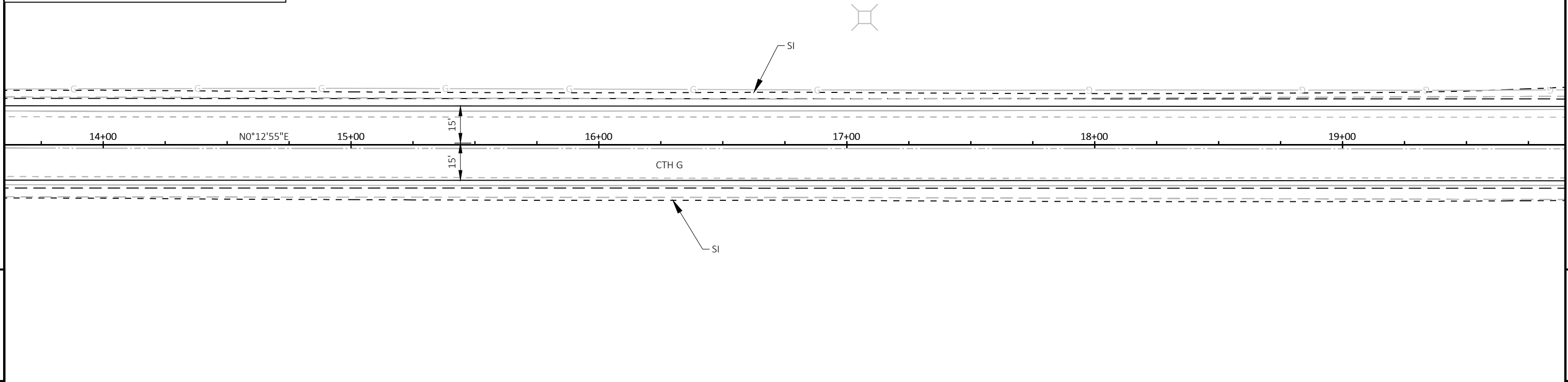
EROSION CONTROL

SHEET

E

LEGEND

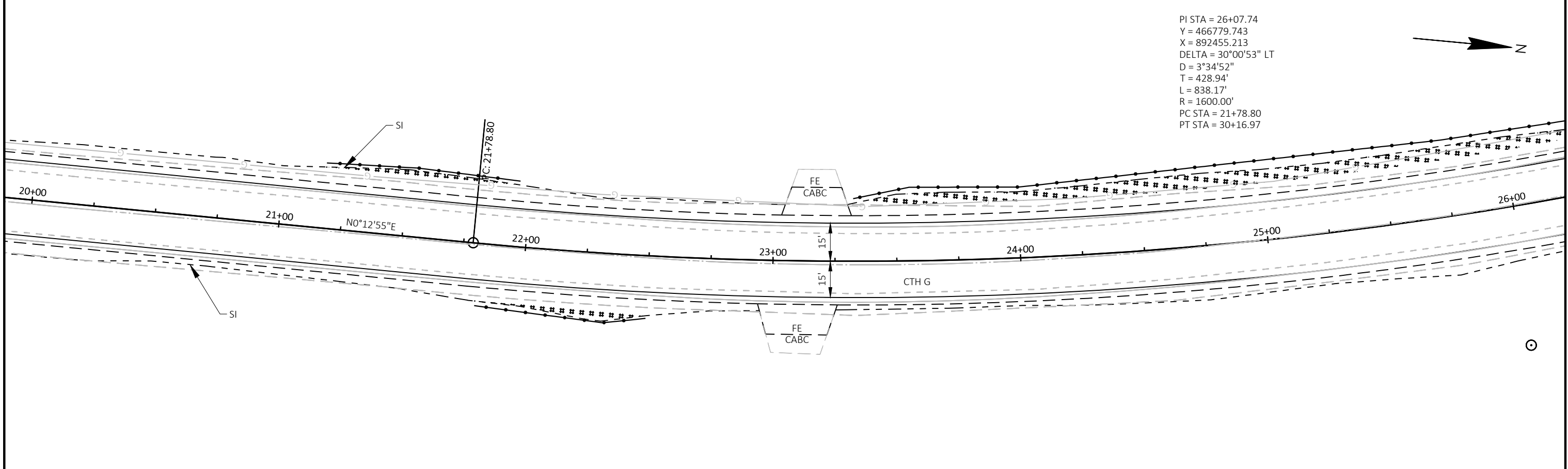
- ##### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- ⊠ INLET PROTECTION TYPE C



2

2

PI STA = 26+07.74
 Y = 466779.743
 X = 892455.213
 DELTA = 30°00'53" LT
 D = 3°34'52"
 T = 428.94'
 L = 838.17'
 R = 1600.00'
 PC STA = 21+78.80
 PT STA = 30+16.97



PROJECT NO: 4489-02-70

HWY: CTH G

COUNTY: CALUMET

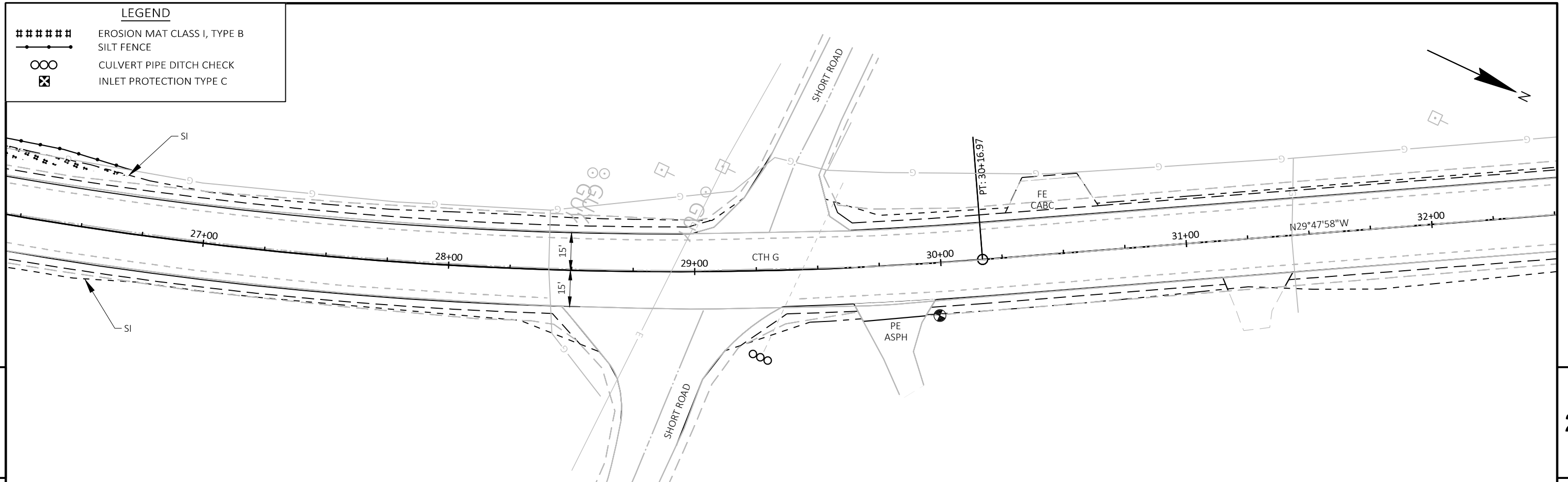
EROSION CONTROL

SHEET

E

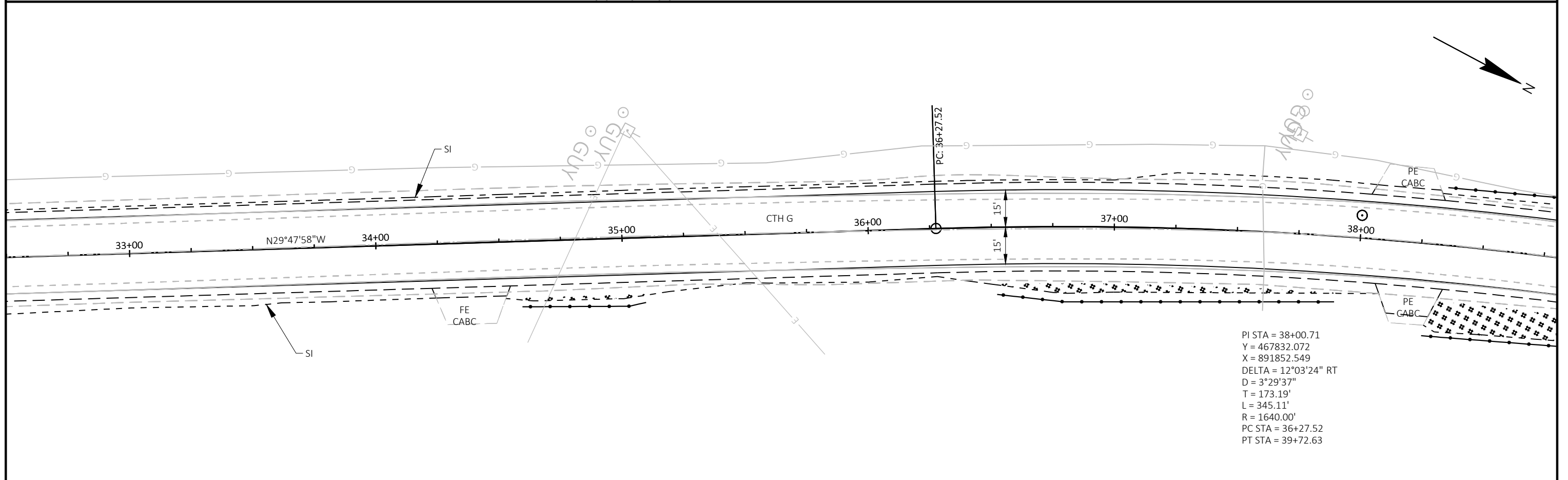
LEGEND

- ##### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- ⊠ INLET PROTECTION TYPE C



2

2



PROJECT NO: 4489-02-70

HWY: CTH G

COUNTY: CALUMET

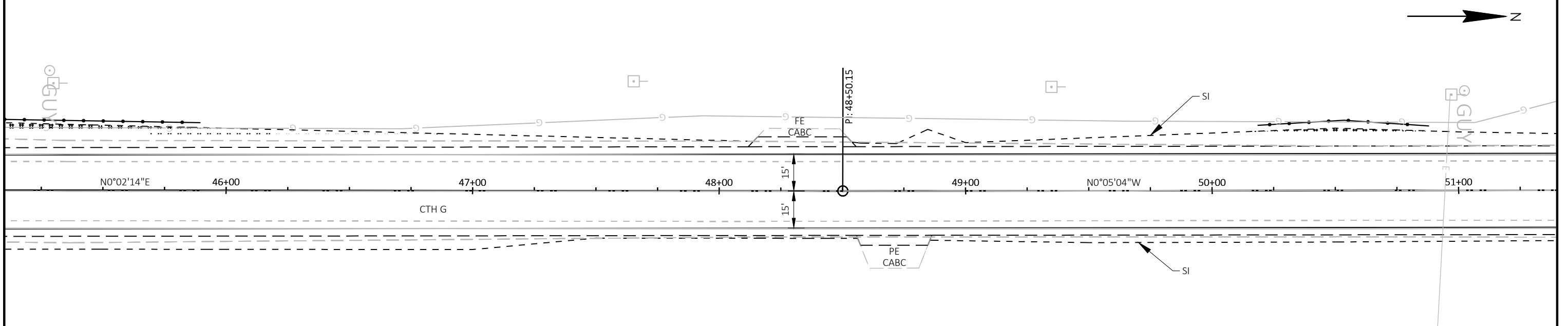
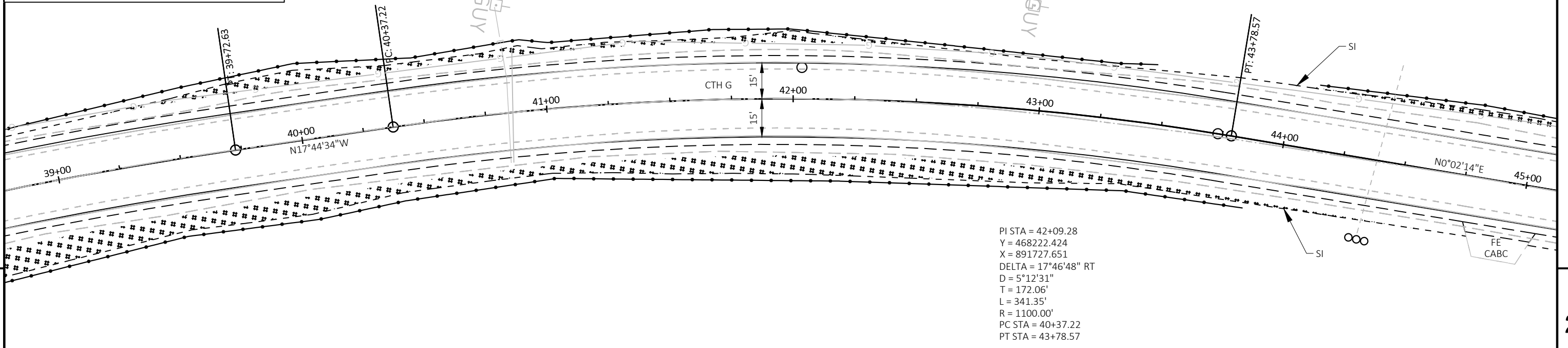
EROSION CONTROL

SHEET

E

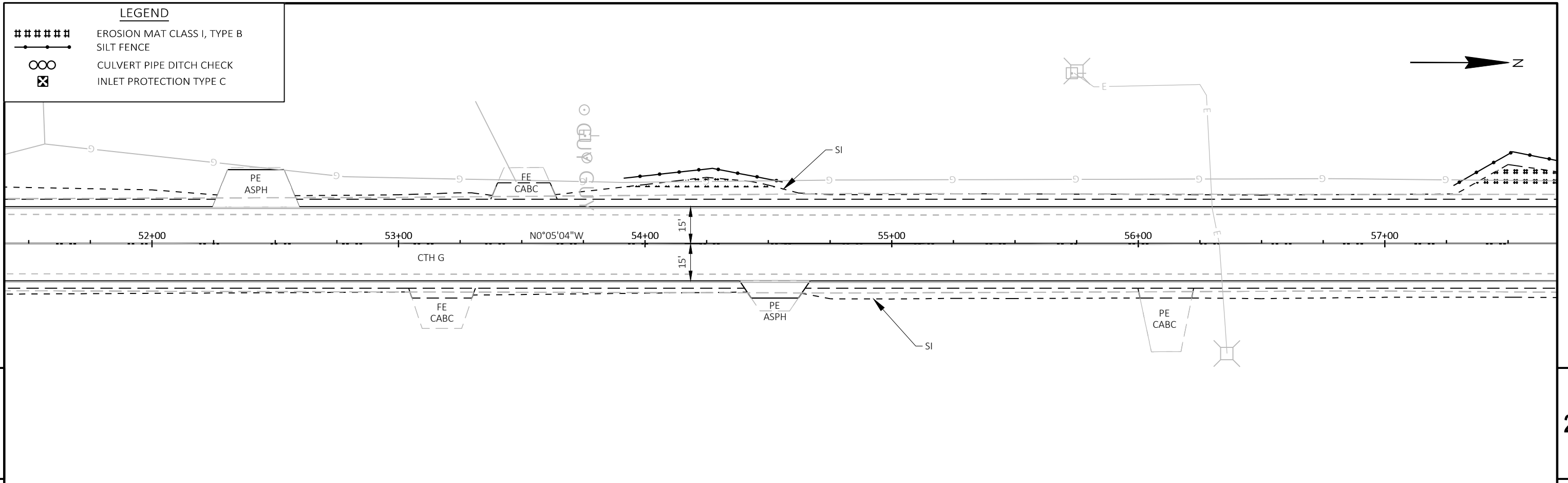
LEGEND

- ##### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- ⊠ INLET PROTECTION TYPE C



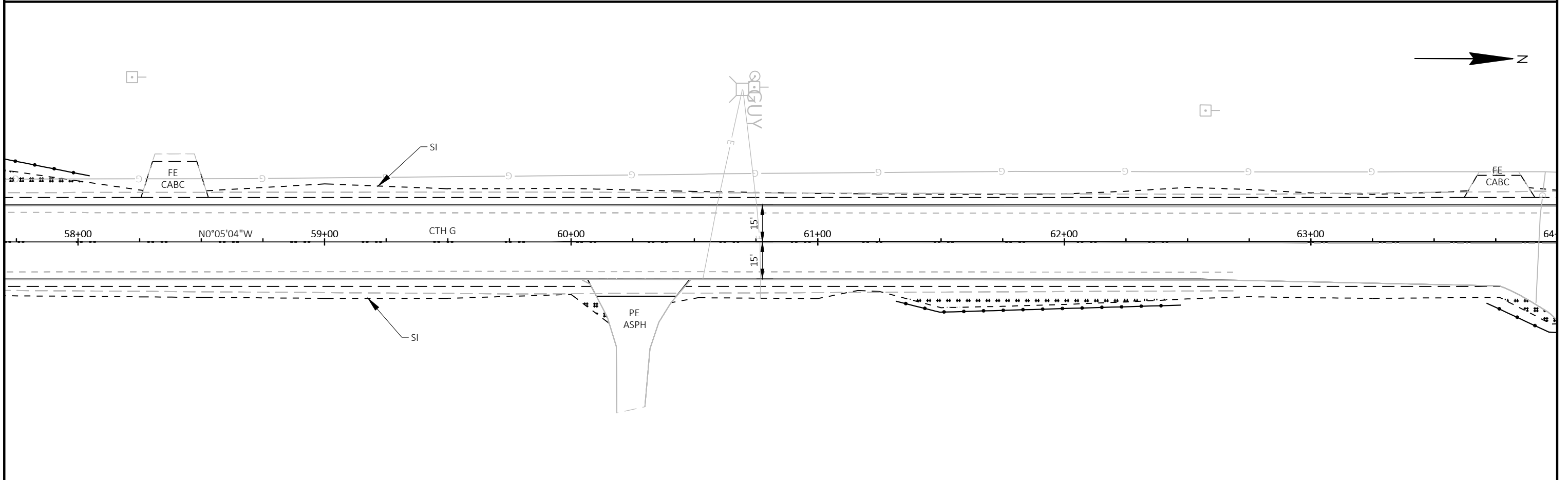
LEGEND

- ##### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- ⊠ INLET PROTECTION TYPE C



2

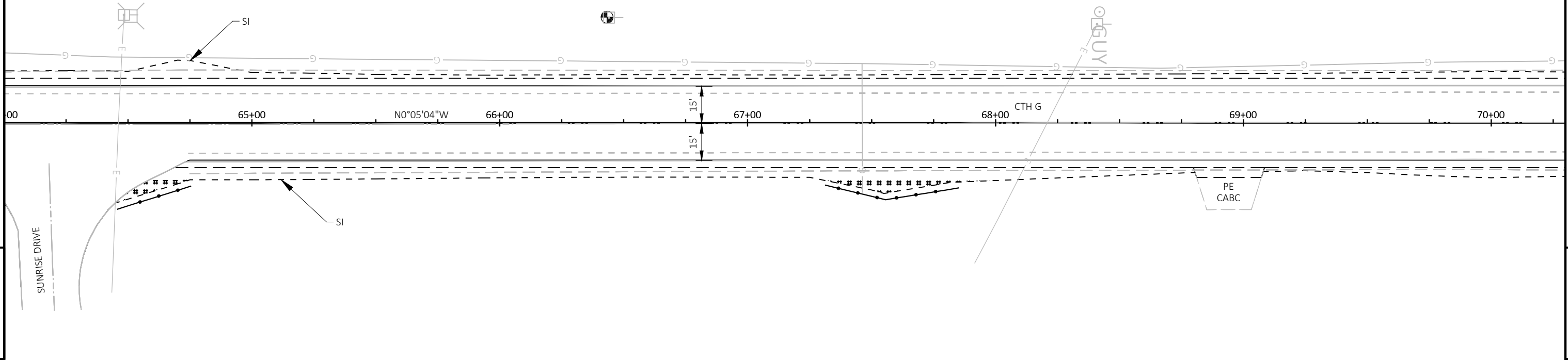
2



PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	EROSION CONTROL	SHEET	E
------------------------	------------	-----------------	-----------------	-------	----------

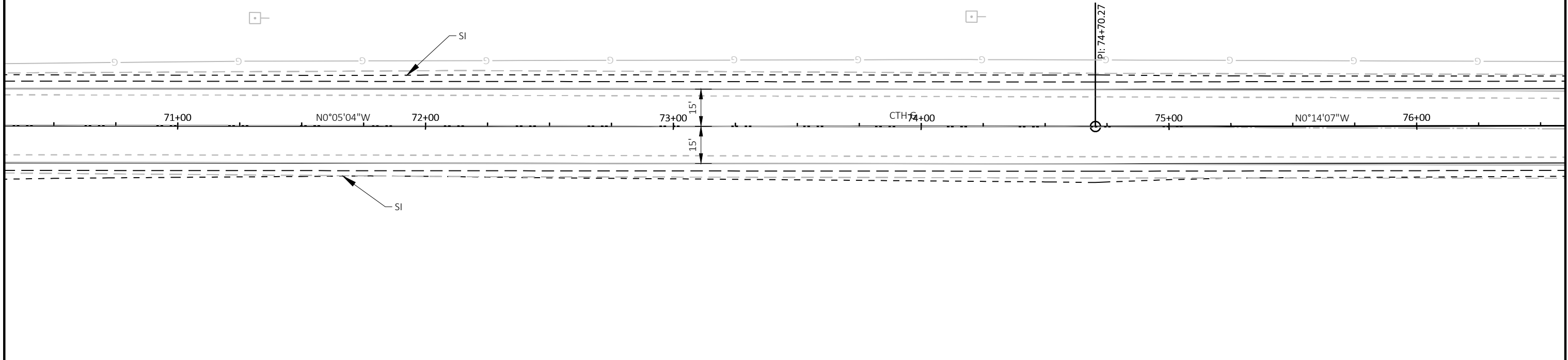
LEGEND

- ##### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- ⊠ INLET PROTECTION TYPE C



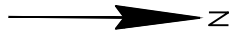
2

2



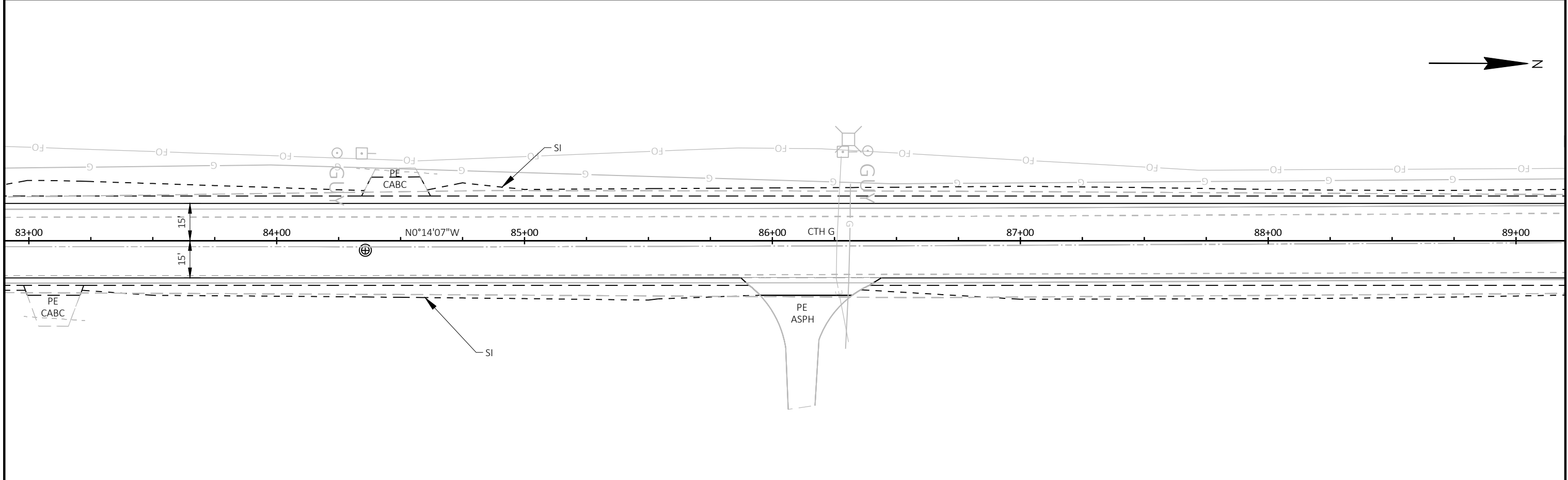
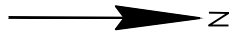
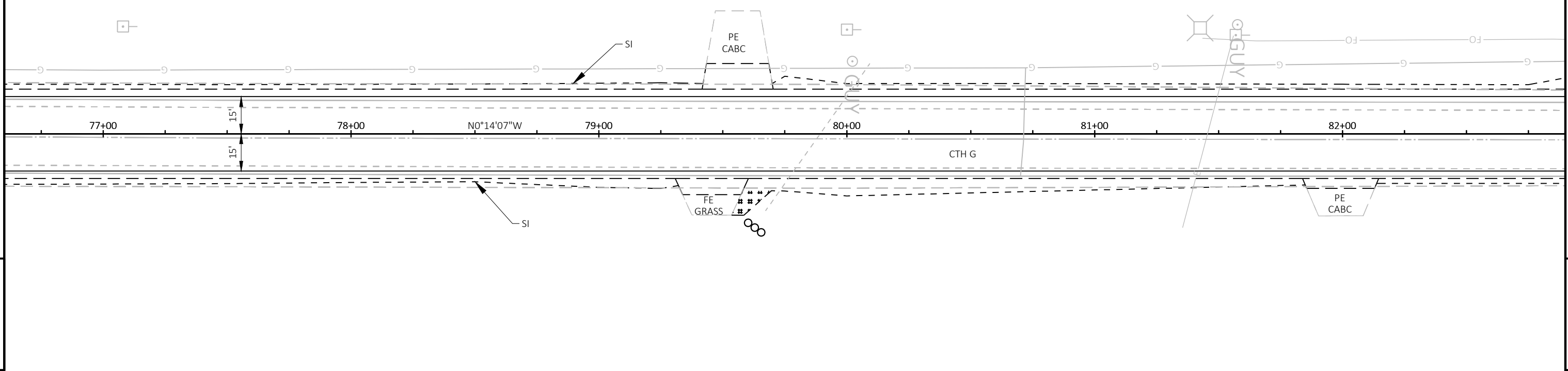
PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	EROSION CONTROL	SHEET	E
------------------------	------------	-----------------	-----------------	-------	----------

LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—●—●—●—●—	SILT FENCE
○○	CULVERT PIPE DITCH CHECK
⊠	INLET PROTECTION TYPE C



2

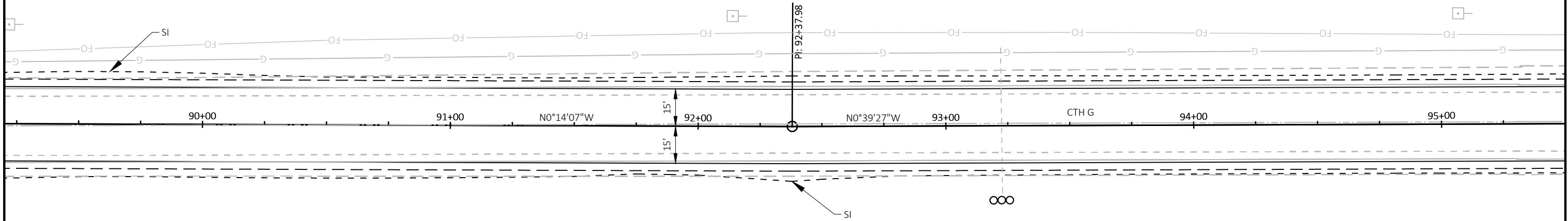
2



PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	EROSION CONTROL	SHEET	E
------------------------	------------	-----------------	-----------------	-------	----------

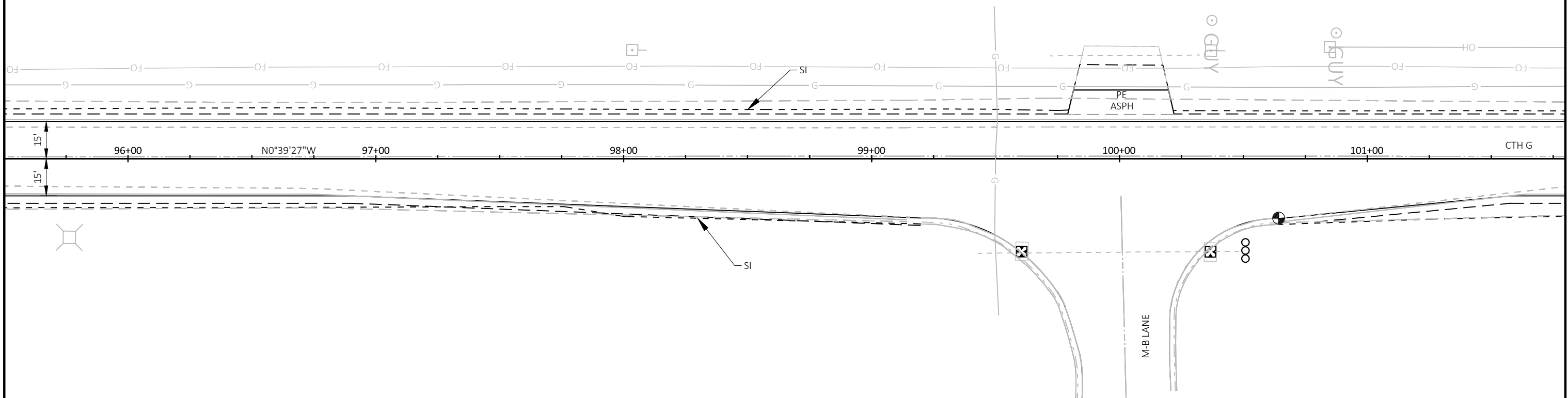
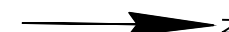
LEGEND

- ##### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- ⊠ INLET PROTECTION TYPE C

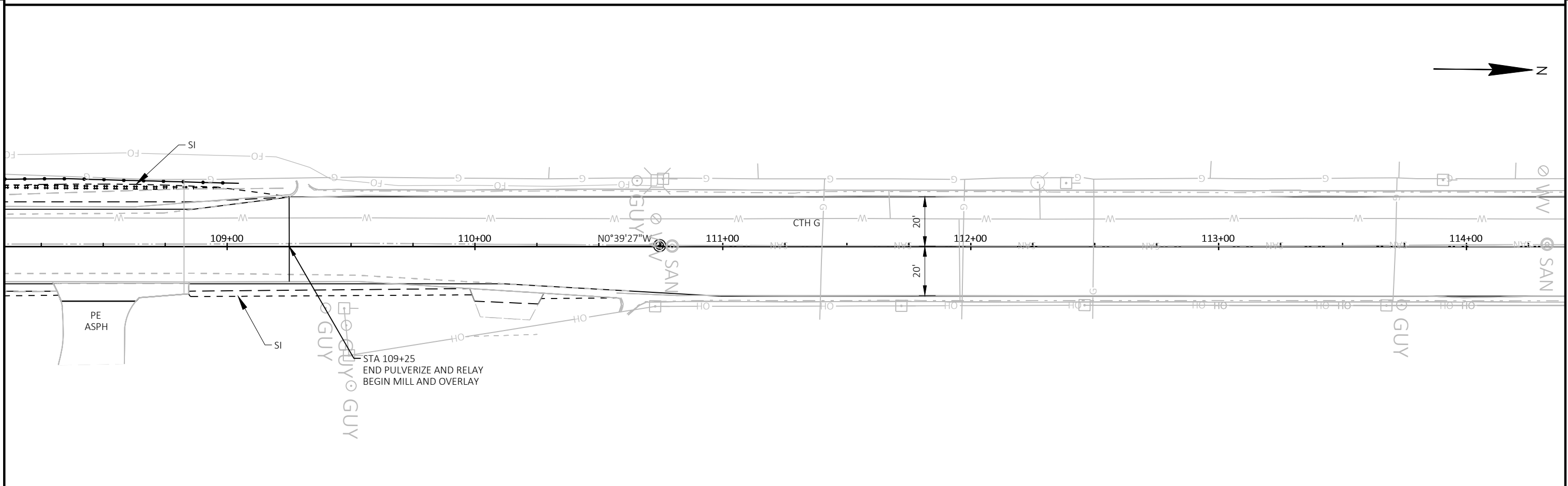
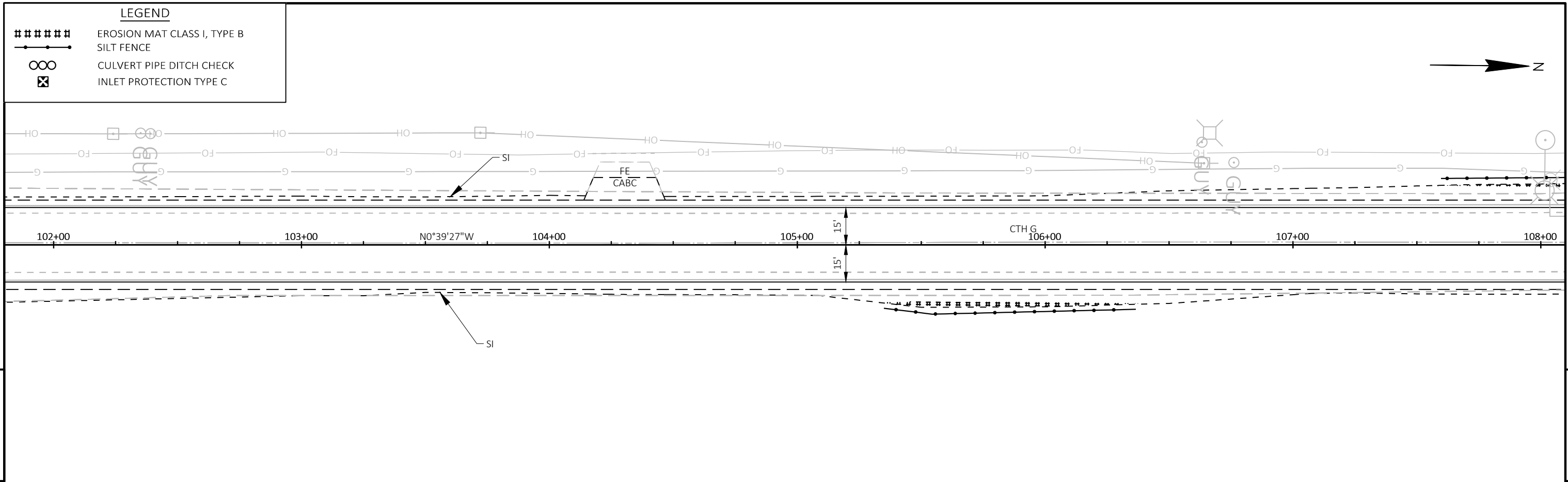


2

2



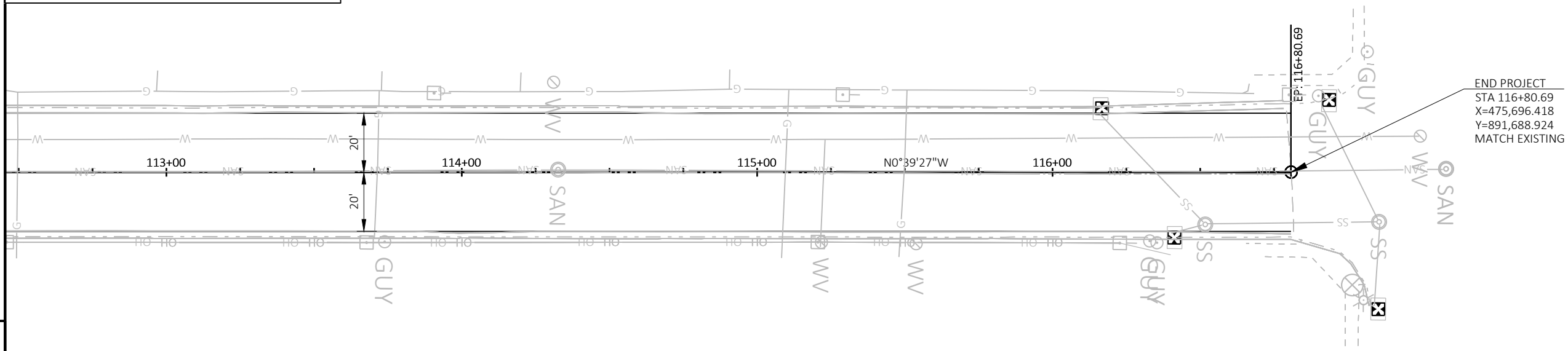
PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	EROSION CONTROL	SHEET	E
------------------------	------------	-----------------	-----------------	-------	----------



PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	EROSION CONTROL	SHEET	E
------------------------	------------	-----------------	-----------------	-------	---

LEGEND

- ##### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- ⊠ INLET PROTECTION TYPE C



END PROJECT
 STA 116+80.69
 X=475,696.418
 Y=891,688.924
 MATCH EXISTING

2

2

Estimate Of Quantities

4489-02-70

Line	Item	Item Description	Unit	Total	Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	120.000	120.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	3,400.000	3,400.000
0006	205.0100	Excavation Common	CY	8,169.000	8,169.000
0008	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 4489-02-70	EACH	1.000	1.000
0010	213.0100	Finishing Roadway (project) 01. 4489-02-70	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,500.000	2,500.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	6,600.000	6,600.000
0016	325.0100	Pulverize and Relay	SY	35,300.000	35,300.000
0018	455.0605	Tack Coat	GAL	5,750.000	5,750.000
0020	460.2000	Incentive Density HMA Pavement	DOL	5,984.000	5,984.000
0022	460.5223	HMA Pavement 3 LT 58-28 S	TON	5,250.000	5,250.000
0024	460.5224	HMA Pavement 4 LT 58-28 S	TON	4,100.000	4,100.000
0026	465.0110	Asphaltic Surface Patching	TON	25.000	25.000
0028	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	50.000	50.000
0030	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	9,400.000	9,400.000
0032	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000
0034	619.1000	Mobilization	EACH	1.000	1.000
0036	624.0100	Water	MGAL	339.000	339.000
0038	625.0100	Topsoil	SY	1,325.000	1,325.000
0040	628.1504	Silt Fence	LF	3,263.000	3,263.000
0042	628.1520	Silt Fence Maintenance	LF	3,263.000	3,263.000
0044	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0046	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0048	628.2004	Erosion Mat Class I Type B	SY	1,325.000	1,325.000
0050	628.7015	Inlet Protection Type C	EACH	6.000	6.000
0052	628.7555	Culvert Pipe Checks	EACH	12.000	12.000
0054	629.0210	Fertilizer Type B	CWT	1.000	1.000
0056	630.0120	Seeding Mixture No. 20	LB	36.000	36.000
0058	630.0200	Seeding Temporary	LB	36.000	36.000
0060	630.0500	Seed Water	MGAL	30.000	30.000
0062	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	20.000	20.000
0064	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	12.000	12.000
0066	637.2110	Signs Type II Non Reflective	SF	138.450	138.450
0068	637.2230	Signs Type II Reflective F	SF	51.250	51.250
0070	638.2602	Removing Signs Type II	EACH	32.000	32.000
0072	638.3000	Removing Small Sign Supports	EACH	32.000	32.000
0074	642.5001	Field Office Type B	EACH	1.000	1.000
0076	643.0420	Traffic Control Barricades Type III	DAY	1,525.000	1,525.000
0078	643.0705	Traffic Control Warning Lights Type A	DAY	3,050.000	3,050.000
0080	643.0900	Traffic Control Signs	DAY	1,830.000	1,830.000
0082	643.5000	Traffic Control	EACH	1.000	1.000
0084	646.1020	Marking Line Epoxy 4-Inch	LF	33,000.000	33,000.000
0086	646.6120	Marking Stop Line Epoxy 18-Inch	LF	20.000	20.000
0088	648.0100	Locating No-Passing Zones	MI	2.205	2.205
0090	650.4500	Construction Staking Subgrade	LF	1,150.000	1,150.000
0092	650.5000	Construction Staking Base	LF	10,825.000	10,825.000
0094	650.8000	Construction Staking Resurfacing Reference	LF	756.000	756.000
0096	650.9911	Construction Staking Supplemental Control (project) 01. 4489-02-70	EACH	1.000	1.000
0098	650.9920	Construction Staking Slope Stakes	LF	10,825.000	10,825.000

Estimate Of Quantities

4489-02-70

Line	Item	Item Description	Unit	Total	Qty
0100	690.0150	Sawing Asphalt	LF	388.000	388.000
0102	740.0440	Incentive IRI Ride	DOL	8,840.000	8,840.000
0104	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0106	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0108	SPV.0060	Special 01. Adjusting Water Valves	EACH	1.000	1.000

DIVISION	FROM/TO STATION	205.0100 COMMON EXCAVATION (1)		SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)	COMMENT
		CUT (2)	EBS EXCAVATION (3)				FACTOR 1.25		
CTH G	1+00 TO 35+50	1,530	0	0	1,530	124	155	1,375	PULV/RELAY AND REMOVAL OF EXCESS PULV MATERIAL
CTH G	35+50 TO 47+00	3,201	0	736	2,465	10	13	3,828	RECONSTRUCT
CTH G	47+00 TO 109+00	2,038	0	0	2,038	140	175	5,691	PULV/RELAY AND REMOVAL OF EXCESS PULV MATERIAL
CTH G	1+00 to 109+00	900	0	0	900	0	0	6,591	PULV EXPANSION (ESTIMATED 15% VOLUME OF THE EXISTING PAVEMENT)
CTH G	UNDIST		500	0	500	0	0	7,091	
TOTAL COMMON EXC		8,169							

NOTES:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) EBS EXCAVATION TO BE BACKFILLED WITH EXCESS PULVERIZED MATERIAL.
- (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (6) EXPANDED FILL FACTOR = 1.25
 DEPENDING ON SELECTION **EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR**
 EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR
 EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR
 EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * FILL FACTOR
- (7) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

REMOVING ASPHALTIC SURFACE MILLING

STATION TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	325.0100 PULVERIZE AND RELAY SY	624.0100 WATER MGAL	REMARKS
1+00 -	35+50	CTH G	26	--	12,300	74	SOUTH RURAL SEGMENT
35+50 -	47+00	CTH G	--	--	--	--	PAVEMENT REPLACEMENT SEGMENT
47+00 -	109+25	CTH G	35	--	22,200	133	SOUTH RURAL SEGMENT
109+25 -	116+81	CTH G	9	3,400	--	--	NORTH URBAN SEGMENT
UNDISTRIBUTED		CTH G	50	--	800	--	DRIVEWAYS
TOTAL			120	3,400	35,300	207*	

BASE AGGREGATE ITEMS

STA	TO	STA	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER* MGAL
1+00	-	35+50	CTH G	600	400	8
35+50	-	47+00	CTH G	200	5000	100
47+00	-	109+25	CTH G	1,100	600	12
	-		UNDIST	600	600	12
TOTAL				2,500	6,600	132*

*ADDITIONAL QUANTITY LISTED IN PLANS

ALL ITEMS 0010 CATEGORY UNLESS OTHERWISE LISTED

3

3

HMA PAVEMENT

STATION TO	STATION	LOCATION	EACH	GAL	TON	TON	TON	TON	LF
1+00	- 110+00	CTH G	-	5,100	4,600	3,600	25	50	9,400
110+00	- 116+81	CTH G	1	500	450	350		--	--
		SIDERoadS	-	150	200	150	0	--	--
TOTAL			1	5,750	5,250	4,100	25	50	9,400

ADJUSTING MANHOLE COVERS

CATEGORY	LOCATION	EACH	NOTES
0010	116+50	1.0	
TOTAL		1.0	

ADJUSTING WATER VALVES

CATEGORY	LOCATION	EACH
0020	110+70	1.0
TOTAL		1.0

RESTORATION

STA	TO	STA	LOCATION	OFFSET	SY	CWT	LB	LB	MGAL
1+00	-	31+00	CTH G	RT	220	0.14	6	6	30
31+00	-	48+00	CTH G	LT/RT	640	0.40	18	18	
48+00	-	90+00	CTH G	LT/RT	150	0.09	4	4	
90+00	-	116+81	CTH G	LT/RT	50	0.03	1	1	
UNDISTRIBUTED			CTH G	-	265	0.17	7	7	
TOTAL					1,325	1	36	36	30

EROSION CONTROL

STA	TO	STA	LOCATION	OFFSET	LF	LF	EACH	EACH	SY	EACH	EACH
1+00	-	31+00	CTH G	RT	478	478	--	--	220	--	2
31+00	-	48+00	CTH G	LT/RT	1,436	1,436	--	--	640	--	2
48+00	-	90+00	CTH G	LT/RT	449	449	--	--	150	--	2
90+00	-	116+81	CTH G	LT/RT	247	247	--	--	50	6	6
UNDISTRIBUTED			CTH G	-	653	653	5	3	265	--	--
TOTAL					3,263	3,263	5	3	1,325	6	12

ALL ITEMS 0010 CATEGORY UNLESS OTHERWISE LISTED

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES	SHEET	E
------------------------	------------	-----------------	--------------------------	-------	----------

ERECTION OF TYPE II SIGNS AND SUPPORTS

637.2210 637.2230
 SIGNS TYPE SIGNS TYPE
 II II 634.0614 634.0616
 REFLECTIVE H REFLECTIVE F POSTS WOOD POSTS WOOD

SIGN NO.	LOCATION	STA	OFFSET	SIGN CODE	W X H	S.F.	S.F.	4x6x14 EACH	4x6x16 EACH	REMARKS
1	CTH G	2+00	RT	I55-56	30" x 18"	3.75	---	1	---	
2	CTH G	14+75	LT	W14-3	48" x 36"	---	12.00	---	1	
3	CTH G	17+25	RT	W1-4	24" x 24"	---	4.00	1	---	
4	CTH G	21+50	RT	M1-86	18" x 36"	4.50	---	---	1	
				M1-88A	12" x 12"	1.00	---	---	---	
5	SHORT ROAD WEST			R1-1	30" x 30"	6.25	---	1	---	
				M1-94	24" x 15"	2.50	---	---	---	
6	SHORT ROAD WEST			W14-1	24" x 24"	---	4.00	1	---	
7	SHORT ROAD EAST			R1-1	30" x 30"	6.25	---	1	---	
				M1-94	24" x 15"	2.50	---	---	---	
8	SHORT ROAD EAST			R2-1	18" x 24"	3.00	---	1	---	
9	CTH G	36+00	LT	M1-86	18" x 36"	4.50	---	---	1	
				M1-88A	12" x 12"	1.00	---	---	---	
10	CTH G	52+00	LT	W1-4	24" x 24"	---	4.00	1	---	
11	CTH G	61+50	RT	W14-3	48" x 36"	---	12.00	1	---	
12	SUNRISE DRIVE			R1-1	30" x 30"	6.25	---	1	---	
				M1-94	24" x 15"	2.50	---	---	---	
13	CTH G	78+00	RT	W3-5	36" x 36"	---	9.00	1	---	
14	CTH G	84+00	LT	R2-1	18" x 24"	3.00	---	1	---	
15	CTH G	84+50	RT	R2-1	18" x 24"	3.00	---	1	---	
16	CTH G	84+50	RT	I2-3A	36" x 30"	7.50	---	1	---	
				R7-2	18" x 24"	3.00	---	---	---	
17	CTH G	88+50	RT		18" x 24"	3.00	---	1	---	NO ENGINE BRAKE
18	CTH G	93+50	LT	R2-1	18" x 24"	3.00	---	1	---	
19	MB LINE EAST			R2-1	18" x 24"	3.00	---	---	1	
20	MB LINE EAST			R1-1	30" x 30"	6.25	---	---	1	
				M1-94	24" x 15"	2.50	---	---	---	
21	MB LINE WEST			R1-1	30" x 30"	6.25	---	1	---	
22	CTH G	102+50	RT	R2-1	18" x 24"	3.00	---	1	---	
23	CTH G	105+50	LT	R2-1	18" x 24"	3.00	---	1	---	
24	CTH G	107+50	LT	I55-56	30" x 18"	3.75	---	---	1	
25	CTH G	107+50	LT	M1-5A	24" x 24"	4.00	---	---	1	
				M1-4	24" x 24"	4.00	---	---	---	
26	CTH G	109+50	RT	W3-1	30" x 30"	---	6.25	---	1	
27	CTH G	111+00	RT	M1-4	24" x 24"	4.00	---	---	1	
28	CTH G	111+50	RT	M1-6	24" x 24"	4.00	---	---	1	
				M1-4	24" x 24"	4.00	---	---	---	
				M2-1	21" x 15"	2.20	---	---	---	
29	CTH G	114+50	LT	R2-1	18" x 24"	3.00	---	---	1	
30	CTH G	115+00	RT	M1-5A	24" x 24"	4.00	---	1	---	
31	CTH G	115+50	RT	M1-6	24" x 24"	4.00	---	---	1	
				M1-4	24" x 24"	4.00	---	---	---	
				M7-1	12" x 9"	0.75	---	---	---	
32	CTH G	116+50	RT	R1-1	30" x 30"	6.25	---	1	---	
TOTAL						138.45	51.25	20.00	12.00	

ALL ITEMS 0010 CATEGORY UNLESS OTHERWISE LISTED

REMOVAL OF TYPE II SIGNS AND SUPPORTS

638.2602 MOUNTED WITH SIGN
 638.3000 REMOVING SMALL SIGN SUPPORTS

SIGN NO.	LOCATION	STA	OFFSET	SIGN CODE	NO.	II EACH	EACH	REMARKS
1	CTH G	2+00	RT	I55-56		1	1	
2	CTH G	14+75	LT	W14-3		1	1	
3	CTH G	17+25	RT	W1-4		1	1	
4	CTH G	21+50	RT	M1-86		1	1	
				M1-88A	4	---	---	
5	SHORT ROAD WEST			R1-1		1	1	
				M1-94	5	---	---	
6	SHORT ROAD WEST			W14-1		1	1	
7	SHORT ROAD EAST			R1-1		1	1	
				M1-94	7	---	---	
8	SHORT ROAD EAST			R2-1		1	1	35 MPH
	CTH G	36+00	LT	M1-86	8	---	---	
9				M1-88A		1	1	
10	CTH G	52+00	LT	W1-4		1	1	
11	CTH G	61+50	RT	W14-3		1	1	
12	SUNRISE DRIVE			R1-1		1	1	
				M1-94	12	---	---	
13	CTH G	78+00	RT	W3-5		1	1	35 MPH
14	CTH G	84+00	LT	R2-1		1	1	55 MPH
15	CTH G	84+50	RT	R2-1		1	1	35 MPH
16	CTH G	84+50	RT	I2-3A		1	1	
				R7-2	16	---	---	
17	CTH G	88+50	RT			1	1	
18	CTH G	93+50	LT	R2-1		2	2	35 MPH
19	MB LINE EAST			R2-1		1	1	35 MPH
20	MB LINE EAST			R1-1		1	1	
				M1-94	20	---	---	
21	MB LINE WEST			R1-1		1	1	
22	CTH G	102+50	RT	R2-1		1	1	25 MPH
23	CTH G	105+50	LT	R2-1		1	1	35 MPH
24	CTH G	107+50	LT	I55-56		1	1	
25	CTH G	107+50	LT	M1-5A		1	1	
				M1-4	25	---	---	
26	CTH G	109+50	RT	W3-1		1	1	
27	CTH G	111+00	RT	M1-4		1	1	
28	CTH G	111+50	RT	M1-6		---	---	
				M1-4	28	---	---	
				M2-1	28	---	---	
29	CTH G	114+50	LT	R2-1		1	1	25 MPH
30	CTH G	115+00	RT	M1-5A		1	1	
31	CTH G	115+50	RT	M1-6		1	1	
				M1-4	31	---	---	
				M7-1	31	---	---	
32	CTH G	116+50	RT	R1-1		1	1	
TOTAL						32	32	

ALL ITEMS 0010 CATEGORY UNLESS OTHERWISE LISTED

3

TRAFFIC CONTROL

STATION TO	STATION	LOCATION	643.5000 TRAFFIC CONTROL		643.0420 BARRICADES		643.0705 WARNING LIGHTS		643.0900 SIGNS		
			APPROXIMATE SERVICE	PROJECT	TYPE III	TYPE A	SIGN				
			DAYS	EA	NO. IN SERVICE	DAYS	NO. IN SERVICE	DAYS	NO. IN SERVICE	DAYS	
1+00	-	117+00	CTH G	61	1	25	1,525	50	3,050	30	1,830
TOTALS				1		1,525		3,050		1,830	

SAWING ASPHALT

690.0150 SAWING ASPHALT	CATEGORY	LOCATION	OFFSET	LF	
	0010	1+00	LIMITS	LT/RT	30
	0010	29+00	SHORT RD	RT	25
	0010	29+25	SHORT RD	LT	21
	0010	29+75	DWY	RT	26
	0010	31+25	DWY	RT	22
	0010	48+72	DWY	RT	28
	0010	52+50	DWY	LT	23
	0010	54+50	DWY	RT	19
	0010	60+25	DWY	RT	32
	0010	64+25	SUNRISE DR	RT	24
	0010	86+00	DWY	RT	37
	0010	100+00	M-B LANE	RT	35
	0010	108+50	DWY	RT	30
	0020	110+70	WATER VALVE	-	12
	0020	116+50	MH ADJUST	-	24

3

PAVEMENT MARKING SUMMARY

STATION TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW)		646.612 MARKING STOP LINE EPOXY 18-INCH (WHITE)	
			LF	LF	LF	LF
1+00	-	14+00	CTH G	348	2,780	--
14+00	-	25+00	CTH G	1,241	1,986	--
25+00	-	50+00	CTH G	4,916	4,916	--
50+00	-	61+00	CTH G	1,495	2,392	--
61+00	-	109+00	CTH G	1,194	9,550	20
109+00	-	116+81	CTH G	1,580	0	--
UNDISTRIBUTED				226	376	--
TOTAL				11,000	22,000	20
				33,000		

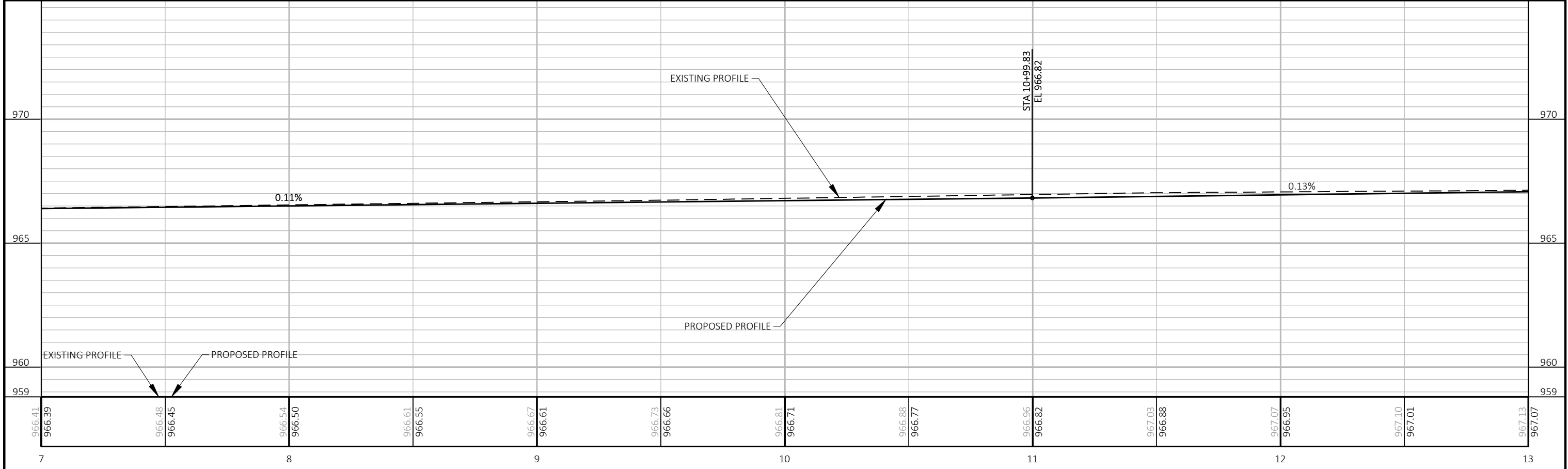
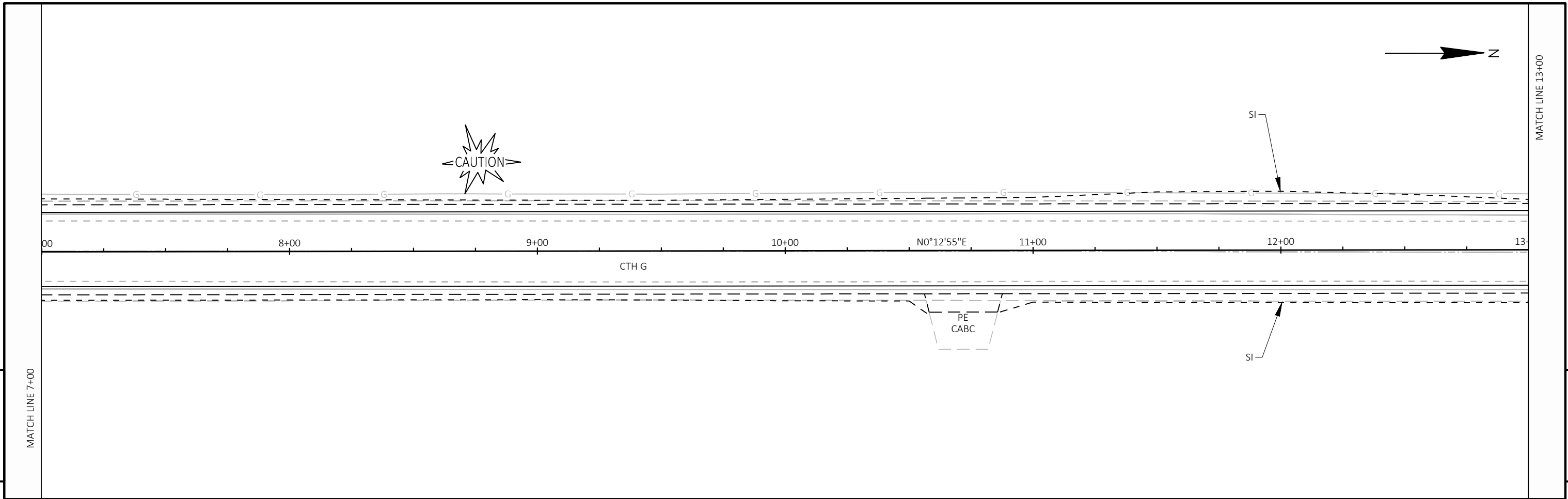
TOTAL 388

650.4500	650.5000	650.8000	650.9920
CONSTRUCTION STAKING SUBGRADE	CONSTRUCTION STAKING BASE	CONSTRUCTION STAKING RESURFACING REFERENCE	CONSTRUCTION STAKING SLOPE STAKES

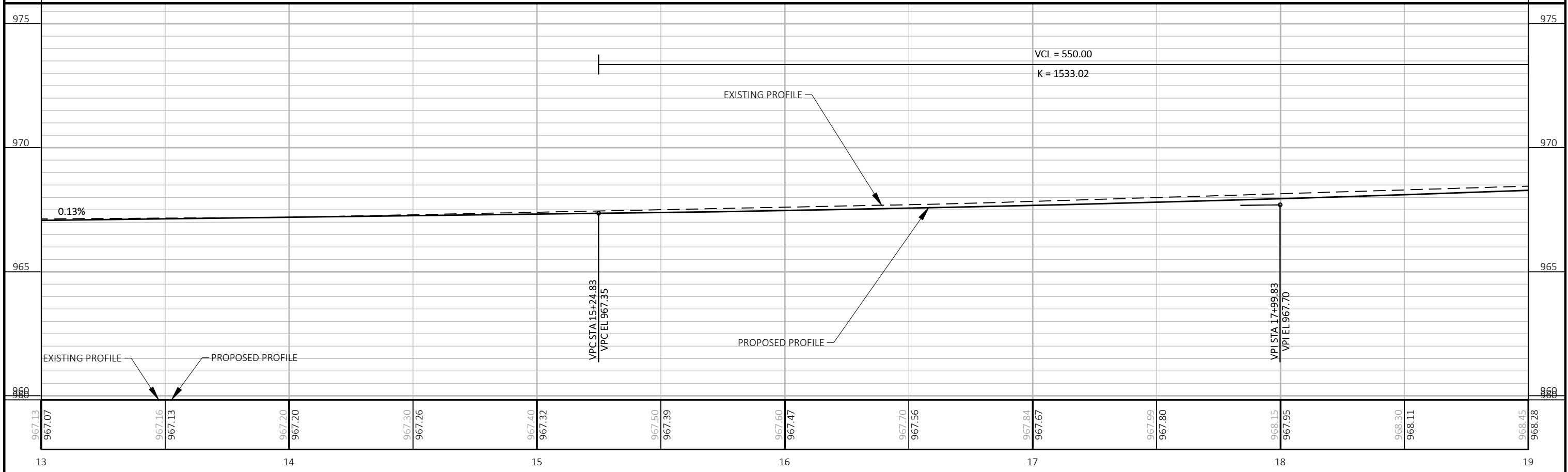
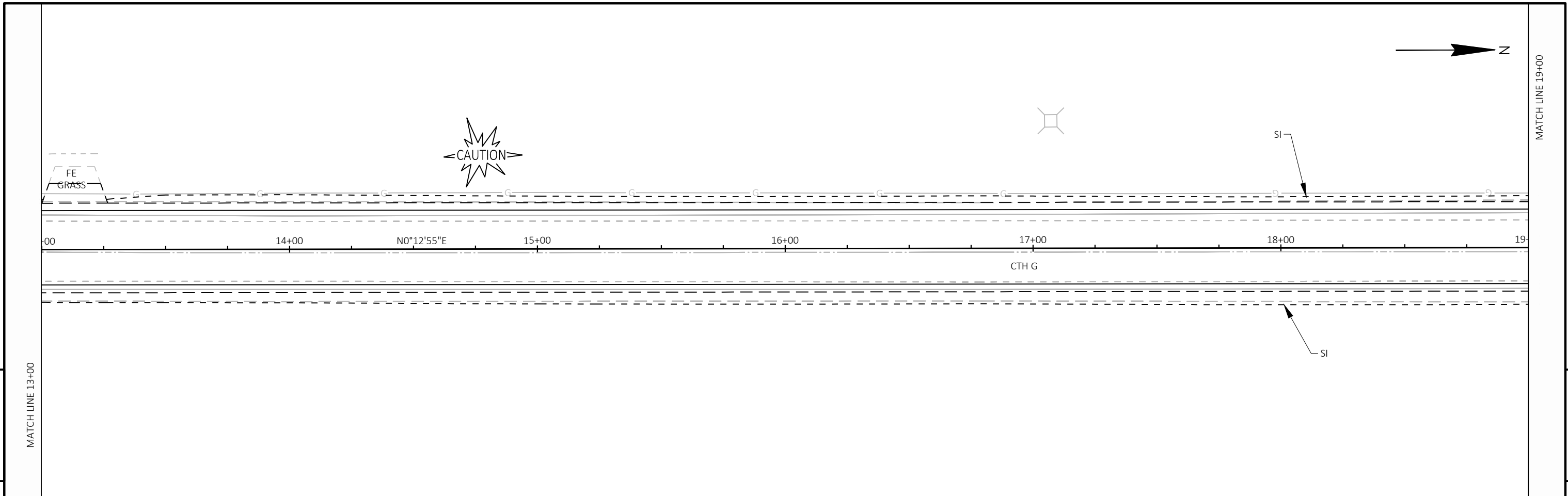
STA TO	STA	LOCATION	OFFSET	LF	LF	LF	LF	COMMENT
1+00	-	35+50	CTH G	LT/RT	--	3,450	--	PULVERIZE
35+50	-	47+00	CTH G	LT/RT	1,150	1,150	--	RECONSTRUCT
47+00	-	109+25	CTH G	LT/RT	--	6,225	--	PULVERIZE
109+25	-	116+81	CTH G	LT/RT	--	--	756	MILL

TOTAL 1,150 10,825 756 10,825

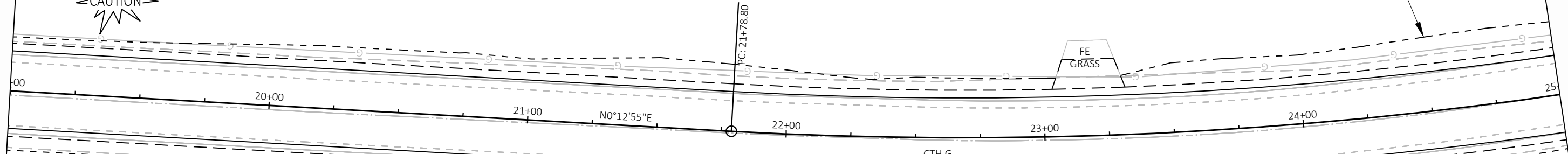
ALL ITEMS 0010 CATEGORY UNLESS OTHERWISE LISTED



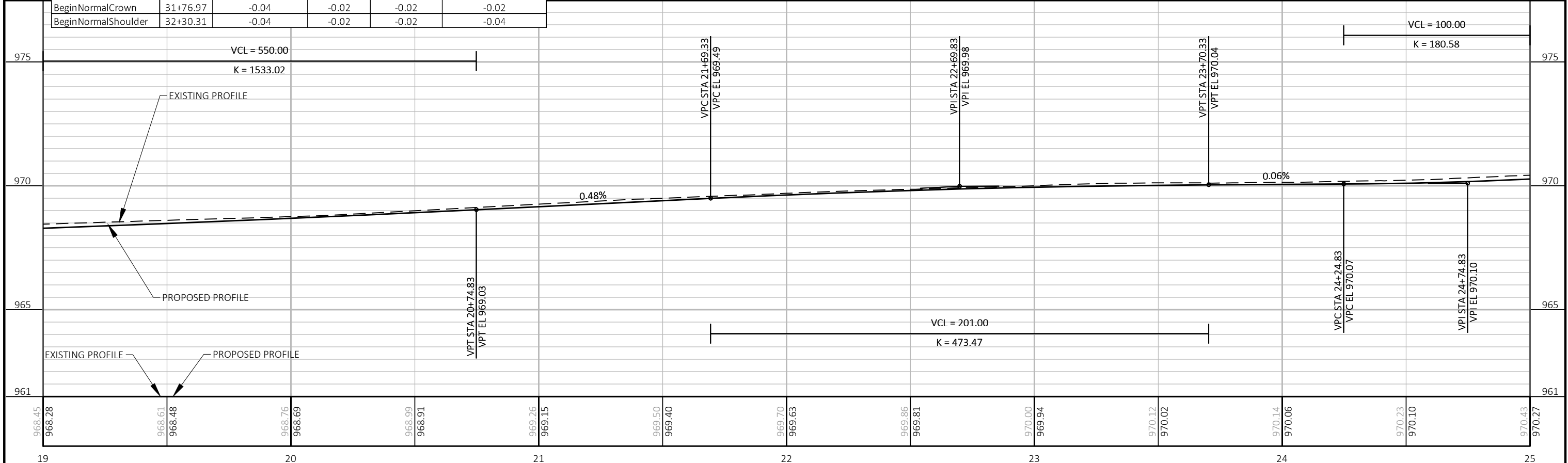
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET PLAN AND PROFILE: CTH G SHEET: E



PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET E
------------------------	------------	-----------------	-------------------------	---------



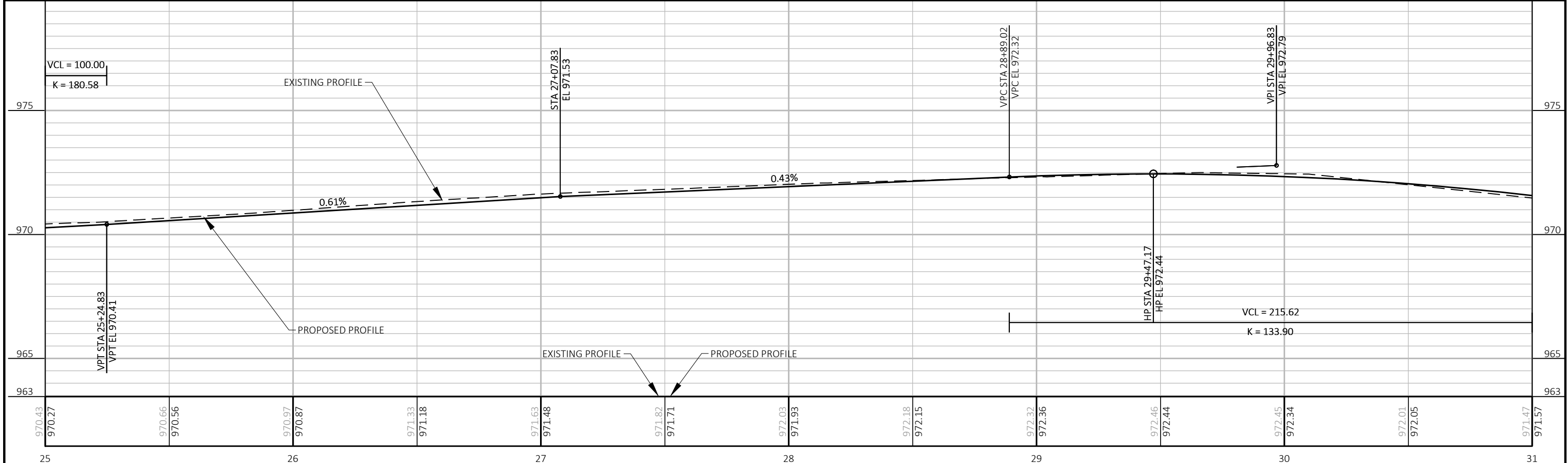
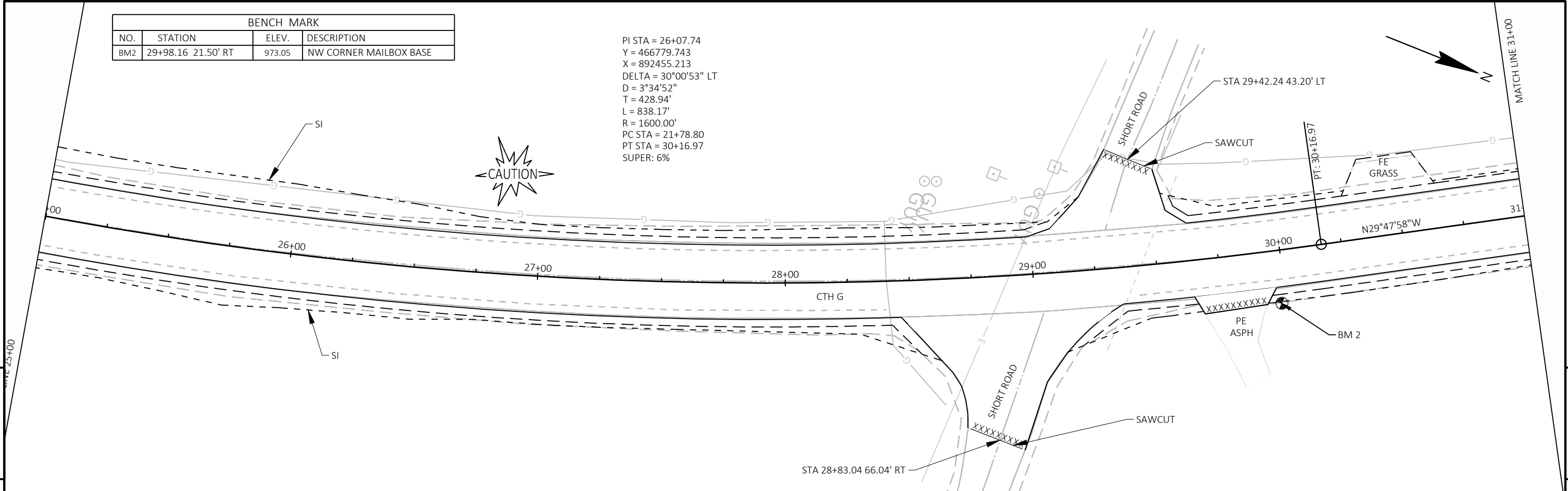
SUPERELEVATION REPORT FOR 'CTHG-BEST-FIT'					
TRANSITION EVENT POINTS		RATE (FT/FT)			
LOCATION	STATION	LEFT OF CROWLINE		RIGHT OF CROWLINE	
		LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
CURVE 1					
EndNormalShoulder	19+65.46	-0.04	-0.025	-0.02	-0.04
EndNormalCrown	20+18.79	-0.04	-0.025	-0.02	-0.02
LevelCrown	20+72.13	-0.04	-0.025	0	0
ReverseCrown	21+25.46	-0.04	-0.025	0.02	0.02
LowShoulderMatch	21+78.79	-0.04	-0.04	0.04	0.04
BeginFullSuper	22+32.13	-0.06	-0.06	0.06	0.06
EndFullSuper	29+63.64	-0.06	-0.06	0.06	0.06
LowShoulderMatch	30+16.97	-0.04	-0.04	0.04	0.04
ReverseCrown	30+70.31	-0.04	-0.02	0.02	0.02
LevelCrown	31+23.64	-0.04	-0.02	0	0
BeginNormalCrown	31+76.97	-0.04	-0.02	-0.02	-0.02
BeginNormalShoulder	32+30.31	-0.04	-0.02	-0.02	-0.04



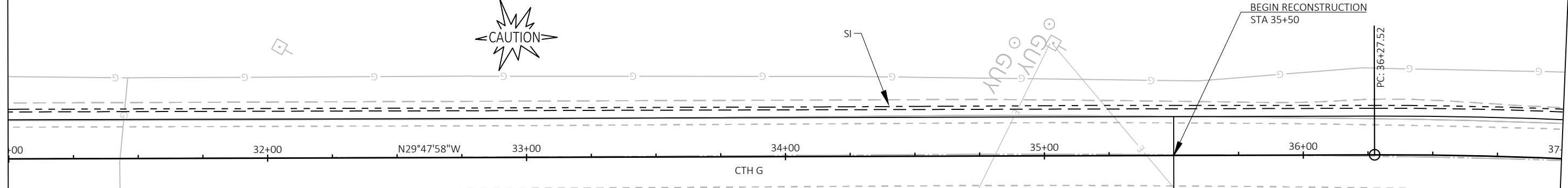
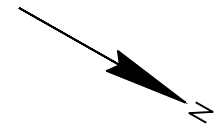
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET PLAN AND PROFILE: CTH G SHEET: E

BENCH MARK			
NO.	STATION	ELEV.	DESCRIPTION
BM2	29+98.16 21.50' RT	973.05	NW CORNER MAILBOX BASE

PI STA = 26+07.74
 Y = 466779.743
 X = 892455.213
 DELTA = 30°00'53" LT
 D = 3°34'52"
 T = 428.94'
 L = 838.17'
 R = 1600.00'
 PC STA = 21+78.80
 PT STA = 30+16.97
 SUPER: 6%



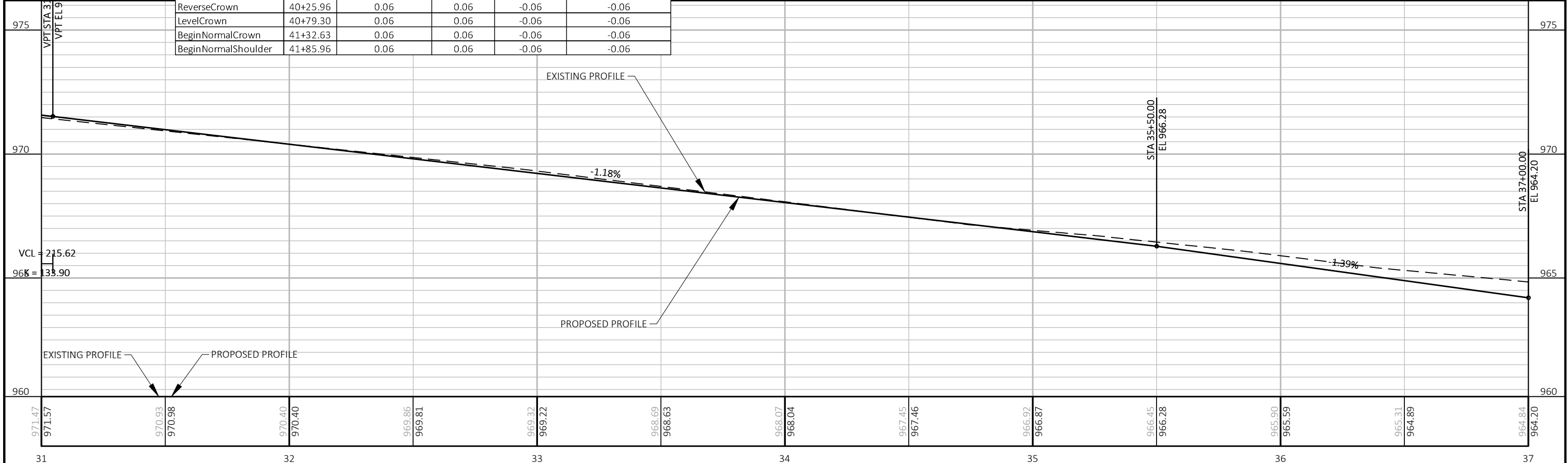
PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET	E
------------------------	------------	-----------------	-------------------------	-------	----------



SUPERELEVATION REPORT FOR 'CTHG-BEST-FIT'					
TRANSITION EVENT POINTS		RATE (FT/FT)			
LOCATION	STATION	LEFT OF CROWNLINE		RIGHT OF CROWNLINE	
		LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
CURVE 2					
EndNormalShoulder	34+14.18	-0.04	-0.02	-0.02	-0.04
EndNormalCrown	35+18.73	-0.02	-0.02	-0.02	-0.04
LevelCrown	35+59.24	0	0	-0.02	-0.04
ReverseCrown	35+99.79	0.02	0.02	-0.02	-0.04
LowShoulderMatch	36+40.66	0.04	0.04	-0.04	-0.04
BeginFullSuper	36+80.85	0.06	0.06	-0.06	-0.06
EndFullSuper	39+19.30	0.06	0.06	-0.06	-0.06
LowShoulderMatch	39+72.63	0.06	0.06	-0.06	-0.06
ReverseCrown	40+25.96	0.06	0.06	-0.06	-0.06
LevelCrown	40+79.30	0.06	0.06	-0.06	-0.06
BeginNormalCrown	41+32.63	0.06	0.06	-0.06	-0.06
BeginNormalShoulder	41+85.96	0.06	0.06	-0.06	-0.06

5

5



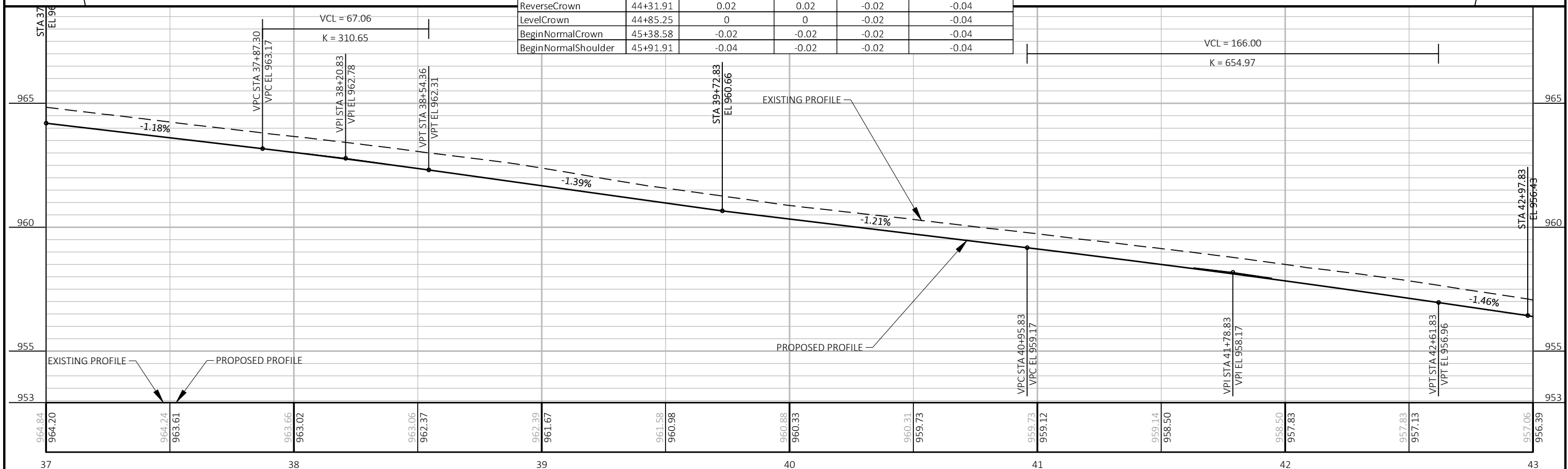
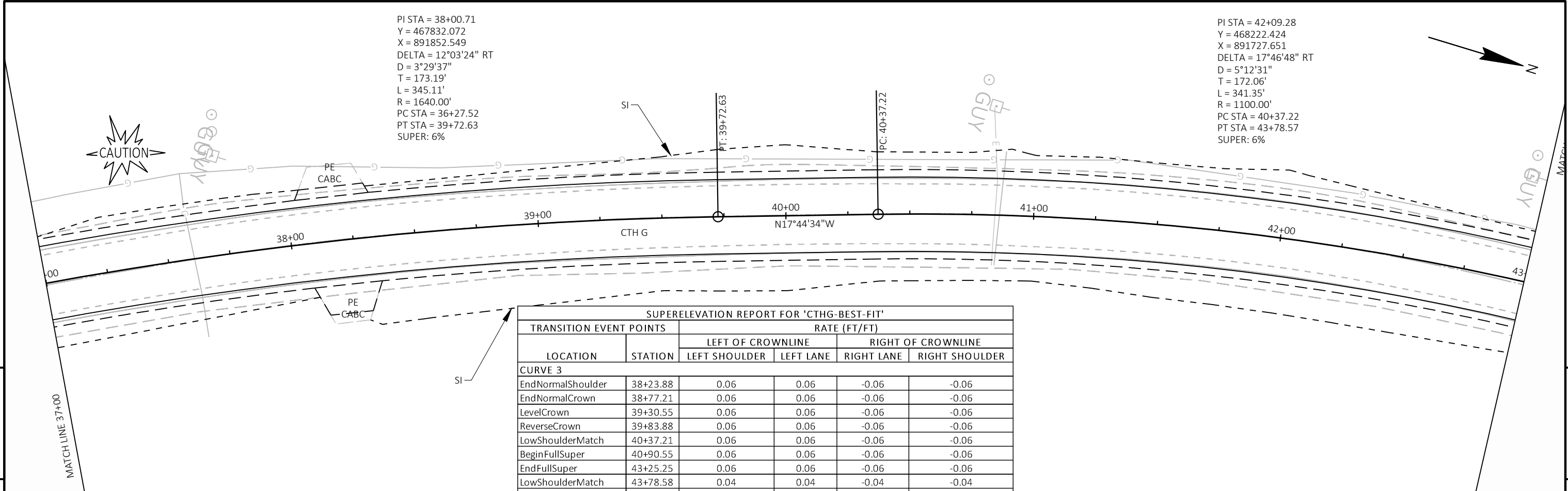
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET PLAN AND PROFILE: CTH G SHEET: E

PI STA = 38+00.71
 Y = 467832.072
 X = 891852.549
 DELTA = 12°03'24" RT
 D = 3°29'37"
 T = 173.19'
 L = 345.11'
 R = 1640.00'
 PC STA = 36+27.52
 PT STA = 39+72.63
 SUPER: 6%

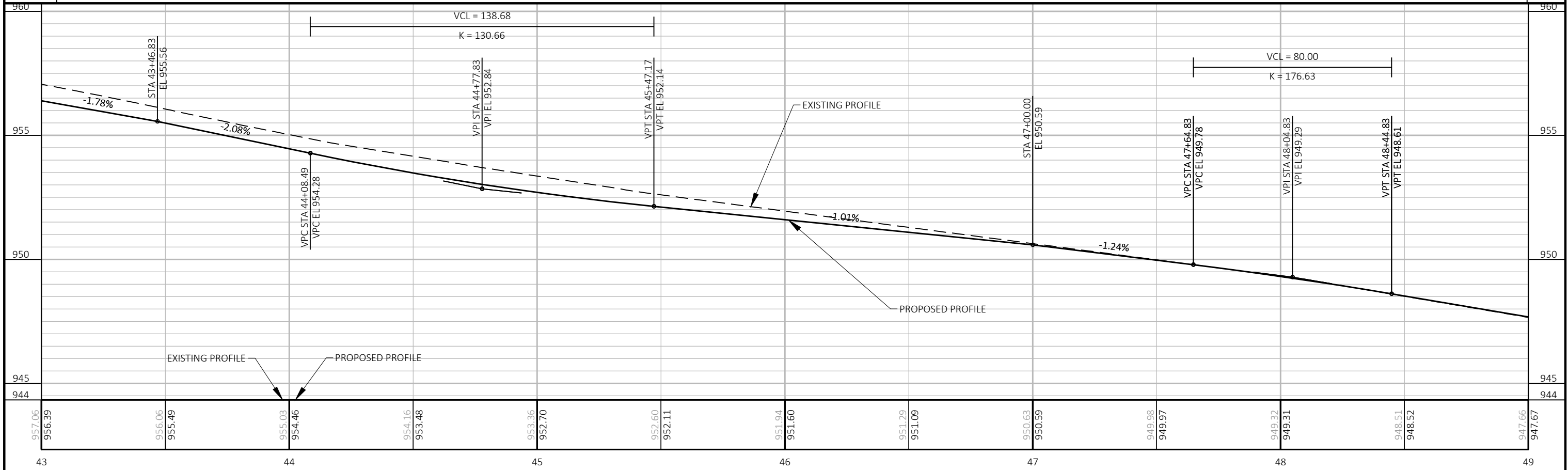
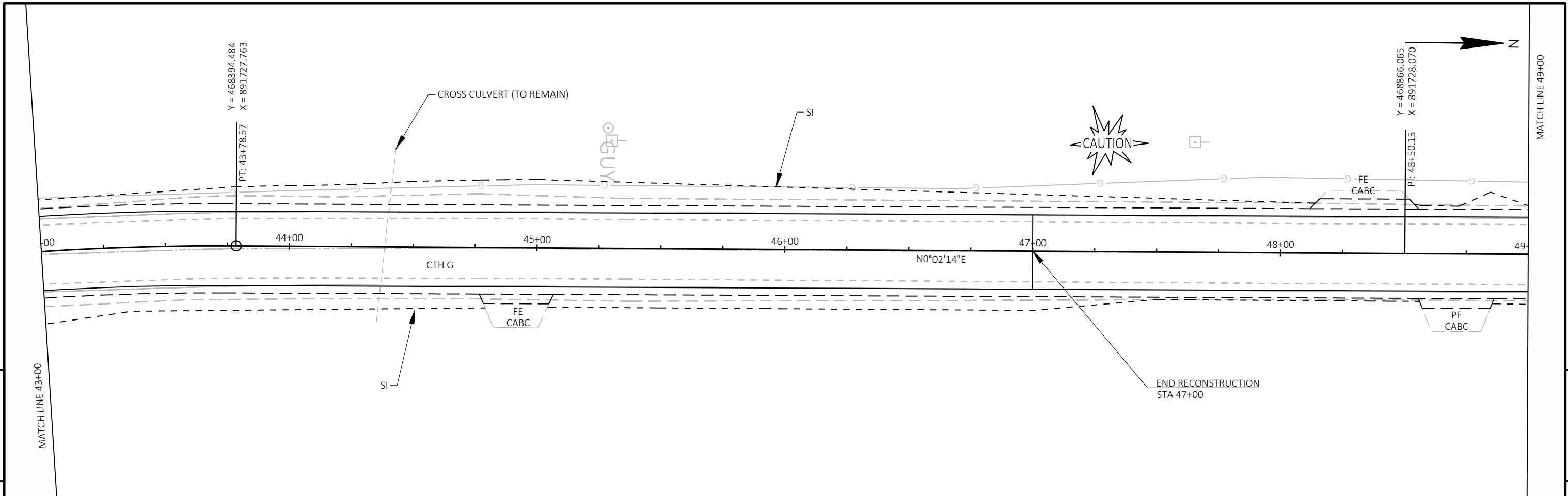
PI STA = 42+09.28
 Y = 468222.424
 X = 891727.651
 DELTA = 17°46'48" RT
 D = 5°12'31"
 T = 172.06'
 L = 341.35'
 R = 1100.00'
 PC STA = 40+37.22
 PT STA = 43+78.57
 SUPER: 6%



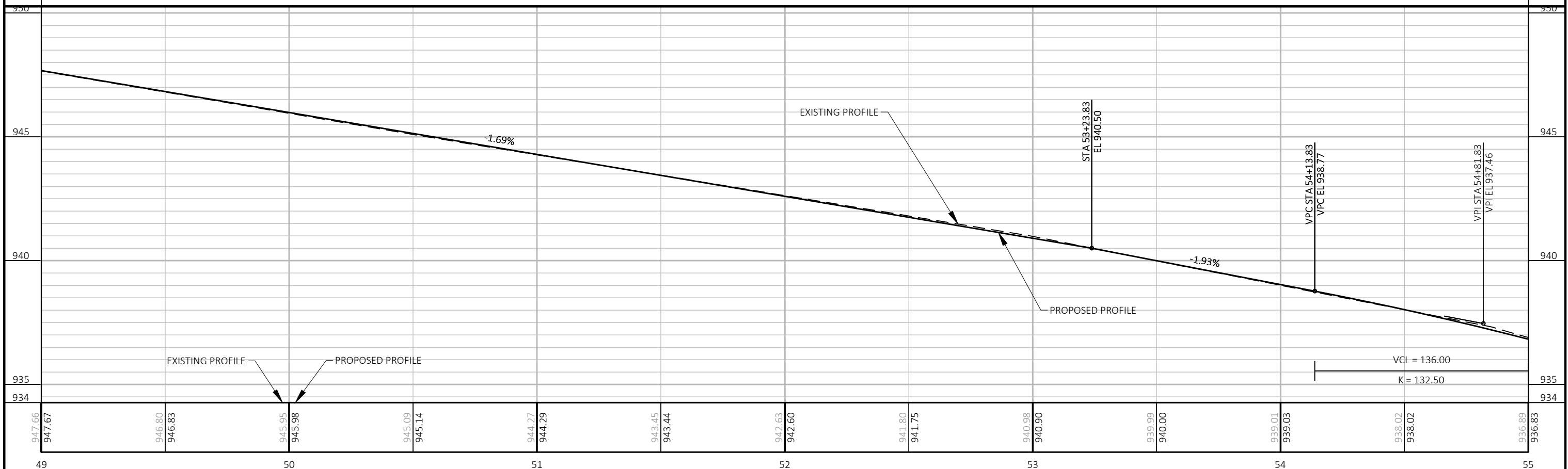
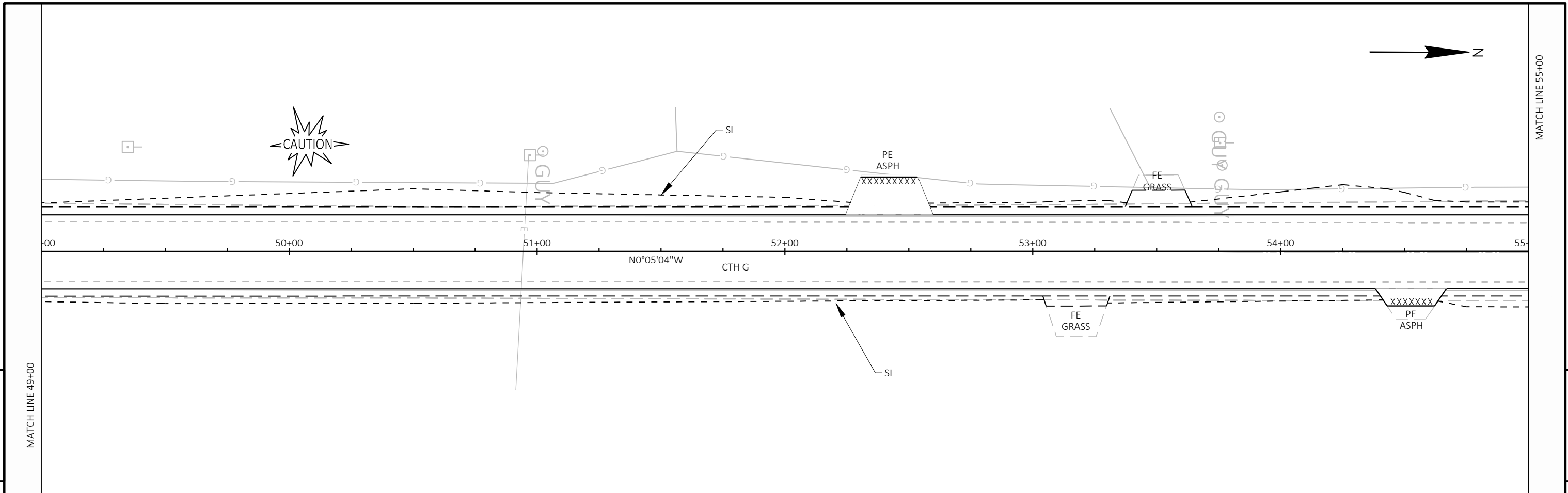
SUPERELEVATION REPORT FOR 'CTHG-BEST-FIT'					
TRANSITION EVENT POINTS		RATE (FT/FT)			
LOCATION	STATION	LEFT OF CROWLINE		RIGHT OF CROWLINE	
		LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
CURVE 3					
EndNormalShoulder	38+23.88	0.06	0.06	-0.06	-0.06
EndNormalCrown	38+77.21	0.06	0.06	-0.06	-0.06
LevelCrown	39+30.55	0.06	0.06	-0.06	-0.06
ReverseCrown	39+83.88	0.06	0.06	-0.06	-0.06
LowShoulderMatch	40+37.21	0.06	0.06	-0.06	-0.06
BeginFullSuper	40+90.55	0.06	0.06	-0.06	-0.06
EndFullSuper	43+25.25	0.06	0.06	-0.06	-0.06
LowShoulderMatch	43+78.58	0.04	0.04	-0.04	-0.04
ReverseCrown	44+31.91	0.02	0.02	-0.02	-0.04
LevelCrown	44+85.25	0	0	-0.02	-0.04
BeginNormalCrown	45+38.58	-0.02	-0.02	-0.02	-0.04
BeginNormalShoulder	45+91.91	-0.04	-0.02	-0.02	-0.04



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET PLAN AND PROFILE: CTH G SHEET: E

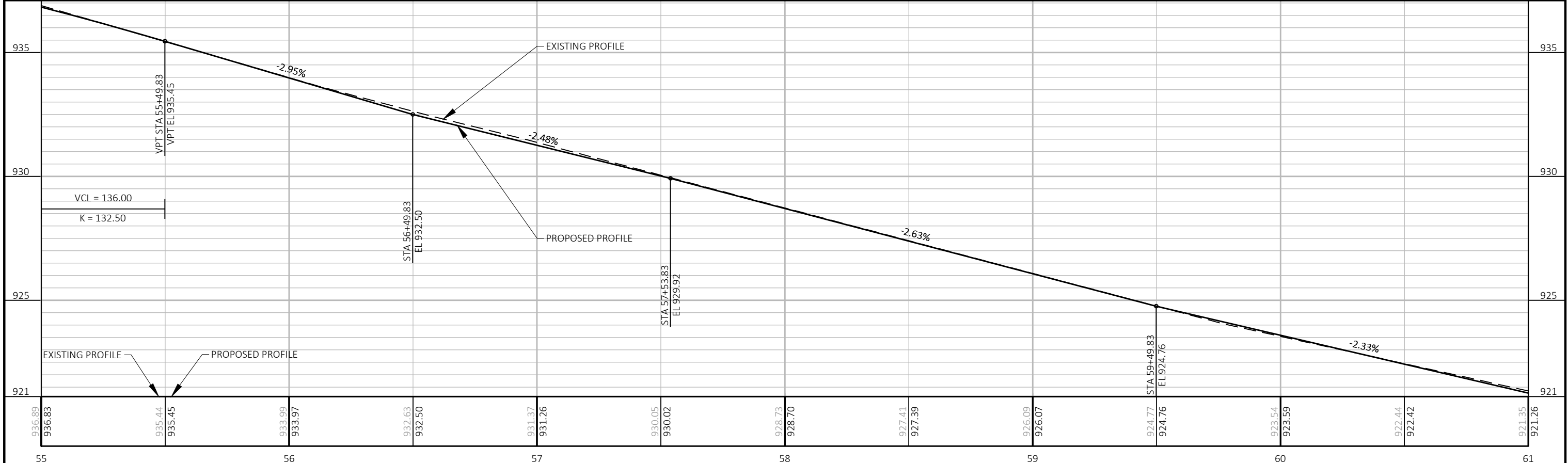
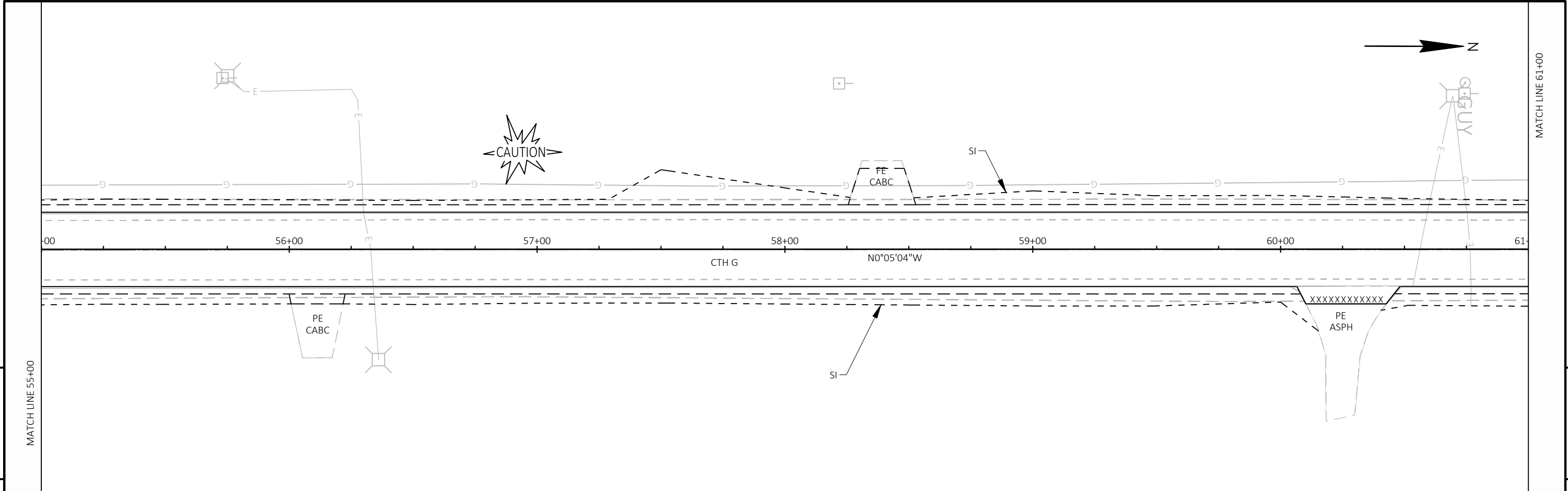


PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET	E
------------------------	------------	-----------------	-------------------------	-------	----------



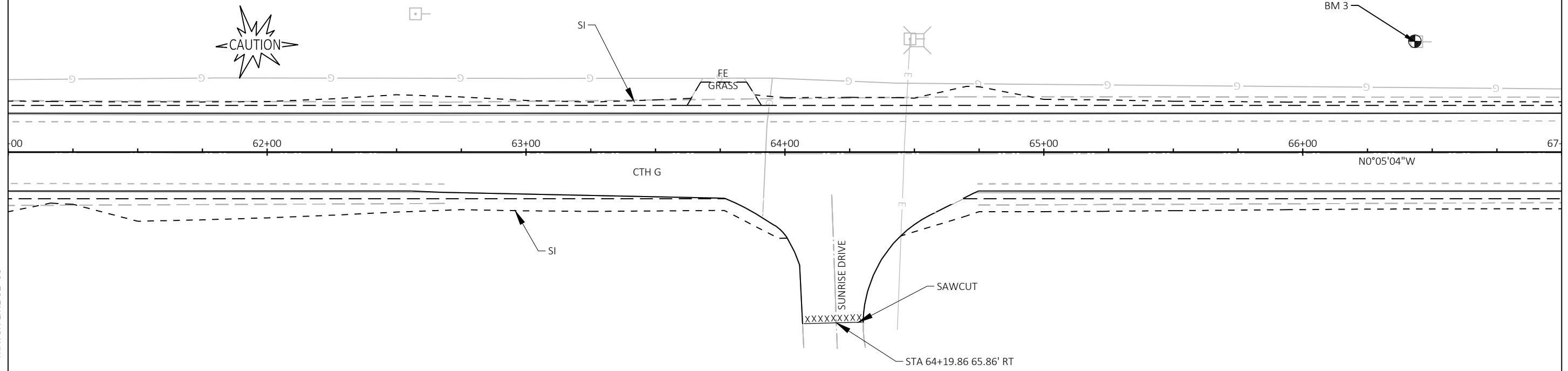
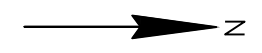
947.66 947.67	946.80 946.83	945.95 945.98	945.09 945.14	944.27 944.29	943.45 943.44	942.63 942.60	941.80 941.75	940.98 940.90	939.99 940.00	939.01 939.03	938.02 938.02	936.89 936.83
49		50		51		52		53		54		55

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET PLAN AND PROFILE: CTH G SHEET: E



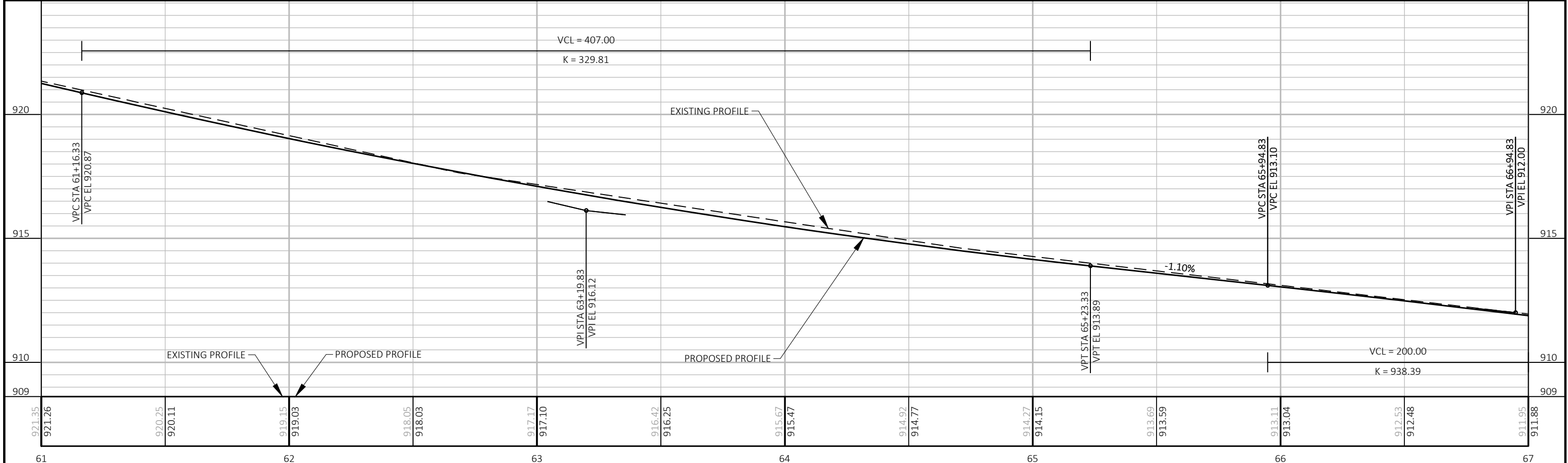
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET PLAN AND PROFILE: CTH G SHEET: E

BENCH MARK			
NO.	STATION	ELEV.	DESCRIPTION
BM3	66+43.26 42.68' LT	912.89	RR SPIKE IN POLE

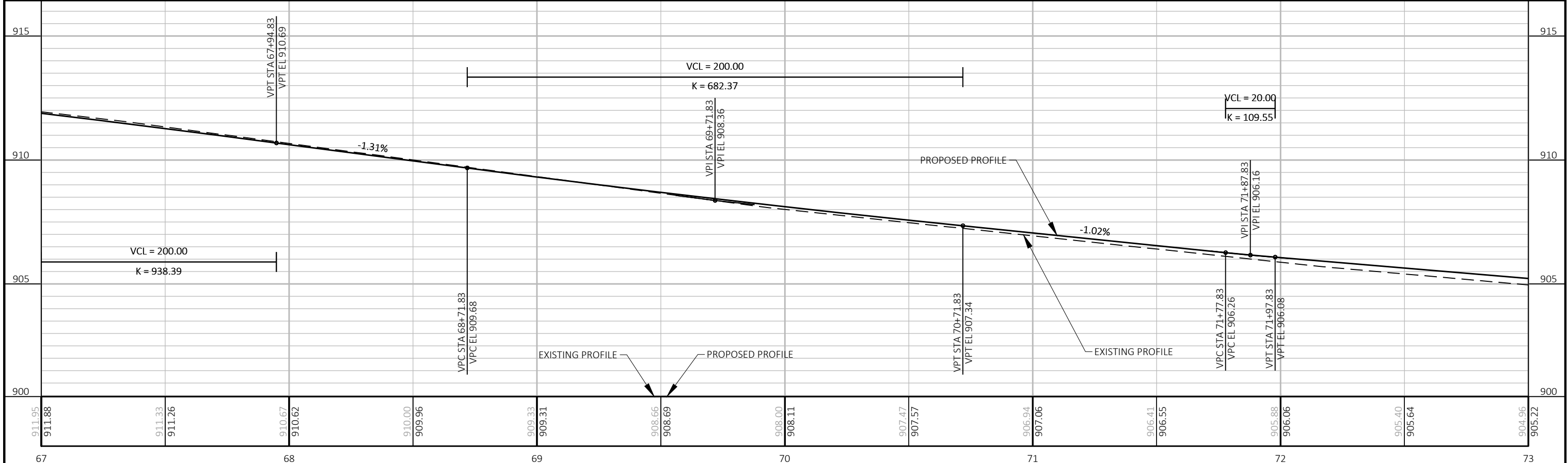
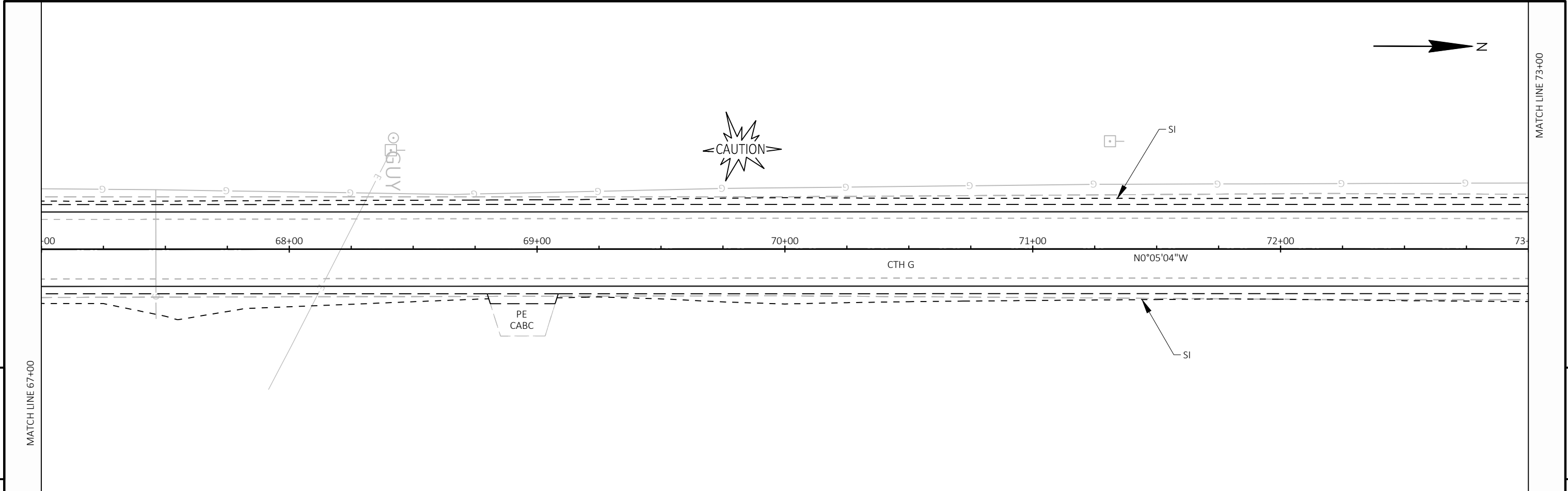


5

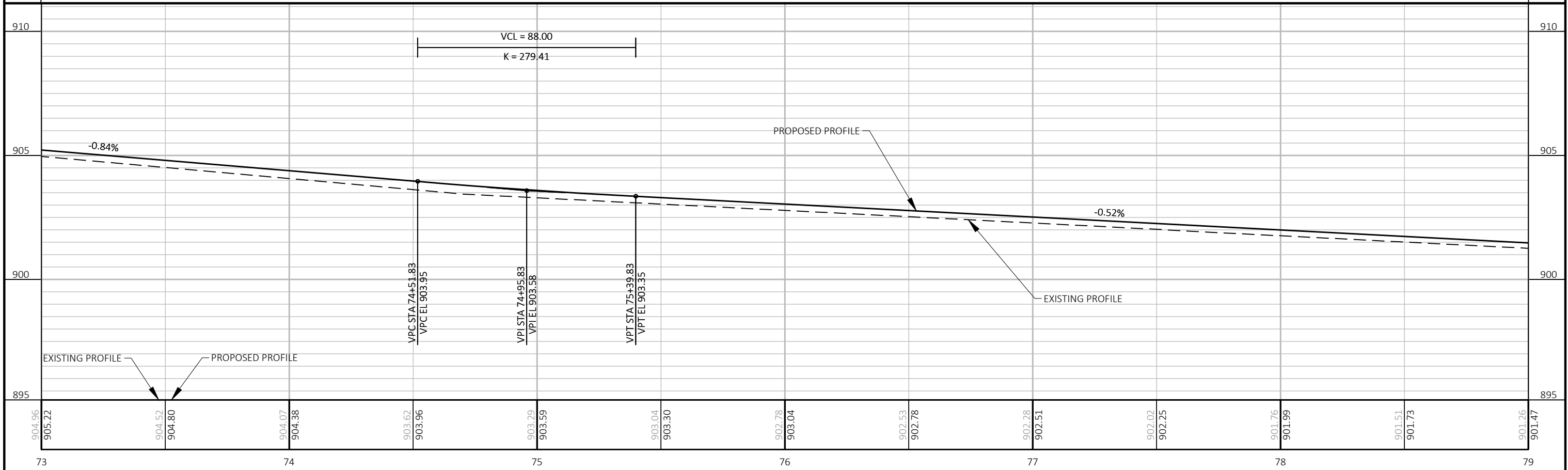
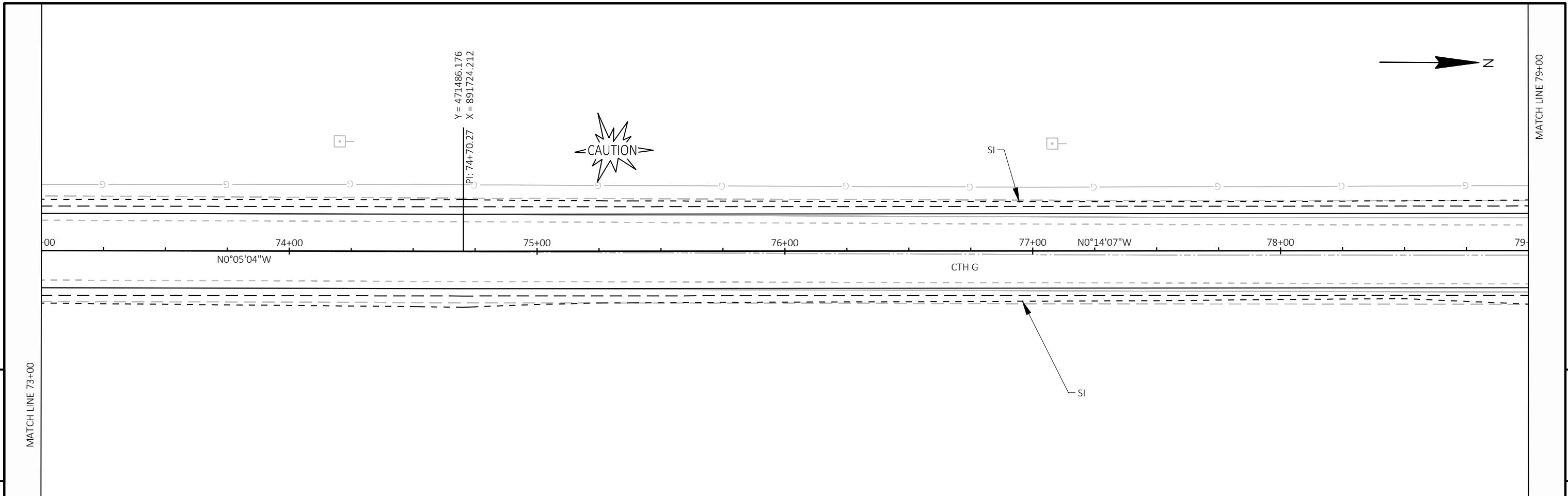
5



PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET	E
------------------------	------------	-----------------	-------------------------	-------	----------

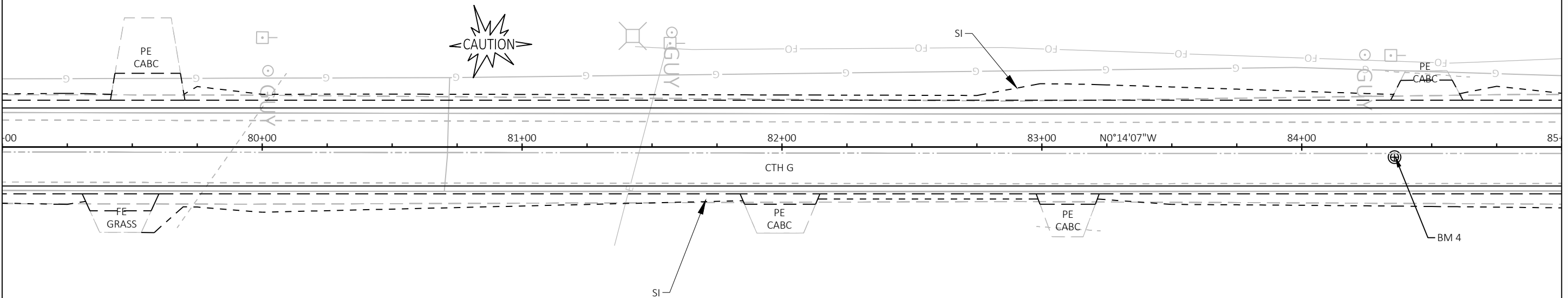


PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET PLAN AND PROFILE: CTH G SHEET: E



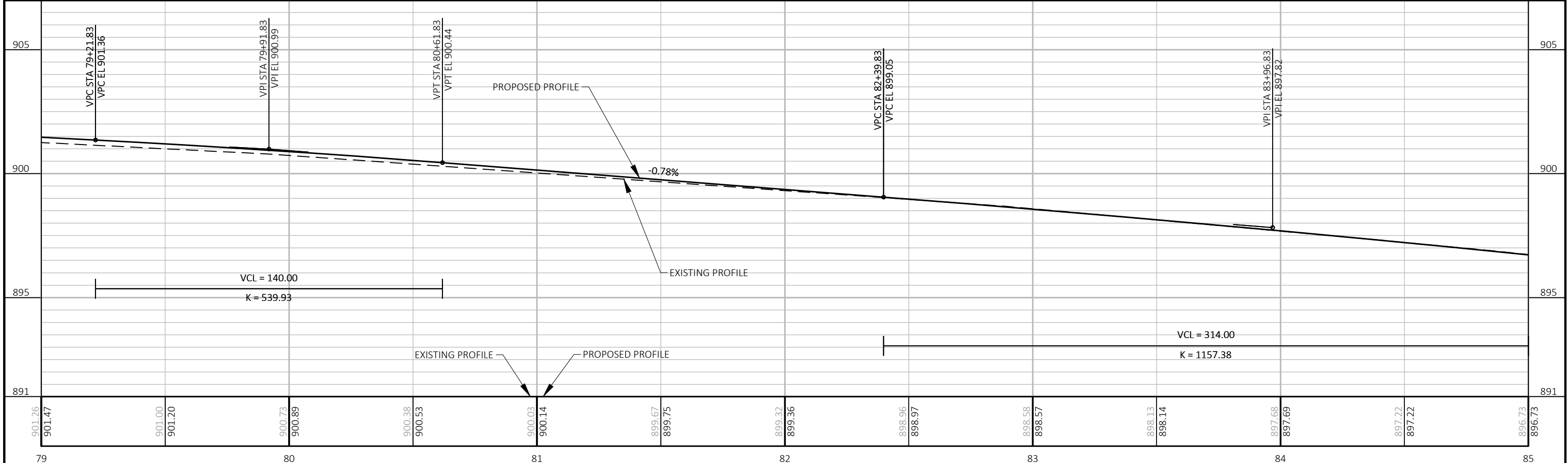
PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET	E
------------------------	------------	-----------------	-------------------------	-------	----------

BENCH MARK			
NO.	STATION	ELEV.	DESCRIPTION
BM4	84+35.69	3.929' RT	897.357 SECTION CORNER

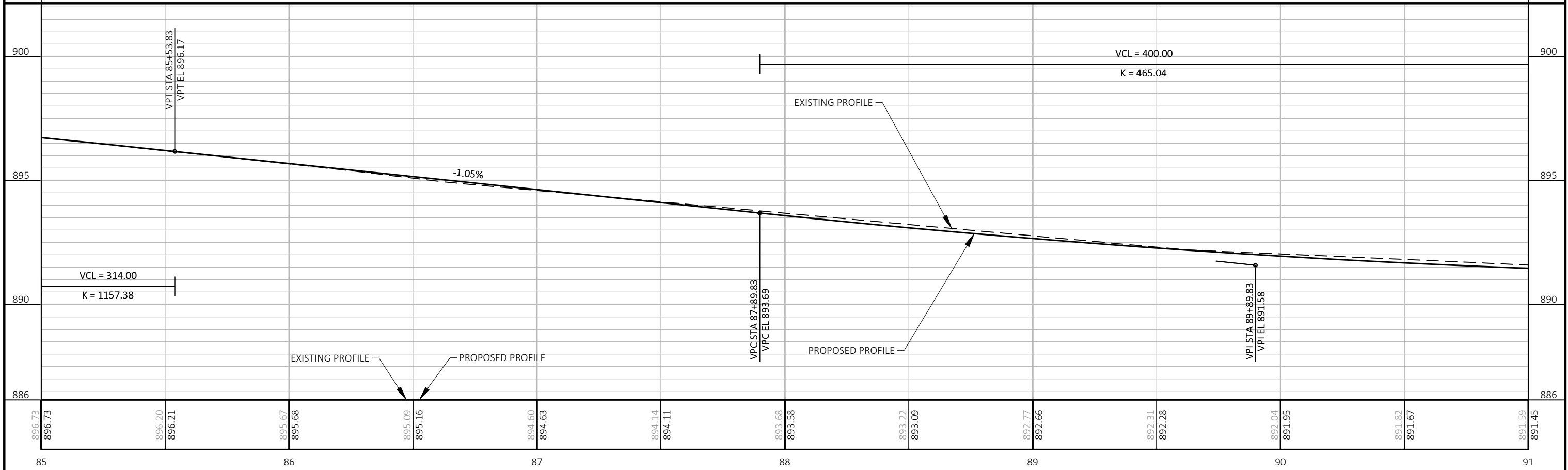
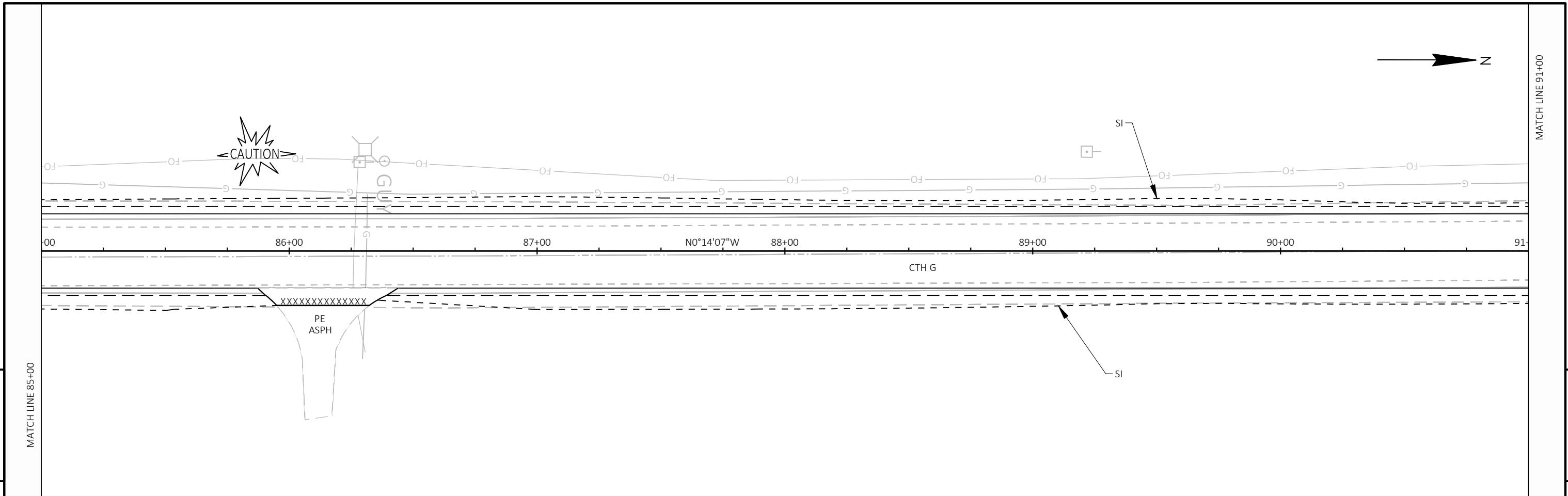


5

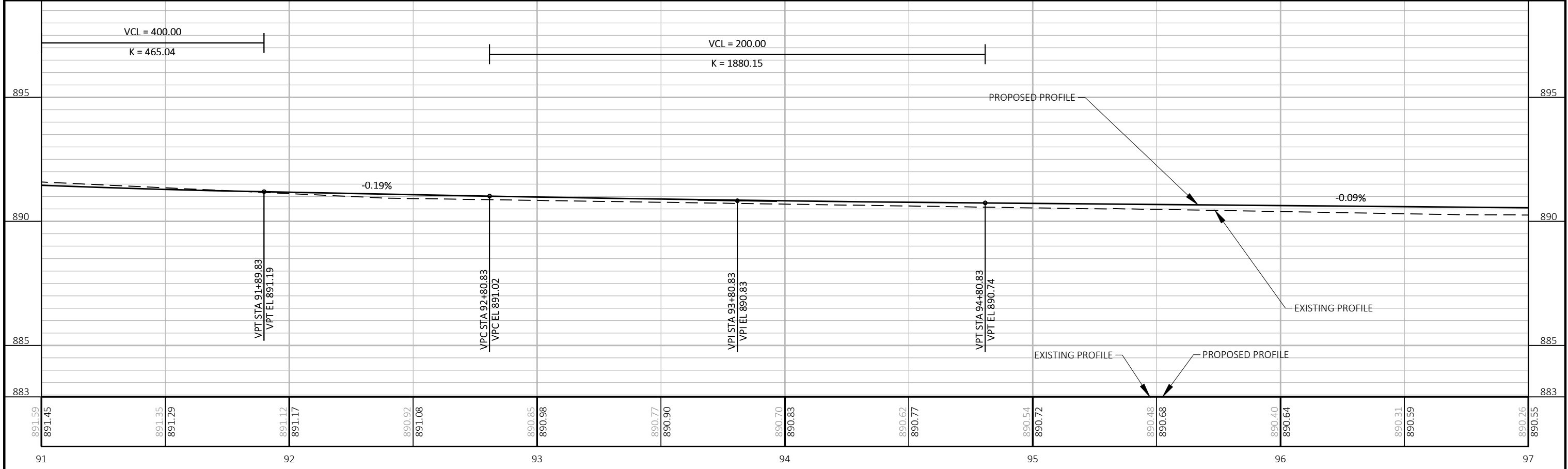
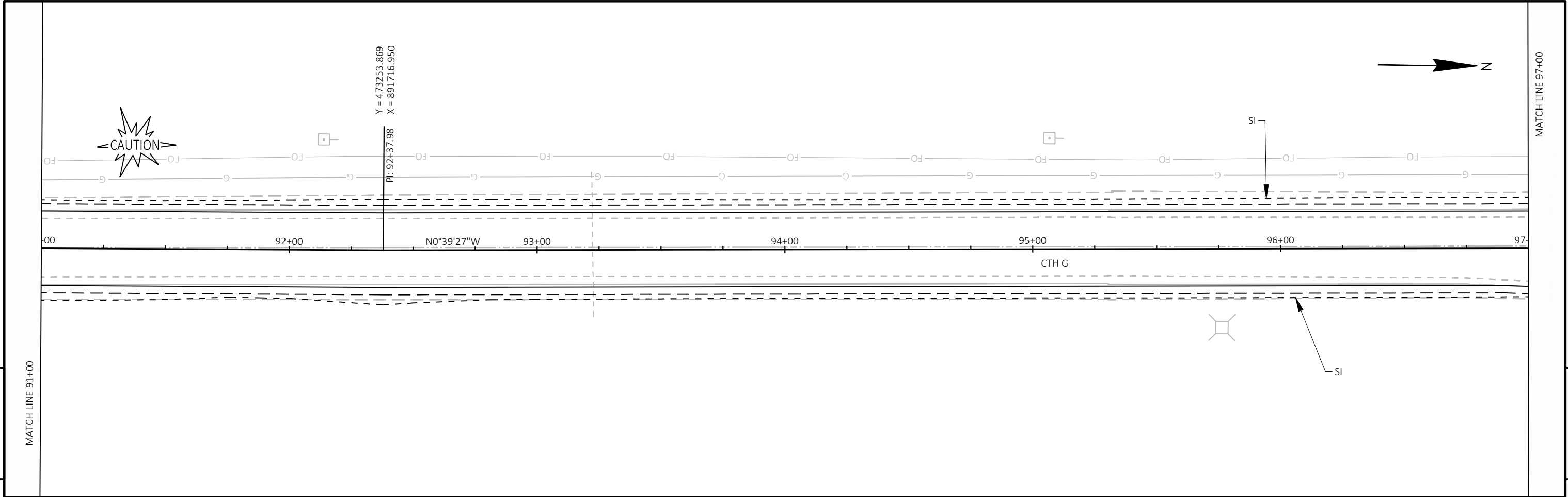
5



PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET	E
------------------------	------------	-----------------	-------------------------	-------	----------

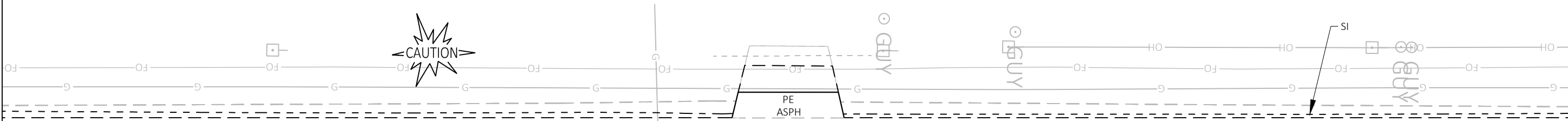


PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET E
------------------------	------------	-----------------	-------------------------	----------------

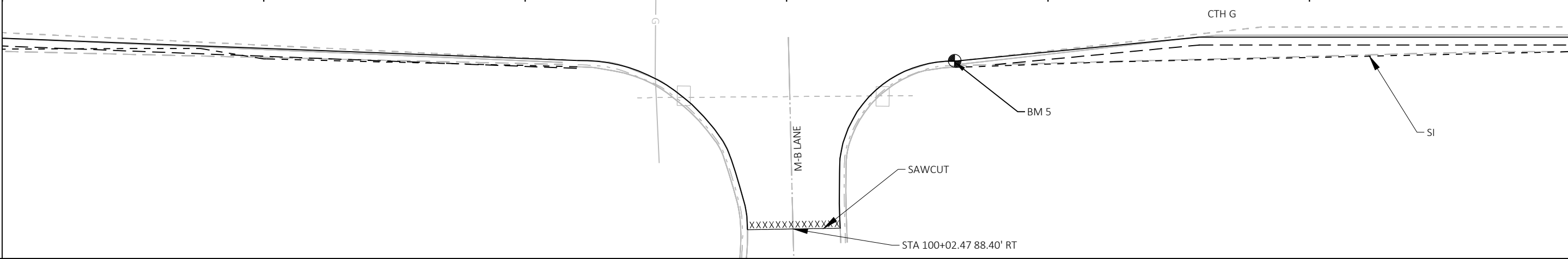


PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET E
------------------------	------------	-----------------	-------------------------	---------

BENCH MARK			
NO.	STATION	ELEV.	DESCRIPTION
BM5	100+64.26 24.04' RT	889.91	NW FLANGE, CORNER OF CURB

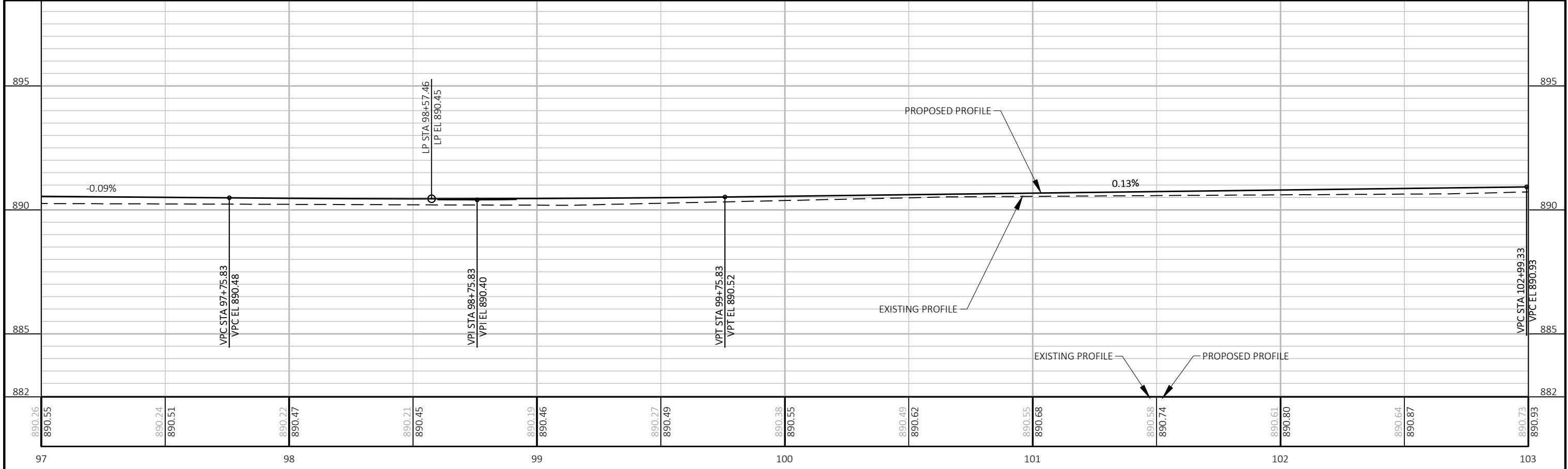


00 98+00 99+00 100+00 101+00 102+00 103

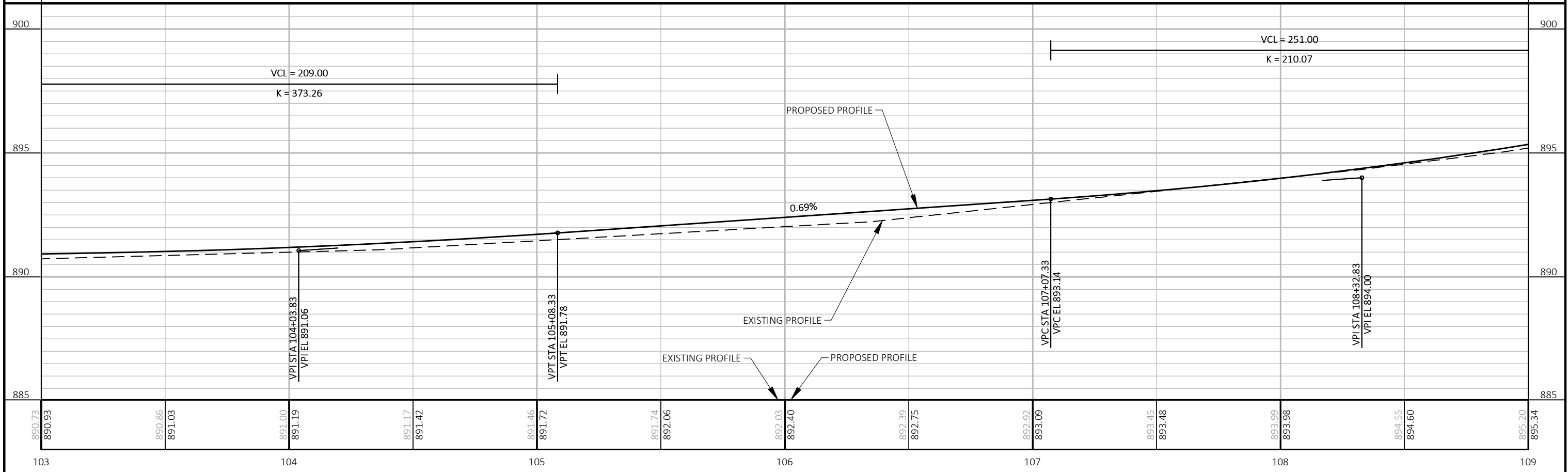
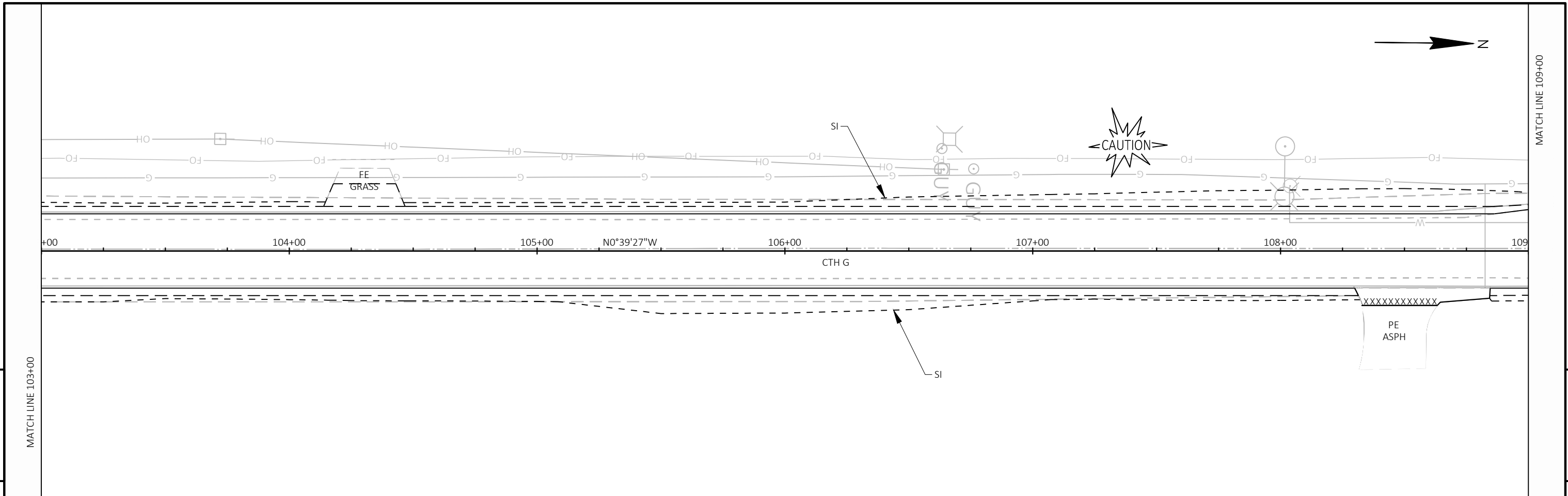


5

5

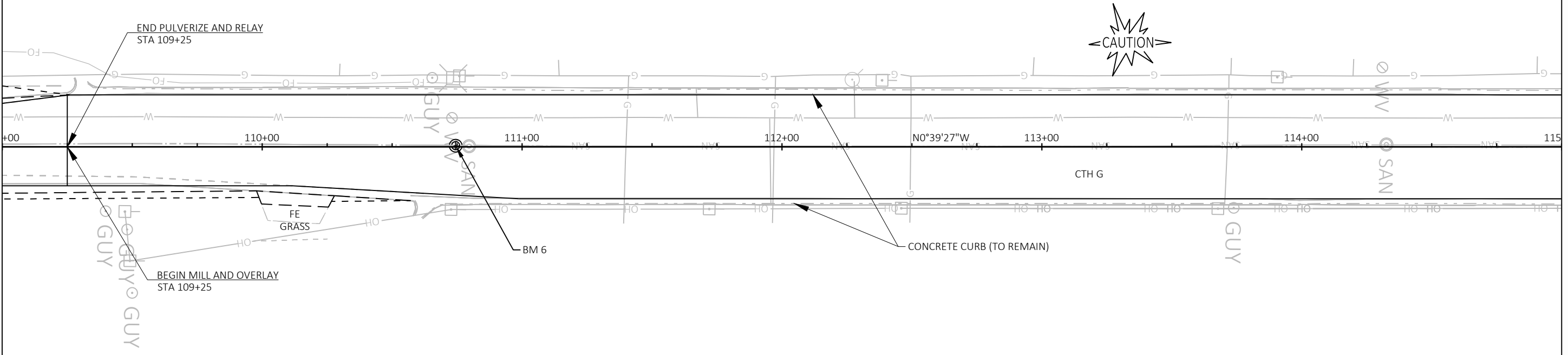


PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET PLAN AND PROFILE: CTH G SHEET E



PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET	E
------------------------	------------	-----------------	-------------------------	-------	----------

BENCH MARK			
NO.	STATION	ELEV.	DESCRIPTION
BM6	110+74.42 0.386' LT	898.299	SECTION CORNER

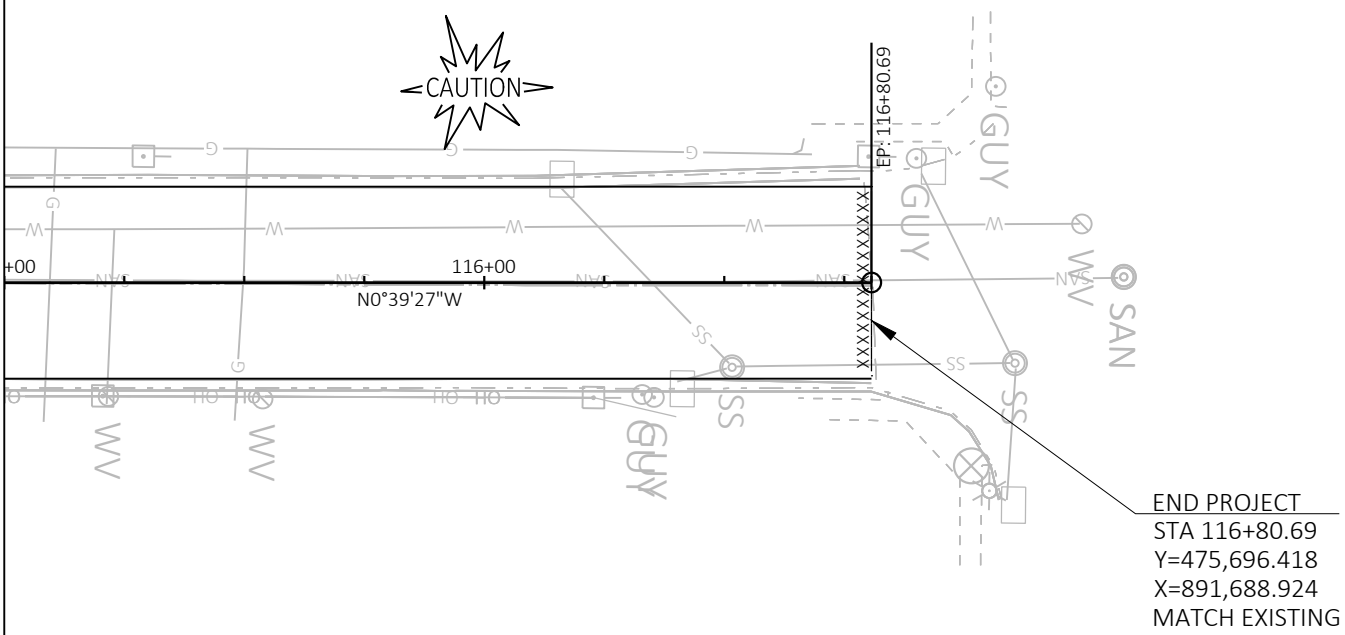


MATCH LINE 109+00

MATCH LINE 115+00

5

5

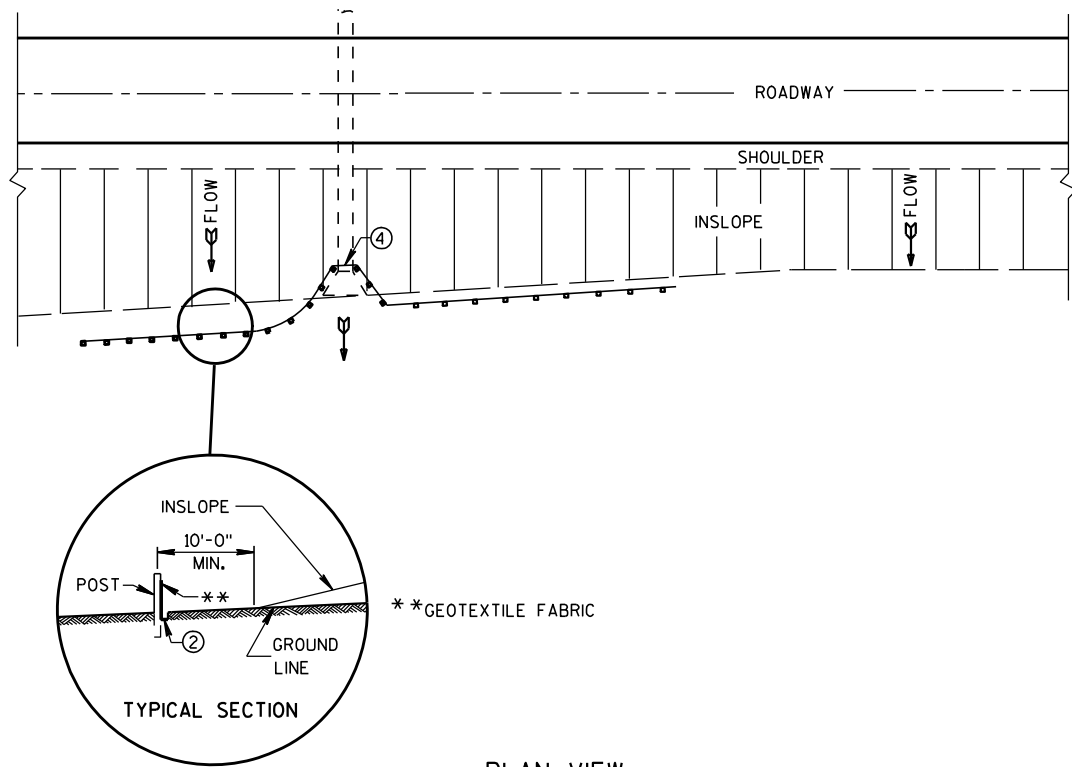


MATCH LINE 115+00

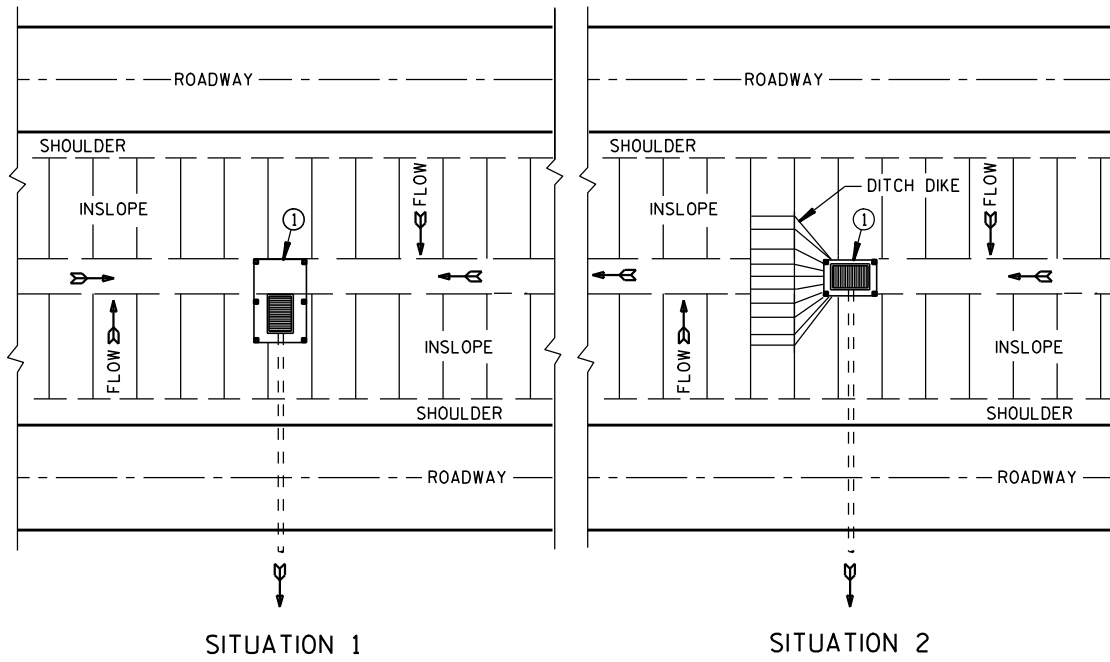
PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	PLAN AND PROFILE: CTH G	SHEET	E
------------------------	------------	-----------------	-------------------------	-------	----------

Standard Detail Drawing List

08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C09-12B	TRUCK STOPPING LANE PAVEMENT MARKINGS
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING



PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

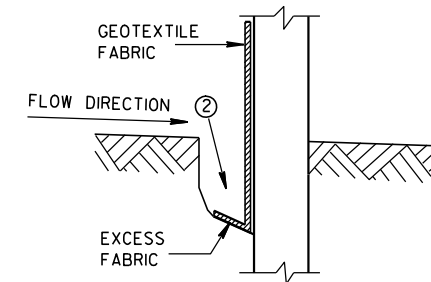


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

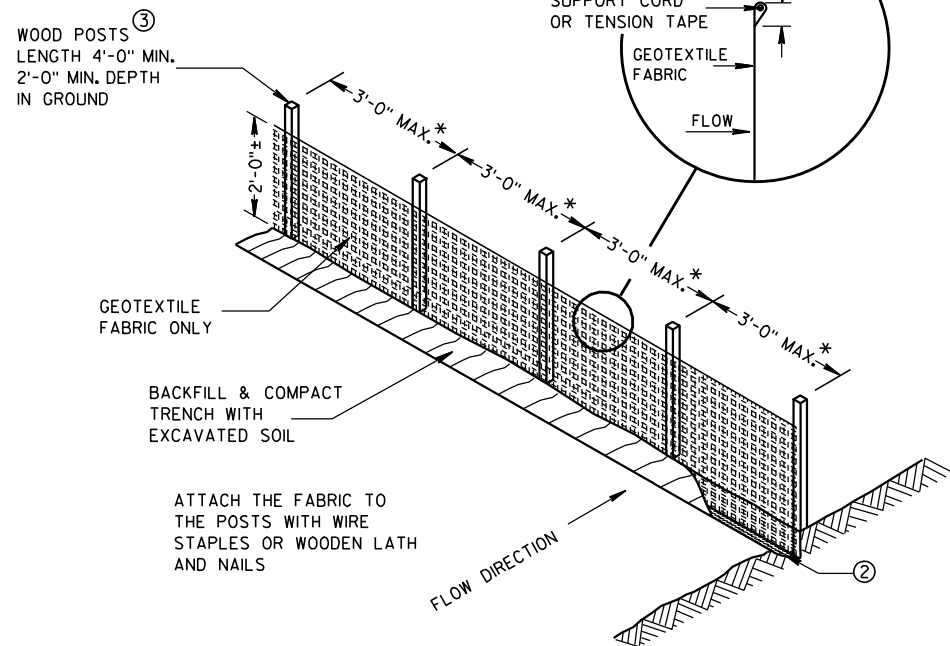
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- 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.



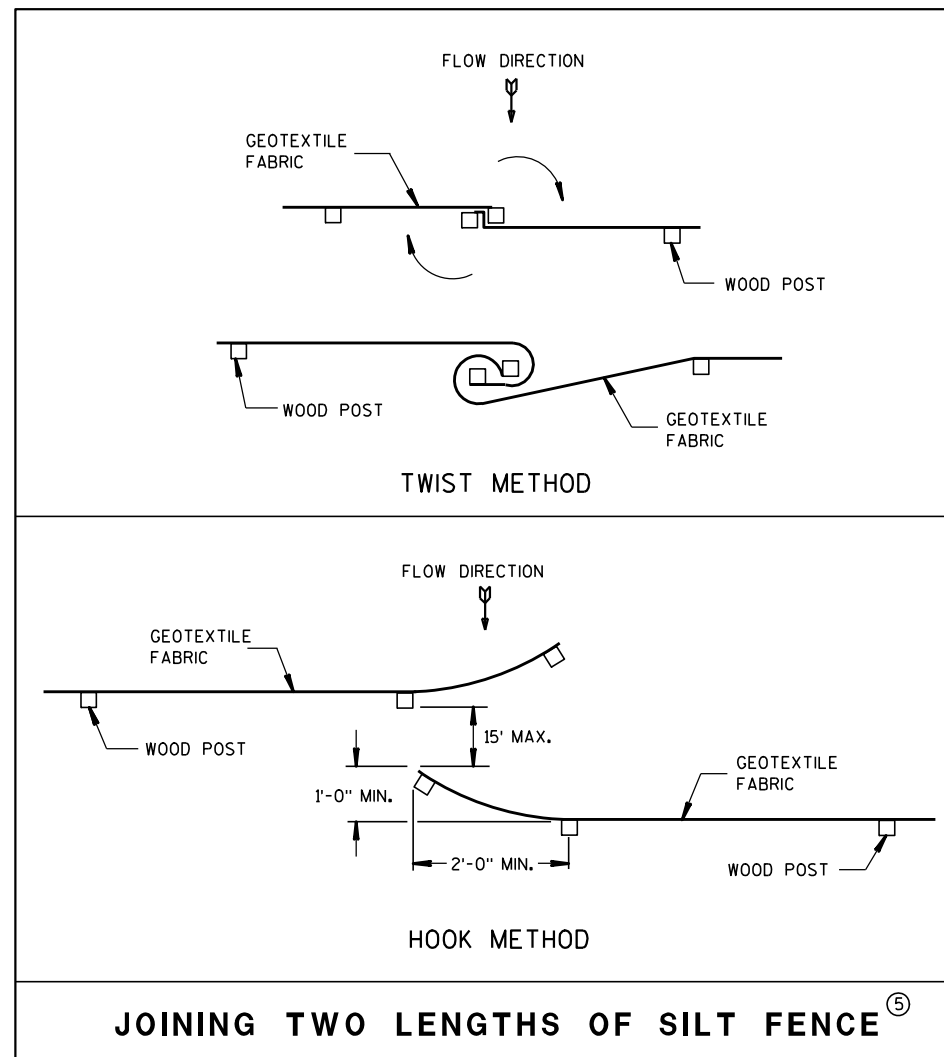
TRENCH DETAIL

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

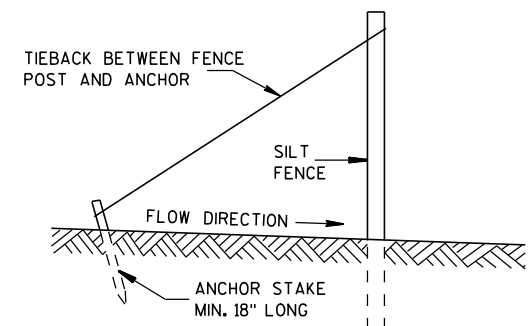


SILT FENCE

* 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

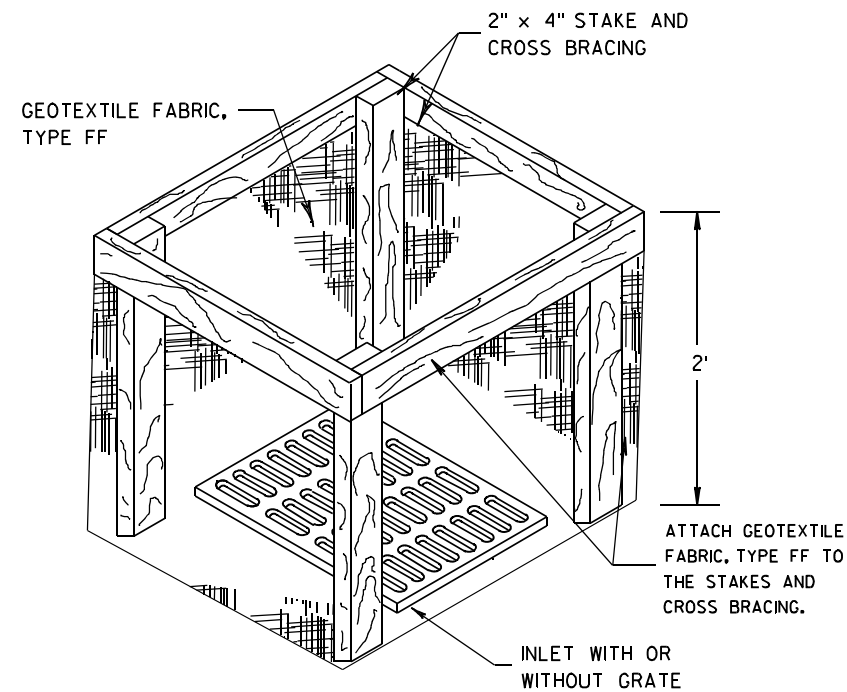
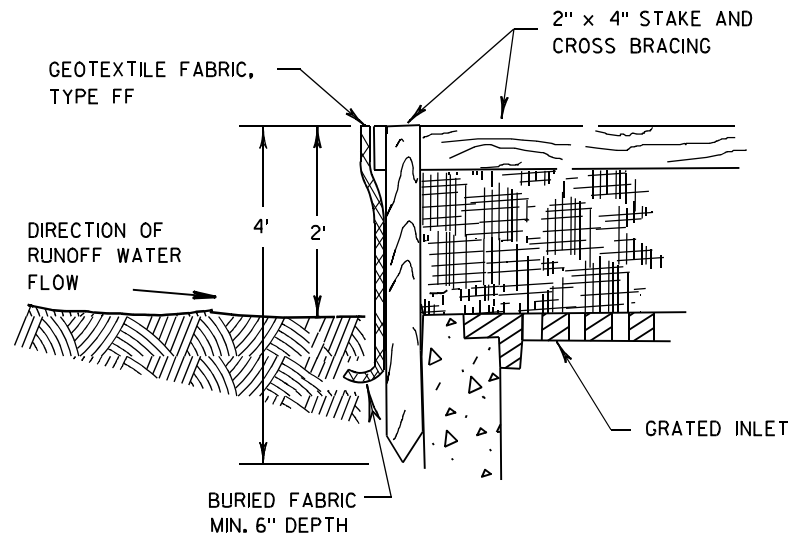
APPROVED

4-29-05

DATE

FHWA

/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



INLET PROTECTION, TYPE A

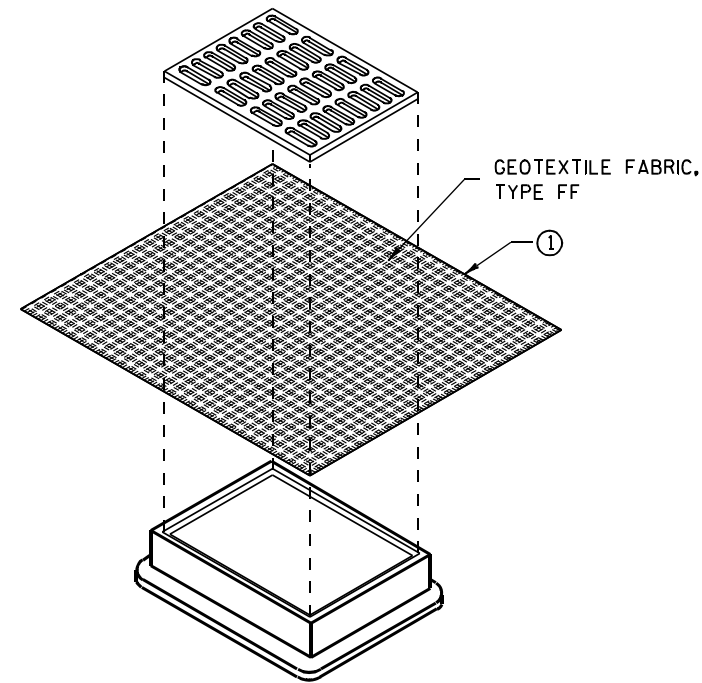
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

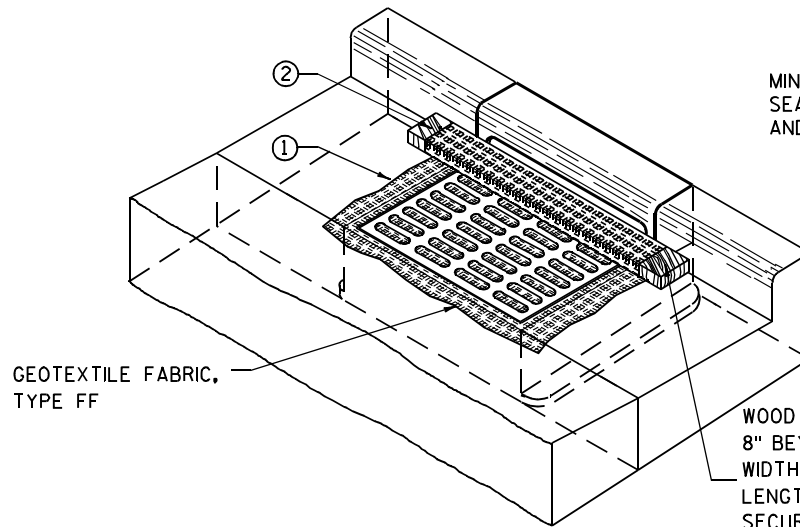
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

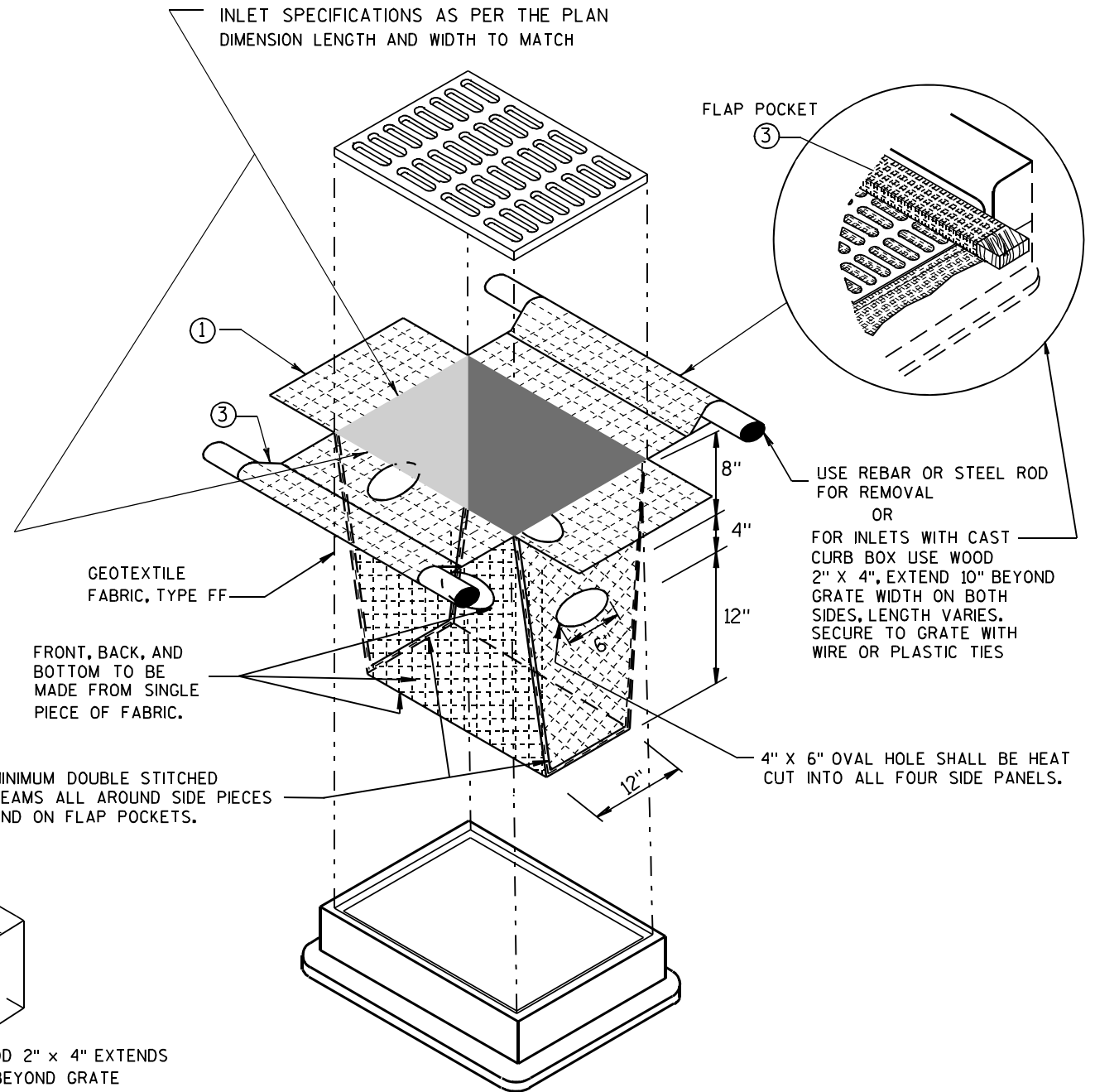
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

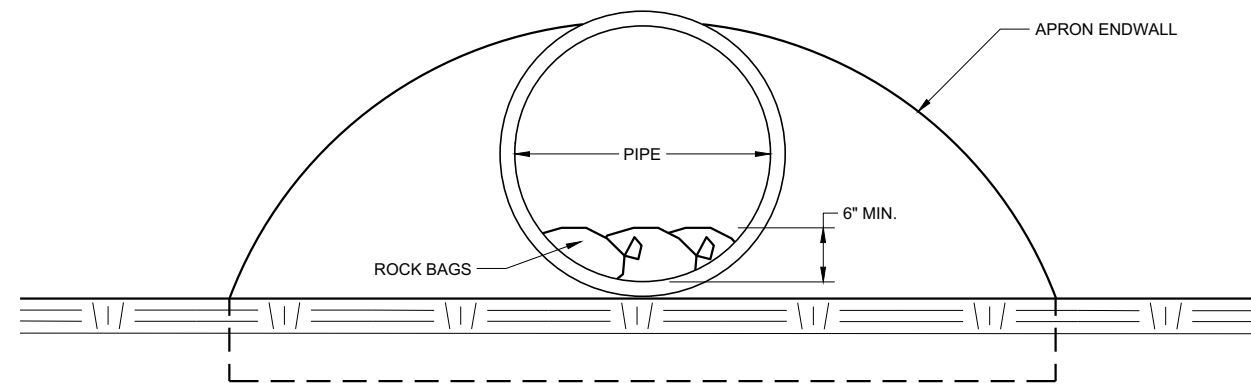
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



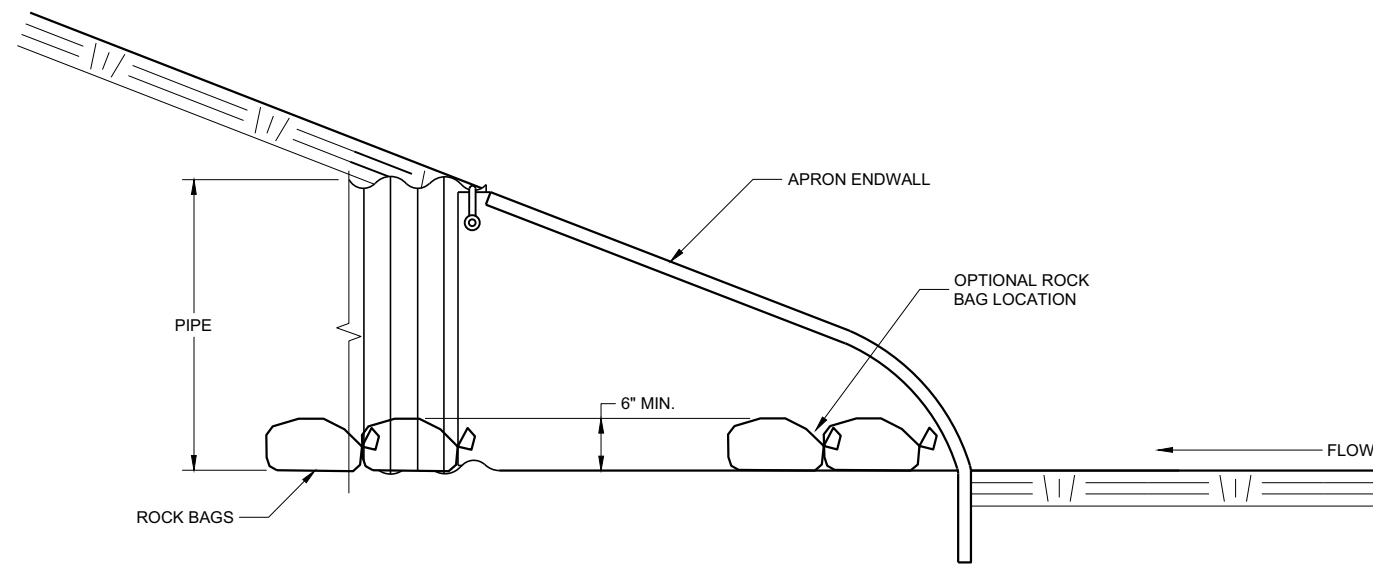
INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

INLET PROTECTION TYPE A, B, C, AND D	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/16/02 DATE	/S/ Beth Connestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



END VIEW



SIDE VIEW

CULVERT PIPE CHECK
(INSTALL ON INLET END ONLY)

6

6

SDD 08E15 - 01

SDD 08E15 - 01

CULVERT PIPE CHECK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGINEER
<small>FHWA</small>	

GENERAL NOTES

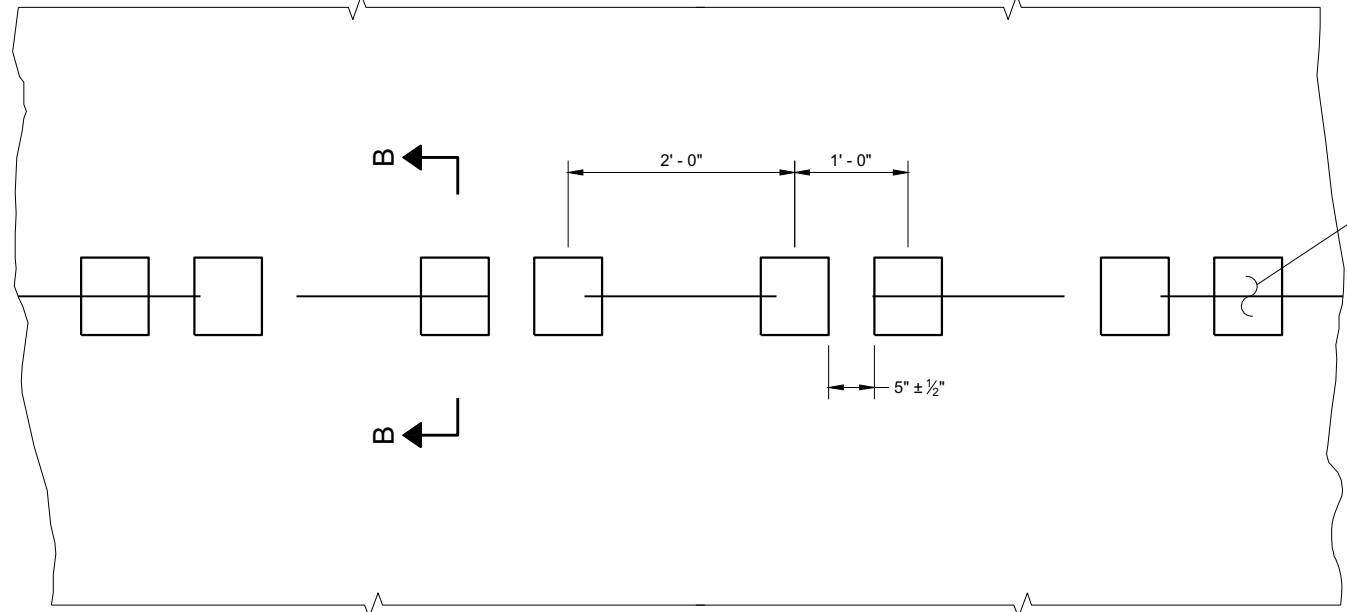
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

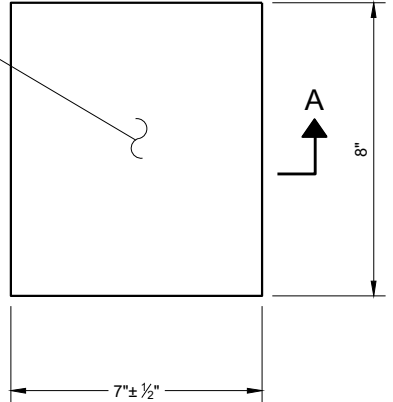
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

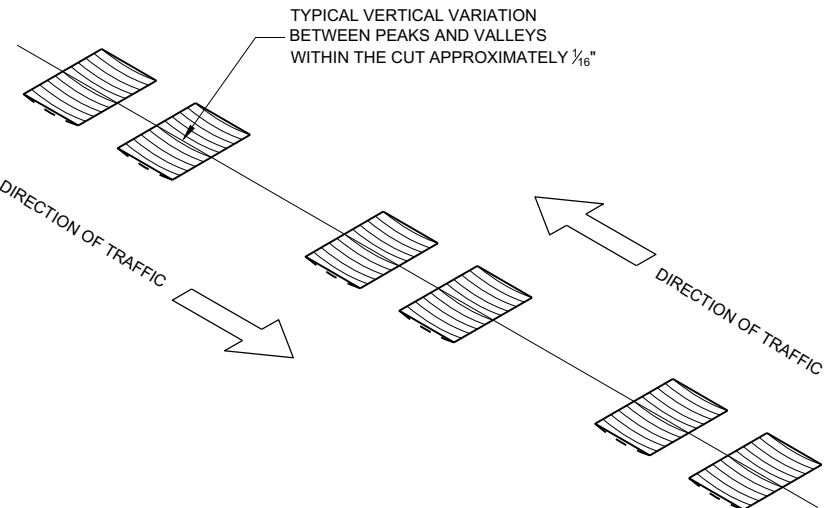
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



**PLAN VIEW
SHOULDER WITH GROOVES**

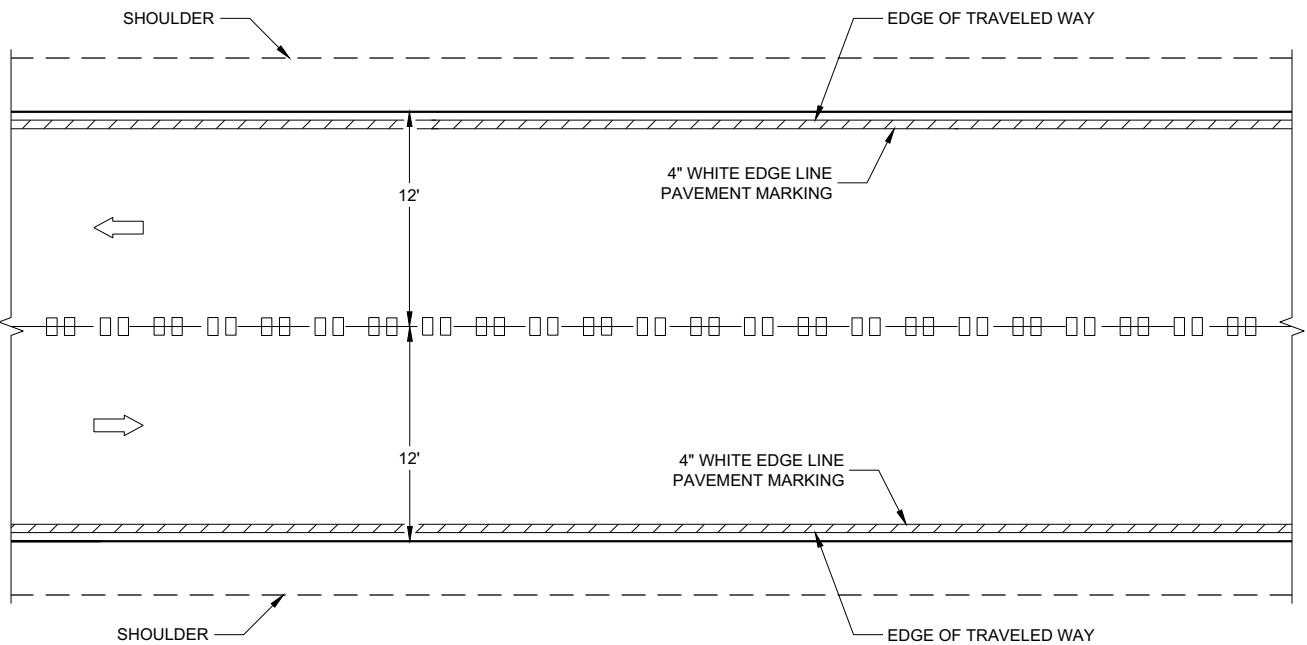


**PLAN VIEW
(SINGLE GROOVE)**

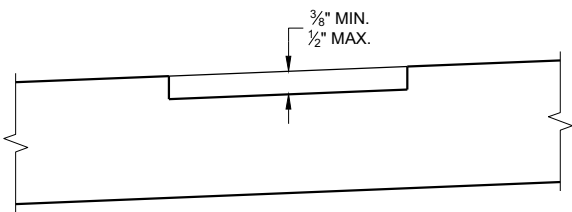


ISOMETRIC

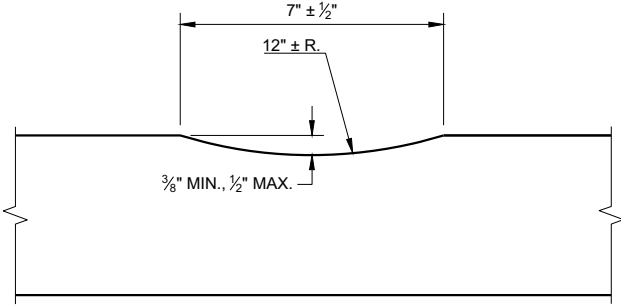
PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



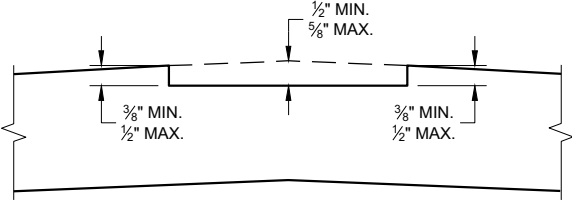
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



**SECTION B - B
SUPERELEVATED ROADWAY**



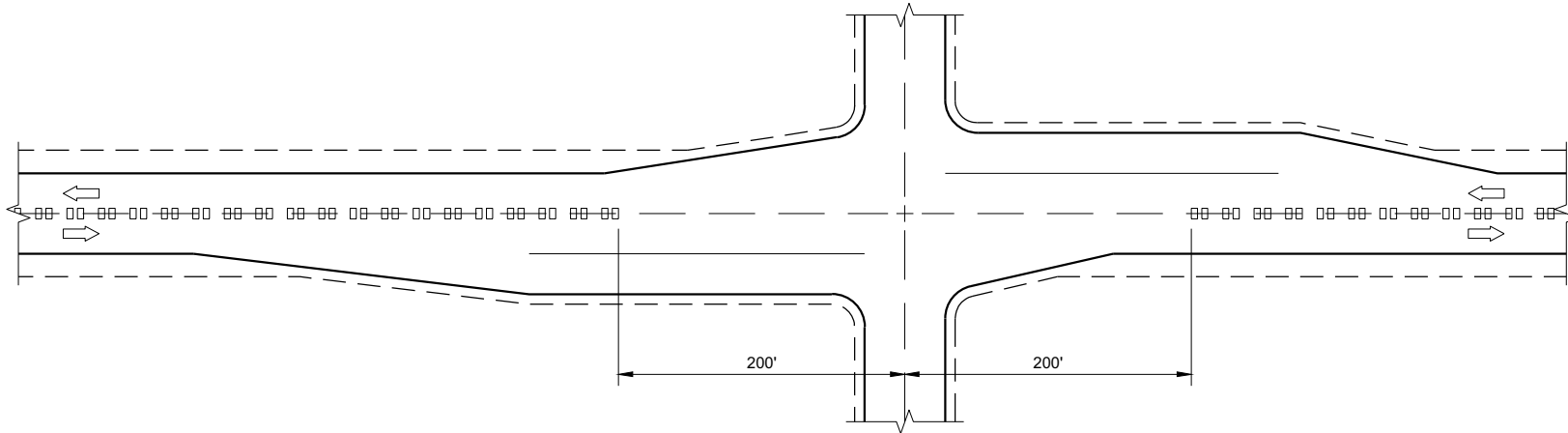
SECTION A - A



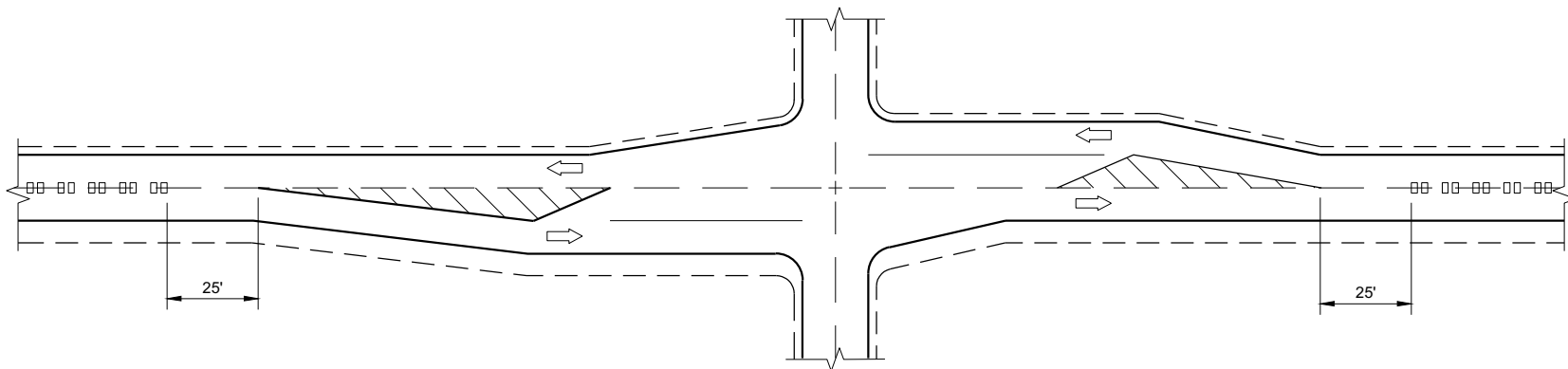
**SECTION B - B
CROWNED ROADWAY**

**2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING**

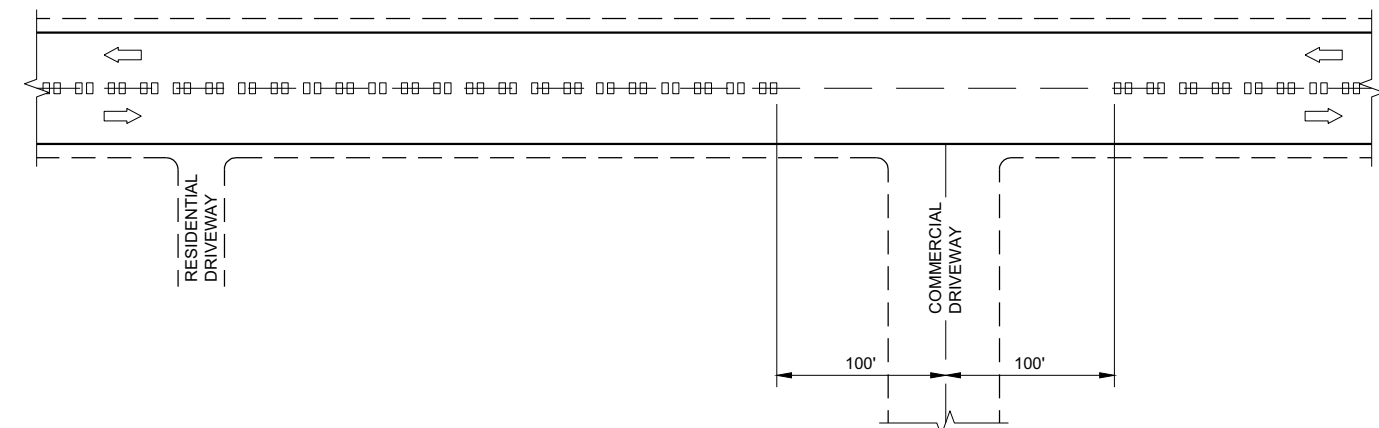
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTERLINE GROOVES AT INTERSECTIONS



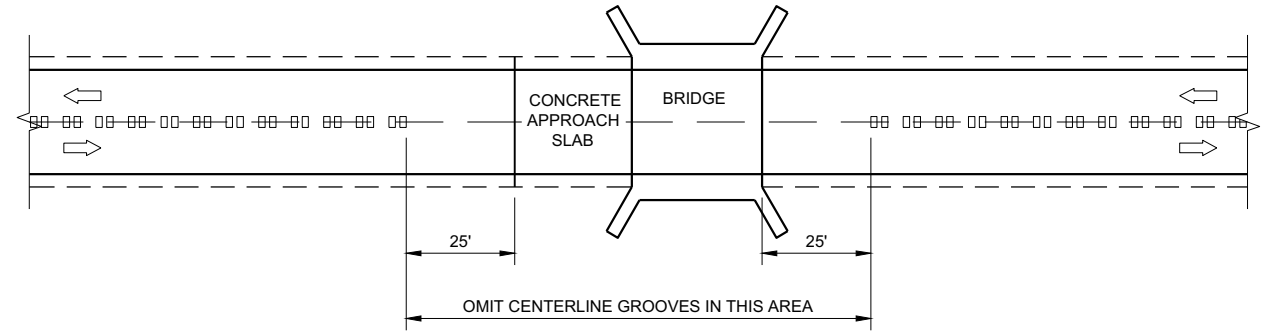
**CENTERLINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)**



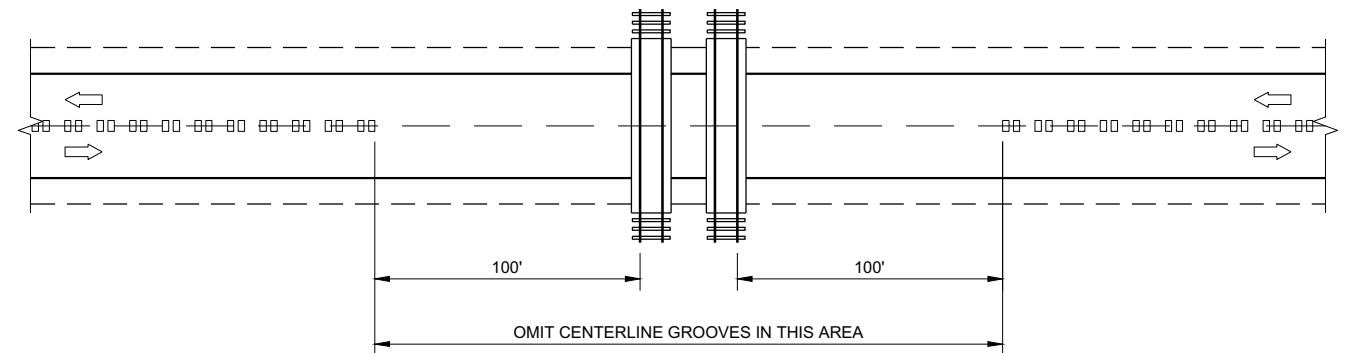
CENTERLINE GROOVES AT DRIVEWAYS^①

GENERAL NOTES

- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES

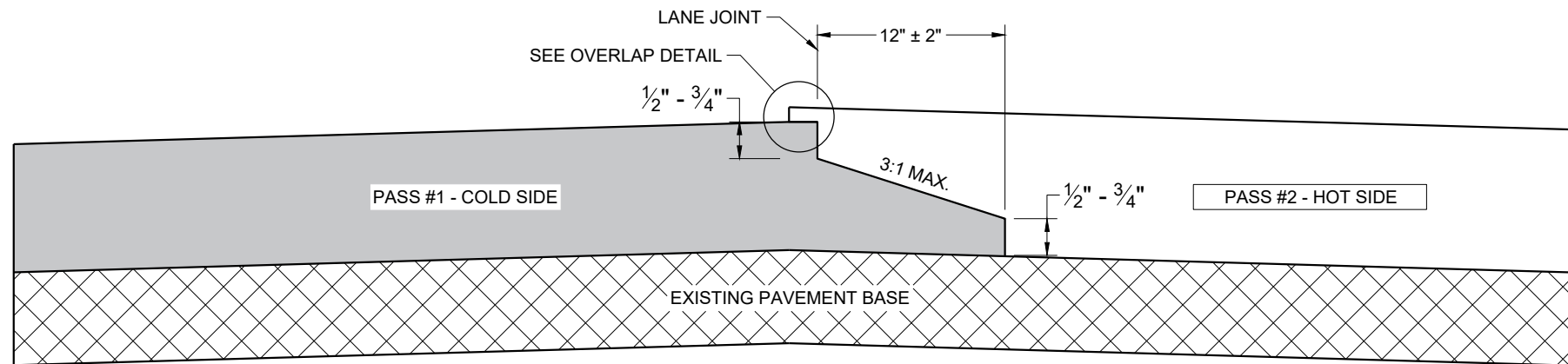


CENTERLINE GROOVES AT RAILROADS

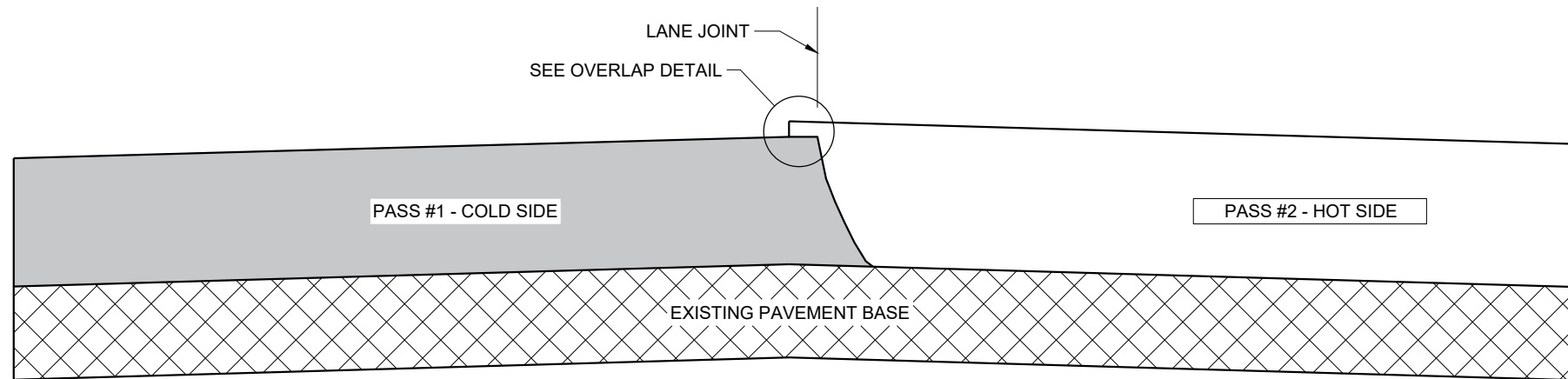
6

6

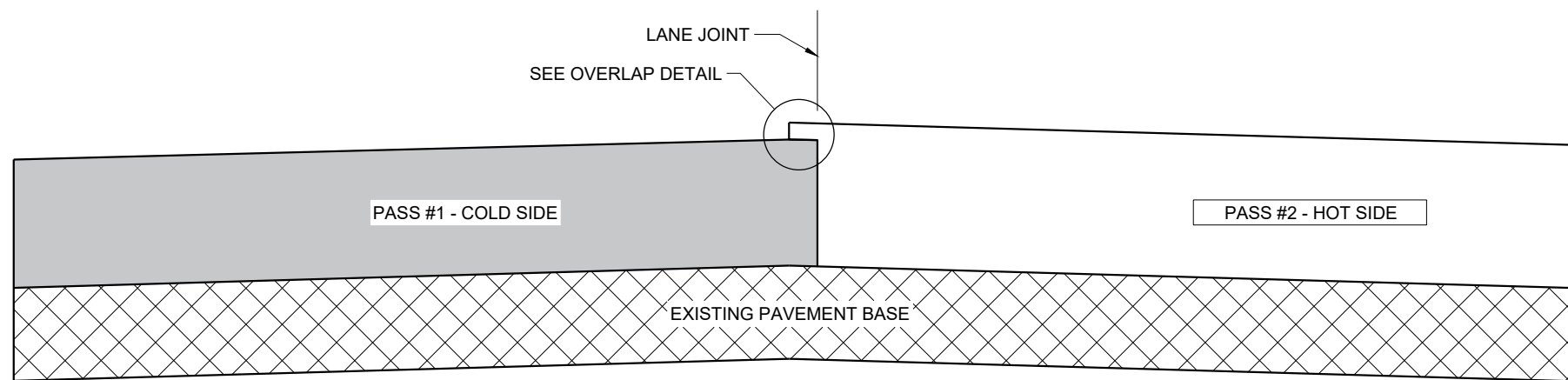
2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 7/2018	/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



**TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT**



**TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT**



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

GENERAL NOTES

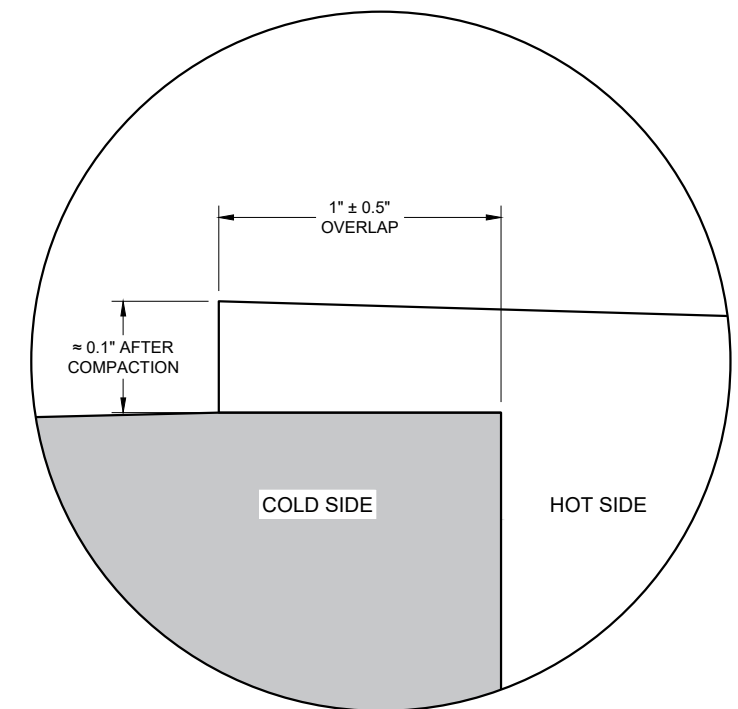
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

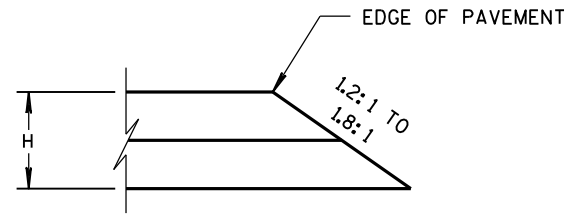
SDD 13C19 - 03

SDD 13C19 - 03

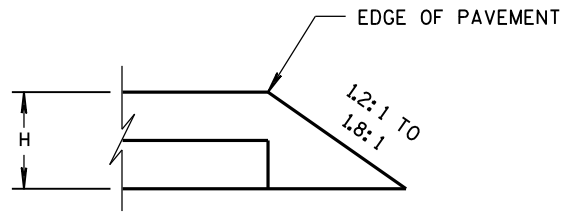
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

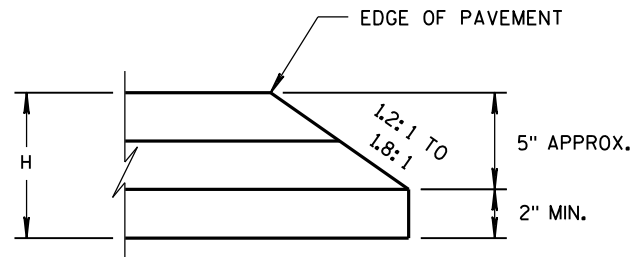
APPROVED
November 2020 DATE /S/ Steven Hefel
HMA PAVEMENT ENGINEER
FHWA



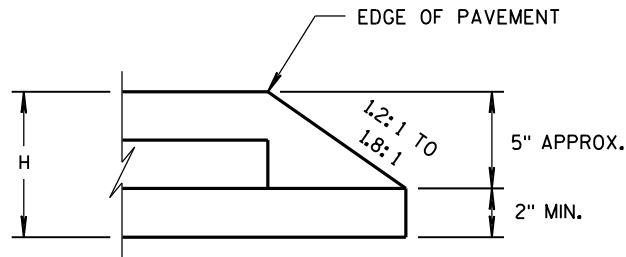
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

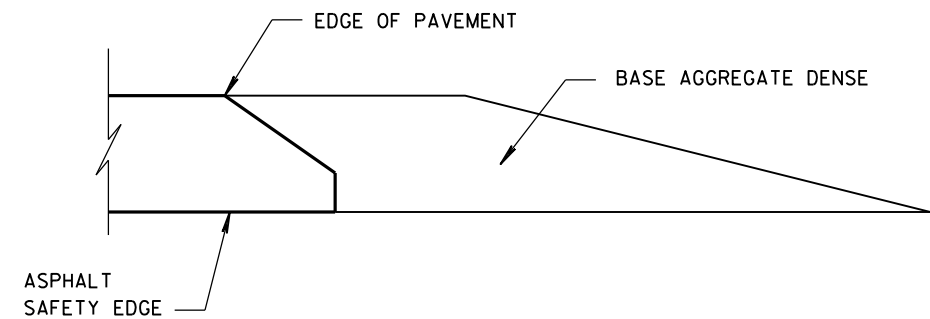


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

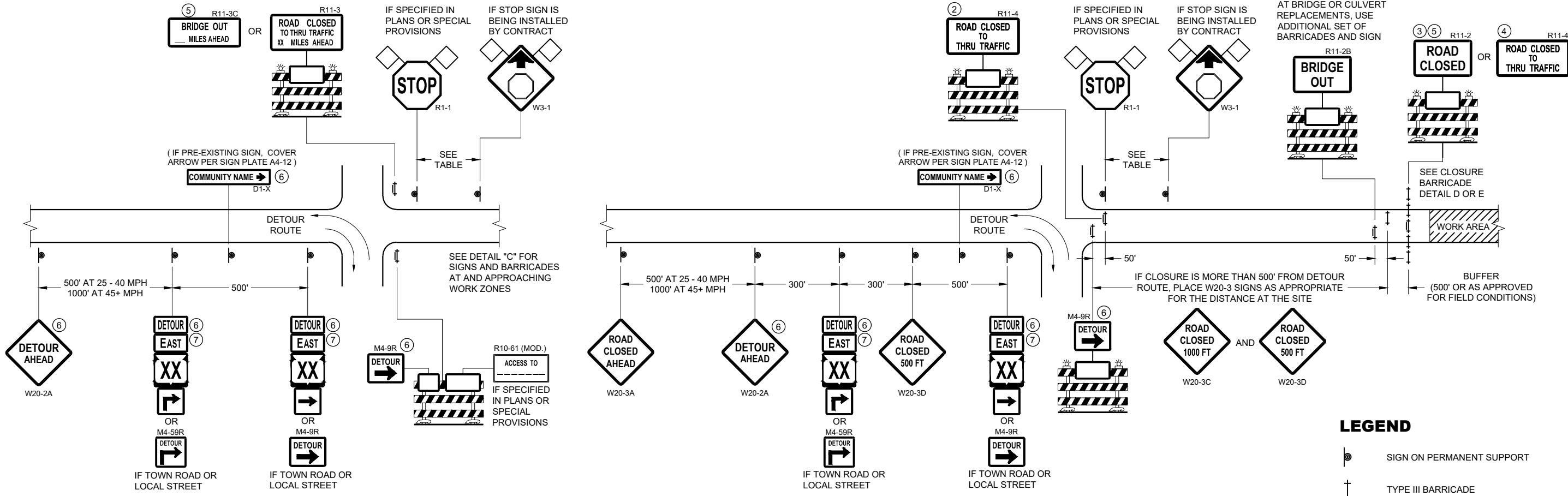
6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE _{SM}	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE	/s/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



**DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

**DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR**

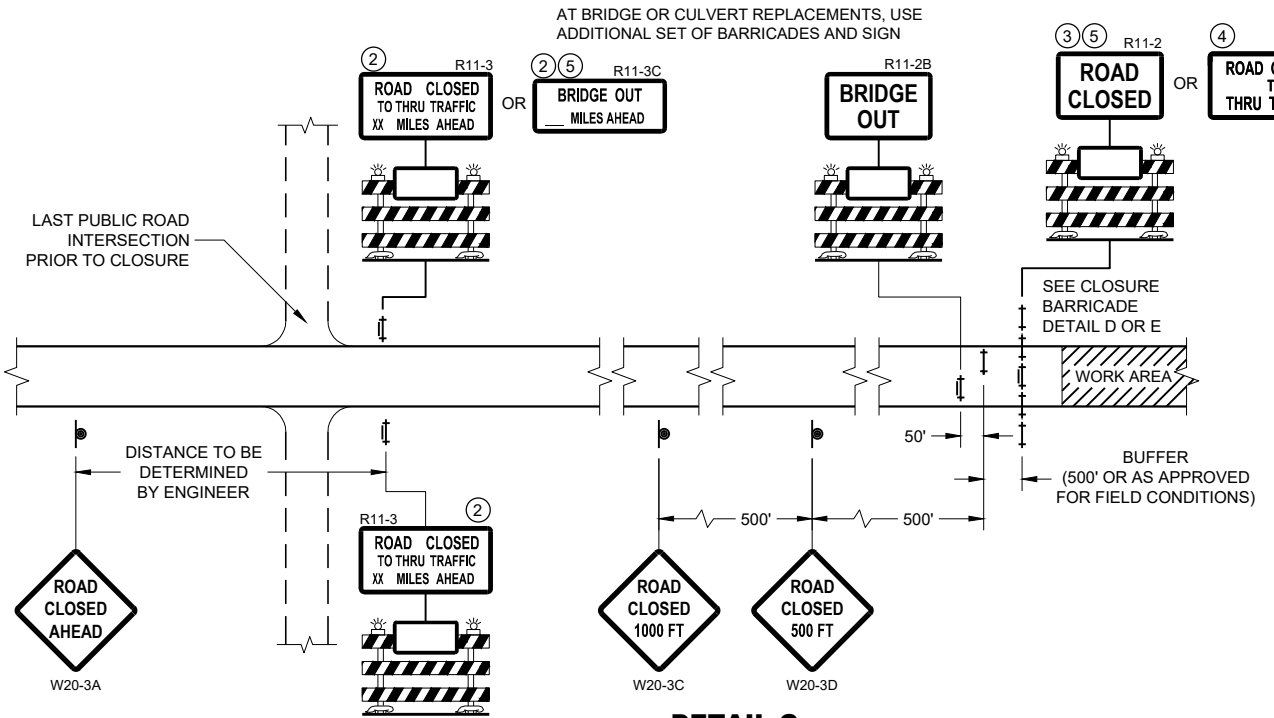
WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1



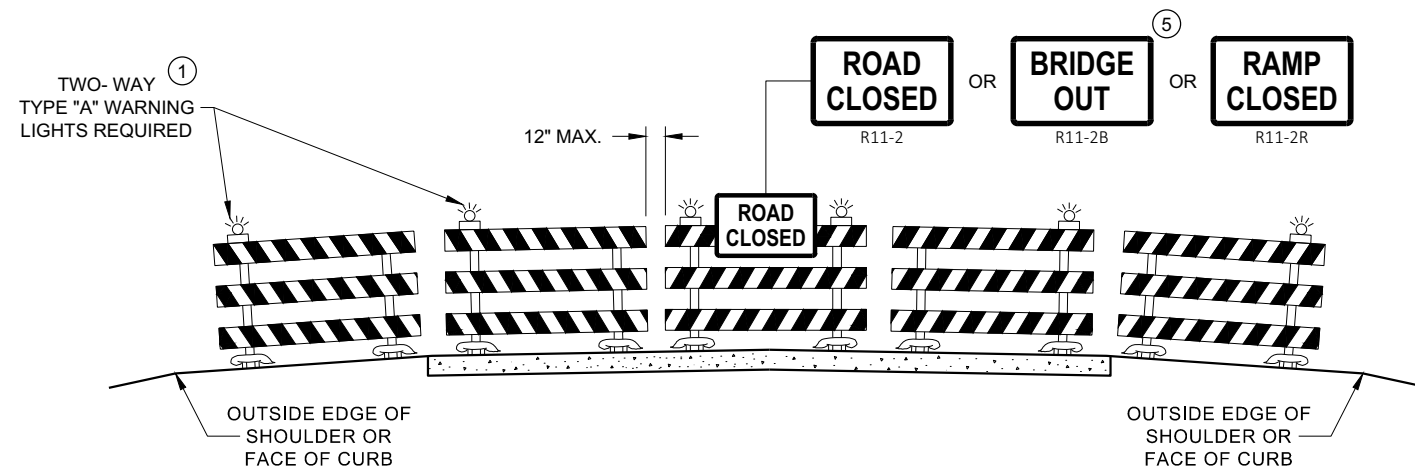
**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

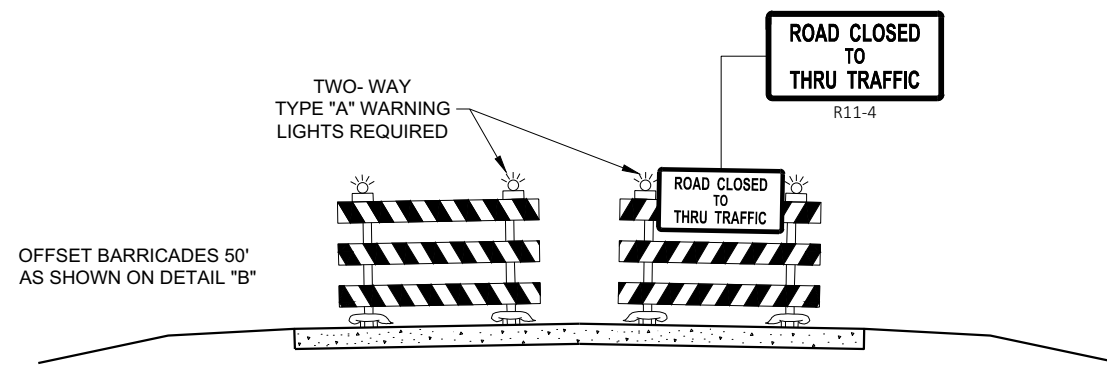
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE DATE WORK ZONE ENGINEER
FHWA



**DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW**



**DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

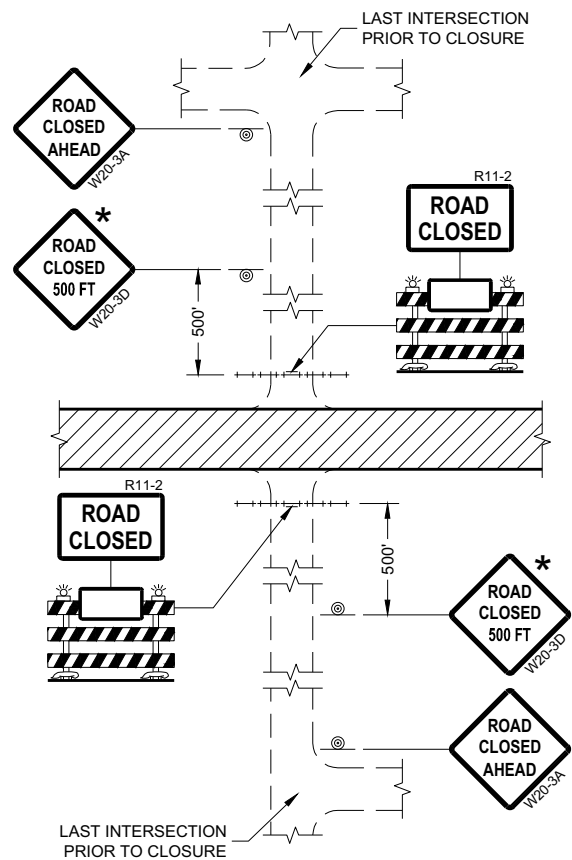
- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

**BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES**

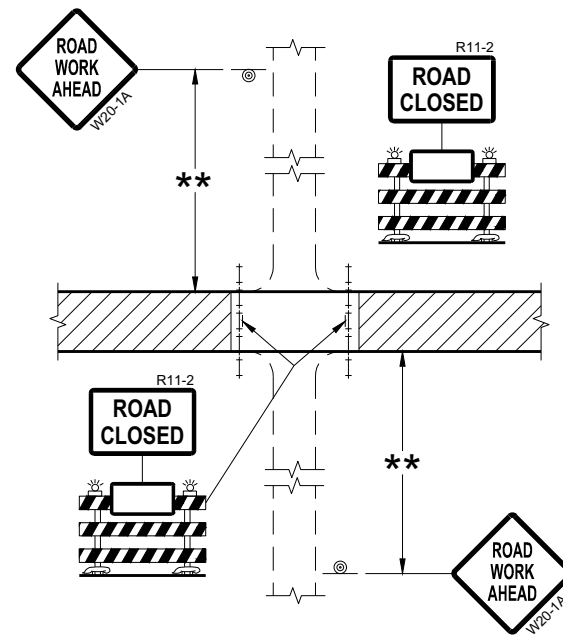
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

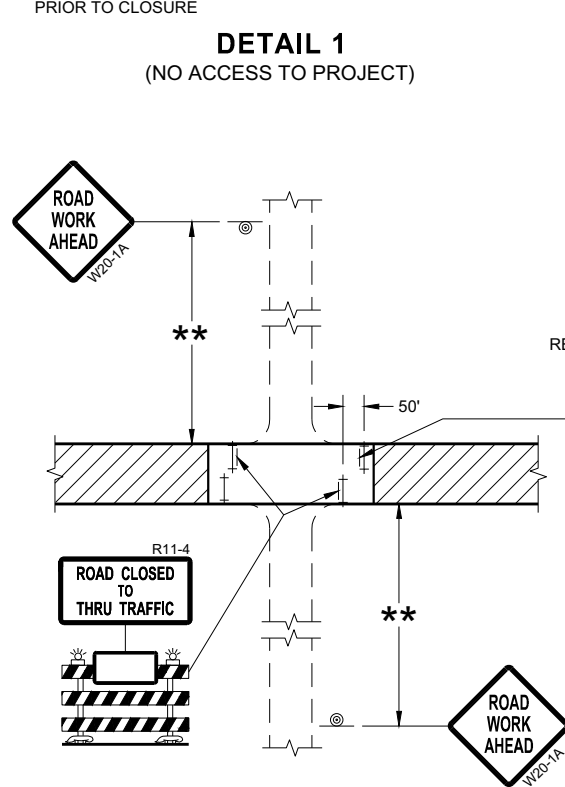
FHWA



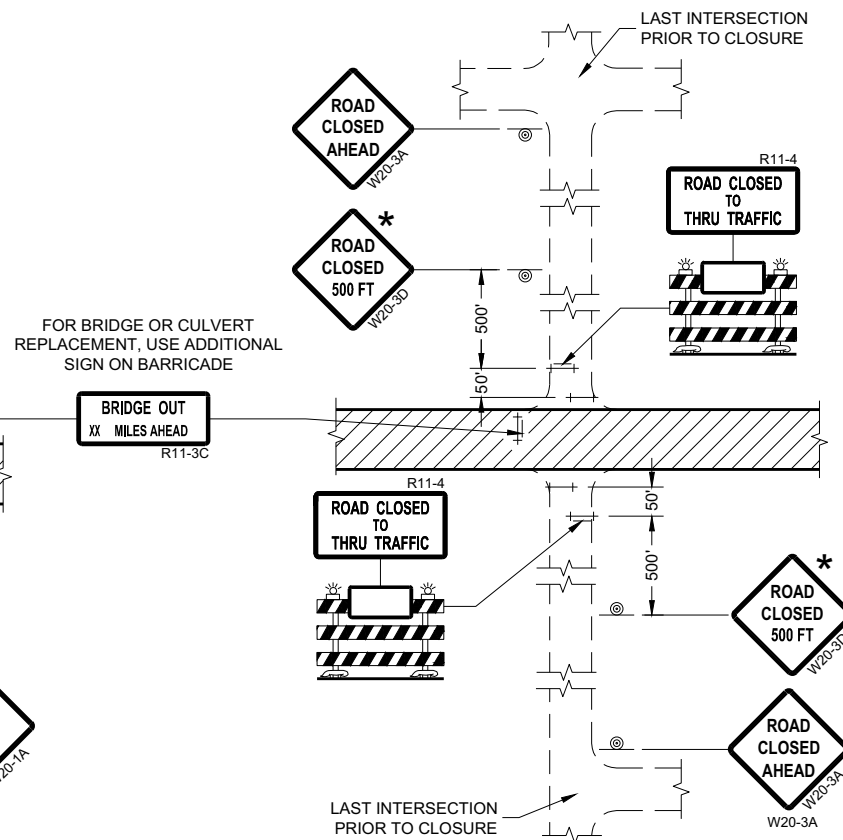
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

- * OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE
- ⊥ TYPE III BARRICADE WITH ATTACHED SIGN
- ⚡ TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

**BARRICADES AND SIGNS
FOR
SIDEROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION




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

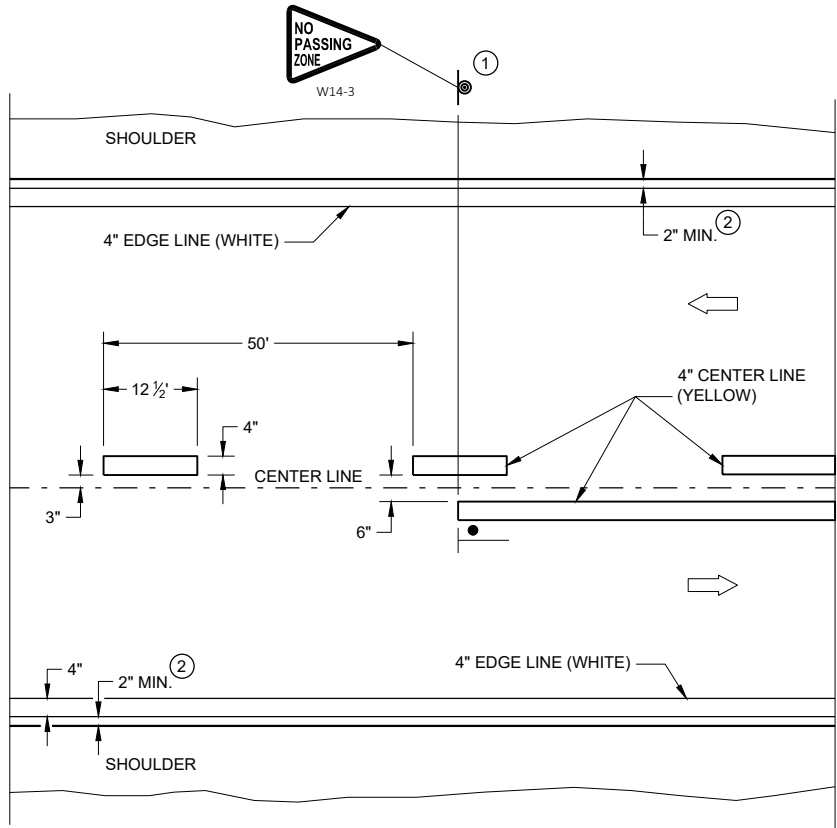
GENERAL NOTES

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

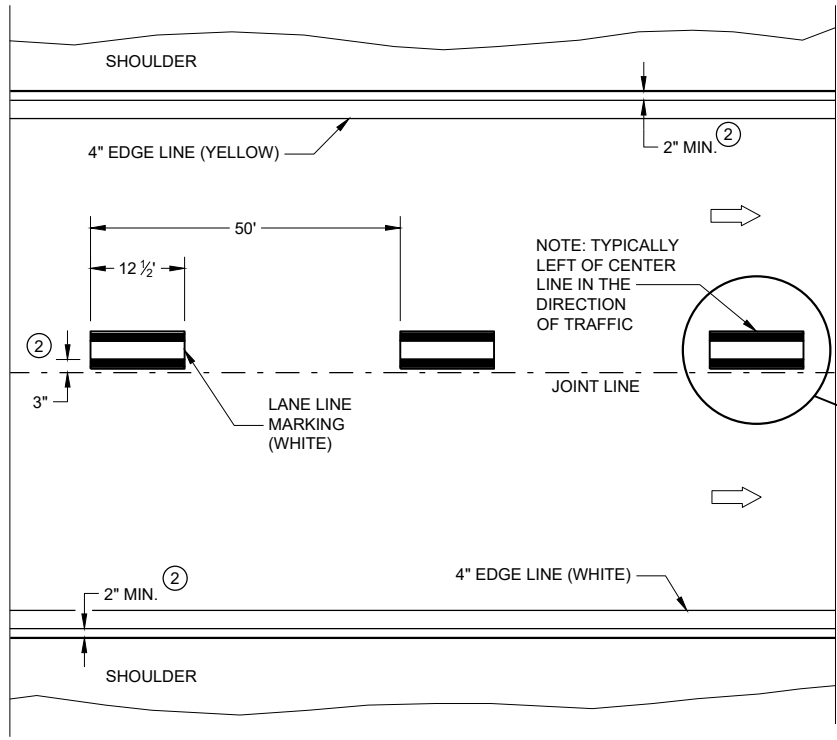
- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

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

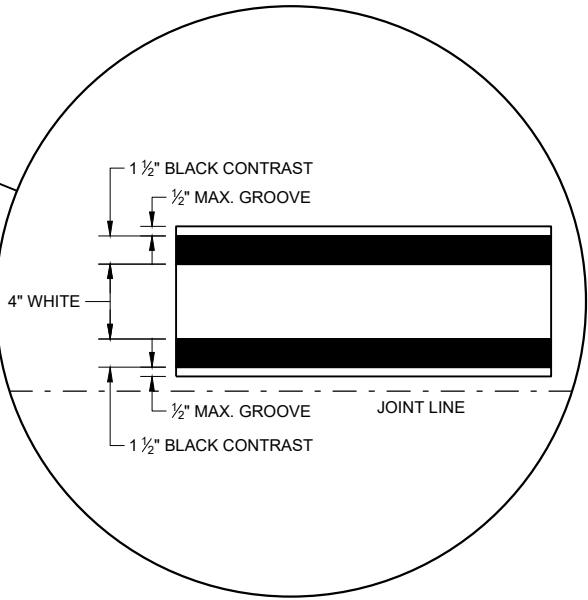


TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING





PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2022 /S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING ENGINEER

FHWA

LEGEND

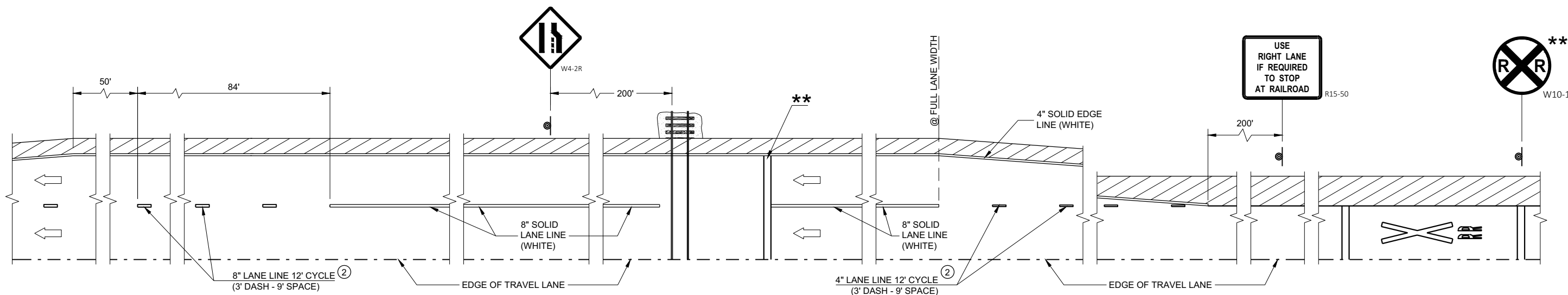
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

- ① INSTALLED FOR EXPRESSWAYS
- ② 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

** SEE SDD 15C09-a, "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSING" FOR LOCATION OF ADVANCE MARKINGS.



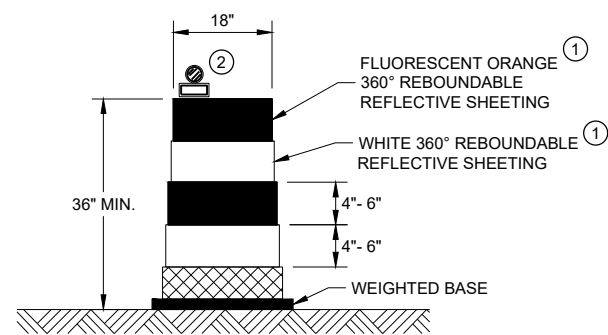
DETAIL FOR TRUCK STOPPING LANE PAVEMENT MARKINGS

TRUCK STOPPING LANE PAVEMENT MARKINGS

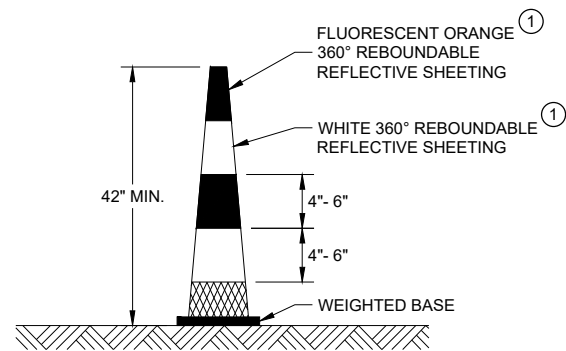
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER

FHWA

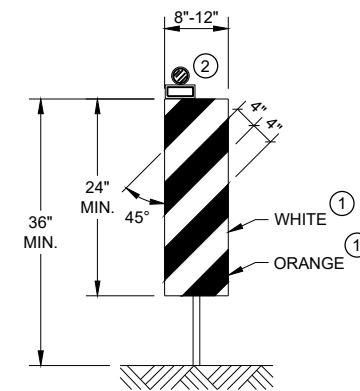


DRUM



42" CONE

DO NOT USE IN TAPERS
 1/2 SPACING OF DRUMS

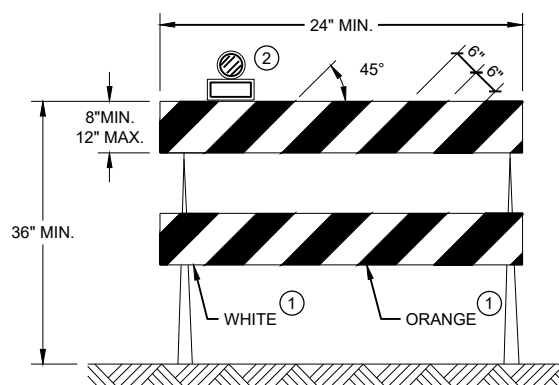


VERTICAL PANEL

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

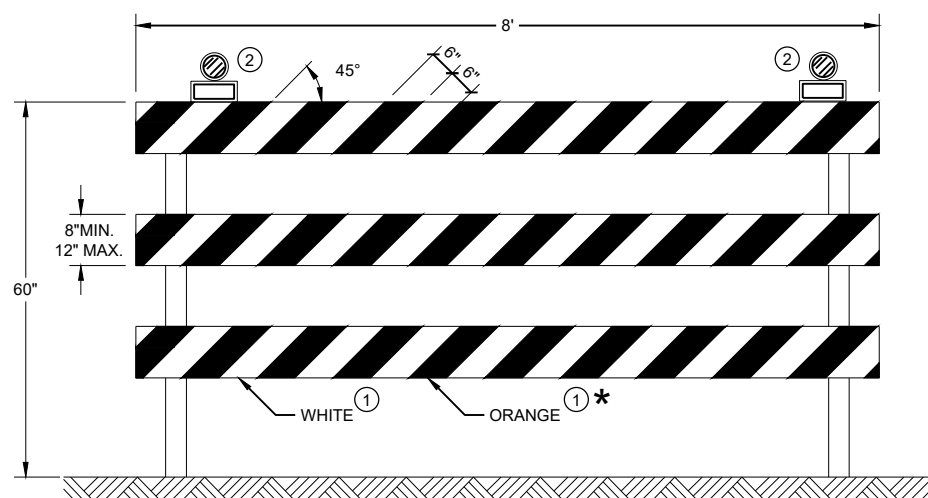
GENERAL NOTES

- 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.

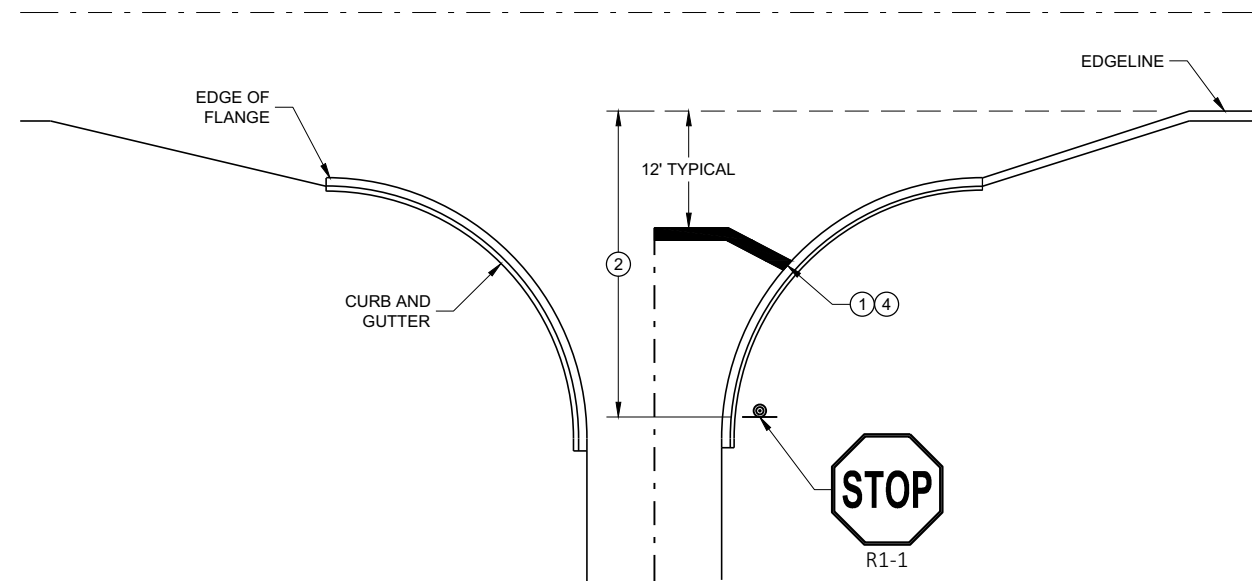
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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

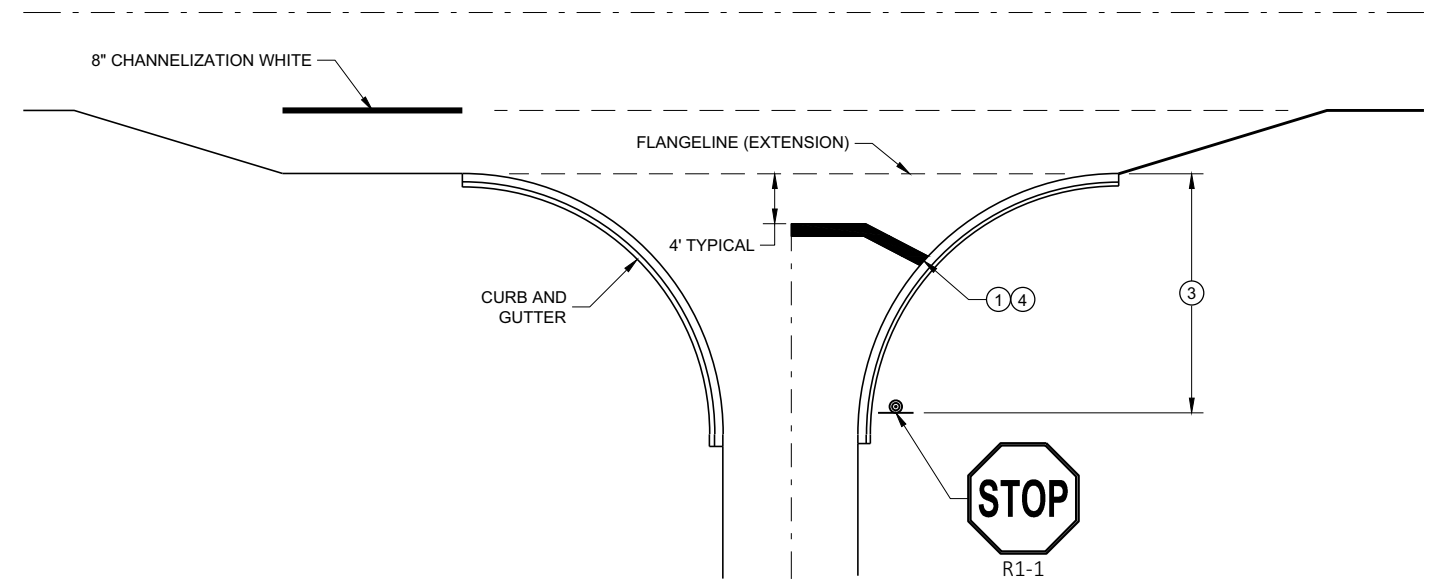
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

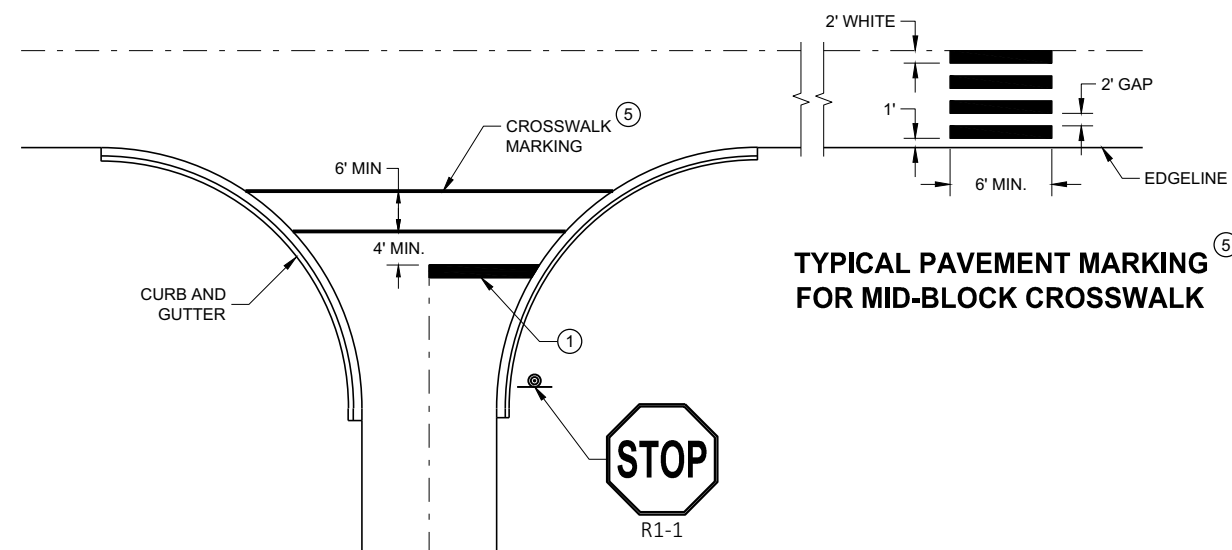
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



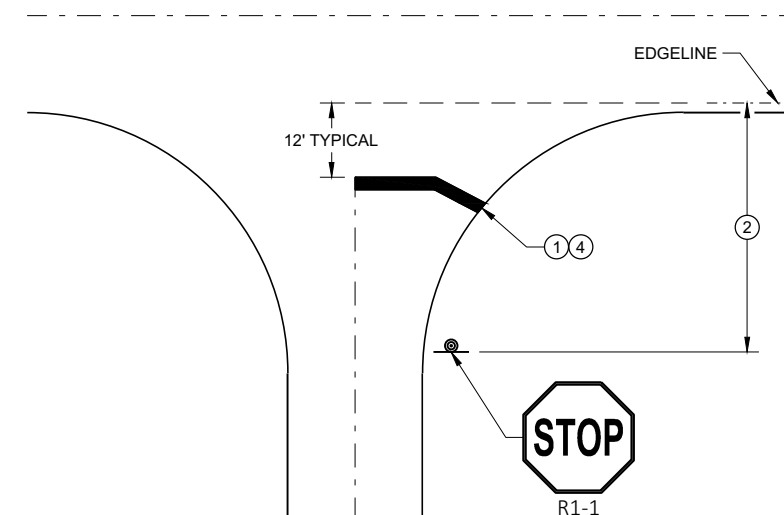
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



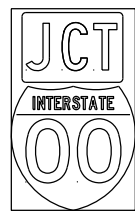
TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

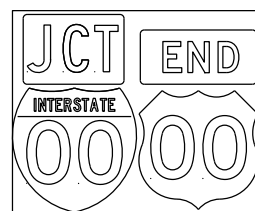
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA

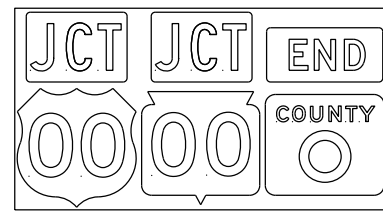
TYPICAL ASSEMBLIES



J1-1



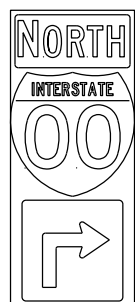
J1-2



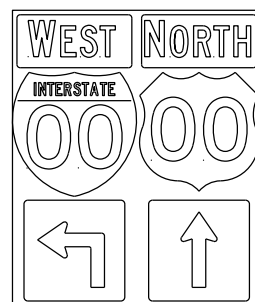
J1-3



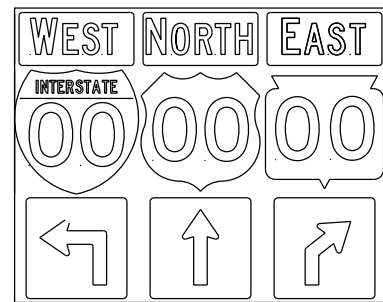
JR1-1



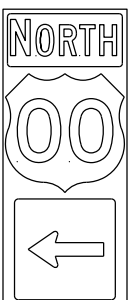
J2-1



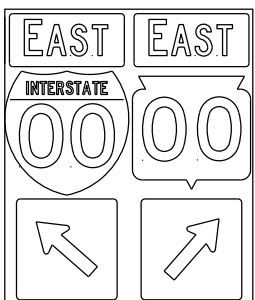
J2-2



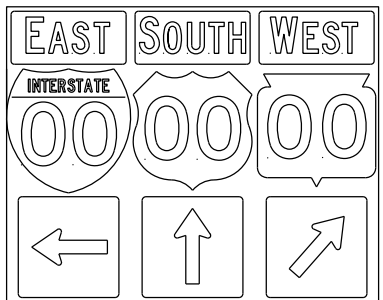
J2-3



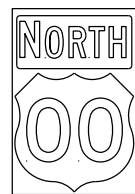
J3-1



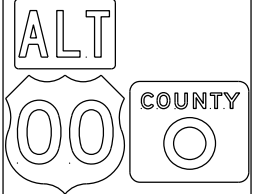
J3-2



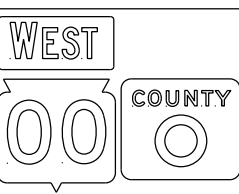
J3-3



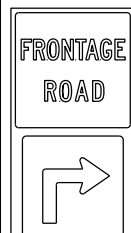
J4-1



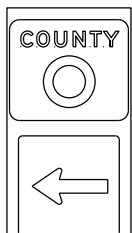
J4-2



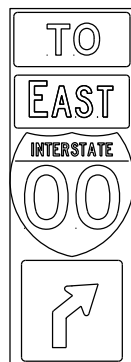
J4-2



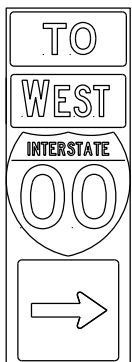
J12-1



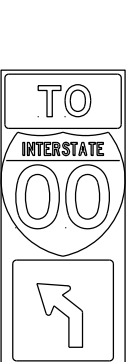
J13-1



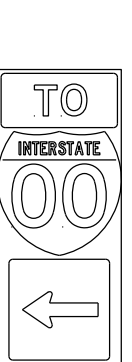
J32-1



J33-1



J22-1



J23-1



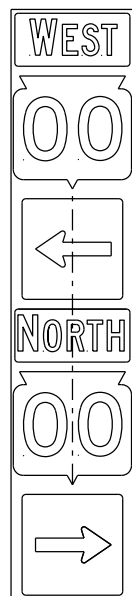
JR13-1



JR23-1

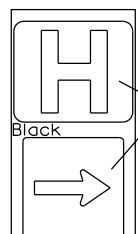


JR99-1



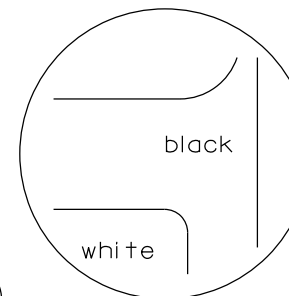
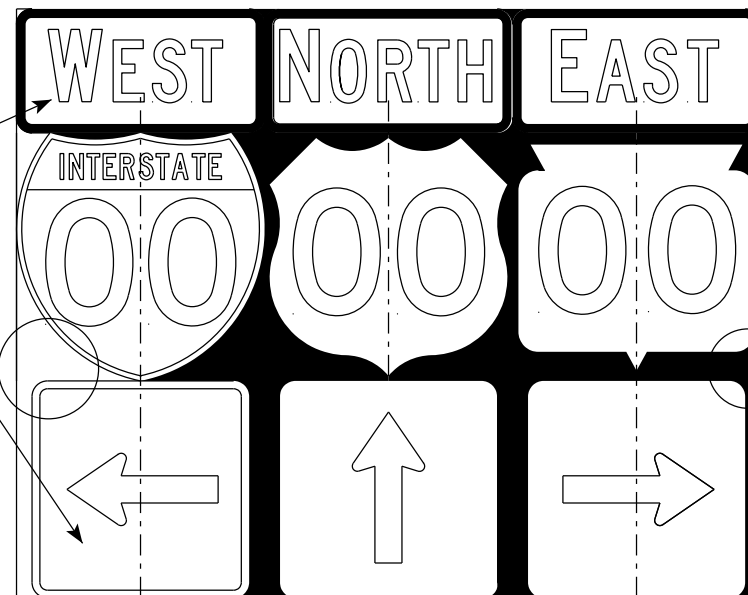
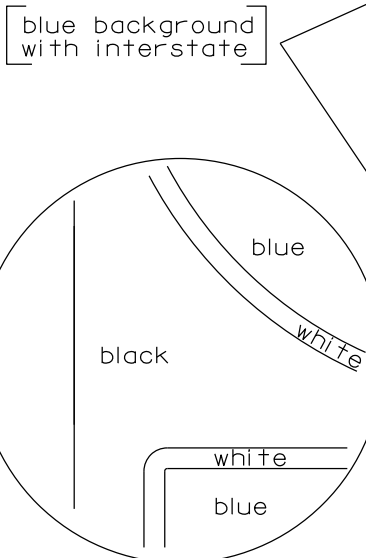
JV

(Typical Vertical J-Assembly See Note 10 and 11)



JH-1

Blue Background



black background

NOTES

- Signs are Type II - Type H Reflective
- Color:
 - Background - Black Non-reflective
 - Message - see Note 5
- Message Series - See Note 5
- Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
- The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- Certain marker heads require the component pieces to be the same color. As an example, all the components used with an MI-1 Interstate marker shall be blue.
- Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
- Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- All Vertical J Assemblies are given a Sign Code of JV
- For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 3/18/21

PLATE NO. A2-1S.9

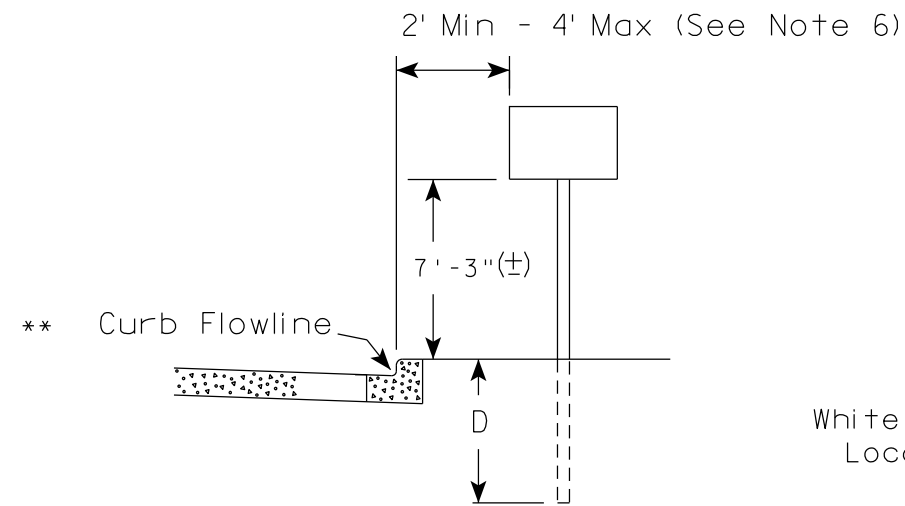
PROJECT NO:

SHEET NO:

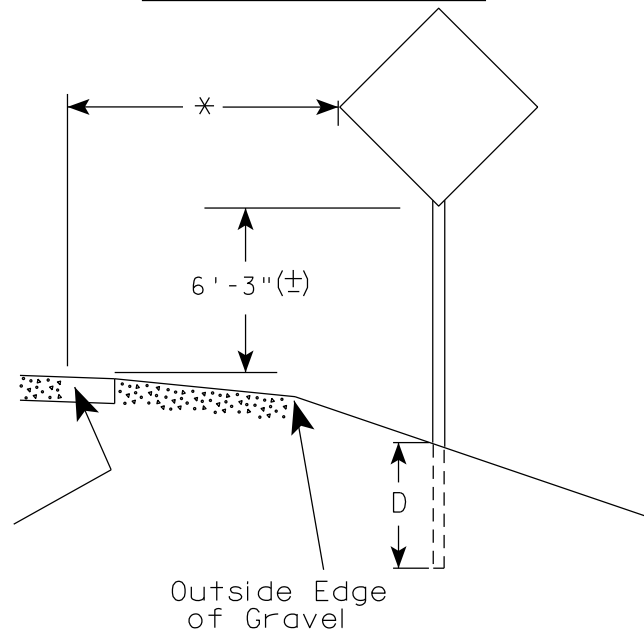
E

URBAN AREA

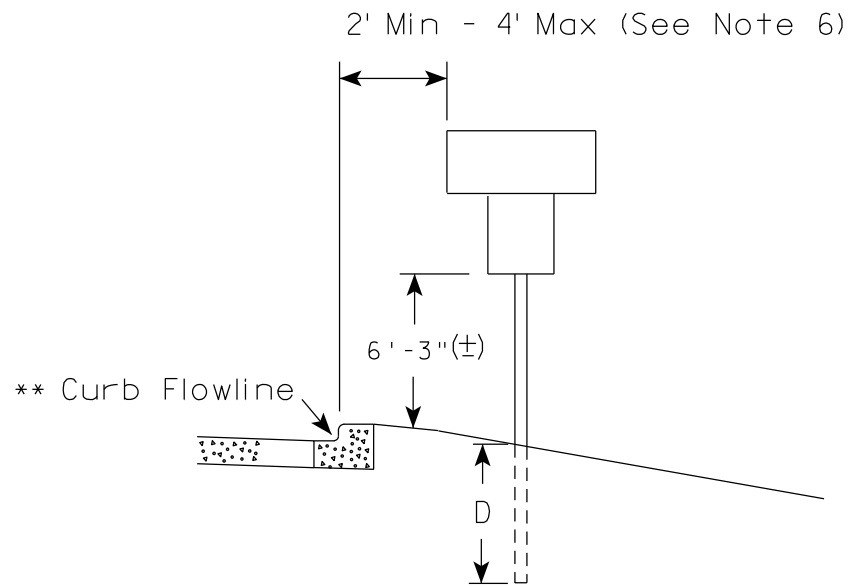
RURAL AREA (See Note 2)



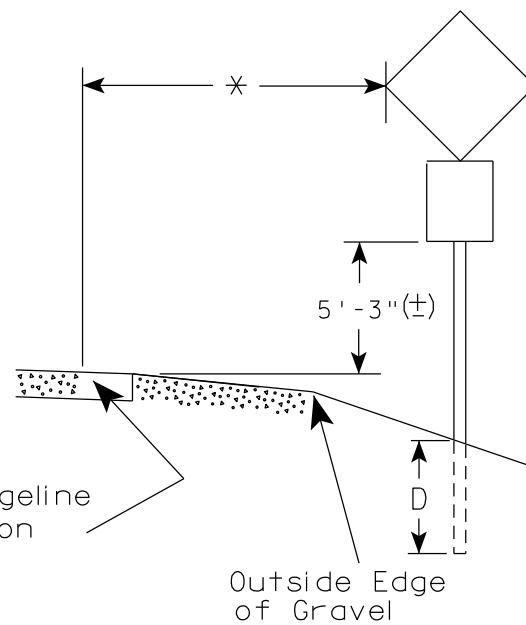
White Edgeline Location



Outside Edge of Gravel



White Edgeline Location



Outside Edge of Gravel

POST EMBEDMENT DEPTH

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

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.

* * 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.

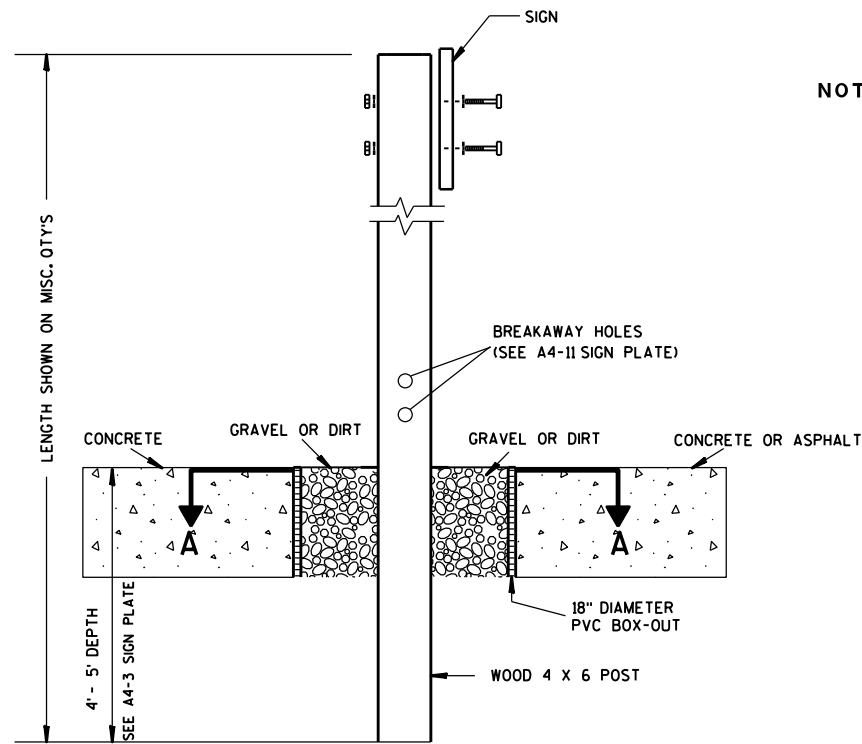
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

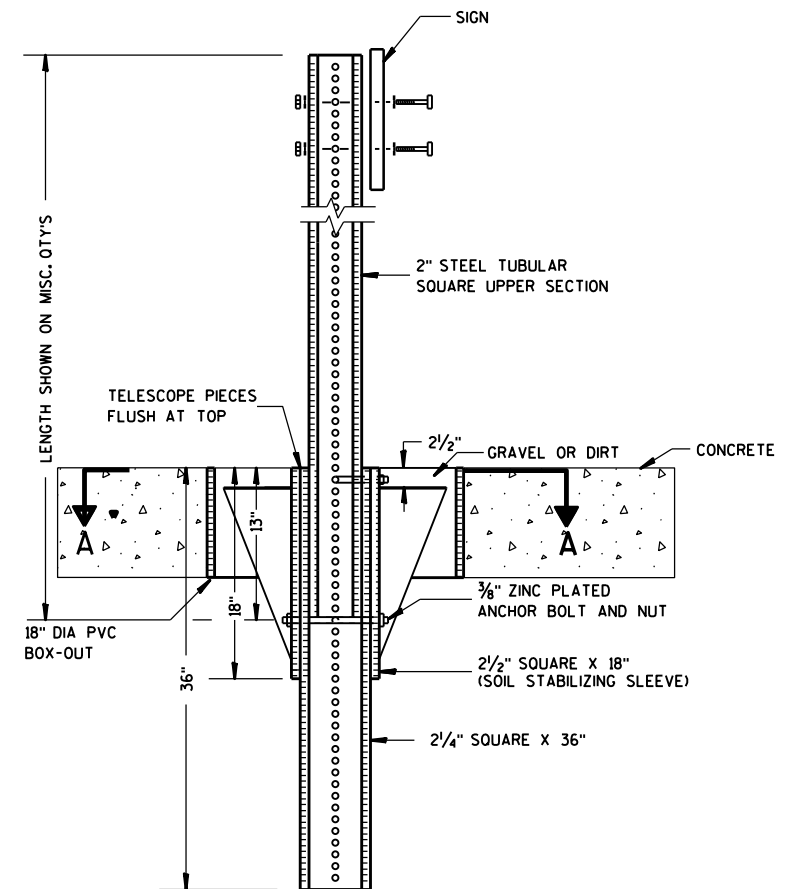
DATE 5/13/2020 PLATE NO. A4-3.22



ELEVATION VIEW

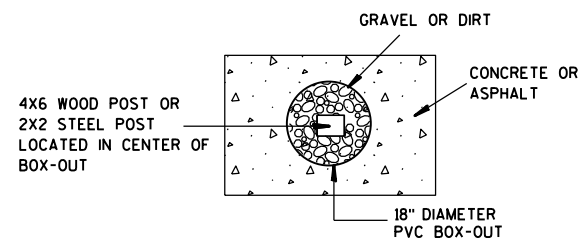
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

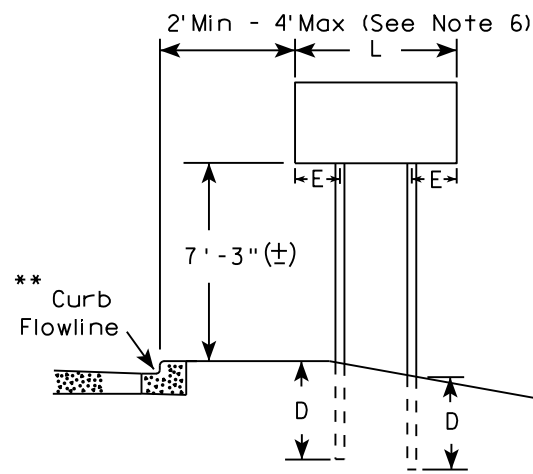
FOR NEW CONCRETE/ ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B	
<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>

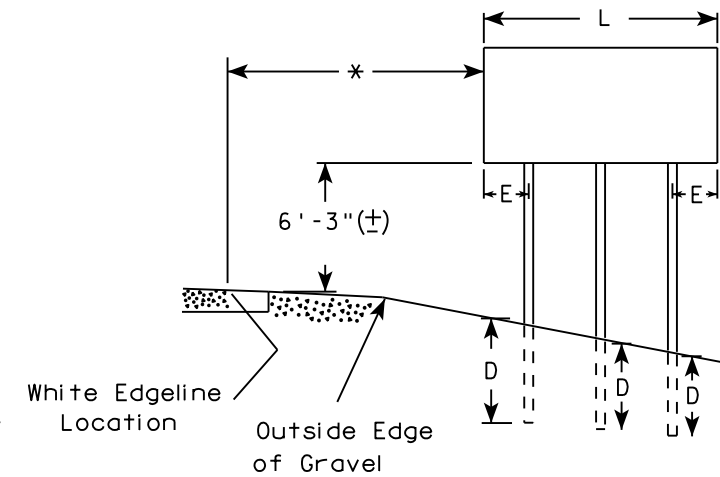
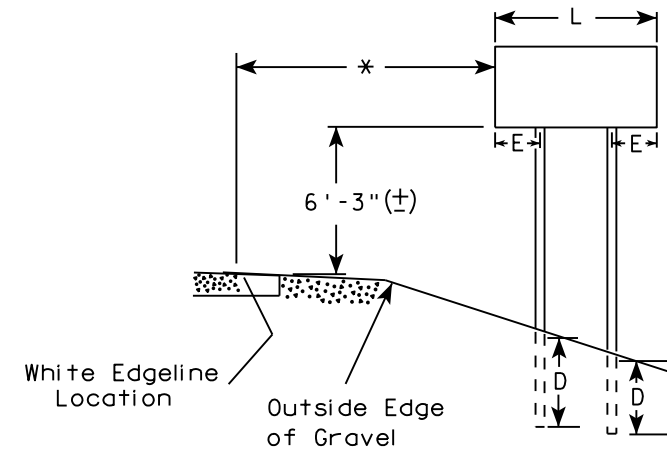
GENERAL NOTES

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" (±).

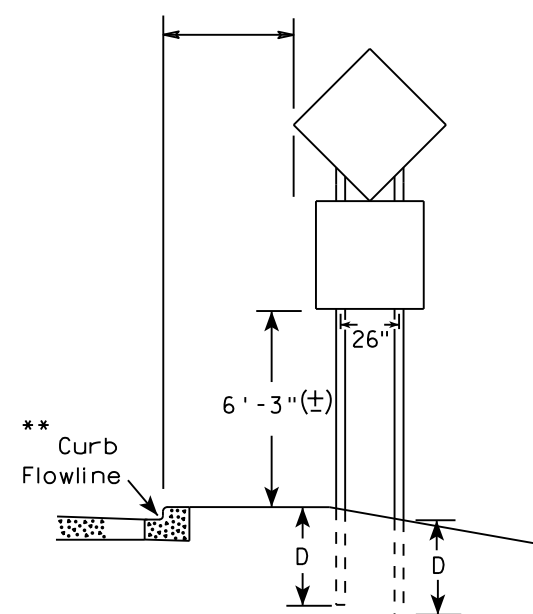
URBAN AREA



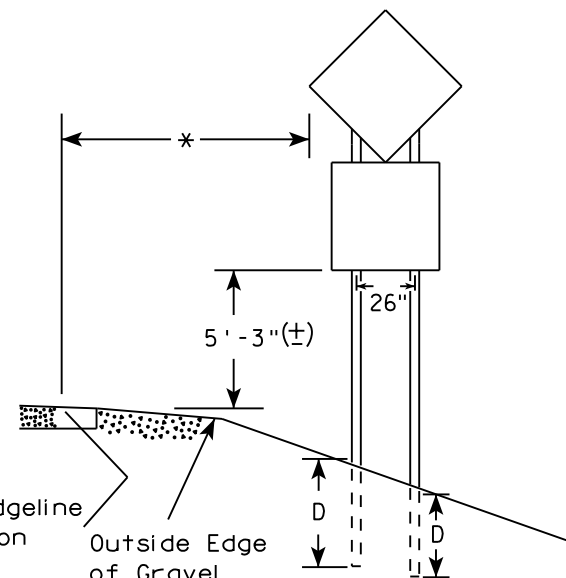
RURAL AREA (See Note 3)



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

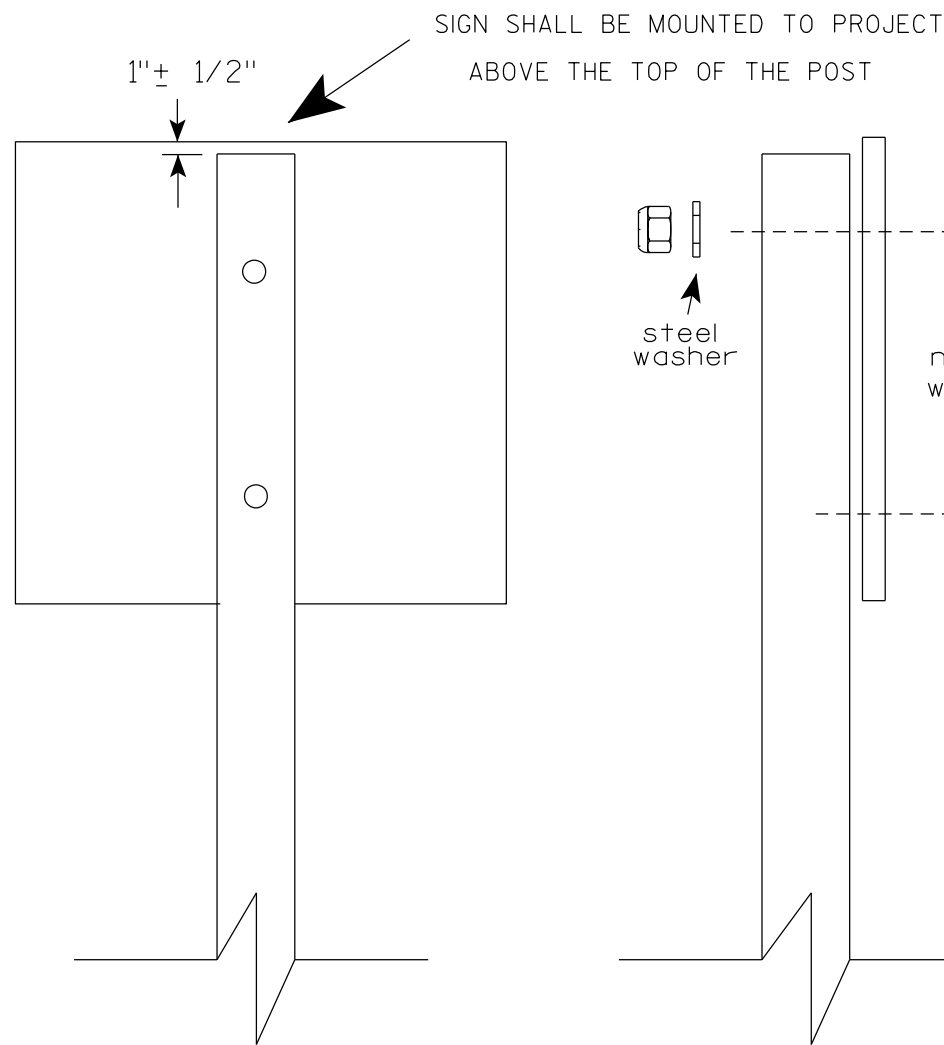
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

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



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

- Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- 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.

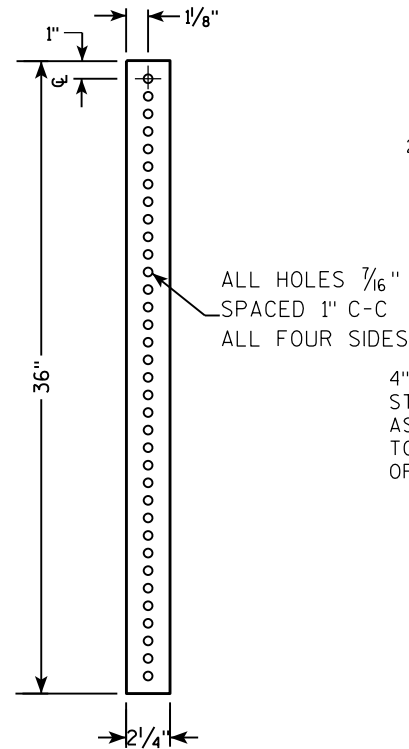
- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length 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.

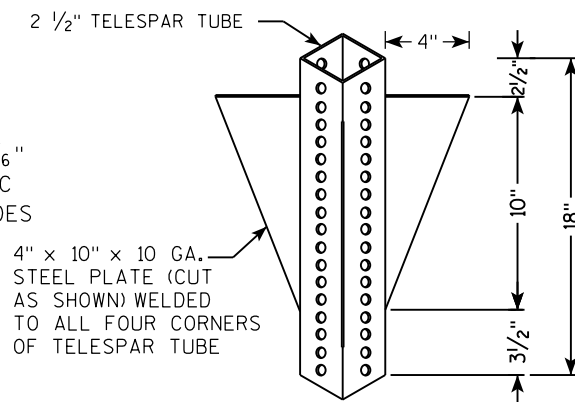
ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R Rauch</i> For State Traffic Engineer
DATE 4/1/2020	PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM**

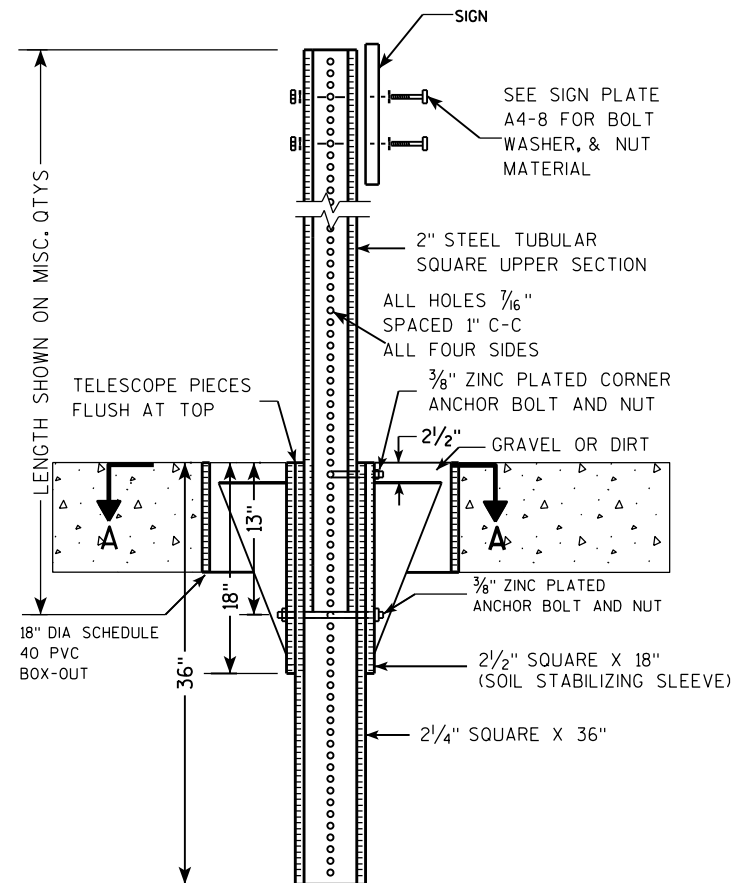
**2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**



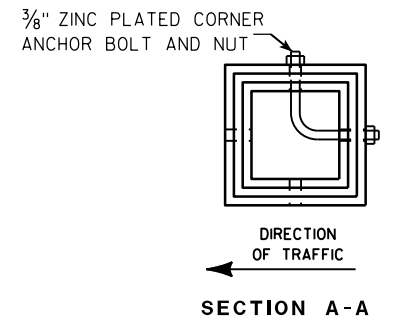
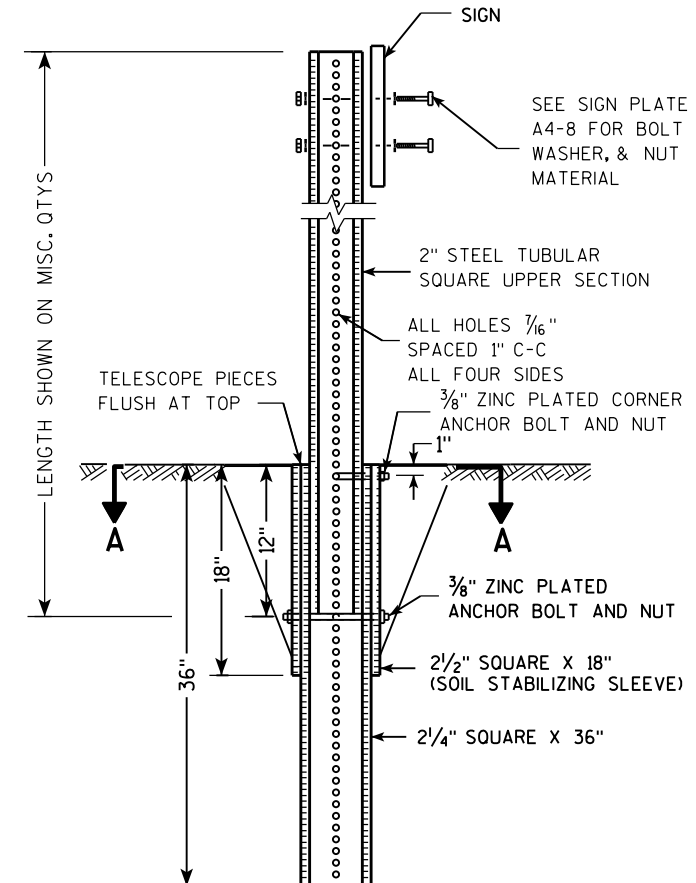
**2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH**



**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

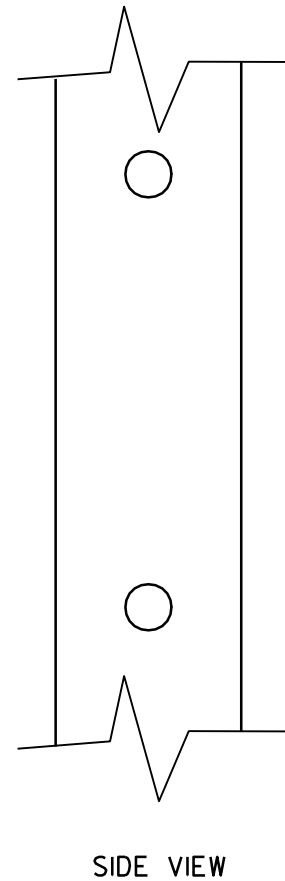
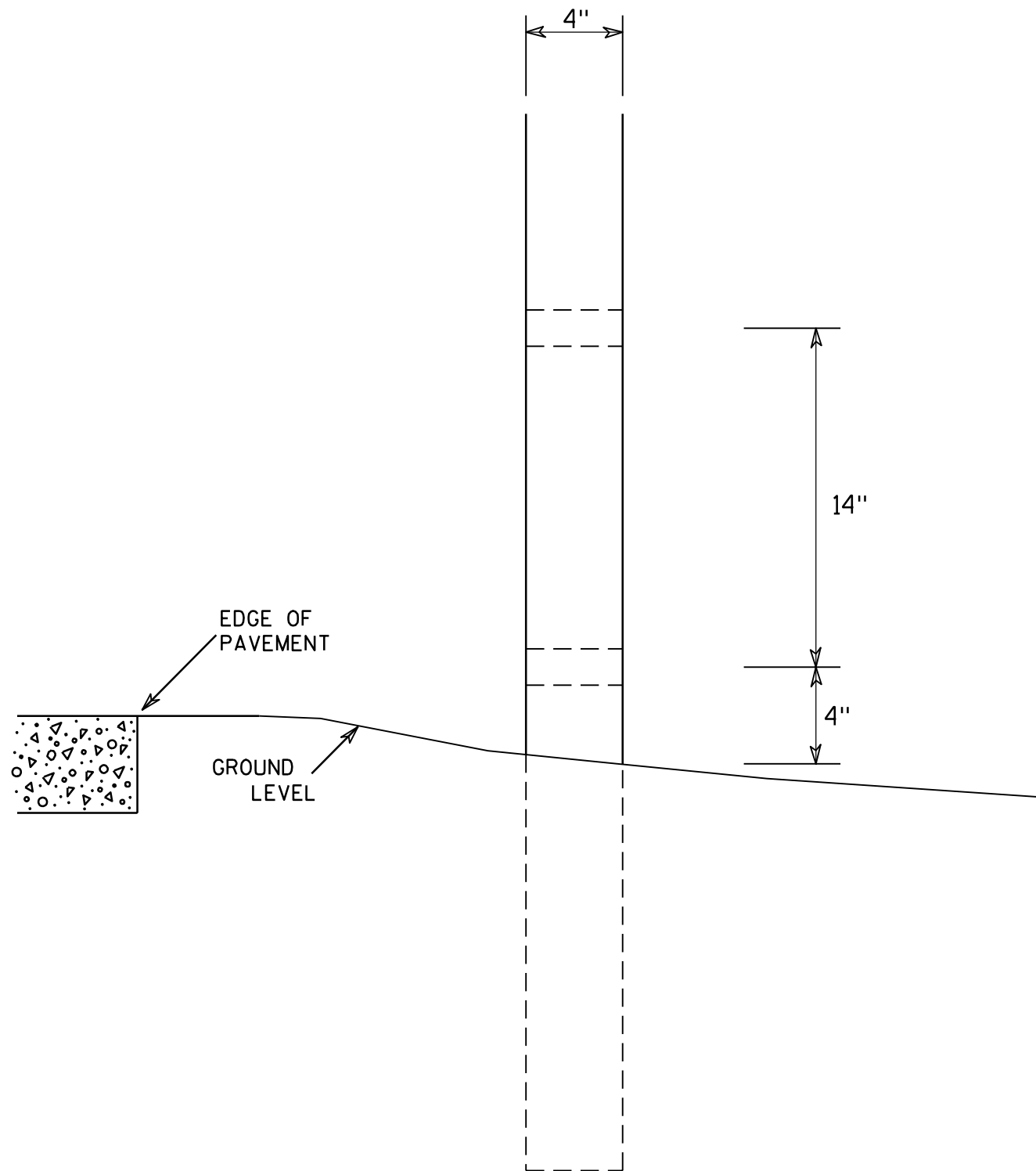
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



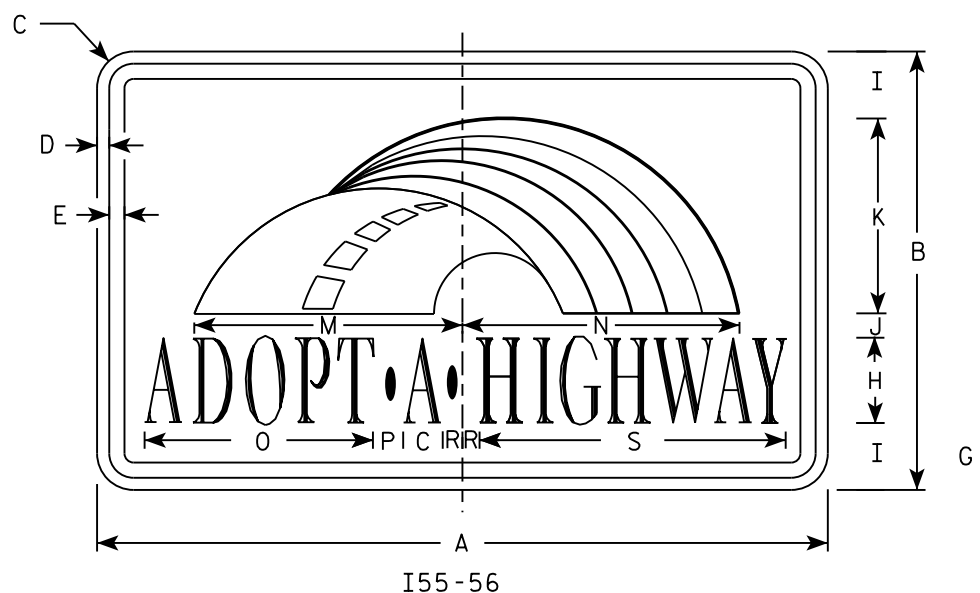
GENERAL NOTES

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

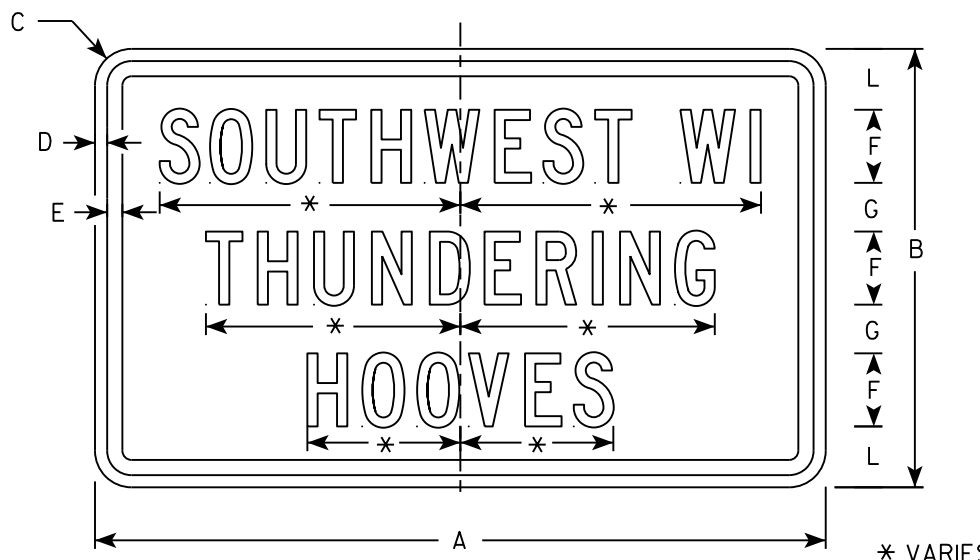
7

7

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



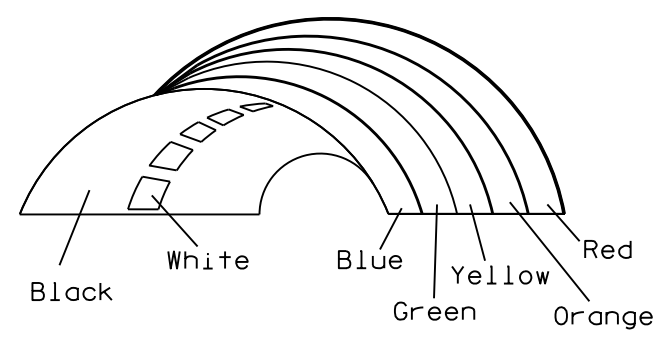
I55-56



I55-56P

* VARIES

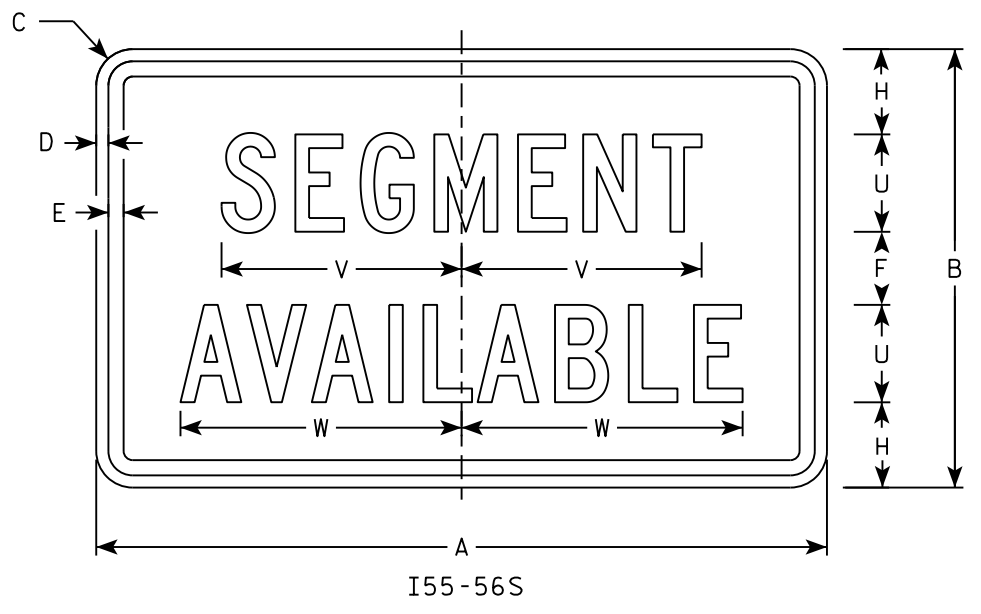
Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - (See Note 4)
3. Message Series - (See Note 5)
4. Border - Blue
Adopt a Highway - Red
All other Text - Blue
5. Adopt a Highway - Dutch 8011L
All other Text - Series C
6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.



I55-56S

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																											
2	30	18	1 1/2	1/2	5/8	3	2	3 1/2	2 3/4	1	8	2 1/2	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

STANDARD SIGN
I55-56

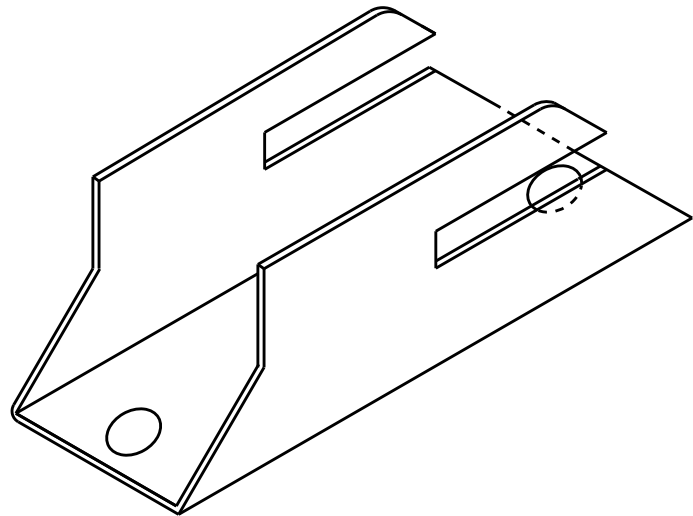
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

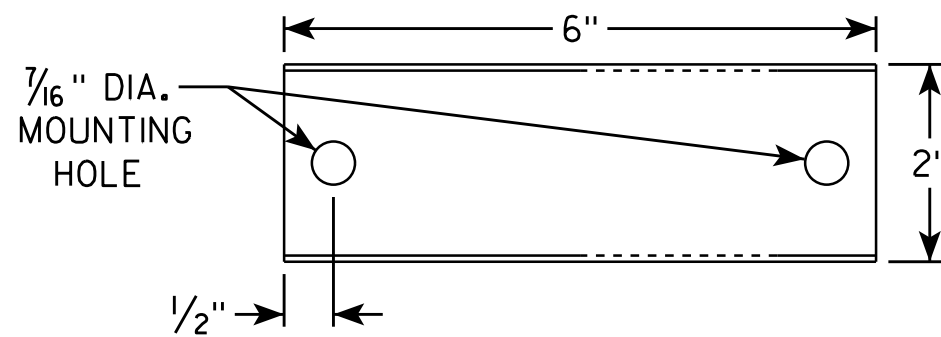
DATE 2/20/18 PLATE NO. I55-56.4

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

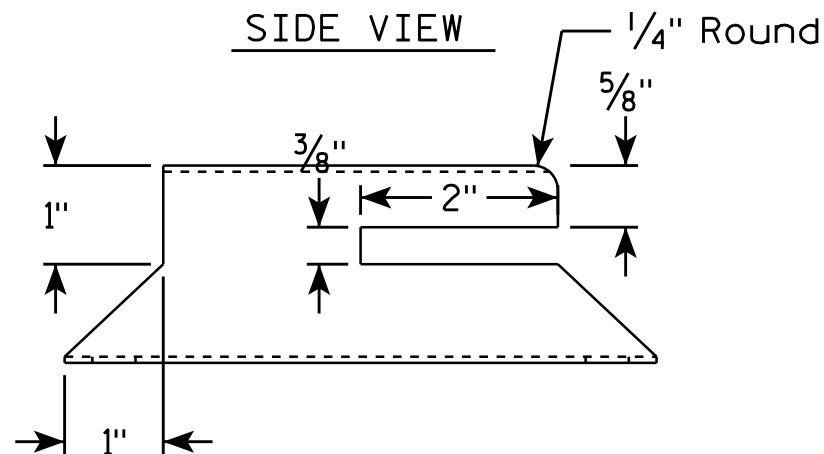
ISOMETRIC VIEW



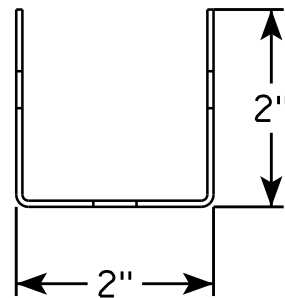
TOP VIEW



SIDE VIEW



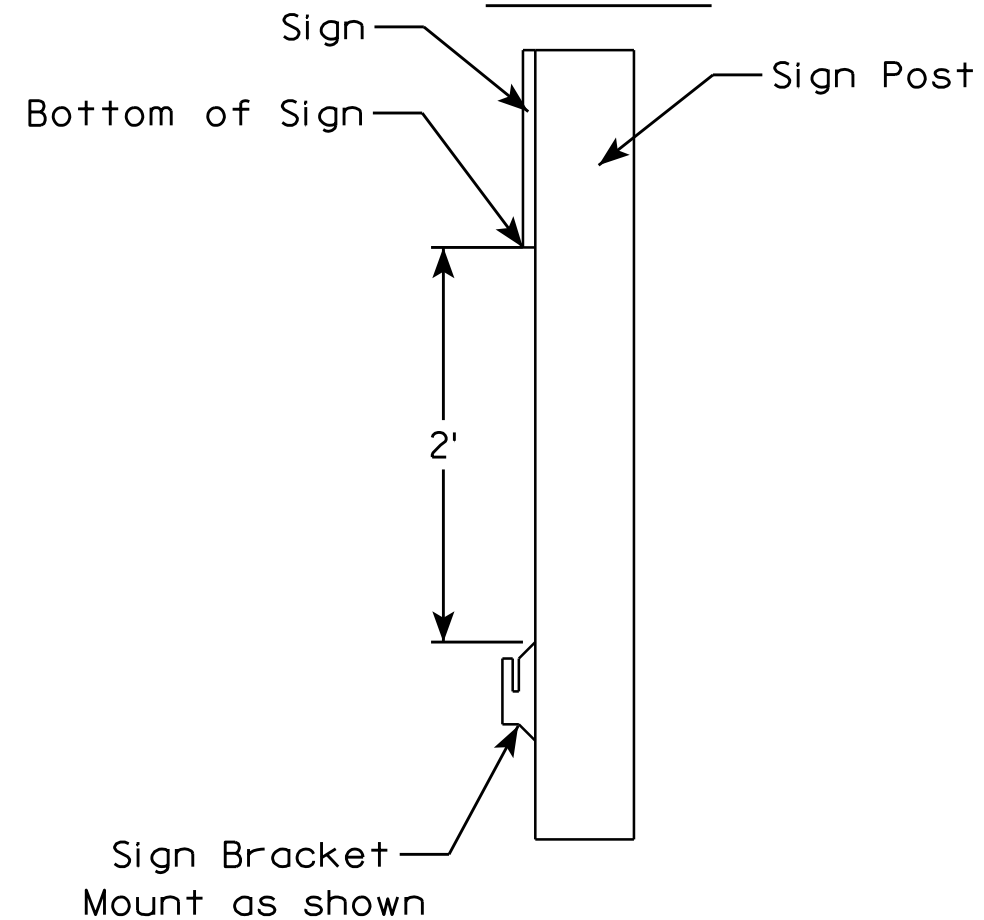
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

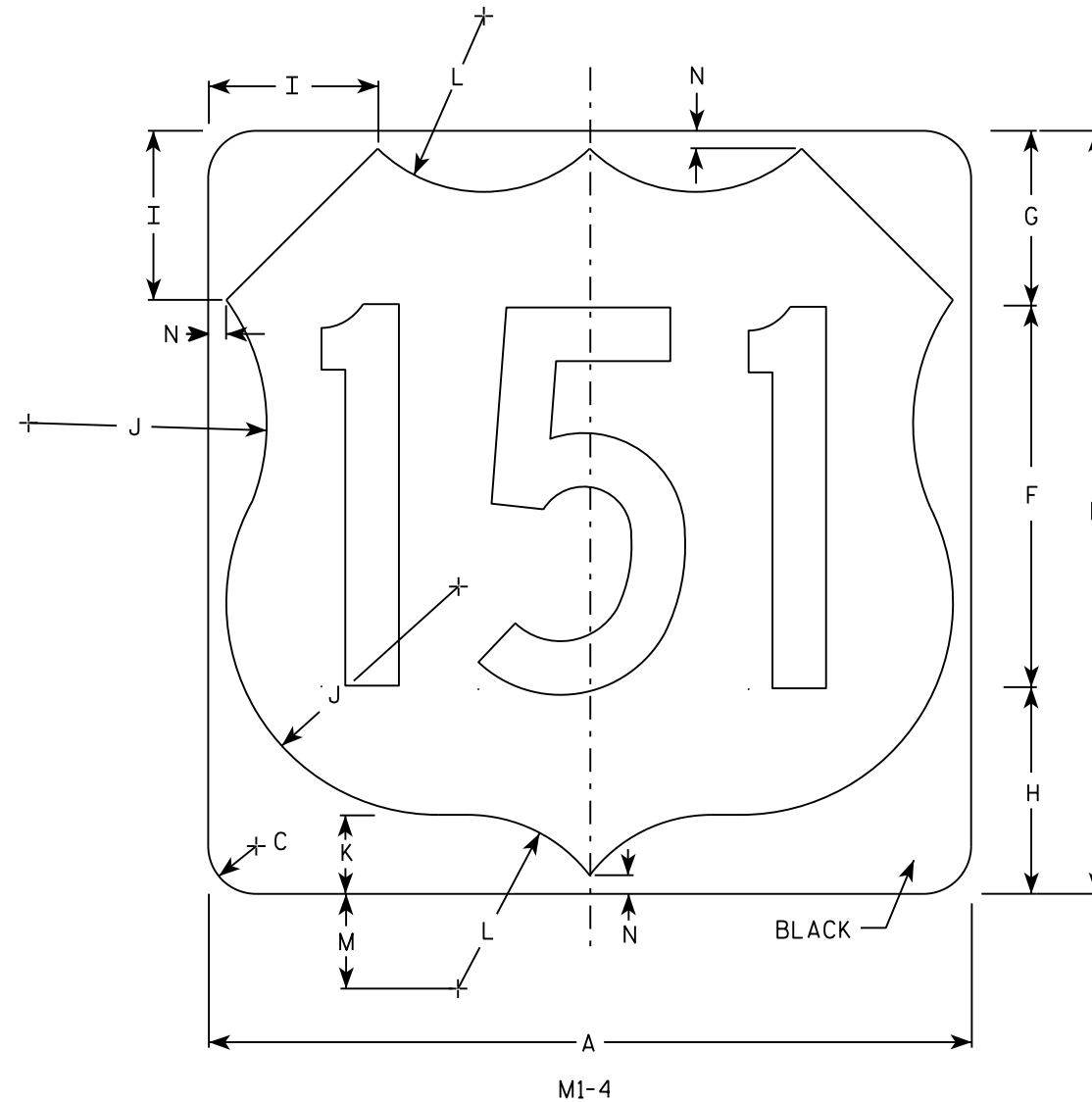
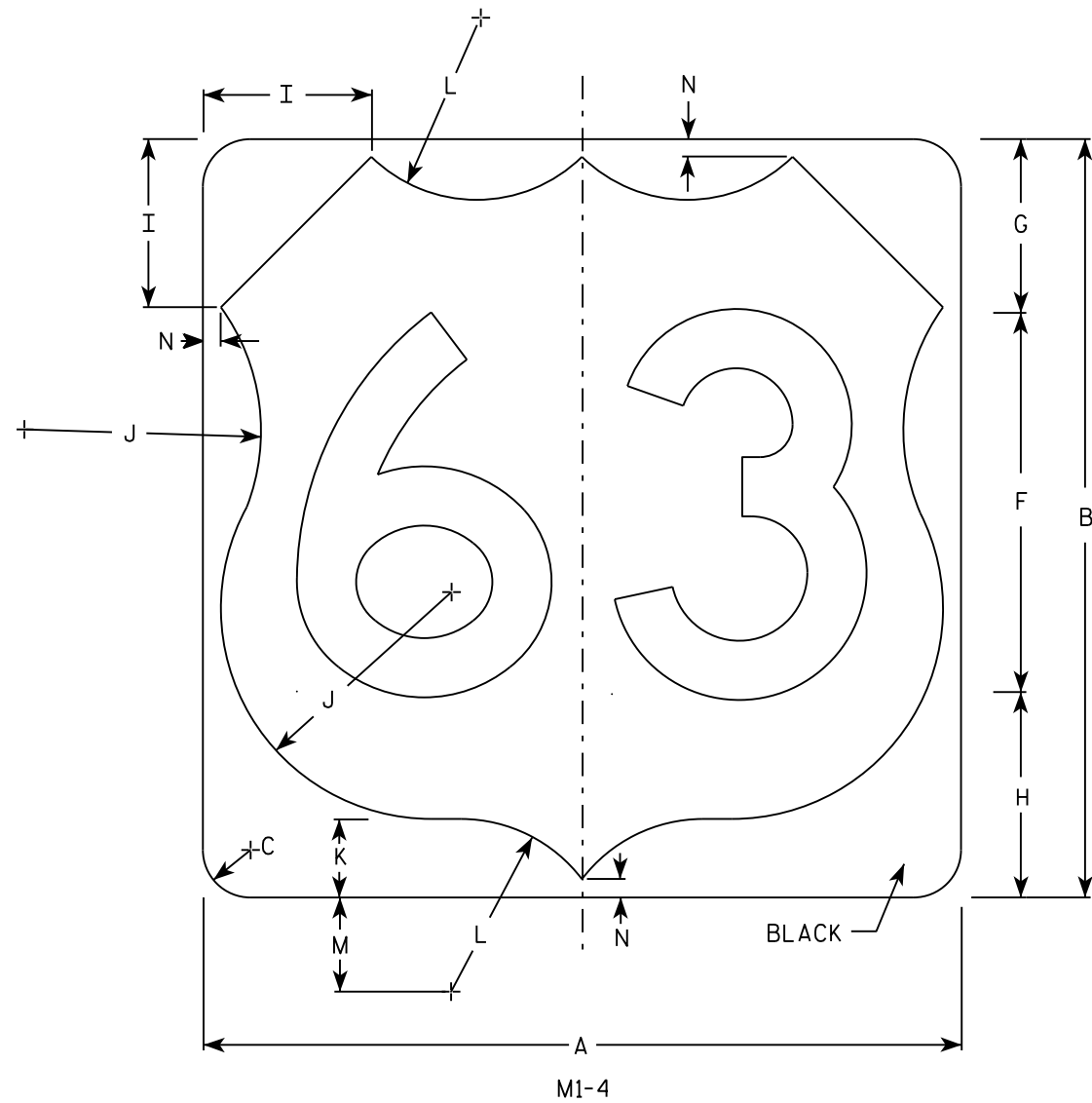
SIDE VIEW



ROLLUP SIGN BRACKET I55-56B	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R Rauch</i> for State Traffic Engineer
DATE 4/26/16	PLATE NO: I55-56B.2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Black
3. Message Series - D except 3 number signs Series C
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																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

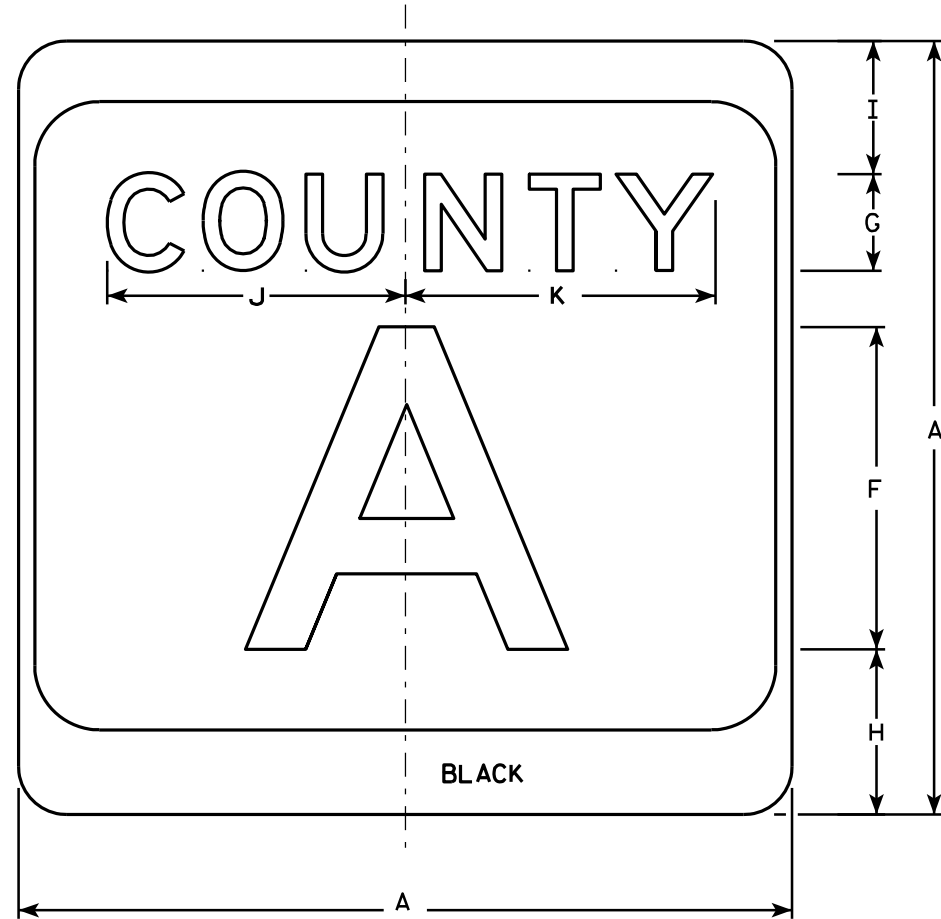
APPROVED *Matthew R Rauch*
For State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-4.10

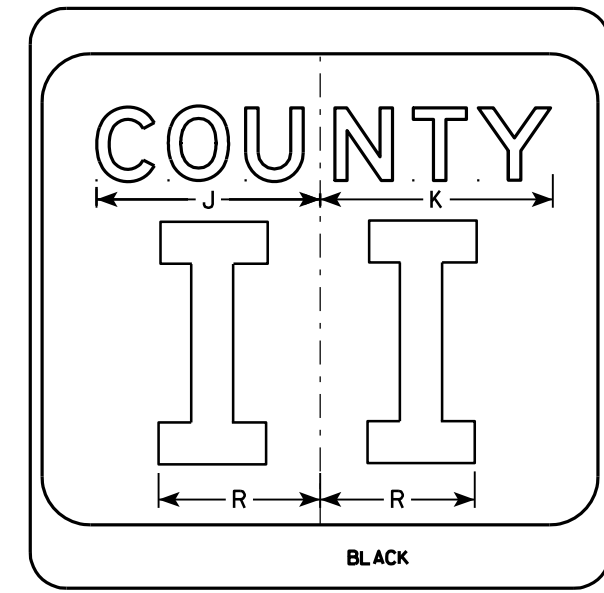
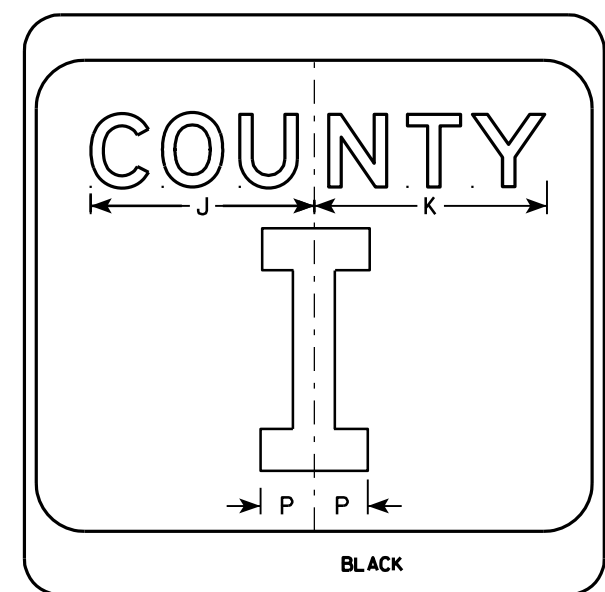
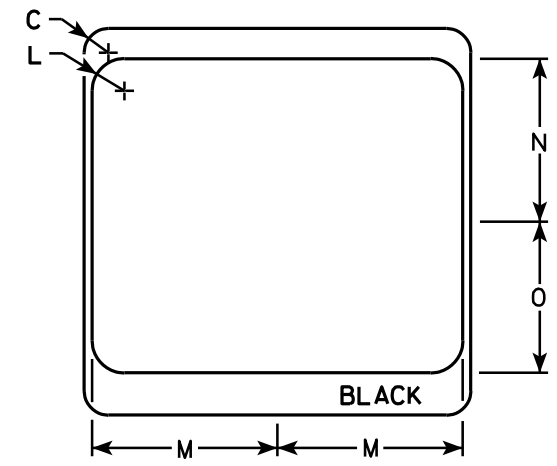
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 7
Message - Black
3. Message Series - see Note 5
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.
5. Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



M1-5A



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																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

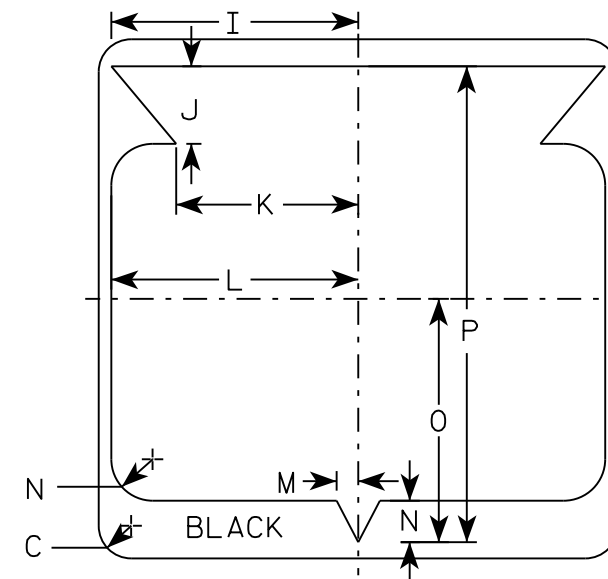
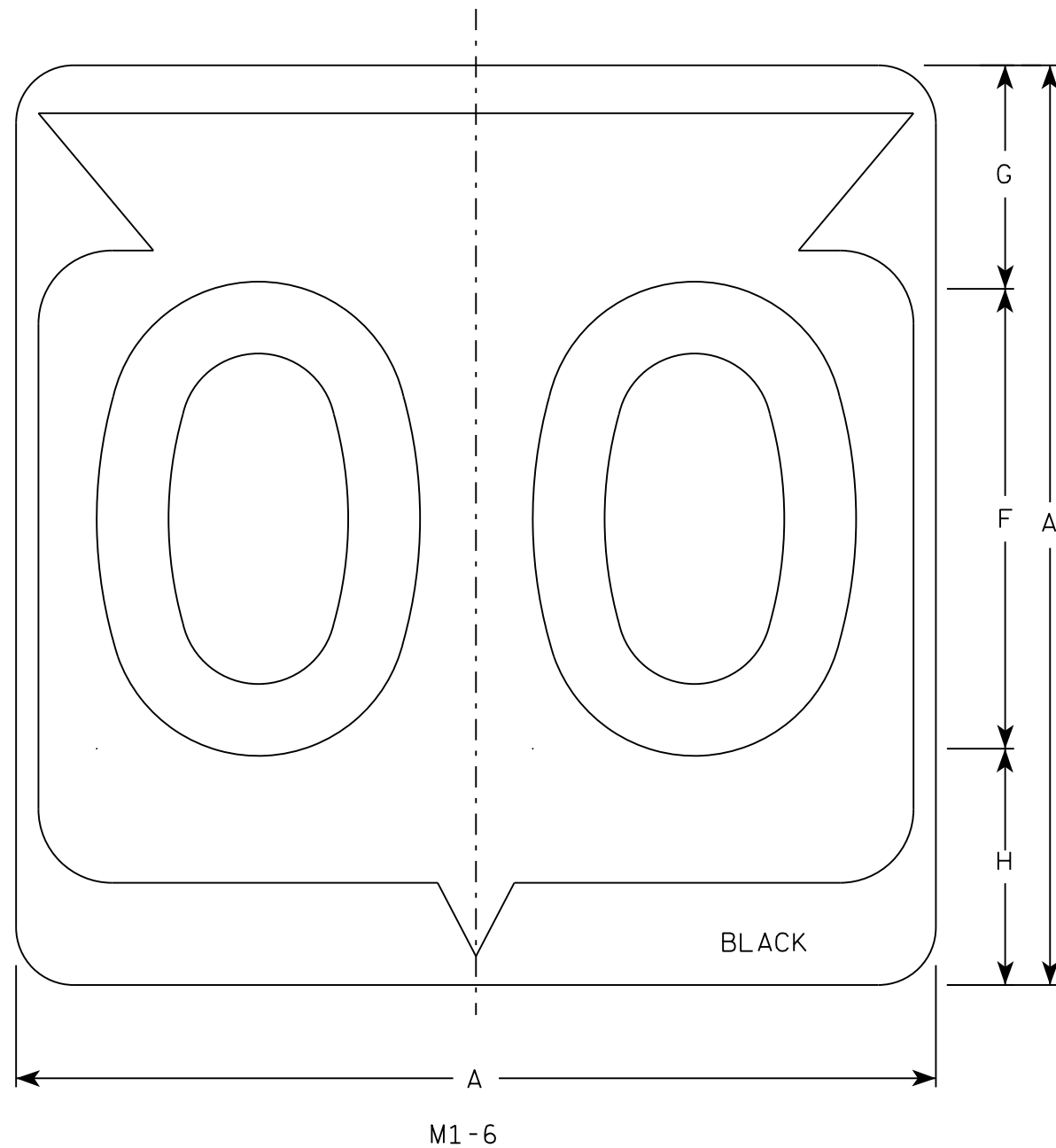
APPROVED *Matthew R. Raub*
For State Traffic Engineer

DATE 9/27/11 PLATE NO. MI-5A.8

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Black
3. Message Series - D except 3 number signs Series C
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																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

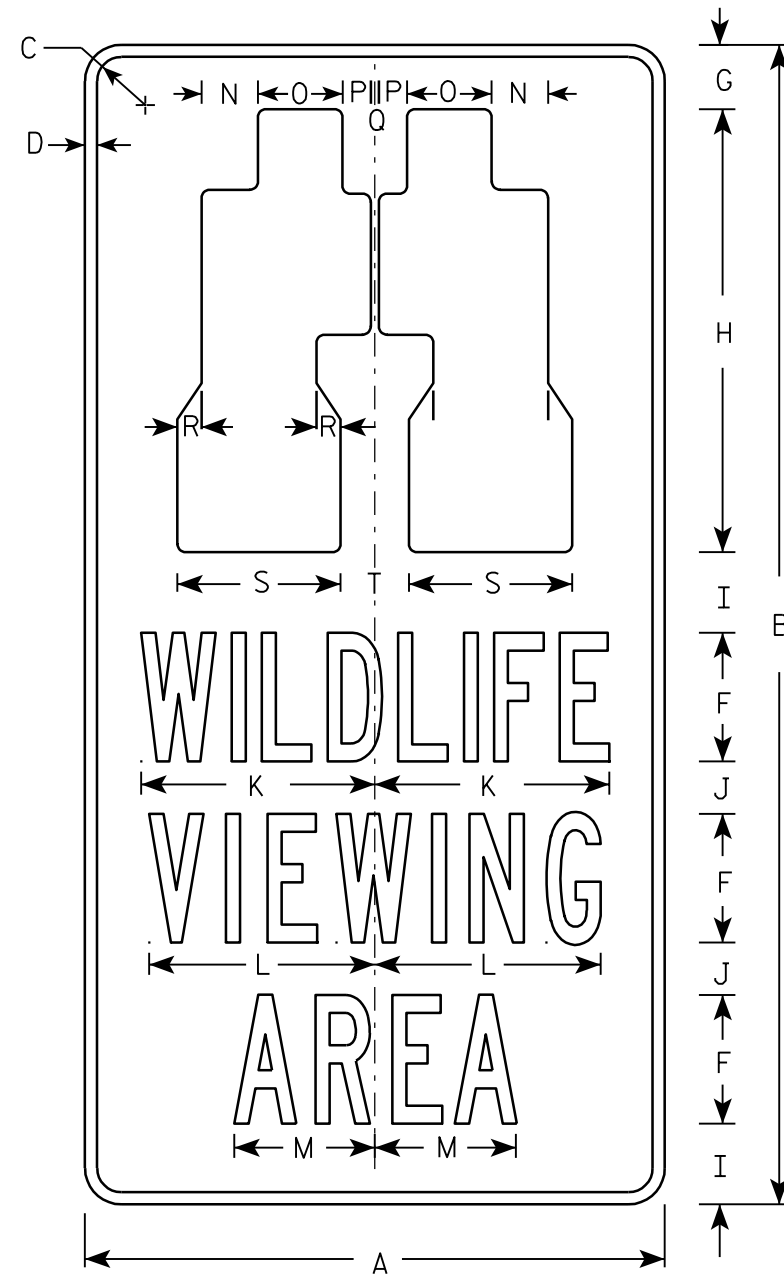
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Brown
Message - White - Type H Reflective
3. Message Series - B
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.



M1-86

7

7

Metric equivalent for this sign is:

SIZE	
1	
2	450 mm X 900 mm
3	
4	
5	

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.	Area m ²
1																												
2	18	36	1 1/8	3/8		4	2	13 3/4	2 1/2	1 5/8	7 1/4	7	4 3/8	1 3/4	2 5/8	7/8	1/4	3/4	5 1/8	2 1/8						4.5	.41	
3																												
4																												
5																												

STANDARD SIGN
M1-86

WISCONSIN DEPT OF TRANSPORTATION

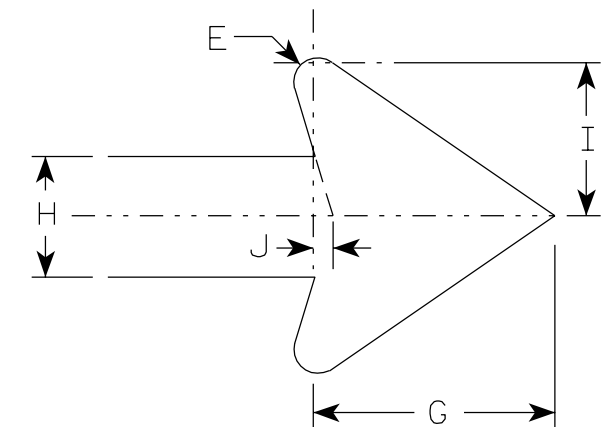
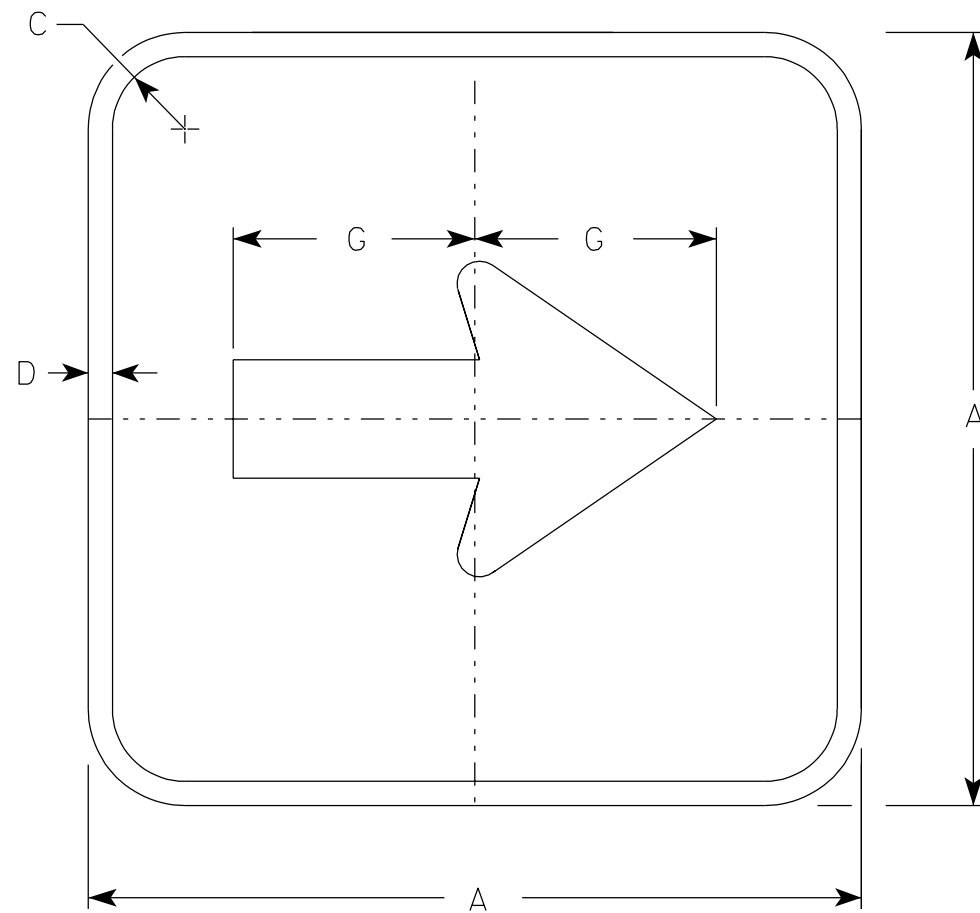
APPROVED *Chester J. Spang*
for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-86.3

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Brown
Message - White - Type H Reflective
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.



M1-88A

7

7

Metric equivalent for this sign is:

SIZE	
1	
2	300 mm X 300 mm
3	
4	
5	

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.	Area m ²
1																												
2	12		1 1/8				3 3/4	1 7/8	2 3/8	5/16																1.0	.09	
3																												
4																												
5																												

STANDARD SIGN
M1-88A

WISCONSIN DEPT OF TRANSPORTATION

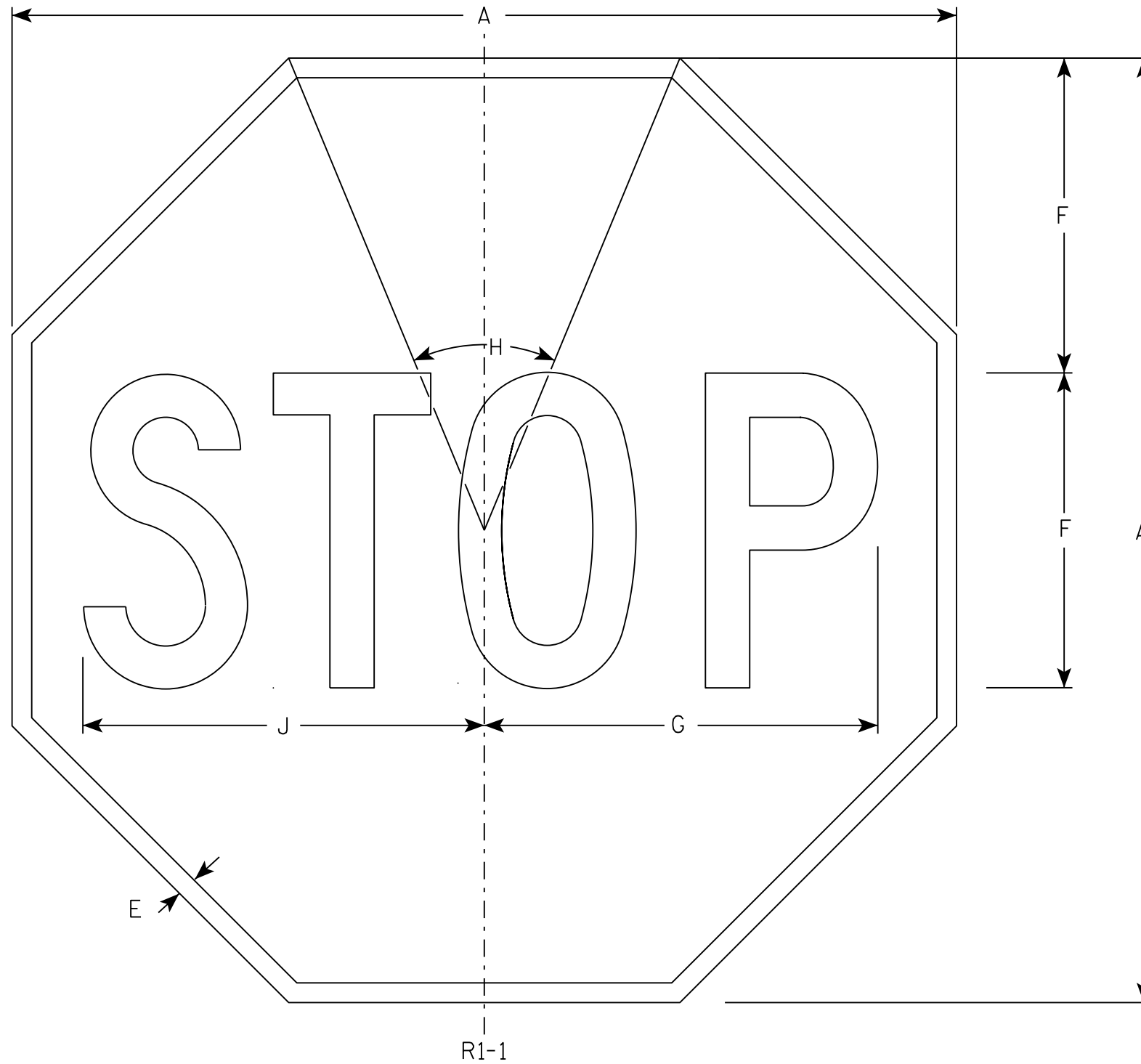
APPROVED *Christa J. Spang*
for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-88A.2

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Red
Message - White
3. Message Series - C



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	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

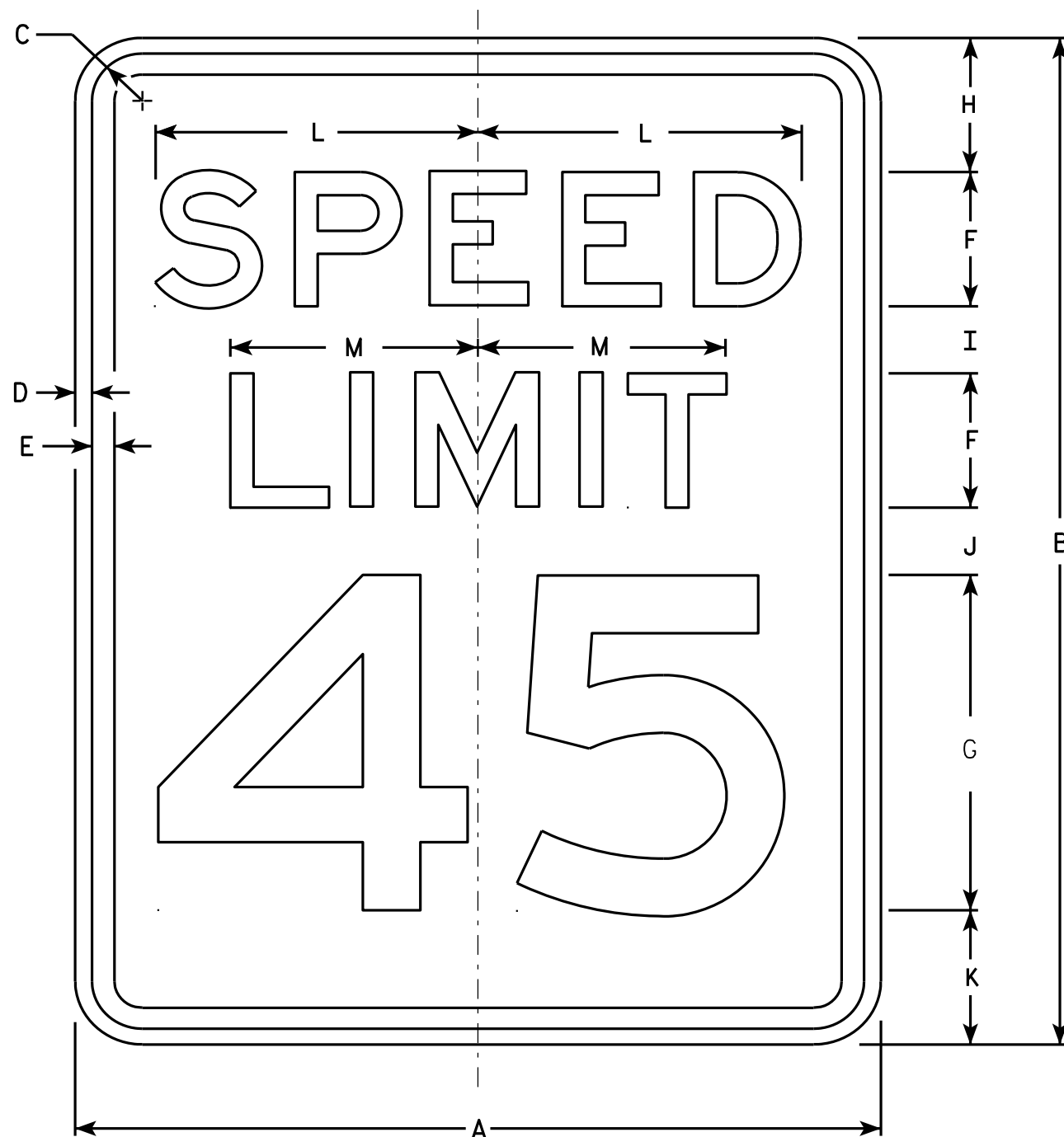
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ **E**



R2-1

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 - E
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.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

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	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

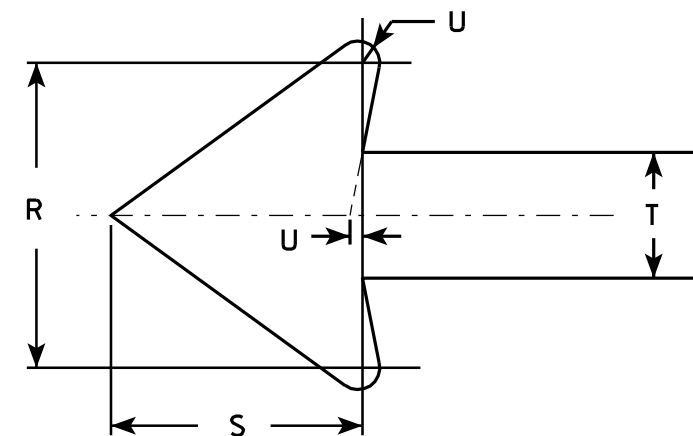


R7-2

* - See Note 5

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 - Red
3. Message Series - See Note 7
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.
5. Substitute appropriate numerals as required & adjust spacing to achieve proper balance.
6. R7-2D (double arrow)
R7-2L (left arrow)
R7-2R (right arrow)
7. Lines 1, 3 and 4 are series C, line 2 is series B.



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	12	18	1 1/8	3/8	3/8	3	1 7/8	1 1/2	7/8	7/8	2	2 1/2	2	2	4 7/8	4 7/8	3 7/8	1 3/4	1 1/2	3/4	1/8					1.5	
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 7/8	2 5/8	2 1/4	1 1/8	1/4					3.0	
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4					5.0	
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4					5.0	
4																											
5																											

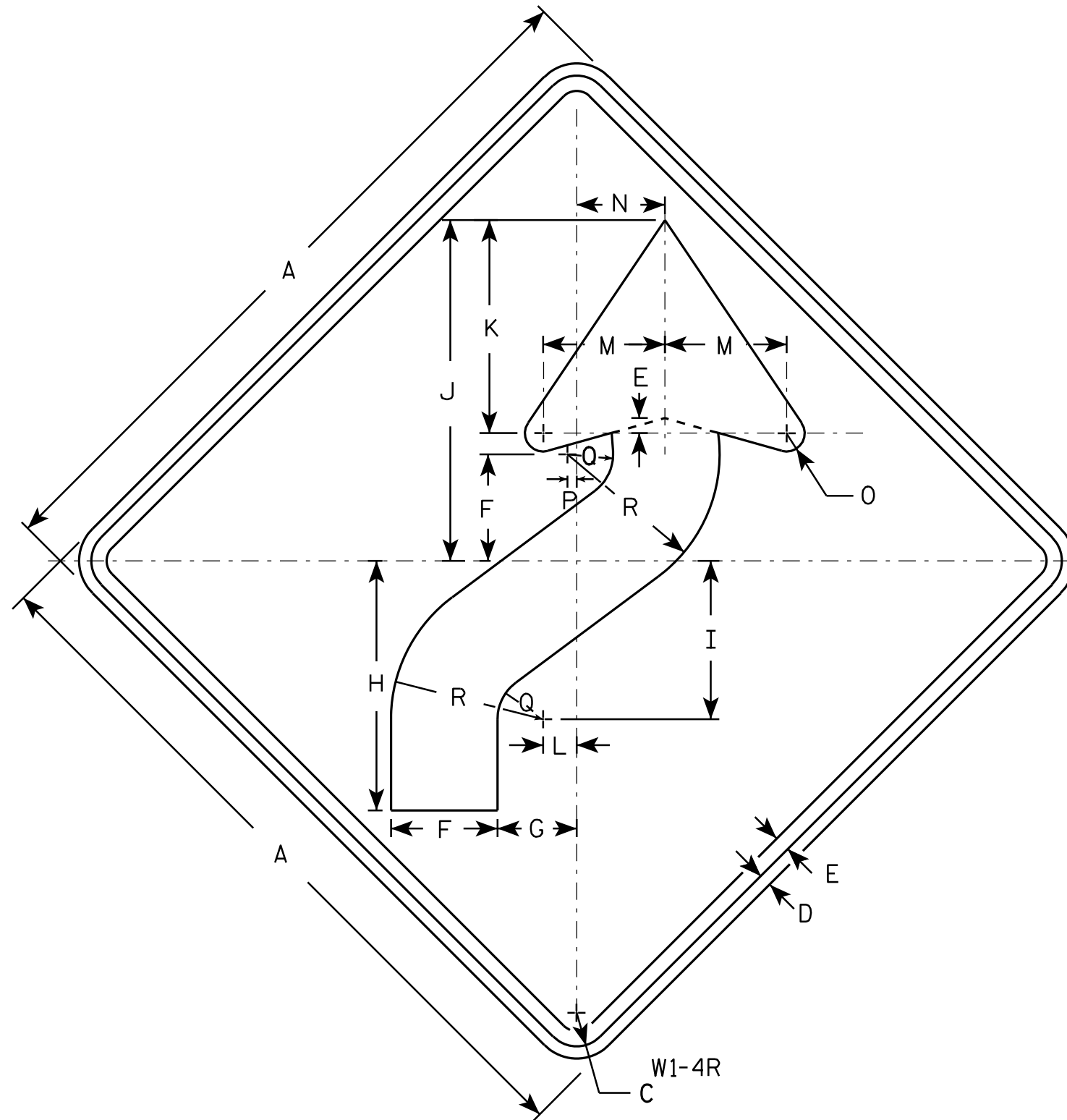
STANDARD SIGN
R7-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-2.9

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
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.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

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	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

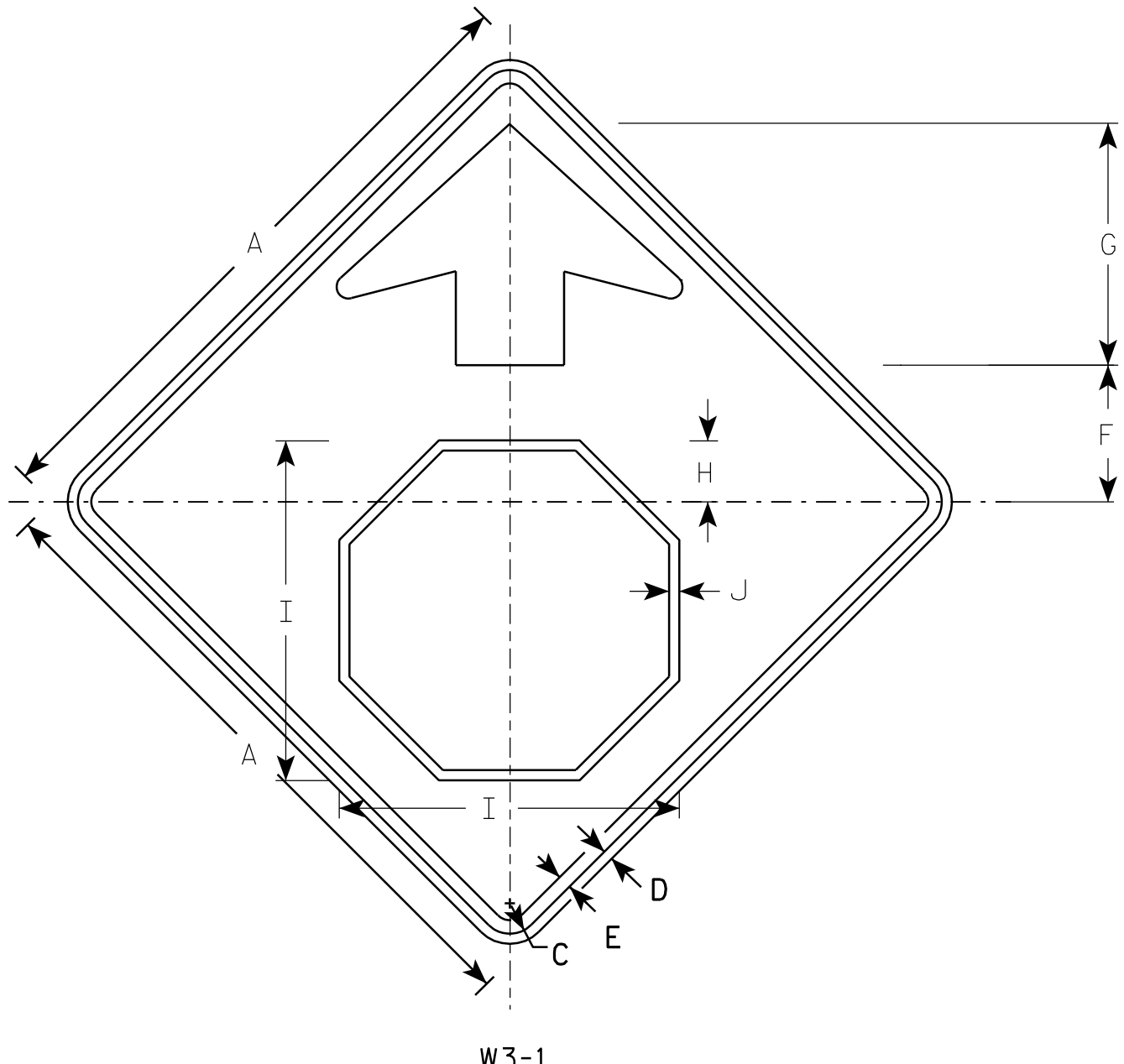
STANDARD SIGN
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Raub*
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

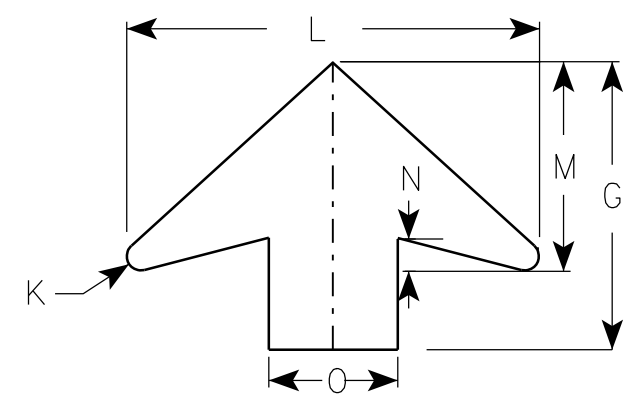
PROJECT NO: HWY: COUNTY: SHEET NO: E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 Background - YELLOW
 Arrow & Border - BLACK
 Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

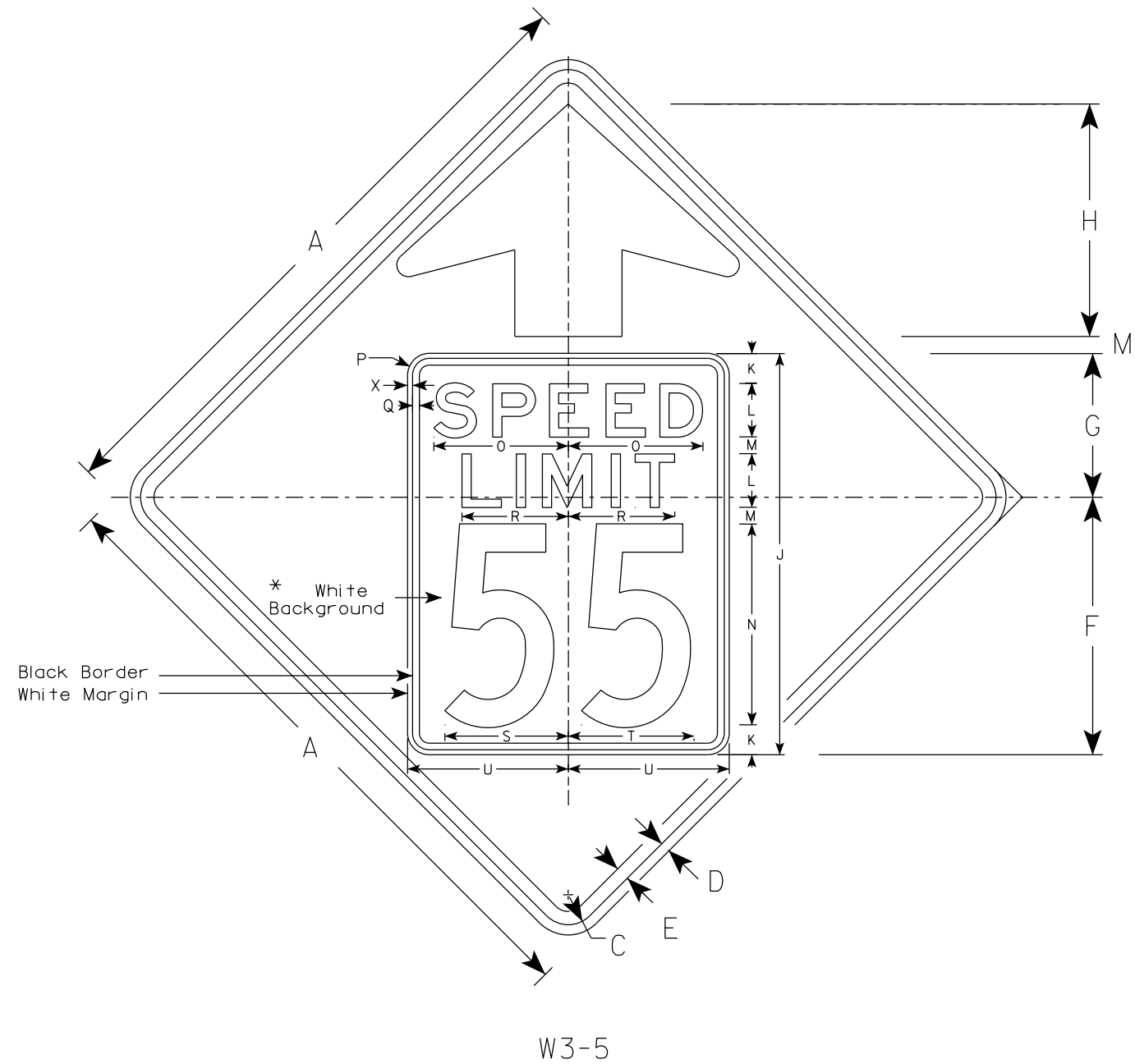
STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

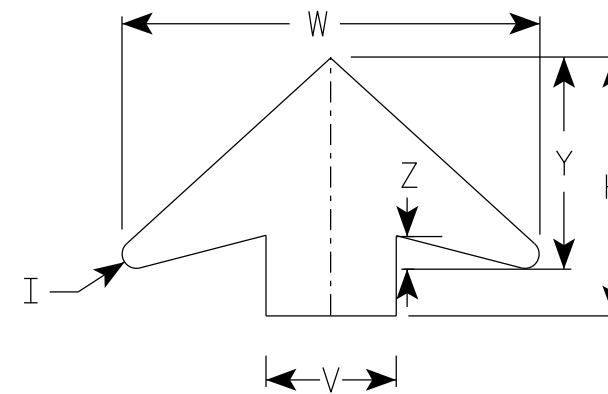
PROJECT NO: _____ SHEET NO: _____ E



NOTES

1. Sign is Type II - See Note 2 for Sheeting Type
2. Color: *
Background - Yellow* (Type F Reflective)
Message - Black
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)



ARROW DETAIL

W3-5

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																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/27/2020 PLATE NO. W3-5.6

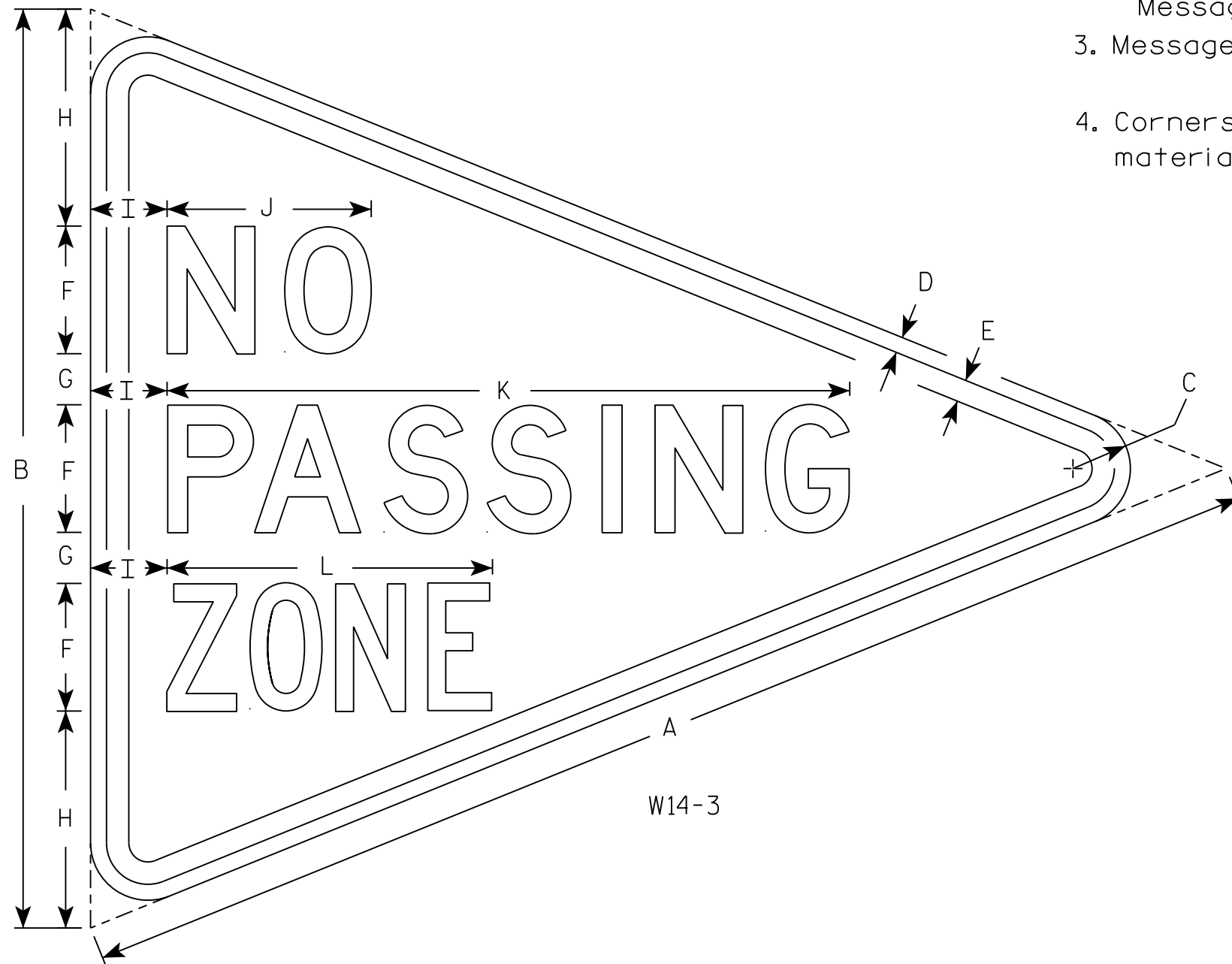
PROJECT NO:

SHEET NO:

E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Yellow
Message - Black
3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



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																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

CTH G

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 4	
00+50	0.00	0.00	0.00	0.00	0	0	0	0	0	0
01+00	50.00	13.65	0.00	0.26	13	0	0	13	0	13
01+50	50.00	13.07	0.00	0.29	25	0	1	38	1	37
02+00	50.00	12.69	0.00	0.26	24	0	1	62	3	60
02+50	50.00	12.32	0.00	0.17	23	0	0	85	3	83
03+00	50.00	11.99	0.00	0.07	23	0	0	108	3	106
03+50	50.00	11.70	0.00	0.07	22	0	0	130	3	128
04+00	50.00	11.71	0.00	0.14	22	0	0	152	3	150
04+50	50.00	13.07	0.00	0.10	23	0	0	175	3	173
05+00	50.00	14.55	0.00	0.05	26	0	0	201	3	199
05+50	50.00	13.11	0.00	0.14	26	0	0	227	3	225
06+00	50.00	11.81	0.00	0.28	23	0	0	250	3	248
06+50	50.00	10.64	0.00	0.48	21	0	1	271	4	267
07+00	50.00	10.43	0.00	0.49	20	0	1	291	5	286
07+50	50.00	10.60	0.00	0.44	19	0	1	310	6	304
08+00	50.00	10.76	0.00	0.39	20	0	1	330	8	323
08+50	50.00	10.90	0.00	0.33	20	0	1	350	9	341
09+00	50.00	11.04	0.00	0.27	20	0	1	370	10	360
09+50	50.00	11.45	0.00	0.23	21	0	0	391	10	381
10+00	50.00	12.50	0.00	0.22	22	0	0	413	10	403
10+50	50.00	13.47	0.00	0.28	24	0	0	437	10	427
11+00	50.00	14.42	0.00	0.37	26	0	1	463	11	452
11+50	50.00	14.88	0.00	0.65	27	0	1	490	13	478
12+00	50.00	13.99	0.00	0.68	27	0	1	517	14	503
12+50	50.00	13.11	0.00	0.67	25	0	1	542	15	527
13+00	50.00	12.27	0.00	0.45	23	0	1	565	16	549
13+50	50.00	11.50	0.00	0.68	22	0	1	587	18	570
14+00	50.00	10.84	0.00	0.67	21	0	1	608	19	589
14+50	50.00	12.11	0.00	0.46	21	0	1	629	20	609
15+00	50.00	13.43	0.00	0.33	24	0	1	653	21	632
15+50	50.00	14.80	0.00	0.25	26	0	1	679	23	657
16+00	50.00	15.69	0.00	0.22	28	0	0	707	23	685
16+50	50.00	16.02	0.00	0.25	29	0	0	736	23	714
17+00	50.00	16.10	0.00	0.24	30	0	0	766	23	744
17+50	50.00	17.11	0.00	0.17	31	0	0	797	23	775
18+00	50.00	17.52	0.00	0.14	32	0	0	829	23	807
18+50	50.00	17.31	0.00	0.17	32	0	0	861	23	839
19+00	50.00	16.48	0.00	0.24	31	0	0	892	23	870
19+50	50.00	15.07	0.00	0.40	29	0	1	921	24	897
20+00	50.00	13.07	0.00	0.83	26	0	1	947	25	922
20+50	50.00	10.82	0.00	1.23	22	0	2	969	28	942
21+00	50.00	8.18	0.00	1.86	18	0	3	987	31	956
21+50	50.00	7.18	0.00	2.80	14	0	4	1,001	36	965
22+00	50.00	5.70	0.00	4.11	12	0	6	1,013	44	969
22+50	50.00	6.09	0.00	3.46	11	0	7	1,024	53	972
23+00	50.00	6.52	0.00	2.17	12	0	5	1,036	59	977
23+50	50.00	8.52	0.00	2.34	14	0	4	1,050	64	986
24+00	50.00	8.80	0.00	5.30	16	0	7	1,066	73	994
24+50	50.00	10.77	0.00	4.64	18	0	9	1,084	84	1,000
25+00	50.00	11.22	0.00	3.89	20	0	8	1,104	94	1,010
25+50	50.00	9.77	0.00	3.95	19	0	7	1,123	103	1,021
26+00	50.00	9.99	0.00	3.40	18	0	7	1,141	111	1,030
26+50	50.00	11.07	0.00	2.22	20	0	5	1,161	118	1,044
27+00	50.00	10.28	0.00	0.66	20	0	3	1,181	121	1,060
27+50	50.00	10.26	0.00	0.41	19	0	1	1,200	123	1,078
28+00	50.00	8.73	0.00	0.78	18	0	1	1,218	124	1,094
28+50	50.00	7.96	0.00	0.46	15	0	1	1,233	125	1,108
29+00	50.00	6.58	0.00	0.45	13	0	1	1,246	126	1,120
29+50	50.00	8.24	0.00	3.77	14	0	4	1,260	131	1,129
30+00	50.00	9.87	0.00	1.24	17	0	5	1,277	138	1,140

9

9

PROJECT NO: 4489-02-70

HWY: CTH G

COUNTY: CALUMET

EARTHWORK DATA

SHEET

E

CTH G											
STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL		MASS ORDINATE
									1.00	1.25	
NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 4		
30+50	50.00	3.49	0.00	1.96	12	0	3	1,289	141	1,148	
31+00	50.00	3.08	0.00	2.75	6	0	4	1,295	146	1,149	
31+50	50.00	7.60	0.00	1.23	10	0	4	1,305	151	1,154	
32+00	50.00	11.44	0.00	0.61	18	0	2	1,323	154	1,169	
32+50	50.00	12.82	0.00	0.31	22	0	1	1,345	155	1,190	
33+00	50.00	14.28	0.00	0.13	25	0	0	1,370	155	1,215	
33+50	50.00	13.87	0.00	0.09	26	0	0	1,396	155	1,241	
34+00	50.00	12.75	0.00	0.06	25	0	0	1,421	155	1,266	
34+50	50.00	11.90	0.00	0.05	23	0	0	1,444	155	1,289	
35+00	50.00	14.53	0.00	0.00	24	0	0	1,468	155	1,313	
35+50	50.00	52.05	17.50	0.00	62	0	0	1,530	155	1,375	
36+00	50.00	64.56	17.50	0.00	108	32	0	1,638	155	1,451	
36+50	50.00	61.47	17.50	0.00	117	32	0	1,755	155	1,536	
37+00	50.00	71.96	17.50	1.66	124	32	2	1,879	158	1,626	
37+50	50.00	72.97	17.50	0.16	134	32	2	2,013	160	1,725	
38+00	50.00	78.19	17.50	0.00	140	32	0	2,153	160	1,833	
38+50	50.00	100.42	17.50	0.00	165	32	0	2,318	160	1,966	
39+00	50.00	72.76	17.50	0.00	160	32	0	2,478	160	2,094	
39+50	50.00	70.86	17.50	0.00	133	32	0	2,611	160	2,195	
40+00	50.00	78.66	17.50	0.00	138	32	0	2,749	160	2,301	
40+50	50.00	76.03	17.50	0.00	143	32	0	2,892	160	2,412	
41+00	50.00	74.80	17.50	0.00	140	32	0	3,032	160	2,520	
41+50	50.00	73.76	17.50	1.03	138	32	1	3,170	161	2,625	
42+00	50.00	75.55	17.50	1.14	138	32	2	3,308	164	2,728	
42+50	50.00	75.00	17.50	0.72	139	32	2	3,447	166	2,833	
43+00	50.00	67.97	17.50	0.00	132	32	1	3,579	168	2,932	
43+50	50.00	66.25	17.50	0.00	124	32	0	3,703	168	3,024	
44+00	50.00	72.48	17.50	0.00	128	32	0	3,831	168	3,120	
44+50	50.00	83.75	17.50	0.00	145	32	0	3,976	168	3,233	
45+00	50.00	90.68	17.50	0.00	162	32	0	4,138	168	3,363	
45+50	50.00	86.51	17.50	0.00	164	32	0	4,302	168	3,495	
46+00	50.00	81.05	17.50	0.00	155	32	0	4,457	168	3,618	
46+50	50.00	74.55	17.50	0.00	144	32	0	4,601	168	3,730	
47+00	50.00	66.05	17.50	0.00	130	32	0	4,731	168	3,828	
47+50	50.00	11.96	0.00	0.00	72	0	0	4,803	168	3,900	
48+00	50.00	12.33	0.00	0.00	22	0	0	4,825	168	3,922	
48+50	50.00	11.06	0.00	0.16	22	0	0	4,847	168	3,944	
49+00	50.00	10.69	0.00	0.02	20	0	0	4,867	168	3,964	
49+50	50.00	10.60	0.00	0.28	20	0	0	4,887	168	3,984	
50+00	50.00	10.06	0.00	0.91	19	0	1	4,906	169	4,001	
50+50	50.00	9.44	0.00	1.89	18	0	3	4,924	173	4,016	
51+00	50.00	9.06	0.00	1.24	17	0	3	4,941	176	4,029	
51+50	50.00	10.05	0.00	0.76	18	0	2	4,959	179	4,044	
52+00	50.00	11.05	0.00	0.41	20	0	1	4,979	180	4,063	
52+50	50.00	12.09	0.00	0.62	21	0	1	5,000	181	4,083	
53+00	50.00	13.49	0.00	0.03	24	0	1	5,024	183	4,106	
53+50	50.00	10.59	0.00	0.03	22	0	0	5,046	183	4,128	
54+00	50.00	9.93	0.00	0.64	19	0	1	5,065	184	4,145	
54+50	50.00	11.36	0.00	0.40	20	0	1	5,085	185	4,164	
55+00	50.00	14.47	0.00	0.12	24	0	0	5,109	185	4,188	
55+50	50.00	12.10	0.00	0.23	25	0	0	5,134	185	4,213	
56+00	50.00	12.94	0.00	0.13	23	0	0	5,157	185	4,236	
56+50	50.00	17.57	0.00	0.06	28	0	0	5,185	185	4,264	
57+00	50.00	14.46	0.00	1.58	30	0	2	5,215	188	4,292	
57+50	50.00	11.79	0.00	6.00	24	0	7	5,239	196	4,307	
58+00	50.00	11.72	0.00	1.67	22	0	7	5,261	205	4,320	
58+50	50.00	11.84	0.00	0.19	22	0	2	5,283	208	4,340	
59+00	50.00	11.96	0.00	0.65	22	0	1	5,305	209	4,360	
59+50	50.00	11.99	0.00	0.44	22	0	1	5,327	210	4,381	
60+00	50.00	6.96	0.00	1.32	18	0	2	5,345	213	4,397	

9

9

PROJECT NO: 4489-02-70

HWY: CTH G

COUNTY: CALUMET

EARTHWORK DATA

SHEET

E

CTH G

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
NOTE 1	NOTE 2	NOTE 3	NOTE 1							
60+50	50.00	5.98	0.00	0.26	12	0	1	5,357	214	4,407
61+00	50.00	7.01	0.00	0.45	12	0	1	5,369	215	4,418
61+50	50.00	11.68	0.00	0.01	17	0	0	5,386	215	4,435
62+00	50.00	12.77	0.00	0.03	23	0	0	5,409	215	4,458
62+50	50.00	10.72	0.00	0.34	22	0	0	5,431	215	4,480
63+00	50.00	12.77	0.00	0.09	22	0	0	5,453	215	4,502
63+50	50.00	15.98	0.00	0.01	27	0	0	5,480	215	4,529
64+00	50.00	17.11	0.00	0.00	31	0	0	5,511	215	4,560
64+50	50.00	17.02	0.00	0.00	32	0	0	5,543	215	4,592
65+00	50.00	16.85	0.00	0.00	31	0	0	5,574	215	4,623
65+50	50.00	15.70	0.00	0.00	30	0	0	5,604	215	4,653
66+00	50.00	14.23	0.00	0.00	28	0	0	5,632	215	4,681
66+50	50.00	13.42	0.00	0.01	26	0	0	5,658	215	4,707
67+00	50.00	13.67	0.00	0.01	25	0	0	5,683	215	4,732
67+50	50.00	14.93	0.00	0.01	26	0	0	5,709	215	4,758
68+00	50.00	11.96	0.00	0.04	25	0	0	5,734	215	4,783
68+50	50.00	11.15	0.00	0.08	21	0	0	5,755	215	4,804
69+00	50.00	10.53	0.00	0.13	20	0	0	5,775	215	4,824
69+50	50.00	8.44	0.00	0.30	18	0	0	5,793	215	4,842
70+00	50.00	5.92	0.00	1.02	13	0	1	5,806	216	4,854
70+50	50.00	6.40	0.00	0.70	11	0	2	5,817	219	4,862
71+00	50.00	5.86	0.00	0.67	11	0	1	5,828	220	4,872
71+50	50.00	5.21	0.00	0.66	10	0	1	5,838	221	4,881
72+00	50.00	3.83	0.00	0.85	8	0	1	5,846	223	4,888
72+50	50.00	2.03	0.00	1.26	5	0	2	5,851	225	4,890
73+00	50.00	1.18	0.00	1.50	3	0	3	5,854	229	4,889
73+50	50.00	0.57	0.00	1.99	2	0	3	5,856	233	4,888
74+00	50.00	0.16	0.00	2.70	1	0	4	5,857	238	4,884
74+50	50.00	0.00	0.00	3.68	0	0	6	5,857	245	4,876
75+00	50.00	0.63	0.00	2.06	1	0	5	5,858	251	4,871
75+50	50.00	1.78	0.00	1.28	2	0	3	5,860	255	4,869
76+00	50.00	2.27	0.00	1.04	4	0	2	5,864	258	4,871
76+50	50.00	2.76	0.00	0.83	5	0	2	5,869	260	4,873
77+00	50.00	3.25	0.00	0.63	6	0	1	5,875	261	4,878
77+50	50.00	3.72	0.00	0.46	6	0	1	5,881	263	4,883
78+00	50.00	3.71	0.00	0.37	7	0	1	5,888	264	4,888
78+50	50.00	3.92	0.00	0.41	7	0	1	5,895	265	4,894
79+00	50.00	4.36	0.00	0.51	8	0	1	5,903	266	4,901
79+50	50.00	5.28	0.00	0.21	9	0	1	5,912	268	4,909
80+00	50.00	7.73	0.00	0.51	12	0	1	5,924	269	4,919
80+50	50.00	6.84	0.00	0.62	13	0	1	5,937	270	4,931
81+00	50.00	8.02	0.00	0.56	14	0	1	5,951	271	4,944
81+50	50.00	9.48	0.00	0.52	16	0	1	5,967	273	4,959
82+00	50.00	10.78	0.00	0.45	19	0	1	5,986	274	4,976
82+50	50.00	11.82	0.00	0.34	21	0	1	6,007	275	4,996
83+00	50.00	13.21	0.00	1.24	23	0	1	6,030	276	5,018
83+50	50.00	12.25	0.00	1.08	24	0	2	6,054	279	5,039
84+00	50.00	11.98	0.00	0.77	22	0	2	6,076	281	5,059
84+50	50.00	12.64	0.00	0.13	23	0	1	6,099	283	5,081
85+00	50.00	13.62	0.00	0.51	24	0	1	6,123	284	5,103
85+50	50.00	12.41	0.00	0.80	24	0	1	6,147	285	5,126
86+00	50.00	10.37	0.00	1.05	21	0	2	6,168	288	5,145
86+50	50.00	9.43	0.00	1.29	18	0	2	6,186	290	5,160
87+00	50.00	10.42	0.00	1.04	18	0	2	6,204	293	5,176
87+50	50.00	12.68	0.00	0.57	21	0	1	6,225	294	5,195
88+00	50.00	14.98	0.00	0.24	26	0	1	6,251	295	5,220
88+50	50.00	15.85	0.00	0.12	29	0	0	6,280	295	5,249
89+00	50.00	14.57	0.00	0.15	28	0	0	6,308	295	5,277
89+50	50.00	11.26	0.00	0.36	24	0	0	6,332	295	5,301
90+00	50.00	13.03	0.00	0.14	22	0	0	6,354	295	5,323

9

9

PROJECT NO: 4489-02-70

HWY: CTH G

COUNTY: CALUMET

EARTHWORK DATA

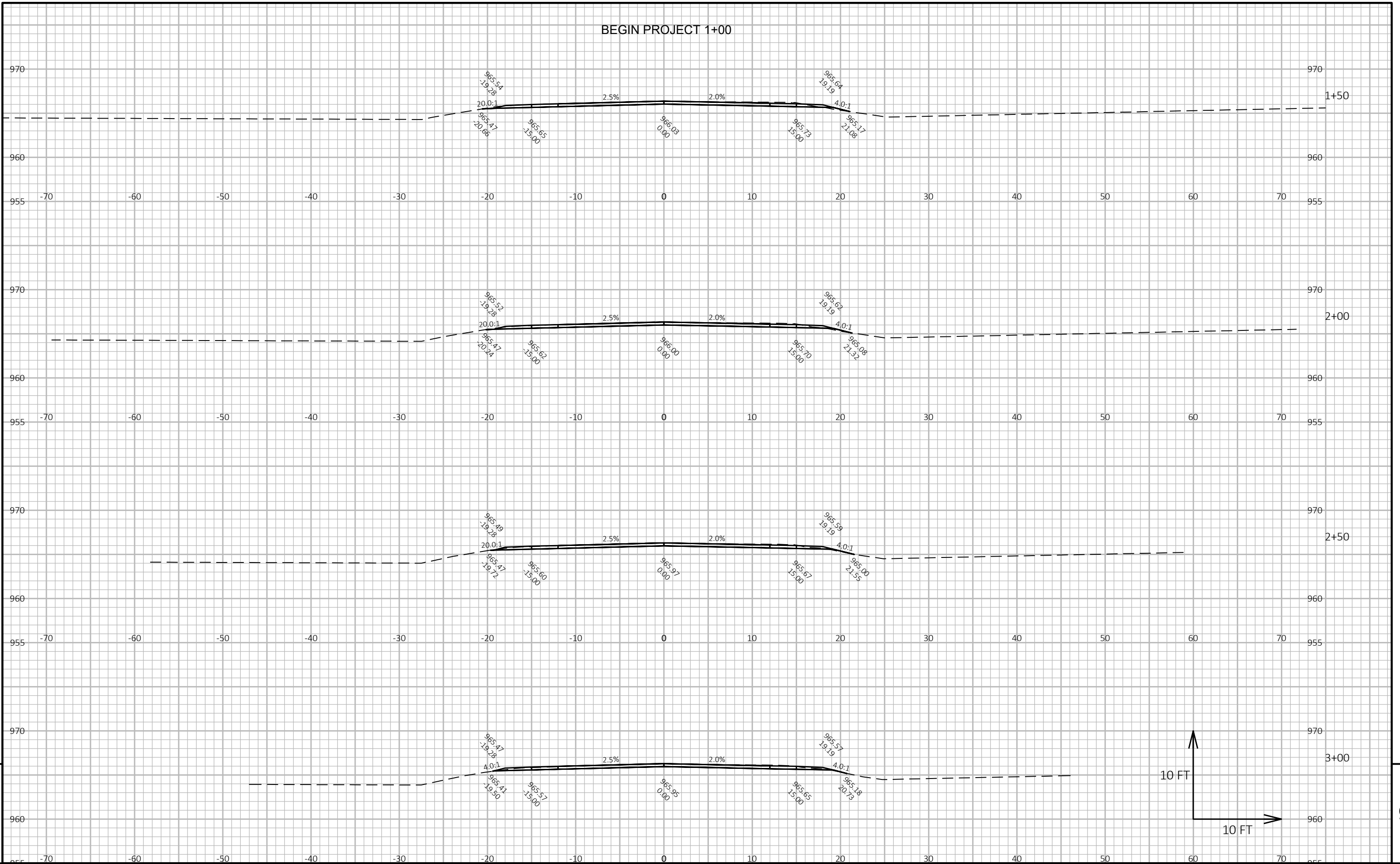
SHEET

E

CTH G											
STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL		MASS ORDINATE
									1.00	1.25	
NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 4		
90+50	50.00	14.83	0.00	0.00	26	0	0	6,380	295	5,349	
91+00	50.00	14.51	0.00	0.00	27	0	0	6,407	295	5,376	
91+50	50.00	12.07	0.00	0.00	25	0	0	6,432	295	5,401	
92+00	50.00	7.89	0.00	0.22	18	0	0	6,450	295	5,419	
92+50	50.00	4.18	0.00	0.81	11	0	1	6,461	296	5,429	
93+00	50.00	4.89	0.00	0.55	8	0	1	6,469	298	5,436	
93+50	50.00	5.29	0.00	0.40	9	0	1	6,478	299	5,443	
94+00	50.00	5.25	0.00	0.32	10	0	1	6,488	300	5,452	
94+50	50.00	4.77	0.00	0.30	9	0	1	6,497	301	5,460	
95+00	50.00	3.91	0.00	0.34	8	0	1	6,505	303	5,467	
95+50	50.00	3.41	0.00	0.46	7	0	1	6,512	304	5,472	
96+00	50.00	2.29	0.00	0.68	5	0	1	6,517	305	5,476	
96+50	50.00	1.33	0.00	0.98	3	0	2	6,520	308	5,477	
97+00	50.00	1.28	0.00	0.86	2	0	2	6,522	310	5,476	
97+50	50.00	2.06	0.00	0.42	3	0	1	6,525	311	5,478	
98+00	50.00	3.05	0.00	0.43	5	0	1	6,530	313	5,482	
98+50	50.00	3.31	0.00	1.07	6	0	1	6,536	314	5,486	
99+00	50.00	2.59	0.00	2.70	5	0	3	6,541	318	5,488	
99+50	50.00	3.32	0.00	0.29	5	0	3	6,546	321	5,489	
100+00	50.00	6.02	0.00	0.00	9	0	0	6,555	321	5,498	
100+50	50.00	11.48	0.00	0.01	16	0	0	6,571	321	5,514	
101+00	50.00	9.44	0.00	0.00	19	0	0	6,590	321	5,533	
101+50	50.00	8.33	0.00	0.01	16	0	0	6,606	321	5,549	
102+00	50.00	6.10	0.00	0.00	13	0	0	6,619	321	5,562	
102+50	50.00	4.56	0.00	0.00	10	0	0	6,629	321	5,572	
103+00	50.00	5.22	0.00	0.00	9	0	0	6,638	321	5,581	
103+50	50.00	5.75	0.00	0.00	10	0	0	6,648	321	5,591	
104+00	50.00	4.26	0.00	0.29	9	0	0	6,657	321	5,600	
104+50	50.00	3.12	0.00	0.56	7	0	1	6,664	323	5,606	
105+00	50.00	2.65	0.00	0.74	5	0	1	6,669	324	5,609	
105+50	50.00	1.51	0.00	1.99	4	0	3	6,673	328	5,610	
106+00	50.00	1.19	0.00	3.28	2	0	5	6,675	334	5,605	
106+50	50.00	2.61	0.00	2.35	4	0	5	6,679	340	5,603	
107+00	50.00	7.59	0.00	0.24	9	0	2	6,688	343	5,610	
107+50	50.00	12.89	0.00	0.00	19	0	0	6,707	343	5,629	
108+00	50.00	14.12	0.00	0.00	25	0	0	6,732	343	5,654	
108+50	50.00	12.48	0.00	0.00	25	0	0	6,757	343	5,679	
109+00	50.00	0.00	0.00	0.00	12	0	0	6,769	343	5,691	

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

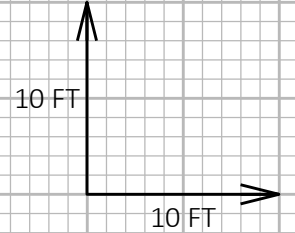
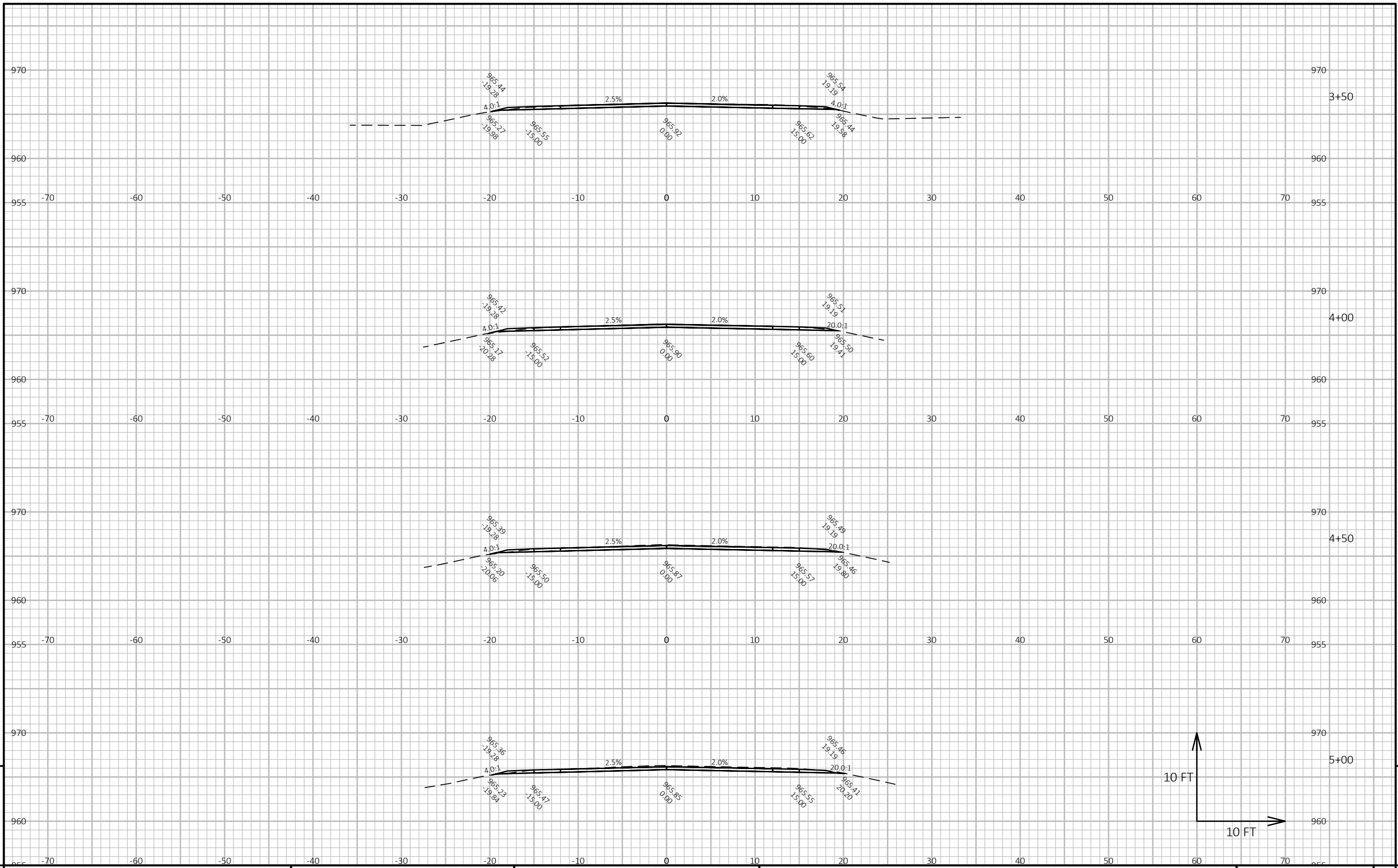
BEGIN PROJECT 1+00



9

9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---



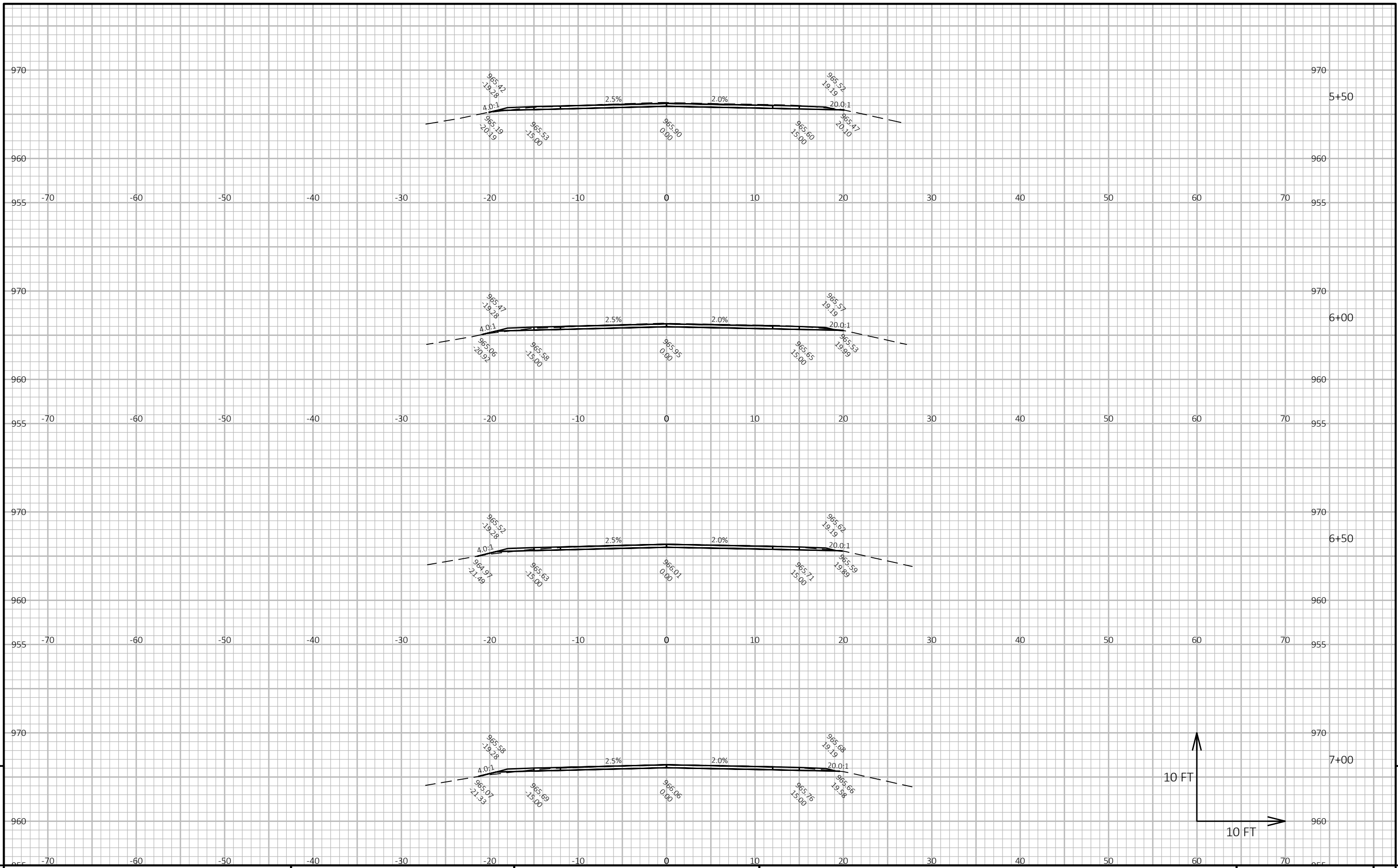
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

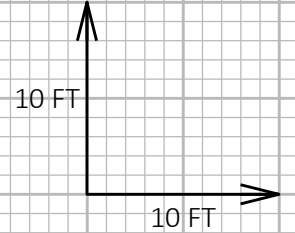
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:17 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 02



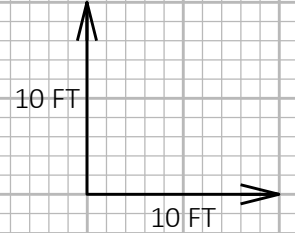
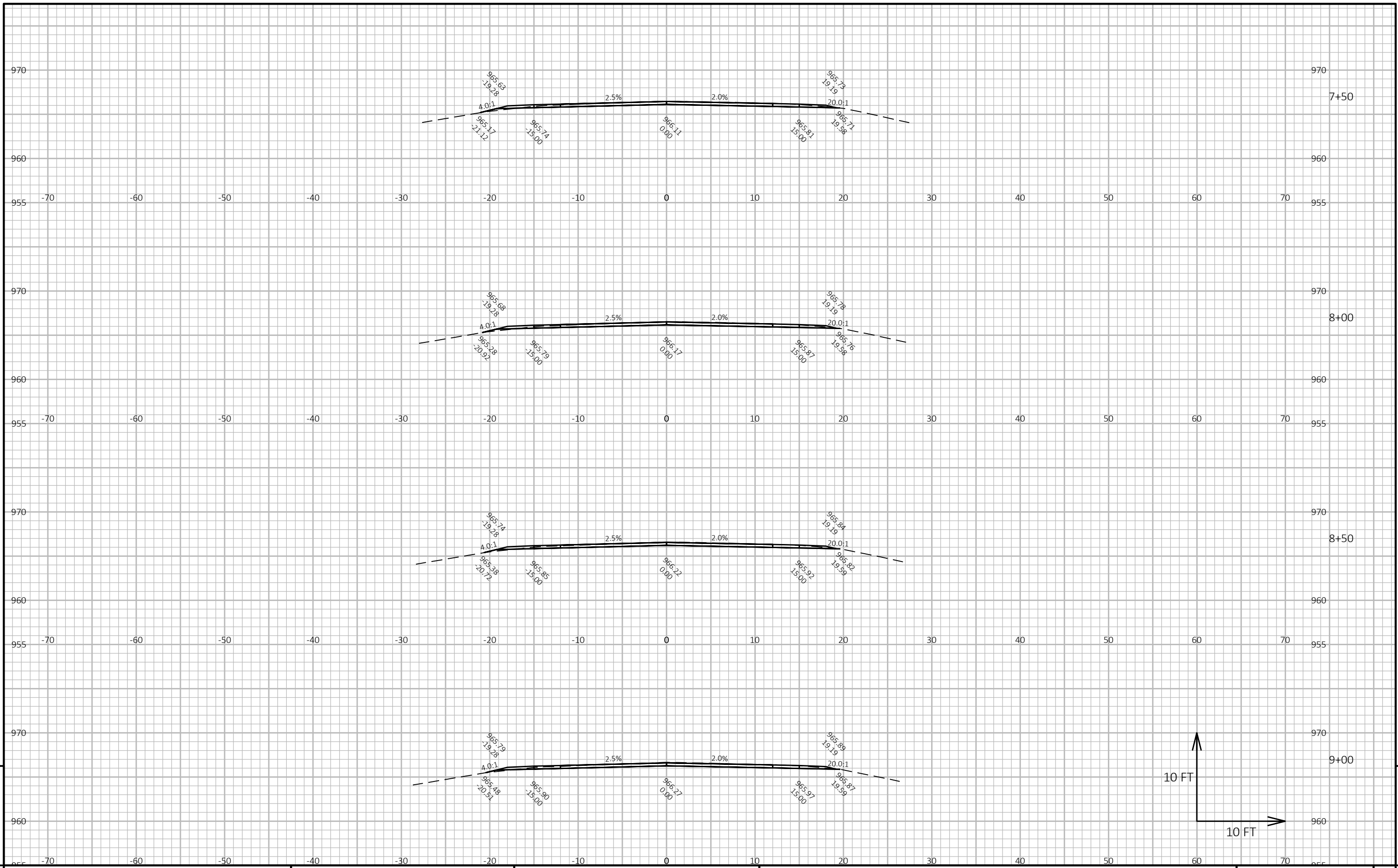
9

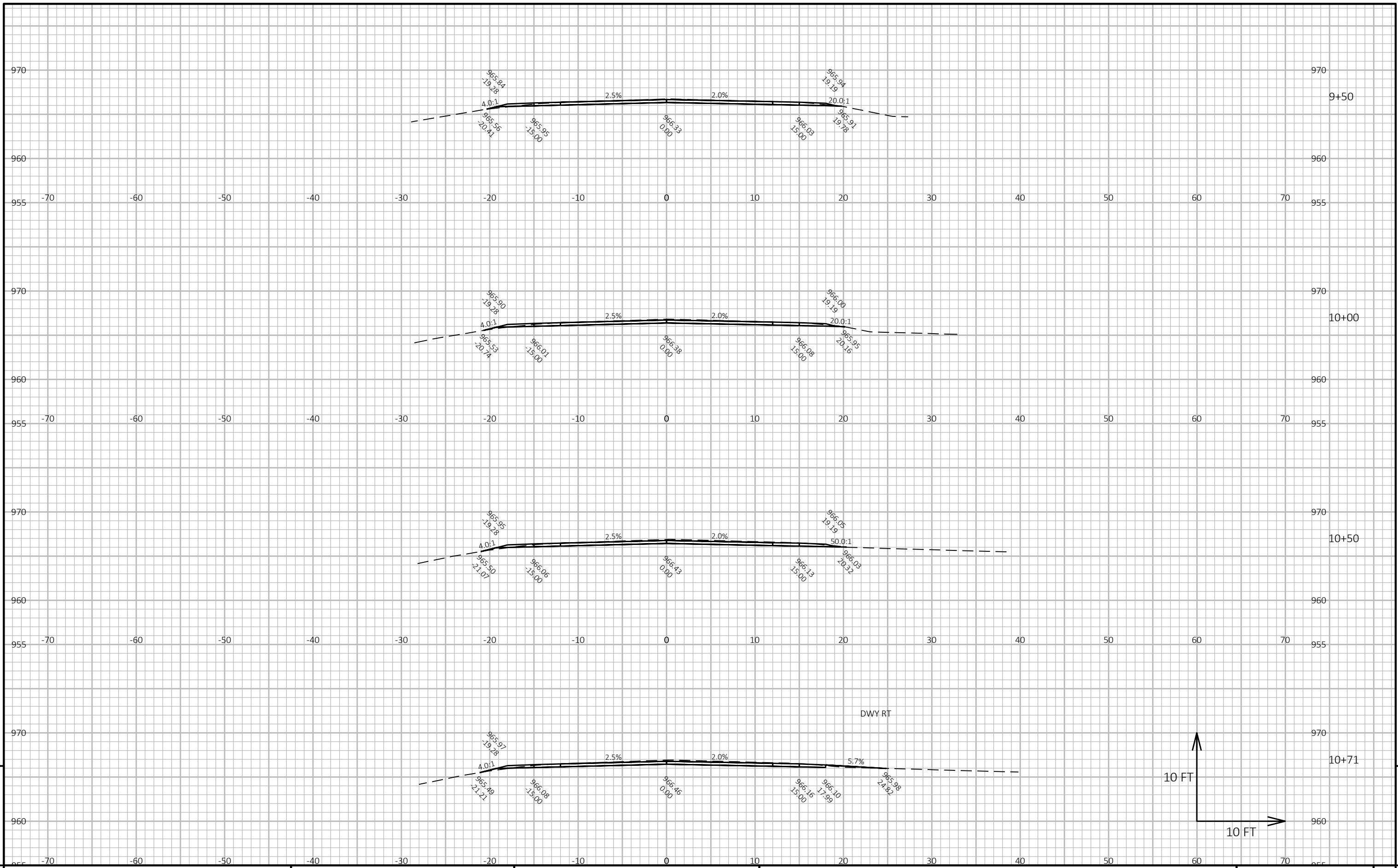
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:17 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

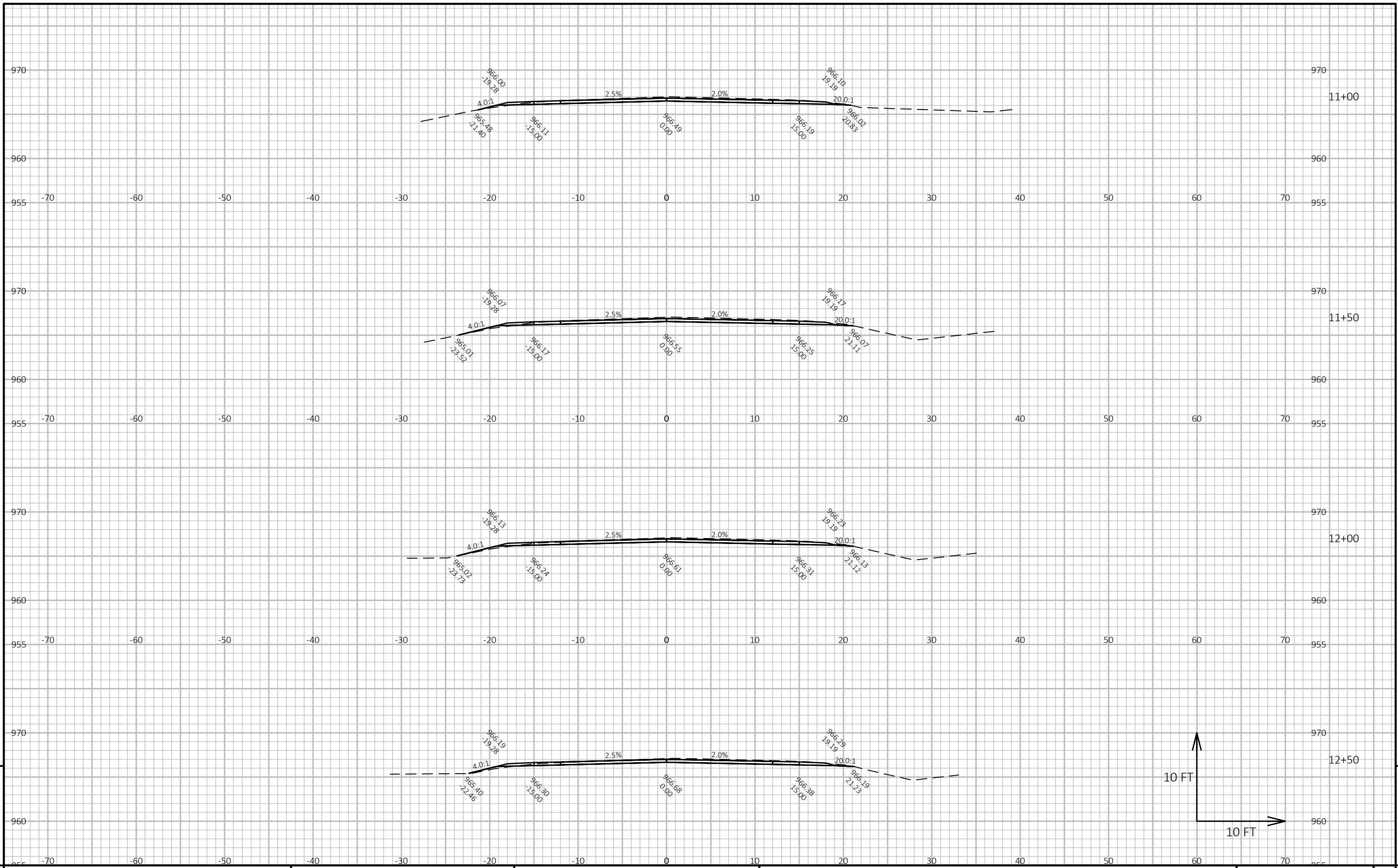




9

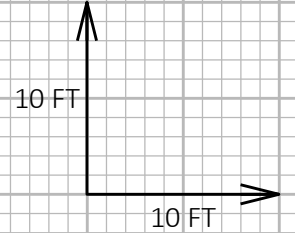
9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---



9

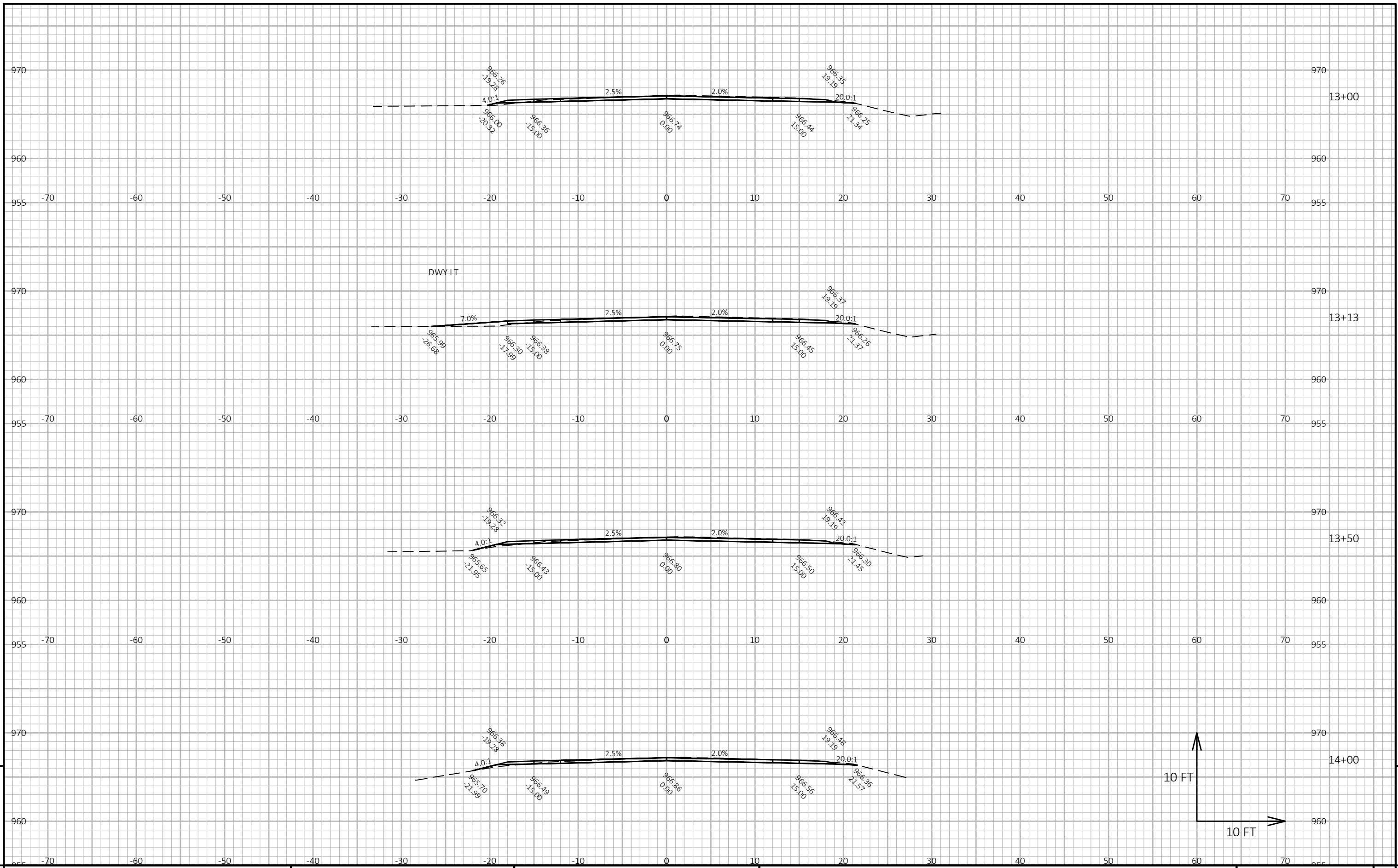
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:17 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 06



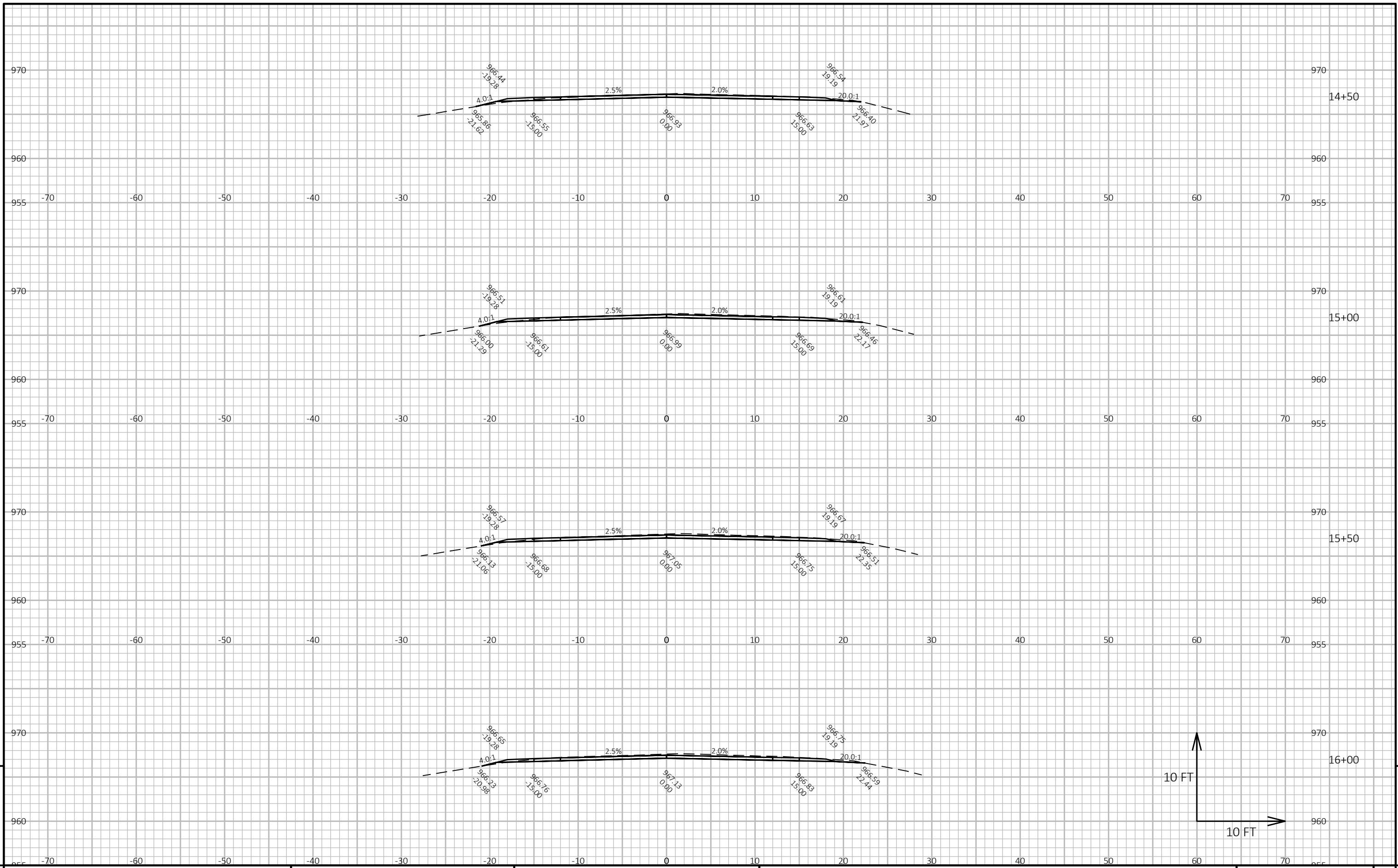
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:17 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 07

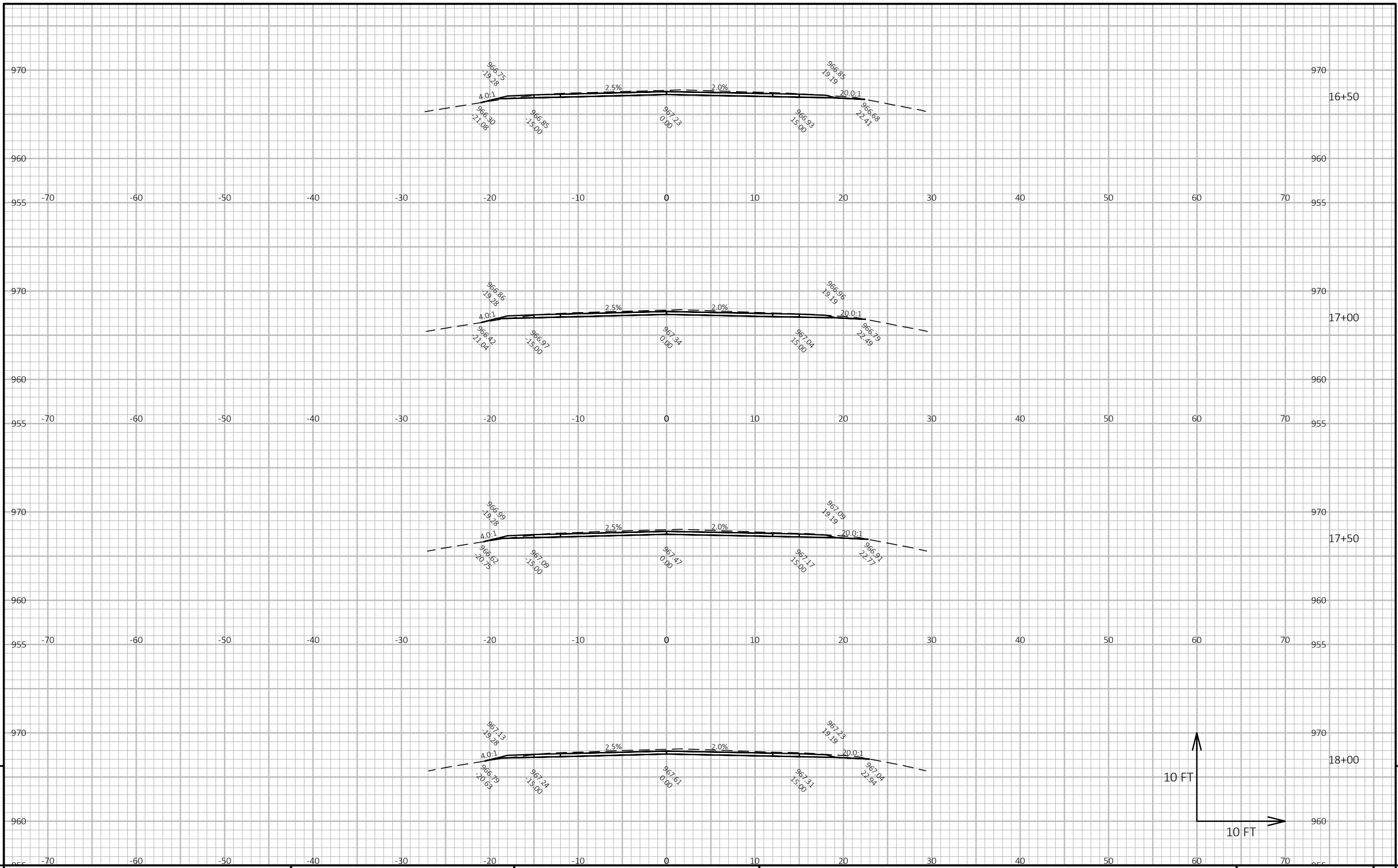


9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:17 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

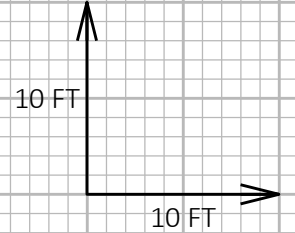


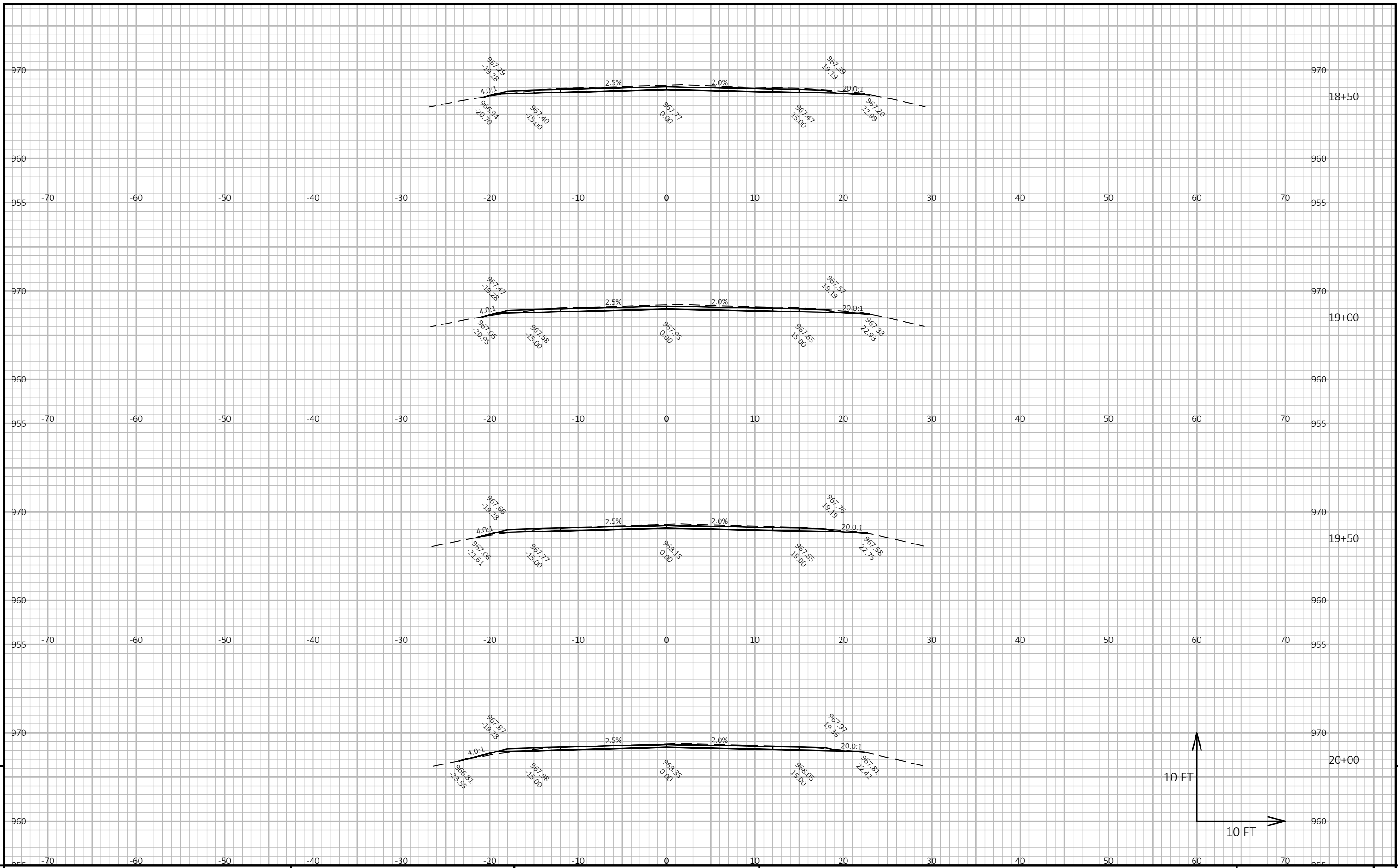
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

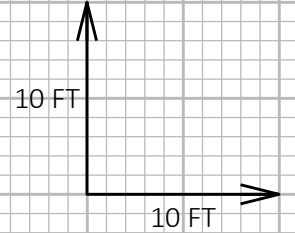
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49





9

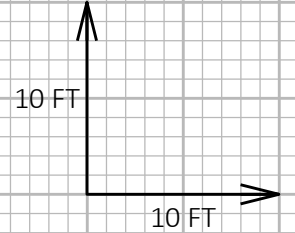
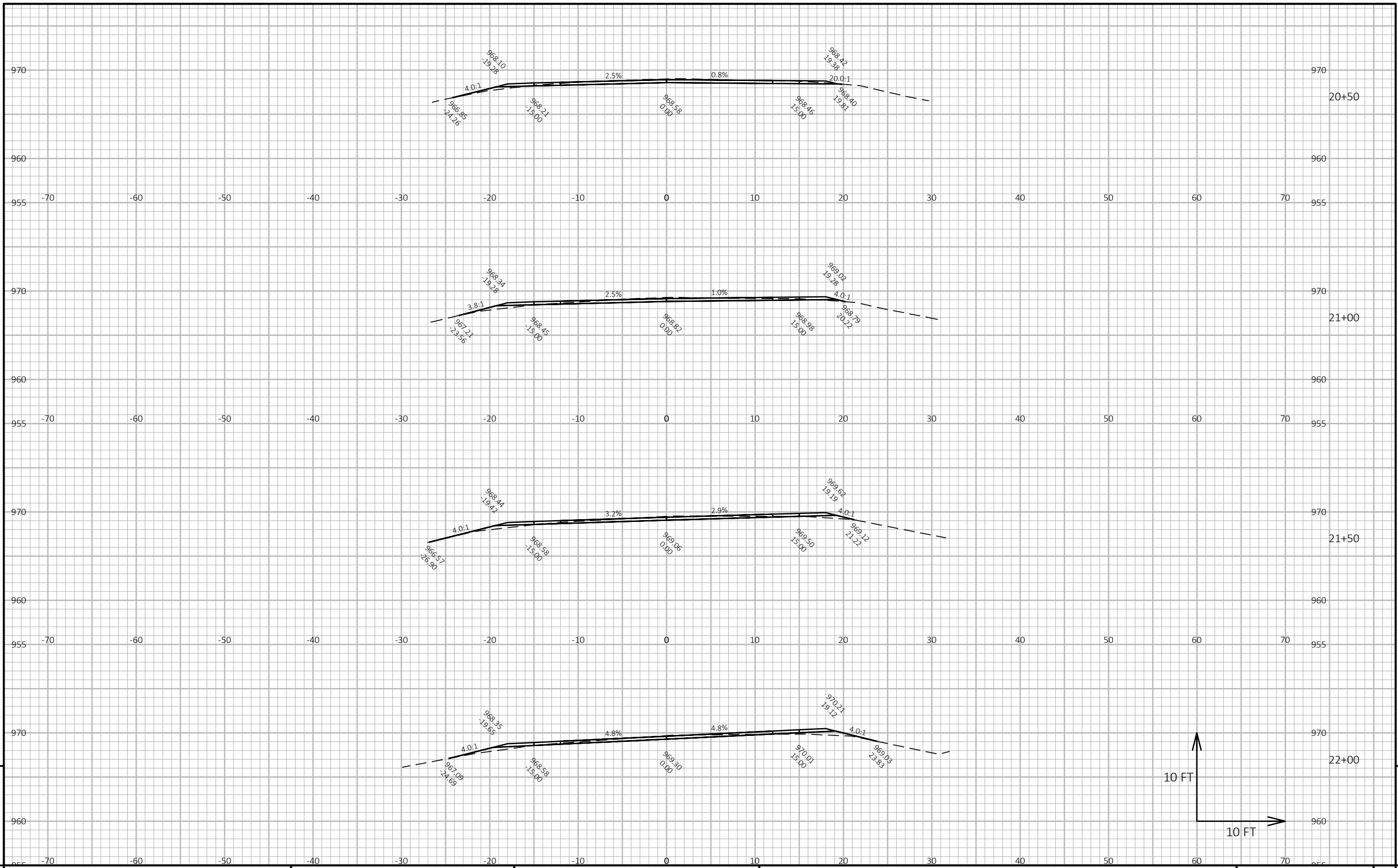
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 10



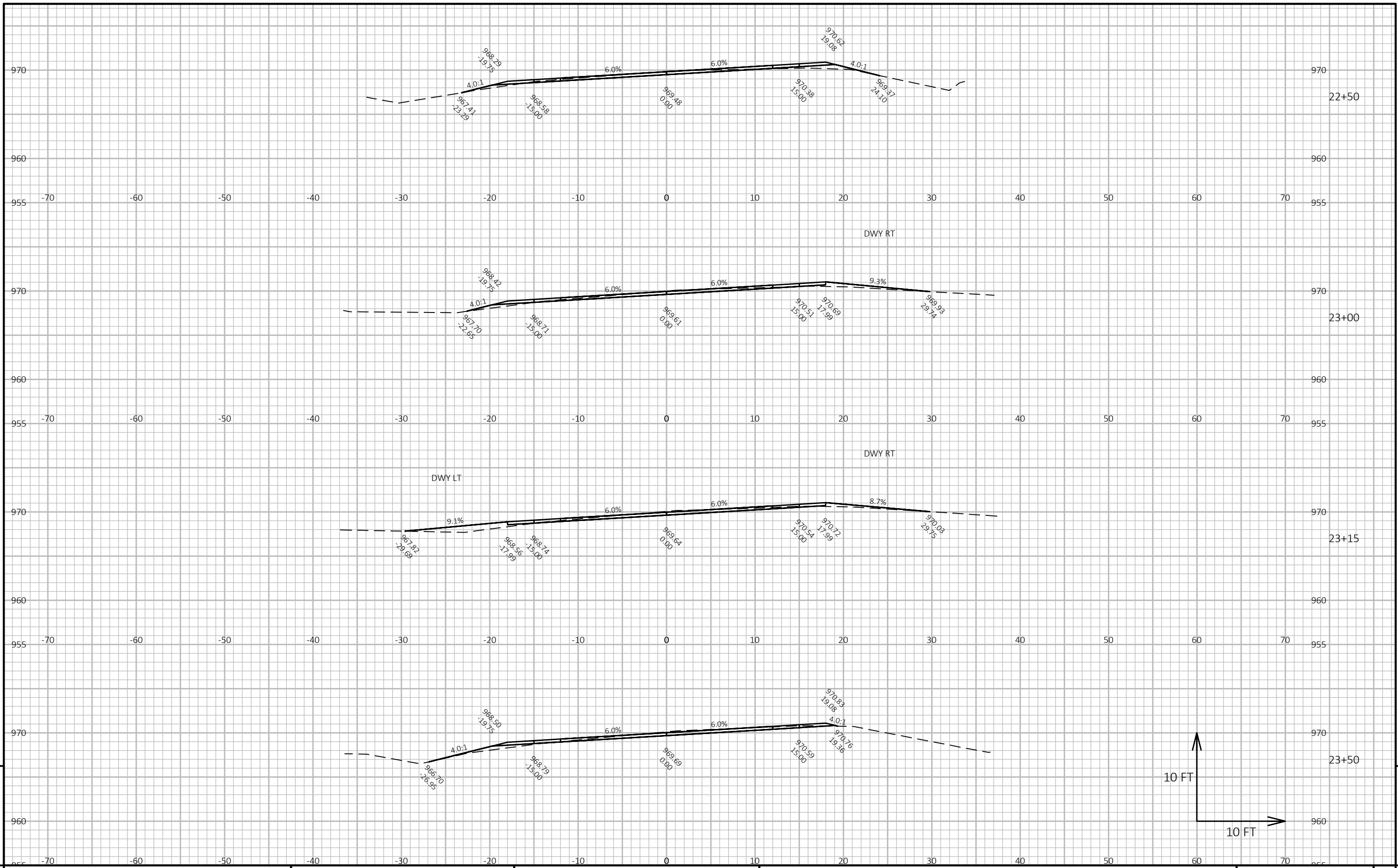
9

9

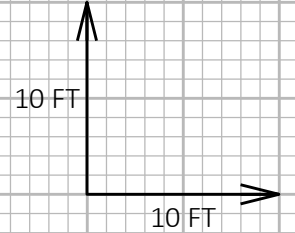
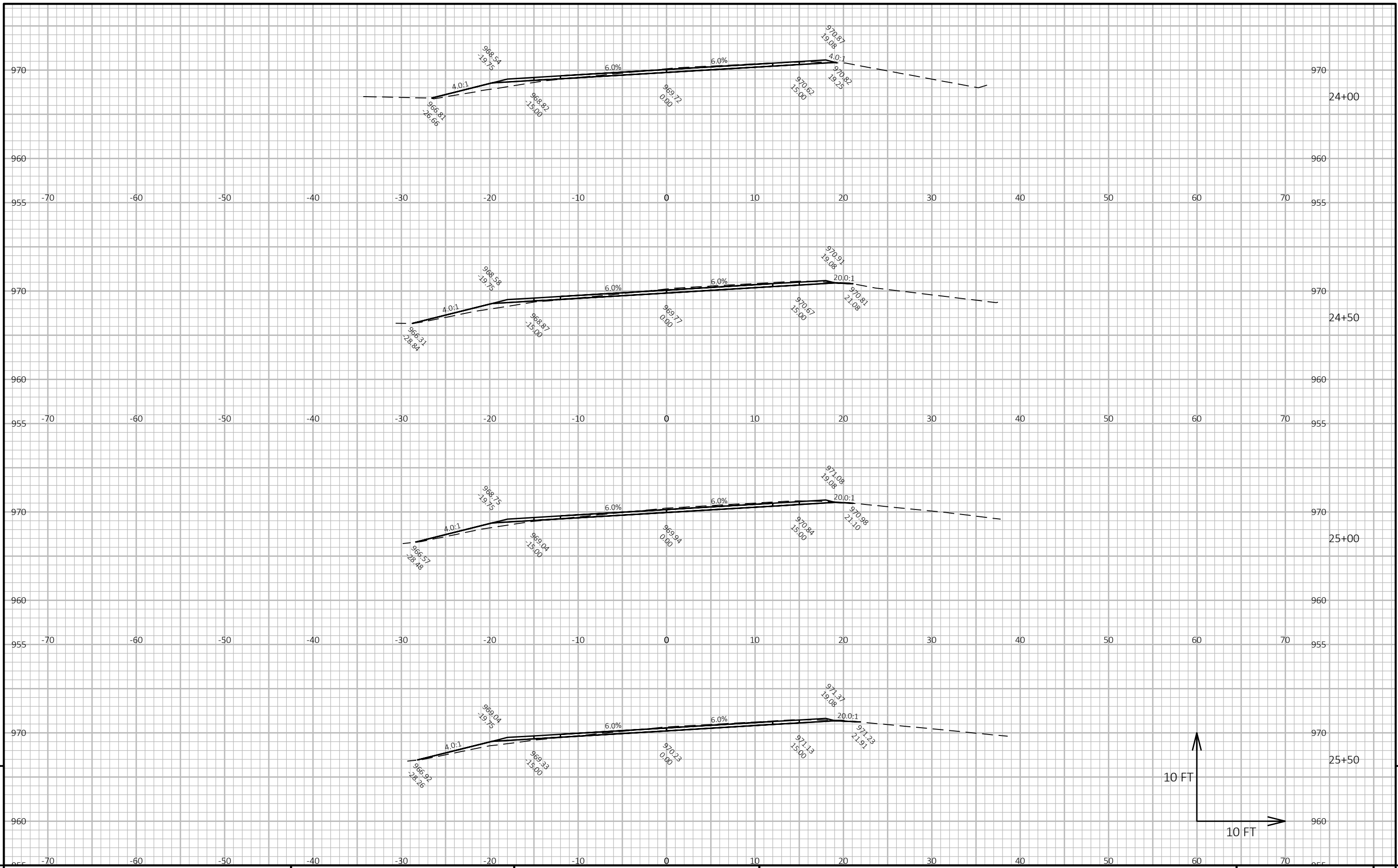
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

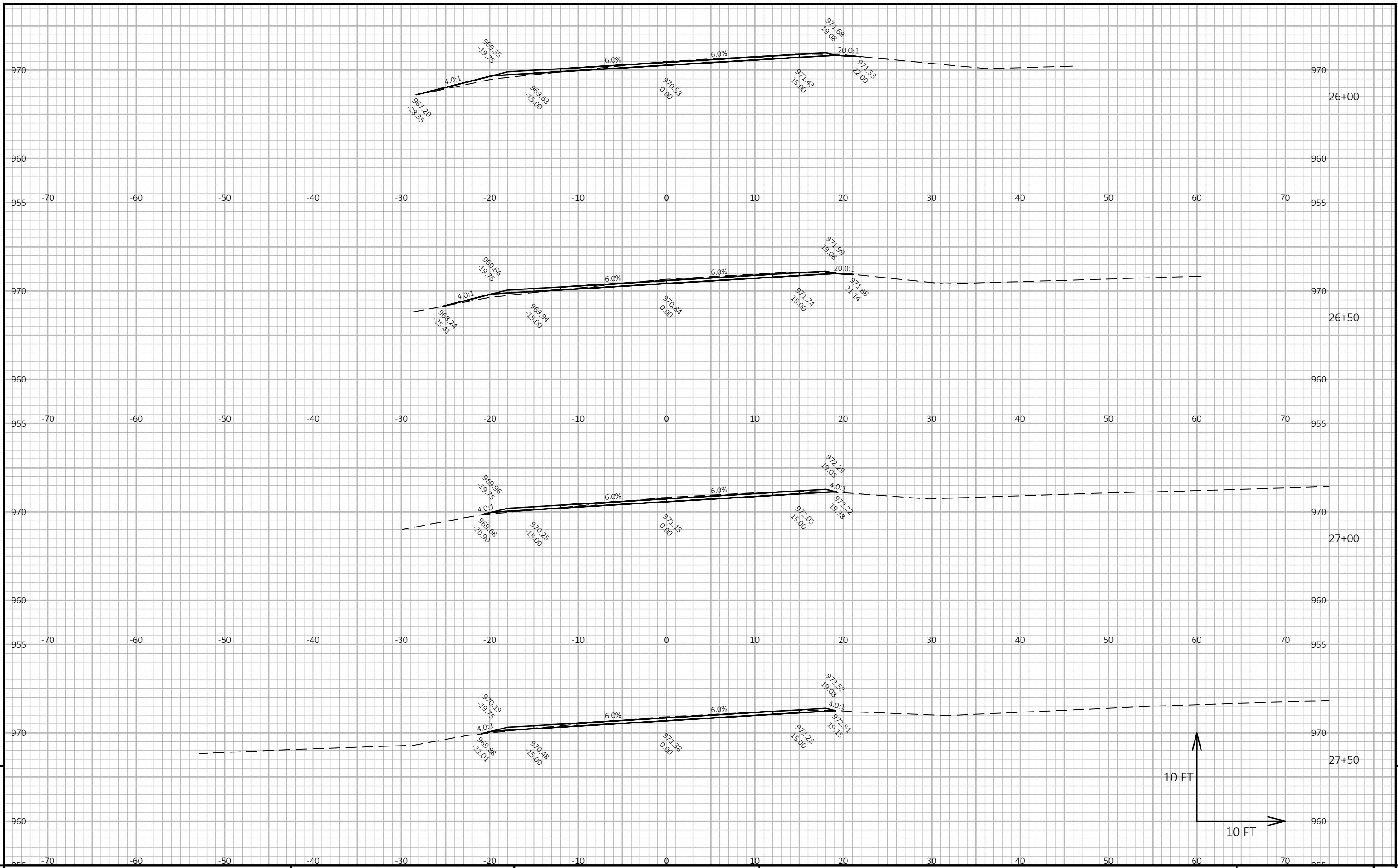
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 11



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E





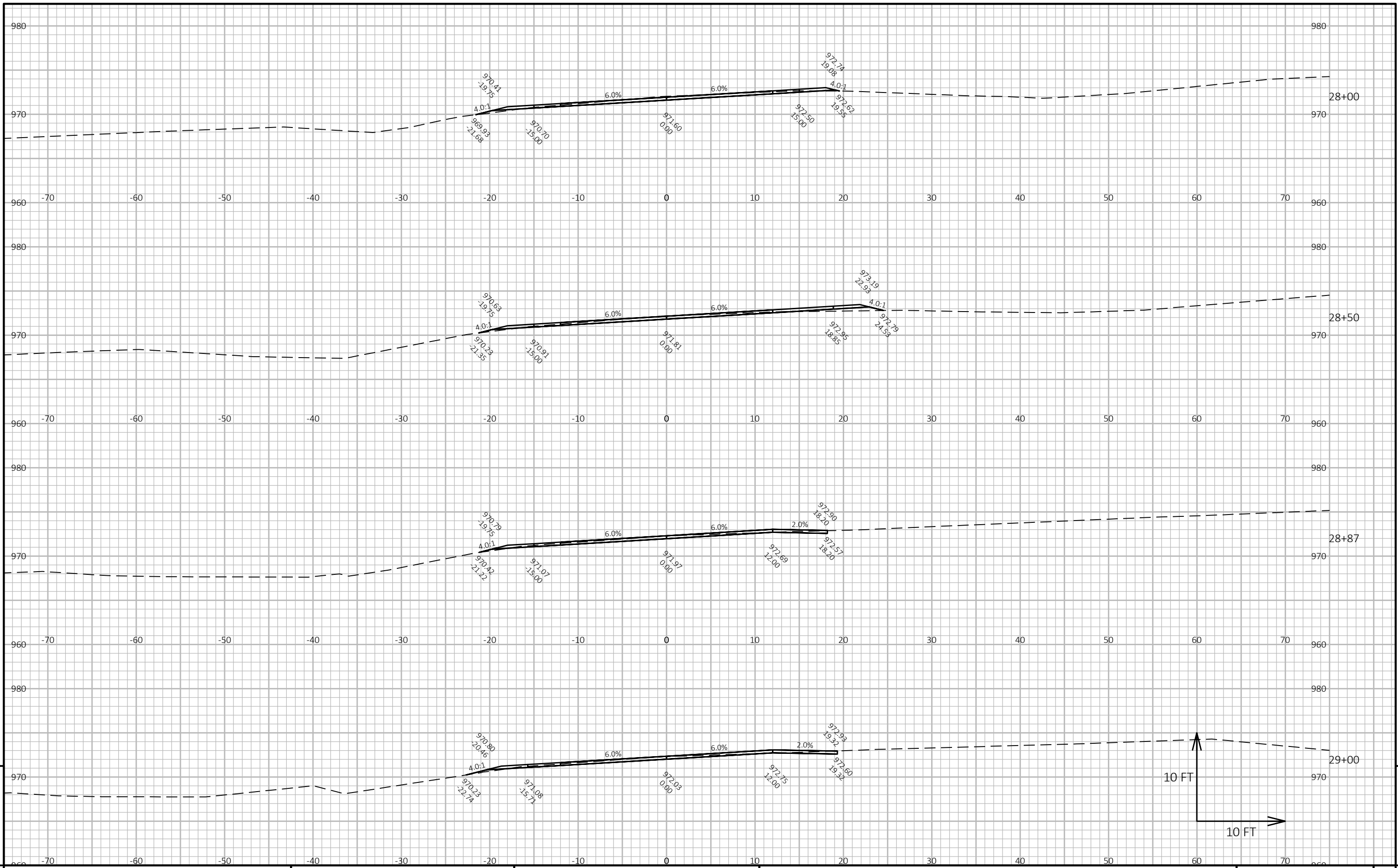
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 14



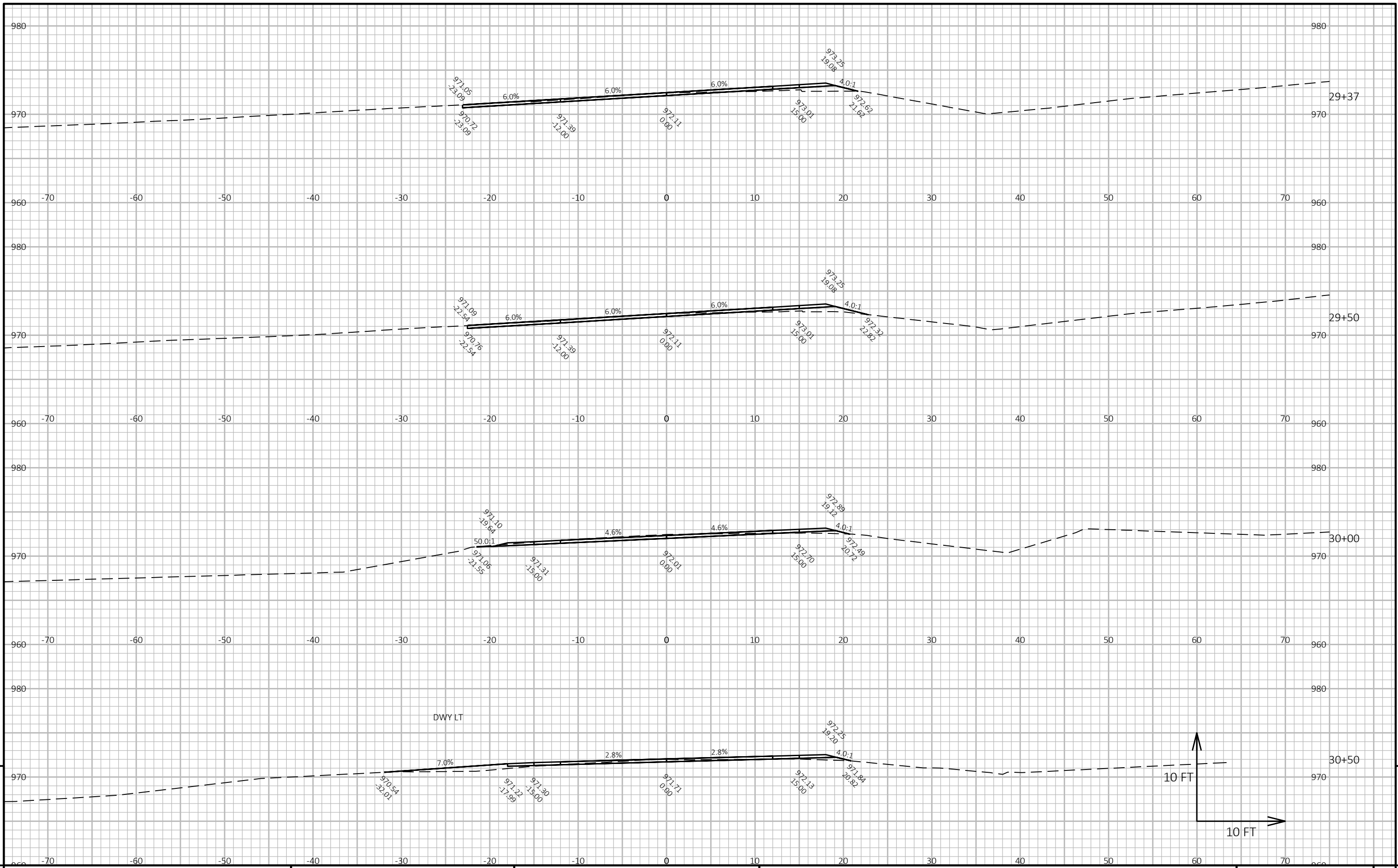
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 15



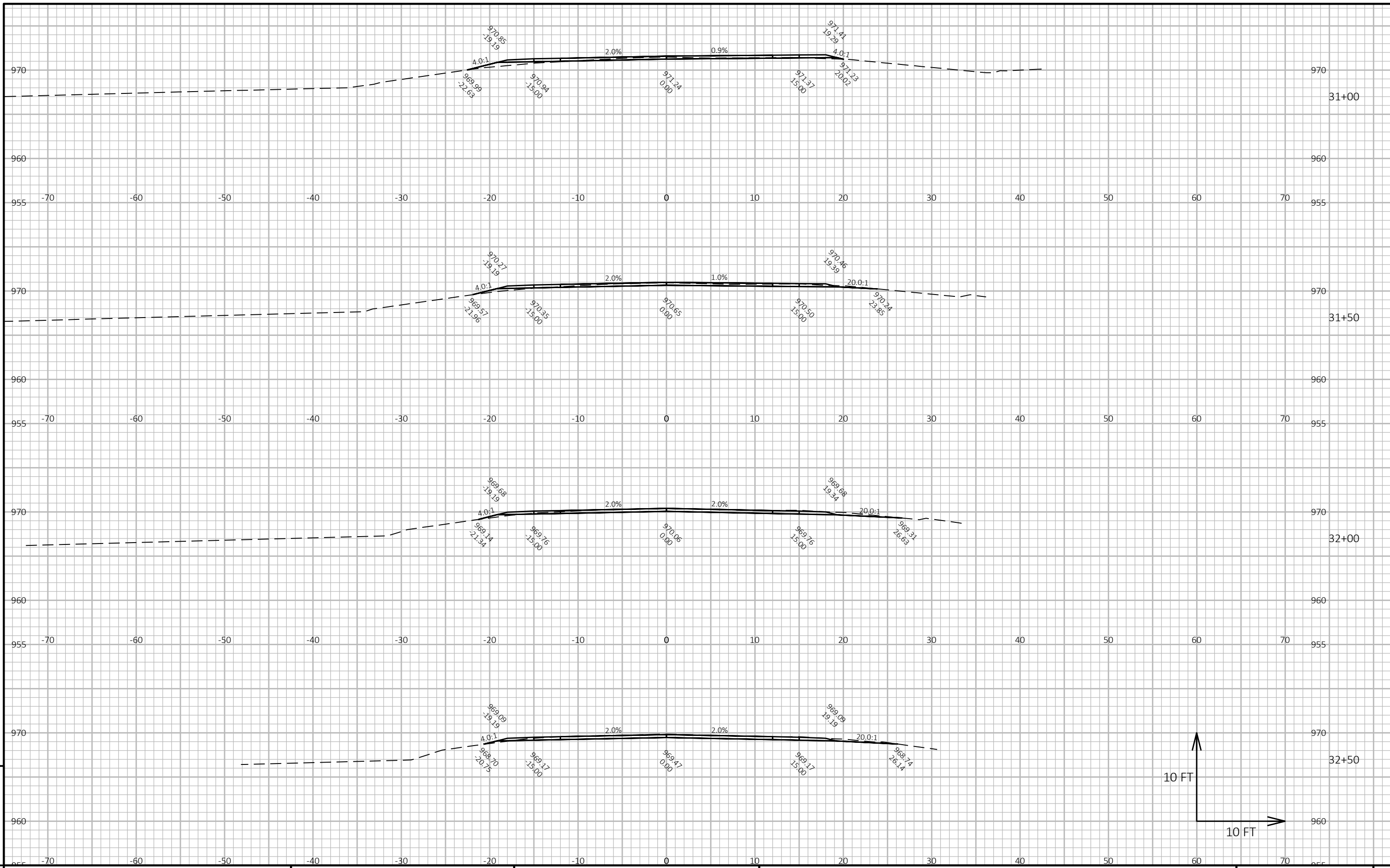
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

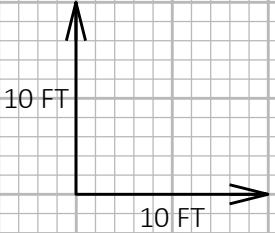
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 16



9

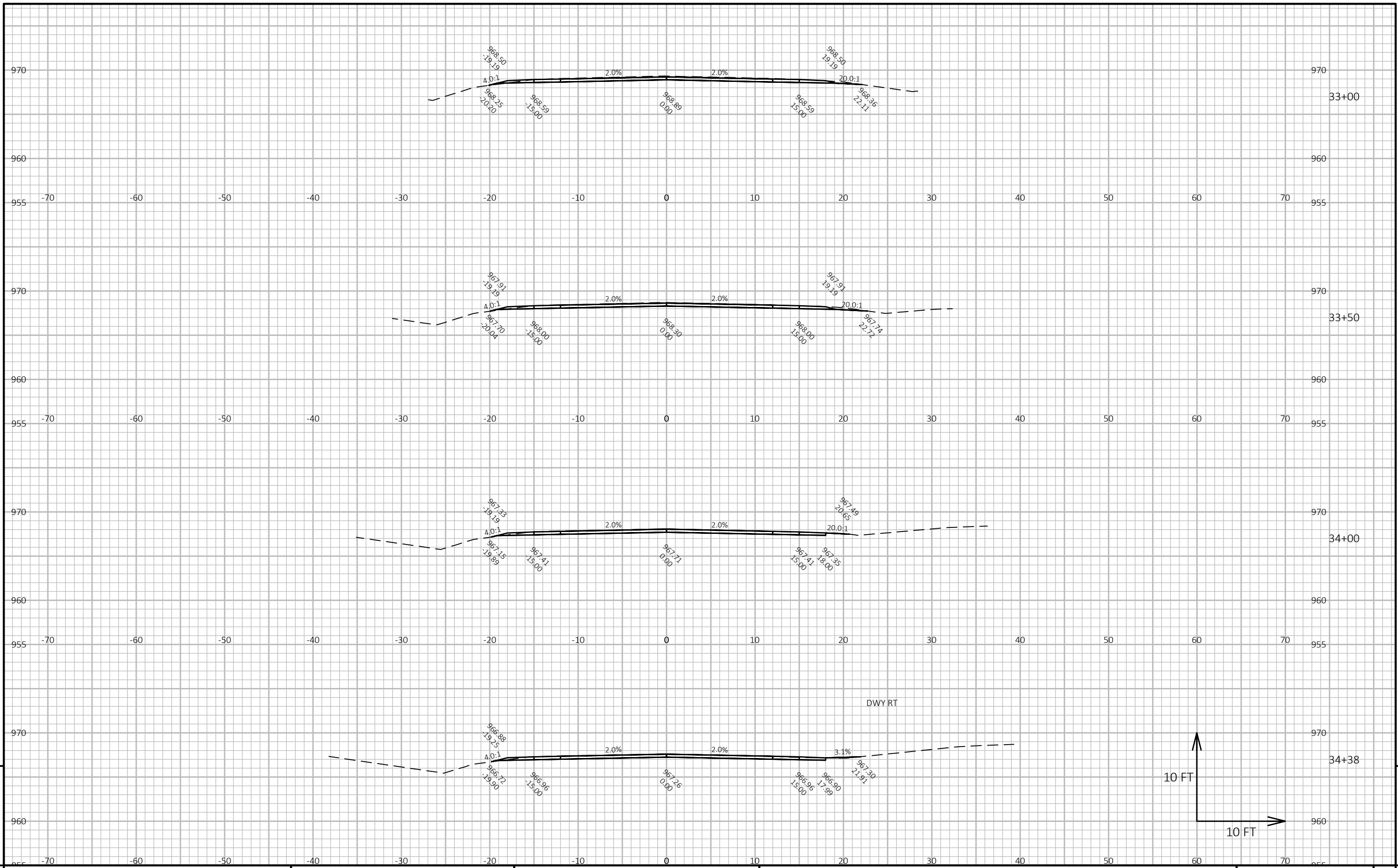
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 17



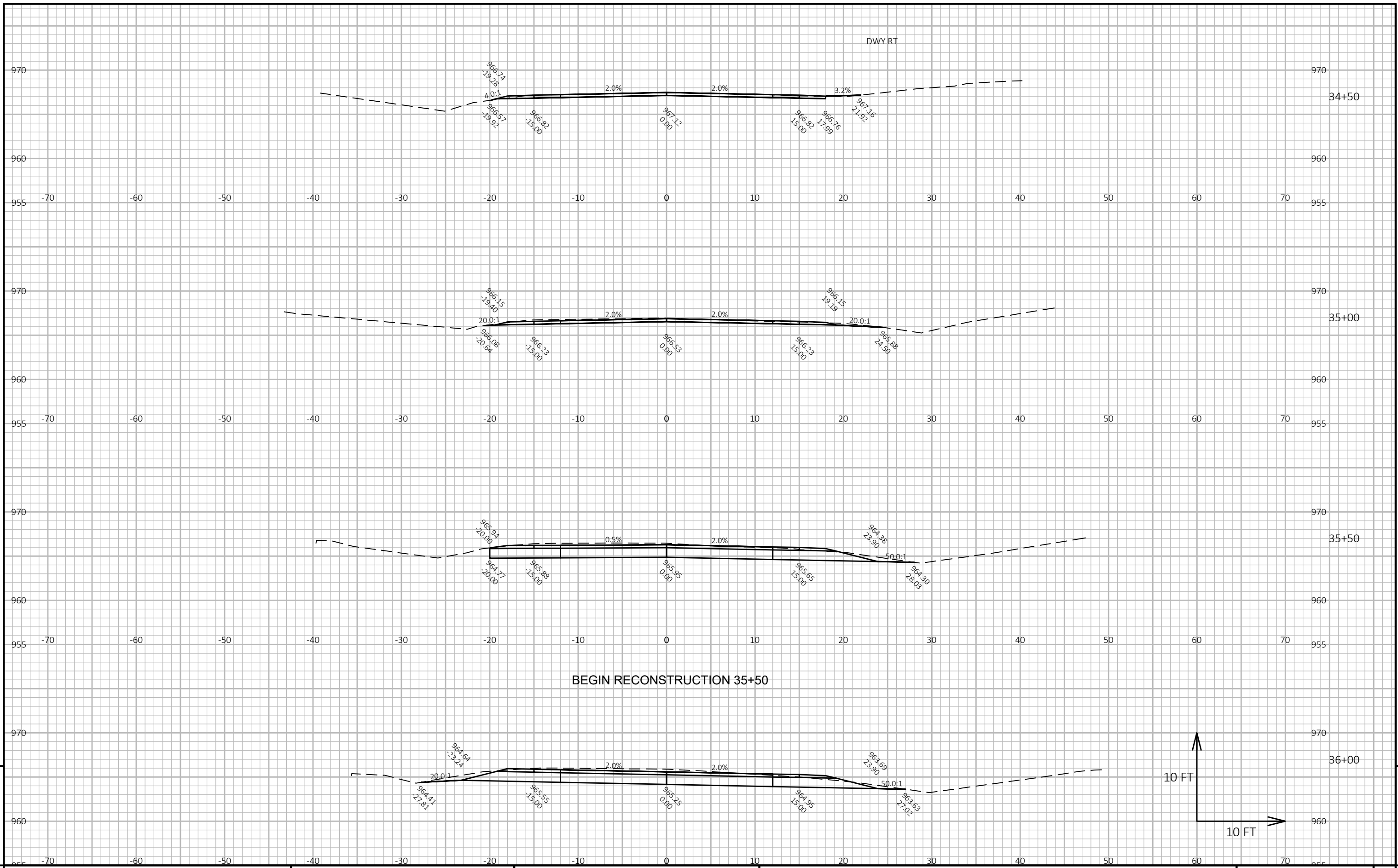
9

9

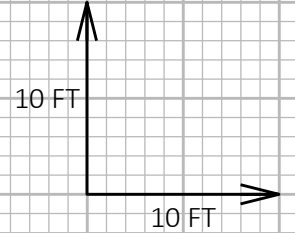
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

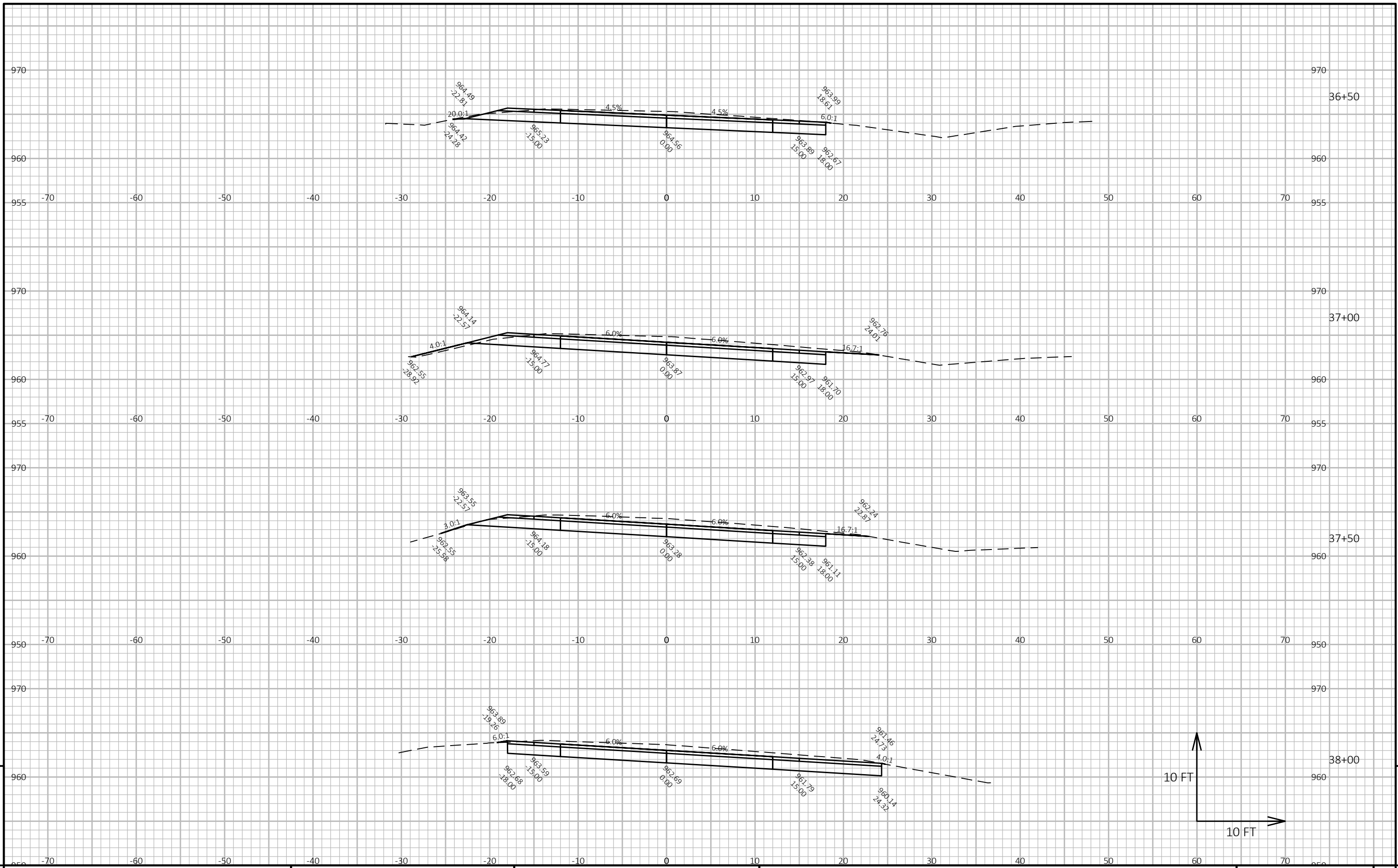
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 18



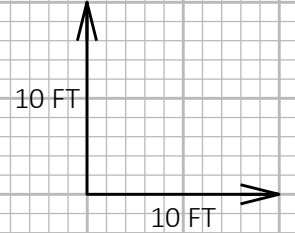
BEGIN RECONSTRUCTION 35+50





9

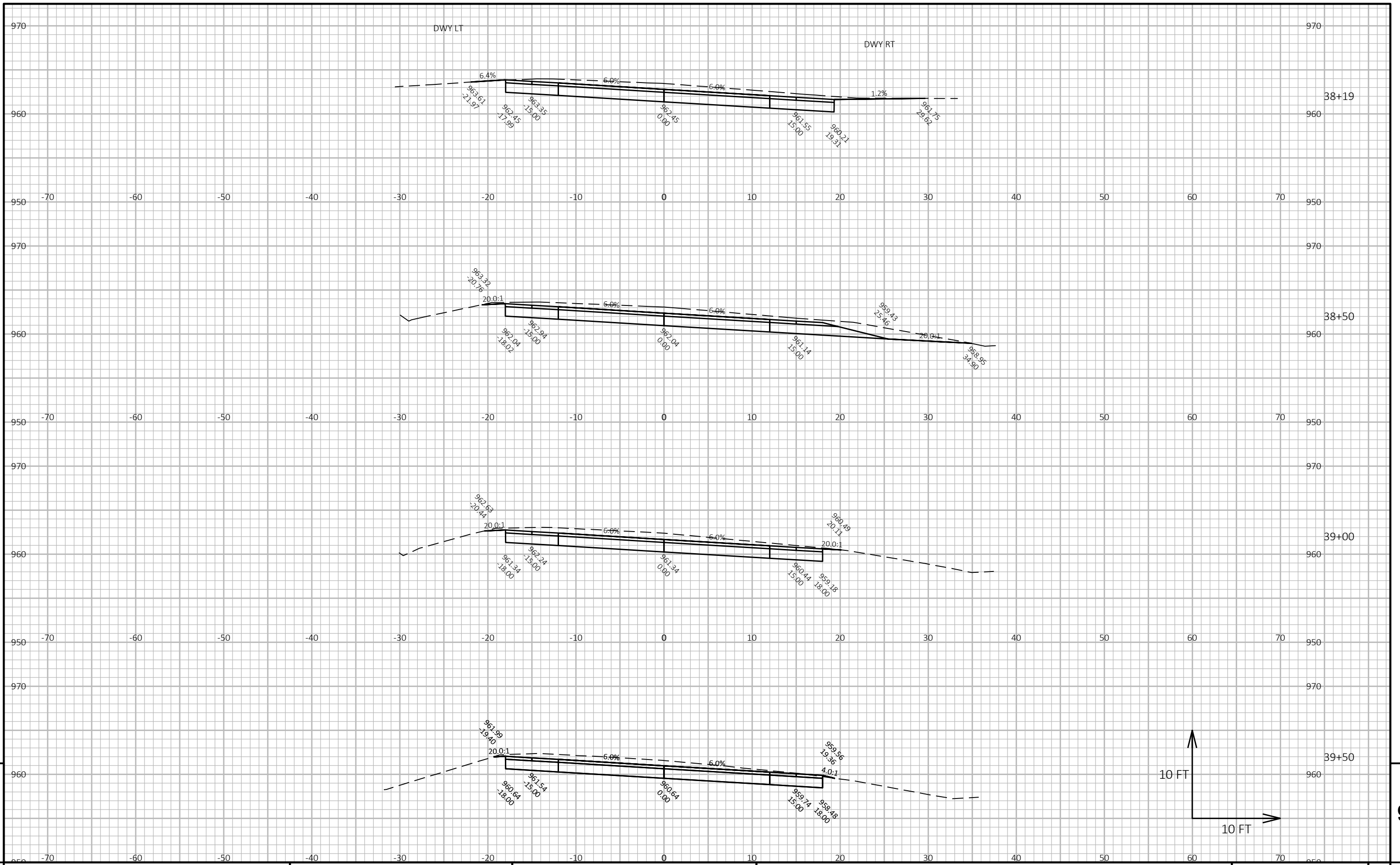
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 20



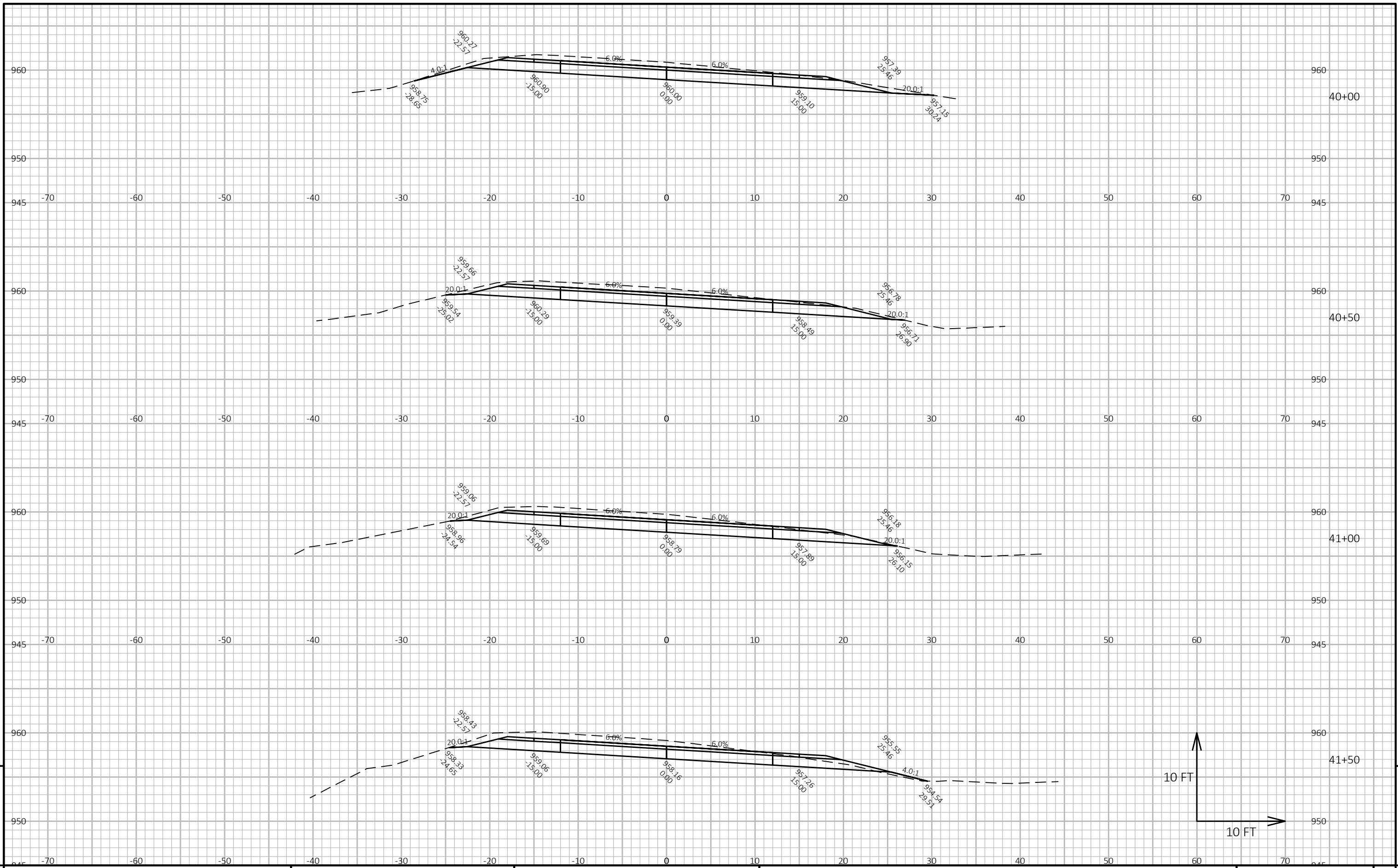
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADDs SHEET 49

LAYOUT NAME - 21



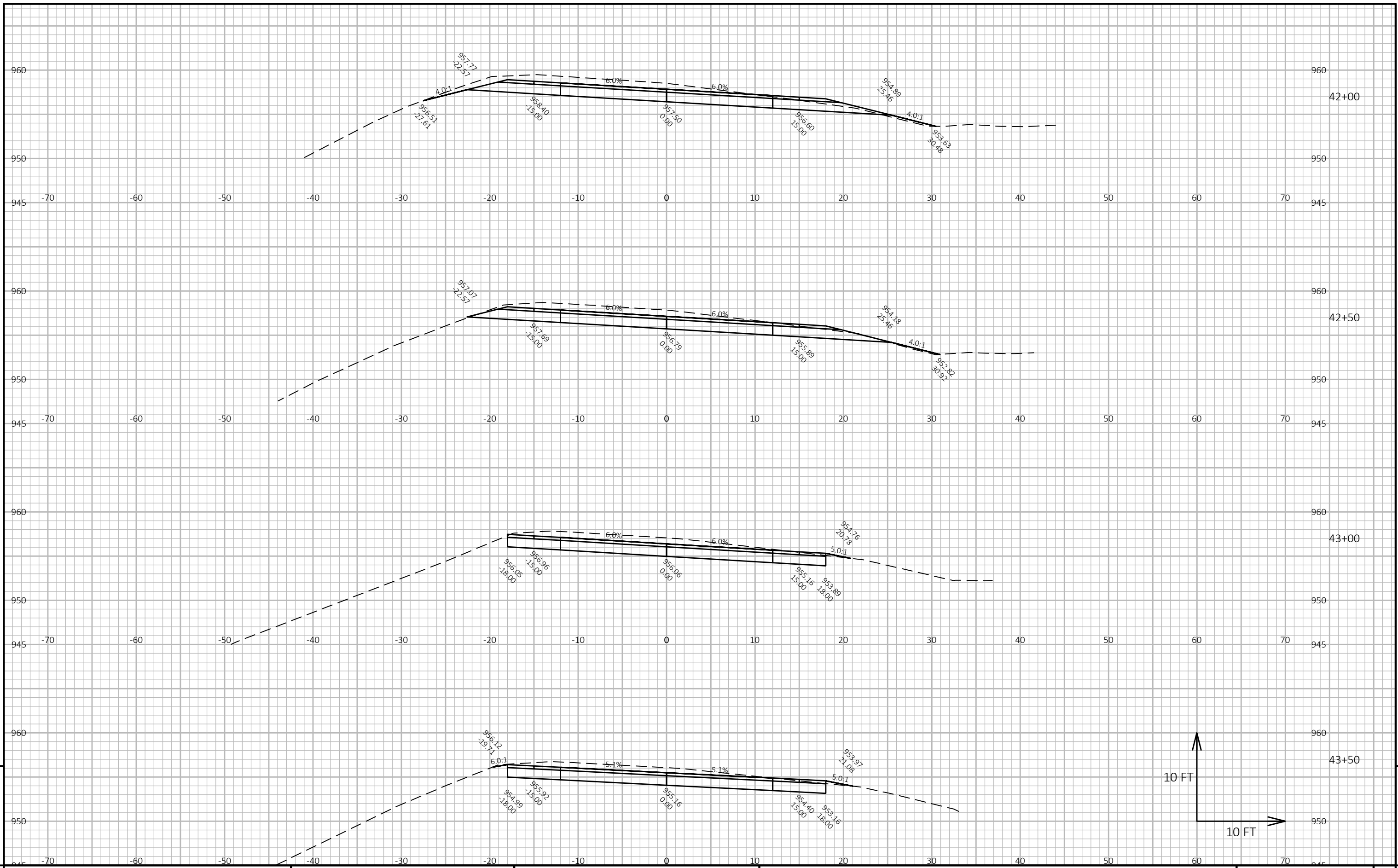
9

9

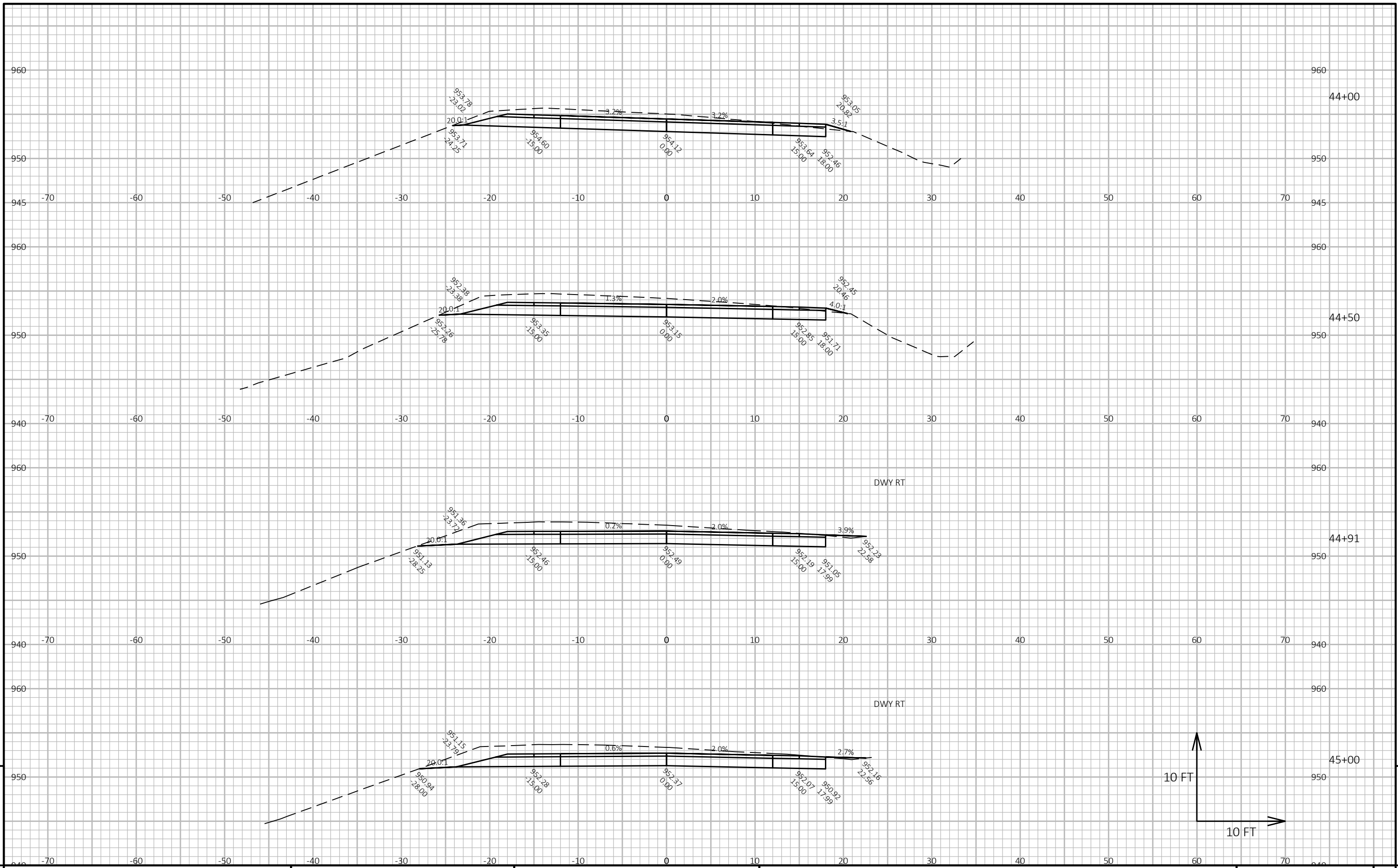
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME: X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE: 7/8/2022 12:18 PM PLOT BY: KEVIN LOHFF PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 22



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E



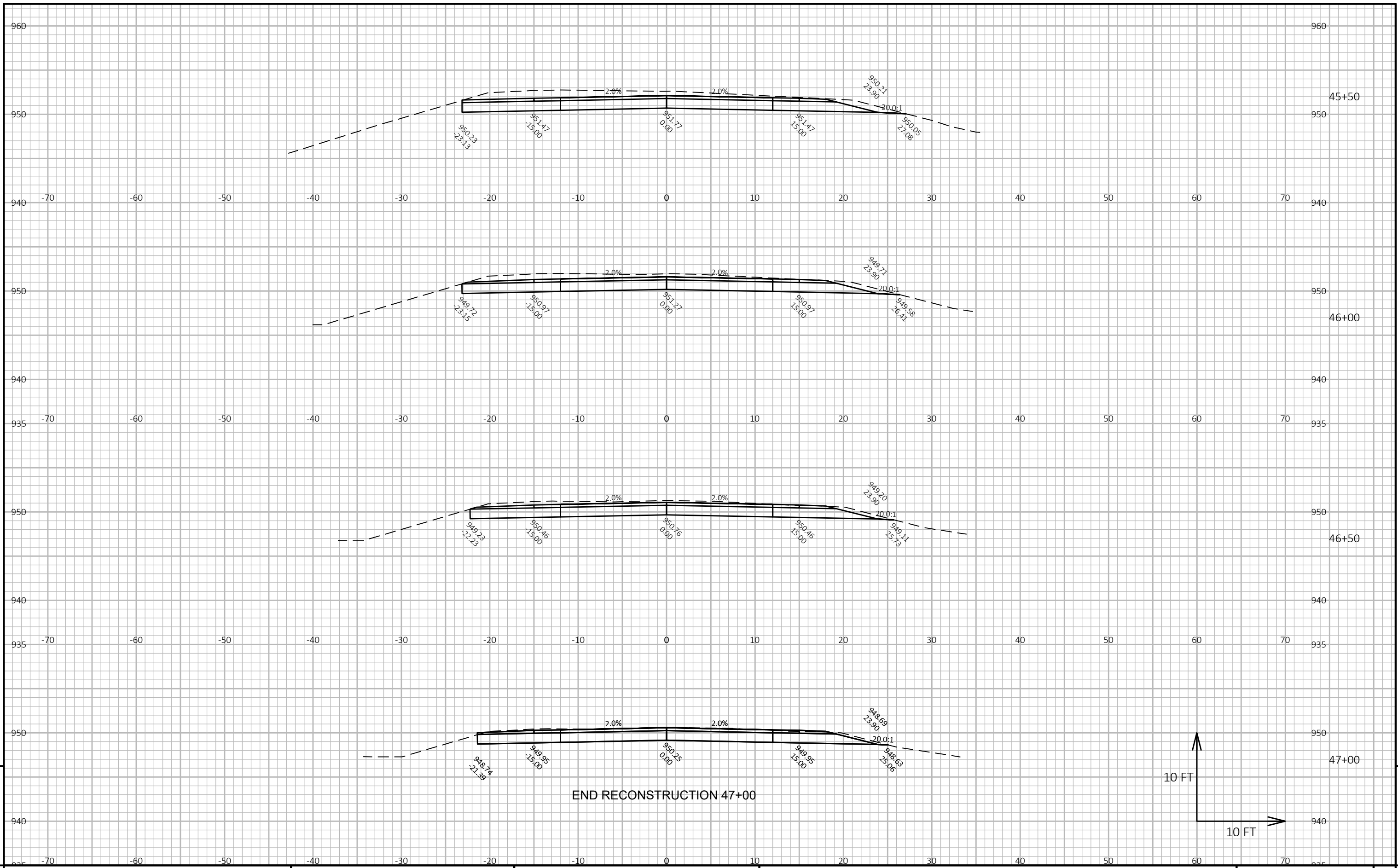
9

9

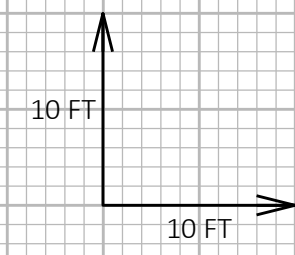
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:18 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 24



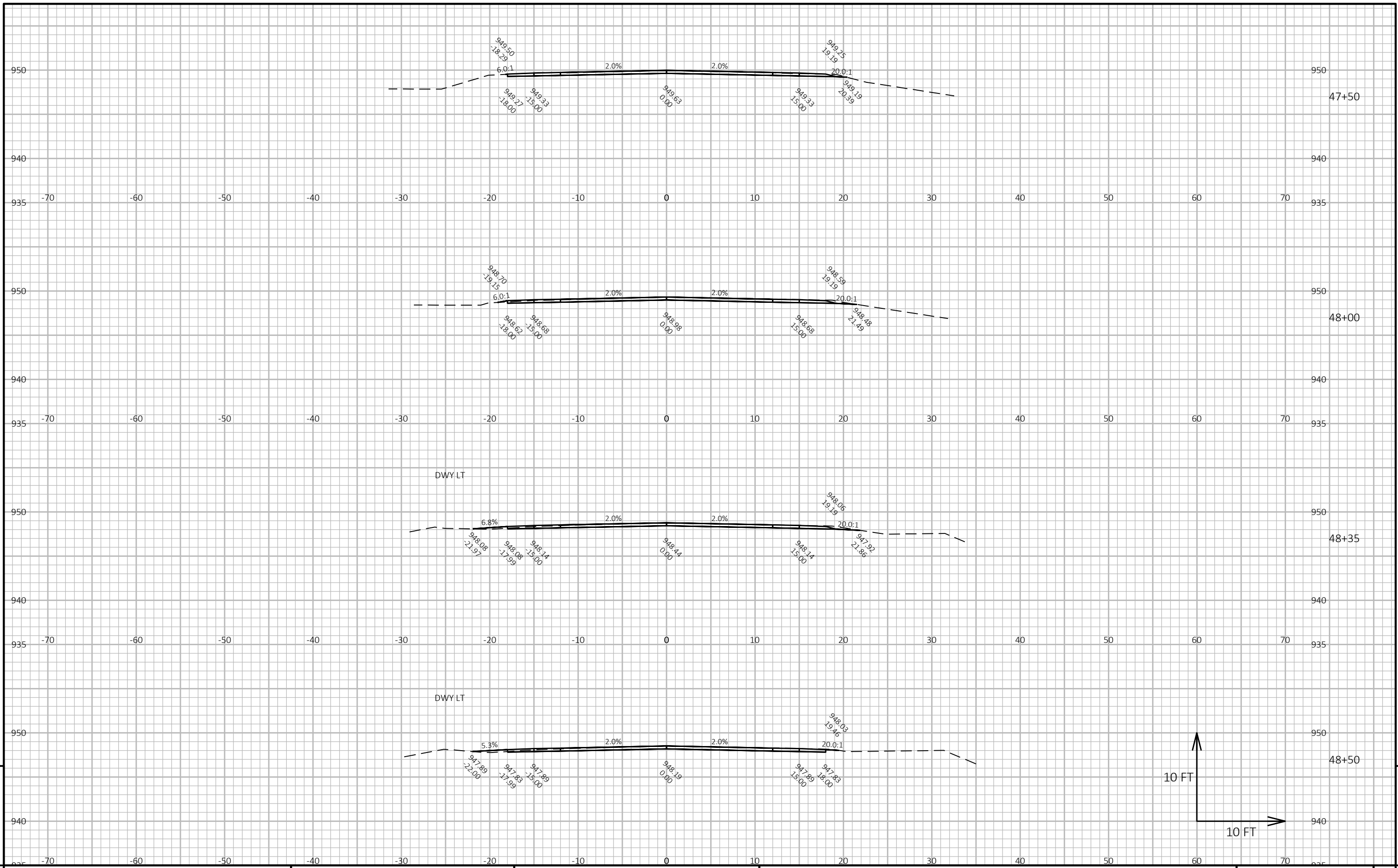
END RECONSTRUCTION 47+00



9

9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---



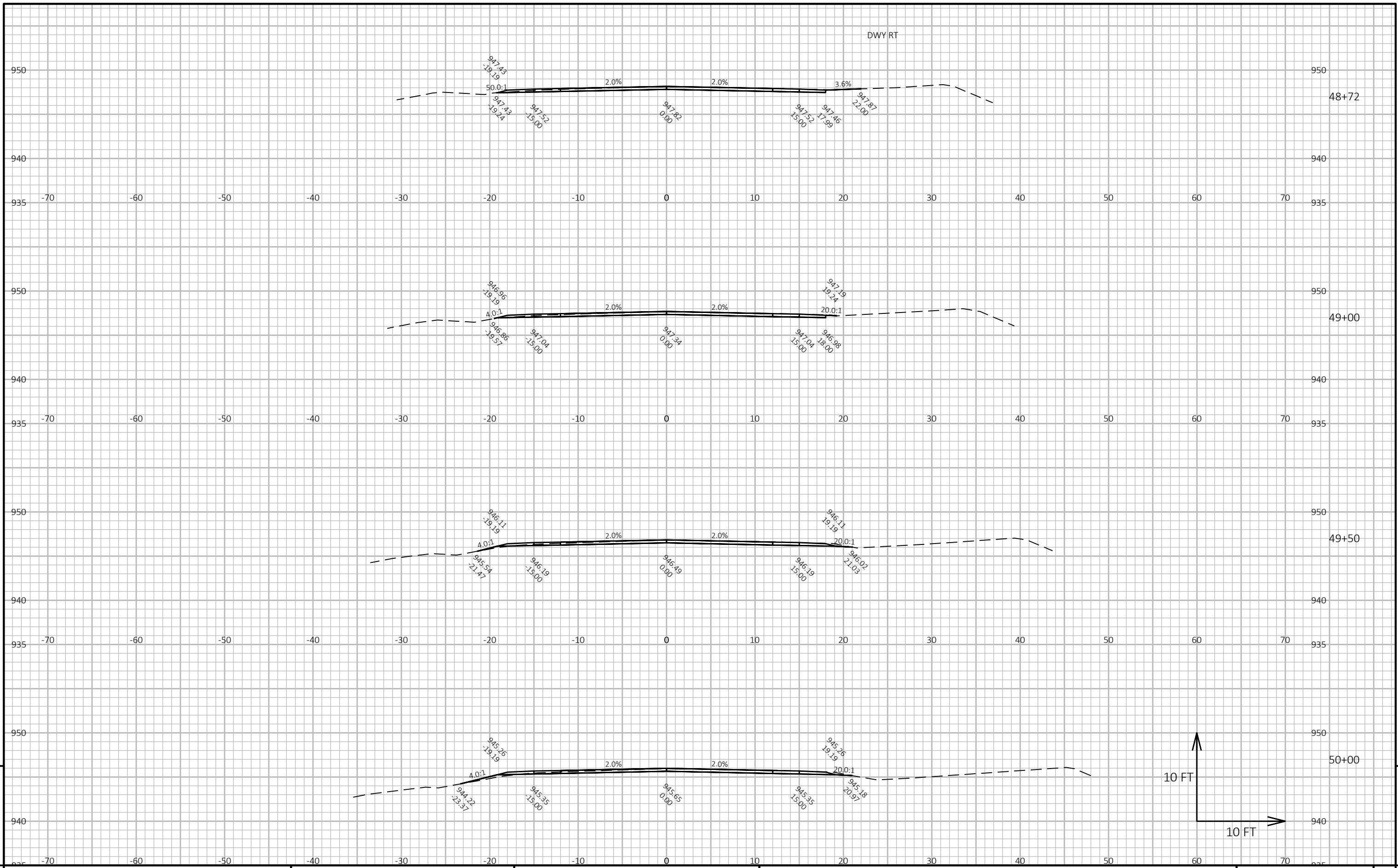
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 26



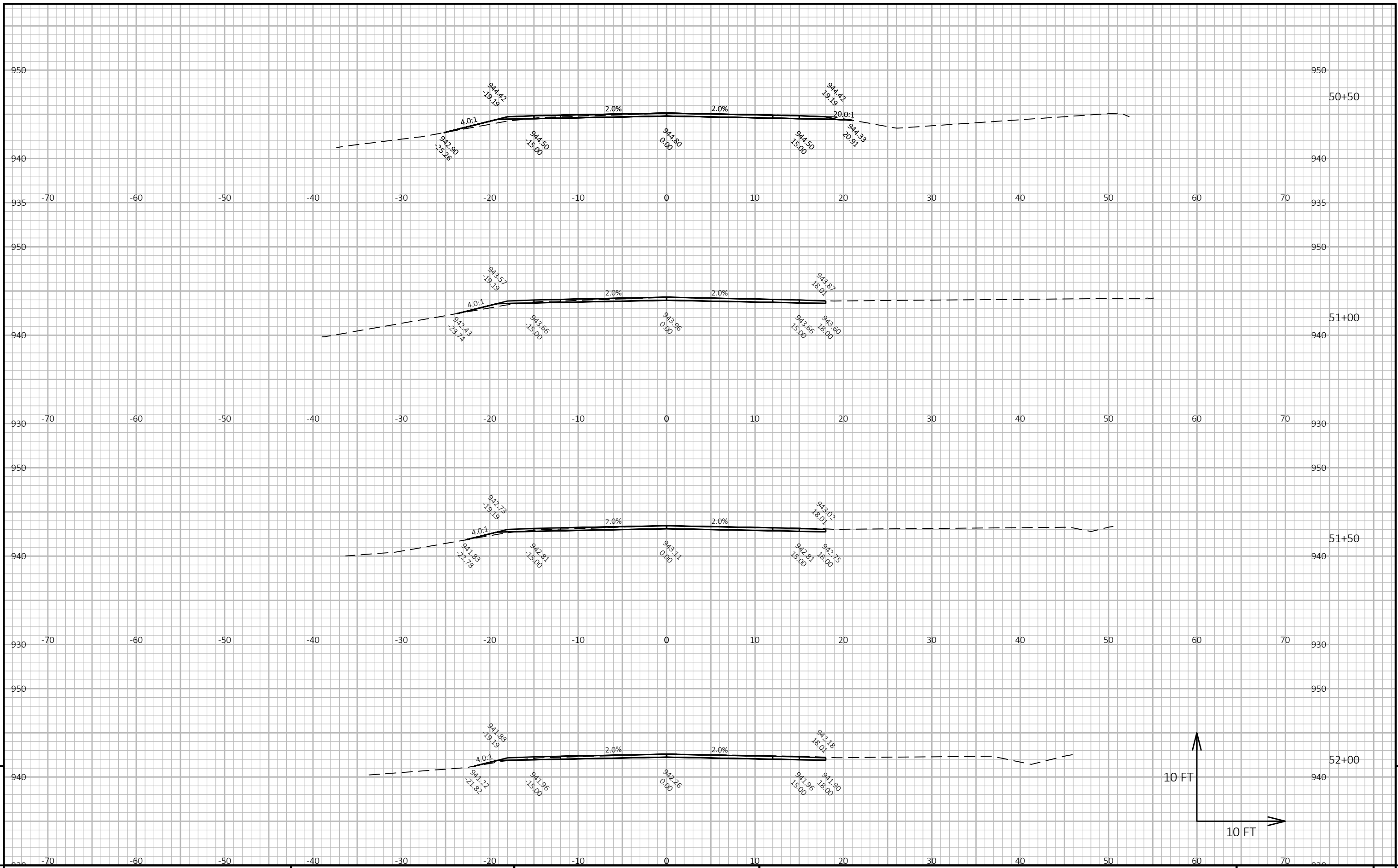
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

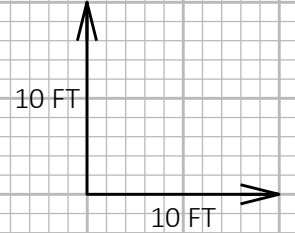
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 27



9

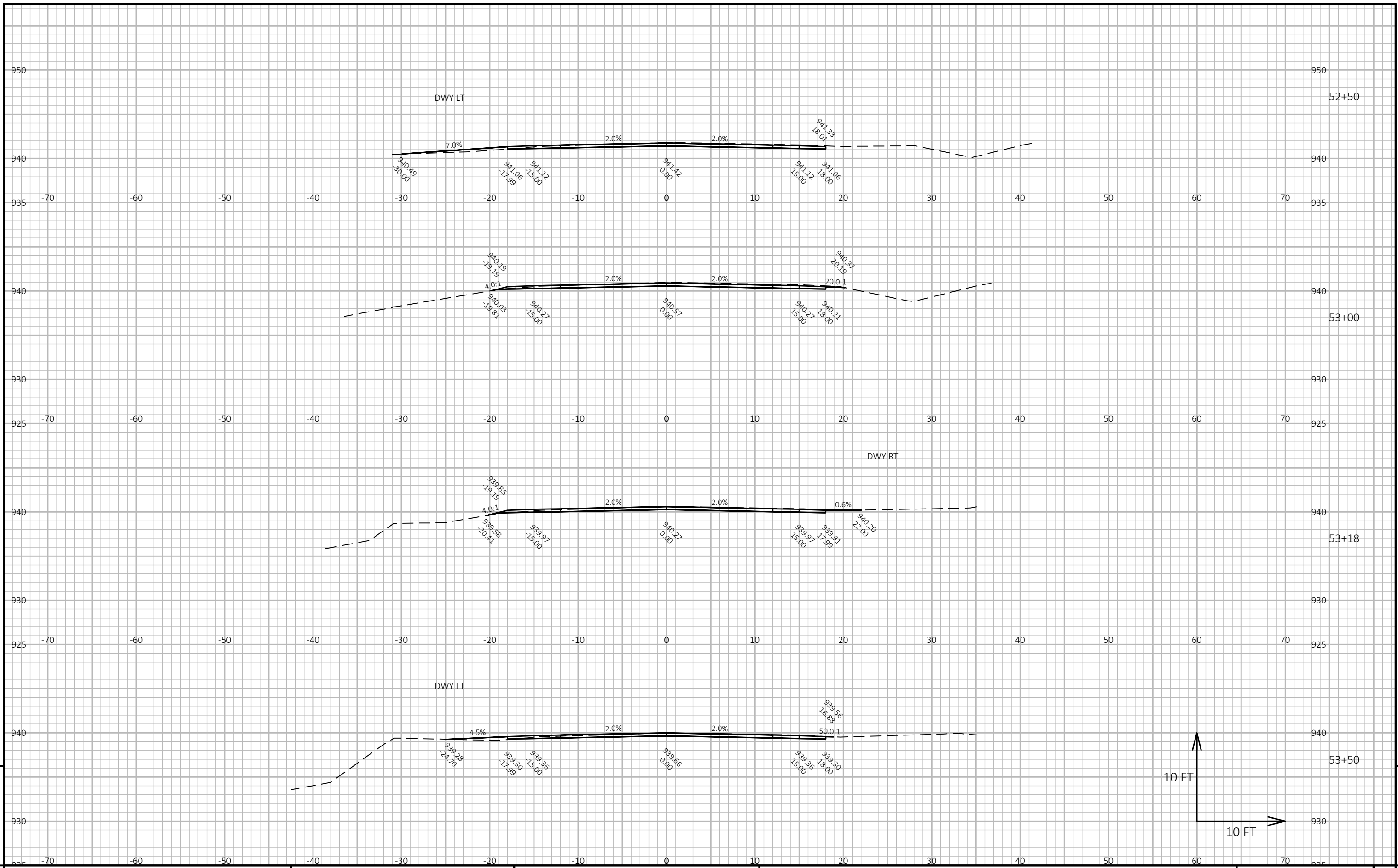
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

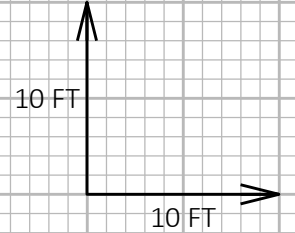
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 28



9

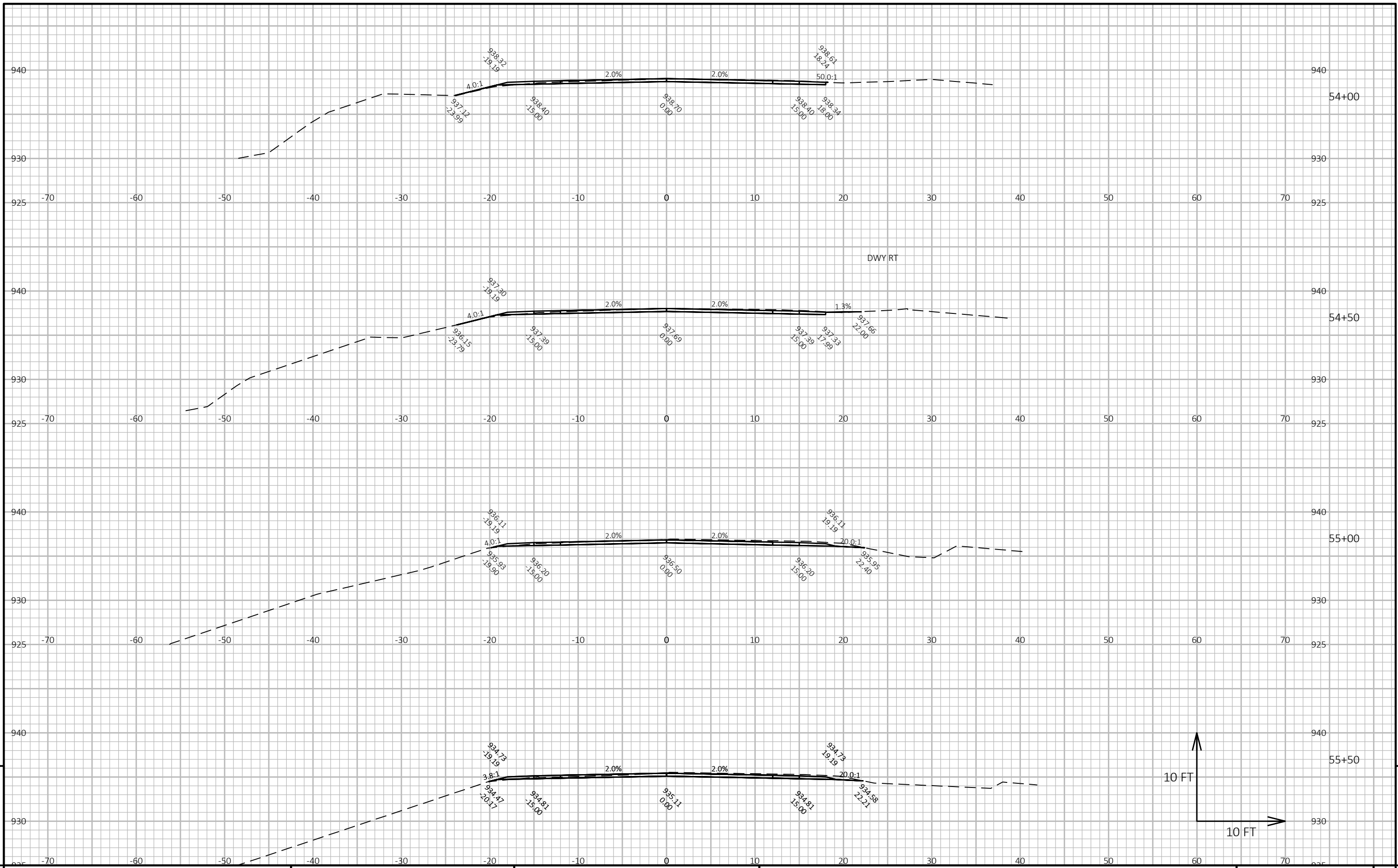
9



PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---

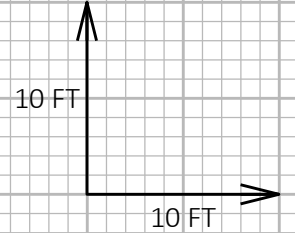
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 29



9

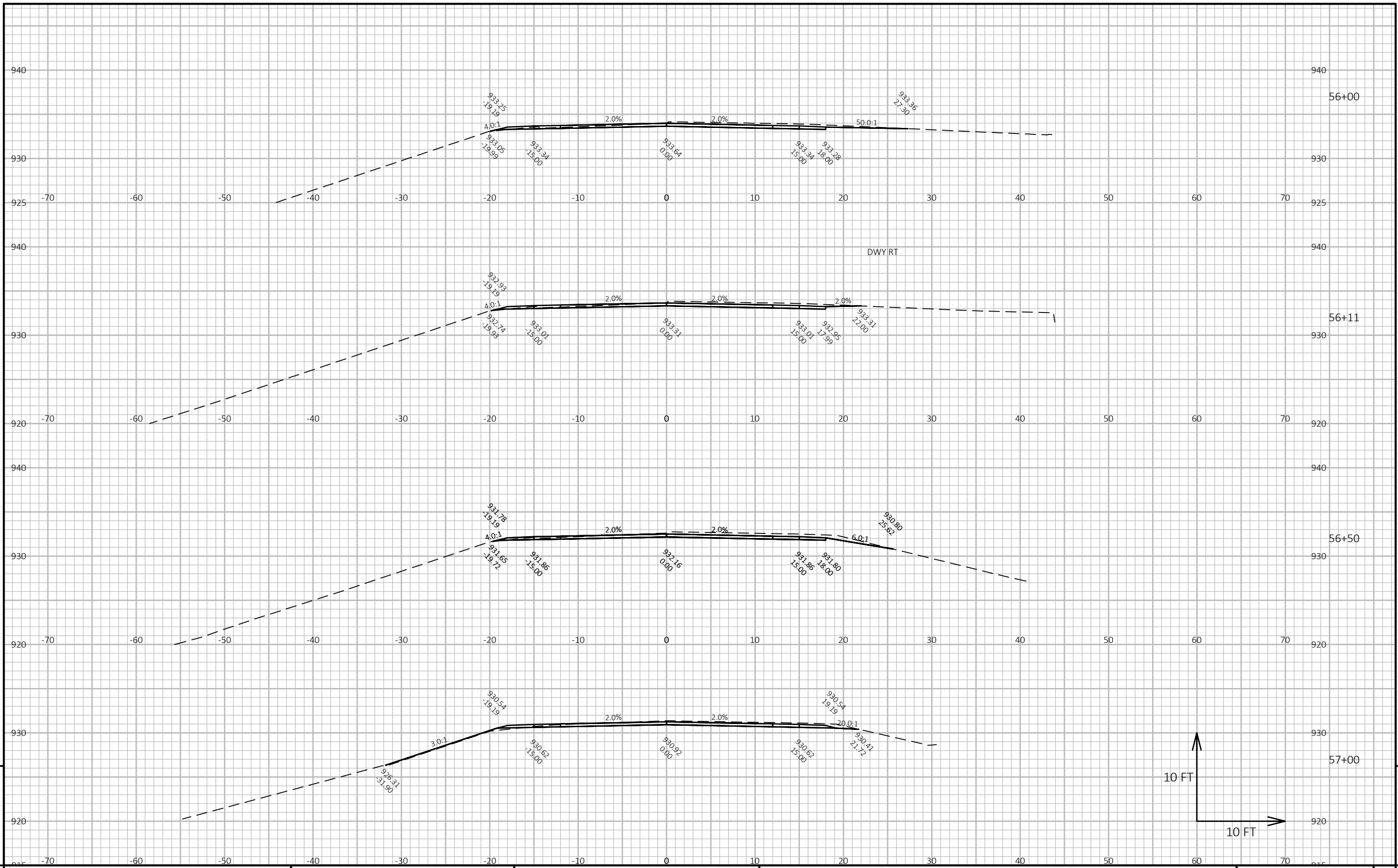
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 30



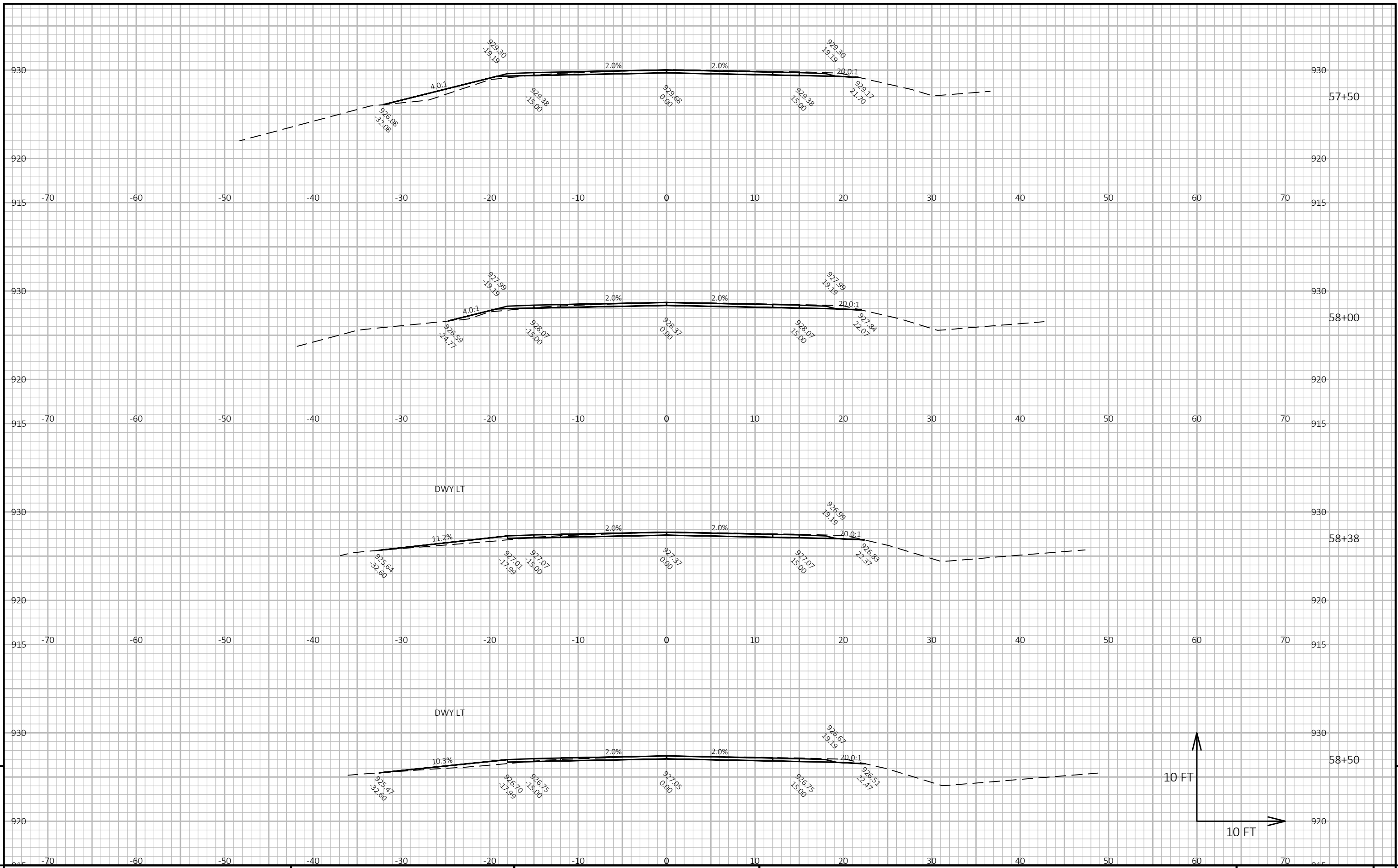
9

9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 31



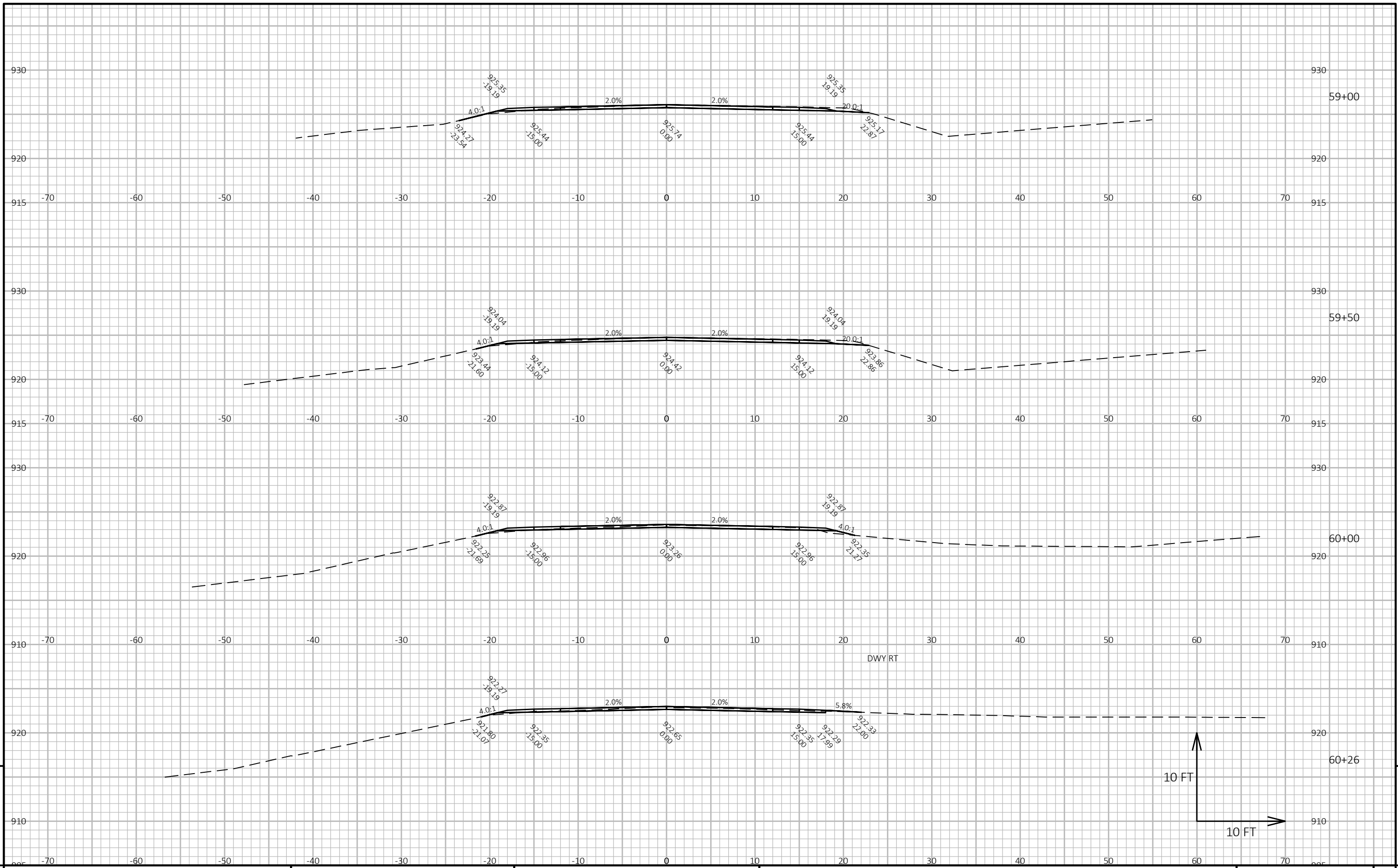
9

9

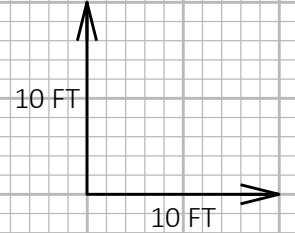
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

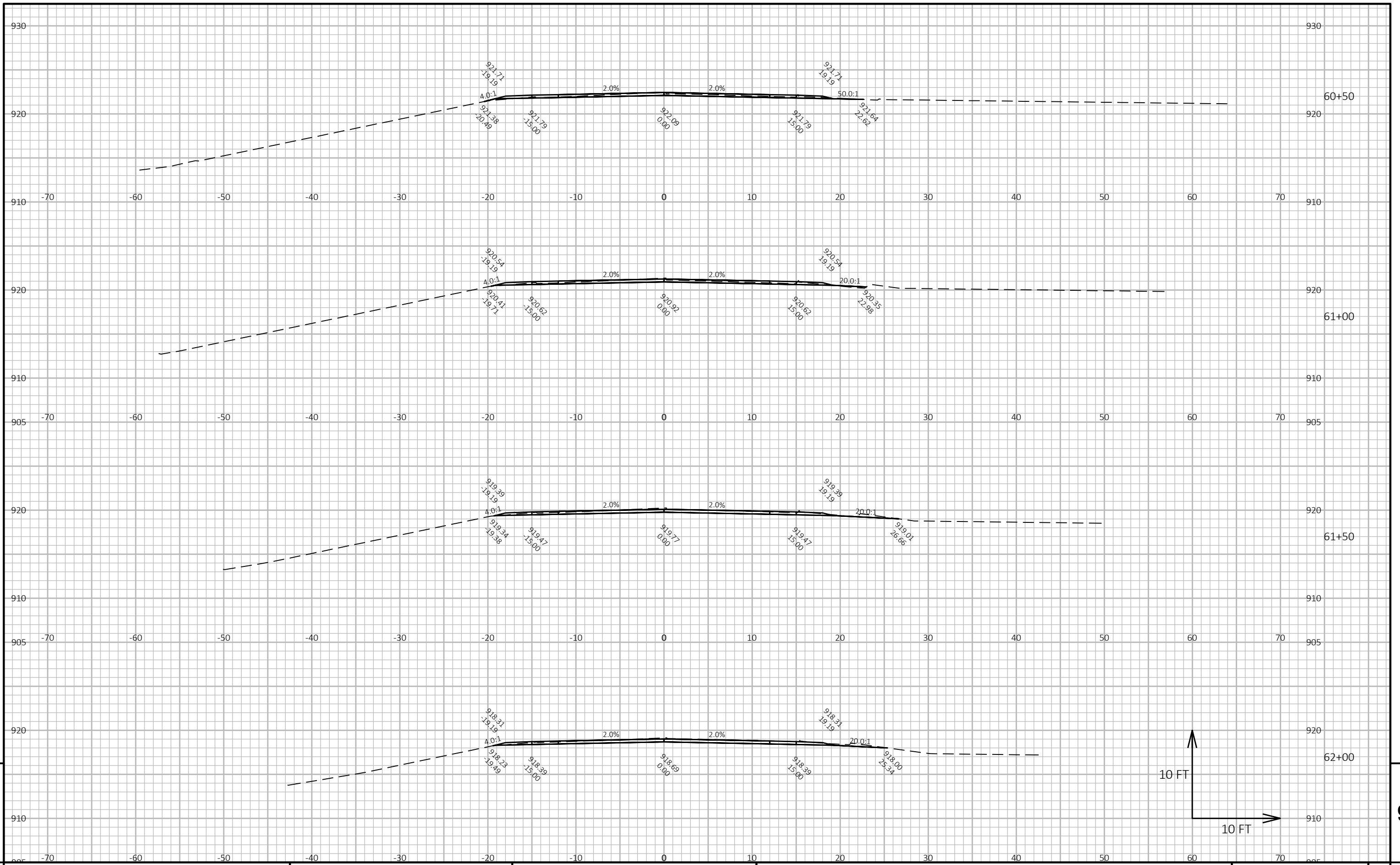
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 32



DWY RT





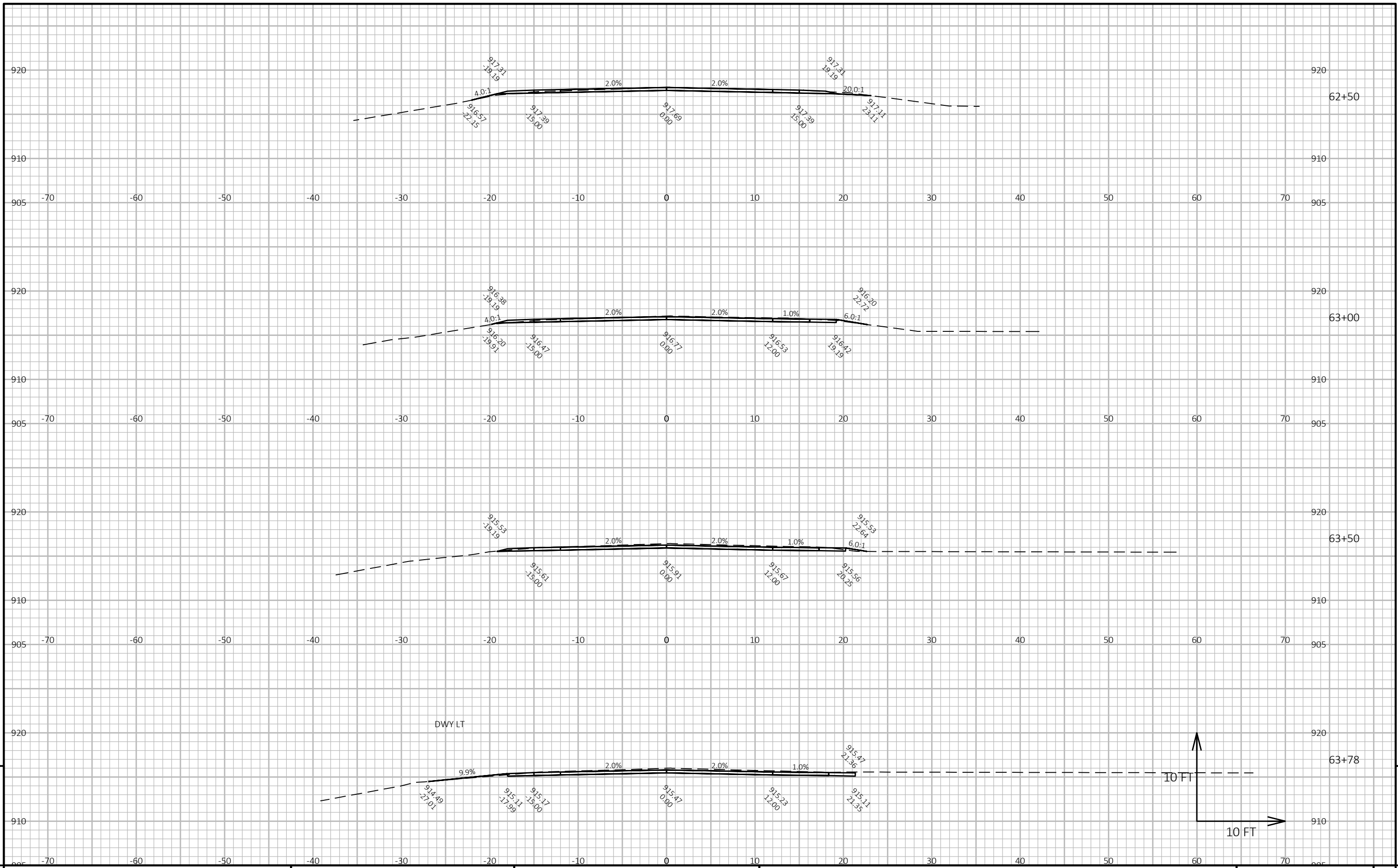
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

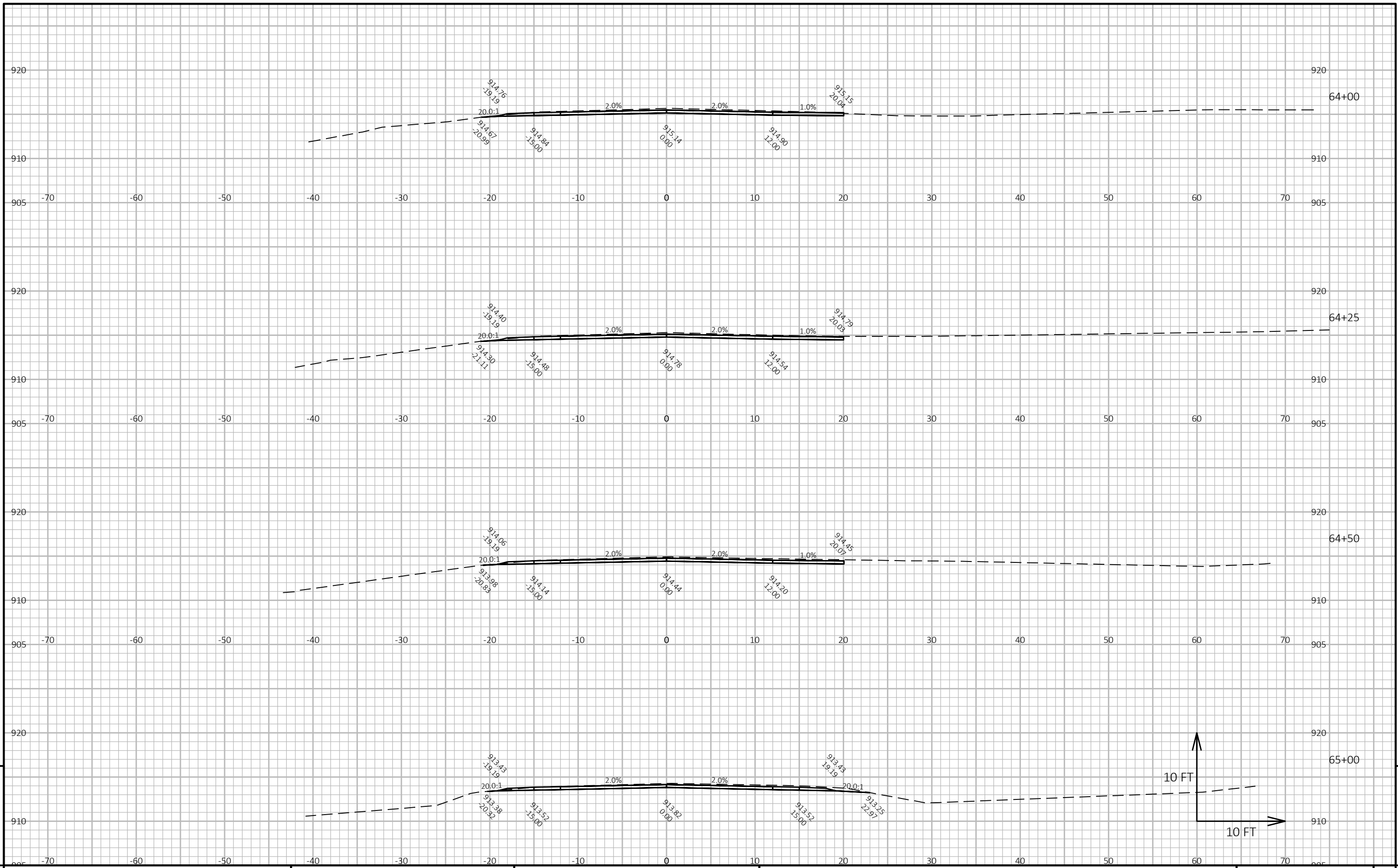
LAYOUT NAME - 34



9

9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---



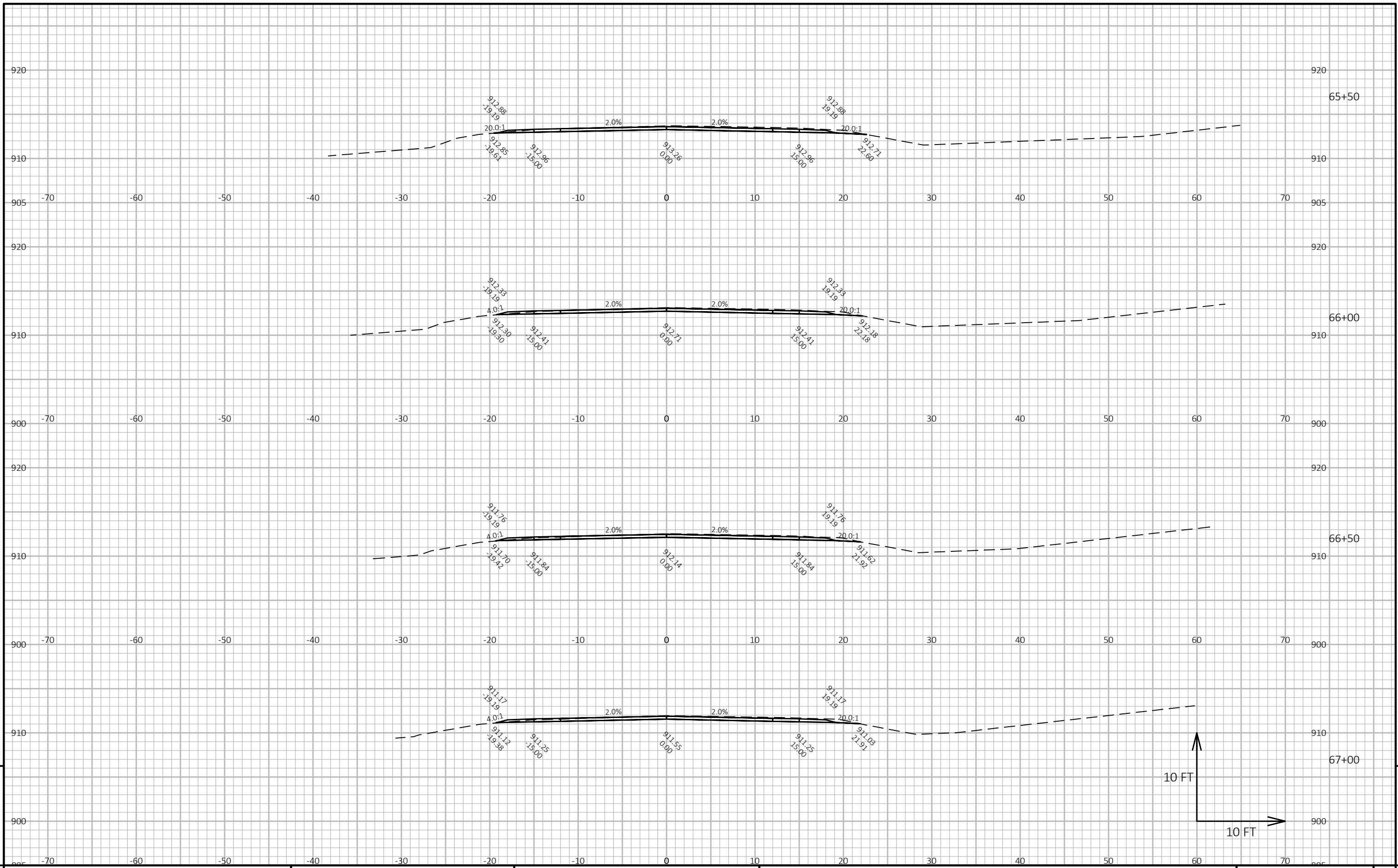
9

9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 36



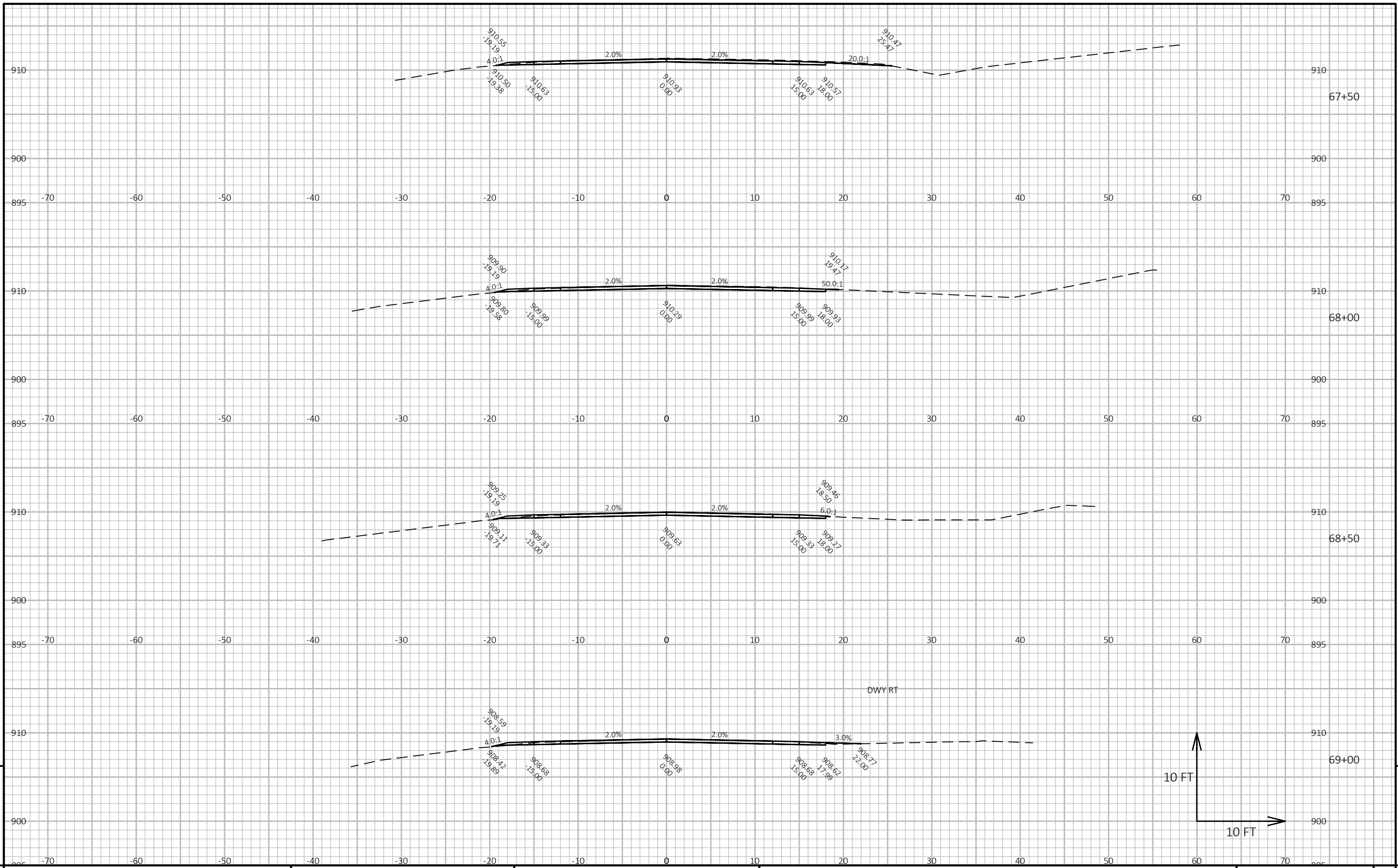
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME: X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE: 7/8/2022 12:19 PM PLOT BY: KEVIN LOHFF PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 37



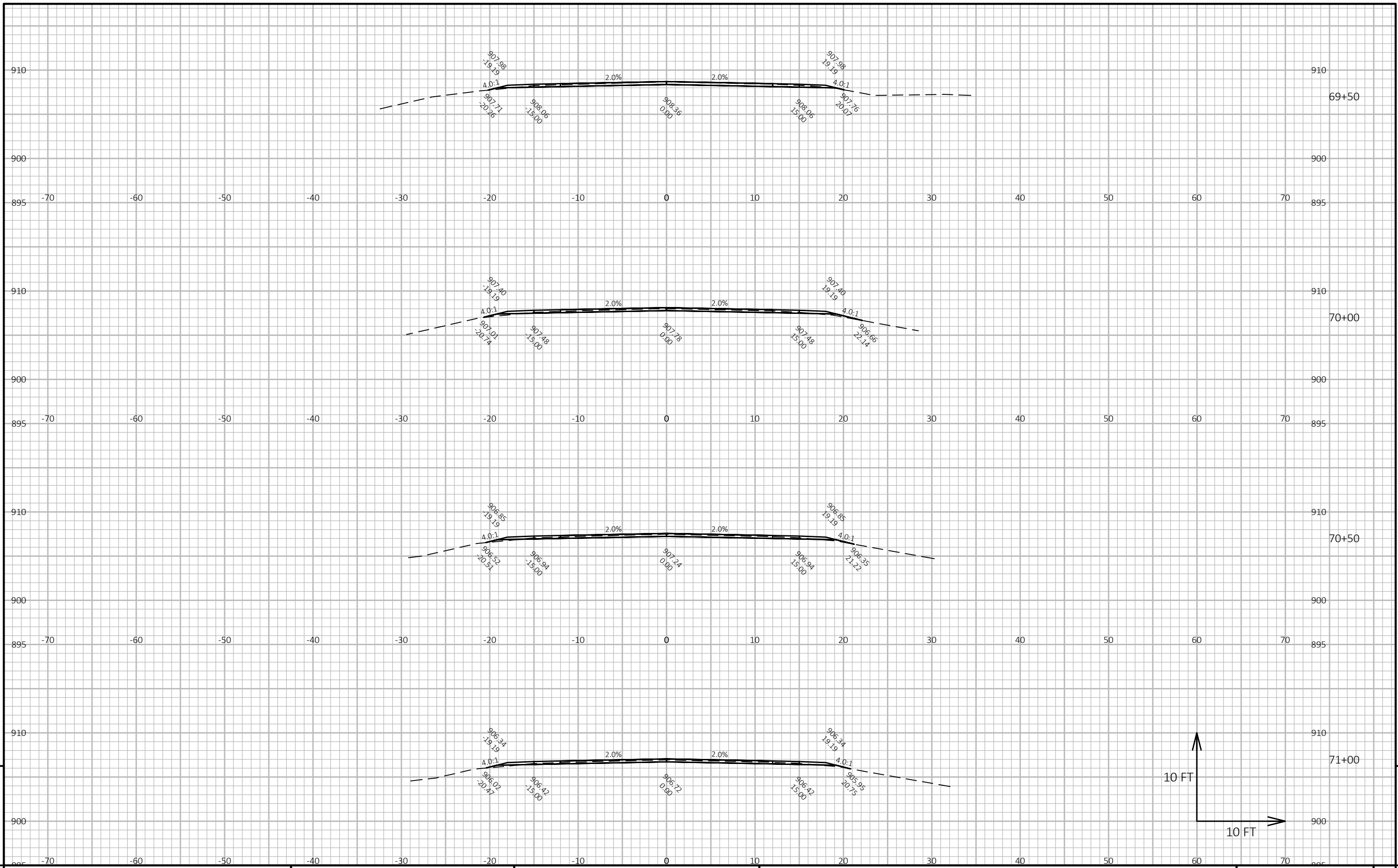
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

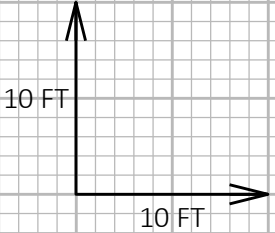
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 38



9

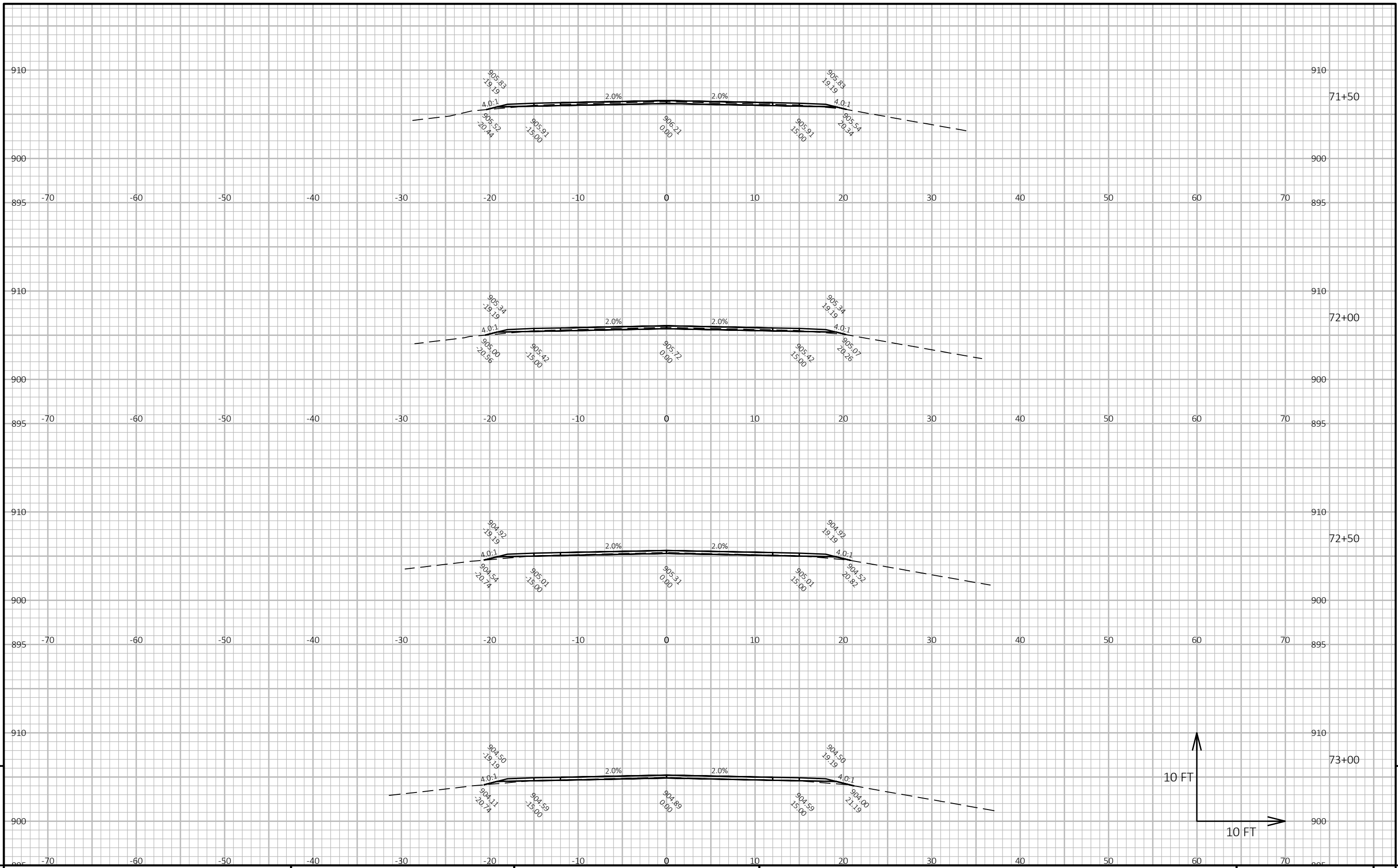
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 39



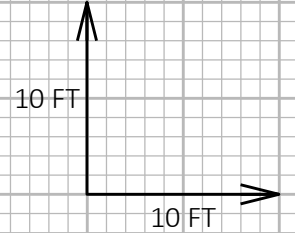
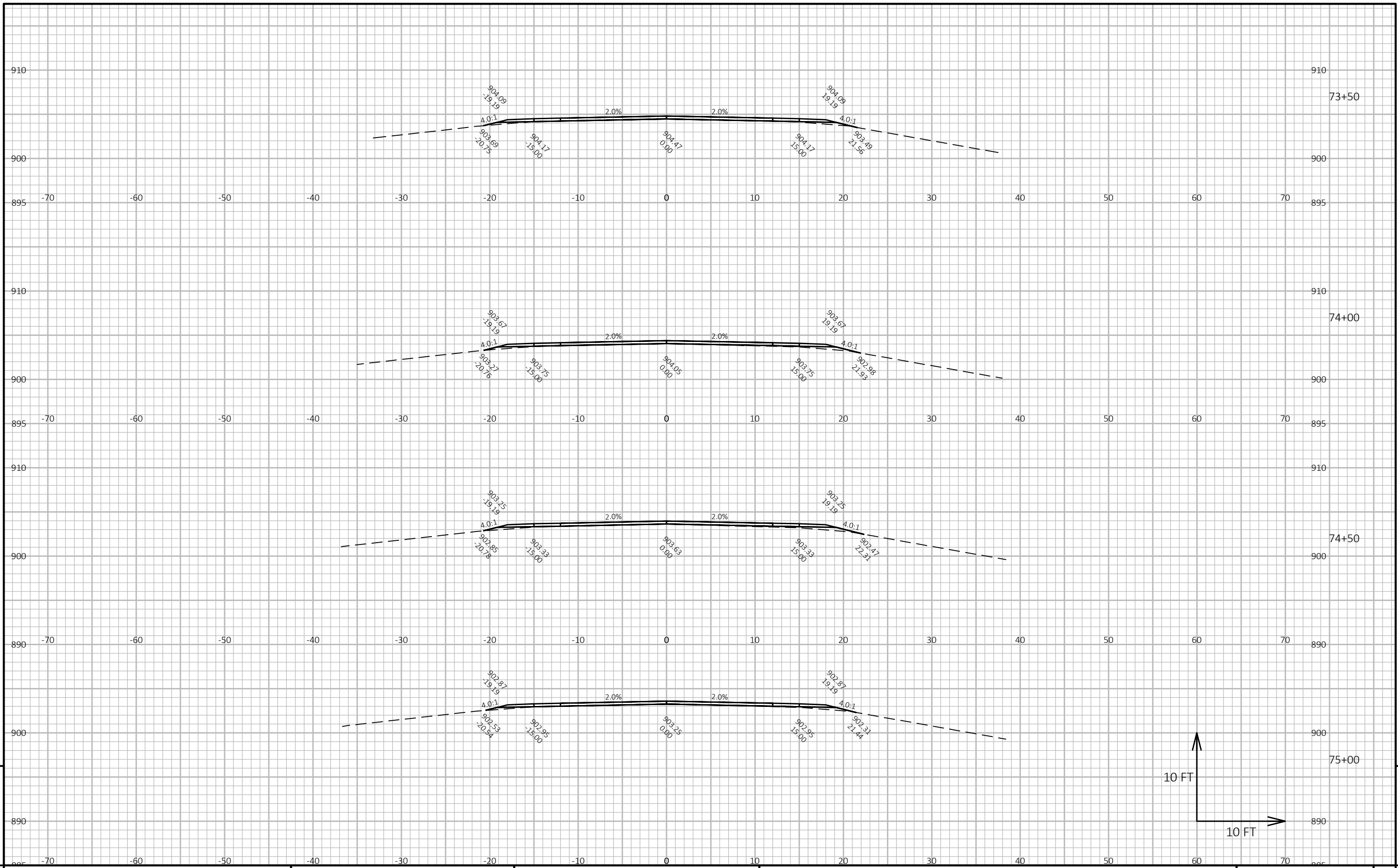
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 40



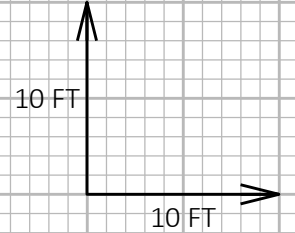
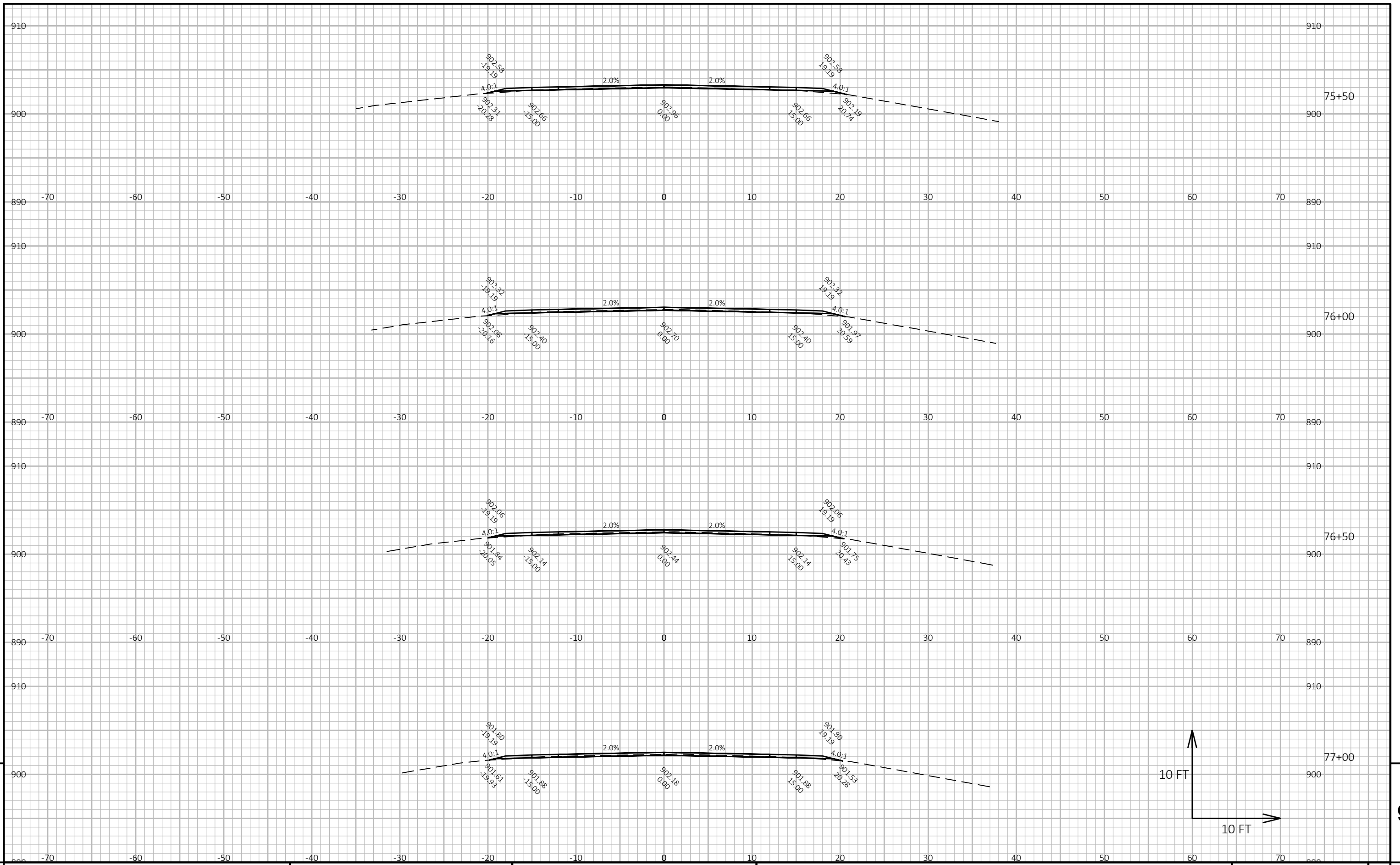
9

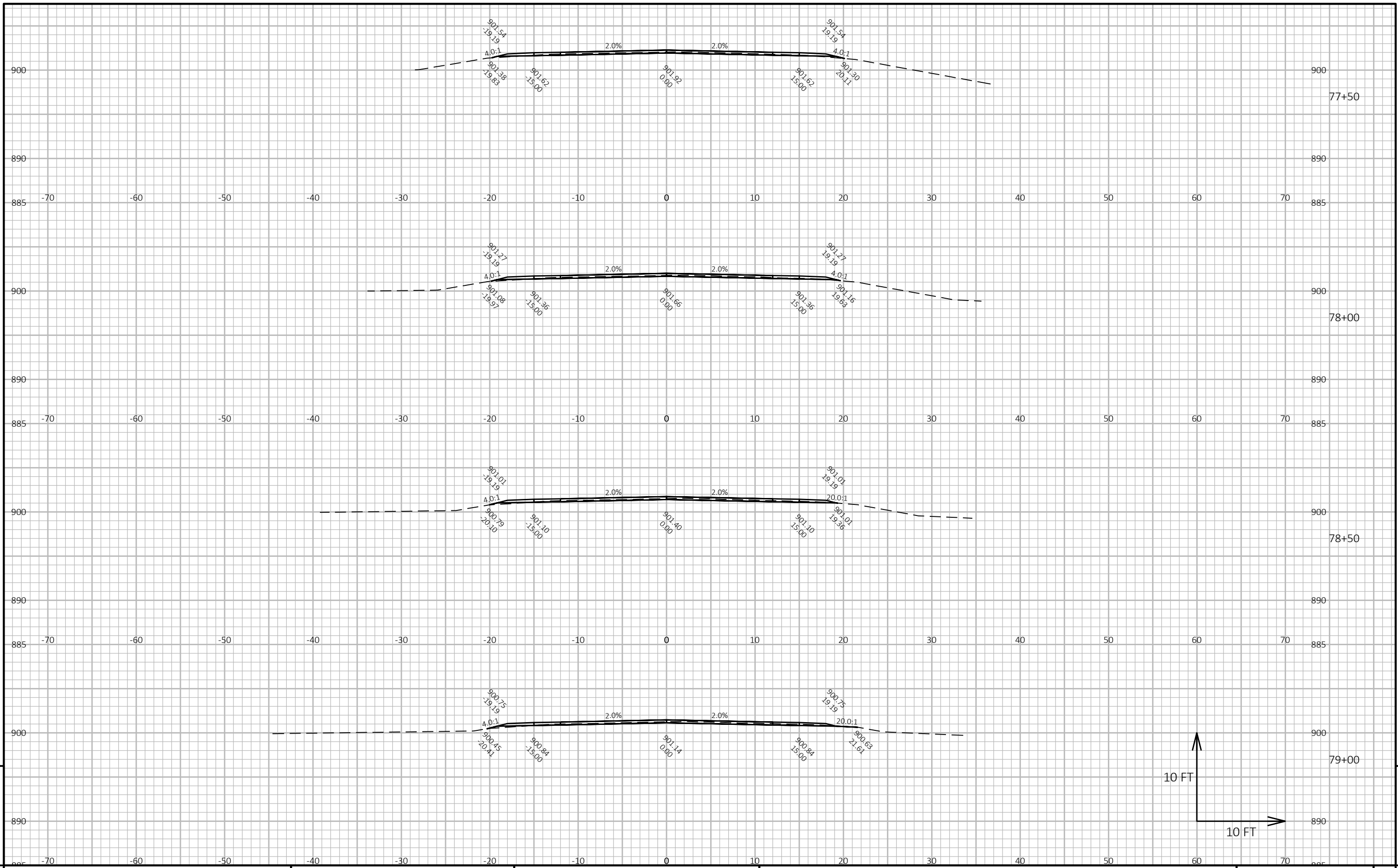
9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:19 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

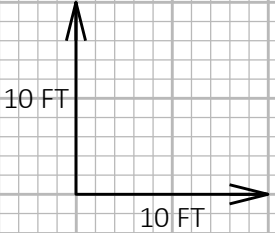
LAYOUT NAME - 41





9

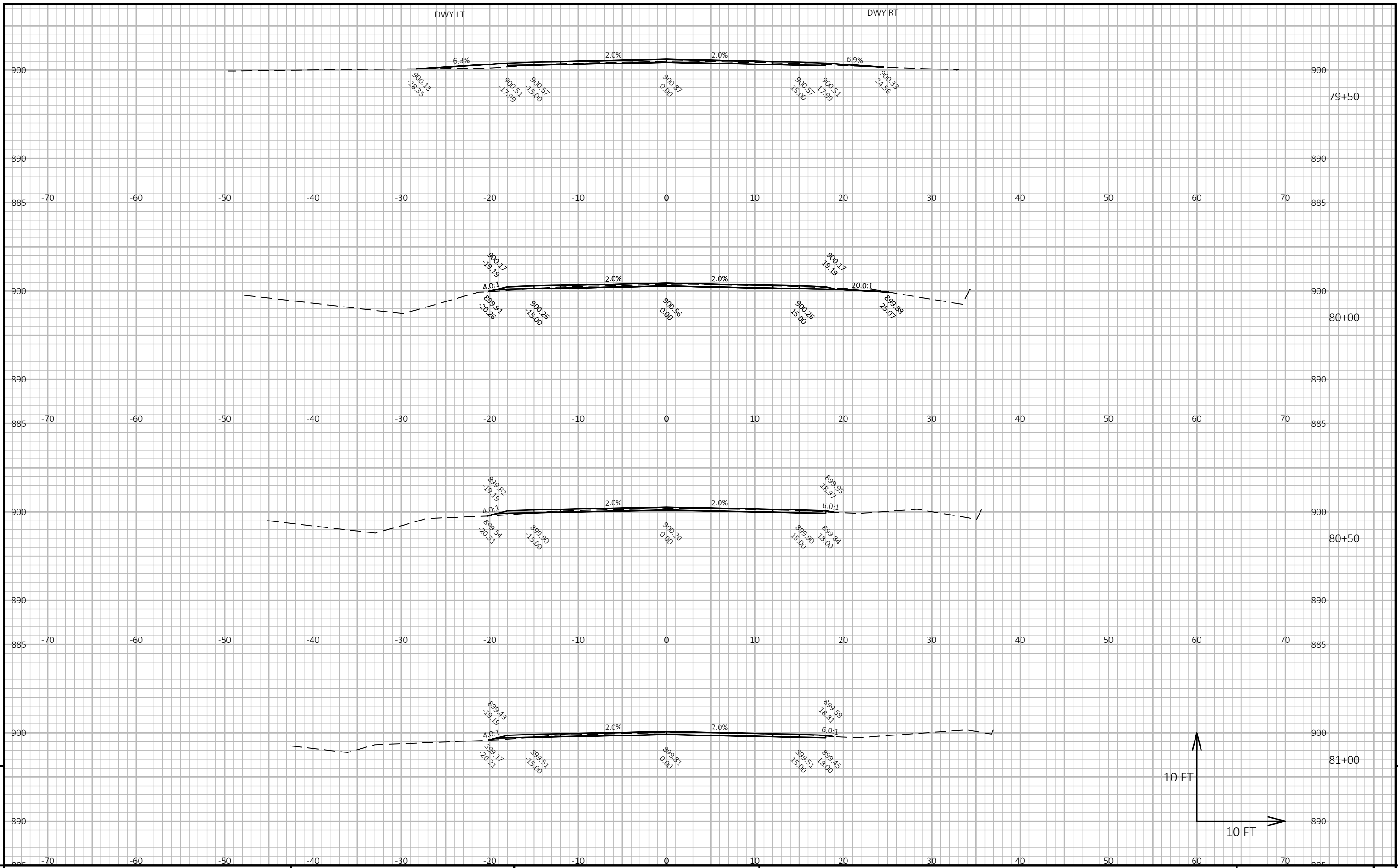
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 43



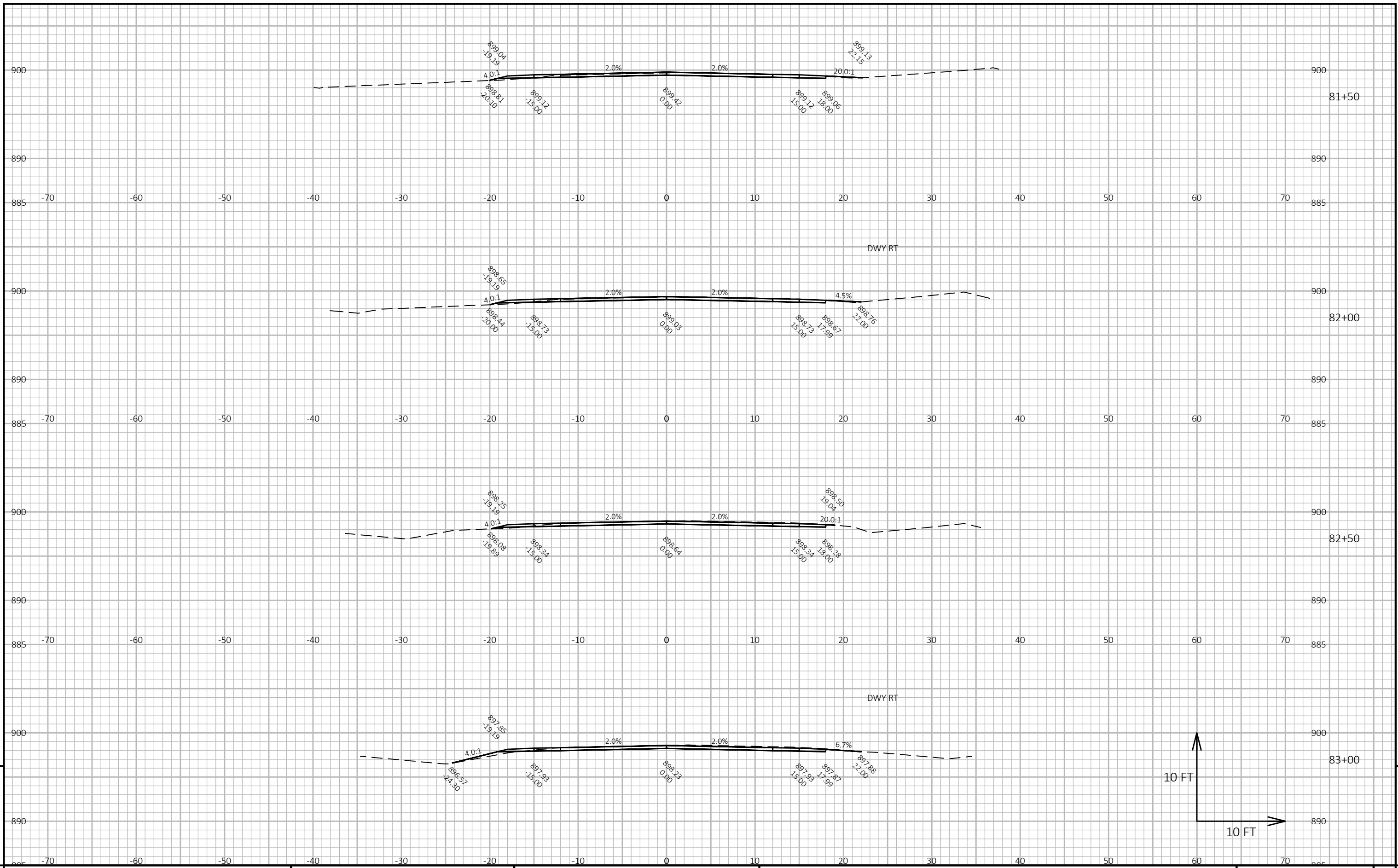
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

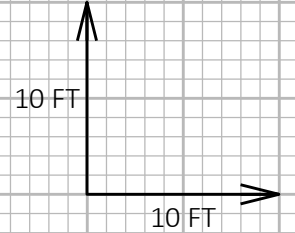
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 44



DWY RT

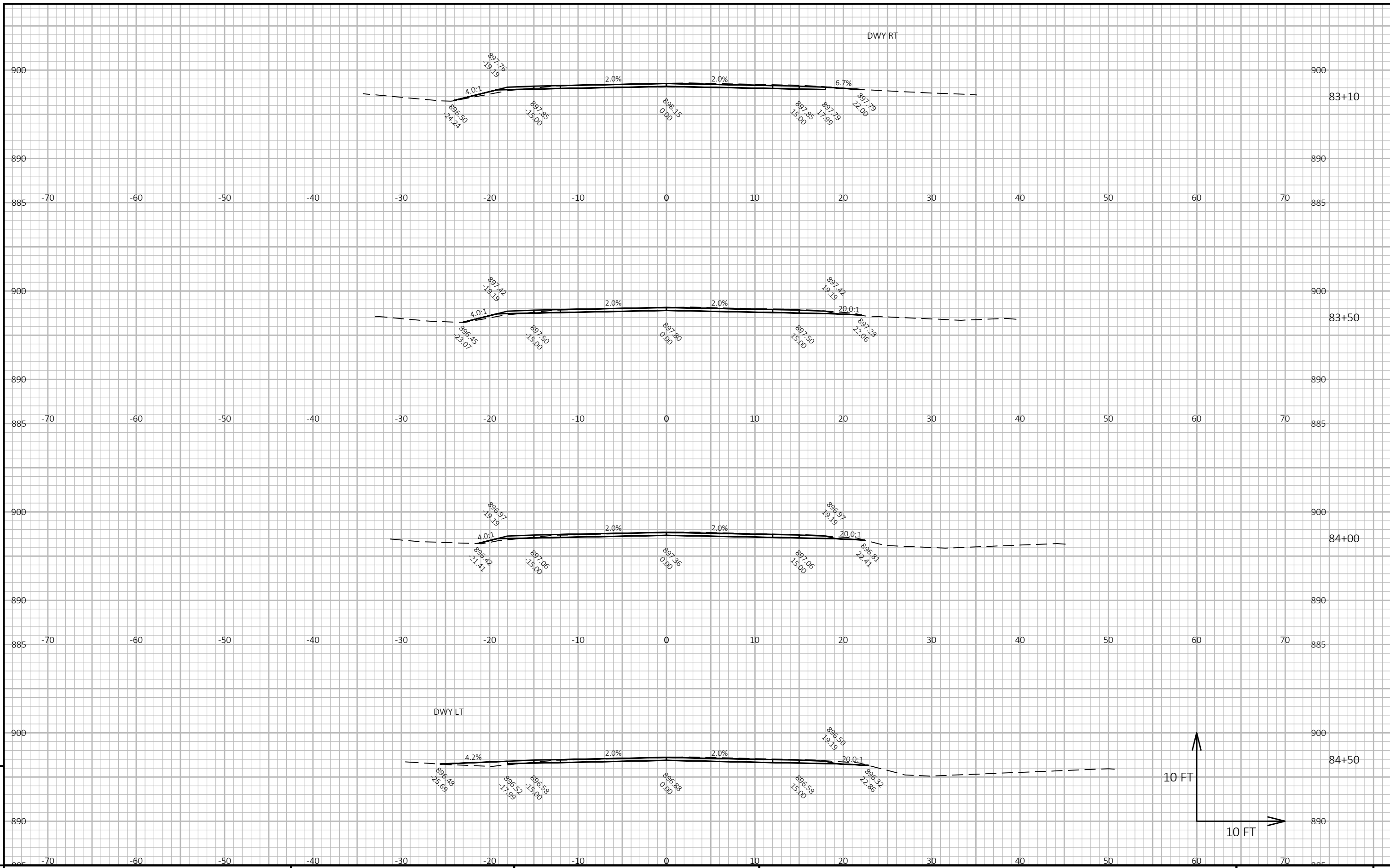
DWY RT



9

9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---



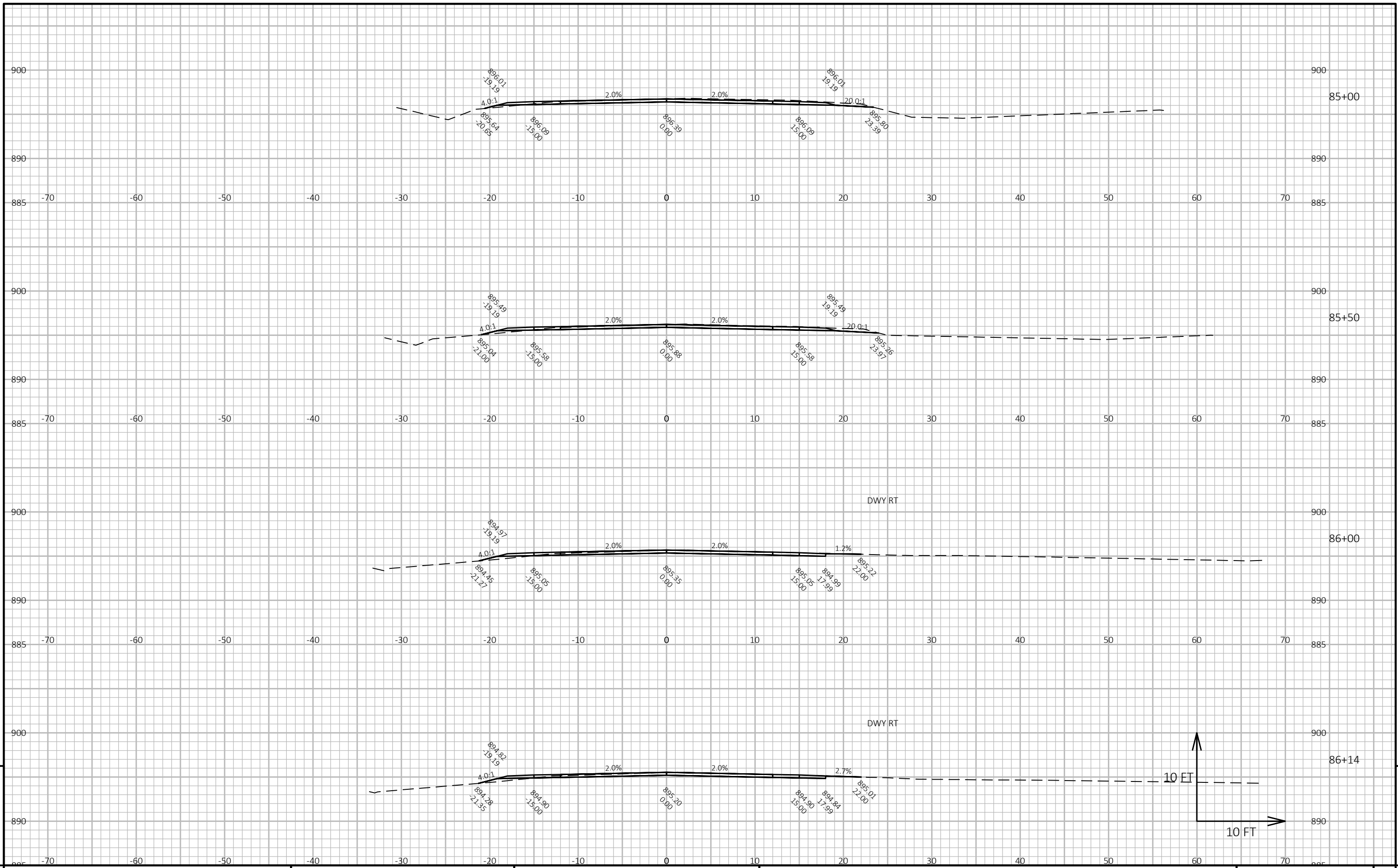
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

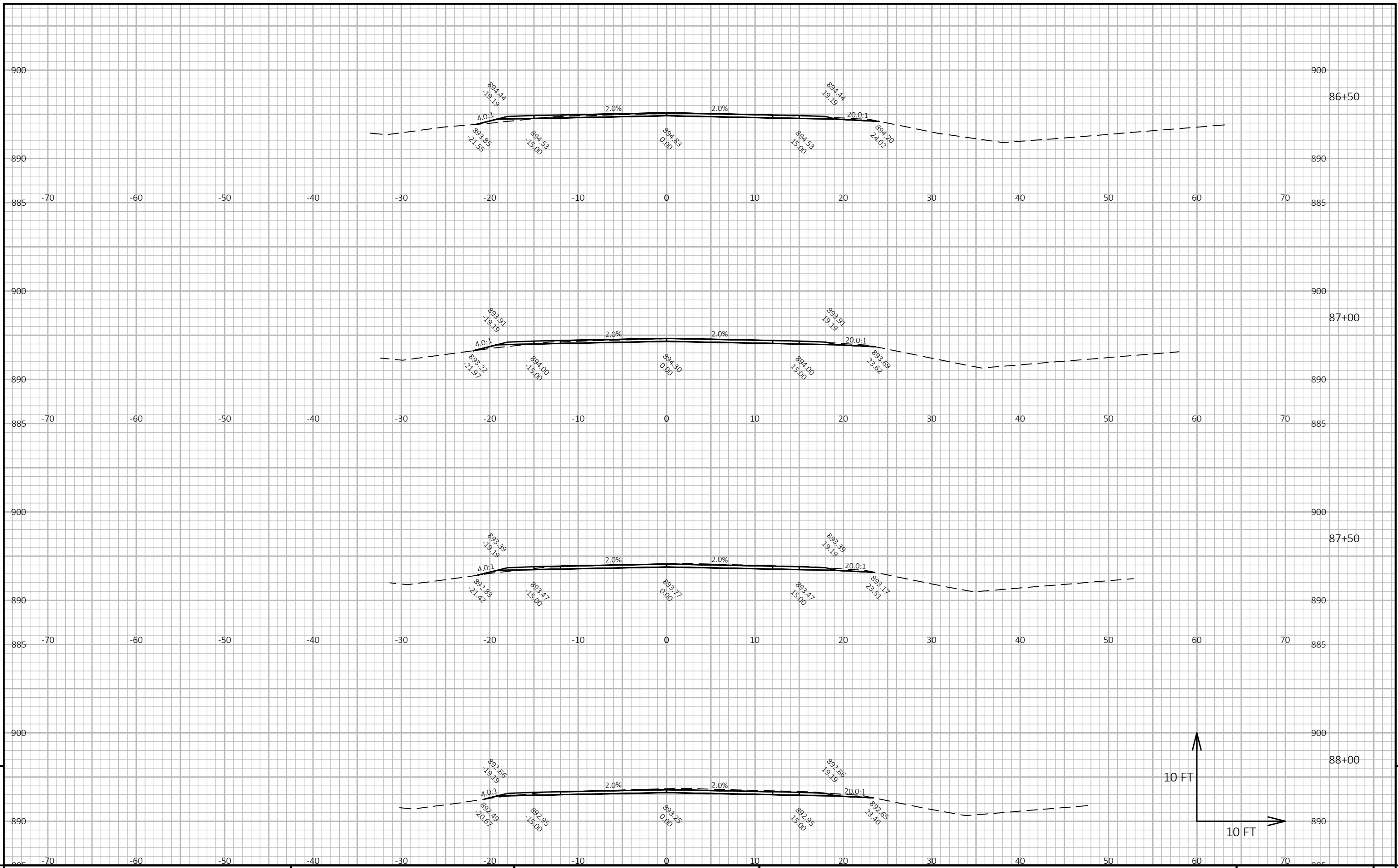
LAYOUT NAME - 46



9

9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---



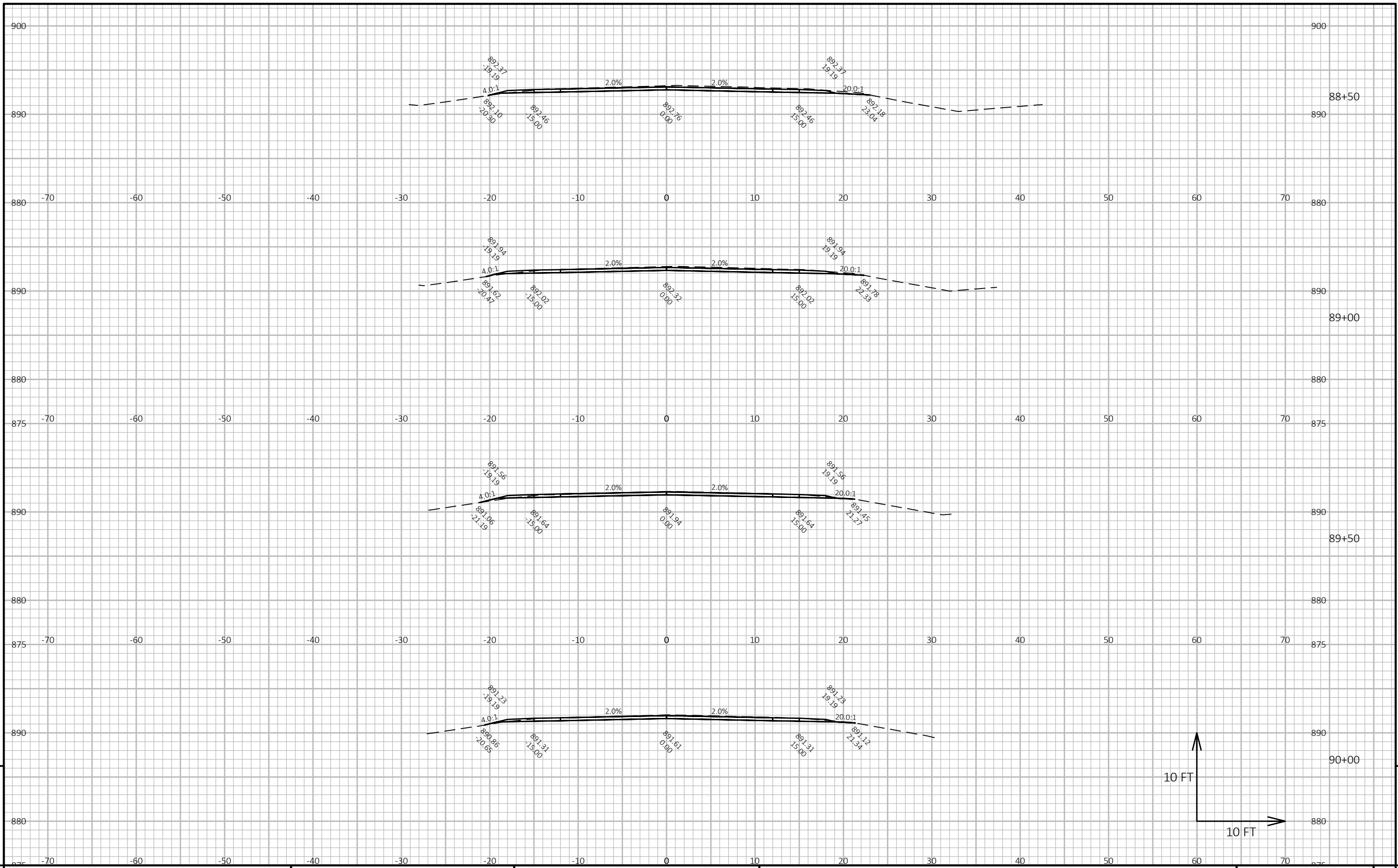
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

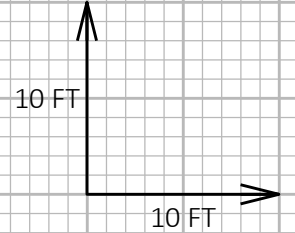
FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 48



9

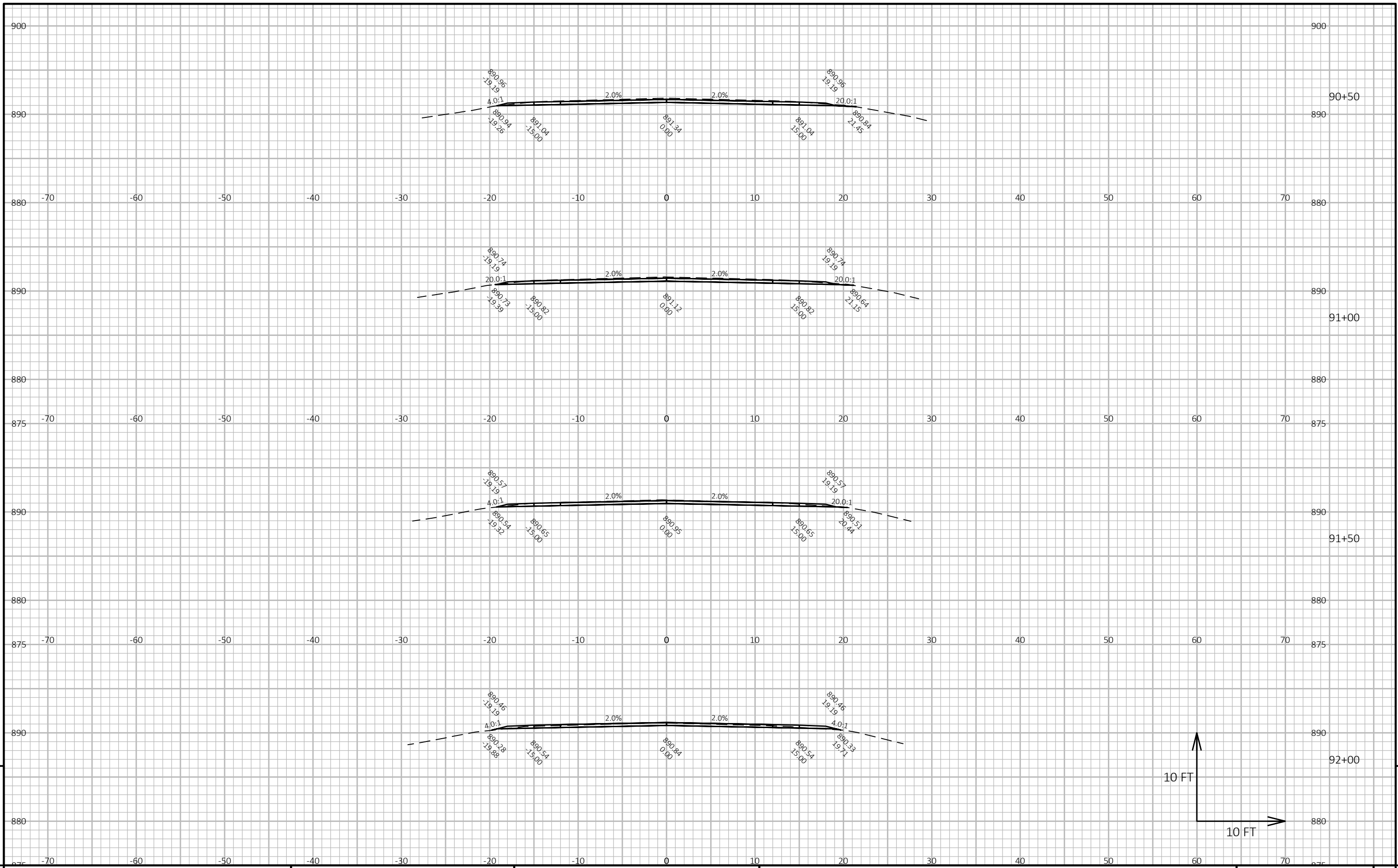
9



PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 49

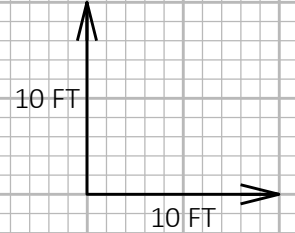


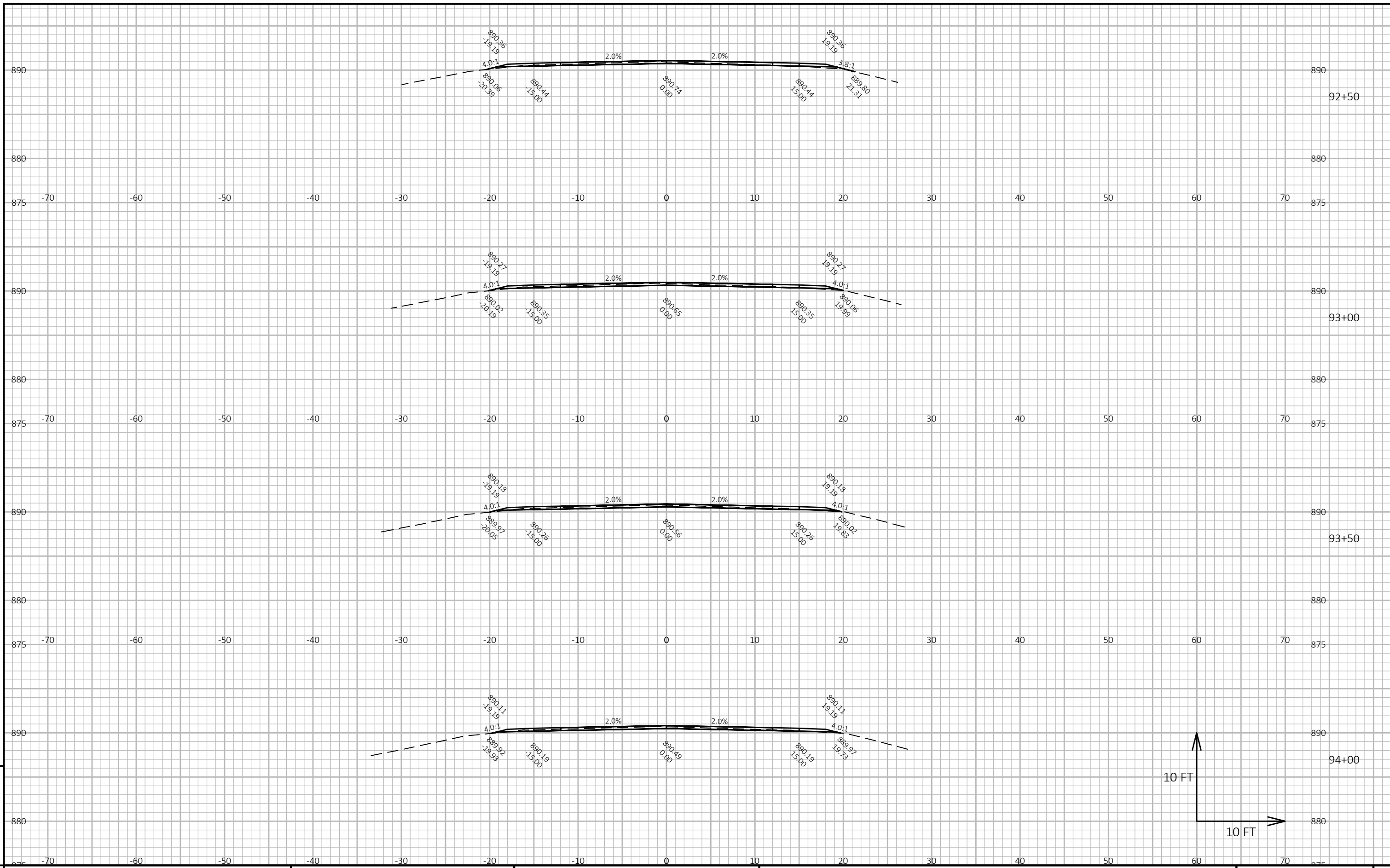
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49





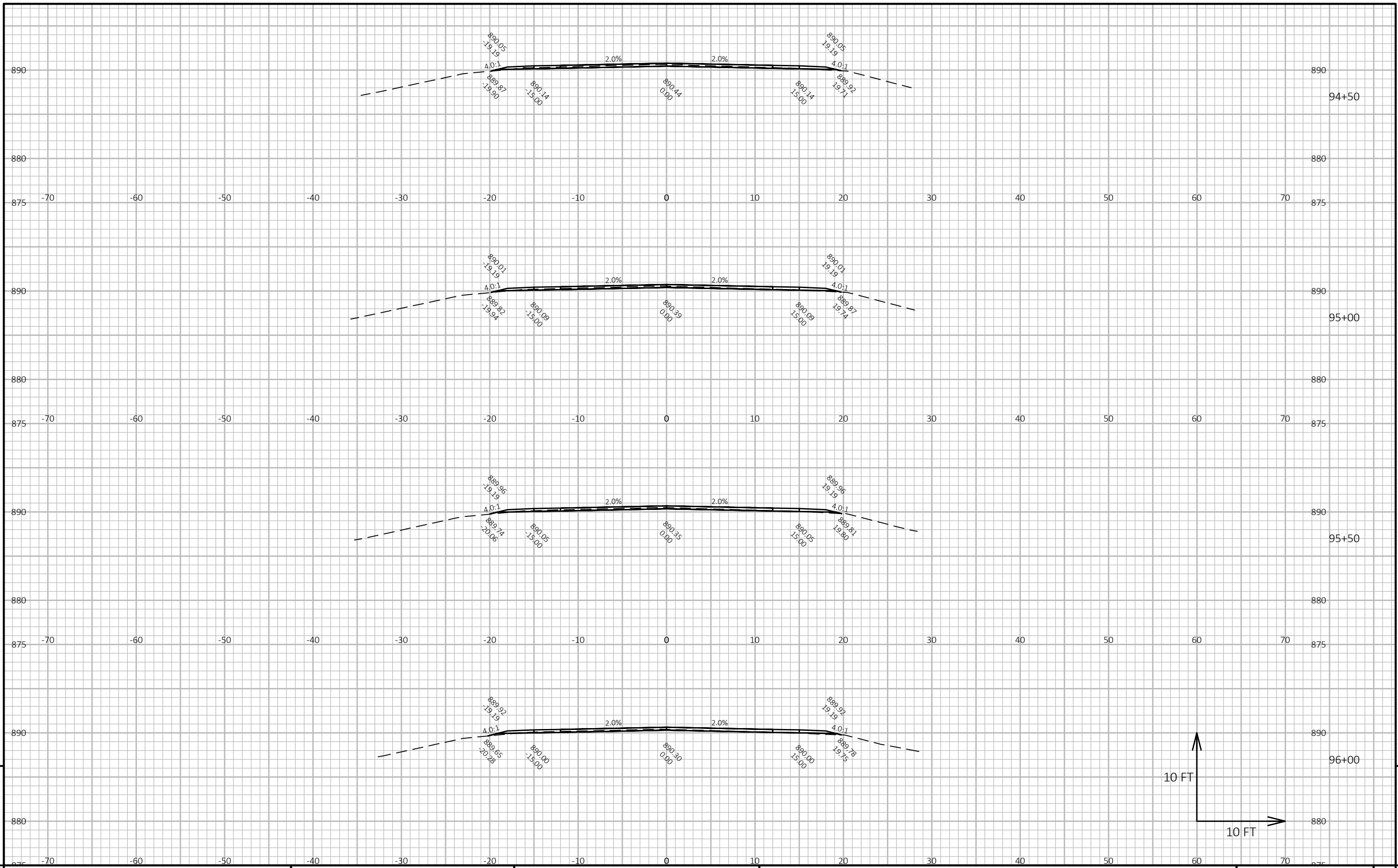
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 51



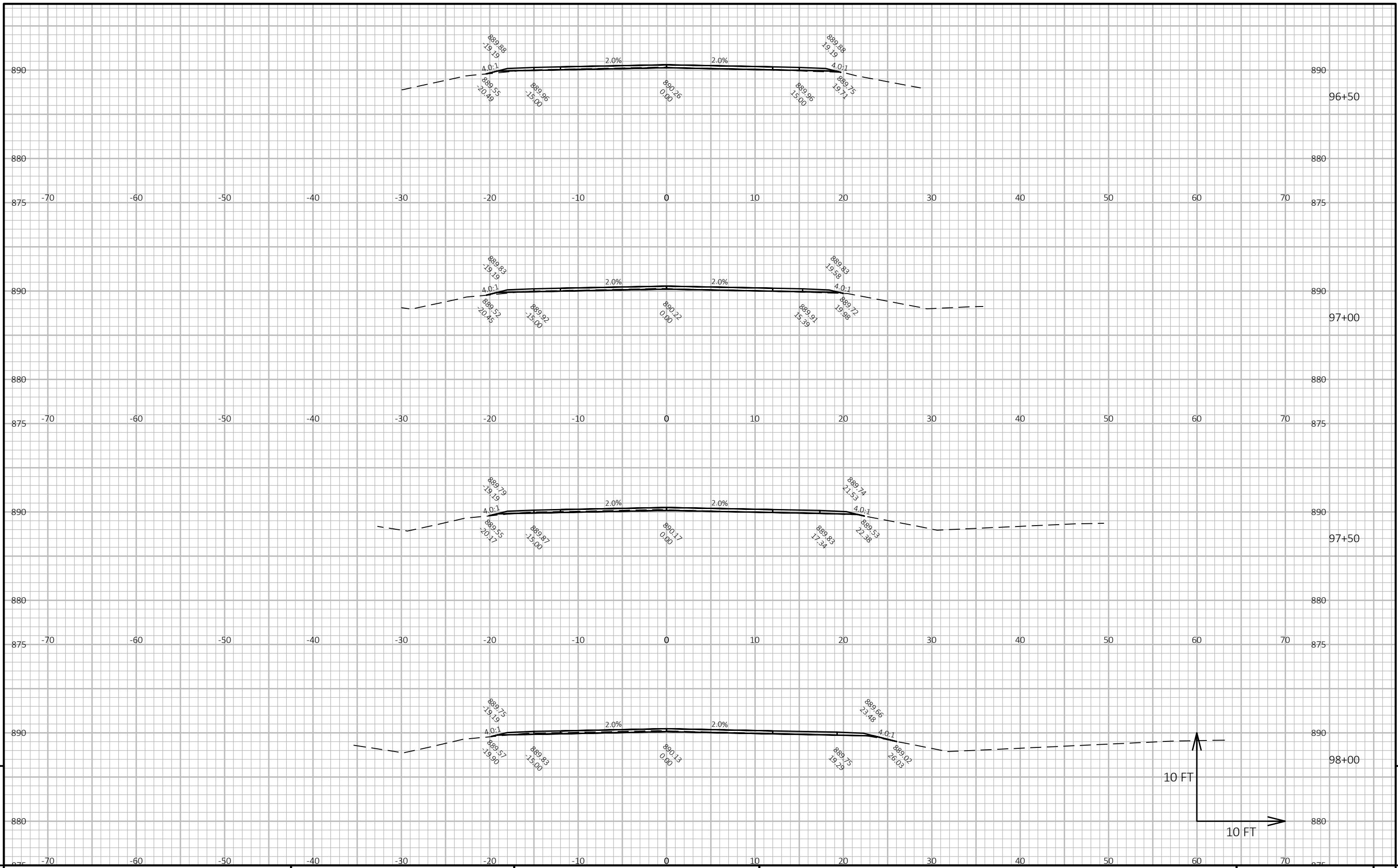
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 52



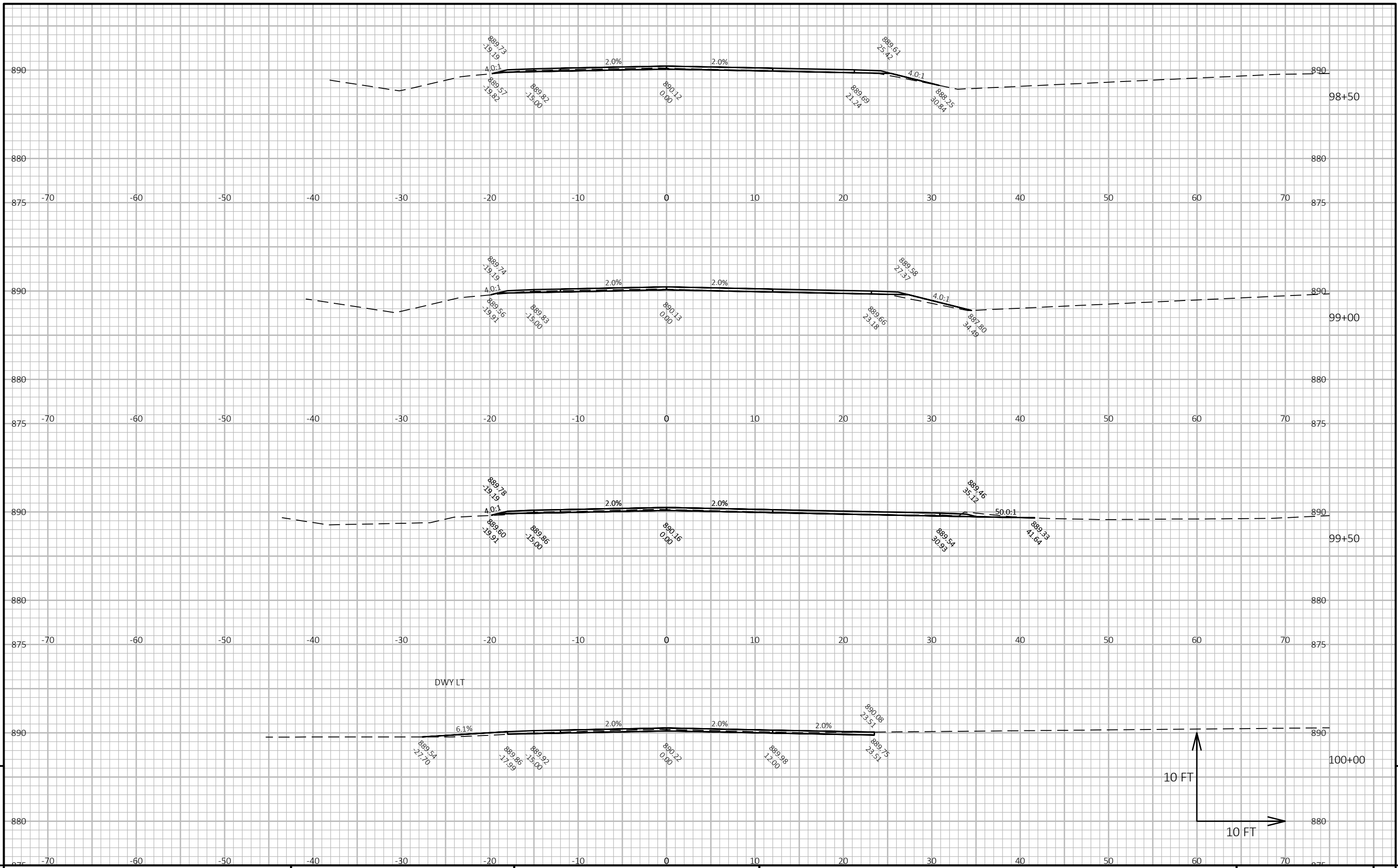
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

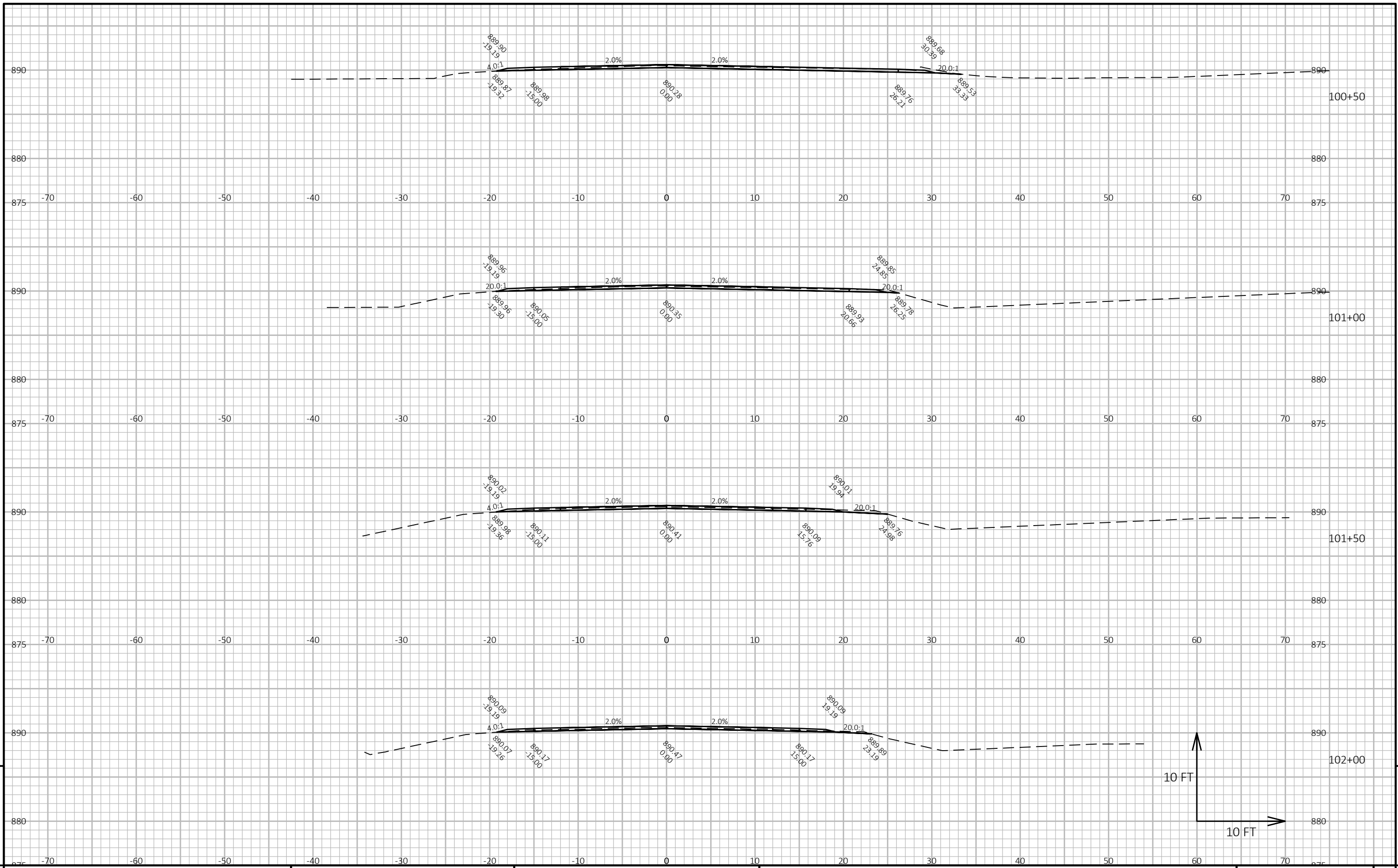
LAYOUT NAME - 53



9

9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---

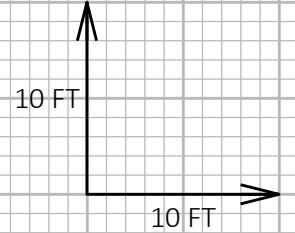


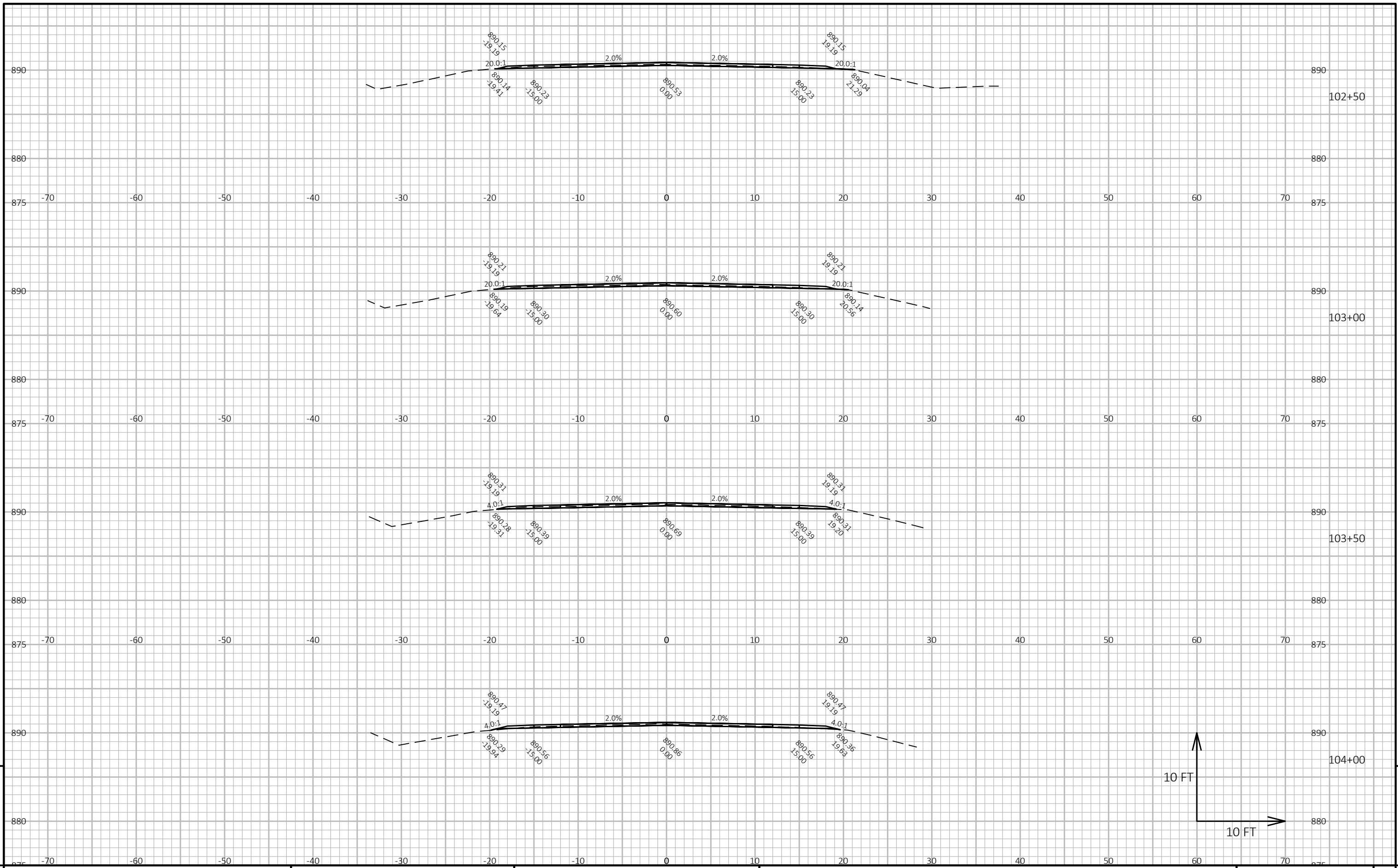
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49





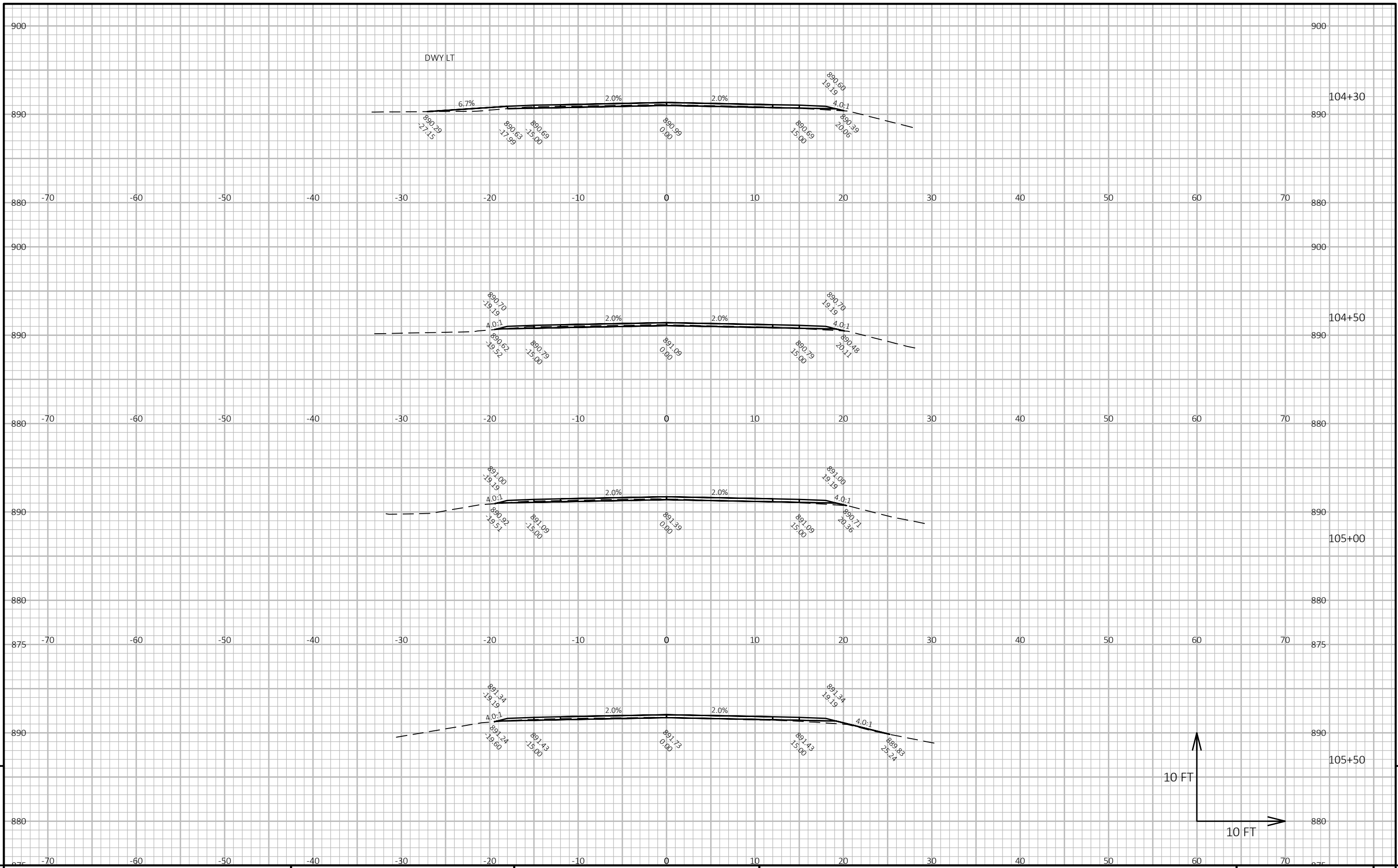
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 56



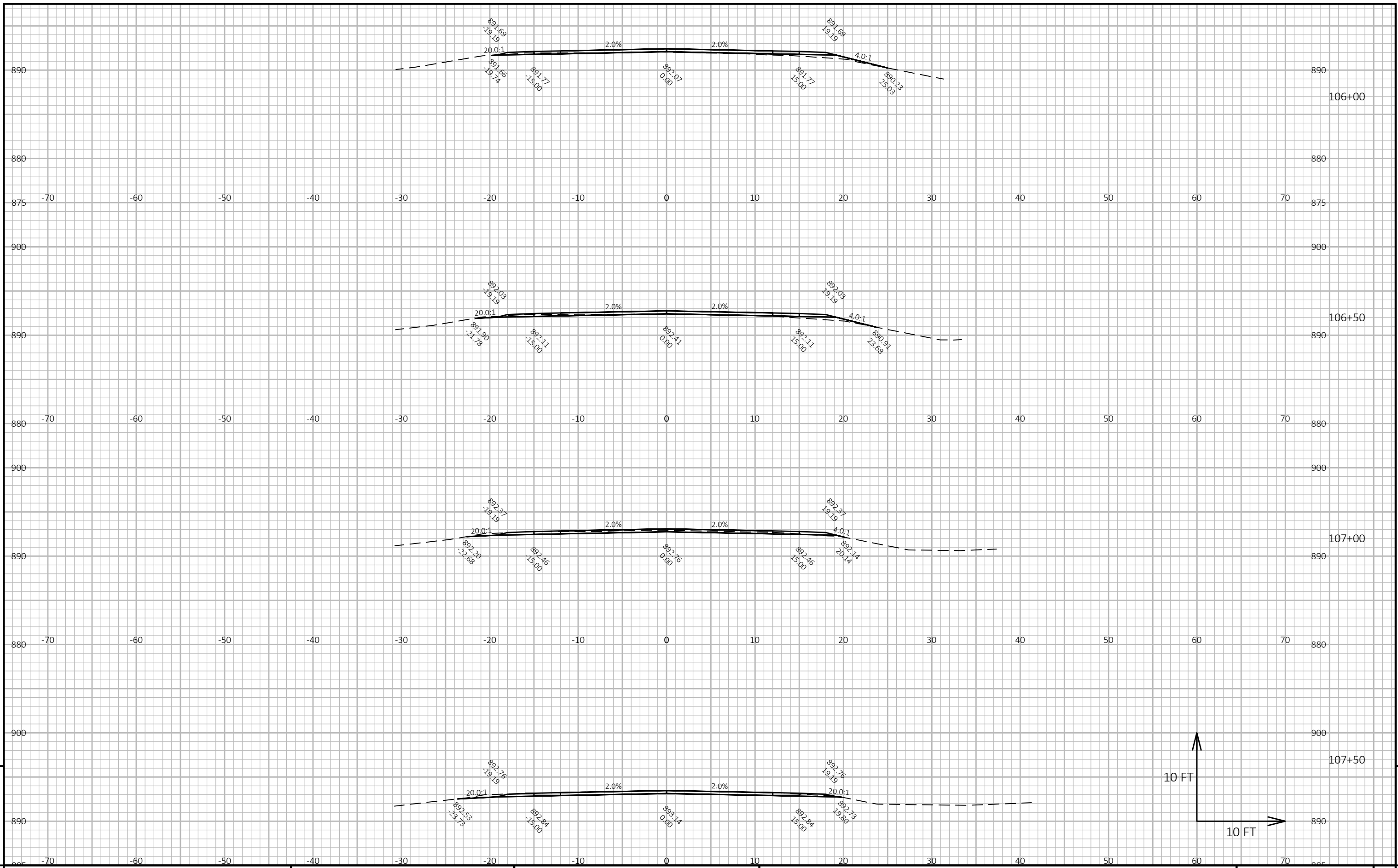
9

9

PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:20 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 57



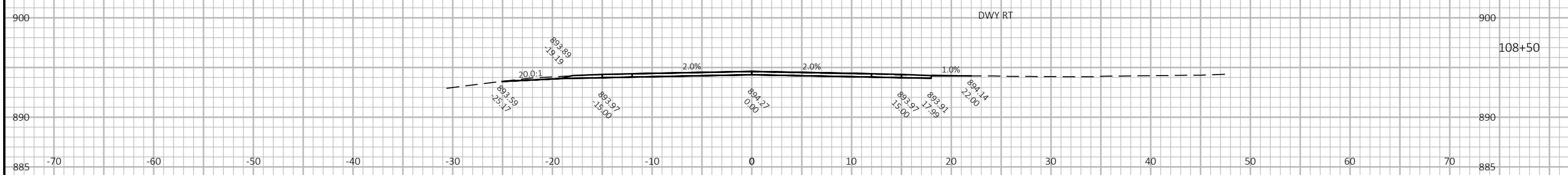
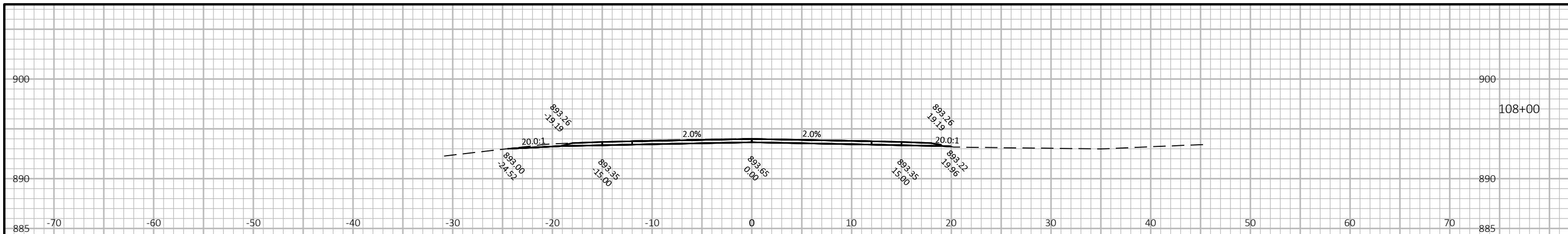
9

9

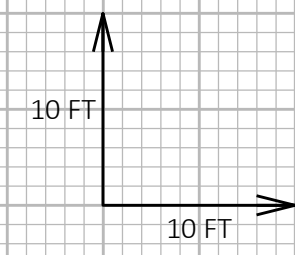
PROJECT NO: 4489-02-70 HWY: CTH G COUNTY: CALUMET CROSS SECTIONS: CTH G SHEET E

FILE NAME : X:\PROJECTS\CALUMET\CTH G (HWY 32 TO EAST JEFFERSON RD)\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG PLOT DATE : 7/8/2022 12:21 PM PLOT BY : KEVIN LOHFF PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 58



END PULVERIZE AND RELAY 109+25

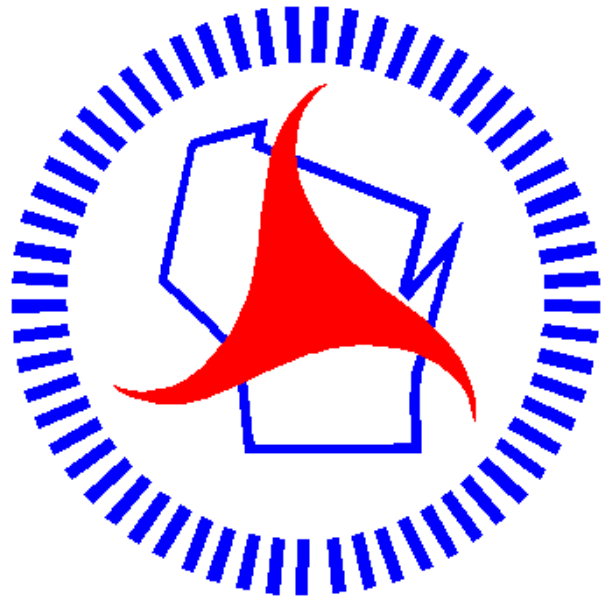


9

9

PROJECT NO: 4489-02-70	HWY: CTH G	COUNTY: CALUMET	CROSS SECTIONS: CTH G	SHEET	E
------------------------	------------	-----------------	-----------------------	-------	---

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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