GRE

NOVEMBER 2018

PROJECT ID: 4992-00-57

WITH: N/A

COUNTY: CALUMET

ORDER OF SHEETS

Section No. 1 Title
Section No. 2 Typical Sections and Details(Includes Erosion Control Plan)
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 = 376

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C MENASHA, CTH LP

USH 10/STH 114 TO CTH AP

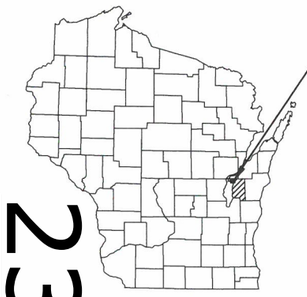
CTH LP

CALUMET COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4992-00-57	WISC 2018445	1

STATE PROJECT NUMBER
4992-00-57

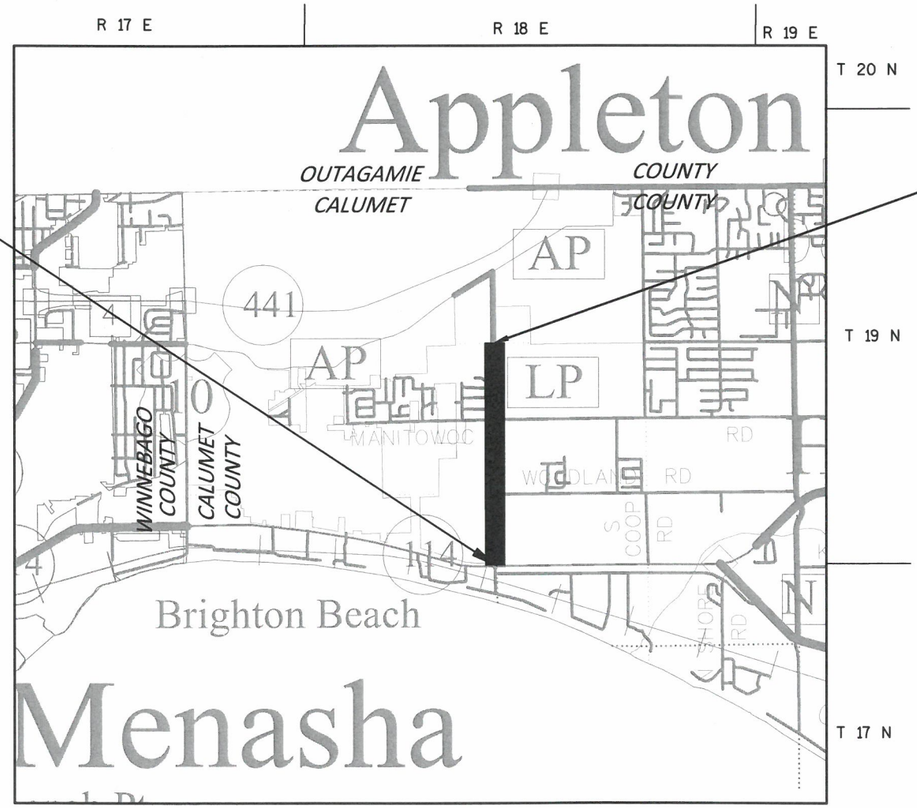
PROJECT LOCATION



N

BEGIN PROJECT
STA. 21+84.12
Y=542559.403
X=838807.576

END PROJECT
STA. 95+30.00



LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.391 MI.

DESIGN DESIGNATION

A.A.D.T.	2019	= 9,000
A.A.D.T.	2039	= 13,600
D.H.V.		= 1,714
D.D.		= 59/41
T.		= 3.7%
DESIGN SPEED		= 40 MPH
ESALS		= 1,400,000

CONVENTIONAL SYMBOLS

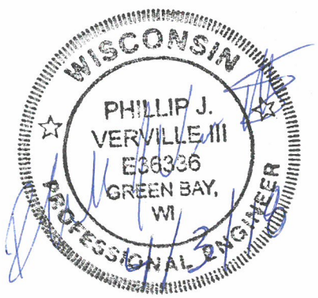
PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE	300'EB'	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
MARSH AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		POWER POLE	
		TELEPHONE POLE	

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, CALUMET COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ACCEPTED FOR
CALUMET COUNTY

4/5/18 (DATE) Brian P. Glaser (COUNTY HIGHWAY COMMISSIONER)

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES ASSOCIATES
Designer	AYRES ASSOCIATES
Management Consultant	JT ENGINEERING

APPROVED FOR THE DEPARTMENT
DATE: 4/10/18 (Management Consultant Signature)

E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\010101 TI.DWG
LAYOUT NAME - 010101 TI

PLOT DATE : 4/3/2018 10:07 AM

PLOT BY : VERVILLE, PHILLIP PLOT NAME :

WISDOT/CADDS SHEET 10

2

GENERAL NOTES

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

FILL, AS SHOWN ON THE PLAN SHEETS, PERTAINS TO EMBANKMENT CONSTRUCTED FROM EXCAVATION COMMON. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.33.

EXCAVATION BELOW SUBGRADE (EBS) WILL BE MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE EXACT LOCATION AND WIDTH OF PRIVATE ENTRANCES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS. BASE AGGREGATE DENSE 1 1/4-INCH WILL BE USED UNDER ALL DRIVEWAYS.

MAINTAIN DRIVING SURFACE TO ALL PROPERTY OWNERS WITH BASE AGGREGATE DENSE 1 1/4-INCH.

A SAW JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT AND ALSO WHERE NEW CONCRETE PAVEMENT MEETS EXISTING CONCRETE PAVEMENT.

SAW CUT LOCATIONS SHOWN ON THE PLAN ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD. THE LINE OF SUCH SAW CUTS WILL BE NEATLY DELINEATED THROUGH THE ASPHALT AND/OR CONCRETE STREETS, DRIVEWAYS AND/OR PARKING LOTS AT THE MATCH LINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER WITHOUT ANY DAMAGE TO THE REMAINING PORTION OF THE EXISTING PAVEMENT.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WETLANDS.

EROSION CONTROL MEASURES WILL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN. THE EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER. REMOVAL OF ITEMS ARE INCIDENTAL TO THE RESPECTIVE EROSION CONTROL BID ITEM COSTS.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL BY THE ENGINEER. FINAL LIMITS OF FENCE REMOVAL TO BE DETERMINED BY THE ENGINEER.

RESHAPE AND SEEDING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING MOTORISTS AND PEDESTRIANS THAT MAY ENTER THE WORK ZONE FROM POSSIBLE HAZARD.

CURB AND GUTTER ELEVATIONS ARE ALONG THE FLANGE LINE UNLESS OTHERWISE NOTED.

RADIUS POINTS, UNLESS OTHERWISE NOTED, ARE TO FACE OF CURB.

CURVE DATA IS BASED ON ARC DEFINITION.

BEARINGS SHOWN ON THIS PLAN ARE TRUE BEARINGS.

PROPERTY LINES SHOWN ARE APPROXIMATE.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF NAVD88 (2012).

UTILITIES

*** WE ENERGIES-ELECTRIC** — TELEPHONE 920-380-3369, CELL 920-858-6254
800 S. LYNNDALE DRIVE
APPLETON, WI 54912
ATTN: MR. REIJO MURTO
E-MAIL: reijo.murto@we-energies.com

*** WE ENERGIES-GAS** — TELEPHONE 920-242-563396
800 S. LYNNDALE DRIVE
APPLETON, WI 54912
ATTN: MS. HEATHER DEUTH
E-MAIL: heather.deuth@daarcorp.com

*** AT&T WISCONSIN** — TELEPHONE 920-737-3206, CELL 920-202-4002
221 W. WASHINGTON ST. 4TH FLOOR
APPLETON, WI 54911
ATTN: JOE KASSAB
E-MAIL: jk572k@att.com

*** MENASHA UTILITIES-ELECTRIC** — TELEPHONE 920-967-3422
321 MILWAUKEE STREET
P.O. BOX 340
MENASHA, WI 54952
ATTN: GREG SHULL
E_MAIL: gshull@wpplenergy.org

*** CHARTER COMMUNICATIONS** — TELEPHONE 920-831-9249
3545 PLANK ROAD
APPLETON, WI 54915
ATTN: MR. VINCE ALBIN
E-MAIL: vince.albin@charter.com

*** HARRISON UTILITIES** — TELEPHONE 920-731-0002, CELL 920-850-6864
N8722 COUNTY LP
MENASHA, WI 54952
ATTN: MR. TOM VAN ZEELAND
E-MAIL: tom@waverlysanitarydistrict.com

*** WISDOT-TRAFFIC SIGNALS** — TELEPHONE 920-360-4749
944 VANDERPERREN WAY
GREEN BAY, WI 54304
ATTN: MR. MATT TALCOTT
E-MAIL: matt.talcott@dot.wi.gov

***TELEPORT COMMUNICATIONS AMERICA** — TELEPHONE603-719-1483, CELL 630-390-0089
4513 WESTERN AVENUE
LISLE, IL 60532
ATTN: MR. BOBBY AKHTER

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

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 AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 20.8 ACRES
SOIL GROUP C

STANDARD ABBREVIATIONS

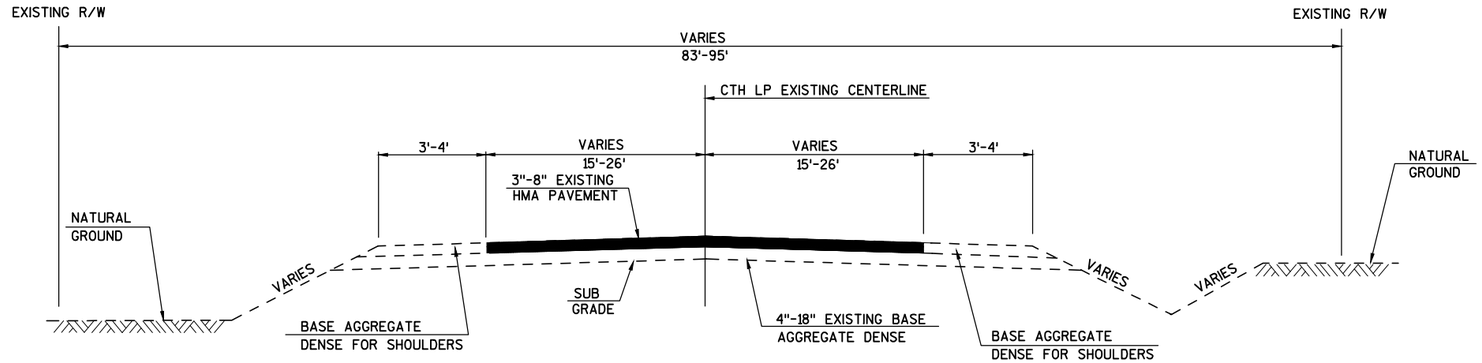
ADT	AVERAGE DAILY TRAFFIC	NC	NORMAL CROWN
AC	ASPHALT CEMENT	PT	POINT OF TANGENCY
AGG	AGGREGATE	PC	POINT OF CURVATURE
ASPH	ASPHALT	PI	POINT OF INTERSECTION
BM	BENCH MARK	PE	PRIVATE ENTRANCE
C/L	CENTERLINE	R	RADIUS
CONC	CONCRETE	REM	REMOVE
CMP	CORRUGATED METAL PIPE	R/L OR RL	REFERENCE LINE
CR.	CREEK	RCCP	REINFORCED CONCRETE CULVERT PIPE
D	DEGREE OF CURVE	RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
DHV	DESIGN HOUR VOLUME	R.O.	RUNOUT
ESALS	EQUIVALENT SINGLE AXIS LOADS	R/W	RIGHT-OF-WAY
EXIST	EXISTING	STA	STATION
FE	FIELD ENTRANCE	SE	SUPER ELEVATION
HYD	HYDRANT	SS	STORM SEWER
IP	IRON PIPE OR PIN	T	TANGENT
L	LENGTH OF CURVE	TEL	TELEPHONE
LC	LONG CHORD OF CURVE	TLE	TEMPORARY LIMITED EASEMENT
LR	LENGTH OF RUNOFF	T	TRUCKS
MH	MANHOLE	VC	VERTICAL CURVE
		W	WELL

DEPARTMENT OF NATURAL RESOURCES

WDNR — TELEPHONE 920-366-1544
2984 SHAWANO AVE.
P.O. BOX 10448
GREEN BAY, WISCONSIN 54313
ATTENTION: MATT SCHAEVE
E-MAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

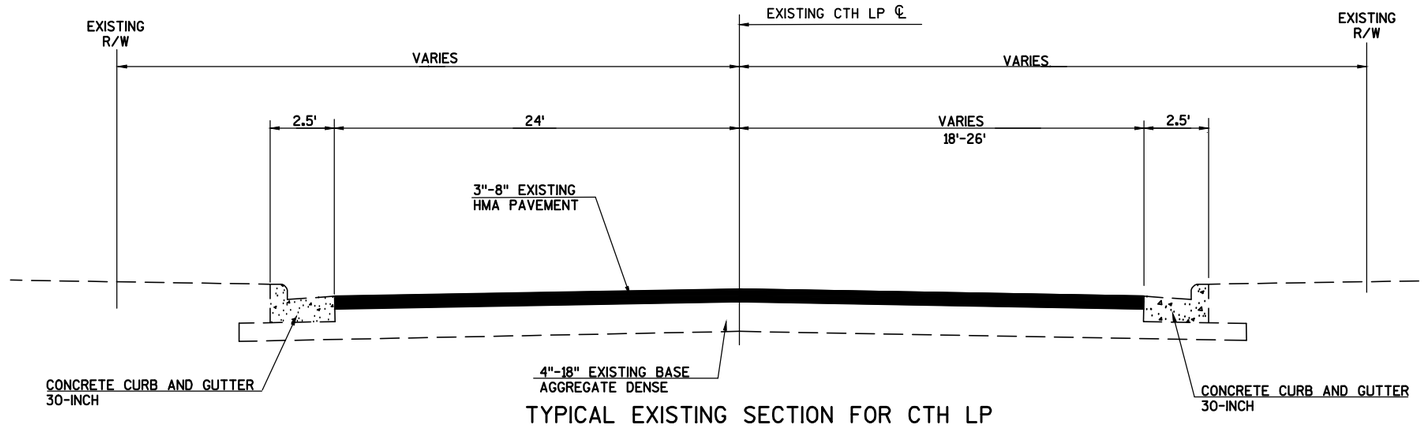
ORDER OF SECTION 2 SHEETS

GENERAL NOTES & CONTACTS
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
PAVING GRADES
EROSION CONTROL
STORM SEWER
PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL



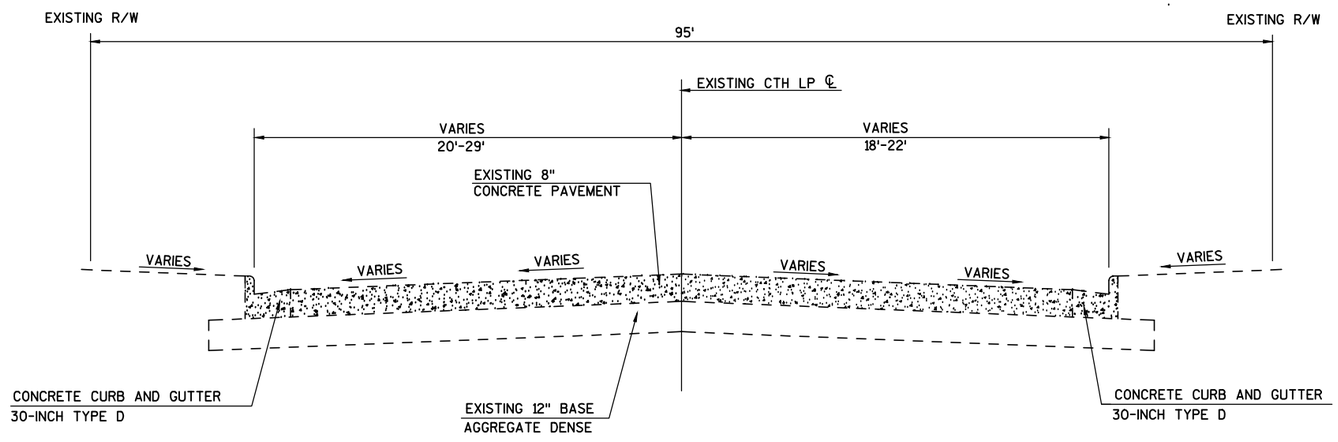
EXISTING TYPICAL SECTION FOR CTH LP

STA. 21+84.12-STA. 46+75 RT.
STA. 21+84.12-STA. 58+35 LT.
STA. 61+60-STA. 95+14 LT.
STA. 62+18-STA. 95+14 RT.



TYPICAL EXISTING SECTION FOR CTH LP

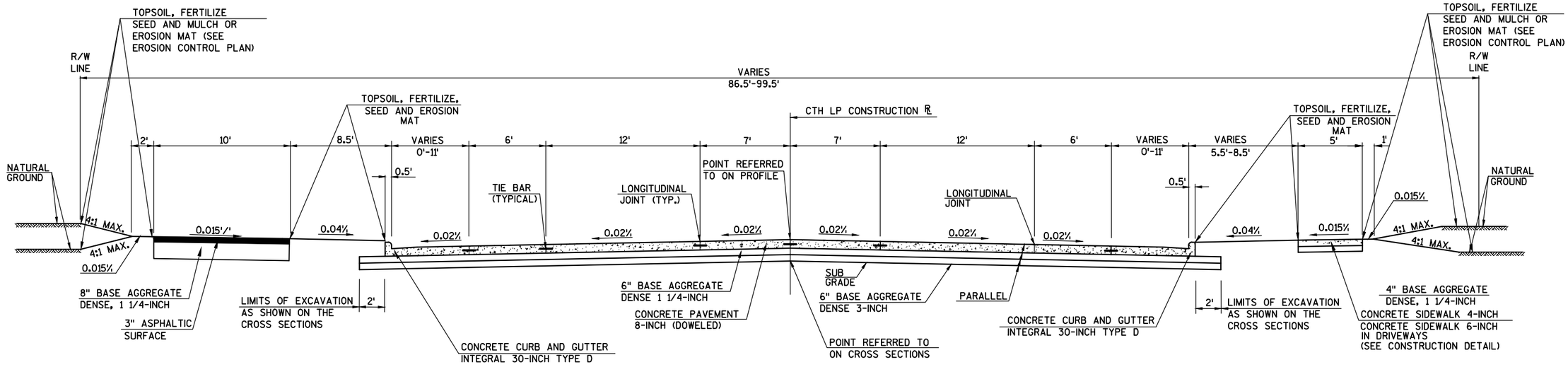
STA. 46+75-STA. 62+18 RT.
STA. 58+35-STA. 61+60 LT.



EXISTING TYPICAL SECTION FOR CTH LP

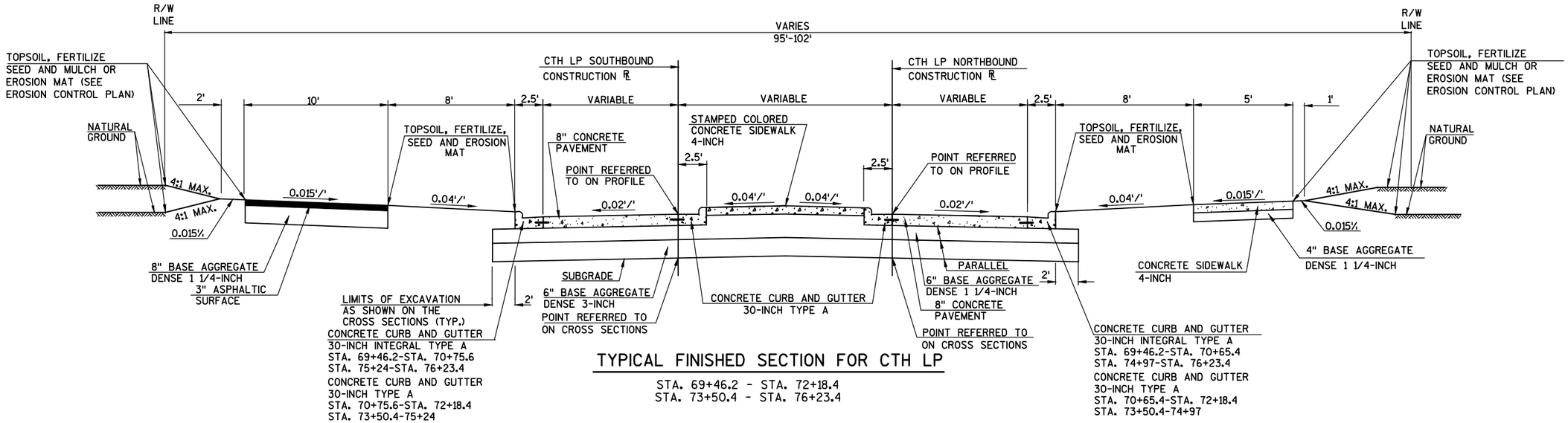
STA. 95+14 - STA. 96+42.3

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	TYPICAL SECTIONS	SHEET 3	E



TYPICAL FINISHED CROSS SECTION FOR CTH LP

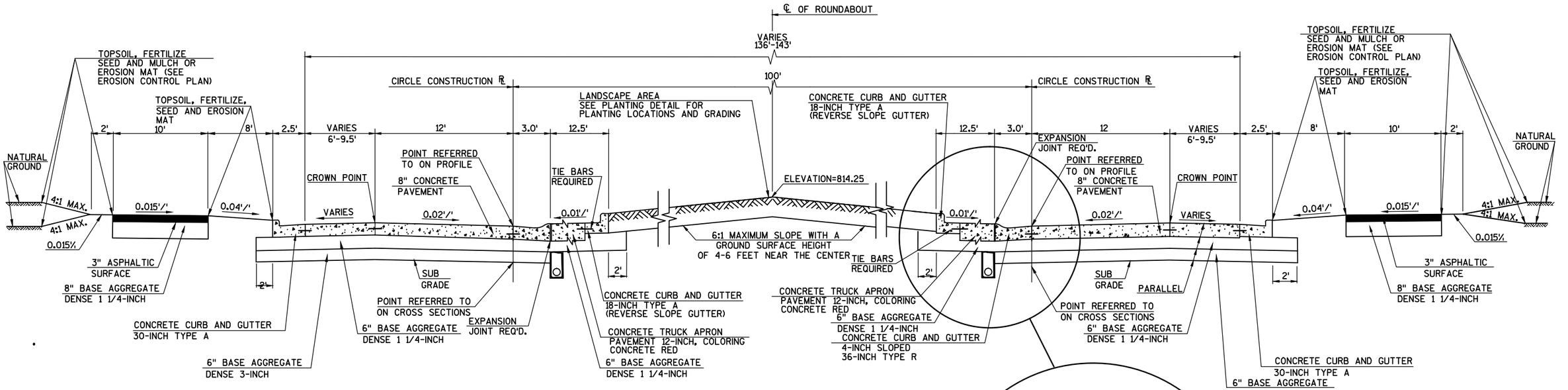
STA. 21+84.1-STA. 69+46.2
STA. 76+23.4-STA. 95+30



TYPICAL FINISHED SECTION FOR CTH LP

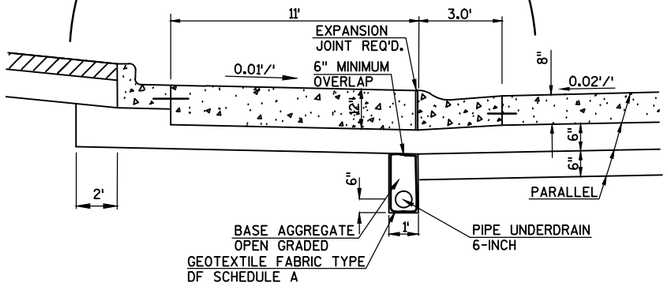
STA. 69+46.2 - STA. 72+18.4
STA. 73+50.4 - STA. 76+23.4

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	TYPICAL SECTIONS	SHEET 4	E



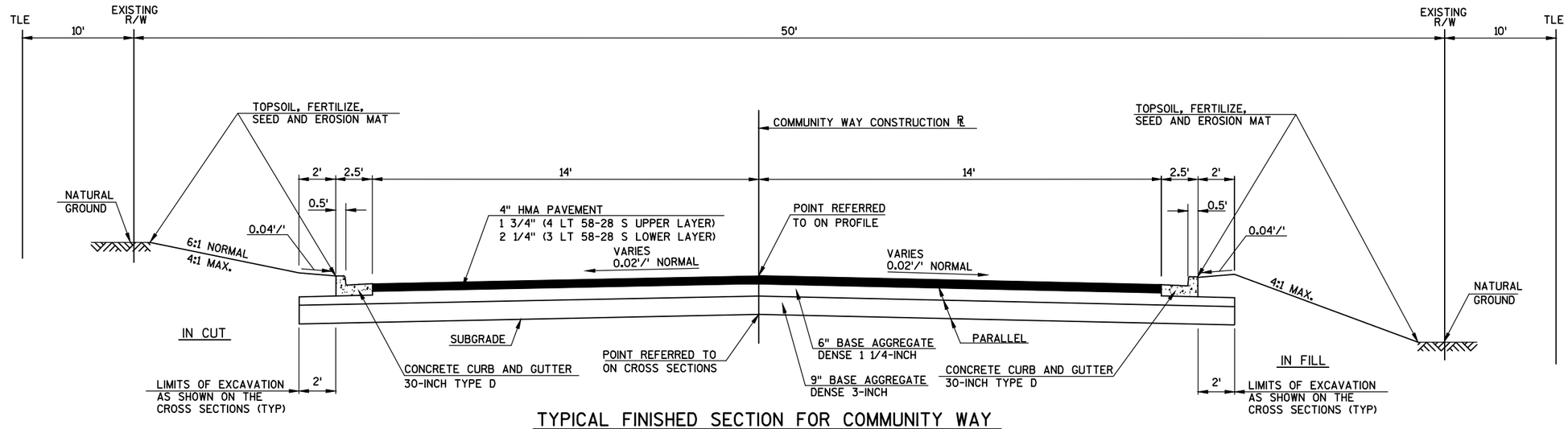
TYPICAL FINISHED SECTION FOR CTH LP/MANITOWOC RD.

ROUNDABOUT DETAIL



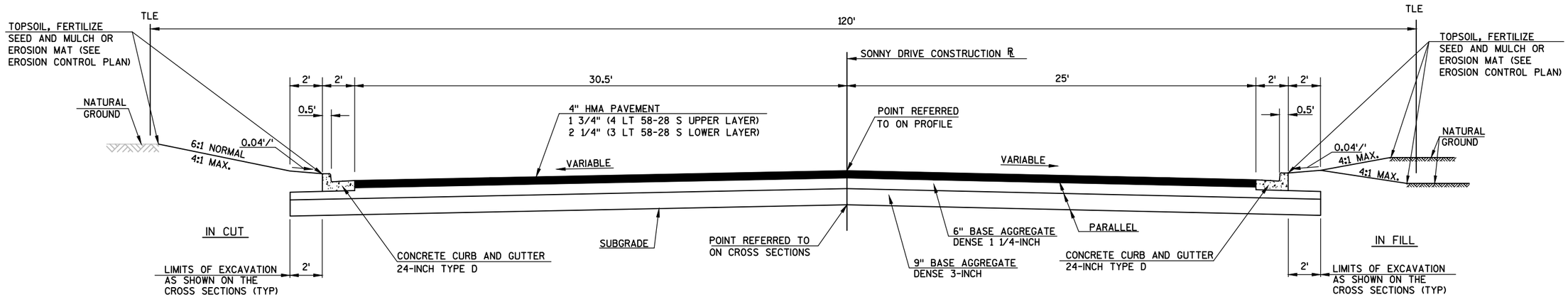
TRUCK APRON (TYPICAL)

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	TYPICAL SECTIONS	SHEET 5	E



TYPICAL FINISHED SECTION FOR COMMUNITY WAY

STA. 99+00 - STA. 99+50

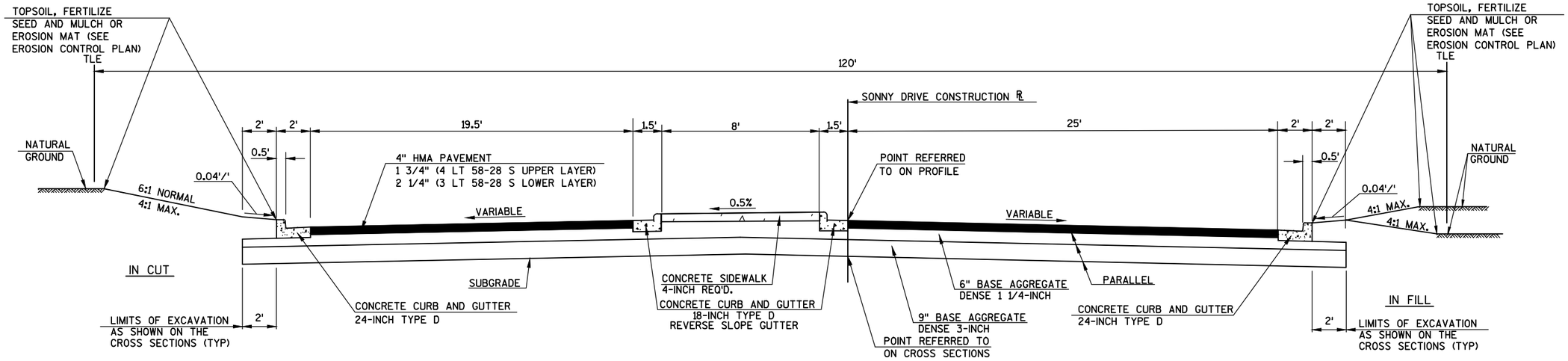


TYPICAL FINISHED SECTION FOR SONNY DRIVE

STA. 198+80 - STA. 199+13.8

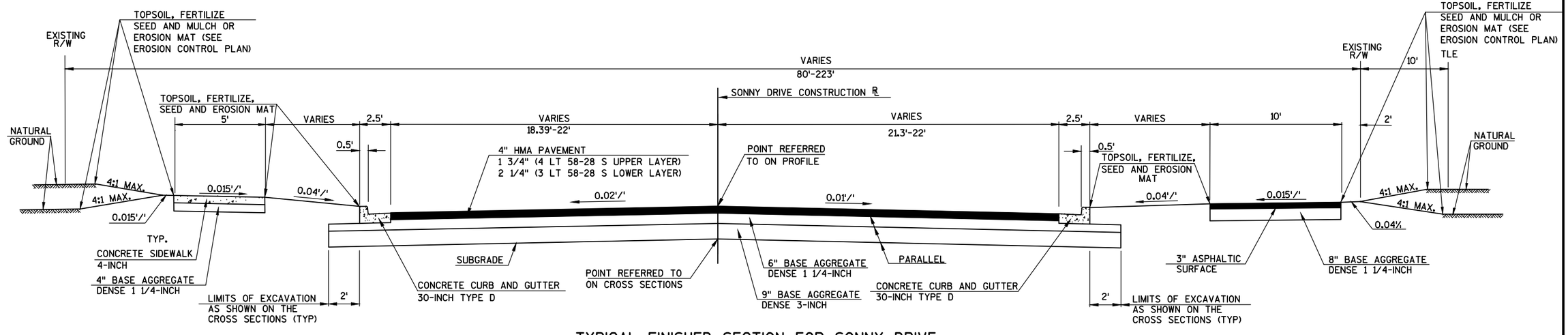
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	TYPICAL SECTIONS	SHEET 6	E

2



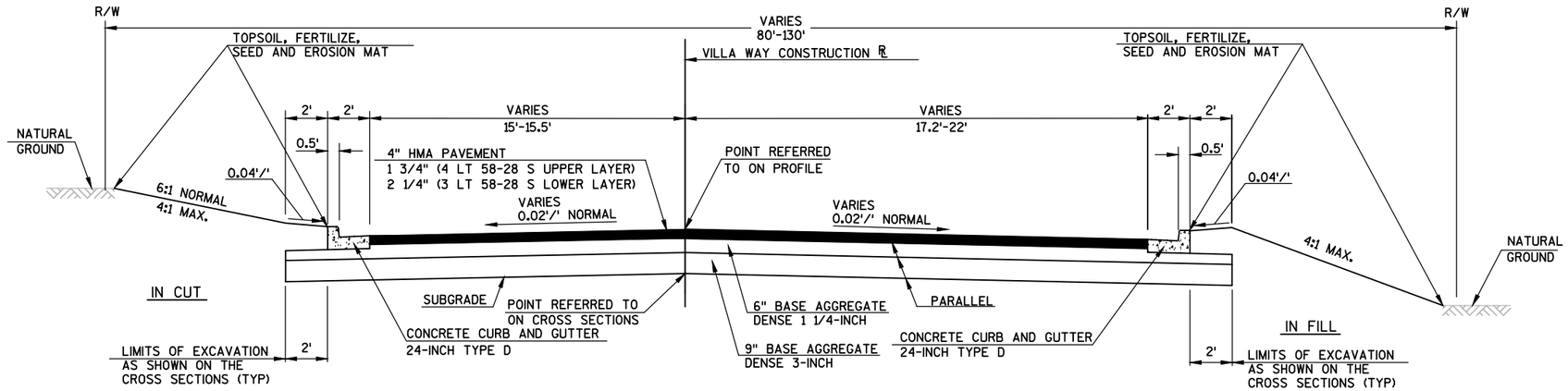
TYPICAL FINISHED SECTION FOR SONNY DRIVE

STA. 199+13.8 - STA. 199+49.8



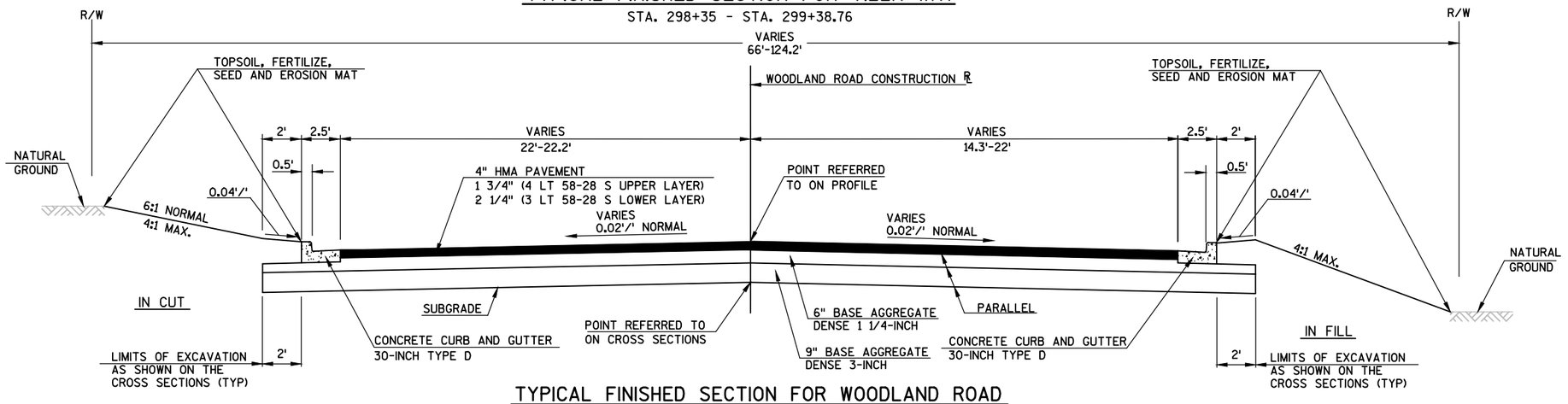
TYPICAL FINISHED SECTION FOR SONNY DRIVE

STA. 200+66.2 - STA. 201+44



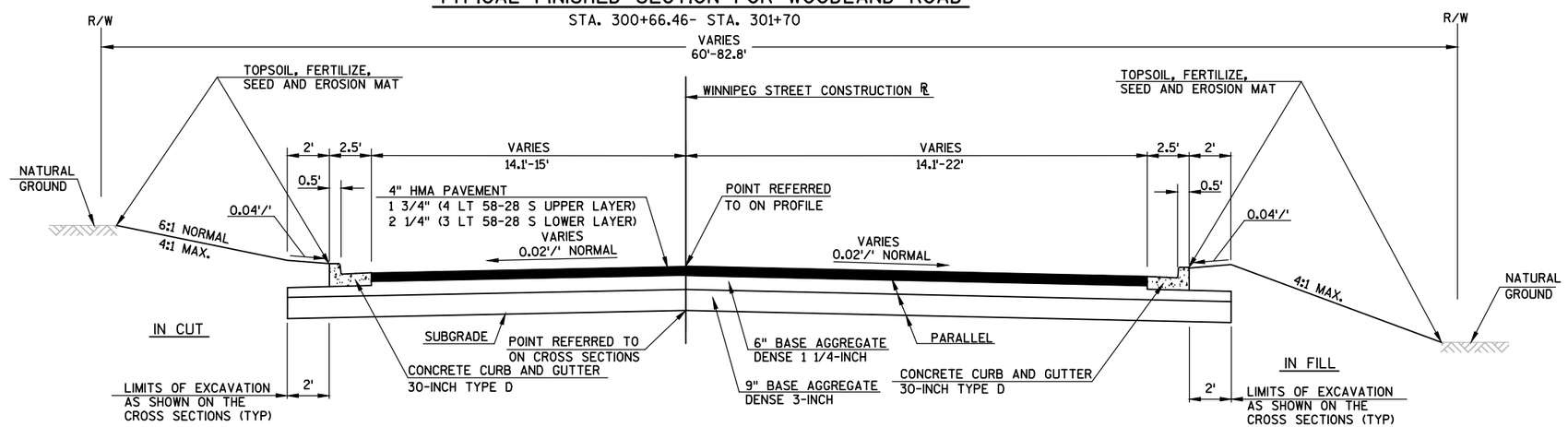
TYPICAL FINISHED SECTION FOR VILLA WAY

STA. 298+35 - STA. 299+38.76



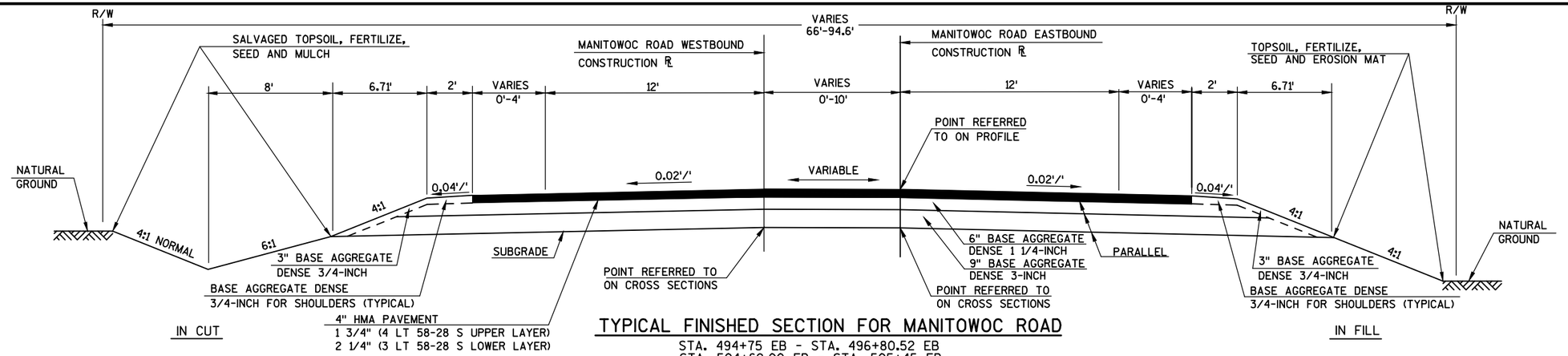
TYPICAL FINISHED SECTION FOR WOODLAND ROAD

STA. 300+66.46- STA. 301+70



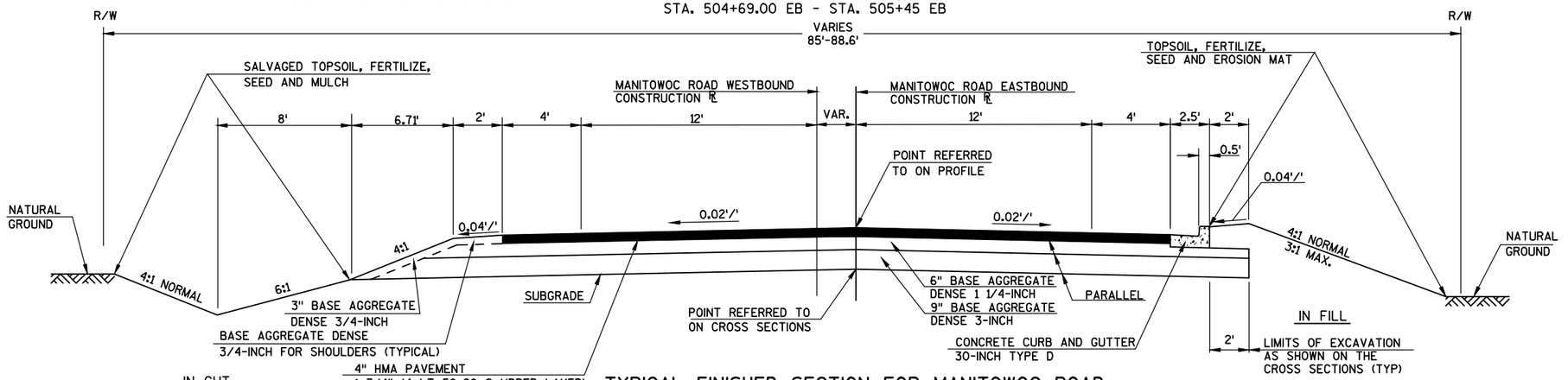
TYPICAL FINISHED SECTION FOR WINNIPEG STREET

STA. 398+35 - STA. 399+49.03 LT.
STA. 398+60 - STA. 399+49.03 RT.



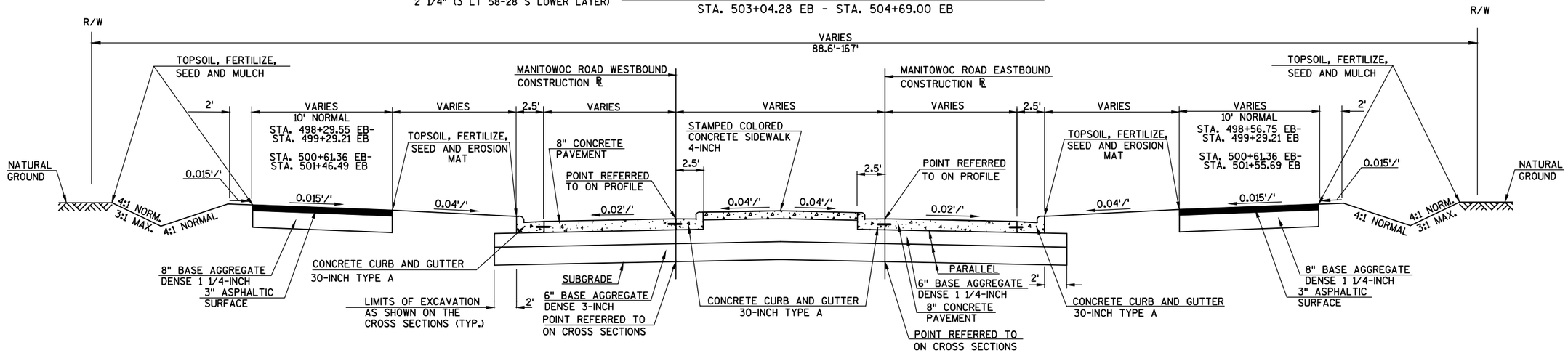
TYPICAL FINISHED SECTION FOR MANITOWOC ROAD

STA. 494+75 EB - STA. 496+80.52 EB
STA. 504+69.00 EB - STA. 505+45 EB



TYPICAL FINISHED SECTION FOR MANITOWOC ROAD

STA. 503+04.28 EB - STA. 504+69.00 EB

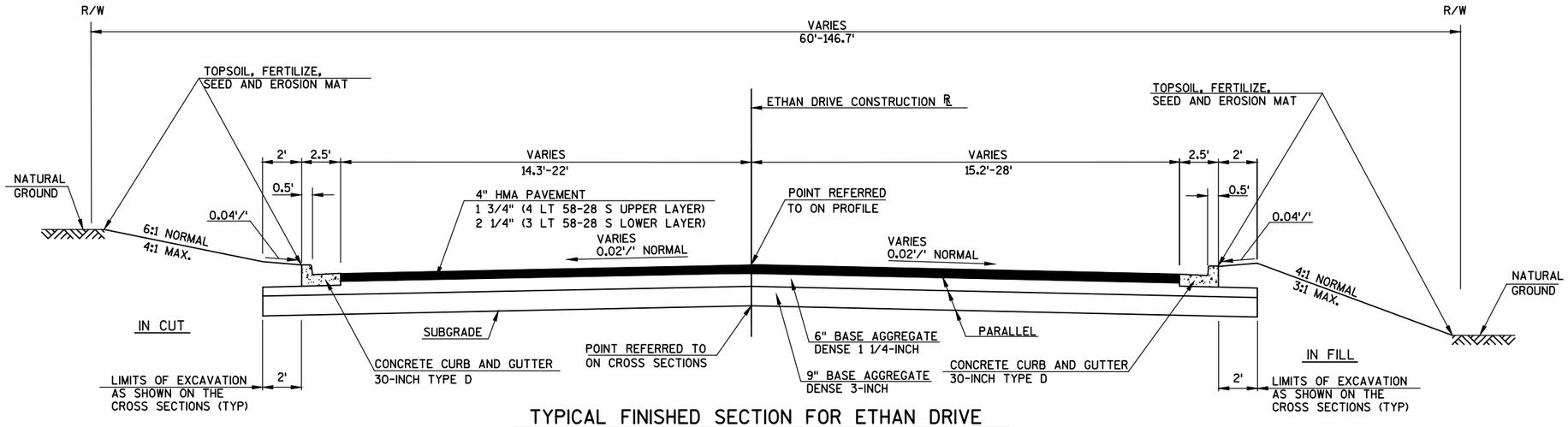


TYPICAL FINISHED SECTION FOR MANITOWOC ROAD

STA. 496+80.52 EB - STA. 499+29.21 EB
STA. 500+61.36 EB - STA. 503+04.28 EB

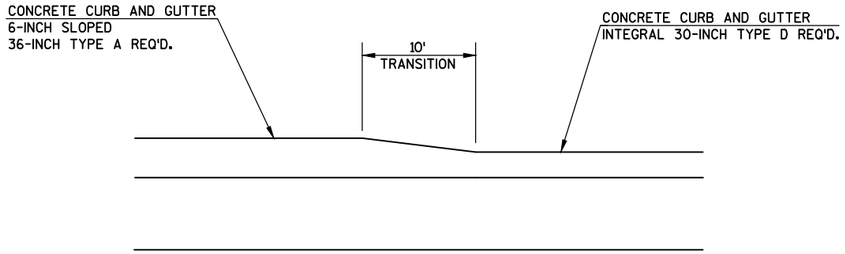
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	TYPICAL SECTIONS	SHEET 9	E

2



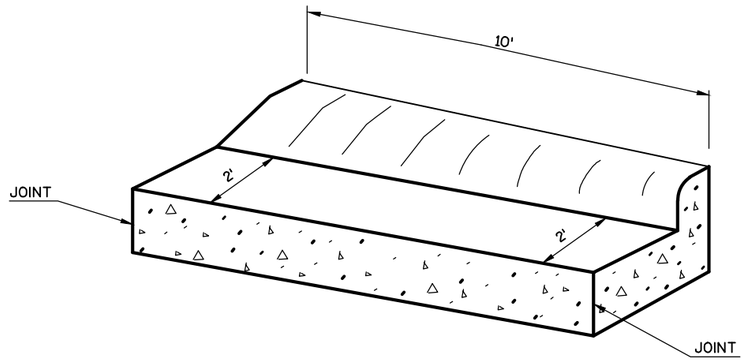
TYPICAL FINISHED SECTION FOR ETHAN DRIVE

STA. 598+25 - STA. 599+44.8
STA. 600+65.7 - STA. 601+25



CONCRETE CURB AND GUTTER TRANSITION DETAIL

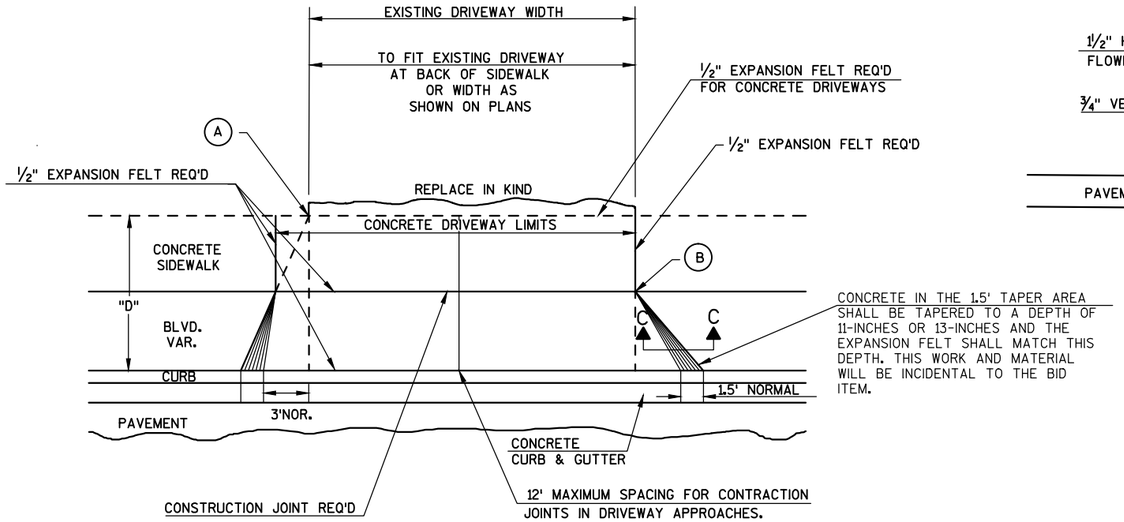
SEE PLAN DETAIL SHEETS FOR LOCATION



CONCRETE CURB AND GUTTER TRANSITION DETAIL

CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A TO CONCRETE CURB AND GUTTER INTEGRAL 30-INCH TYPE D

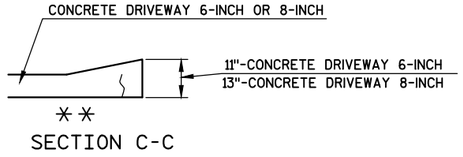
(TO BE MEASURED AND PAID FOR AS CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A)



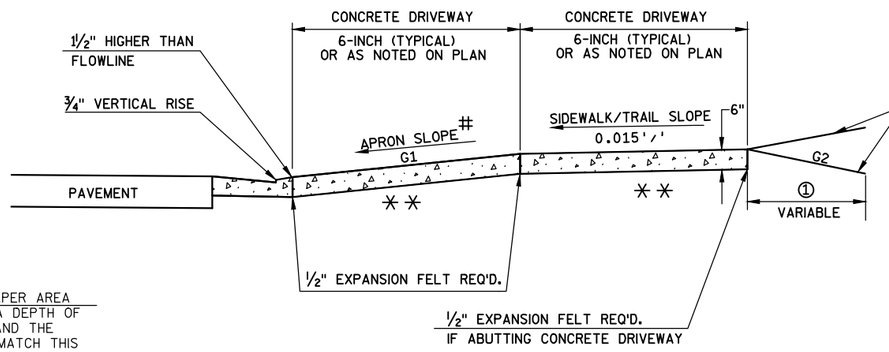
Ⓐ WHEN "D" IS 13' OR LESS, ALIGN TAPER WITH BACK OF SIDEWALK

Ⓑ WHEN "D" IS GREATER THAN 13', ALIGN TAPER WITH FRONT OF SIDEWALK

PLAN VIEW



SECTION C-C



TYPICAL SIDEWALK SECTION

① — 10" BASE AGG. DENSE 1 1/4-INCH BASE WITH 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

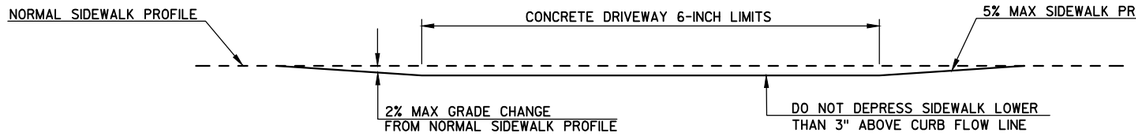
✳✳ = 6" BASE AGG. DENSE 1 1/4-INCH REQ'D UNDER CONCRETE DRWY

\#

TERRACE WIDTH	APRON SLOPE (G1) MIN %	DESIRABLE %	MAX %
3 FT	7.0	8.5	9.0
4 FT	5.0	7.0	9.0
5 FT	4.0	7.0	9.0
6 FT	4.0	7.0	9.0
7 FT	3.5	7.0	9.0
8 FT	3.0	7.0	9.0

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

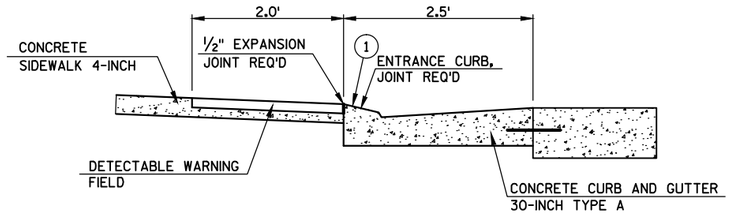
DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE



DEPRESSED SIDEWALK PROFILE DETAIL

DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB AND GUTTER

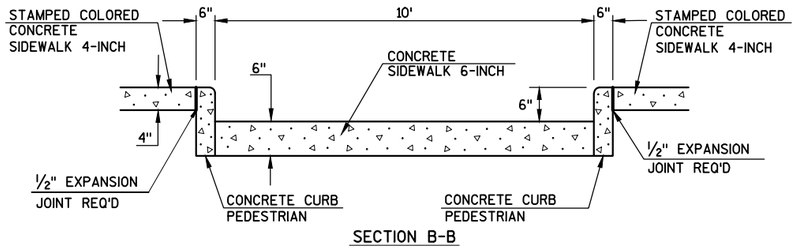
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CONSTRUCTION DETAILS	SHEET 11	E



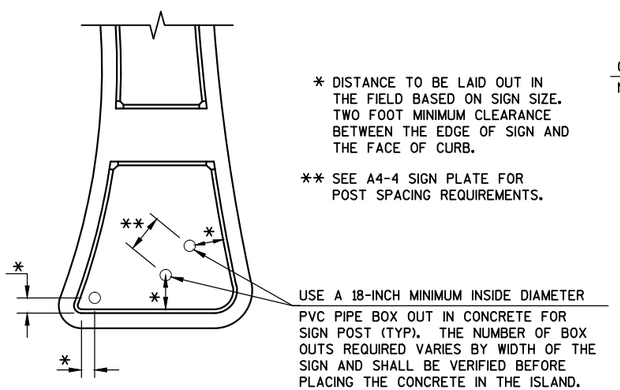
SECTION A-A

1 NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%.

SECTION C-C



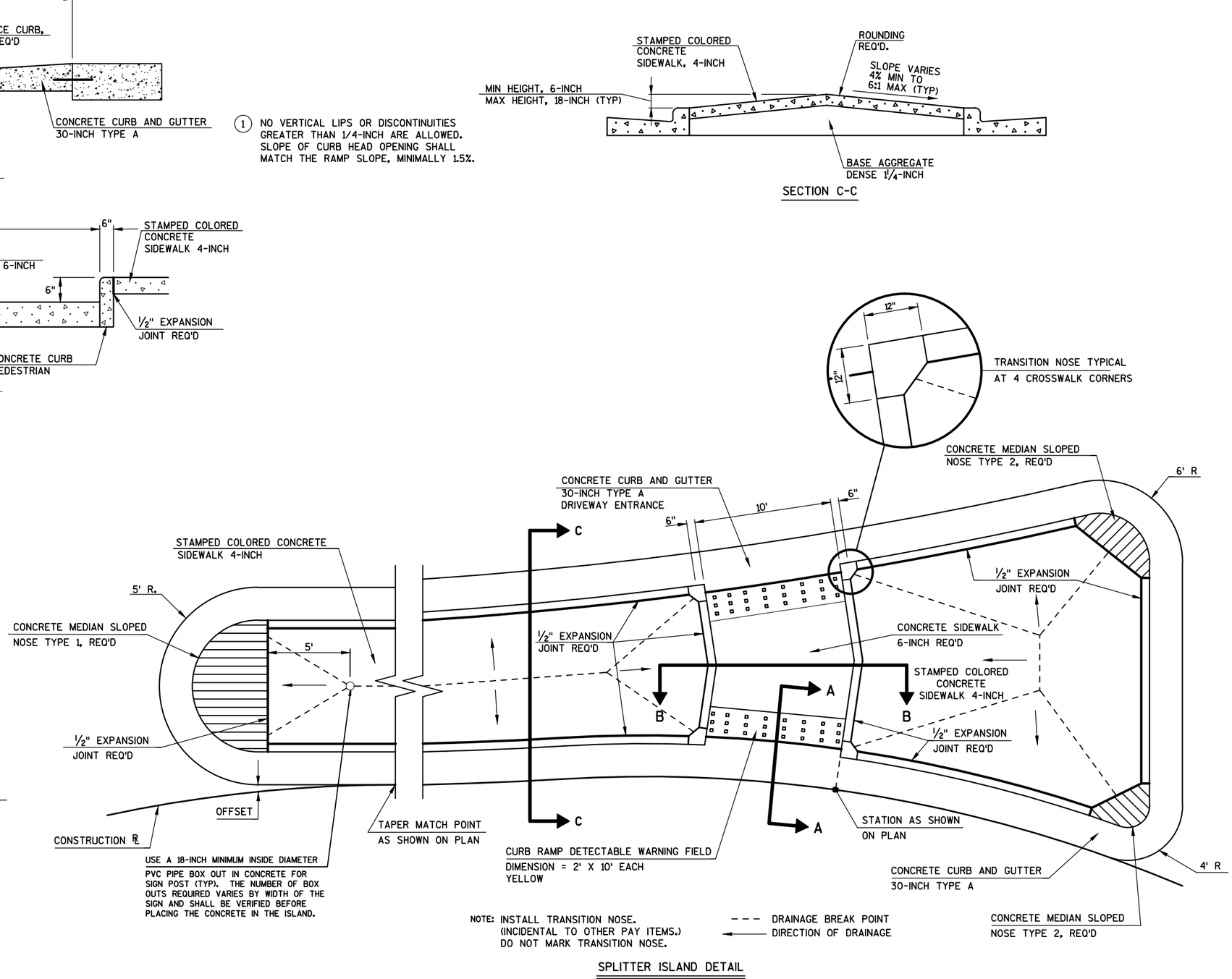
SECTION B-B



* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

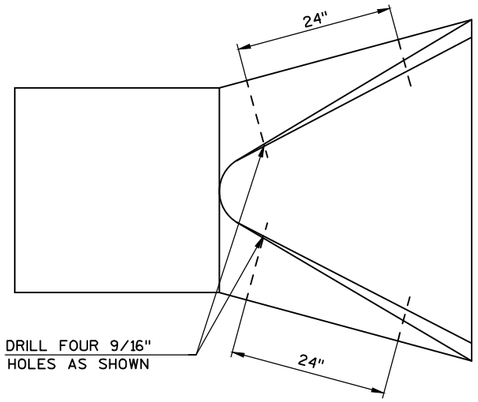
** SEE A4-4 SIGN PLATE FOR POST SPACING REQUIREMENTS.

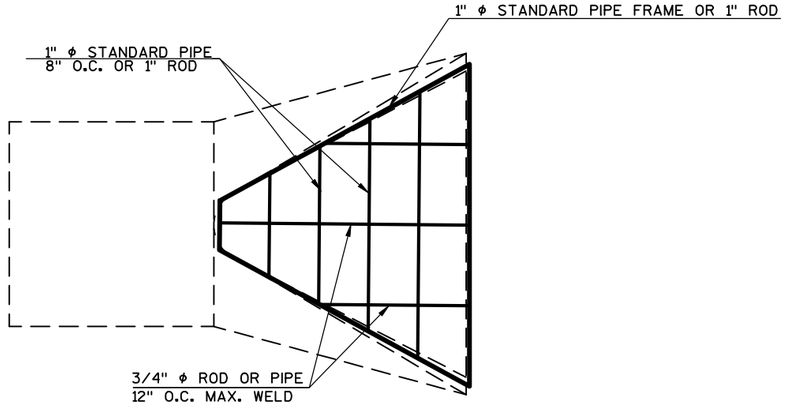
USE A 18-INCH MINIMUM INSIDE DIAMETER PVC PIPE BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.



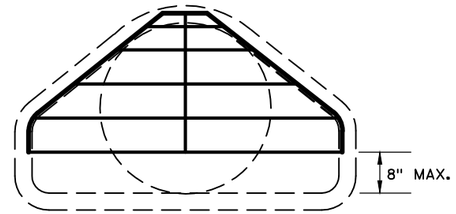
SPLITTER ISLAND DETAIL

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CONSTRUCTION DETAILS	SHEET 12	E



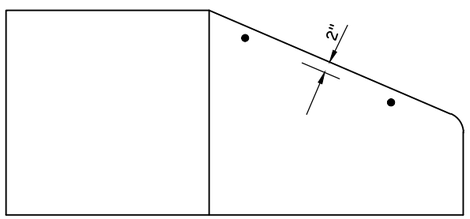


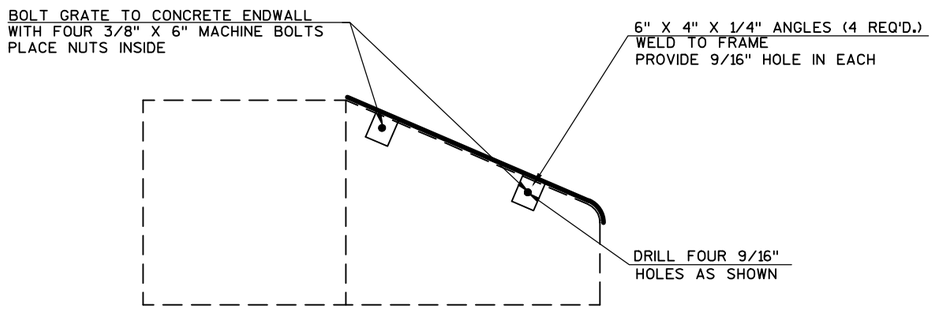
AT EACH PIPE

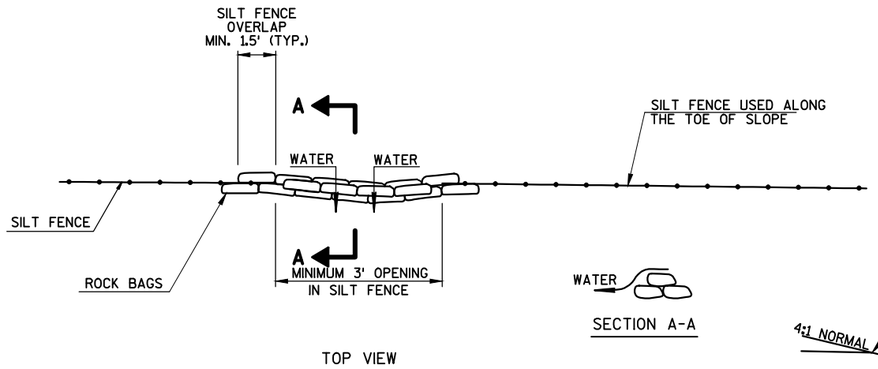


PIPE GRATE DETAIL

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



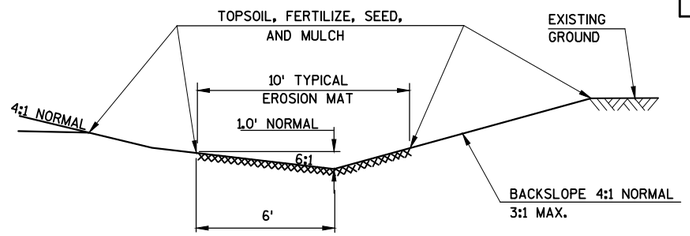




TOP VIEW

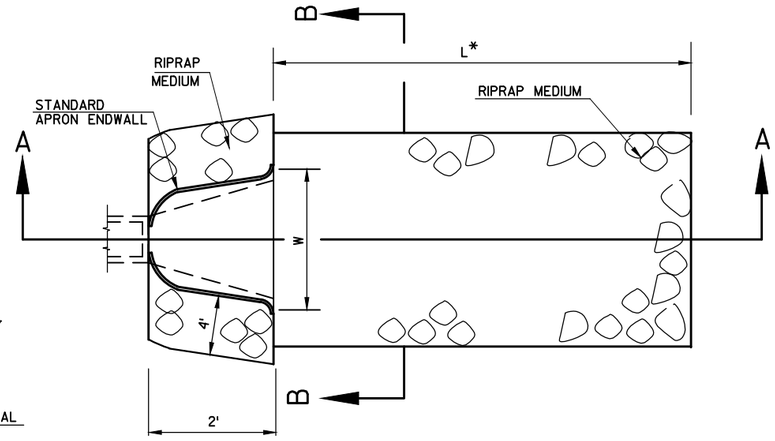
ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

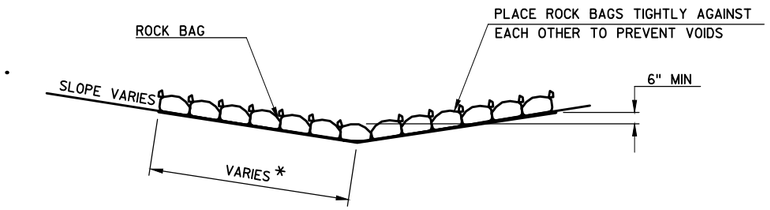


TYPICAL INSTALLATION FOR EROSION MAT

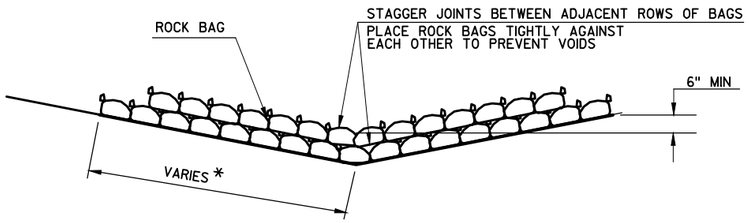
DITCH LINING
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



*L = 3 TIMES DIAMETER (NORMAL) OR
10' MIN. OR AS DIRECTED BY THE
ENGINEER



SIDE VIEW (SINGLE LAYER)

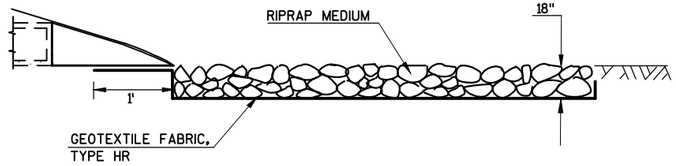


* LENGTH AND NUMBER OF BAGS MAY VARY
DEPENDING ON DESIRED DEPTH OF WATER POOL

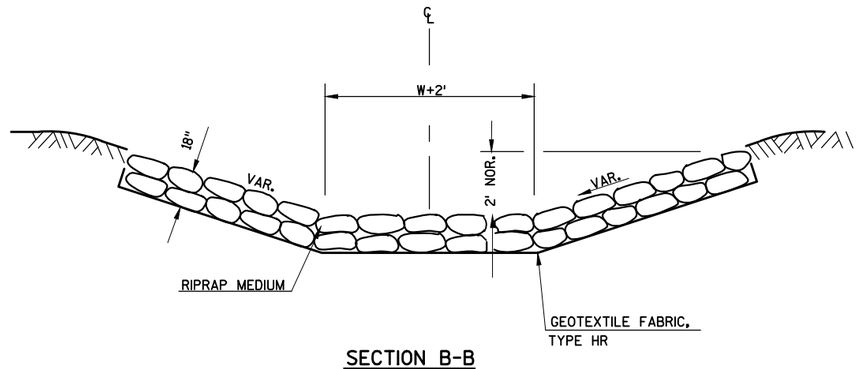
SIDE VIEW (MULTIPLE LAYER)

ROCK BAGS DITCH CHECK

PAID AS ROCK BAGS
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



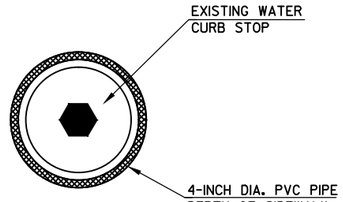
SECTION A-A



SECTION B-B

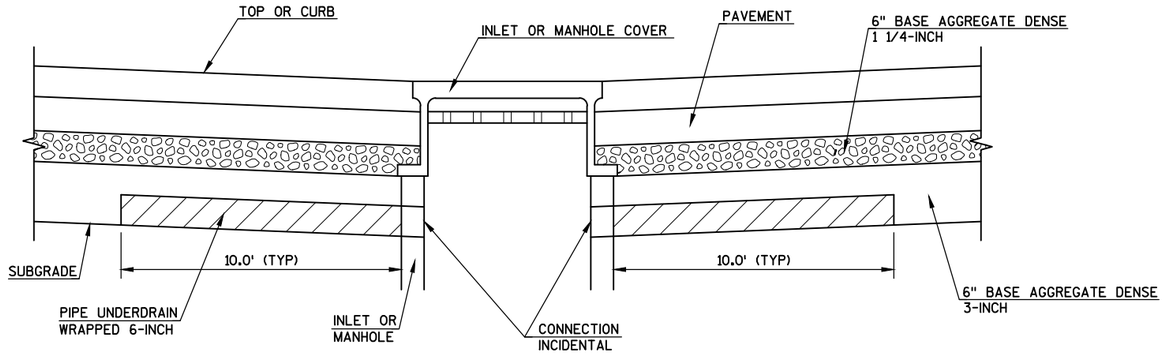
RIPRAP MEDIUM AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

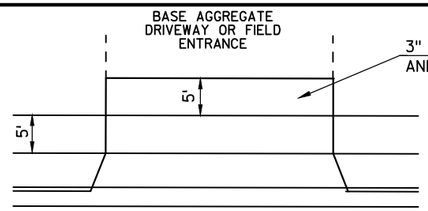


NOTE:
COST OF PVC PIPE IS
INCIDENTAL TO ITEMS
OF CONCRETE SIDEWALK

DETAIL FOR WATER CURB STOP IN SIDEWALK

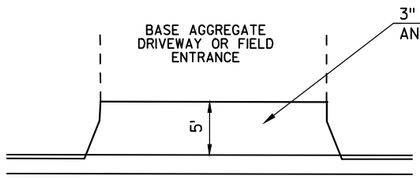


PIPE UNDERDRAIN DETAIL
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



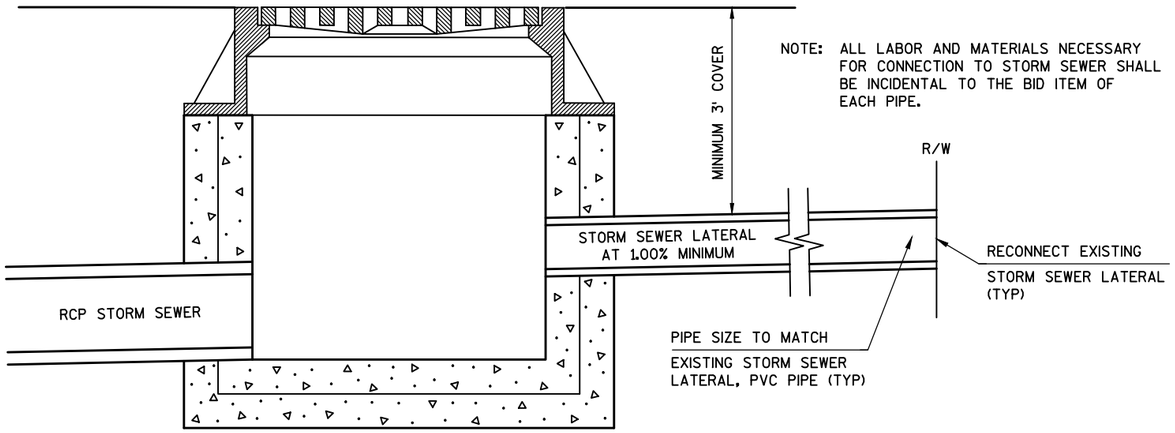
ADDITIONAL ASPHALTIC SURFACE FOR BASE AGGREGATE DENSE DRIVEWAYS WITH SIDEWALK

STA. 27+75
STA. 38+00
STA. 39+85
STA. 63+60
STA. 67+50
STA. 94+75

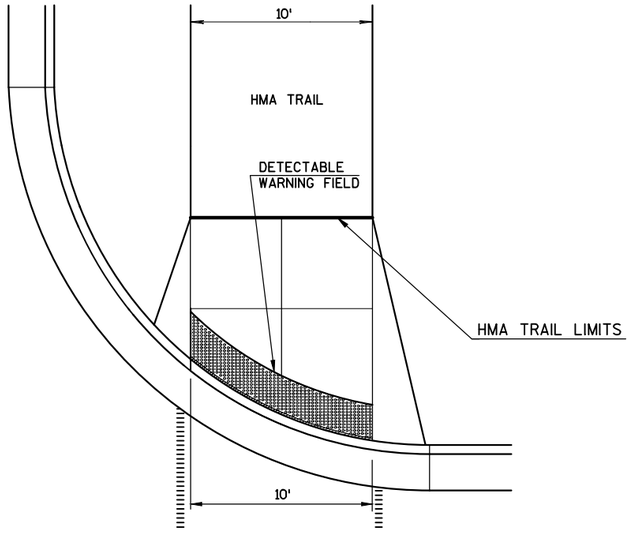


ADDITIONAL ASPHALTIC SURFACE FOR BASE AGGREGATE DENSE DRIVEWAYS WITHOUT SIDEWALK

STA. 497+85
STA. 502+50
STA. 503+25
STA. 504+35

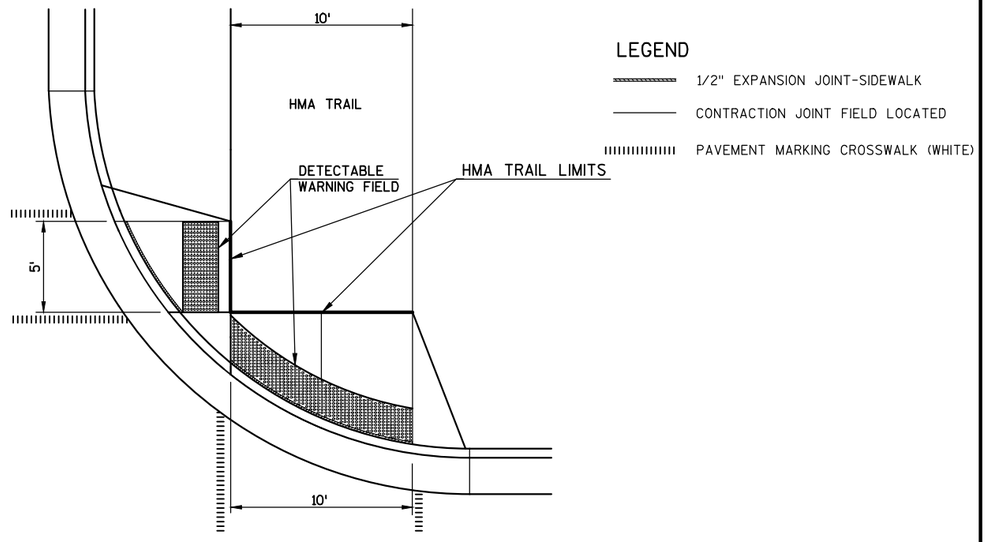


RECONNECT STORM SEWER LATERAL DETAIL



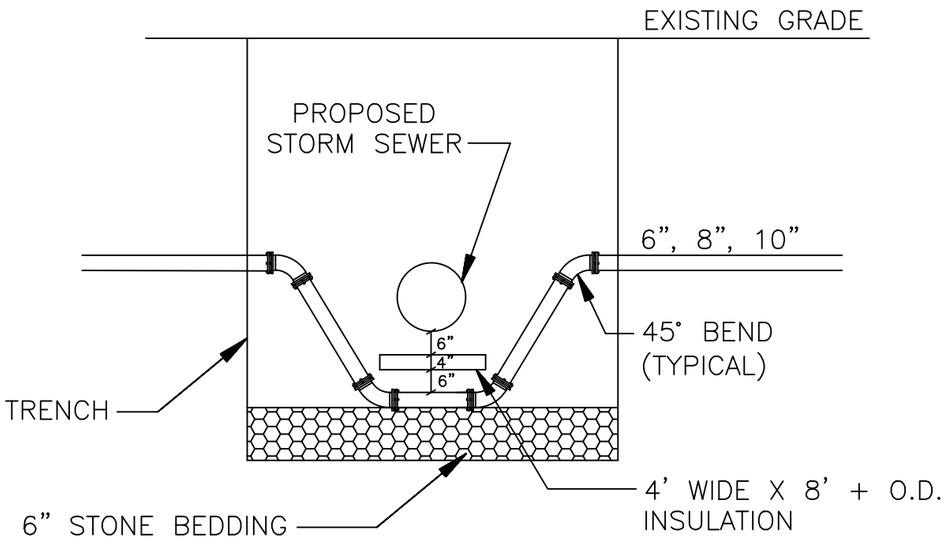
TYPE 4B1 RAMP WITH RADIAL WARNING FIELD SPECIAL

(SEE SDD "CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATION" FOR ADDITIONAL DETAILS)



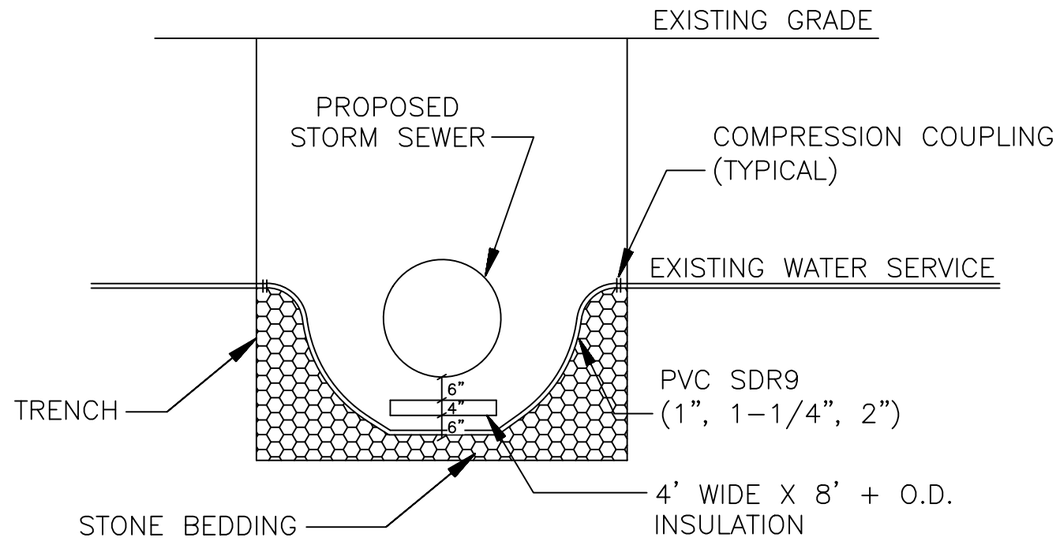
TYPE 2 RAMP WITH RADIAL WARNING FIELD SPECIAL

(SEE SDD "CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATION" FOR ADDITIONAL DETAILS)



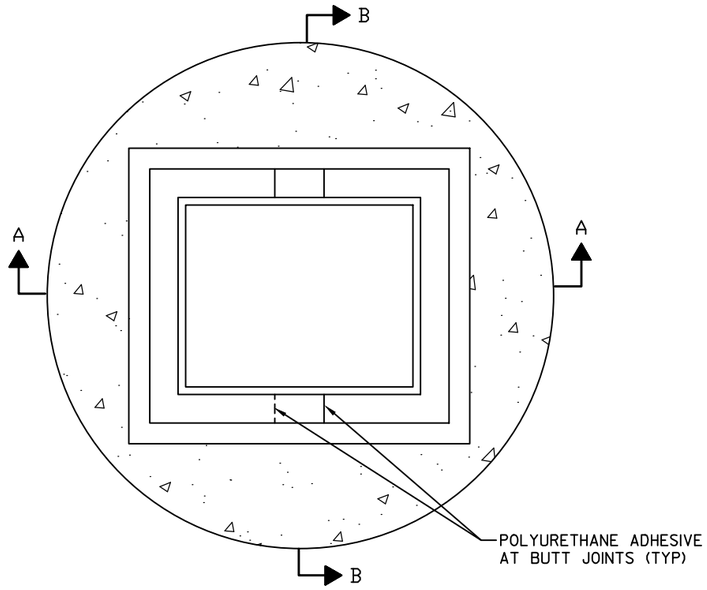
NOTE: MEGALUG ALL FITTINGS.

WATER MAIN RELOCATION DETAIL



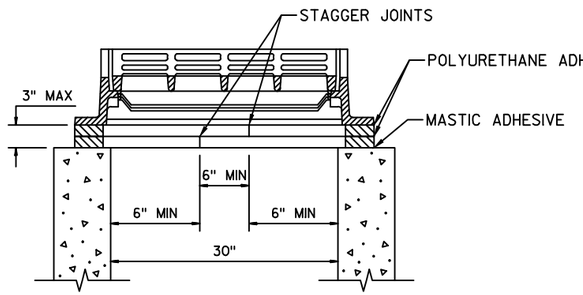
WATER SERVICES RELOCATION DETAIL

2

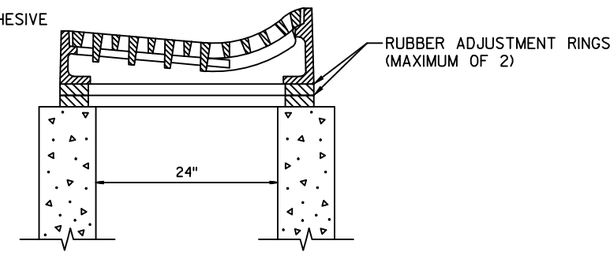


PLAN VIEW

NOTE: ALL CUTS MADE TO RUBBER ADJUSTMENT RINGS WILL BE PERPENDICULAR AND PROVIDE A TIGHT JOINT.



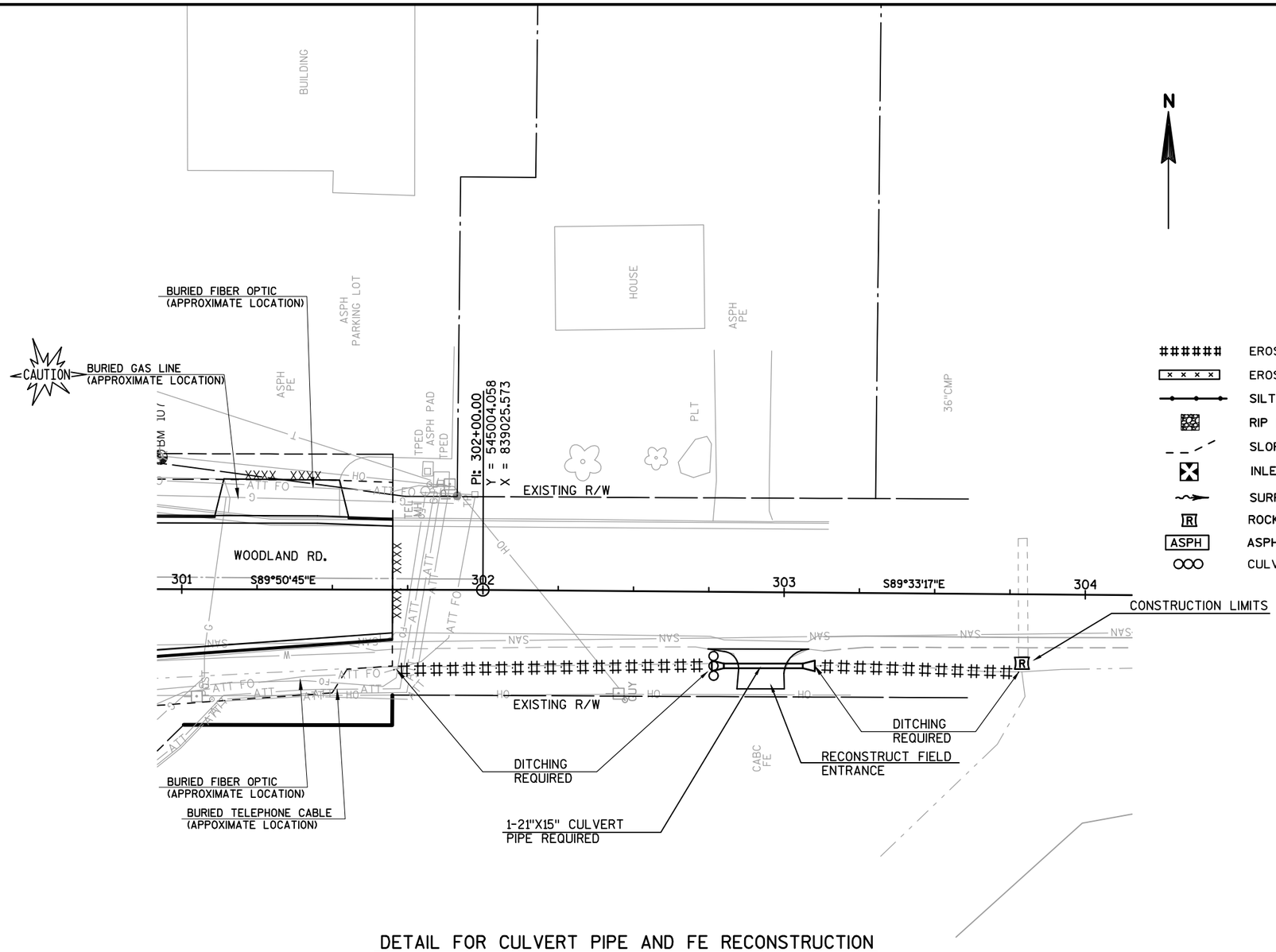
SECTION A-A



SECTION B-B

RUBBER RING CUTTING DETAIL FOR CATCH BASINS WITH TYPE "T" CASTINGS

2

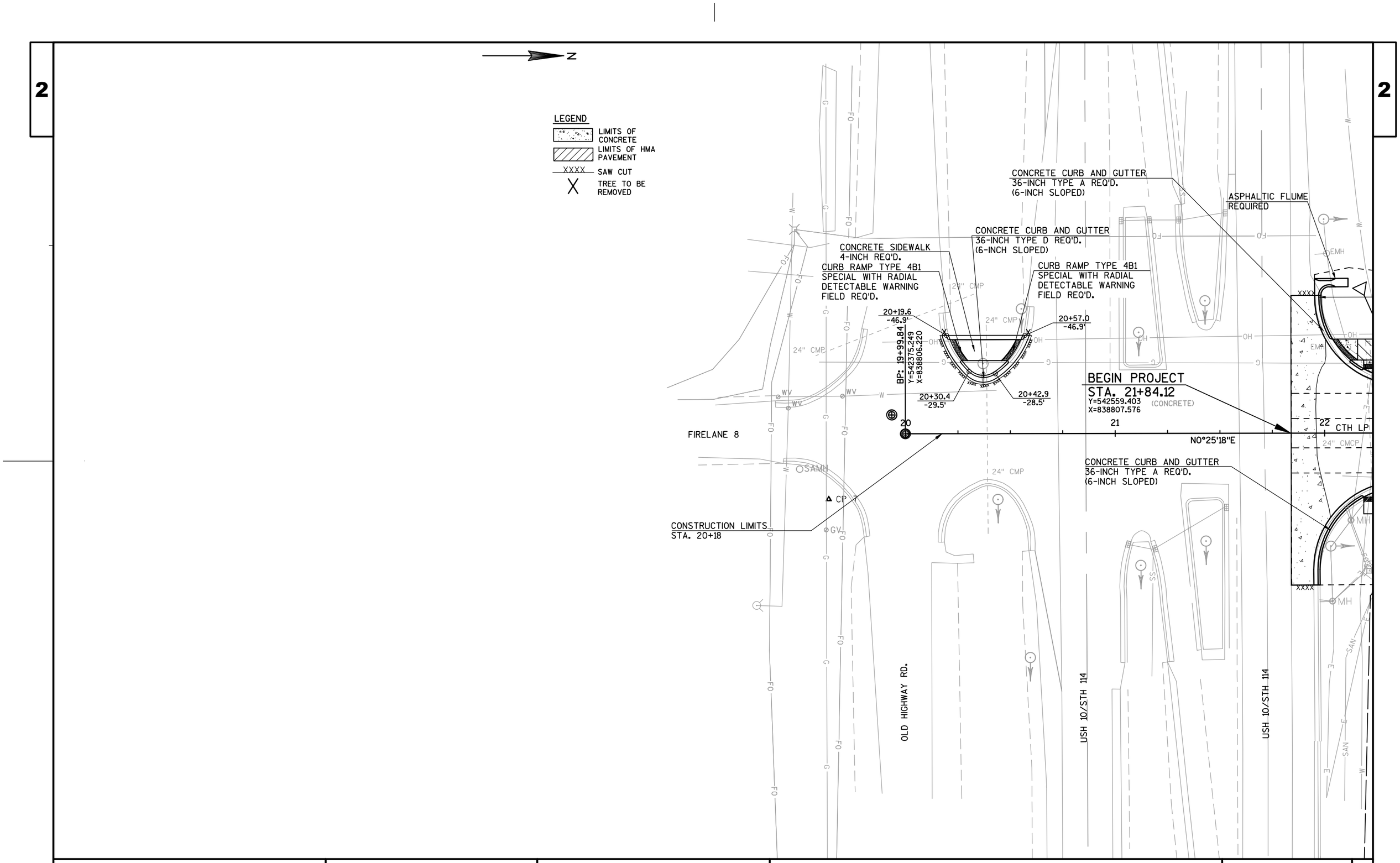


LEGEND

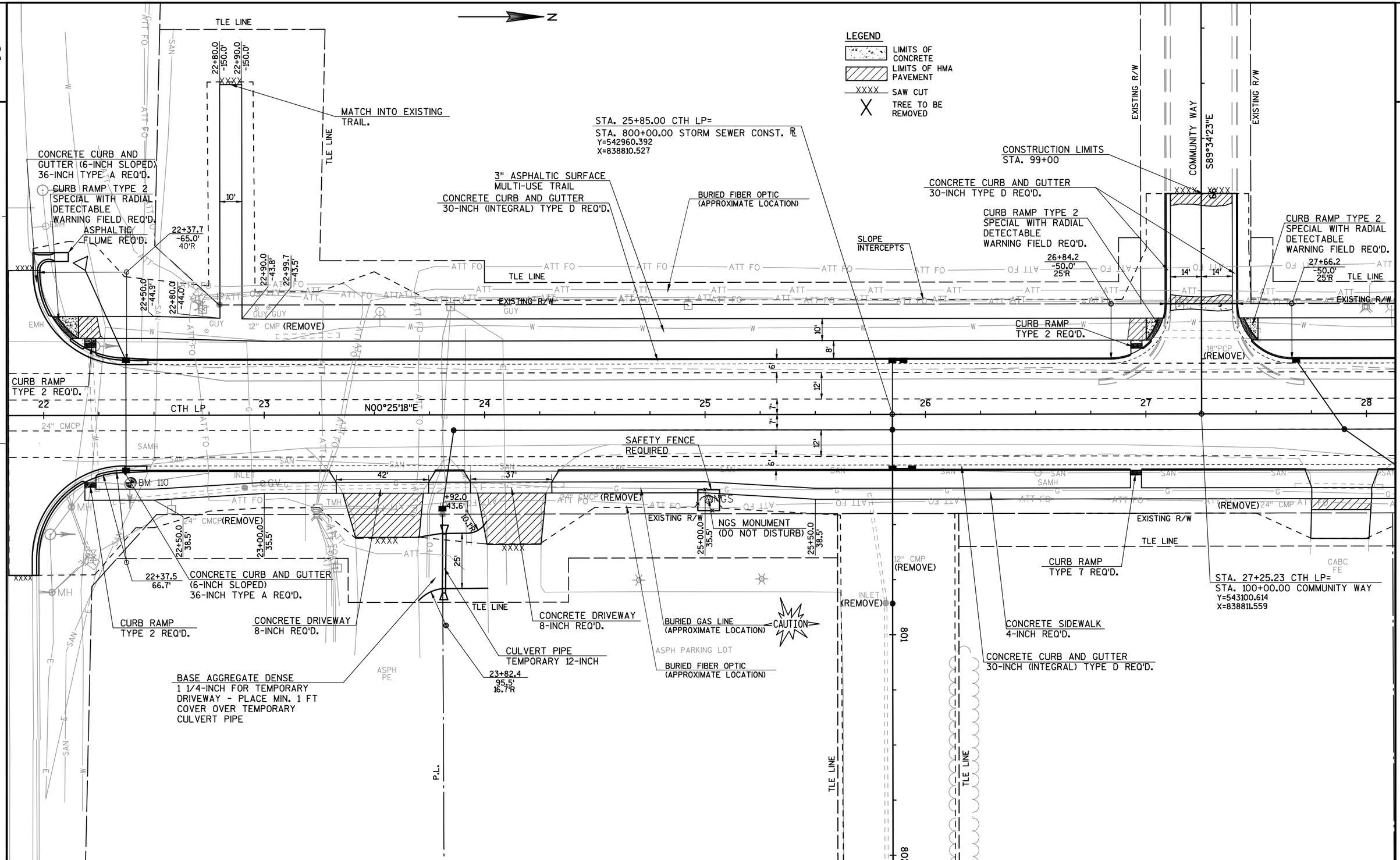
- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS
- ASPHALTIC FLUME
- CULVERT PIPE CHECK

DETAIL FOR CULVERT PIPE AND FE RECONSTRUCTION

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CONSTRUCTION DETAIL WITH EROSION CONTROL	SHEET 19	E



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 20	E



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 21 E

LEGEND
- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT
- XXXX SAW CUT
- X TREE TO BE REMOVED

N

CONSTRUCTION LIMITS
STA. 198+80

BP: 198+40.97

S89°48'21"E

CURB RAMP TYPE 2
SPECIAL WITH RADIAL
DETECTABLE WARNING
FIELD REQ'D.

CONCRETE CURB AND GUTTER
24-INCH TYPE D REQ'D.

CONCRETE CURB AND GUTTER
18-INCH TYPE D
REVERSE SLOPE GUTTER REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.
STA. 33+10.32 CTH LP=
STA. 200+00.00 SONNY DR.
Y = 543701.879
X = 838806.022

CURB RAMP TYPE 2
SPECIAL WITH RADIAL
DETECTABLE WARNING
FIELD REQ'D.
32+58.4
-50.0'
25'R

CP 6

TLE LINE
TLE LINE
XXXX XXXX XXXX

199
19'
199+19.3
-5.5'
8'
199+44.3
-5.5'

PLT
SIGN
33+67.1
-50.0'
25'R

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

SLOPE
INTERCEPTS

TLE LINE
EXISTING R/W

(REMOVE) 15" CMP

SSMH

10'
8'

25'
30.5'

CURB RAMP
TYPE 2 REQ'D.

6'
12'
7'
7'
12'

28 CTH LP 29 30 31 N00°25'18"E 32 33 34

200

CURB RAMP
TYPE 2 REQ'D.

CURB RAMP
TYPE 2 REQ'D.

SAMH

15'
15'

30+06.7
25.0'
31+06.7
36.0'

(REMOVE) 24" CMP

EXISTING R/W

32+56.6
66.0'
30'R

22'
22'

33+69.1
46.5'

33+64.6
66.0'
30'R

18" CMP
(REMOVE)

TLE LINE

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

30+24.8
38.5'
30+97.5
46.5'

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE
INTERCEPTS

BURIED ELECTRIC
(APPROXIMATE LOCATION)

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

R/W LINE

201
S89°48'21"E

CURB RAMP TYPE 2
SPECIAL WITH RADIAL
DETECTABLE WARNING
FIELD REQ'D.

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

201+38.0
24.0'

201+14.2
-24.0'

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

ROADWAY CONSTRUCTION
LIMITS
STA. 201+44

XXXX XXXX

SONNY DRIVE

TLE LINE
EXISTING R/W

EXISTING R/W

201+90.0
39.3'

202

EP: 202+00.00

ASPHALT SURFACE
TRAIL
CONSTRUCTION LIMITS
STA. 201+90

ASPH PARKING LOT

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 22	E

2

LEGEND

LIMITS OF CONCRETE

LIMITS OF HMA PAVEMENT

XXXX SAW CUT

TREE TO BE REMOVED

N

P.L.

P.L.

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

CONCRETE DRIVEWAY
8-INCH REQ'D.

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

SLOPE
INTERCEPTS

TLE LINE

EXISTING R/W

ATT FO

ATT

10'

8'

6'

12'

7'

7'

6'

12'

8'

5'

34 CTH LP 35 36 37 N00°25'18"E 38 39 40

34+39.6
25.0'

34+23.6
38.5'

FO

FMH

EXISTING R/W

TLE LINE

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE
INTERCEPTS

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

(REMOVE)

(REMOVE)

EXISTING R/W

TLE LINE

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

P.L.

P.L.

2

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 23	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021204 PD.DWG
LAYOUT NAME - 021204 PD

PLOT DATE : 4/26/2018 6:40 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

LEGEND

- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT
- XXXX SAW CUT
- X TREE TO BE REMOVED

EXISTING DRAINAGE EASEMENT

P.L.

3" ASPHALTIC SURFACE MULTI-USE TRAIL

CONCRETE CURB AND GUTTER 30-INCH (INTEGRAL) TYPE D REQ'D.

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

SLOPE INTERCEPTS

TLE LINE

R/W LINE

EXISTING R/W

(REMOVE) 36" CMP

(REMOVE) 30" PCP

CONCRETE CURB AND GUTTER 24-INCH TYPE D REQ'D.

CURB RAMP TYPE 4B1 SPECIAL WITH RADIAL DETECTABLE WARNING FIELD REQ'D.

SIGN

45+87.7
-61.0'
25'R.

45+86.4
-54.5'

45+11.4
-43.5'

45+12.7
-25.0'

40 41 CTH LP 42 43 N00°25'18"E 44 45 46

43+25.6
25.0'

44+25.6
36.0'

18" CMP

EXISTING R/W

TLE LINE

CONCRETE SIDEWALK 4-INCH REQ'D.

CONCRETE CURB AND GUTTER 30-INCH (INTEGRAL) TYPE D REQ'D.

SLOPE INTERCEPTS

CAUTION

BURIED GAS LINE (APPROXIMATE LOCATION)

R/W LINE

43+51.7
38.5'

44+24.4
46.5'

TLE LINE

BURIED TELEPHONE CABLE (APPROXIMATE LOCATION)

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

STA. 46+29.26 CTH LP=
STA. 300+00.00 WOODLAND RD.
Y=545004.597
X=838825.574

45+75.6
66.0'
30'R.

CURB RAMP TYPE 4B1 SPECIAL WITH RADIAL DETECTABLE WARNING FIELD REQ'D.

CONCRETE CURB AND GUTTER 30-INCH TYPE D REQ'D.

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 24	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021205 PD.DWG
LAYOUT NAME - 021205 PD

PLOT DATE : 4/26/2018 6:41 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

BP: 298+26.99
CONSTRUCTION LIMITS
STA. 298+35.00

CONCRETE CURB AND GUTTER
24-INCH TYPE D REQ'D.

VILLA WAY
S89°50'57"E

PT: 298+99.09

STA. 46+36.50 CTH LP=
STA. 300+00.00 VILLA WAY
Y=545011.840
X=838825.613

CURB RAMP TYPE 2
SPECIAL WITH RADIAL
DETECTABLE WARNING
FIELD REQ'D.

46+77.5
-61.0'
30'R.

CURB RAMP
TYPE 2 REQ'D.

TLE LINE
R/W LINE

SLOPE
INTERCEPTS

48+28.5
-54.5'

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

VILLA WAY
CURVE DATA

PI STA = 298+63.06
Y = 545012.214
X = 838688.664
DELTA = 4°07'53"
D = 5°43'46"
T = 36.07'
L = 72.11'
R = 1000.00'
PC STA = 298+26.99
PT STA = 298+99.09

LEGEND
- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT
- XXXX SAW CUT
- X TREE TO BE REMOVED

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

49+28.5
-43.5'

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

BURIED TELEPHONE CABLE
(APPROXIMATE LOCATION)

BURIED ELECTRIC
(APPROXIMATE LOCATION)

TLE LINE
EXISTING R/W

48+27.5
-36.0'

49+39.9
-25.0'

46 47 CTH LP 48 49 50 51 52

N00°25'18"E
N00°39'34"E

47+58.8
25.0'

47+59.6
35.5'

R/W LINE

CONCRETE DRIVEWAY
8-INCH REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE DRIVEWAY
8-INCH REQ'D.

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

SLOPE
INTERCEPTS

CONCRETE DRIVEWAY
8-INCH REQ'D.

CAUTION
BURIED GAS LINE
(APPROXIMATE LOCATION)

46+83.8
66.0'
30'R.

PI: 46+33.64
Y=545008.977
X=838825.606

CURB RAMP
TYPE 2 REQ'D.

BM 107

CURB RAMP TYPE 2 SPECIAL
WITH RADIAL DETECTABLE
WARNING FIELD REQ'D.
STA. 46+29.26 CTH LP=
STA. 300+00.00 WOODLAND RD.
Y=545004.607
X=838825.574

WOODLAND RD.
S89°50'45"E

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

CONSTRUCTION LIMITS
STA. 301+70

ASPH PAD
TPED

ASPH PE
ASPH PARKING LOT
BUILDING
HOUSE
GARAGE
SHED
SIGN
CONC
POST
GUY
SSMH
SAMH
INLET
WV
12"CMCA
12" SS

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 25	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021206 PD.DWG
LAYOUT NAME - 021206 PD

PLOT DATE : 4/26/2018 6:42 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT
XXXX SAW CUT
X TREE TO BE REMOVED

N

CONSTRUCTION LIMITS
STA. 398+35

EXISTING R/W

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

398+60.0

398+50.0
-17.0'

399+00.0
24.0'

22'

15'

CURB RAMP TYPE 2
SPECIAL WITH RADIAL
DETECTABLE WARNING
FIELD REQ'D.

57+22.5
-50.0'
25'R.

BM 105

WINNIPEG ST.
N89°32'19"E

HOUSE

CONC PE

MAIL

WALL

BURIED TELEPHONE CABLE
(APPROXIMATE LOCATION)

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

BURIED ELECTRIC
(APPROXIMATE LOCATION)

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

SLOPE
INTERCEPTS

TLE LINE

EXISTING R/W

BM 106

(REMOVE) 24" RCP

24"PCP

SAMH

CURB RAMP
TYPE 2 REQ'D.

52 53 CTH LP 54 55 56 N00°39'34"E 57 58

REMOVE RETAINING
WALL

(REMOVE) 4"PCP

(REMOVE) 8"PCP

(REMOVE)

(REMOVE) 8"PCP

CP 10

EXISTING R/W
R/W LINE

TLE LINE

CONCRETE DRIVEWAY
8-INCH REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

EXACT LOCATION OF ENTRANCE TO
BE DETERMINED BY CALUMET COUNTY

CAUTION BURIED GAS LINE
(APPROXIMATE LOCATION)

R/W LINE

6"PCP

4"PCP

ASPH PE

CURB RAMP
TYPE 7B REQ'D.

SLOPE
INTERCEPTS

STA. 57+72.49 CTH LP=
STA. 400+00.00 WINNIPEG ST.
Y=546147.747
X=838838.714

P.L.

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 26	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021207 PD.DWG
LAYOUT NAME - 021207 PD

PLOT DATE : 8/8/2018 10:56 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT
XXXX SAW CUT
X TREE TO BE REMOVED

N

CURB RAMP TYPE 4B1 SPECIAL WITH RADIAL DETECTABLE WARNING FIELD REQ'D.

TLE LINE

58+13.5
-50.0'
25'R.

EXISTING R/W

CP 4

BURIED ELECTRIC (APPROXIMATE LOCATION)

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

SLOPE INTERCEPTS

3" ASPHALTIC SURFACE MULTI-USE TRAIL

PI: 62+13.98
Y=546589.212
X=838843.795

CONCRETE CURB AND GUTTER 30-INCH (INTEGRAL) TYPE D REQ'D.

24"PCP (REMOVE)

24"CMP (REMOVE)

(REMOVE) 18"CMP

58 59 60 61 62 63 64

CTH LP

N00°39'34"E

23'

10' 8' 6' 12' 7' 7' 12' 6' 8' 5' 5' 5' 5'

R/W LINE

R/W LINE

4"PCP

XXXX XXXX XXXX

CONC PE TLE LINE

FLAG

BURIED TELEPHONE CABLE (APPROXIMATE LOCATION)

HOUSE

CAUTION BURIED GAS LINE (APPROXIMATE LOCATION)

SLOPE INTERCEPTS

CONCRETE DRIVEWAY 8-INCH REQ'D.

CABC PE

ASPH PE

CONCRETE SIDEWALK 4-INCH REQ'D.

CONCRETE CURB AND GUTTER 30-INCH (INTEGRAL) TYPE D REQ'D.

62+25.8
35.5'

62+50.0
38.5'

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

TLE LINE

CABC PE

GARAGE

HOUSE

P.L.

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 27	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021208 PD.DWG
LAYOUT NAME - 021208 PD

PLOT DATE : 4/26/2018 6:44 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT
- XXXX SAW CUT
- X TREE TO BE REMOVED

N

P.L.

HOUSE

ASPH PE

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

BURIED ELECTRIC
(APPROXIMATE LOCATION)

SLOPE
INTERCEPTS

CTH LP SOUTHBOUND
CONSTRUCTION ℄

TLE LINE

R/W LINE

EXISTING R/W

(REMOVE) 18"CMP

SAMH

MAIL

10'

8'

6'

12'

7'

64NB

65NB CTH LP

66NB

N01°11'56"E

67NB

68NB

69SB

69NB

70SB

70NB

+51.06NB
-5.00'
5'R.

35'

36"RCP
(REMOVE)

FMH

CP 8

EXISTING R/W

CONCRETE SIDEWALK
4-INCH REQ'D.

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

CONCRETE DRIVEWAY
8-INCH REQ'D.

CAUTION

BURIED GAS LINE
(APPROXIMATE LOCATION)

CABC
PE

CTH LP NORTHBOUND
CONSTRUCTION ℄

SLOPE
INTERCEPTS

SHED

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 28	E

LEGEND
- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT
- XXXX SAW CUT
- X TREE TO BE REMOVED

CTH LP SOUTHBOUND
CONSTRUCTION ℄

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.
STAMPING COLORED CONCRETE

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

BURIED ELECTRIC
(APPROXIMATE LOCATION)

SLOPE
INTERCEPTS

CURB RAMP
TYPE 7 REQ'D.

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.
(REVERSE SLOPE)

CONCRETE CURB AND GUTTER
4-INCH SLOPED
36-INCH TYPE T REQ'D.

CONCRETE
TRUCK APRON 12-INCH
COLORING RED REQ'D.

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.
3" ASPHALTIC SURFACE
MULTI-USE TRAIL

FIELD ENTRANCE
TO BE REMOVED

CONCRETE SIDEWALK
4-INCH REQ'D.

BURIED TELEPHONE CABLE
(APPROXIMATE LOCATION)

BURIED CABLE TV
(APPROXIMATE LOCATION)

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

MANITOWOC RD.

EXISTING R/W

TLE LINE

R/W LINE

P.L.

499+22.54
-4.00'
2'R.

499+22.63
6.00'
4'R.

72+11.12
6.00'
4'R.

72+11.69
-4.00'
2'R.

73+59.88
4.00'
2'R.

73+60.72
-6.00'
4'R.

500+70.93
-6.00'
4'R.

500+72.69
4.00'
2'R.

35' R.

(REMOVE) 24"RCP

24"CMP (REMOVE)

BM 103

CP 3

HOUSE

SHED

CABC

WOODS

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 29	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021210 PD.DWG
LAYOUT NAME - 021210 PD
PLOT DATE : 4/26/2018 6:46 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT
XXXX SAW CUT
TREE TO BE REMOVED

N

P.L.

HOUSE

CTH LP SOUTHBOUND CONSTRUCTION ℄

BURIED TELEPHONE (APPROXIMATE LOCATION)

SLOPE INTERCEPTS

CONCRETE CURB AND GUTTER 30-INCH (INTEGRAL) TYPE D REQ'D.

3" ASPHALTIC SURFACE MULTI-USE TRAIL

TLE LINE

EXISTING R/W

10'
8'
6'
12'
7'
7'
6'
12'
8'
5'

76
76+18.40
-5.00'
77
CTH LP
78
79
80
81
82

SAMH

BM 102

CAUTION

BURIED GAS LINE (APPROXIMATE LOCATION)

BURIED CABLE TV (APPROXIMATE LOCATION)

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

BURIED TELEPHONE (APPROXIMATE LOCATION)

CTH LP NORTHBOUND CONSTRUCTION ℄

CONCRETE SIDEWALK 4-INCH REQ'D.

CONCRETE CURB AND GUTTER 30-INCH (INTEGRAL) TYPE D REQ'D.

WOODS

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 30	E

2

LEGEND

LIMITS OF CONCRETE

LIMITS OF HMA PAVEMENT

XXXX SAW CUT

X TREE TO BE REMOVED

CONSTRUCTION LIMITS
STA. 598+25.00

N

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

EXISTING R/W

ETHAN DRIVE

598+40.0
-17.2'

15'

598+75.0
17.0'

S89°47'21"E 669

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

P.L.

BURIED TELEPHONE
(APPROXIMATE LOCATION)

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

SLOPE
INTERCEPTS

CURB RAMP TYPE 4B1
SPECIAL WITH RADIAL
DETECTABLE WARNING
FIELD REQ'D.

CURB RAMP TYPE 4B1
SPECIAL WITH RADIAL
DETECTABLE WARNING
FIELD REQ'D.

85+69.8
-55.0'
30' R

86+77.8
-55.0'
30' R

ATT FO

TLE LINE

EXISTING R/W

(REMOVE)

22'

10'
8'
6'
12'
7'
7'
6'
12'
8'
5'

82 83 CTH LP N00°00'42"W 84 85 86 87 88

25'

CURB RAMP
TYPE 2 REQ'D.

SLOPE
INTERCEPTS

CONCRETE SIDEWALK
4-INCH REQ'D.

CAUTION

BURIED GAS LINE
(APPROXIMATE LOCATION)

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

BURIED CABLE TV
(APPROXIMATE LOCATION)

BURIED TELEPHONE
(APPROXIMATE LOCATION)

ATT FO TV

(REMOVE)

26'

85+54.9
65.0'
40' R

CURB RAMP TYPE 4B1
WITH RADIAL DETECTABLE
WARNING FIELD
REQ'D.

R/W LINE

S89°26'59"E 601

86+86.9
65.0'
40' R

CURB RAMP TYPE 2
WITH RADIAL
DETECTABLE
WARNING FIELD
REQ'D.

(TO REMAIN)

STA. 86+23.58 CTH LP=
STA. 600+00.00 ETHAN DRIVE
Y=548992.274
X=838865.462

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

XXXX

CONSTRUCTION LIMITS
STA. 601+25

EXISTING R/W

ETHAN DRIVE

EXISTING R/W

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 31	E

2

2

LEGEND

LIMITS OF CONCRETE

LIMITS OF HMA PAVEMENT

XXXX SAW CUT

TREE TO BE REMOVED

N

HOUSE

SHED

P.L.

REMOVE DRIVEWAY

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER 30-INCH (INTEGRAL) TYPE D REQ'D.

3" ASPHALTIC SURFACE MULTI-USE TRAIL

SLOPE INTERCEPTS

TLE LINE

EXISTING R/W

18"CMP (REMOVE)

10'

8'

9'

12'

7'

7'

6'

12'

8'

5'

88 CTH LP 89 90 CTH LP 91 92 93 94

BURIED CABLE TV (APPROXIMATE LOCATION)

CONCRETE SIDEWALK 4-INCH REQ'D.

REMOVE DRIVEWAY

CONCRETE CURB AND GUTTER 30-INCH (INTEGRAL) TYPE D REQ'D.

SLOPE INTERCEPTS

BURIED TELEPHONE (APPROXIMATE LOCATION)

CAUTION

BURIED GAS LINE (APPROXIMATE LOCATION)

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 32	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021213 PD.DWG
LAYOUT NAME - 021213 PD

PLOT DATE : 4/26/2018 6:48 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND
- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT
- XXXX SAW CUT
- X TREE TO BE REMOVED

N

P.L.

EXISTING R/W

CTH AP (MIDWAY ROAD)

EXISTING R/W

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

SLOPE
INTERCEPTS

END PROJECT
STA. 95+30.00
Y=549882.826
X=838865.279

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

CONSTRUCTION LIMITS
STA. 96+79.8

96+30.0
-49.1'

IP

CP 1

EXISTING R/W

(REMOVE)CONCRETE
SURFACE DRAIN

95+80.0
-28.0'

96+28.2
-26.2'

95+30.0
-19.6'

95+30.0
19.0'

96+42.3
20.0'

96+79.8
31.2'

EP: 99+01.24
Y=550269.934
X=838865.200

94 CTH LP 95 96 97 98 99

10' 8' 6' 12' 7' 7' 12' 6' 8' 5'

BM 100

TLE LINE

ASPH
PE

EXISTING R/W

SLOPE
INTERCEPTS

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE DRIVEWAY
8-INCH REQ'D.

BURIED TELEPHONE
(APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

CAUTION

BURIED GAS LINE
(APPROXIMATE LOCATION)

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

P.L.

EXISTING R/W

CTH AP (MIDWAY ROAD)

EXISTING R/W

2

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL	SHEET 33	E

2

LEGEND

LIMITS OF CONCRETE

LIMITS OF HMA PAVEMENT

XXXX SAW CUT

TREE TO BE REMOVED

N

HOUSE

P.L.

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

MANITOWOC RD. WESTBOUND CONSTRUCTION ℄

SLOPE INTERCEPTS

MATCH LINE

CONSTRUCTION LIMITS STA. 494+75

R/W LINE

EXISTING R/W

ASPH PE

PLT

"CMP

SAN

SS

SS MH

30" RCP

WV

18"CMP (REMOVE)

TVPED

MANITOWOC RD.

494

495

496

497

498

16'

496+80.1 -18.0'

496+80.3 -10.0' 3'R.

496+80.5 -7.0' 5'R.

496+80.2 -4.0' 3'R.&298'R.

497+24.1 -2.0' 298'R.

497+58.0 -7.4' 5.5'R.

CONCRETE PAVEMENT 8-INCH REQ'D.

30"CMP

ATT FO

ATT TV

8"CMP (REMOVE)

CABC PE

CAUTION BURIED GAS LINE (APPROXIMATE LOCATION)

MANITOWOC RD. EASTBOUND CONSTRUCTION ℄

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

BURIED TELEPHONE (APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL-MANITOWOC ROAD	SHEET 34	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021215 PD.DWG
LAYOUT NAME - 021215 PD

PLOT DATE : 4/26/2018 6:50 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

LIMITS OF CONCRETE

LIMITS OF HMA PAVEMENT

XXXX SAW CUT

X TREE TO BE REMOVED

N

MANITOWOC RD. WESTBOUND CONSTRUCTION ℄

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

SLOPE INTERCEPTS

CABC PE

ASPH PE

LINE

WOODS

R/W LINE

GUY

(REMOVE) 18"CMP

30"CMP (REMOVE)

CONSTRUCTION LIMITS STA. 505+45

EXISTING R/W

502+70.8 -13.0' 3'R.

502+87.7 -7.6' 3'R&38'R.

502

503

504

505

506

MANITOWOC RD.

507

502+86.1 -5.0' 5'R.

502+86.1 -2.0' 3'R.

503+04.3 0.0'

(REMOVE) 18"CMP

(REMOVE)

ATT FO

TLE LINE

MATCH

SLOPE INTERCEPTS

CONCRETE CURB AND GUTTER 30-INCH TYPE D REQ'D.

CABC PE

BARN

RIPRAP DITCH

RCP

ASPHALTIC FLUME REQUIRED

HOUSE

TPED

EPED

BURIED ELECTRIC (APPROXIMATE LOCATION)

BURIED CABLE TV (APPROXIMATE LOCATION)

CAUTION BURIED GAS LINE (APPROXIMATE LOCATION)

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

MANITOWOC RD. EASTBOUND CONSTRUCTION ℄

SHED

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN DETAIL-MANITOWOC ROAD	SHEET 35	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021216 PD.DWG
LAYOUT NAME - 021216 PD

PLOT DATE : 4/26/2018 6:51 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

775.75

BP: 19+99.84
Y=542375.249
X=838806.220

777.35

776.30

776.56

776.89

776.71

BEGIN PROJECT
STA. 21+84.12
Y=542559.403
X=838807.576
(CONCRETE)

20

21

22

N0°25'18"E

FIRELANE 8

CP 7

CONSTRUCTION LIMITS
STA. 20+18

778.34

778.79

778.99

779.16

779.26

CTH LP

779.30

779.36

779.37

779.48

779.54

OLD HIGHWAY RD.

USH 10/STH 114

USH 10/STH 114

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 36	E

2

N

STA. 25+85.00 CTH LP=
STA. 800+00.00 STORM SEWER CONST. ℄
Y=542960.392
X=838810.527

COMMUNITY WAY

778.34 XXXX
778.79
779.29
779.18 779.31 779.82 780.10 780.04 779.75 779.45 779.22 779.18 779.32 779.44 779.64 779.72 779.84
778.99 779.39 779.90 780.18 780.12 779.83 779.53 779.30 779.26 779.40 779.57 779.75 779.92
779.16 779.63 780.14 780.42 780.36 780.07 779.77 779.54 779.50 779.64 779.81 779.99 780.16
22 23 CTH,LP 24 25 26 27 28
779.26 779.77 780.28 780.56 780.50 780.21 779.91 779.68 779.64 779.78 779.95 780.13 780.30
779.30 779.63 780.14 780.42 780.36 780.07 779.77 779.54 779.50 779.64 779.81 779.99 780.16
779.36 779.39 779.90 780.18 780.12 779.83 779.53 779.30 779.26 779.40 779.57 779.75 779.92
779.18 779.31 779.82 780.10 780.04 779.75 779.45 779.22 779.18 779.32 779.49 779.67 779.84
779.37
779.28
779.48
779.54
XXXX
XXXX
XXXX
XXXX
780.25
780.53
780.25
780.22
779.94
780.08
779.91
779.62
779.88
779.80
779.58
779.54
10'
8'
6"
7'
7'
12'
12'

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021302 GR.DWG
LAYOUT NAME - 021302 GR
PLOT DATE : 3/29/2018 2:35 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

STA. 33+10.32 CTH LP=
STA. 200+00.00 SONNY DR.
Y = 543701.879
X = 838806.022

XXXX XXXX XXXX

781.38 781.63 781.63
781.50 781.75 781.71
199
19'
8'
27' 32'
781.68 781.92 781.94
782.14
781.80
781.87 782.15 782.09 782.34
10'
8'

779.84 780.02 780.19 780.37 780.57 780.80 781.06 781.32 781.57 781.83 782.35 782.46
779.92 780.10 780.27 780.45 780.65 780.88 781.14 781.39 781.65 781.91 782.54
6 12'
780.16 780.34 780.51 780.69 780.89 781.12 781.38 781.64 781.89 782.15 782.39 782.59 782.78
28 CTH LP 29 30 31 32 33 34
780.30 780.48 780.65 780.83 781.03 781.26 781.52 781.78 782.03 782.29 782.53 782.73 782.92
7' 7'
780.16 780.34 780.51 780.69 780.89 781.12 781.38 781.64 781.89 782.15 782.39 782.59 782.78
12'
779.92 780.10 780.27 780.45 780.65 780.88 781.14 781.40 781.65 781.91 782.15 782.35 782.54
779.84 780.02 780.19 780.37 780.57
6
+06.6 780.60
780.70
+06.6 780.87
780.85 781.09 781.35
781.61 781.64
17'
781.78
782.12 17'
781.91
782.34
782.07
781.91 781.69
22' 22'
1% 2%
782.00 782.21 781.78
782.24 782.45 782.01
782.46 782.69 782.28
200 201
XXXX XXXX
SONNY DRIVE
202

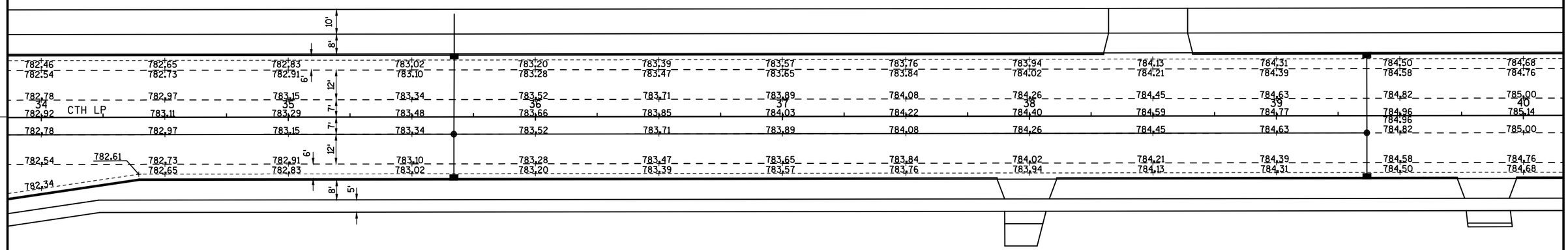
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 38	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021303 GR.DWG
LAYOUT NAME - 021303 GR

PLOT DATE : 3/29/2018 2:35 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 39	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021304 GR.DWG
LAYOUT NAME - 021304 GR

PLOT DATE : 3/29/2018 2:35 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

2

10'
8'
12'
6'
7'
7'
12'
6'
8'
5'

784.68 784.87 785.06 785.34 785.78 786.31 786.84 787.37 787.91 788.44 788.97 789.40 789.67
784.76 784.95 785.14 785.42 785.86 786.39 786.92 787.45 787.99 788.52 789.05 +13.1 789.11 789.59 790.09
785.00 785.19 785.38 785.66 786.10 786.63 787.16 787.69 788.23 788.76 789.29 789.83 790.33
785.14 785.33 785.52 785.80 786.24 786.77 787.30 787.83 788.37 788.90 789.43 789.97 790.47
785.00 785.19 785.38 785.66 786.10 786.63 787.16 787.69 788.23 788.76 789.29 789.83 790.33
784.76 784.95 785.14 785.42 785.86 786.39 786.92 +25.7 787.11 787.45 787.99 788.52 789.05 789.59 790.09
784.68 784.87 785.06 785.34 785.78 786.31 786.84 787.32 787.74 +25.7 787.96 788.22 788.75 789.29 789.55

40 41 CTH LP 42 43 44 45 46

17'

STA. 46+29.26 CTH LP=
STA. 300+00.00 WOODLAND RD.
Y=545004.597
X=838825.574

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 40	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021305 GR.DWG
LAYOUT NAME - 021305 GR

PLOT DATE : 3/29/2018 2:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

BP: 298+26.99

XXXX XXXX

789.65 789.83 789.61

789.47 789.87 789.58

VILLA WAY

789.35 789.79 789.49

789.31 789.45

PT: 298+99.09

299

STA. 46+36.50 CTH LP=
STA. 300+00.00 VILLA WAY
Y=545011.840
X=838825.613

789.40 23' 789.54 17'

789.87

790.16

789.75

790.30

789.67

790.48 790.68 791.11 791.53 +27.5 791.81 792.01 792.55 793.10 793.66 794.27 794.89 795.50 796.12

790.09 790.98 791.41 791.83 792.26 792.69 793.18 793.74 794.35 794.97 795.58 796.20

790.33 790.79 791.22 791.65 792.07 792.50 792.93 793.42 793.98 794.59 795.21 795.82 796.44

790.47 790.93 791.36 791.79 792.21 792.64 793.07 793.56 794.12 794.73 795.35 795.96 796.58

790.33 790.79 791.22 791.65 792.07 792.50 792.93 793.42 793.98 794.59 795.21 795.82 796.44

790.09 790.55 790.98 791.41 791.83 792.26 792.69 793.18 793.74 794.35 794.97 795.58 796.20

790.55

790.81

790.74

CTH LP

+58.6 791.40

791.30

790.54

790.72

17'

790.24

789.56

790.13

789.87

789.46

789.68

789.91

22' 789.81 22'

789.48 2% 789.71 1%

789.98 789.76

789.56

789.94

790.33 301 790.12

790.40

790.98 WOODLAND RD. 790.53

790.85

791.62 790.95

XXXX XXXX

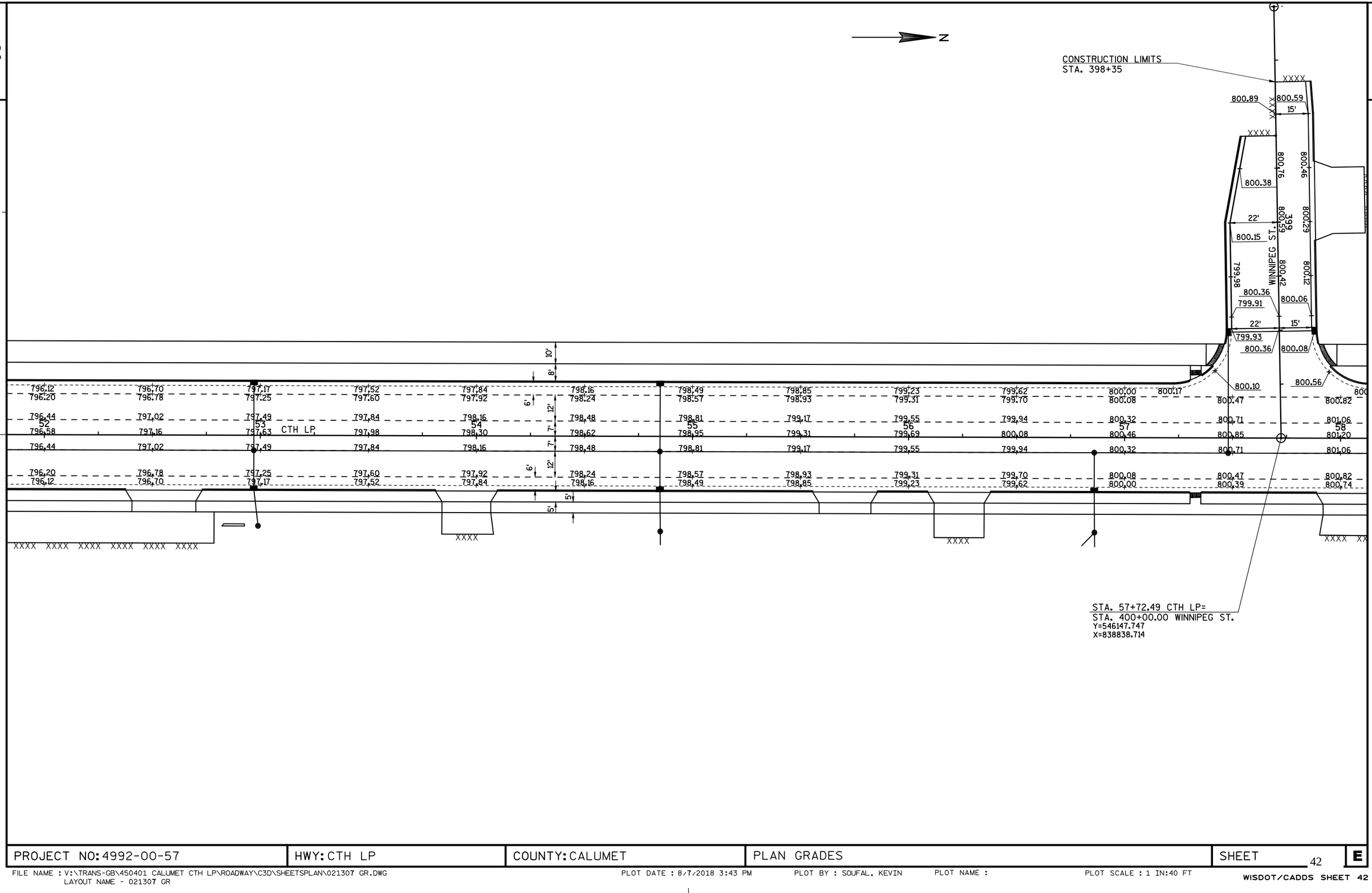
PI: 46+33.64
Y=545008.977
X=838825.606

STA. 46+29.26 CTH LP=
STA. 300+00.00 WOODLAND RD.
Y=545004.607
X=838825.574

+27.5 792.87

10' 8' 6' 12' 7' 7' 6' 12' 5' 5'

XXXX XXXX XXXX



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 42	E

2

2

N

PI: 62+13.98
Y=546589.212
X=838843.795

XXXX XXXX

XXXX

XXXX XXXX XXXX

XXXX

25'

10'

8'

12'

7'

7'

12'

5'

5'

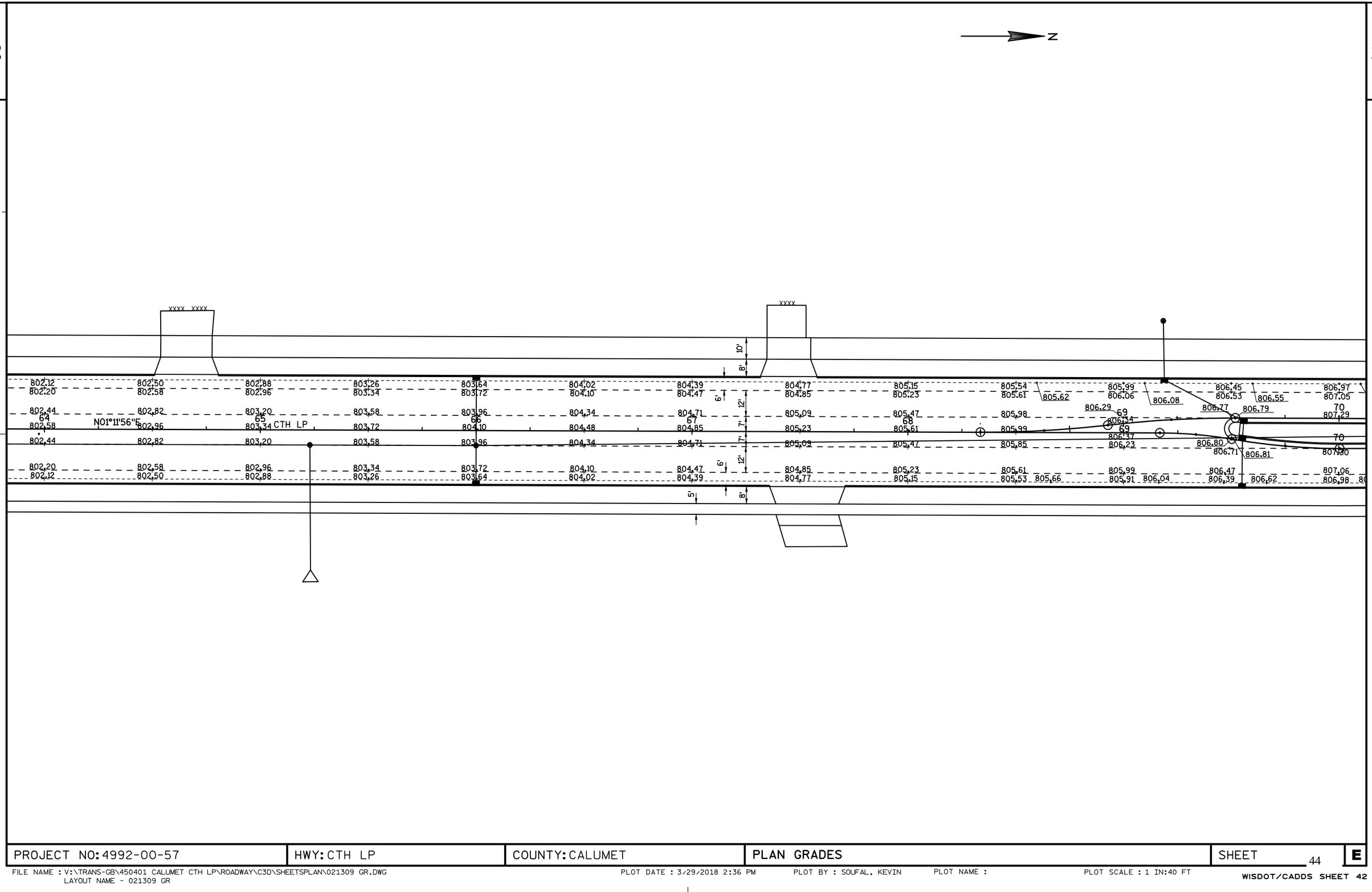
5'

5'

8'

| | | |

2



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 44	E

2

2

N

MANITOWOC RD.

CTH LP

MANITOWOC RD.

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 45	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021310 GR.DWG
LAYOUT NAME - 021310 GR

PLOT DATE : 3/29/2018 2:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

CTH LP SOUTHBOUND
CONSTRUCTION ℄

CTH LP NORTHBOUND
CONSTRUCTION ℄

CTH LP

| | | |

2

N

ETHAN DRIVE

599

600

601

CTH LP

ETHAN DRIVE

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 47	E

2

N

10'
8'
6'
12'
7'
7'
6'
12'
8'
5'

88	89	90	91	92	93	94
817.25	817.59	817.93	818.26	818.60	818.89	819.12	819.31	819.50	819.68	819.87	820.05	820.24
817.33	817.67	818.01	818.34	818.68	818.97	819.20	819.39	819.58	819.76	819.95	820.13	820.32
817.57	817.91	818.25	818.58	818.92	819.21	819.44	819.63	819.82	820.00	820.19	820.37	820.56
817.71	818.05	818.39	818.72	819.06	819.35	819.58	819.77	819.96	820.14	820.33	820.51	820.70
817.57	817.91	818.25	818.58	818.92	819.21	819.44	819.63	819.82	820.00	820.19	820.37	820.56
817.33	817.67	818.01	818.34	818.68	818.97	819.20	819.39	819.58	819.76	819.95	820.13	820.32
817.25	817.59	817.93	818.26	818.60	818.89	819.12	819.31	819.50	819.68	819.87	820.05	820.24

CTH LP

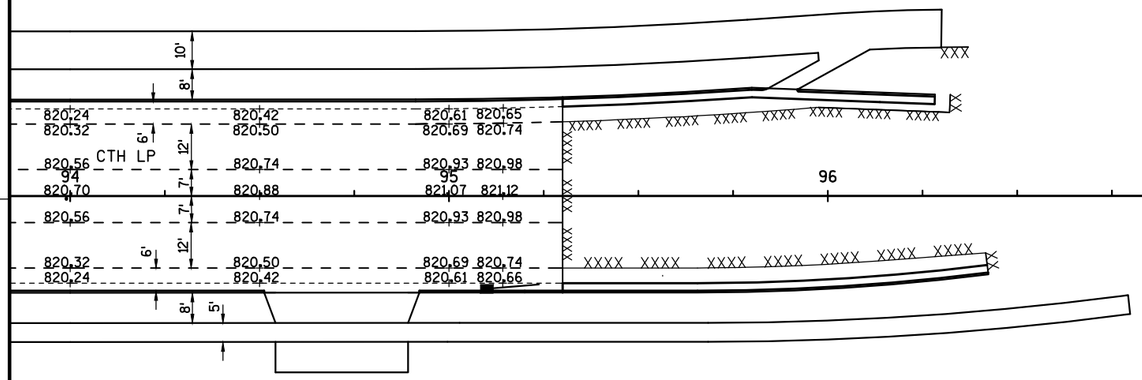
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 48	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021313 GR.DWG
LAYOUT NAME - 021313 GR

PLOT DATE : 3/29/2018 2:37 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES	SHEET 49	E

2

N

MANITOWOC RD. WESTBOUND
CONSTRUCTION ℄

MATCH LINE

MANITOWOC RD.

494

495 808.90

809.03
809.01

496 809.12

809.31
809.24

809.25

809.13

497 809.19
809.11

498 809.24
809.13

808.93 808.87 808.79 16' 808.77 808.83 808.92

809.09

808.99

808.84 808.79 808.69 808.67 16' 808.72 808.79

XXXX

MANITOWOC RD. EASTBOUND
CONSTRUCTION ℄

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES-MANITOWOC ROAD	SHEET 50	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\021315 GR.DWG
LAYOUT NAME - 021315 GR

PLOT DATE : 4/26/2018 7:04 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MANITOWOC RD. WESTBOUND
CONSTRUCTION ℄

LINE

808.97 809.45 809.83 810.22 810.30
502 809.29 809.77 503 810.54 810.64 811.21 504 811.73 811.77 812.06 5005 812.27
502 809.31 809.87 810.24 810.40 503 810.61 810.67 811.28 812.08 812.28 506 MANITOWOC RD. 507
808.99 809.55 809.92 810.29 810.52 810.96 811.23 811.45 811.63 811.73 811.67

MATCH

MANITOWOC RD. EASTBOUND
CONSTRUCTION ℄

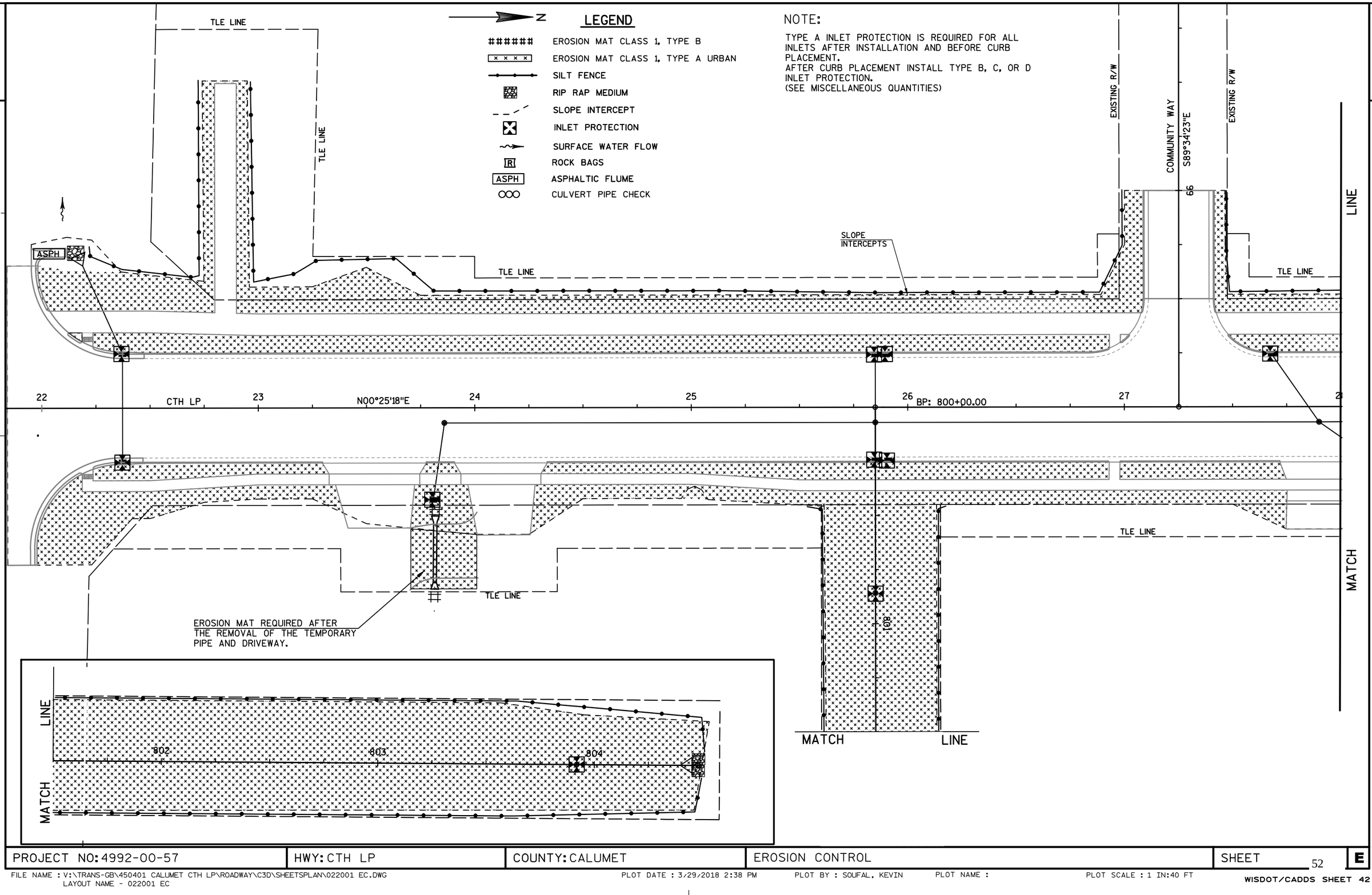
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN GRADES-MANITOWOC ROAD	SHEET 51	E

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS
- ASPH ASPHALTIC FLUME
- CULVERT PIPE CHECK

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 52	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022001 EC.DWG
LAYOUT NAME - 022001 EC

PLOT DATE : 3/29/2018 2:38 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

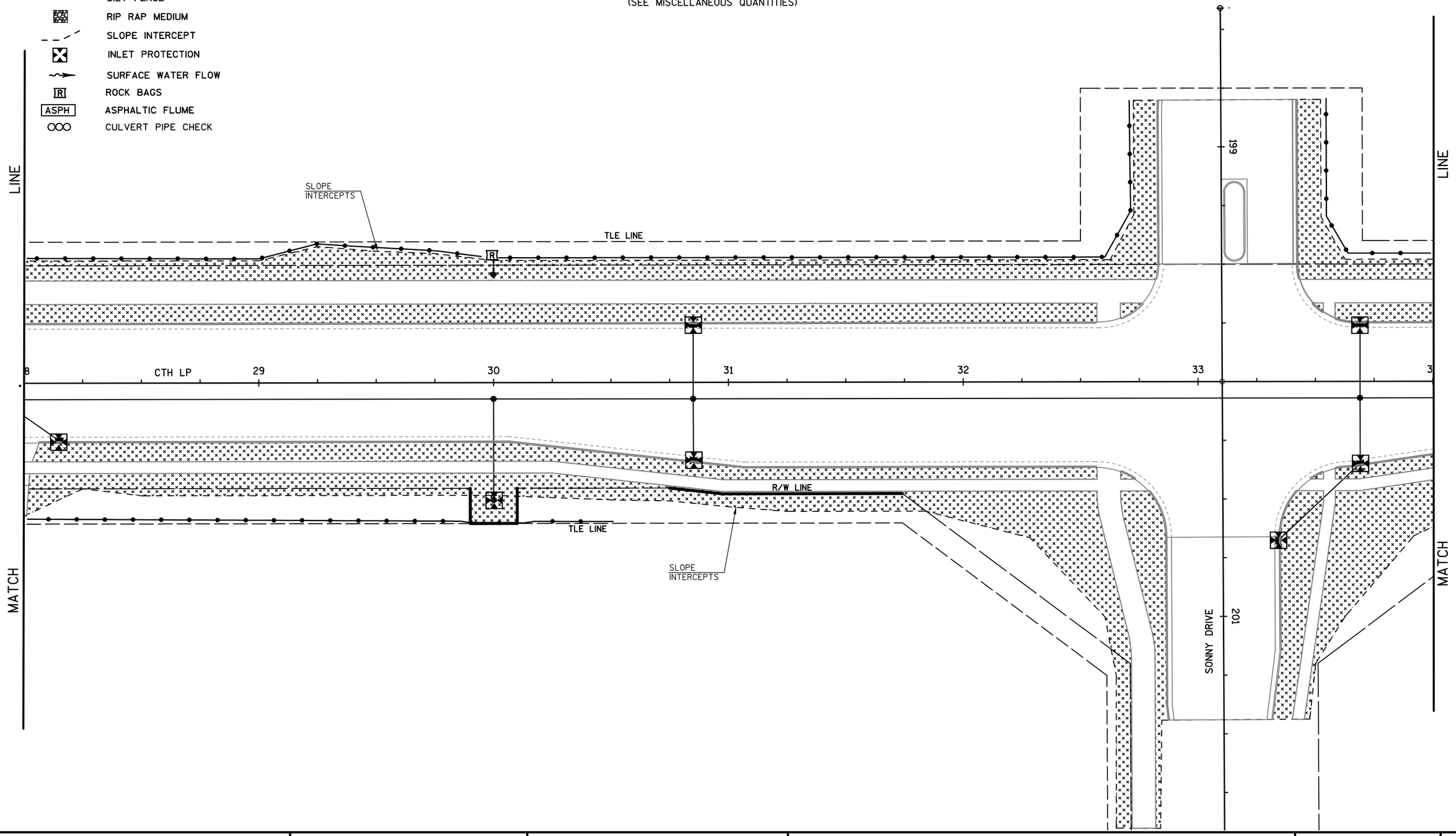
LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS
- ASPH ASPHALTIC FLUME
- CULVERT PIPE CHECK

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 53	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022002 EC.DWG
LAYOUT NAME - 022002 EC

PLOT DATE : 3/29/2018 2:38 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

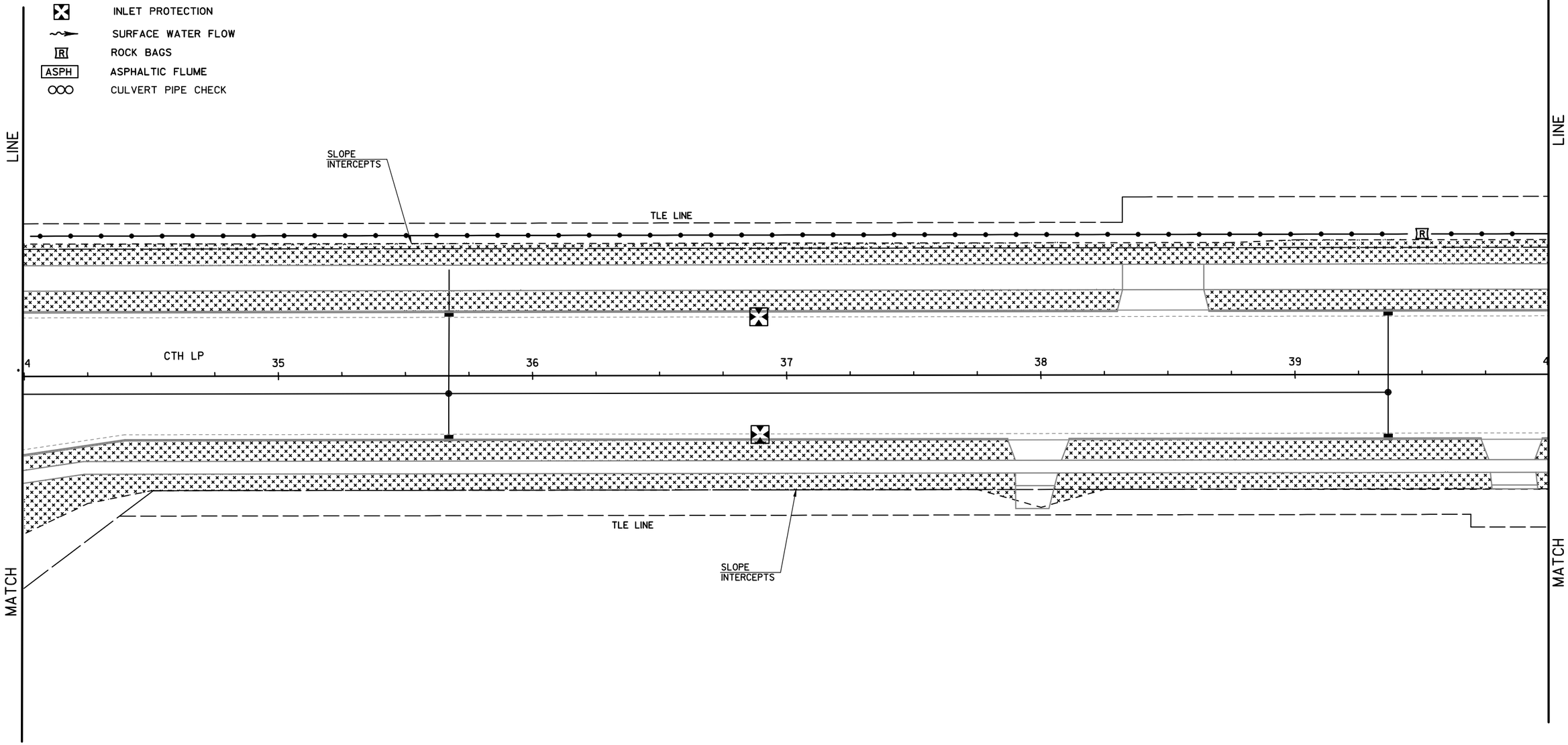
LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS
- ASPH ASPHALTIC FLUME
- CULVERT PIPE CHECK

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 54	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022003 EC.DWG
LAYOUT NAME - 022003 EC

PLOT DATE : 3/29/2018 2:38 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

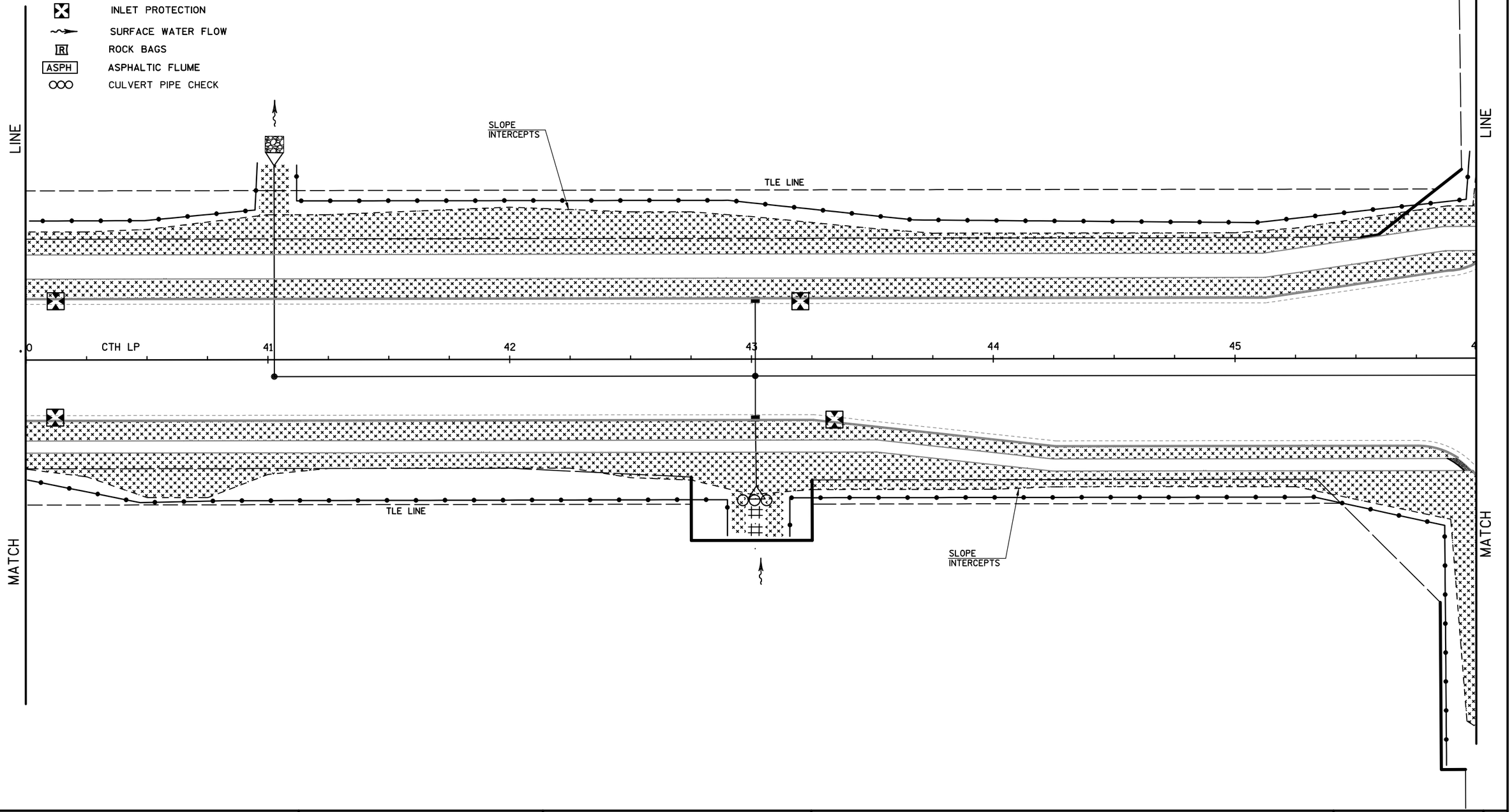
LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- IR ROCK BAGS
- ASPH ASPHALTIC FLUME
- CULVERT PIPE CHECK

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 55	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022004 EC.DWG
LAYOUT NAME - 022004 EC

PLOT DATE : 3/29/2018 2:38 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

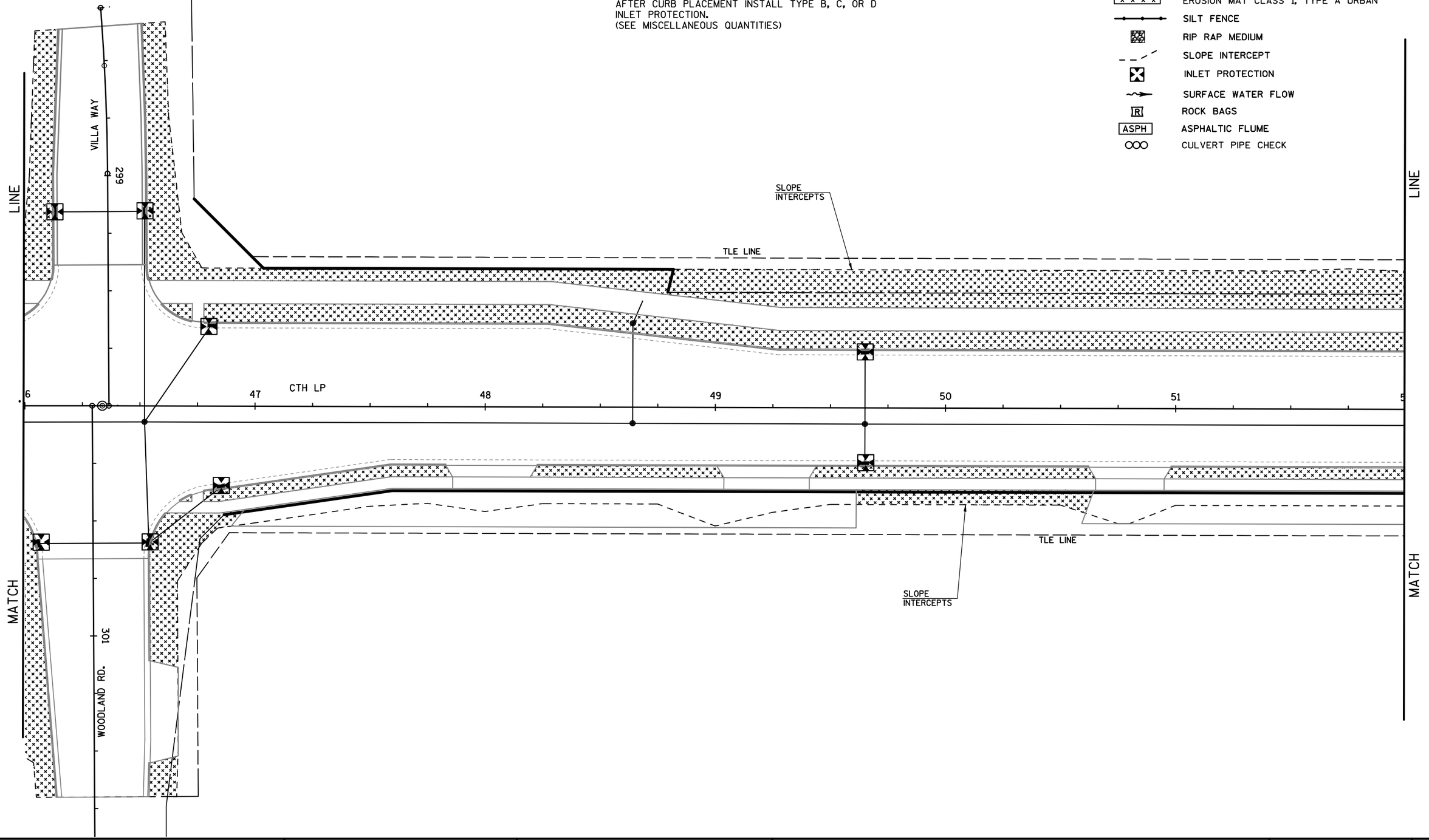
NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS
- ASPHALTIC FLUME
- CULVERT PIPE CHECK



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 56	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022005 EC.DWG
LAYOUT NAME - 022005 EC

PLOT DATE : 3/29/2018 2:39 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

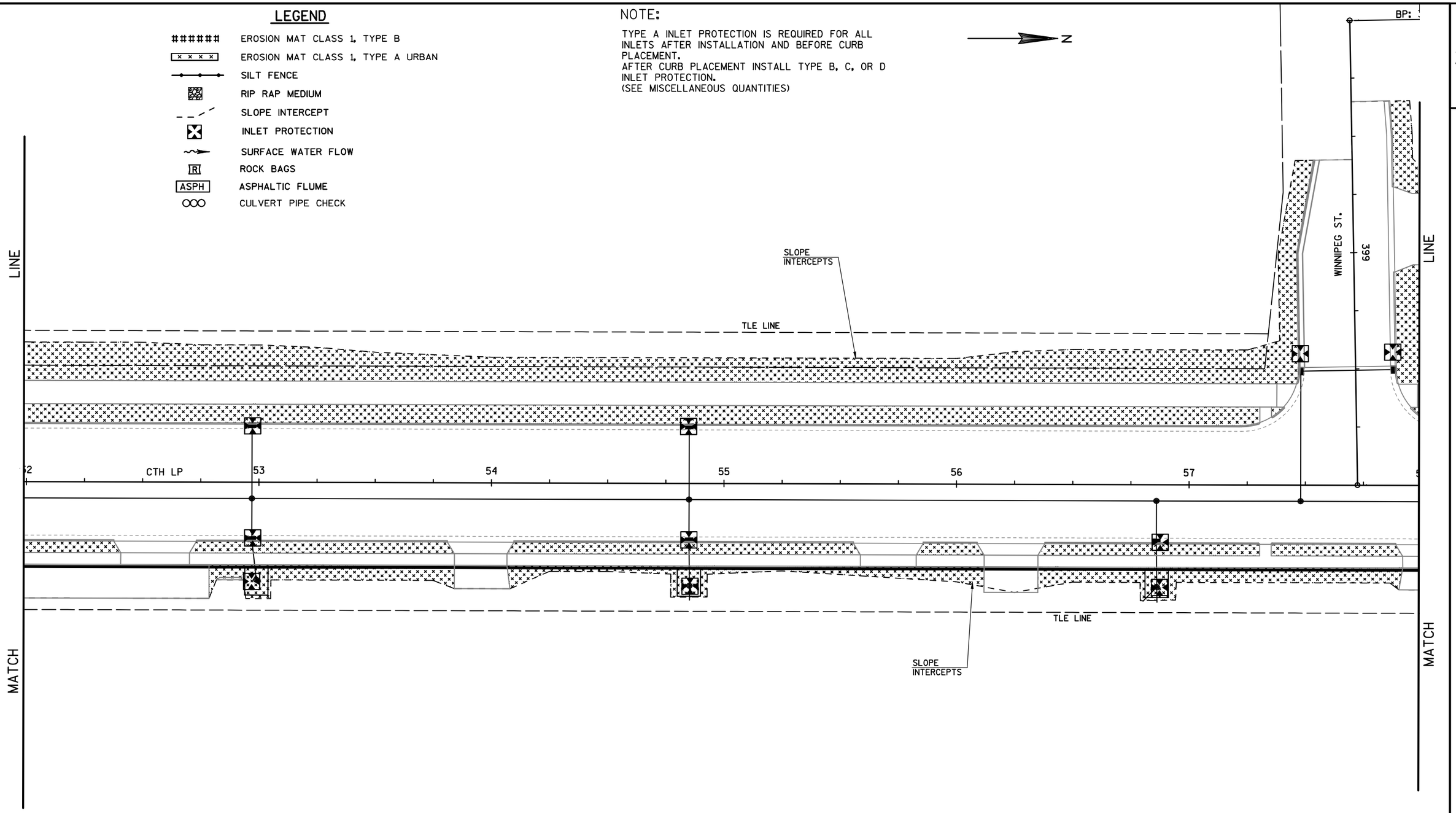
LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS
- [ASPH] ASPHALTIC FLUME
- CULVERT PIPE CHECK

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 57	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022006 EC.DWG
LAYOUT NAME - 022006 EC

PLOT DATE : 8/7/2018 3:52 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

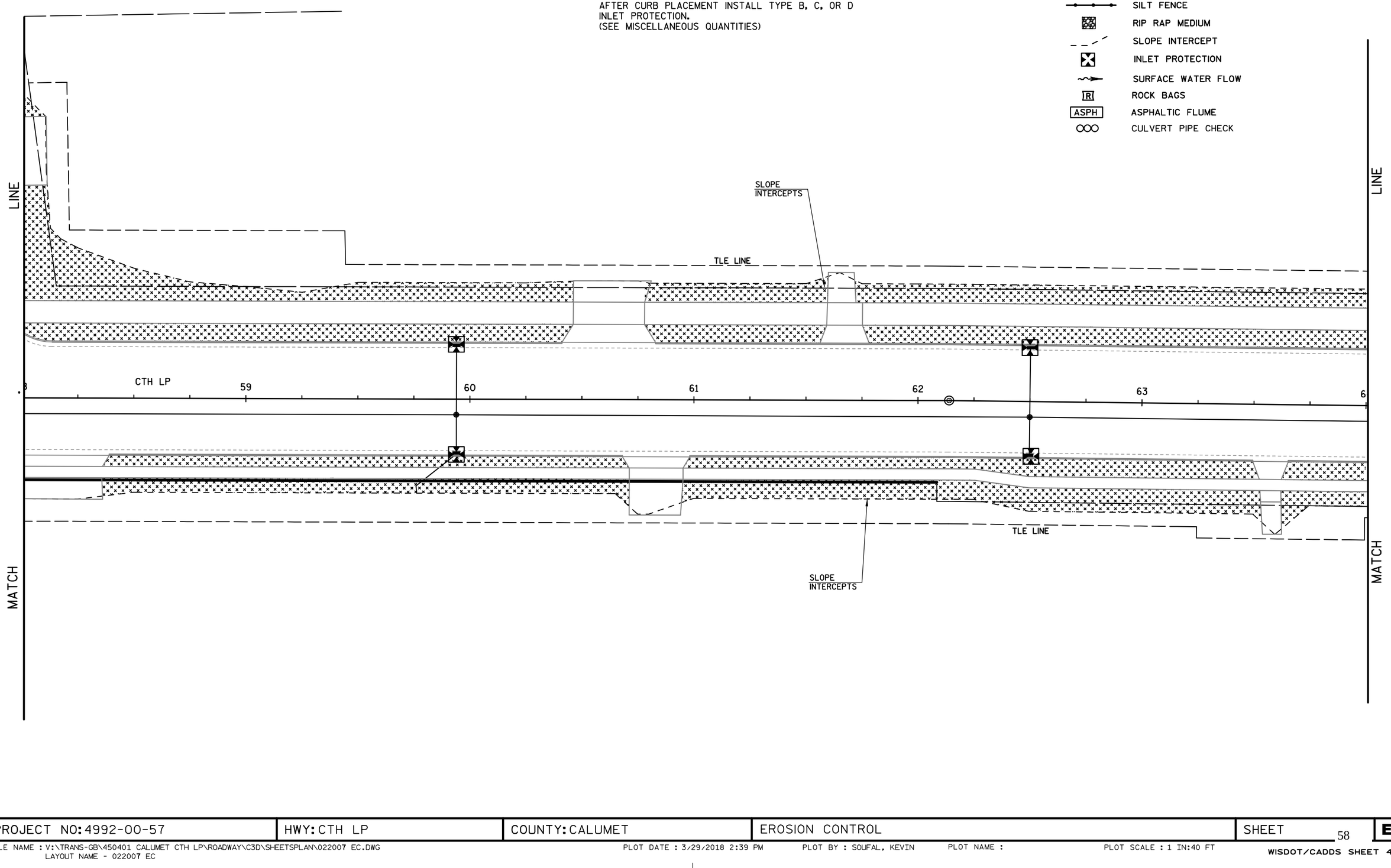
NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS
- ASPH ASPHALTIC FLUME
- CULVERT PIPE CHECK



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 58	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022007 EC.DWG
LAYOUT NAME - 022007 EC

PLOT DATE : 3/29/2018 2:39 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

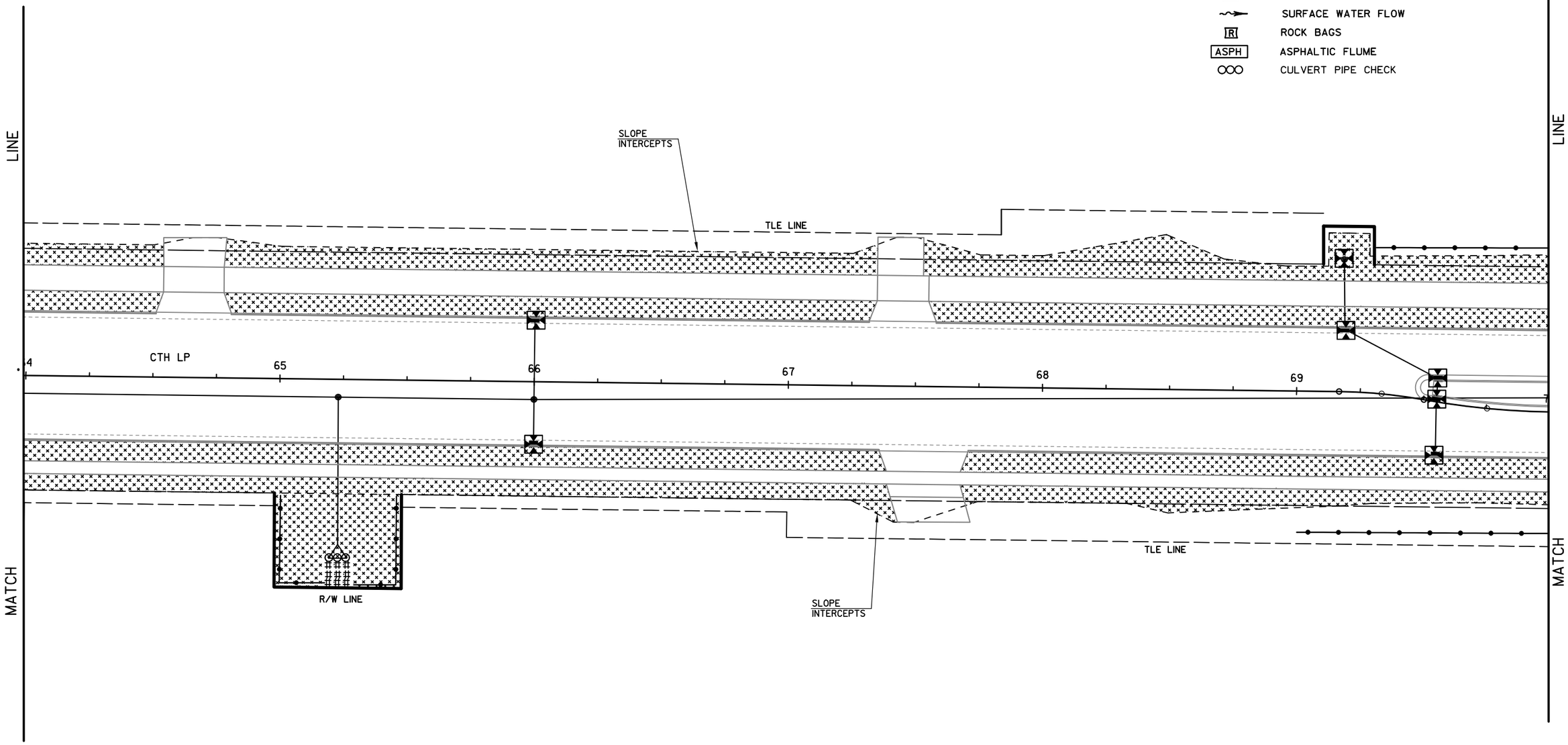
NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS
- ASPH ASPHALTIC FLUME
- CULVERT PIPE CHECK



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 59	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022008 EC.DWG
LAYOUT NAME - 022008 EC

PLOT DATE : 3/29/2018 2:39 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS
- ASPH — ASPHALTIC FLUME
- CULVERT PIPE CHECK

N

MATCH LINE

LINE

MATCH

498

499

499

SLOPE INTERCEPTS

SLOPE INTERCEPTS

TLE LINE

CTH LP

70 71 71 72 72

74 74 75 75 76 76

SLOPE INTERCEPTS

TLE LINE

SLOPE INTERCEPTS

MANITOWOC RD.

501

501

MATCH LINE

MATCH

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 60	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022009 EC.DWG
LAYOUT NAME - 022009 EC

PLOT DATE : 3/29/2018 2:39 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

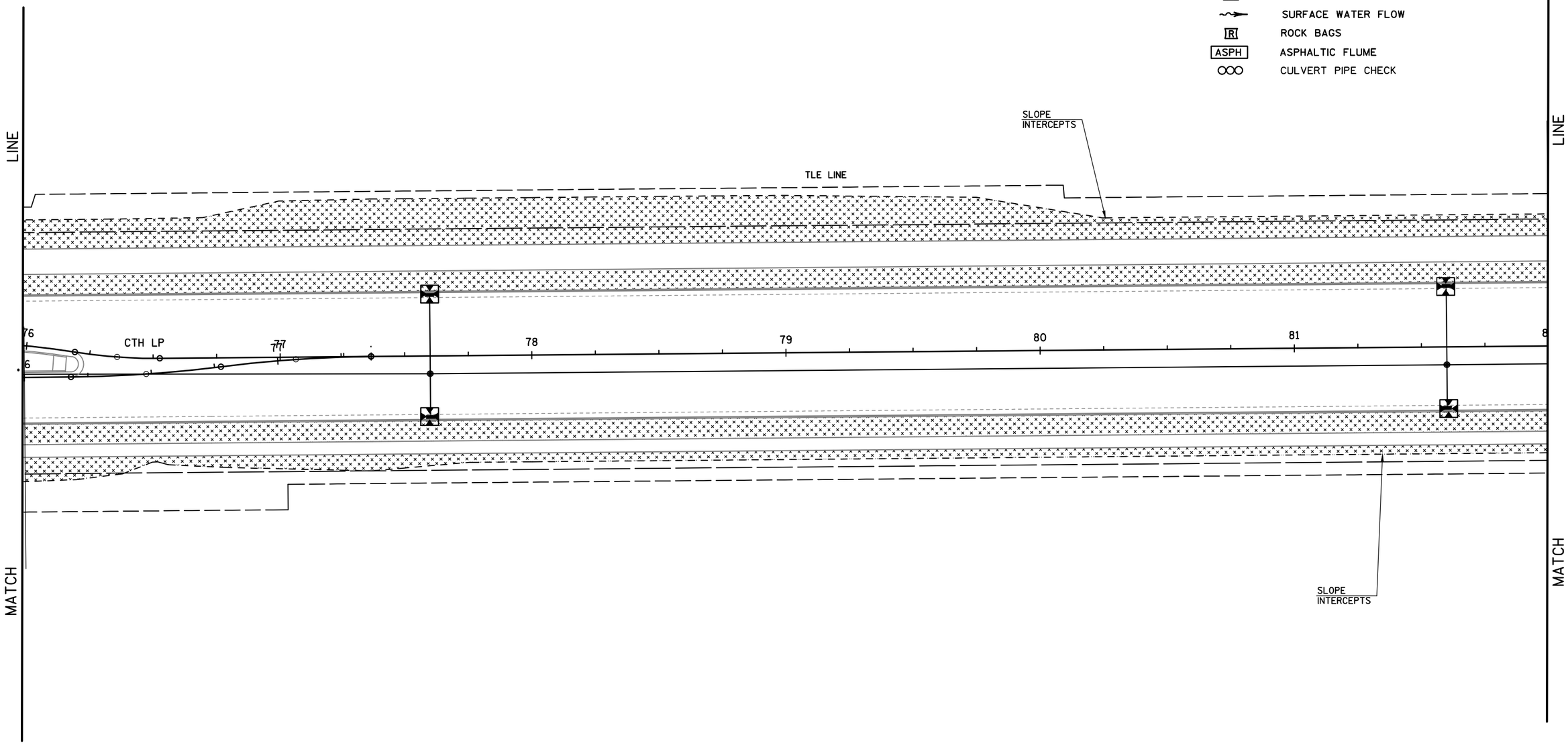
NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- x x x x EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS
- ASPH ASPHALTIC FLUME
- CULVERT PIPE CHECK



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 61	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022010 EC.DWG
LAYOUT NAME - 022010 EC

PLOT DATE : 3/29/2018 2:40 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

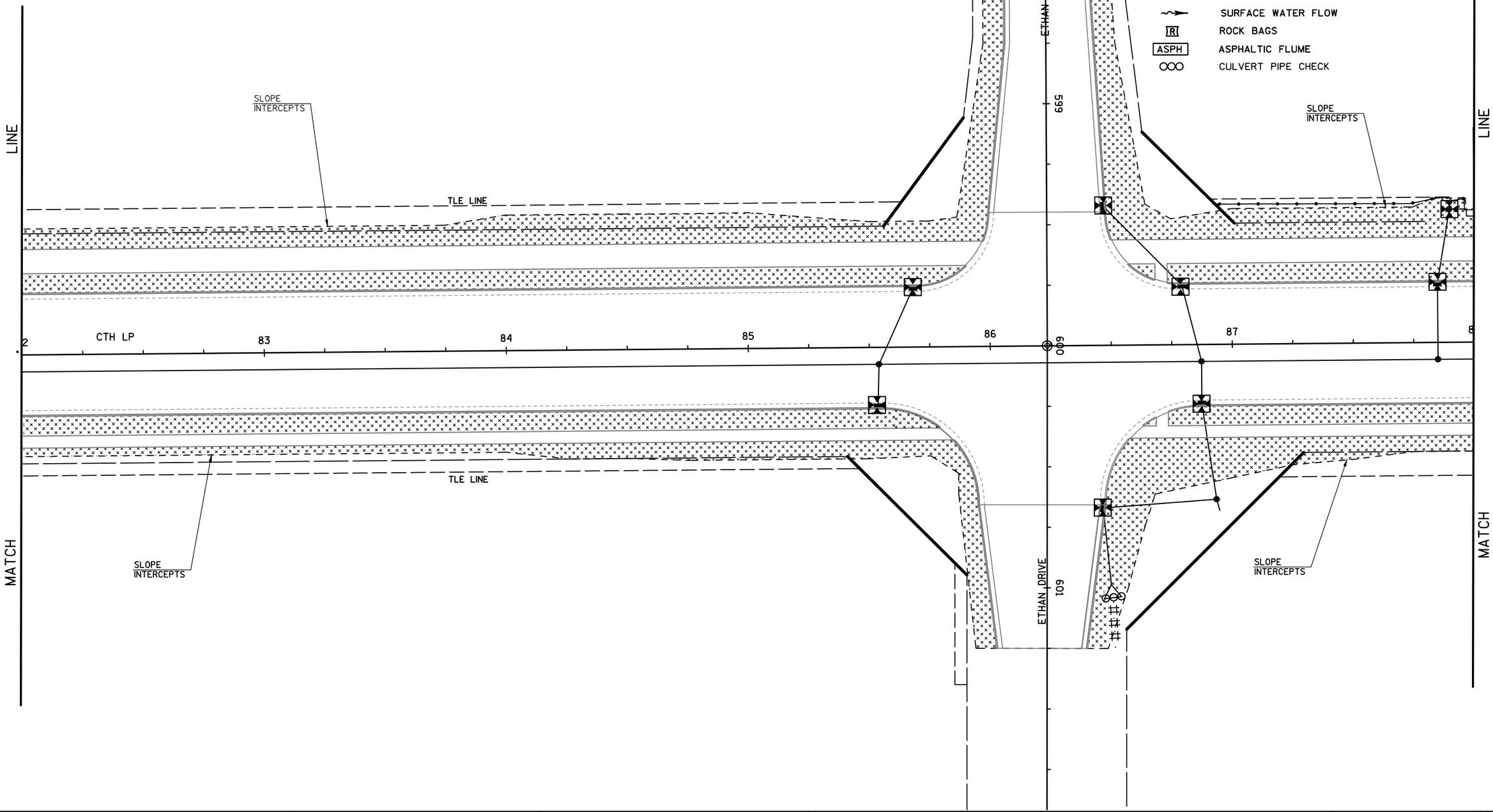
NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS
- ASPH ASPHALTIC FLUME
- CULVERT PIPE CHECK



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 62	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022011 EC.DWG
LAYOUT NAME - 022011 EC

PLOT DATE : 3/29/2018 2:40 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

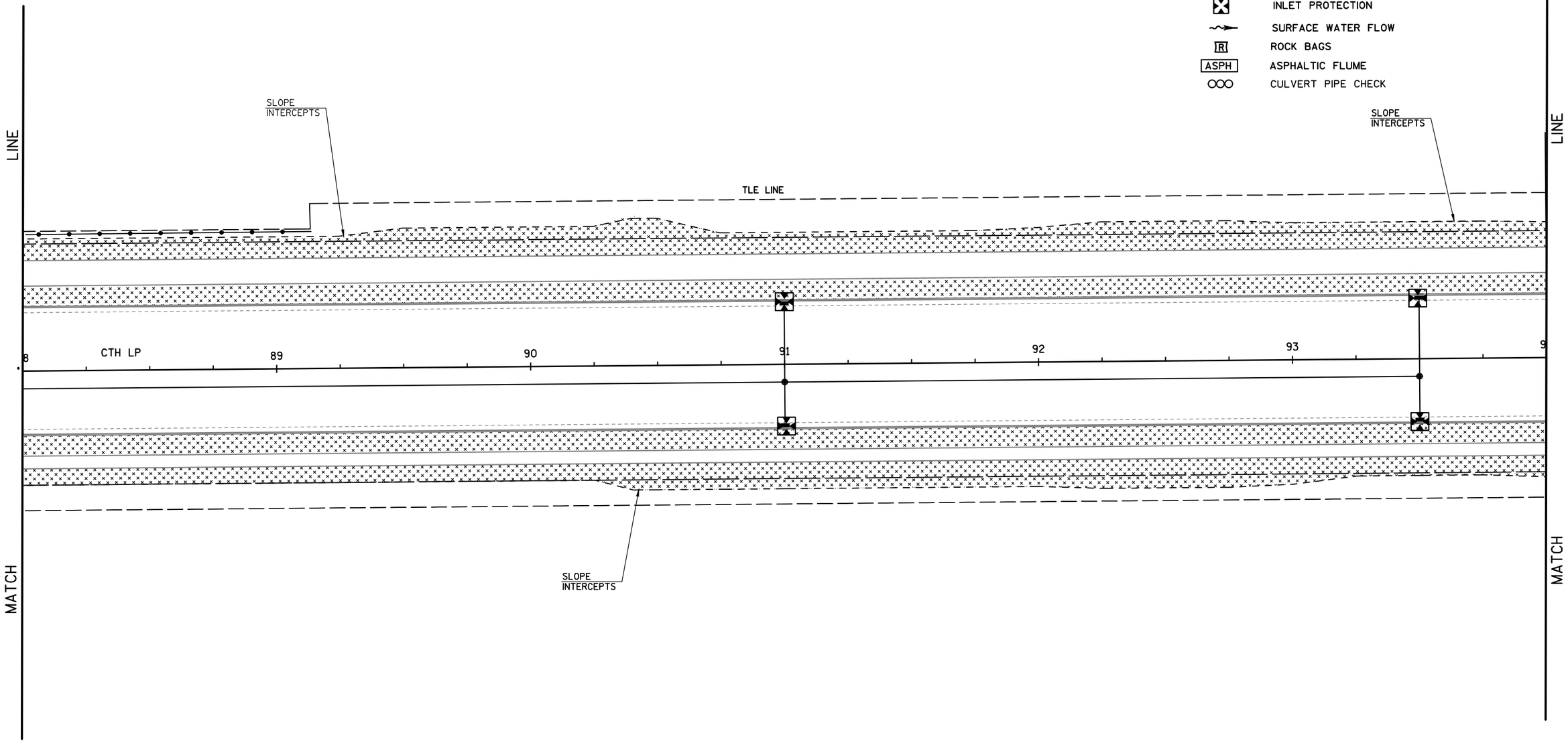
NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS
- ASPH ASPHALTIC FLUME
- CULVERT PIPE CHECK



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 63	E

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS
- ASPHALTIC FLUME
- CULVERT PIPE CHECK

N

2

2

CTH AP (MIDWAY ROAD)

LINE

LINE

SLOPE INTERCEPTS

TLE LINE

CTH LP

4

95

96

97

98

99

SS

SS

SS

TLE LINE

SLOPE INTERCEPTS

MATCH

MATCH

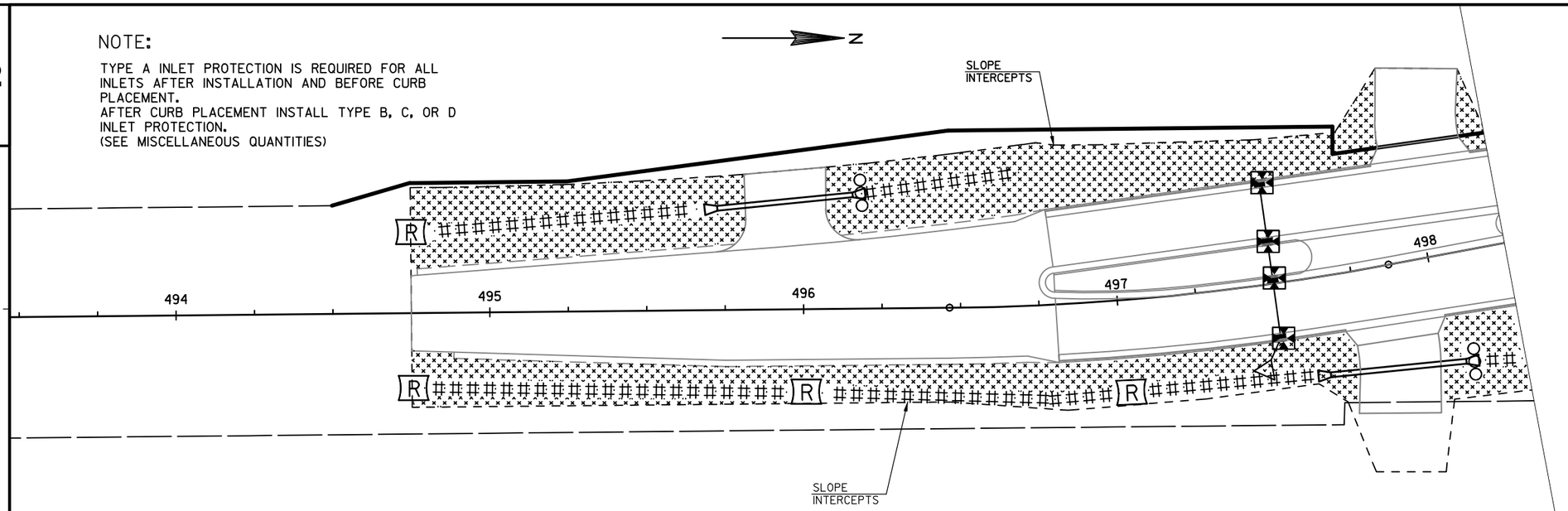
CTH AP (MIDWAY ROAD)

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022013 EC.DWG
LAYOUT NAME - 022013 EC
PLOT DATE : 3/29/2018 2:40 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

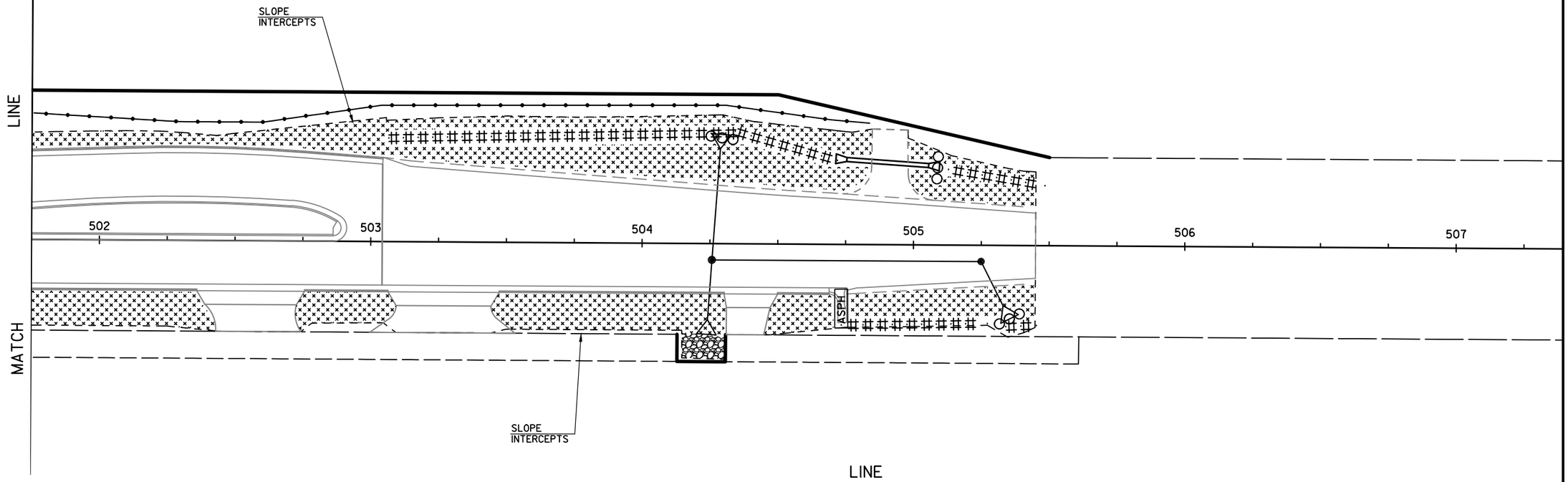
NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)



LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS
- ASPHALTIC FLUME
- CULVERT PIPE CHECK



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	EROSION CONTROL	SHEET 65	E

35 STA 22+19, 65.8' LT
APRON ENDWALLS FOR CPRC 12-INCH

35A STA 22+37, 25.0' LT
CATCH BASINS 2x3-HM-S

31F STA 25+90, 24.5' LT
CATCH BASINS 2x3-H-S

29E STA 30+00, 46.0' LT
MANHOLES 5-J-S
INSTALL ON EXISTING PIPE

28 STA 33+69, 7.0' RT
MANHOLES 5-J-S

28B STA 33+69, 24.5' LT
CATCH BASINS 2x3-H

29C STA 30+00, 7.0' RT
MANHOLES 4-J-S

31B STA 25+85, 24.5' LT
CATCH BASINS 2x3-H-S

30B STA 27+68, 24.5' LT
CATCH BASINS 2x3-H

29B STA 30+85, 24.5' LT
CATCH BASINS 2x3-H

31 STA 25+85, 7.0' RT
MANHOLES 6-J-S

N

24" CMP
12" CMP
15" CMP
18"PCP
(CONCRETE) 24" CMCP
18" CMP
24" CMCP
12" CMP
24" CMP
CABC
24" CMP

20NB 25NB CTH LP 30NB 35NB

200 202

OLD HIGHWAY RD.
USH 10/STH 114
USH 10/STH 114

SAMH SAN FMH GV SIGN PLT CP 6 TV SSMH ASPH PE ASPH PARKING LOT INLET EPED SONNY DRIVE

32 STA 23+86, 7.0' RT
MANHOLES 4-J-S

32A STA 23+81, 42.5' RT
CATCH BASINS 3-C

31G STA 25+94, 24.5' RT
CATCH BASINS 2x3-H-S

31A STA 25+85, 24.5' RT
CATCH BASINS 5-H-S

30A STA 28+15, 24.5' RT
CATCH BASINS 2x3-H

29 STA 30+85, 7.0' RT
MANHOLES 4-J-S

29A STA 30+85, 33.1' RT
CATCH BASINS 2x3-H

28A STA 33+69, 34.9' RT
CATCH BASINS 2x3-H

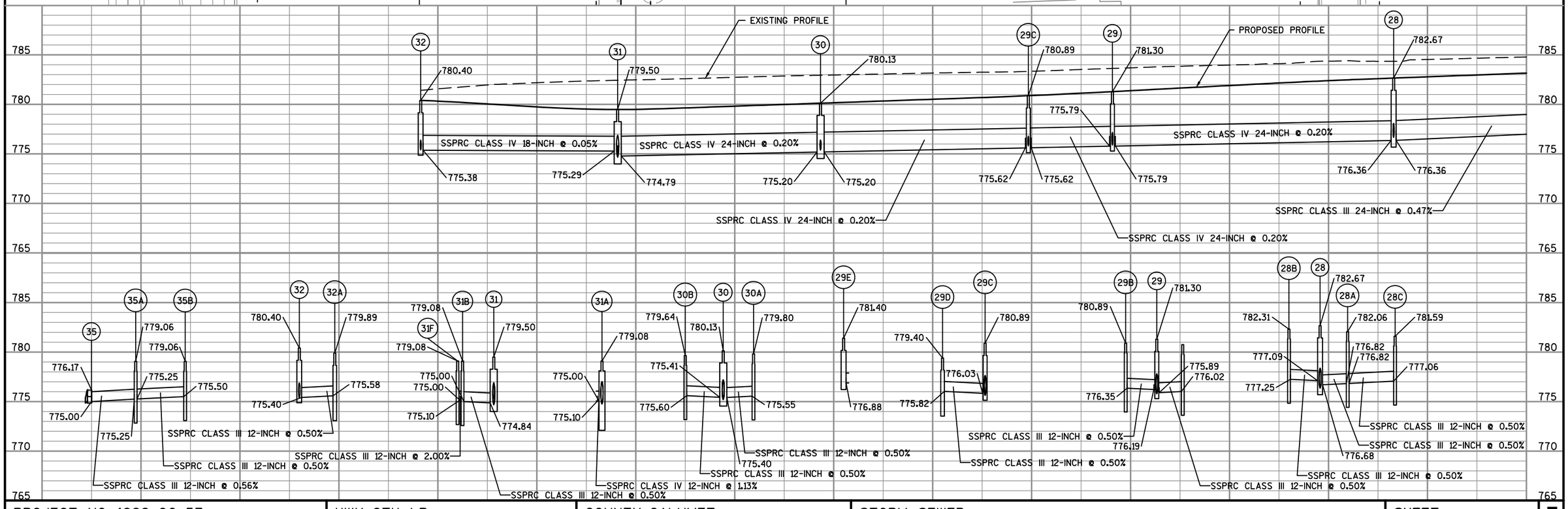
35B STA 22+37, 25.0' RT
CATCH BASINS 2x3-HM-S

30 STA 27+90, 7.0' RT
MANHOLES 6-J-S

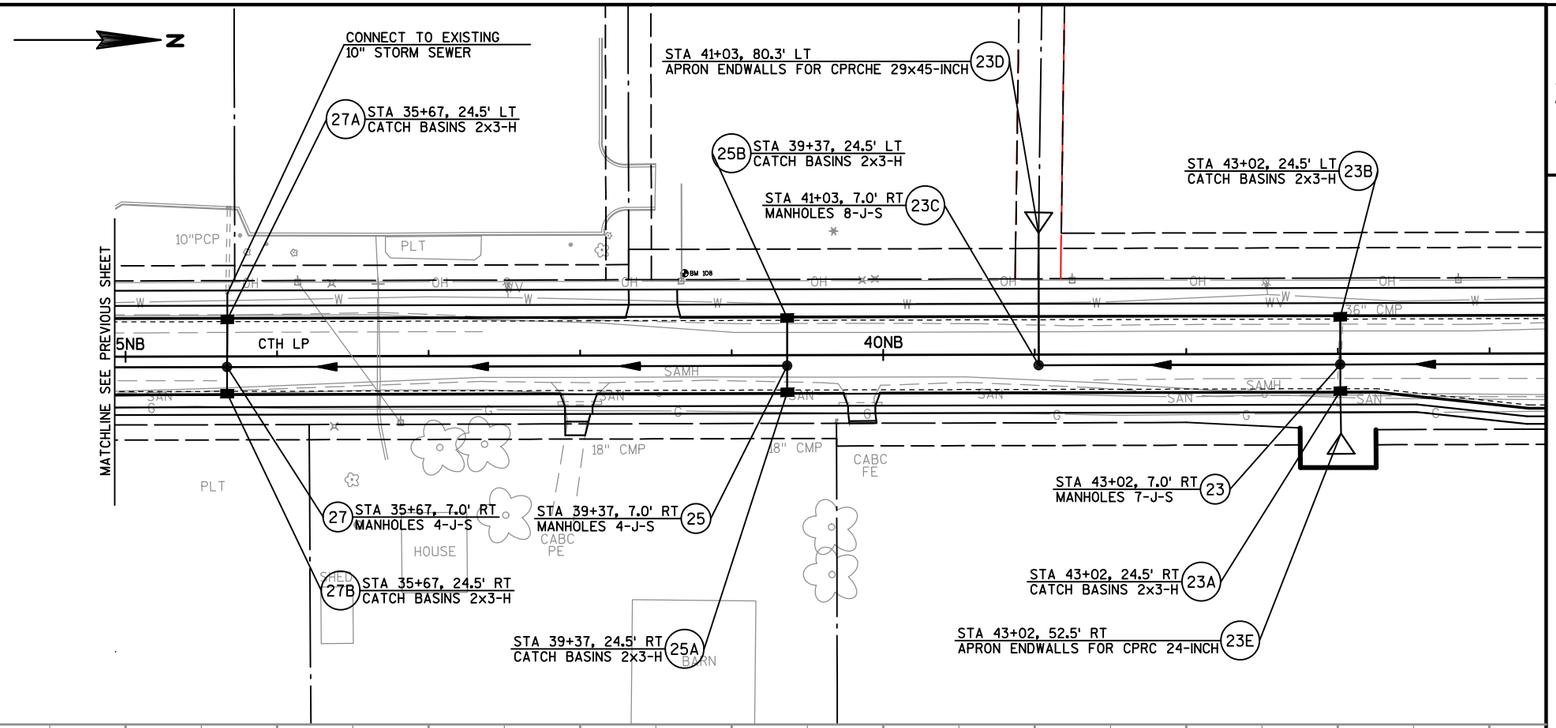
29D STA 30+00, 50.0' RT
CATCH BASINS 3-C

28C STA 200+68, 23.5' LT
CATCH BASINS 2x3-H-S

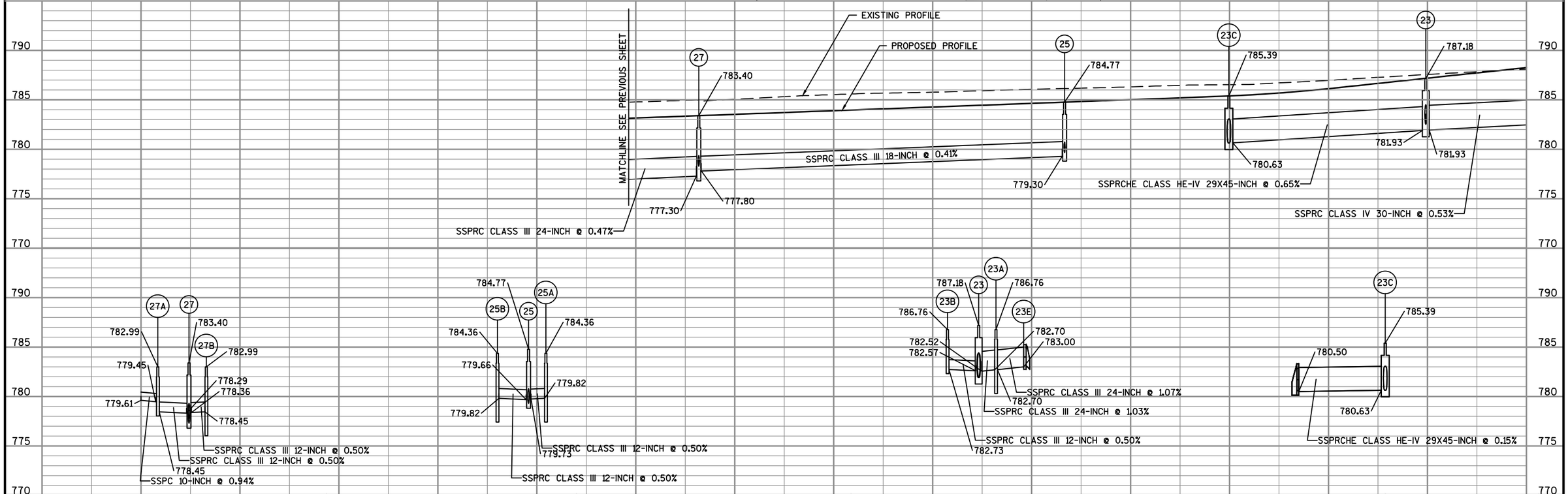
NOTES:
- OFFSET DISTANCE TO CENTER FOR MANHOLES, CENTER OF INLETS, AND END OF ENDWALL.
- GRATE ELEVATION IS FIGURED TO CENTER OF INLET, CENTER OF MANHOLE COVER, AND ENDWALL INVERT.



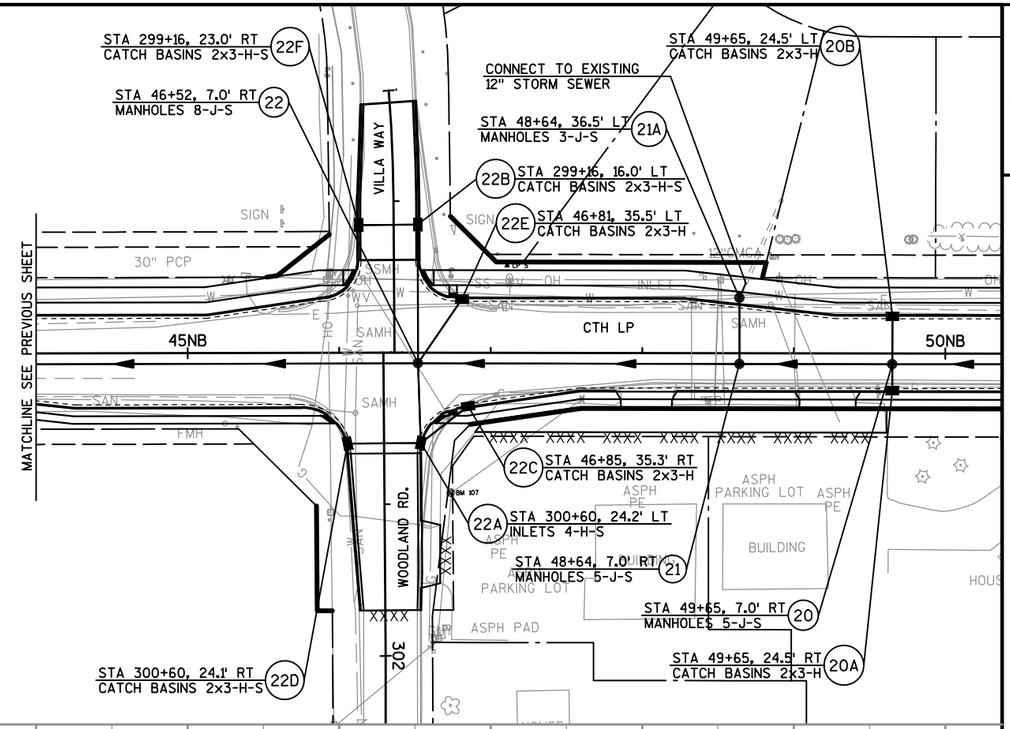
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	STORM SEWER	SHEET 66	E



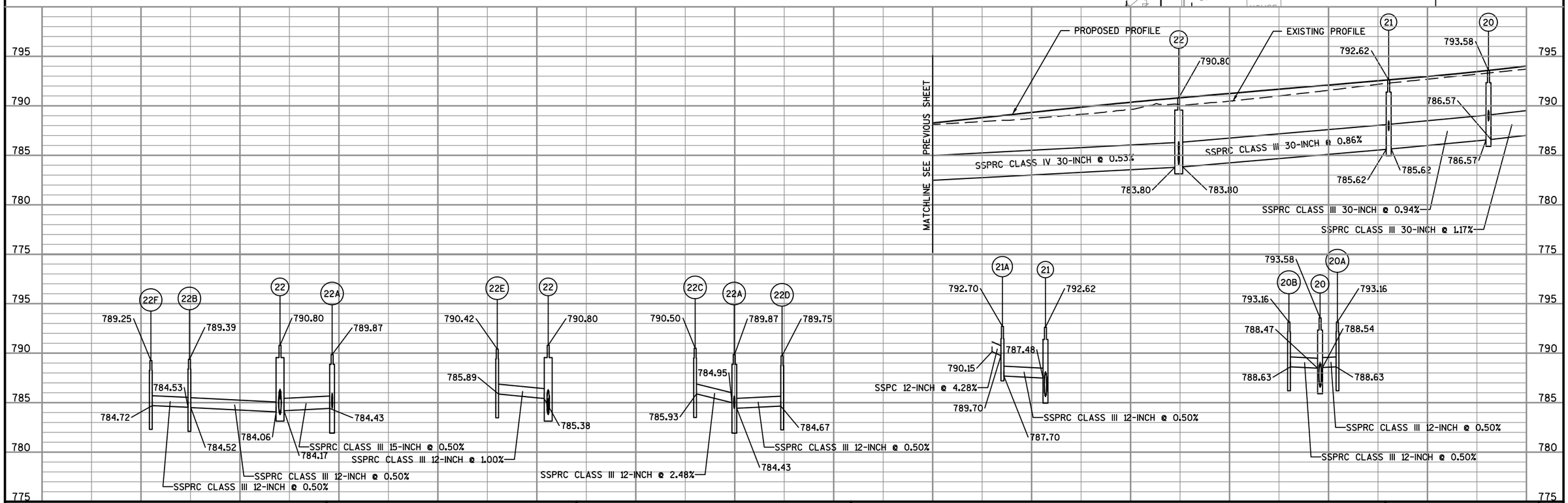
NOTES:
- OFFSET DISTANCE TO CENTER FOR MANHOLES, CENTER OF INLETS, AND END OF ENDWALL.
- GRATE ELEVATION IS FIGURED TO CENTER OF INLET, CENTER OF MANHOLE COVER, AND ENDWALL INVERT.



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	STORM SEWER	SHEET 67	E



NOTES:
- OFFSET DISTANCE TO CENTER FOR MANHOLES, CENTER OF INLETS, AND END OF ENDWALL.
- GRATE ELEVATION IS FIGURED TO CENTER OF INLET, CENTER OF MANHOLE COVER, AND ENDWALL INVERT.



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	STORM SEWER	SHEET 68	E

2

STA 52+97, 24.5' LT
CATCH BASINS 2x3-H (19B)

STA 52+97, 7.0' RT
MANHOLES 5-J-S (19)

STA 399+51, 23.5' RT
CATCH BASINS 2x3-H-S (16A)

STA 54+85, 24.5' LT
CATCH BASINS 2x3-H (18B)

STA 399+51, 16.5' LT
CATCH BASINS 2x3-H-S (16B)

STA 59+94, 24.5' LT
CATCH BASINS 2x3-H-S (15B)

STA 59+94, 7.0' RT
MANHOLES 5-J-S (15)

STA 62+50, 24.5' LT
CATCH BASINS 2x3-H (14B)

STA 62+50, 7.0' RT
MANHOLES 5-J-S (14)

50NB

CTH LP

55NB

60NB

65NB

WINNIPEG ST.

STA 52+97, 24.5' RT
CATCH BASINS 2x3-H (19A)

STA 52+99, 42.0' RT
CATCH BASINS 3-C (19C)

CONNECT TO EXISTING
8" STORM SEWER

STA 54+85, 7.0' RT
MANHOLES 5-J-S (18)

STA 54+85, 24.5' RT
CATCH BASINS 2x3-H (18A)

STA 54+85, 44.0' RT
CATCH BASINS 3-C (18C)

STA 57+48, 7.0' RT
MANHOLES 5-J-S (16)

STA 56+86, 7.0' RT
MANHOLES 5-J-S (17)

STA 56+86, 24.5' RT
CATCH BASINS 2x3-H (17A)

STA 56+86, 44.0' RT
CATCH BASINS 3-C (17B)

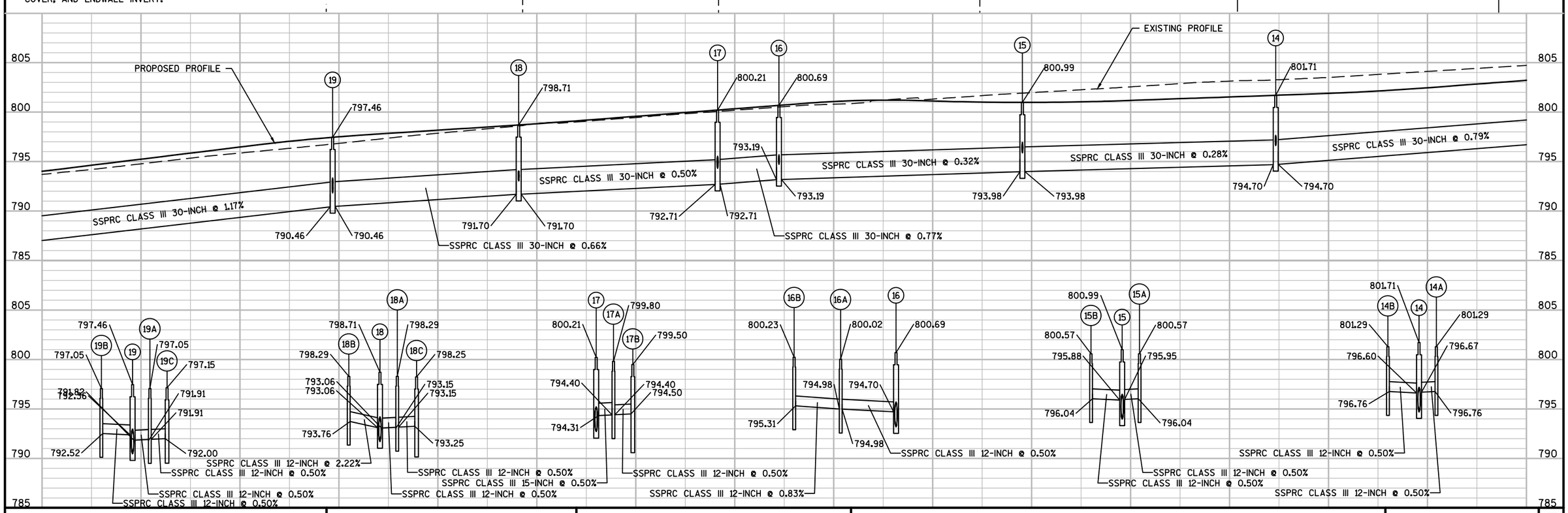
CONNECT TO EXISTING
4" AND 6" STORM SEWERS

STA 59+94, 24.5' RT
CATCH BASINS 2x3-H-S (15A)

CONNECT TO EXISTING
4" STORM SEWER

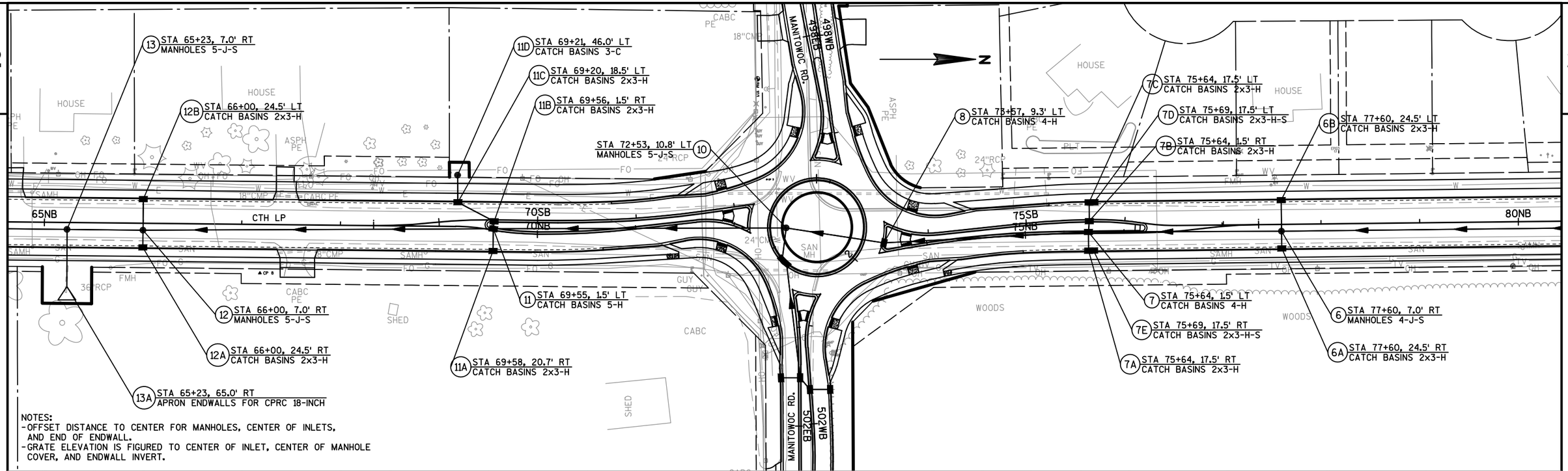
STA 62+50, 24.5' RT
CATCH BASINS 2x3-H (14A)

NOTES:
- OFFSET DISTANCE TO CENTER FOR MANHOLES, CENTER OF INLETS, AND END OF ENDWALL.
- GRATE ELEVATION IS FIGURED TO CENTER OF INLET, CENTER OF MANHOLE COVER, AND ENDWALL INVERT.

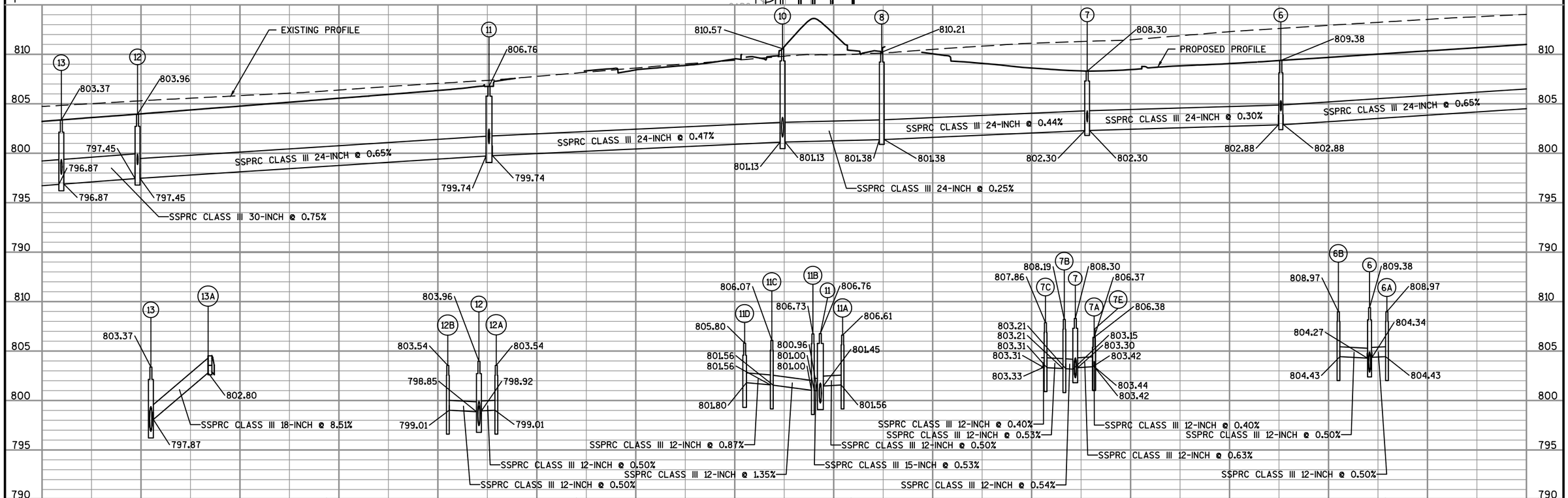


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	STORM SEWER	SHEET E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022504 SS
PLOT DATE : 8/7/2018 3:45 PM
PLOT BY : AYRES ASSOCIATES
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41

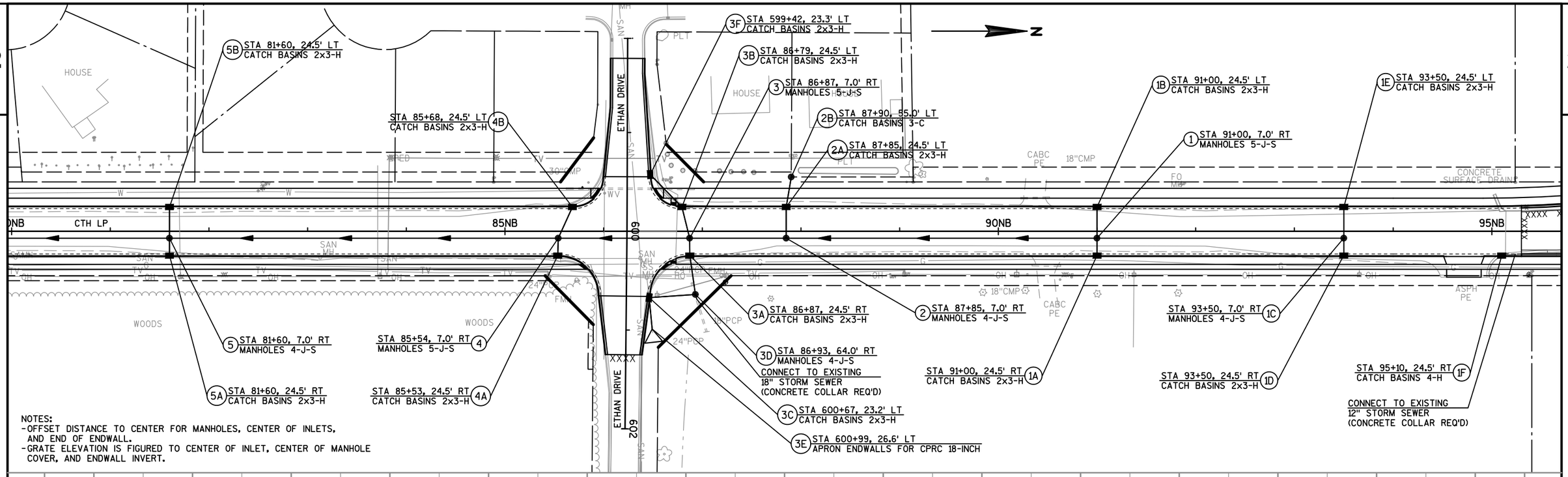


NOTES:
- OFFSET DISTANCE TO CENTER FOR MANHOLES, CENTER OF INLETS, AND END OF ENDWALL.
- GRATE ELEVATION IS FIGURED TO CENTER OF INLET, CENTER OF MANHOLE COVER, AND ENDWALL INVERT.

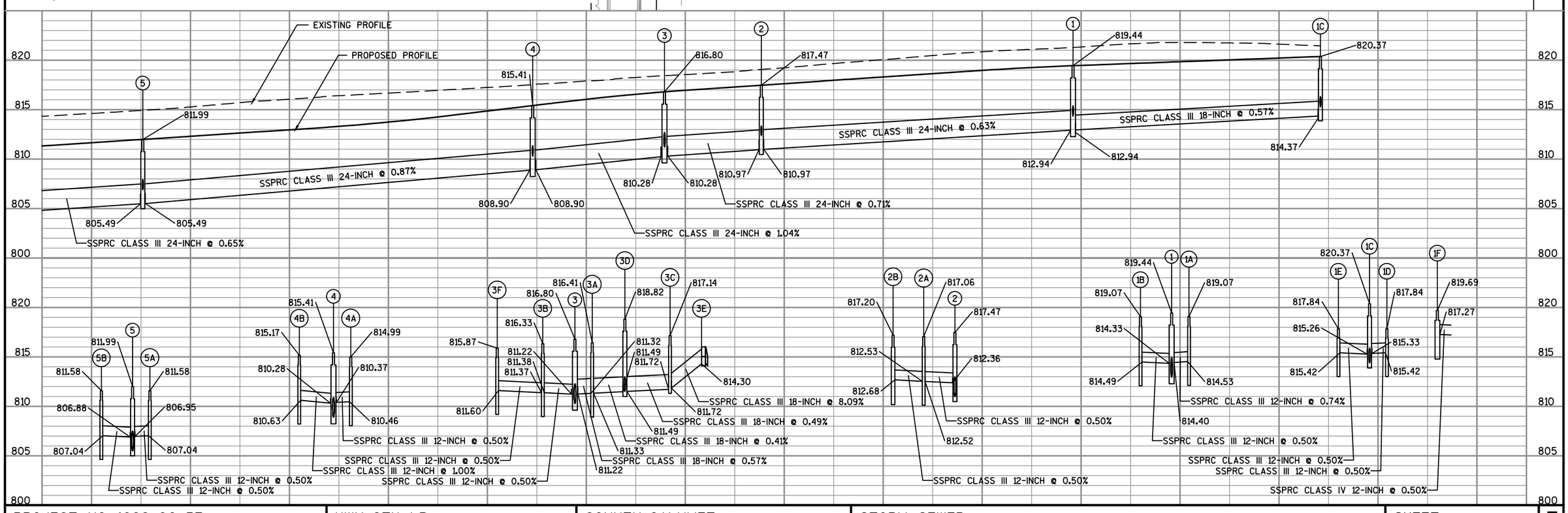


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	STORM SEWER	SHEET 70 E

2

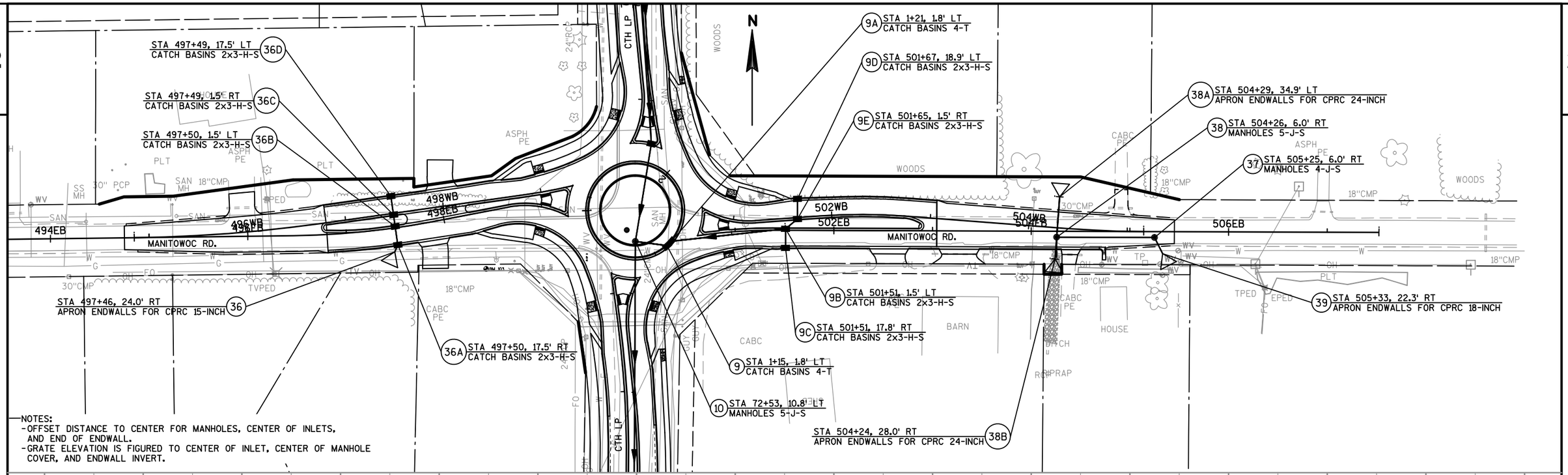


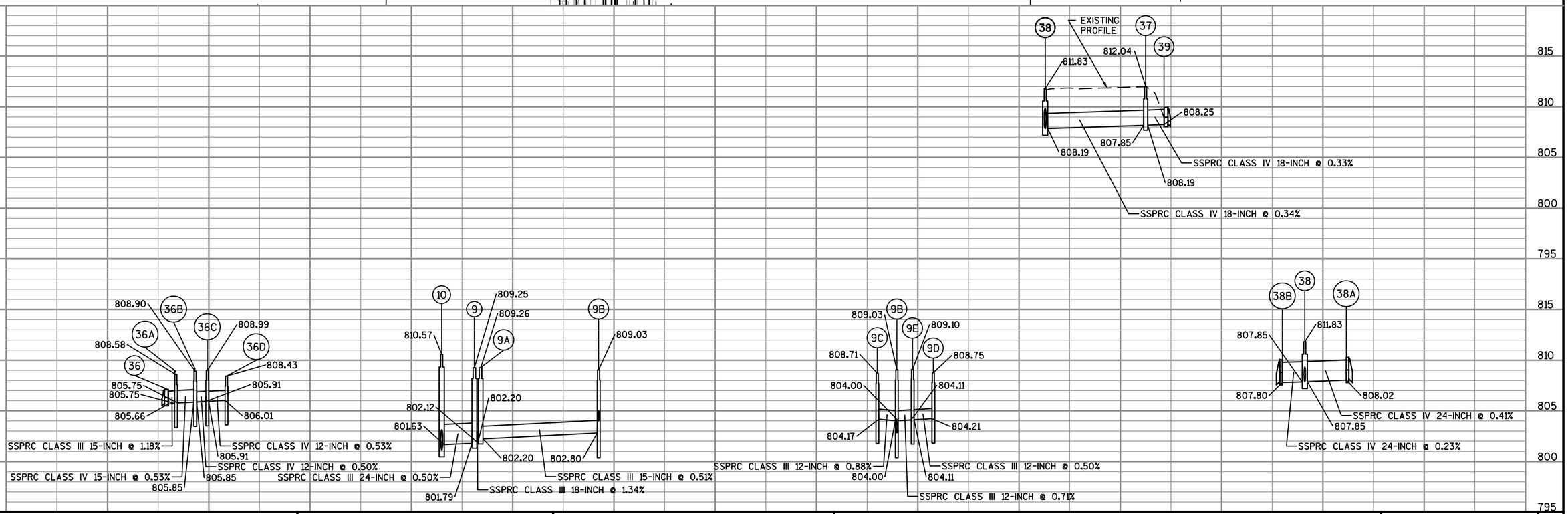
NOTES:
- OFFSET DISTANCE TO CENTER FOR MANHOLES, CENTER OF INLETS, AND END OF ENDWALL.
- GRATE ELEVATION IS FIGURED TO CENTER OF INLET, CENTER OF MANHOLE COVER, AND ENDWALL INVERT.



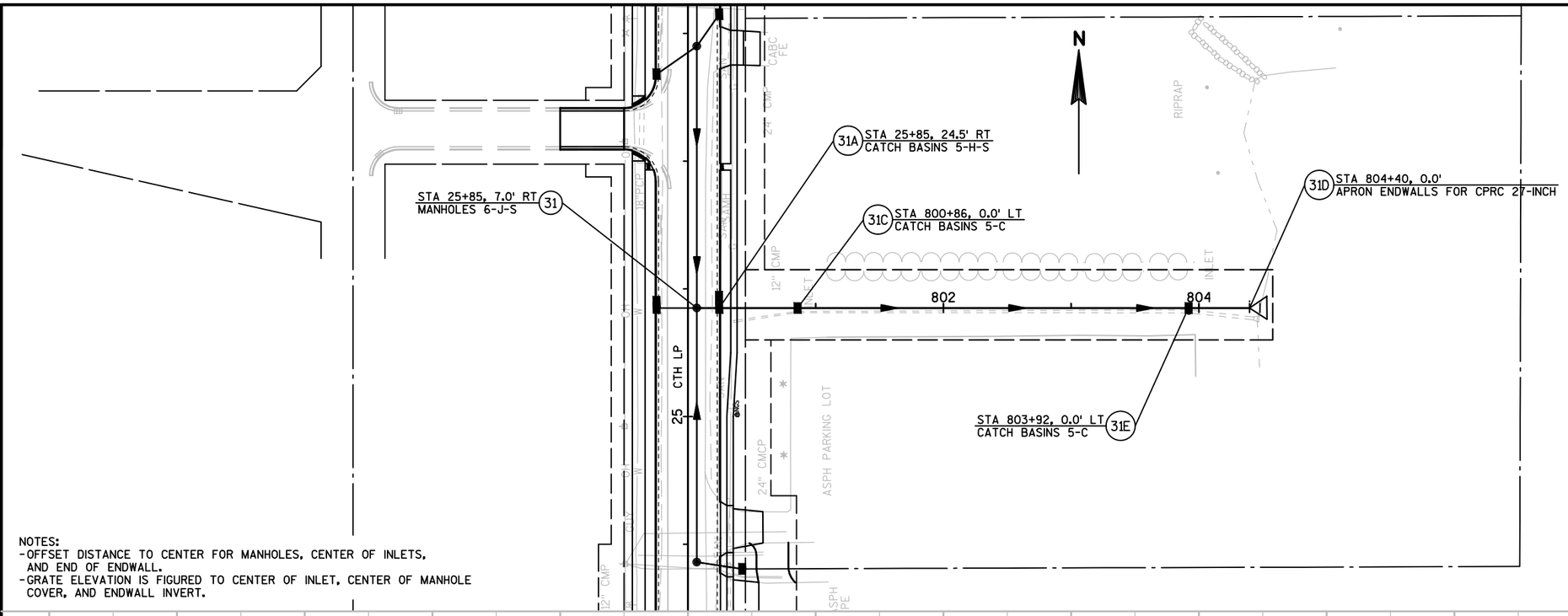
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	STORM SEWER	SHEET 71 E

2

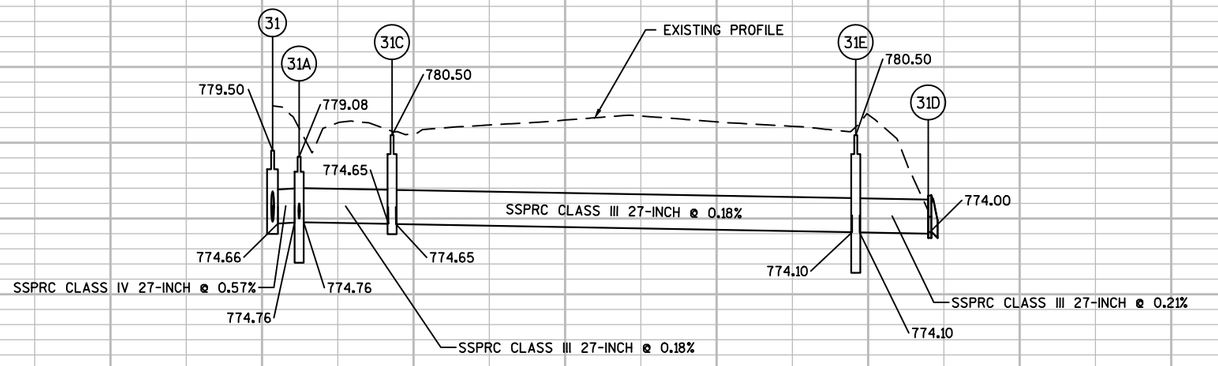




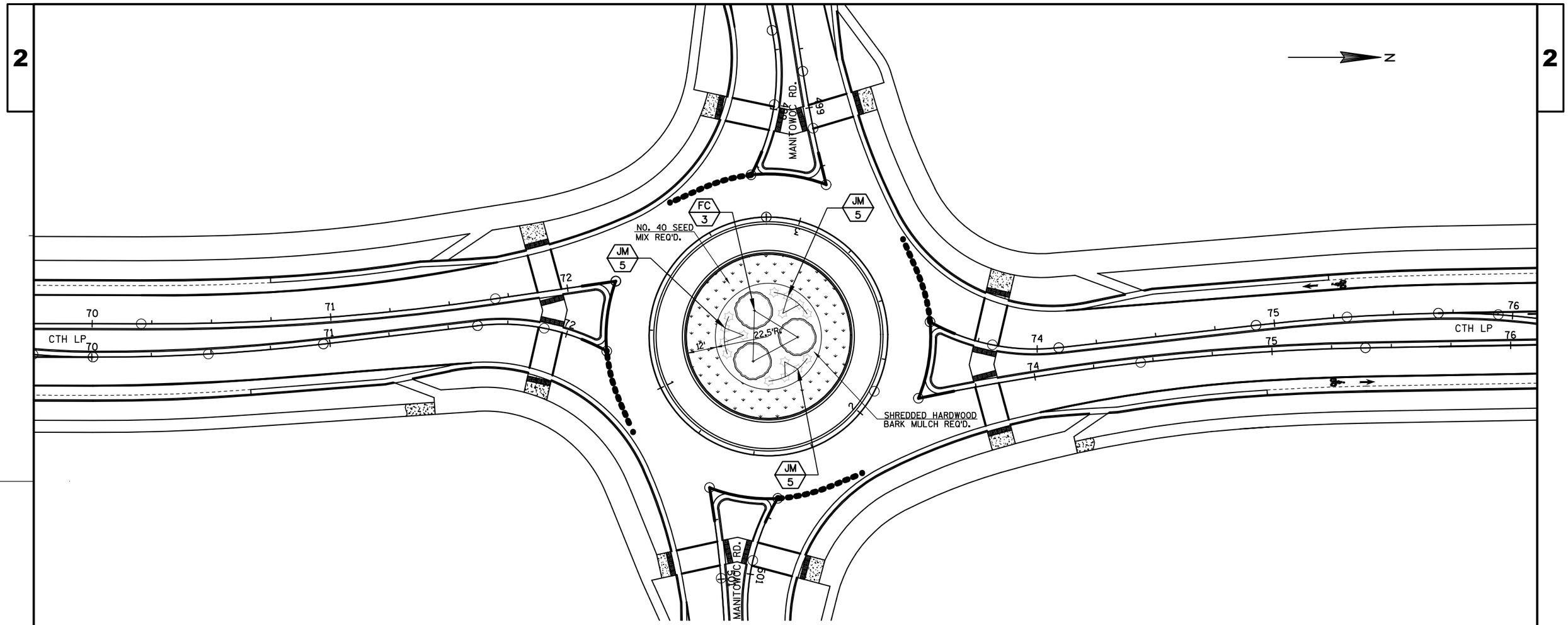
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	STORM SEWER	SHEET 72	E



NOTES:
- OFFSET DISTANCE TO CENTER FOR MANHOLES, CENTER OF INLETS, AND END OF ENDWALL.
- GRATE ELEVATION IS FIGURED TO CENTER OF INLET, CENTER OF MANHOLE COVER, AND ENDWALL INVERT.



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	STORM SEWER	SHEET 73 E



PLANT DATA CHART

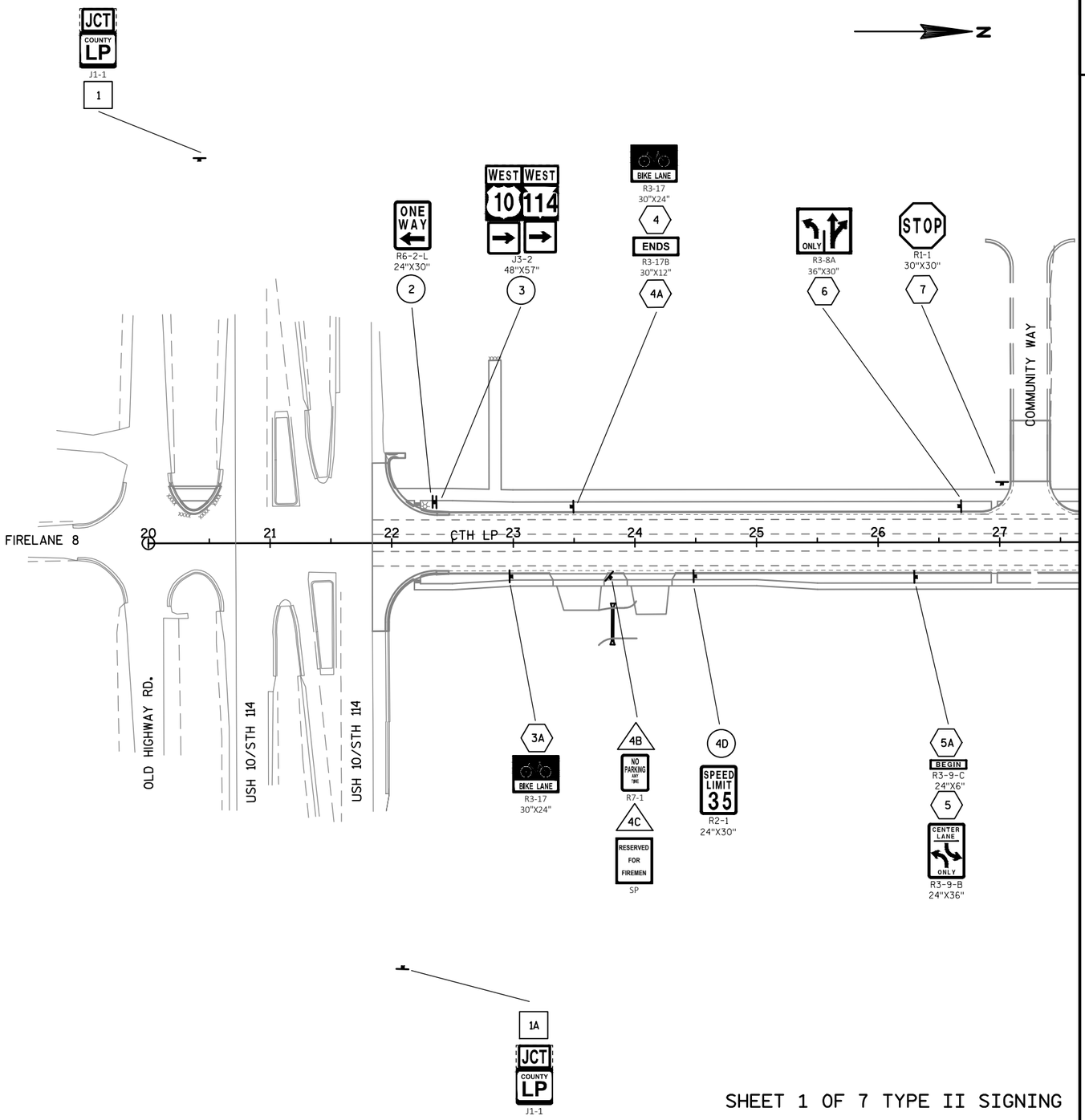
PLANT CODE	COMMON NAME	SCIENTIFIC NAME	AVERAGE MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE MODE	MINIMUM SIZE					GUY OR BRACE	FERTILIZER PACKAGE REQUIRED	RODENT PROTECTION REQUIRED	MULCH RING DIAMETER
						MINIMUM BALL OR POT SIZE		ROOT SPREAD	MINIMUM HOLE SIZE					
						MIN. CONT. SIZE	MIN. CONT. DEPTH		MIN. CONT. SIZE	MIN. CONT. DEPTH				
SMALL GROWING DECIDUOUS TREE														
FC	FLOWERING CRABTREE	MALUS 'DONALD WYMAN'	12'	2" CAL.	B&B	24"	14"	---	48"	14"	NO	3	NO	60'
EVERGREEN SHRUB														
JM	MANEY JUNIPER	JUNIPERUS CHINENSIS 'MANEY'	3'	30" HT	CG	14"	9"	---	38"	9"	NO	2	NO	BED

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STACKED OR BACK TO BACK, WILL BE PAID AS ONE (1) SIGN REMOVAL.



(X) SIGN-REMOVE AND REPLACE

[X] SIGN-REMOVE EXISTING

⟨X⟩ SIGN-PLACE NEW

△X SIGN-MOVE FOR CONSTRUCTION AND REINSTALL

SHEET 1 OF 7 TYPE II SIGNING

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PERMANENT SIGNING	SHEET	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\023201 PS.DWG
LAYOUT NAME - 023201 PS

PLOT DATE : 3/29/2018 2:45 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:100 FT

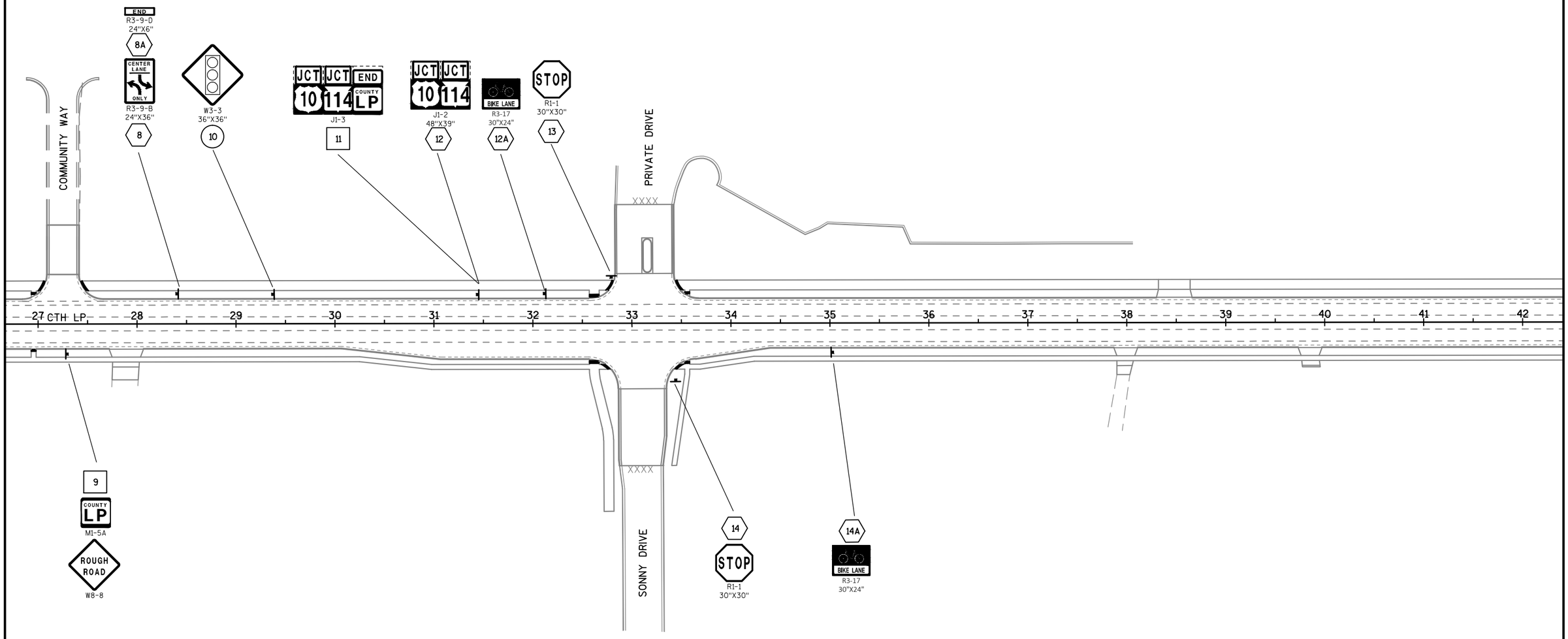
2

SIGNING NOTES

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(X) SIGN-REMOVE AND REPLACE

[X] SIGN-REMOVE EXISTING

⬡ X SIGN-PLACE NEW

△ X SIGN-MOVE FOR CONSTRUCTION AND REINSTALL

SHEET 2 OF 7 TYPE II SIGNING

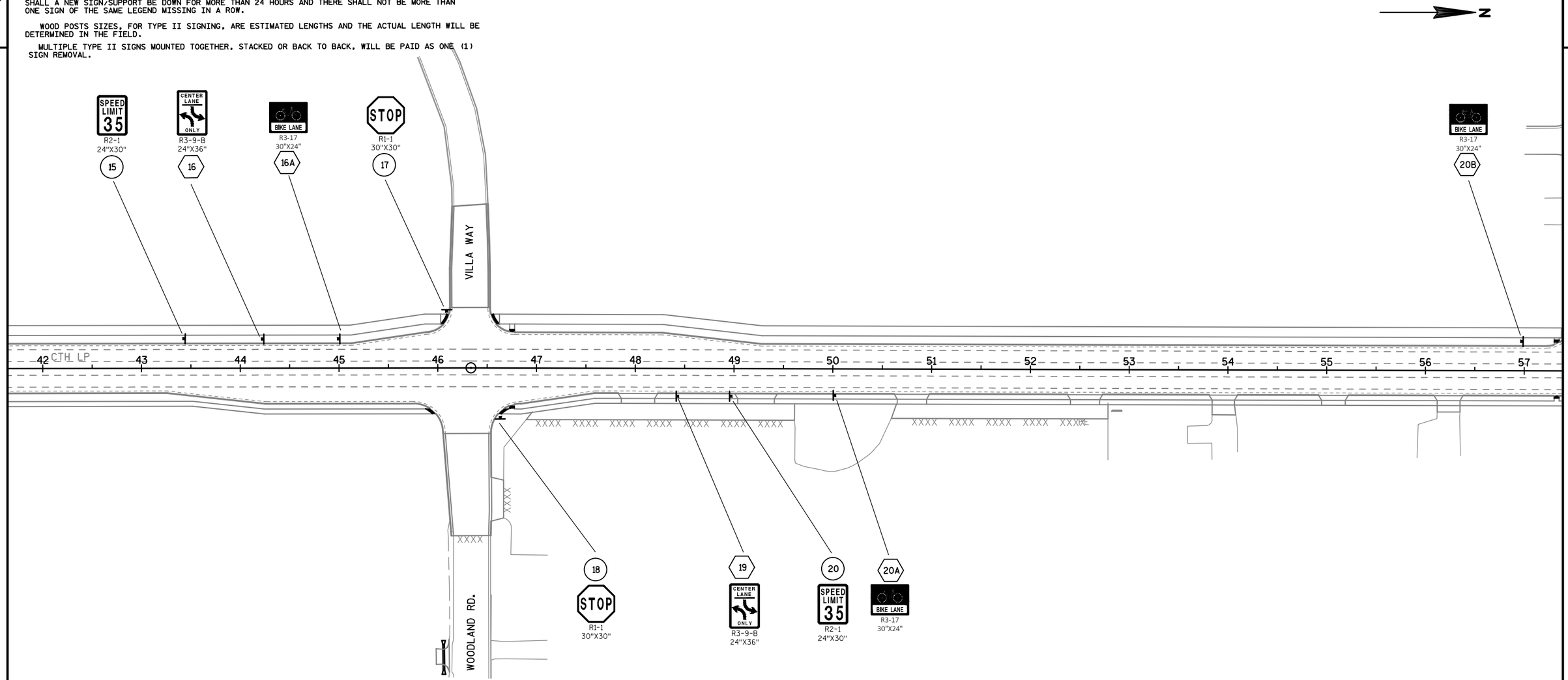
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PERMANENT SIGNING	SHEET 76	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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[X] SIGN-REMOVE EXISTING

⬡ X ⬡ SIGN-PLACE NEW

△ X △ SIGN-MOVE FOR CONSTRUCTION AND REINSTALL

SHEET 3 OF 7 TYPE II SIGNING

PROJECT NO:4992-00-57	HWY:CTH LP	COUNTY:CALUMET	CTH LP	SHEET 77	E

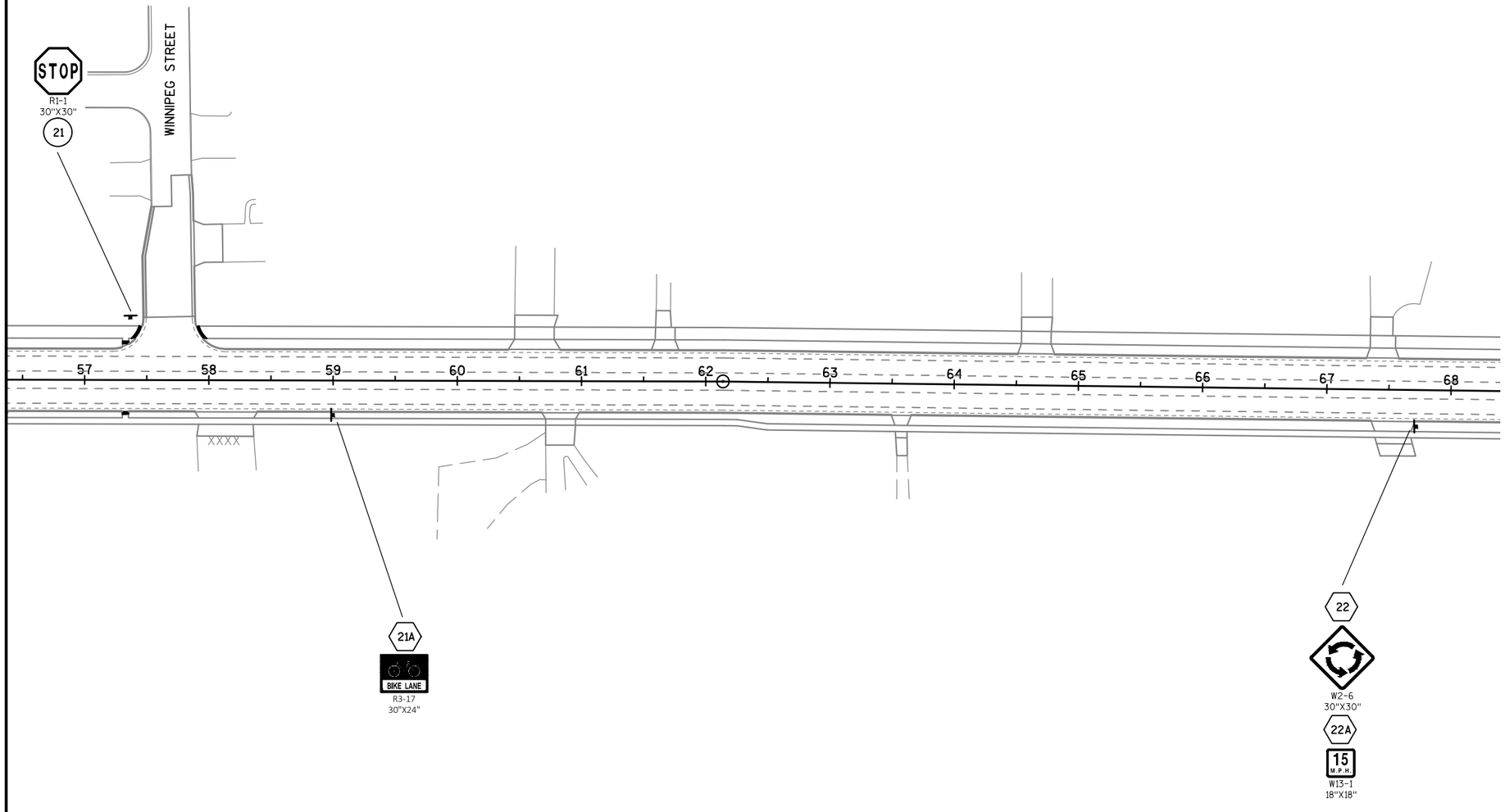
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SIGNING NOTES

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[X] SIGN-REMOVE EXISTING

<X> SIGN-PLACE NEW

<X> SIGN-MOVE FOR CONSTRUCTION AND REINSTALL

SHEET 4 OF 7 TYPE II SIGNING

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PERMANENT SIGNING	SHEET 78	E

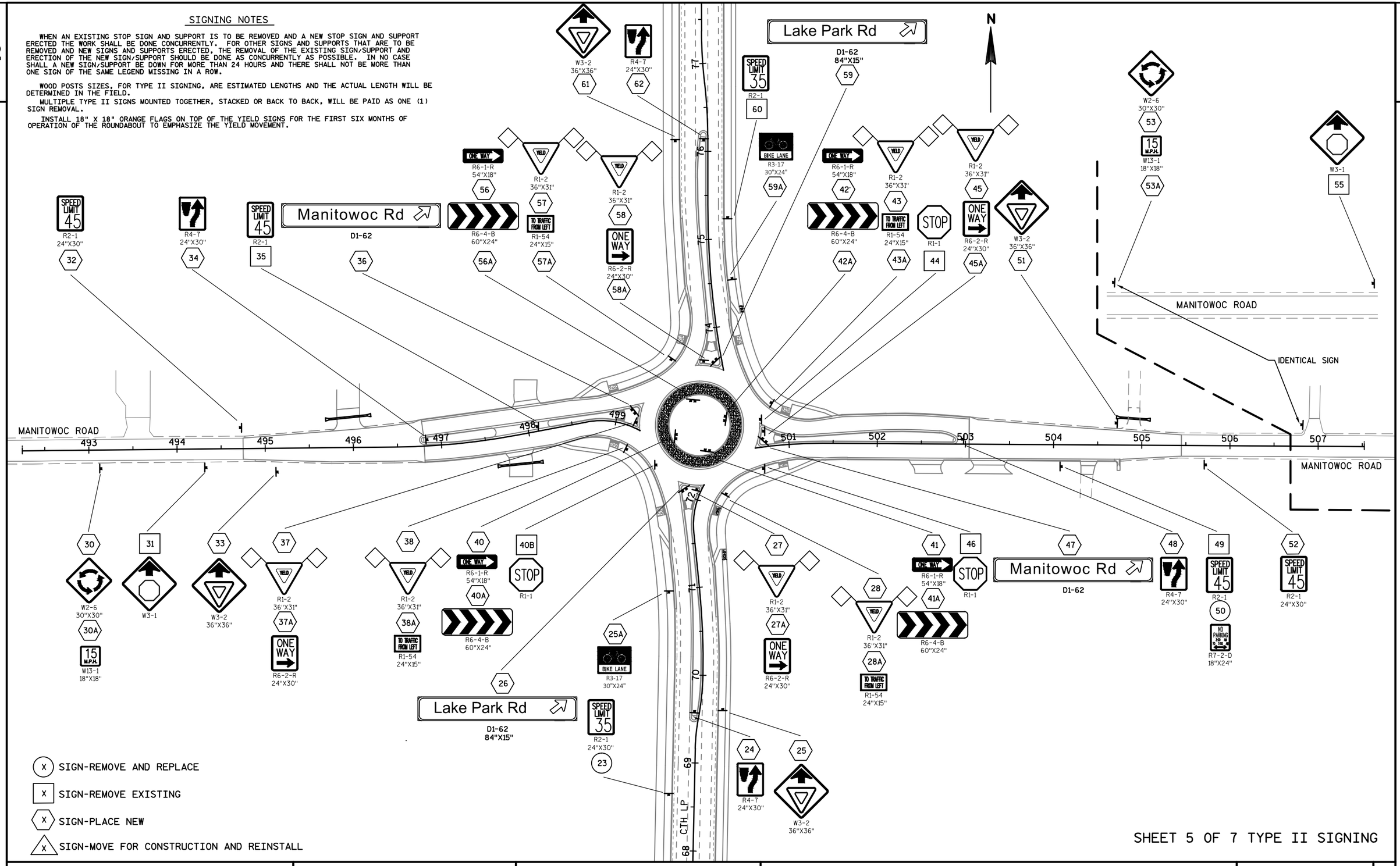
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MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STACKED OR BACK TO BACK, WILL BE PAID AS ONE (1) SIGN REMOVAL.

INSTALL 18" X 18" ORANGE FLAGS ON TOP OF THE YIELD SIGNS FOR THE FIRST SIX MONTHS OF OPERATION OF THE ROUNDABOUT TO EMPHASIZE THE YIELD MOVEMENT.



(X) SIGN-REMOVE AND REPLACE

[X] SIGN-REMOVE EXISTING

(X) SIGN-PLACE NEW

<X> SIGN-MOVE FOR CONSTRUCTION AND REINSTALL

SHEET 5 OF 7 TYPE II SIGNING

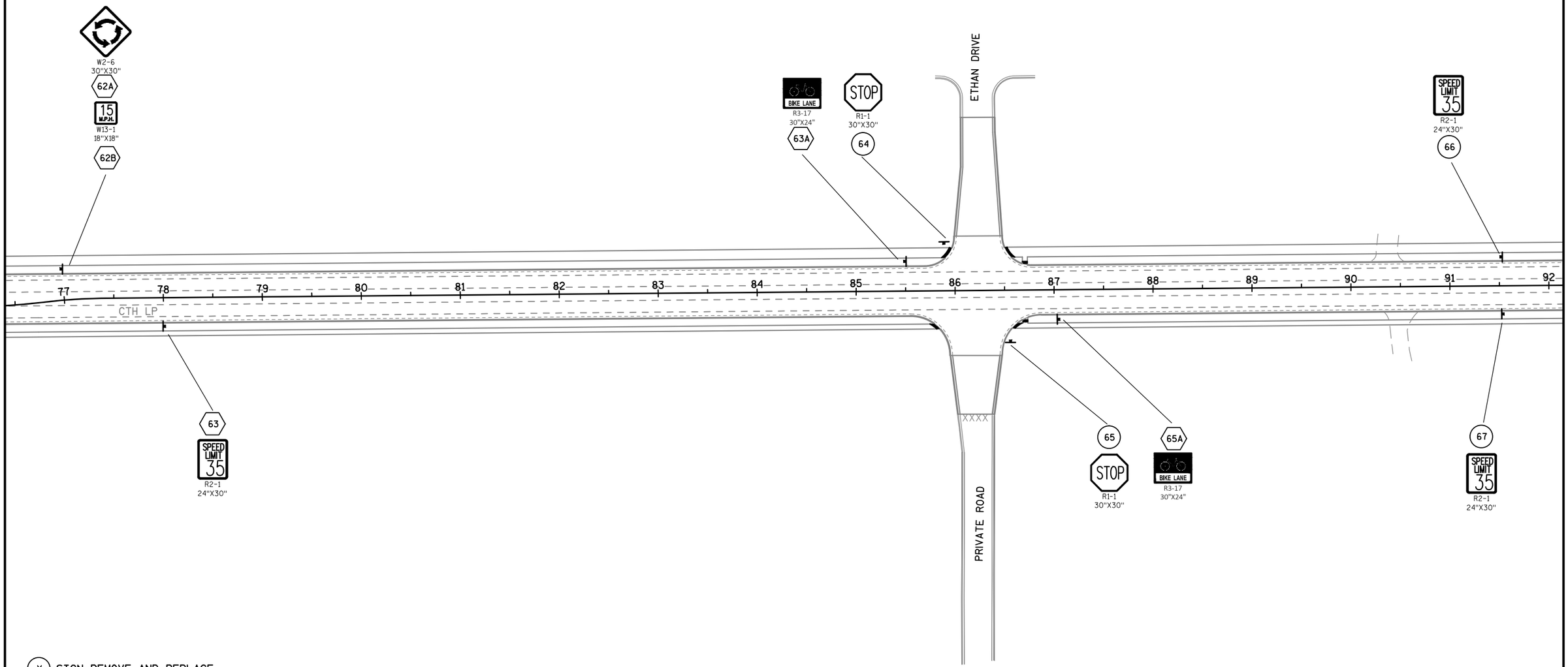
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PERMANENT SIGNING	SHEET 79	E

SIGNING NOTES

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[X] SIGN-REMOVE EXISTING

⟨X⟩ SIGN-PLACE NEW

△X SIGN-MOVE FOR CONSTRUCTION AND REINSTALL

SHEET 6 OF 7 TYPE II SIGNING

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PERMANENT SIGNING	SHEET 80	E

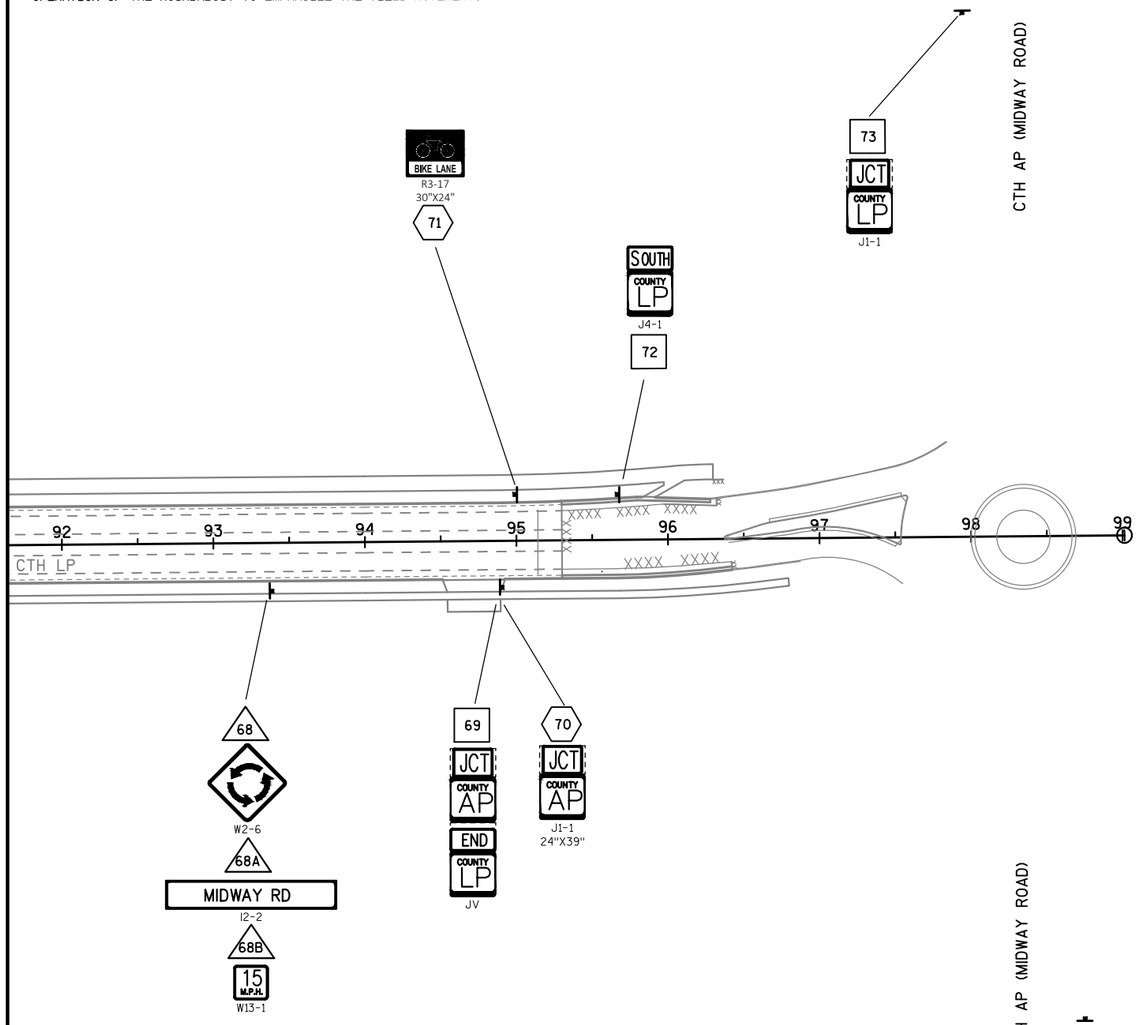
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X SIGN-REMOVE EXISTING

X SIGN-PLACE NEW

X SIGN-MOVE FOR CONSTRUCTION AND REINSTALL

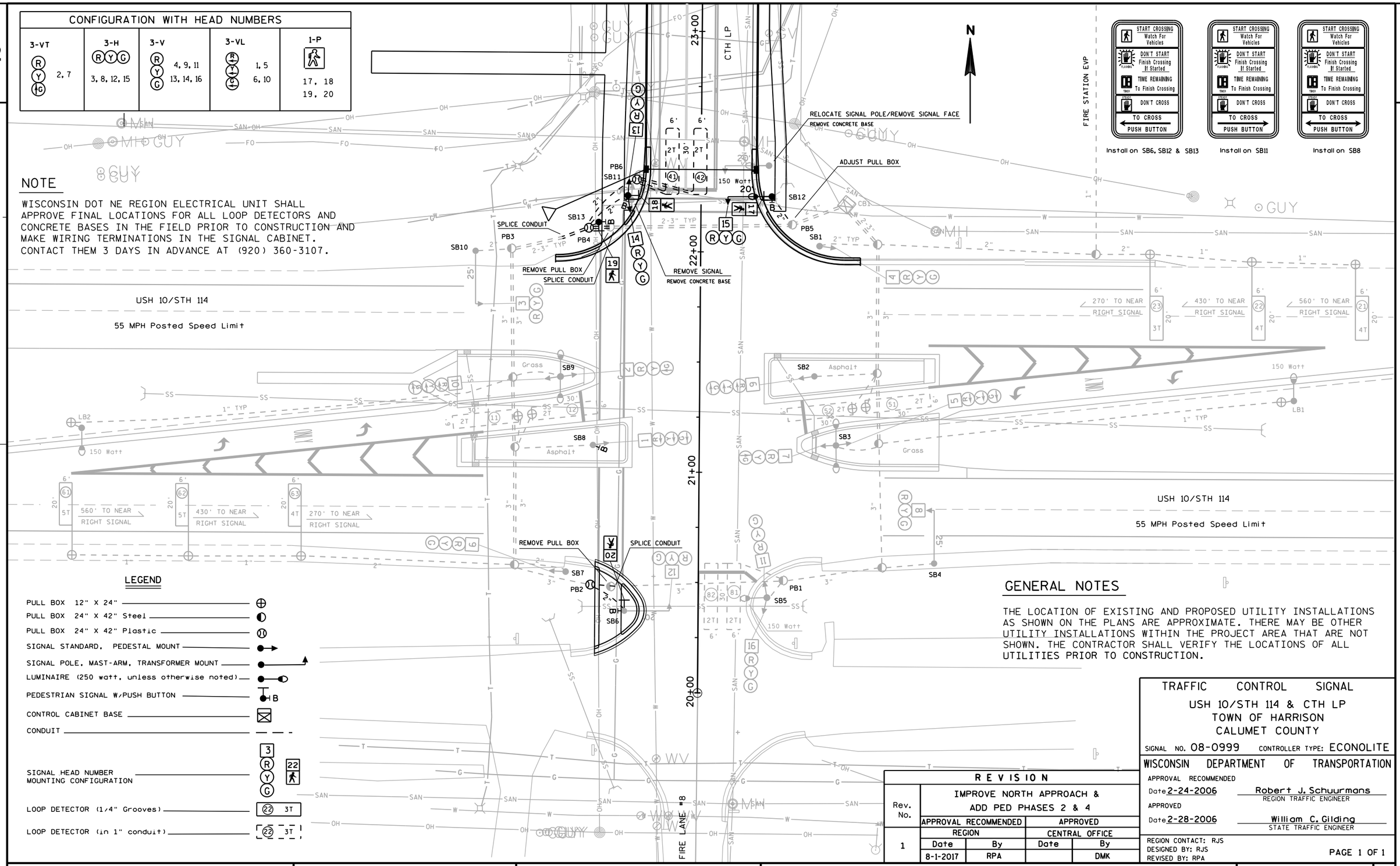
SHEET 7 OF 7 TYPE II SIGNING

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PERMANENT SIGNING	SHEET 81	E

CONFIGURATION WITH HEAD NUMBERS				
3-VT	3-H	3-V	3-VL	1-P
R Y HG — 2, 7	R Y G — 3, 8, 12, 15	R Y G — 4, 9, 11 13, 14, 16	R Y LG — 1, 5 6, 10	17, 18 19, 20

NOTE

WISCONSIN DOT NE REGION ELECTRICAL UNIT SHALL APPROVE FINAL LOCATIONS FOR ALL LOOP DETECTORS AND CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION AND MAKE WIRING TERMINATIONS IN THE SIGNAL CABINET. CONTACT THEM 3 DAYS IN ADVANCE AT (920) 360-3107.



LEGEND

- PULL BOX 12" X 24"
- PULL BOX 24" X 42" Steel
- PULL BOX 24" X 42" Plastic
- SIGNAL STANDARD, PEDESTAL MOUNT
- SIGNAL POLE, MAST-ARM, TRANSFORMER MOUNT
- LUMINAIRE (250 watt, unless otherwise noted)
- PEDESTRIAN SIGNAL W/PUSH BUTTON
- CONTROL CABINET BASE
- CONDUIT
- SIGNAL HEAD NUMBER MOUNTING CONFIGURATION
- LOOP DETECTOR (1/4" Grooves)
- LOOP DETECTOR (in 1" conduit)

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

REVISION				
Rev. No.	IMPROVE NORTH APPROACH & ADD PED PHASES 2 & 4			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
	Date	By	Date	By
1	8-1-2017	RPA		DMK

TRAFFIC CONTROL SIGNAL
USH 10/STH 114 & CTH LP
TOWN OF HARRISON
CALUMET COUNTY

SIGNAL NO. 08-0999 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 2-24-2006 Robert J. Schuurmans, REGION TRAFFIC ENGINEER

APPROVED
Date 2-28-2006 William C. Gilding, STATE TRAFFIC ENGINEER

REGION CONTACT: RJS
DESIGNED BY: RJS
REVISED BY: RPA

PAGE 1 OF 1

PROJECT NO: 4992-00-57	HWY: USH 10	COUNTY: CALUMET	CONSTRUCTION DETAIL - TRAFFIC SIGNAL REVISION S08-0999	SHEET 82 E

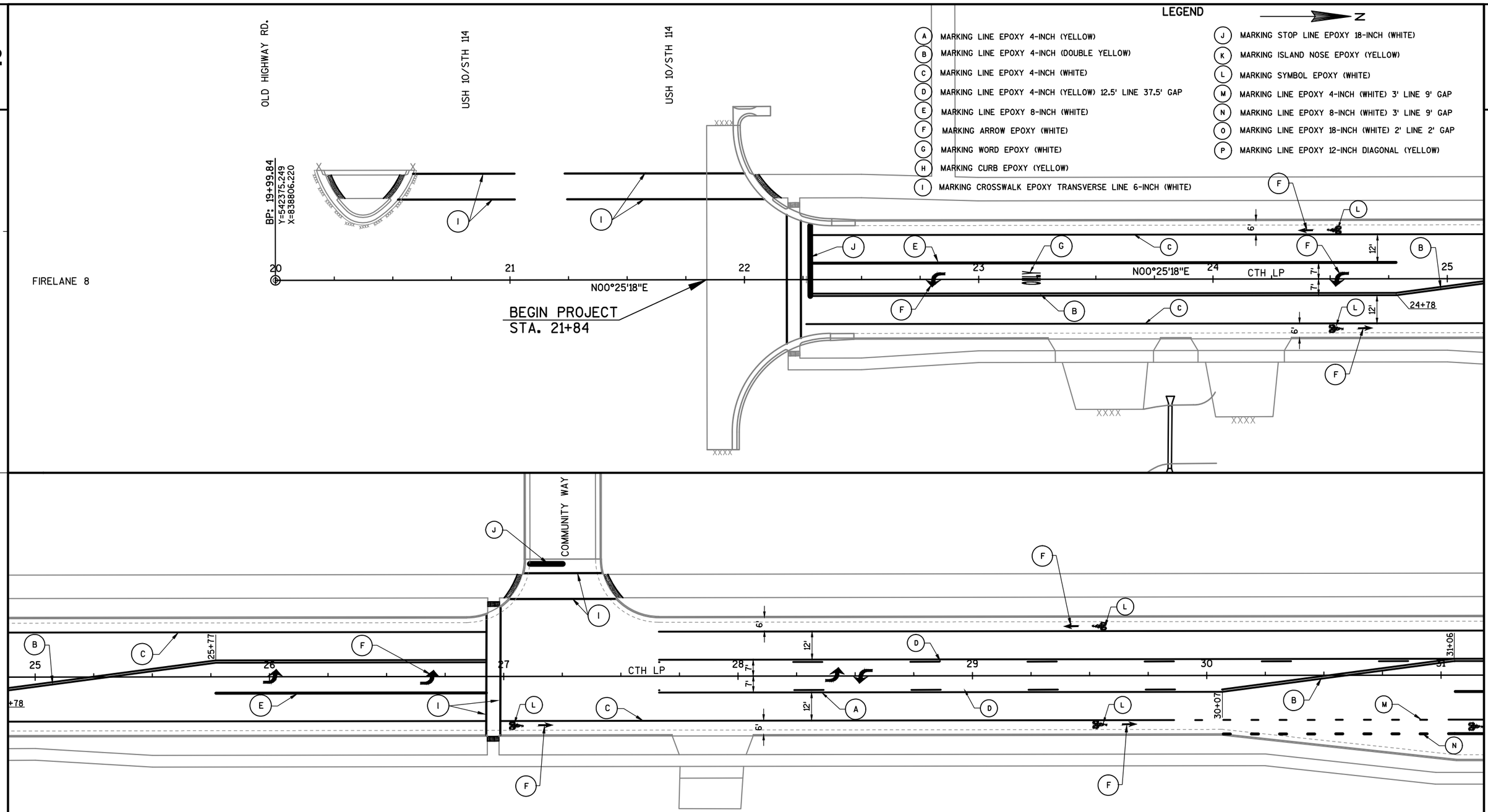
FILE NAME : F:\d3_traffi\S-999,rev1,const.dgn PLOT DATE : 18-JAN-2018 12:42 PLOT BY : dotc5s PLOT NAME : S-999,rev1,const PLOT SCALE : 40:1

2

LEGEND

N

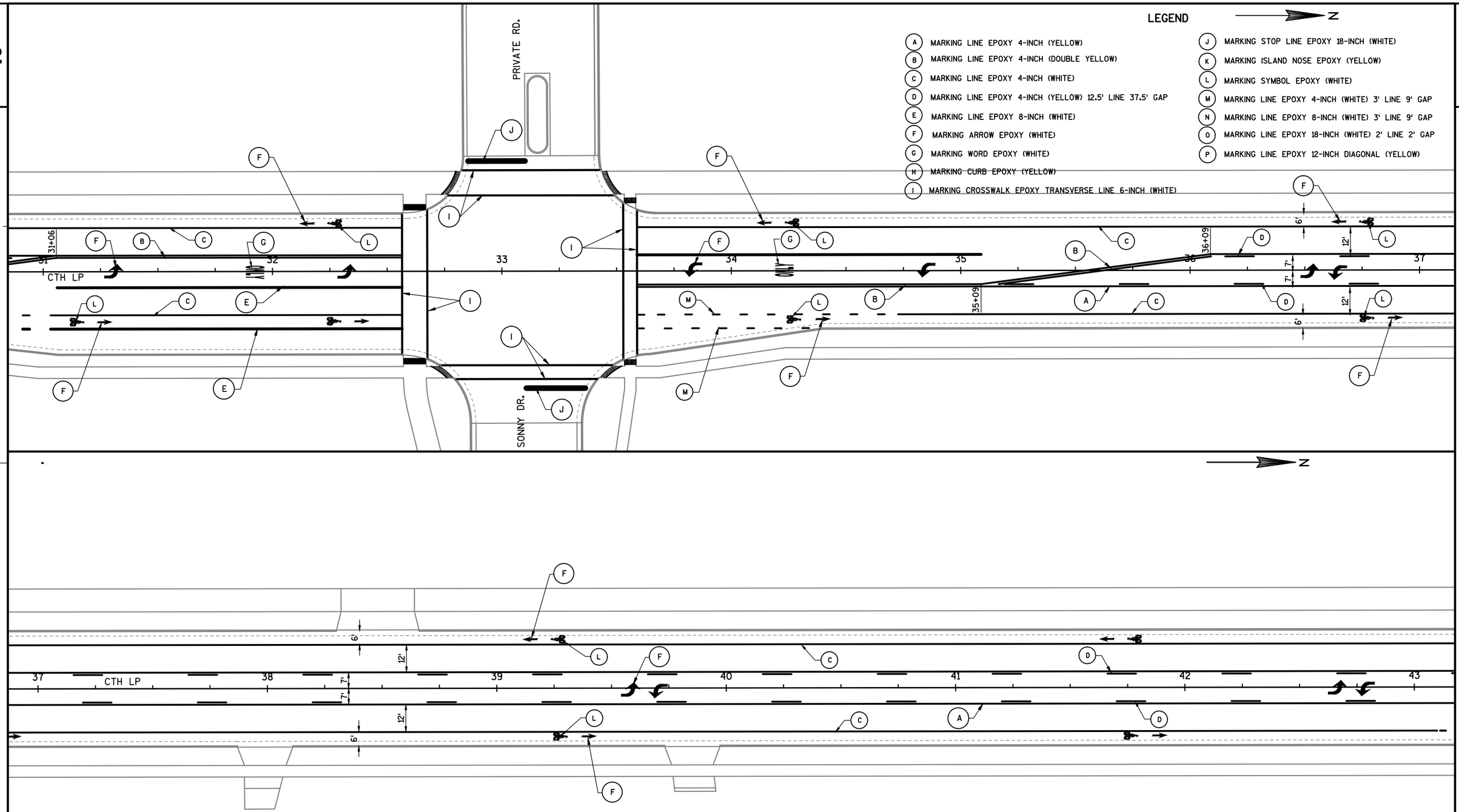
- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING SYMBOL EPOXY (WHITE)
- (M) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE 9' GAP
- (N) MARKING LINE EPOXY 8-INCH (WHITE) 3' LINE 9' GAP
- (O) MARKING LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP
- (P) MARKING LINE EPOXY 12-INCH DIAGONAL (YELLOW)



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PAVEMENT MARKING	SHEET	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\024501 PM.DWG
LAYOUT NAME - 024501 PM

PLOT DATE : 3/29/2018 2:46 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PAVEMENT MARKING	SHEET	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\024502 PM.DWG
LAYOUT NAME - 024502 PM

PLOT DATE : 3/29/2018 2:46 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : Custom

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
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- (O) MARKING LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP
- (P) MARKING LINE EPOXY 12-INCH DIAGONAL (YELLOW)
- (R) MARKING PARKING STALL PAINT

N

VILLA WAY

WOODLAND RD.

43 44 45 46 47 48 49

43+23 44+23 48+28

6' 12' 7'

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PAVEMENT MARKING	SHEET E

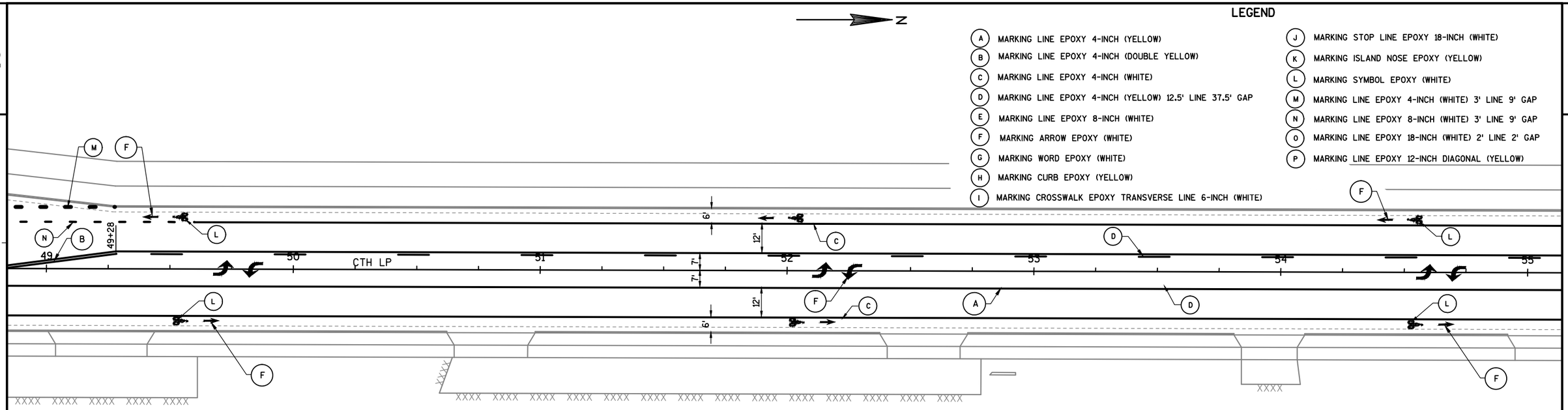
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LAYOUT NAME - 024503 PM

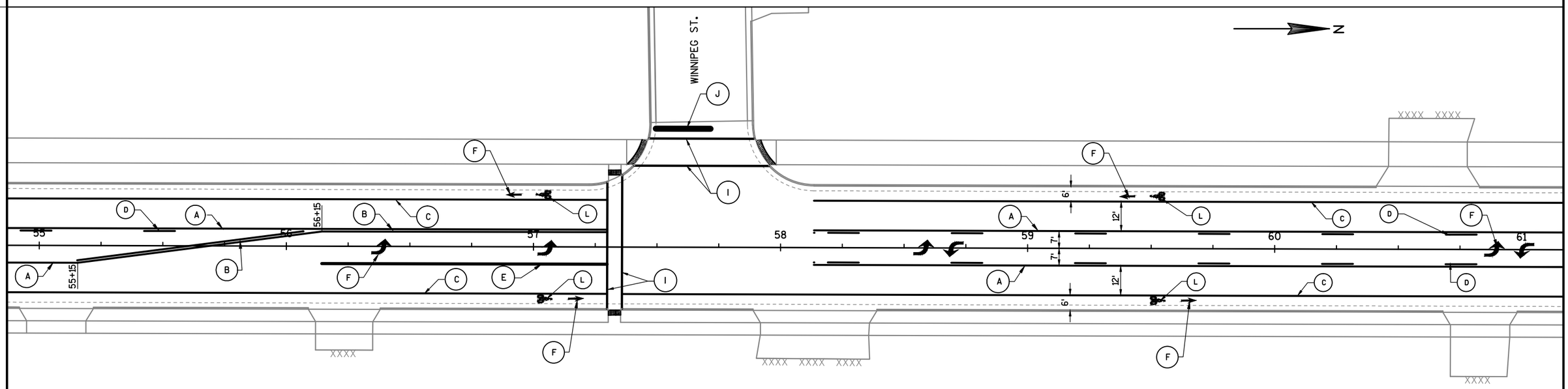
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WISDOT/CADDS SHEET 42

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PAVEMENT MARKING	SHEET	E

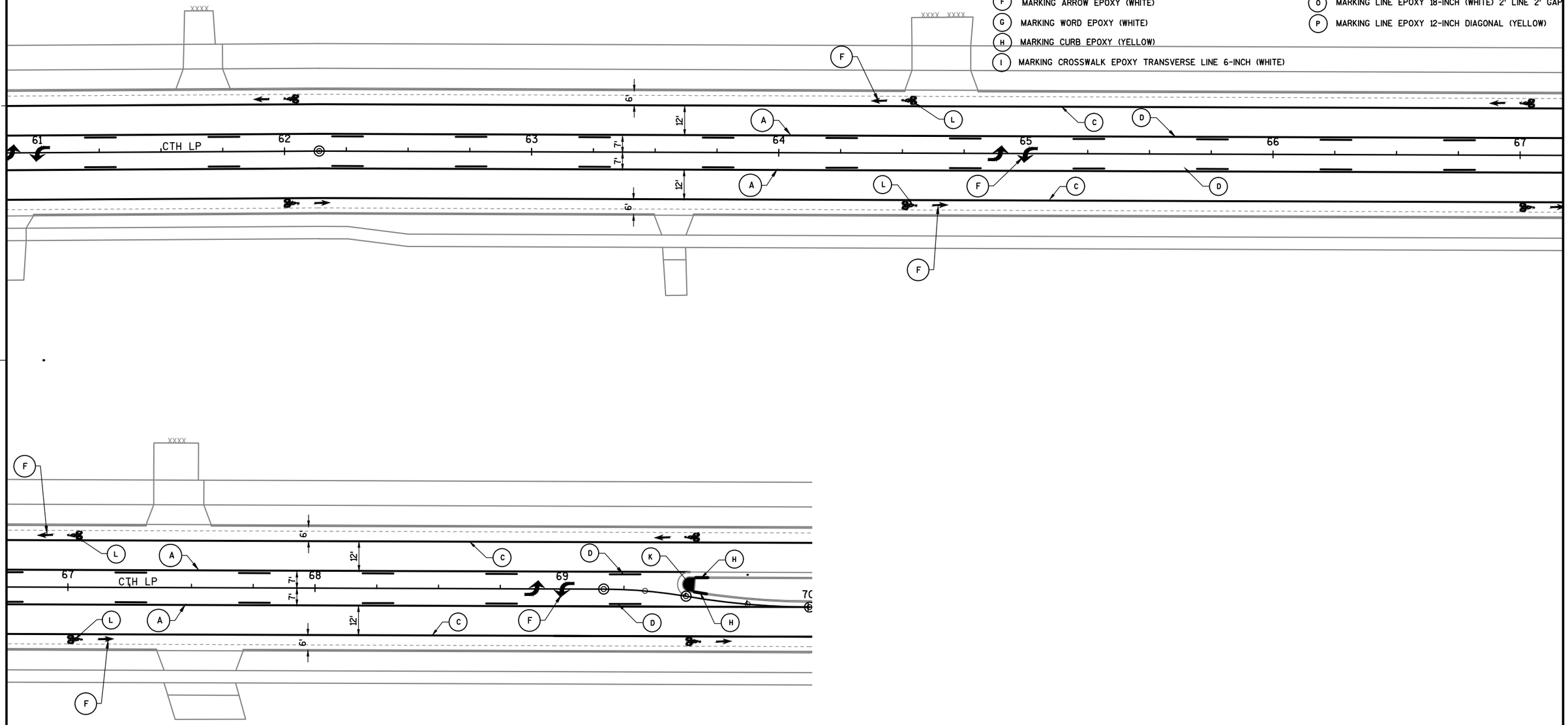
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LAYOUT NAME - 024504 PM

PLOT DATE : 6/28/2018 7:29 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

N

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
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2

N

LEGEND

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- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING SYMBOL EPOXY (WHITE)
- (M) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE 9' GAP
- (N) MARKING LINE EPOXY 8-INCH (WHITE) 3' LINE 9' GAP
- (O) MARKING LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP
- (P) MARKING LINE EPOXY 12-INCH DIAGONAL (YELLOW)
- (R) MARKING PARKING STALL PAINT

MATCH LINE

MANITOWOC RD.

499

501

CTH LP

70 71 72 74 75 76

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PAVEMENT MARKING	SHEET	E

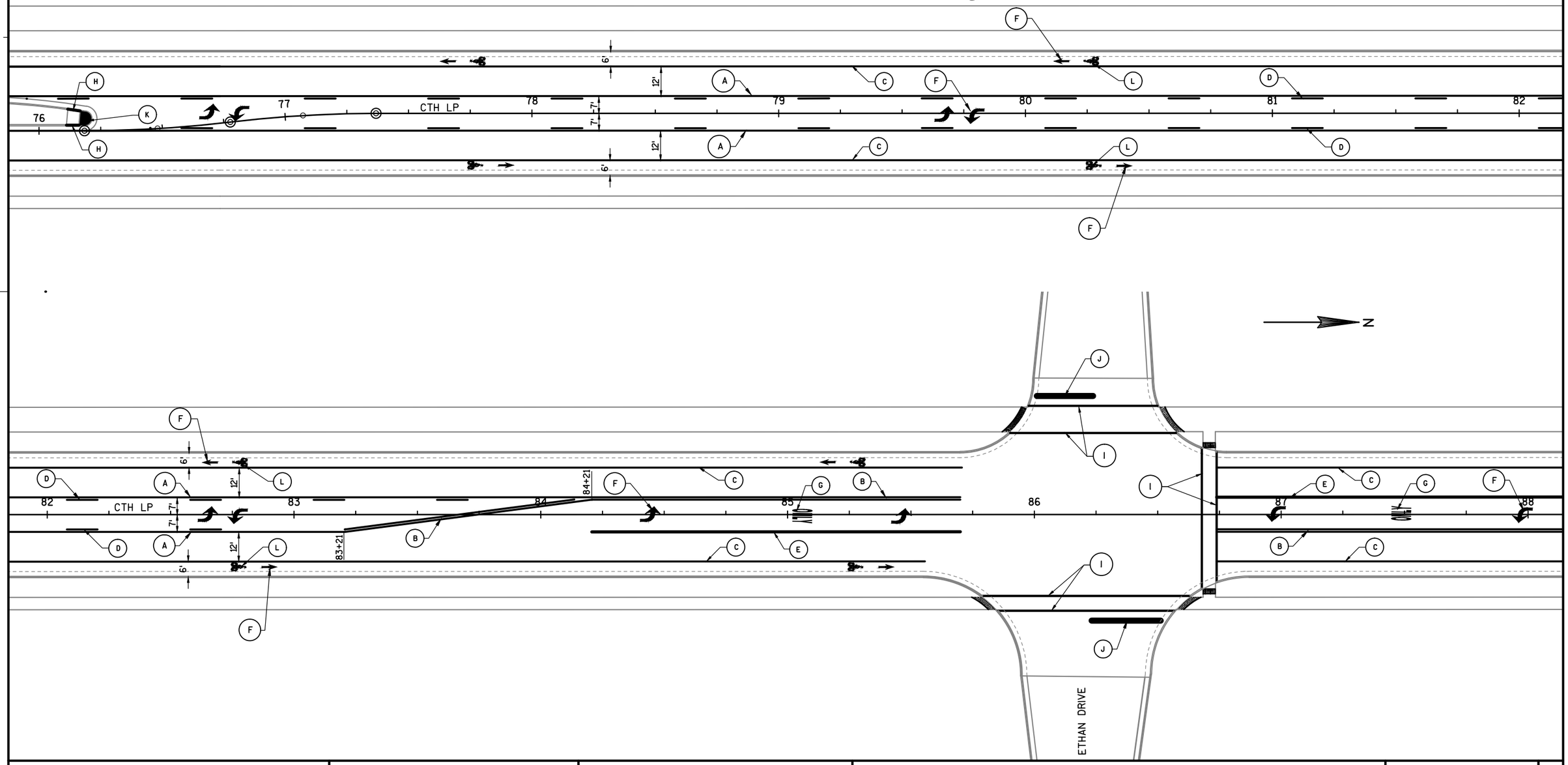
FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\024506 PM.DWG
LAYOUT NAME - 024506 PM

PLOT DATE : 3/29/2018 2:48 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

N

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORDS EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING LINE CROSSWALK EPOXY 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING SYMBOL EPOXY (WHITE)
- (M) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE 9' GAP
- (N) MARKING LINE EPOXY 8-INCH (WHITE) 3' LINE 9' GAP
- (O) MARKING LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP
- (P) MARKING LINE EPOXY 12-INCH DIAGONAL (YELLOW)



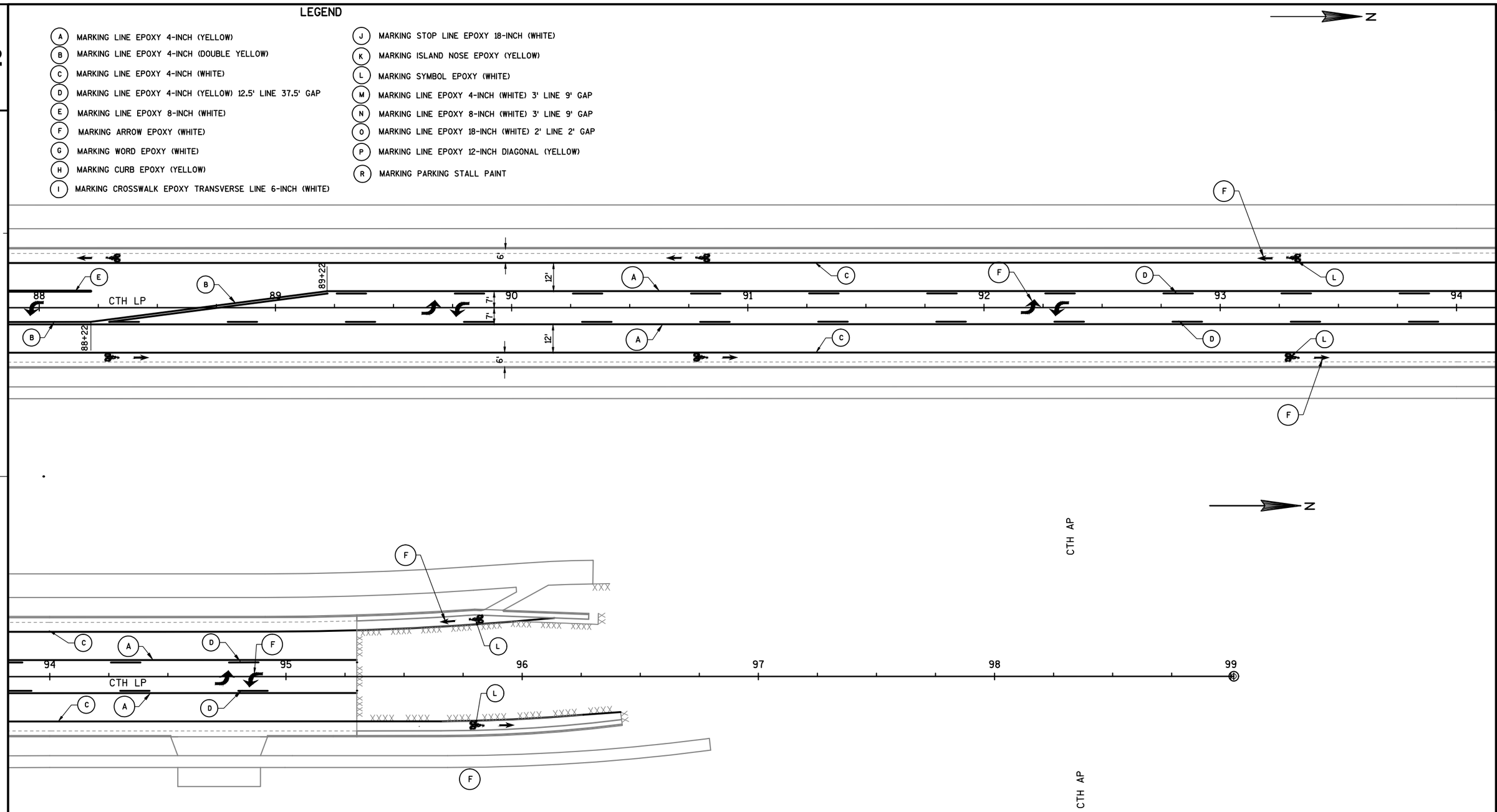
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PAVEMENT MARKING	SHEET E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\024507 PM.DWG
LAYOUT NAME - 024507 PM

PLOT DATE : 3/29/2018 2:48 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING SYMBOL EPOXY (WHITE)
- (M) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE 9' GAP
- (N) MARKING LINE EPOXY 8-INCH (WHITE) 3' LINE 9' GAP
- (O) MARKING LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP
- (P) MARKING LINE EPOXY 12-INCH DIAGONAL (YELLOW)
- (R) MARKING PARKING STALL PAINT

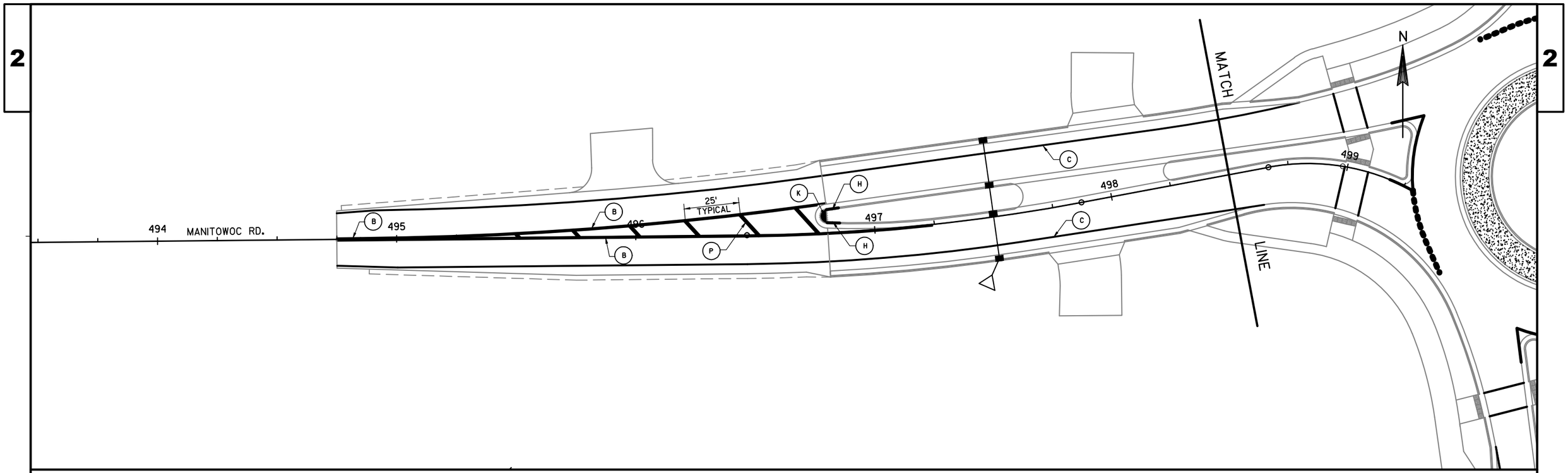


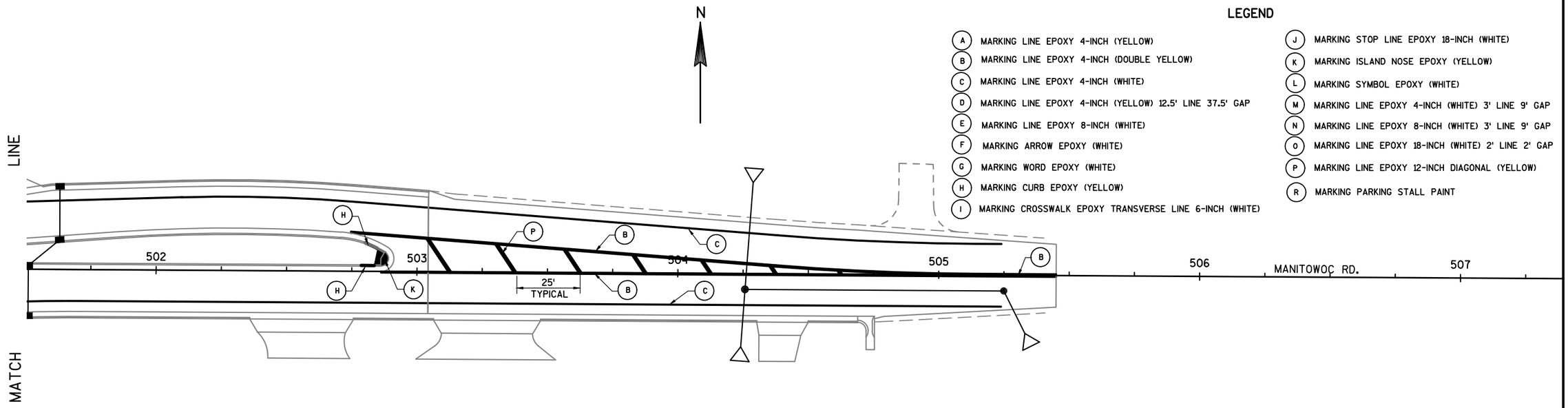
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PAVEMENT MARKING	SHEET 90	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\024508 PM.DWG
LAYOUT NAME - 024508 PM

PLOT DATE : 3/29/2018 2:48 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING SYMBOL EPOXY (WHITE)
- (M) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE 9' GAP
- (N) MARKING LINE EPOXY 8-INCH (WHITE) 3' LINE 9' GAP
- (O) MARKING LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP
- (P) MARKING LINE EPOXY 12-INCH DIAGONAL (YELLOW)
- (R) MARKING PARKING STALL PAINT

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PAVEMENT MARKING	SHEET 91	E

2

2

LEGEND

TYPE III BARRICADE WITH TYPE A WARNING LIGHT (FLASHING)

TYPE III BARRICADE WTH ATTACHED SIGN AND TYPE A WARNING LIGHT (FLASHING(

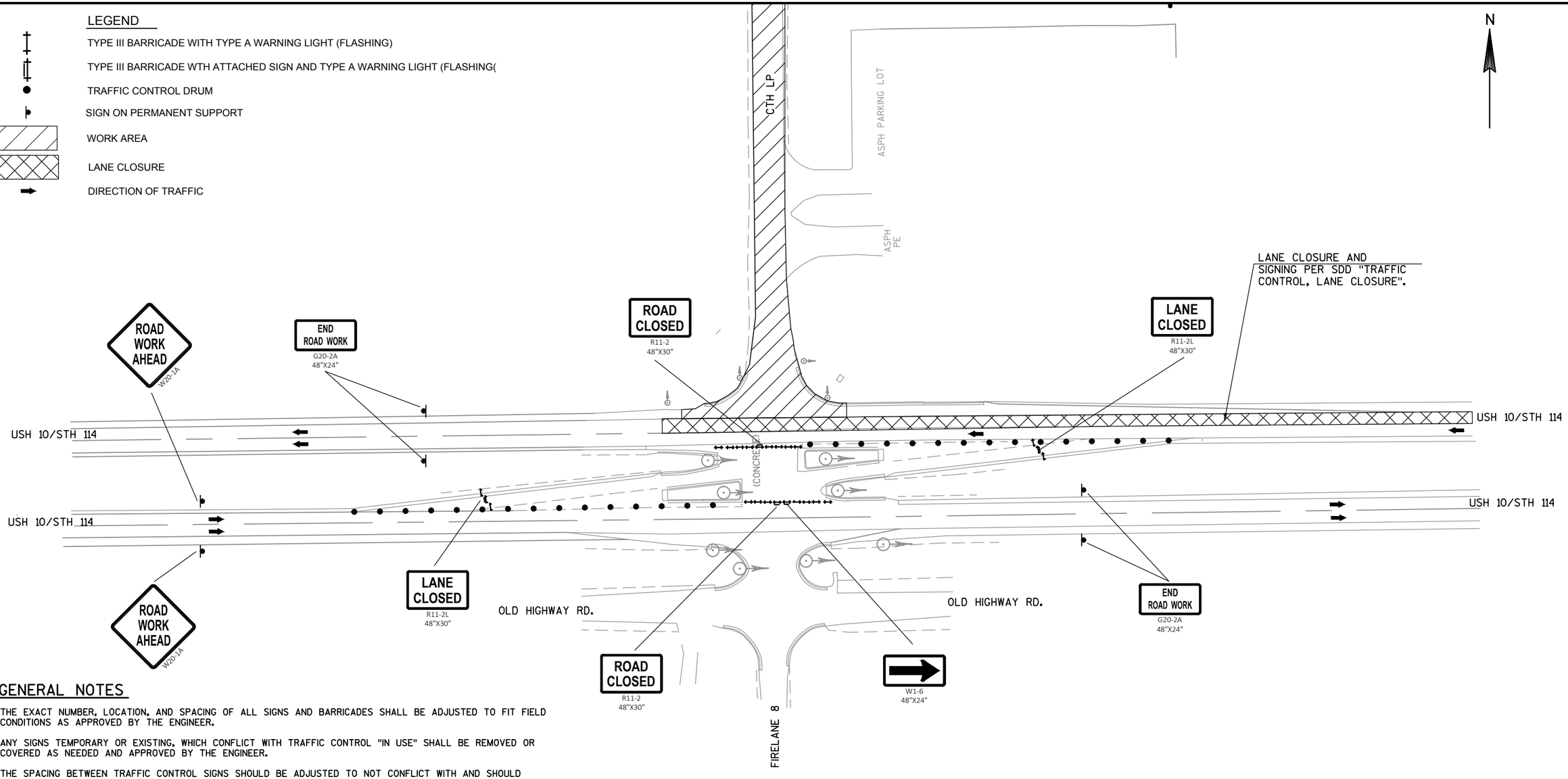
TRAFFIC CONTROL DRUM

SIGN ON PERMANENT SUPPORT

WORK AREA

LANE CLOSURE

DIRECTION OF TRAFFIC



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 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 SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

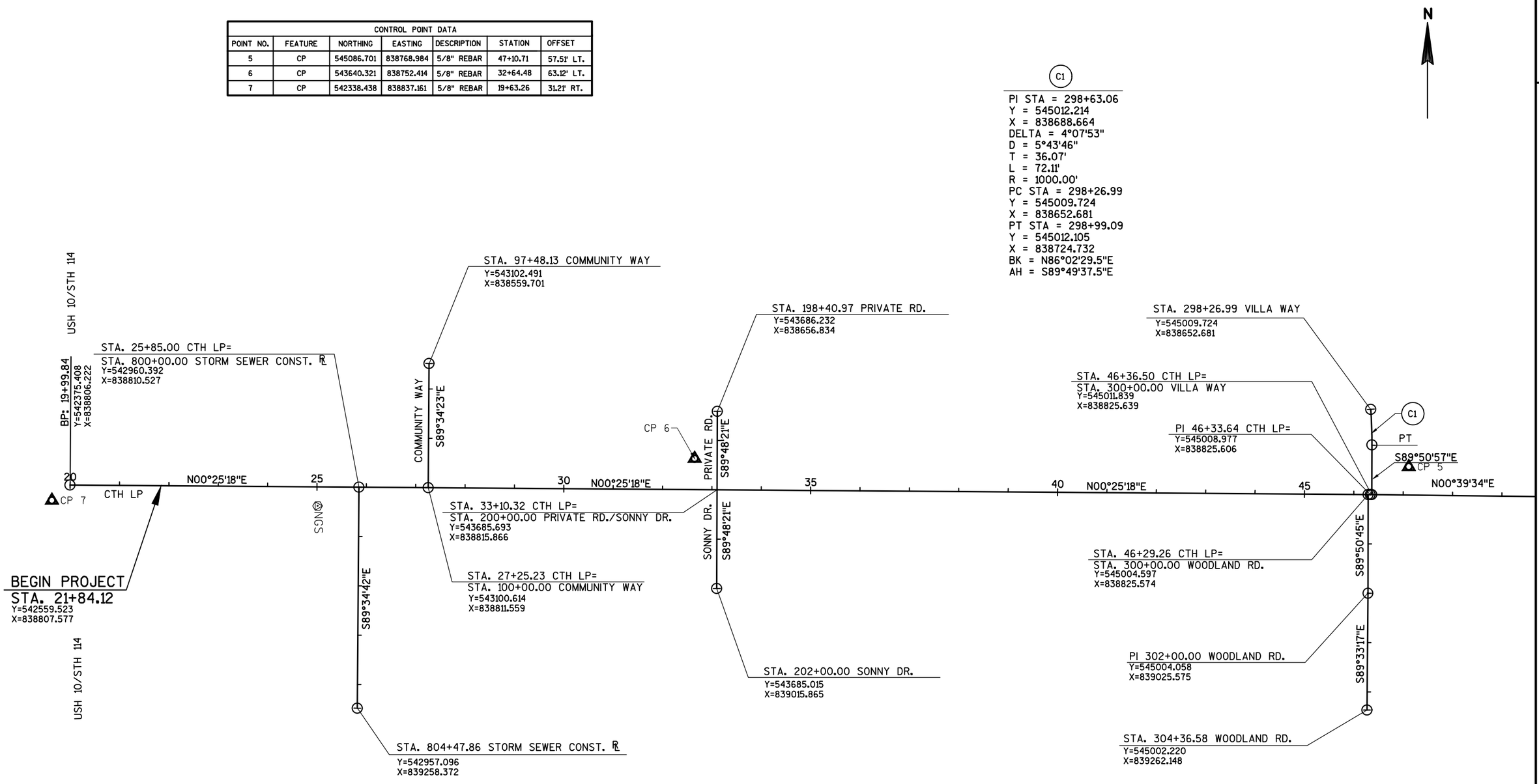
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	TRAFFIC CONTROL-STAGE 1	SHEET 92	E

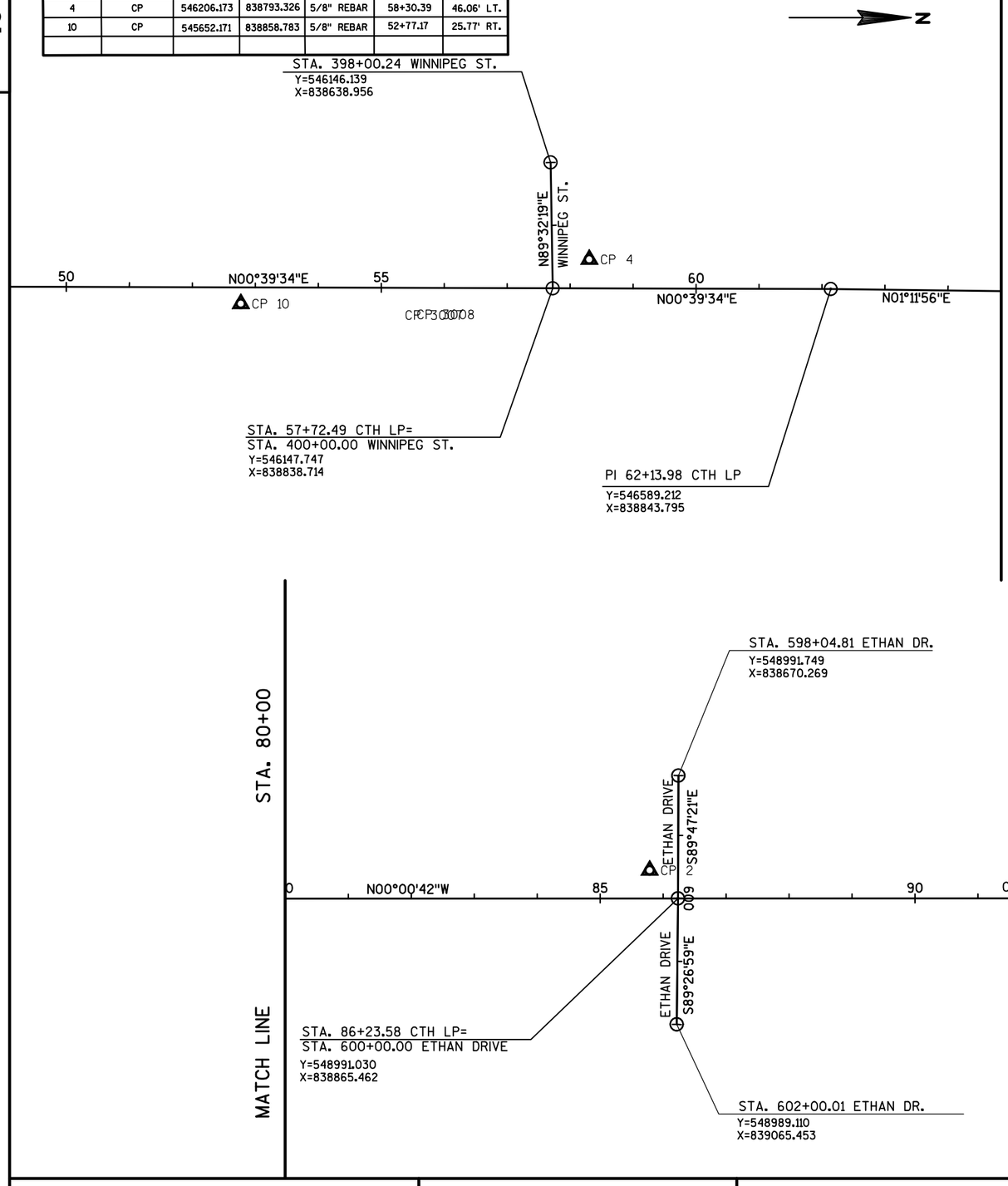
CONTROL POINT DATA						
POINT NO.	FEATURE	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
5	CP	545086.701	838768.984	5/8" REBAR	47+10.71	57.51' LT.
6	CP	543640.321	838752.414	5/8" REBAR	32+64.48	63.12' LT.
7	CP	542338.438	838837.161	5/8" REBAR	19+63.26	31.21' RT.

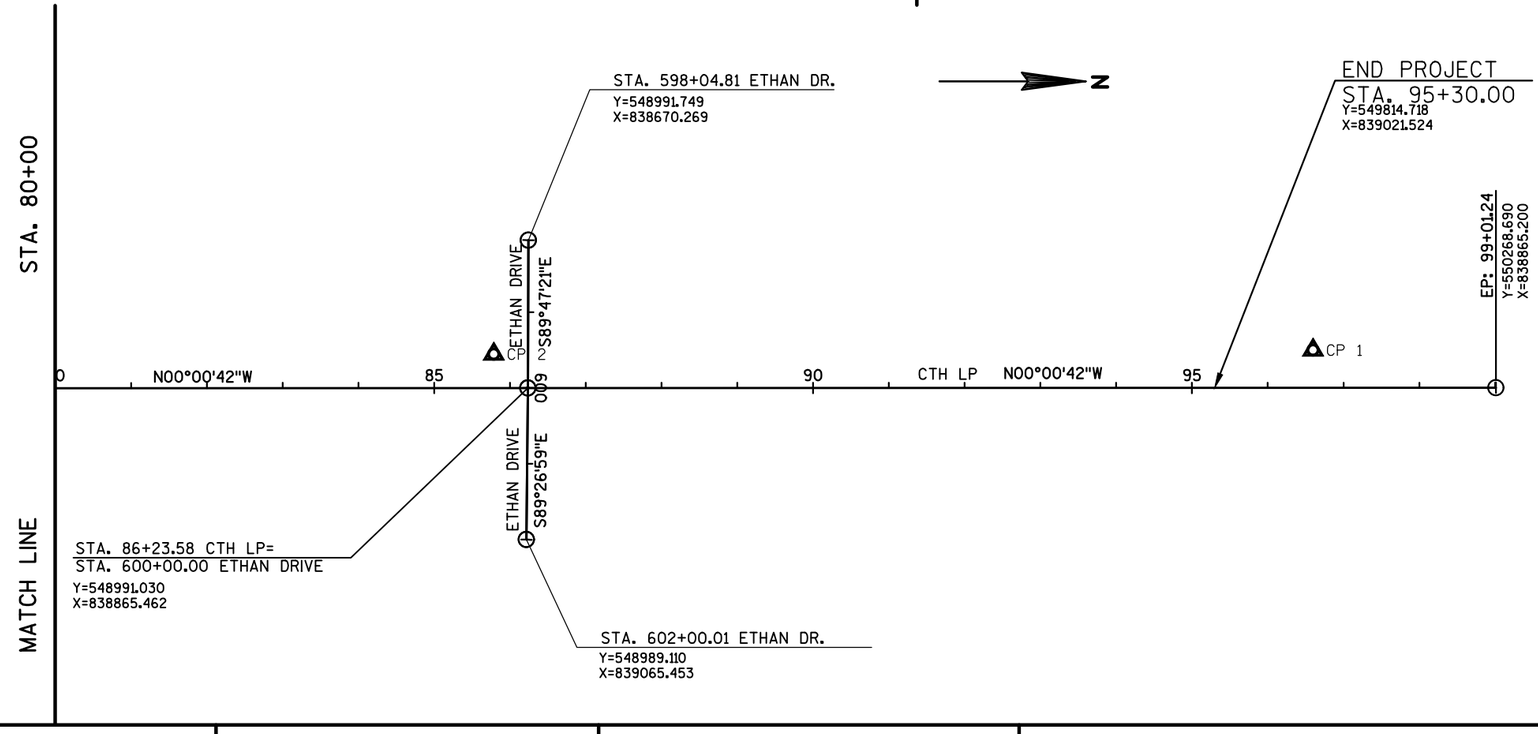


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	ALIGNMENT DIAGRAM	SHEET 93	E

2

CONTROL POINT DATA						
POINT NO.	FEATURE	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
4	CP	546206.173	838793.326	5/8" REBAR	58+30.39	46.06' LT.
10	CP	545652.171	838858.783	5/8" REBAR	52+77.17	25.77' RT.





CONTROL POINT DATA						
POINT NO.	FEATURE	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
2	CP	550028.417	838815.476	5/8" REBAR	85+78.58	44.66' LT.
1	CP	548947.259	838820.812	5/8" REBAR	96+59.74	49.77' LT.

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	ALIGNMENT DIAGRAM	SHEET 94	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\027202 AD.DWG
LAYOUT NAME - 027202 AD
PLOT DATE : 4/26/2018 9:21 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:200 FT

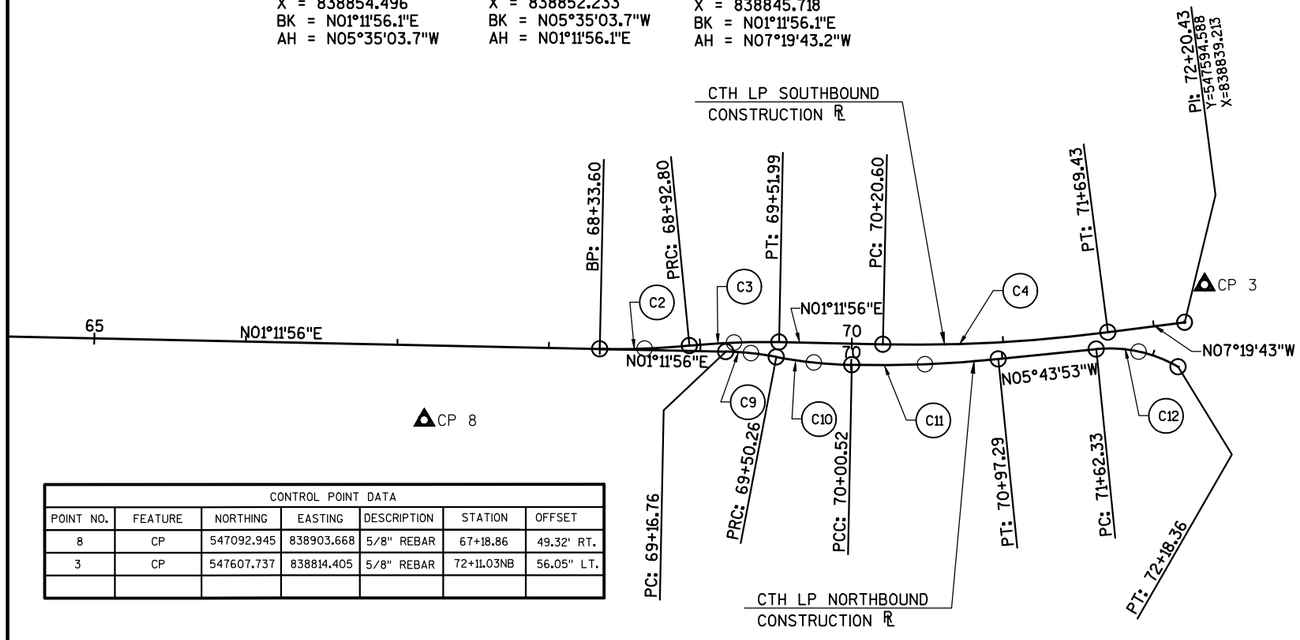
2

CTH LP SOUTHBOUND CONSTRUCTION ℄

C2
PI STA = 68+63.23
Y = 547238.322
X = 838857.380
DELTA = 6°47'00"
D = 11°27'33"
T = 29.63'
L = 59.20'
R = 500.00'
PC STA = 68+33.60
Y = 547208.696
X = 838856.760
PT STA = 68+92.80
Y = 547267.814
X = 838854.496
BK = N01°11'56.1"E
AH = N05°35'03.7"W

C3
PI STA = 69+22.43
Y = 547297.305
X = 838851.613
DELTA = 6°47'00"
D = 11°27'33"
T = 29.63'
L = 59.20'
R = 500.00'
PC STA = 68+92.80
Y = 547267.814
X = 838854.496
PT STA = 69+51.99
Y = 547326.931
X = 838852.233
BK = N05°35'03.7"W
AH = N01°11'56.1"E

C4
PI STA = 70+95.15
Y = 547470.062
X = 838855.228
DELTA = 8°31'39"
D = 5°43'46"
T = 74.55'
L = 148.83'
R = 1000.00'
PC STA = 70+20.60
Y = 547395.523
X = 838853.668
PT STA = 71+69.43
Y = 547544.008
X = 838845.718
BK = N01°11'56.1"E
AH = N07°19'43.2"W



CONTROL POINT DATA						
POINT NO.	FEATURE	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
8	CP	547092.945	838903.668	5/8" REBAR	67+18.86	49.32' RT.
3	CP	547607.737	838814.405	5/8" REBAR	72+11.03NB	56.05" LT.

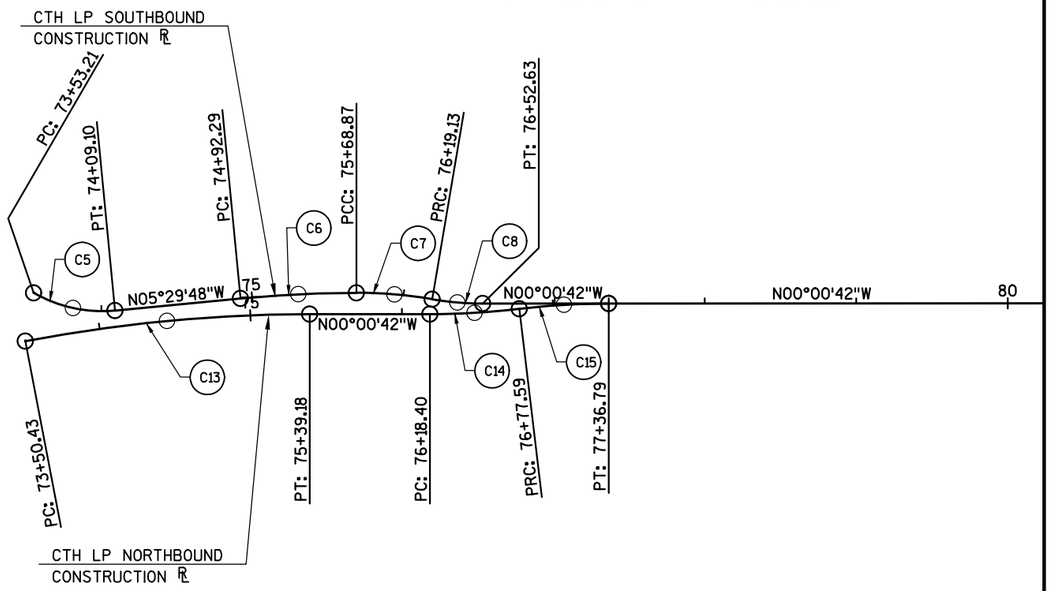
CTH LP SOUTHBOUND CONSTRUCTION ℄

C5
PI STA = 73+82.09
Y = 547750.930
X = 838873.091
DELTA = 35°34'51"
D = 63°39'43"
T = 28.88'
L = 55.89'
R = 90.00'
PC STA = 73+53.21
Y = 547725.941
X = 838858.614
PT STA = 74+09.10
Y = 547779.677
X = 838870.324
BK = N30°05'03.7"E
AH = N05°29'47.6"W

C6
PI STA = 75+30.61
Y = 547900.626
X = 838858.686
DELTA = 5°29'05"
D = 7°09'43"
T = 38.32'
L = 76.58'
R = 800.00'
PC STA = 74+92.29
Y = 547862.482
X = 838862.356
PT STA = 75+68.87
Y = 547938.946
X = 838858.678
BK = N05°29'47.6"W
AH = N00°00'42.4"W

C7
PI STA = 75+94.06
Y = 547964.135
X = 838858.673
DELTA = 9°35'55"
D = 19°05'55"
T = 25.19'
L = 50.26'
R = 300.00'
PC STA = 75+68.87
Y = 547938.946
X = 838862.868
PT STA = 76+19.13
Y = 547988.971
X = 838858.678
BK = N00°00'42.4"W
AH = N09°35'12.8"E

C8
PI STA = 76+35.92
Y = 548005.529
X = 838865.664
DELTA = 9°35'55"
D = 28°38'52"
T = 16.79'
L = 33.51'
R = 200.00'
PC STA = 76+19.13
Y = 547988.971
X = 838862.868
PT STA = 76+52.63
Y = 548022.321
X = 838865.661
BK = N09°35'12.8"E
AH = N00°00'42.3"W



CTH LP NORTHBOUND CONSTRUCTION ℄

C9
PI STA = 69+33.55
Y = 547308.623
X = 838858.851
DELTA = 9°35'55"
D = 28°38'52"
T = 16.79'
L = 33.51'
R = 200.00'
PC STA = 69+16.76
Y = 547291.835
X = 838858.500
PT STA = 69+50.26
Y = 547325.118
X = 838861.997
BK = N01°11'56.1"E
AH = N10°47'51.2"E

C10
PI STA = 69+75.45
Y = 547349.860
X = 838866.716
DELTA = 9°35'55"
D = 19°05'55"
T = 25.19'
L = 50.26'
R = 300.00'
PC STA = 69+50.26
Y = 547325.118
X = 838861.997
PT STA = 70+00.52
Y = 547375.043
X = 838867.243
BK = N10°47'51.2"E
AH = N01°11'56.1"E

C11
PI STA = 70+48.96
Y = 547423.474
X = 838868.256
DELTA = 6°55'49"
D = 7°09'43"
T = 48.44'
L = 96.77'
R = 800.00'
PC STA = 70+00.52
Y = 547375.043
X = 838867.243
PT STA = 70+97.29
Y = 547471.674
X = 838863.419
BK = N01°11'56.1"E
AH = N05°43'53.1"W

C12
PI STA = 71+91.29
Y = 547565.205
X = 838854.031
DELTA = 35°40'34"
D = 63°39'43"
T = 28.96'
L = 56.04'
R = 90.00'
PC STA = 71+62.33
Y = 547536.388
X = 838856.924
PT STA = 72+18.36
Y = 547590.300
X = 838868.488
BK = N05°43'53.1"W
AH = N29°56'40.8"E

CTH LP NORTHBOUND CONSTRUCTION ℄

C13
PI STA = 74+45.09
Y = 547813.492
X = 838872.704
DELTA = 10°48'54"
D = 5°43'46"
T = 94.66'
L = 188.76'
R = 1000.00'
PC STA = 73+50.43
Y = 547720.518
X = 838890.484
PT STA = 75+39.18
Y = 547908.152
X = 838872.684
BK = N10°49'36.2"W
AH = N00°00'42.3"W

C14
PI STA = 76+48.03
Y = 548016.997
X = 838872.662
DELTA = 6°47'00"
D = 11°27'33"
T = 29.63'
L = 59.20'
R = 500.00'
PC STA = 76+18.40
Y = 547987.364
X = 838872.668
PT STA = 76+77.59
Y = 548046.421
X = 838869.156
BK = N00°00'42.3"W
AH = N06°47'42.1"W

C15
PI STA = 77+07.22
Y = 548075.845
X = 838865.650
DELTA = 6°47'00"
D = 11°27'33"
T = 29.63'
L = 59.20'
R = 500.00'
PC STA = 76+77.59
Y = 548046.421
X = 838869.156
PT STA = 77+36.79
Y = 548105.478
X = 838865.644
BK = N06°47'42.1"W
AH = N00°00'42.1"W

ROUNDABOUT SW EDGE OF PAVEMENT CONSTRUCTION ℄

C24	C25	C26	C27	C28
PI STA = 704+62.25	PI STA = 704+03.59	PI STA = 703+55.86	PI STA = 703+33.65	PI STA = 703+04.40
Y = 547422.934	Y = 547481.614	Y = 547529.044	Y = 547551.100	Y = 547579.819
X = 838838.239	X = 838836.236	X = 838831.567	X = 838829.279	X = 838823.039
DELTA = 3°09'11"	DELTA = 6°04'34"	DELTA = 3°04'33"	DELTA = 1°09'53"	DELTA = 10°38'40"
D = 5°49'22"	D = 9°36'48"	D = 9°32'57"	D = 9°32'57"	D = 22°55'06"
T = 27.08'	T = 31.63'	T = 16.11'	T = 6.10'	T = 23.29'
L = 54.15'	L = 63.21'	L = 32.21'	L = 12.20'	L = 46.45'
R = 984.00'	R = 596.00'	R = 600.00'	R = 600.00'	R = 250.00'
PC STA = 704+35.17	PC STA = 703+71.96	PC STA = 703+39.75	PC STA = 703+27.55	PC STA = 702+81.11
Y = 547450.000	Y = 547512.936	Y = 547545.114	Y = 547557.060	Y = 547601.273
X = 838837.315	X = 838831.817	X = 838830.452	X = 838827.984	X = 838813.976
PT STA = 704+89.32	PT STA = 704+35.17	PT STA = 703+71.96	PT STA = 703+39.75	PT STA = 703+27.55
Y = 547395.858	Y = 547450.000	Y = 547512.936	Y = 547545.114	Y = 547557.060
X = 838837.672	X = 838837.315	X = 838831.817	X = 838830.452	X = 838827.984
BK = S01°57'14.7"E	BK = S08°01'49.0"E	BK = S03°58'03.4"E	BK = S12°15'26.8"E	BK = S22°54'07.1"E
AH = S01°11'56.1"W	AH = S01°57'14.7"E	AH = S00°53'30.1"E	AH = S11°05'33.4"E	AH = S12°15'26.8"E

C29	C30
PI STA = 702+38.83	PI STA = 700+39.48
Y = 547662.295	Y = 547620.796
X = 838788.196	X = 838593.542
DELTA = 82°54'21"	DELTA = 5°32'21"
D = 76°23'40"	D = 7°01'18"
T = 66.24'	T = 39.48'
L = 108.52'	L = 78.89'
R = 75.00'	R = 816.00'
PC STA = 701+72.58	PC STA = 700+00.00
Y = 547644.250	Y = 547618.632
X = 838724.457	X = 838554.126
PT STA = 702+81.11	PT STA = 700+78.89
Y = 547601.273	Y = 547626.756
X = 838813.976	X = 838632.565
BK = N74°11'31.7"E	BK = N86°51'23.1"E
AH = S22°54'07.1"E	AH = N81°19'01.7"E

ROUNDABOUT NW EDGE OF PAVEMENT CONSTRUCTION ℄

C31	C32	C33	C34
PI STA = 901+55.99	PI STA = 901+85.98	PI STA = 902+13.62	PI STA = 902+48.11
Y = 547683.683	Y = 547687.185	Y = 547691.721	Y = 547701.120
X = 838702.549	X = 838732.283	X = 838759.501	X = 838792.683
DELTA = 2°40'11"	DELTA = 3°04'33"	DELTA = 2°12'11"	DELTA = 10°29'27"
D = 9°36'48"	D = 9°32'57"	D = 9°32'57"	D = 22°55'06"
T = 13.89'	T = 16.11'	T = 11.54'	T = 22.95'
L = 27.77'	L = 32.21'	L = 23.07'	L = 45.78'
R = 596.00'	R = 600.00'	R = 600.00'	R = 250.00'
PC STA = 901+42.10	PC STA = 901+69.87	PC STA = 902+02.09	PC STA = 902+25.16
Y = 547681.779	Y = 547686.226	Y = 547689.005	Y = 547694.865
X = 838688.793	X = 838716.202	X = 838748.289	X = 838770.600
PT STA = 901+69.87	PT STA = 902+02.09	PT STA = 902+25.16	PT STA = 902+70.93
Y = 547686.226	Y = 547689.005	Y = 547694.865	Y = 547711.292
X = 838716.202	X = 838748.289	X = 838770.600	X = 838813.258
BK = N82°07'07.6"E	BK = N86°35'15.8"E	BK = N76°23'12.5"E	BK = N74°11'01.8"E
AH = N79°26'56.9"E	AH = N83°30'42.5"E	AH = N74°11'01.8"E	AH = N63°41'34.4"E

C35	C36
PI STA = 903+27.87	PI STA = 904+89.94
Y = 547736.528	Y = 547913.413
X = 838864.303	X = 838842.683
DELTA = 74°24'49"	DELTA = 3°35'03"
D = 76°23'40"	D = 7°01'18"
T = 56.94'	T = 25.53'
L = 97.41'	L = 51.04'
R = 75.00'	R = 816.00'
PC STA = 902+70.93	PC STA = 904+64.41
Y = 547711.292	Y = 547887.933
X = 838813.258	X = 838844.284
PT STA = 903+68.34	PT STA = 905+15.45
Y = 547792.476	Y = 547938.943
X = 838853.710	X = 838842.678
BK = N63°41'34.4"E	BK = N03°35'44.9"W
AH = N10°43'14.9"W	AH = N00°00'42.4"W

ROUNDABOUT SE EDGE OF PAVEMENT CONSTRUCTION ℄

C37	C38	C39	C40	C41	C42
PI STA = 799+66.93	PI STA = 801+44.01	PI STA = 802+09.47	PI STA = 802+38.60	PI STA = 802+59.87	PI STA = 802+88.38
Y = 547407.806	Y = 547583.273	Y = 547616.400	Y = 547621.156	Y = 547622.061	Y = 547621.668
X = 838883.932	X = 838862.461	X = 838940.035	X = 838969.020	X = 838990.241	X = 839018.712
DELTA = 4°38'47"	DELTA = 77°26'55"	DELTA = 13°48'19"	DELTA = 1°28'42"	DELTA = 4°36'46"	DELTA = 3°35'31"
D = 7°01'18"	D = 76°23'40"	D = 28°38'52"	D = 14°19'26"	D = 14°19'26"	D = 14°28'07"
T = 33.11'	T = 60.14'	T = 24.21'	T = 5.16'	T = 16.11'	T = 12.42'
L = 66.18'	L = 101.38'	L = 48.19'	L = 10.32'	L = 32.20'	L = 24.83'
R = 816.00'	R = 75.00'	R = 200.00'	R = 400.00'	R = 400.00'	R = 396.00'
PC STA = 799+33.82	PC STA = 800+83.87	PC STA = 801+85.25	PC STA = 802+33.44	PC STA = 802+43.76	PC STA = 802+75.97
Y = 547374.708	Y = 547524.156	Y = 547606.891	Y = 547620.320	Y = 547621.860	Y = 547620.966
X = 838883.239	X = 838873.496	X = 838917.768	X = 838963.927	X = 838974.132	X = 839006.314
PT STA = 800+00.00	PT STA = 801+85.25	PT STA = 802+33.44	PT STA = 802+43.76	PT STA = 802+75.97	PT STA = 803+00.79
Y = 547440.852	Y = 547606.891	Y = 547620.320	Y = 547621.860	Y = 547620.966	Y = 547621.592
X = 838881.941	X = 838917.768	X = 838963.927	X = 838974.132	X = 839006.314	X = 839031.129
BK = N01°11'56.1"E	BK = N10°34'21.3"W	BK = N66°52'33.2"E	BK = N80°40'52.2"E	BK = N89°17'04.2"E	BK = N86°45'34.5"E
AH = N03°26'51.3"W	AH = N66°52'33.2"E	AH = N80°40'52.2"E	AH = N82°09'34.2"E	AH = S86°06'09.8"E	AH = S89°38'54.0"E

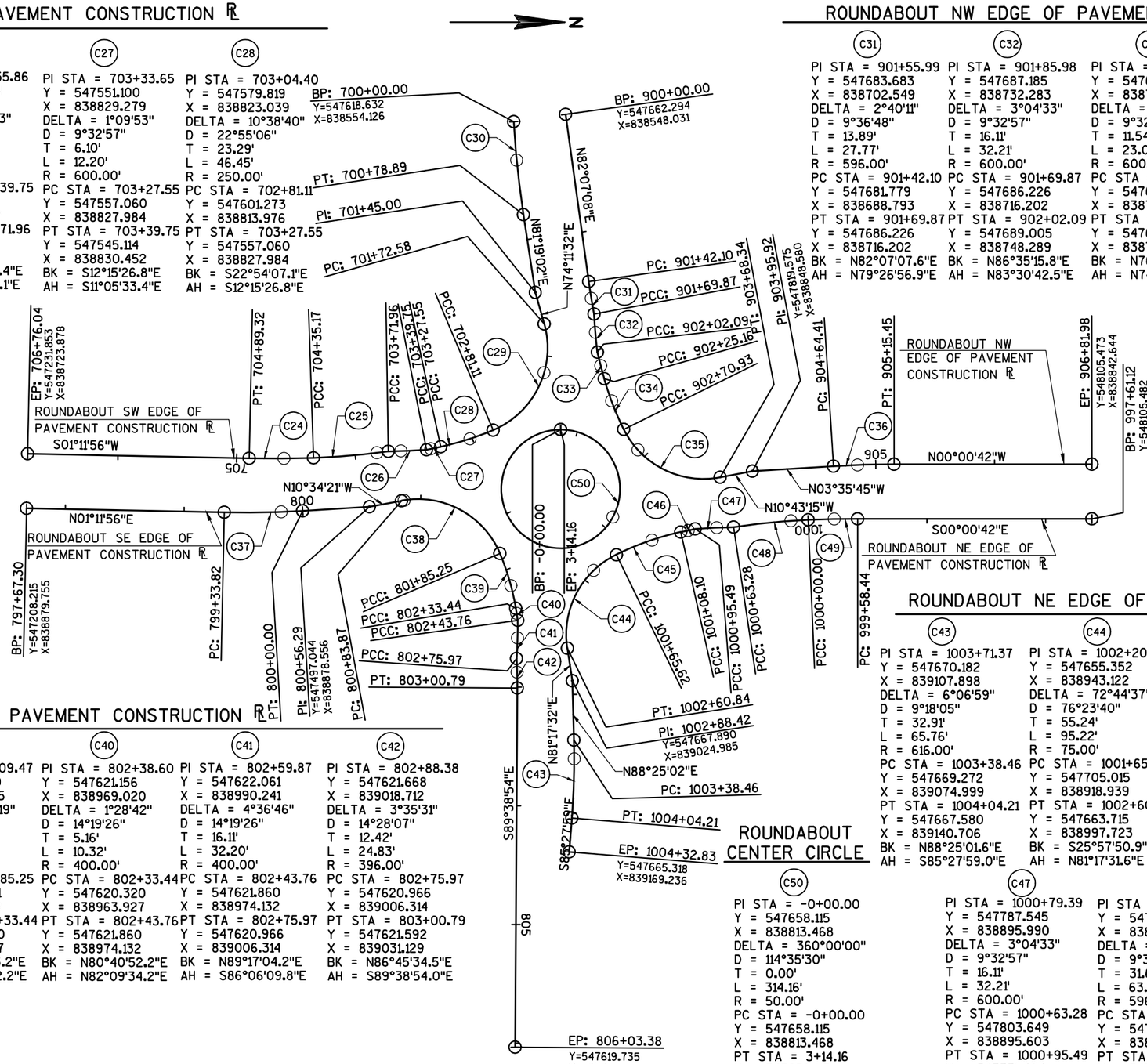
ROUNDABOUT CENTER CIRCLE

C50
PI STA = -0+00.00
Y = 547658.115
X = 838813.468
DELTA = 360°00'00"
D = 114°35'30"
T = 0.00'
L = 314.16'
R = 50.00'
PC STA = -0+00.00
Y = 547658.115
X = 838813.468
PT STA = 3+14.16
Y = 547658.115
X = 838813.468
BK = S00°00'00.0"W
AH = S00°00'00.4"W

ROUNDABOUT NE EDGE OF PAVEMENT CONSTRUCTION ℄

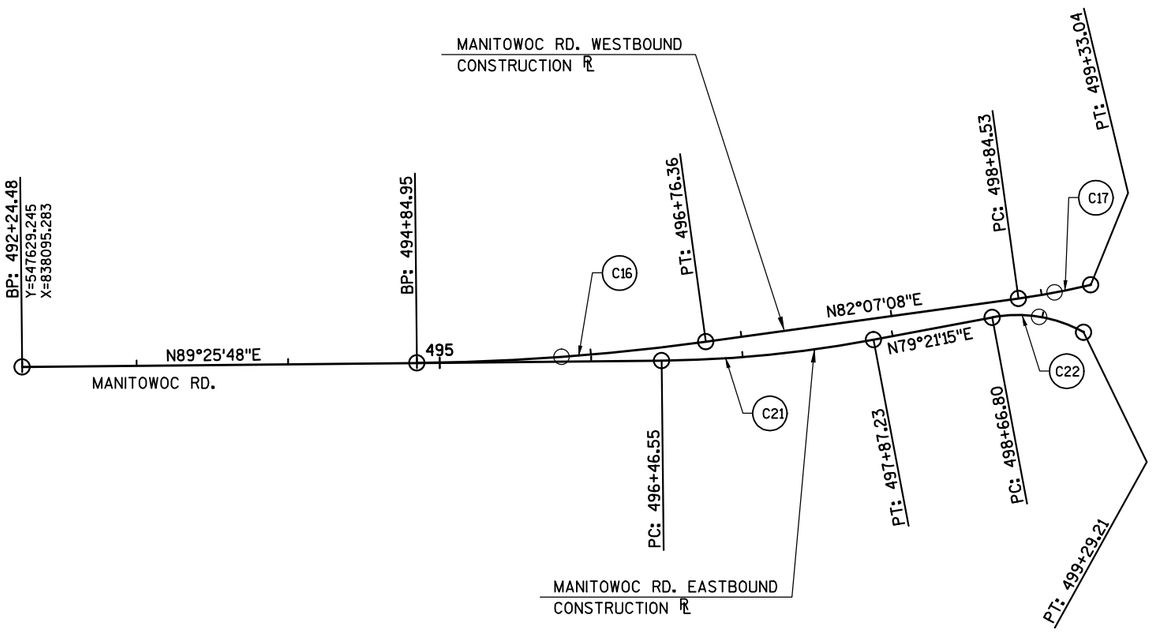
C43	C44	C45	C46
PI STA = 1003+71.37	PI STA = 1002+20.86	PI STA = 1001+36.99	PI STA = 1001+01.80
Y = 547670.182	Y = 547655.352	Y = 547730.987	Y = 547765.308
X = 839107.898	X = 838943.122	X = 838906.291	X = 838898.505
DELTA = 6°06'59"	DELTA = 72°44'37"	DELTA = 13°10'59"	DELTA = 1°12'14"
D = 9°18'05"	D = 76°23'40"	D = 22°55'06"	D = 9°32'57"
T = 32.91'	T = 55.24'	T = 28.89'	T = 6.30'
L = 65.76'	L = 95.22'	L = 57.52'	L = 12.61'
R = 616.00'	R = 75.00'	R = 250.00'	R = 600.00'
PC STA = 1003+38.46	PC STA = 1001+65.62	PC STA = 1001+08.10	PC STA = 1000+95.49
Y = 547669.272	Y = 547705.015	Y = 547759.160	Y = 547771.484
X = 839074.999	X = 838918.939	X = 838899.900	X = 838897.240
PT STA = 1004+04.21	PT STA = 1002+60.84	PT STA = 1001+65.62	PT STA = 1001+08.10
Y = 547667.580	Y = 547663.715	Y = 547705.015	Y = 547759.160
X = 839140.706	X = 838997.723	X = 838918.939	X = 838899.900
BK = N88°25'01.6"E	BK = S25°57'50.9"E	BK = S12°46'52.0"E	BK = S11°34'37.8"E
AH = S85°27'59.0"E	AH = N81°17'31.6"E	AH = S25°57'50.9"E	AH = S12°46'52.0"E

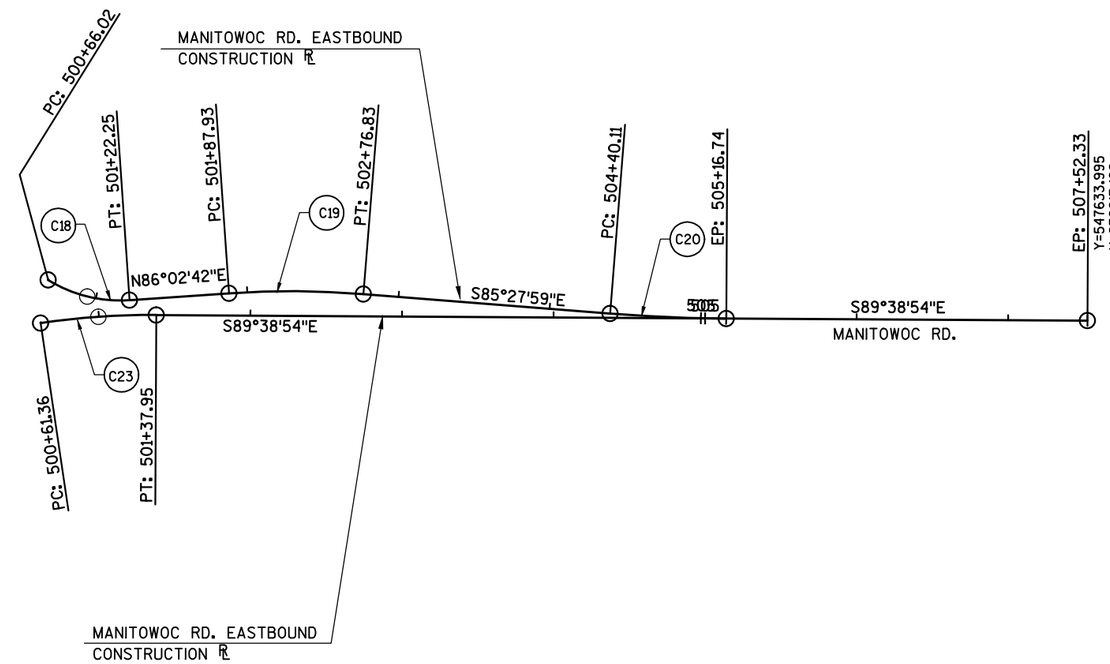
C47	C48	C49
PI STA = 1000+79.39	PI STA = 1000+31.67	PI STA = 999+79.23
Y = 547787.545	Y = 547834.970	Y = 547887.374
X = 838895.990	X = 838890.914	X = 838888.688
DELTA = 3°04'33"	DELTA = 6°05'00"	DELTA = 2°25'11"
D = 9°32'57"	D = 9°36'48"	D = 5°49'22"
T = 16.11'	T = 31.67'	T = 20.78'
L = 32.21'	L = 63.28'	L = 41.56'
R = 600.00'	R = 596.00'	R = 984.00'
PC STA = 1000+63.28	PC STA = 1000+00.00	PC STA = 999+58.44
Y = 547803.649	Y = 547866.611	Y = 547908.155
X = 838895.603	X = 838889.570	X = 838888.684
PT STA = 1000+95.49	PT STA = 1000+63.28	PT STA = 1000+00.00
Y = 547771.484	Y = 547803.649	Y = 547866.611
X = 838897.240	X = 838895.603	X = 838889.570
BK = S01°22'34.5"E	BK = S02°25'53.3"E	BK = S00°00'42.4"E
AH = S04°27'07.8"E	AH = S08°30'53.4"E	AH = S02°25'53.3"E



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	ALIGNMENT DIAGRAM	SHEET 96	E

2





MANITOWOC RD. WESTBOUND CONSTRUCTION ℄

C16	C17	C18	C19	C20
PI STA = 495+80.78	PI STA = 499+08.80	PI STA = 500+95.09	PI STA = 502+32.46	PI STA = 504+78.44
Y = 547632.789	Y = 547677.803	Y = 547645.543	Y = 547655.150	Y = 547635.694
X = 838451.576	X = 838776.755	X = 838956.106	X = 839095.053	X = 839340.427
DELTA = 7°18'41"	DELTA = 5°33'30"	DELTA = 35°48'04"	DELTA = 8°29'19"	DELTA = 4°10'55"
D = 3°49'11"	D = 11°27'33"	D = 63°39'43"	D = 9°32'57"	D = 5°27'24"
T = 95.83'	T = 24.27'	T = 29.07'	T = 44.53'	T = 38.34'
L = 191.41'	L = 48.50'	L = 56.24'	L = 88.89'	L = 76.64'
R = 1500.00'	R = 500.00'	R = 90.00'	R = 600.00'	R = 1050.00'
PC STA = 494+84.95	PC STA = 498+84.53	PC STA = 500+66.02	PC STA = 501+87.93	PC STA = 504+40.11
Y = 547631.836	Y = 547674.475	Y = 547660.882	Y = 547652.079	Y = 547638.724
X = 838355.746	X = 838752.713	X = 838931.412	X = 839050.630	X = 839302.210
PT STA = 496+76.36	PT STA = 499+33.04	PT STA = 501+22.25	PT STA = 502+76.83	PT STA = 505+16.74
Y = 547645.930	Y = 547683.444	Y = 547647.548	Y = 547651.630	Y = 547635.458
X = 838546.505	X = 838800.362	X = 838985.107	X = 839139.442	X = 839378.762
BK = N89°25'48.3"E	BK = N82°07'07.6"E	BK = S58°09'14.8"E	BK = N86°02'41.6"E	BK = S85°27'59.0"E
AH = N82°07'07.6"E	AH = N76°33'38.1"E	AH = N86°02'41.6"E	AH = S85°27'59.0"E	AH = S89°38'54.0"E

MANITOWOC RD. EASTBOUND CONSTRUCTION ℄

C21	C22	C23
PI STA = 497+17.07	PI STA = 498+99.32	PI STA = 500+99.73
Y = 547634.145	Y = 547667.879	Y = 547638.002
X = 838587.856	X = 838767.321	X = 838964.370
DELTA = 10°04'33"	DELTA = 39°43'40"	DELTA = 8°46'39"
D = 7°09'43"	D = 63°39'43"	D = 11°27'33"
T = 70.52'	T = 32.52'	T = 38.37'
L = 140.68'	L = 62.40'	L = 76.60'
R = 800.00'	R = 90.00'	R = 500.00'
PC STA = 496+46.55	PC STA = 498+66.80	PC STA = 500+61.36
Y = 547633.443	Y = 547661.872	Y = 547632.379
X = 838517.335	X = 838735.366	X = 838926.410
PT STA = 497+87.23	PT STA = 499+29.21	PT STA = 501+37.95
Y = 547647.173	Y = 547652.075	Y = 547637.766
X = 838657.166	X = 838795.737	X = 839002.743
BK = N89°25'48.3"E	BK = N79°21'15.4"E	BK = N81°34'27.3"E
AH = N79°21'15.4"E	AH = S60°55'05.0"E	AH = S89°38'54.0"E

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	ALIGNMENT DIAGRAM	SHEET 97	E

4992-00-57

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	9.000	9.000
0004	201.0120	Clearing	ID	400.000	400.000
0006	201.0205	Grubbing	STA	9.000	9.000
0008	201.0220	Grubbing	ID	400.000	400.000
0010	203.0100	Removing Small Pipe Culverts	EACH	23.000	23.000
0012	204.0100	Removing Pavement	SY	283.000	283.000
0014	204.0150	Removing Curb & Gutter	LF	4,652.000	4,652.000
0016	204.0155	Removing Concrete Sidewalk	SY	12.000	12.000
0018	204.0190	Removing Surface Drains	EACH	10.000	10.000
0020	204.0195	Removing Concrete Bases	EACH	2.000	2.000
0022	204.0210	Removing Manholes	EACH	5.000	5.000
0024	204.0220	Removing Inlets	EACH	15.000	15.000
0026	204.0245	Removing Storm Sewer (size) 01. 12-Inch or Less	LF	861.000	861.000
0028	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	161.000	161.000
0030	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	5.000	5.000
0032	204.0245	Removing Storm Sewer (size) 04. 24-Inch	LF	1,330.000	1,330.000
0034	204.0245	Removing Storm Sewer (size) 05. 30-Inch	LF	350.000	350.000
0036	204.0245	Removing Storm Sewer (size) 06. 35x24-Inch	LF	115.000	115.000
0038	204.9090.S	Removing (item description) 01. Retaining Wall	LF	10.000	10.000
0040	204.9105.S	Removing (item description) 01. Old Sign Base	LS	1.000	1.000
0042	205.0100	Excavation Common	CY	52,000.000	52,000.000
0044	205.0400	Excavation Marsh	CY	520.000	520.000
0046	208.1100	Select Borrow	CY	780.000	780.000
0048	213.0100	Finishing Roadway (project) 01. 4992-00-57	EACH	1.000	1.000
0050	305.0110	Base Aggregate Dense 3/4-Inch	TON	100.000	100.000
0052	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	25,500.000	25,500.000
0054	305.0130	Base Aggregate Dense 3-Inch	TON	19,940.000	19,940.000
0056	310.0110	Base Aggregate Open-Graded	TON	8.000	8.000
0058	405.0100	Coloring Concrete WisDOT Red	CY	107.000	107.000
0060	405.1000	Stamping Colored Concrete	CY	95.000	95.000
0062	415.0080	Concrete Pavement 8-Inch	SY	41,315.000	41,315.000
0064	415.0210	Concrete Pavement Gaps	EACH	1.000	1.000
0066	415.1080	Concrete Pavement HES 8-Inch	SY	600.000	600.000
0068	415.4100	Concrete Pavement Joint Filling	SY	45,430.000	45,430.000
0070	415.5110.S	Concrete Pavement Joint Layout	LS	1.000	1.000
0072	416.0160	Concrete Driveway 6-Inch	SY	185.000	185.000
0074	416.0180	Concrete Driveway 8-Inch	SY	120.000	120.000
0076	416.0260	Concrete Driveway HES 6-Inch	SY	260.000	260.000
0078	416.0280	Concrete Driveway HES 8-Inch	SY	375.000	375.000
0080	416.0512	Concrete Truck Apron 12-Inch	SY	320.000	320.000

4992-00-57

Line	Item	Item Description	Unit	Total	Qty
0082	416.0610	Drilled Tie Bars	EACH	150.000	150.000
0084	416.0620	Drilled Dowel Bars	EACH	15.000	15.000
0086	440.4410	Incentive IRI Ride	DOL	5,565.000	5,565.000
0088	455.0605	Tack Coat	GAL	327.000	327.000
0090	460.2000	Incentive Density HMA Pavement	DOL	720.000	720.000
0092	460.5223	HMA Pavement 3 LT 58-28 S	TON	620.000	620.000
0094	460.5224	HMA Pavement 4 LT 58-28 S	TON	495.000	495.000
0096	465.0105	Asphaltic Surface	TON	1,485.000	1,485.000
0098	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	210.000	210.000
0100	465.0315	Asphaltic Flumes	SY	20.000	20.000
0102	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	2.000	2.000
0104	520.2012	Culvert Pipe Temporary 12-Inch	LF	32.000	32.000
0106	520.8000	Concrete Collars for Pipe	EACH	2.000	2.000
0108	521.1221	Apron Endwalls for Pipe Arch Steel 21x15-Inch	EACH	6.000	6.000
0110	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	28.000	28.000
0112	521.3721	Pipe Arch Corrugated Steel 21x15-Inch	LF	102.000	102.000
0114	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000
0116	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000
0118	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	3.000	3.000
0120	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	3.000	3.000
0122	522.1027	Apron Endwalls for Culvert Pipe Reinforced Concrete 27-Inch	EACH	1.000	1.000
0124	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	1.000	1.000
0126	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	220.000	220.000
0128	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	80.000	80.000
0130	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	2,200.000	2,200.000
0132	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	3,136.000	3,136.000
0134	601.0452	Concrete Curb & Gutter Integral 30-Inch Type D	LF	13,473.000	13,473.000
0136	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	155.000	155.000
0138	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	65.000	65.000
0140	601.0580	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	LF	300.000	300.000
0142	601.0600	Concrete Curb Pedestrian	LF	90.000	90.000
0144	602.0405	Concrete Sidewalk 4-Inch	SF	40,730.000	40,730.000
0146	602.0415	Concrete Sidewalk 6-Inch	SF	1,800.000	1,800.000
0148	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	480.000	480.000
0150	602.0615	Curb Ramp Detectable Warning Field Radial Natural	SF	360.000	360.000

4992-00-57

Line	Item	Item Description	Unit	Total	Qty
		Patina			
0152	606.0200	Riprap Medium	CY	20.000	20.000
0154	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	1,921.000	1,921.000
0156	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	186.000	186.000
0158	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	821.000	821.000
0160	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	2,764.000	2,764.000
0162	608.0327	Storm Sewer Pipe Reinforced Concrete Class III 27-Inch	LF	378.000	378.000
0164	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	1,747.000	1,747.000
0166	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	31.000	31.000
0168	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	19.000	19.000
0170	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	516.000	516.000
0172	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	846.000	846.000
0174	608.0427	Storm Sewer Pipe Reinforced Concrete Class IV 27-Inch	LF	62.000	62.000
0176	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	351.000	351.000
0178	608.2429	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	287.000	287.000
0180	611.0535	Manhole Covers Type J-Special	EACH	34.000	34.000
0182	611.0612	Inlet Covers Type C	EACH	9.000	9.000
0184	611.0624	Inlet Covers Type H	EACH	50.000	50.000
0186	611.0636	Inlet Covers Type HM-S	EACH	2.000	2.000
0188	611.0639	Inlet Covers Type H-S	EACH	23.000	23.000
0190	611.0652	Inlet Covers Type T	EACH	2.000	2.000
0192	611.1003	Catch Basins 3-FT Diameter	EACH	7.000	7.000
0194	611.1004	Catch Basins 4-FT Diameter	EACH	6.000	6.000
0196	611.1005	Catch Basins 5-FT Diameter	EACH	4.000	4.000
0198	611.1230	Catch Basins 2x3-FT	EACH	69.000	69.000
0200	611.2003	Manholes 3-FT Diameter	EACH	1.000	1.000
0202	611.2004	Manholes 4-FT Diameter	EACH	9.000	9.000
0204	611.2005	Manholes 5-FT Diameter	EACH	18.000	18.000
0206	611.2006	Manholes 6-FT Diameter	EACH	2.000	2.000

4992-00-57

Line	Item	Item Description	Unit	Total	Qty
0208	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000
0210	611.2008	Manholes 8-FT Diameter	EACH	2.000	2.000
0212	611.9800.S	Pipe Grates	EACH	10.000	10.000
0214	612.0106	Pipe Underdrain 6-Inch	LF	215.000	215.000
0216	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	1,240.000	1,240.000
0218	612.0600	Underdrain Trench	LF	295.000	295.000
0220	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-Inch	SY	94.000	94.000
0222	616.0700.S	Fence Safety	LF	80.000	80.000
0224	618.0100	Maintenance And Repair of Haul Roads (project) 01 4992-00-57	EACH	1.000	1.000
0226	619.1000	Mobilization	EACH	1.000	1.000
0228	620.0300	Concrete Median Sloped Nose	SF	350.000	350.000
0230	621.0100	Landmark Reference Monuments	EACH	8.000	8.000
0232	623.0200	Dust Control Surface Treatment	SY	50,000.000	50,000.000
0234	624.0100	Water	MGAL	500.000	500.000
0236	625.0100	Topsoil	SY	35,000.000	35,000.000
0238	625.0105	Topsoil	CY	140.000	140.000
0240	627.0200	Mulching	SY	2,500.000	2,500.000
0242	628.1504	Silt Fence	LF	7,500.000	7,500.000
0244	628.1520	Silt Fence Maintenance	LF	15,000.000	15,000.000
0246	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0248	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0250	628.2004	Erosion Mat Class I Type B	SY	1,000.000	1,000.000
0252	628.2006	Erosion Mat Urban Class I Type A	SY	38,000.000	38,000.000
0254	628.7005	Inlet Protection Type A	EACH	89.000	89.000
0256	628.7010	Inlet Protection Type B	EACH	8.000	8.000
0258	628.7015	Inlet Protection Type C	EACH	55.000	55.000
0260	628.7020	Inlet Protection Type D	EACH	26.000	26.000
0262	628.7555	Culvert Pipe Checks	EACH	45.000	45.000
0264	628.7560	Tracking Pads	EACH	10.000	10.000
0266	628.7570	Rock Bags	EACH	100.000	100.000
0268	629.0210	Fertilizer Type B	CWT	23.000	23.000
0270	630.0140	Seeding Mixture No. 40	LB	600.000	600.000
0272	630.0200	Seeding Temporary	LB	70.000	70.000
0274	630.0300	Seeding Borrow Pit	LB	20.000	20.000
0276	632.0101	Trees (species) (size) (root) 01. Flowering Crabapple (FC) 2" Cal B&B	EACH	3.000	3.000
0278	632.0201	Shrubs (species) (size) (root) 01. Maney Juniper (JM) 30" HT CG	EACH	15.000	15.000
0280	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	9.000	9.000

4992-00-57

Line	Item	Item Description	Unit	Total	Qty
0282	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	58.000	58.000
0284	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	11.000	11.000
0286	637.2210	Signs Type II Reflective H	SF	416.490	416.490
0288	637.2230	Signs Type II Reflective F	SF	70.500	70.500
0290	638.2102	Moving Signs Type II	EACH	5.000	5.000
0292	638.2602	Removing Signs Type II	EACH	28.000	28.000
0294	638.3000	Removing Small Sign Supports	EACH	29.000	29.000
0296	642.5001	Field Office Type B	EACH	1.000	1.000
0298	643.0300	Traffic Control Drums	DAY	5,640.000	5,640.000
0300	643.0420	Traffic Control Barricades Type III	DAY	4,174.000	4,174.000
0302	643.0705	Traffic Control Warning Lights Type A	DAY	5,998.000	5,998.000
0304	643.0715	Traffic Control Warning Lights Type C	DAY	406.000	406.000
0306	643.0800	Traffic Control Arrow Boards	DAY	42.000	42.000
0308	643.0900	Traffic Control Signs	DAY	2,543.000	2,543.000
0310	643.1050	Traffic Control Signs PCMS	DAY	98.000	98.000
0312	643.1070	Traffic Control Cones 42-Inch	DAY	3,960.000	3,960.000
0314	643.5000	Traffic Control	EACH	1.000	1.000
0316	645.0111	Geotextile Type DF Schedule A	SY	96.000	96.000
0318	645.0120	Geotextile Type HR	SY	40.000	40.000
0320	646.1020	Marking Line Epoxy 4-Inch	LF	30,770.000	30,770.000
0322	646.3020	Marking Line Epoxy 8-Inch	LF	2,100.000	2,100.000
0324	646.5020	Marking Arrow Epoxy	EACH	116.000	116.000
0326	646.5120	Marking Word Epoxy	EACH	7.000	7.000
0328	646.5220	Marking Symbol Epoxy	EACH	56.000	56.000
0330	646.6120	Marking Stop Line Epoxy 18-Inch	LF	230.000	230.000
0332	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	4.000	4.000
0334	646.7120	Marking Diagonal Epoxy 12-Inch	LF	100.000	100.000
0336	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,380.000	2,380.000
0338	646.8120	Marking Curb Epoxy	LF	40.000	40.000
0340	646.8220	Marking Island Nose Epoxy	EACH	6.000	6.000
0342	646.8305	Marking Parking Stall Paint	LF	225.000	225.000
0344	646.9000	Marking Removal Line 4-Inch	LF	175.000	175.000
0346	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	660.000	660.000
0348	650.4000	Construction Staking Storm Sewer	EACH	130.000	130.000
0350	650.4500	Construction Staking Subgrade	LF	8,596.000	8,596.000
0352	650.5000	Construction Staking Base	LF	1,179.000	1,179.000
0354	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	2,174.000	2,174.000
0356	650.7000	Construction Staking Concrete Pavement	LF	7,417.000	7,417.000
0358	650.8500	Construction Staking Electrical Installations (project) 01. 4992-00-57	LS	1.000	1.000

4992-00-57

Line	Item	Item Description	Unit	Total	Qty
0360	650.9000	Construction Staking Curb Ramps	EACH	49.000	49.000
0362	650.9910	Construction Staking Supplemental Control (project) 01. 4992-00-57	LS	1.000	1.000
0364	650.9920	Construction Staking Slope Stakes	LF	8,596.000	8,596.000
0366	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	90.000	90.000
0368	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	70.000	70.000
0370	652.0800	Conduit Loop Detector	LF	230.000	230.000
0372	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	3.000	3.000
0374	653.0900	Adjusting Pull Boxes	EACH	1.000	1.000
0376	653.0905	Removing Pull Boxes	EACH	2.000	2.000
0378	654.0101	Concrete Bases Type 1	EACH	2.000	2.000
0380	654.0102	Concrete Bases Type 2	EACH	1.000	1.000
0382	655.0230	Cable Traffic Signal 5-14 AWG	LF	1,335.000	1,335.000
0384	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,110.000	1,110.000
0386	655.0305	Cable Type UF 2-12 AWG Grounded	LF	370.000	370.000
0388	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	1,400.000	1,400.000
0390	655.0700	Loop Detector Lead In Cable	LF	2,970.000	2,970.000
0392	655.0800	Loop Detector Wire	LF	480.000	480.000
0394	657.0100	Pedestal Bases	EACH	2.000	2.000
0396	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	1.000	1.000
0398	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	1.000	1.000
0400	658.0173	Traffic Signal Face 3S 12-Inch	EACH	3.000	3.000
0402	658.0416	Pedestrian Signal Face 16-Inch	EACH	4.000	4.000
0404	658.0500	Pedestrian Push Buttons	EACH	5.000	5.000
0406	658.5069	Signal Mounting Hardware (location) 01. USH 10 & CTH LP	LS	1.000	1.000
0408	690.0150	Sawing Asphalt	LF	1,087.000	1,087.000
0410	690.0250	Sawing Concrete	LF	406.000	406.000
0412	715.0415	Incentive Strength Concrete Pavement	DOL	12,395.000	12,395.000
0414	715.0710	Optimized Aggregate Gradation Incentive	DOL	30,677.000	30,677.000
0416	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0418	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,100.000	2,100.000
0420	SPV.0035	Special 01. Planting Mixture	CY	60.000	60.000
0422	SPV.0060	Special 01. Utility Line Openings	EACH	10.000	10.000
0424	SPV.0060	Special 02. Reconstructing Sanitary Manhole	EACH	19.000	19.000
0426	SPV.0060	Special 03. Adjusting Valve Boxes	EACH	36.000	36.000
0428	SPV.0060	Special 04. Abandoning Water Service 10-Inch	EACH	1.000	1.000
0430	SPV.0060	Special 05. Shut Off Water Corporation	EACH	1.000	1.000
0432	SPV.0060	Special 06. Abandon Sanitary Lateral	EACH	1.000	1.000
0434	SPV.0060	Special 07. Section Survey Monuments	EACH	2.000	2.000

4992-00-57

Line	Item	Item Description	Unit	Total	Qty
0436	SPV.0090	Special 01. Storm Sewer Pipe PVC 4-Inch	LF	30.000	30.000
0438	SPV.0090	Special 02. Storm Sewer Pipe PVC 6-Inch	LF	5.000	5.000
0440	SPV.0090	Special 03. Storm Sewer Pipe PVC 8-Inch	LF	11.000	11.000
0442	SPV.0090	Special 04. Storm Sewer Pipe PVC 10-Inch	LF	18.000	18.000
0444	SPV.0090	Special 05. Storm Sewer Pipe PVC 12-Inch	LF	11.000	11.000
0446	SPV.0090	Special 06. Concrete Curb & Gutter 24-Inch Type D	LF	350.000	350.000
0448	SPV.0090	Special 07. Ditching	LF	170.000	170.000
0450	SPV.0090	Special 08. Water Main 6-Inch	LF	20.000	20.000
0452	SPV.0090	Special 09. Water Main 8-Inch	LF	30.000	30.000
0454	SPV.0090	Special 10. Water Main 10-Inch	LF	30.000	30.000
0456	SPV.0090	Special 11. Water Service 1 1/4-Inch	LF	120.000	120.000
0458	SPV.0090	Special 12. Water Service 2-Inch	LF	15.000	15.000
0460	SPV.0105	Special 01. Remove Signal (USH 10 & CTH LP)	LS	1.000	1.000
0462	SPV.0105	Special 02. Relocate Signal Pole/Remove Signal Face (USH 10 & CTH LP)	LS	1.000	1.000
0464	SPV.0105	Special 03. Preservation of Existing Monuments	LS	1.000	1.000
0466	SPV.0105	Special 04. Verify and Restoring of Existing Monuments	LS	1.000	1.000
0468	SPV.0120	Special 01. Water for Seeded Areas	MGAL	27.000	27.000
0470	SPV.0180	Special 01. Shredded Hardwood Bark Mulch	SY	177.000	177.000

3

CLEARING AND GRUBBING

STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
47+00	-	59+00	CTH LP, NB, RT	-	-	170	170
59+00	-	69+00	CTH LP, NB, RT	-	-	110	110
59+00	-	69+00	CTH LP, NB, LT	-	-	80	80
73+00	-	74+00	CTH LP, NB, RT	1	1	-	-
600+00	-	601+00	ETHAN DR, RT	1	1	-	-
496+00	-	499+00	MANITOWOC RD, EB, LT	3	3	-	-
501+00	-	504+00	MANITOWOC RD, EB, LT	3	3	-	-
UNDISTRIBUTED				1	1	40	40
TOTALS				9	9	400	400

REMOVING CURB AND GUTTER

STATION	TO	STATION	LOCATION	204.0150 LF
20+16	-	20+60	CTH LP, NB, LT	60
21+98	-	22+26	CTH LP, NB, LT	53
21+98	-	22+34	CTH LP, NB, RT	65
47+05	-	62+17	CTH LP, NB, RT	1,513
58+35	-	61+57	CTH LP, NB, LT	322
73+12	-	74+89	CTH LP, NB, LT	167
198+80	-	199+70	SONNY DR, LT	112
198+80	-	199+70	SONNY DR, RT	114
199+14	-	199+50	SONNY DR, MEDIAN	84
200+29	-	201+44	SONNY DR, LT	140
200+29	-	201+44	SONNY DR, RT	142
298+35	-	299+72	VILLA WAY, LT	161
298+35	-	299+72	VILLA WAY, RT	163
300+29	-	301+70	VILLA WAY, LT	166
300+29	-	301+70	VILLA WAY, RT	158
398+35	-	399+72	WINNIPEG ST, LT	160
398+60	-	399+72	WINNIPEG ST, RT	141
498+43	-	499+72	MANITOWOC RD, EB, LT	154
499+44	-	499+84	MANITOWOC RD, EB, RT	55
500+16	-	500+65	MANITOWOC RD, EB, LT	60
500+34	-	500+62	MANITOWOC RD, EB, RT	74
598+25	-	599+75	ETHAN DR, LT	171
598+25	-	599+75	ETHAN DR, RT	178
600+27	-	601+25	ETHAN DR, LT	119
600+27	-	601+25	ETHAN DR, RT	120
TOTAL				4,652

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH
22+23	CTH LP, NB	1
43+01	CTH LP, NB	1
99+63	COMMUNITY WAY	1
200+70	SONNY DR	1
500+42	MANITOWOC RD, EB	1
504+26	MANITOWOC RD, EB	1
599+57	ETHAN DR	1
23+20	CTH LP, NB, LT	1
24+10	CTH LP, NB, RT	1
27+90	CTH LP, NB, RT	1
38+00	CTH LP, NB, RT	1
39+85	CTH LP, NB, RT	1
63+60	CTH LP, NB, RT	1
64+65	CTH LP, NB, LT	1
65+24	CTH LP, NB, RT	1
67+45	CTH LP, NB, LT	1
67+50	CTH LP, NB, RT	1
90+35	CTH LP, NB, LT	1
90+50	CTH LP, NB, RT	1
496+00	MANITOWOC RD, EB, LT	1
503+25	MANITOWOC RD, EB, RT	1
504+35	MANITOWOC RD, EB, RT	1
504+90	MANITOWOC RD, EB, LT	1
TOTAL		23

REMOVING SURFACE DRAINS

STATION	LOCATION	204.0190 SY
95+10	CTH LP, NB, LT	10
TOTAL		10

REMOVING CONCRETE SIDEWALK

STATION	TO	STATION	LOCATION	204.0155 SY
96+09	-	96+37	CTH LP, NB, LT	12
TOTAL				12

REMOVING PAVEMENT

STATION	TO	STATION	LOCATION	204.0100 SY	REMARKS
95+14	-	95+30	CTH LP, NB	68	
95+14	-	96+32	CTH LP, NB, LT	23	
95+14	-	96+42	CTH LP, NB, RT	60	
54+00			CTH LP, NB, RT	34	PE
64+75			CTH LP, NB, LT	13	PE
67+50			CTH LP, NB, LT	23	PE
399+00			WINNIPEG ST, LT	62	PE
TOTAL				283	

REMOVING MANHOLES AND INLETS

STATION	LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA
25+82	CTH LP, NB, RT	-	2
30+00	CTH LP, NB, LT	1	-
46+15	CTH LP, NB, LT	1	-
46+65	CTH LP, NB, LT	-	1
46+72	CTH LP, NB, RT	-	1
47+03	CTH LP, NB, RT	-	1
48+16	CTH LP, NB, LT	-	1
51+10	CTH LP, NB, RT	-	1
54+85	CTH LP, NB, RT	-	1
55+30	CTH LP, NB, RT	-	1
56+86	CTH LP, NB, RT	-	1
57+47	CTH LP, NB, LT	-	1
57+99	CTH LP, NB, LT	-	1
59+10	CTH LP, NB, LT	-	1
59+22	CTH LP, NB, LT	1	-
59+75	CTH LP, NB, RT	-	1
61+33	CTH LP, NB, LT	1	1
86+45	CTH LP, NB, RT	1	-
95+15	CTH LP, NB, RT	-	1
TOTALS		5	15

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

REMOVING STORM SEWER

STATION	TO	STATION	LOCATION	204.0245.01 12-INCH OR LESS LF	204.0245.02 15-INCH LF	204.0245.03 18-INCH LF	204.0245.04 24-INCH LF	204.0245.05 30-INCH LF	204.0245.06 35x24-INCH LF
22+31	-	23+76	CTH LP, NB, RT	-	-	-	145	-	-
	25+82		CTH LP, NB, RT	408	-	-	-	-	-
	25+82		CTH LP, NB, LT	7	-	-	-	-	-
29+27	-	30+88	CTH LP, NB	-	161	-	75	-	-
45+11	-	48+60	CTH LP, NB, RT	160	-	-	-	350	-
	51+00		CTH LP, NB	49	-	-	-	-	-
	54+85		CTH LP, NB	60	-	-	-	-	-
56+33	-	62+37	CTH LP, NB, LT	177	-	-	615	-	115
	61+33		CTH LP, NB, LT		-	-	-	-	-
71+88	-	75+25	CTH LP, NB, LT	-	-	-	325	-	-
85+66	-	86+90	CTH LP, NB, RT	-	-	5	115	-	-
601+02	-	600+50	ETHAN DR, LT	-	-	-	55	-	-
TOTALS				861	161	5	1330	350	115

REMOVING RETAINING WALL

STATION	LOCATION	204.9090.S.01 QUANTITY LF
52+90	CTH LP, NB, RT	10
TOTAL		10

REMOVING OLD SIGN BASE

STATION	LOCATION	204.9105.S.01 QUANTITY LS
50+96	CTH LP, NB, RT	1
TOTAL		1

EARTHWORK SUMMARY

Division	From/To Station	Location	Common Excavation (1) (Item # 205.0100) Cut (1)	Common Excavation (1) (Item # 205.0100) EBS Excavation (3)	Unusable Pavement Material (4)	Available Material (5)	Marsh Excavation (6) (item #205.0400)	Unexpanded Fill	Expanded Fill (13) Factor 1.33	Mass Ordinate +/- (14)	Waste	Select Borrow (item #208.1100)
1	22+50 - 95+25	CTH LP	44,517		6,803	37,714	520	7,398	9,839	27,875	34,678	780
	99+00 - 99+50	COMMUNITY DRIVE	167			167		1	1	166	166	
	198+80 - 201+44	SONNY DRIVE	805		99	706		36	48	658	757	
	298+35 - 299+38.76	VILLA WAY	299		53	246		13	17	229	282	
	300+66.46 - 301+70	WOODLAND ROAD	356		53	303		45	60	243	296	
	398+35 - 399+49.03	WINNIPEG STREET	297		53	244		10	13	231	284	
	494+75 - 505+45	MANITOWOC ROAD	2,930		452	2,478		448	596	1,882	1,316	
	0+00 - 3+00	ROUNDABOUT CIRCLE	591		144	447		1,102	1,466	-1,019	144	
	598+25 - 599+44.8	ETHAN DRIVE	704		85	619		5	7	612	697	
		UNDISTRIBUTED		1,334		1,334		0	0	1,334	1,334	
Division 1 Totals			50,666	1,334	7,742	44,258	520	9,058	12,047	32,211	39,953	780
		Total Common Exc		52,000								

1) Common Excavation includes existing asphalt and concrete. Item number 205.0100
3) EBS Excavation to be backfilled with Base Aggregate Dense 3-Inch
4) Unusable Pavement Material = existing asphalt and concrete pavement
5) Available Material = Cut - Unusable Pavement Material
6) Marsh Excavation - to be backfilled with Select Borrow Material as shown in cross sections.
10) Expanded Marsh Backfill Factor = 1.5, Expanded Marsh Backfill = Marsh Excavation * Fill Factor
13) Expanded Fill Factor = 1.33, Expanded Fill = Unexpanded Fill * Fill Factor
14) The Mass Ordinate + or - Qty calculated for the section. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the section.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

BASE AGGREGATE DENSE AND WATER

STATION	TO	STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	305.0130 3-INCH TON	624.0100 WATER MGAL
20+18	-	34+00	CTH LP, NB	10	3,798	2,850	67
34+00	-	47+00	CTH LP, NB	10	3,929	2,959	70
47+00	-	59+00	CTH LP, NB	-	3,501	2,574	61
59+00	-	69+47	CTH LP, NB	15	2,978	2,132	52
69+47	-	76+23	CTH LP, NB	-	2,042	1,446	35
76+23	-	87+00	CTH LP, NB	-	3,122	2,351	55
87+00	-	96+42	CTH LP, NB	-	2,480	1,754	42
99+00	-	99+50	COMMUNITY WAY	-	68	57	1
198+80	-	199+50	SONNY DRIVE	-	238	247	5
200+66	-	201+40	SONNY DRIVE	-	164	226	4
298+35	-	299+38	VILLA WAY	-	168	252	4
300+67	-	303+75	WOODLAND ROAD	10	205	281	5
398+35	-	399+49	WINNIPEG STREET	-	191	246	4
496+80	-	499+21.99	MANITOWOC ROAD, EB	25	914	1,006	19
500+61.36	-	503+00	MANITOWOC ROAD, EB	30	958	1,089	20
598+25	-	599+45	ETHAN DRIVE	-	196	295	5
600+61	-	601+25	ETHAN DRIVE	-	115	175	3
23+60	-	24+00	CTH LP, NB, RT / TEMP DWY	-	30	-	1
ENTIRE PROJECT			MAINTAIN ACCESS	-	400	-	-
ENTIRE PROJECT			DUST CONTROL	-	-	-	46
TOTALS				100	25,500	19,940	500

CONCRETE SIDEWALK AND DRIVEWAY

STATION	TO	STATION	LOCATION	405.1000 STAMPING COLORED CONCRETE CY	416.0160 DRIVEWAY 6-INCH SY	416.0180 DRIVEWAY 8-INCH SY	416.0260 DRIVEWAY HES 6-INCH SY	416.0280 DRIVEWAY HES 8-INCH SY	602.0405 SIDEWALK 4-INCH SF	602.0415 SIDEWALK 6-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0615 CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF
20+18	-	34+00	CTH LP, NB	-	44	-	-	92	5,035	350	100	150.2
34+00	-	47+00	CTH LP, NB	-	60	65	-	-	5,895	75	20	82
47+00	-	59+00	CTH LP, NB	-	-	-	115	202	4,930	75	20	48
59+00	-	69+47	CTH LP, NB	-	-	-	145	81	5,010	-	-	-
69+47	-	76+23	CTH LP, NB	48	-	-	-	-	5,850	1,140	320	-
76+23	-	87+00	CTH LP, NB	-	-	-	-	-	4,931	160	20	80
87+00	-	96+42	CTH LP, NB	-	-	55	-	-	4,903	-	-	-
198+80	-	199+50	SONNY DRIVE	-	-	-	-	-	251	-	-	-
200+66	-	201+40	SONNY DRIVE	-	-	-	-	-	400	-	-	-
398+35	-	399+49	WINNIPEG STREET	-	81	-	-	-	-	-	-	-
496+80	-	499+21.99	MANITOWOC ROAD, EB	20	-	-	-	-	1,475	-	-	-
500+61.36	-	503+00	MANITOWOC ROAD, EB	27	-	-	-	-	2,050	-	-	-
TOTALS				95	185	120	260	375	40,730	1,800	480	360

NOTE: USE SIDEWALK 6-INCH FOR ALL CURB RAMPS

3

CONCRETE PAVEMENT

STATION	TO	STATION	LOCATION	405.0100 COLORING CONCRETE RED CY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	415.4100 CONCRETE PAVEMENT JOINT FILLING SY	416.0512 CONCRETE TRUCK APRON 12-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	REMARKS
20+18	-	34+00	CTH LP, NB	-	7,345	-	-	7,959	-	55	-	
34+00	-	47+00	CTH LP, NB	-	6,987	1	600	7,565	-	-	-	GAP AT WOODLAND RD
47+00	-	59+00	CTH LP, NB	-	6,528	-	-	7,061	-	-	-	
59+00	-	69+47	CTH LP, NB	-	5,350	-	-	5,815	-	-	-	
69+47	-	76+23	CTH LP, NB	107	2,962	-	-	3,563	320	-	-	
76+23	-	87+00	CTH LP, NB	-	5990	-	-	6,469	-	-	-	
87+00	-	96+42	CTH LP, NB	-	4325	-	-	4,743	-	95	15	
496+80	-	499+21.99	MANITOWOC ROAD, EB	-	967	-	-	1,182	-	-	-	
500+61.36	-	503+00	MANITOWOC ROAD, EB	-	861	-	-	1,073	-	-	-	
TOTALS				107	41,315	1	600	45,430	320	150	15	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

ASPHALTIC PAVEMENT

STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
20+18	-	34+00	CTH LP, NB	-	-	-	225	25
34+00	-	47+00	CTH LP, NB	-	-	-	240	5
47+00	-	59+00	CTH LP, NB	-	-	-	220	110
59+00	-	69+47	CTH LP, NB	-	-	-	200	20
69+47	-	76+23	CTH LP, NB	-	-	-	165	-
76+23	-	87+00	CTH LP, NB	-	-	-	200	-
87+00	-	96+42	CTH LP, NB	-	-	-	180	10
99+00	-	99+50	COMMUNITY WAY	11	20	20	-	-
198+80	-	199+50	SONNY DRIVE	27	50	40	-	-
200+66	-	201+40	SONNY DRIVE	26	50	40	25	-
298+35	-	299+38	VILLA WAY	29	55	45	-	-
300+67	-	301+70	WOODLAND ROAD	32	60	50	-	10
398+35	-	399+49	WINNIPEG STREET	27	50	40	-	-
496+80	-	499+21.99	MANITOWOC ROAD, EB	55	105	80	15	20
500+61.36	-	503+00	MANITOWOC ROAD, EB	67	125	100	15	10
598+25	-	599+45	ETHAN DRIVE	33	65	50	-	-
600+61	-	601+25	ETHAN DRIVE	20	40	30	-	-
TOTALS				327	620	495	1,485	210

CULVERT PIPE & ENDWALLS

STATION	LOCATION	521.3118 PIPE ARCH CORRUGATED STEEL 18-INCH LF	521.3721 PIPE ARCH CORRUGATED STEEL 21x15-INCH LF	520.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	521.1221 APRON ENDWALLS FOR PIPE ARCH STEEL 21x15-INCH EACH	THICKNESS STEEL INCH
302+90	WOODLAND DR, RT	28	-	2	-	0.064
4+96	MANITOWOC RD, EB, LT	-	38	-	2	0.064
497+87	MANITOWOC RD, EB, RT	-	38	-	2	0.064
503+75	MANITOWOC RD, EB, LT	-	26	-	2	0.064
TOTALS		28	102	2	6	

CONCRETE MEDIAN SLOPE NOSE

STATION	TO	STATION	LOCATION	620.0300 QUANTITY SF	COMMENTS
69+47	-	76+23	CTH LP, NB	190	SPLITTER ISLAND
496+80	-	499+21.99	MANITOWOC ROAD, EB	80	SPLITTER ISLAND
500+61.36	-	503+00	MANITOWOC ROAD, EB	80	SPLITTER ISLAND
TOTALS				350	

CONCRETE CURB AND GUTTER

STATION	TO	STATION	LOCATION	601.0405 18-INCH TYPE A LF	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	601.0452 INTEGRAL 30-INCH TYPE D LF	601.0555 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 6-INCH SLOPED 36-INCH TYPE D LF	601.0580 4-INCH SLOPED 36-INCH TYPE R LF	601.0600 PEDESTRIAN LF	SPV.0090.06 24-INCH TYPE D LF
20+18	-	34+00	CTH LP, NB	-	-	-	-	2259	155	65	-	-	-
34+00	-	47+00	CTH LP, NB	-	-	-	-	2577	-	-	-	-	-
47+00	-	59+00	CTH LP, NB	-	-	-	-	2309	-	-	-	-	-
59+00	-	69+47	CTH LP, NB	-	-	-	-	2094	-	-	-	-	-
69+47	-	76+23	CTH LP, NB	220	-	1950	-	479	-	-	300	45	-
76+23	-	87+00	CTH LP, NB	-	-	-	-	2127	-	-	-	-	-
87+00	-	96+42	CTH LP, NB	-	-	250	-	1628	-	-	-	-	-
			COMMUNITY WAY	-	-	-	100	-	-	-	-	-	-
198+80	-	199+50	SONNY DRIVE	-	80	-	-	-	-	-	-	-	140
200+66	-	201+40	SONNY DRIVE	-	-	-	150	-	-	-	-	-	-
298+35	-	299+38	VILLA WAY	-	-	-	-	-	-	-	-	-	210
300+67	-	301+70	WOODLAND ROAD	-	-	-	208	-	-	-	-	-	-
398+35	-	399+49	WINNIPEG STREET	-	-	-	204	-	-	-	-	-	-
496+80	-	499+21.99	MANITOWOC ROAD, EB	-	-	-	992	-	-	-	-	24	-
500+61.36	-	503+00	MANITOWOC ROAD, EB	-	-	-	1114	-	-	-	-	21	-
598+25	-	599+45	ETHAN DRIVE	-	-	-	240	-	-	-	-	-	-
600+61	-	601+25	ETHAN DRIVE	-	-	-	128	-	-	-	-	-	-
TOTALS				220	80	2,200	3,136	13,473	155	65	300	90	350

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 SY
22+00	CTH LP, NB, LT	10
504+75	MANITOWOC ROAD, EB, RT	10
TOTAL		20

CULVERT PIPE TEMPOARY

STATION	LOCATION	520.2012 12-INCH LF
23+85	CTH LP, NB, RT	32
TOTAL		32

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE

PIPES			STORM SEWER REINFORCED CONCRETE CLASS III						STORM SEWER REINFORCED CONCRETE CLASS IV							STORM SEWER PVC					520.8000
FROM	TO	LOCATION	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0412 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0427 27-INCH LF	608.0430 30-INCH LF	608.2429 HE 29x45-INCH LF	SPV.0090.01 4-INCH LF	SPV.0090.02 6-INCH LF	SPV.0090.03 8-INCH LF	SPV.0090.04 10-INCH LF	SPV.0090.05 12-INCH LF	CONCRETE COLLARS FOR PIPE EA
35B	35A	CTH LP	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35A	35	CTH LP	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32A	32	CTH LP	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	31	CTH LP	5	-	-	-	-	-	-	-	199	-	-	-	-	-	-	-	-	-	-
31F	31B	CTH LP	-	-	-	-	-	-	-	-	200	-	-	-	-	-	-	-	-	-	-
31B	31	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31G	31A	CTH LP	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	31A	CTH LP		-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31A	31C	CTH LP	-	-	-	-	-	-	-	-	-	-	62	-	-	-	-	-	-	-	-
31C	31E	CTH LP	-	-	-	-	306	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31E	31D	CTH LP	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	31	CTH LP	-	-	-	-	-	-	-	-	-	204	-	-	-	-	-	-	-	-	-
30B	30	CTH LP	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30A	30	CTH LP	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29C	30	CTH LP	-	-	-	-	-	-	-	-	-	210	-	-	-	-	-	-	-	-	-
29D	29C	CTH LP	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	29C	CTH LP	-	-	-	-	-	-	-	-	-	85	-	-	-	-	-	-	-	-	-
29A	29	CTH LP	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29B	29	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	29	CTH LP	-	-	-	-	-	-	-	-	-	284	-	-	-	-	-	-	-	-	-
28C	28A	SONNY DR	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28A	28	CTH LP	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28B	28	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	28	CTH LP	-	-	-	198	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EXIST	27A	CTH LP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-
27A	27	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27B	27	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	27	CTH LP	-	-	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25A	25	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25B	25	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23C	23D	CTH LP	-	-	-	-	-	-	-	-	-	-	-	-	88	-	-	-	-	-	-
23	23C	CTH LP	-	-	-	-	-	-	-	-	-	-	-	-	199	-	-	-	-	-	-
23E	23A	CTH LP	-	-	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23A	23	CTH LP	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23B	23	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	23	CTH LP	-	-	-	-	-	-	-	-	-	-	-	351	-	-	-	-	-	-	-
22F	22B	VILLA WAY	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22B	22	VILLA WAY	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22A	22	WOODLAND RD	-	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22C	22A	CTH LP	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22D	22	WOODLAND RD	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22E	22	CTH LP	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EXIST	21A	CTH LP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
21A	21	CTH LP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	22	CTH LP	-	-	-	-	-	212	-	-	-	-	-	-	-	-	-	-	-	-	-

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE (CONTINUED)

PIPES			STORM SEWER REINFORCED CONCRETE CLASS III						STORM SEWER REINFORCED CONCRETE CLASS IV							STORM SEWER PVC					520.8000
FROM	TO	LOCATION	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0412 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0427 27-INCH LF	608.0430 30-INCH LF	608.2429 HE 29x45-INCH LF	SPV.0090.01 4-INCH LF	SPV.0090.02 6-INCH LF	SPV.0090.03 8-INCH LF	SPV.0090.04 10-INCH LF	SPV.0090.05 12-INCH LF	CONCRETE COLLARS FOR PIPE EA
20	21	CTH LP	-	-	-	-	-	101	-	-	-	-	-	-	-	-	-	-	-	-	-
20A	20	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20B	20	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	20	CTH LP	-	-	-	-	-	332	-	-	-	-	-	-	-	-	-	-	-	-	-
19C	19A	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19A	19	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19B	19	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	19	CTH LP	-	-	-	-	-	188	-	-	-	-	-	-	-	-	-	-	-	-	-
18C	18A	CTH LP	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
18A	18	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18B	18	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17B	17A	CTH LP	20	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	-	-	-
17A	17	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	17	CTH LP	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	-	-	-
16B	16A	WINNIPEG ST	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16A	16	CTH LP	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	16	CTH LP	-	-	-	-	-	246	-	-	-	-	-	-	-	-	-	-	-	-	-
15A	15	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-
15B	15	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	15	CTH LP	-	-	-	-	-	256	-	-	-	-	-	-	-	-	-	-	-	-	-
14A	14	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14B	14	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	14	CTH LP	-	-	-	-	-	273	-	-	-	-	-	-	-	-	-	-	-	-	-
13A	13	CTH LP	-	-	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	13	CTH LP	-	-	-	-	-	77	-	-	-	-	-	-	-	-	-	-	-	-	-
12A	12	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12B	12	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	12	CTH LP	-	-	-	355	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11A	11	CTH LP	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11D	11C	CTH LP	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11C	11B	CTH LP	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11B	11	CTH LP	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	11	CTH LP	-	-	-	297	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	10	CTH LP	-	-	-	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9A	CTH LP	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9B	9A	MANITOWOC RD	-	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9C	9B	MANITOWOC RD	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9D	9E	MANITOWOC RD	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9E	9B	MANITOWOC RD	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	10	CTH LP	-	-	-	101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	8	CTH LP	-	-	-	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7D	7C	CTH LP	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7C	7B	CTH LP	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7B	7	CTH LP	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7E	7A	CTH LP	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE (CONTINUED)

PIPES			STORM SEWER REINFORCED CONCRETE CLASS III						STORM SEWER REINFORCED CONCRETE CLASS IV							STORM SEWER PVC					520.8000
FROM	TO	LOCATION	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0412 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0427 27-INCH LF	608.0430 30-INCH LF	608.2429 HE 29x45-INCH LF	SPV.0090.01 4-INCH LF	SPV.0090.02 6-INCH LF	SPV.0090.03 8-INCH LF	SPV.0090.04 10-INCH LF	SPV.0090.05 12-INCH LF	CONCRETE COLLARS FOR PIPE EA
7A	7	CTH LP	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	7	CTH LP	-	-	-	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6A	6	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6B	6	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	6	CTH LP	-	-	-	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5A	5	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5B	5	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	5	CTH LP	-	-	-	394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4A	4	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4B	4	CTH LP	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	4	CTH LP	-	-	-	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3E	3C	ETHAN DR	-	-	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3C	3D	ETHAN DR	-	-	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EXIST	3D	ETHAN DR	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
3D	3A	CTH LP	-	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3A	3	CTH LP	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3F	3B	CTH LP	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	3	CTH LP	-	-	-	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2B	2A	CTH LP	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2A	2	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2	CTH LP	-	-	-	315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1A	1	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1B	1	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1C	1	CTH LP	-	-	250		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1D	1C	CTH LP	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1E	1C	CTH LP	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1F	EXIST	CTH LP	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
39	37	MANITOWOC RD	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-
37	38	MANITOWOC RD	-	-	-	-	-	-	-	-	99	-	-	-	-	-	-	-	-	-	-
38A	38	MANITOWOC RD	-	-	-	-	-	-	-	-	-	41	-	-	-	-	-	-	-	-	-
38	38B	MANITOWOC RD	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-	-	-	-
36D	36C	MANITOWOC RD	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-
36C	36B	MANITOWOC RD	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-
36B	36A	MANITOWOC RD	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-
36A	36	MANITOWOC RD	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TOTALS	1,921	186	821	2,764	378	1,747	31	19	516	846	62	351	287	30	5	11	18	11	2

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER STRUCTURES, COVERS, AND ENDWALLS

STR. NO.	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	INLET COVERS 611.0612 TYPE C EACH	611.0624 TYPE H EACH	611.0636 TYPE HM-S EACH	611.0639 TYPE H-S EACH	611.0652 TYPE T EACH	CATCH BASINS 611.1003 3-FT DIA EACH	611.1004 4-FT DIA EACH	611.1005 5-FT DIA EACH	611.1230 2X3-FT EACH	MANHOLES 611.2003 3-FT DIA EACH	611.2004 4-FT DIA EACH	611.2005 5-FT DIA EACH	611.2006 6-FT DIA EACH	611.2007 7-FT DIA EACH	611.2008 8-FT DIA EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1012 12-INCH EA	522.1015 15-INCH EA	522.1018 18-INCH EA	522.1024 24-INCH EA	522.1027 27-INCH EA	523.2629 HE 29x45-INCH EA	611.9800.S PIPE GRATES EA	JOINT* TIES EACH
35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	6
35A	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35B	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32A	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
31	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
31A	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31B	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31C	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	6
31G	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31E	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31F	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
30A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29C	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
29D	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29E	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
29	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
29A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
28A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28C	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
27A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
25A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
23A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23C	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
23D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	6	
23E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	6	
22	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
22A	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22B	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22C	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22D	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22E	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22F	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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STORM SEWER STRUCTURES AND COVERS (CONTINUED)

STR. NO.	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	INLET COVERS 611.0612 TYPE C EACH	611.0624 TYPE H EACH	611.0636 TYPE HM-S EACH	611.0639 TYPE H-S EACH	611.0652 TYPE T EACH	CATCH BASINS 611.1003 3-FT DIA EACH	611.1004 4-FT DIA EACH	611.1005 5-FT DIA EACH	611.1230 2X3-FT EACH	MANHOLES 611.2003 3-FT DIA EACH	611.2004 4-FT DIA EACH	611.2005 5-FT DIA EACH	611.2006 6-FT DIA EACH	611.2007 7-FT DIA EACH	611.2008 8-FT DIA EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1012 12-INCH EA	522.1015 15-INCH EA	522.1018 18-INCH EA	522.1024 24-INCH EA	522.1027 27-INCH EA	523.2629 HE 29x45-INCH EA	611.9800.S PIPE GRATES EA	JOINT * TIES EACH
21	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
21A	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
20A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
19A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19C	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
18A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18C	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
17A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17B	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
16A	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16B	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
15A	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15B	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
14A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
13A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	6
12	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
12A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11C	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11D	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9A	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9B	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9C	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9D	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9E	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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7B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7C	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7D	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7E	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
6A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
5A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
4A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
3A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3C	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3D	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
3E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
3F	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
2A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2B	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
1A	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1B	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1C	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
1D	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1E	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1F	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
38	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
38A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	6
38B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	6
39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	6
36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	6
36A	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36B	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36C	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36D	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTALS:	34	9	50	2	23	2	7	6	4	69	1	9	18	2	2	2	1	1	3	3	1	1	10	54

* **NOTES:**
-FOR INFORMATION ONLY: JOINT TIES ARE REQUIRED FOR ENDWALLS. TIE LAST THREE PIPE JOINTS (TWO TIES PER JOINT-6 TIES MINIMUM PER ENDWALL).
-JOINT TIES ARE NON-PAY ITEMS.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

RIPRAP & GEOTEXTILE FABRIC

STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
22+19	CTH LP, NB, LT	2.5	5
41+03	CTH LP, NB, LT	5	10
504+24	MANITOWOC RD, EB, RT	3.5	7
804+40	STORM OUTFALL	4	8
	UNDISTRIBUTED	5	10
	TOTAL	20	40

FENCE SAFETY

STATION	TO	STATION	LOCATION	616.0700.S LF	REMARKS
24+91	-	25+11	CTH LP, NB, RT	80	20-FT BY 20-FT SQUARE AROUND SURVEY MONUMENT
TOTALS				80	

MONUMENTS

STATION	LOCATION	621.0100 LANDMARK REFERENCE MONUMENTS EACH	SPV.0060.07 SECTION SURVEY MONUMENTS EACH	SPV.0105.03 PRESERVATION OF EXISTING MONUMENTS LS	SPV.0105.04 VERIFY AND RESTORING OF EXISTING MONUMENTS LS
46+27.64	CTH LP, NB	4	1	-	-
73+62.40	CTH LP, NB	4	1	-	-
	ENTIRE PROJECT	-	-	1	1
TOTALS		8	2	1	1

DUST CONTROL SURFACE TREATMENT

LOCATION	623.0200 S.Y.
UNDISTRIBUTED	50,000
TOTAL	50,000

EROSION CONTROL

LOCATION	628.1905 MOBILIZATIONS EACH	628.1910 MOBILIZATIONS EMERGENCY EACH
CTH LP	5	3
	5	3

PIPE UNDERDRAIN

STATION	LOCATION	310.0110 BASE AGGREGATE DENSE OPEN GRADED TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0406 WRAPPED 6-INCH LF	612.0600 UNDERDRAIN TRENCH LF	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY
22+37	CTH LP, NB, LT & RT	-	-	40	-	-
25+85	CTH LP, NB, LT & RT	-	-	40	-	-
27+68	CTH LP, NB, LT	-	-	20	-	-
28+15	CTH LP, NB, RT	-	-	20	-	-
30+85	CTH LP, NB, LT & RT	-	-	40	-	-
33+69	CTH LP, NB, LT & RT	-	-	40	-	-
35+67	CTH LP, NB, LT & RT	-	-	40	-	-
39+37	CTH LP, NB, LT & RT	-	-	40	-	-
43+02	CTH LP, NB, LT & RT	-	-	40	-	-
46+81	CTH LP, NB, LT	-	-	20	-	-
46+85	CTH LP, NB, RT	-	-	20	-	-
49+65	CTH LP, NB, LT & RT	-	-	40	-	-
52+97	CTH LP, NB, LT & RT	-	-	40	-	-
54+85	CTH LP, NB, LT & RT	-	-	40	-	-
56+86	CTH LP, NB, RT	-	-	20	-	-
59+94	CTH LP, NB, LT & RT	-	-	40	-	-
62+50	CTH LP, NB, LT & RT	-	-	40	-	-
66+00	CTH LP, NB, LT & RT	-	-	40	-	-
69+20	CTH LP, NB, LT	-	-	20	-	-
69+58	CTH LP, NB, RT	-	-	20	-	-
	ROUNDABOUT	8	215	-	295	96
75+68	CTH LP, NB, LT & RT	-	-	40	-	-
77+60	CTH LP, NB, LT & RT	-	-	40	-	-
81+60	CTH LP, NB, LT & RT	-	-	40	-	-
85+53	CTH LP, NB, RT	-	-	20	-	-
85+68	CTH LP, NB, LT	-	-	20	-	-
86+79	CTH LP, NB, LT	-	-	20	-	-
86+87	CTH LP, NB, RT	-	-	20	-	-
87+85	CTH LP, NB, LT	-	-	20	-	-
91+00	CTH LP, NB, LT & RT	-	-	40	-	-
93+50	CTH LP, NB, LT & RT	-	-	40	-	-
95+10	CTH LP, NB, RT	-	-	20	-	-
200+68	SONNY DR, LT	-	-	20	-	-
299+16	VILLA WAY, LT & RT	-	-	40	-	-
300+60	WOODLAND DR, LT & RT	-	-	40	-	-
399+44	WINNIPEG ST, LT & RT	-	-	40	-	-
497+49	MANITOWOC RD, EB, LT	-	-	20	-	-
497+50	MANITOWOC RD, EB, RT	-	-	20	-	-
501+51	MANITOWOC RD, EB, RT	-	-	20	-	-
501+67	MANITOWOC RD, EB, LT	-	-	20	-	-
599+42	ETHAN DR, LT	-	-	20	-	-
600+67	ETHAN DR, LT	-	-	20	-	-
TOTALS		8	215	1240	295	96

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3

TOPSOIL, FERTILIZER, SEED AND MULCH

STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	625.0105 TOPSOIL CY	627.0200 MULCHING SY	629.0210 FERTILIZER, TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING MIXTURE BORROW PIT LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL
20+18	-	34+00	CTH LP, NB	6,308	-	-	4.0	114	-	-	5.2
34+00	-	47+00	CTH LP, NB	4,566	-	-	2.9	82	-	-	3.8
47+00	-	59+00	CTH LP, NB	3,105	-	-	2.0	56	-	-	2.6
59+00	-	69+47	CTH LP, NB	3,395	-	-	2.1	61	-	-	2.8
69+47	-	76+23	CTH LP, NB	2,369	140	-	1.5	43	-	-	2.0
76+23	-	87+00	CTH LP, NB	3,464	-	-	2.2	62	-	-	2.9
87+00	-	96+42	CTH LP, NB	3,575	-	-	2.3	64	-	-	3.0
99+00	-	99+50	COMMUNITY WAY	111	-	-	0.1	2	-	-	0.1
198+80	-	199+50	SONNY DR	154	-	-	0.1	3	-	-	0.1
200+66	-	201+40	SONNY DR	202	-	-	0.1	4	-	-	0.2
298+35	-	299+38	VILLA WAY	267	-	-	0.2	5	-	-	0.2
300+67	-	303+75	WOODLAND RD	543	-	-	0.3	10	-	-	0.5
398+35	-	399+49	WINNIPEG ST	189	-	-	0.1	3	-	-	0.2
496+80	-	499+21.99	MANITOWOC RD, EB	1,484	-	-	0.9	27	-	-	1.2
500+61.36	-	503+00	MANITOWOC RD, EB	1,356	-	-	0.9	24	-	-	1.1
598+25	-	599+45	ETHAN DR	572	-	-	0.4	10	-	-	0.5
600+61	-	601+25	ETHAN DR	335	-	-	0.2	6	-	-	0.3
WASTE SITE				-	-	2,500	1.5	-	20	20	0.0
UNDISTRIBUTED				3,007	-	-	1.4	24	50	-	0.4
TOTALS				35,000	140	2,500	23	600	70	20	27

SILT FENCE

STATION	TO	STATION	LOCATION	628.1504 QUANTITY LF	628.1520 MAINTENANCE LF
20+18	-	34+00	CTH LP, NB	1,460	2,920
34+00	-	47+00	CTH LP, NB	1,800	3,600
47+00	-	59+00	CTH LP, NB	-	-
59+00	-	69+47	CTH LP, NB	75	150
69+47	-	76+23	CTH LP, NB	535	1,070
76+23	-	87+00	CTH LP, NB	-	-
87+00	-	96+42	CTH LP, NB	210	420
99+00	-	99+50	COMMUNITY WAY	90	180
198+80	-	199+50	SONNY DR	130	260
200+66	-	201+40	SONNY DR	-	-
298+35	-	299+38	VILLA WAY	-	-
300+67	-	301+70	WOODLAND RD	100	200
398+35	-	399+49	WINNIPEG ST	-	-
496+80	-	499+21.99	MANITOWOC RD, EB	60	120
500+61.36	-	503+00	MANITOWOC RD, EB	500	1,000
598+25	-	599+45	ETHAN DR	-	-
600+61	-	601+25	ETHAN DR	-	-
800+40	-	804+40		800	1,600
WASTE SITE				500	1,000
UNDISTRIBUTED				1,240	2,480
TOTALS				7,500	15,000

EROSION MAT

STATION	TO	STATION	LOCATION	628.2004 CLASS I TYPE B SY	628.2006 URBAN CLASS I TYPE A SY
20+18	-	34+00	CTH LP, NB	-	6,308
34+00	-	47+00	CTH LP, NB	14	4,552
47+00	-	59+00	CTH LP, NB	-	3,105
59+00	-	69+47	CTH LP, NB	14	3,381
69+47	-	76+23	CTH LP, NB	-	2,369
76+23	-	87+00	CTH LP, NB	-	3,464
87+00	-	96+42	CTH LP, NB	-	3,575
99+00	-	99+50	COMMUNITY WAY	-	111
198+80	-	199+50	SONNY DR	-	154
200+66	-	201+40	SONNY DR	-	202
298+35	-	299+38	VILLA WAY	-	267
300+67	-	303+75	WOODLAND RD	200	344
398+35	-	399+49	WINNIPEG ST	-	189
496+80	-	499+21.99	MANITOWOC RD, EB	370	1,114
500+61.36	-	503+00	MANITOWOC RD, EB	230	1,126
598+25	-	599+45	ETHAN DR	-	572
600+61	-	601+25	ETHAN DR	10	325
UNDISTRIBUTED				162	6,845
TOTAL				1,000	38,000

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
43+01	CTH LP, NB, RT	6
65+23	CTH LP, NB, RT	4
302+75	WOODLAND RD, RT	4
466+20	MANITOWOC RD, EB, LT	4
498+10	MANITOWOC RD, EB, RT	4
504+29	MANITOWOC RD, EB, LT	6
505+10	MANITOWOC RD, EB, LT	4
505+33	MANITOWOC RD, EB, RT	4
	UNDISTRIBUTED	9
	TOTAL	45

TRACKING PADS

LOCATION	628.7560 EACH
UNDISTRIBUTED	10
TOTAL	10

ROCK BAGS

STATION	LOCATION	628.7570 EACH	COMMENTS
30+00	CTH LP, NB, LT	6	SILT FENCE BREAK
39+50	CTH LP, NB, LT	6	SILT FENCE BREAK
303+75	WOODLAND RD, RT	10	DITCH CHECK
494+75	MANITOWOC RD, EB, LT & RT	30	DITCH CHECK
496+00	MANITOWOC RD, EB, RT	15	DITCH CHECK
497+00	MANITOWOC RD, EB, RT	15	DITCH CHECK
	UNDISTRIBUTED	18	DITCH CHECK
TOTAL		100	

TREES & SHRUBS

LOCATION	632.0101.01 FLOWERING CRABAPPLE (FC) EACH	632.0201.01 MANEY JUNIPER (JM) EACH	SPV.0035.01 PLANTING MIXTURE CY	SPV.0180.01 SHREDDED HARDWOOD BARK MULCH SY	
RAB CENTER ISLAND	3	15	60	177	PLANT MIXTURE 1 FT THICK.
TOTALS	3	15	60	177	

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INLET PROTECTION

STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
35A	22+37	CTH LP, NB, LT	1	-	1	-
35B	22+37	CTH LP, NB, RT	1	-	1	-
32A	23+81	CTH LP, NB, RT	1	1	-	-
31A	25+85	CTH LP, NB, RT	1	-	-	1
31B	25+85	CTH LP, NB, LT	1	-	-	1
31F	25+90	CTH LP, NB, LT	1	-	-	1
31G	29+90	CTH LP, NB, RT	1	-	-	1
30B	27+68	CTH LP, NB, LT	1	-	1	-
30A	28+15	CTH LP, NB, RT	1	-	1	-
29D	30+00	CTH LP, NB, RT	1	1	-	-
29A	30+85	CTH LP, NB, RT	1	-	1	-
29B	30+85	CTH LP, NB, LT	1	-	1	-
28A	33+69	CTH LP, NB, RT	1	-	1	-
29B	33+69	CTH LP, NB, LT	1	-	1	-
27A	35+67	CTH LP, NB, RT	1	-	1	-
27B	35+67	CTH LP, NB, LT	1	-	1	-
25A	39+37	CTH LP, NB, RT	1	-	1	-
25B	39+37	CTH LP, NB, LT	1	-	1	-
24A	43+02	CTH LP, NB, RT	1	-	1	-
24B	43+02	CTH LP, NB, LT	1	-	1	-
22E	46+81	CTH LP, NB, LT	1	-	1	-
22C	46+85	CTH LP, NB, RT	1	-	1	-
20A	49+65	CTH LP, NB, RT	1	-	1	-
20B	49+65	CTH LP, NB, LT	1	-	1	-
19A	52+97	CTH LP, NB, RT	1	-	1	-
19B	52+97	CTH LP, NB, LT	1	-	1	-
19C	52+97	CTH LP, NB, RT	1	1	-	-
18A	54+85	CTH LP, NB, RT	1	-	1	-
18B	54+85	CTH LP, NB, LT	1	-	1	-
18C	54+85	CTH LP, NB, RT	1	1	-	-
17A	56+86	CTH LP, NB, RT	1	-	1	-
17B	56+86	CTH LP, NB, RT	1	1	-	-
15A	59+94	CTH LP, NB, RT	1	-	-	1
15B	59+94	CTH LP, NB, LT	1	-	-	1
14A	62+50	CTH LP, NB, RT	1	-	1	-
14B	62+50	CTH LP, NB, LT	1	-	1	-
12A	66+00	CTH LP, NB, RT	1	-	1	-
12B	66+00	CTH LP, NB, LT	1	-	1	-
11C	69+20	CTH LP, NB, LT	1	-	1	-
11D	69+21	CTH LP, NB, LT	1	1	-	-
11	69+55	CTH LP, NB, LT	1	-	1	-
11B	69+56	CTH LP, NB, LT	1	-	1	-
11A	69+58	CTH LP, NB, RT	1	-	1	-
9	1+15	ROUNDABOUT	1	-	-	1
9A	1+21	ROUNDABOUT	1	-	1	-

INLET PROTECTION (CONTINUED)

STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
8	73+57	CTH LP, NB, LT	1	-	1	-
7	75+64	CTH LP, NB, LT	1	-	-	1
7A	75+64	CTH LP, NB, RT	1	-	-	1
7B	75+64	CTH LP, NB, LT	1	-	-	1
7C	75+64	CTH LP, NB, LT	1	-	-	1
7D	75+68	CTH LP, NB, LT	1	-	-	1
7E	75+68	CTH LP, NB, RT	1	-	-	1
6A	77+60	CTH LP, NB, RT	1	-	1	-
6B	77+60	CTH LP, NB, LT	1	-	1	-
5A	81+60	CTH LP, NB, RT	1	-	1	-
5B	81+60	CTH LP, NB, LT	1	-	1	-
4A	85+53	CTH LP, NB, RT	1	-	1	-
4B	85+68	CTH LP, NB, LT	1	-	1	-
3B	86+79	CTH LP, NB, LT	1	-	1	-
3A	86+87	CTH LP, NB, RT	1	-	1	-
2A	87+85	CTH LP, NB, LT	1	-	1	-
2B	87+90	CTH LP, NB, LT	1	-	1	-
1A	91+00	CTH LP, NB, RT	1	-	1	-
1B	91+00	CTH LP, NB, LT	1	-	1	-
1D	93+50	CTH LP, NB, RT	1	-	1	-
1E	93+50	CTH LP, NB, LT	1	-	1	-
1F	95+10	CTH LP, NB, RT	1	-	1	-
EXIST	96+40	CTH LP, NB, LT	1	-	1	-
EXIST	96+41	CTH LP, NB, LT	1	-	1	-
EXIST	96+41	CTH LP, NB, RT	1	-	1	-
28C	200+68	SONNY DR, LT	1	-	-	1
22	299+16	VILLA WAY, RT	1	-	-	1
22A	299+16	VILLA WAY, LT	1	-	-	1
22A	300+60	WOODLAND DR, LT	1	-	-	1
22D	300+60	WOODLAND DR, RT	1	-	-	1
16A	399+44	WINNIPEG ST, RT	1	-	-	1
16B	399+44	WINNIPEG ST, LT	1	-	-	1
36C	497+49	MANITOWOC RD, EB, LT	1	-	-	1
36D	497+49	MANITOWOC RD, EB, LT	1	-	1	-
36B	497+50	MANITOWOC RD, EB, LT	1	-	1	-
36A	497+50	MANITOWOC RD, EB, RT	1	-	-	1
9B	501+51	MANITOWOC RD, EB, LT	1	-	1	-
9C	501+51	MANITOWOC RD, EB, RT	1	-	-	1
9E	501+65	MANITOWOC RD, EB, LT	1	-	1	-
9D	501+67	MANITOWOC RD, EB, LT	1	-	-	1
3F	599+42	ETHAN DR, LT	1	-	-	1
3C	600+67	ETHAN DR, LT	1	-	-	1
31C	800+86	STORM OUTFALL	1	1	-	-
31E	803+92	STORM OUTFALL	1	1	-	-
	TOTALS:		89	8	55	26

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1	USH 10/STH 114	J1-1		---	---	---	---	---	---	1	1	
1A	USH 10/STH 114	J1-1		---	---	---	---	---	---	1	1	
2	"	R6-2L	24" X 30"	5.00	---	---	---	1	---	1	1	
3	"	J3-2	48" X 57"	19.00	---	---	---	---	---	---	---	SEE PLAN SHEET
3A	N. OF USH 10/STH 114	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
4	"	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
4A	"	R3-17B	30" X 12"	2.50	---	---	1	---	---	---	---	
4B	"	R7-1		---	---	1	---	---	1	---	1	
4C	"	SP		---	---	---	---	---	1	---	---	MOUNT BELOW SIGN #4B
4D	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
5	S. OF COMMUNITY WAY	R3-9B	24" X 36"	6.00	---	---	---	1	---	---	---	
5A	"	R3-9C	24" X 6"	1.00	---	---	---	---	---	---	---	MOUNT ABOVE SIGN #5
6	S. OF COMMUNITY WAY	R3-8A	36" X 30"	7.50	---	---	---	1	---	---	---	
7	COMMUNITY WAY	R1-1	30" X 30"	5.18	---	---	1	---	---	---	---	
8	N. OF COMMUNITY WAY	R3-9B	24" X 36"	6.00	---	---	---	1	---	---	---	
8A	"	R3-9D	24" X 6"	1.00	---	---	---	---	---	---	---	MOUNT ABOVE SIGN #6
9	"	M1-5A		---	---	---	---	---	---	1	1	REMOVE W8-8 ALSO
10	N. OF COMMUNITY WAY	W3-3	36" X 36"	---	9.00	---	1	---	---	1	1	
11	S. OF SONNY DRIVE	J1-3		---	---	---	---	---	---	1	2	
12	"	J1-2	48" X 39"	13.00	---	---	1	---	---	---	---	SEE PLAN SHEET
12A	"	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
13	PRIVATE DRIVE	R1-1	30" X 30"	5.18	---	---	1	---	---	---	---	
14	SONNY DRIVE	R1-1	30" X 30"	5.18	---	---	1	---	---	---	---	
14A	N. OF SONNY DRIVE	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
15	S. OF VILLA WAY	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
16	"	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
16A	"	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
17	VILLA WAY	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
18	WOODLAND ROAD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
19	N. OF WOODLAND ROAD	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
20	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
20A	"	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
20B	S. OF WINNIPEG STREET	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
21	WINNIPEG STREET	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
21A	N. OF WINNIPEG STREET	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
22	S. OF MANITOWOC ROAD	W2-6	30" X 30"	---	6.25	---	---	1	---	---	---	
22A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	---	---	15 MPH, MOUNT BELOW SIGN #22
23	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
24	"	R4-7	24" X 30"	5.00	---	---	1	---	---	---	---	
25	"	W3-2	36" X 36"	---	9.00	---	1	---	---	---	---	
25A	"	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
26	"	D1-62	78" X 15"	8.13	---	2	---	---	---	---	---	SEE SIGN DETAIL
	PAGE SUBTOTALS			182.21	26.50	3	26	5	2	13	15	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
27	S. OF MANITOWOC ROAD	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	
27A	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #27
28	"	R1-2	36" X 31"	3.88	---	---	1	---	---	---	---	
28A	"	R1-54	24" X 15"	3.88	---	---	1	---	---	---	---	MOUNT BELOW SIGN #28
29	VACANT			---	---	---	---	---	---	---	---	
30	MANITOWOC RD., W. OF CTH LP	W2-6	30" X 30"	---	6.25	---	---	1	---	---	---	
30A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	---	---	15 MPH, MOUNT BELOW SIGN #30
31	"	W3-1		---	---	---	---	---	---	1	1	
32	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	45 MPH
33	"	W3-2	36" X 36"	---	9.00	---	1	---	---	---	---	
34	"	R4-7	24" X 30"	5.00	---	---	1	---	---	---	---	
35	MANITOWOC RD., W. OF CTH LP	R2-1		---	---	---	---	---	---	1	1	
36	"	D1-62	78" X 15"	8.75	---	2	---	---	---	---	---	SEE SIGN DETAIL
37	"	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	
37A	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #37
38	"	R1-2	36" X 31"	3.88	---	---	1	---	---	---	---	
38A	"	R1-54	24" X 15"	2.50	---	---	---	---	---	---	---	MOUNT BELOW SIGN #38
39	VACANT			---	---	---	---	---	---	---	---	
40	ROUNDABOUT CENTER	R6-1R	54" X 18"	6.75	---	---	2	---	---	---	---	
40A	"	R6-4B	60" X 24"	10.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #40
40B	"	R1-1		---	---	---	---	---	---	1.00	1.00	
41	"	R6-1R	54" X 18"	6.75	---	---	2	---	---	---	---	
41A	"	R6-4B	60" X 24"	10.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #41
42	"	R6-1R	54" X 18"	6.75	---	---	2	---	---	---	---	
42A	"	R6-4B	60" X 24"	10.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #42
43	MANITOWOC RD., E. OF CTH LP	R1-2	38" X 31"	3.88	---	---	1	---	---	---	---	
43A	"	R1-54	24" X 15"	2.50	---	---	---	---	---	---	---	MOUNT BELOW SIGN #43
44	"	R1-1		---	---	---	---	---	---	1	1	
45	"	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	
45A	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #45
46	"	R1-1		---	---	---	---	---	---	1	1	
47	"	D1-62	78" X 15"	8.13	---	2	---	---	---	---	---	SEE SIGN DETAIL
48	"	R4-7	24" X 30"	5.00	---	---	1	---	---	---	---	
49	"	R2-1		---	---	---	---	---	---	1	1	
50	"	R7-2D	18" X 24"	3.00	---	---	1	---	---	1	---	3:00 AM TO 7:00 AM
51	"	W3-2	36" X 36"	---	9.00	---	1	---	---	---	---	
52	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	
53	"	W2-6	30" X 30"	---	6.25	---	---	1	---	---	---	
53A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	---	---	MOUNT BELOW SIGN #53
54	VACANT			---	---	---	---	---	---	---	---	
55	MANITOWOC RD., E. OF CTH LP	W3-1		---	---	---	---	---	---	1	1	
56	ROUNDABOUT CENTER	R6-1R	54" X 18"	6.75	---	---	2	---	---	---	---	
56A	"	R6-4B	60" X 24"	10.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #56
	PAGE SUBTOTALS			154.04	35.00	4	19	5	0	8	7	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
57	N. OF MANITOWOC ROAD	R1-2	38" X 31"	3.88	---	---	1	---	---	---	---	
57A	"	R1-54	24" X 15"	2.50	---	---	---	---	---	---	---	MOUNT BELOW SIGN #57
58	"	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	
58A	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #58
59	"	D1-62	78" X 15"	8.13	---	2	---	---	---	---	---	SEE SIGN DETAIL
59A	"	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
60	"	R2-1		---	---	---	---	---	---	1	1	
61	"	W3-2	36" X 36"	---	9.00	---	1	---	---	---	---	
62	N. OF MANITOWOC ROAD	R4-7	24" X 30"	5.00	---	---	1	---	---	---	---	
63	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	35 MPH
63A	"	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
64	ETHAN DRIVE	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
65	PRIVATE ROAD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
65A	N. OF ETHAN DRIVE	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
66	S. OF CTH AP	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	35 MPH
67	S. OF CTH AP	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	35 MPH
68	S. OF CTH AP	W2-6	30" X 30"	---	---	---	---	---	1	---	---	MOVE 12-2 AND W13-1 ALSO
68A	"	12-2		---	---	---	---	---	1	---	---	MIDWAY ROAD
68B	"	W13-1	18" X 18"	---	---	---	---	---	1	---	---	15 MPH
69	"	JV		---	---	---	---	---	---	1	1	
70	"	J1-1	24" X 39"	6.50	---	---	1	---	---	---	---	SEE PLAN SHEET
71	"	R3-17	30" X 24"	5.00	---	---	1	---	---	---	---	
72	"	J4-1		---	---	---	---	---	---	1	1	
73	CTH AP, W. OF CTH LP	J1-1		---	---	---	---	---	---	1	1	
74	CTH AP, E. OF CTH LP	J1-1		---	---	---	---	---	---	1	1	
	PAGE SUBTOTALS			80.25	9.00	2	13	1	3	7	7	
	PROJECT TOTALS			**416.49**	**70.50**	**9**	**58**	**11**	**5**	**28**	**29**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TRAFFIC CONTROL SUMMARY

LOCATION	APPROX. SERVICE DAYS	643.0300 DRUMS NO. IN SERVICE	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III NO. IN SERVICE	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A NO. IN SERVICE	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C NO. IN SERVICE	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS NO. IN SERVICE	643.0800 ARROW BOARDS DAYS	643.0900 SIGNS NO. IN SERVICE	643.0900 SIGNS DAYS	643.1050 SIGNS PMCS NO. IN SERVICE	643.1050 SIGNS PMCS DAYS	643.1070 CONES 42-INCH NO. IN SERVICE	643.1070 CONES 42-INCH DAYS	COMMENTS
USH 10/STH 114 INTERSECTION																		
CTH LP, NB & SB	7	-	-	-	-	-	-	-	-	-	-	-	-	2	14	-	-	BEFORE CLOSURE OF ROADWAY
USH 10/STH 114 EB & WB	7	-	-	-	-	-	-	-	-	-	-	-	-	2	14	-	-	BEFORE CLOSURE OF ROADWAY
FIRELANE 8 RD	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	-	BEFORE CLOSURE OF ROADWAY
USH 10/STH 114 AT CTH LP	21	70	1470	23	483	28	588	14	294	2	42	22	462	-	-	-	-	PLAN DETAIL & SDD "TRAFFIC CONTROL LANE CLOSURES"
STATION 23+77	21	-	-	5	105	6	126	-	-	-	-	1	21	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL D
CTH LP AT CTH AP	21	-	-	1	21	2	42	-	-	-	-	1	21	-	-	-	-	ROAD CLOSED 1.4 MILES AHEAD
CTH LP AT WOODLAND RD/VILLA WAY	21	-	-	1	21	2	42	-	-	-	-	1	21	-	-	-	-	ROAD CLOSED 0.4 MILES AHEAD
STATION 23+77 TO WOODLAND ROAD/VILLA WAY																		
CTH LP SB	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	-	BEFORE TRAFFIC CHANGE
CTH LP AT SONNY DR	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	-	BEFORE TRAFFIC CHANGE
STATION 23+77	21	-	-	5	105	6	126	-	-	-	-	1	21	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL A & D
CTH LP AT WOODLAND RD/VILLA WAY	21	-	-	2	42	4	84	-	-	-	-	4	84	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL A & E
SONNY DR AT CTH LP	21			7	147	10	210					2	42					SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" - DETAIL 3 (NORTH)/DETAIL 2 (SOUTH)
SONNY DR AT CTH LP	21	-	-	-	-	-	-	-	-	-	-	2	42	-	-	-	-	TEMPORARY STOP SIGNS
COMMUNITY WAY AT CTH LP	21			5	105	6	126	-	-	-	-	1	21					SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL D
CTH LP AT CTH AP	21	-	-	1	21	2	42	-	-	-	-	1	21	-	-	-	-	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY
CTH LP AT MANITOWOC RD	21	-	-	1	21	2	42	-	-	-	-	1	21	-	-	-	-	ROAD CLOSED 0.5 MILE AHEAD LOCAL TRAFFIC ONLY
CTH LP AT USH 10/STH 114	21	-	-	1	21	2	42	-	-	-	-	1	21	-	-	-	-	ROAD CLOSED 0.1 MILE AHEAD LOCAL TRAFFIC ONLY
UNDISTRIBUTED	21	30	630	-	-	-	-	-	-	-	-	-	-	-	-	30	630	USE TO MAINTAIN LOCAL ACCESS TO PROPERTIES
COMMUNITY WAY TO WOODLAND ROAD/VILLA WAY																		
CTH LP AT SONNY DR	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	-	BEFORE TRAFFIC CHANGE
STATION 27+75	31	-	-	5	155	6	186	-	-	-	-	1	31	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL A & D
CTH LP AT WOODLAND RD/VILLA WAY	31	-	-	5	155	6	186	-	-	-	-	1	31	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL A & D
SONNY DR AT CTH LP	31			5	155	6	186	-	-	-	-	1	31					SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL D
COMMUNITY WAY AT CTH LP	31	-	-	-	-	-	-	-	-	-	-	1	31	-	-	-	-	TEMPORARY STOP SIGN
CTH LP AT CTH AP	31	-	-	1	31	2	62	-	-	-	-	1	31	-	-	-	-	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY
CTH LP AT MANITOWOC RD	31	-	-	1	31	2	62	-	-	-	-	1	31	-	-	-	-	ROAD CLOSED 0.5 MILE AHEAD LOCAL TRAFFIC ONLY
CTH LP AT USH 10/STH 114	31	-	-	1	31	2	62	-	-	-	-	1	31	-	-	-	-	ROAD CLOSED 0.1 MILE AHEAD LOCAL TRAFFIC ONLY
UNDISTRIBUTED	31	30	930	-	-	-	-	-	-	-	-	-	-	-	-	30	930	USE TO MAINTAIN LOCAL ACCESS TO PROPERTIES

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

TRAFFIC CONTROL SUMMARY (CONTINUED)

LOCATION	APPROX. SERVICE DAYS	643.0300 DRUMS NO. IN SERVICE	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III NO. IN SERVICE	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A NO. IN SERVICE	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C NO. IN SERVICE	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS NO. IN SERVICE	643.0800 ARROW BOARDS DAYS	643.0900 SIGNS NO. IN SERVICE	643.0900 SIGNS DAYS	643.1050 SIGNS PMCS NO. IN SERVICE	643.1050 SIGNS PMCS DAYS	643.1070 CONES 42-INCH NO. IN SERVICE	643.1070 CONES 42-INCH DAYS	COMMENTS
WOODLAND ROAD/VILLA WAY TO ETHAN DRIVE																		
CTH LP AT MANITOWOC RD	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	-	BEFORE ROADWAY CLOSURE
MANITOWOC RD (WEST) AT CTH LP	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	-	BEFORE ROADWAY CLOSURE
MANITOWOC RD (EAST) AT CTH LP	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	-	BEFORE ROADWAY CLOSURE
CTH LP AT WOODLAND RD/VILLA WAY	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	-	BEFORE ROADWAY CLOSURE
CTH LP AT WOODLAND RD/VILLA WAY	7	-	-	-	-	-	-	-	-	-	-	-	-	2	14	-	-	DURING BEGINNING OF ONE LANE ROADWAY
CTH LP AT ETHAN DR	80	-	-	2	160	4	320	-	-	-	-	4	320	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL A & E
ETHAN DR (WEST) AT CTH LP	80	-	-	5	400	6	480	-	-	-	-	1	80	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL D
CTH LP AT WOODLAND RD/VILLA WAY	80	-	-	7	560	10	800					2	160	-	-	-	-	SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" - DETAIL 3 (N)/DETAIL 2 (S)
CTH LP AT WOODLAND RD/VILLA WAY	14	15	210	1	14	6	84	8	112	-	-	12	168	-	-	-	-	SDD "TRAFFIC CONTROL ONE LANE ROAD STOP CONDITION" - USE DURING CONCRETE PAVING
CTH LP AT SONNY DR	80	-	-	5	400	6	480	-	-	-	-	1	80	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL D
CTH LP AT CTH AP	80	-	-	1	80	2	160	-	-	-	-	1	80	-	-	-	-	ROAD CLOSED 0.5 MILE AHEAD LOCAL TRAFFIC ONLY
CTH LP AT USH 10/STH 114	80	-	-	1	80	2	160	-	-	-	-	1	80	-	-	-	-	ROAD CLOSED 0.2 MILE AHEAD LOCAL TRAFFIC ONLY
MANITOWOC RD AT PLANK RD	80	-	-	1	80	2	160	-	-	-	-	1	80	-	-	-	-	ROAD CLOSED 1.5 MILES AHEAD LOCAL TRAFFIC ONLY
MANITOWOC RD AT MCKAYLA DR	80	-	-	1	80	2	160	-	-	-	-	1	80	-	-	-	-	ROAD CLOSED 0.1 MILE AHEAD LOCAL TRAFFIC ONLY
MANITOWOC RD AT CTH N	80	-	-	1	80	2	160	-	-	-	-	1	80	-	-	-	-	ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY
MANITOWOC RD AT N. COOP RD	80	-	-	1	80	2	160	-	-	-	-	1	80	-	-	-	-	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY
UNDISTRIBUTED	80	30	2400	-	-	-	-	-	-	-	-	-	-	-	-	30	2400	USE TO MAINTAIN LOCAL ACCESS TO PROPERTIES
ETHAN DRIVE TO CTH AP																		
CTH LP AT ETHAN DR	30	-	-	5	150	6	180	-	-	-	-	1	30	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL D
CTH LP AT CTH AP	30	-	-	5	150	6	180	-	-	-	-	1	30	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL D
ETHAN DR (WEST) AT CTH LP	30	-	-	5	150	6	180	-	-	-	-	4	120	-	-	-	-	SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" - DETAIL A & D
CTH LP AT USH 10/STH 114	30	-	-	1	30	2	60	-	-	-	-	1	30	-	-	-	-	ROAD CLOSED 1.2 MILES AHEAD LOCAL TRAFFIC ONLY
CTH LP AT MANITOWOC RD	30	-	-	1	30	2	60	-	-	-	-	1	30	-	-	-	-	ROAD CLOSED 0.2 MILES AHEAD LOCAL TRAFFIC ONLY
TOTALS			5640		4174		5998		406		42		2543		98		3960	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

MARKING

STATION	TO	STATION	LOCATION	646.1020 EPOXY 4-INCH YELLOW LF	646.1020 EPOXY 4-INCH WHITE LF	646.3020 EPOXY 8-INCH WHITE LF	646.5020 ARROWS EPOXY EACH	646.5120 WORDS EPOXY EACH	646.5220 SYMBOL EPOXY EACH	646.6120 STOP LINE EPOXY 18-INCH LF	646.6220 YIELD LINE EPOXY 18-INCH LF	646.7120 DIAGONAL EPOXY 12-INCH LF	646.7420 EPOXY TRANSVERSE LINE 6-INCH LF	646.8120 CURB EPOXY LF	646.8220 ISLAND NOSE EPOXY EACH	646.8305 PARKING STALL PAINT LF	646.9000 REMOVAL LINE 4-INCH LF	649.0150 TEMPORARY REMOVABLE TAPE 4-INCH LF	REMARKS
20+18	-	33+00	CTH LP, NB	2,137	1,395	574	15	2	7	30	-	-	593	-	-	-	-	-	
33+00	-	46+50	CTH LP, NB	2,560	2,198	540	21	2	11	-	-	-	131	-	-	-	-	-	
46+50	-	57+75	CTH LP, NB	2,656	1,794	293	26	1	8	-	-	-	253	-	-	225	-	-	
57+75	-	69+47	CTH LP, NB	2,618	2,268	-	18	-	10	-	-	-	-	-	-	-	-	-	
69+47	-	76+23	CTH LP, NB	164	860	250	4	-	4	-	4	-	140	20	4	-	-	-	
76+23	-	87+00	CTH LP, NB	2,362	1,878	150	16	1	8	-	-	-	-	-	-	-	-	-	
87+00	-	96+42	CTH LP, NB	2,139	1,870	148	16	1	8	-	-	-	110	-	-	-	-	-	
99+00	-	99+50	COMMUNITY WAY	-	-	-	-	-	-	25	-	-	132	-	-	-	-	-	
198+80	-	199+50	SONNY DR	-	-	-	-	-	-	25	-	-	132	-	-	-	-	-	
200+66	-	201+40	SONNY DR	-	-	-	-	-	-	26	-	-	137	-	-	-	-	-	
298+35	-	299+38	VILLA WAY	-	-	-	-	-	-	23	-	-	96	-	-	-	-	-	
300+67	-	301+70	WOODLAND RD	238	-	-	-	-	-	26	-	-	137	-	-	-	-	-	
398+35	-	399+49	WINNIPEG ST	-	-	-	-	-	-	23	-	-	98	-	-	-	-	-	
496+80	-	499+21.99	MANITOWOC RD, EB	890	959	73	-	-	-	-	-	45	73	10	1	-	-	-	
500+61.36	-	503+00	MANITOWOC RD, EB	967	817	72	-	-	-	-	-	55	73	10	1	-	-	-	
598+25	-	599+45	ETHAN DR	-	-	-	-	-	-	24	-	-	120	-	-	-	-	-	
600+61	-	601+25	ETHAN DR	-	-	-	-	-	-	28	-	-	155	-	-	-	-	-	
UNDISTRIBUTED			USH 10/STH 114	-	-	-	-	-	-	-	-	-	-	-	-	-	175	660	LANE CLOSURE, STAGE 1
TOTALS				30,770		2,100	116	7	56	230	4	100	2,380	40	6	225	175	660	

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4000 STORM SEWER EACH	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB, GUTTER, AND CURB AND GUTTER LF	650.7000 CONCRETE PAVEMENT LF	650.8500 ELECTRICAL INSTALLATIONS LS	650.9000 CURB RAMPS EACH	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
20+18	-	34+00	CTH LP, NB	25	1,175	-	-	1,175	1	17	1	1,175
34+00		47+00	CTH LP, NB	17	1,300	-	-	1,300	-	6	-	1,300
47+00		59+00	CTH LP, NB	17	1,200	-	-	1,200	-	4	-	1,200
59+00		69+47	CTH LP, NB	13	1,047	-	-	1,047	-	-	-	1,047
69+47		76+23	CTH LP, NB	13	676	-	-	676	-	8	-	676
76+23		87+00	CTH LP, NB	12	1,077	-	-	1,077	-	6	-	1,077
87+00		96+42	CTH LP, NB	10	942	-	-	942	-	-	-	942
99+00		99+50	COMMUNITY WAY	-	50	50	-	-	-	-	-	50
198+80	-	199+50	SONNY DRIVE	-	70	70	140	-	-	-	-	70
200+66	-	201+40	SONNY DRIVE	1	74	74	150	-	-	-	-	74
298+35	-	299+38	VILLA WAY	2	103	103	208	-	-	-	-	103
300+67	-	301+70	WOODLAND ROAD	-	103	103	208	-	-	-	-	103
398+35	-	399+49	WINNIPEG STREET	2	114	114	204	-	-	-	-	114
496+80	-	499+21.99	MANITOWOC ROAD, EB	5	242	242	410	-	-	4	-	242
500+61.36	-	503+00	MANITOWOC ROAD, EB	9	239	239	486	-	-	4	-	239
598+25	-	599+45	ETHAN DRIVE	1	120	120	240	-	-	-	-	120
600+61	-	601+25	ETHAN DRIVE	3	64	64	128	-	-	-	-	64
TOTALS				130	8,596	1,179	2,174	7,417	1	49	1	8,596

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

Conduit Rigid Nonmetallic Schedule 40

Location			
USH 10 & CTH LP (S08-0999)		652.0225	652.0235
		2-Inch	3-Inch
FROM	TO	LF	LF
PB1	PB2		10
PB2	SB6	20	
PB3	PB4		20
PB3	PB4		20
PB4	PB6	30	
PB4	SB11	20	
PB4	SB13	5	
PB4	PB5		10
PB4	PB5		10
PB5	SB12	15	
	TOTALS	90	70

Pull Boxes

	Non-Conductive
	653.0164
	24x42-Inch
LOCATION	EACH
USH 10 & CTH LP (S08-0999)	3
TOTALS	3

Adjusting Pull Boxes

	653.0900
LOCATION	EACH
USH 10 & CTH LP (S08-0999)	1
TOTALS	1

Removing Pull Boxes

	653.0905
LOCATION	EACH
USH 10 & CTH LP (S08-0999)	2
TOTALS	2

Concrete Bases

	654.0101	654.0102
	Type 1	Type 2
LOCATION	EACH	EACH
USH 10 & CTH LP (S08-0999)	2	1
TOTALS	2	1

Removing Concrete Bases

	204.0195
LOCATION	EACH
USH 10 & CTH LP (S08-0999)	2
TOTAL	2

Loop Detectors

LOCATION	LOOP NO.	# OF TURNS	652.0800 Conduit LF	655.0700 Lead In Cable LF	655.0800 Wire LF
USH 10 & CTH LP (S08-0999)					
	11			260	
	12			260	
	41	2	100	160	210
	42	2	130	160	270
	61			560	
	62			720	
	63			850	
		TOTALS	230	2,970	480

TRAFFIC SIGNALS

	657.0100	657.0420	657.0430	658.0173	658.0416
	Pedestal Bases	Traffic Signal Standard Aluminum 13-FT	Traffic Signal Standard Aluminum 10-FT	Traffic Signal Face 3S 12-Inch	Pedestrian Signal Face 16-Inch
LOCATION	EACH	EACH	EACH	EACH	EACH
USH 10 & CTH LP (S08-0999)	2	1	1	3	4
TOTALS	2	1	1	3	4

TRAFFIC SIGNALS

	658.0500	658.5069	SPV.0105.01	SPV.0105.02
	Pedestrian Push Buttons	Signal Mounting Hardware (USH 10 & CTH LP)	Remove Signal (USH 10 & CTH LP)	Relocate Signal Pole/ Remove Signal Face (USH 10 & CTH LP)
LOCATION	EACH	LS	LS	LS
USH 10 & CTH LP (S08-0999)	5	1	1	1
TOTALS	5	1	1	1

QUANTITIES PROVIDED BY WISDOT NE REGION

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

TRAFFIC SIGNAL CABLE				
USH 10 & CTH LP (S08-0999)	655.0230	655.0260		655.0230
				Base to Head
	5-14	12-14	HEAD	5-14
	AWG	AWG	NO.	AWG
From CB1 to	LF	LF		LF
SB6		420	12	Existing
SB6	420		20	15
SB8	350		Button	5
SB9		300	10	Existing
SB10		220	3	Existing
SB11		170	13	15
			14	15
SB11	170		18	15
SB12	70		15	Existing
SB12	70		17	15
SB13	160		19	15
Sub Total	1,240	1,110		95
TOTALS	1,335	1,110		

NB & EB

Signal Indication		Conductor Color
Red	=	Red
Yellow	=	Orange
Green	=	Green

SB & WB

Signal Indication		Conductor Color
Red	=	Red w/Black
Yellow	=	Orange w/Black
Green	=	Green w/Black

Pedestrian Indication		Conductor Color
Walk	=	Green
Don't Walk	=	Red
Button	=	Black & Orange

NOTE: Lead-in Cable shall be pulled in separately from other cables/wires and enter the Control Cabinet in a separate conduit if provided.

Electrical Wire Traffic Signals 10 AWG			
LOCATION		655.0515	655.0515
USH 10 & CTH LP (S08-0999)			
		(Grounded Conductor)	(Equipment Grounding Conductor)
		(White)	(Green)
		LF	LF
FROM	TO		
SB5	SB6	160	160
SB6	SB7	130	130
SB10	SB11	120	120
SB11	SB13	50	50
SB13	SB12	150	150
SB12	PB5		40
SB12	CB1	70	70
	Subtotals	680	720
	Totals	1,400	

Signal Lighting Cable		
		655.0305
LOCATION		Type UF
USH 10 & CTH LP (S08-0999)		2-12 AWG
		Grounded
FROM	TO	LF
CB1	SB9	300
CB1	SB12	70
	TOTAL	370

QUANTITIES PROVIDED BY WISDOT NE REGION

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

SAWING PAVEMENT

STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
20+40	CTH LP, NB, LT	69	6	MULTI-USE TRAIL CROSSING
21+90	CTH LP, NB, LT	12	3	
21+90	CTH LP, NB, RT	11	3	
95+30	CTH LP, NB	-	263	
198+80	SONNY DR	55	5	
201+44	SONNY DR	40	5	
298+35	VILLA WAY	32	5	
301+70	VILLA WAY	37	3	
398+50	WINNIPEG ST	53	5	
494+75	MANITOWOC ST	24	-	
505+45	MANITOWOC ST	24	-	
598+25	ETHAN DR	31	5	
601+25	ETHAN DR	33	5	
23+55	CTH LP, NB, RT	30	-	PE
24+13	CTH LP, NB, RT	25	-	PARKING LOT
48+25	CTH LP, NB, RT	272	-	PARKING LOT
51+70	CTH LP, NB, RT	220	-	PARKING LOT
53+96	CTH LP, NB, RT	-	24	PE
56+23	CTH LP, NB, RT	23	-	PE
60+62	CTH LP, NB, LT	35	-	PE
60+82	CTH LP, NB, RT	23	-	PE
61+65	CTH LP, NB, LT	12	-	PE
64+66	CTH LP, NB, LT	-	25	PE
67+43	CTH LP, NB, LT	-	18	PE
398+90	WINNIPEG ST, LT	-	31	PE
495+94	MANITOWOC ST, LT	26	-	PE
	TOTALS	1,087	406	

UTILITY LINE OPENINGS

STATION	LOCATION	SPV.0060.01 EACH
UNDISTRIBUTED	CTH LP	10
TOTAL		10

DITCHING

STATION	TO	STATION	LOCATION	SPV.0090.07 LF	COMMENT
301+70	-	302+75	MANITOWOC RD, EB, RT	105	DITCH TO DRAIN EAST TO STATION 303+80
303+10	-	303+75	MANITOWOC RD, EB, RT	65	DITCH TO DRAIN EAST TO STATION 303+81
	TOTAL			170	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

RECONSTRUCTING SANITARY MANHOLE

CATEGORY	MANHOLE	STATION	LOCATION	VERTICAL ADJUSTMENT	ADJUSTMENT DESCRIPTION	SPV.0060.02 EACH
0020	1057	26+51	CTH LP, NB, RT	-0.79	SPIN CONE EAST; REMOVE 8" RINGS; NEW 7" CASTING	1
0020	1058	30+52	CTH LP, NB, RT	-2.11	PULL CONE; NEW MH FLAT TOP	1
0020	1353	33+30	CTH LP, NB, RT	-1.64	PULL CONE; NEW MH FLAT TOP AND RINGS AS NEEDED	1
0020	1059	34+52	CTH LP, NB, RT	-0.33	REMOVE 4" RINGS	1
0020	1060	38+52	CTH LP, NB, RT	+0.79	SPIN CONE EAST; ADD 2-4" AN 1" RUBBER RINGS	1
0020	1061	42+52	CTH LP, NB, RT	+0.12	ADD 1" RUBBER RING	1
0020	1008	46+10	CTH LP, NB, RT	-0.15	REMOVE 2" RING	1
0020	1062	46+10	CTH LP, NB, LT	-0.14	REMOVE 2" RING	1
0020	1063	48+86	CTH LP, NB, LT	+1.65	SPIN CONE WEST; ADD 18" BARREL SECTION & 2" RUBBER RING	1
0020	1064	52+86	CTH LP, NB, LT	+4.21	PULL CONE; ADD 48" BARREL SECTION & 2" RING	1
0020	1066	60+86	CTH LP, NB, LT	-0.29	REMOVE 4" RINGS	1
0020	1067	64+88	CTH LP, NB, LT	+1.21	ADD 1 - 6" AND 2 - 4" RINGS	1
0020	1068	64+88	CTH LP, NB, RT	+0.91	SPIN CONE WEST; ADD 6", 4", AND 1" RINGS	1
0020	1069	68+87	CTH LP, NB, RT	+2.43	SPIN CONE EAST; ADD 24" BARREL SECTION, 4" & 1" RINGS	1
0020	1070	1+62	RAB CIRCLE	+0.58	SPIN CONE EAST; ADD 6" AND 1" RING	1
0020	1072	76+91	CTH LP, NB, RT	-2.20	PULL CONE; NEW MH FLAT TOP AND 4" CASTING	1
0020	1073	80+04	CTH LP, NB, RT	-1.19	PULL CONE & SPIN EAST; NEW MH FLAT TOP & RINGS AS NEEDED	1
0020	1074	83+12	CTH LP, NB, RT	-2.49	PULL CONE & 48" BARREL, SPIN EAST; ADD 18" BARREL SECTION	1
0020	1075	86+35	CTH LP, NB, RT	-1.20	REMOVE 14" RINGS	1
	TOTAL					19

ADJUSTING VALVE BOXES

CATEGORY	STATION	LOCATION	SPV.0060.03 EACH
0020	ENTIRE PROJECT	CTH LP	36
	TOTAL		36

ABANDON SANITARY LATERAL

CATEGORY	STATION	LOCATION	SPV.0060.06 EACH	REMARKS
0020	73+70	CTH LP	1	CAP AT SEWER MAIN
	TOTAL		1	

WATER MAIN

CATEGORY	STATION	LOCATION	612.0902.S INSULATION BOARD POLYSTYRENE 2-INCH SY	SPV.0060.04 ABANDONING WATER SERVICE 10-INCH EACH	SPV.0060.05 SHUT OFF WATER CORPORATION EACH	SPV.0090.08 WATER MAIN 6-INCH LF	SPV.0090.09 WATER MAIN 8-INCH LF	SPV.0090.10 WATER MAIN 10-INCH LF	SPV.0090.11 WATER SERVICE 1 1/4-INCH LF	SPV.0090.12 WATER SERVICE 2-INCH LF	REMARKS
0020	23+90	CTH LP	6.7	-	-	-	-	-	-	15	
0020	28+25	CTH LP	-	1	-	-	-	-	-	-	CAP AT WATER MAIN
0020	32+60	CTH LP	6.7	-	-	-	-	15	-	-	
0020	36+85	CTH LP	6.7	-	-	-	-	-	15	-	
0020	46+05	CTH LP	6.7	-	-	-	-	15		-	
0020	48+50	CTH LP	6.7	-	-	-	-	-	15	-	
0020	49+00	CTH LP	6.7	-	-	-	-	-	15	-	
0020	51+20	CTH LP	6.7	-		20		-		-	
0020	54+80	CTH LP	6.7	-	-	-	-	-	15	-	
0020	56+80	CTH LP	6.7	-	-	-	-	-	15	-	
0020	58+85	CTH LP	6.7	-	-	-	-	-	15	-	
0020	61+30	CTH LP	6.7	-	-	-	-	-	15	-	
0020	63+80	CTH LP	6.7	-	-	-	-	-	15	-	
0020	72+40	CTH LP	6.7	-	-	-	15	-	-	-	
0020	86+00	CTH LP	6.7	-	-	-	15	-	-	-	
0020	499+00	MANITOWOC ROAD	-	-	1	-	-	-	-	-	
		TOTALS	94	1	1	20	30	30	120	15	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), CALUMET COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS WITH PLASTIC CAPS), UNLESS OTHERWISE NOTED, WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR CTH LP ESTABLISHED FROM PREVIOUS CTH LP IMPROVEMENT PROJECT - DATD 1990 AND ROAD ORDER IN VOLUME H, PAGE 518 AS DOCUMENT No. 36874.
EXISTING HIGHWAY RIGHT OF WAY FOR USH 10/STH 114 ESTABLISHED FROM PREVIOUS PROJECT T 019-4(14).
EXISTING HIGHWAY RIGHT OF WAY FOR SONNY DRIVE IS BASED ON DOCUMENT No. 493759 AND 491283.
EXISTING HIGHWAY RIGHT OF WAY FOR COMMUNITY WAY IS BASED ON CSM 3586.
EXISTING HIGHWAY RIGHT OF WAY FOR VILLA WAY IS BASED ON LAKE PARK VILLAS AND LAKE PARK HEIGHTS PLATS.
EXSITING HIGHWAY RIGHT OF WAY FOR WOODLAND ROAD IS PRESUMED TO BE 66' IN WIDTH AND CENTERED ON THE NORTH LINE OF THE NW ¼ OF SECTION 16 PER STATE STATUTE.
EXSITING HIGHWAY RIGHT OF WAY FOR MANITOWOC ROAD IS PRESUMED TO BE 66' IN WIDTH AND CENTERED ON THE NORTH LINE OF THE SW ¼ OF SECTION 9 AND THE NORTH LINE OF THE SE¼ OF SECTION 8 PER STATE STATUTE 82.31(2). PRESUMPTION SUPPORTED BY SILVER BIRCH ESTATES PLAT, CSM 1493, CSM 1150, CSM 2799, AND OAKWOOD ESTATES PLAT.
EXISTING HIGHWAY RIGHT OF WAY FOR MIDWAY ROAD IS BASED ON CSM 3197 AND 3160.
EXISTING HIGHWAY RIGHT OF WAY FOR TOWN ROAD IS BASED ON DOCUMENT #388178.
EXISTING HIGHWAY RIGHT OF WAY FOR ETHAN DRIVE BASED ON SECOND ADDITION TO CEDAR RIDGE ESTATES.

EXISTING ACCESS CONTROL SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
ACCESS CONTROL FOR USH 10/STH 114 ESTABLISHED FROM PREVIOUS PROJECT T 019-4(14) AND LAKE PARK VILLAS PLAT.
ACCESS CONTROL FOR CTH LP ESTABLISHED FROM LAKE PARK VILLAS PLAT, LAKE PARK HEIGHTS.
ACCESS CONTROL FOR MANITOWOC ROAD ESTABLISHED FROM SILVER BIRCH ESTATES PLAT.
ACCESS CONTROL FOR CTH LP ESTABLISHED FROM SECOND ADDITION TO CEDAR RIDGE PLAT.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES. AS DEFINED HEREIN. INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A **PERMANENT LIMITED EASEMENT** (PLE) FOR THE RIGHT TO CONSTRUCT AND MAINTAIN A DRAINAGE FACILITY, INCLUDING FOR SUCH PURPOSE THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY TO DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES WITHIN THE RIGHT OF WAY.

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF CURVATURE	PC
ACRES	AC	POINT OF COMPOUND CURVE	PCC
AHEAD	AH	POINT OF INTERSECTION	PI
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REFERENCE LINE	R/L
BLDG	BLDG	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBD
DOCUMENT NUMBER	DOC	TANGENT	TAN
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
HOUSE	HSE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		

CURVE DATA

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL SYMBOLS

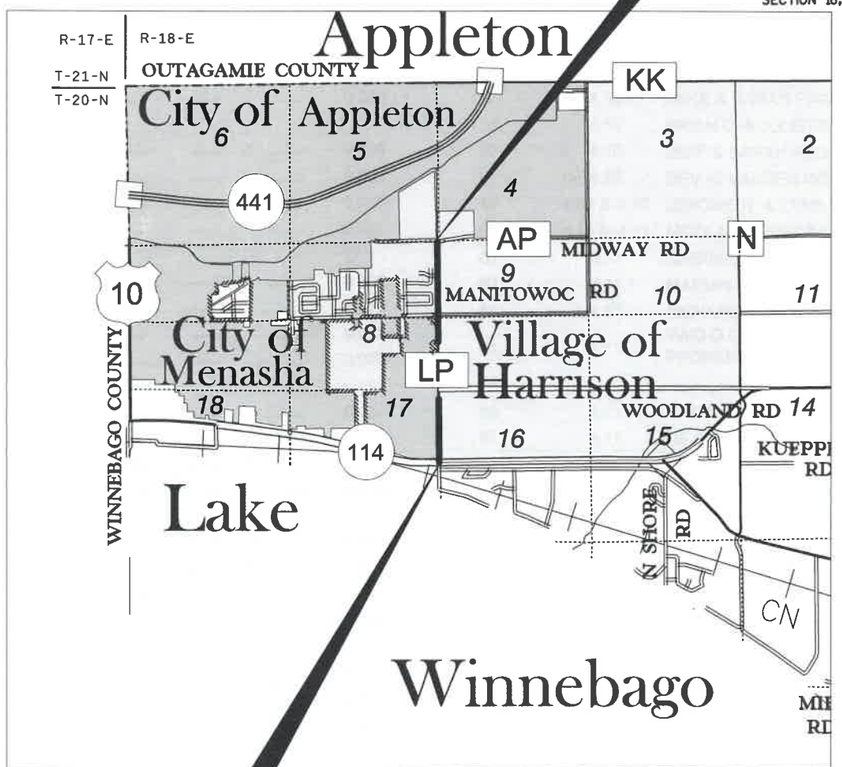
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPD)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (¾-INCH UNLESS NOTED) IP
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN — SIGN
OFF-PREMISE SIGN — 43-25 — SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL., ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)

PARCEL NUMBER (25) UTILITY NUMBER (40)
TLE POINT NUMBER [25]
PARALLEL OFFSETS



END RELOCATION ORDER
PROJECT 4992-00-56
STA. 97+56.90
Y = 550,125.590
X = 838,865.230
LOCATED 7756.67' NORTH AND 67.91' EAST OF THE WEST QUARTER CORNER OF SECTION 16, T 20 N, R 18 E.

BEGIN RELOCATION ORDER PROJECT 4992-00-56
STA. 22+00.00
Y = 542,575.403
X = 838,807.694
LOCATED 206.48' NORTH AND 10.37' EAST OF THE WEST QUARTER CORNER OF SECTION 16, T 20 N, R 18 E.

LAYOUT
SCALE 0 — 1 MILE
TOTAL LENGTH = 1.431 MI.

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
4992-00-56	4.01	11
FEDERAL PROJECT NUMBER ----------		

PLAT OF RIGHT-OF-WAY REQUIRED FOR
C MENASHA, CTH LP
(USH 10/STH 114 TO CTH AP)
CTH LP — CALUMET COUNTY

CONSTRUCTION PROJECT NUMBER
4992-00-57



ACCEPTED FOR
CALUMET COUNTY

7/18/17 (Date) Brian P. Glaeser County Highway Commissioner

ORIGINAL PLAT PREPARED BY
AYRES ASSOCIATES

THIS SURVEY IS PREPARED AT THE REQUEST OF THE COUNTY OF CALUMET.

THE FIELD SURVEY WAS PERFORMED IN DECEMBER 2014/JANUARY 2015.

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WISCONSIN
James R. Cappeart
S-3044
Green Bay
Wis.
LAND SURVEYOR

(SIGNATURE) James Cappeart
DATE: 07/17/2017
(PRINTED NAME) JAMES R. CAPPEART
(REGISTRATION NUMBER) S-3044

REVISION DATE
09/29/2017
06/01/2018

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSED ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE COUNTY.

PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXIST	TOT	PLE ACRES	TLE ACRES
1	4.05	COMMUNITY FIRST CREDIT UNION	TLE	------	------	——	------	0.313
2	4.05 & 4.06	THE REDEVELOPMENT AUTHORITY	TLE	------	------	——	------	0.497
3	4.05	TOWN OF HARRISON	TLE	------	------	——	------	0.083
4	4.05	WAVERLY SANITARY DISTRICT, A WISCONSIN MUNICIPAL CORPORATION	PLE & TLE	------	------	——	0.444	0.176
5	4.05	VILLAGE OF HARRISON	PLE	------	------	——	0.077	------
6	4.05	LAKE PARK SPORTZ DEVELOPMENT GROUP LLC	FEE & TLE	0.012	------	0.012	------	0.156
7	4.06	ALCHEMY FOX CITIES LLC	TLE	------	------	——	------	0.060
8	4.06	THE THOMAS G. SHANKE FAMILY TRUST DATED APRIL 30, 2013	FEE & TLE	0.012	------	0.012	------	0.215
9	4.06	GORDON A. & VERONA M. VAN DE HEY LIVING TRUST	FEE & TLE	0.044	------	0.044	------	0.192
10								
11	4.06	CHESTER VAN DE HEY	TLE	------	------	——	------	0.080
12	4.07	JUSTIN & KELLY ANTHONY	FEE & TLE	0.020	------	0.020	------	0.003
13	4.07	RICK A. FINNEL	FEE & TLE	0.037	------	0.037	------	0.018
14	4.07	TERRY J. AND JEAN SULLIVAN	TLE	------	------	——	------	0.039
15								
16	4.07	TERRANCE & JILL TETZLAFF	TLE	------	------	——	------	0.028
17	4.07	DANIEL E. BAYER & MARY BETH BAYER	TLE	------	------	——	------	0.028
18	4.07	ERIC J. & AMY L. STREBE	TLE	------	------	——	------	0.028
19	4.07	ROGER S. CAMBELL	TLE	------	------	——	------	0.028
20								
21	4.07	JOHN D. & TRISHA R. PRAST	TLE	------	------	——	------	0.028
22	4.07	THEODORE A. & SUSAN L. DUFOUR	TLE	------	------	——	------	0.028
23	4.07	KENNETH J. AILPORT	TLE	------	------	——	------	0.028
24	4.07	MARK E. & CYNTHIA K. HALLE	TLE	------	------	——	------	0.028
25								
26	4.07	MICHAEL J. & KARLA PFAHLER	TLE	------	------	——	------	0.034
27	4.07	NICHOLAS R. & KIMBERLY A.WALKER	TLE	------	------	——	------	0.095
28	4.07	KOLOSSO PROPERTIES LLC	FEE & TLE	0.019	0.097	0.116	------	0.077
29	4.07	GREGORY R. & ANTONIA G. LAUER	FEE & TLE	0.037	0.451	0.488	------	0.188
30								
31	4.07	ADAM G. GRIESBACH	FEE & TLE	0.017	------	0.017	0.004	0.080
32	4.07	THOMAS J. & YVONNE P. HOOYMAN	FEE & TLE	0.017	0.150	0.167	0.002	0.082
33	4.07	ROBERT W. & MARY SUE STRECK	FEE & TLE	0.023	0.199	0.222	0.002	0.109
34	4.08	GREGORY T. & LOIS SEREMETA	TLE	------	------	——	------	0.048
35								
36	4.08	DAVID H. & PATRICIA D. SMARZINSKI	TLE	------	------	——	------	0.049
37	4.08	DAMONE & TEDDRA PARRISH	TLE	------	------	——	------	0.023
38	4.08	DANIELLE D. MARKS	TLE	------	------	——	------	0.029
39	4.08	GEORGE E. & SANDRA J. HANSEL	TLE	------	------	——	------	0.102
40								

PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXIST	TOT	PLE ACRES	TLE ACRES
41								
42								
43	4.08	ERIC J. SCHILLER	FEE & TLE	0.024	0.200	0.224	——	0.112
44	4.08	VENDEE: NICHOLAS J. PIRNER VENDOR: MARK J. & BARBARA E. PIRNER	TLE	——	——	——	——	0.061
45								
46	4.08 & 4.09	SCHILLER JOINT REVOCABLE TRUST DATED JANUARY 3, 2005	FEE & TLE	0.042	——	0.042	——	0.249
47	4.09	GLENN J. & MARIE J. WHITCOMB	FEE & TLE	0.005	0.106	0.111	——	0.029
48								
49	4.09	WILLIAM D. & JULIE K. PETERSON	FEE	0.112	0.241	0.353	——	——
50								
51	4.08 & 4.09	CALUMET COUNTY	FEE	0.172	0.257	0.429	——	——
52	4.10	DEBORAH D. HENSCHEL	TLE	——	——	——	——	0.028
53	4.10	K & B DEVELOPMENTS INC	TLE	——	——	——	——	0.095
54	4.10	VC HOLDINGS LLC	TLE	——	——	——	——	0.036
55	4.10	LUKE & SARAH PAN	TLE	——	——	——	——	0.047
56	4.10	BRIAN D. & JULIETTE A. LEITZINGER	TLE	——	——	——	——	0.033
57	4.10	JEFF & SARAH NEUBAUER	TLE	——	——	——	——	0.040
58	4.09	BEV A. VANDER WIELEN	FEE	0.067	0.118	0.185	——	——
59	4.09 & 4.10	JEROME R. & LYNN C. UITENBROEK	FEE & TLE	0.185	0.196	0.381	——	0.233
60	4.10 & 4.11	NICOLAS R. SIERRA & VERONICA MARTINEZ	FEE & TLE	0.014	——	0.014	——	0.016
61	4.11	GABRIEL H. & NICOLE L. BRICKLER	FEE & TLE	0.015	——	0.015	——	0.022
62	4.11	MARVIN L. & LINDA K. THIEL	TLE	——	——	——	——	0.014
63	4.11	RICHARD S. KASTER & JAMES B. MAHN	TLE	——	——	——	——	0.224
64	4.11	TWO O ONE INVESTMENT PROPERTIES LLC	TLE	——	——	——	——	0.068
65								
66	4.11	VHE II-5 LLC	FEE & TLE	0.061	——	0.061	——	0.187
67	4.11	US OIL COMPANY, INC.	TLE	——	——	——	——	0.031
80	4.05 - 4.11	AT&T	RELEASE OF RIGHTS					
81	4.05 - 4.11	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS					
82	4.10 - 4.11	WE ENERGIES (GAS)	RELEASE OF RIGHTS					
83	4.07	MENASHA UTILITIES	RELEASE OF RIGHTS					
84	4.07, 4.09-11	TIME WARNER	RELEASE OF RIGHTS					

4

4

REVISION DATE 9/29/2017
6/1/2018 NC

DATE 07/14/2017

GRID FACTOR N/A

SCALE, FEET
NO SCALE

HWY: CTH LP

COUNTY: CALUMET

STATE R/W PROJECT NUMBER 4992-00-56

CONSTRUCTION PROJECT NUMBER 4992-00-57

PLAT SHEET 4.02

PS&E SHEET 129

E

4

4

CITY

OF

MENASHA

VILLAGE

HARRISON

SE-NE
SECTION 17
T20N R18E

NE-NE
SECTION 17
T20N R18E

SE-SE
SECTION 8
T20N R18E

SE-NW
SECTION 16
T20N R18E

NW-NW
SECTION 16
T20N R18E

SW-SW
SECTION 9
T20N R18E

COMMUNITY WAY

VILLA WAY

WINNIPEG STREET

CTH LP

USH 10/STH 114

SONNY DRIVE

WOODLAND ROAD

P.L.

1 2 2 7 2 8 12 13 14 16 17 18 19 21 22 23 24 26 27 28 29 31 32 33 3 4 5 6 9 11 9

REVISION DATE 9/29/2017 NC 6/1/2018 NC	DATE 07/14/2017	SCALE. FEET 0 NA NA	HWY: CTH LP	STATE R/W PROJECT NUMBER 4992-00-56	PLAT SHEET 4.03
	GRID FACTOR N/A		COUNTY: CALUMET	CONSTRUCTION PROJECT NUMBER 4992-00-57	PS&E SHEET 130 E

FILE NAME : 49220056_RWPL_4.03-4.04.DWG PLOT DATE : 6/1/2018 11:27 AM PLOT BY : CAPPEART, JAMES PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 75

CITY OF MENASHA

VILLAGE OF HARRISON

VILLAGE OF HARRISON

VILLAGE OF HARRISON

CITY OF HARRISON

NE-SE SECTION 8 T20N R18E

SE-NE SECTION 8 T20N R18E

NE-NE SECTION 8 T20N R18E

NW-SW SECTION 9 T20N R18E

SW-NW SECTION 9 T20N R18E

NW-NW SECTION 9 T20N R18E

ETHAN DRIVE

CTH LP

CTH AP

MANITOWOC ROAD

MIDWAY ROAD

P.L.

34 36 37 38 39 49 51 52 53 54 56 53 57 55 53 60 61 62 63 64

43 44 46 47 58 59 66 67

4

4

REVISION DATE 9/29/2017 6/1/2018 NC	DATE 07/14/2017	SCALE. FEET 0 NA NA	HWY: CTH LP	STATE R/W PROJECT NUMBER 4992-00-56	PLAT SHEET 4.04
	GRID FACTOR N/A		COUNTY: CALUMET	CONSTRUCTION PROJECT NUMBER 4992-00-57	PS&E SHEET 131 E

FILE NAME : 49220056_RWPL_4.03-4.04.DWG PLOT DATE : 6/1/2018 11:27 AM PLOT BY : CAPPEART, JAMES PLOT NAME : PLOT SCALE : 1" = 250'

WISDOT/CADDS SHEET 75

PARCEL 1 TLE		
COURSE	BEARING	DISTANCE
501-T558	S43°04'41"W	39.72'
T558-T559	N88°11'34"W	98.11'
T559-T560	N00°25'18"E	75.02'
T560-T561	S88°11'34"E	105.03'
T561-T563	N00°25'18"E	74.68'
T563-T562	S89°34'42"E	10.00'
T562-T564	N00°25'18"E	287.68'
T564-T565	N89°34'31"W	20.00'
T565-T566	N00°25'18"E	10.00'
T566-502	S89°34'31"E	30.00'
502-501	S00°25'18"W	418.00'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
500-501	N89°34'42"W	42.11'
501-502	N00°25'18"E	418.00'
502-503	N00°25'18"E	50.00'
503-504	N00°25'18"E	562.29'
504-505	N89°42'14"E	45.58'
505-506	S89°46'55"E	4.43'
506-507	S89°46'55"E	47.50'
507-508	S00°25'18"W	136.67'
508-509	S00°25'18"W	76.56'
509-510	S06°41'02"W	22.92'
510-511	S00°25'18"W	64.72'
511-512	S89°34'42"E	15.00'
512-513	S00°25'18"W	20.00'
513-514	N89°34'42"W	15.00'
514-515	S00°25'18"W	710.32'
515-516	N89°34'42"W	45.00'
516-500	N89°34'42"W	7.89'

NOTES:

EXISTING RIGHT-OF-WAY SHOWN HEREON IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR CTH LP ESTABLISHED FROM PREVIOUS CTH LP IMPROVEMENT PROJECT - DATED 1990 AND ROAD ORDER IN VOLUME H, PAGE 518 AS DOCUMENT No. 36874
EXISTING HIGHWAY RIGHT OF WAY FOR USH 10/STH 114 ESTABLISHED FROM PREVIOUS PROJECT T 019-4(14).
EXISTING HIGHWAY RIGHT OF WAY FOR SONNY DRIVE IS BASED ON DOCUMENT No. 493759 AND 491283.
EXISTING HIGHWAY RIGHT OF WAY FOR COMMUNITY WAY IS BASED ON CSM 3586.
ACCESS CONTROL FOR USH 10/STH 114 ESTABLISHED FROM PREVIOUS PROJECT T 019-4(14) AND LAKE PARK VILLAS PLAT.
ACCESS CONTROL FOR CTH LP ESTABLISHED FROM LAKE PARK VILLAS PLAT.

PARCEL 2 TLE		
COURSE	BEARING	DISTANCE
503-T569	N89°34'31"W	30.00'
T569-T568	N00°25'18"E	10.00'
T568-T567	S89°34'42"E	20.00'
T567-T570	N00°25'18"E	492.31'
T570-T571	N89°34'42"W	65.00'
T571-T572	N00°25'18"E	59.03'
T572-504	N89°42'14"E	75.01'
504-503	S00°25'18"W	562.29'

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
500	22+79.68	7.98'	542655.139	838800.388
501	22+79.68	50.00'	542655.449	838758.282
502	26+97.68	50.00'	543073.441	838761.356
503	27+47.68	50.00'	543123.439	838761.726
504	33+09.97	50.00'	543685.713	838765.865
505	33+10.54	4.43'	543685.949	838811.440
506	33+10.56	0.00'	543685.932	838815.868
507	33+10.73	47.50'	543685.751	838863.368
508	31+74.06	47.50'	543549.087	838862.362
509	30+97.50	47.50'	543472.532	838861.798
510	30+74.72	45.00'	543449.769	838859.131
511	30+10.00	45.00'	543385.050	838858.654
512	30+10.00	60.00'	543384.939	838873.654
513	29+90.00	60.00	543364.940	838873.507
514	29+90.00	45.00'	543365.050	838858.507
515	22+79.68	45.00'	542654.750	838853.279
516	22+79.68	0.00'	542655.081	838808.280

PARCELS 4 & 5 PLE		
COURSE	BEARING	DISTANCE
515-P530	N00°25'18"E	280.34'
P530-P531	N00°25'18"E	55.00'
P531-P532	S89°34'32"E	412.86'
P532-P533	S00°25'28"W	55.00'
P533-P530	N89°34'32"W	412.86'

PARCELS 3 & 4 TLE		
COURSE	BEARING	DISTANCE
515-P530	N00°25'18"E	280.34'
P530-T552	S89°34'32"E	20.00'
T552-T574	S00°25'18"W	122.02'
T574-T575	S89°34'42"E	20.00'
T575-T576	S00°25'18"W	100.00'
T576-T577	N89°34'42"W	20.00'
T577-T550	S00°25'18"W	104.90'
T550-T551	N47°31'08"W	26.94'
T551-515	N00°25'18"E	28.53'

PARCELS 4 & 6 TLE		
COURSE	BEARING	DISTANCE
515-P531	N00°25'18"E	335.34'
P531-514	N00°25'18"E	374.98'
514-513	S89°34'42"E	15.00'
513-T553	S00°25'18"W	374.98'
T553-P531	N00°25'18"E	15.00'

PARCELS 6 TLE					
COURSE	BEARING	DISTANCE	COURSE	BEARING	DISTANCE
515-P511	N00°25'18"E	730.32'	T557-T556	S00°34'32"E	10.00'
511-510	N00°25'18"E	64.72'	T556-T555	N89°47'03"W	70.57'
510-509	N06°41'02"E	22.92	T555-T554	S37°13'03"W	108.56'
509-508	N00°25'18"E	76.56'	T554-512	S00°25'18"W	164.08'
508-T573	N37°14'23"E	121.07'	512-511	N89°34'42"W	15.00'
T573-T557	N89°46'55"E	75.37'			

FOUND RAILROAD SPIKE
Y=542,368.921
X=838,797.320

POB STA 19+99.84
Y=542,375.249
X=838,806.221

QUARTER LINE

N00°36'52"E 286.24'

BEGIN RELOCATION ORDER PROJECT 4992-00-56
STA. 22+00.00
Y = 542,575.403
X = 838,807.694
LOCATED 206.48' NORTH AND 10.37' EAST OF THE WEST QUARTER CORNER OF SECTION 16, T 20 N, R 18 E.
WISDOT ITS FACILITIES

CONSTRUCTION EASEMENT LAKE PARK VILLAS PLAT 75' WIDE
SANITARY SEWER EASEMENT LAKE PARK VILLAS PLAT 25' WIDE
PEDESTRIAN AND BIKE PATH EASEMENT LAKE PARK VILLAS PLAT 15' WIDE

CITY OF MENASHA

LAKE PARK VILLAS
VOL C PLATS, PAGE 146
DOCUMENT # 347976

50' INGRESS/EGRESS EASEMENT. LAKE PARK VILLAS PLAT

70' INGRESS/EGRESS EASEMENT PER LAKE PARK VILLAS PLAT

UTILITY AND STORM SEWER EASEMENT PER LAKE PARK VILLAS PLAT

COMMUNITY WAY

LOT 8
LOT 9
LOT 10
LOT 11

1 COMMUNITY FIRST CREDIT UNION

LOT 1
CSM 3586
VOL. 32, PAGE 1
DOC #515515

2 THE REDEVELOPMENT AUTHORITY

TLE - SIDEWALK & SLOPES 0.313 AC

TLE - DRIVEWAY & SLOPES 0.222 AC

AT&T UG FIBER UG TELEPHONE SLOPE INTERCEPT

80 AT&T 16.5' TELEPHONE EASEMENT JACKET 1416 IMAGE 43-44

FOUND ALUMINUM CAPPED COUNTY MONUMENT
Y=545,002.977
X=838,825.562

SECTION LINE N00°36'52"E 2634.21'

S00°36'52"W 1317.10'

TIME WARNER UG FIBER

WE ENERGIES OH ELECTRIC

TLE DRIVEWAY & SLOPES 0.083 AC

TLE - DRIVEWAY & SLOPES 0.108 AC

WE ENERGIES UG GAS

AT&T UG FIBER

CTH LP

TLE - DRIVEWAY & SLOPES 0.068 AC

TLE - SLOPES 0.061 AC

SLOPE INTERCEPT

TLE - SLOPES 0.095 AC

SONNY DRIVE

MATCHLINE SEE SHEET 4.06

3 TOWN OF HARRISON

WAVERLY SANITARY DISTRICT SEWER EASEMENT DOC #302754

80 AT&T BLDG & TELEPHONE EASEMENT DOC #222732

80 AT&T TELEPHONE EASEMENT DOC #204155

USH 10/STH 114

AT&T TELEPHONE EASEMENT DOC #204155

VILLAGE OF HARRISON

LOT 1
CSM 1915
VOL. 13, PAGE 341
DOC #259090

80 AT&T TELEPHONE EASEMENT DOC #211806 12' WIDE

4 WAVERLY SANITARY DISTRICT, A WISCONSIN MUNICIPAL CORPORATION

PLE - DRAINAGE 0.444 AC

PLE - DRAINAGE 0.077 AC

5 VILLAGE OF HARRISON

LOT 1
CSM 2130
VOL. 15, PAGE 203
DOC #282258

6 LAKE PARK SPORTZ DEVELOPMENT GROUP LLC

81 WE ENERGIES ELECTRIC EASEMENT DOC #501938

HARRISON

REVISION DATE	DATE	SCALE: FEET	HWY: CTH LP	STATE R/W PROJECT NUMBER: 4992-00-56	PLAT SHEET 4.05	
9/29/2017 NC 6/1/2018 NC	07/14/2017	0 50 100	COUNTY: CALUMET	CONSTRUCTION PROJECT NUMBER: 4992-00-57	PS&E SHEET	E
	GRID FACTOR N/A				132	

FILE NAME : 45040100-RWPL_4.05-4.07.DWG PLOT DATE : 6/1/2018 11:25 AM PLOT BY : CAPPEART, JAMES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

NOTES:

EXISTING RIGHT-OF-WAY SHOWN HEREON IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR CTH LP ESTABLISHED FROM PREVIOUS CTH LP IMPROVEMENT PROJECT - DATED 1990 AND ROAD ORDER IN VOLUME H, PAGE 518 AS DOCUMENT No. 36874
EXISTING HIGHWAY RIGHT OF WAY FOR SONNY DRIVE IS BASED ON DOCUMENT No. 493759 AND 491283.
EXISTING HIGHWAY RIGHT OF WAY FOR VILLA WAY IS BASED ON LAKE PARK VILLAS
EXSITING HIGHWAY RIGHT OF WAY FOR WOODLAND ROAD IS PRESUMED TO BE 66' IN WIDTH AND CENTERED ON THE NORTH LINE OF THE NW ¼ OF SECTION 16 PER STATE STATUTE

ACCESS CONTROL FOR CTH LP ESTABLISHED FROM LAKE PARK VILLAS PLAT.

PARCELS 2, 7 & 8 TLE		
COURSE	BEARING	DISTANCE
504-T572	S89°42'14"W	75.01'
T572-T651	N00°25'18"E	60.97'
T651-T650	S89°34'42"E	65.00'
T650-T652	N00°25'18"E	462.13'
T652-T653	N89°34'31"W	10.00'
T653-T654	N00°25'18"E	751.27'
T654-601	S37°45'27"E	32.36'
601-504	S00°25'18"W	1247.99

PARCELS 9 & 11 TLE		
COURSE	BEARING	DISTANCE
615-614	N00°25'18"E	749.19'
614-613	N03°17'03"E	75.19'
613-T657	S89°34'42"E	11.25'
T657-T659	S00°25'18"W	305.93'
T659-T658	N89°34'42"W	5.00'
T658-T660	S00°25'18"W	531.70'
T660-615	N36°26'18"W	16.67'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
505-504	S89°42'14"W	45.58'
504-601	N00°25'18"E	1247.99'
601-602	N37°45'27"W	45.51'
602-603	N07°54'27"W	33.29'
603-604	N89°45'33"E	82.96'
604-605	S89°43'52"E	170.09'
605-606	S00°16'08"W	33.00'
606-607	S00°16'08"W	10.00'
607-608	N89°43'52"W	69.02'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
608-609	S45°23'51"W	72.43'
609-610	S00°25'18"W	208.67'
610-611	S89°34'42"E	25.00'
611-612	S00°25'18"W	50.00'
612-613	N89°34'42"W	26.25'
613-614	S03°17'03"W	75.19'
614-615	S00°25'18"W	749.19'
615-507	S00°36'05"E	140.01'
507-506	N89°46'55"W	47.50'
506-505	N89°46'55"W	4.43'

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
504	33+09.97	50.00'	543685.713	838765.865
505	33+10.54	4.43'	543685.949	838811.440
506	33+10.56	0.00'	543685.932	838815.868
507	33+10.73	47.50'	543685.751	838863.368
601	45+57.97	50.00'	544933.673	838775.050
602	45+93.74	78.13'	544969.653	838747.184
603	46+26.68	82.95'	545002.628	838742.604
604	46+27.64	0.00'	545002.977	838825.562
605	46+28.09	170.09'	545002.179	838995.654
606	45+95.05	170.18'	544969.136	838995.499
607	45+85.05	170.21'	544959.139	838995.452
608	45+84.73	101.00'	544959.326	838926.256
609	45+33.67	50.00'	544908.646	838874.869
610	43+25.00	50.00'	544699.977	838873.333
611	43+25.00	75.00'	544699.793	838898.332

PARCEL 9 TLE		
COURSE	BEARING	DISTANCE
610-609	N00°25'18"E	208.67'
609-T655	N45°23'51"E	14.15'
T655-T656	S00°25'18"W	218.68'
T656-610	N89°34'42"W	10.00'

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
612	42+75.00	75.00'	544649.795	838897.964
613	42+75.00	48.75'	544649.988	838871.720
614	41+99.90	45.00'	544574.919	838867.412
615	34+50.71	45.00'	543825.749	838861.898

REVISION DATE 9/29/2017 NC 6/1/2018 NC	DATE 07/14/2017	SCALE, FEET 0 50 100	HWY: CTH LP	STATE R/W PROJECT NUMBER: 4992-00-56	PLAT SHEET 4.06
	GRID FACTOR N/A		COUNTY: CALUMET	CONSTRUCTION PROJECT NUMBER: 4992-00-57	PS&E SHEET 133 E

FILE NAME : 45040100-RWPL_4.05-4.07.DWG PLOT DATE : 6/1/2018 11:25 AM PLOT BY : CAPPEART, JAMES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

PARCEL 31 PLE COURSE TABLE		
COURSE	BEARING	DISTANCE
724-723	N00°39'34"E	534.32'
723-720	N00°39'34"E	10.00'
720-721	S89°20'26"E	12.00'
721-722	S00°39'34"W	10.00'
722-723	N89°20'26"W	12.00'

PARCEL 27 TLE		
COURSE	BEARING	DISTANCE
706-T752	S82°45'04"W	91.49'
T752-T753	N00°27'41"W	17.05'
T753-T754	N89°32'19"E	65.96'
T754-T755	N00°39'34"E	123.00'
T755-707	N89°35'44"E	25.00'
707-706	S00°39'34"W	129.21'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
604-603	S89°45'33"W	82.96'
603-701	N07°54'27"W	47.43'
701-702	N45°24'12"E	42.60'
702-703	N00°39'34"E	178.13'
703-704	S75°24'37"E	10.30'
704-705	N00°39'34"E	853.26'
705-706	N00°39'34"E	82.87'
706-707	N00°39'34"E	129.21'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
707-708	N89°35'44"E	49.63'
708-709	S89°40'44"E	0.38'
709-711	S89°40'44"E	36.50'
711-724	S00°39'34"W	1185.94'
724-725	S07°41'04"E	73.80'
725-726	S00°16'08"W	58.70'
726-604	N89°43'52"W	47.59'

PARCEL 32/33 PLE COURSE TABLE		
COURSE	BEARING	DISTANCE
724-715	N00°39'34"E	921.49'
715-712	N00°39'34"E	10.00'
712-713	S89°20'26"E	12.00'
713-714	S00°39'34"W	10.00'
714-715	N89°20'26"W	12.00'

PARCEL 31/32 PLE COURSE TABLE		
COURSE	BEARING	DISTANCE
724-719	N00°39'34"E	720.32'
719-716	N00°39'34"E	10.00'
716-717	S89°20'26"E	12.00'
717-718	S00°39'34"W	10.00'
718-719	N89°20'26"W	12.00'

PARCELS 28, 29, 31-33 TLE		
COURSE	BEARING	DISTANCE
725-724	N07°41'04"W	73.80'
724-723	N00°39'34"E	527.54'
723-722	S89°20'26"E	15.50'
722-721	N00°39'34"E	20.00'
721-720	N89°20'26"W	15.50'
720-719	N00°39'34"E	167.78'
719-718	S89°20'26"E	15.50'
718-717	N00°39'34"E	20.00'

PARCELS 28, 29, 31-33 TLE		
COURSE	BEARING	DISTANCE
717-716	N89°20'26"W	15.50'
716-715	N00°39'34"E	181.18'
715-714	S89°20'26"E	15.50'
714-713	N00°39'34"E	20.00'
713-712	N89°20'26"W	15.50'
712-711	N00°39'34"E	249.45'
711-T756	S89°40'44"E	18.50'
T756-T757	S00°39'34"W	1256.82'
T757-T758	S53°50'39"E	24.10'
T758-T759	S89°50'45"E	95.00'
T759-T760	S00°09'15"W	13.41'
T760-T761	N82°17'04"W	112.87'
T761-725	N44°28'56"W	14.82'

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
603	46+27.00	55.00'	545002.746	838770.559
604	46+27.64	0.00'	545002.977	838825.562
701	46+73.24	90.00'	545049.608	838736.079
702	47+03.50	60.00'	545079.519	838766.414
703	48+81.63	60.00'	545257.637	838768.464
704	48+79.15	50.00'	545255.042	838778.435
705	57+32.40	50.00'	546108.244	838788.256
706	58+15.28	50.00'	546191.110	838789.210
707	59+44.49	50.00'	546320.313	838790.697
708	59+45.41	0.38'	546320.663	838840.328
709	59+45.41	0.00'	546320.661	838840.704
711	59+45.63	36.50'	546320.456	838877.204
712	56+91.18	36.50'	546066.022	838874.275

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
713	56+91.18	48.50'	546065.884	838886.275
714	56+81.18	48.50'	546055.844	838886.160
715	56+81.18	36.50'	546056.022	838874.160
716	54+90.00	36.50'	545864.860	838871.960
717	54+90.00	48.00'	545864.722	838883.959
718	54+80.00	48.50'	545854.723	838883.844
719	54+80.00	36.50'	545854.861	838871.845
720	53+04.00	36.50'	545678.872	838869.819
721	53+04.00	48.50'	545678.734	838881.818
722	52+94.00	48.50'	545668.735	838881.703
723	52+94.00	36.50'	545668.873	838869.704
724	47+59.68	36.50'	545134.591	838863.554
725	46+86.66	47.21'	545061.453	838873.423
726	46+27.77	47.59'	545002.754	838873.147

NOTES:
EXISTING RIGHT-OF-WAY SHOWN HEREON IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR CTH LP ESTABLISHED FROM PREVIOUS CTH LP IMPROVEMENT PROJECT - DATED 1990, ROAD ORDER IN VOLUME H, PAGE 518 AS DOCUMENT No. 36874, AND CSM 414.
EXISTING HIGHWAY RIGHT OF WAY FOR VILLA WAY IS BASED ON LAKE PARK HEIGHTS.
EXSITING HIGHWAY RIGHT OF WAY FOR WOODLAND ROAD IS PRESUMED TO BE 66' IN WIDTH AND CENTERED ON THE SOUTH LINE OF THE SW ¼ OF SECTION 9 PER STATE STATUTE.

ACCESS CONTROL FOR CTH LP ESTABLISHED FROM LAKE PARK HEIGHTS.

REVISION DATE 9/29/2017 6/1/2018	DATE 07/14/2017	SCALE, FEET 0 50 100	HWY: CTH LP	STATE R/W PROJECT NUMBER: 4992-00-56	PLAT SHEET 4.07
	GRID FACTOR N/A		COUNTY: CALUMET	CONSTRUCTION PROJECT NUMBER: 4992-00-57	PS&E SHEET 134 E

FILE NAME : 45040100-RWPL_4.05-4.07.DWG PLOT DATE : 6/1/2018 11:24 AM PLOT BY : CAPPEART, JAMES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

NOTES:

EXISTING RIGHT-OF-WAY SHOWN HEREON IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT OF WAY FOR CTH LP ESTABLISHED FROM PREVIOUS CTH LP IMPROVEMENT PROJECT - DATED 1990 AND ROAD ORDER IN VOLUME H, PAGE 518 AS DOCUMENT *36874

PARCEL 34, 36, 37, 38, 39 TLE		
COURSE	BEARING	DISTANCE
707-T850	S89°35'44"W	10.00'
T850-T865	N00°39'34"E	269.96'
T865-T851	N01°11'56"E	569.38'
T851-T852	N89°29'57"W	10.00'
T853-T853	N01°11'56"E	126.80'
T853-801	S89°30'04"E	20.00'
801-800	S01°11'56"W	696.26'
800-707	S00°39'34"W	269.73'

PARCEL 43, 44, 46 TLE		
COURSE	BEARING	DISTANCE
711-816	N00°39'34"E	264.00'
816-815	S89°40'44"E	8.50'
815-814	N00°39'34"E	4.09'
814-813	N01°11'56"E	284.14'
813-T854	S89°17'57"E	5.00'
T854-T856	S01°11'56"W	98.37'
T856-T855	S88°48'04"E	10.00'
T855-T857	S01°11'56"W	75.00'
T857-T858	N88°48'04"W	5.00'
T858-T859	S01°11'56"W	110.76'
T859-T864	S00°39'34"W	267.99'
T864-711	N89°40'44"W	18.50'

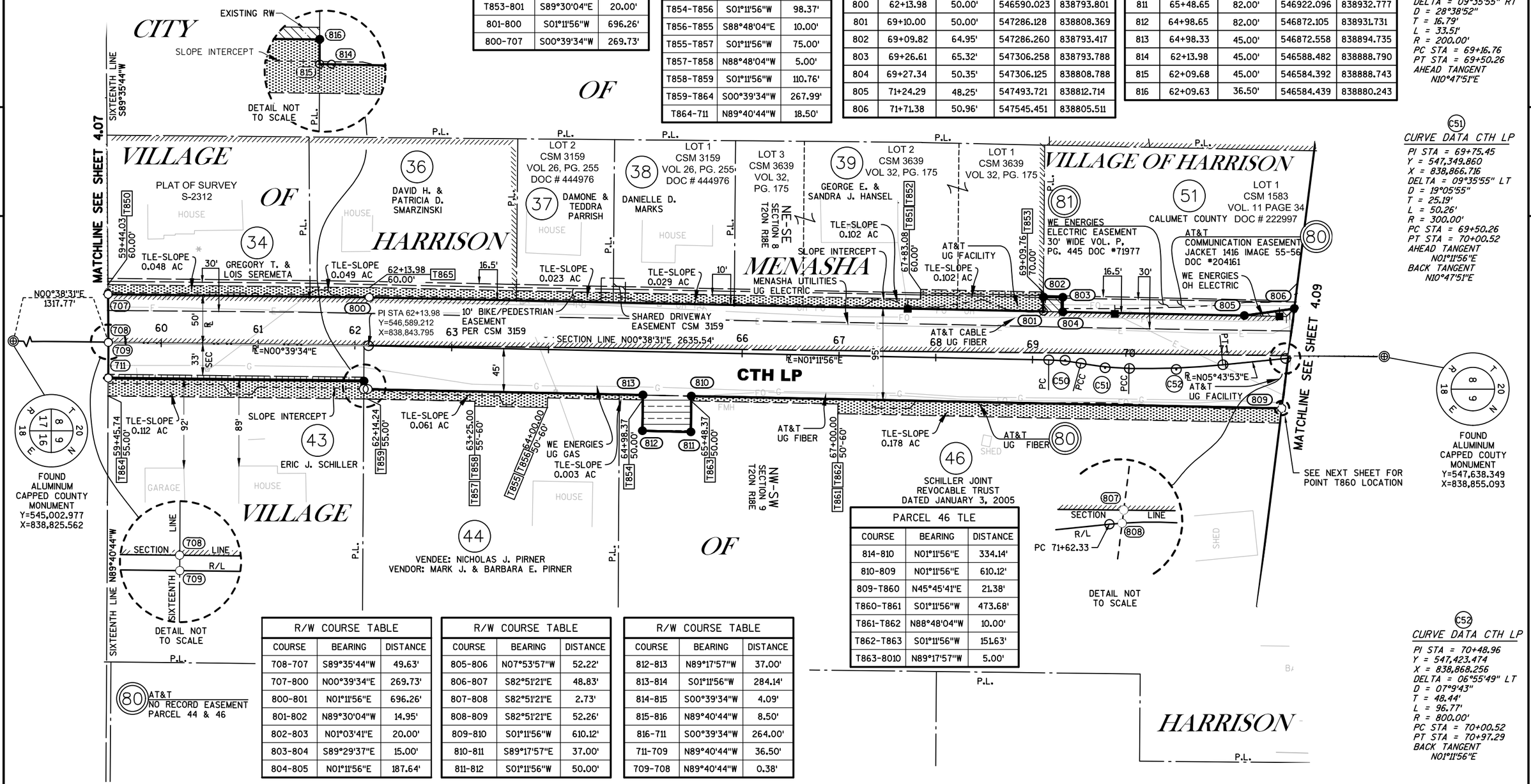
R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
707	59+44.49	50.00'	546320.313	838790.697
708	59+45.41	0.38'	546320.663	838840.328
709	59+45.41	0.00'	546320.661	838840.704
711	59+45.63	36.50'	546320.456	838877.204
800	62+13.98	50.00'	546590.023	838793.801
801	69+10.00	50.00'	547286.128	838808.369
802	69+09.82	64.95'	547286.260	838793.417
803	69+26.61	65.32'	547306.258	838793.788
804	69+27.34	50.35'	547306.125	838808.788
805	71+24.29	48.25'	547493.721	838812.714
806	71+71.38	50.96'	547545.451	838805.511

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
807	71+65.50	2.68'	547539.375	838853.984
808	71+64.98	0.00'	547539.035	838856.697
809	71+53.34	50.98'	547532.536	838908.547
810	65+48.33	45.00'	546922.549	838895.781
811	65+48.65	82.00'	546922.096	838932.777
812	64+98.65	82.00'	546872.105	838931.731
813	64+98.33	45.00'	546872.558	838894.735
814	62+13.98	45.00'	546588.482	838888.790
815	62+09.68	45.00'	546584.392	838888.743
816	62+09.63	36.50'	546584.439	838880.243

C50
CURVE DATA CTH LP
PI STA = 69+33.55
Y = 547,308.623
X = 838,858.851
DELTA = 09°35'55" RT
D = 28°38'52"
T = 16.79'
L = 33.51'
R = 200.00'
PC STA = 69+16.76
PT STA = 69+50.26
AHEAD TANGENT
N10°47'51"E

C51
CURVE DATA CTH LP
PI STA = 69+75.45
Y = 547,349.860
X = 838,866.716
DELTA = 09°35'55" LT
D = 19°05'55"
T = 25.19'
L = 50.26'
R = 300.00'
PC STA = 69+50.26
PT STA = 70+00.52
AHEAD TANGENT
N01°11'56"E
BACK TANGENT
N10°47'51"E

C52
CURVE DATA CTH LP
PI STA = 70+48.96
Y = 547,423.474
X = 838,868.256
DELTA = 06°55'49" LT
D = 07°9'43"
T = 48.44'
L = 96.77'
R = 800.00'
PC STA = 70+00.52
PT STA = 70+97.29
BACK TANGENT
N01°11'56"E



PARCEL 46 TLE		
COURSE	BEARING	DISTANCE
814-810	N01°11'56"E	334.14'
810-809	N01°11'56"E	610.12'
809-T860	N45°45'41"E	21.38'
T860-T861	S01°11'56"W	473.68'
T861-T862	N88°48'04"W	10.00'
T862-T863	S01°11'56"W	151.63'
T863-8010	N89°17'57"W	5.00'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
708-707	S89°35'44"W	49.63'
707-800	N00°39'34"E	269.73'
800-801	N01°11'56"E	696.26'
801-802	N89°30'04"W	14.95'
802-803	N01°03'41"E	20.00'
803-804	S89°29'37"E	15.00'
804-805	N01°11'56"E	187.64'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
805-806	N07°53'57"W	52.22'
806-807	S82°51'21"E	48.83'
807-808	S82°51'21"E	2.73'
808-809	S82°51'21"E	52.26'
809-810	S01°11'56"W	610.12'
810-811	S89°17'57"E	37.00'
811-812	S01°11'56"W	50.00'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
812-813	N89°17'57"W	37.00'
813-814	S01°11'56"W	284.14'
814-815	S00°39'34"W	4.09'
815-816	N89°40'44"W	8.50'
816-711	S00°39'34"W	264.00'
711-709	N89°40'44"W	36.50'
709-708	N89°40'44"W	0.38'

REVISION DATE 9/29/2017 6/1/2018 NC	DATE: 07/14/2017	SCALE, FEET 0 50 100	HWY: CTH LP	STATE R/W PROJECT NUMBER: 4992-00-56	PLAT SHEET 4.08
	GRID FACTOR N/A		COUNTY: CALUMET	CONSTRUCTION PROJECT NUMBER: 4992-00-57	PS&E SHEET 135 E

FILE NAME : 45040100-RWPL _4.08-4.10.DWG PLOT DATE : 6/1/2018 11:42 AM PLOT BY : CAPPEART, JAMES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
806	71+71.38	50.96'	547545.451	838805.511
807	71+65.50	2.68'	547539.375	838853.984
808	71+64.98	0.00'	547539.035	838856.697
809	71+53.34	50.98'	547532.536	838908.547
900	74+16.64	24.75'	547782.889	838855.648
909	74+28.28	0.00'	547797.475	838878.851
910	74+45.23	33.75'	547817.507	838910.718
911	74+01.91	58.11'	547763.343	838824.555
1101	501+16.46	32.94'	547604.518	838982.468
1102	504+13.09	33.49'	547602.593	839277.668
1103	501+13.09	43.49'	547592.593	839277.607

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1104	504+30.94	43.49'	547592.483	839295.460
1105	504+31.21	33.49	547602.474	839295.786
1106	505+50.00	33.54'	547601.700	839414.575
1107	505+50.00	0.54'	547634.699	839414.778
1108	505+50.00	0.00'	547635.237	839414.781
1109	505+50.00	32.46'	547667.699	839414.980
1110	500+99.15	56.68'	547690.850	839315.120
1111	500+82.38	79.56'	547693.030	838959.926
1112	500+18.25	180.72'	547714.146	838938.925
1117	499+10.00	77.17'	547733.414	838800.453
1118	498+77.25	48.00'	547711.081	838742.382

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
807-808	S82°51'21"E	2.73'
808-809	S82°51'21"E	52.26'
809-1101	N45°45'41"E	103.18'
1101-1102	S89°37'35"E	292.32'
1102-1103	S00°31'02"W	10.00'
1103-1104	S89°38'54"E	20.76'
1104-1105	N00°21'06"E	9.99'
1105-1106	S89°37'35"E	119.06'
1106-1107	N00°21'06"E	33.00'
1107-1108	N00°21'06"E	0.54'
1108-1109	N00°21'06"E	32.46'
1109-1110	N76°56'50"W	102.51'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
1110-1111	N89°38'54"W	355.20'
1111-1112	N44°50'38"W	29.78'
1112-910	N15°15'51"W	107.14'
910-909	S57°50'44"W	37.64'
909-900	S57°50'44"W	27.41'
900-911	S57°50'44"W	36.73'
911-1117	SEE CURVE TABLE C1	
1117-1118	S68°57'49"W	62.22'
1118-1119	S54°26'57"W	30.07'
1119-1120	S81°56'16"W	79.40'
1120-1121	N00°13'12"E	8.72'
1121-1122	S89°25'29"W	122.57'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
1122-1123	S82°23'23"W	122.47'
1123-1124	S89°25'29"W	50.00'
1124-1125	S73°46'58"W	25.95'
1125-1126	S00°34'12"E	33.00'
1126-1127	S00°34'12"E	1.50'
1127-1128	S00°34'12"E	38.50'
1128-1129	N89°25'29"E	321.90'
1129-1130	N01°12'00"E	7.00'
1130-1131	N89°25'29"E	104.26'
1131-806	S44°38'08"E	82.66'
806-807	S82°51'21"E	48.83'

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1119	498+55.52	34.40'	547693.600	838717.921
1120	497+75.65	37.90'	547682.464	838639.307
1121	497+77.27	46.49'	547691.185	838639.340
1122	496+46.55	56.51'	547689.954	838516.773
1123	495+25.00	41.50'	547673.734	838395.378
1124	494+75.00	41.50'	547673.232	838345.381
1125	494+50.00	34.50'	547665.982	838320.452
1126	494+50.00	1.50'	547632.983	838320.780
1127	494+50.00	0.00'	547631.488	838320.795
1128	494+50.00	38.50	547592.985	838321.178
1129	497+66.46	40.90'	547596.218	838643.062
1130	497+65.27	47.79'	547603.219	838643.209
1131	498+69.86	58.80'	547604.265	838747.274

CURVE TABLE					
CURVE	COURSE	LENGTH	RADIUS	LONG CHORD	LONG CHORD BEARING
C1	911-1117	39.70'	45.00'	38.43'	S38°50'43"W

PARCEL 46 TLE		
COURSE	BEARING	DISTANCE
1101-1102	S89°37'35"E	292.32'
1102-1103	S00°31'02"W	10.00'
1103-T1150	N89°37'35"W	302.44'
T1150-1101	N45°45'41"E	14.24'

PARCEL 47 TLE		
COURSE	BEARING	DISTANCE
1105-T1151	S89°37'35"E	127.26'
T1151-T1152	S00°21'06"W	10.00'
T1152-T1104	N89°37'25"W	127.24'
T1104-T1105	N01°52'12"E	10.00'

NOTES:

EXISTING RIGHT-OF-WAY SHOWN HEREON IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT OF WAY FOR CTH LP ESTABLISHED FROM PREVIOUS CTH LP IMPROVEMENT PROJECT - DATED 1990 AND ROAD ORDER IN VOLUME H, PAGE 518 AS DOCUMENT #36874

EXISTING HIGHWAY RIGHT OF WAY FOR MANITOWOC ROAD SHOWN HEREIN IS PRESUMED TO BE CENTERED ON THE NORTH LINE OF THE SW 1/4 OF SECTION 9 AND THE NORTH LINE OF THE SE 1/4 OF SECTION 8, T20N, R18E PER STATE STATUTE 82.31 (2). PRESUMPTION SUPPORTED BY SILVER BIRCH ESTATES PLAT, CSM 1493, CSM 1150, CSM 2799 AND OAKWOOD ESTATES PLAT.

EXISTING ACCESS CONTROL ALONG MANITOWOC ROAD ESTABLISHED FROM SILVER BIRCH ESTATES PLAT.

REVISION DATE 9/29/2017 6/1/2018 NC	DATE: 07/14/2017	SCALE, FEET 0 50 100	HWY: CTH LP	STATE R/W PROJECT NUMBER: 4992-00-56	PLAT SHEET 4.09
	GRID FACTOR N/A		COUNTY: CALUMET	CONSTRUCTION PROJECT NUMBER: 4992-00-57	PS&E SHEET 136 E

FILE NAME : 45040100-RWPL _4.09.DWG PLOT DATE : 6/1/2018 11:46 AM PLOT BY : CAPPEART, JAMES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

NOTES:

EXISTING RIGHT-OF-WAY SHOWN HEREON IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT OF WAY FOR CTH LP ESTABLISHED FROM PREVIOUS CTH LP IMPROVEMENT PROJECT - DATED 1990 AND ROAD ORDER IN VOLUME H, PAGE 518 AS DOCUMENT *36874.

EXISTING ACCESS CONTROL ALONG CTH LP ESTABLISHED FROM SECOND ADDITION TO CEDAR RIDGE PLAT.

C57

CURVE DATA CTH LP

PI STA = 74+45.09
Y = 547,813.492
X = 838,872.704
DELTA = 10°48'54" RT
D = 05°43'46"
T = 94.66'
L = 188.76'
R = 1000.00'
PC STA = 73+50.43
PT STA = 75+39.19
BACK TANGENT
N10°49'36"W

C58

CURVE DATA CTH LP

PI STA = 76+48.03
Y = 548,016.997
X = 838,872.662
DELTA = 06°47'00" LT
D = 11°27'33"
T = 29.63'
L = 59.20'
R = 500.00'
PC STA = 76+18.40
PT STA = 76+77.60
AHEAD TANGENT
N06°47'42"W

C59

CURVE DATA CTH LP

PI STA = 77+07.22
Y = 548,075.845
X = 838,865.65
DELTA = 06°47'00" RT
D = 11°27'33"
T = 29.63'
L = 59.20'
R = 500.00'
PC STA = 76+77.59
PT STA = 77+36.79
BACK TANGENT
N06°47'42"W

FOUND ALUMINUM CAPPED COUNTY MONUMENT
Y=547,638.349
X=838,855.093

FOUND CHISELED X
Y=550,269.934
X=838,865.200

QUARTER LINE N89°25'29"E

QUARTER LINE S89°37'35"E

SIXTEENTH LINE N89°11'27"E

P.L. SIXTEENTH LINE S89°29'21"E

VILLAGE OF HARRISON

RIDGE ESTATES

SECOND ADDITION TO CEDAR RIDGE ESTATE
DOC #397531

SE-NE SECTION 8 T20N R18E

SW-NW SECTION 9 T20N R18E

OUTLOT 1
CSM 1150
VOL. 8, PG. 124

LOT 135 | LOT 134 | LOT 133 | LOT 132 | LOT 131 | LOT 130 | LOT 129 | LOT 128 | LOT 111 | LOT 110 | LOT 109 | LOT 108

52 DEBORAH D. HENSCHEL

54 VC HOLDINGS LLC

53 K & B DEVELOPMENT INC

56 BRIAN D. & JULIETTE LEITZINGER

53 K & B DEVELOPMENT INC

57 JEFF & SARAH NEUBAUER

55 LUKE & SARAH PAN

53 K & B DEVELOPMENT INC

60 NICHOLAS R. SIERRA & VERONICA MARTINEZ

59 JEROME R. & LYNN C. UITENBROEK

80 81 82 84

30' AT&T, WE ENERGIES, TIME WARNER UTILITY & DRAINAGE EASEMENT PER 2ND ADDITION CEDAR RIDGE PLAT

VOL D PLATS, PAGE 19
DOC #414131

20'X20' DRAINAGE EASEMENT PER 2ND ADDITION CEDAR RIDGE PLAT (TYPICAL)

30' AT&T, WE ENERGIES, TIME WARNER UTILITY & DRAINAGE EASEMENT PER 2ND ADDITION CEDAR RIDGE PLAT

MATCHLINE — SEE SHEET 4.09

MATCHLINE — SEE SHEET 4.11

TOWN ROAD

CTH LP

TLE-SLOPE 0.028 AC
TLE-SLOPE 0.039 AC
TLE-SLOPE 0.036 AC
TLE-SLOPE 0.033 AC
TLE-SLOPE 0.033 AC
TLE-SLOPE 0.040 AC
TLE-SLOPE 0.047 AC
TLE-SLOPE 0.023 AC
TLE-SLOPE 0.016 AC
TLE-SLOPE 0.233 AC

SLOPE INTERCEPT

AT&T TELEPHONE

TIME WARNER CABLE TELEVISION

WE ENERGIES ELECTRIC NO RECORDED EASMENT

WE ENERGIES UG GAS

AT&T UG FIBER UG TELEPHONE

AT&T 10' WIDE COMMUNICATION EASEMENT JACKET 1695 IMAGE 34-35 DOC * 213283 JACKET 1417 IMAGE 1-2 DOC *204163

SECTION LINE N00°13'12"E 2631.60'82

N00°13'12"E 144.54'

R=N00°00'42"W

T950 74+81.09 58.79'
T951 74+81.55 68.77'
T952 76+03.35 67.00'
T953 76+04.95 72.00'
T954 80+09.63 65.00'
T955 80+10.05 60.00'
T956 83+63.78 60.00'
T960 85+84.31 87.34'
T961 85+84.77 54.41'
T962 85+45.59 50.00'
T964 85+45.59 50.00'
T965 77+00.00 48.78'
T966 76+99.17 58.75'

EXISTING RW CORNER

EXIST. R/W

SIXTEENTH LINE

ETHAN DRIVE

DETAIL NOT TO SCALE

R/W POINTS STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS
900	74+16.64	24.75'	547782.889	838855.648
901	74+80.68	49.96'	547846.753	838824.531
902	74+81.09	58.79'	547846.664	838815.697
905	85+85.45	5.32'	548954.142	838860.146
906	85+85.40	0.00'	548954.094	838865.470
907	85+84.59	89.38'	548953.297	838954.853
908	85+40.64	45.00'	548909.338	838910.479
909	74+28.28	0.00'	547797.475	838878.851
910	74+45.23	33.75'	547817.507	838910.718
911	74+01.91	58.11'	547763.343	838824.555
912	85+56.27	50.00'	548924.946	838815.476
913	85+84.31	87.34'	548952.983	838778.127
1111	500+82.38	79.56'	547693.030	838959.926
1112	500+18.25	180.72'	547714.146	838938.925

R/W COURSE TABLE

COURSE	BEARING	DISTANCE
900-911	S57°50'44"W	36.73'
911-901	N00°00'58"W	83.41'
901-902	S89°25'29"W	8.84'
902-912	N00°00'42"W	1078.28'
912-913	N53°06'15"W	46.70'
913-905	N89°11'27"E	82.03'
905-906	S89°29'21"E	5.32'
906-907	S89°29'21"E	89.39'
907-908	S45°16'09"W	62.46'
908-910	S00°00'42"E	1091.83'
910-909	S57°50'44"W	37.64'
909-900	S57°50'44"W	27.41'

PARCEL 59 TLE (4.09 & 4.10)

COURSE	BEARING	DISTANCE
910-908	N00°00'42"W	1091.83'
908-T964	N45°14'58"E	7.04'
T964-T965	S00°00'42"E	841.97'
T965-T966	N89°59'18"E	10.00'
T966-T967	S00°00'42"E	296.82'
T967-T968	S35°37'45"E	101.65'
T968-1112	N89°38'54"W	25.00'
1112-1111	N44°50'38"W	29.78'
1111-910	N15°15'51"W	107.14'

PARCEL 59 TLE

COURSE	BEARING	DISTANCE
907-T960	S89°29'21"E	50.24'
T960-T961	S00°33'01"W	6.92'
T961-T962	N89°26'59"W	57.05
T962-907	N45°16'09"E	9.69'

REVISION DATE 9/29/2017
6/1/2018 NC

DATE: 07/14/2017

GRID FACTOR N/A

SCALE, FEET 0 50 100

HWY: CTH LP

COUNTY: CALUMET

STATE R/W PROJECT NUMBER: 4992-00-56

CONSTRUCTION PROJECT NUMBER: 4992-00-57

PLAT SHEET 4.10

PS&E SHEET 137

E

FILE NAME : 45040100-RWPL _4.08-4.10.DWG

PLOT DATE : 6/1/2018 11:42 AM

PLOT BY : CAPPEART, JAMES

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
905-913	S89°11'27"W	82.03'
913-1012	N53°06'15"W	9.08'
1012-1011	N05°07'40"E	73.98'
1011-1000	N45°05'59"E	53.60'
1000-1004	N00°00'42"W	98.72'
1004-1005	N89°59'18"E	45.54'
1005-1006	N89°59'18"E	4.46'
1006-1007	N89°59'18"E	45.00'
1007-1008	S00°00'42"E	70.87'
1008-1009	S44°27'51"E	103.38'
1009-1010	S00°30'39"W	71.00'
1010-907	N89°29'21"W	116.76'
907-906	N89°29'21"W	89.39'
906-905	N89°29'21"W	5.32'

R/W POINTS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
905	85+85.45	5.32'	548954.142	838860.146
906	85+85.40	0.00'	548954.094	838865.470
913	85+84.31	87.34'	548952.983	838778.127
1000	87+01.28	50.00'	549069.959	838815.446
1004	88+00.00	50.00'	549168.680	838815.426
1005	88+00.00	4.46'	549168.689	838860.971
1006	88+00.00	0.00'	549168.690	838865.426
1007	88+00.00	45.00'	549168.699	838910.426
1008	87+29.13	45.00'	549097.831	838910.440
1009	86+55.34	117.40'	549024.050	838982.854
1010	85+84.34	116.75'	548953.053	838982.221
1011	86+63.45	87.98'	549032.122	838777.477
1012	85+89.76	94.60'	548958.436	838770.864

CURVE TABLE					
CURVE	COURSE	LENGTH	RADIUS	LONG CHORD	LONG CHORD BEARING
C1	T1061-T1069	11.93'	74.50'	11.92'	S16°24'55"E

NOTES:

EXISTING RIGHT-OF-WAY SHOWN HEREON IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT OF WAY FOR CTH LP ESTABLISHED FROM PREVIOUS CTH LP IMPROVEMENT PROJECT - DATED 1990 AND ROAD ORDER IN VOLUME H, PAGE 518 AS DOCUMENT *36874.

EXISTING HIGHWAY RIGHT OF WAY FOR MIDWAY ROAD SHOWN HEREIN IS BASED ON CSM 3197 AND CSM 3160.

EXISTING HIGHWAY RIGHT OF WAY FOR TOWN ROAD SHOWN HEREIN IS BASED ON DOCUMENT *388178.

EXISTING HIGHWAY RIGHT OF WAY FOR ETHAN DRIVE SHOWN HEREIN IS BASED ON SECOND ADDITION TO CEDAR RIDGE PLAT.

EXISTING ACCESS CONTROL ALONG CTH LP ESTABLISHED FROM SECOND ADDITION TO CEDAR RIDGE PLAT.

REVISION DATE 9/29/2017 6/1/2018 NC	DATE: 07/14/2017	SCALE, FEET 0 50 100	HWY: CTH LP	STATE R/W PROJECT NUMBER: 4992-00-56	PLAT SHEET 4.11
	GRID FACTOR N/A		COUNTY: CALUMET	CONSTRUCTION PROJECT NUMBER: 4992-00-57	PS&E SHEET 138 E

FILE NAME : 45040100-RWPL _4.08-4.10.DWG PLOT DATE : 6/1/2018 11:41 AM PLOT BY : CAPPEART, JAMES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
110	22+40	NW BOLT LP BASE-31' RT.	780.34
109	31+33	NE BOLT LP BASE-289' LT.	782.63

BEGIN PROJECT
STA. 21+84.12

CP#7
5/8-INCH REBAR
STA. 19+63.26
31.21' RT.
Y=542338.438
X=838837.161

BP: 19+99.84

FIRELANE 8

OLD HIGHWAY RD.

USH 10/STH 114

CONSTRUCTION LIMITS
STA. 99+00

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

SLOPE
INTERCEPTS

STA. 33+10.32 CTH LP=
STA. 100+00.00 COMMUNITY WAY
Y=543100.614
X=838811.559

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

SLOPE
INTERCEPTS

CONSTRUCTION LIMITS
STA. 198+80

CONCRETE CURB AND GUTTER
18-INCH TYPE D REQ'D.

CP#6
5/8-INCH REBAR
STA. 32+64.48
63.12' LT.
Y=543640.321
X=838752.414

STA. 33+10.32 CTH LP=
STA. 200+00.00 SONNY DR.
Y=543685.693
X=838815.866

CONSTRUCTION LIMITS
STA. 201+45

PRIVATE ROAD

SONNY DRIVE

CTH LP

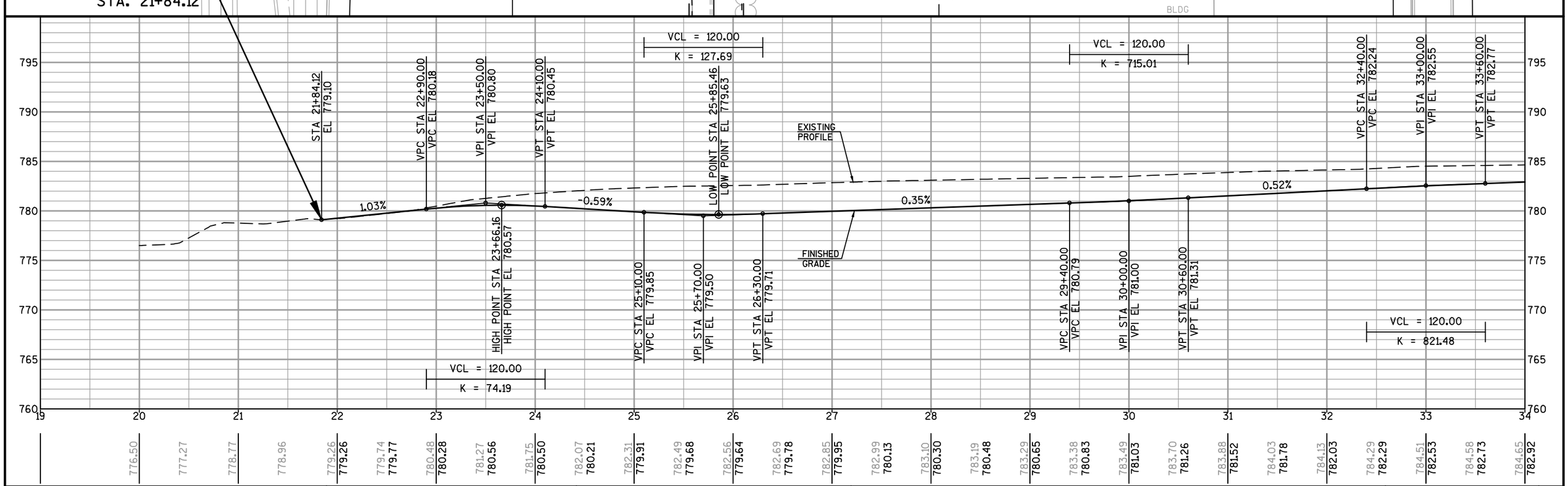
N00°25'18"E

S89°34'23"E

S89°48'21"E

ASPH PARKING LOT

BLDG



PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	PLAN AND PROFILE: CTH LP	SHEET 139	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\050101 PP.DWG
LAYOUT NAME - 050101 PP - 050101 PP
PLOT DATE : 3/28/2018 6:57 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
108	38+67	SPK IN PP#90-212718-49' LT.	784.50
107	46+74	SPK IN LP-93' RT.	792.48	

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

SLOPE
INTERCEPTS

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

SLOPE
INTERCEPTS

CONSTRUCTION LIMITS
STA. 298+35

PI: 46+33.64
Y=545008.977
X=838825.606

BP: 298+26.99

STA. 46+36.50 CTH LP=
STA. 300+00.00 VILLA WAY
Y=545011.839
X=838825.639

CP*5
5/8-INCH REBAR
STA. 47+10.71
57.51' LT.
Y=545086.701
X=838768.984

PT: 298+99.09

STA. 46+29.26 CTH LP=
STA. 300+00.00 WOODLAND RD.
Y=545004.539
X=838825.562

CONSTRUCTION LIMITS
STA. 301+70

PI: 302+00.00

CTH LP
N00°25'18"E
N00°39'34"E
S89°50'57"E
S89°50'45"E
VILLA WAY
WOODLAND RD.
P.I.
10"PCP
18" CMP
36" CMP
SAMH
SAN
ATT FO
ATT
OH
W
PLT
SIGN
HOUSE
SHED
BARN
CABC
CABC PE
ASPH
ASPH PE
ASPH PARKING LOT
ASPH PAD
BUILDING
XXXX
XXX
TYPED
FMH
BM 107

VCL = 120.00
K = 172.39

VCL = 120.00
K = 321.18

VCL = 120.00
K = 572.73

EXISTING
PROFILE

FINISHED
GRADE

0.37%
1.07%
0.86%

VPC STA 40+90.00
VPC EL 785.48

VPI STA 41+50.00
VPI EL 785.70

VPT STA 42+10.00
VPT EL 786.34

VPC STA 45+40.00
VPC EL 789.86

VPI STA 46+00.00
VPI EL 790.50

VPT STA 46+60.00
VPT EL 791.01

VPC STA 48+90.00
VPC EL 792.99

805 800 795 790 785 780 775 770

34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

784.65 782.92 | 784.80 783.11 | 784.94 783.29 | 785.12 783.48 | 785.33 783.66 | 785.57 783.85 | 785.70 784.03 | 785.76 784.22 | 785.84 784.40 | 785.99 784.59 | 786.15 784.77 | 786.28 784.96 | 786.44 785.14 | 786.65 785.33 | 786.70 785.52 | 786.84 785.80 | 787.11 786.24 | 787.44 786.77 | 787.75 787.30 | 788.02 787.83 | 788.26 788.37 | 788.56 788.90 | 788.89 789.43 | 789.27 789.97 | 789.64 790.47 | 790.09 790.93 | 790.63 791.36 | 791.18 791.79 | 791.72 792.21 | 792.25 792.64 | 792.83 793.07

PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	PLAN AND PROFILE: CTH LP	SHEET 140	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\050102 PP.DWG
LAYOUT NAME - 050102 PP - 050102 PP

PLOT DATE : 3/28/2018 6:57 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

N

SLOPE
INTERCEPTS

CONSTRUCTION LIMITS
STA. 398+35

WINNIPEG ST.

N89°32'19"E

CP*4
5/8-INCH REBAR
STA. 58+30.39
46.06' LT.
Y=546206.173
X=838793.326

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
106	52+42	BURY BOLT ON HYDRANT-48' LT.	798.41
105	57+42	BURY BOLT ON HYDRANT-74' LT.	802.44	

PI: 62+13.98
Y=546589.212
X=838843.795

CTH LP

N00°39'34"E

N01°11'56"E

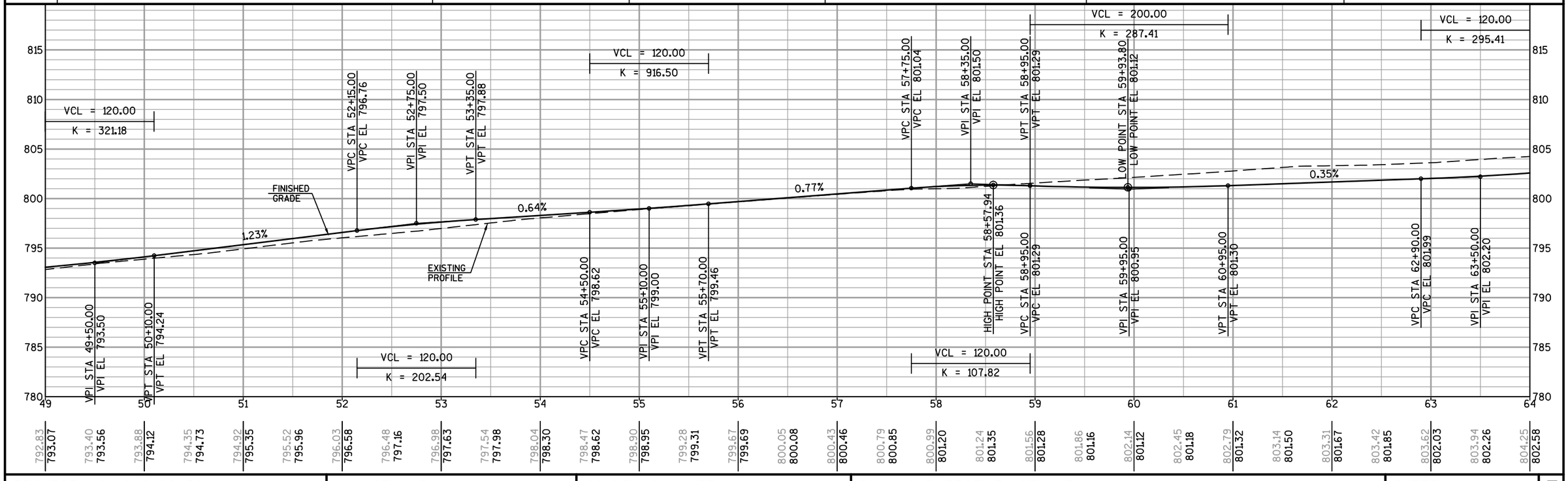
CP*10
5/8-INCH REBAR
STA. 52+77.17
25.77' RT.
Y=545652.171
X=838858.783

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

SLOPE
INTERCEPTS

STA. 57+72.49 CTH LP=
STA. 400+00.00 WINNIPEG ST.
Y=546147.747
X=838838.714



792.83	793.07	793.40	793.56	793.88	794.12	794.35	794.73	794.92	795.35	795.52	795.96	796.03	796.58	796.48	797.16	796.98	797.63	797.54	797.98	798.04	798.30	798.47	798.62	798.90	798.95	799.28	799.31	799.67	799.69	800.05	800.08	800.43	800.46	800.79	800.85	800.99	801.20	801.24	801.35	801.56	801.28	801.86	801.16	802.14	801.12	802.45	801.18	802.79	801.32	803.14	801.50	803.31	801.67	803.42	801.85	803.62	802.03	803.94	802.26	804.25	802.58

PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	PLAN AND PROFILE: CTH LP	SHEET 141 E

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

SLOPE
INTERCEPTS

CP*3
5/8-INCH REBAR
STA. 72+11.03NB
56.05' LT.
Y=547607.737
X=838814.405

PC: 69+16.76
PRC: 69+50.26
PCC: 70+00.52
PT: 70+97.29
PC: 71+62.33
PT: 72+11.36
PC: 73+50.43
PT: 75+39.18
PC: 76+18.40
PRC: 76+77.59
PT: 77+36.79

MANITOWOC RD.

64 CTH LP N01°11'56"E 66 68 72 74 76 78 N00°00'42"W

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

SLOPE
INTERCEPTS

HOUSE
SHED
WOODS
CABC

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
103	71+96EB	BURY BOLT ON HYDRANT-142' LT.	809.88

VCL = 120.00
K = 295.41

VCL = 120.00
K = 355.86

VCL = 120.00
K = 70.58

EXISTING
PROFILE

FINISHED
GRADE

0.76%
1.10%
1.05%

VPT STA 64+10.00
VPT EL 802.66

VPC STA 68+90.00
VPC EL 806.30

VPI STA 69+50.00
VPI EL 806.75

VPT STA 70+10.00
VPT EL 807.41

STA 72+18.36
EL 809.69

STA 73+50.43
EL 810.24

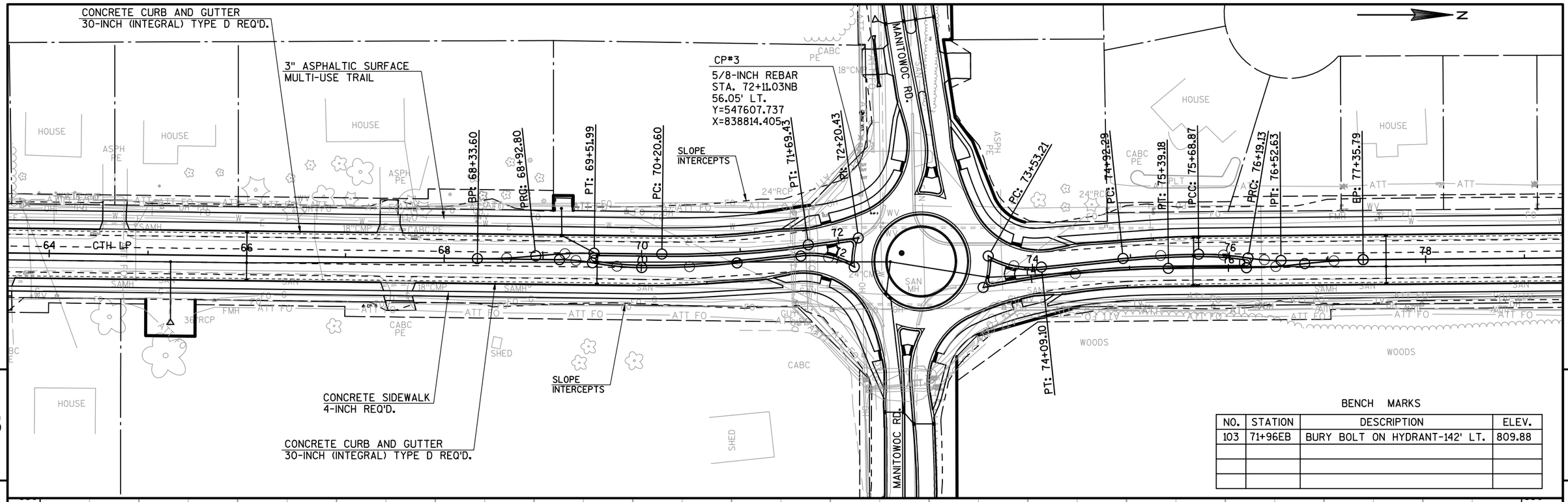
VPC STA 74+90.00
VPC EL 808.78

VPI STA 75+50.00
VPI EL 808.15

LOW POINT STA 75+63.92
LOW POINT EL 808.39

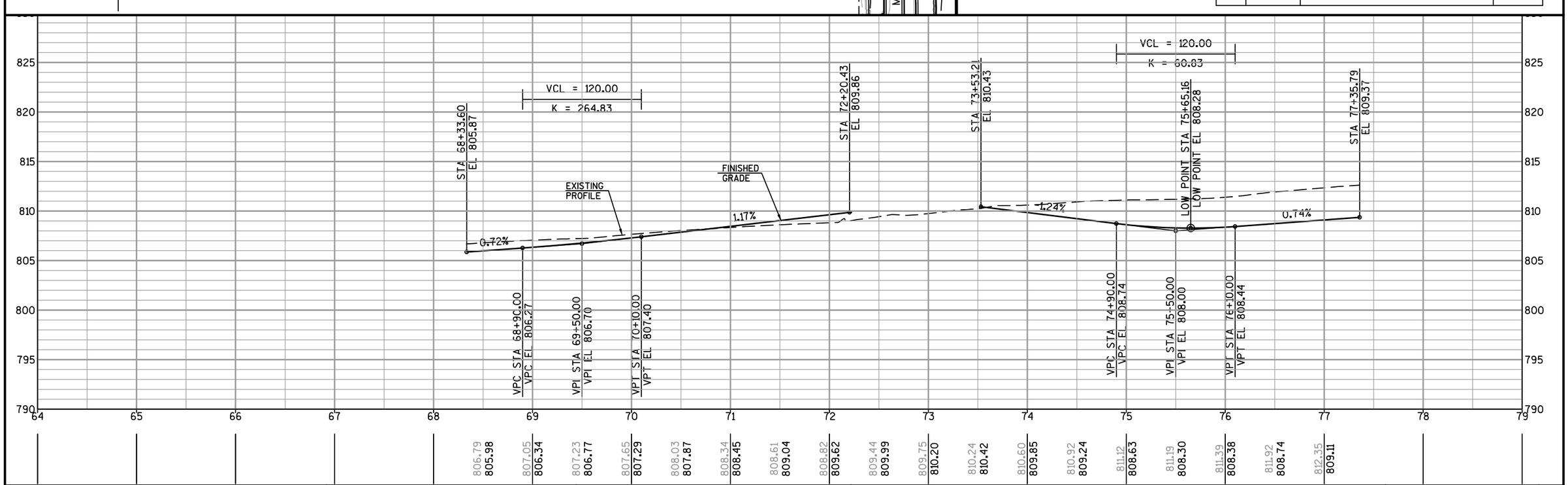
VPT STA 76+10.00
VPT EL 808.54

| | | |



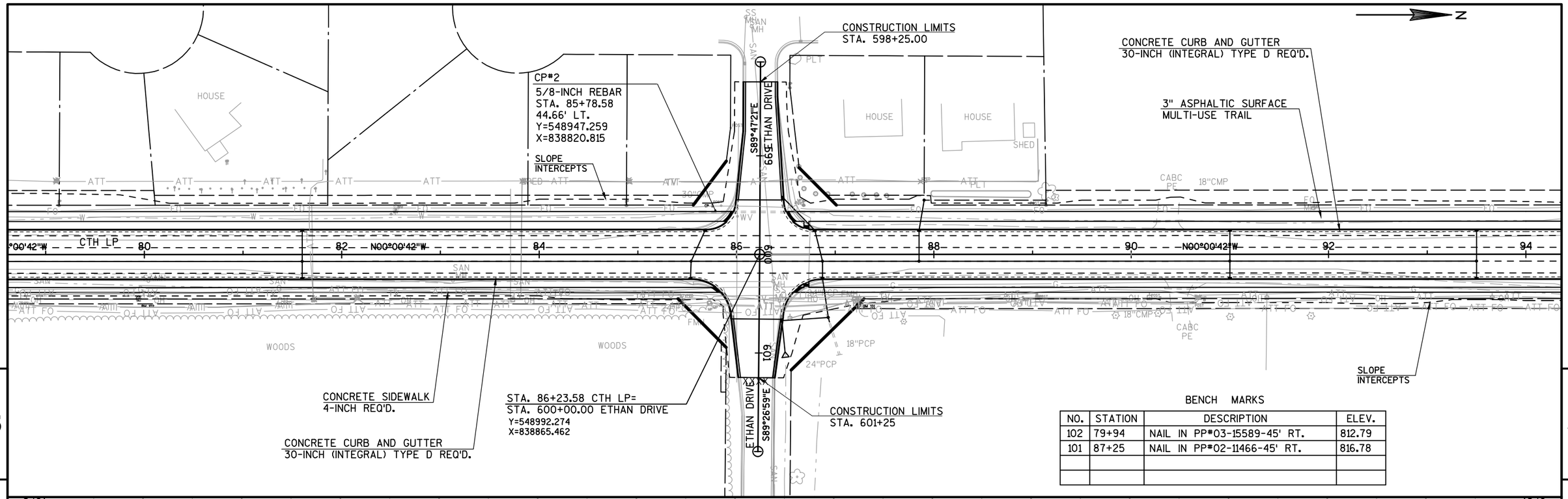
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
103	71+96EB	BURY BOLT ON HYDRANT-142' LT.	809.88



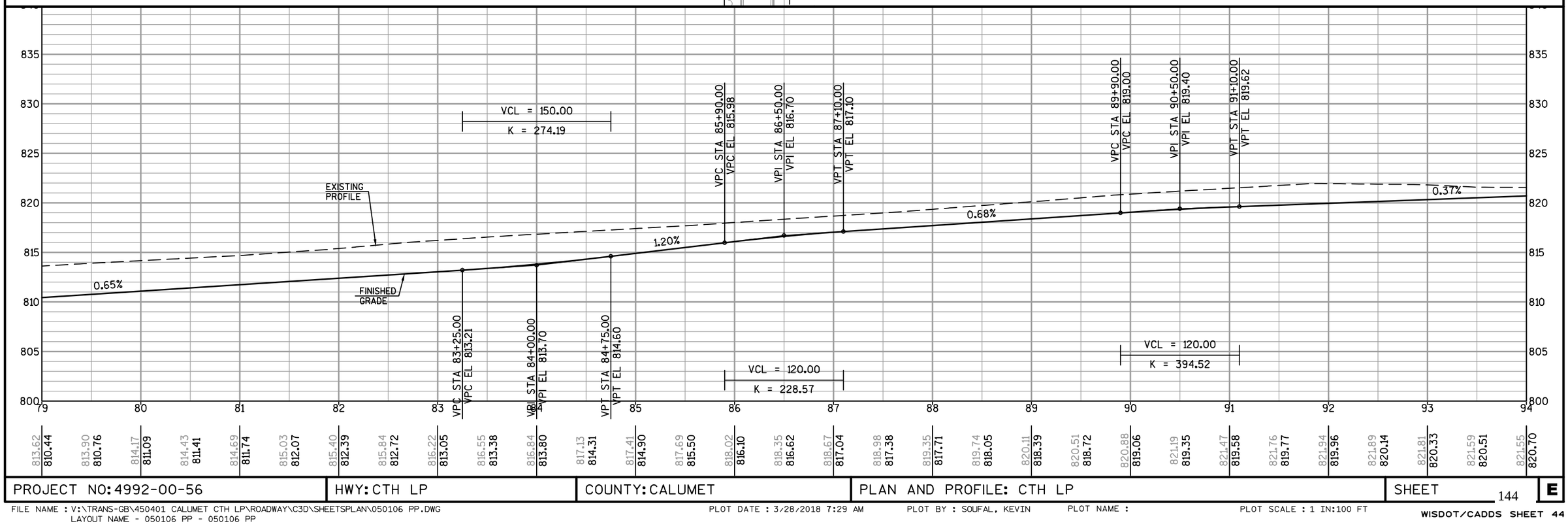
PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	PLAN AND PROFILE: CTH LP SOUTHBOUND	SHEET 143	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\050105 PP.DWG
LAYOUT NAME - 050105 PP - 050105 PP
PLOT DATE : 3/28/2018 7:21 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

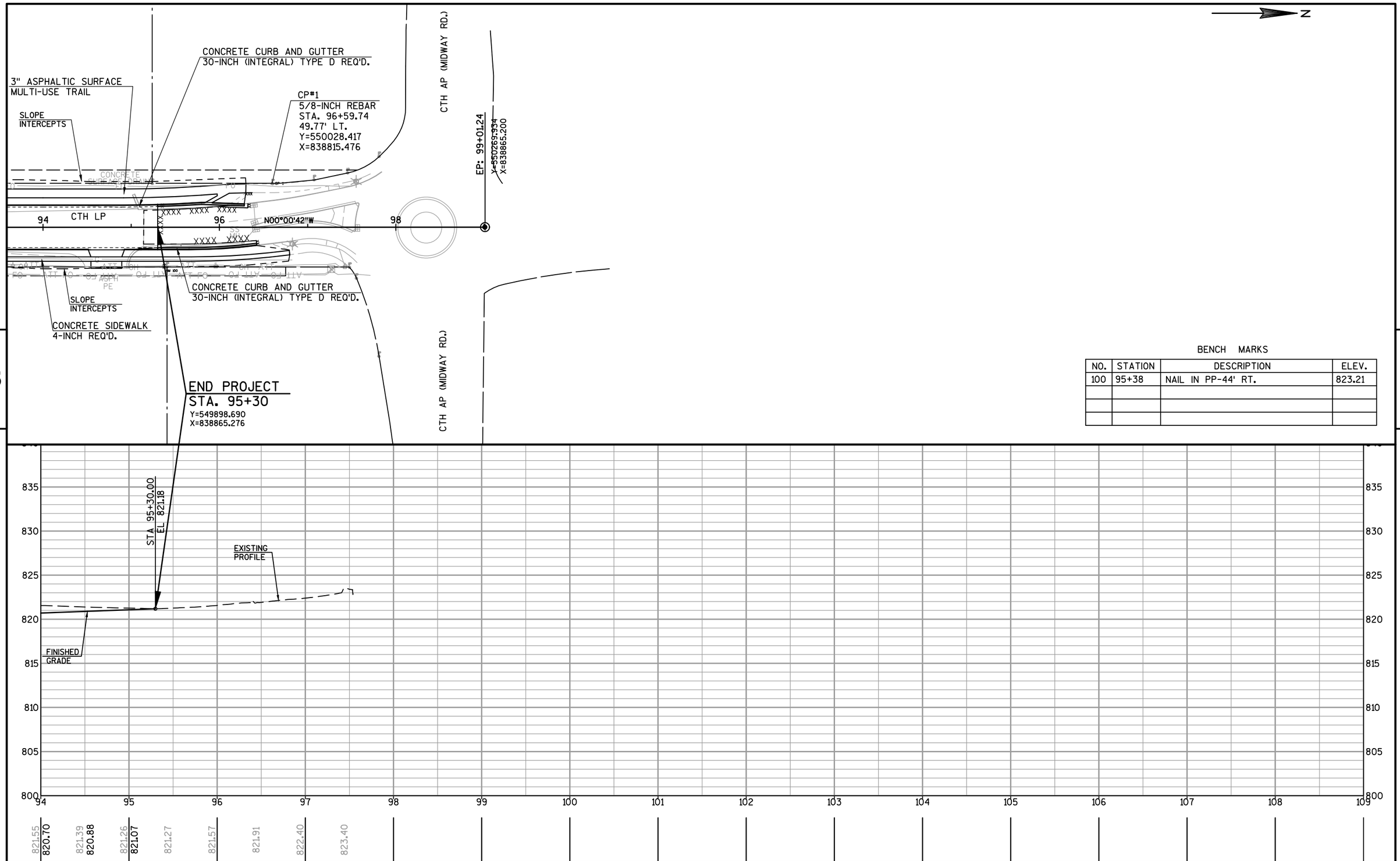


BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
102	79+94	NAIL IN PP#03-15589-45' RT.	812.79
101	87+25	NAIL IN PP#02-11466-45' RT.	816.78



PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	PLAN AND PROFILE: CTH LP	SHEET 144 E



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
100	95+38	NAIL IN PP-44' RT.	823.21

PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	PLAN AND PROFILE: CTH LP	SHEET 145 E

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

3" ASPHALTIC SURFACE
MULTI-USE TRAIL

SLOPE
INTERCEPTS

CP#3
5/8-INCH REBAR
STA. 72+11.03NB
56.05' LT.
Y=547607.737
X=838814.405

MANITOWOC RD.

BP: -0+00.00

EP: 3+14.16

CTH LP

24"RCP

24"CMP

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE
INTERCEPTS

CONCRETE CURB AND GUTTER
30-INCH (INTEGRAL) TYPE D REQ'D.

WOODS

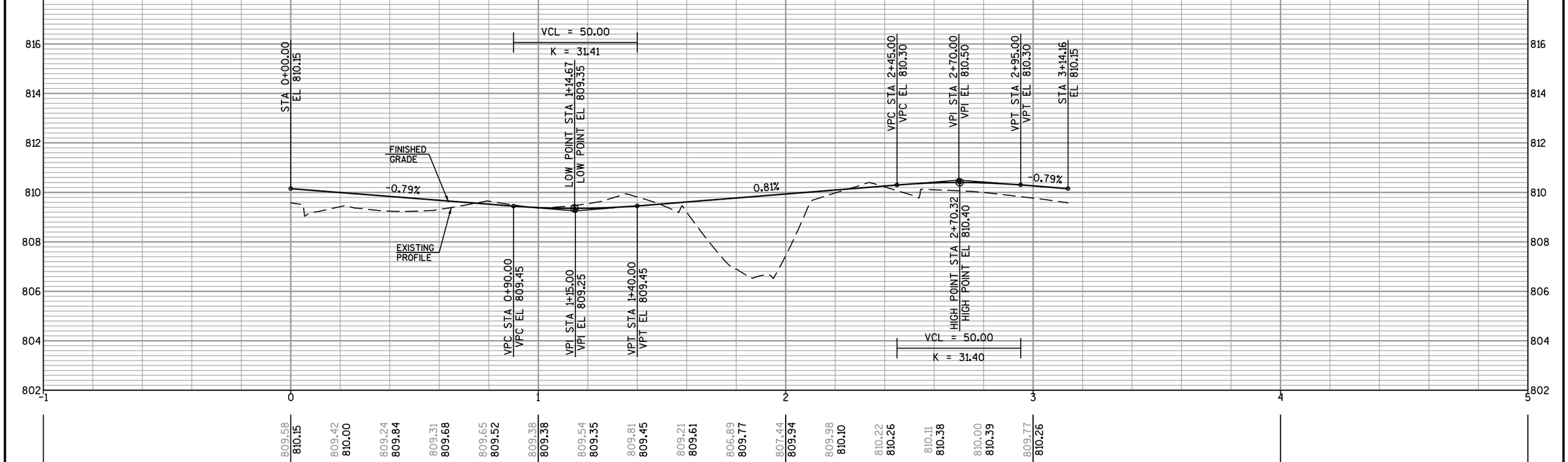
PLT

IP

N

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
103	71+96EB	BURY BOLT ON HYDRANT-142' LT.	809.88

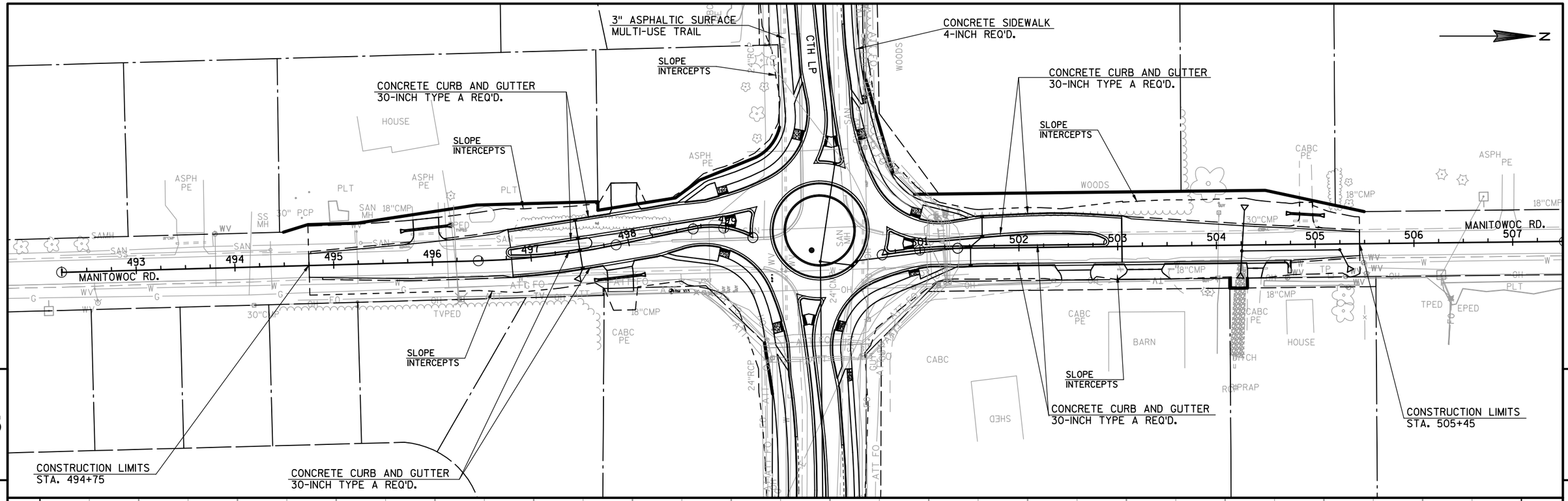


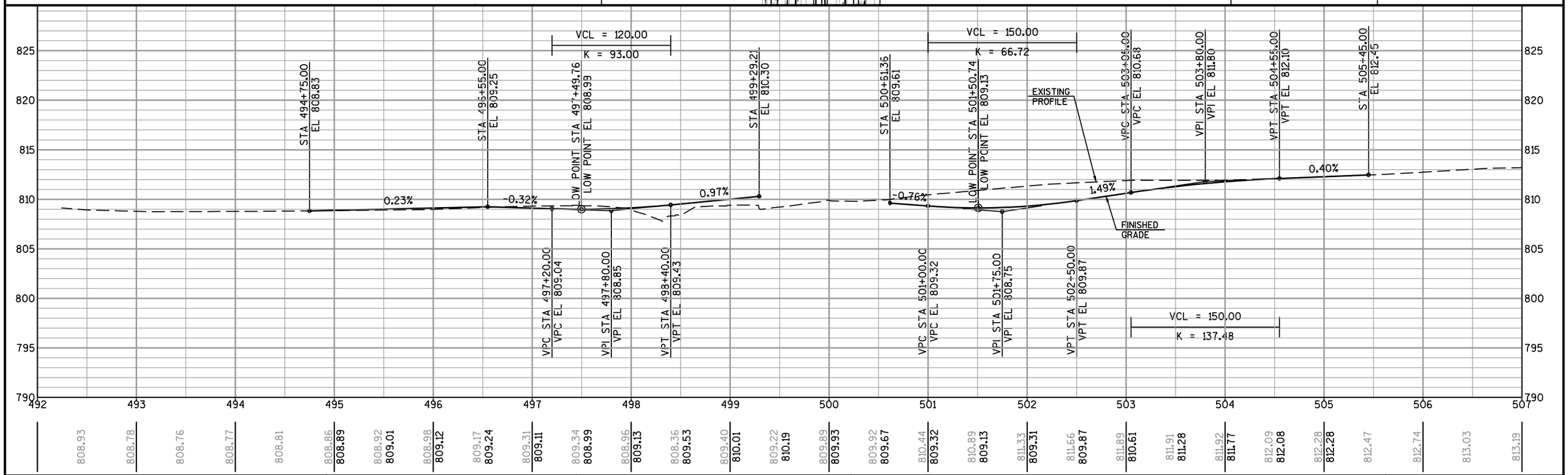
PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	PLAN AND PROFILE: CTH LP RAB CENTER CIRCLE	SHEET 146 E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\050108 PP.DWG
LAYOUT NAME - 050108 PP - 050108 PP

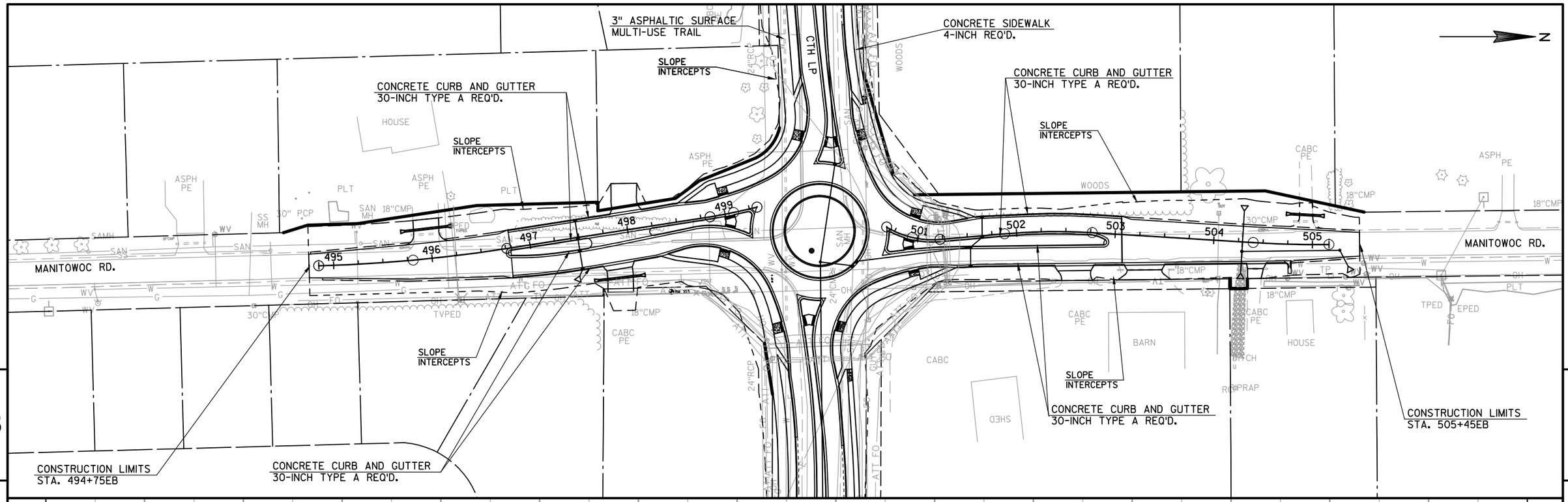
PLOT DATE : 3/28/2018 7:37 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:40 FT

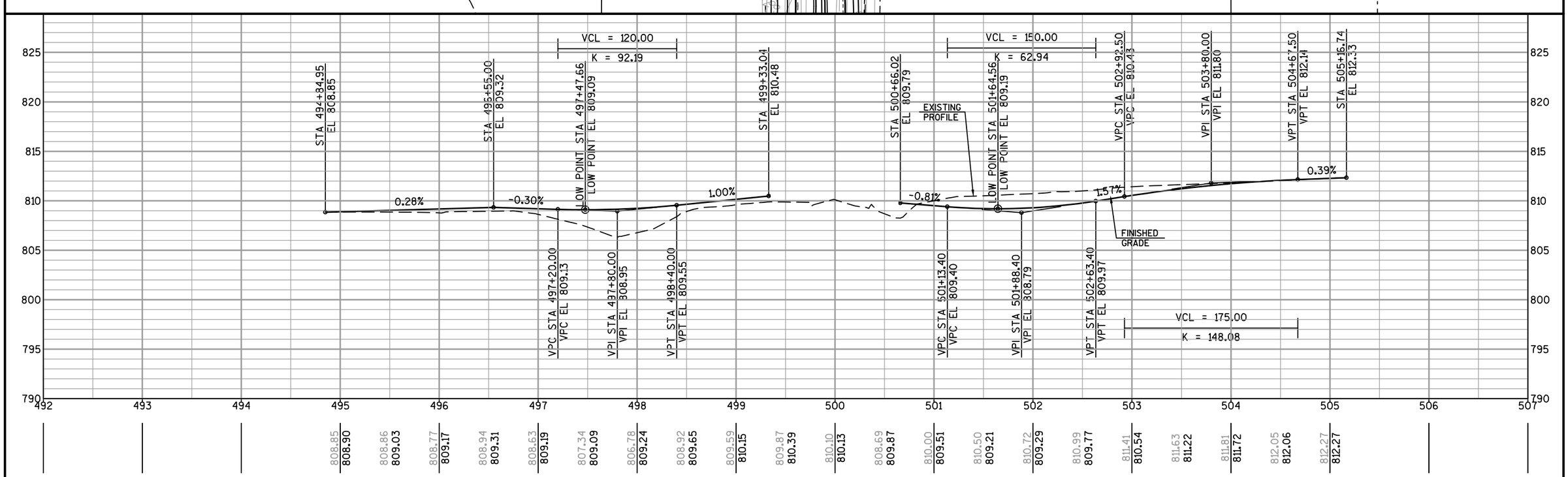
WISDOT/CADDS SHEET 44





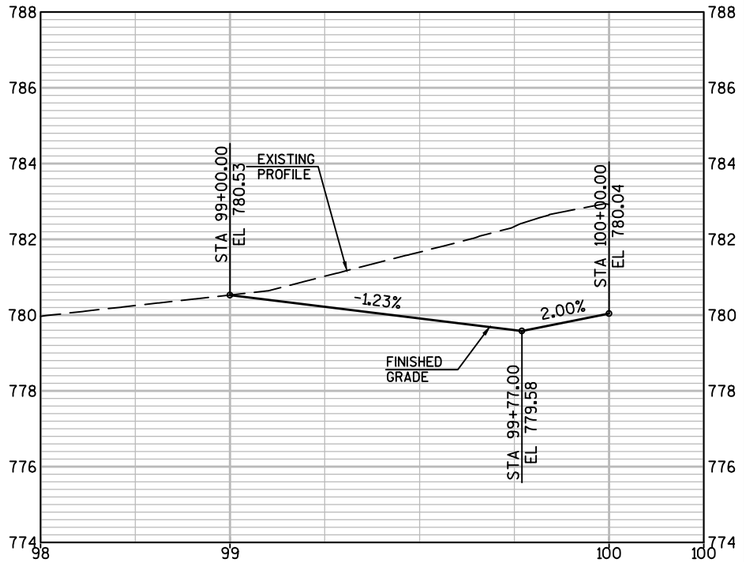
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN AND PROFILE: MANITOWOC RD. EASTBOUND	SHEET 147	E





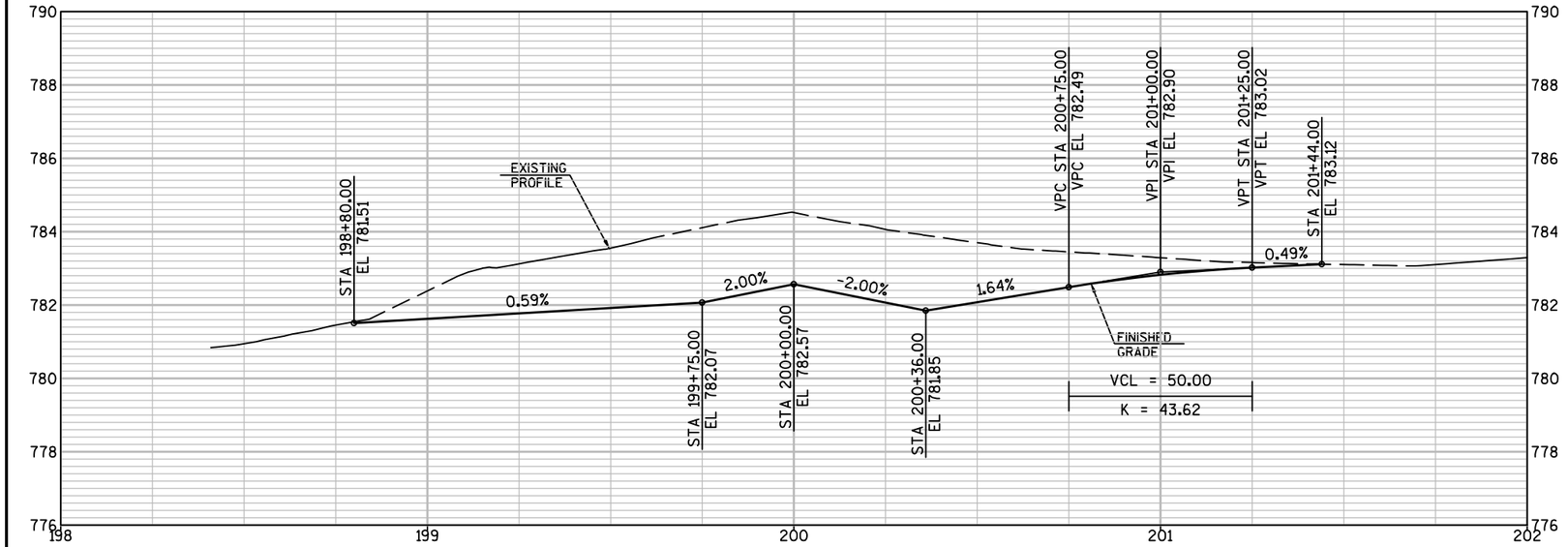
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	PLAN AND PROFILE: MANITOWOC RD. WESTBOUND	SHEET 148	E

COMMUNITY WAY PROFILE



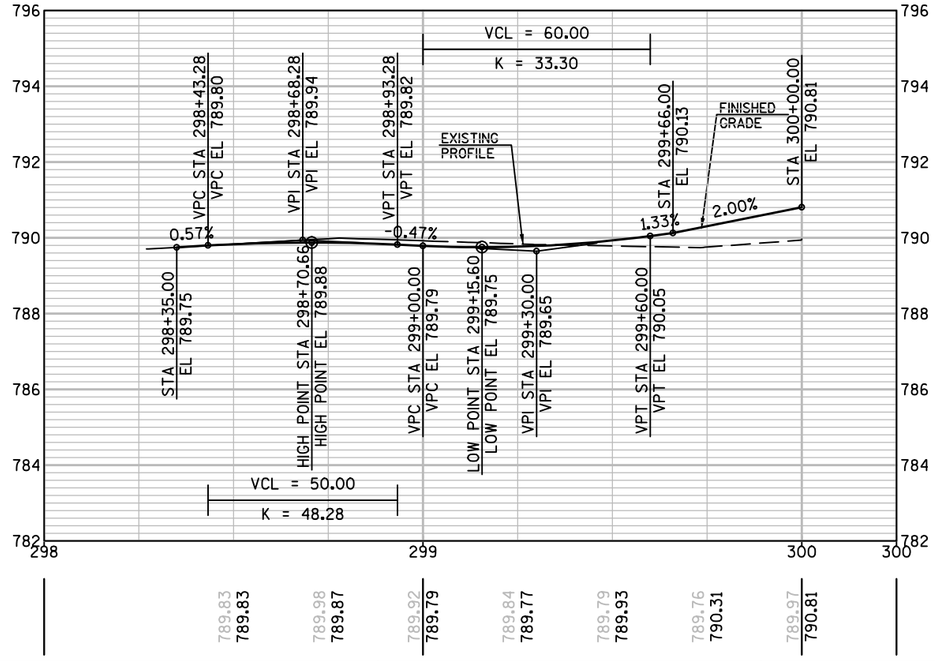
779.97	780.25	780.53	781.03	781.66	782.34	782.92
		780.53	780.22	779.91	779.60	780.04

SONNY DRIVE PROFILE



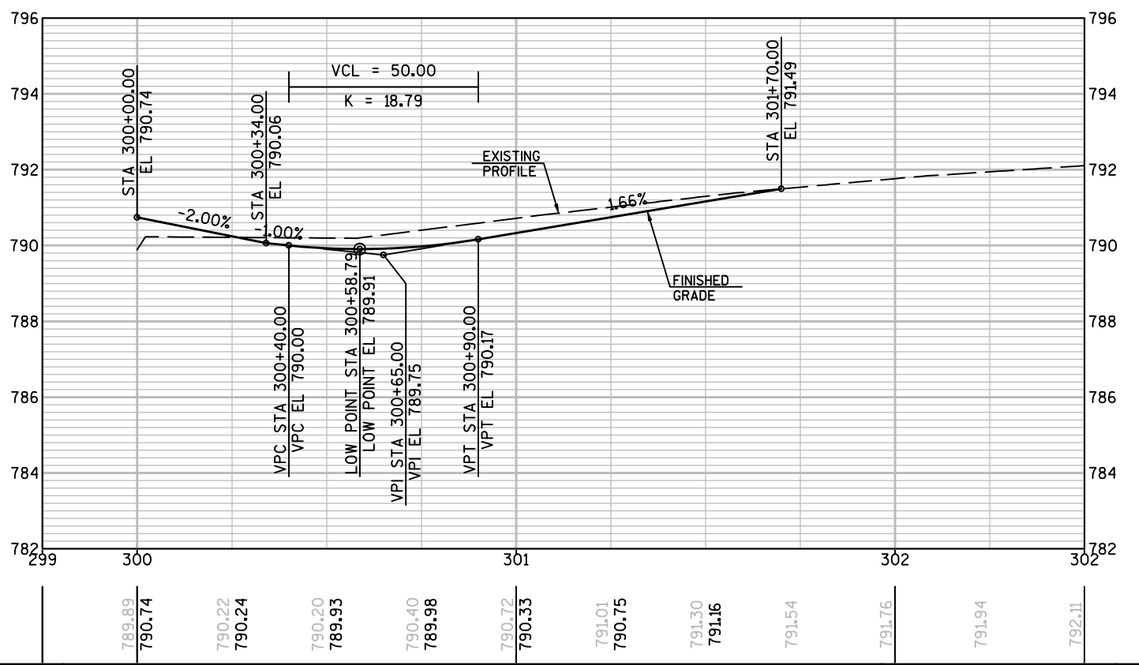
780.95	781.46	782.39	783.13	783.56	784.11	784.52	784.06	783.70	783.45	783.29	783.16	783.11	783.11	783.29
		781.63	781.78	781.92	782.07	782.57	782.07	782.08	782.49	782.83	783.02			

VILLA WAY PROFILE



789.83	789.98	789.92	789.84	789.79	789.76	789.97
789.83	789.87	789.79	789.77	789.93	790.31	790.81

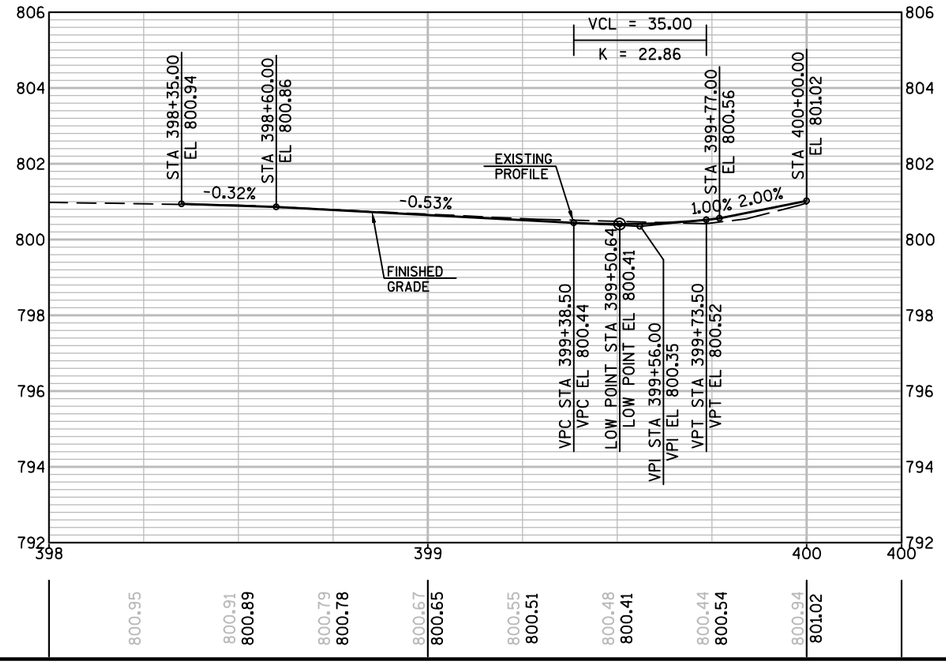
WOODLAND ROAD PROFILE



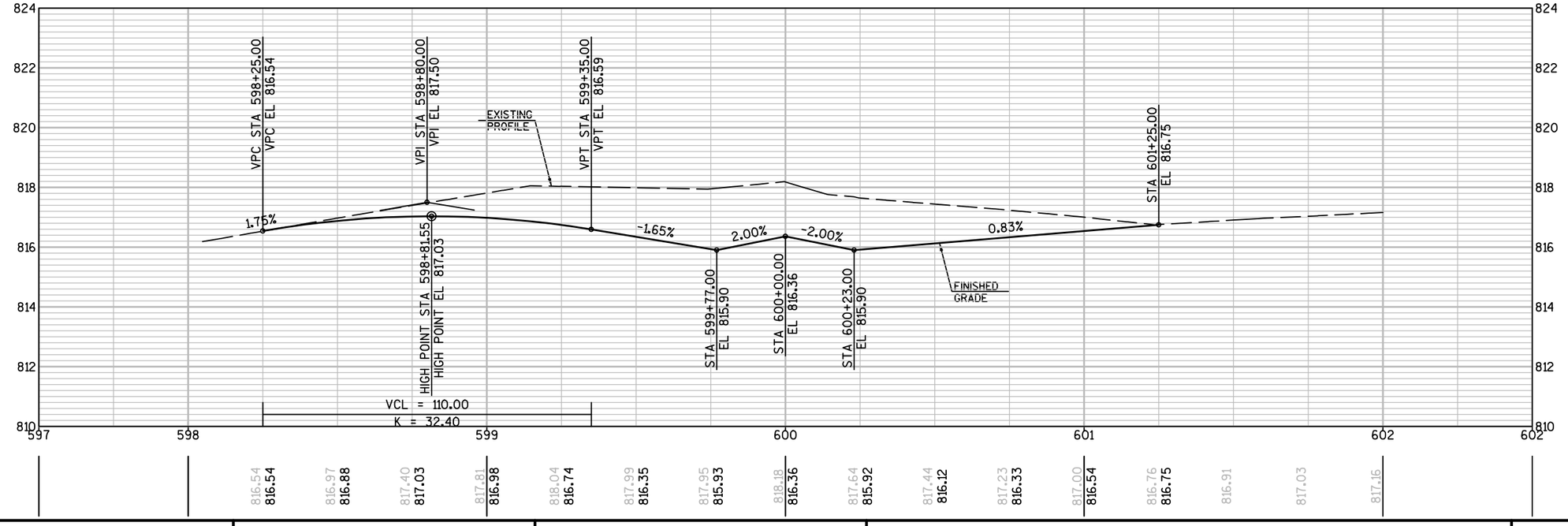
789.89	790.22	790.20	790.40	790.72	791.01	791.30	791.54	791.76	791.94	792.11
790.74	790.24	789.93	789.98	790.33	790.75	791.16				

PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	SIDE ROAD PROFILES	SHEET 149	E

WINNIPEG STREET PROFILE



ETHAN DRIVE PROFILE

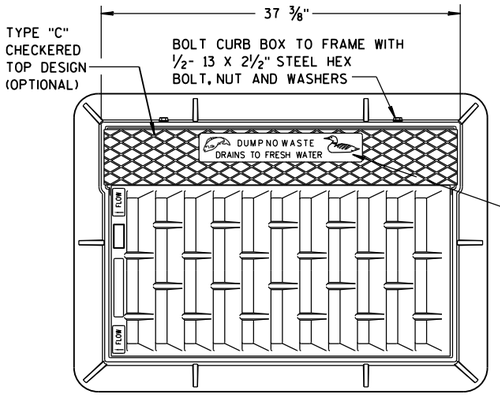


PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	SIDE ROAD PROFILES	SHEET 150	E

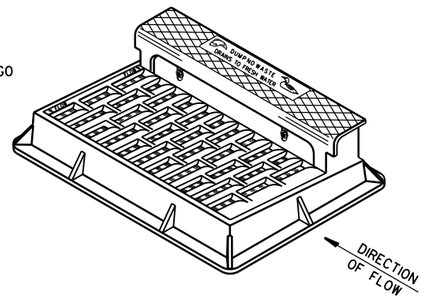
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08A09-02	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B16-01	PULL BOX NON-CONDUCTIVE
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
11B02-02	CONCRETE MEDIAN NOSE
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C18-06A	CONCRETE PAVEMENT JOINTING
13C18-06B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-06C	CONCRETE PAVEMENT JOINT TYPES
13C18-06D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-06E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C18-06F	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
14A02-01	TREE PLANTING DETAIL
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-04	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-14A	PAVEMENT MARKING SYMBOLS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C29-05A	BICYCLE LANE MARKING
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

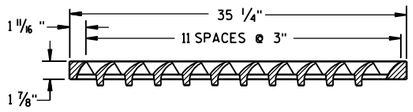
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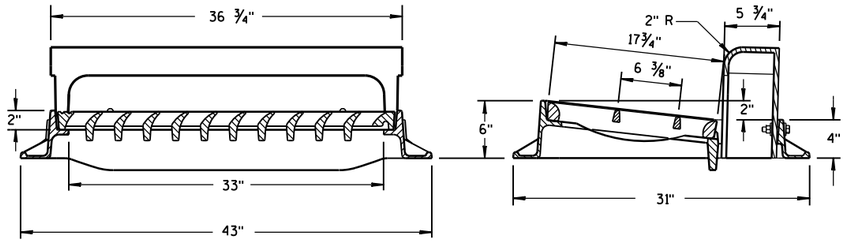


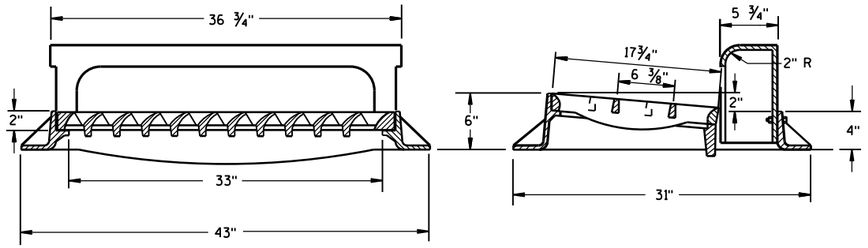
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

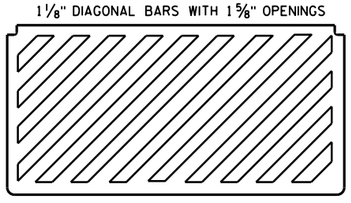






TYPE "H"

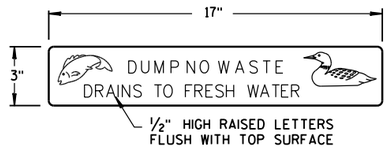
NOTE: EITHER CASTING IS ACCEPTABLE



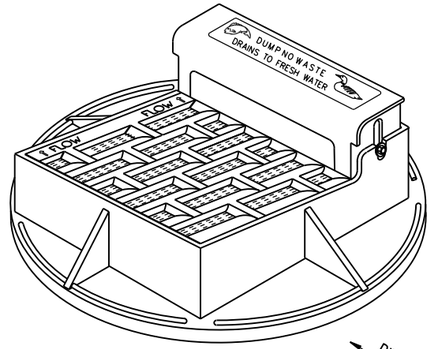
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

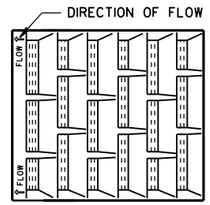
NOTE:
GRATE IS REVERSIBLE.

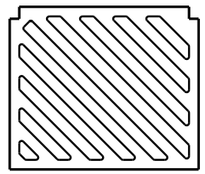
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

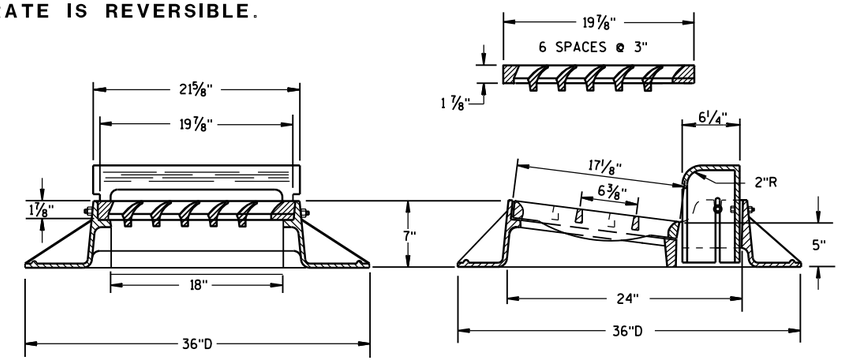




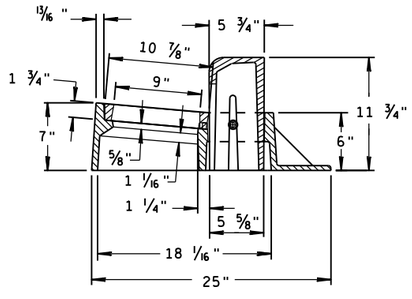
SPECIAL GRATE FOR TYPE "A" COVER

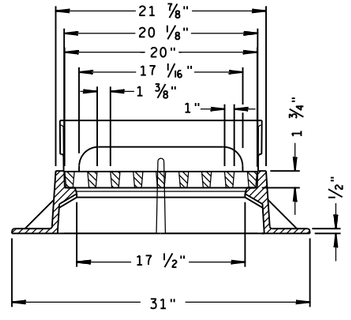
(MEASURES 19 3/4" X 17" X 1 7/8")

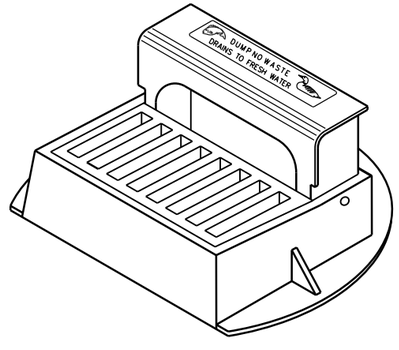
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

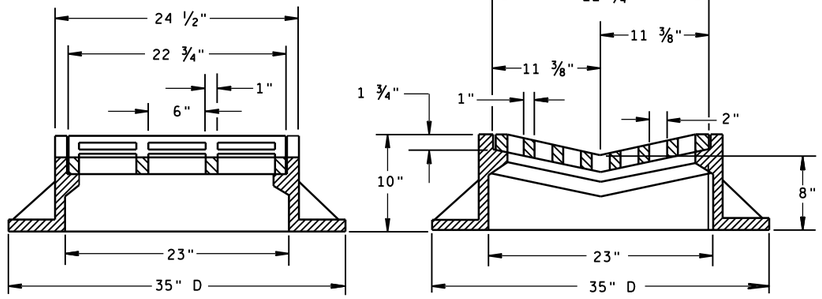
INLET COVERS
TYPE A, H, A-S, H-S & Z

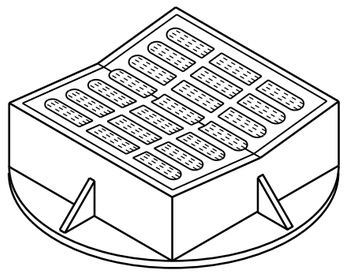
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

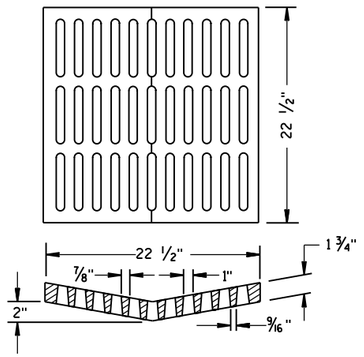
6

S.D.D. 8 A 5-19a



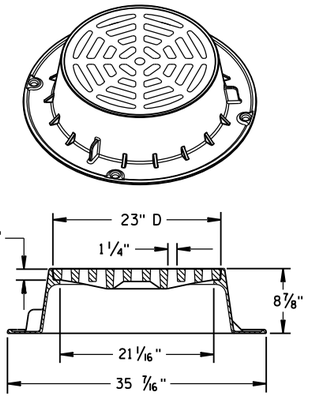


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

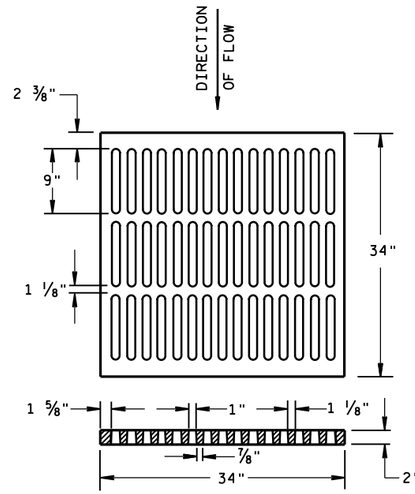
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

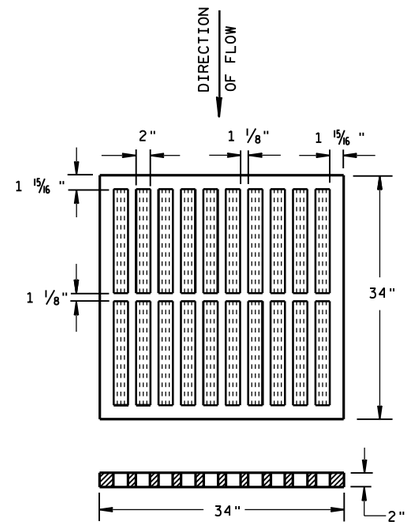
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



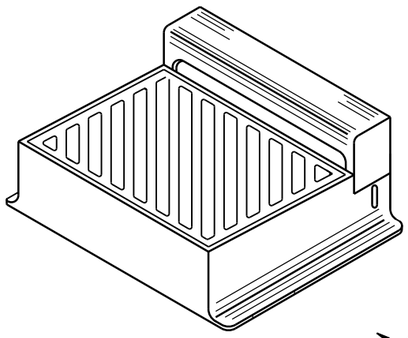
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

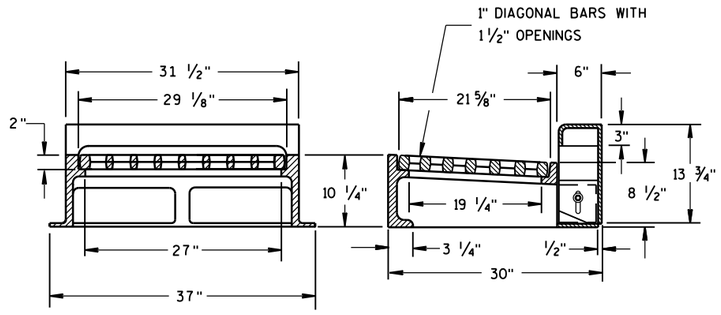


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

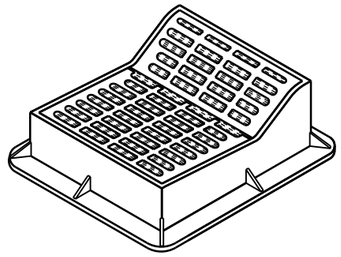
INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

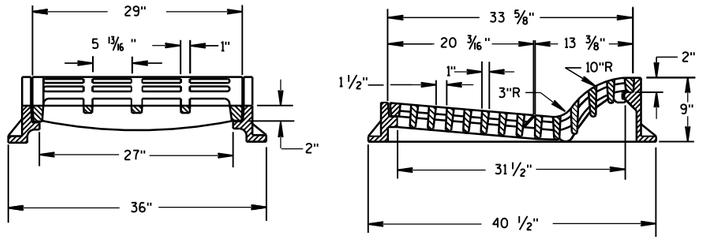
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

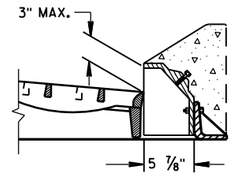
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

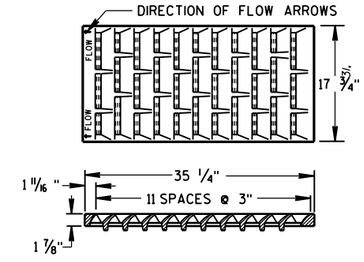
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

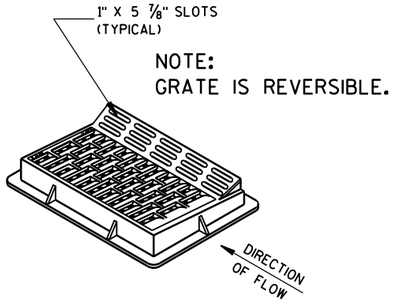
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

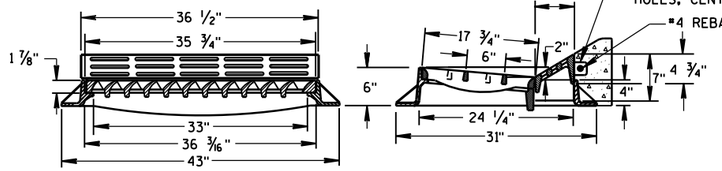
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



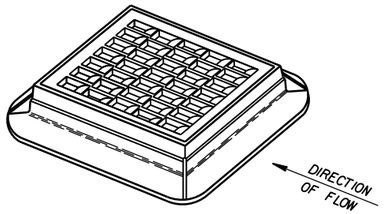


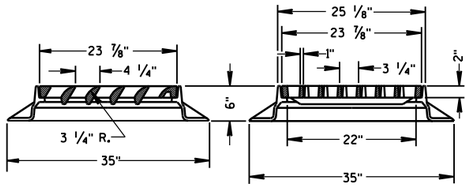


TYPE "HM"

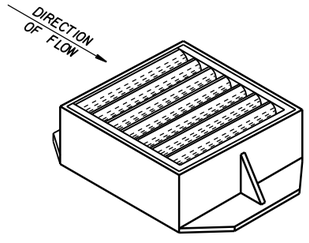
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

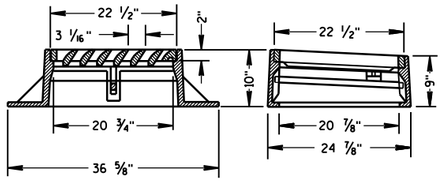
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



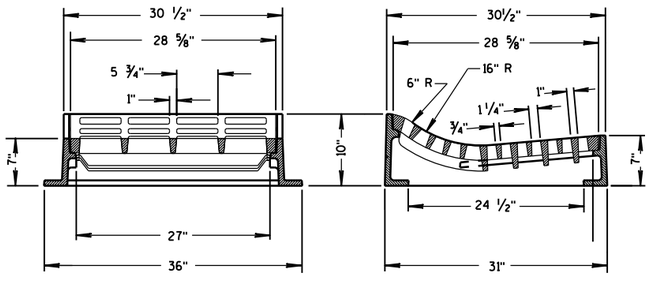


TYPE "S"



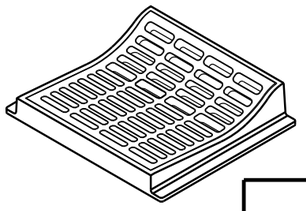


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

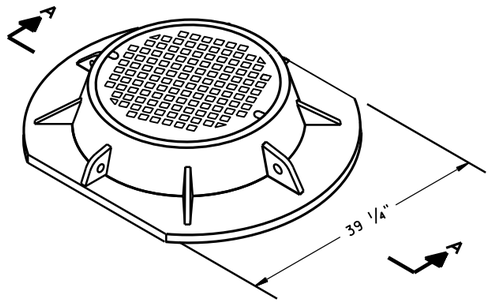
FHWA

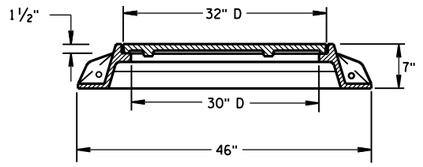
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S.D.D. 8 A 5-19c

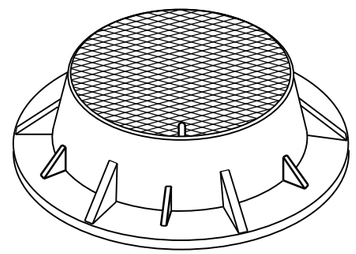
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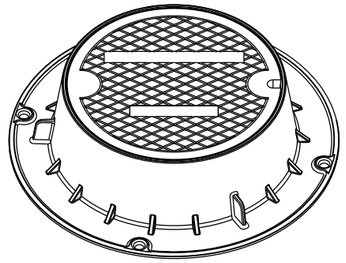
S.D.D. 8 A 5-19c

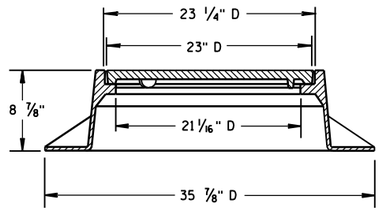


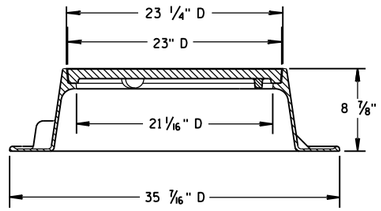


SECTION A-A
TYPE "K"









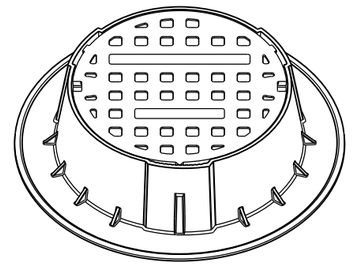
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

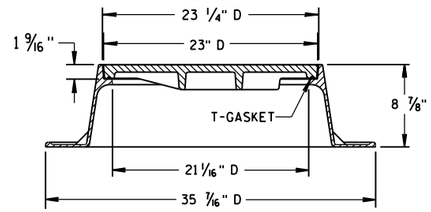
GENERAL NOTES

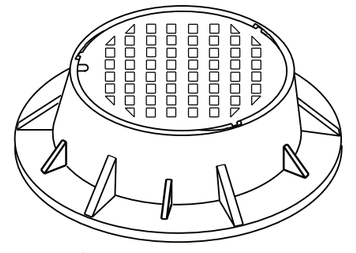
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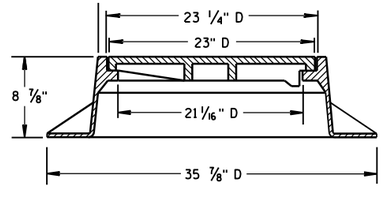
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

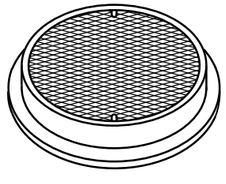


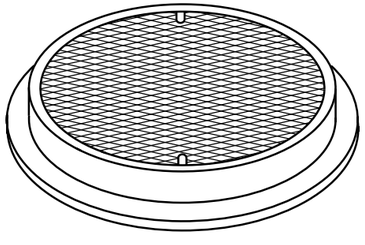


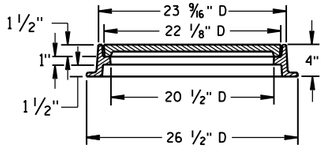




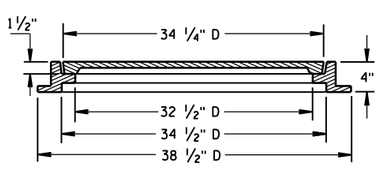
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



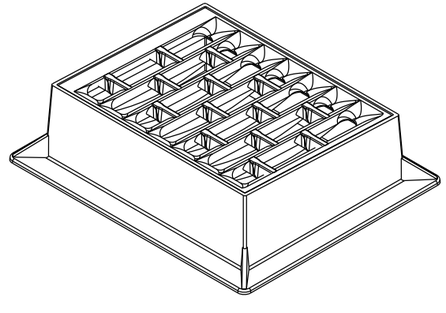


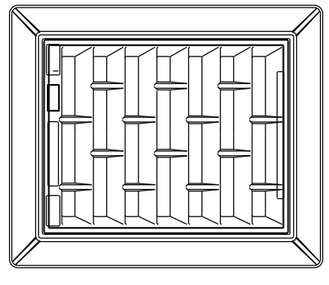


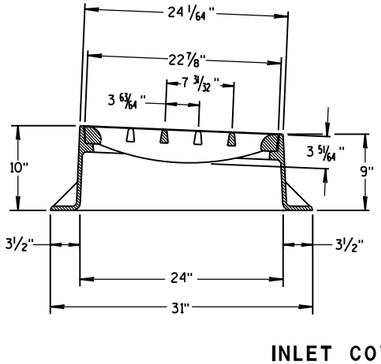
TYPE "L"

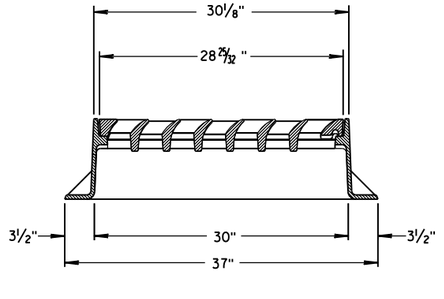


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

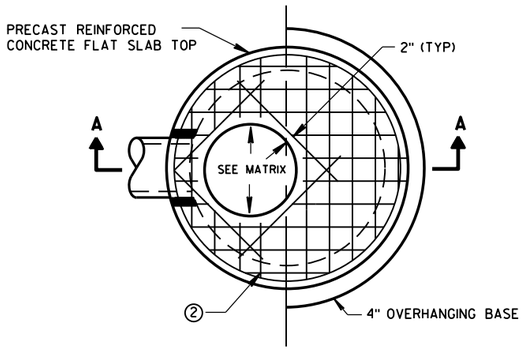
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

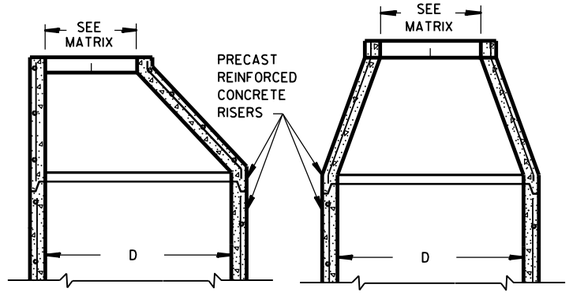
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

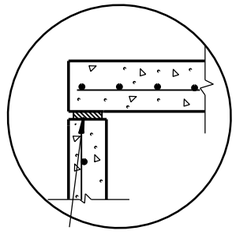


PLAN VIEW CIRCULAR OPENING

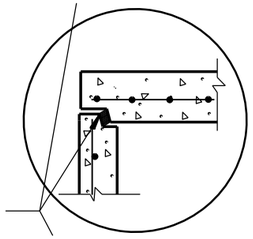


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

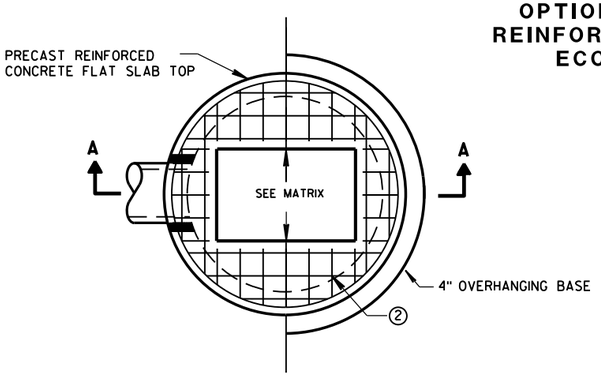
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



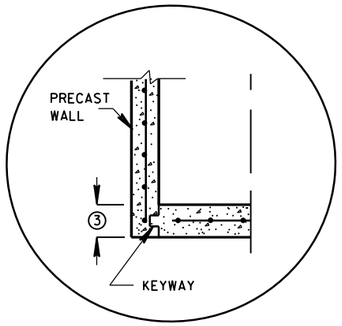
TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

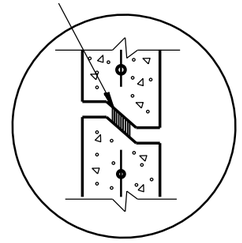


PLAN VIEW RECTANGULAR OPENING



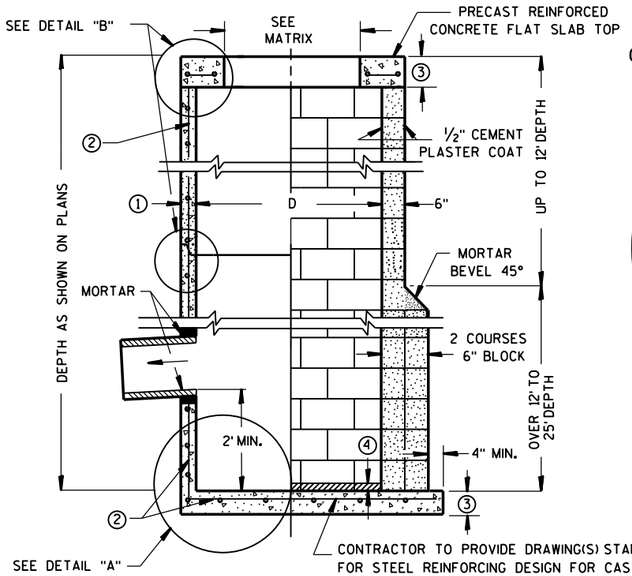
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



RISER WITH TONGUE AND GROOVE JOINT

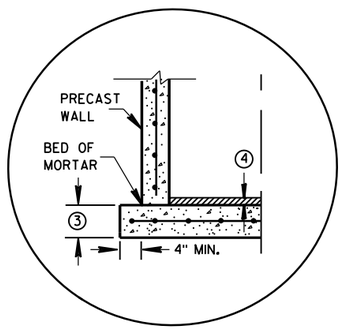
DETAIL "B"



SECTION A-A

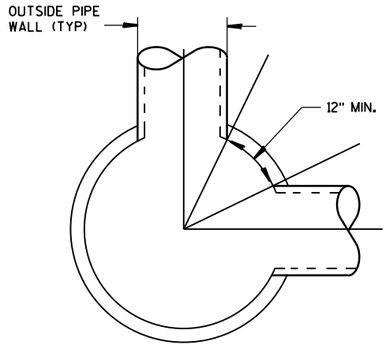
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

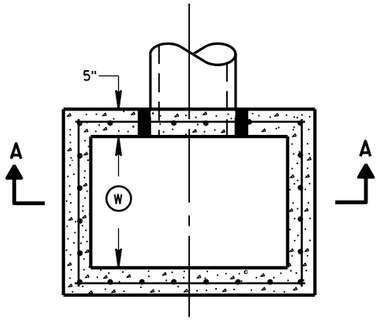
PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

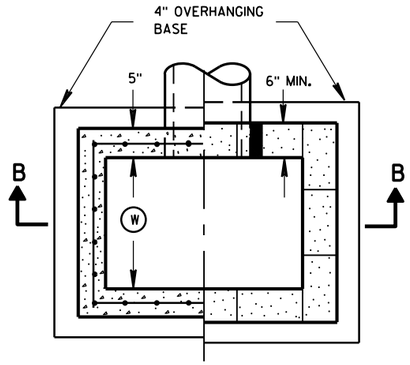
CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

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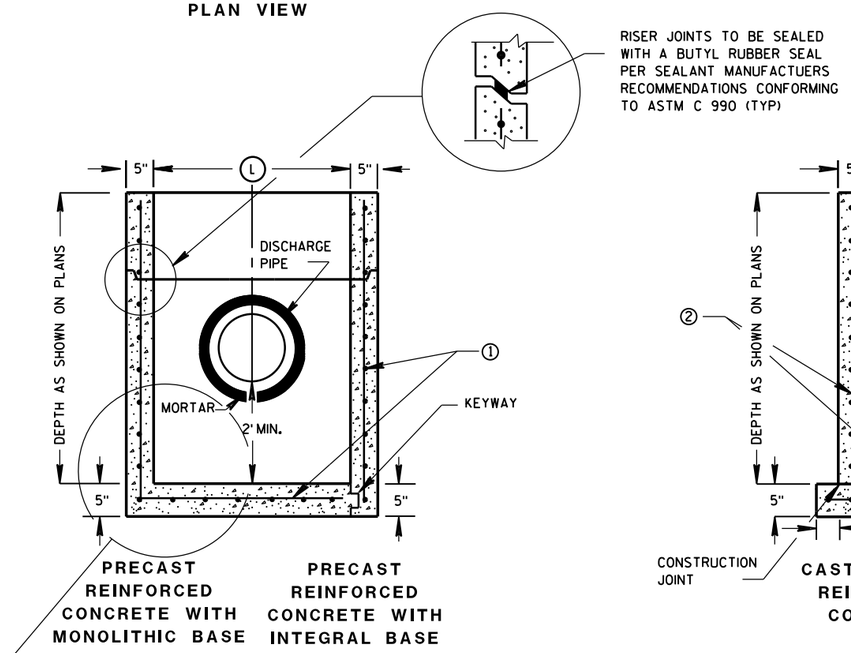
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI
FHWA



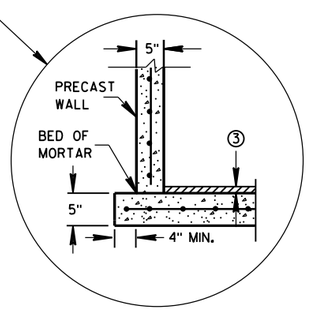
PLAN VIEW



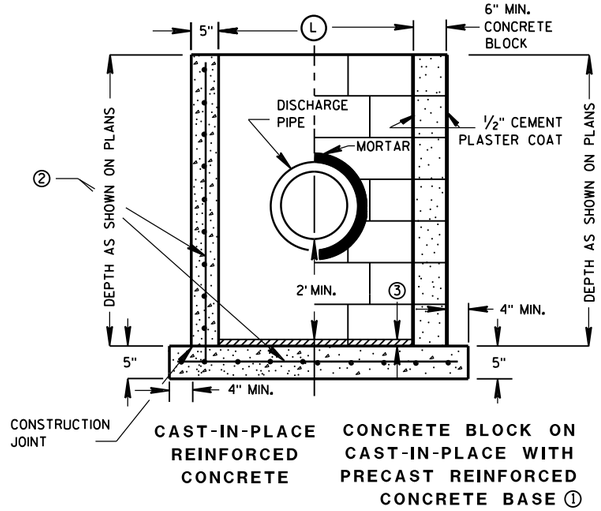
PLAN VIEW



SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



SECTION B-B

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST CATCH BASIN UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

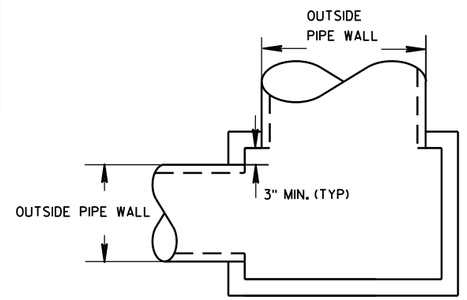
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

CATCH BASINS 2X3-FT AND 2.5X3-FT

CATCH BASINS 2X3-FT AND 2.5X3-FT

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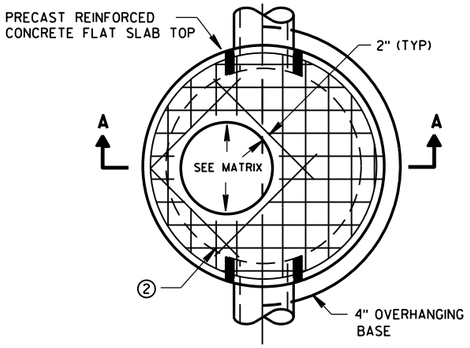
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR

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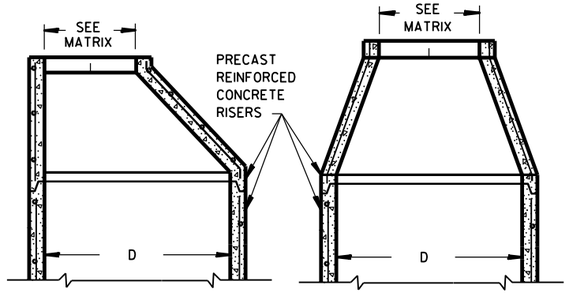
S.D.D. 8 A 9-2

6

S.D.D. 8 A 9-2

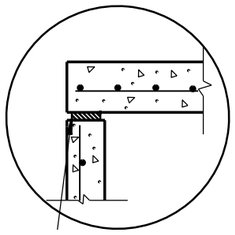


PLAN VIEW CIRCULAR OPENING

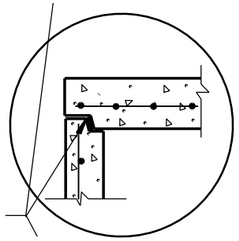


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

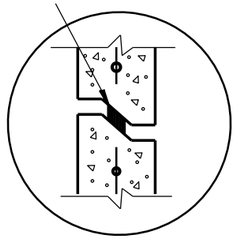


TOP WITH PLAIN END JOINT



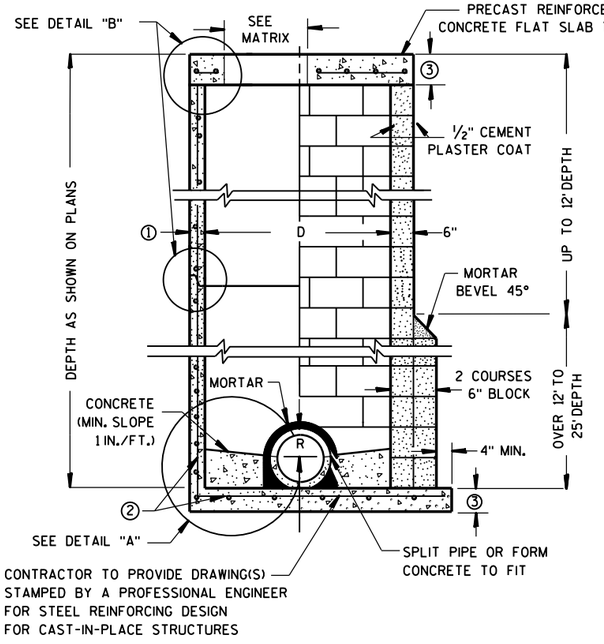
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



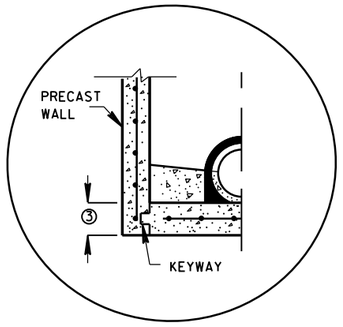
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

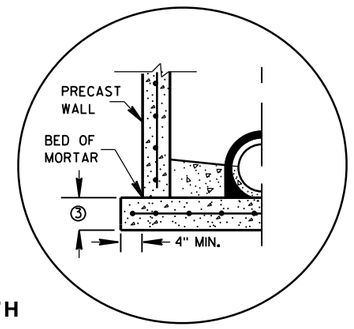


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

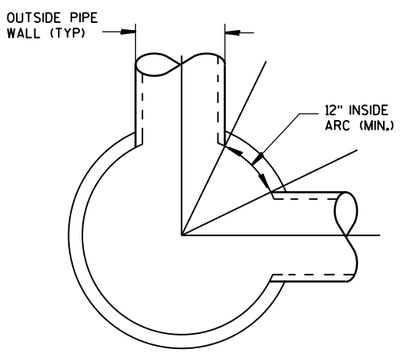


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

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DEPARTMENT OF TRANSPORTATION

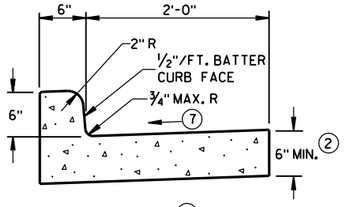
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DATE

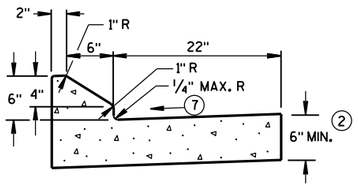
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERV

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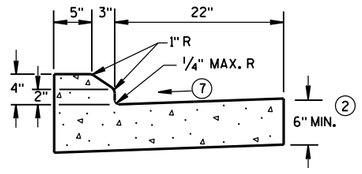
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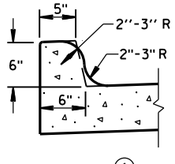
TYPES A (1) & D



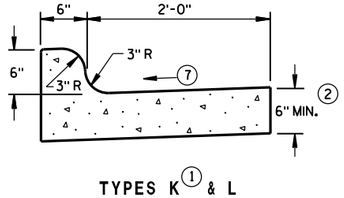
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

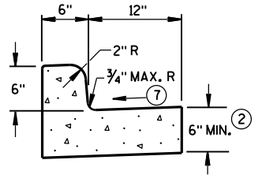


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



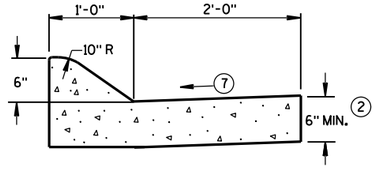
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

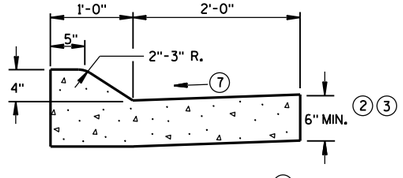


TYPES A (1) & D

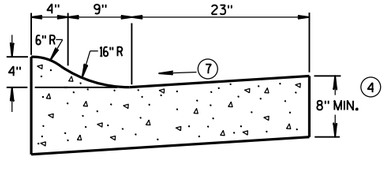
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

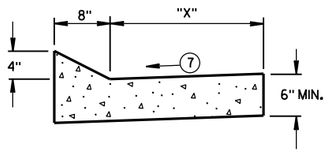


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

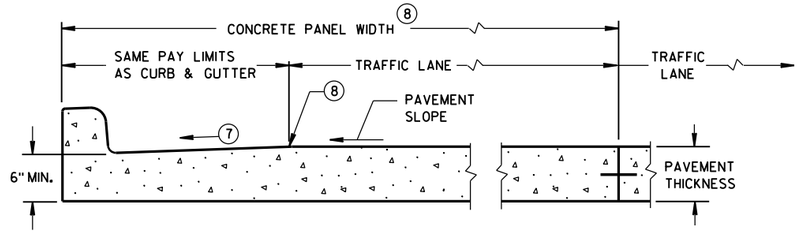
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

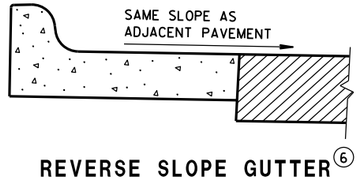
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

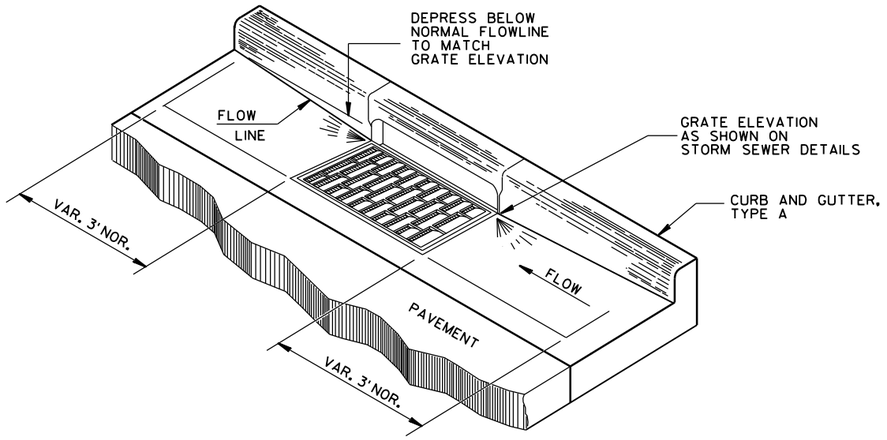
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

S.D.D. 8 D 1-20a

6

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

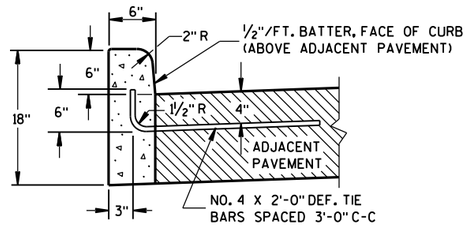
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

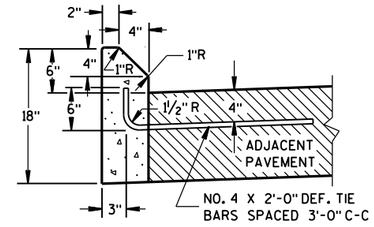
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

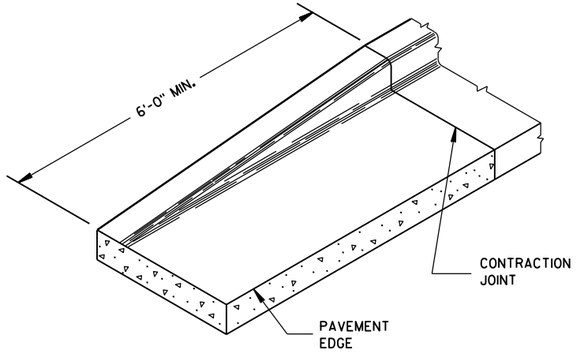


TYPES A(1) & D

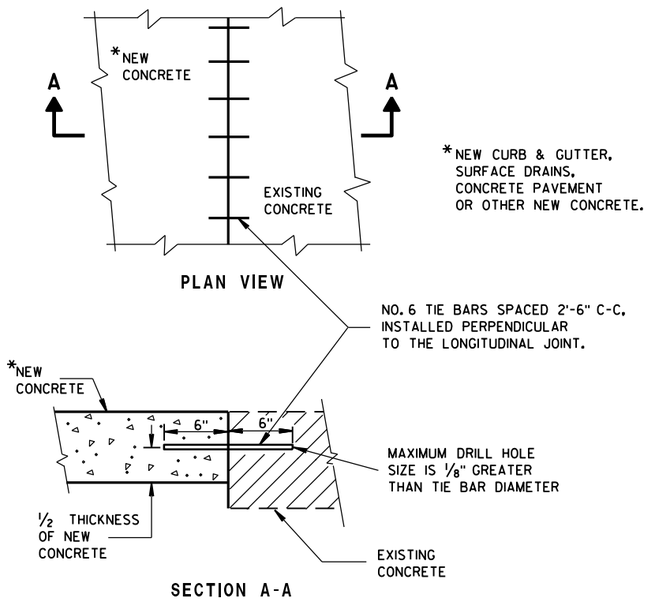


TYPES G(1) & J

CONCRETE CURB

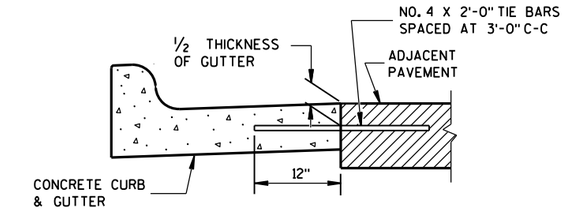


END SECTION CURB & GUTTER

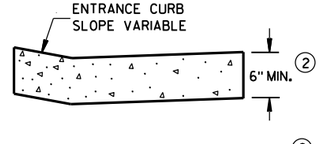


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

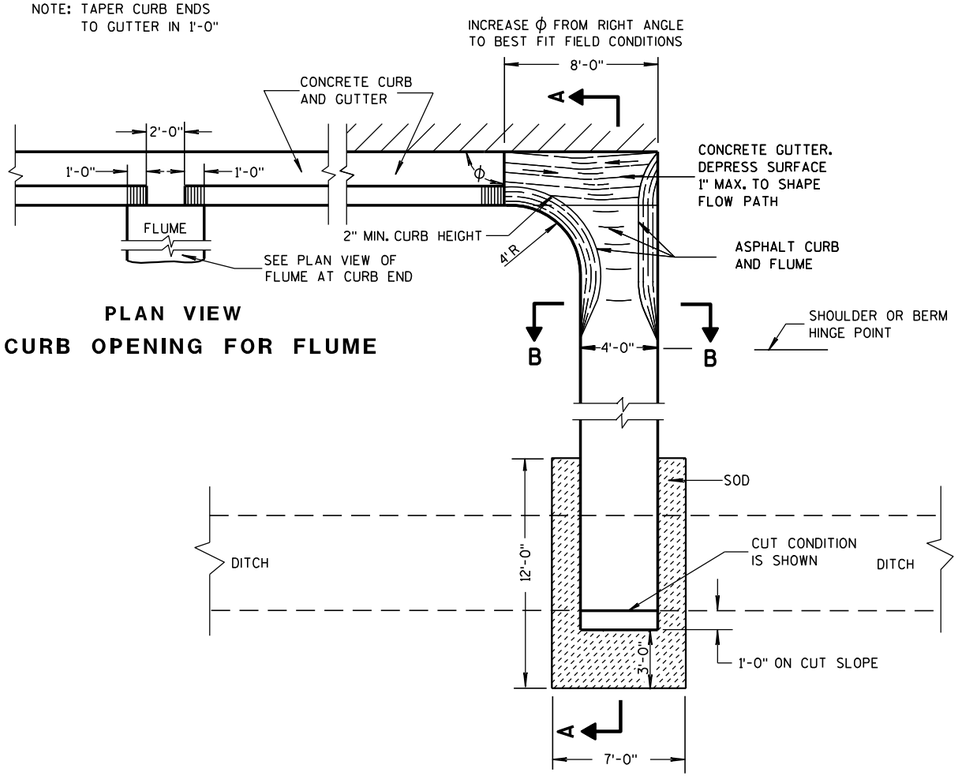
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

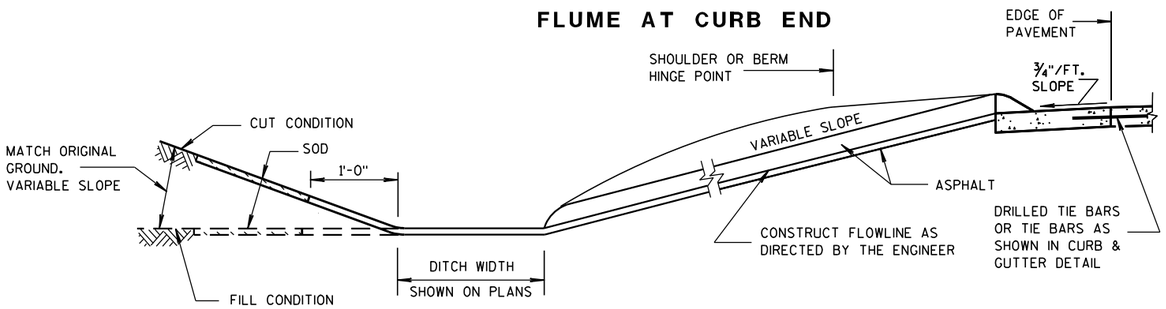
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

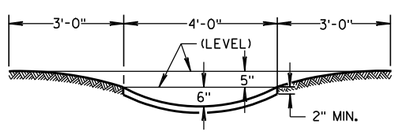


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

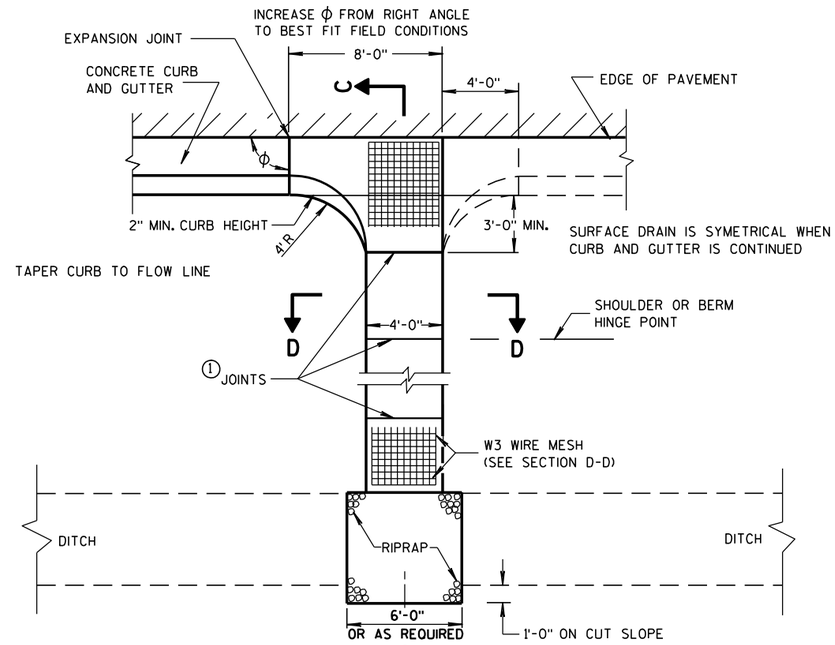
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

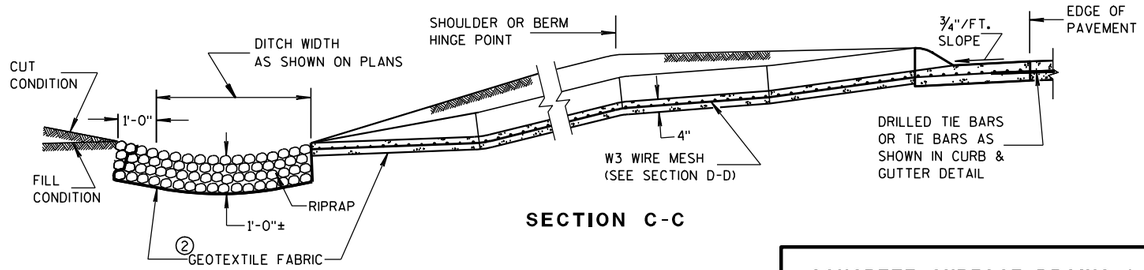
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

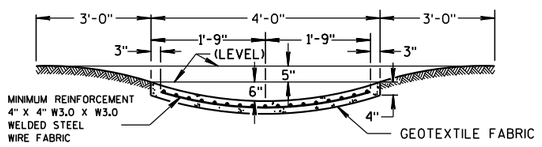
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



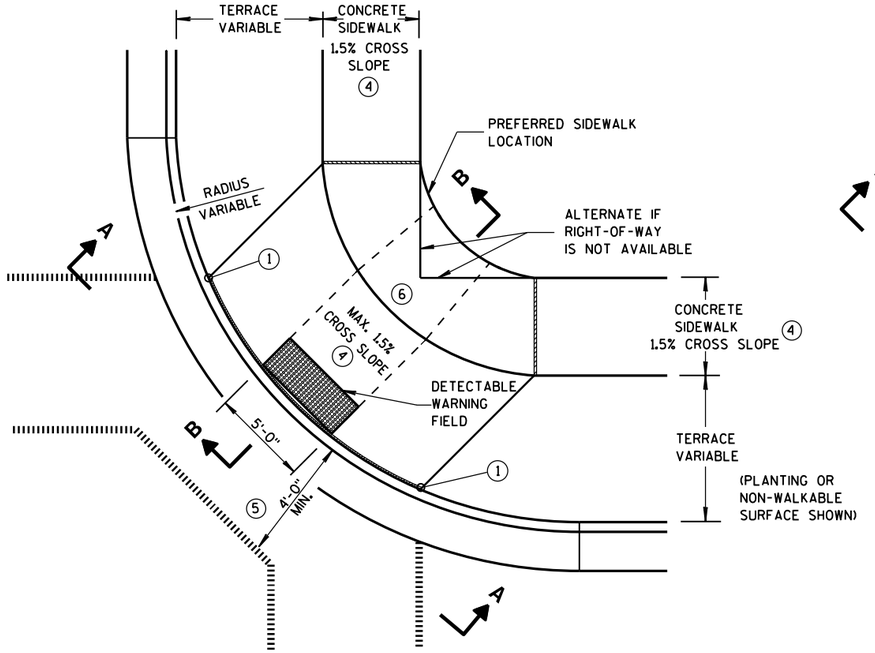
SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

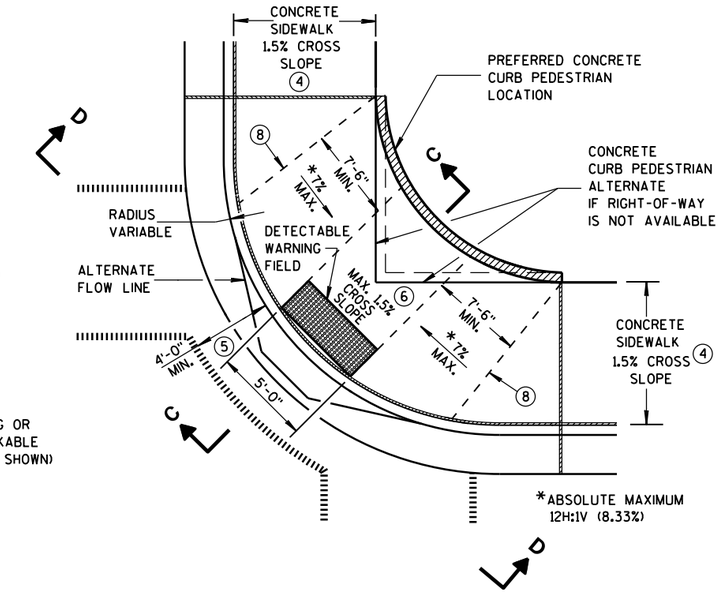
6
S.D.D. 8 D 4-5
6
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

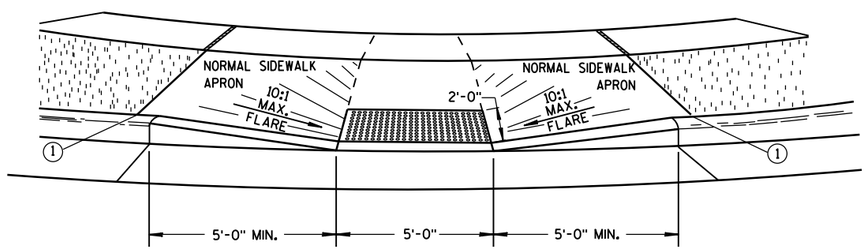
(CENTER OF CORNER RADIUS)



PLAN VIEW

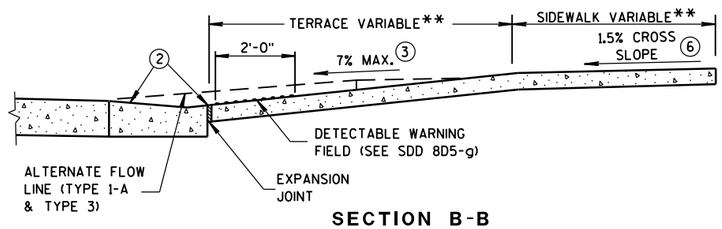
TYPE 1-A RAMP

(NO TERRACE)

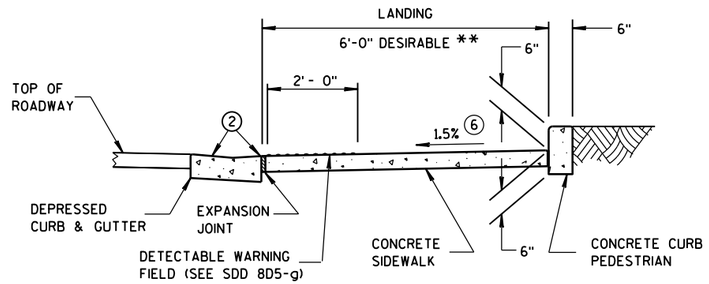


VIEW A-A

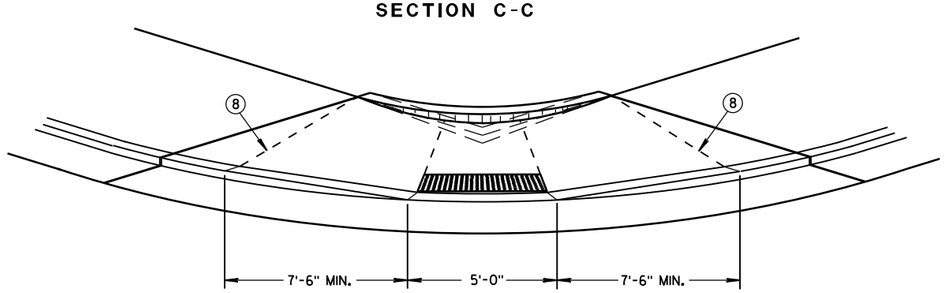
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

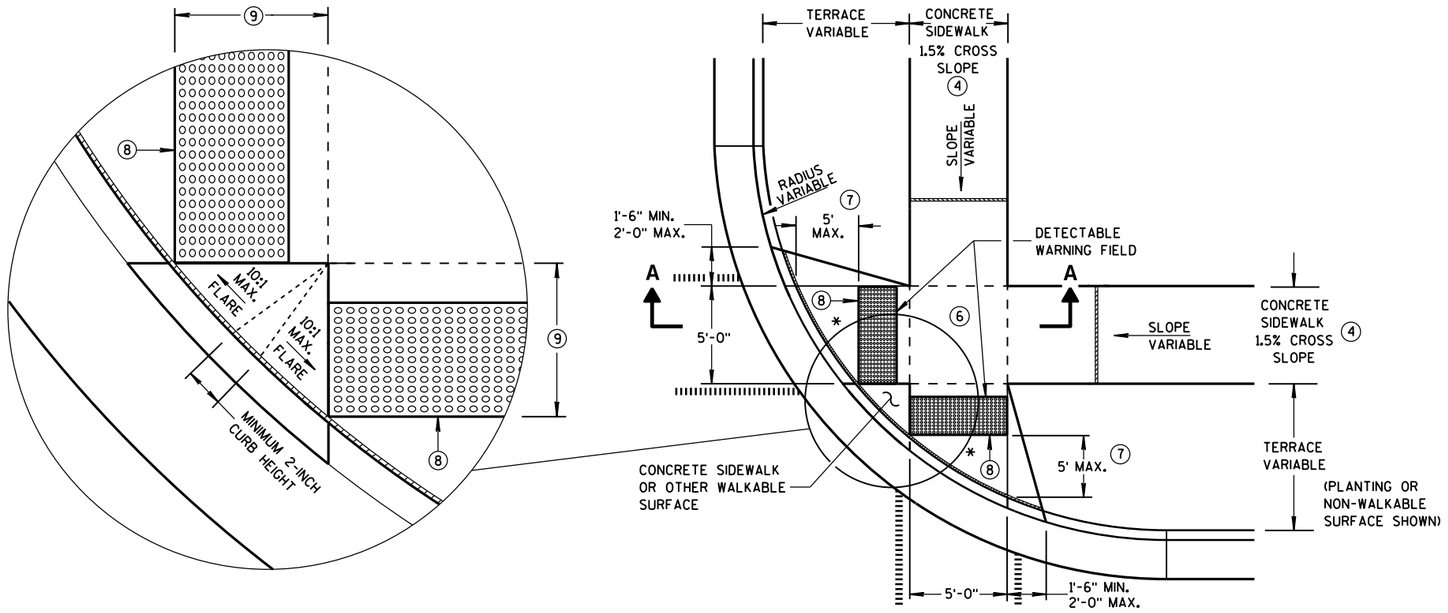
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-19a



PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

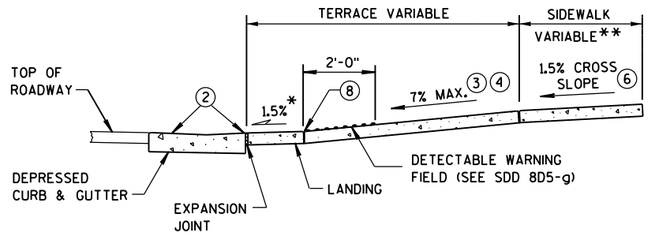
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

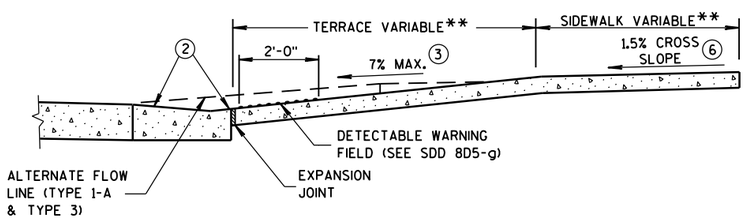
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

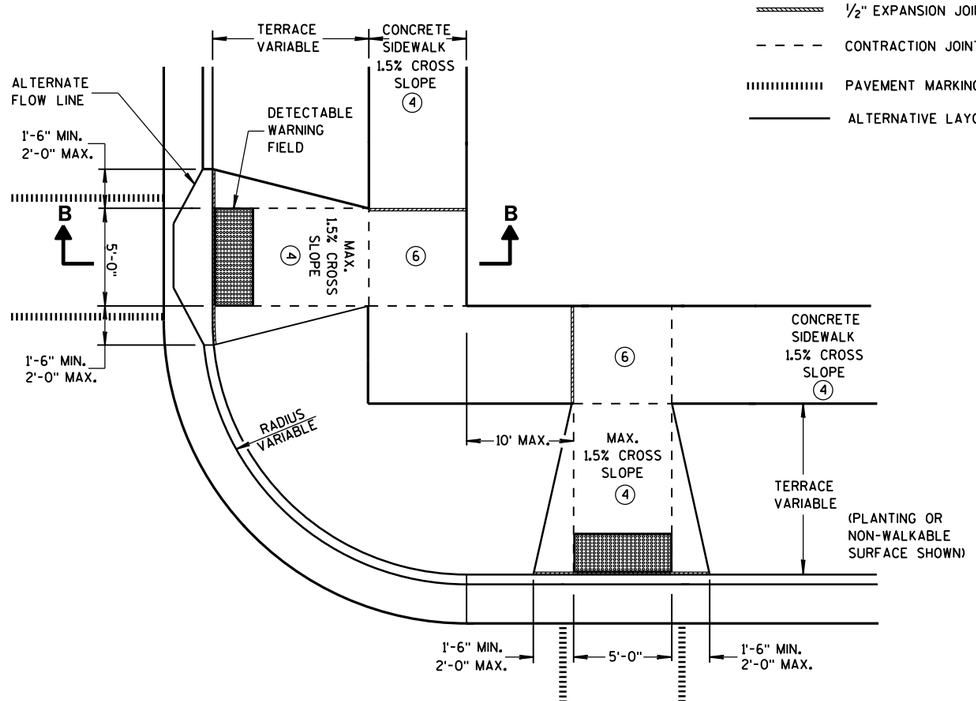


SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



PLAN VIEW

TYPE 3 RAMP

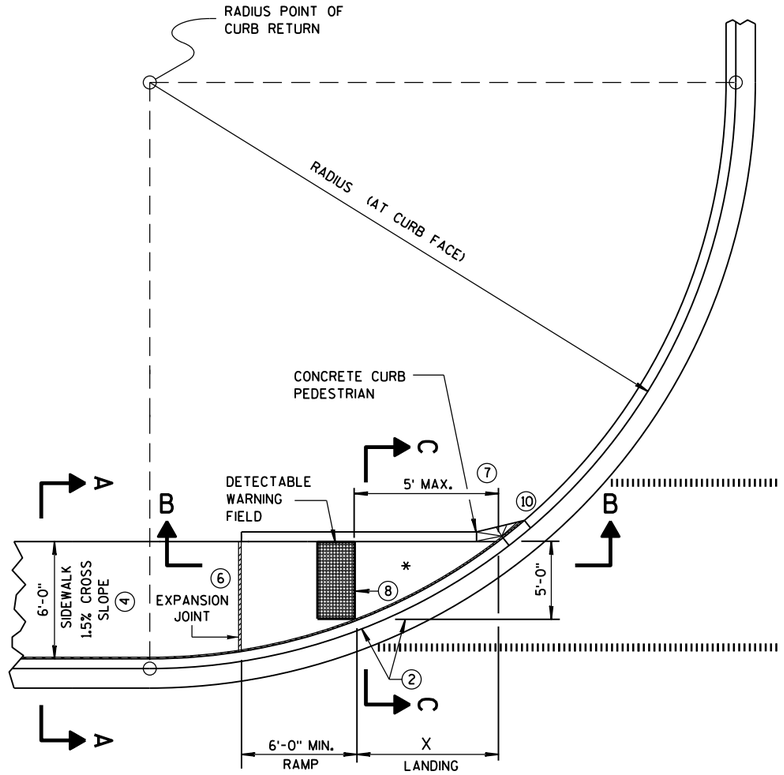
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

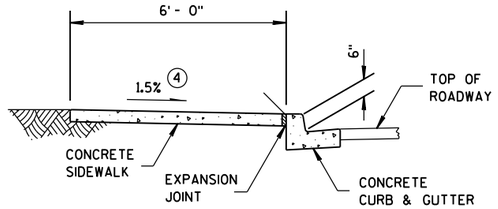
S.D.D. 8 D 5-19b



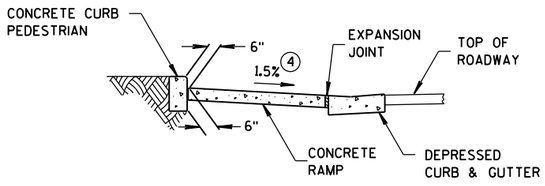
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

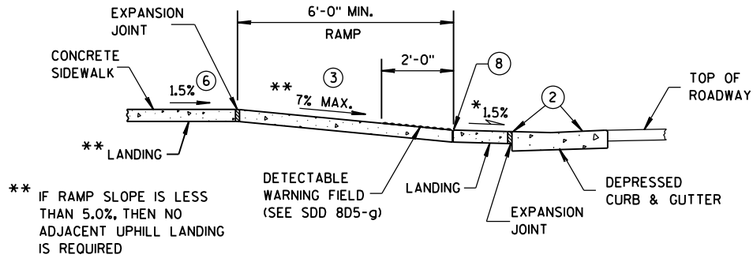
INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A



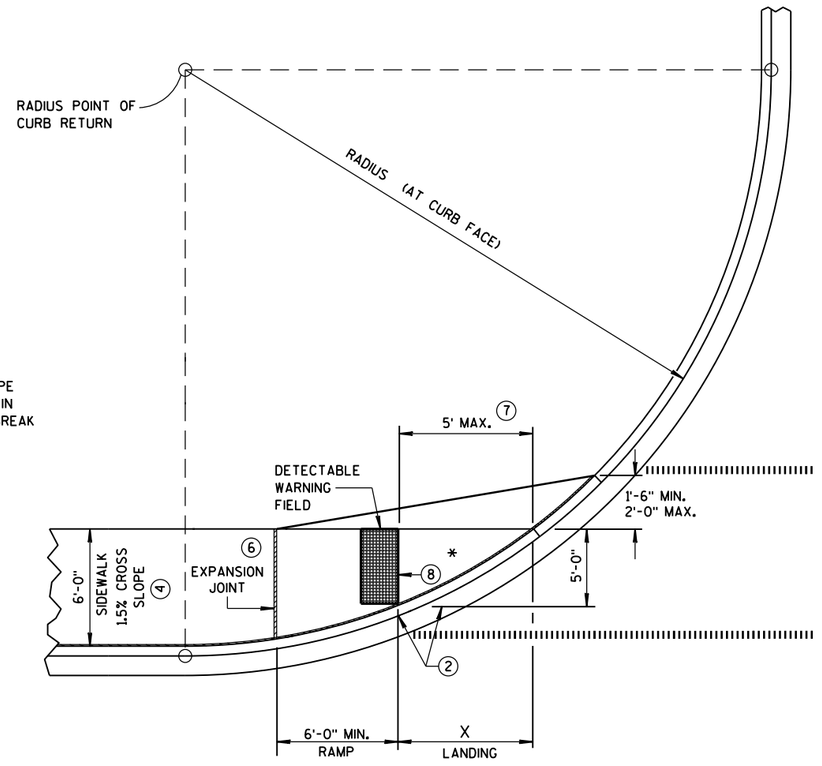
SECTION C-C FOR TYPE 4A



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



CURB RAMP TYPE 4A1
PLAN VIEW

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

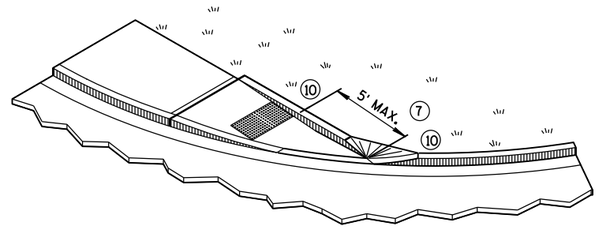
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

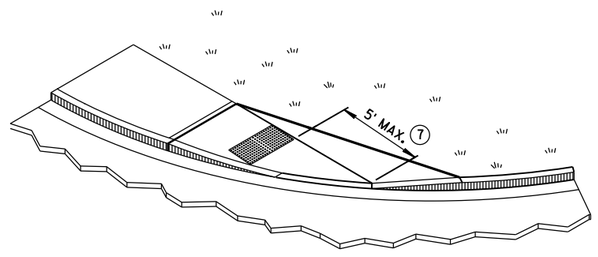
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

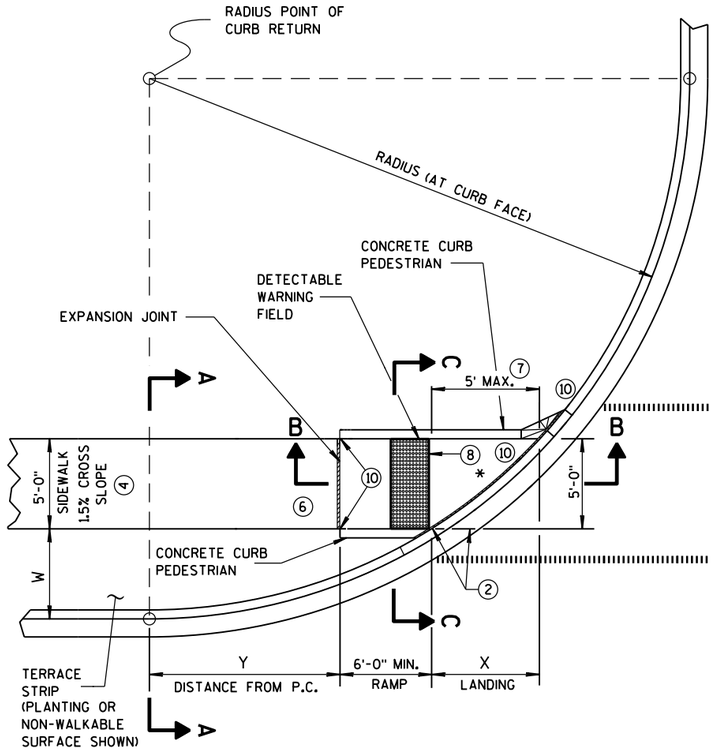
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 4A AND 4A1

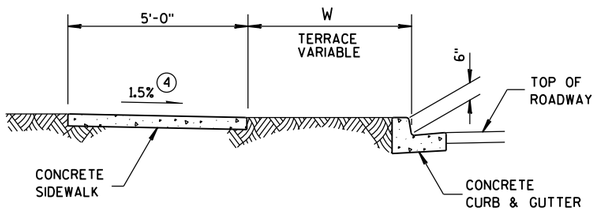
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

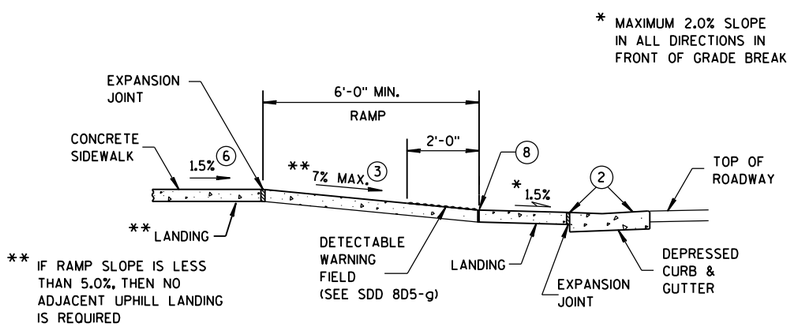
S.D.D. 8 D 5-19c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



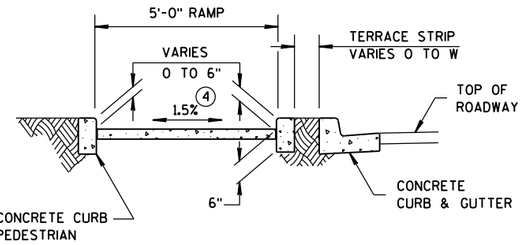
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

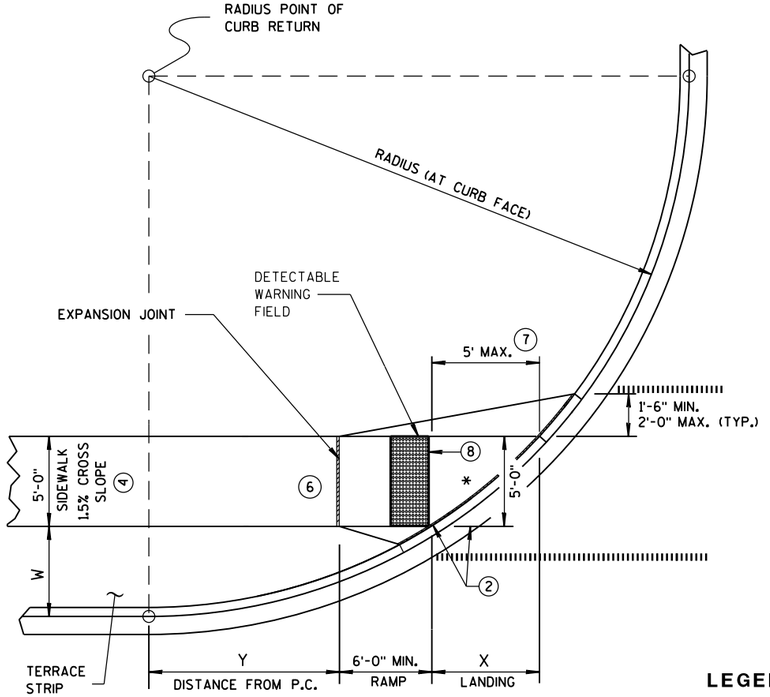
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

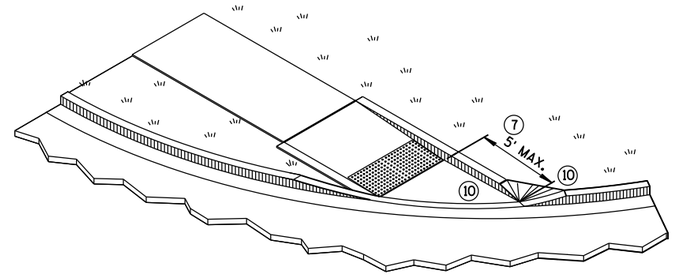
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

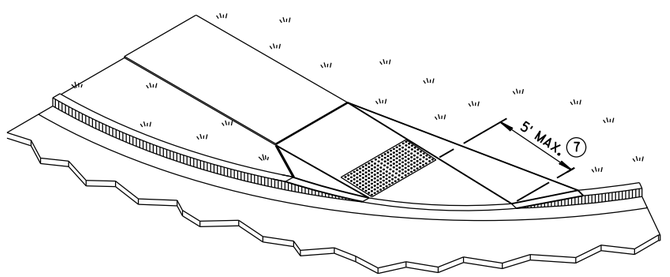
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

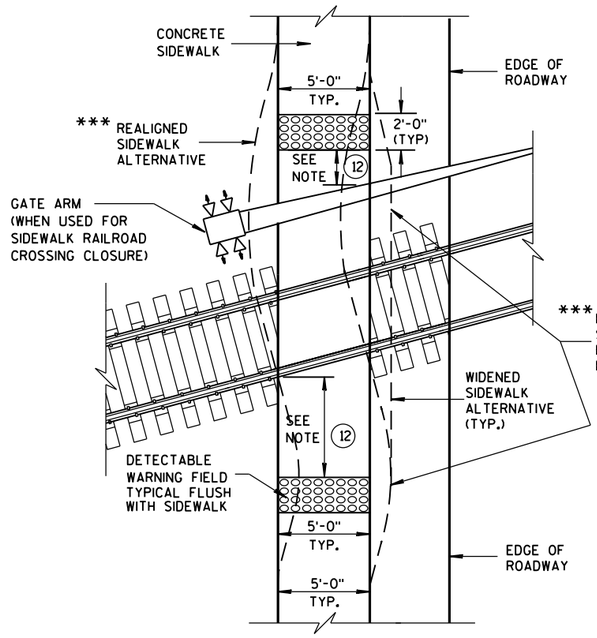
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

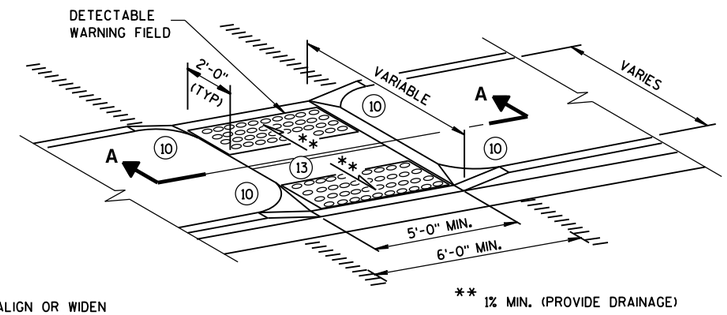
6

S.D.D. 8 D 5-19d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

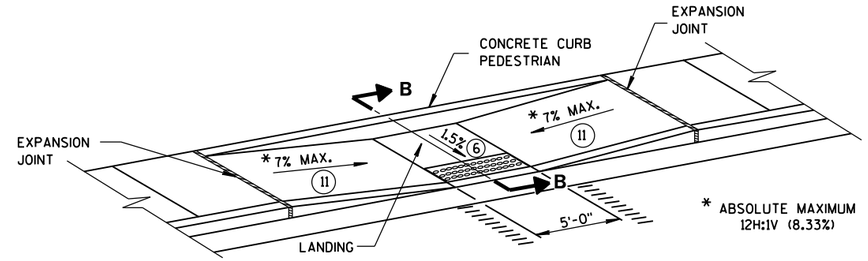
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

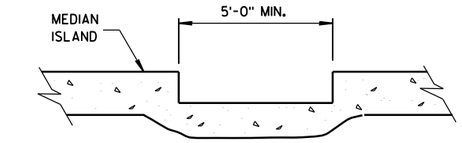
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

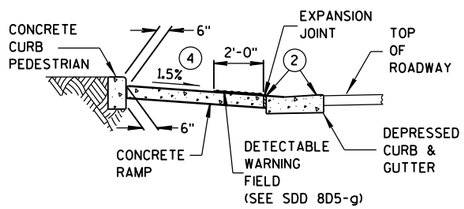
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

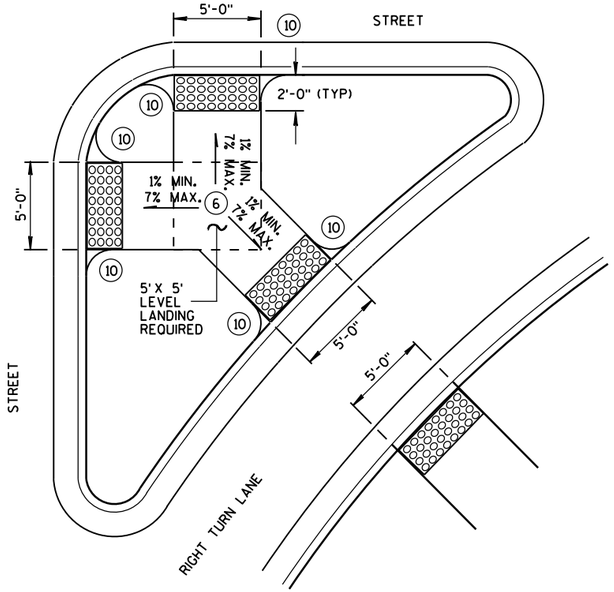


SECTION A-A

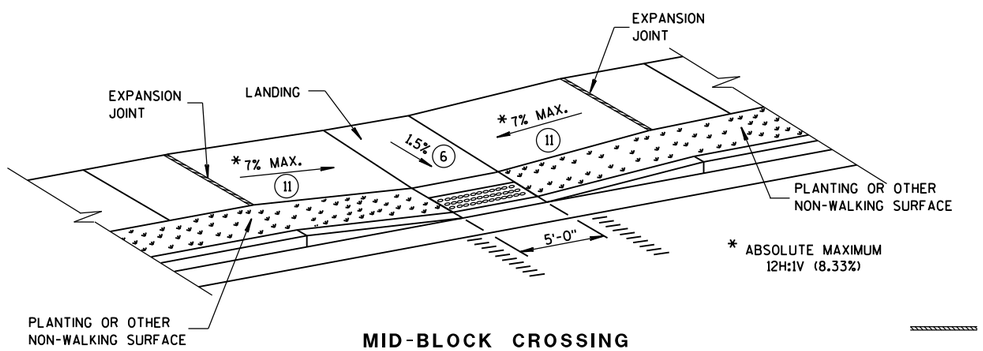


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

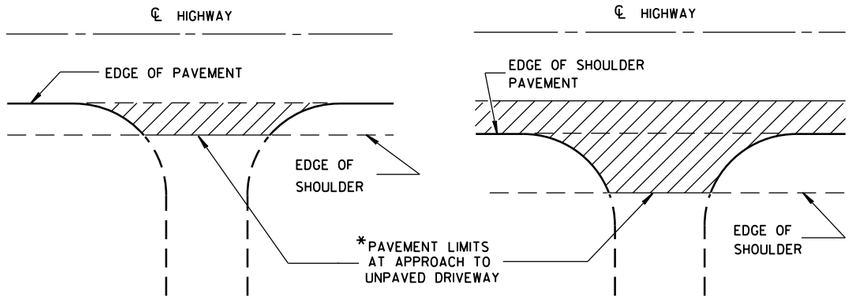
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-19e
S.D.D. 8 D 5-19e

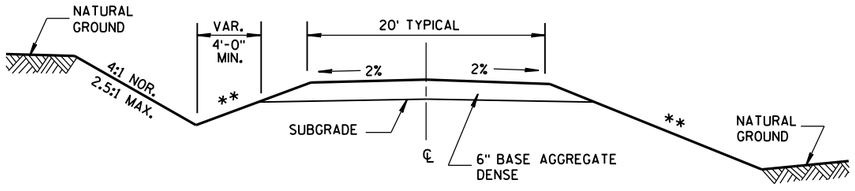


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB & GUTTER OR SIDEWALK)

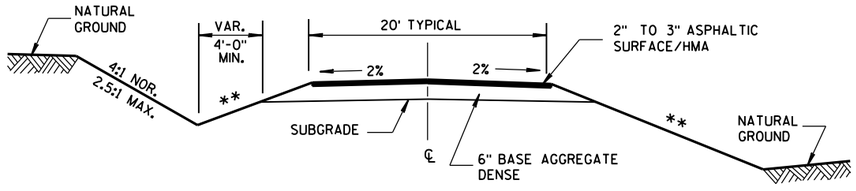


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

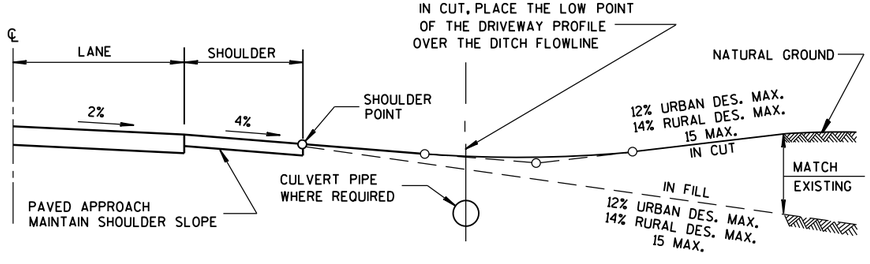
** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

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



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE



TYPICAL DRIVEWAY PROFILES

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

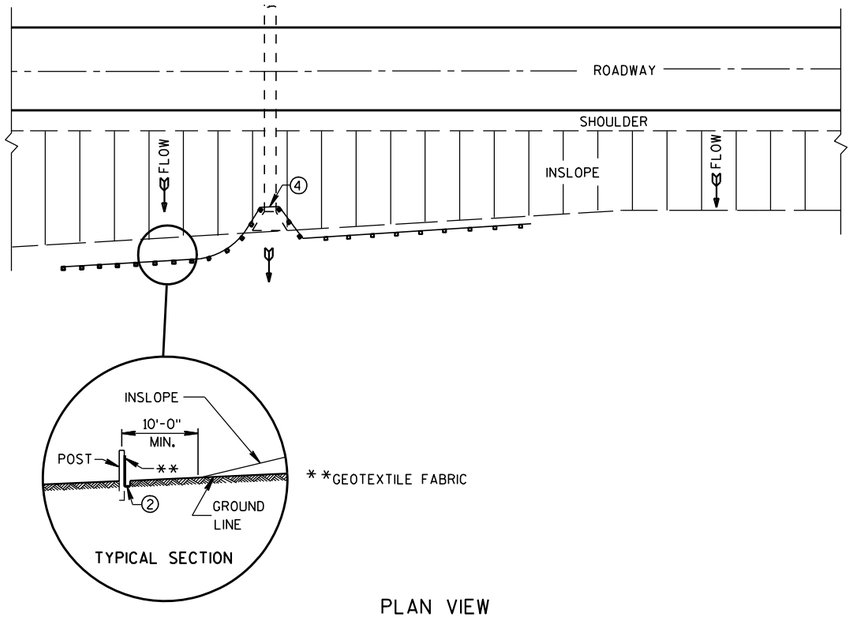
APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
FHWA

6

S.D.D. 8 D 21-1

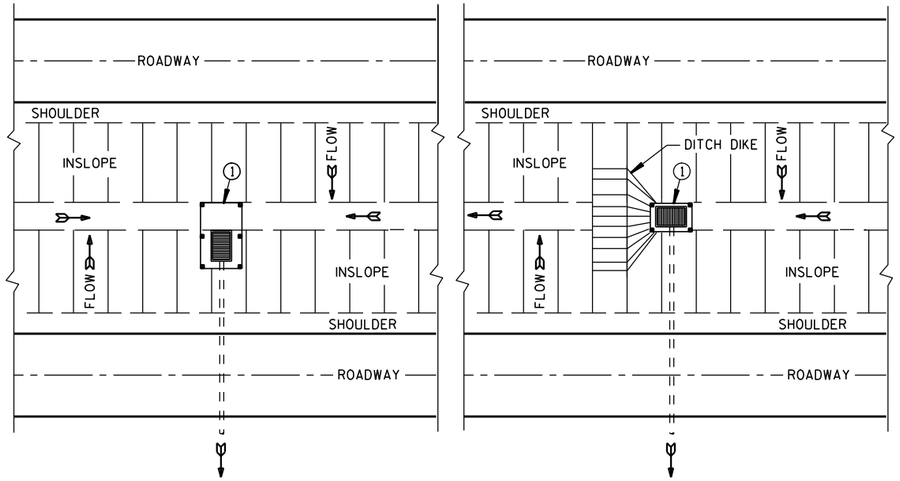
6

S.D.D. 8 D 21-1



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



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.

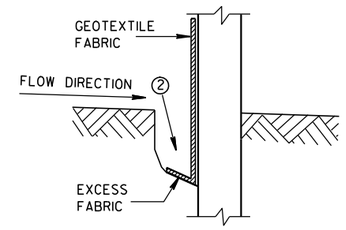
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

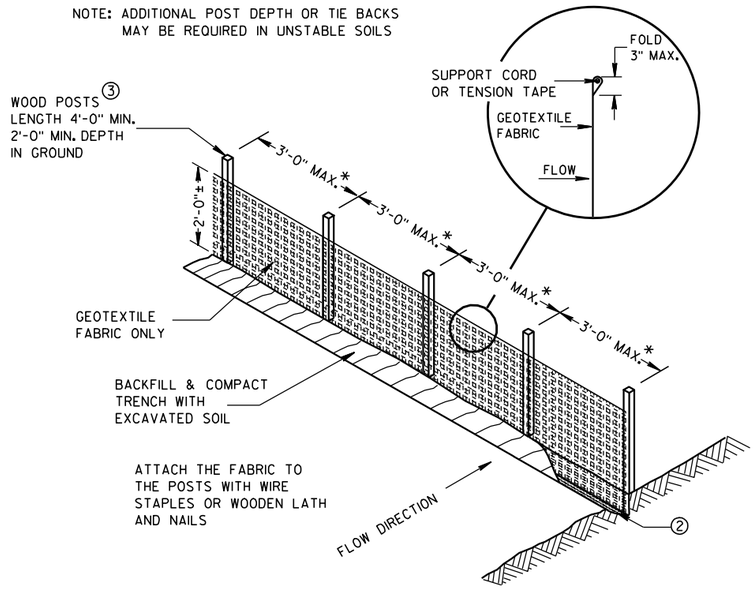
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

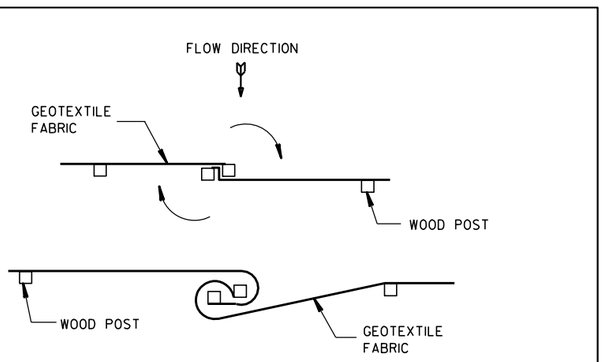
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



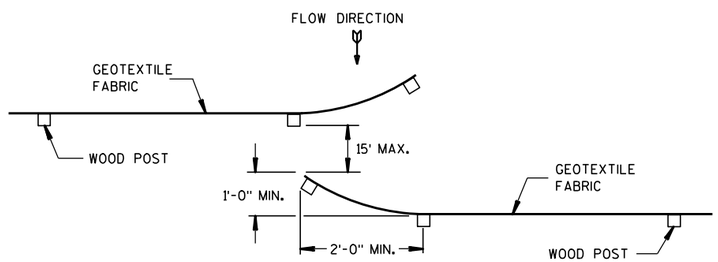
TRENCH DETAIL



SILT FENCE

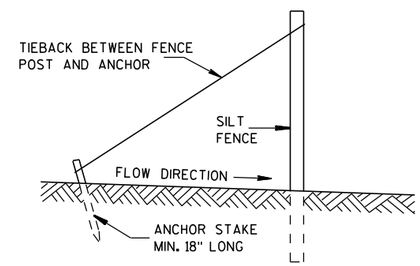


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

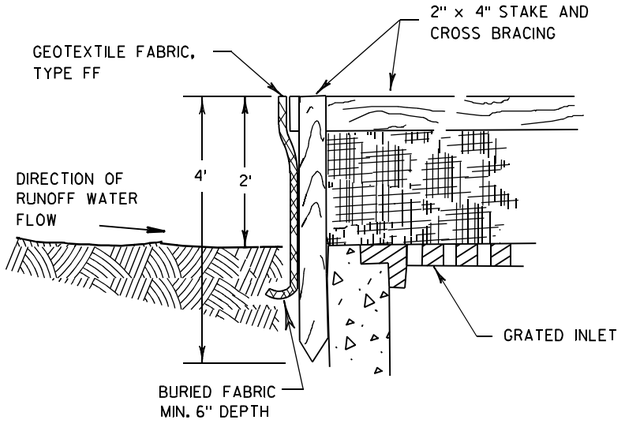
SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4-29-05 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

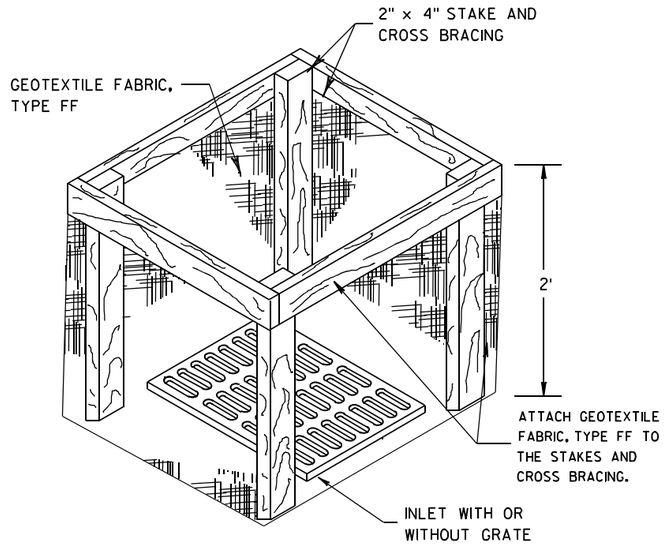
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S.D.D. 8 E 9-6

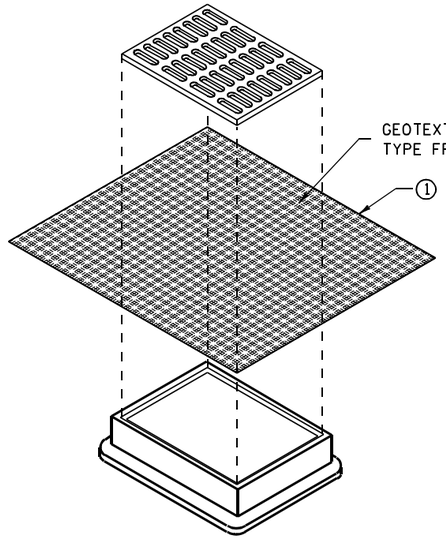
6

S.D.D. 8 E 9-6



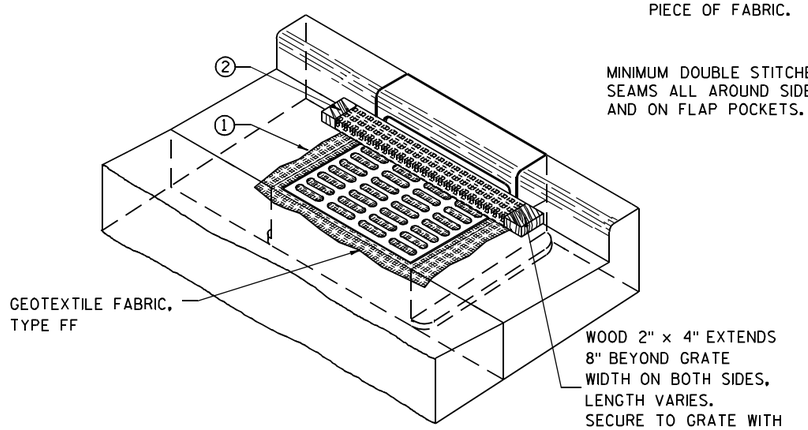


INLET PROTECTION, TYPE A

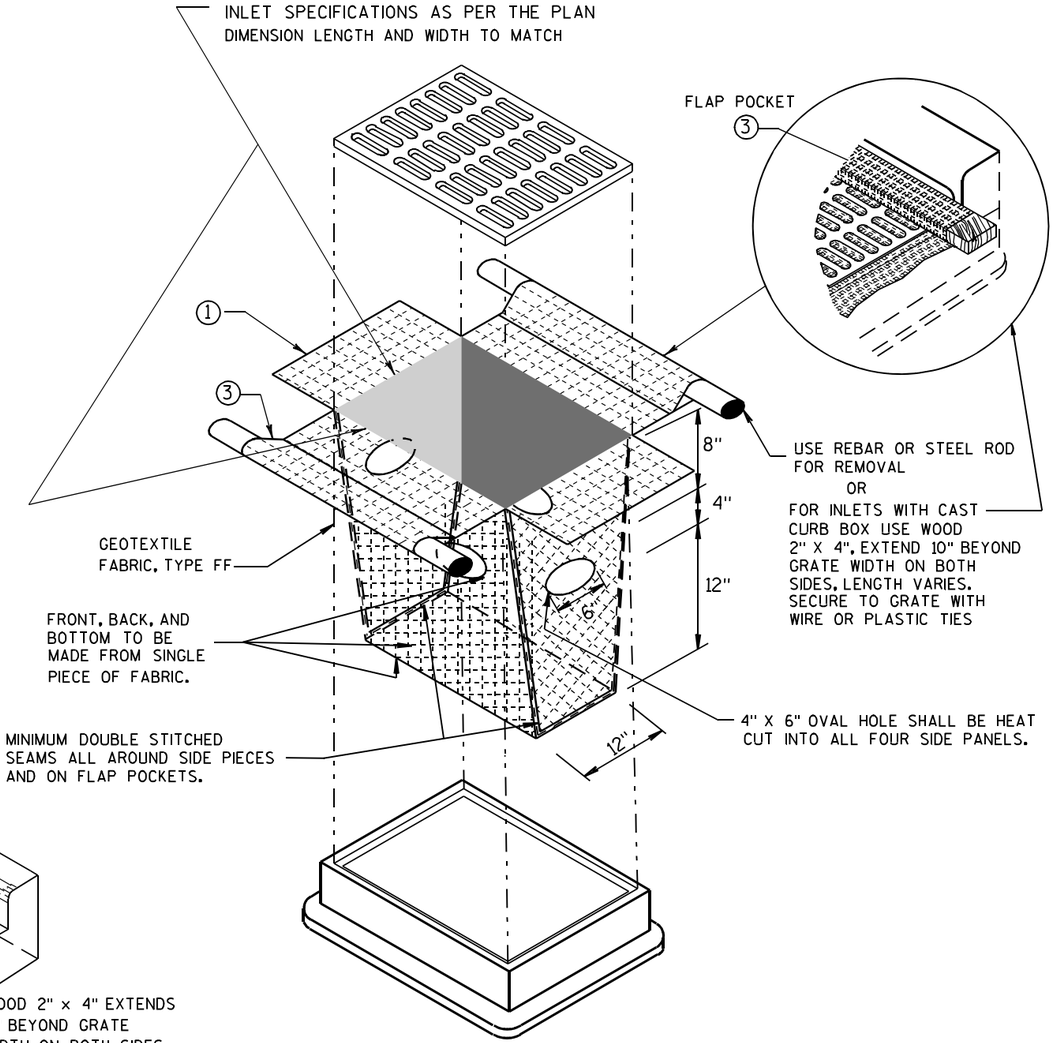


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

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.

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.

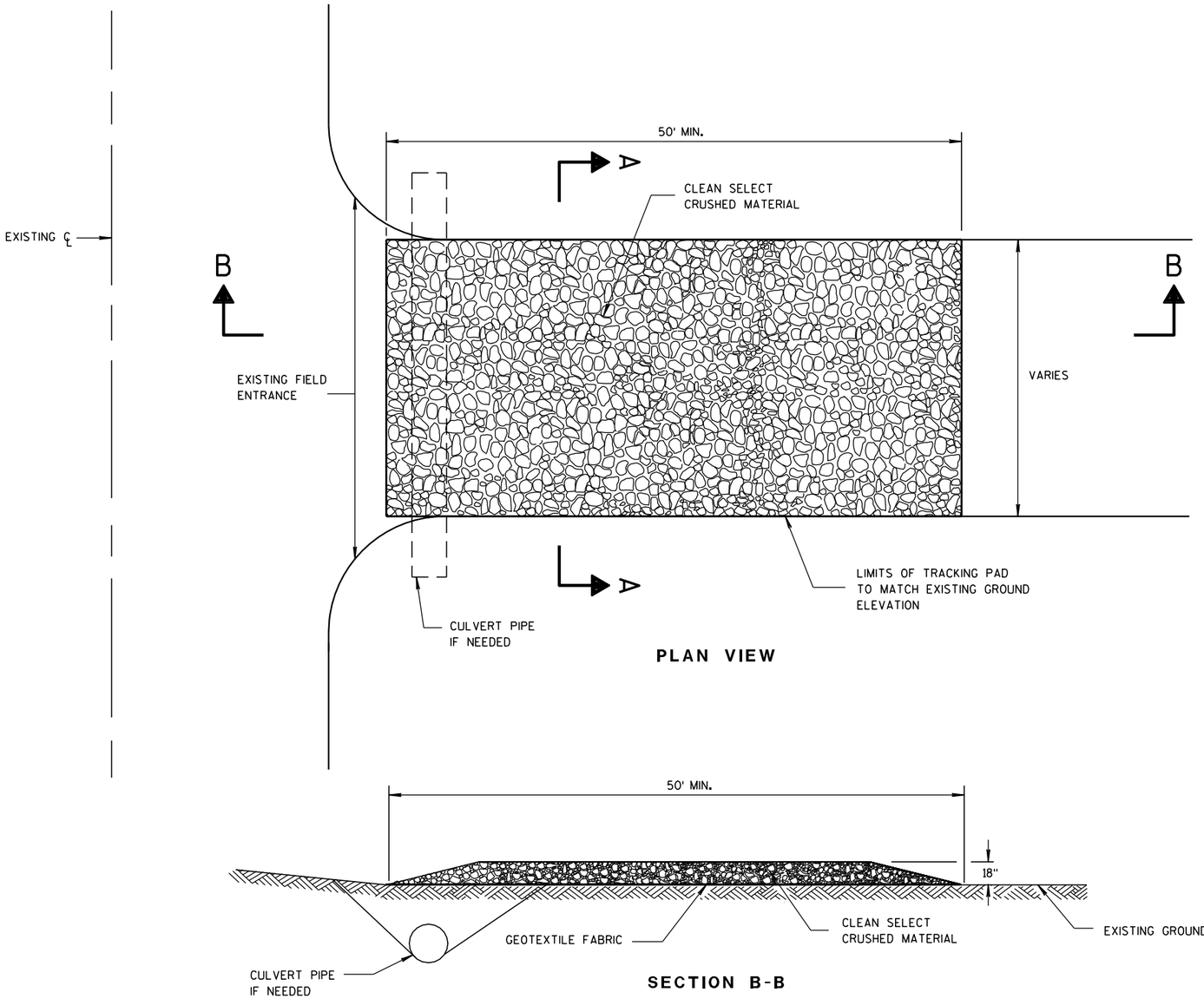
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

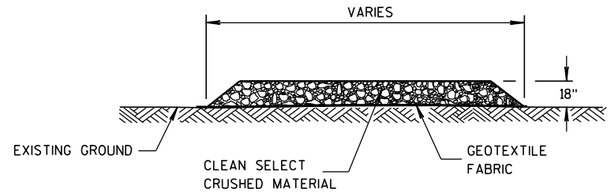
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 DATE
/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER
FHWA

ENT

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

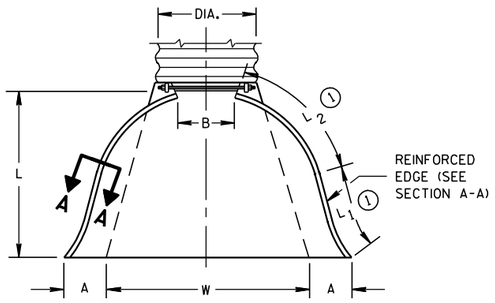
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

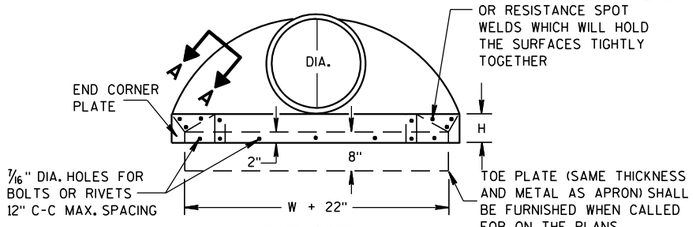
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

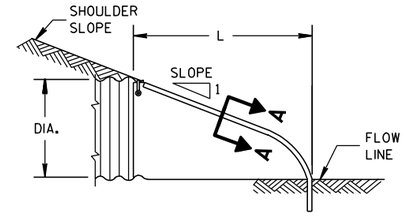
* MINIMUM
** MAXIMUM



PLAN VIEW

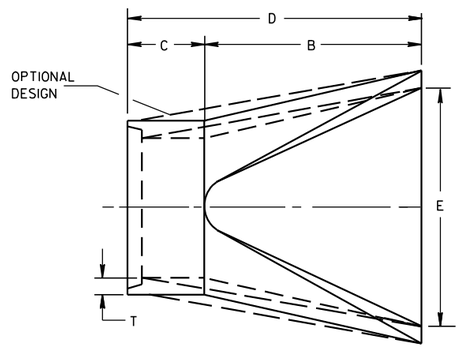


END VIEW

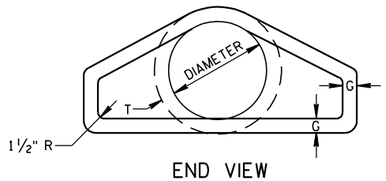


SIDE ELEVATION

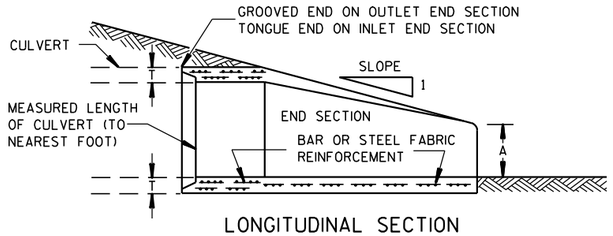
METAL ENDWALLS



PLAN

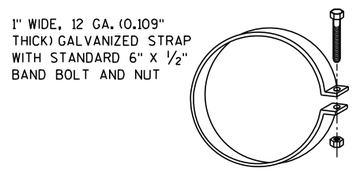


END VIEW



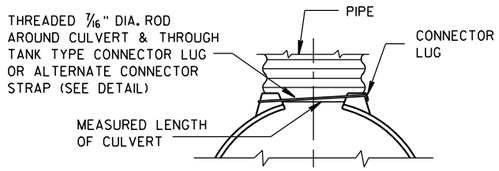
LONGITUDINAL SECTION

CONCRETE ENDWALLS

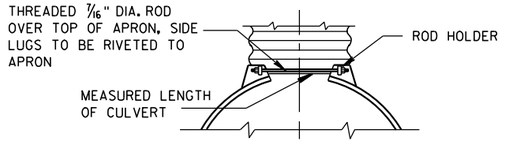


ALTERNATE FOR TYPE 1 CONNECTION

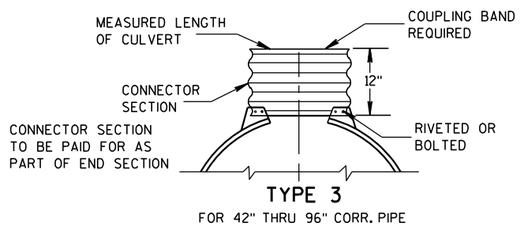
END SECTION CONNECTOR STRAP



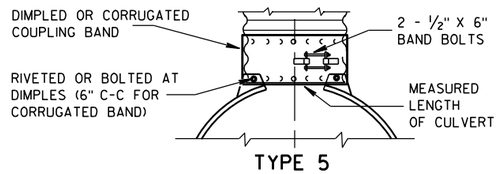
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

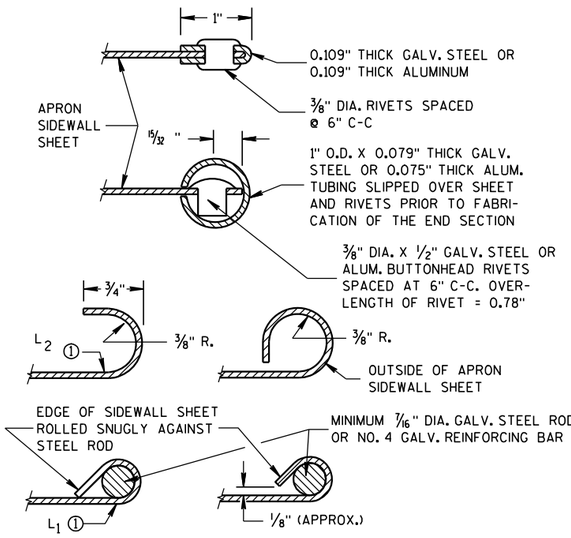
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

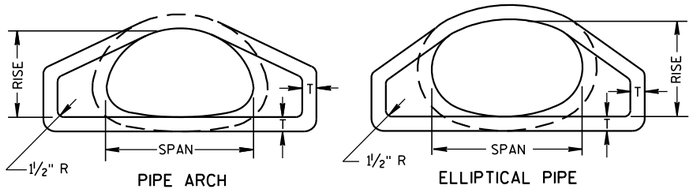
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

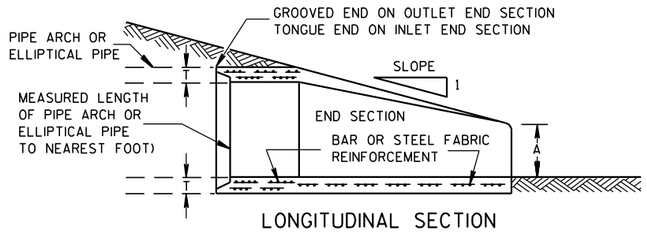
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

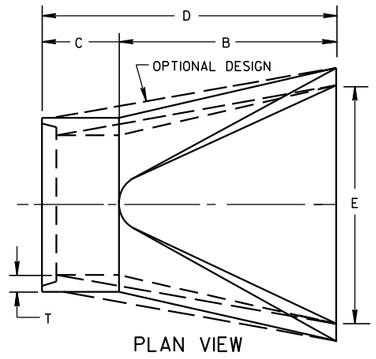
6
S.D.D. 8 F 1-11



END VIEW

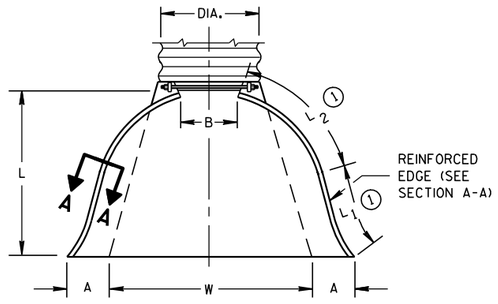


LONGITUDINAL SECTION

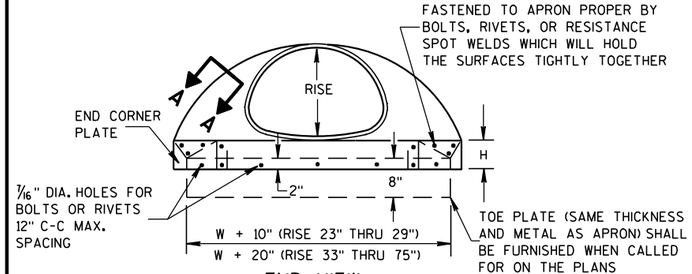


PLAN VIEW

CONCRETE ENDWALLS

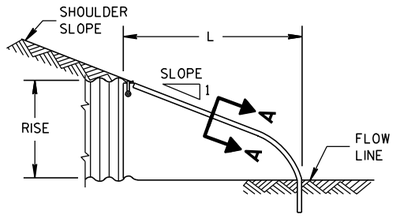


PLAN VIEW



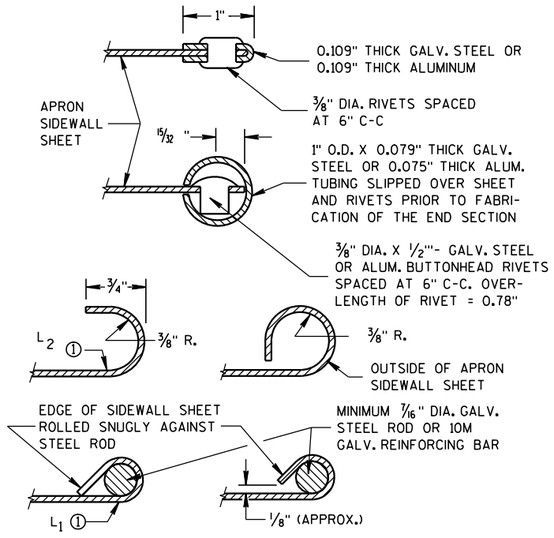
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

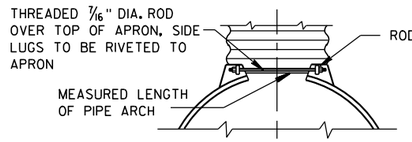
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

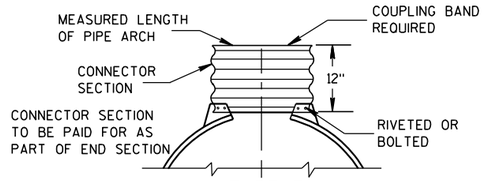
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



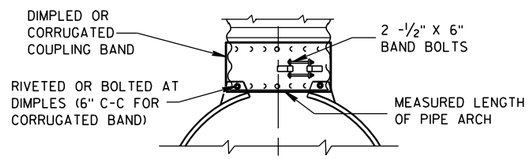
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

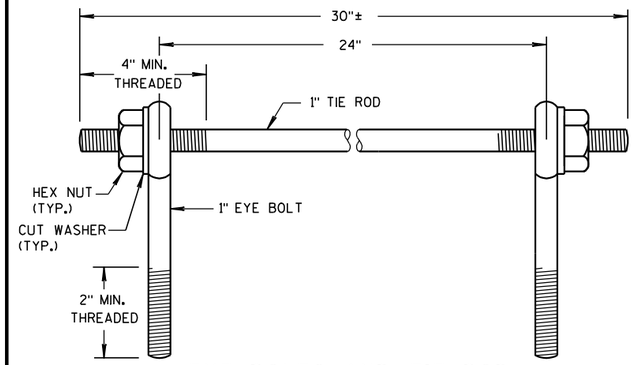
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

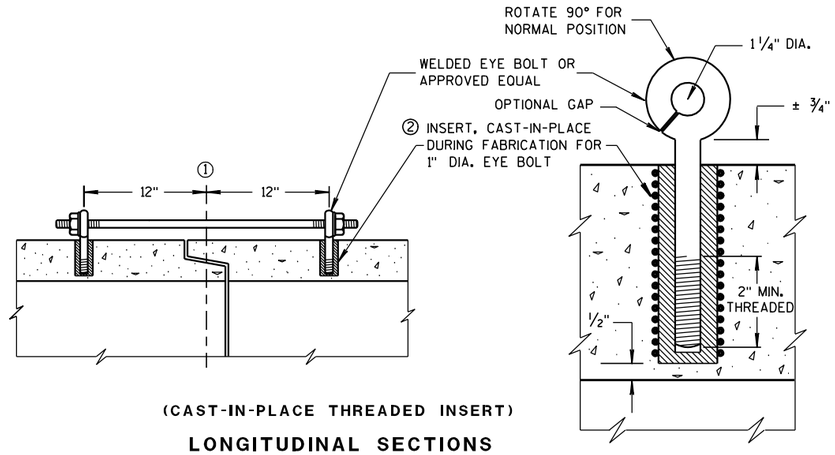
FHWA

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

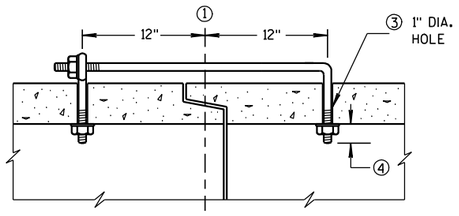
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

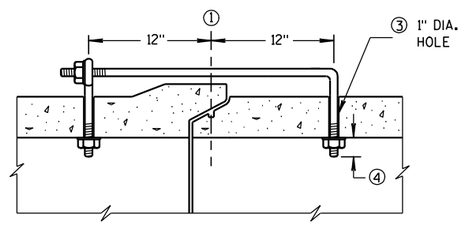
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

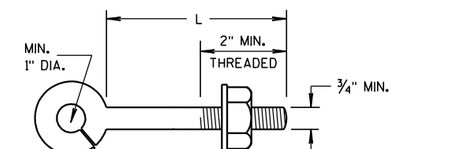


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

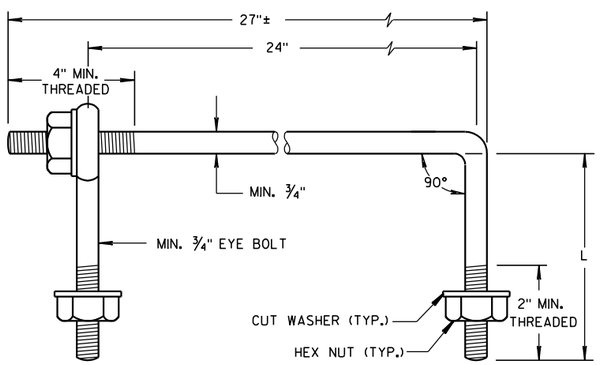
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

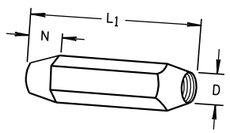
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

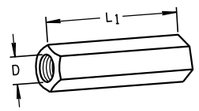
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



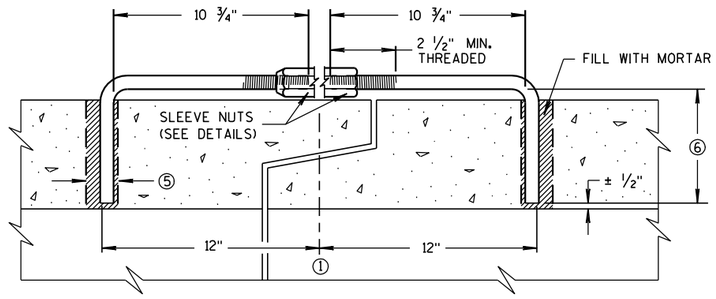
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PLAIN

RIGHT AND LEFT THREADS

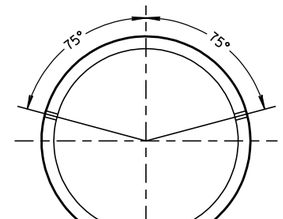
SLEEVE NUTS



LONGITUDINAL SECTION

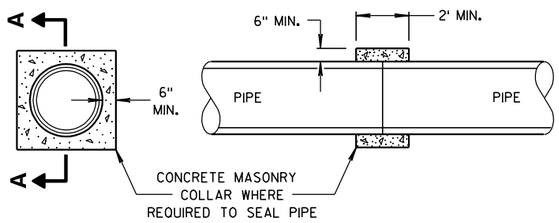
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

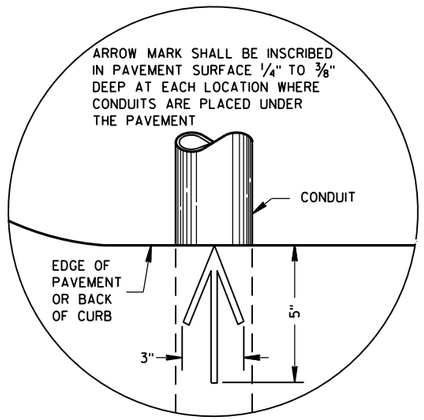
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

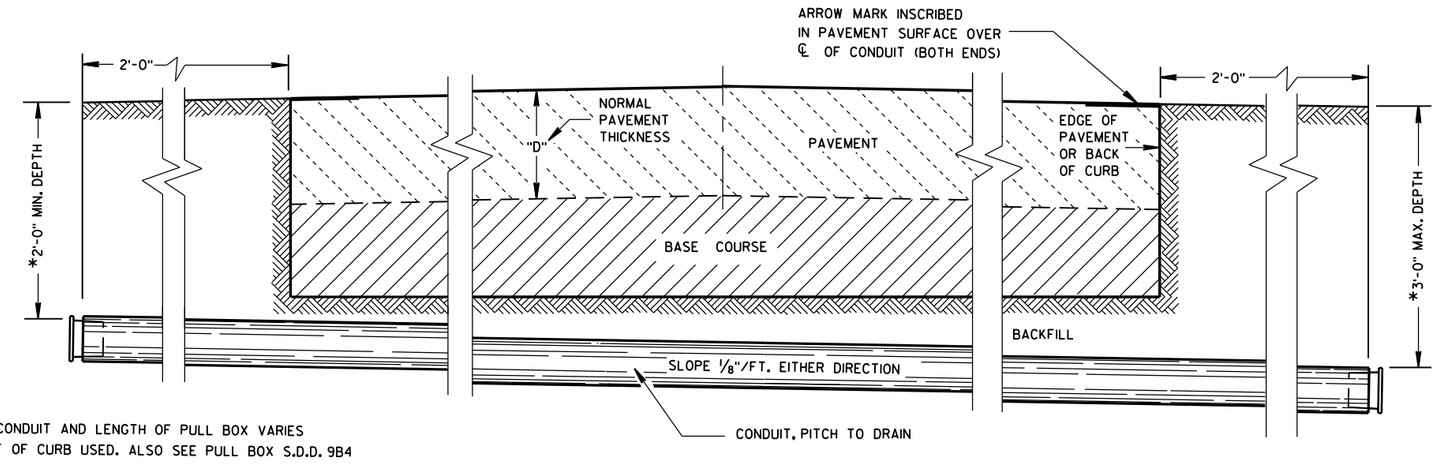
6

S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 1/2	22 1/2
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

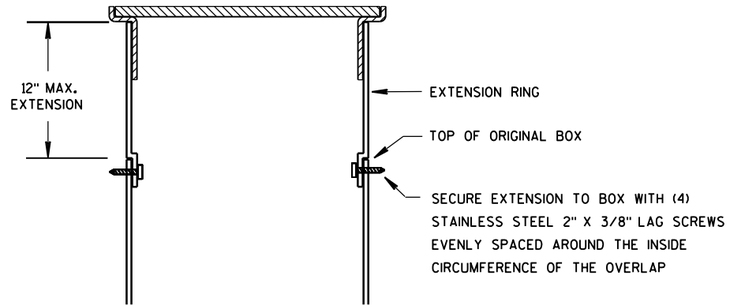
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

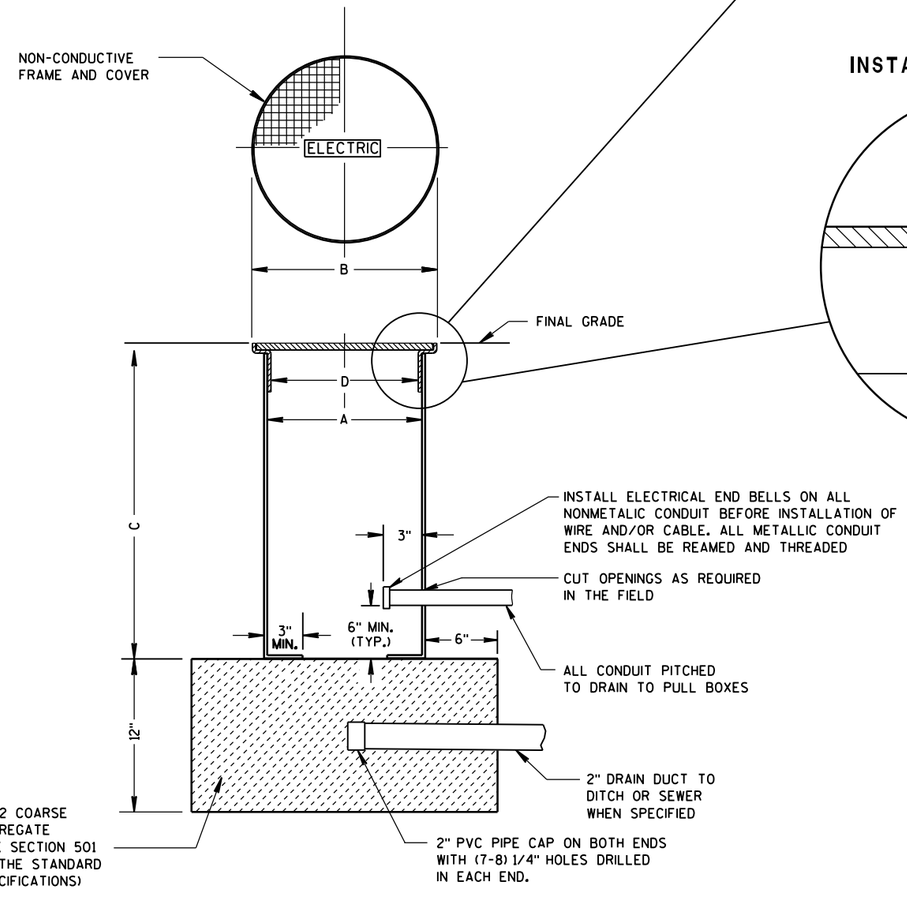
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

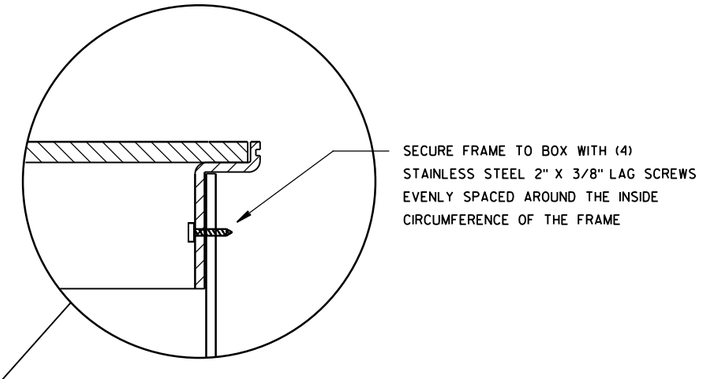


BOX EXTENSION

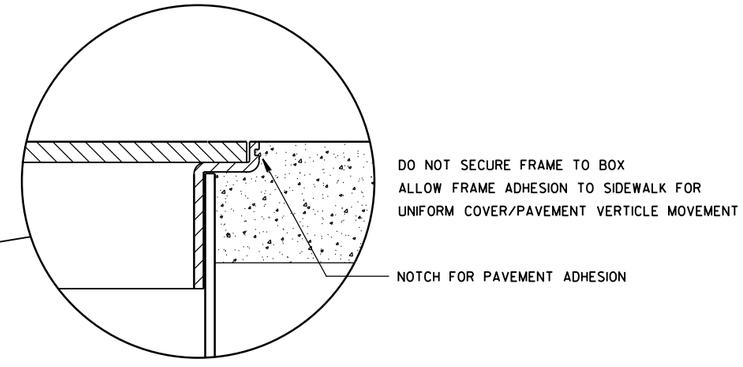


NON-CONDUCTIVE PULL BOX

INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



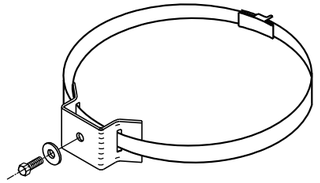
PULL BOX
NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

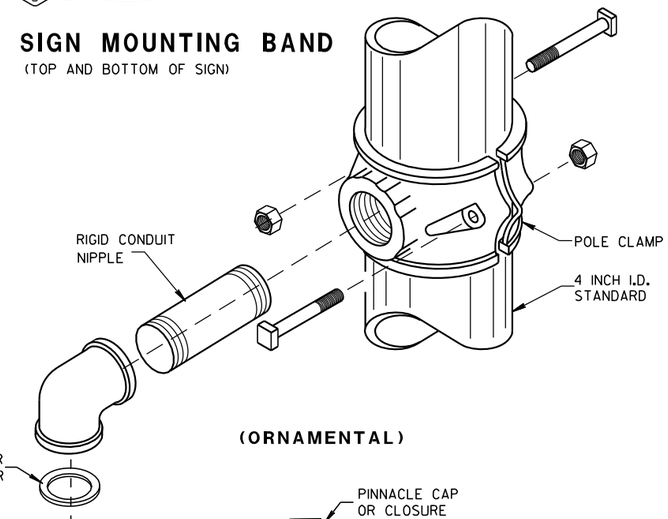
APPROVED
May 2017
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

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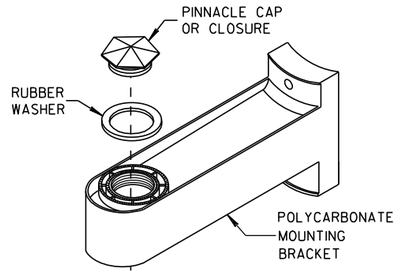
S.D.D. 9 B 16-1



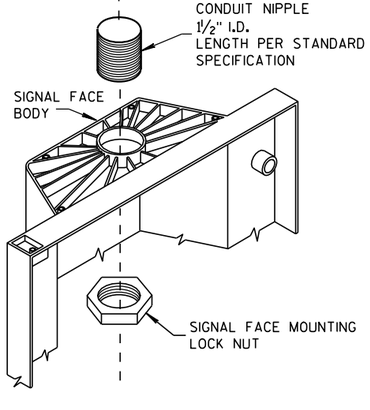
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



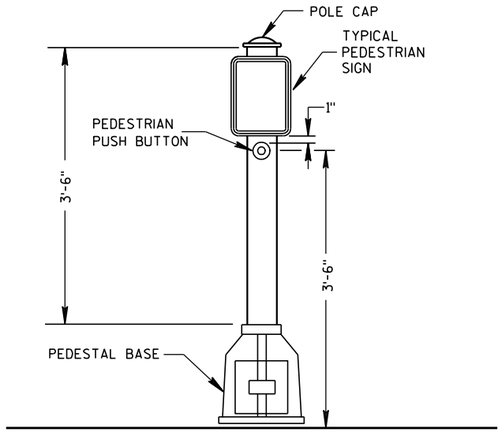
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

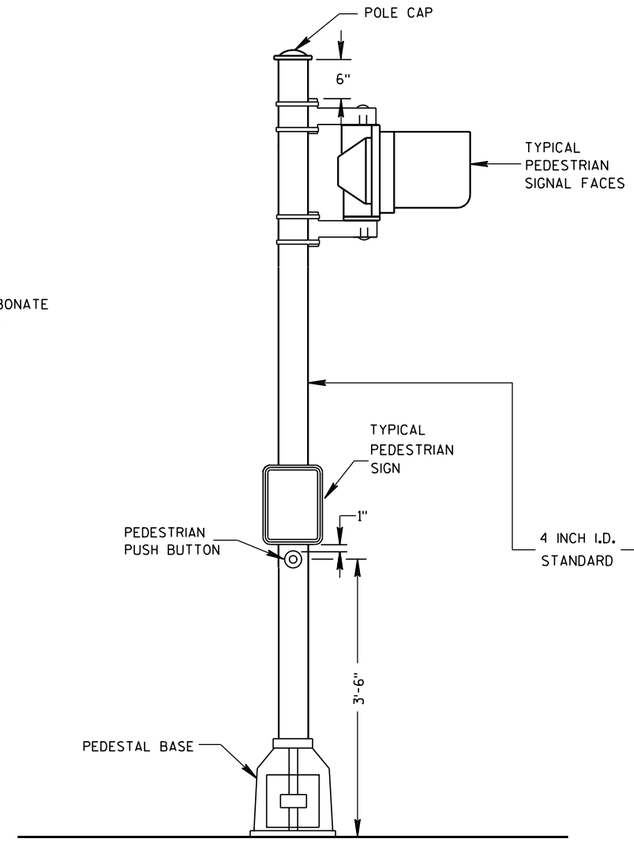
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

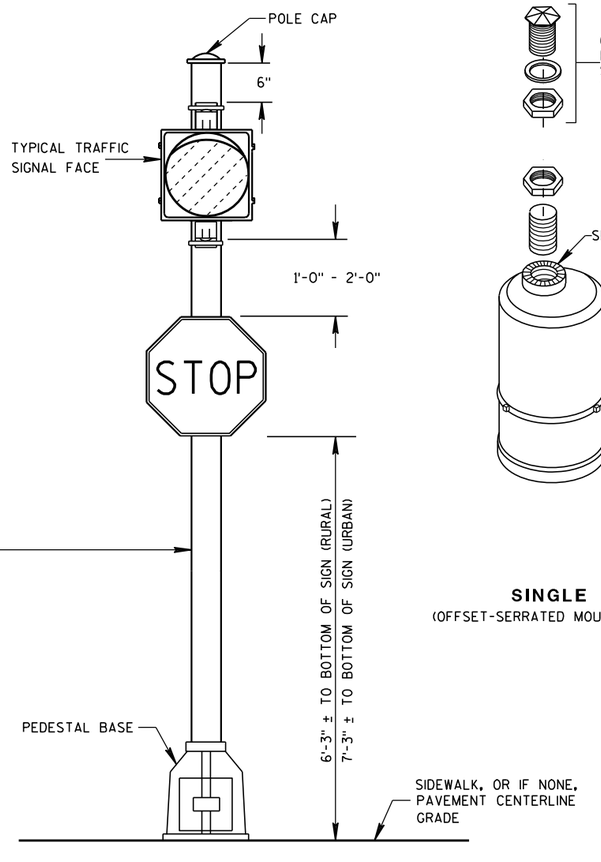
MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

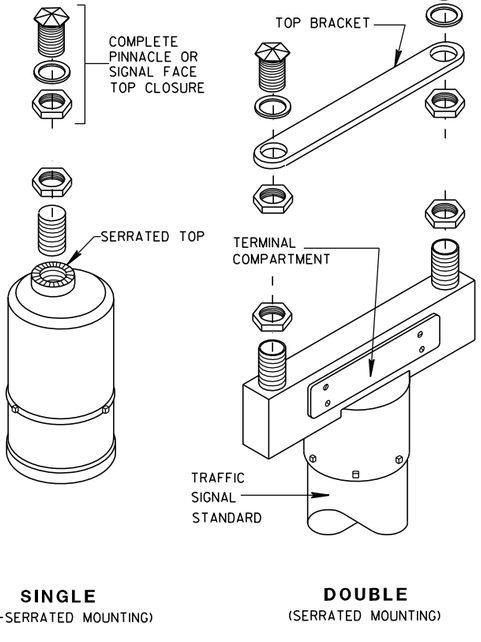
FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10 — DATE

/S/ John Corbin — STATE ELECTRICAL ENGI — HWYS

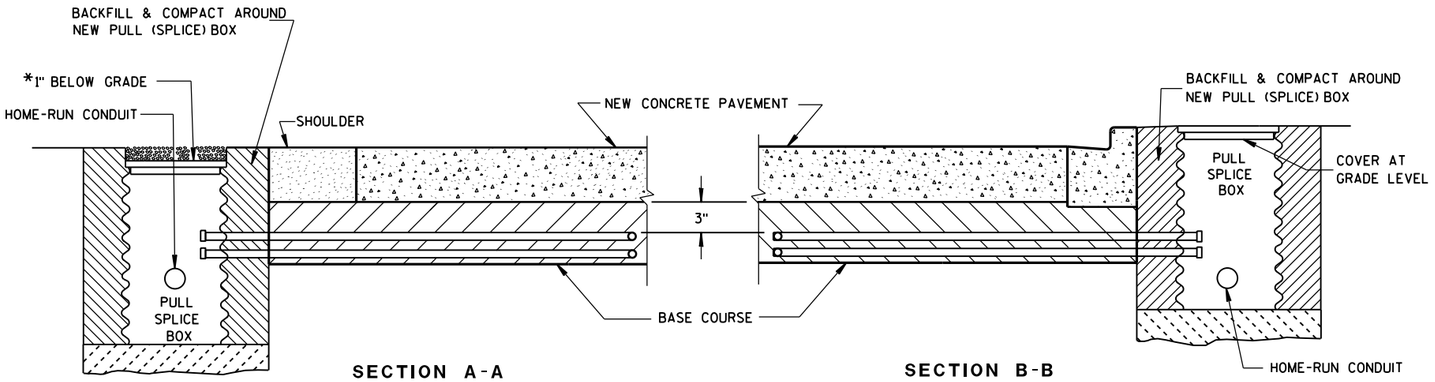
FHWA

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6

S.D.D. 9 E 7-5



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

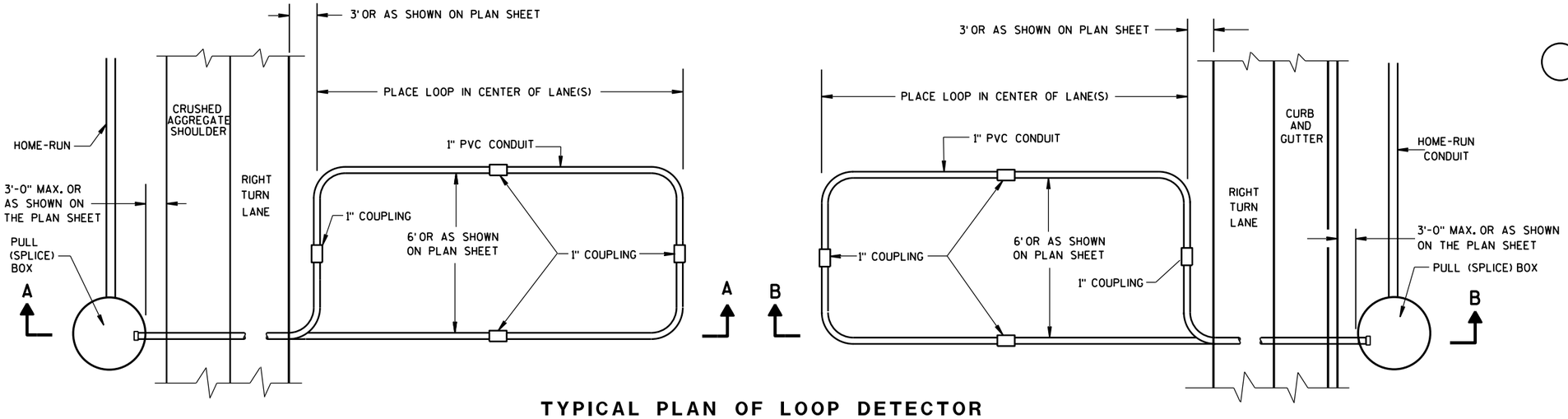
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

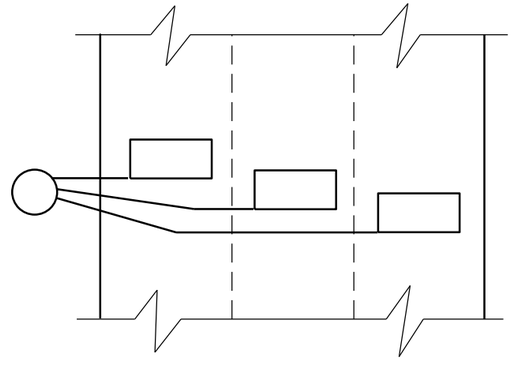
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.

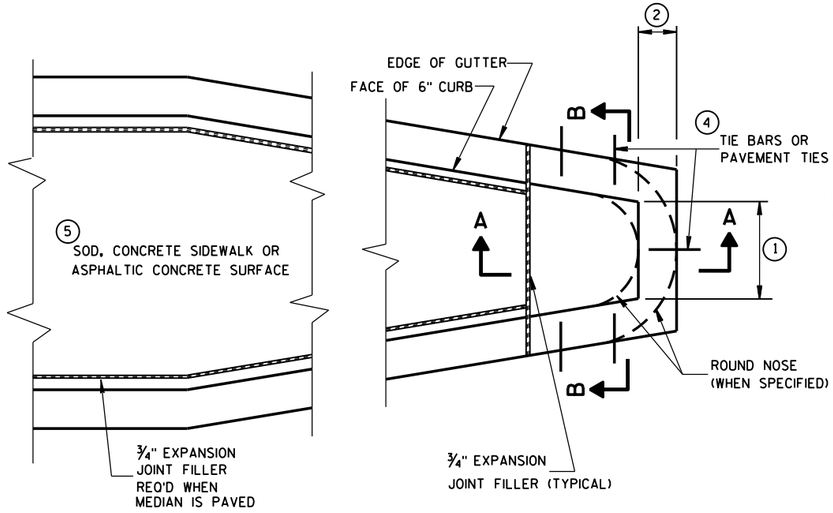


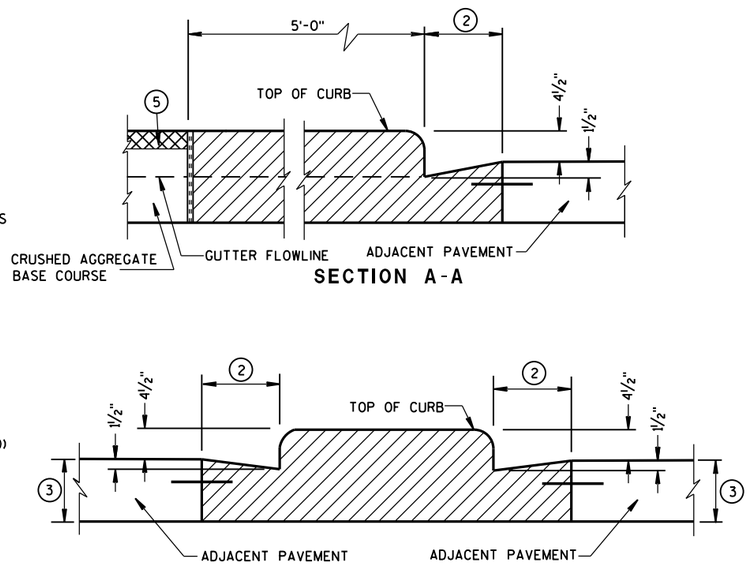
TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED Sept. 2014 — DATE /S/ Ahmet Demirbilek — STATE ELECTRICAL FHWA





CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

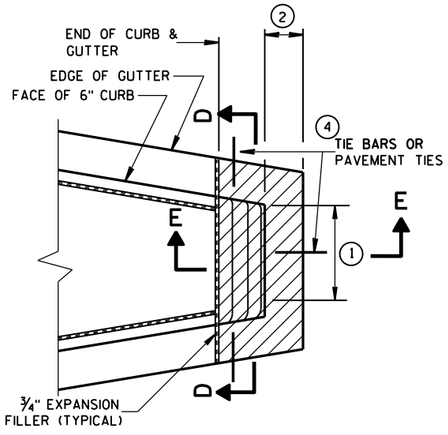
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

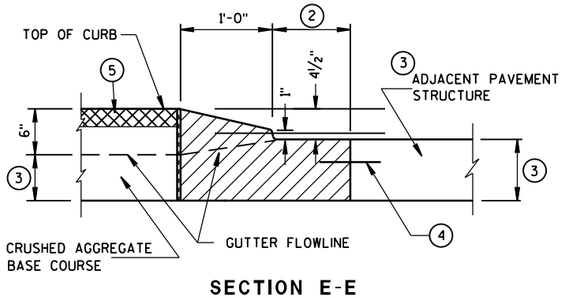
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

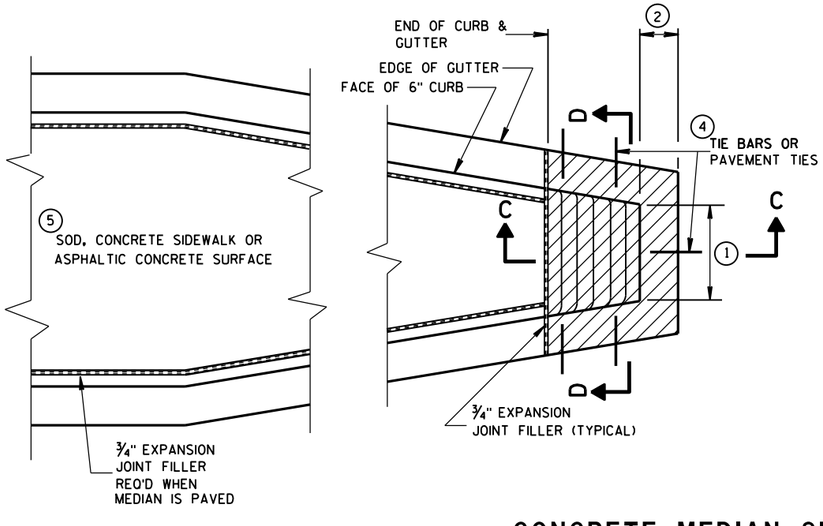
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

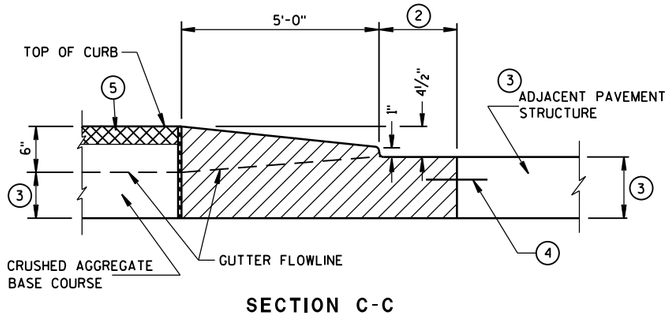




SECTION E-E

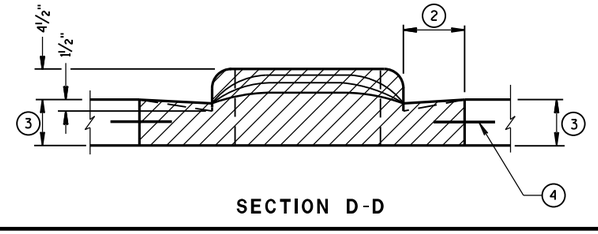
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

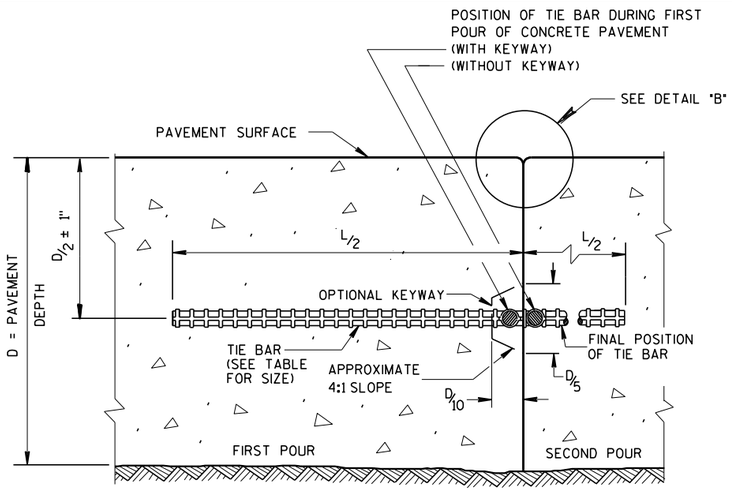
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

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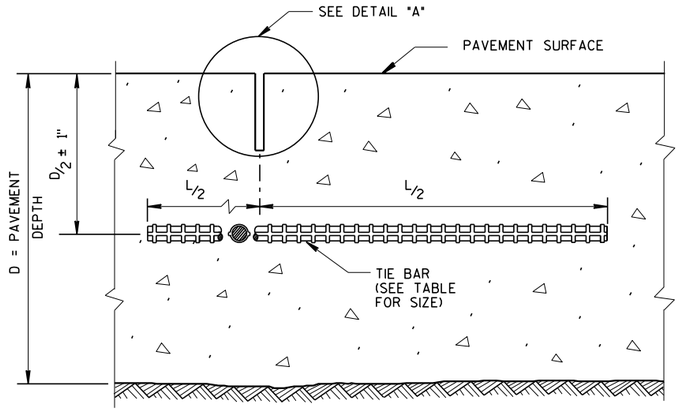
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S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

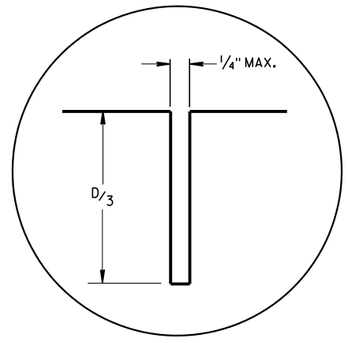
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

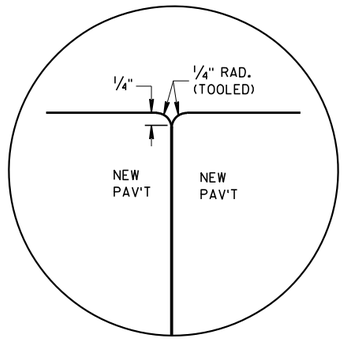
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

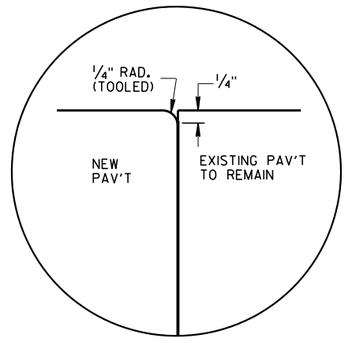
(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



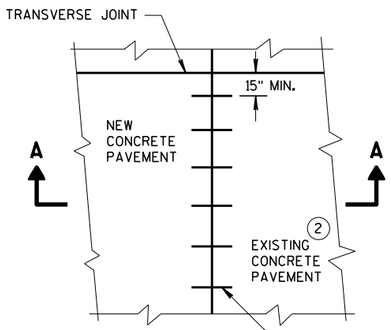
DETAIL "A"



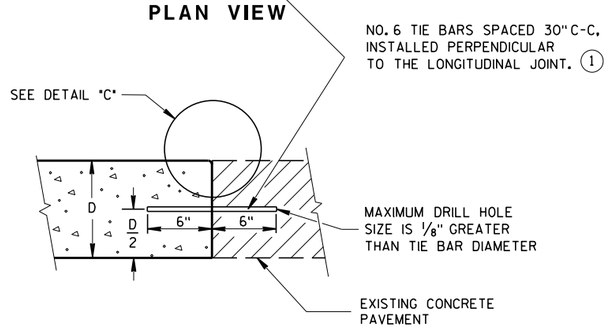
DETAIL "B"



DETAIL "C"



PLAN VIEW



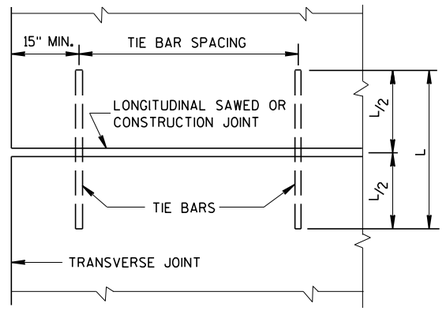
SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



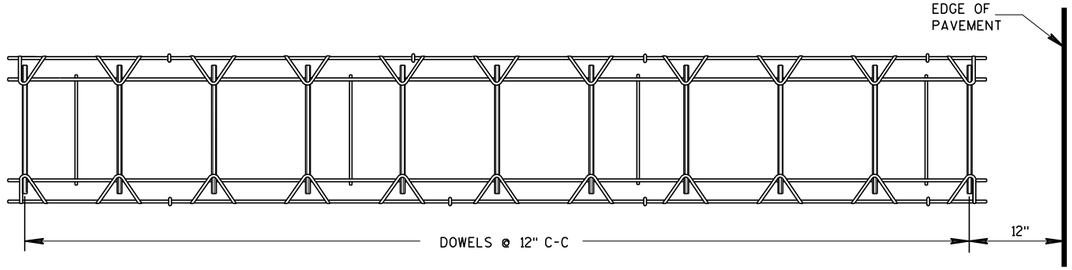
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPE
FHWA

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PLAN VIEW

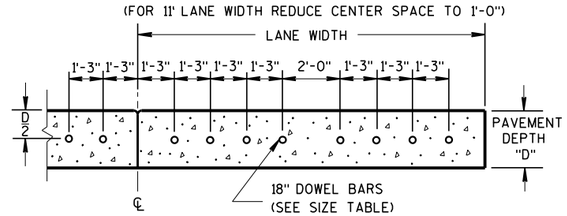


SIDE VIEW

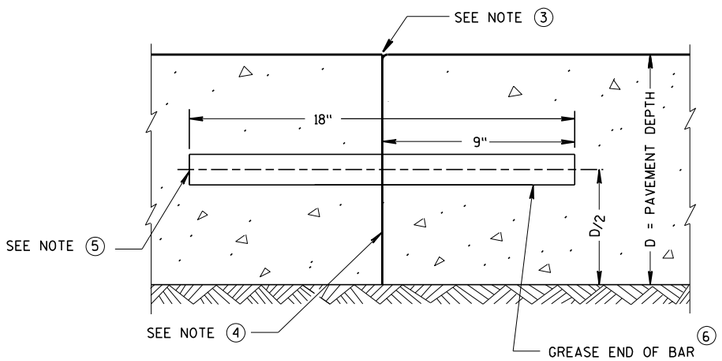
CONTRACTION JOINT DOWEL ASSEMBLY ①

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

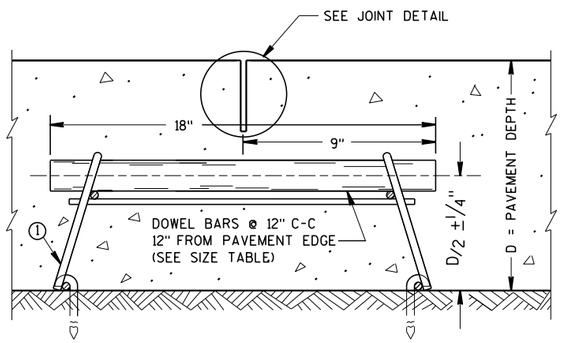
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



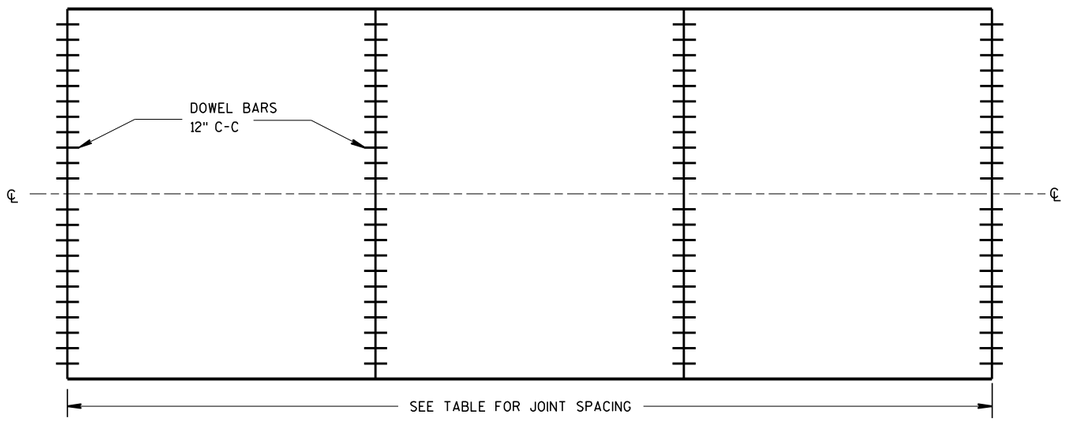
DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



TRANSVERSE CONSTRUCTION JOINT



DOWELED CONTRACTION JOINT



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

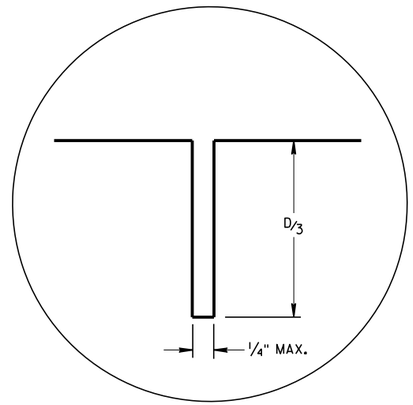
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

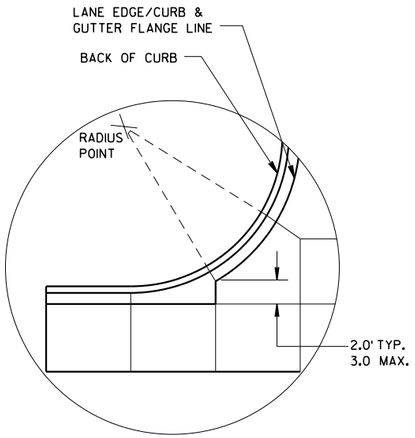


JOINT DETAIL

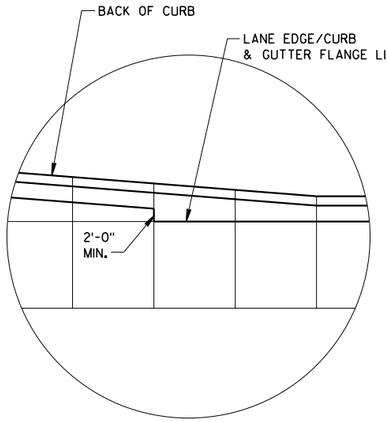
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

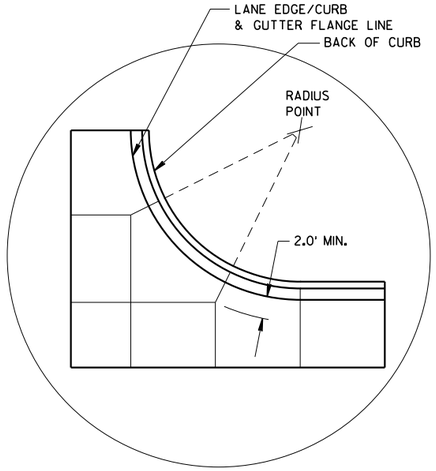
APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUP
FHWA



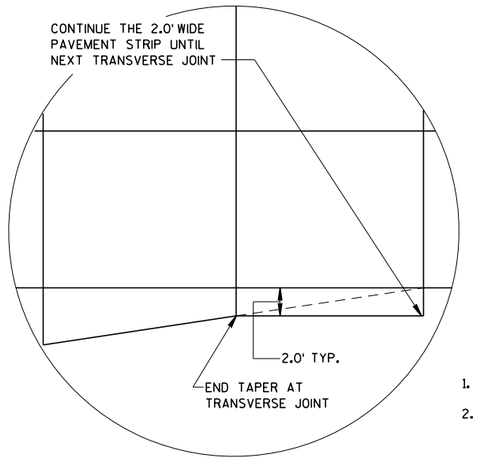
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

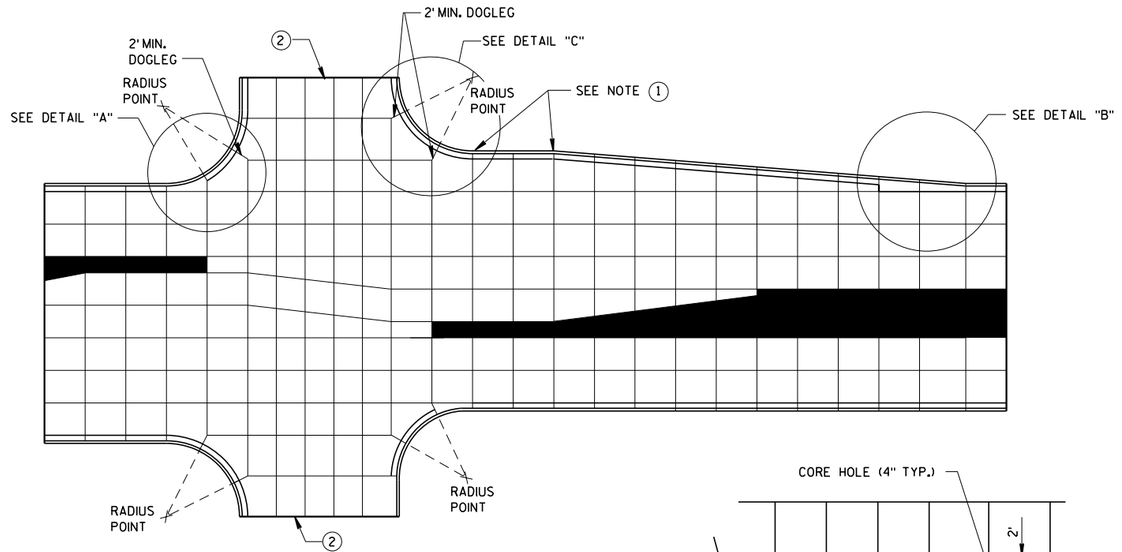
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.

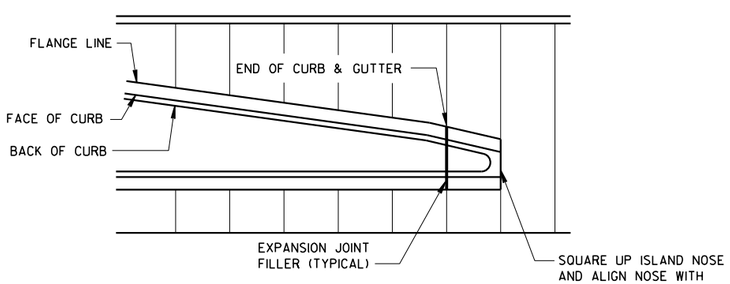


STANDARD INTERSECTION

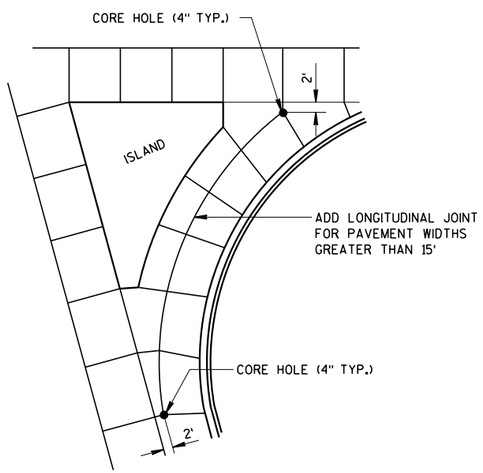
PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'

SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

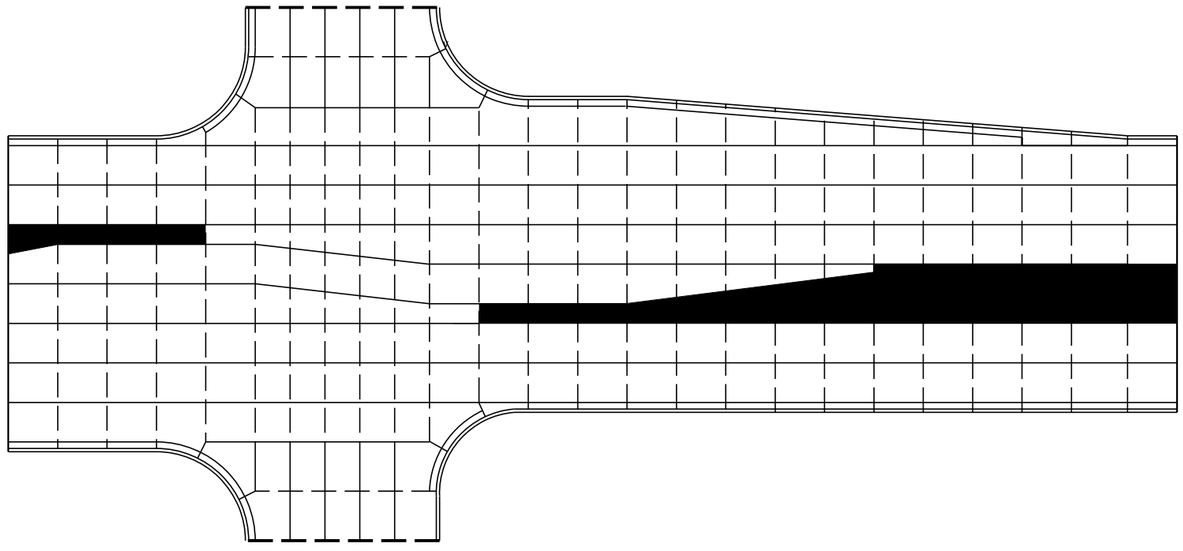
6
S.D.D. 13 C 18-6a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

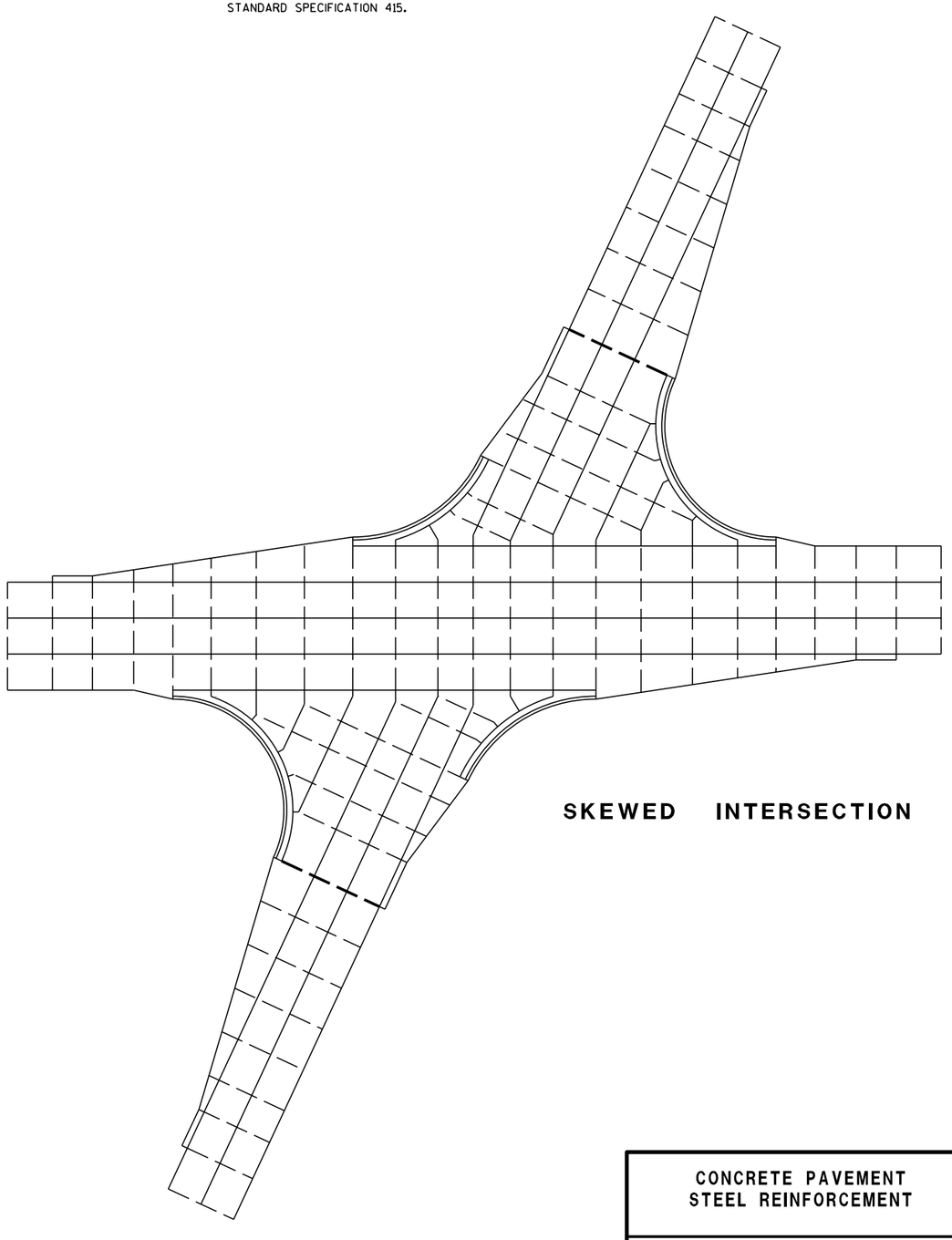
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

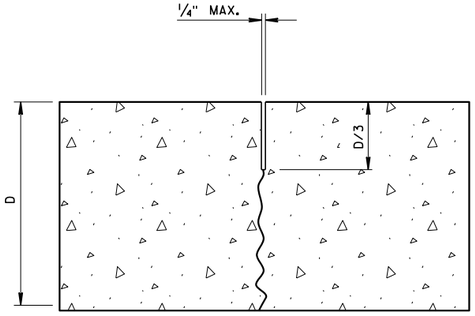
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S.D.D. 13 C 18-6b

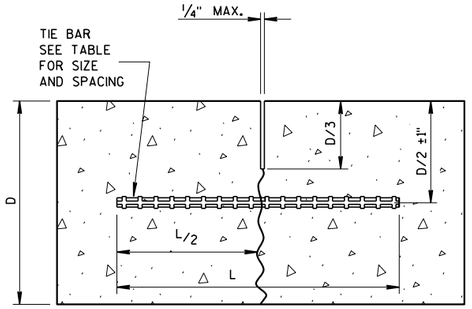
CONCRETE PAVEMENT
STEEL REINFORCEMENT

6

S.D.D. 13 C 18-6b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

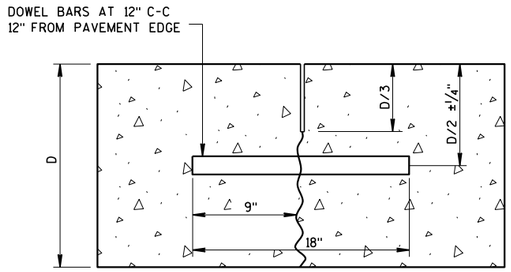
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

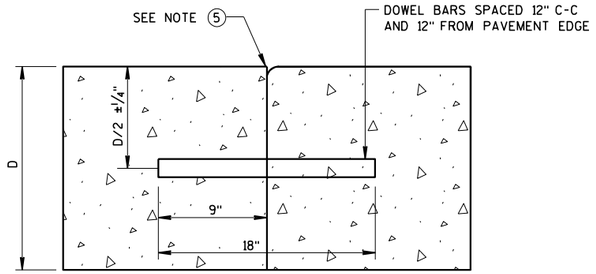
** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

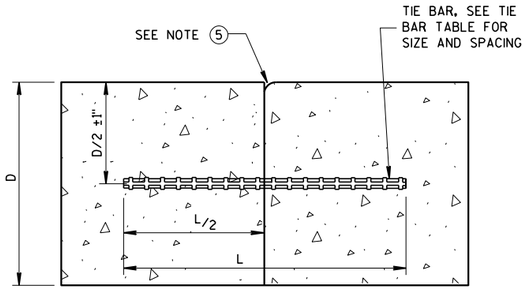
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



DOWELED-TRANSVERSE



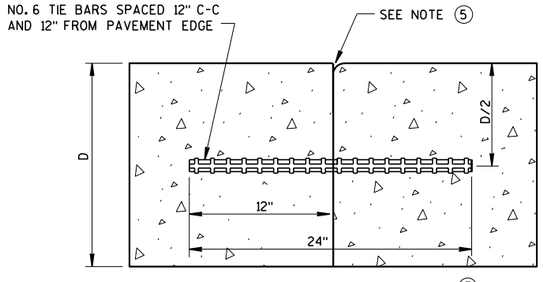
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL

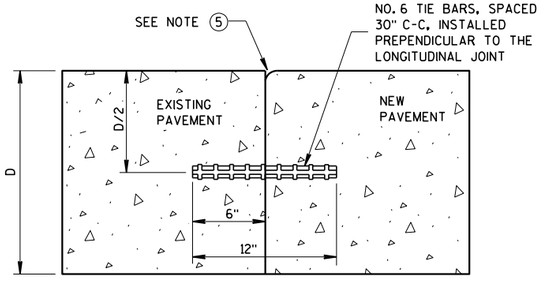
CONTRACTION JOINTS

SEE NOTE (2)



TIED TRANSVERSE (3)

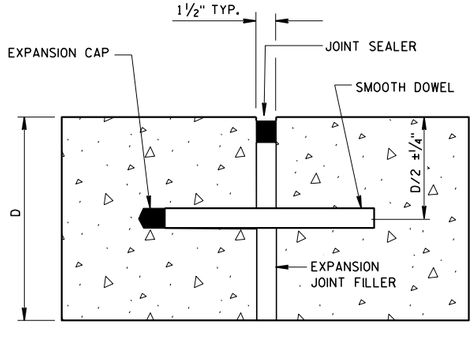
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

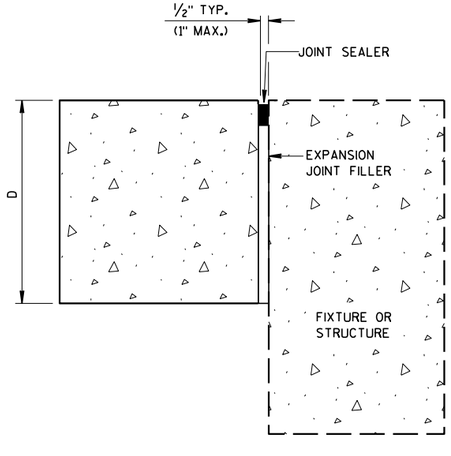
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

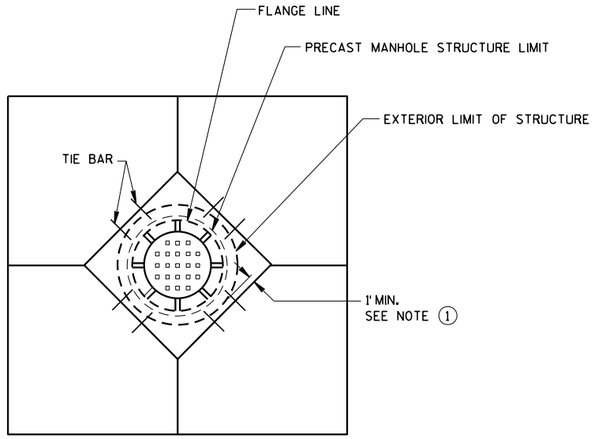
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

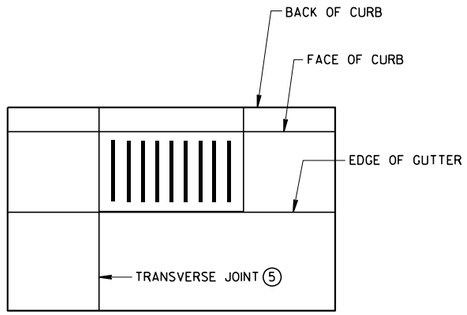
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

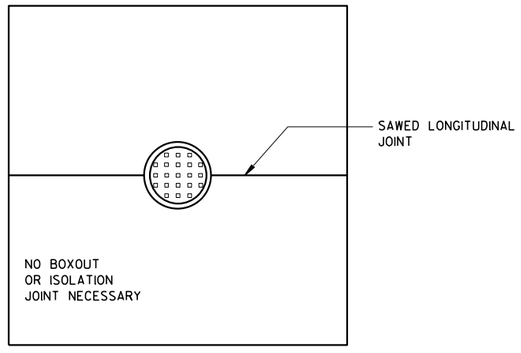
S.D.D. 13 C 18-6c



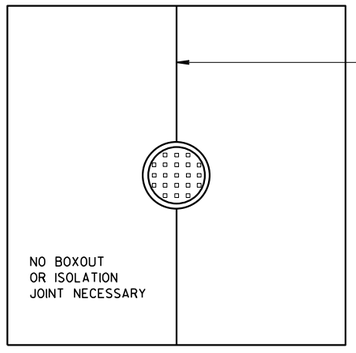
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



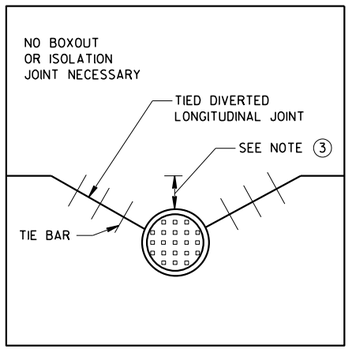
INLET WITH TRANSVERSE JOINT



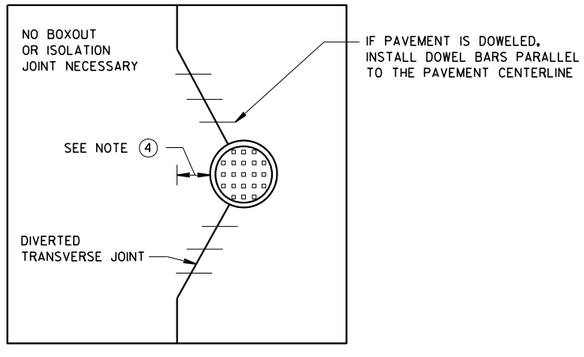
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

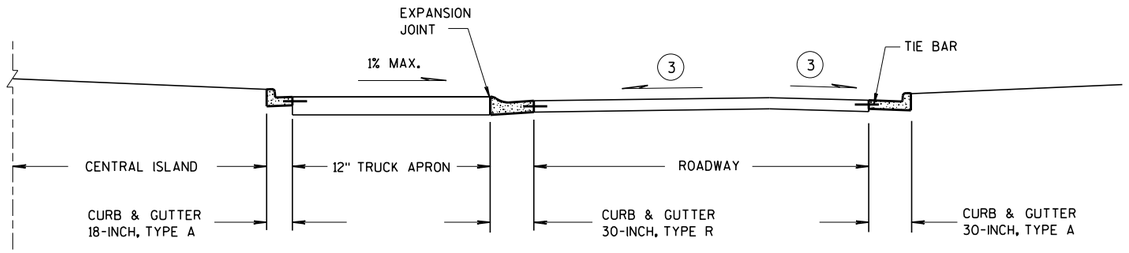
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

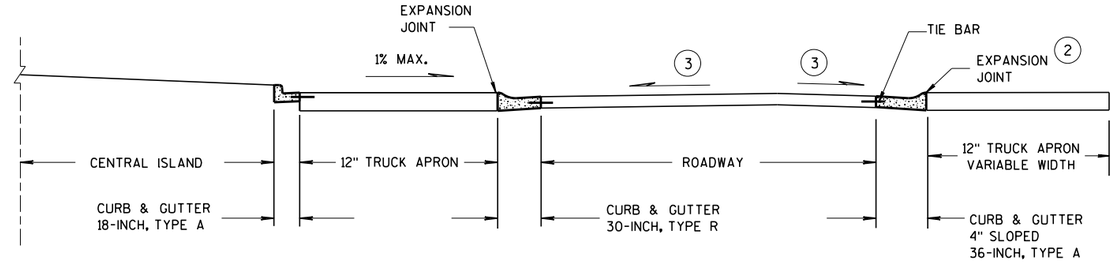
APPROVED
March 2018
DATE
/S/ Peter K[illegible] P.E.
PAVEMENT SUPT
FHWA

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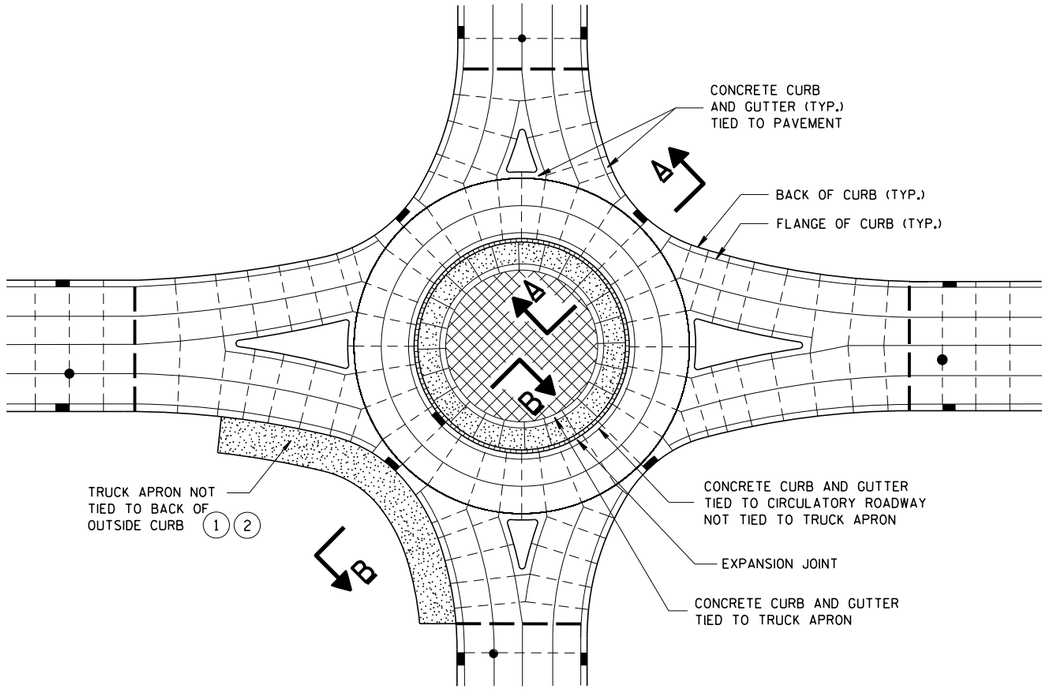
S.D.D. 13 C 18-6d



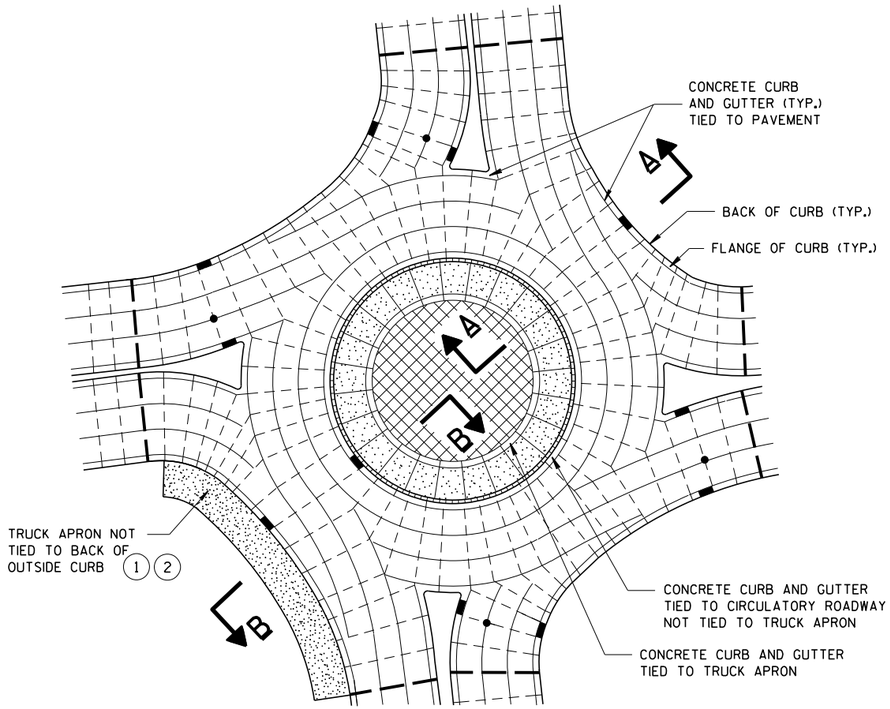
SECTION A-A



SECTION B-B



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 SHEET "a".

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMMODATE TRACKING OF OVERSIZE/OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON WIDTH IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

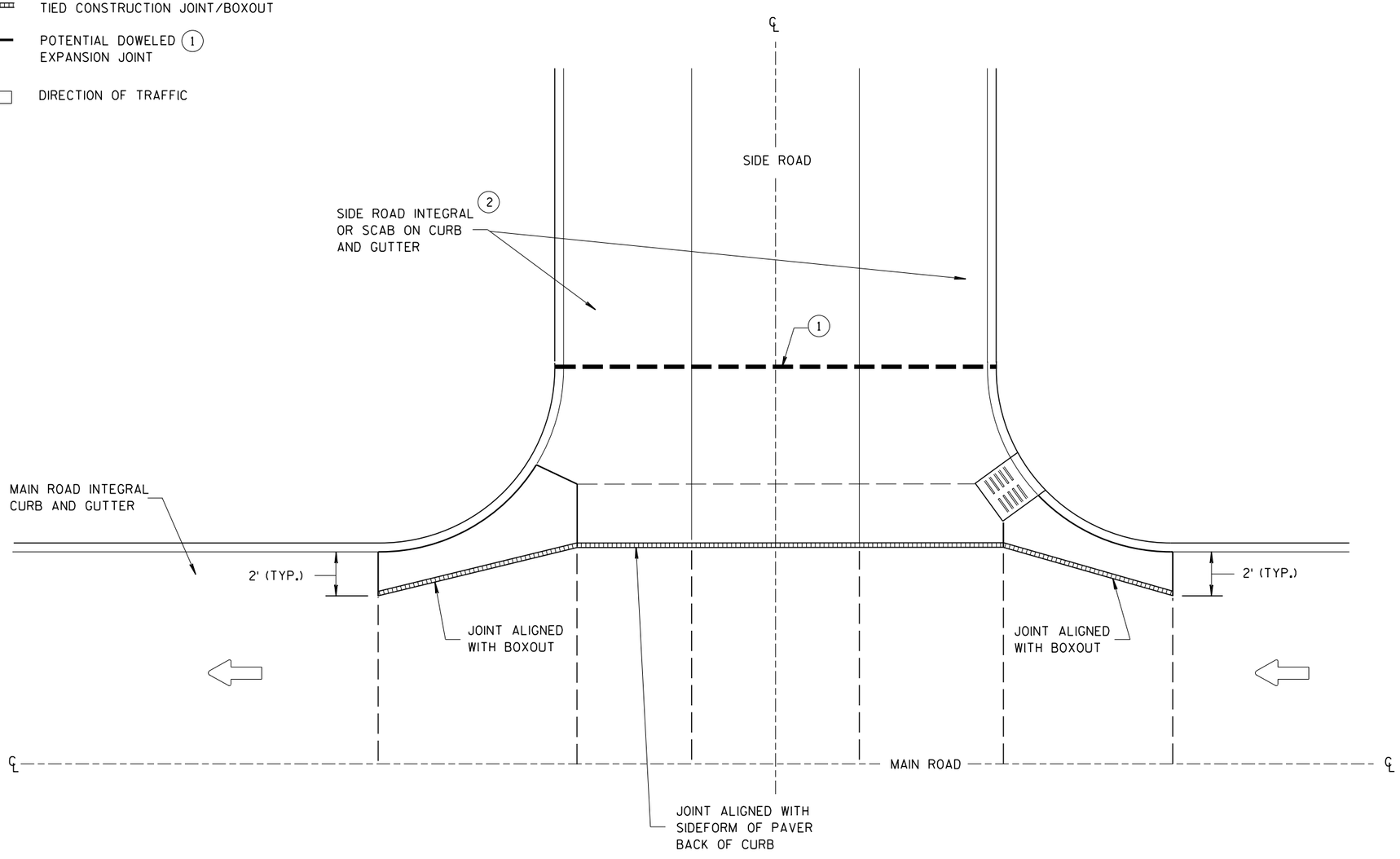
APPROVED
March 2018 — DATE
/S/ Peter Ke — PAVEMENT SUF
FHWA

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S.D.D. 13 C 18-6e

LEGEND

- DOWELED JOINT
- TIED JOINT
- TIED CONSTRUCTION JOINT/BOXOUT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



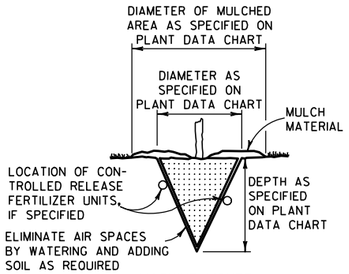
GENERAL NOTES

1. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH, ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
2. PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USED.

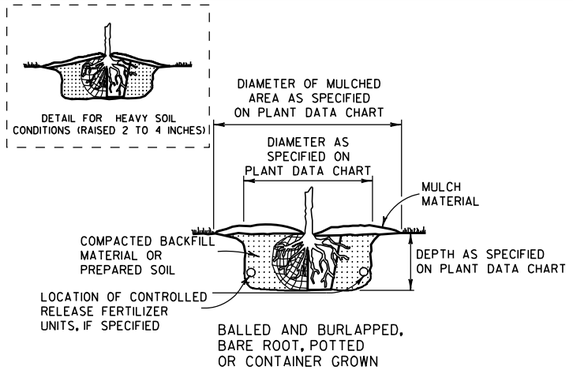
INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
March 2018 DATE	/S/ Peter Ke-- P.E. PAVEMENT SUP
FHWA	

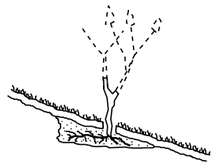
6
S.D.D. 13 C 18-6f



MACHINE MOVED

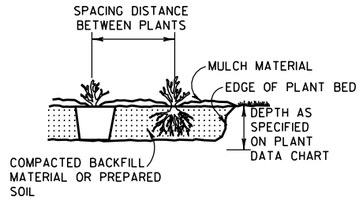


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



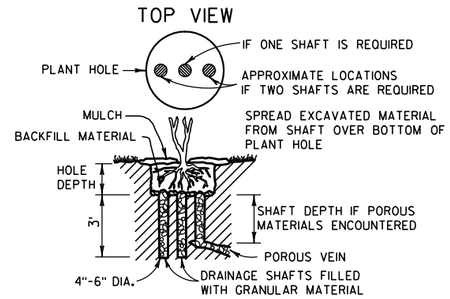
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



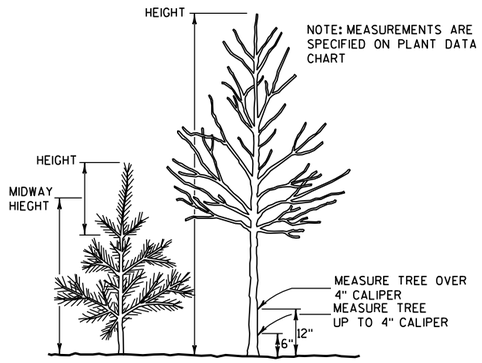
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

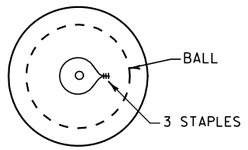


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

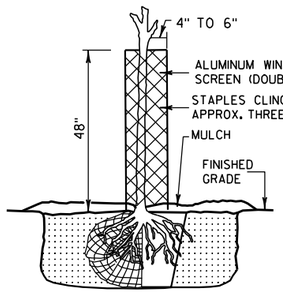
DRAINING



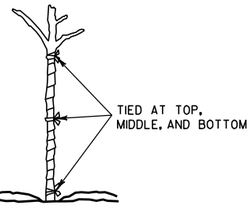
MEASURING



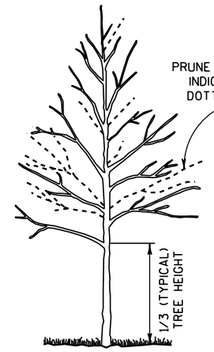
TOP VIEW



RODENT PROTECTION



WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

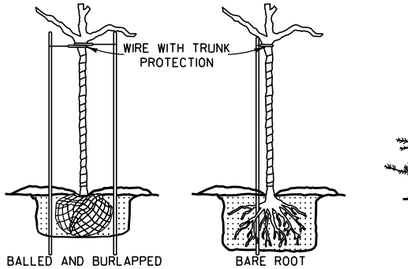


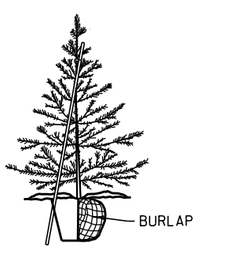
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

SUMAC

TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

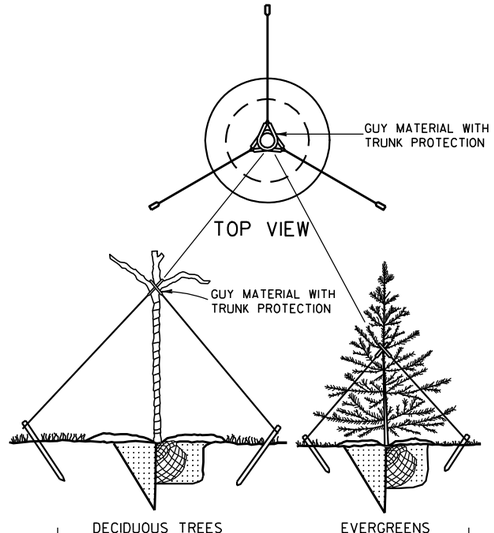
PRUNING



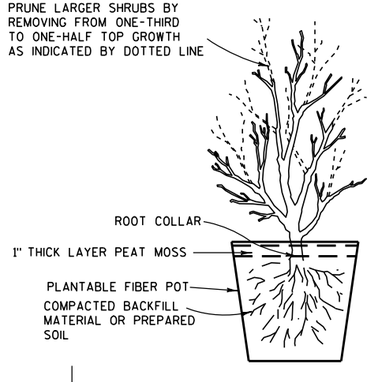


NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING



POTTING

NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

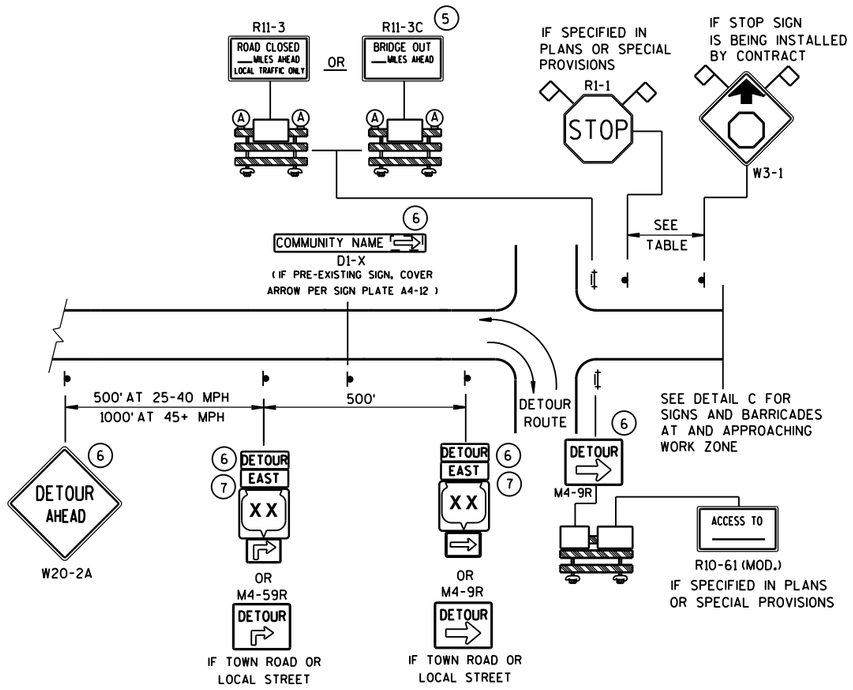
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

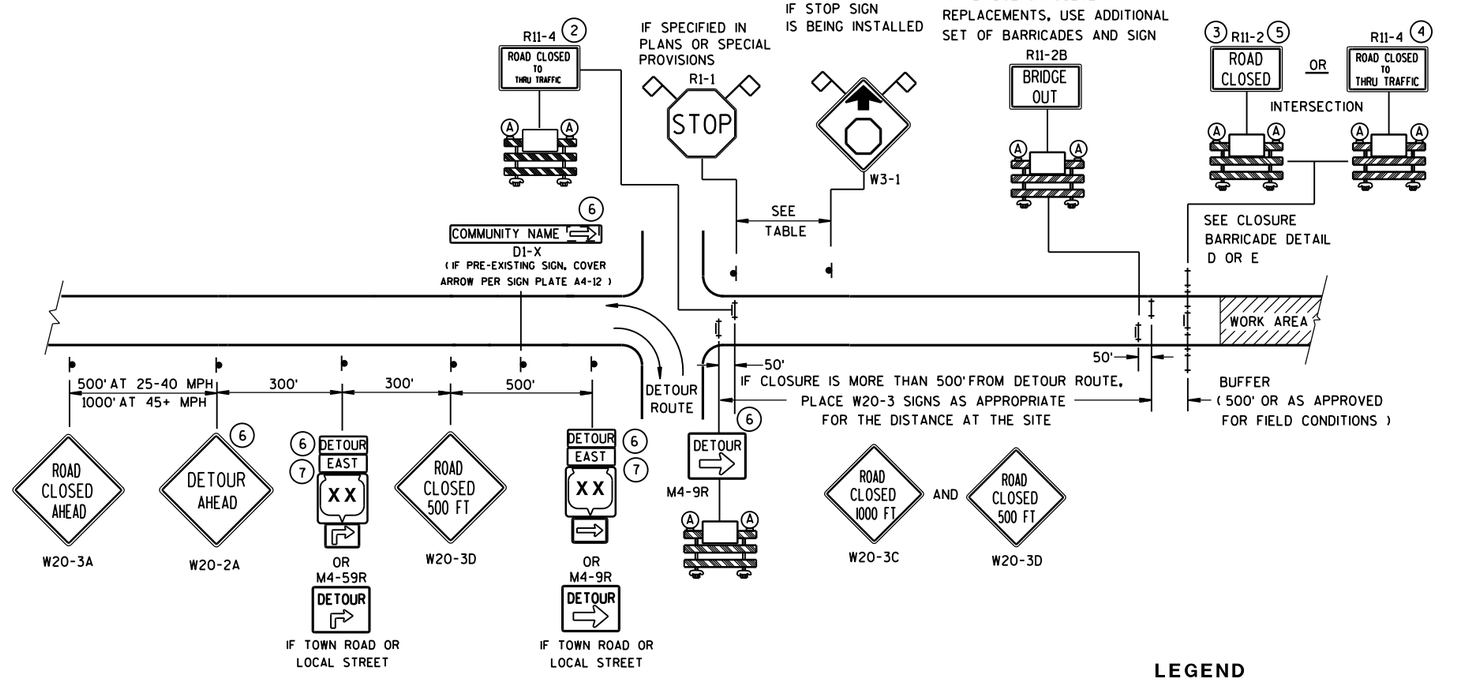
6

S.D.D. 14 A 2-1



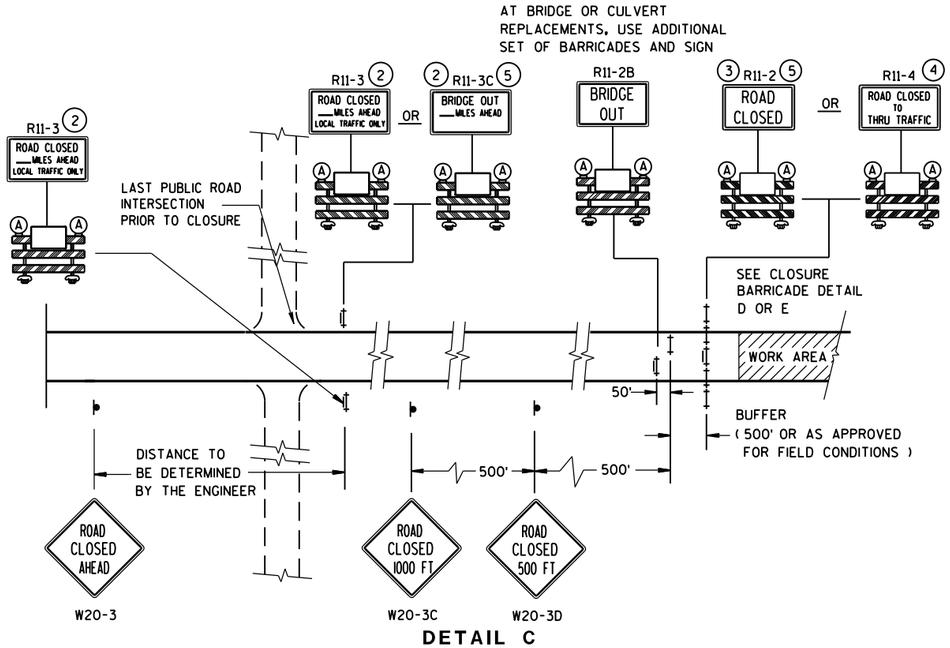
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

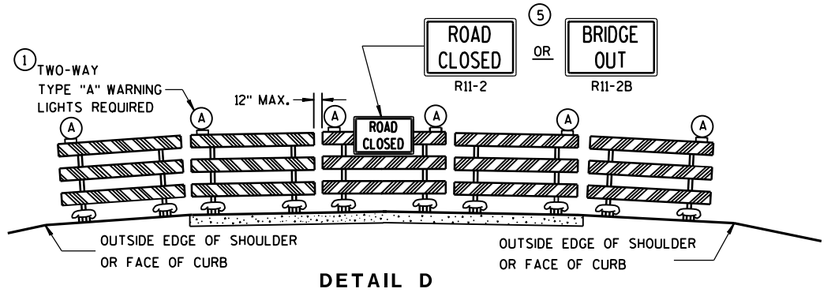
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

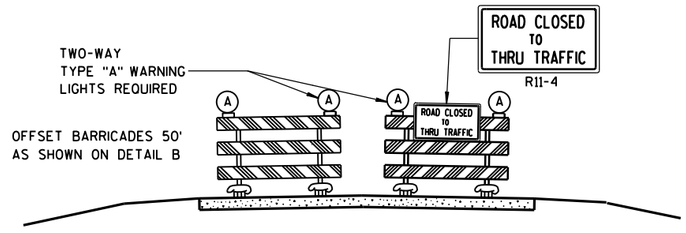
S.D.D. 15 C 2-6a



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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" 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.)
- M05-1 AND M06-1 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 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 LANE 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 MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FIC

FHWA

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S.D.D. 15 C 2-6b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

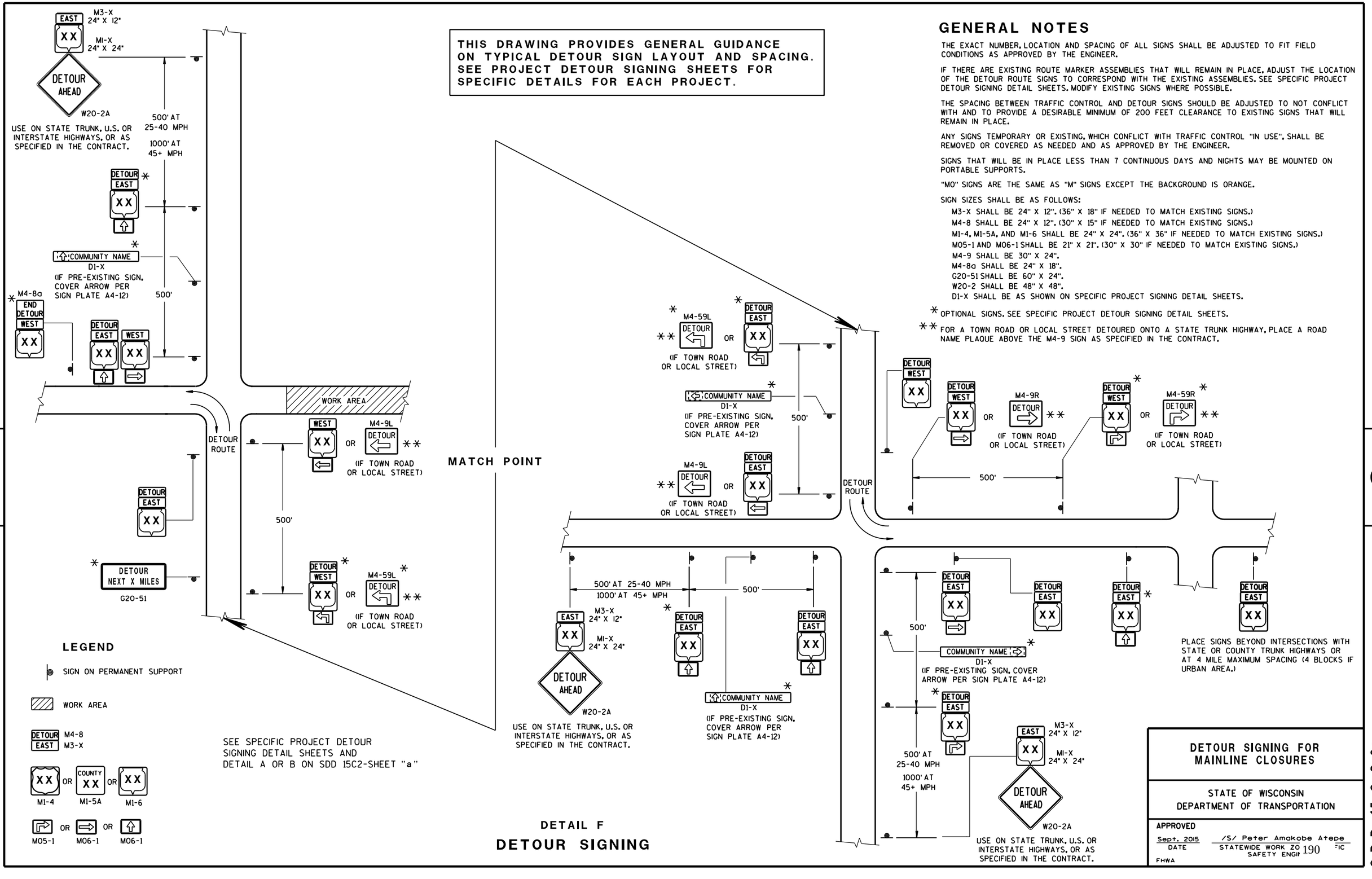
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" 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.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR EAST — M4-8 / M3-X
- XX OR COUNTY XX OR XX — M1-4 / M1-5A / M1-6
- MO5-1 OR MO6-1 OR MO6-1

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

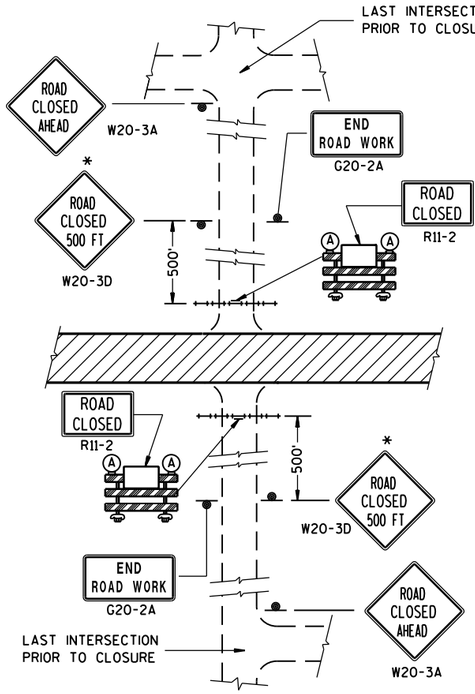
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI FIC

FHWA

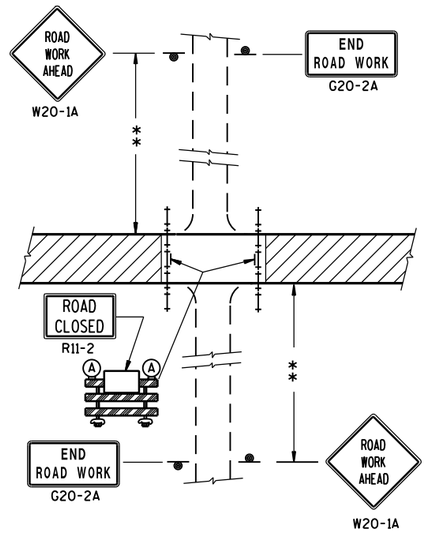
S.D.D. 15 C 2-6c

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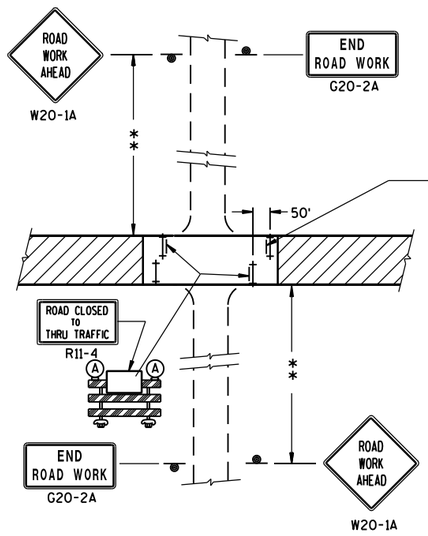
DETAIL 1

(NO ACCESS TO PROJECT)



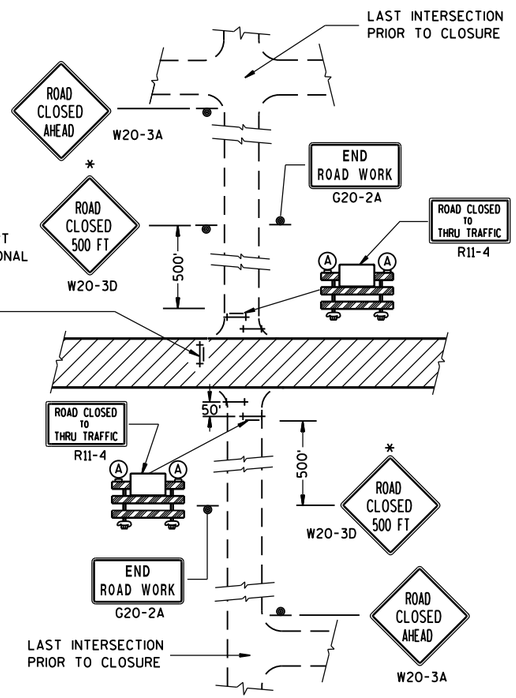
DETAIL 2

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



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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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.

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 RE-ESTABLISHED.

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 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 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENG
FHWA

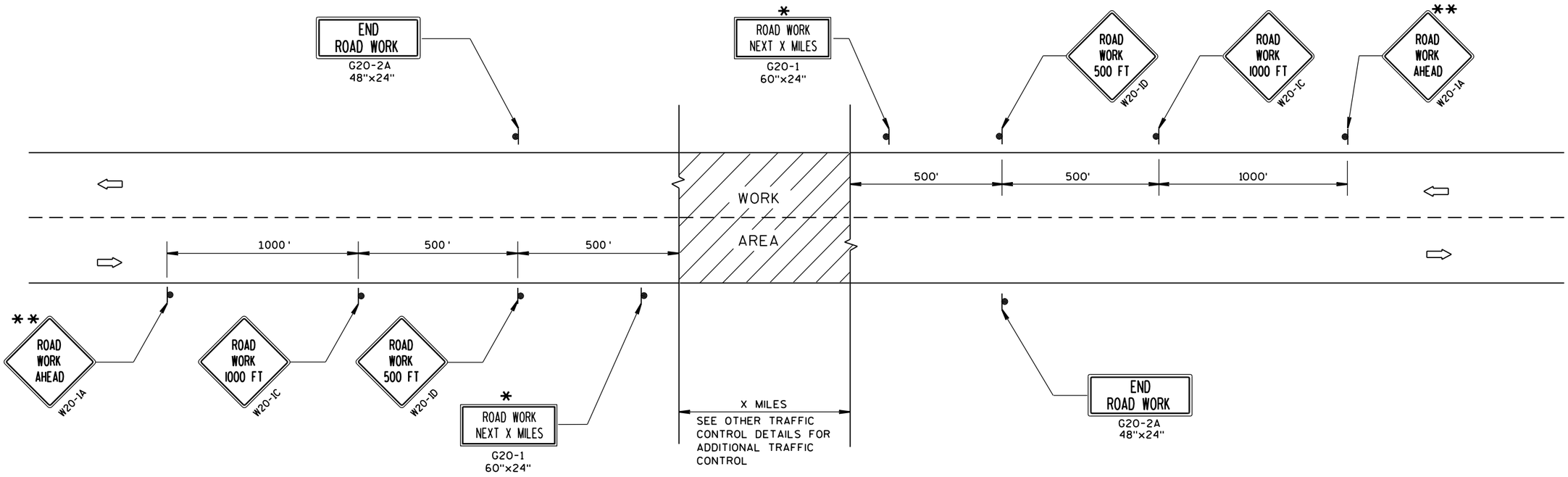
6

S.D.D. 15 C 3-4

6

S.D.D. 15 C 3-4

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

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

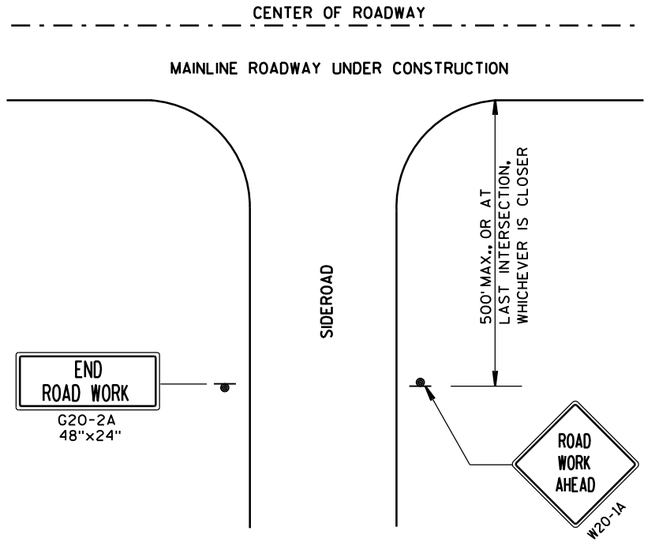
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

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

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

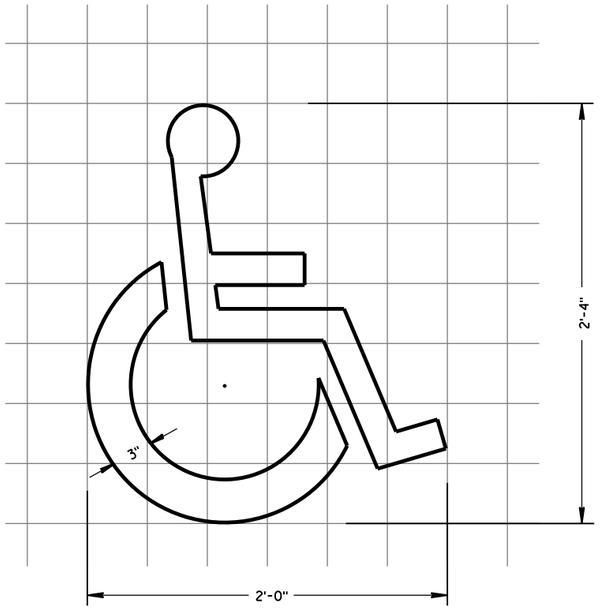
APPROVED
Sept. 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENG
FHWA

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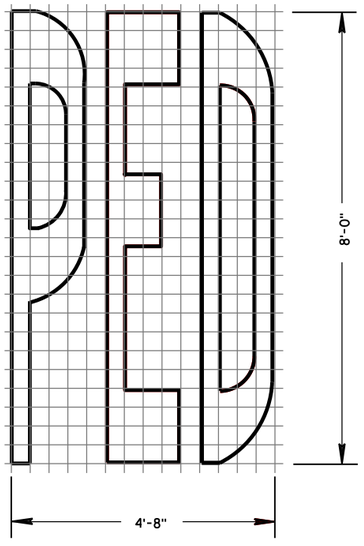
S.D.D. 15 C 4-4

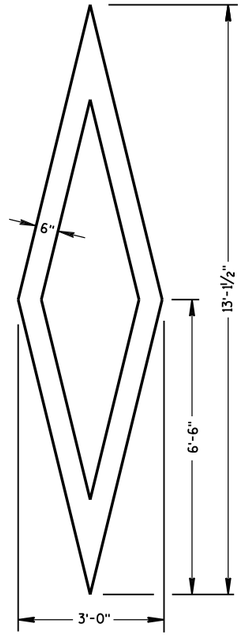
GENERAL NOTES

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



HANDICAP SYMBOL





PREFERENTIAL LANE SYMBOL

6

S.D.D. 15 C 7-14a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARK EER

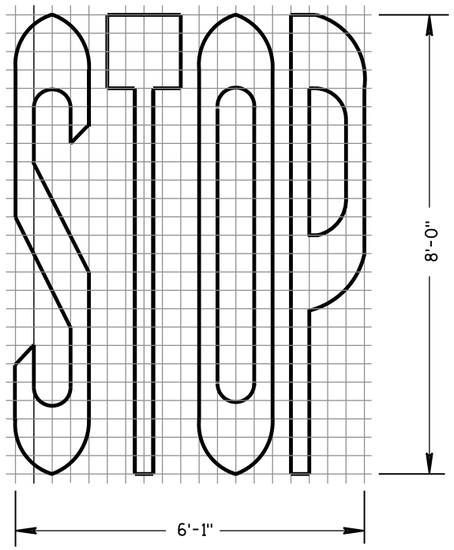
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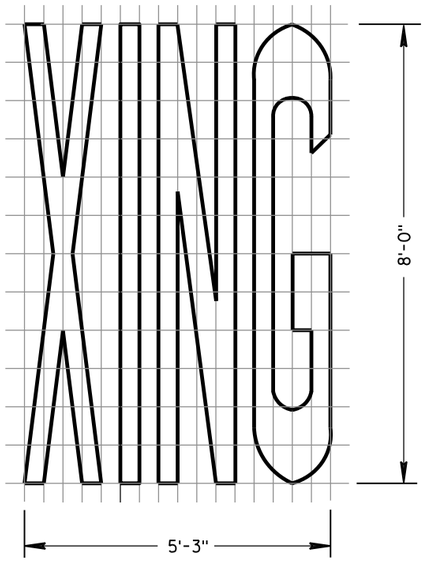
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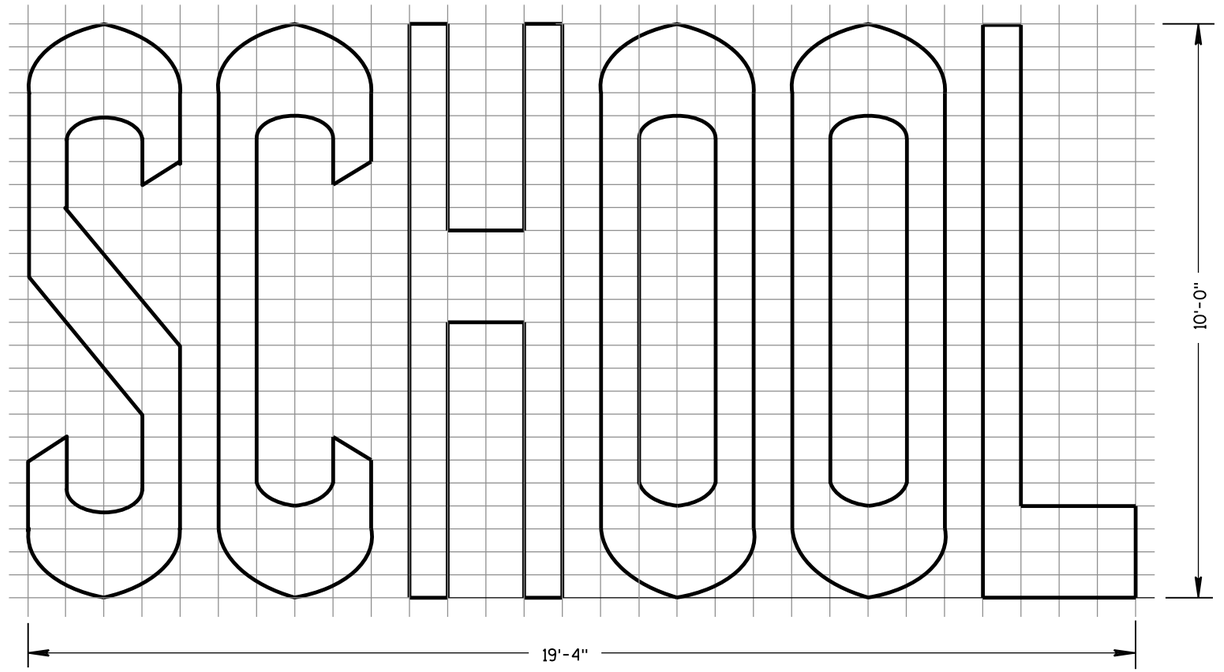
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GENERAL NOTES

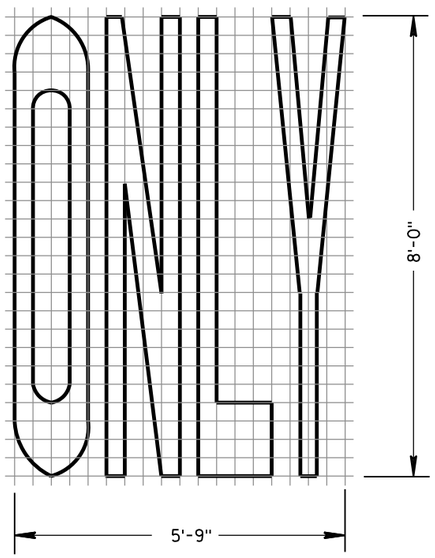
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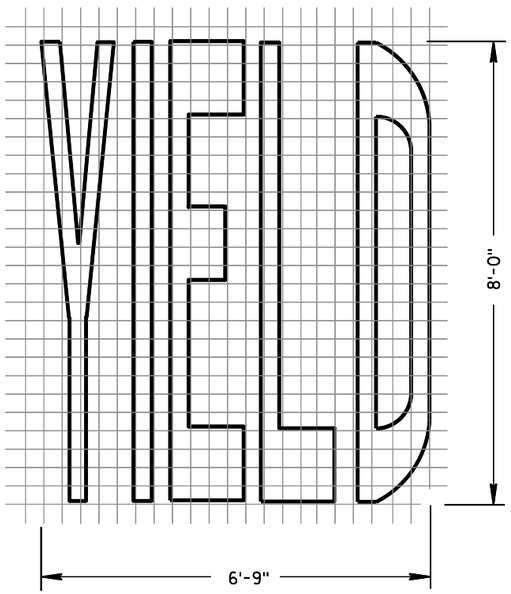


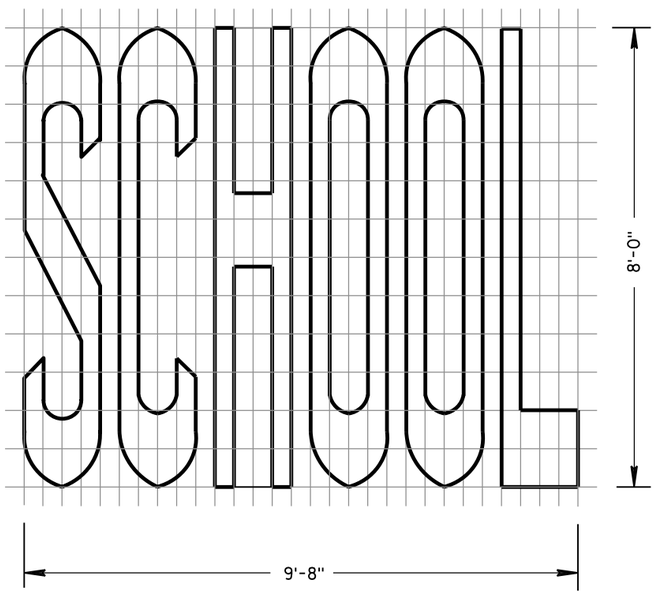




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARK ENGINEER

FHWA

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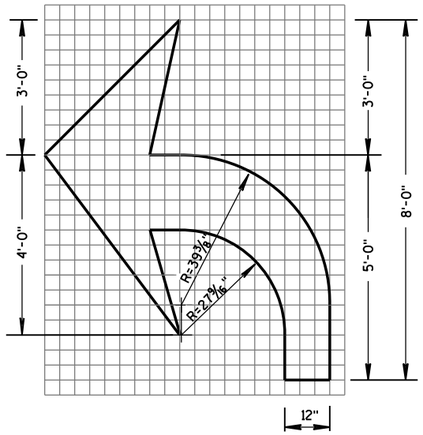
S.D.D. 15 C 7-14b

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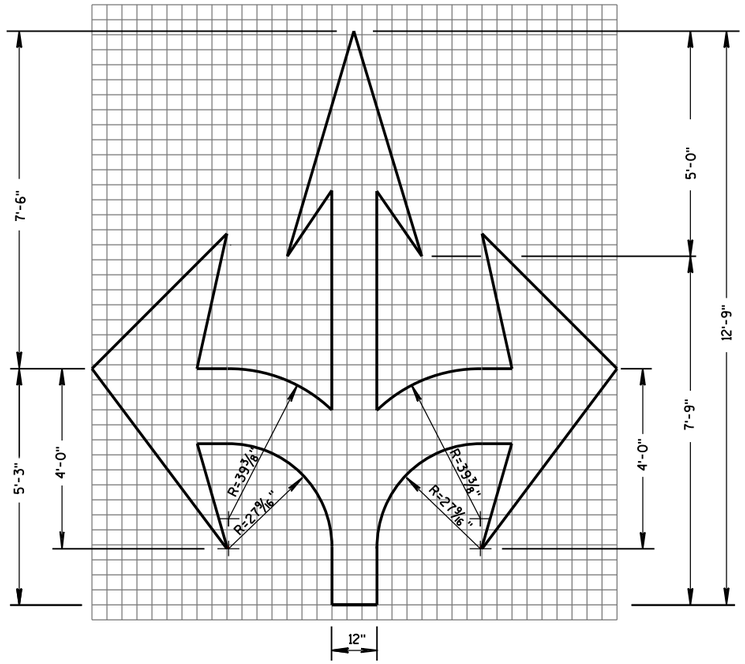
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GENERAL NOTES

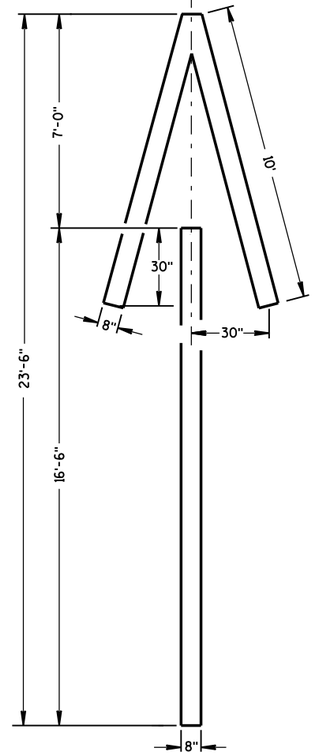
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



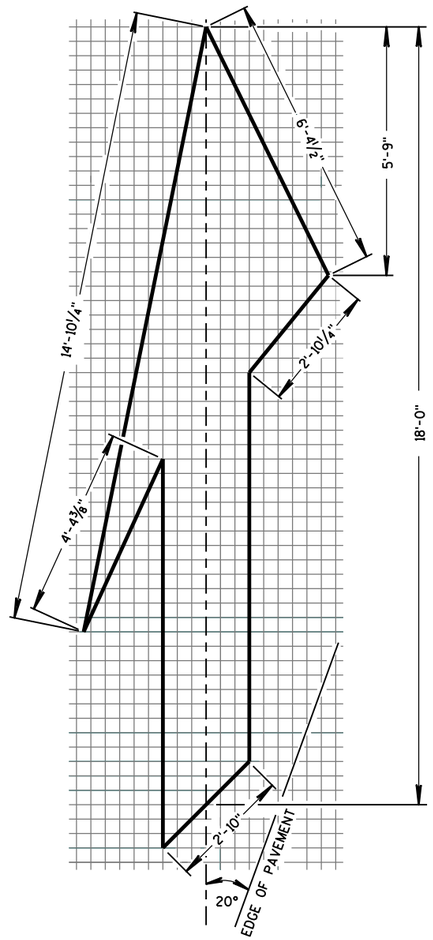
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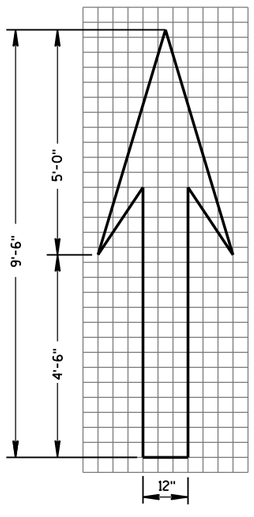
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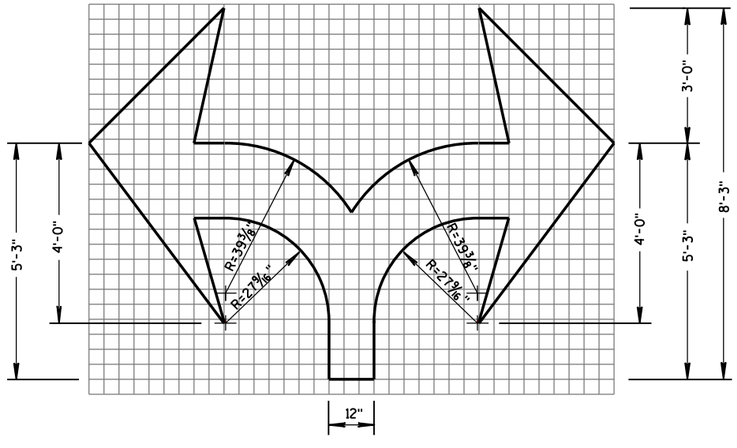
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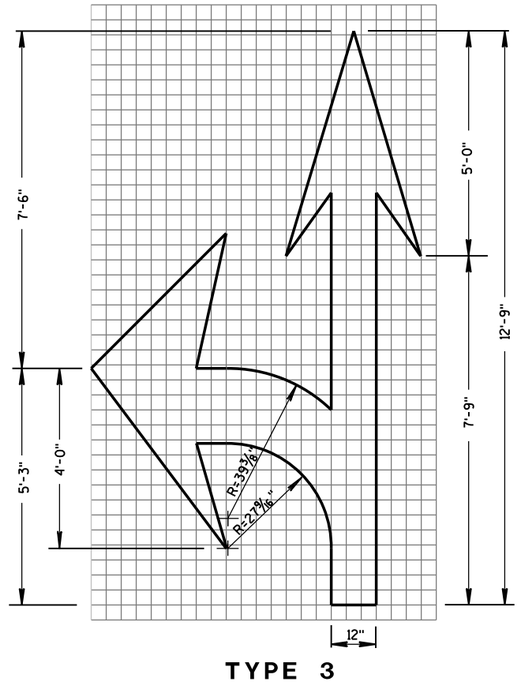
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

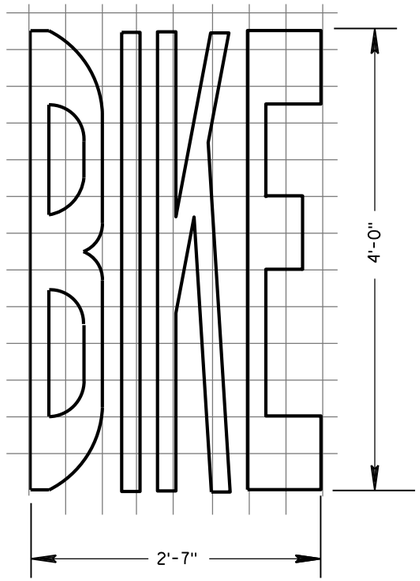
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER
FHWA

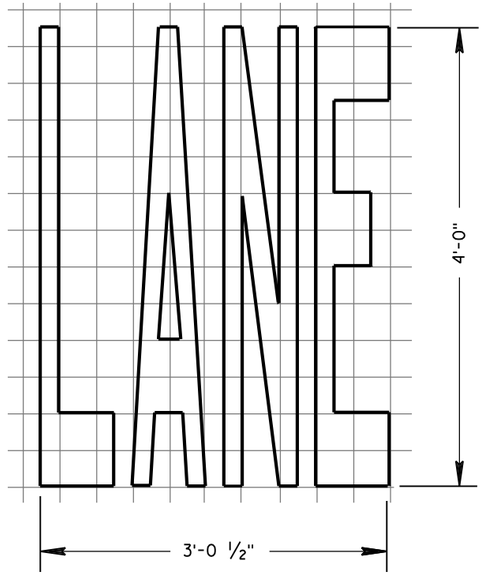
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S.D.D. 15 C 7-14c

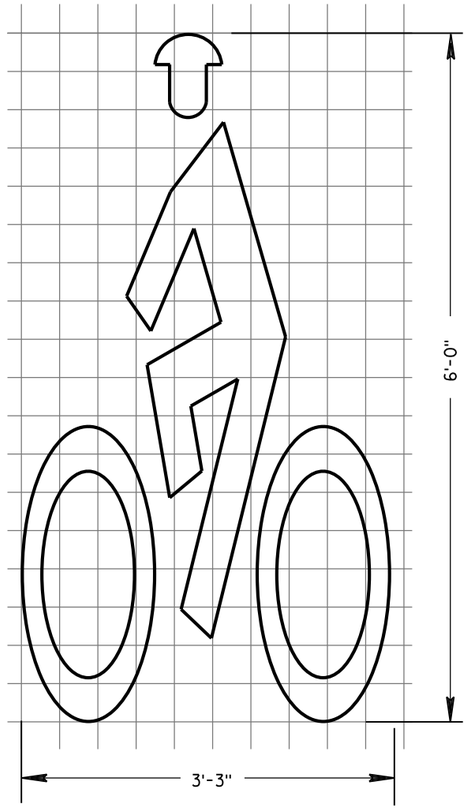
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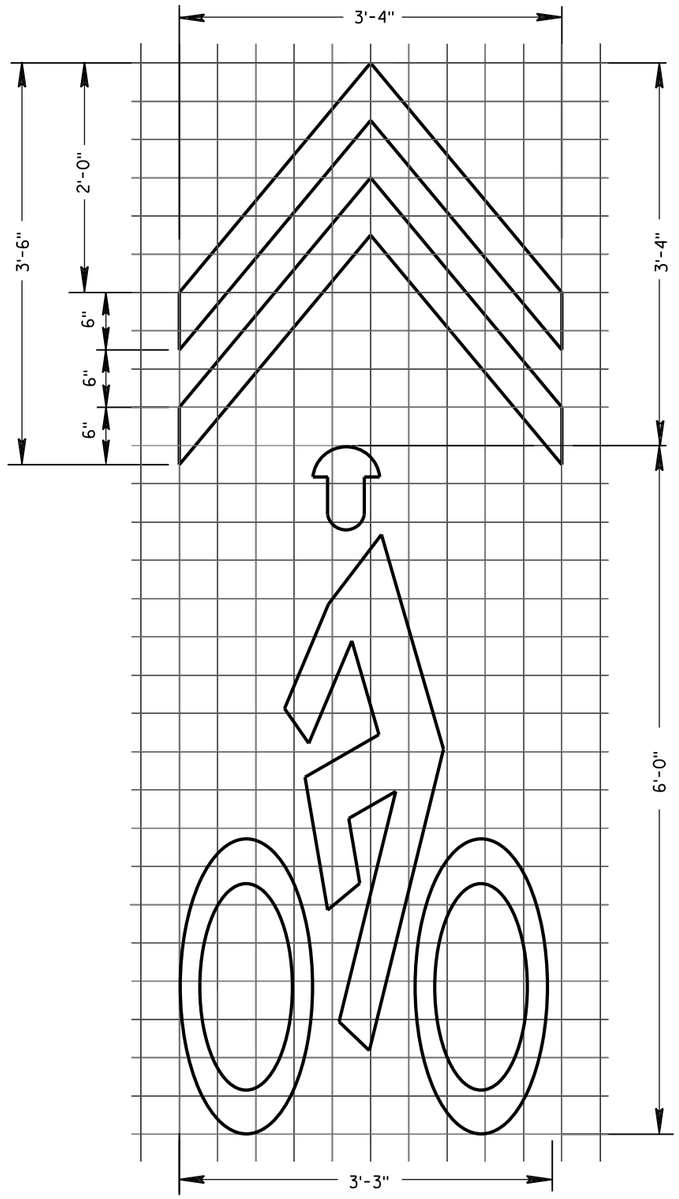




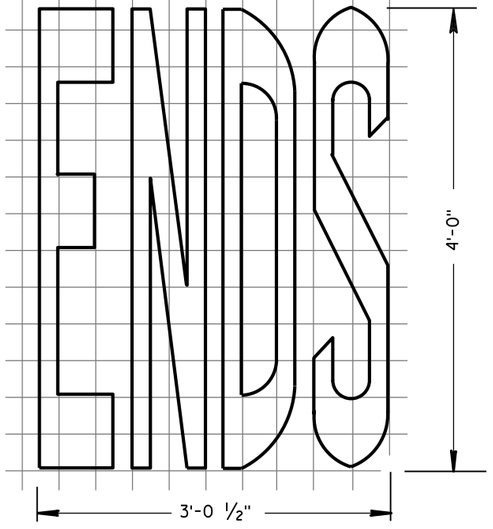
BIKE LANE WORDS



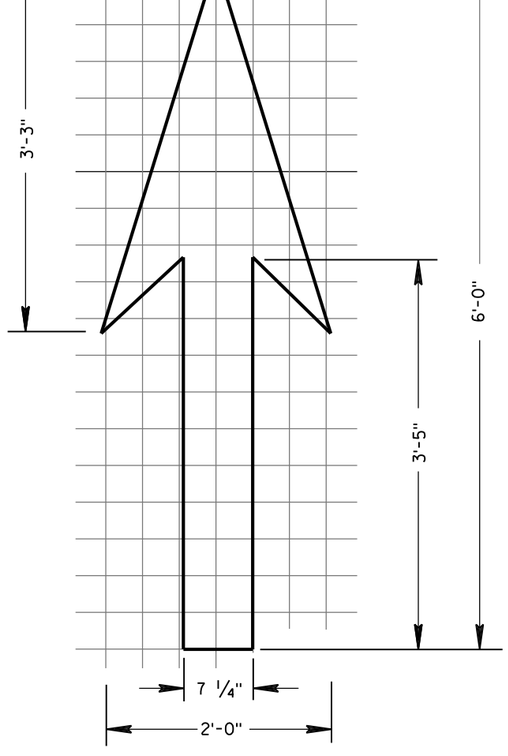
BIKE LANE SYMBOL



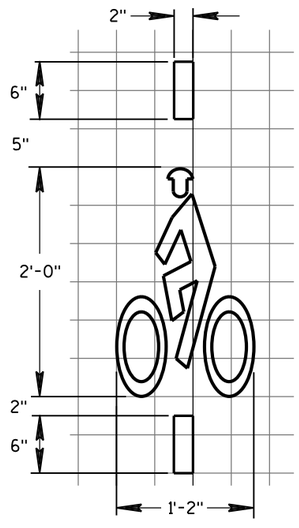
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

GENERAL NOTES

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

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

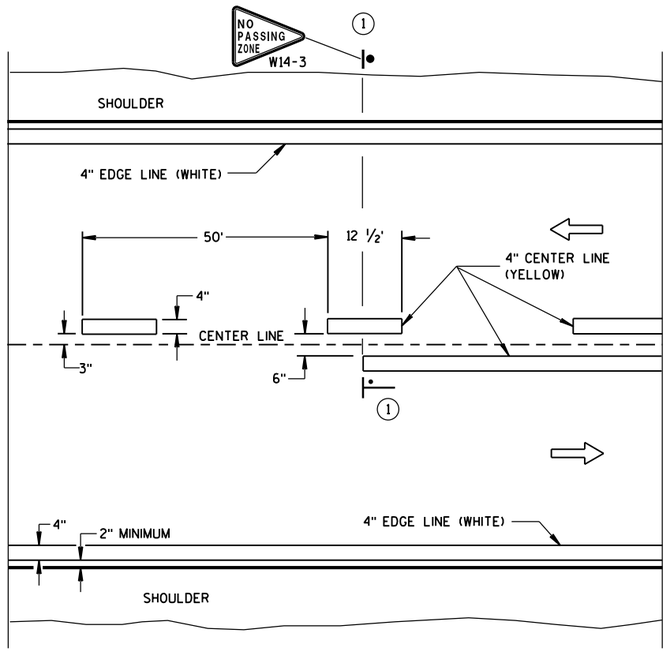
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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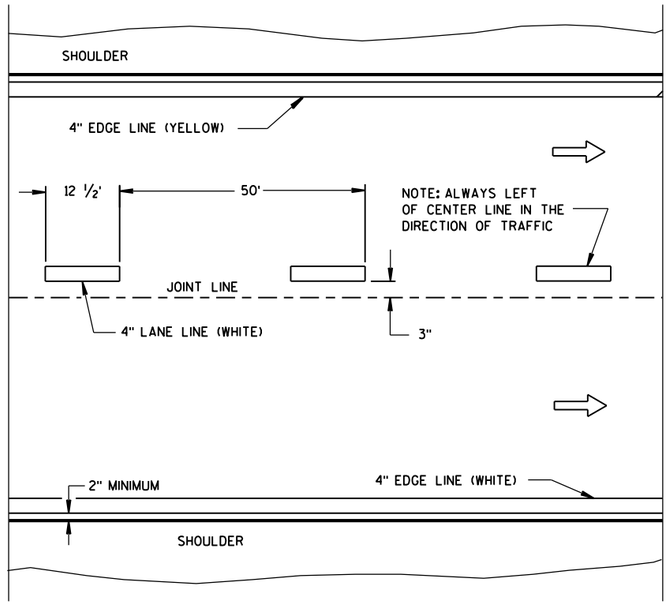
S.D.D. 15 C 7-14e

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S.D.D. 15 C 7-14e



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

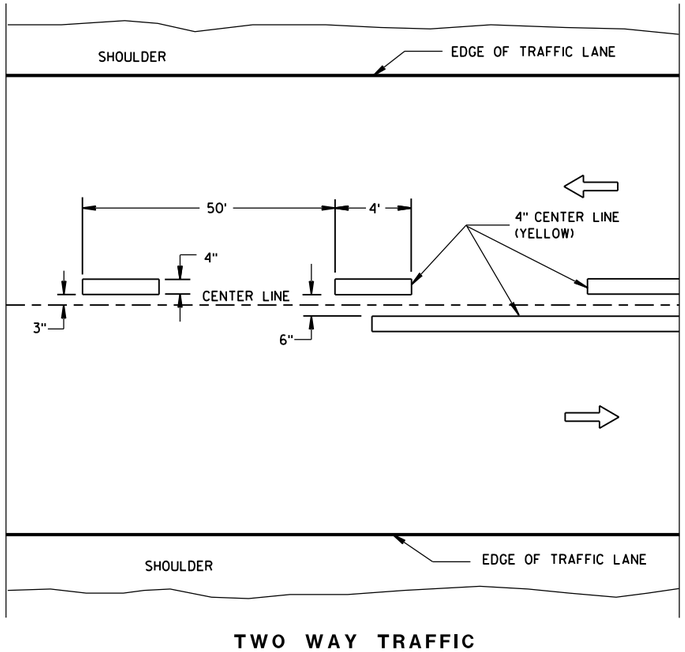
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

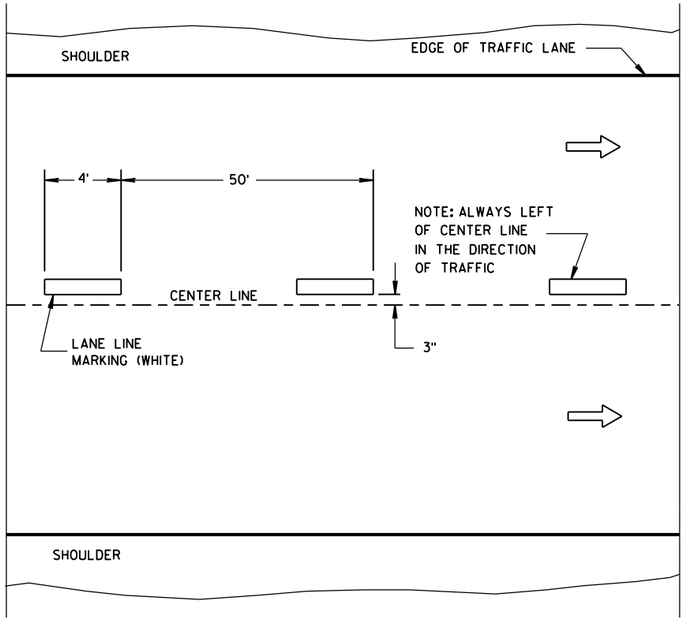
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



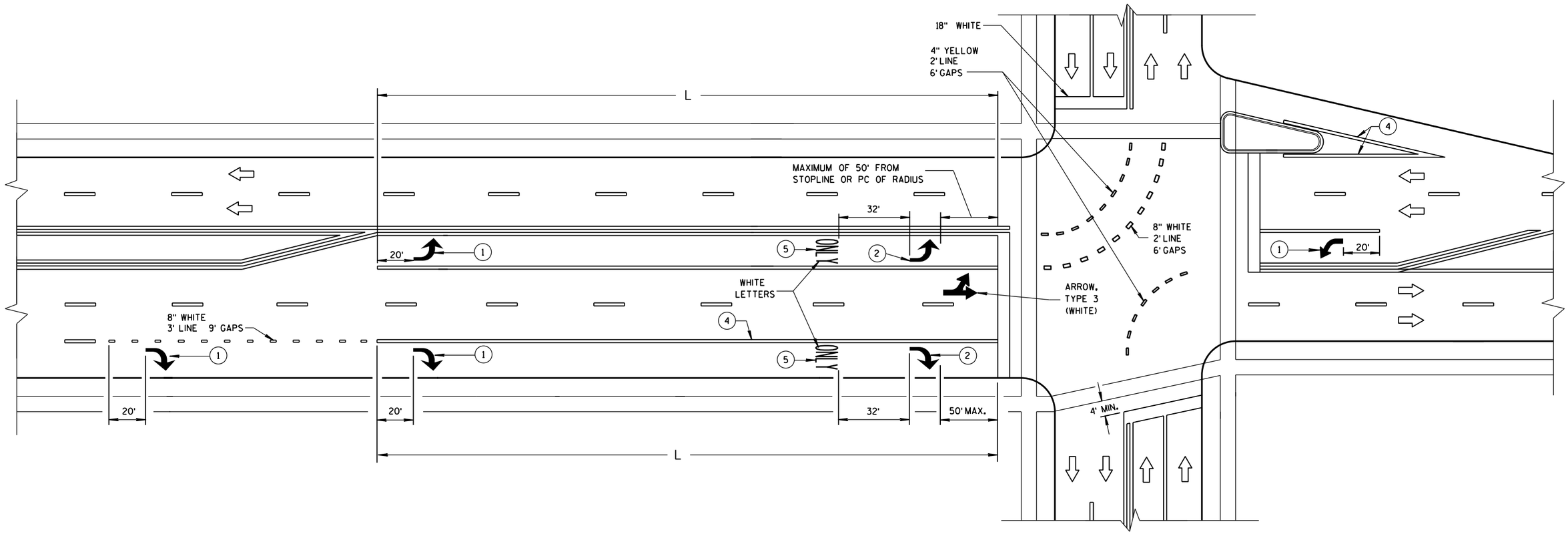
ONE WAY TRAFFIC

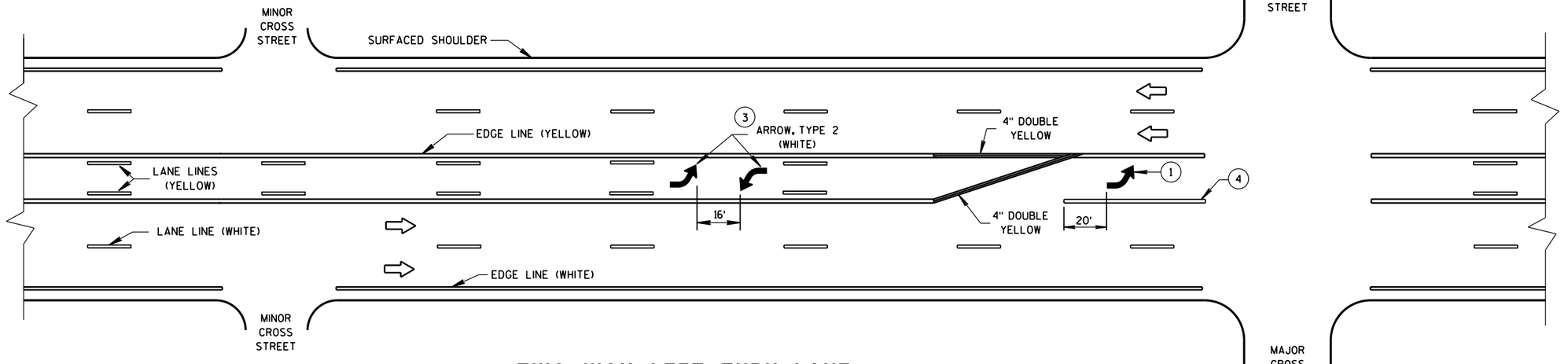
TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MAR ENGINEER
FHWA	

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S.D.D. 15 C 8-18a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

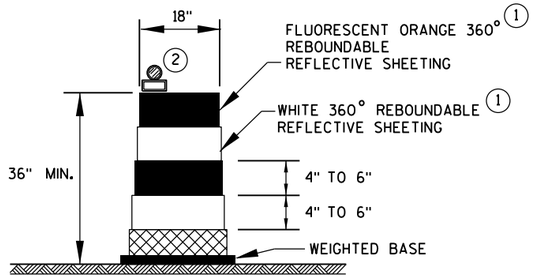
TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(TURN LANES)

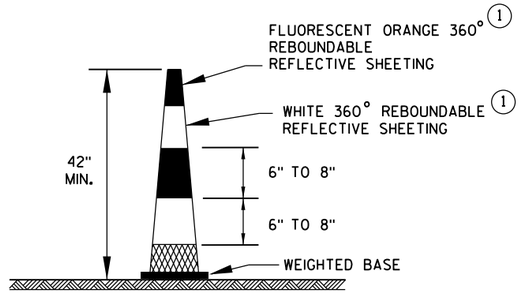
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-18b



DRUM

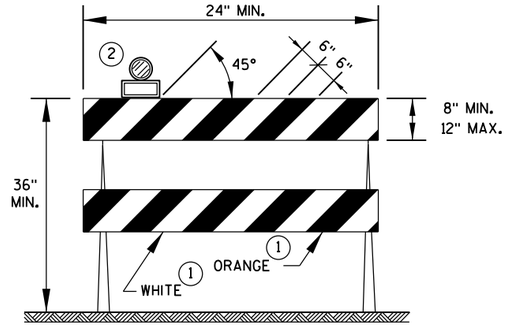


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

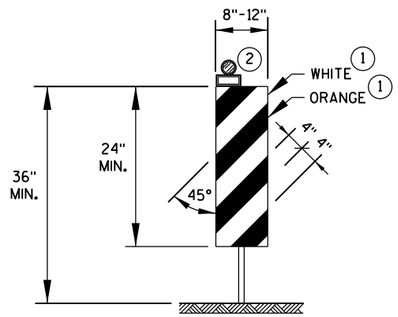
GENERAL NOTES

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.



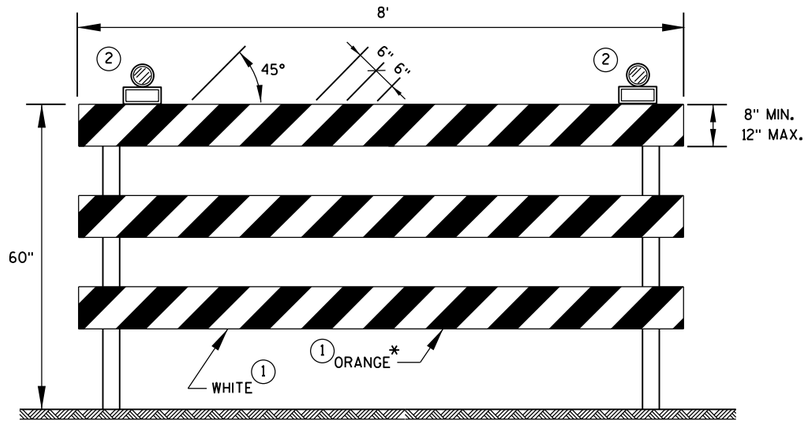
TYPE 2 BARRICADE

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



VERTICAL PANEL

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



TYPE 3 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	
June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENG
FHWA	

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S.D.D. 15 C 11-7b

LEGEND

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

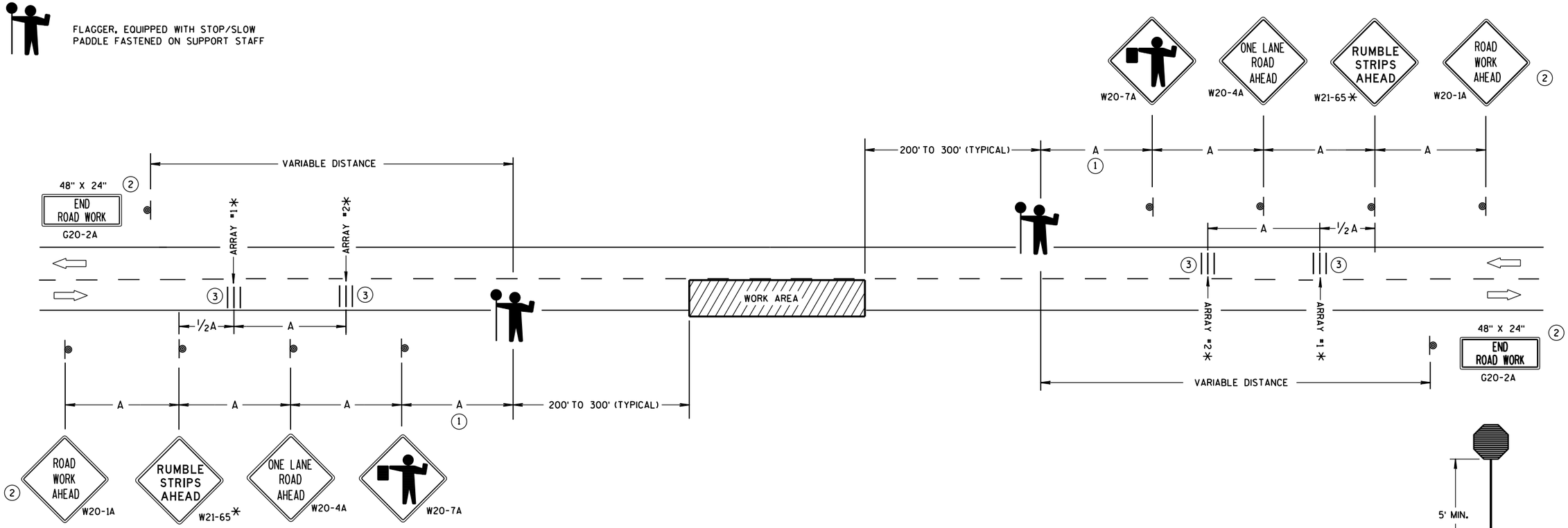
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

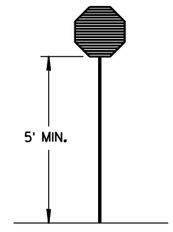


W03-4

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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

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

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

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

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

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

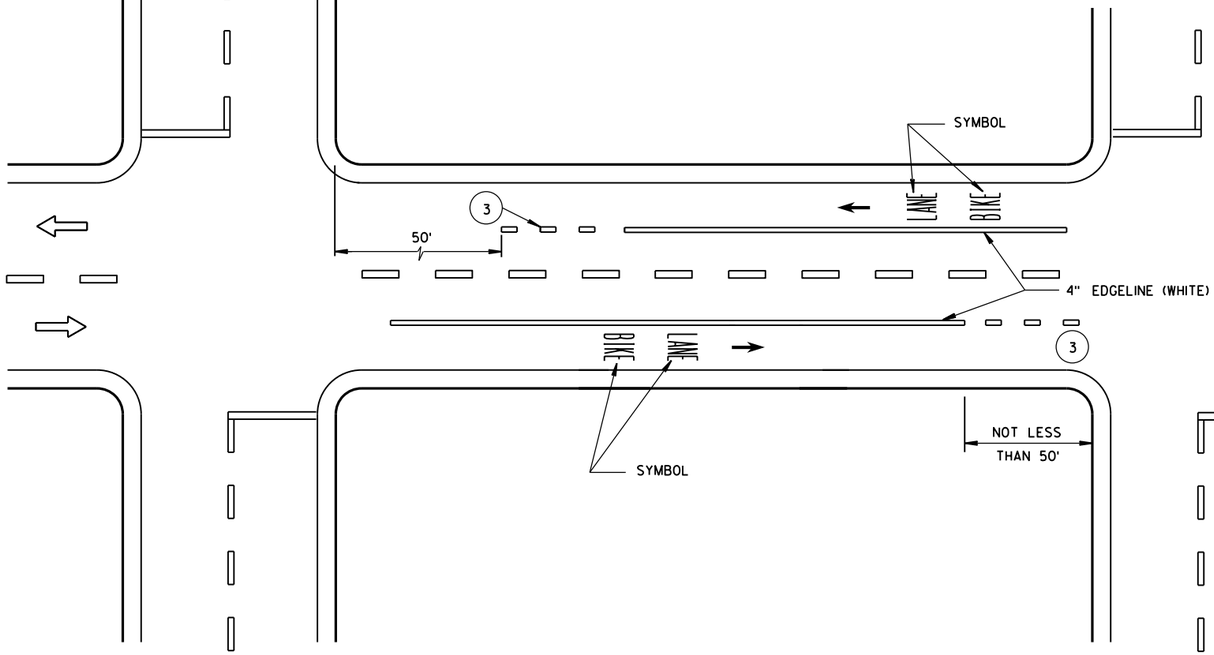
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

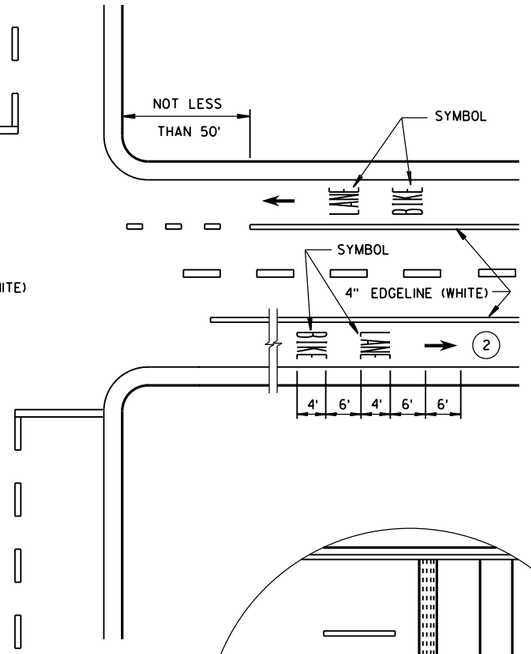
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heldtke
WORK ZONE ENG
FHWA

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S.D.D. 15 C 12-6



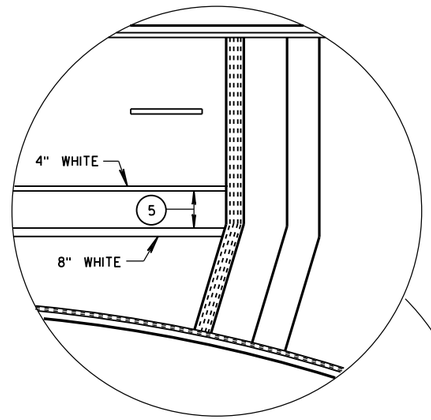


DESIGNATED BICYCLE LANE
NO PARKING

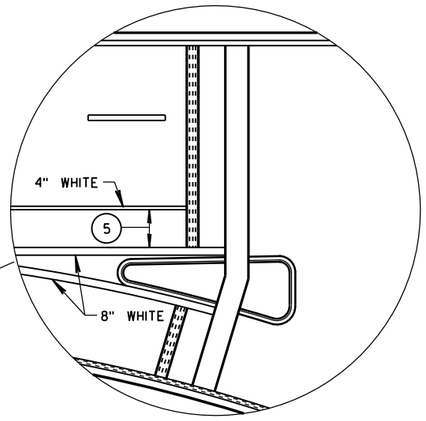
GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3'LINE, 9'GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMODATION FOR CONCRETE PAVEMENT IS 5 FEET WIDE. BIKE ACCOMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4 FEET. USE 5 FEET AT ≥45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FEET WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

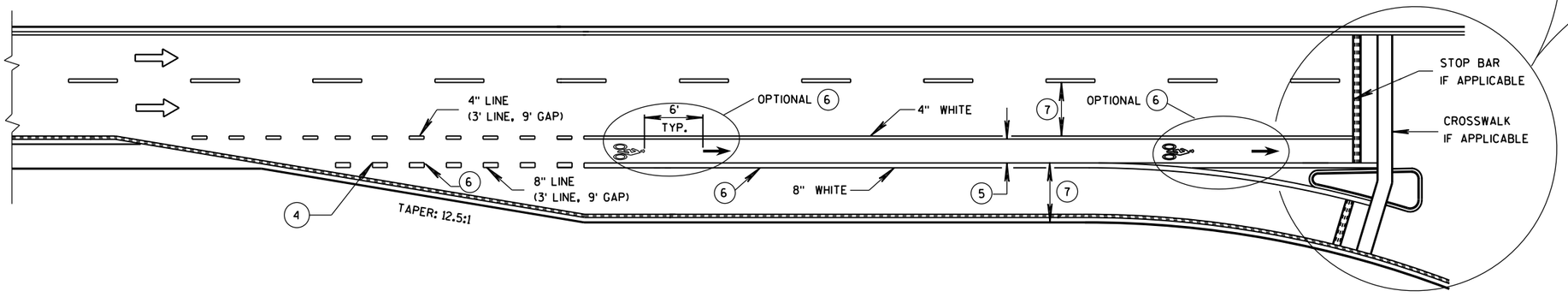
⇨ DIRECTION OF TRAVEL



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

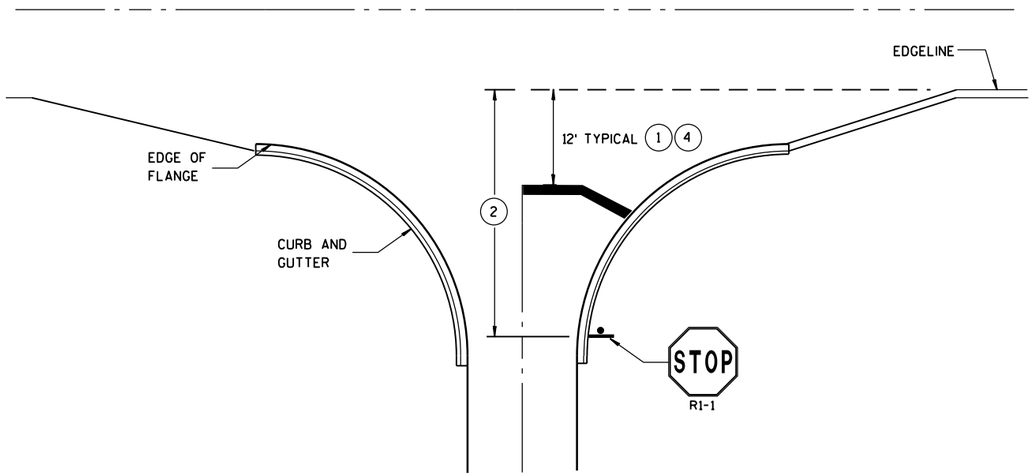
APPROVED
12-2016 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

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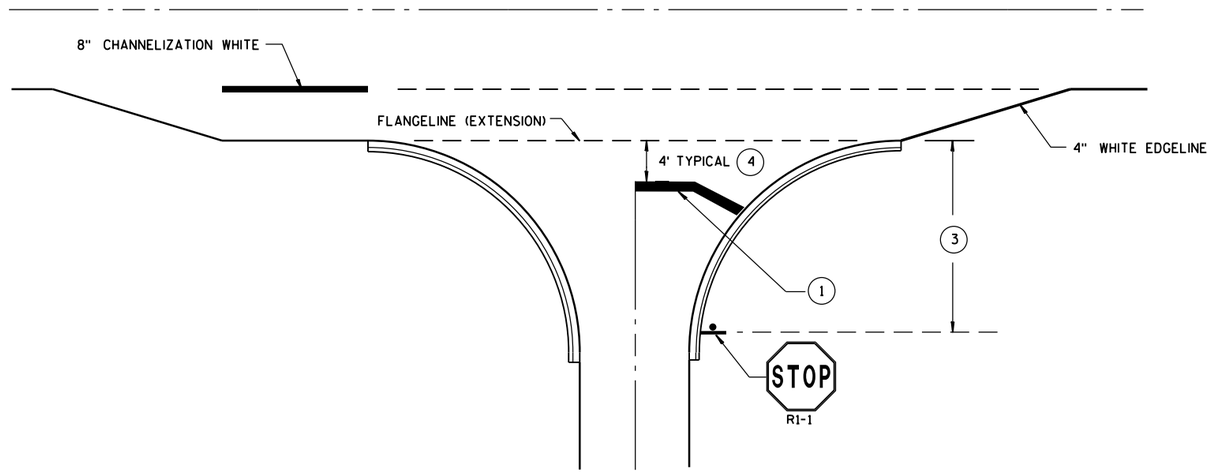
S.D.D. 15 C 29-5a

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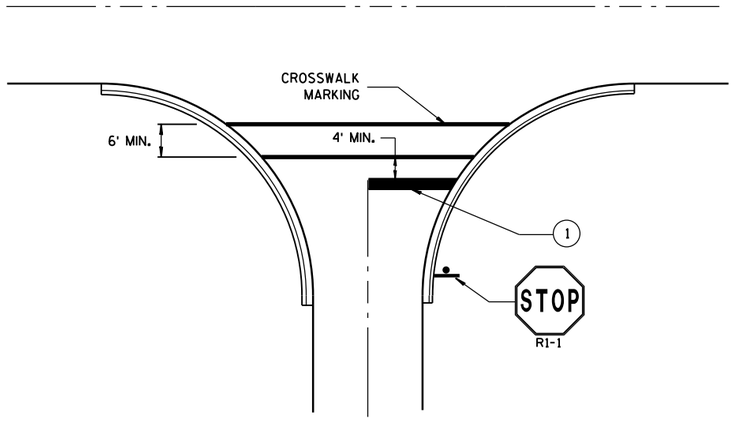
S.D.D. 15 C 29-5a



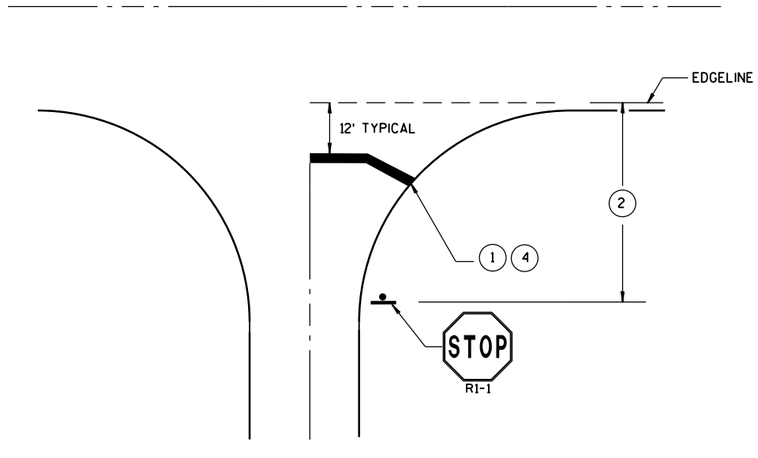
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

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 PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR 202 NEER

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S.D.D. 15 C 33-3

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

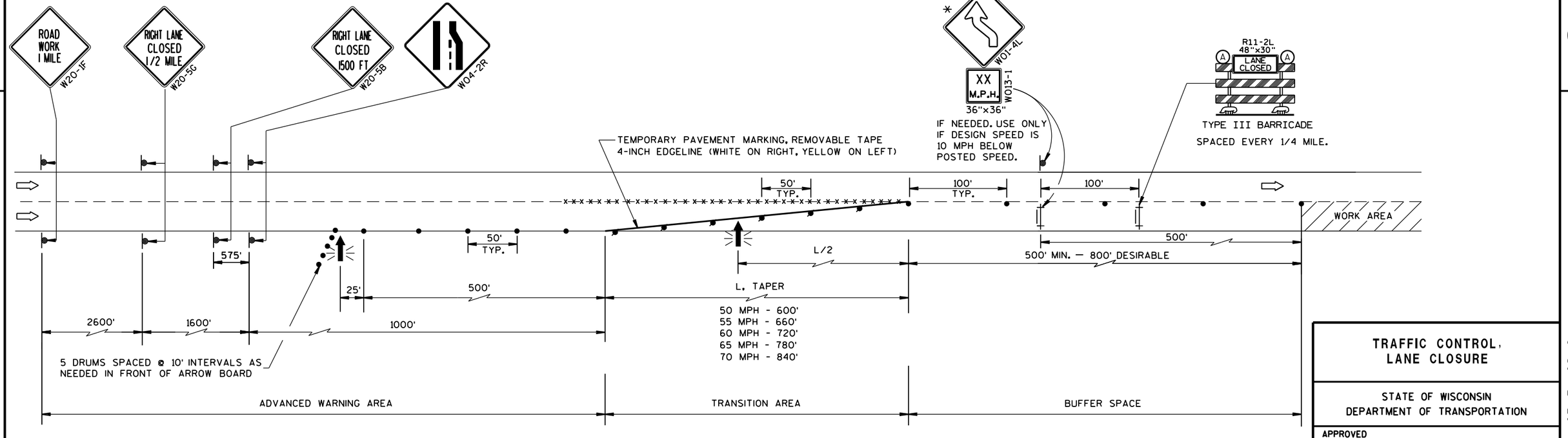
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



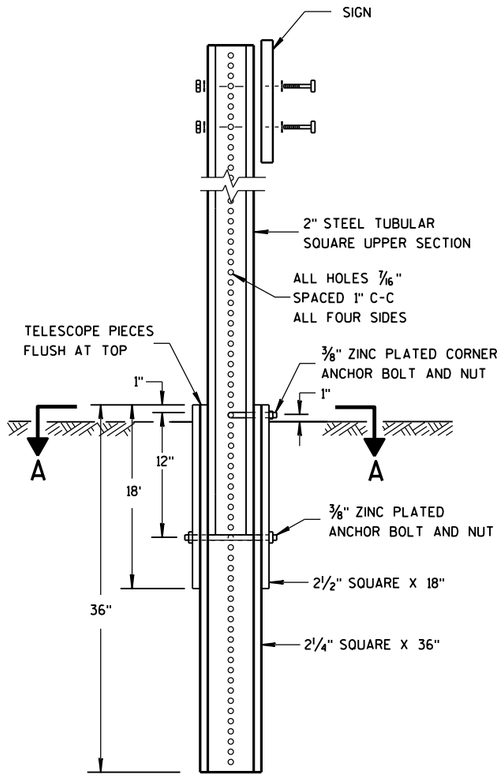
TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

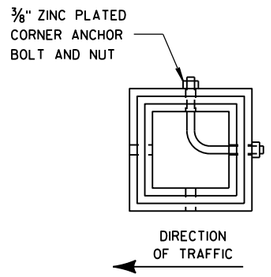
APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

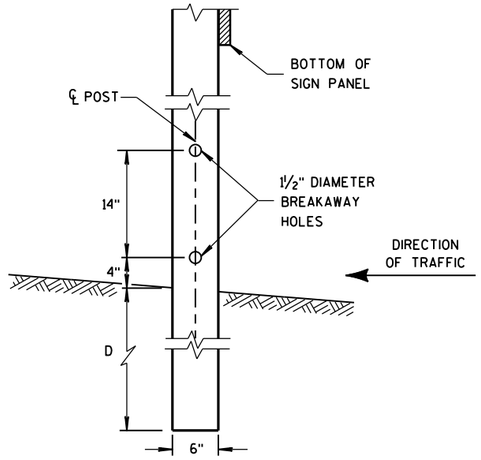
S.D.D. 15 D 12-6a



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



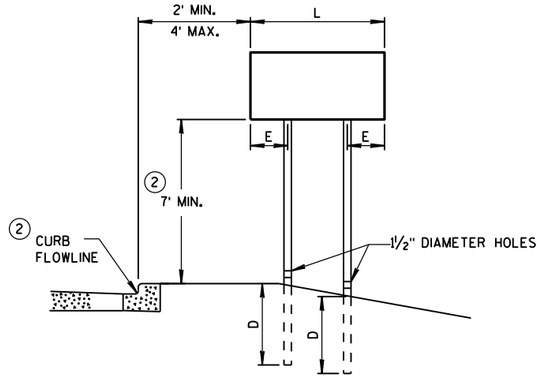
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

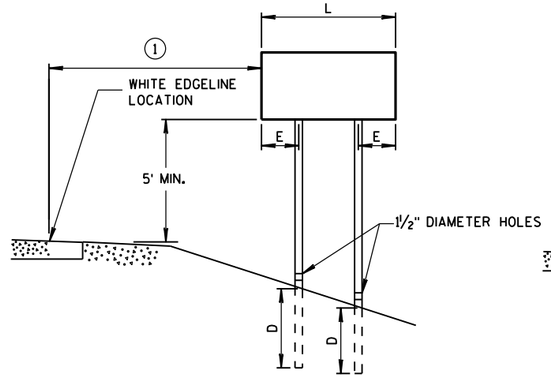
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

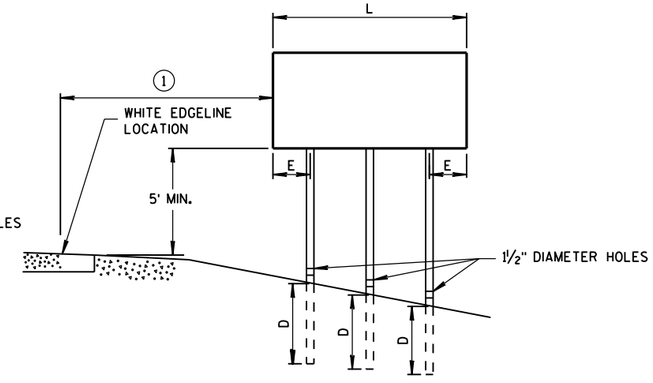
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

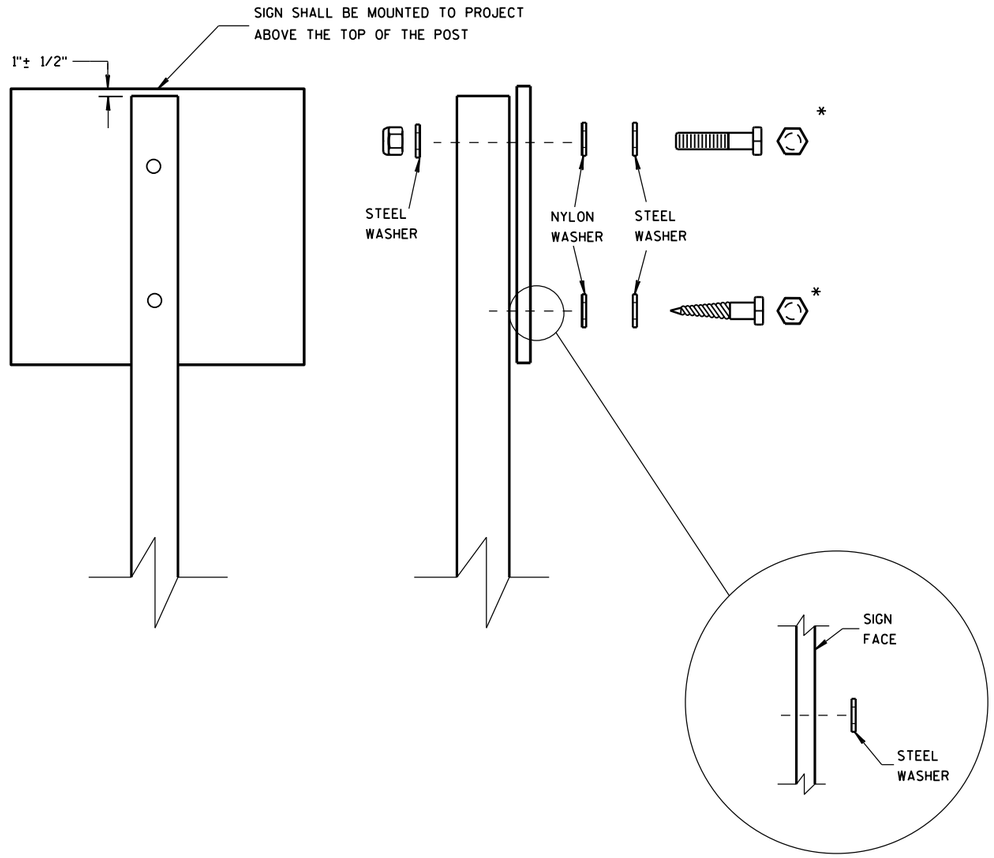
POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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 FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

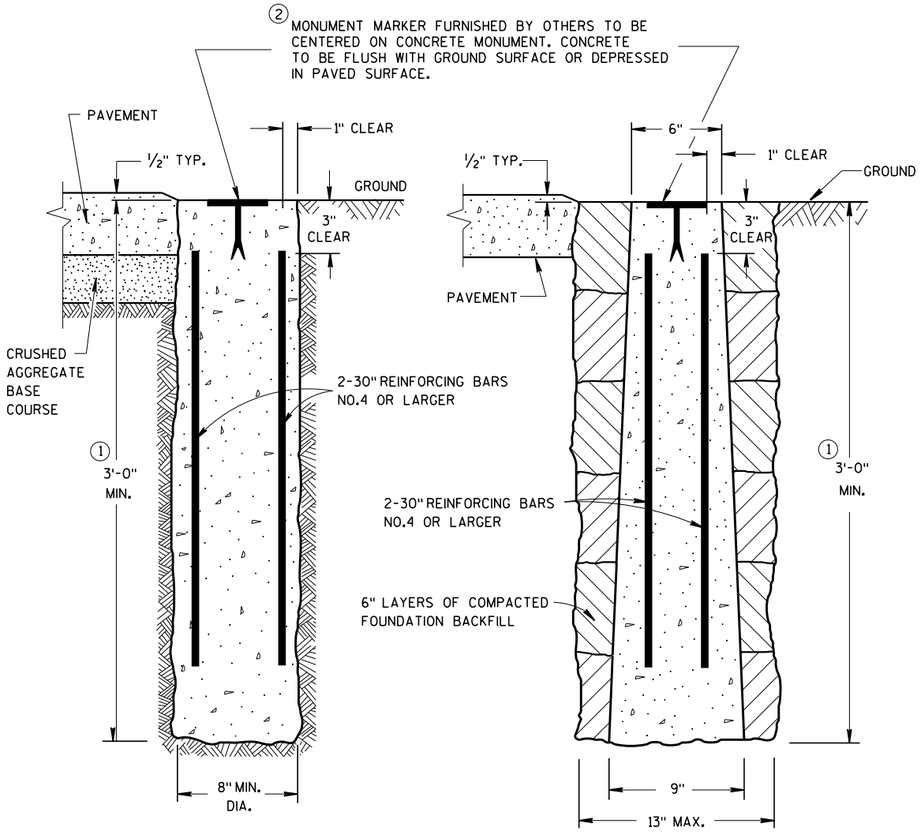
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

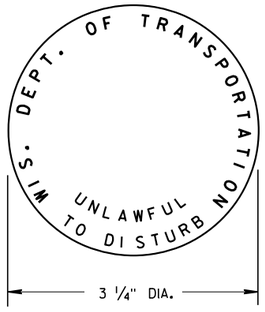


CAST-IN-PLACE

PRECAST

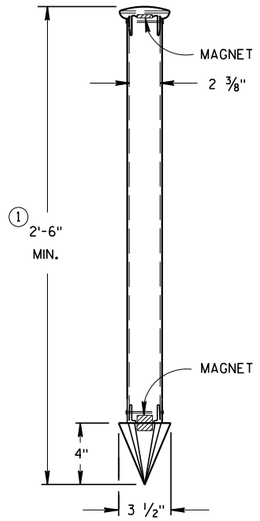
CONCRETE MONUMENTS

TYPE A



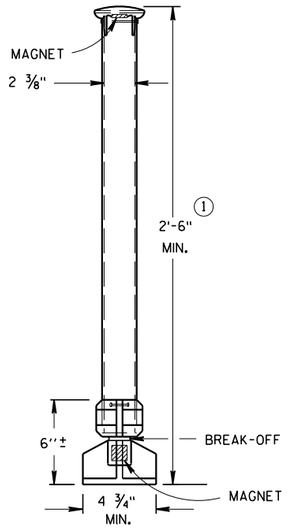
② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C", & "D"



TYPE C

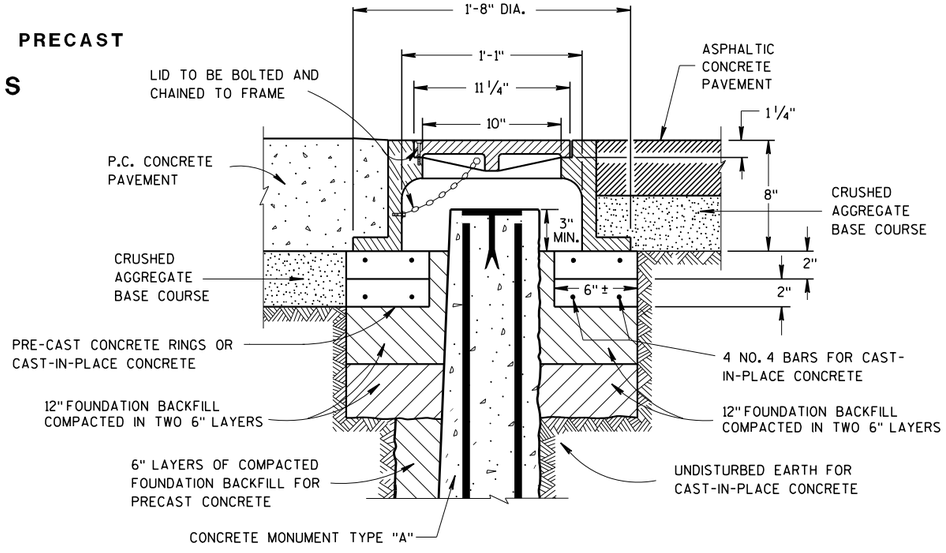
DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

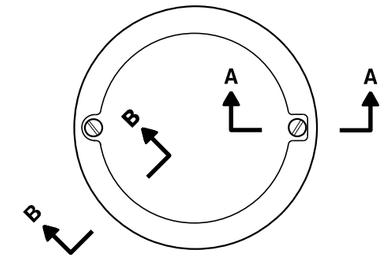
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

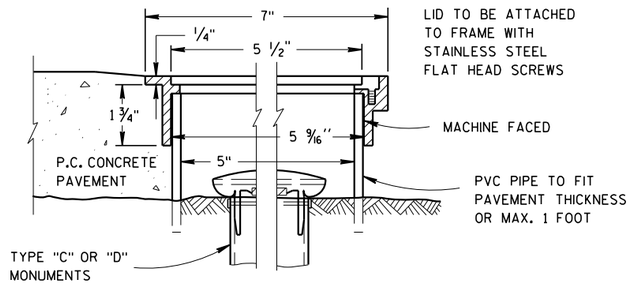
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

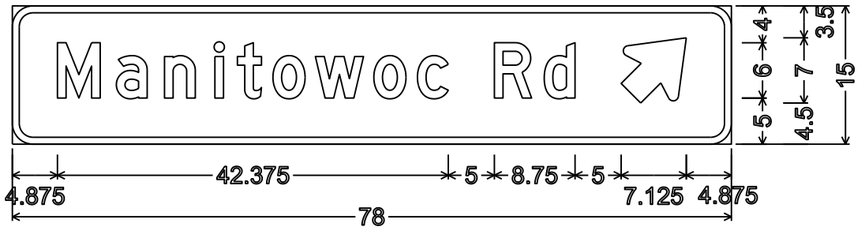
APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

6

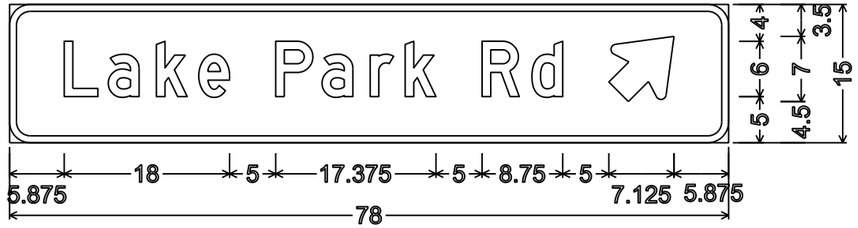
S.D.D. 16 A 1-7

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - D



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border

7

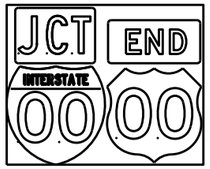
7

PROJECT NO: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	PERMANENT SIGNING	SHEET NO: 207	E

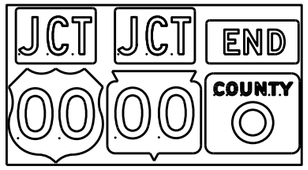
TYPICAL ASSEMBLIES



J1-1



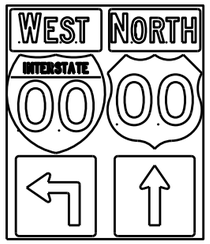
J1-2



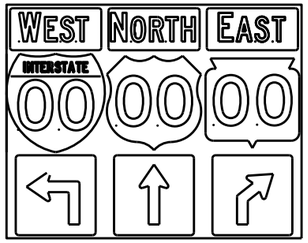
J1-3



J2-1



J2-2

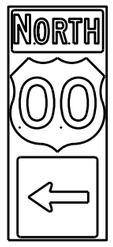


J2-3

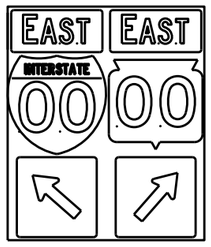


JV

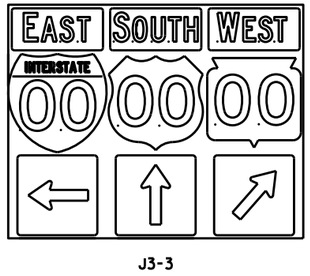
(Typical Vertical J-Assembly
See Note 10 and 11)



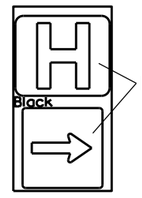
J3-1



J3-2



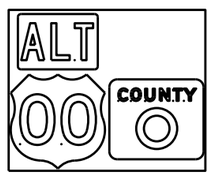
J3-3



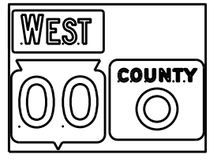
JH-1



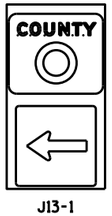
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

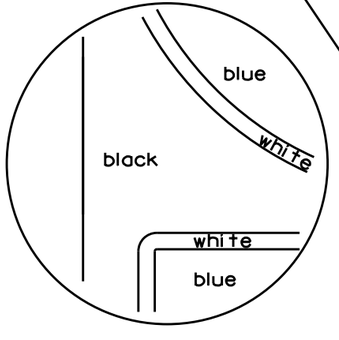


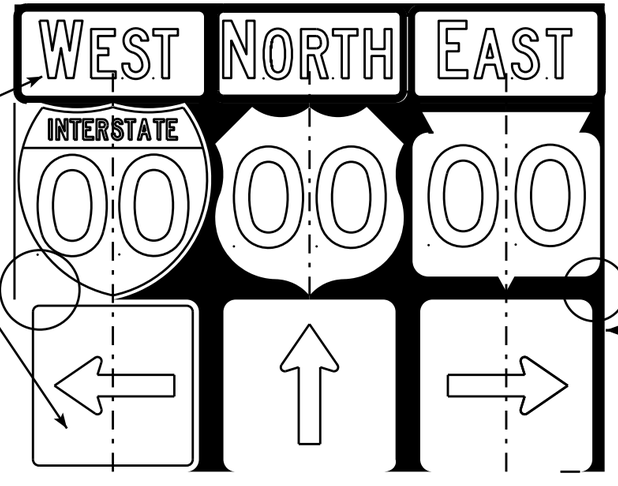
J23-1

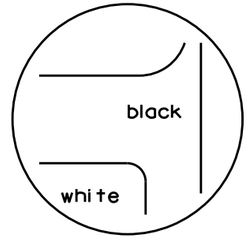


J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. 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.
8. 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.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (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.
10. All Vertical J Assemblies are given a Sign Code of JV
11. 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

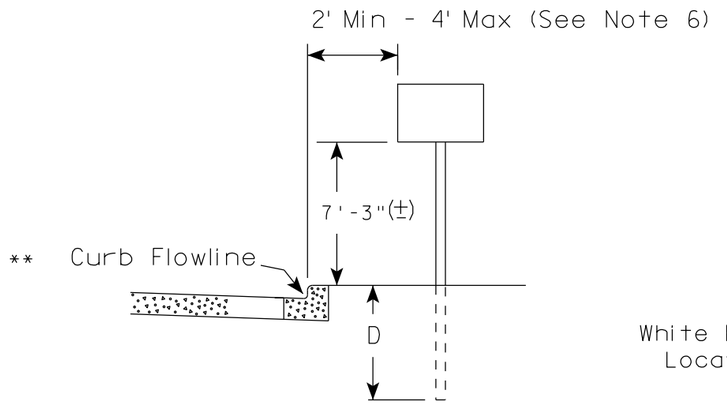
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

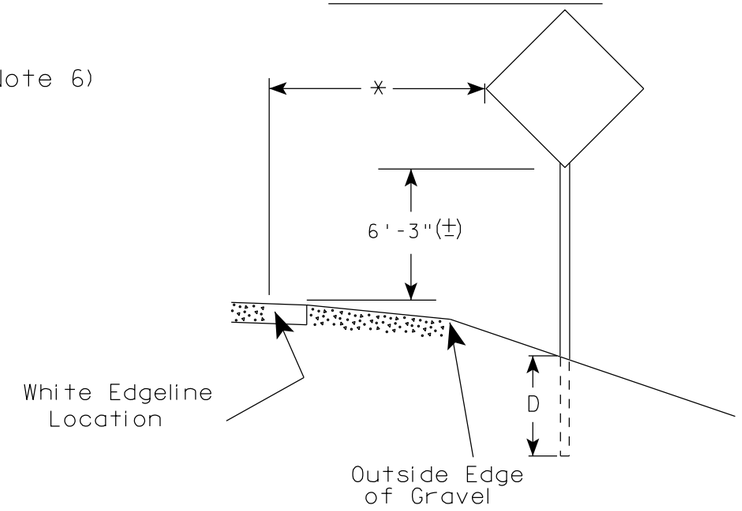
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

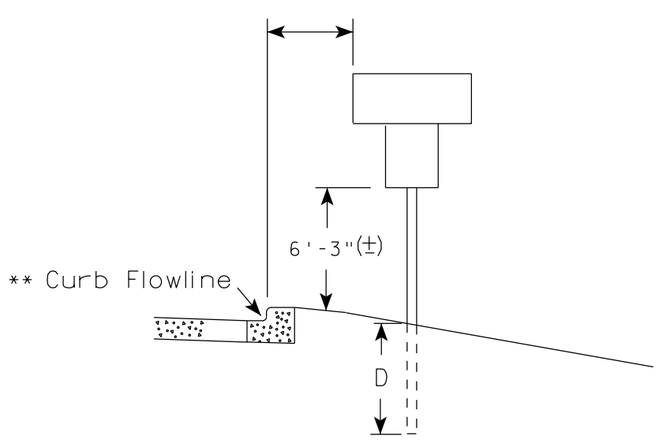
WISDOT/CADDS SHEET 42

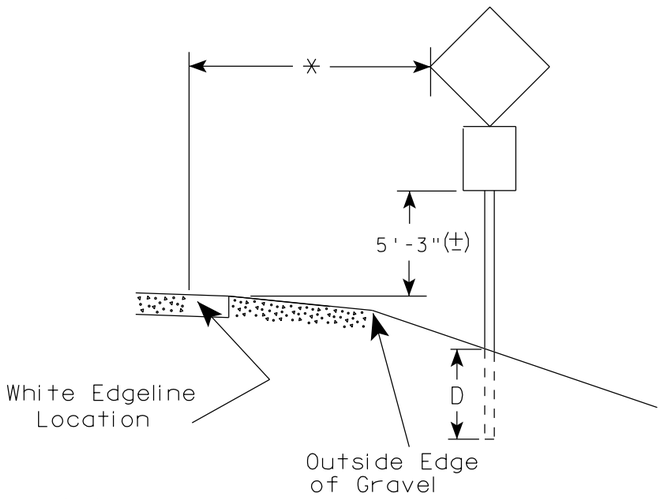
URBAN AREA



RURAL AREA (See Note 2)







** 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.

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 barrier wall, see A4-10 sign plate.
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 J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. 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), 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" (±).

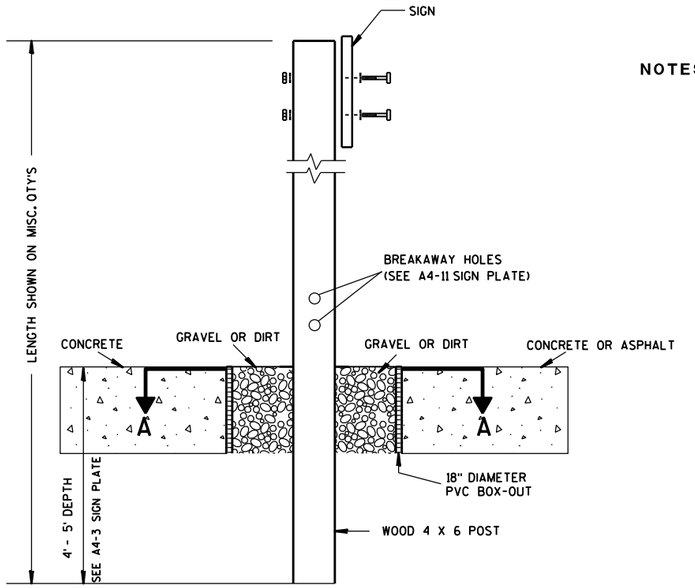
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

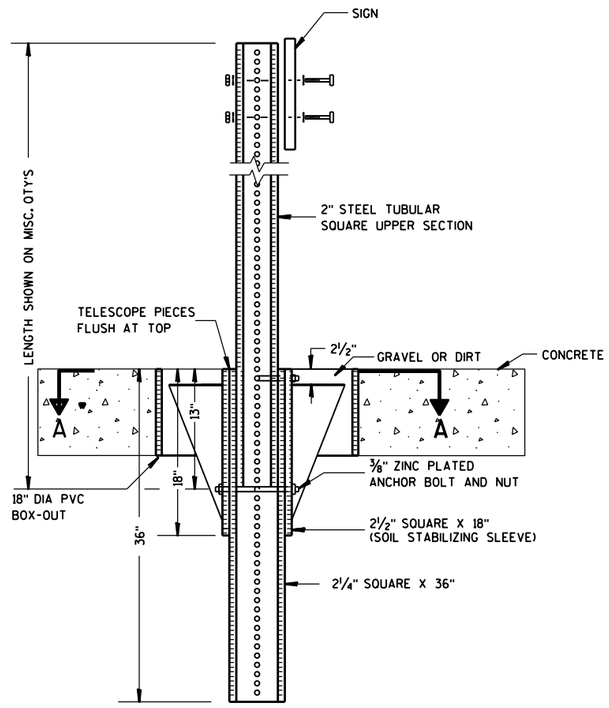
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

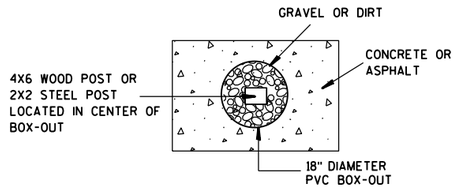
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

WISCONSIN DEPT OF TRANSPORTATION

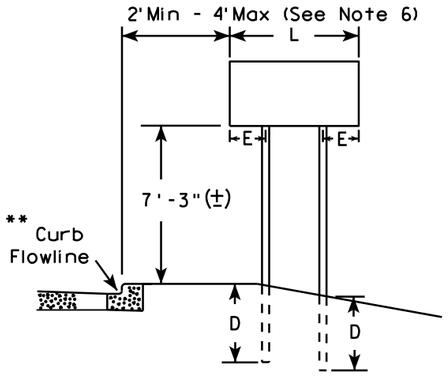
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

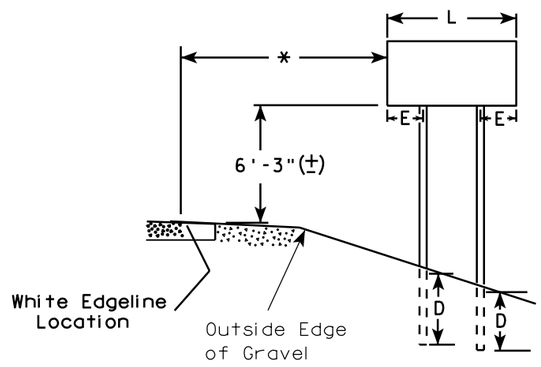
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

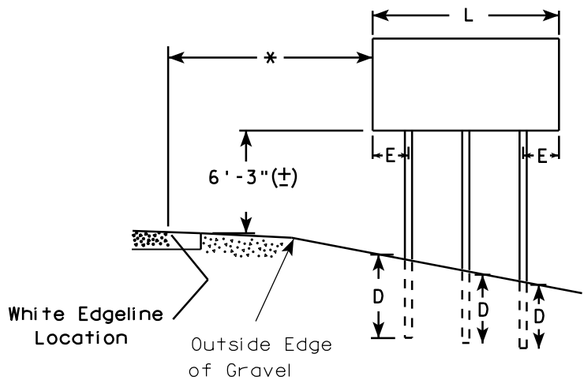
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

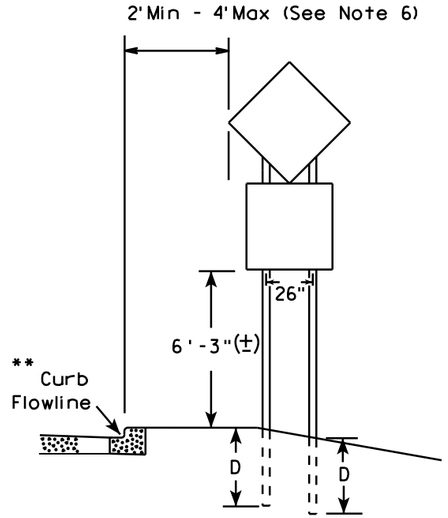
URBAN AREA



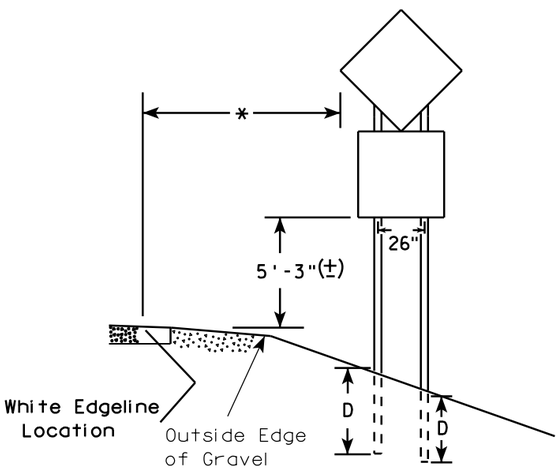
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
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" (±).

* 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 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

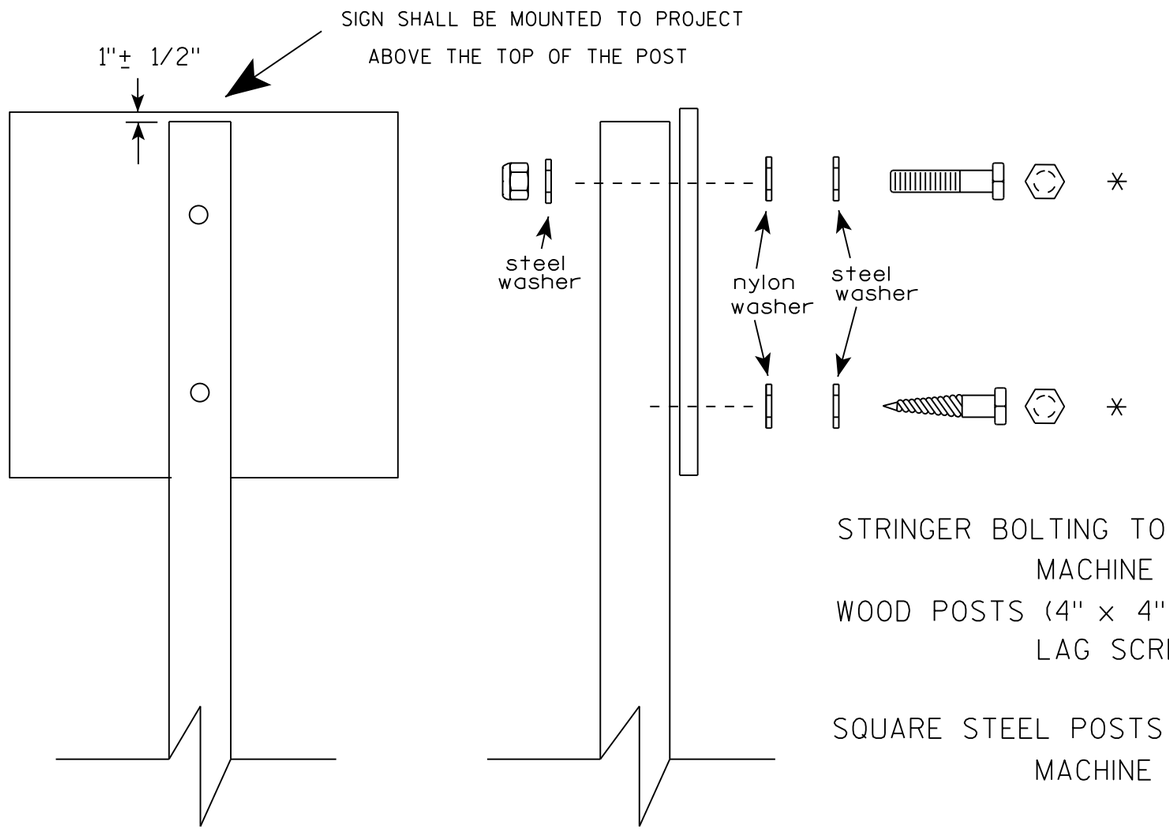
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14
211

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

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

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

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

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

WOOD POSTS (4" x 4" or 4" x 6")

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

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

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

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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

WASHERS (ALL POSTS) -

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

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

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

ATTACHMENT OF SIGNS TO POSTS

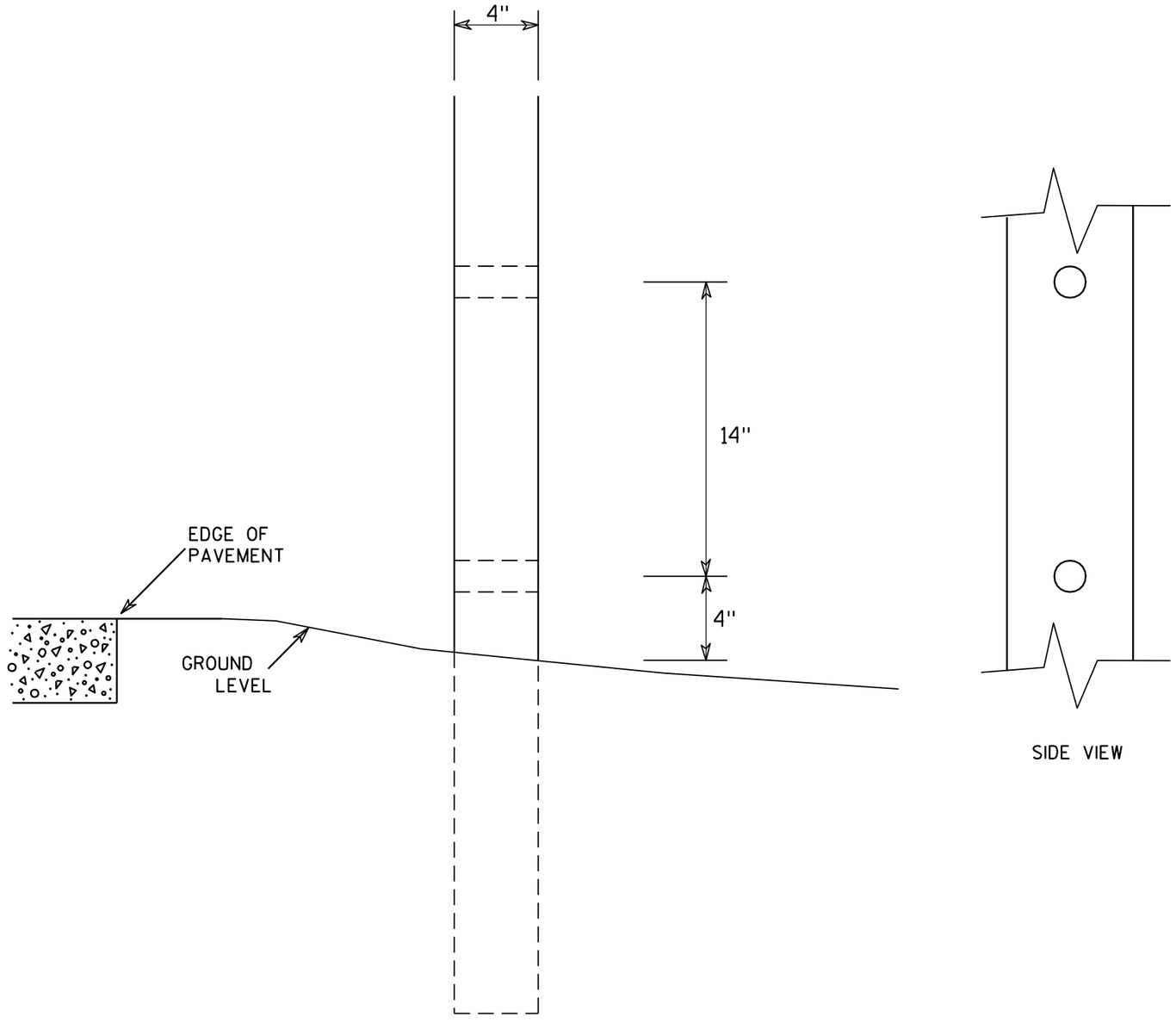
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$



SIDE VIEW

GENERAL NOTES

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

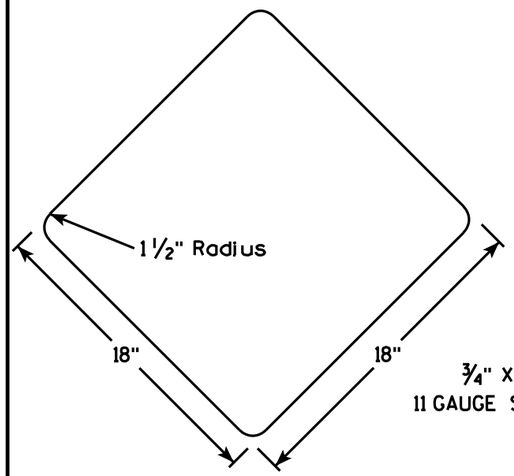
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

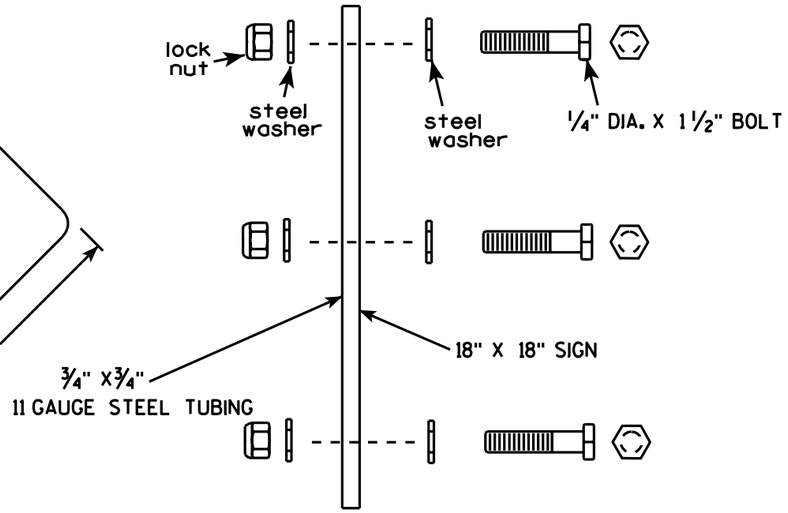
APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 213	E



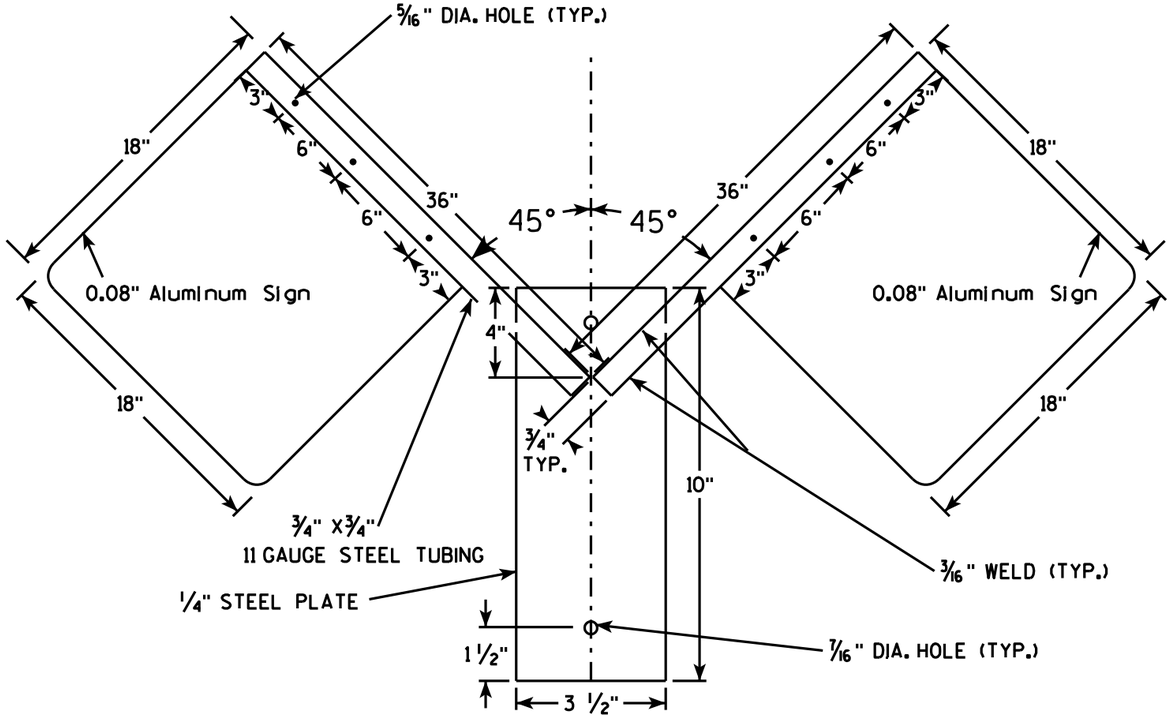
SIGN DETAIL



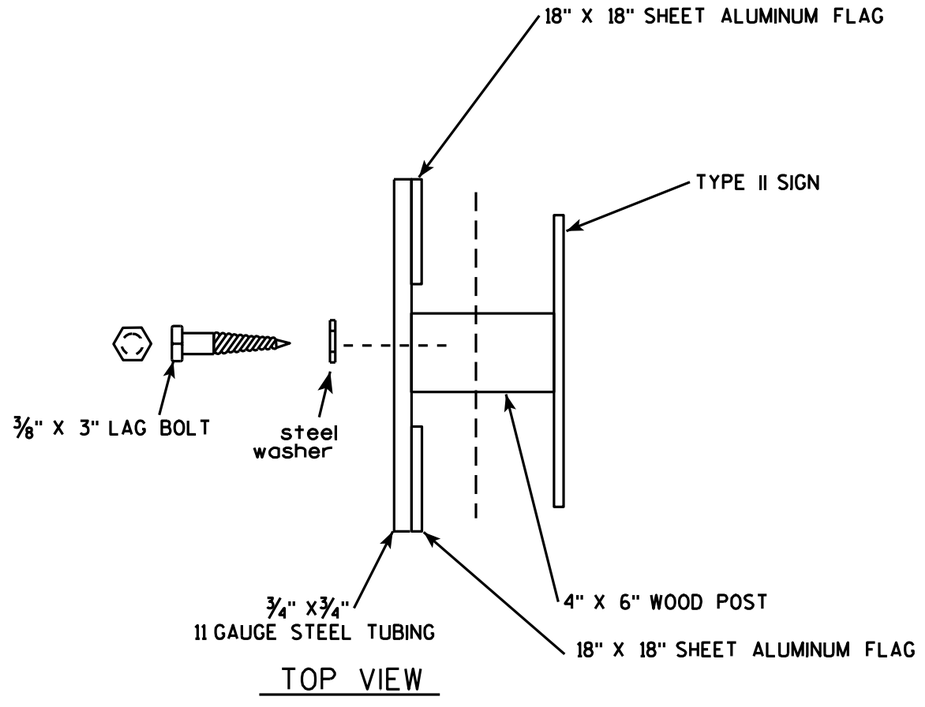
FLAG BOLTING PROCEDURE

GENERAL NOTES

1. ALL MATERIAL TO BE APPROVED BY ENGINEER BEFORE INSTALLATION.
2. SEE SIGN PLATE A4-8 FOR HARDWARE REQUIREMENTS.
3. SIGN IS TYPE II, TYPE F REFLECTIVE- REFERENCE WisDOT STANDARD. SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION LATEST EDITION.
4. SIGN COLOR - ORANGE
5. SIGN CORNERS SHALL BE ROUNDED
6. BRACKET SHALL BE ENTIRELY PRIMED AND PAINTED WITH TWO COATS OF A BLACK POWDER COATED ENAMEL PAINT.



BACK VIEW



TOP VIEW

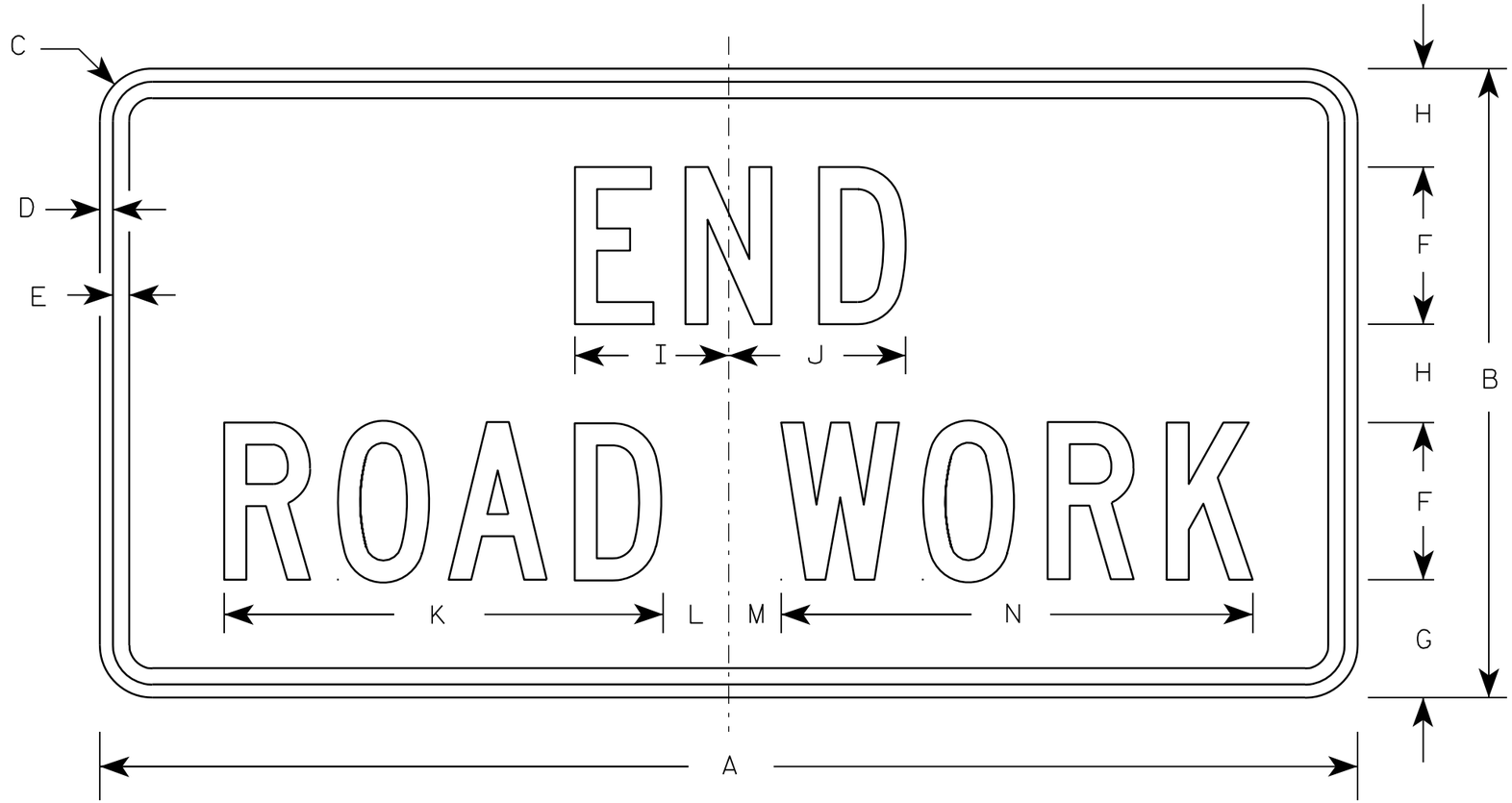
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGN FLAGS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/13 PLATE NO. A4-15.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 214	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message 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.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

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 m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

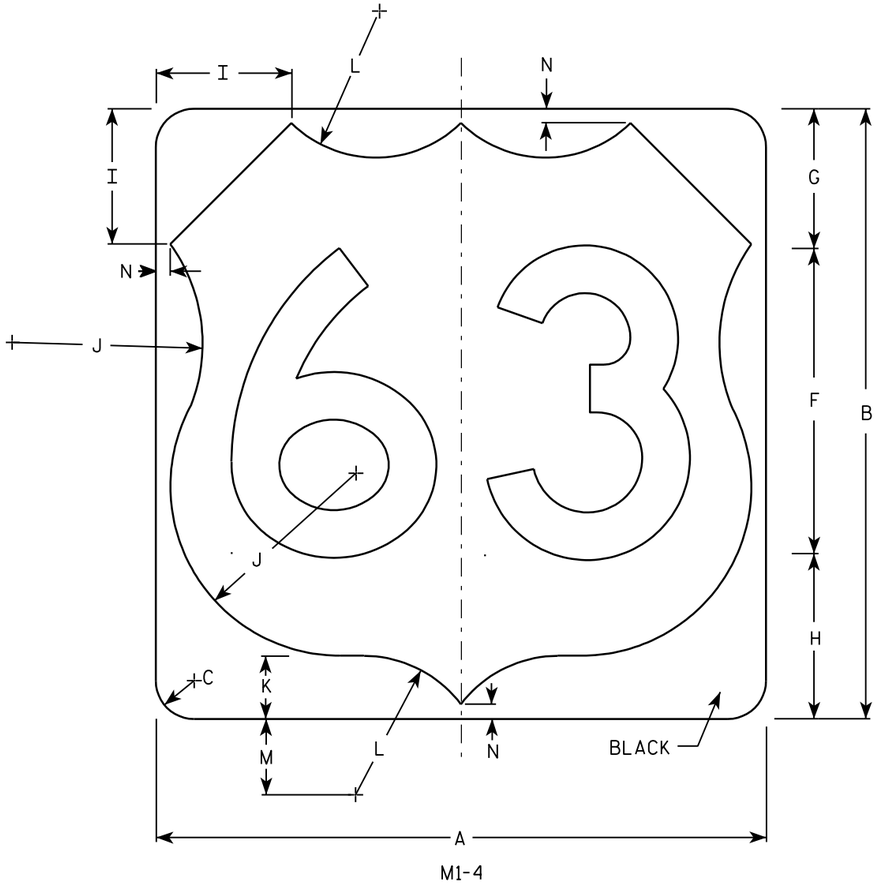
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

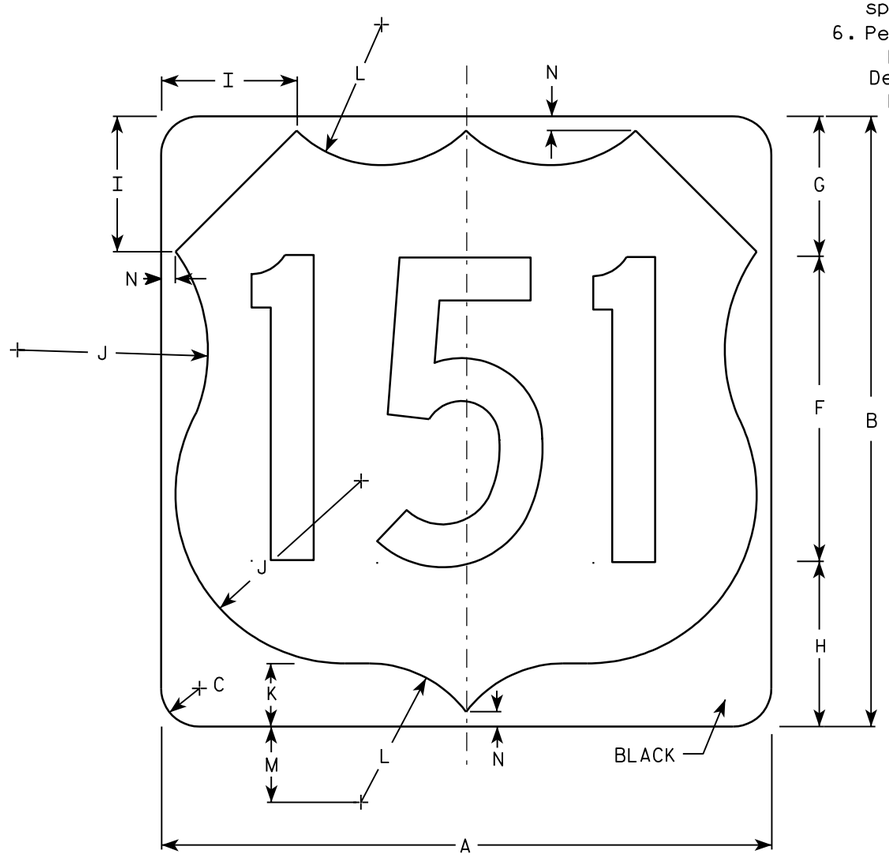
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   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. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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 m2
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	.36
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	.81
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	.81
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	.81

USH MARKER
M1-4 FOR ASSEMBLIES

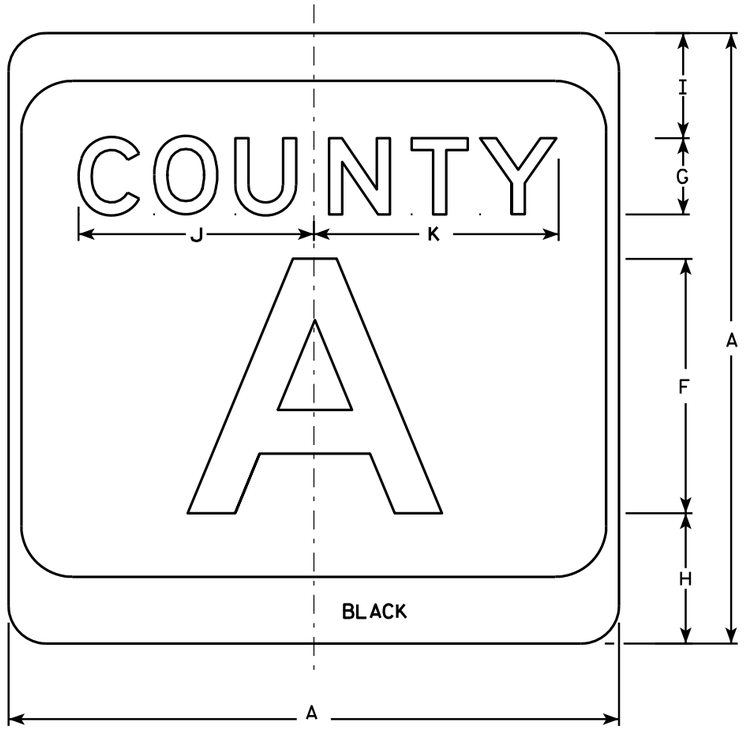
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

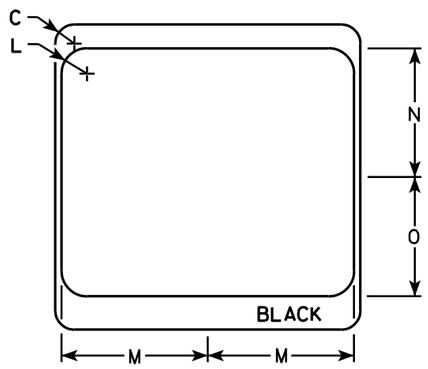
DATE 08/25/05 PLATE NO. M1-4.9

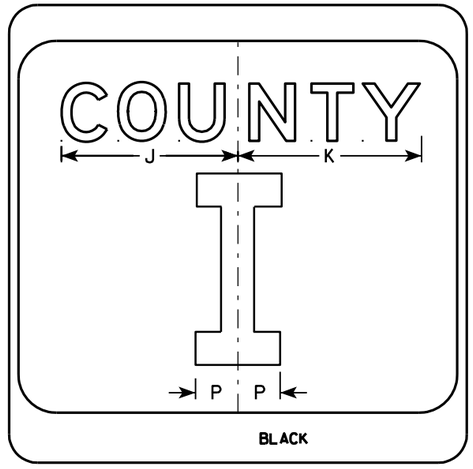
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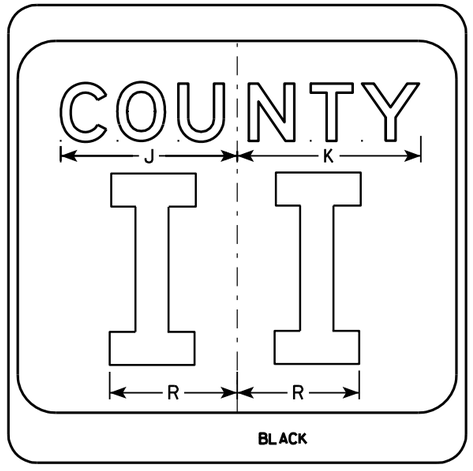
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 216 | E



M1-5A







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

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

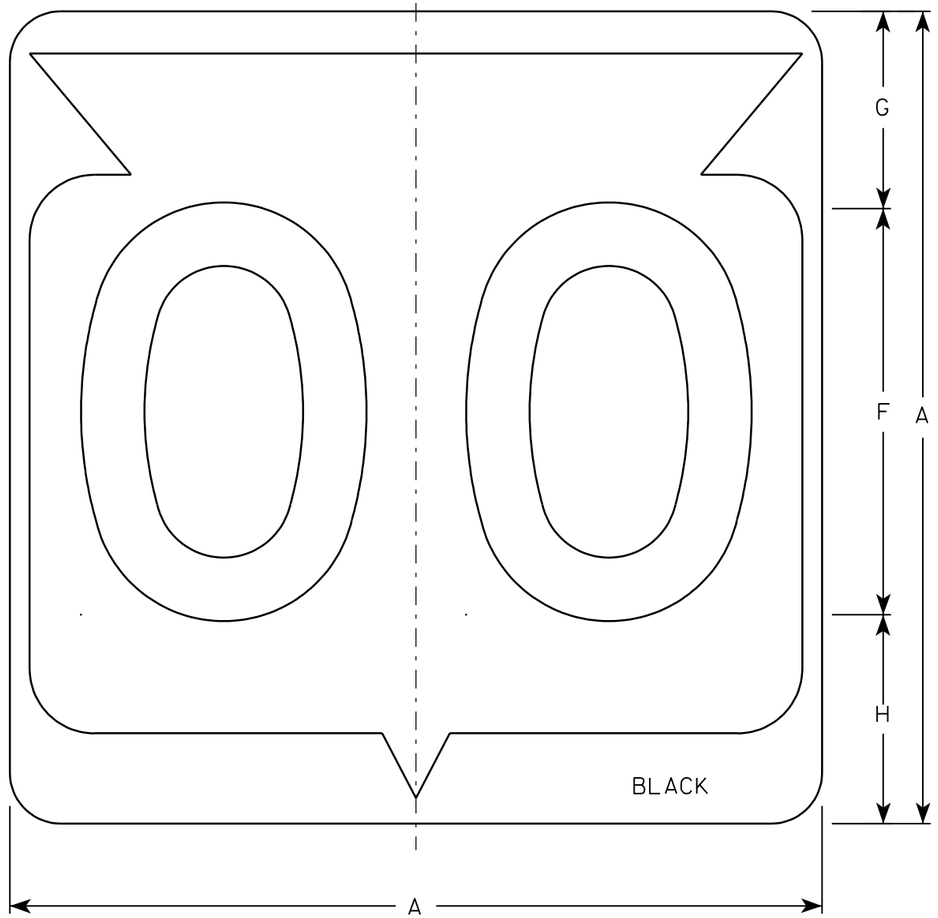
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

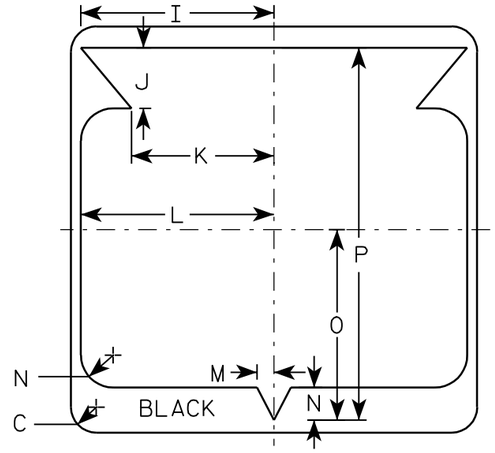
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 217 | E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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 m2
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	.36
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	.81
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	.81
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	.81

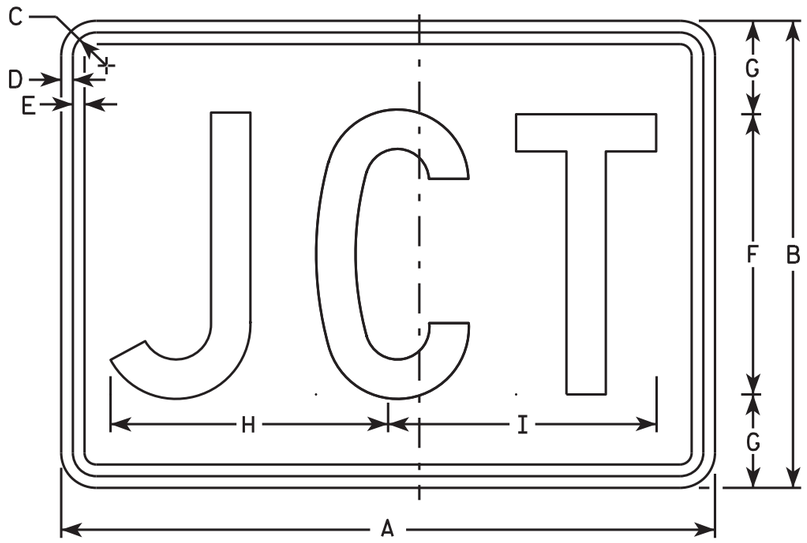
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

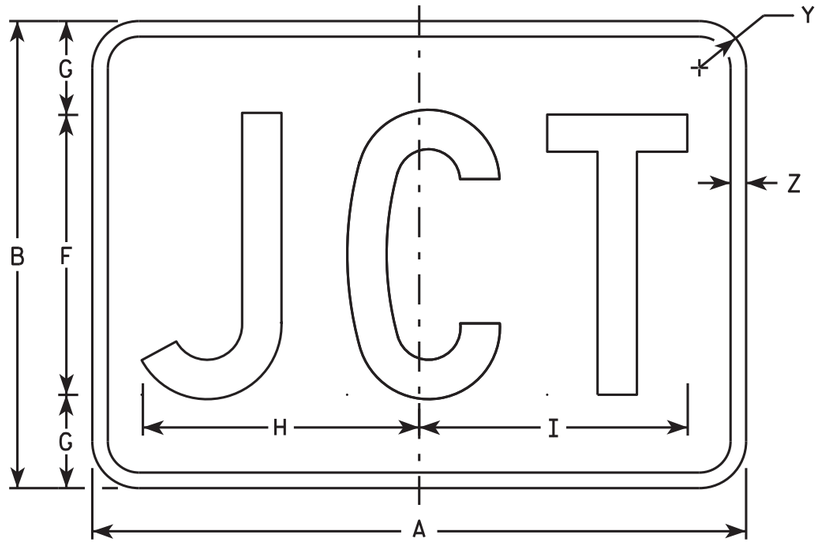
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 218	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message 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.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

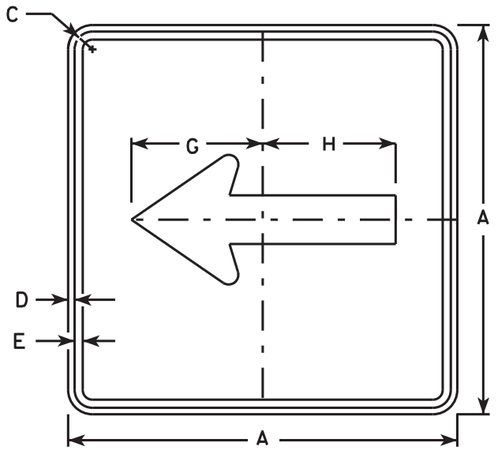
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

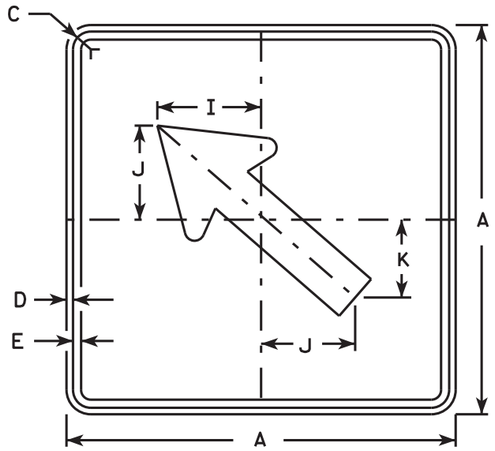
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M2-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



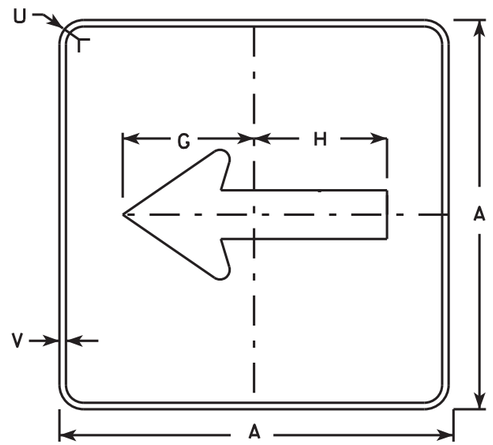
M6-1
MM6-1
MO6-1
MP6-1



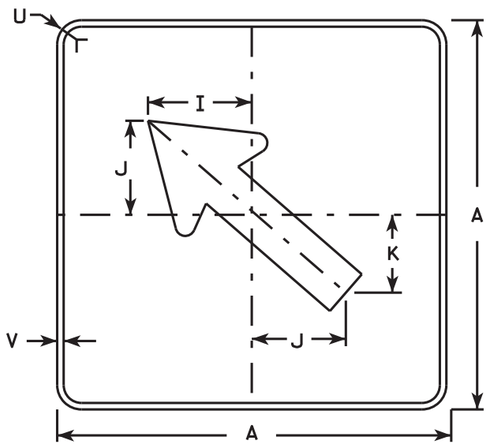
M6-2
MM6-2
MO6-2
MP6-2

NOTES

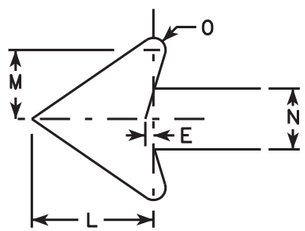
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



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	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

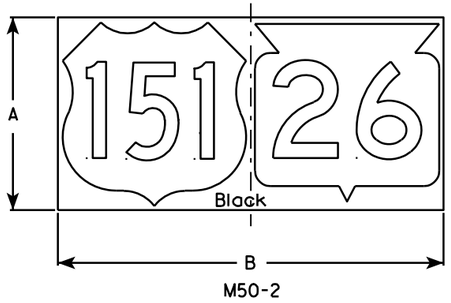
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15

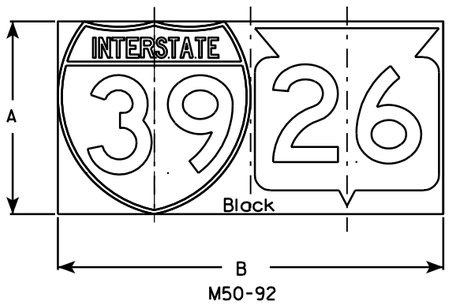
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7

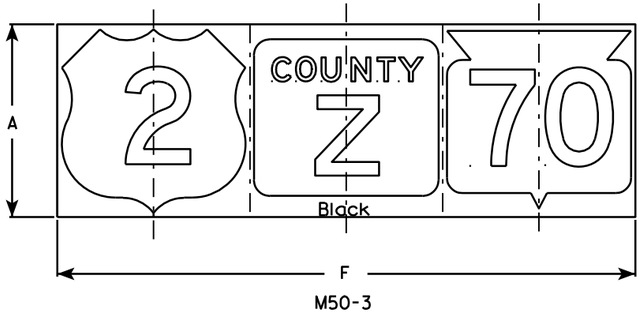
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 15-OCT-2015 13:17 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000
WISDOT/CADDS SHEET 42



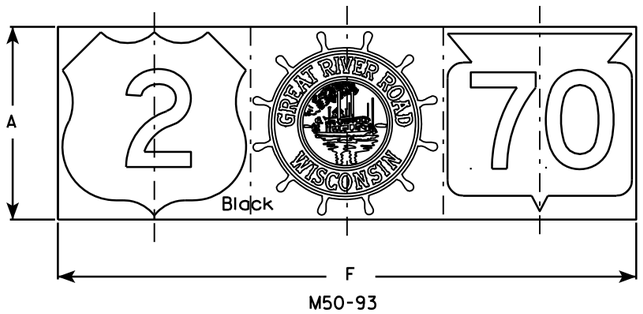
M50-2



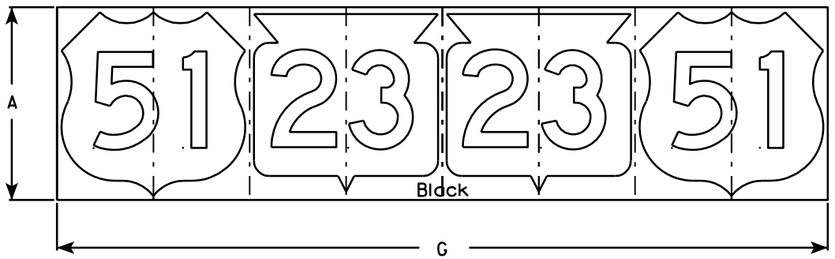
M50-92



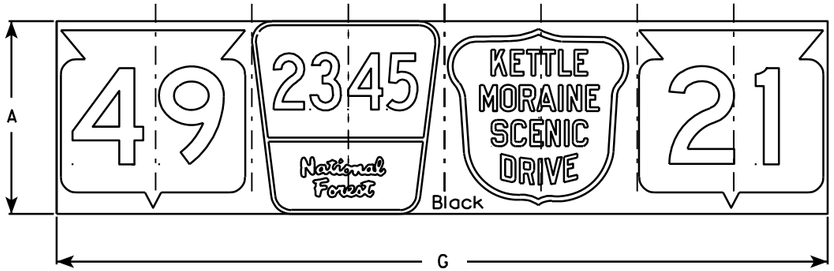
M50-3



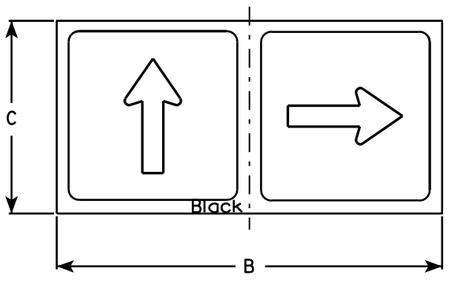
M50-93



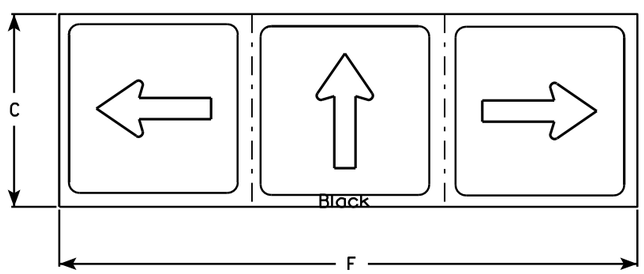
M50-4



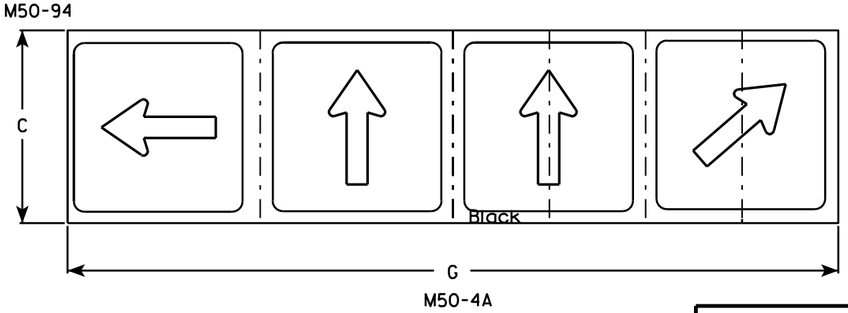
M50-94



M50-2A



M50-3A



M50-4A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black
   Message - See Note 5
3. Message Series - See Note 5
4. Corners shall be square since base material is plywood.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	M50-2/92/2A Area sq. ft.	M50-3/93/3A Area sq. ft.	M50-4/94/4A Area sq. ft.
1																									
2	24	48	21			72	96																8.0	12.0	16.0
3	36	72	30			96	144																18.0	24.0	36.0
4																									
5																									

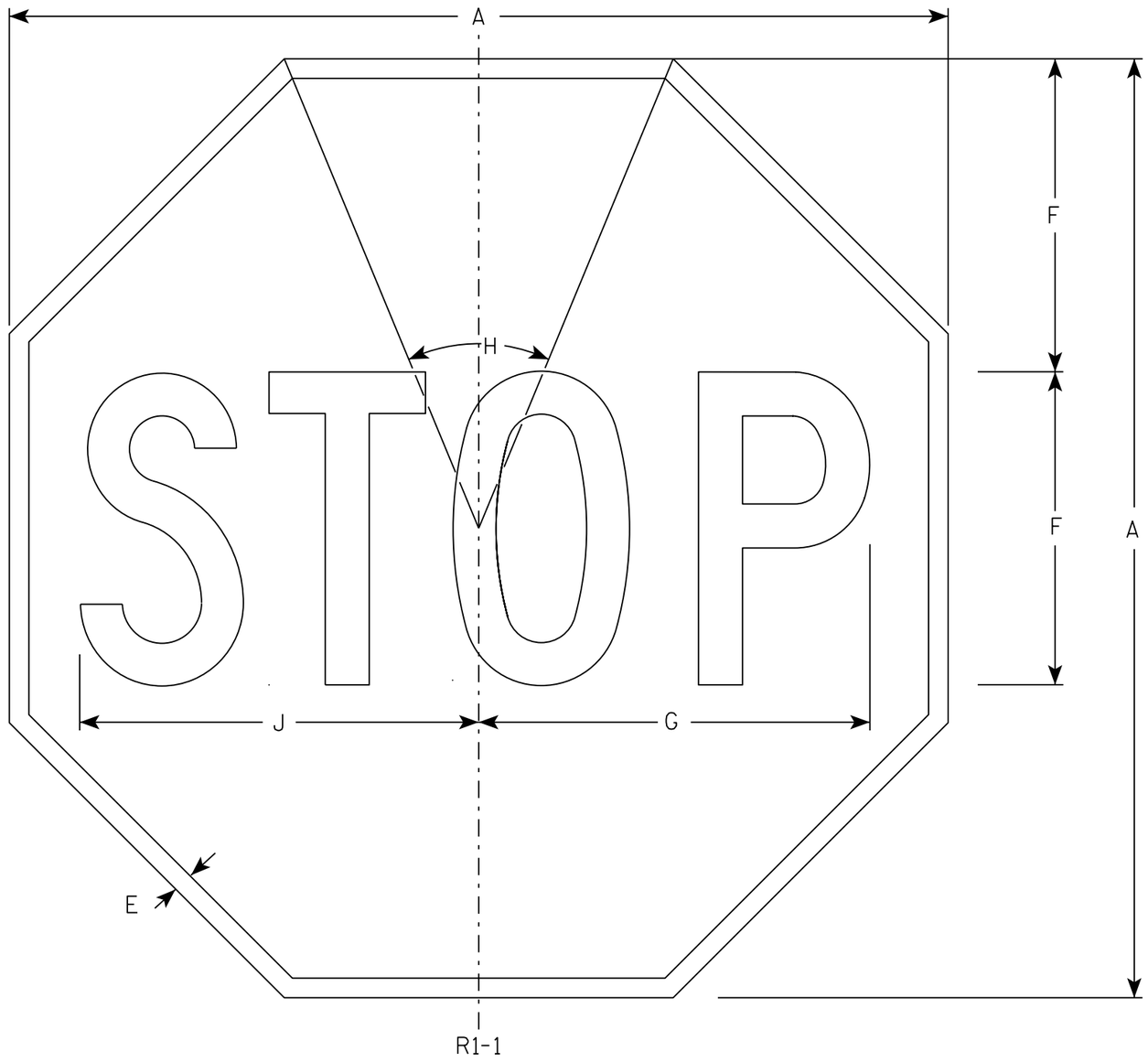
STANDARD SIGNS
M50 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/19/10 PLATE NO. M50.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 221 | 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

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

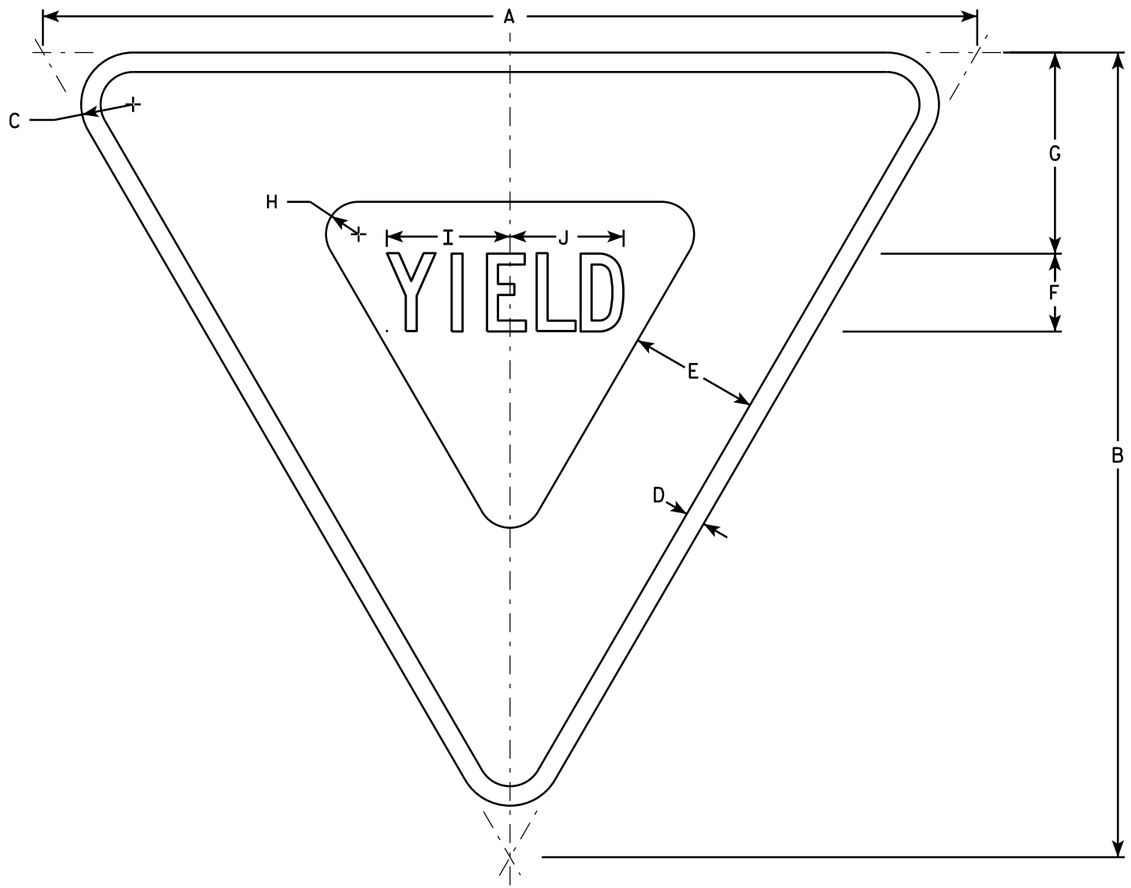
R1-1

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: 222	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message 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.
5. The border strip and word message are reflectorized red.

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	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

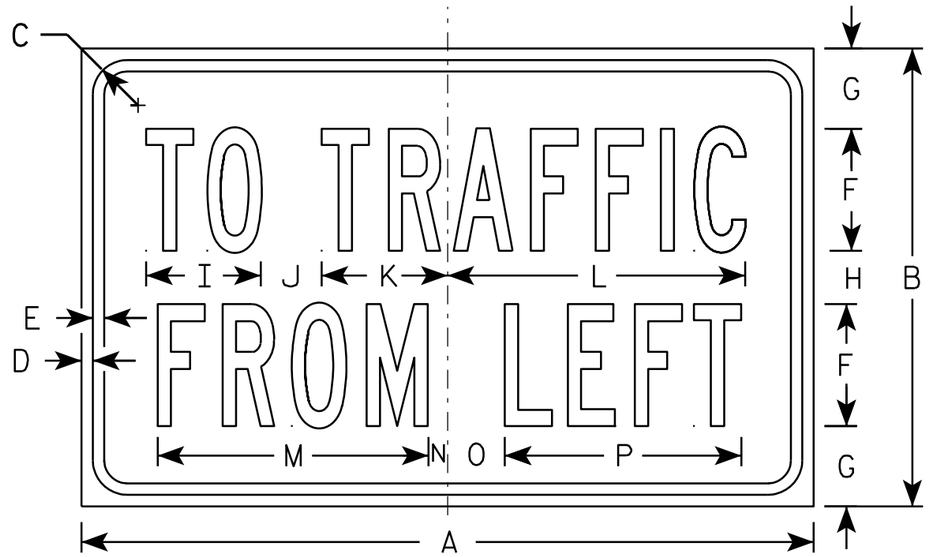
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R1-54

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 - B

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	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

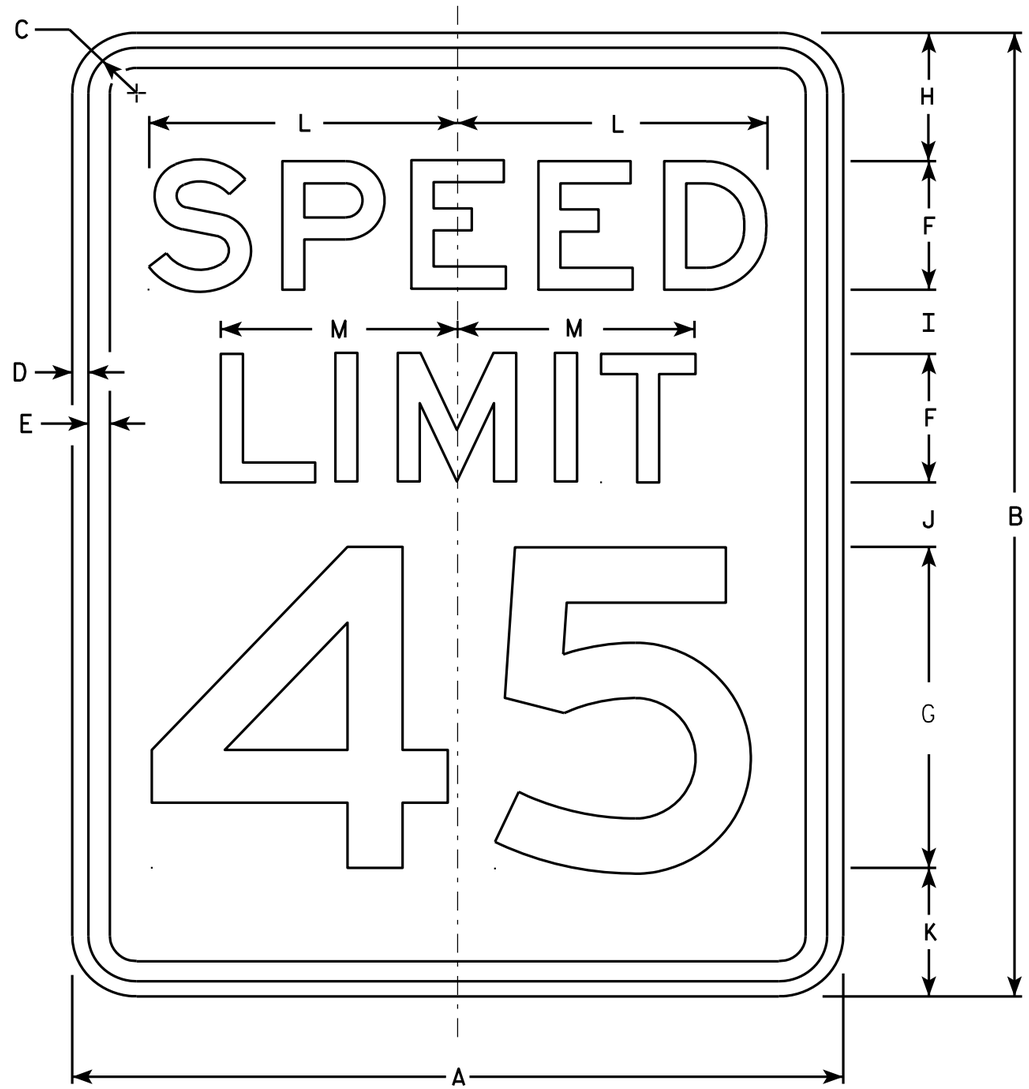
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 224	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.

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

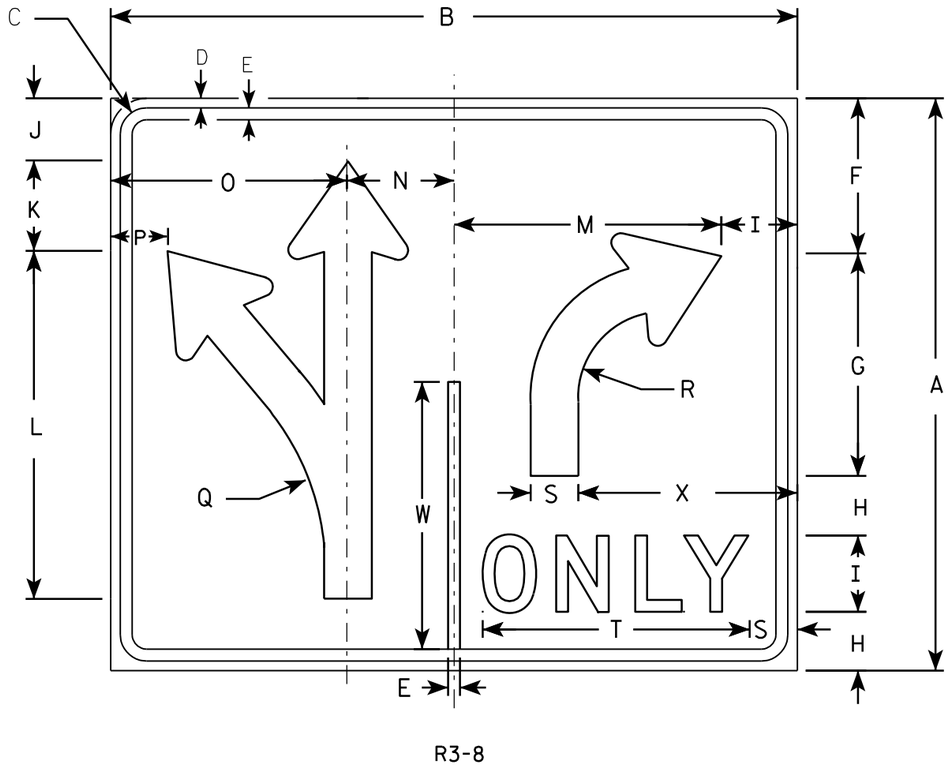
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

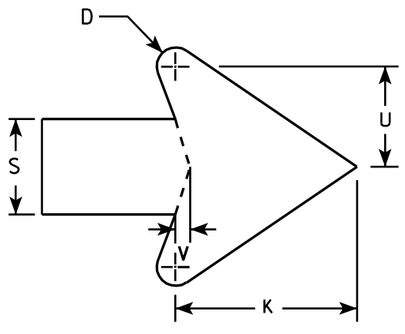
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 225 | E



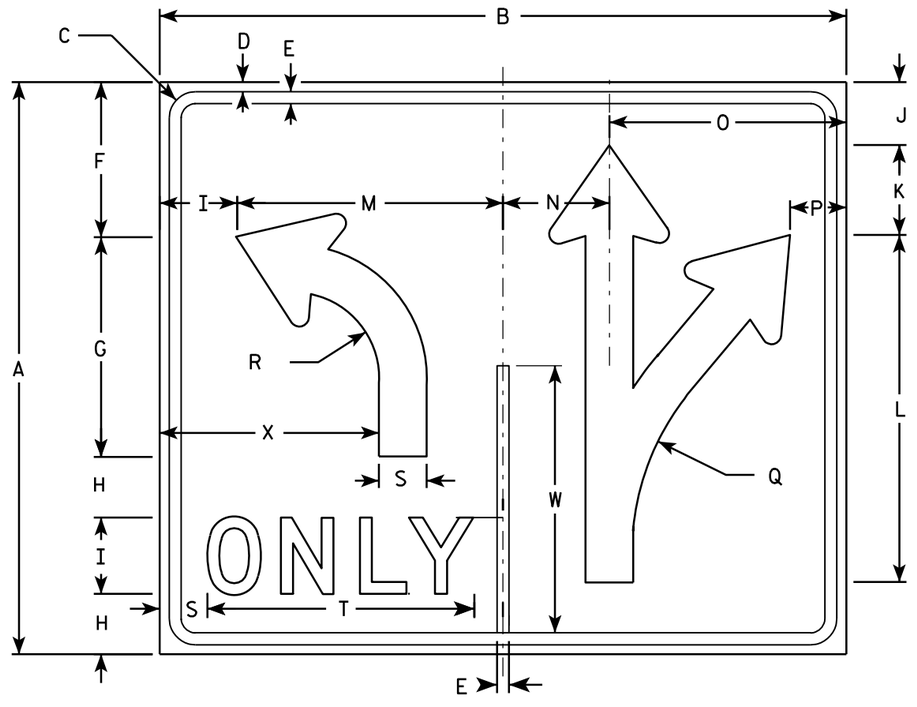
R3-8



ARROW DETAIL

NOTES

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



R3-8A

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	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0

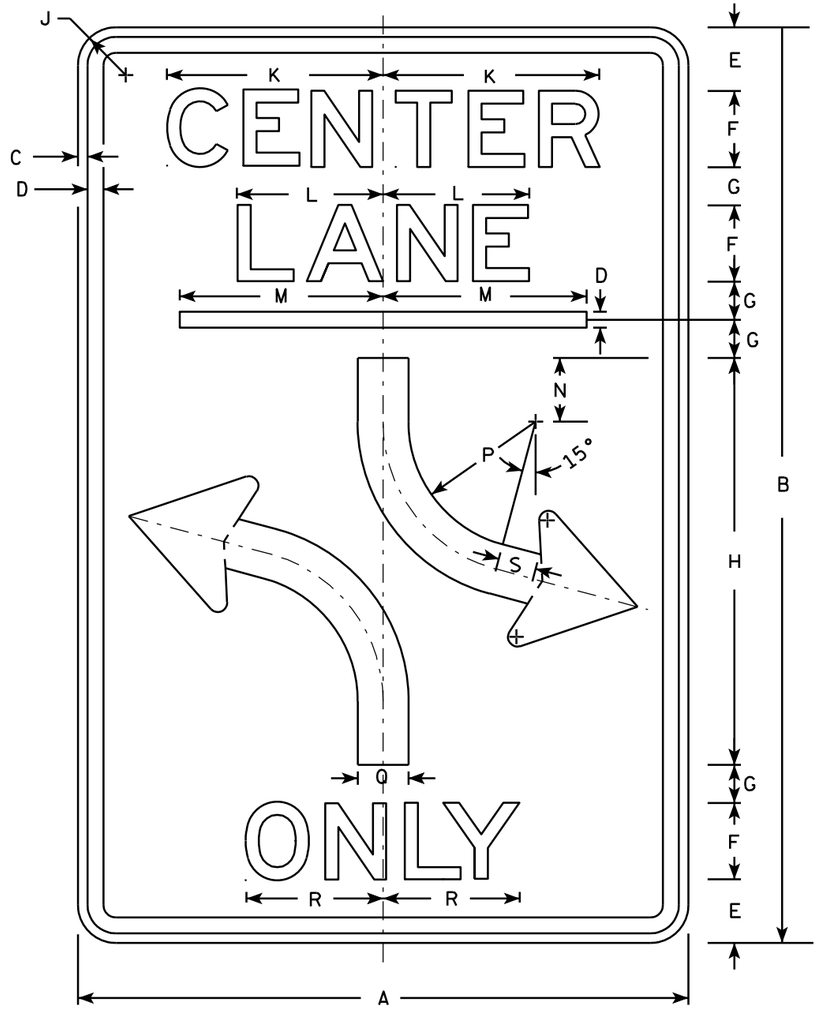
STANDARD SIGN
R3-8 & R3-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8.5

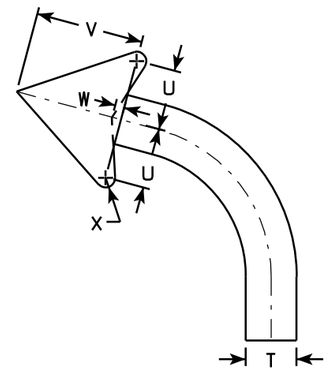
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 226	E



R3-9B

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.



ARROW DETAIL

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	24	36	3/8	1/2	2 1/2	3	1 1/2	16		1 1/2	8 1/2	5 3/4	8	2 1/2		6	2	5 1/8	1 1/2		2 3/8	4 3/8	3/8				6.0
2M	24	36	3/8	1/2	2 1/2	3	1 1/2	16		1 1/2	8 1/2	5 3/4	8	2 1/2		6	2	5 1/8	1 1/2		2 3/8	4 3/8	3/8				6.0
3	36	48	5/8	7/8	3 1/2	5	1 1/2	20		2 1/4	14 1/8	9 1/2	12	3		4	3	9 7/8	2		3 1/2	6 1/8	1/2				12.0
4																											
5																											

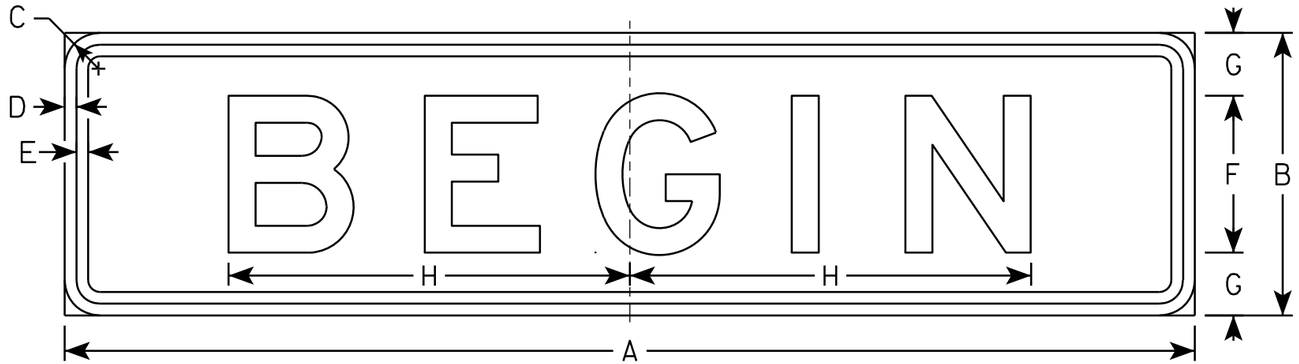
STANDARD SIGN
R3-9B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-9B.5

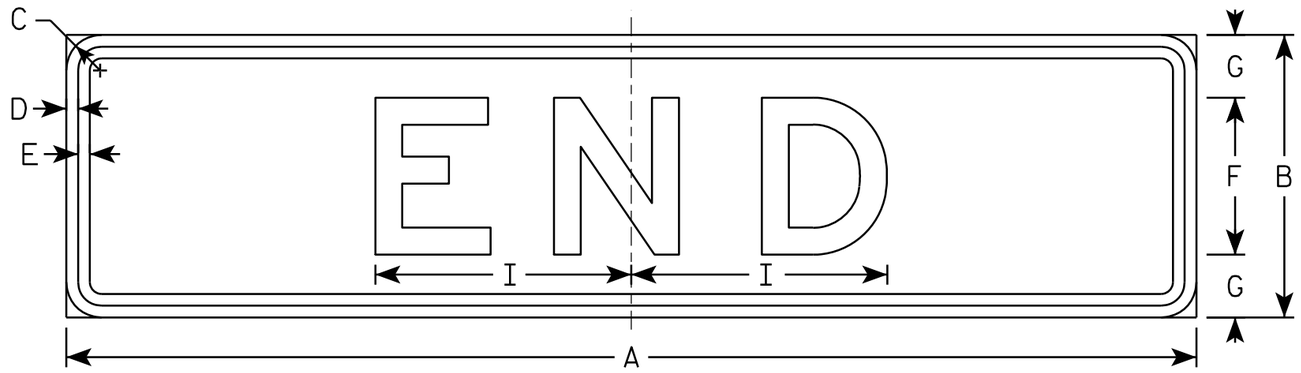
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 227	E



R3-9C

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.



R3-9D

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	24	6	1 1/8	3/8	3/8	3	1 1/2	7 3/4	4 7/8																		1.0
2M	24	6	1 1/8	3/8	3/8	3	1 1/2	7 3/4	4 7/8																		1.0
3	36	9	1 1/8	3/8	3/8	5	2	12 3/4	8 1/8																		1.86
4																											
5																											

STANDARD SIGN
R3-9C & R3-9D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-9C.2

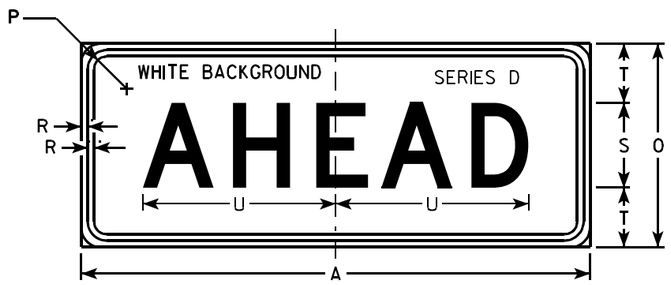
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 228	E



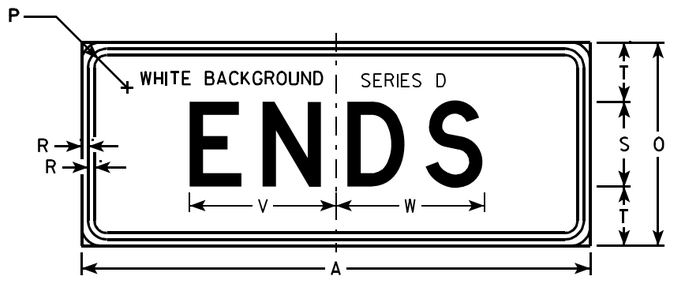
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
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.



R3-17ap



R3-17bp

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	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

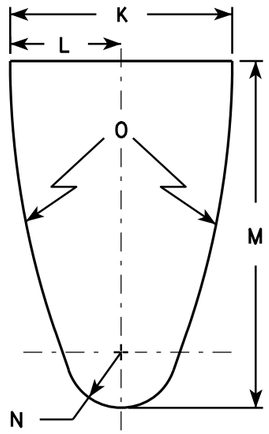
WISCONSIN DEPT OF TRANSPORTATION

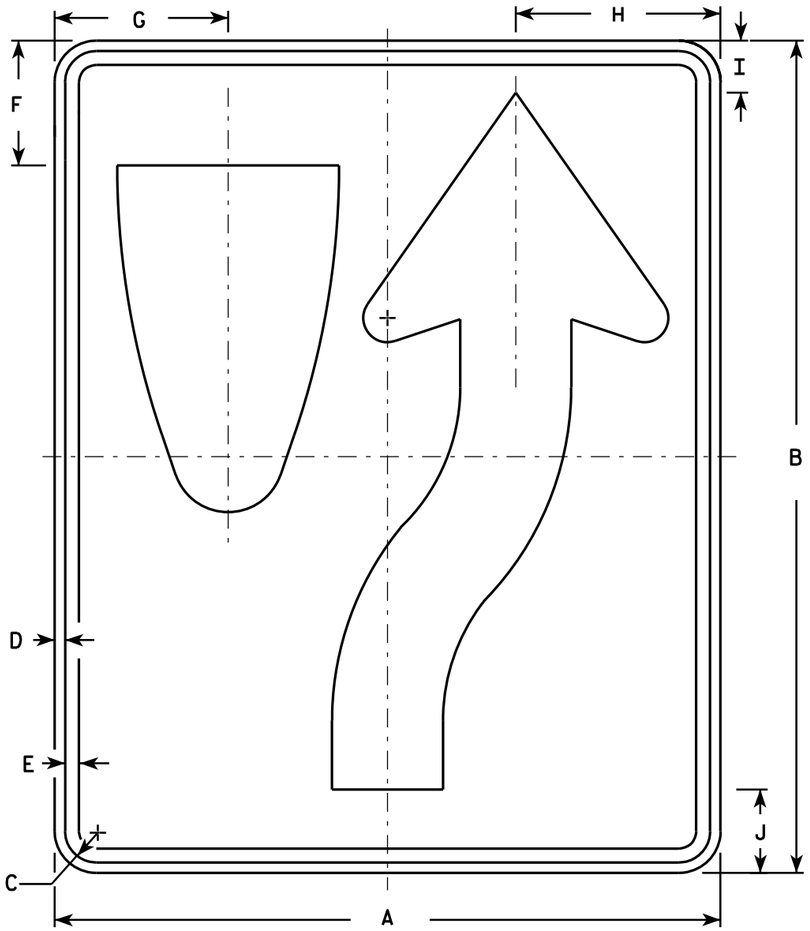
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

SHEET NO: 229 E

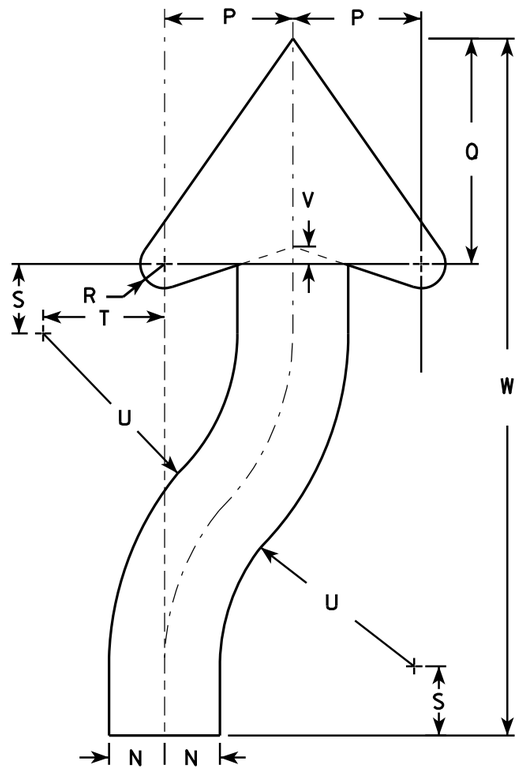




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

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 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

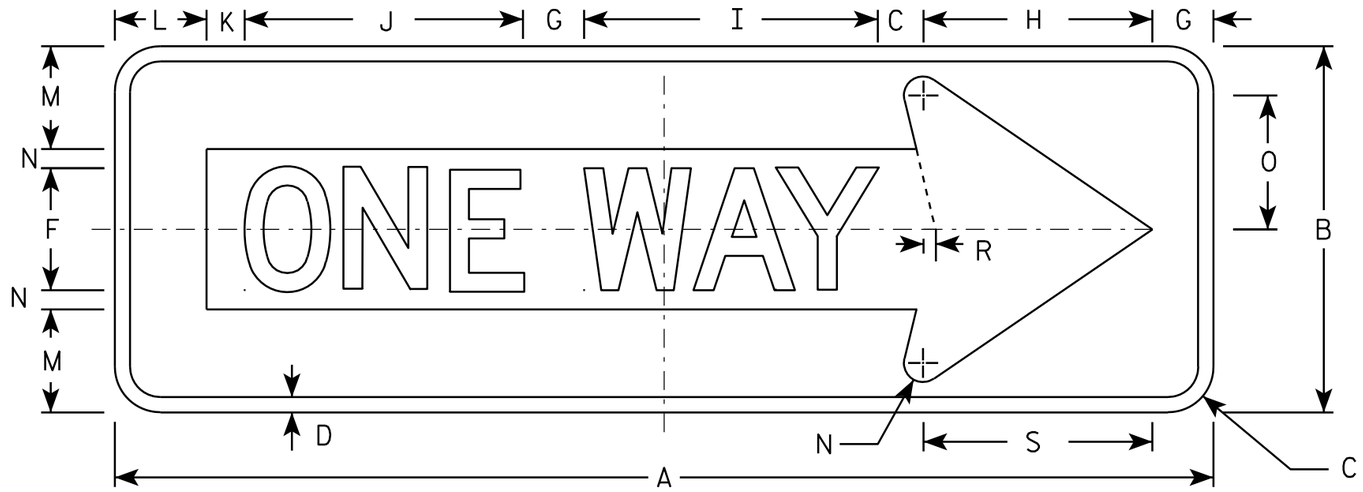
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

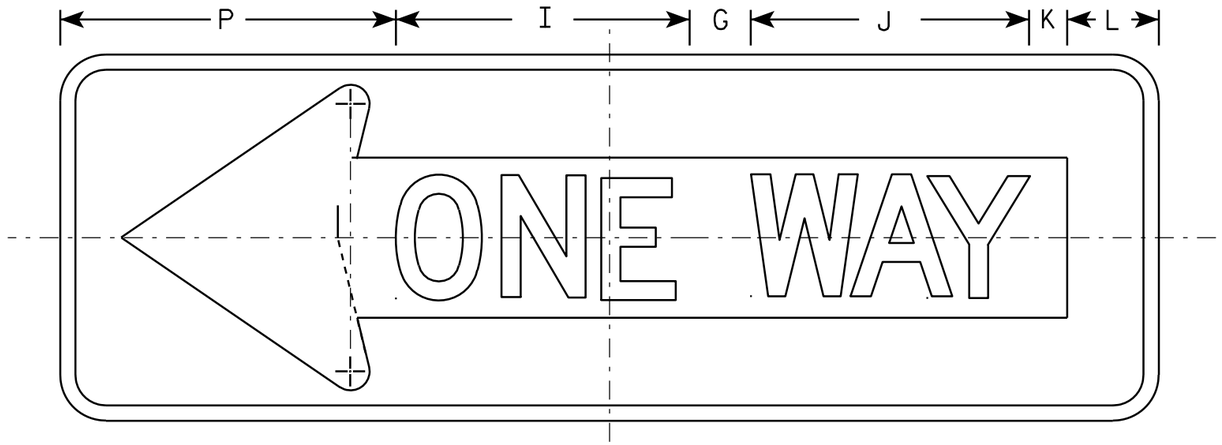
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 230	E



R6-1R

NOTES

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



R6-1L

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	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

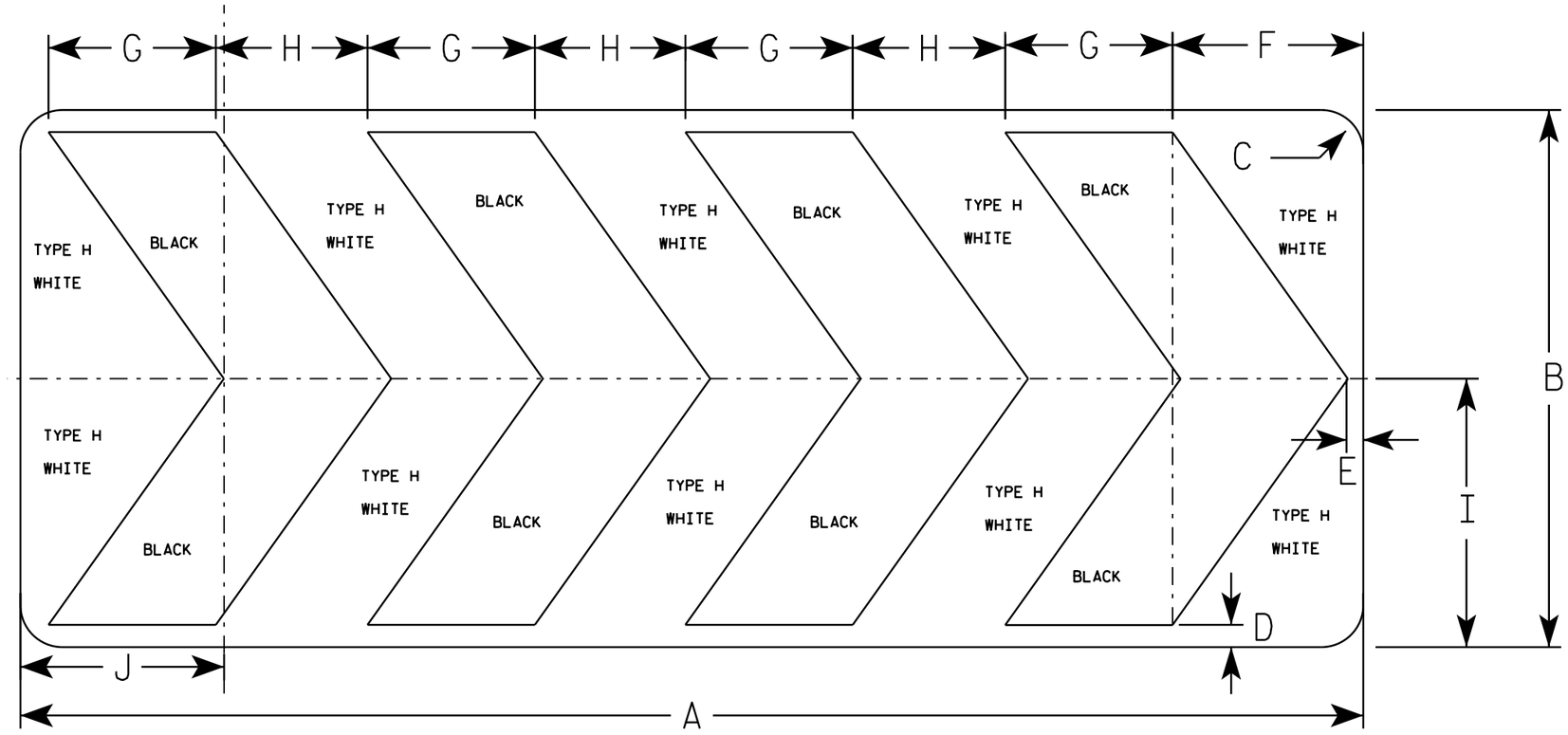
SHEET NO: 231 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R61.DGN PLOT DATE : 17-DEC-2010 14:11 PLOT BY : dotsja

WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   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.



R6-4B

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	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: SHEET NO: E

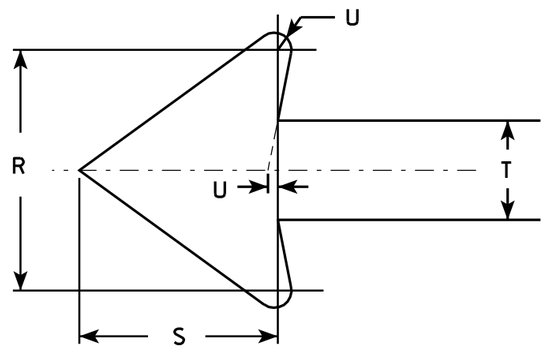


R7-2

*- 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.



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

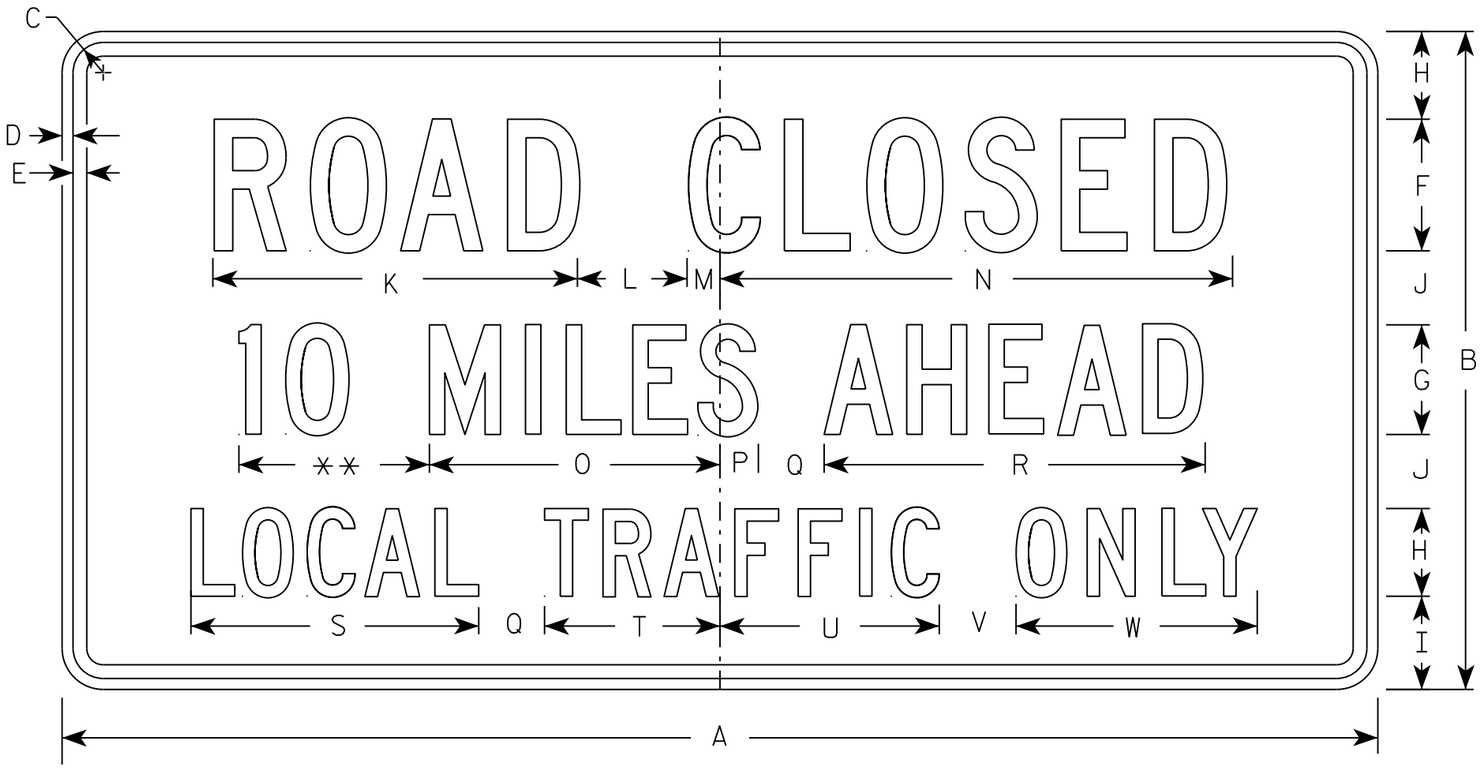
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 233	E

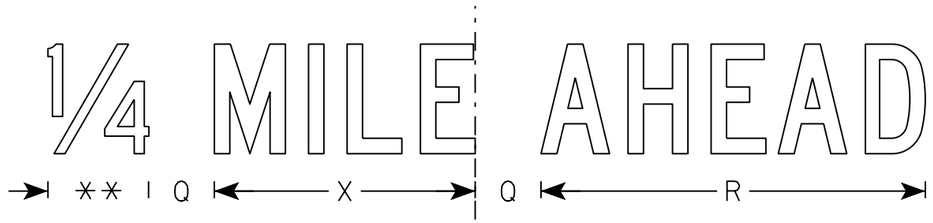
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message 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.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 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	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

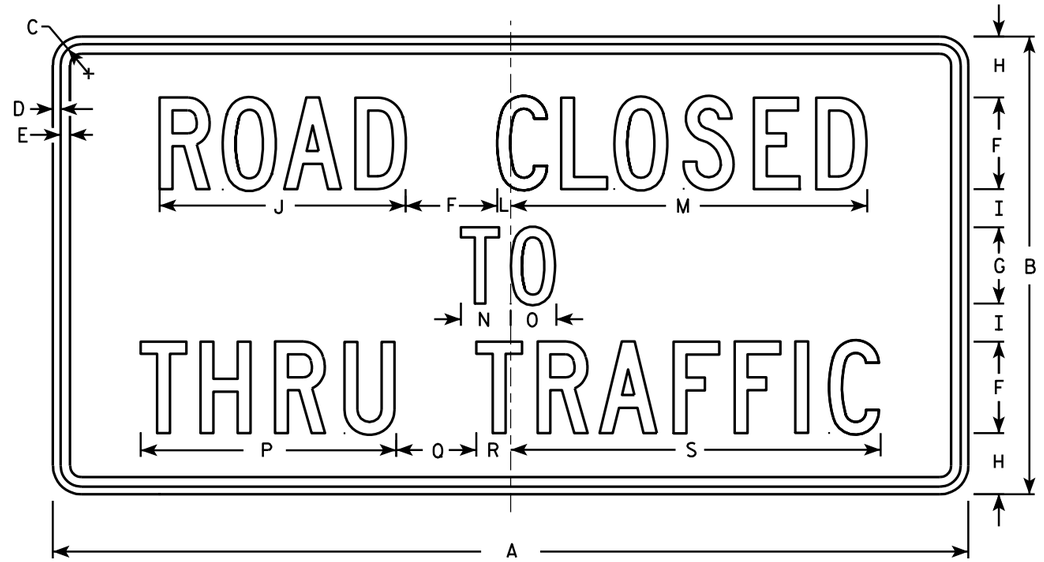
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/17 PLATE NO. R11-3.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 234	E



R11-4

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 - 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.

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	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

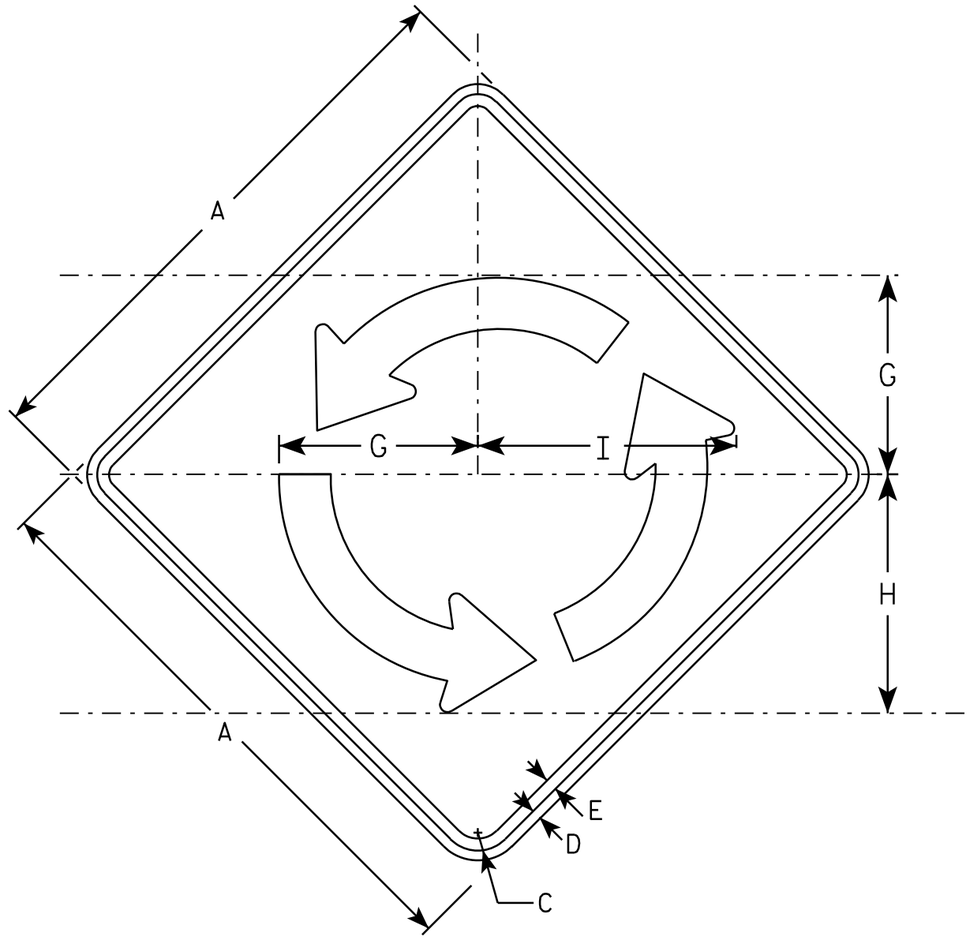
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

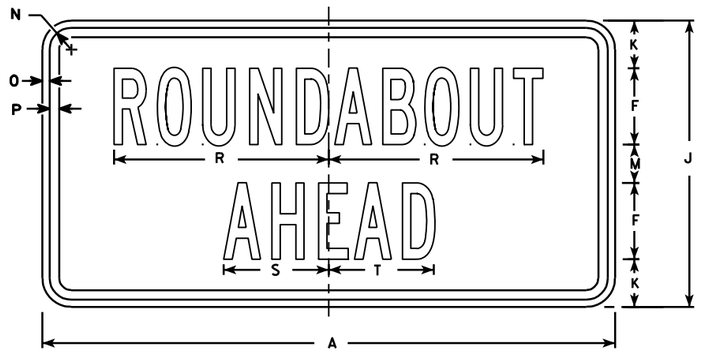
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 235 | E



W2-6

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. 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.



W2-6P

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	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

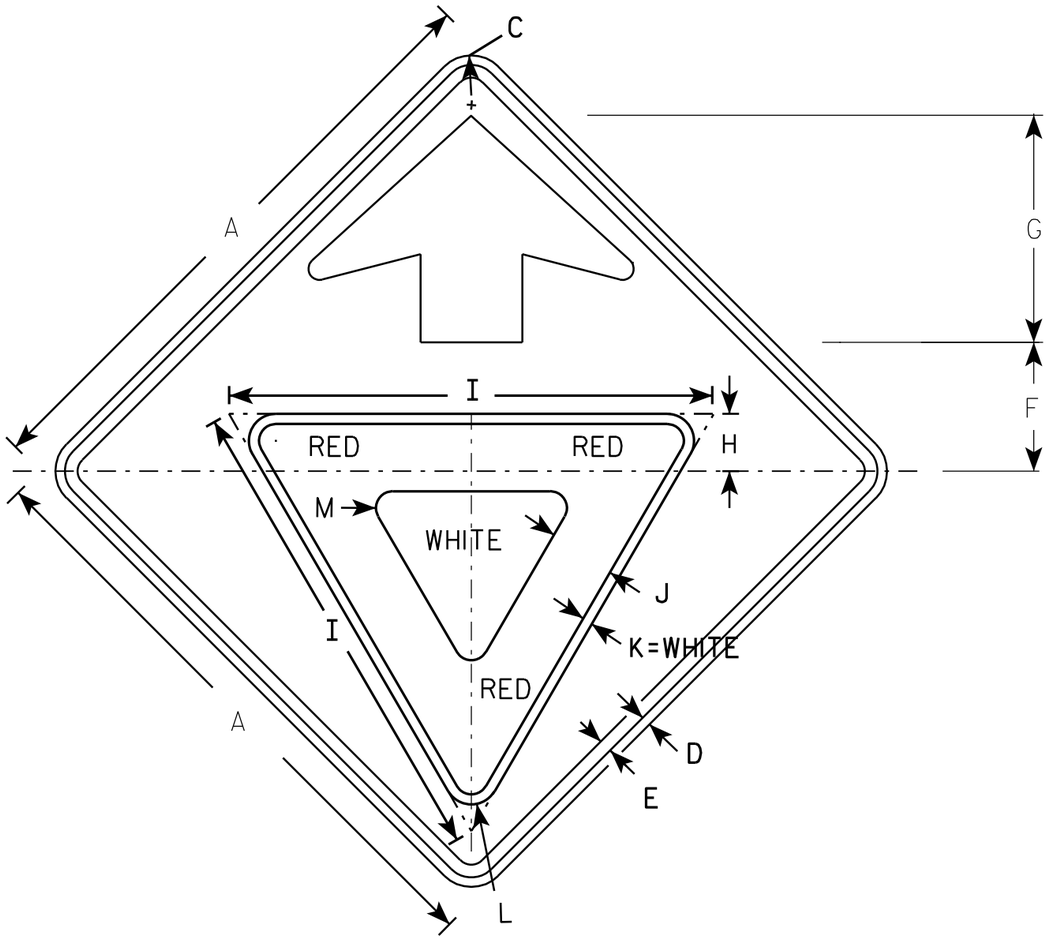
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

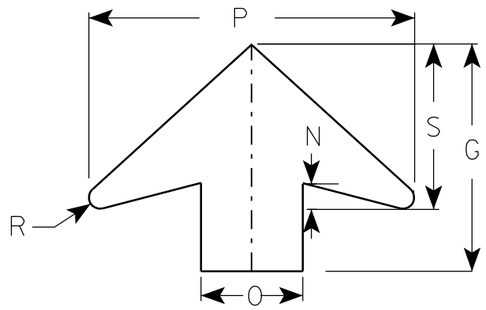
SHEET NO: 236 E



W3-2

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
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

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	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

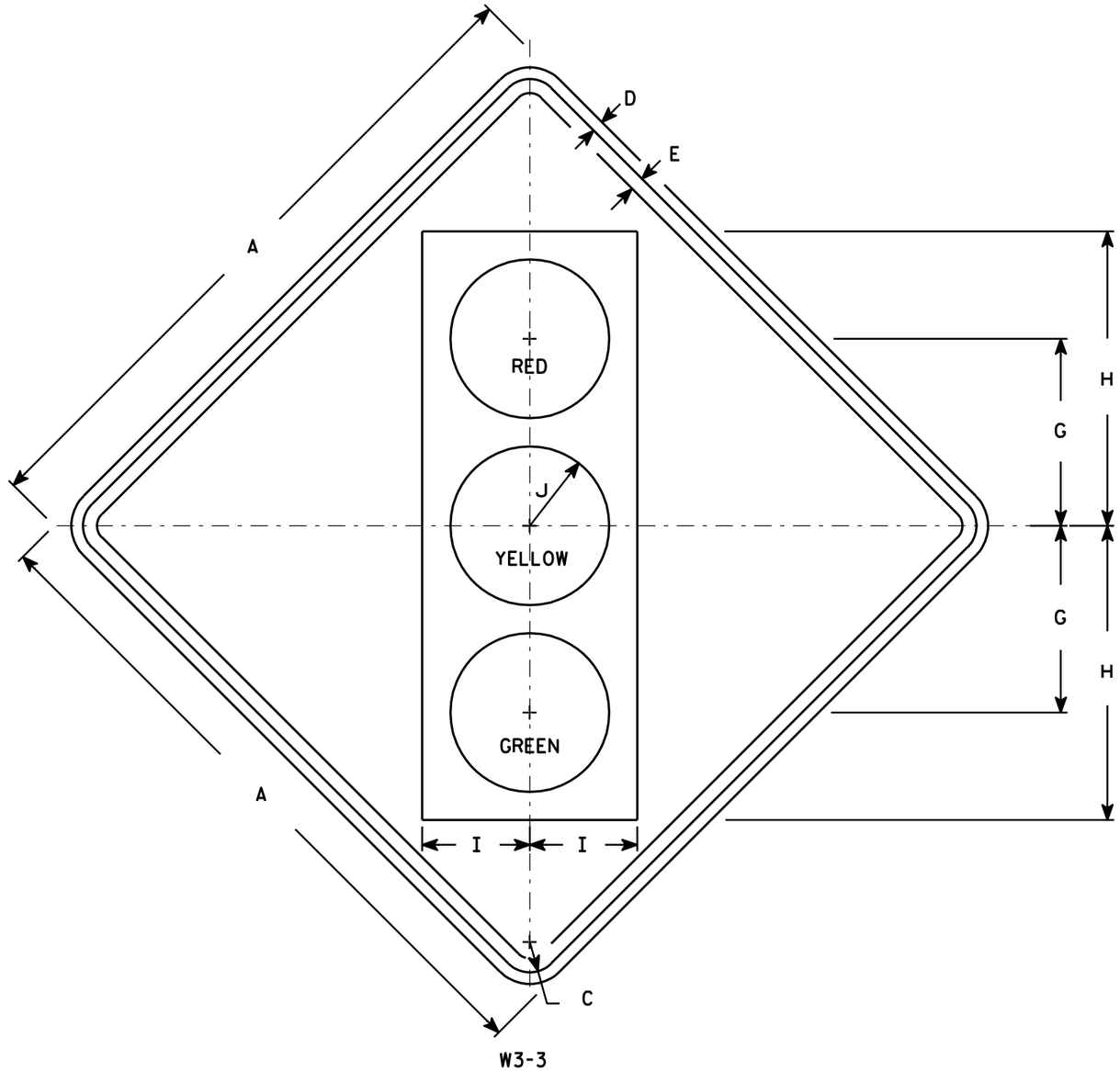
SHEET NO: 237 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W32.DGN PLOT DATE : 07-JUN-2010 13:03 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7



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 - See Note 4
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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

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		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

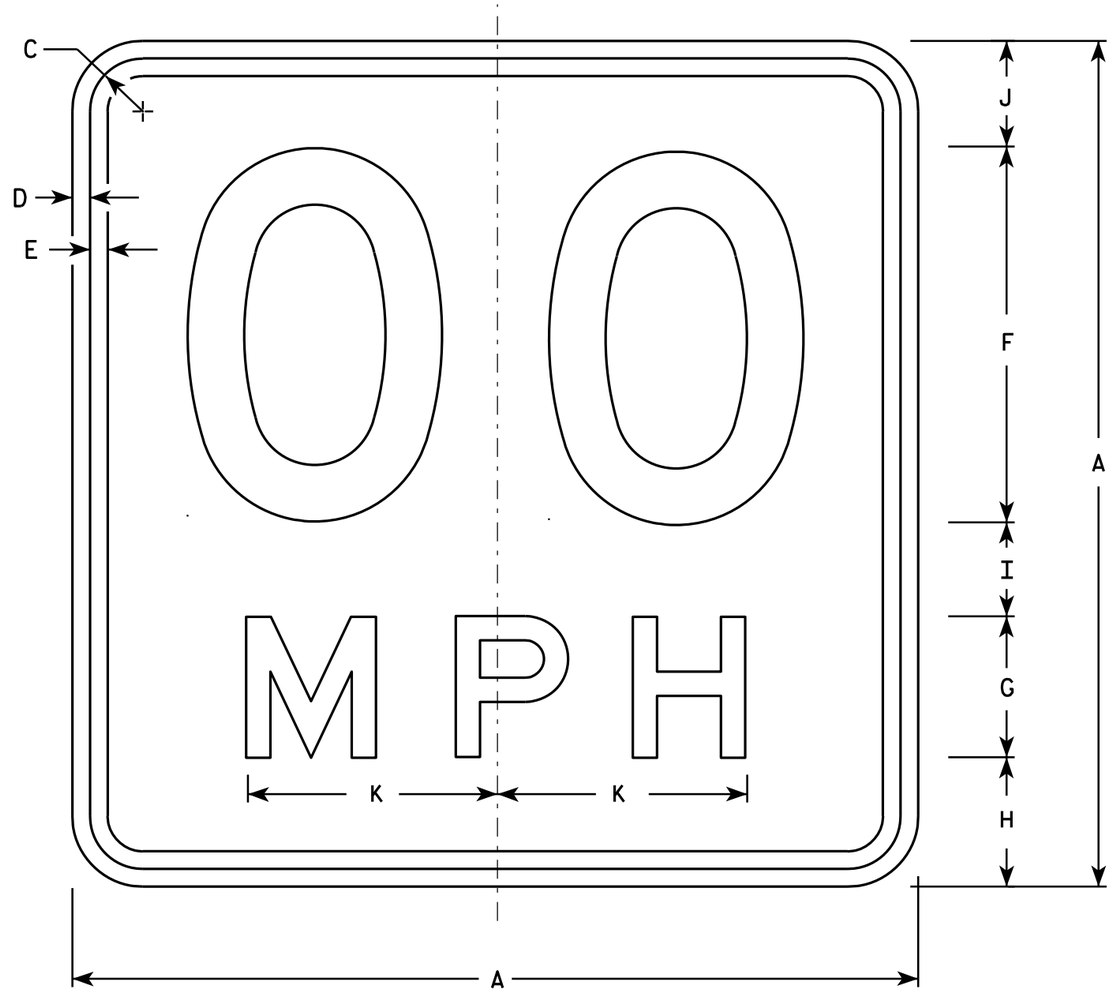
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 238 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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. Message Series - See Note 6
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 space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	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		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

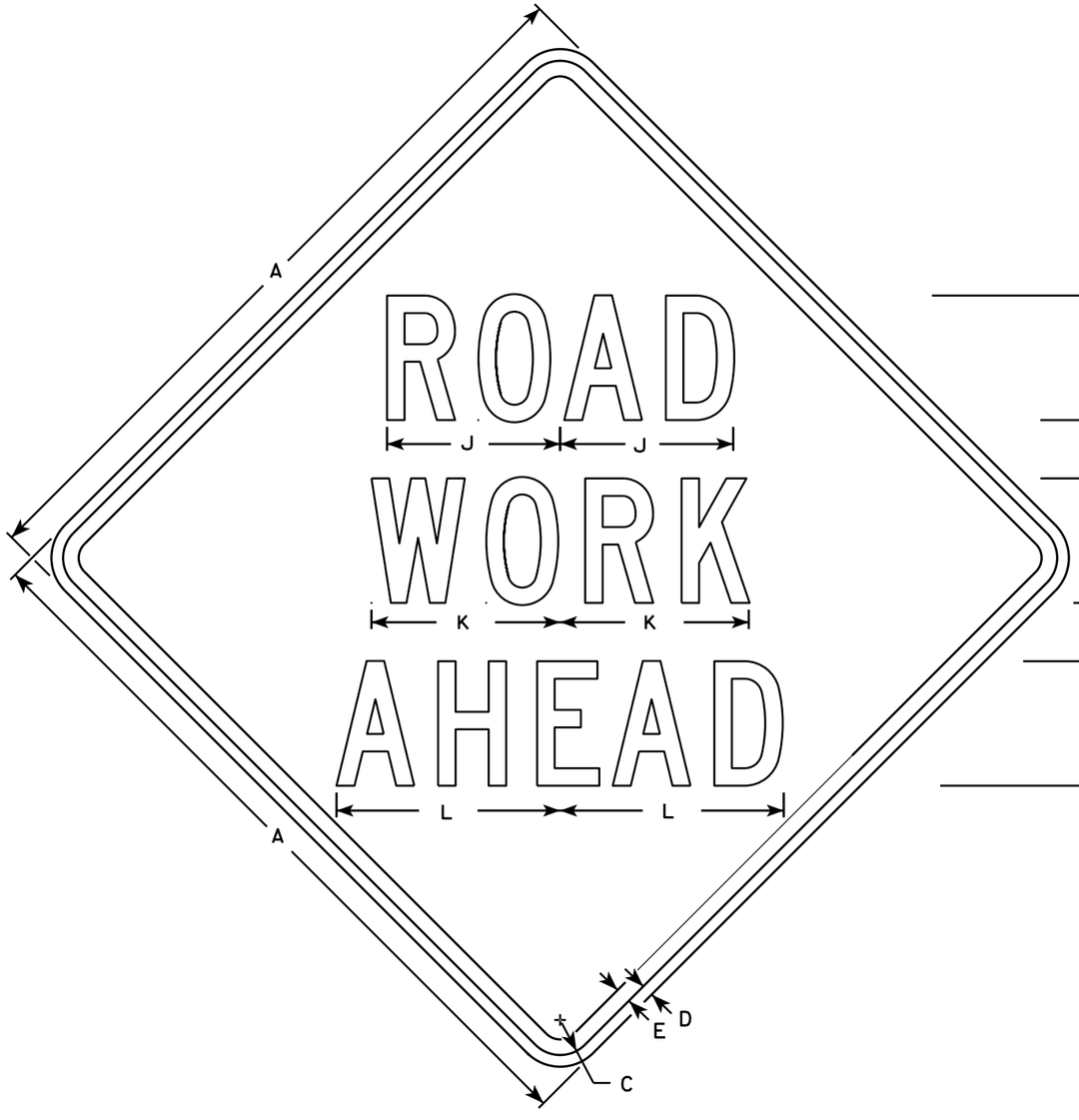
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

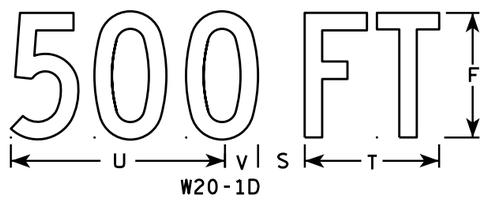
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

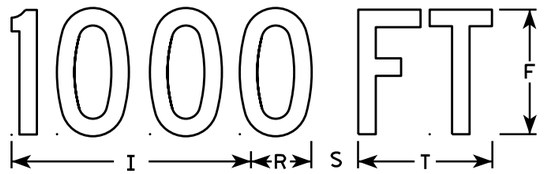
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 239 | E



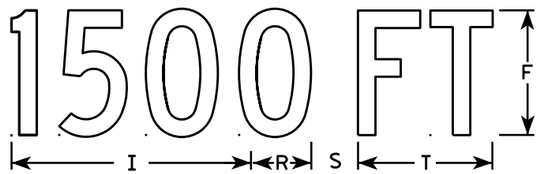
W20-1A



W20-1D



W20-1C



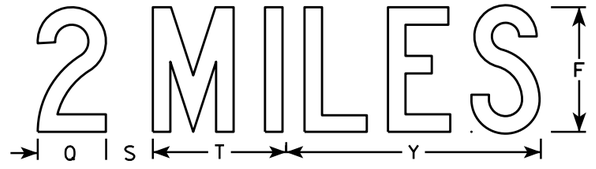
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message 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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

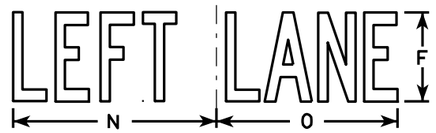
SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W201.dgn PLOT DATE : 27-MAY-2015 15:58 PLOT BY : mscsja

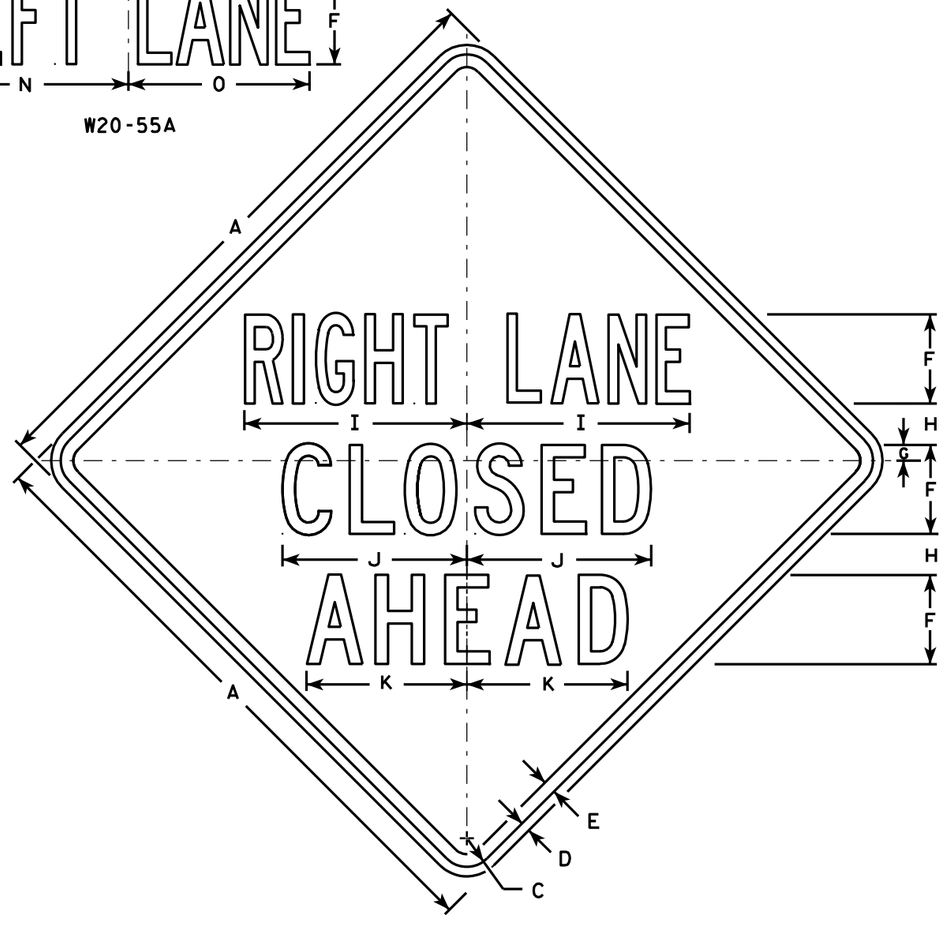
WISDOT/CADDS SHEET 42



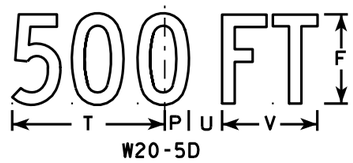
W20-56A



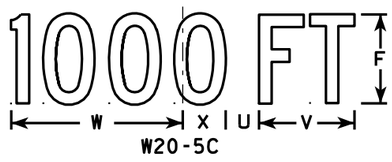
W20-55A



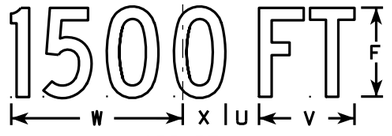
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

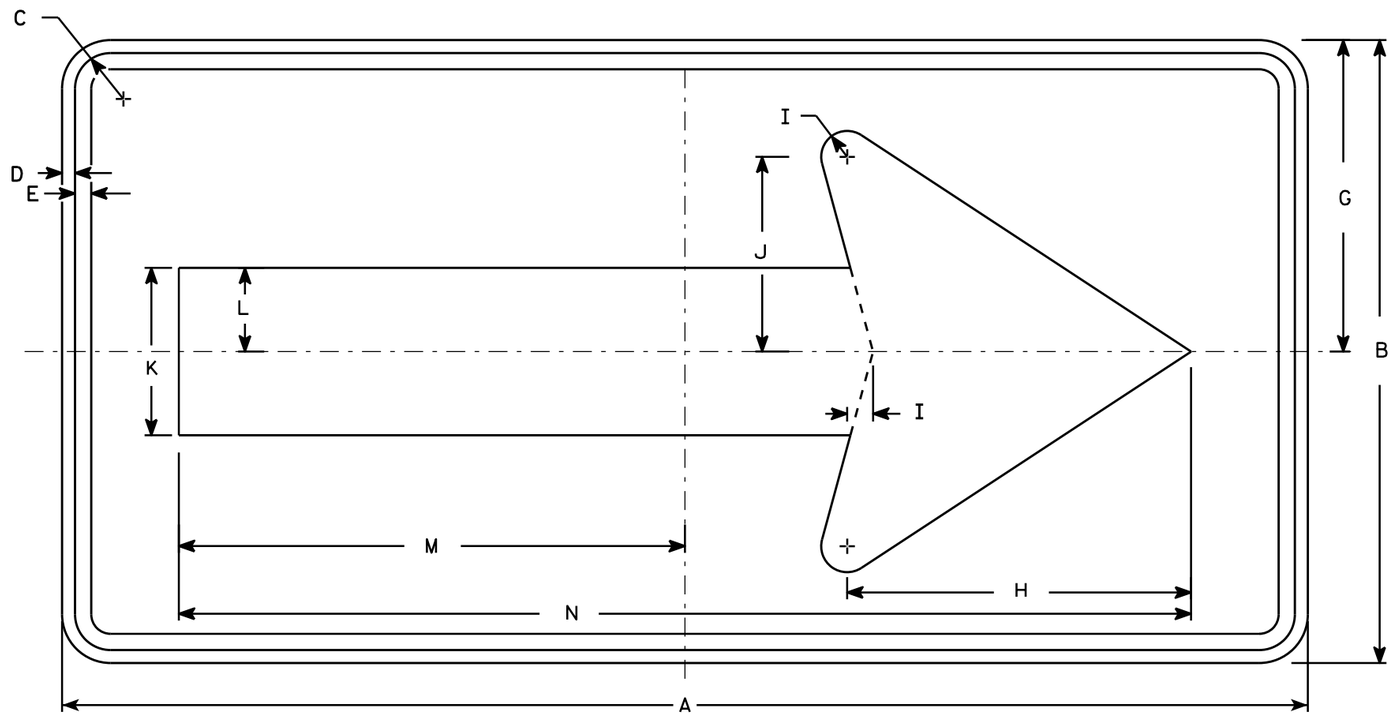
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 241 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



WO1-6

NOTES

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

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	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. WO1-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO16.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42

EARTHWORK - CTH LP

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut 1.00	Expanded Fill 1.33	Expanded Marsh Backfill 1.50	Mass Ordinate
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 8
22+50	92.66	20.1	51.72	0	0	0	0	0	0	0	0	0
22+75	99.59	20.1	24.31	0	89	19	35	0	89	47	0	24
23+00	108.53	20.1	15.45	0	96	19	18	0	185	71	0	77
23+25	130.73	20.1	4.04	0	111	19	9	0	296	83	0	157
23+50	151.21	20.1	25.41	0	131	19	14	0	427	101	0	251
23+75	145.09	20.1	29.41	0	137	19	25	0	564	135	0	336
24+00	194.32	20.1	15.36	0	157	19	21	0	721	163	0	447
24+25	215.53	20.1	12.29	0	190	19	13	0	911	180	0	601
24+50	182.53	20.1	19.47	0	184	19	15	0	1,095	199	0	747
24+75	194.29	20.1	14.14	0	174	19	16	0	1,269	220	0	882
25+00	205.92	20.1	10.89	0	185	19	12	0	1,455	235	0	1,033
25+25	219.50	20.1	8.89	0	197	19	9	0	1,652	248	0	1,199
25+50	233.04	20.1	7.01	0	210	19	7	0	1,861	257	0	1,380
25+75	242.32	20.1	4.52	0	220	19	5	0	2,081	265	0	1,575
26+00	247.83	20.1	3.44	0	227	19	4	0	2,308	269	0	1,778
26+25	248.91	20.1	3.17	0	230	19	3	0	2,538	273	0	1,986
26+50	247.04	20.1	3.48	0	230	19	3	0	2,768	278	0	2,192
26+75	246.09	20.1	4.34	0	228	19	4	0	2,996	282	0	2,397
27+00	250.32	20.1	4.45	0	230	19	4	0	3,226	288	0	2,603
27+25	294.13	20.1	0.75	0	252	19	2	0	3,478	291	0	2,833
27+50	251.04	20.1	3.96	0	252	19	2	0	3,730	294	0	3,064
27+75	283.63	20.1	6.29	0	248	19	5	0	3,978	300	0	3,287
28+00	281.78	20.1	5.58	0	262	19	5	0	4,240	308	0	3,523
28+25	238.31	28.1	7.85	0	241	22	6	0	4,480	316	0	3,733
28+50	240.08	28.1	9.71	0	221	26	8	0	4,702	327	0	3,918
28+75	240.64	28.1	14.81	0	223	26	11	0	4,924	342	0	4,099
29+00	240.93	28.1	17.52	0	223	26	15	0	5,147	362	0	4,276
29+25	238.22	28.1	44.41	0	222	26	29	0	5,369	400	0	4,434
29+50	247.46	28.1	13.07	0	225	26	27	0	5,594	435	0	4,597
29+75	248.58	28.1	9.76	0	230	26	11	0	5,824	449	0	4,787
30+00	244.97	28.1	13.33	0	228	26	11	0	6,052	463	0	4,975
30+25	251.26	28.1	11.85	0	230	26	12	0	6,282	479	0	5,163
30+50	257.25	28.1	10.48	0	235	26	10	0	6,517	493	0	5,359
30+75	262.26	28.1	8.09	0	241	26	9	0	6,758	504	0	5,562
31+00	244.78	28.1	13.41	0	235	26	10	0	6,993	517	0	5,757

Notes:	
1 - Cut	Cut includes existing asphalt and base materia
2 - Unusable Pavement Material	Does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Material
4 - Expanded Marsh Backfill	Will be backfilled with Select Borrow
8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)
8 - Mass Ordinate	Mass Ordinate does not include Marsh

EARTHWORK - CTH LP

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut 1.00	Expanded Fill 1.33	Expanded Marsh Backfill 1.50	Mass Ordinate
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 8
31+25	243.67	28.1	13.10	0	226	26	12	0	7,219	534	0	5,941
31+50	243.64	28.1	12.84	0	226	26	12	0	7,444	550	0	6,125
31+75	243.93	28.1	12.00	0	226	26	12	0	7,670	565	0	6,309
32+00	244.79	28.1	11.05	0	226	26	11	0	7,896	579	0	6,495
32+25	263.22	28.1	9.29	0	235	26	9	0	8,132	592	0	6,692
32+50	299.76	28.1	0.00	0	261	26	4	0	8,392	597	0	6,921
32+75	324.10	28.1	0.00	0	289	26	0	0	8,681	597	0	7,184
33+00	422.04	28.1	0.00	0	345	26	0	0	9,026	597	0	7,503
33+25	424.36	28.1	0.00	0	392	26	0	0	9,418	597	0	7,869
33+50	310.32	28.1	0.00	0	340	26	0	0	9,758	597	0	8,183
33+75	263.58	28.1	24.32	0	266	26	11	0	10,024	612	0	8,408
34+00	221.76	28.1	13.72	0	225	26	18	0	10,249	636	0	8,583
34+25	203.12	28.1	8.47	0	197	26	10	0	10,446	649	0	8,740
34+50	192.15	28.1	12.51	0	183	26	10	0	10,629	662	0	8,884
34+75	189.83	28.1	13.48	0	177	26	12	0	10,805	678	0	9,019
35+00	185.79	28.1	15.31	0	174	26	13	0	10,979	696	0	9,149
35+25	181.38	28.1	17.11	0	170	26	15	0	11,149	716	0	9,273
35+50	176.19	28.1	19.52	0	166	26	17	0	11,315	739	0	9,390
35+75	170.41	28.1	24.75	0	160	26	20	0	11,475	766	0	9,497
36+00	169.91	28.1	21.88	0	158	26	22	0	11,633	795	0	9,600
36+25	170.22	28.1	18.64	0	157	26	19	0	11,790	820	0	9,706
36+50	171.88	28.1	16.27	0	158	26	16	0	11,949	841	0	9,817
36+75	172.43	28.1	15.40	0	159	26	15	0	12,108	861	0	9,931
37+00	167.89	28.1	18.68	0	158	26	16	0	12,266	881	0	10,042
37+25	163.32	28.1	22.57	0	153	26	19	0	12,419	907	0	10,144
37+50	162.59	28.1	24.62	0	151	26	22	0	12,570	936	0	10,239
37+75	164.74	28.1	27.76	0	152	26	24	0	12,721	968	0	10,333
38+00	196.19	28.1	25.25	0	167	26	25	0	12,888	1,001	0	10,441
38+25	159.07	28.1	36.45	0	164	26	29	0	13,053	1,039	0	10,542
38+50	155.84	28.1	37.03	0	146	26	34	0	13,199	1,084	0	10,616
38+75	153.37	28.1	37.95	0	143	26	35	0	13,342	1,130	0	10,687
39+00	151.26	28.1	41.16	0	141	26	37	0	13,483	1,179	0	10,753
39+25	150.75	28.1	41.42	0	140	26	38	0	13,623	1,230	0	10,816
39+50	150.00	28.1	41.48	0	139	26	38	0	13,762	1,281	0	10,879
39+75	164.11	28.1	34.82	0	145	26	35	0	13,907	1,328	0	10,951
39+86	175.28	28.1	34.73	0	69	11	14	0	13,977	1,347	0	10,990
40+00	154.53	28.1	36.39	0	86	15	18	0	14,062	1,371	0	11,036
40+25	143.96	28.1	45.78	0	138	26	38	0	14,200	1,422	0	11,098
40+50	142.09	28.1	53.30	0	132	26	46	0	14,333	1,483	0	11,143
40+75	140.91	28.1	54.57	0	131	26	50	0	14,464	1,549	0	11,182

Notes:	
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2 - Unusable Pavement Material	Does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Material
4 - Expanded Marsh Backfill	Will be backfilled with Select Borrow
8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)
8 - Mass Ordinate	Mass Ordinate does not include Marsh

EARTHWORK - CTH LP

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut 1.00	Expanded Fill 1.33	Expanded Marsh Backfill 1.50	Mass Ordinate
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 8
41+00	139.45	28.1	50.65	0	130	26	49	0	14,593	1,614	0	11,221
41+25	136.28	28.1	50.92	0	128	26	47	0	14,721	1,677	0	11,260
41+50	135.63	28.1	60.57	35	126	26	52	16	14,847	1,745	24	11,291
41+75	133.77	28.1	70.36	34	125	26	61	32	14,972	1,826	72	11,309
42+00	129.08	28.1	97.33	44	122	26	78	36	15,093	1,929	126	11,302
42+25	122.60	28.1	105.71	73	117	26	94	54	15,210	2,054	208	11,267
42+50	115.90	28.1	119.14	76	110	26	104	69	15,320	2,193	311	11,213
42+75	109.73	28.1	129.53	84	104	26	115	74	15,425	2,346	422	11,138
43+00	102.77	28.1	139.63	90	98	26	125	81	15,523	2,511	543	11,045
43+25	94.84	28.1	123.03	78	91	26	122	78	15,615	2,673	660	10,949
43+50	90.02	28.1	106.14	47	86	26	106	58	15,700	2,814	747	10,867
43+75	81.70	28.1	89.74	0	80	26	91	22	15,780	2,935	780	10,800
44+00	74.77	28.1	76.68	0	72	26	77	0	15,852	3,037	780	10,744
44+25	69.63	28.1	63.75	0	67	26	65	0	15,919	3,124	780	10,698
44+50	64.45	28.1	56.63	0	62	26	56	0	15,981	3,198	780	10,660
44+75	60.10	28.1	47.45	0	58	26	48	0	16,039	3,262	780	10,628
45+00	57.25	28.1	58.61	0	54	26	49	0	16,093	3,327	780	10,591
45+25	69.28	28.1	12.03	0	59	26	33	0	16,152	3,371	780	10,580
45+50	65.81	28.1	22.58	0	63	26	16	0	16,214	3,392	780	10,595
45+75	76.97	28.1	25.24	0	66	26	22	0	16,280	3,422	780	10,606
46+00	111.28	28.1	12.42	0	87	26	17	0	16,368	3,445	780	10,644
46+25	201.35	28.1	0.00	0	145	26	6	0	16,512	3,452	780	10,755
46+50	169.27	28.1	0.00	0	172	26	0	0	16,684	3,452	780	10,900
46+75	78.87	28.1	14.51	0	115	26	7	0	16,799	3,461	780	10,980
47+00	83.26	28.1	7.10	0	75	26	10	0	16,874	3,475	780	11,016
47+25	79.23	28.1	13.10	0	75	26	9	0	16,949	3,487	780	11,053
47+50	74.10	28.1	12.52	0	71	26	12	0	17,020	3,503	780	11,082
47+75	72.82	28.1	12.65	0	68	26	12	0	17,088	3,518	780	11,108
48+00	76.78	28.1	13.58	0	69	26	12	0	17,157	3,534	780	11,136
48+25	76.50	28.1	14.83	0	71	26	13	0	17,228	3,552	780	11,163
48+50	77.94	28.1	20.91	0	72	26	17	0	17,300	3,574	780	11,186
48+75	78.15	28.1	51.04	0	72	26	33	0	17,372	3,618	780	11,188
49+00	76.90	28.1	61.21	0	72	26	52	0	17,444	3,687	780	11,165
49+25	83.21	28.1	65.08	0	74	26	58	0	17,518	3,765	780	11,135
49+50	79.89	28.1	65.82	0	76	26	61	0	17,593	3,846	780	11,104
49+75	75.52	28.1	68.23	0	72	26	62	0	17,665	3,928	780	11,068
50+00	74.24	28.1	67.78	0	69	26	63	0	17,735	4,012	780	11,027
50+25	71.98	28.1	67.89	0	68	26	63	0	17,802	4,096	780	10,985
50+50	72.71	28.1	67.62	0	67	26	63	0	17,869	4,179	780	10,943
50+75	79.12	28.1	68.31	0	70	26	63	0	17,940	4,263	780	10,903

Notes:	
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8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)
8 - Mass Ordinate	Mass Ordinate does not include Marsh

EARTHWORK - CTH LP

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut 1.00	Expanded Fill 1.33	Expanded Marsh Backfill 1.50	Mass Ordinate
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 8
51+00	71.62	28.1	68.86	0	70	26	64	0	18,009	4,347	780	10,863
51+25	68.13	28.1	68.99	0	65	26	64	0	18,074	4,432	780	10,817
51+50	66.27	28.1	69.47	0	62	26	64	0	18,136	4,517	780	10,768
51+75	64.02	28.1	72.38	0	60	26	66	0	18,197	4,605	780	10,715
52+00	62.81	28.1	70.80	0	59	26	66	0	18,255	4,693	780	10,659
52+25	60.07	28.1	70.82	0	57	26	66	0	18,312	4,780	780	10,603
52+50	66.81	28.1	70.07	0	59	26	65	0	18,371	4,867	780	10,549
52+75	57.41	28.1	66.61	0	58	26	63	0	18,429	4,951	780	10,496
53+00	48.52	28.1	69.67	0	49	26	63	0	18,478	5,035	780	10,435
53+25	52.85	28.1	66.93	0	47	26	63	0	18,525	5,119	780	10,372
53+50	59.50	28.1	58.12	0	52	26	58	0	18,577	5,196	780	10,321
53+75	67.45	28.1	51.87	0	59	26	51	0	18,635	5,264	780	10,286
54+00	81.36	28.1	48.03	0	69	26	46	0	18,704	5,325	780	10,267
54+25	73.33	28.1	47.70	0	72	26	44	0	18,776	5,384	780	10,254
54+50	76.54	28.1	46.73	0	69	26	44	0	18,845	5,442	780	10,239
54+75	78.62	28.1	46.36	0	72	26	43	0	18,917	5,500	780	10,228
55+00	79.91	28.1	47.63	0	73	26	44	0	18,990	5,557	780	10,217
55+25	79.86	28.1	49.13	0	74	26	45	0	19,064	5,617	780	10,206
55+50	77.07	28.1	52.21	0	73	26	47	0	19,137	5,679	780	10,190
55+75	75.85	28.1	55.00	0	71	26	50	0	19,208	5,745	780	10,169
56+00	74.60	28.1	57.79	0	70	26	52	0	19,277	5,815	780	10,143
56+25	81.89	28.1	60.80	0	72	26	55	0	19,350	5,888	780	10,116
56+50	83.34	28.1	21.86	0	76	26	38	0	19,426	5,939	780	10,116
56+75	82.41	28.1	21.34	0	77	26	20	0	19,503	5,965	780	10,140
57+00	81.83	28.1	19.75	0	76	26	19	0	19,579	5,991	780	10,165
57+25	83.01	28.1	18.86	0	76	26	18	0	19,656	6,015	780	10,191
57+50	130.29	28.1	3.82	0	99	26	11	0	19,754	6,028	780	10,250
57+75	132.91	28.1	3.39	0	122	26	3	0	19,876	6,033	780	10,341
58+00	86.38	28.1	24.76	0	102	26	13	0	19,978	6,050	780	10,399
58+25	85.12	28.1	10.89	0	79	26	17	0	20,057	6,072	780	10,431
58+50	93.77	28.1	15.00	0	83	26	12	0	20,140	6,088	780	10,472
58+75	103.31	28.1	10.45	0	91	26	12	0	20,231	6,104	780	10,521
59+00	104.54	28.1	8.16	0	96	26	9	0	20,327	6,115	780	10,580
59+25	120.57	28.1	6.13	0	104	26	7	0	20,432	6,124	780	10,649
59+50	133.43	28.1	5.00	0	118	26	5	0	20,549	6,131	780	10,734
59+75	153.28	28.1	0.58	0	133	26	3	0	20,682	6,134	780	10,837
60+00	165.90	28.1	0.00	0	148	26	0	0	20,830	6,135	780	10,959
60+25	177.44	28.1	0.00	0	159	26	0	0	20,989	6,135	780	11,092
60+50	191.23	28.1	0.32	0	171	26	0	0	21,159	6,135	780	11,236
60+75	207.82	28.1	0.00	0	185	26	0	0	21,344	6,135	780	11,395

Notes:	
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8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)
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EARTHWORK - CTH LP

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut 1.00	Expanded Fill 1.33	Expanded Marsh Backfill 1.50	Mass Ordinate
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 8
61+00	198.41	28.1	0.00	0	188	26	0	0	21,532	6,135	780	11,557
61+25	201.78	28.1	0.00	0	185	26	0	0	21,717	6,135	780	11,716
61+50	202.70	28.1	2.08	0	187	26	1	0	21,905	6,136	780	11,876
61+65	229.27	28.1	0.00	0	120	16	1	0	22,025	6,137	780	11,980
61+75	224.73	28.1	0.00	0	84	10	0	0	22,109	6,137	780	12,053
62+00	221.92	28.1	0.00	0	207	26	0	0	22,315	6,137	780	12,234
62+25	195.16	28.1	0.10	0	193	26	0	0	22,509	6,137	780	12,401
62+50	165.49	28.1	16.18	0	167	26	8	0	22,676	6,147	780	12,532
62+75	172.19	28.1	12.34	0	156	26	13	0	22,832	6,165	780	12,645
63+00	175.57	28.1	11.65	0	161	26	11	0	22,993	6,180	780	12,765
63+25	177.63	28.1	12.08	0	164	26	11	0	23,156	6,194	780	12,888
63+50	207.93	28.1	5.56	0	179	26	8	0	23,335	6,205	780	13,029
63+60	223.35	28.1	5.21	0	80	10	2	0	23,415	6,208	780	13,096
63+75	180.41	28.1	8.64	0	112	16	4	0	23,527	6,213	780	13,188
64+00	173.05	28.1	12.28	0	164	26	10	0	23,691	6,226	780	13,312
64+25	171.02	20.1	11.71	0	159	22	11	0	23,850	6,240	780	13,435
64+50	179.52	20.1	7.43	0	162	19	9	0	24,012	6,252	780	13,567
64+75	200.49	20.1	8.35	0	176	19	7	0	24,188	6,262	780	13,714
65+00	164.45	20.1	13.71	0	169	19	10	0	24,357	6,276	780	13,851
65+25	157.74	20.1	23.40	0	149	19	17	0	24,506	6,298	780	13,959
65+50	157.20	20.1	14.63	0	146	19	18	0	24,652	6,322	780	14,062
65+75	154.69	20.1	15.87	0	144	19	14	0	24,796	6,341	780	14,169
66+00	152.64	20.1	17.05	0	142	19	15	0	24,939	6,361	780	14,273
66+25	148.52	20.1	18.53	0	139	19	16	0	25,078	6,383	780	14,372
66+50	144.50	20.1	20.05	0	136	19	18	0	25,214	6,407	780	14,465
66+75	139.58	20.1	21.41	0	132	19	19	0	25,345	6,432	780	14,552
67+00	139.31	20.1	23.44	0	129	19	21	0	25,474	6,460	780	14,635
67+25	144.44	20.1	23.12	0	131	19	22	0	25,606	6,488	780	14,719
67+50	215.91	20.1	0.00	0	167	19	11	0	25,773	6,503	780	14,853
67+75	142.30	20.1	18.69	0	166	19	9	0	25,938	6,514	780	14,989
68+00	117.77	20.1	36.70	0	120	19	26	0	26,059	6,548	780	15,057
68+25	114.47	20.1	43.55	0	108	19	37	0	26,166	6,598	780	15,096
68+50	112.57	20.1	52.14	0	105	19	44	0	26,271	6,657	780	15,124
68+75	111.00	20.1	46.18	0	104	19	46	0	26,375	6,717	780	15,148
69+00	106.80	20.1	45.33	0	101	19	42	0	26,476	6,773	780	15,174
69+25	105.59	20.1	51.44	0	98	19	45	0	26,574	6,833	780	15,194
69+50	104.52	20.1	54.67	0	97	19	49	0	26,671	6,898	780	15,207
69+75	92.93	20.1	70.86	0	91	19	58	0	26,763	6,976	780	15,203
70+00	79.90	20.1	64.05	0	80	19	62	0	26,843	7,059	780	15,181
70+25	77.58	20.1	70.55	0	73	19	62	0	26,916	7,142	780	15,153

Notes:	
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EARTHWORK - CTH LP

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut 1.00	Expanded Fill 1.33	Expanded Marsh Backfill 1.50	Mass Ordinate
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 8
70+50	76.06	20.1	81.50	0	71	19	70	0	26,987	7,235	780	15,112
70+75	73.79	20.1	93.61	0	69	19	81	0	27,056	7,343	780	15,055
71+00	70.46	20.1	100.87	0	67	19	90	0	27,123	7,463	780	14,983
71+25	65.87	20.1	104.61	0	63	19	95	0	27,186	7,589	780	14,901
71+50	59.77	20.1	97.93	0	58	19	94	0	27,244	7,714	780	14,816
71+75	52.92	20.1	128.78	0	52	19	105	0	27,296	7,854	780	14,710
72+00	40.85	20.1	66.05	0	43	19	90	0	27,340	7,974	780	14,615
72+18.37 ROUNDABOUT	32.03	20.1	30.78	0	25	14	33	0	27,365	8,017	780	14,582
73+50.43	14.38	20.1	16.34	0	0	0	0	0	27,365	8,017	780	14,582
73+75	19.14	20.1	10.23	0	15	18	12	0	27,380	8,033	780	14,563
74+00	94.13	20.1	13.27	0	52	19	11	0	27,432	8,048	780	14,582
74+25	129.55	20.1	4.58	0	104	19	8	0	27,536	8,059	780	14,656
74+50	176.13	20.1	4.66	0	142	19	4	0	27,677	8,065	780	14,773
74+75	210.70	20.1	5.82	0	179	19	5	0	27,857	8,071	780	14,927
75+00	252.92	20.1	4.80	0	215	19	5	0	28,071	8,078	780	15,117
75+25	241.68	20.1	3.36	0	229	19	4	0	28,300	8,083	780	15,322
75+50	228.35	20.1	3.56	0	218	19	3	0	28,518	8,087	780	15,517
75+75	228.82	20.1	2.95	0	212	19	3	0	28,729	8,091	780	15,706
76+00	246.53	20.1	2.88	0	220	19	3	0	28,949	8,094	780	15,904
76+25	248.16	20.1	3.34	0	229	19	3	0	29,178	8,098	780	16,110
76+50	242.62	20.1	6.17	0	227	19	4	0	29,406	8,104	780	16,313
76+75	244.04	20.1	5.11	0	225	19	5	0	29,631	8,111	780	16,513
77+00	241.57	20.1	10.03	0	225	19	7	0	29,856	8,120	780	16,710
77+25	246.18	20.1	11.16	0	226	19	10	0	30,082	8,133	780	16,904
77+50	247.93	20.1	10.31	0	229	19	10	0	30,310	8,147	780	17,101
77+75	247.76	20.1	8.84	0	229	19	9	0	30,540	8,159	780	17,300
78+00	248.13	20.1	6.55	0	230	19	7	0	30,769	8,168	780	17,501
78+25	249.84	20.1	4.93	0	231	19	5	0	31,000	8,175	780	17,706
78+50	248.42	20.1	5.00	0	231	19	5	0	31,231	8,181	780	17,912
78+75	246.03	20.1	6.01	0	229	19	5	0	31,460	8,188	780	18,116
79+00	246.80	20.1	6.48	0	228	19	6	0	31,688	8,196	780	18,318
79+25	247.13	20.1	5.88	0	229	19	6	0	31,916	8,203	780	18,520
79+50	247.12	20.1	5.54	0	229	19	5	0	32,145	8,210	780	18,723
79+75	244.49	20.1	6.54	0	228	19	6	0	32,373	8,218	780	18,925
80+00	240.67	20.1	7.65	0	225	19	7	0	32,597	8,226	780	19,122
80+25	240.27	20.1	4.57	0	223	19	6	0	32,820	8,234	780	19,319
80+50	241.34	20.1	3.73	0	223	19	4	0	33,043	8,239	780	19,518
80+75	247.04	20.1	2.02	0	226	19	3	0	33,269	8,243	780	19,722
81+00	249.46	20.1	1.56	0	230	19	2	0	33,499	8,245	780	19,931

Notes:	
1 - Cut	Cut includes existing asphalt and base materia
2 - Unusable Pavement Material	Does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Material
4 - Expanded Marsh Backfill	Will be backfilled with Select Borrow
8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)
8 - Mass Ordinate	Mass Ordinate does not include Marsh

EARTHWORK - CTH LP

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			Mass Ordinate
	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut 1.00	Expanded Fill 1.33	Expanded Marsh Backfill 1.50	
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 8
81+25	252.41	28.1	1.44	0	232	22	1	0	33,731	8,247	780	20,139
81+50	255.60	28.1	1.49	0	235	26	1	0	33,967	8,248	780	20,346
81+75	257.47	28.1	1.39	0	238	26	1	0	34,204	8,250	780	20,556
82+00	257.94	28.1	1.50	0	239	26	1	0	34,443	8,252	780	20,767
82+25	259.58	28.1	1.95	0	240	26	2	0	34,682	8,254	780	20,978
82+50	261.82	28.1	2.84	0	241	26	2	0	34,924	8,257	780	21,191
82+75	264.79	28.1	2.75	0	244	26	3	0	35,167	8,261	780	21,405
83+00	266.99	28.1	2.36	0	246	26	2	0	35,414	8,264	780	21,622
83+25	265.78	28.1	1.95	0	247	26	2	0	35,660	8,266	780	21,840
83+50	262.19	28.1	2.41	0	244	26	2	0	35,905	8,269	780	22,056
83+75	255.73	28.1	3.77	0	240	26	3	0	36,145	8,273	780	22,266
84+00	248.66	28.1	5.98	0	234	26	5	0	36,378	8,279	780	22,467
84+25	243.08	28.1	9.16	0	228	26	7	0	36,606	8,288	780	22,660
84+50	237.27	28.1	10.40	0	222	26	9	0	36,828	8,300	780	22,844
84+75	233.25	28.1	11.57	0	218	26	10	0	37,046	8,314	780	23,022
85+00	228.49	28.1	12.45	0	214	26	11	0	37,260	8,329	780	23,195
85+25	224.22	28.1	14.27	0	210	26	12	0	37,469	8,345	780	23,362
85+50	229.19	28.1	20.27	0	210	26	16	0	37,679	8,366	780	23,525
85+75	283.92	28.1	0.00	0	238	26	9	0	37,917	8,379	780	23,724
86+00	397.23	28.1	0.00	0	315	26	0	0	38,232	8,379	780	24,013
86+25	391.79	28.1	0.00	0	365	26	0	0	38,597	8,379	780	24,353
86+50	322.97	28.1	0.00	0	331	26	0	0	38,928	8,379	780	24,658
86+75	236.67	28.1	1.79	0	259	26	1	0	39,187	8,380	780	24,889
87+00	187.81	28.1	46.06	0	197	26	22	0	39,384	8,409	780	25,031
87+25	180.58	28.1	35.85	0	171	26	38	0	39,554	8,460	780	25,125
87+50	178.23	28.1	33.10	0	166	26	32	0	39,721	8,502	780	25,222
87+75	177.04	28.1	27.71	0	164	26	28	0	39,885	8,540	780	25,323
88+00	175.30	28.1	21.00	0	163	26	23	0	40,048	8,570	780	25,430
88+25	174.85	28.1	18.57	0	162	26	18	0	40,210	8,594	780	25,542
88+50	176.46	28.1	16.68	0	163	26	16	0	40,373	8,616	780	25,657
88+75	177.67	28.1	15.84	0	164	26	15	0	40,537	8,636	780	25,775
89+00	179.71	28.1	16.87	0	165	26	15	0	40,702	8,656	780	25,894
89+25	181.30	28.1	17.81	0	167	26	16	0	40,869	8,677	780	26,014
89+50	181.80	28.1	24.36	0	168	26	20	0	41,038	8,703	780	26,130
89+75	182.55	28.1	30.05	0	169	26	25	0	41,206	8,737	780	26,239
90+00	183.25	28.1	34.40	0	169	26	30	0	41,376	8,776	780	26,343
90+25	186.98	28.1	18.50	0	171	26	24	0	41,547	8,809	780	26,456
90+50	214.17	28.1	8.36	0	186	26	12	0	41,733	8,825	780	26,599
90+75	181.03	28.1	38.95	0	183	26	22	0	41,916	8,855	780	26,727
91+00	172.74	28.1	45.33	0	164	26	39	0	42,079	8,907	780	26,813

Notes:	
1 - Cut	Cut includes existing asphalt and base materia
2 - Unusable Pavement Material	Does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Material
4 - Expanded Marsh Backfill	Will be backfilled with Select Borrow
8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)
8 - Mass Ordinate	Mass Ordinate does not include Marsh

EARTHWORK - CTH LP

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut	Unusable Pavement Material	Fill	Marsh Exc	Cut	Expanded Fill	Expanded Marsh Backfill	Mass Ordinate
									1.00	1.33	1.50	
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 8
91+25	175.62	28.1	49.04	0	161	26	44	0	42,241	8,965	780	26,890
91+50	178.91	28.1	49.04	0	164	26	45	0	42,405	9,025	780	26,967
91+75	180.34	28.1	49.94	0	166	26	46	0	42,571	9,086	780	27,047
92+00	179.48	28.1	53.08	0	167	26	48	0	42,738	9,149	780	27,124
92+25	177.46	28.1	58.64	0	165	26	52	0	42,903	9,218	780	27,194
92+50	175.35	28.1	60.27	0	163	26	55	0	43,066	9,291	780	27,258
92+75	172.12	28.1	61.12	0	161	26	56	0	43,227	9,366	780	27,319
93+00	165.94	28.1	54.17	0	157	26	53	0	43,384	9,437	780	27,378
93+25	157.19	28.1	46.83	0	150	26	47	0	43,533	9,499	780	27,439
93+50	148.38	28.1	45.70	0	141	26	43	0	43,675	9,556	780	27,498
93+75	141.38	28.1	44.55	0	134	26	42	0	43,809	9,612	780	27,550
94+00	134.55	28.1	42.72	0	128	26	40	0	43,937	9,666	780	27,598
94+25	126.67	28.1	40.41	0	121	26	38	0	44,058	9,717	780	27,642
94+50	134.15	28.1	28.73	0	121	26	32	0	44,178	9,759	780	27,694
94+75	128.49	28.1	27.88	0	122	26	26	0	44,300	9,794	780	27,755
95+00	108.44	28.1	20.93	0	110	26	23	0	44,410	9,824	780	27,809
95+25	123.25	28.1	4.31	0	107	26	12	0	44,517	9,840	780	27,874
					44,517	6,803	7,398	520				

Notes:	
1 - Cut	Cut includes existing asphalt and base materia
2 - Unusable Pavement Material	Does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Material
4 - Expanded Marsh Backfill	Will be backfilled with Select Borrow
8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)
8 - Mass Ordinate	Mass Ordinate does not include Marsh

EARTHWORK - COMMUNITY WAY

STATION	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
	Cut	Unusable Pavement Material	Fill	Cut	Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.33	Mass Ordinate
				Note 1	Note 2	Note 3	Note 1		Note 8
99+00	59.75	0.0	2.99	0	0	0	0	0	0
99+25	88.33	0.0	0.00	69	0	1	69	2	67
99+50	124.78	0.0	0.00	99	0	0	167	2	165
				167	0	1			

EARTHWORK - SONNY DRIVE

STATION	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
	Cut	Unusable Pavement Material	Fill	Cut	Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.33	Mass Ordinate
				Note 1	Note 2	Note 3	Note 1		Note 8
198+80	105.12	18.2	0.06	0	0	0	0	0	0
199+00	149.20	19.8	0.00	94	14	0	94	0	80
199+25	182.26	21.8	0.00	153	19	0	248	0	214
199+48.75 INTERSECTION	212.70	25.1	0.72	174	21	0	421	0	367
200+66.22	195.17	18.2	57.30	0	0	0	421	0	367
200+75	175.16	17.8	37.64	60	6	15	482	21	401
201+00	133.64	15.8	2.75	143	16	19	625	46	503
201+25	106.64	13.9	0.20	111	14	1	736	48	599
201+44	90.68	13.2	0.46	69	10	0	805	48	659
				805	99	36			

Notes:	
1 - Cut	Cut includes existing asphalt and base material
2 - Unusable Pavement Material	Does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Material
8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)

EARTHWORK - VILLA WAY

STATION	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
	Cut	Unusable Pavement Material	Fill	Cut	Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.33	Mass Ordinate
				Note 1	Note 2	Note 3	Note 1		Note 8
298+35	72.00	10.6	0.18	0	0	0	0	0	0
298+50	70.04	11.2	0.77	39	6	0	39	0	33
298+75	80.77	12.5	1.24	70	11	1	109	2	91
299+00	82.97	14.9	3.15	76	13	2	185	4	151
299+25	79.35	16.8	7.64	75	15	5	260	11	205
299+38.76	74.40	18.2	10.16	39	9	5	299	17	229
				299	53	13			

EARTHWORK - WOODLAND ROAD

STATION	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
	Cut	Unusable Pavement Material	Fill	Cut	Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.33	Mass Ordinate
				Note 1	Note 2	Note 3	Note 1		Note 8
300+66.46	101.93	16.8	13.83	0	0	0	0	0	0
300+75	102.55	16.2	11.71	32	5	4	32	5	22
301+00	98.72	14.9	11.57	93	14	11	126	20	86
301+25	94.86	13.2	13.22	90	13	11	215	35	148
301+50	83.87	12.2	14.94	83	12	13	298	52	201
301+70.00	73.54	12.2	0.00	58	9	6	356	60	243
				356	53	45			

EARTHWORK - WINNEPEG STREET

STATION	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
	Cut	Unusable Pavement Material	Fill	Cut	Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.33	Mass Ordinate
				Note 1	Note 2	Note 3	Note 1		Note 8
398+35	28.30	9.2	0.29	0	0	0	0	0	0
398+50	47.99	9.9	0.39	21	5	0	21	0	16
398+75	73.49	10.9	0.53	56	10	0	77	1	62
399+00	87.40	12.9	0.55	74	11	1	152	1	124
399+25	77.47	14.5	5.48	76	13	3	228	5	184
399+49.03	76.67	17.8	8.15	69	14	6	297	13	231
				297	53	10			

Notes:	
1 - Cut	Cut includes existing asphalt and base material
2 - Unusable Pavement Material	Does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Material
8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)

EARTHWORK - MANITOWOC ROAD

STATION	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
	Cut	Unusable Pavement Material	Fill	Cut	Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.33	Mass Ordinate
				Note 1	Note 2	Note 3	Note 1		Note 8
494+75	54.38	13.0	0.44	0	0	0	0	0	0
495+00	55.27	13.0	4.50	51	12	2	51	3	36
495+25	55.53	13.0	5.60	51	12	5	102	9	69
495+50	55.96	13.0	6.11	52	12	5	154	16	101
495+75	58.56	13.0	6.08	53	12	6	207	24	135
496+00	72.39	13.0	0.01	61	12	3	267	28	179
496+25	51.87	13.0	12.66	58	12	6	325	36	217
496+50	48.38	13.0	18.04	46	12	14	371	54	233
496+75	55.57	13.0	20.96	48	12	18	419	78	245
497+00	55.40	13.0	44.04	51	12	30	471	118	244
497+25	54.96	13.0	30.04	51	12	34	522	164	237
497+50	57.68	13.0	18.84	52	12	23	574	194	247
497+75	65.95	13.0	22.31	57	12	19	631	220	267
498+00	83.89	13.0	9.07	69	12	15	701	239	305
498+25	85.39	13.0	4.59	78	12	6	779	247	363
498+50	68.42	13.0	8.64	71	12	6	850	255	414
498+75	62.57	13.0	27.08	61	12	17	911	277	441
499+00	64.83	13.0	43.92	59	12	33	970	321	444
499+25	19.48	13.0	43.16	39	12	40	1,009	375	417
499+29.21	18.75	13.0	46.06	3	2	7	1,012	384	409
ROUNDABOUT									
500+61.36	39.32	13.0	40.98	0	0	0	1,012	384	409
500+75	52.50	13.0	46.37	23	7	22	1,035	414	396
501+00	111.30	13.0	14.69	76	12	28	1,111	451	422
501+25	135.64	13.0	2.81	114	12	8	1,225	462	514
501+50	142.84	13.0	0.07	129	12	1	1,354	464	629
501+75	156.91	13.0	0.00	139	12	0	1,493	464	756
502+00	161.81	13.0	0.00	148	12	0	1,640	464	891
502+25	159.12	13.0	0.00	149	12	0	1,789	464	1,028
502+50	150.33	13.0	0.00	143	12	0	1,932	464	1,159
502+75	134.26	13.0	0.00	132	12	0	2,064	464	1,279
503+00	126.26	13.0	0.16	121	12	0	2,185	464	1,387
503+25	132.40	13.0	0.00	120	12	0	2,304	464	1,495
503+50	106.04	13.0	0.00	110	12	0	2,415	464	1,593
503+75	80.41	13.0	14.72	86	12	7	2,501	473	1,658
504+00	69.33	13.0	21.60	69	12	17	2,570	495	1,693
504+25	71.08	13.0	22.76	65	12	21	2,635	523	1,719
504+50	71.42	13.0	21.93	66	12	21	2,701	550	1,745
504+75	66.06	13.0	13.60	64	12	16	2,765	572	1,775
505+00	73.32	13.0	8.78	65	12	10	2,830	586	1,814
505+25	54.33	13.0	6.27	59	12	7	2,889	595	1,852
505+45	57.27	13.0	0.74	41	10	1	2,930	596	1,883
				2,930	452	448			

Notes:	
1 - Cut	Cut includes existing asphalt and base material
2 - Unusable Pavement Material	Does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Material
8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)

PROJECT NUMBER: 4992-00-56	HWY: CTH LP	COUNTY: CALUMET	COMPUTER EARTHWORK DATA	SHEET NO: 253	E

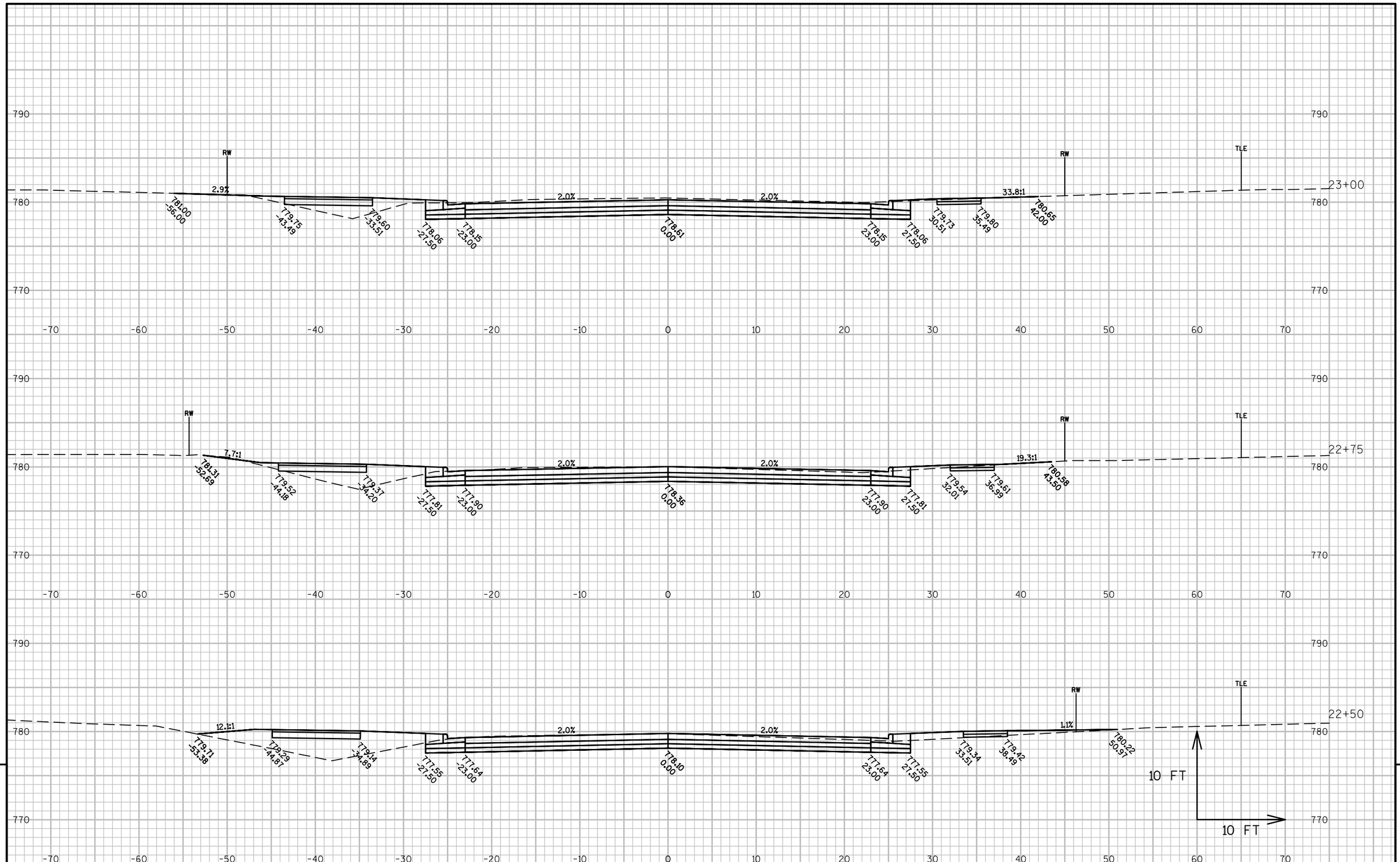
EARTHWORK - RAB CIRCLE

STATION	AREA (SF) Cut	AREA (SF) Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 8
0+00	34.05	13.0	98.95	0	0	0	0	0	0
0+25	42.17	13.0	154.08	35	12	117	35	156	-133
0+50	47.94	13.0	86.34	42	12	111	77	304	-251
0+75	62.45	13.0	80.31	51	12	77	128	406	-314
1+00	71.85	13.0	116.24	62	12	91	190	527	-385
1+25	85.85	13.0	78.30	73	12	90	263	647	-444
1+50	61.79	13.0	84.62	68	12	75	332	748	-488
1+75	25.19	13.0	100.45	40	12	86	372	862	-574
2+00	24.05	13.0	103.90	23	12	95	395	987	-689
2+25	63.55	13.0	83.38	41	12	87	435	1,103	-776
2+50	61.04	13.0	89.78	58	12	80	493	1,209	-837
2+75	56.32	13.0	113.56	54	12	94	547	1,335	-920
3+00	38.48	13.0	98.85	44	12	98	591	1,465	-1,019
				591	144	1,102			

EARTHWORK - ETHAN DRIVE

STATION	AREA (SF) Cut	AREA (SF) Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 8
598+25	60.47	9.9	2.41	0	0	0	0	0	0
598+50	66.00	10.6	1.95	59	9	2	59	3	46
598+75	82.52	11.6	0.00	69	10	1	127	4	104
599+00	112.53	13.5	0.00	90	12	0	218	4	182
599+25	152.27	15.2	0.00	123	13	0	340	4	292
599+44.77 INTERSECTION	188.61	17.5	0.00	125	12	0	465	4	404
600+65.67	165.67	14.9	0.00	0	0	0	465	4	404
600+75	143.34	14.2	0.00	53	5	0	518	4	453
601+00	96.77	12.5	0.00	111	12	0	630	4	552
601+25	64.55	10.6	3.73	75	11	2	704	6	613
				704	85	5			

Notes:	
1 - Cut	Cut includes existing asphalt and base material
2 - Unusable Pavement Material	Does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Material
8 - Mass Ordinate	Cut - Unusable Pavement - (Fill * Fill Factor)

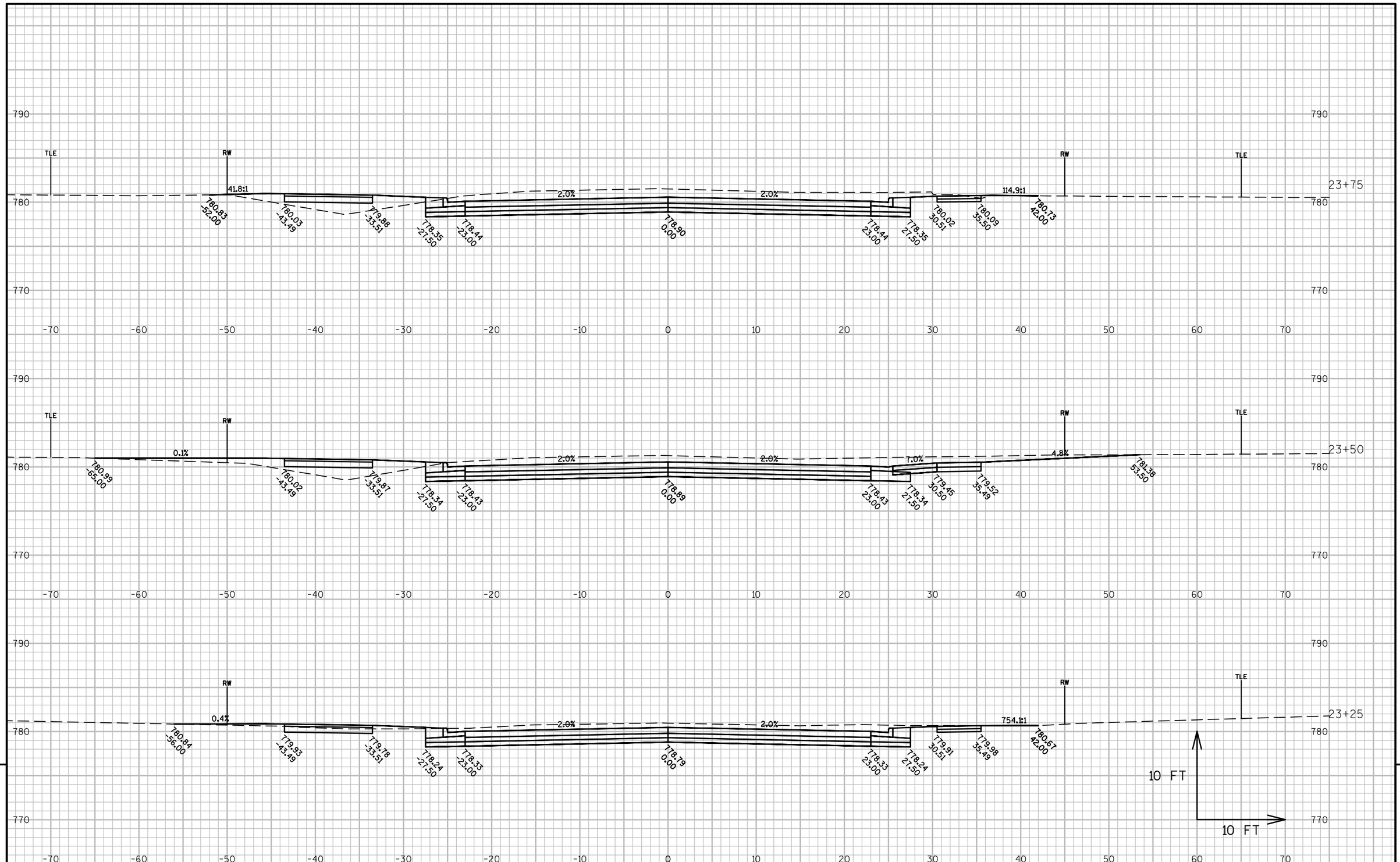


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 255	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (1)

PLOT DATE : 4/2/2018 2:59 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

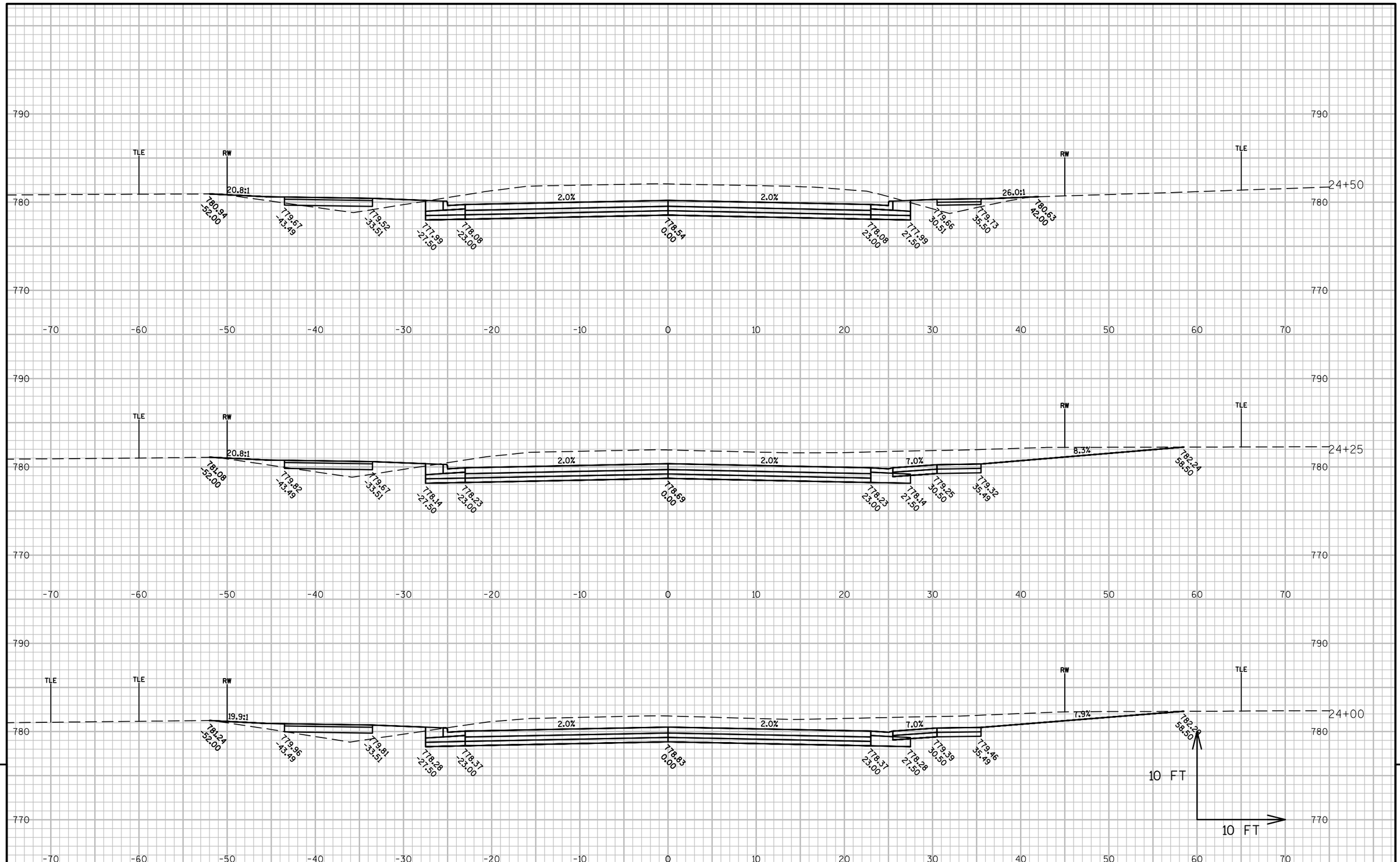


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 256	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (2)

PLOT DATE : 4/2/2018 2:59 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



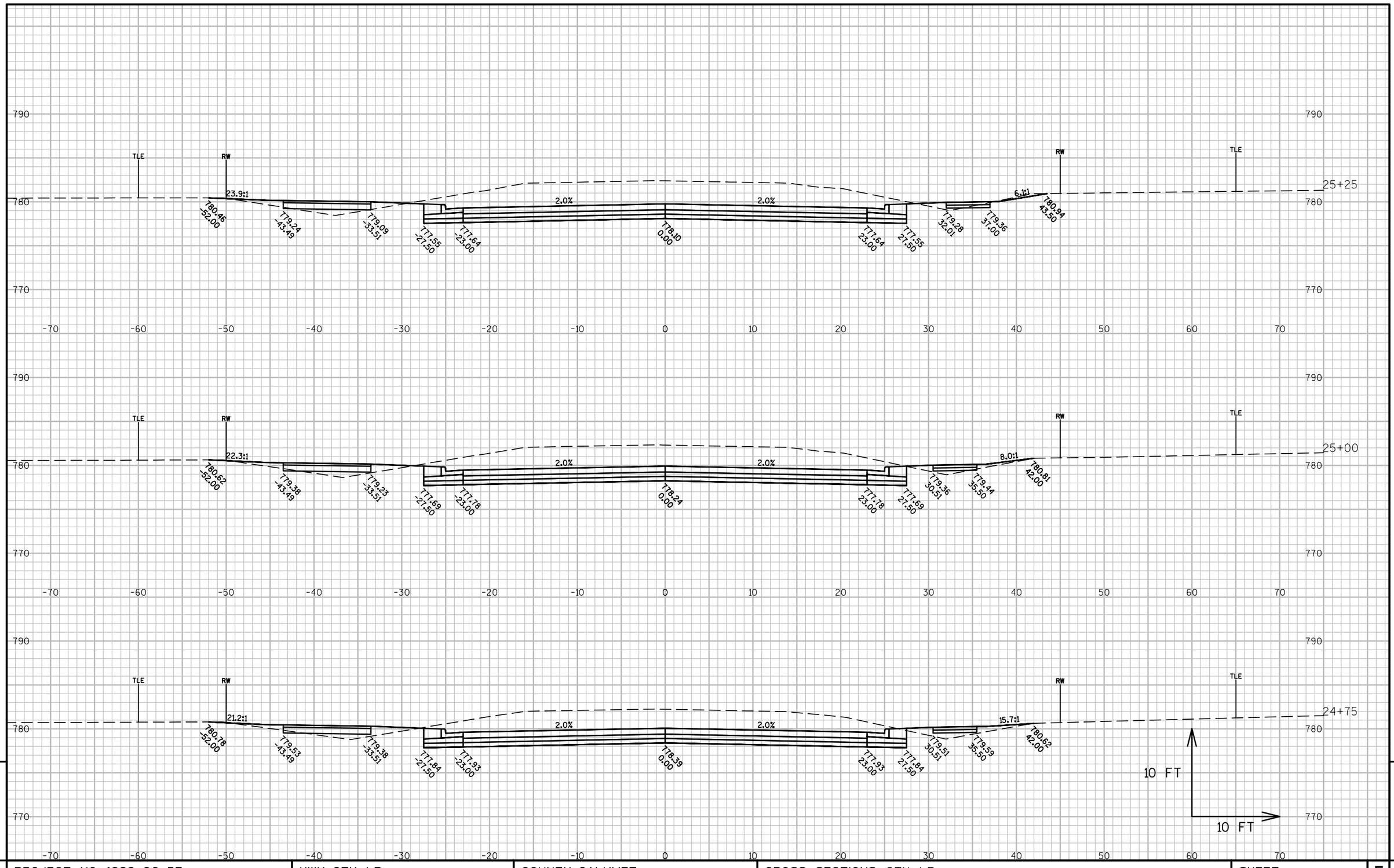
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9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 257	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (3)

PLOT DATE : 4/2/2018 3:00 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

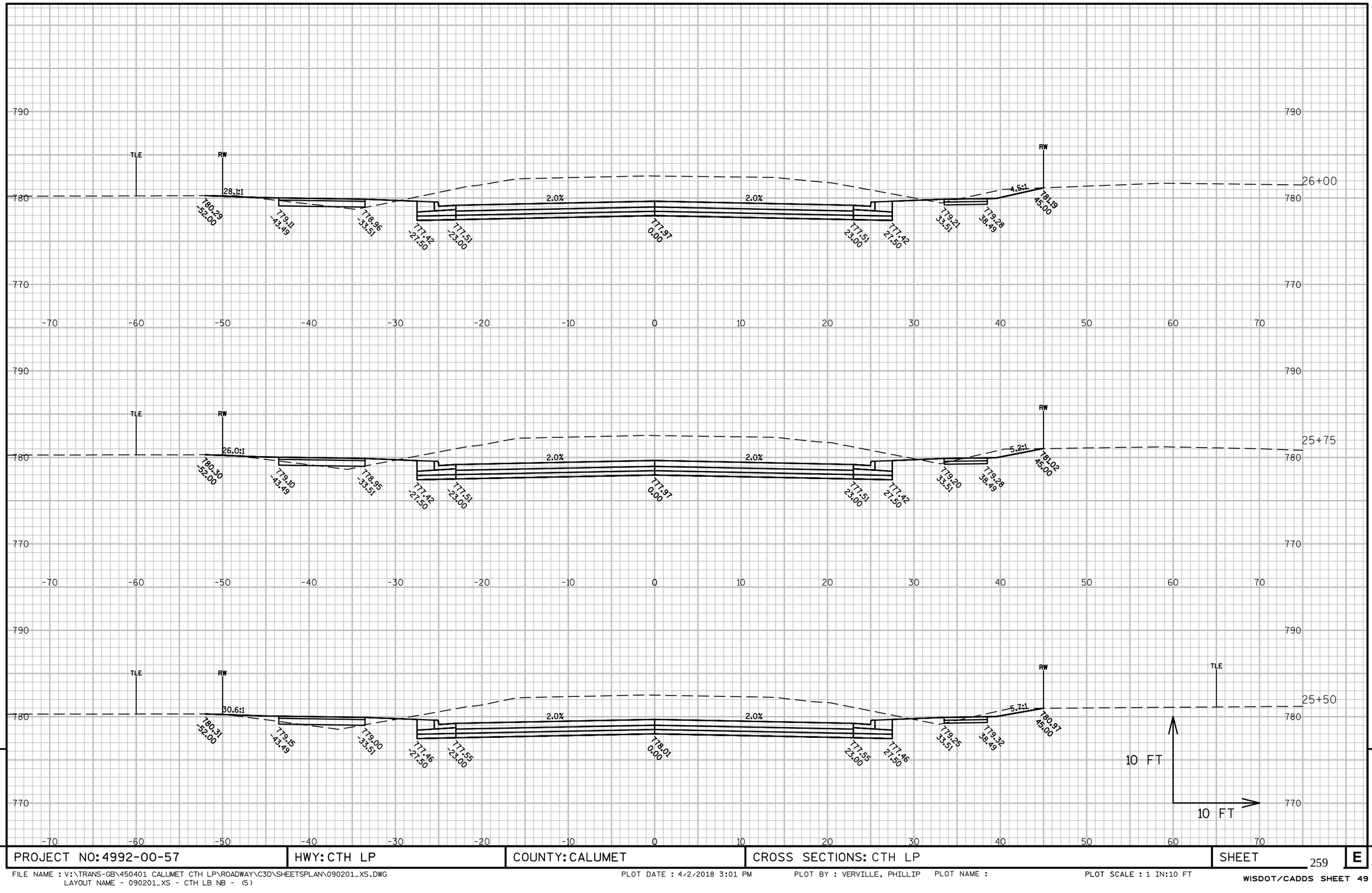
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 258	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (4)

PLOT DATE : 4/2/2018 3:00 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

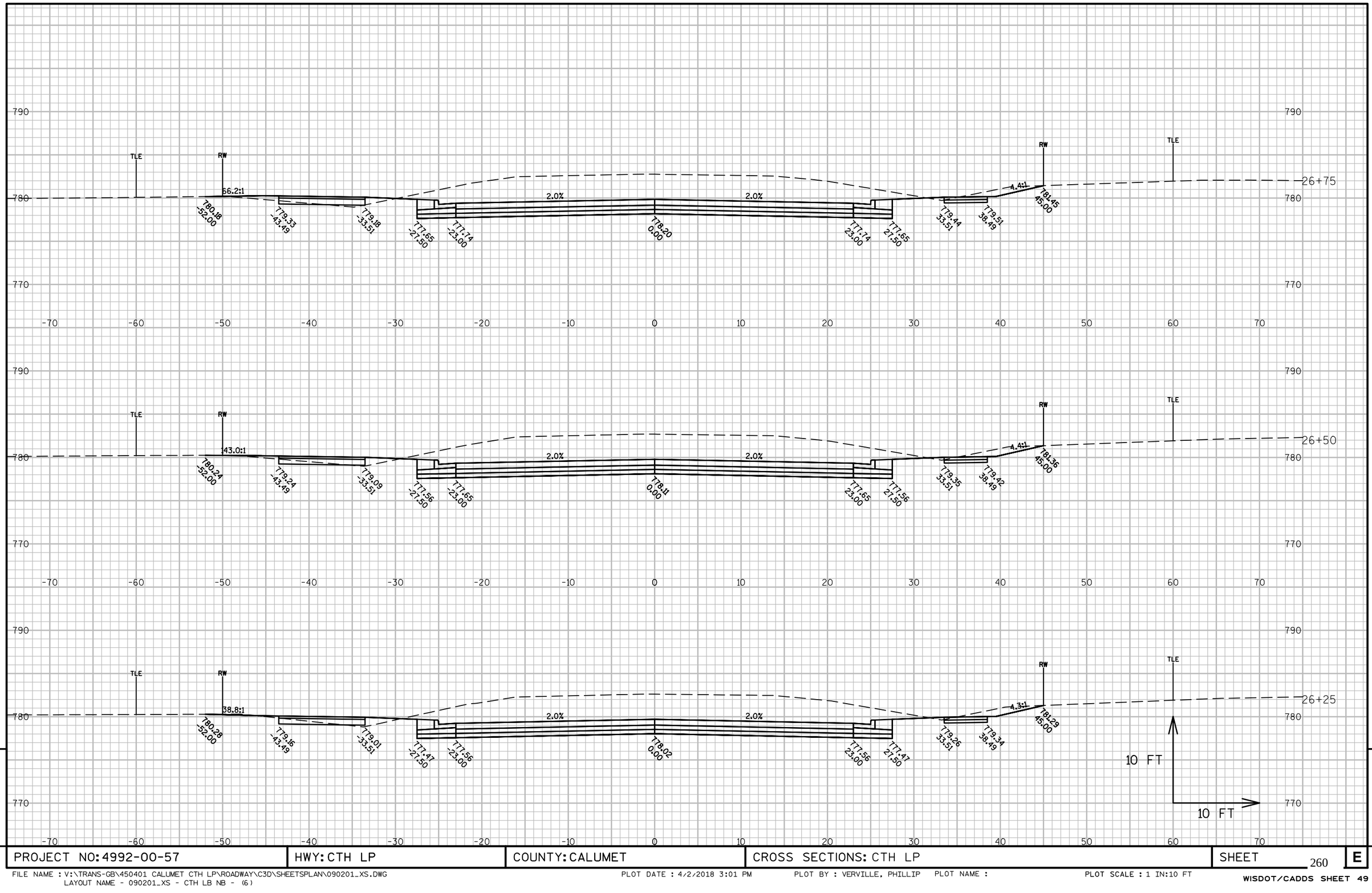


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 259	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (5)

PLOT DATE : 4/2/2018 3:01 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

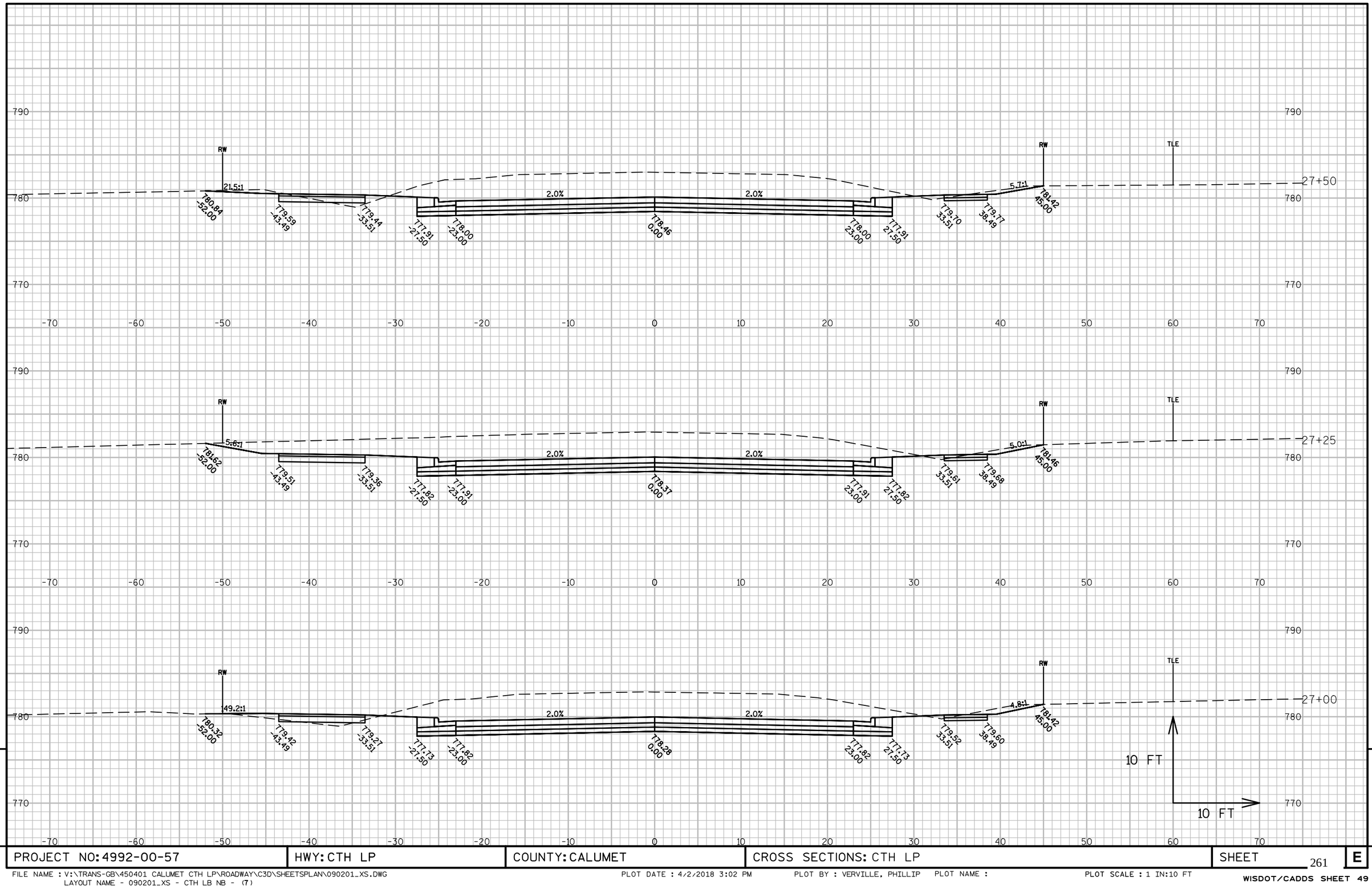


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 260	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (6)

PLOT DATE : 4/2/2018 3:01 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

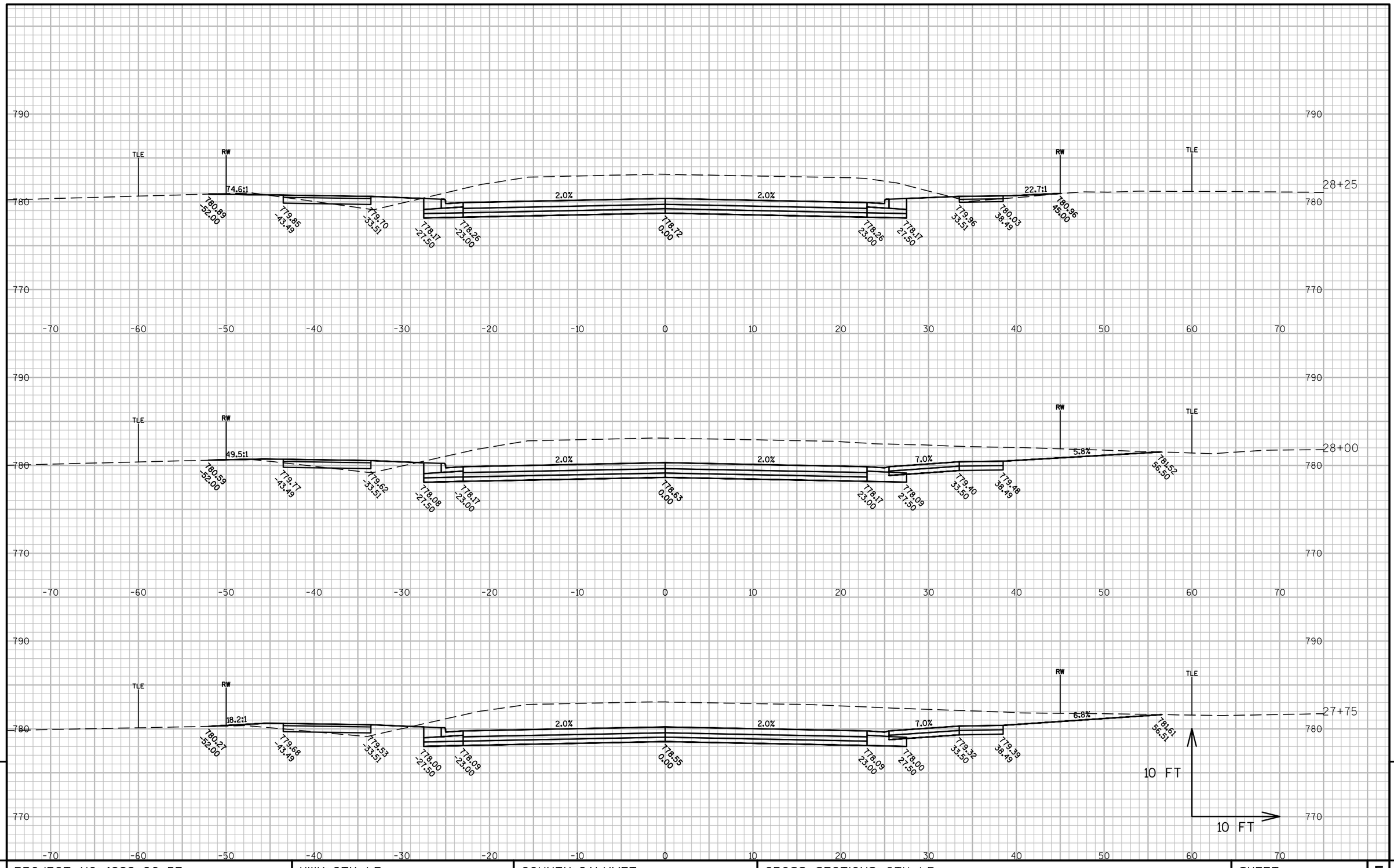
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 261	E



9

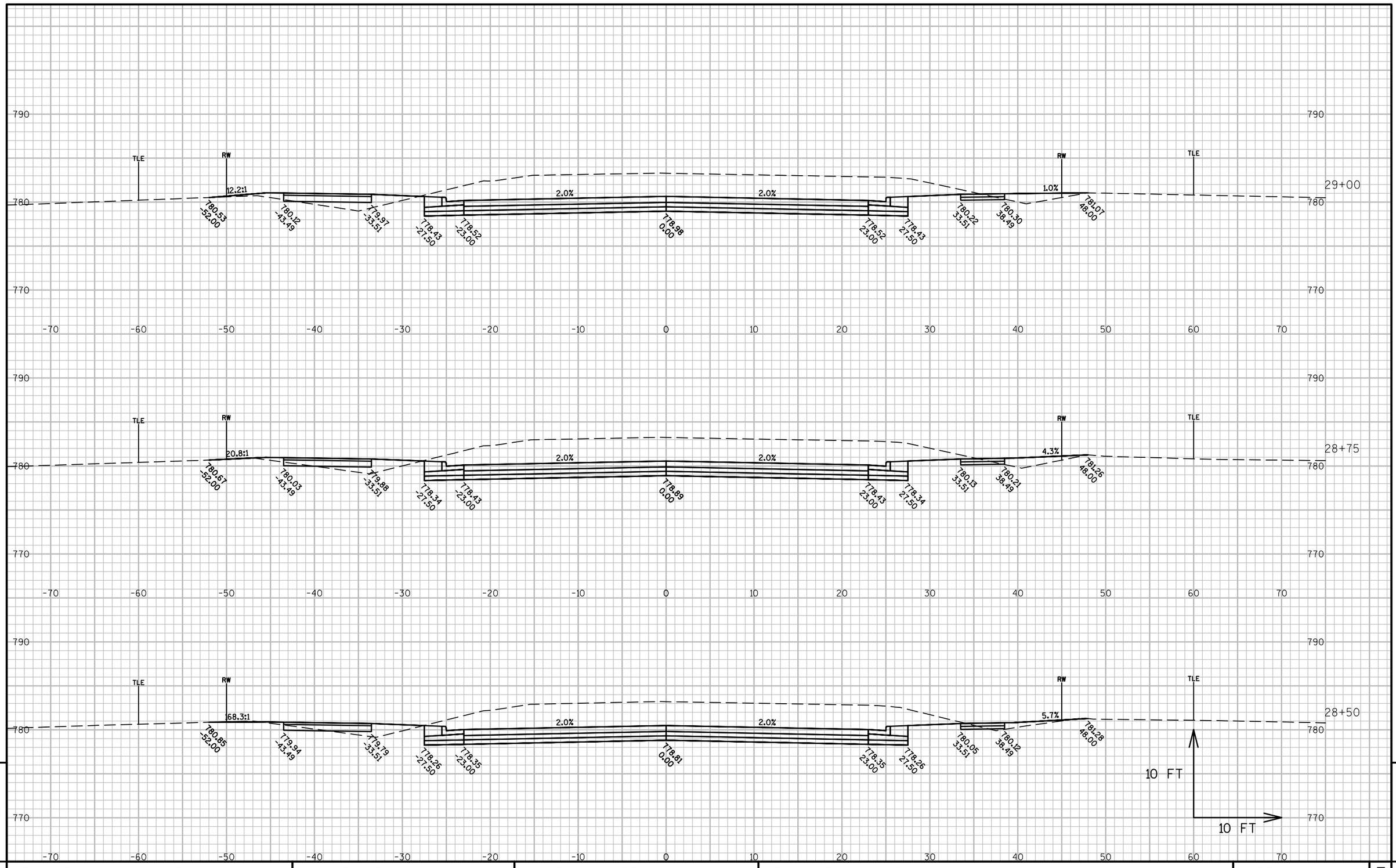
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 262	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (8)

PLOT DATE : 4/2/2018 3:02 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



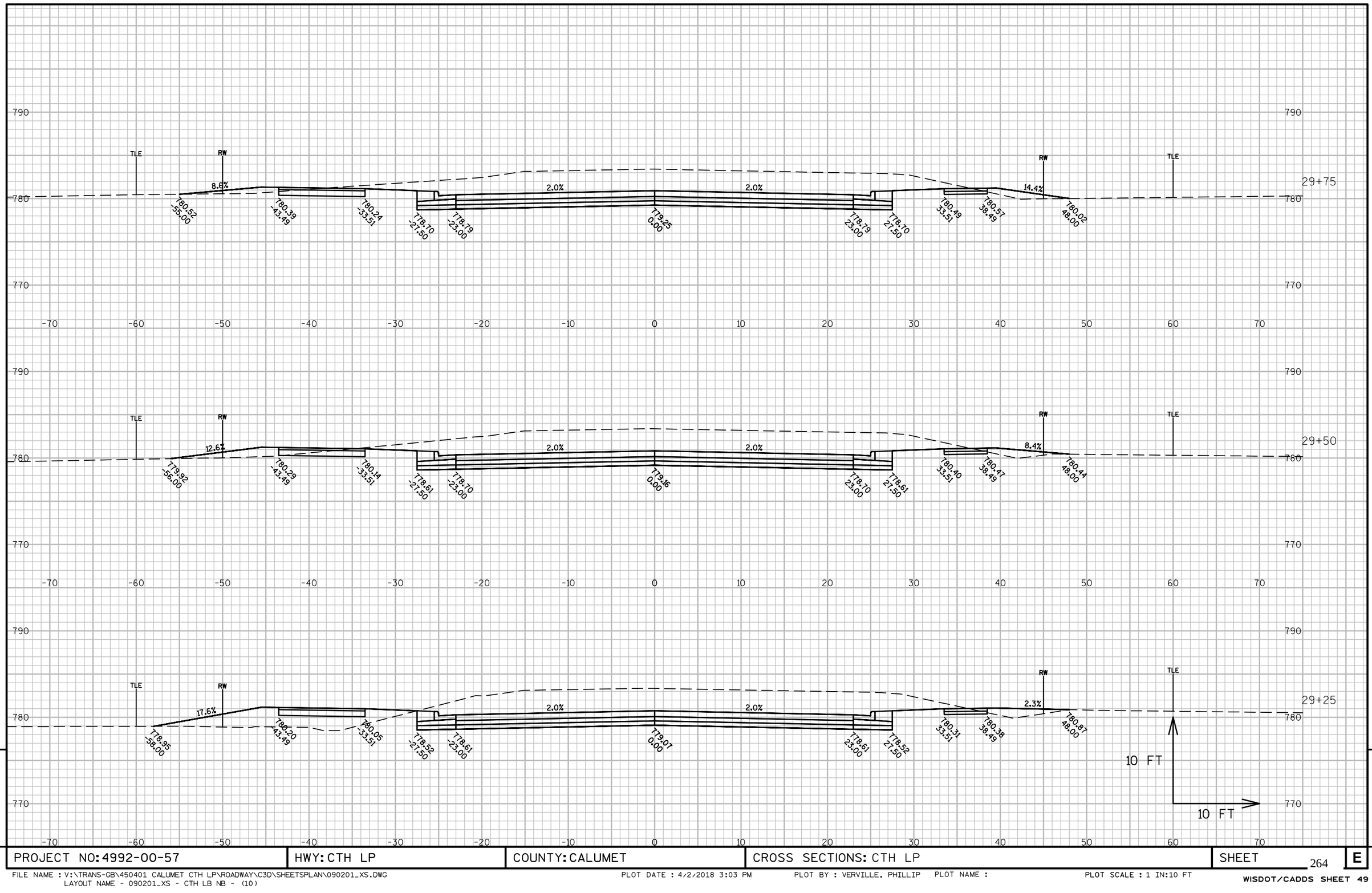
9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 263	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (9)

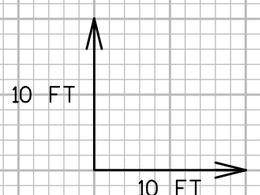
PLOT DATE : 4/2/2018 3:03 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

9

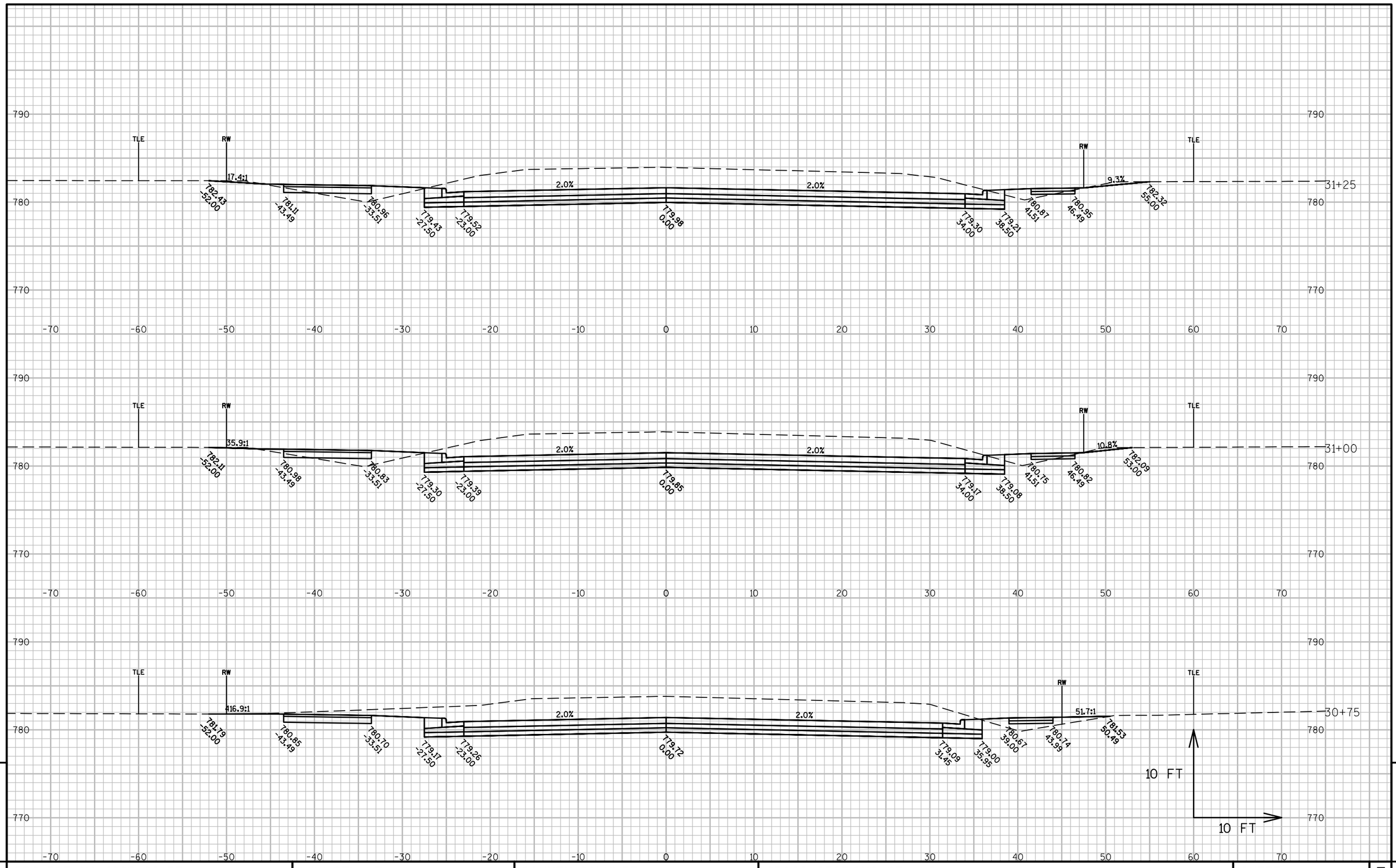
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 264	E



9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 265	E



9

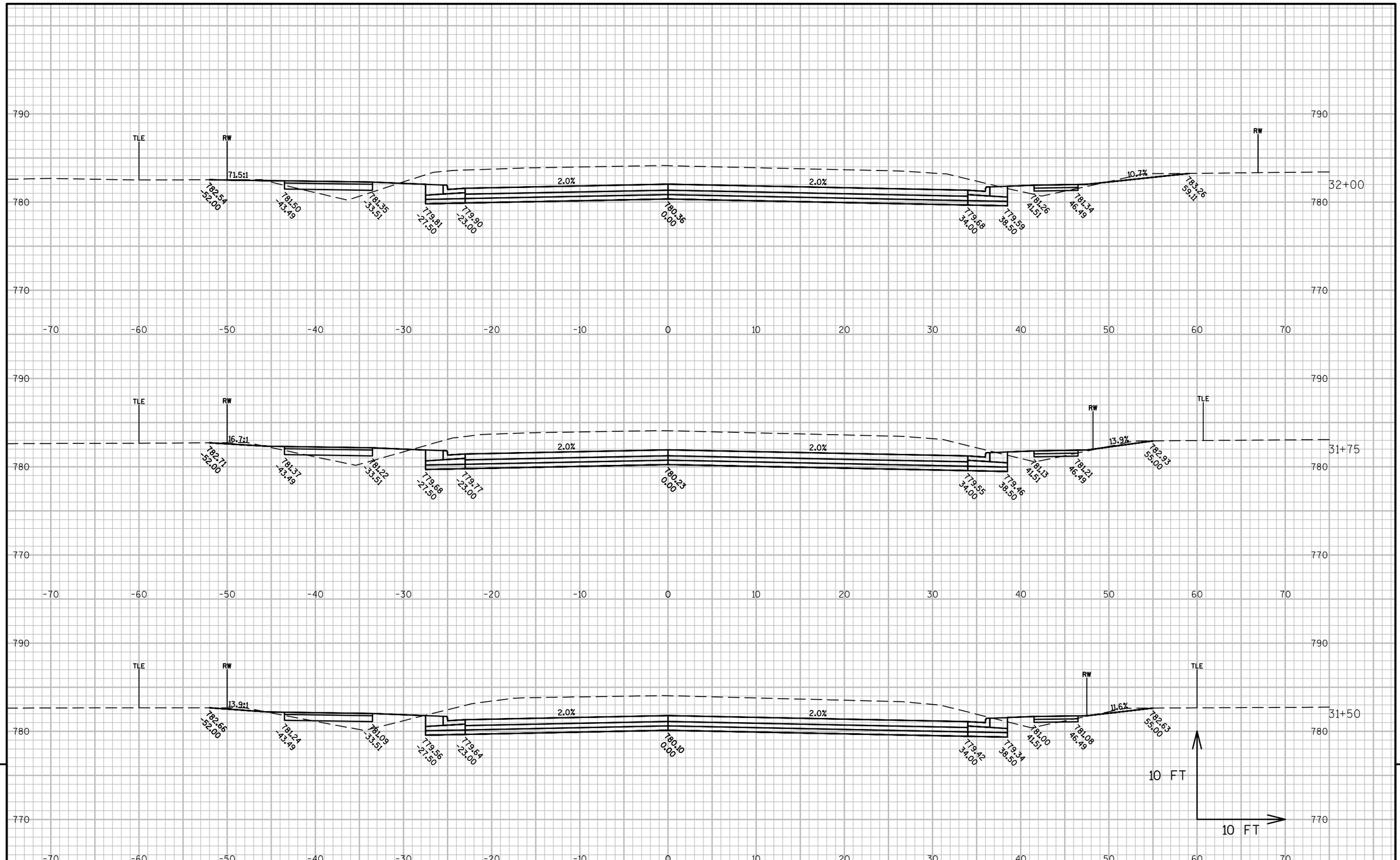
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 266	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (12)

PLOT DATE : 4/2/2018 3:04 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

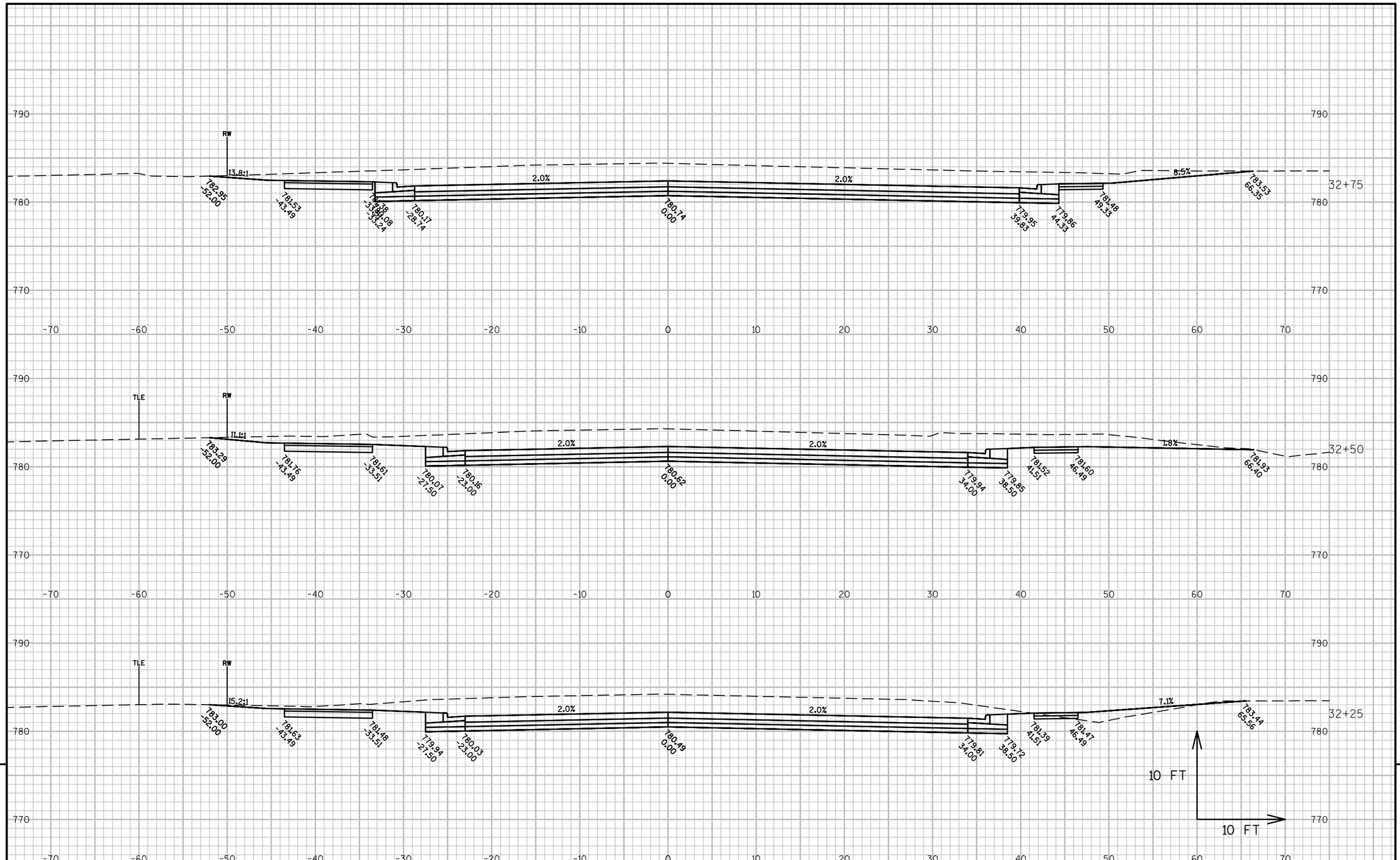


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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 267	E

9

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (13)
PLOT DATE : 4/2/2018 3:04 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

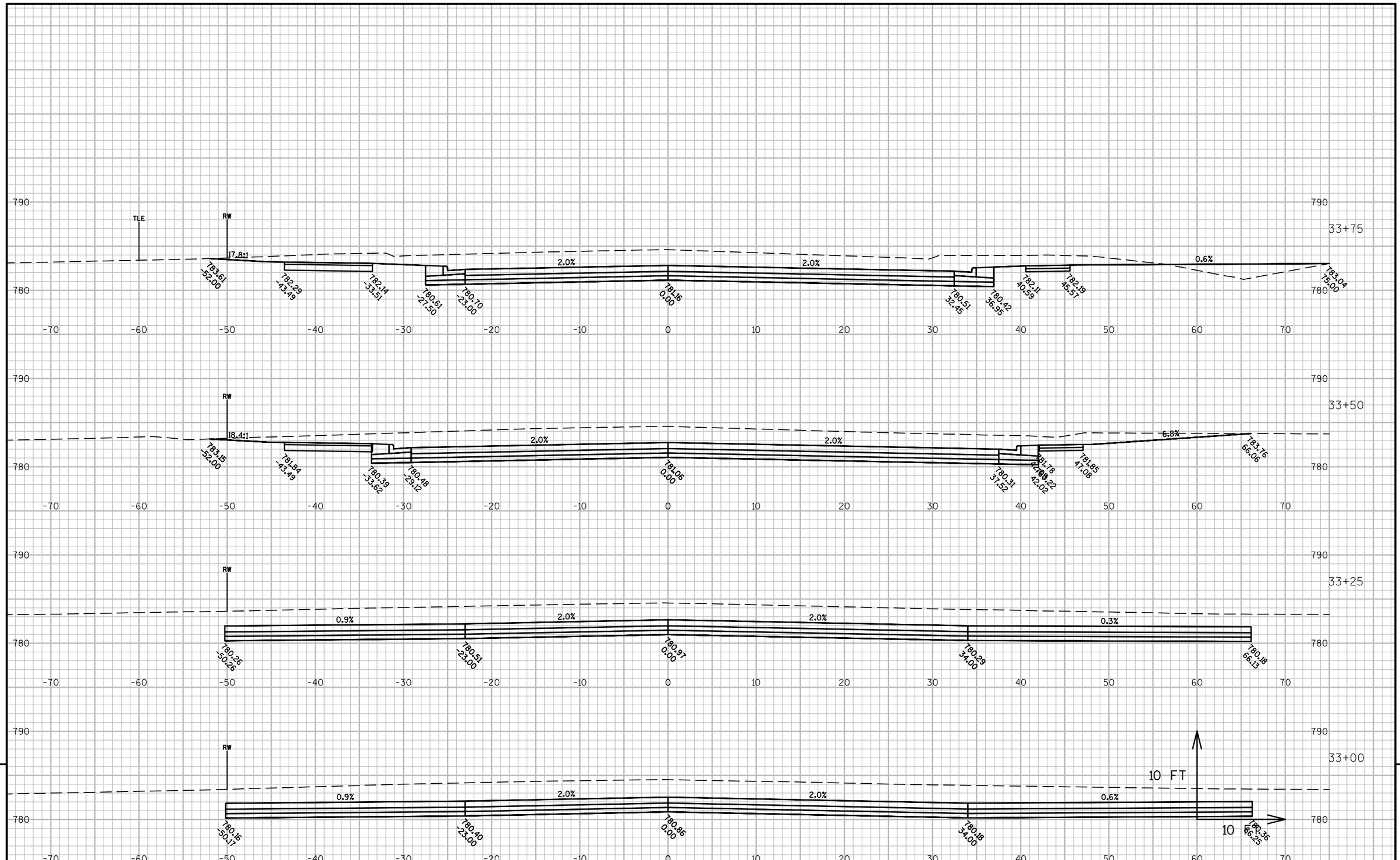
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 268	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (14)

PLOT DATE : 4/2/2018 3:05 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

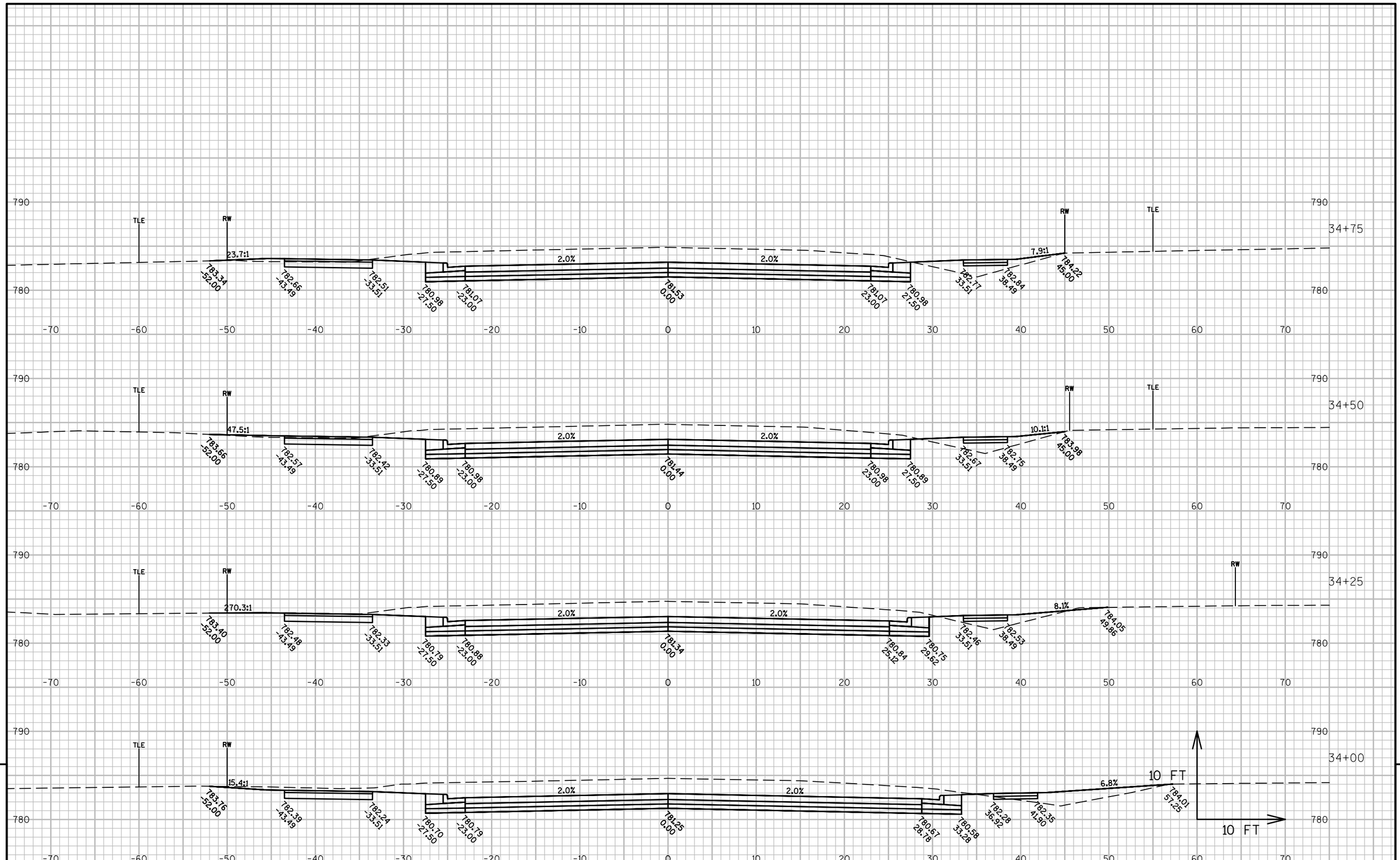


9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 269	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (15)
PLOT DATE : 4/13/2018 11:54 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

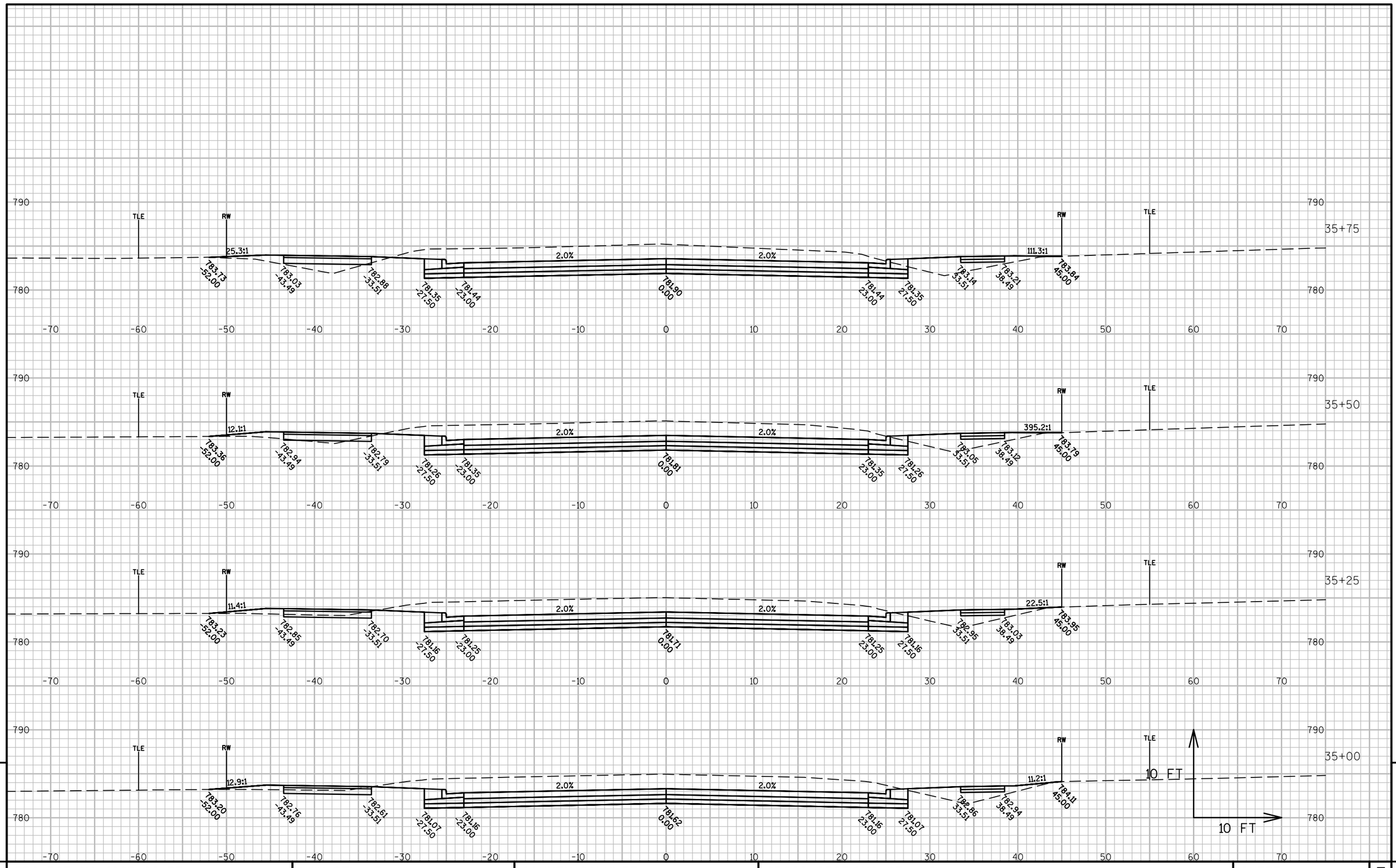
9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 270	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (16)

PLOT DATE : 4/2/2018 3:05 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

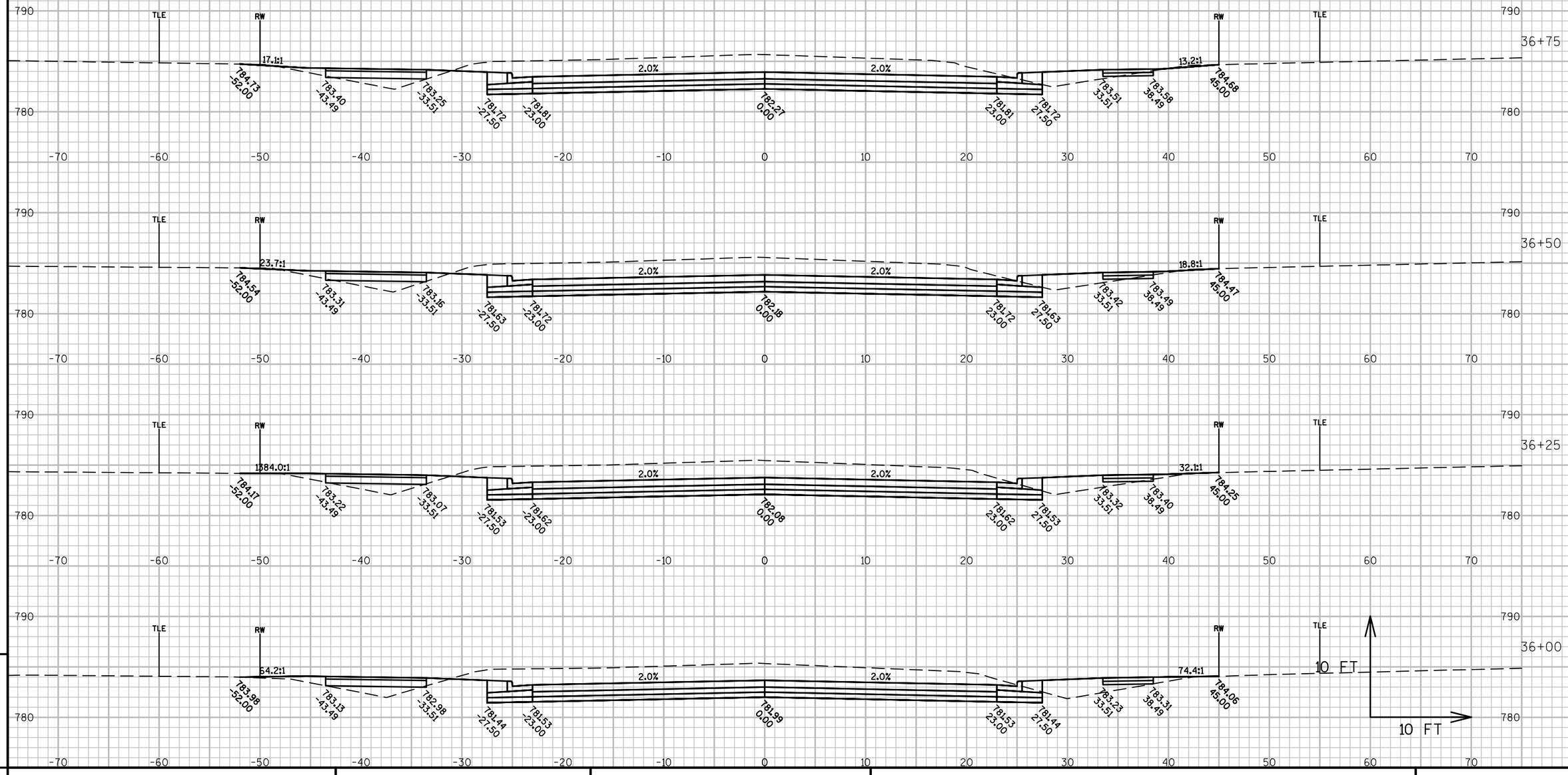
9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 271	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (17)

PLOT DATE : 4/2/2018 3:06 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

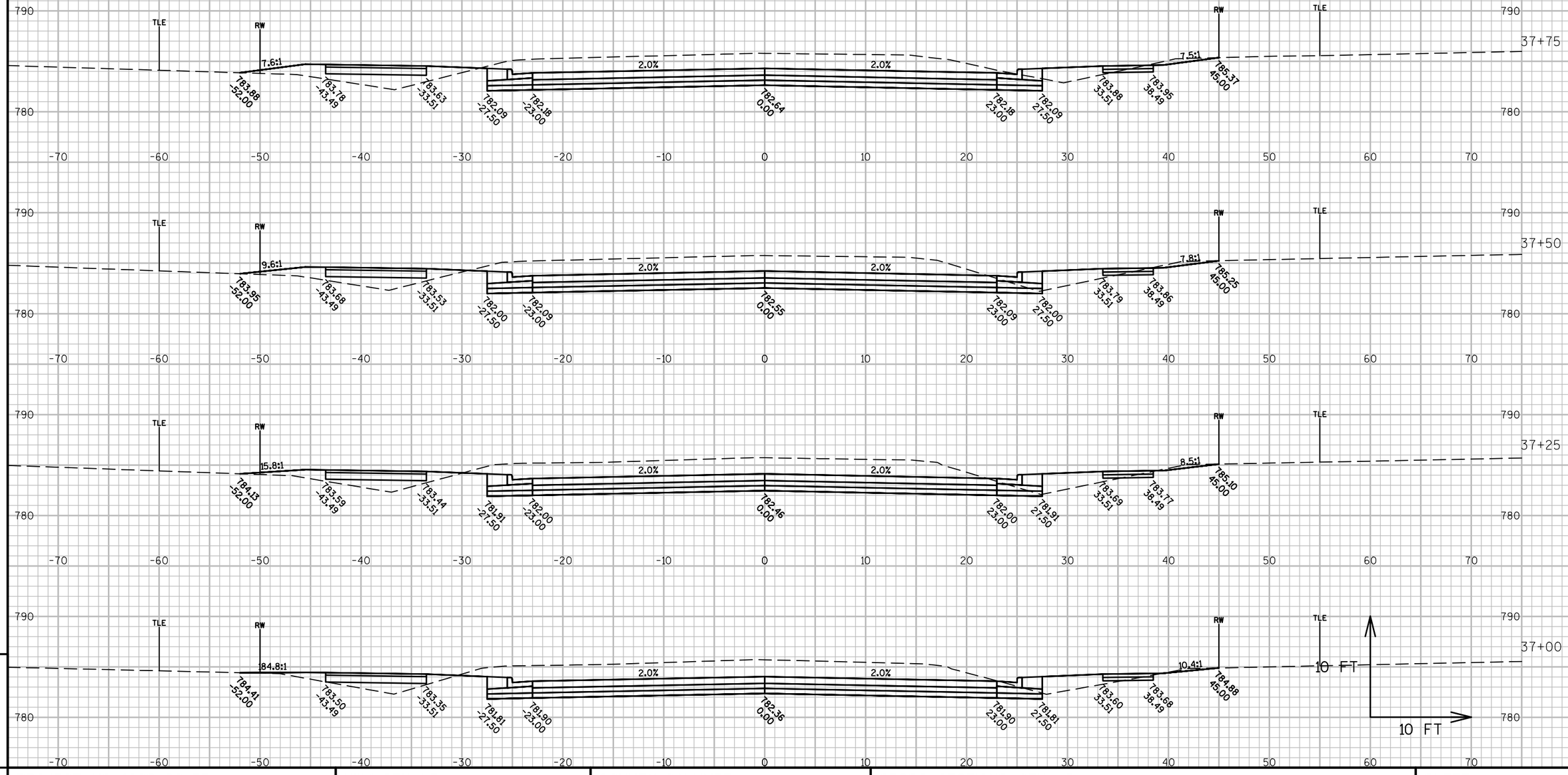
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 272	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (18)

PLOT DATE : 4/2/2018 3:06 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

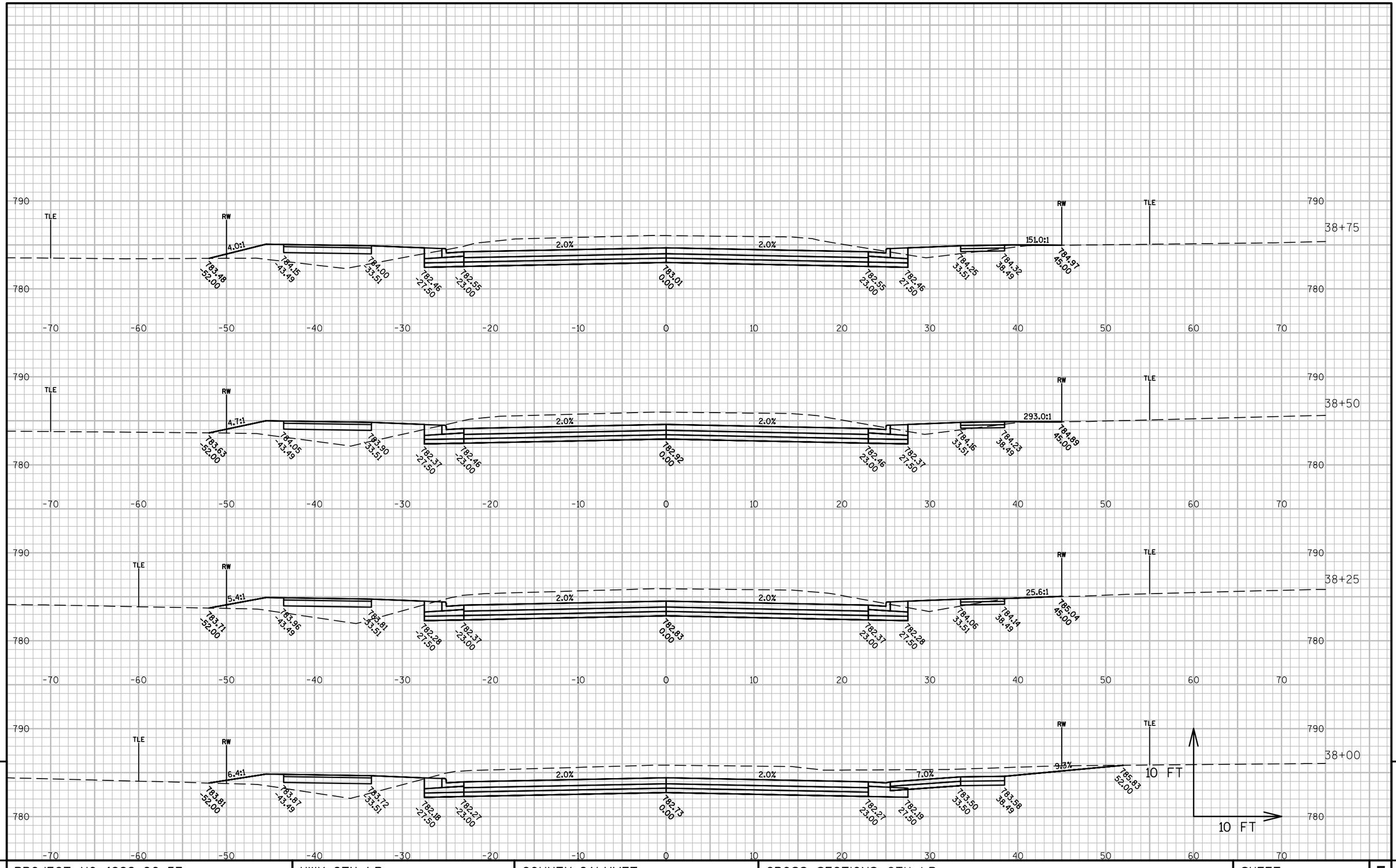
9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 273	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (19)

PLOT DATE : 4/2/2018 3:07 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

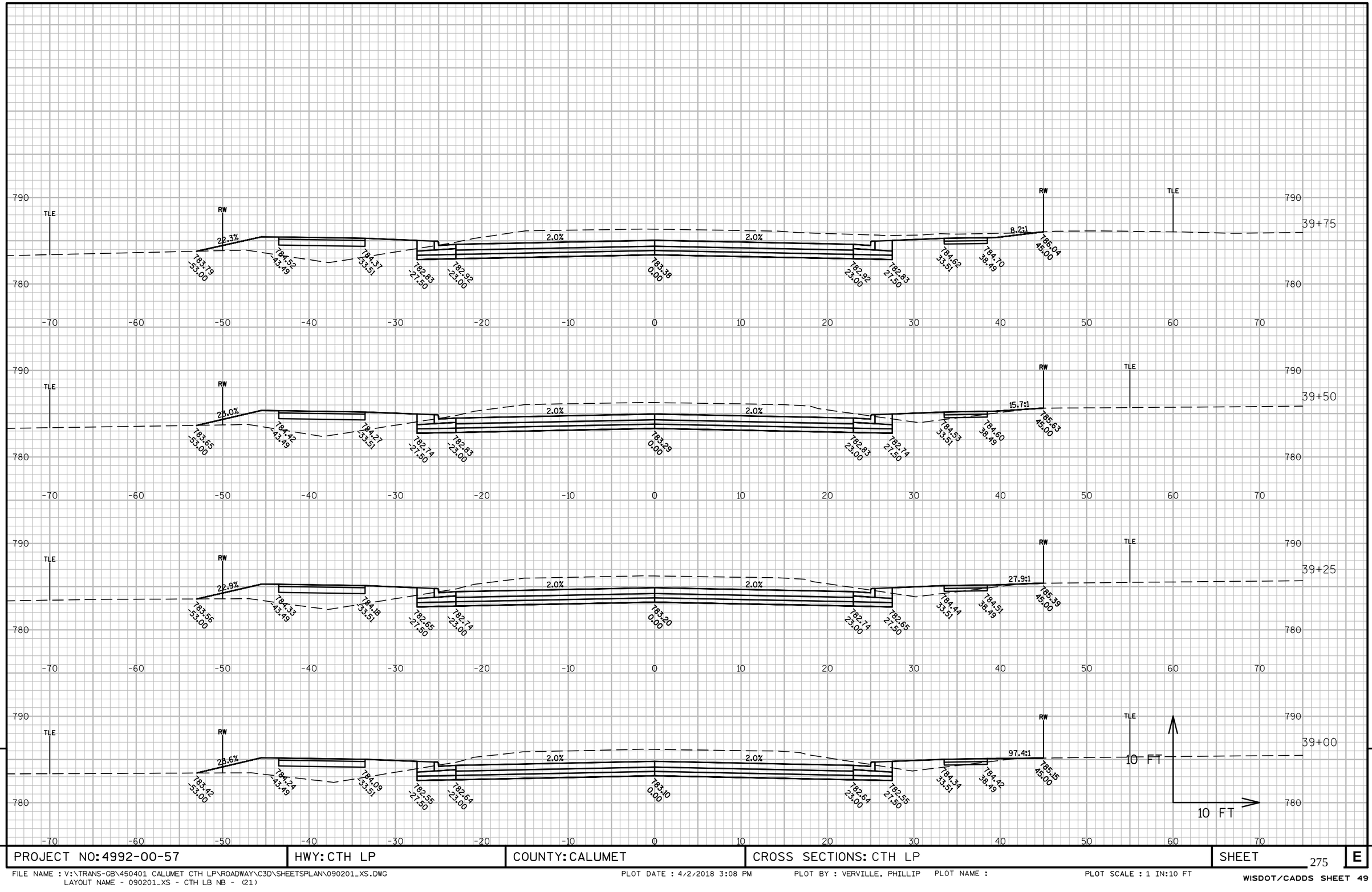
9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 274	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (20)

PLOT DATE : 4/2/2018 3:07 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



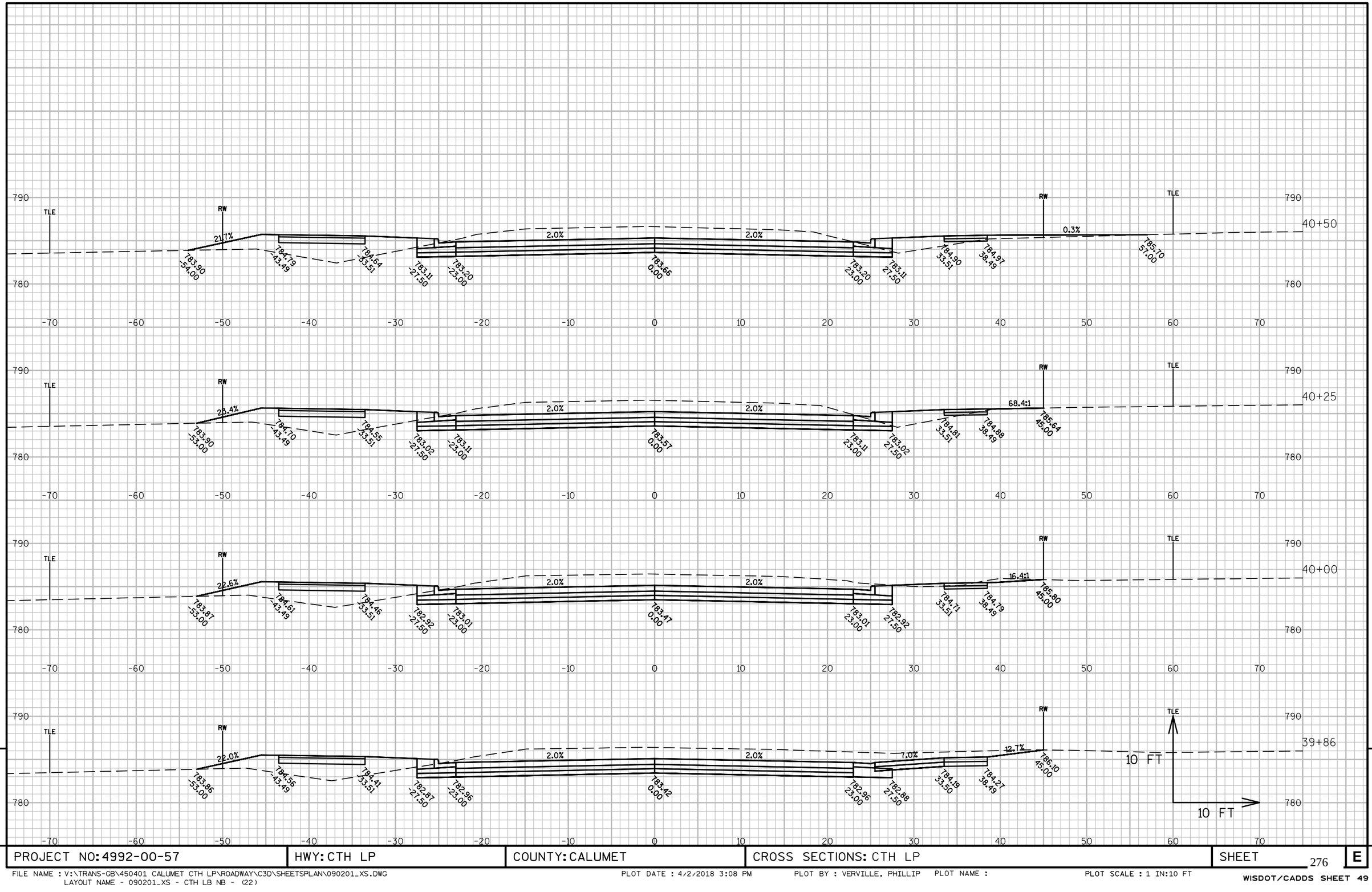
9 9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 275	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (21)

PLOT DATE : 4/2/2018 3:08 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

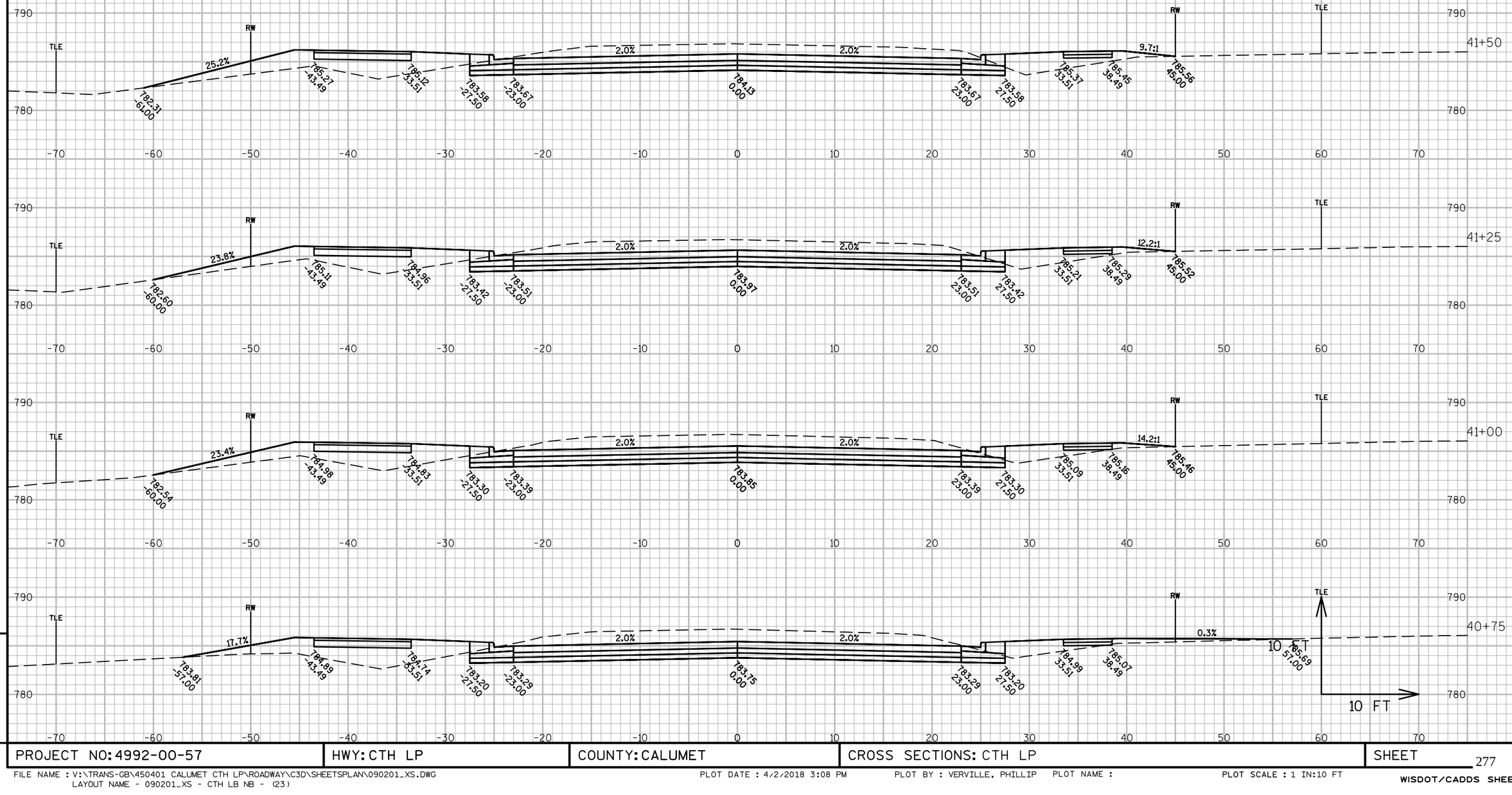
9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 276	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (22)

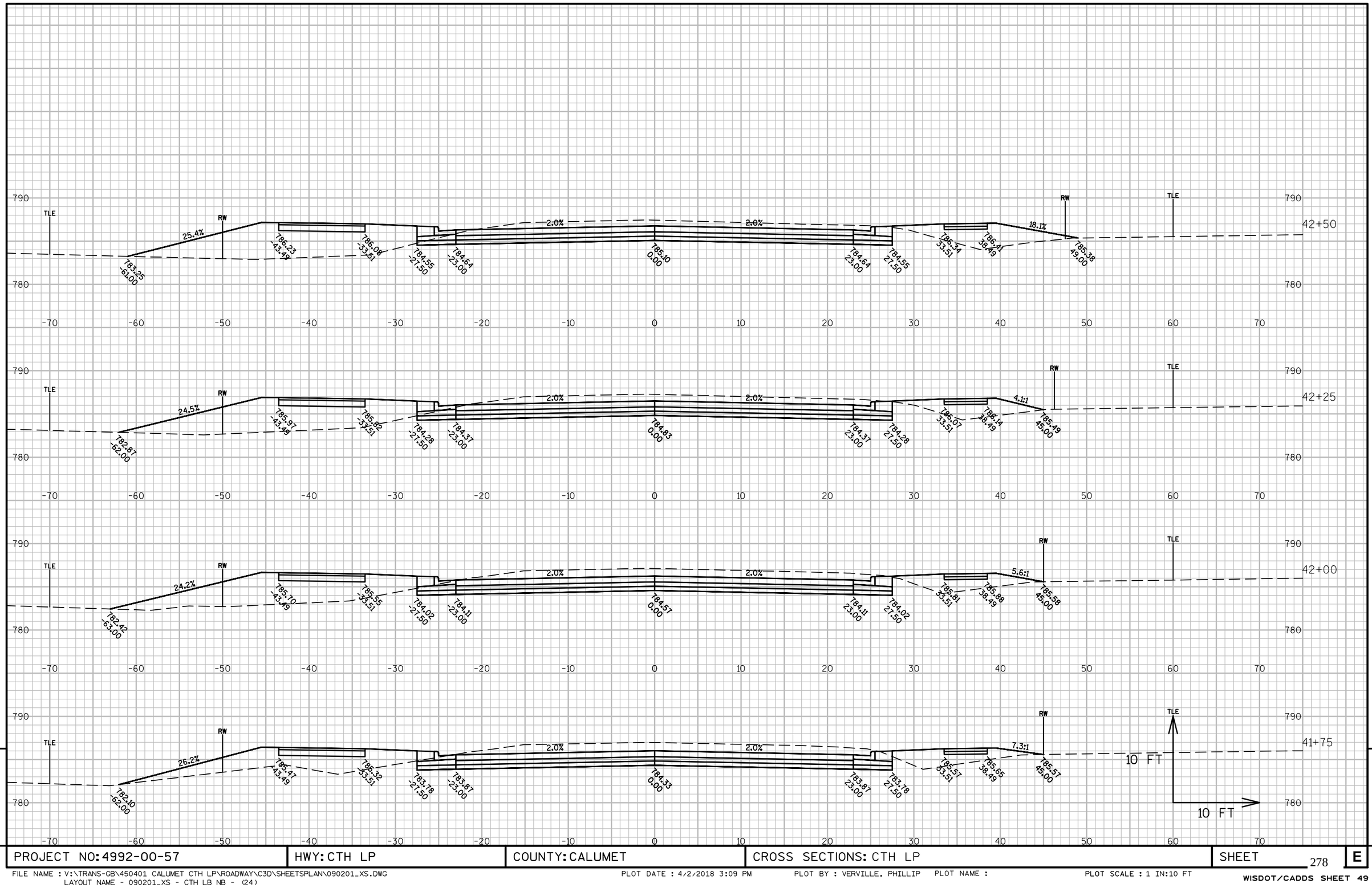
PLOT DATE : 4/2/2018 3:08 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 277	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (23)
PLOT DATE : 4/2/2018 3:08 PM
PLOT BY : VERVILLE, PHILLIP
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

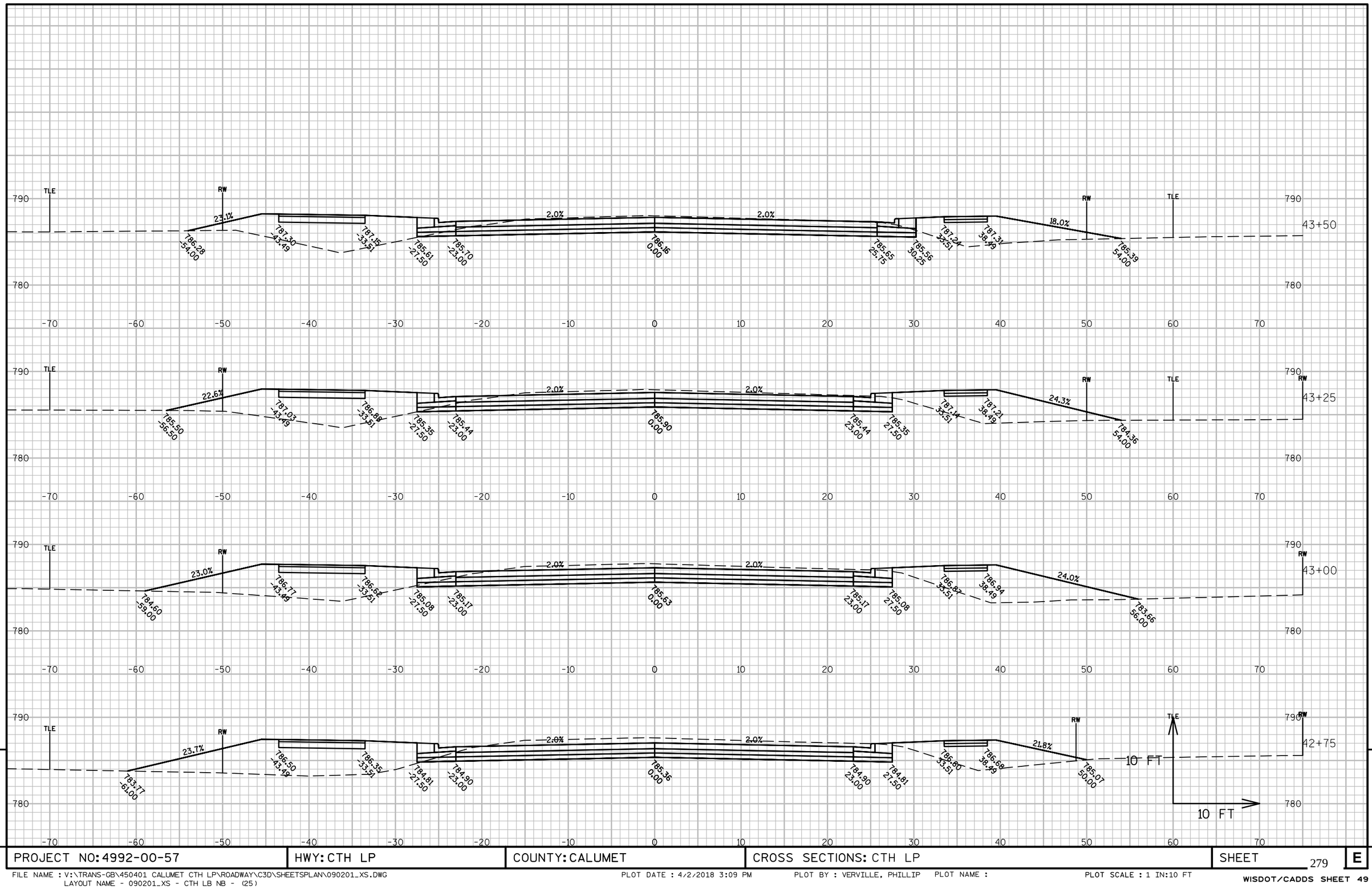


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 278	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (24)

PLOT DATE : 4/2/2018 3:09 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

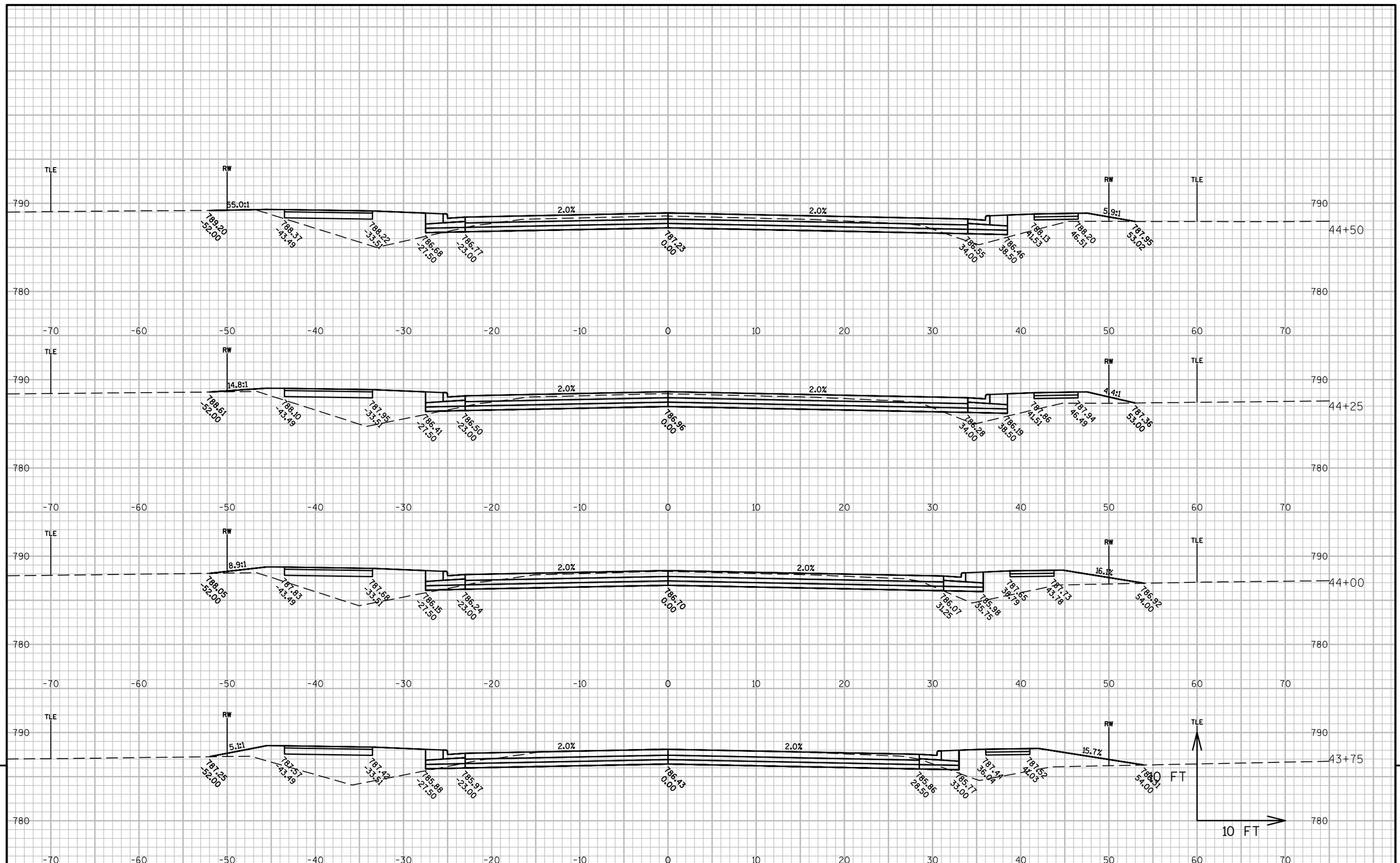
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 279	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (25)

PLOT DATE : 4/2/2018 3:09 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

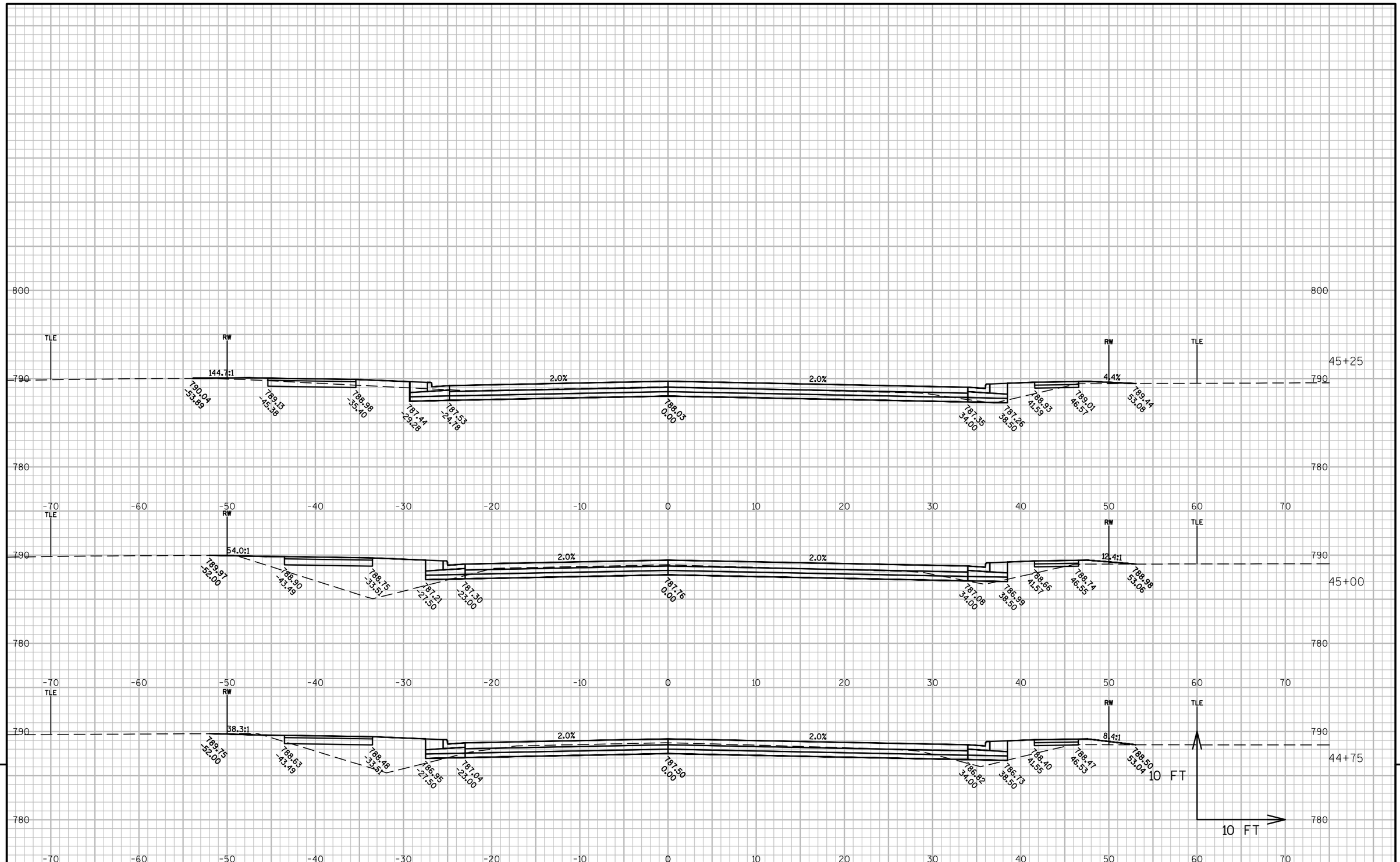


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 280 E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (26)

PLOT DATE : 4/2/2018 3:10 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

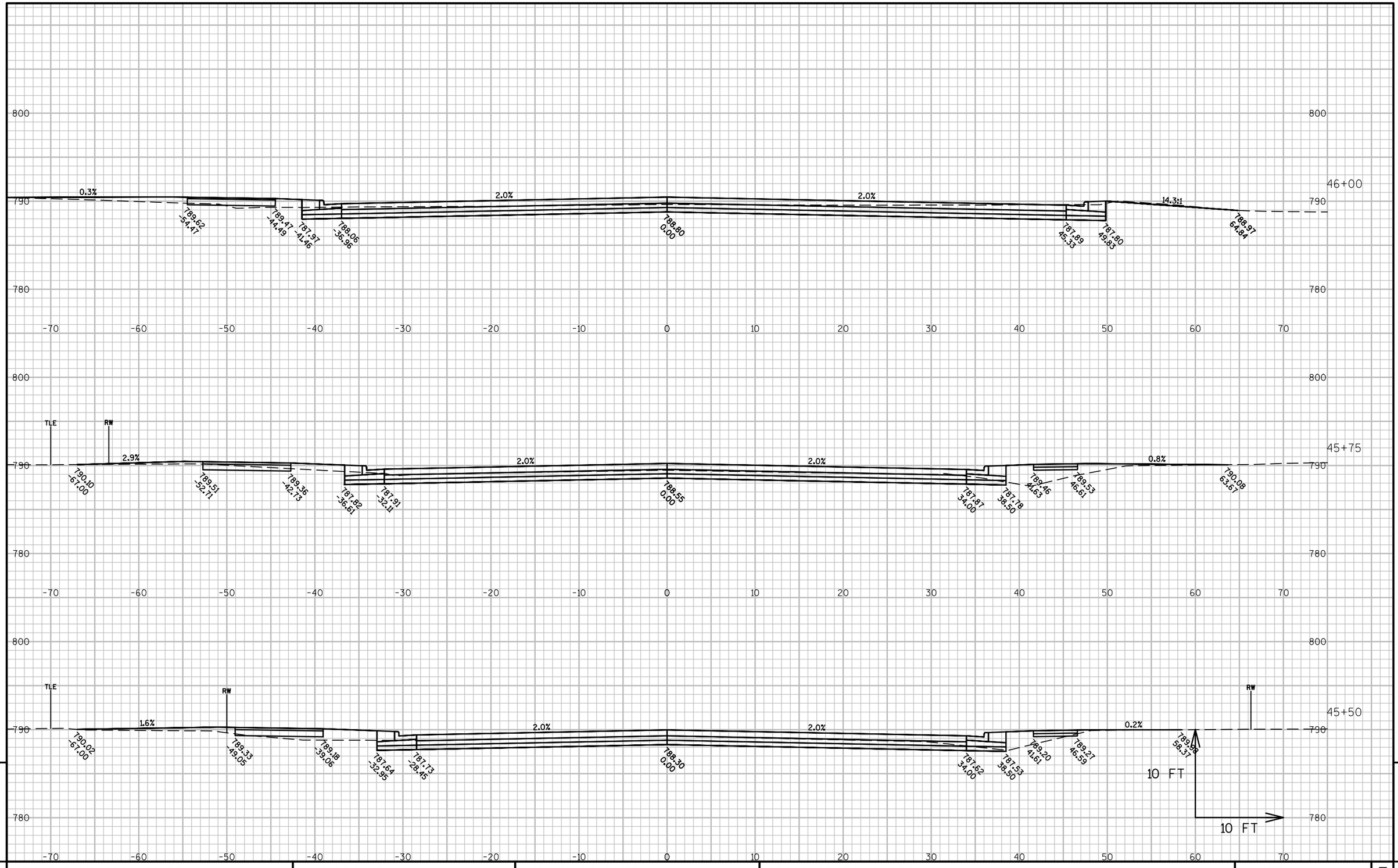


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 281	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (27)

PLOT DATE : 4/2/2018 3:10 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

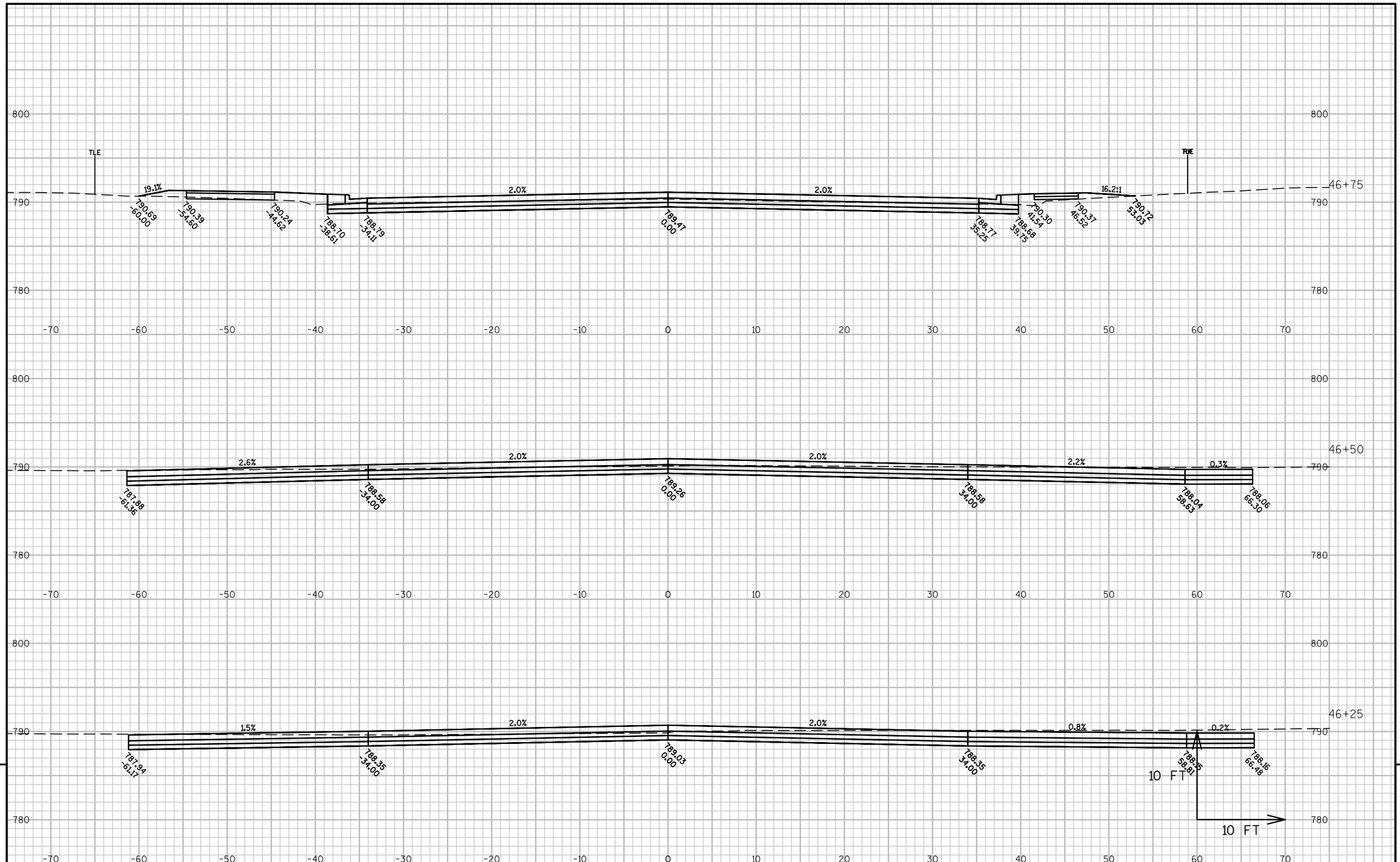
WISDOT/CADDS SHEET 49



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 282	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (28)

PLOT DATE : 4/2/2018 3:11 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT



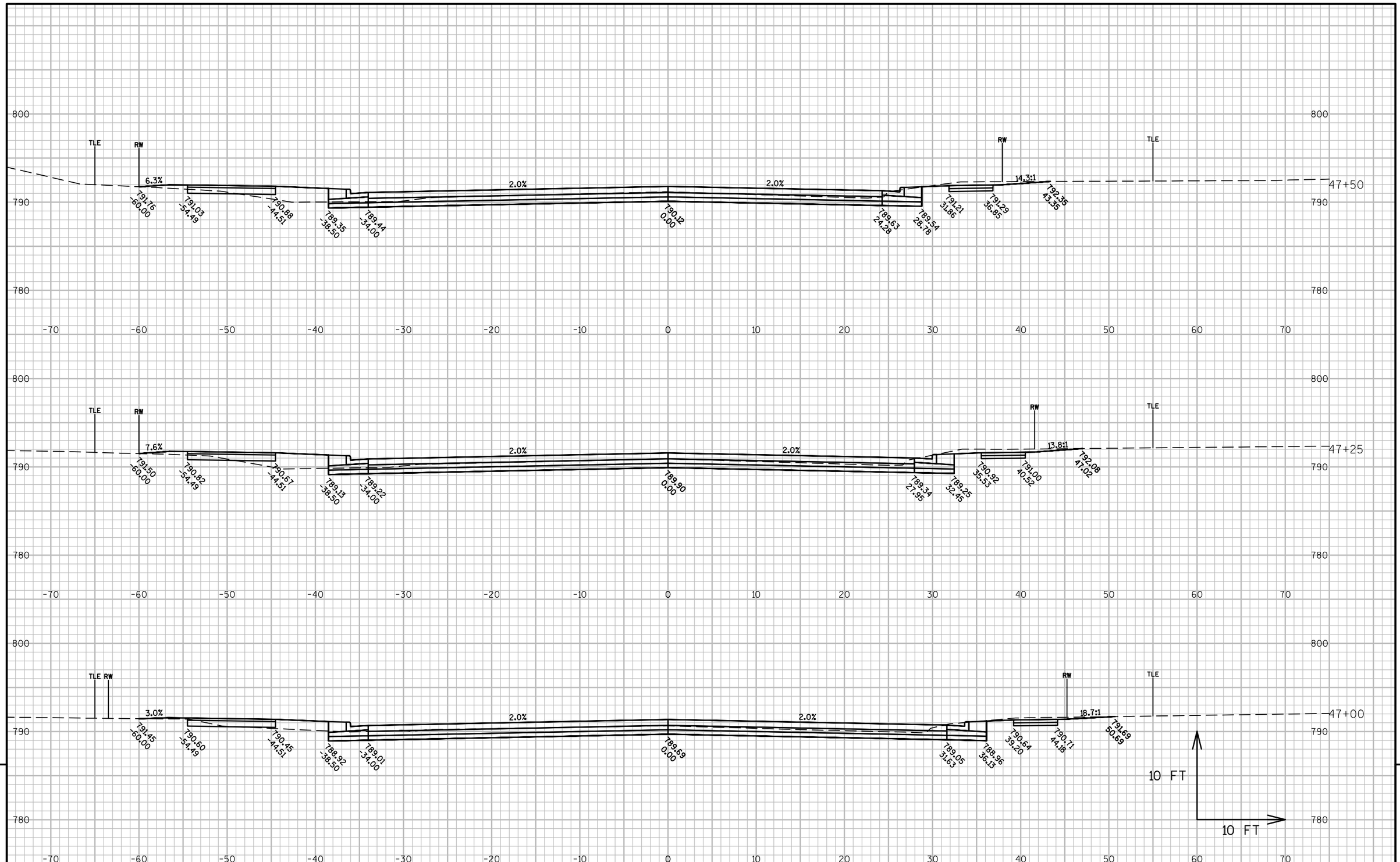
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 283	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (29)

PLOT DATE : 4/2/2018 3:11 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

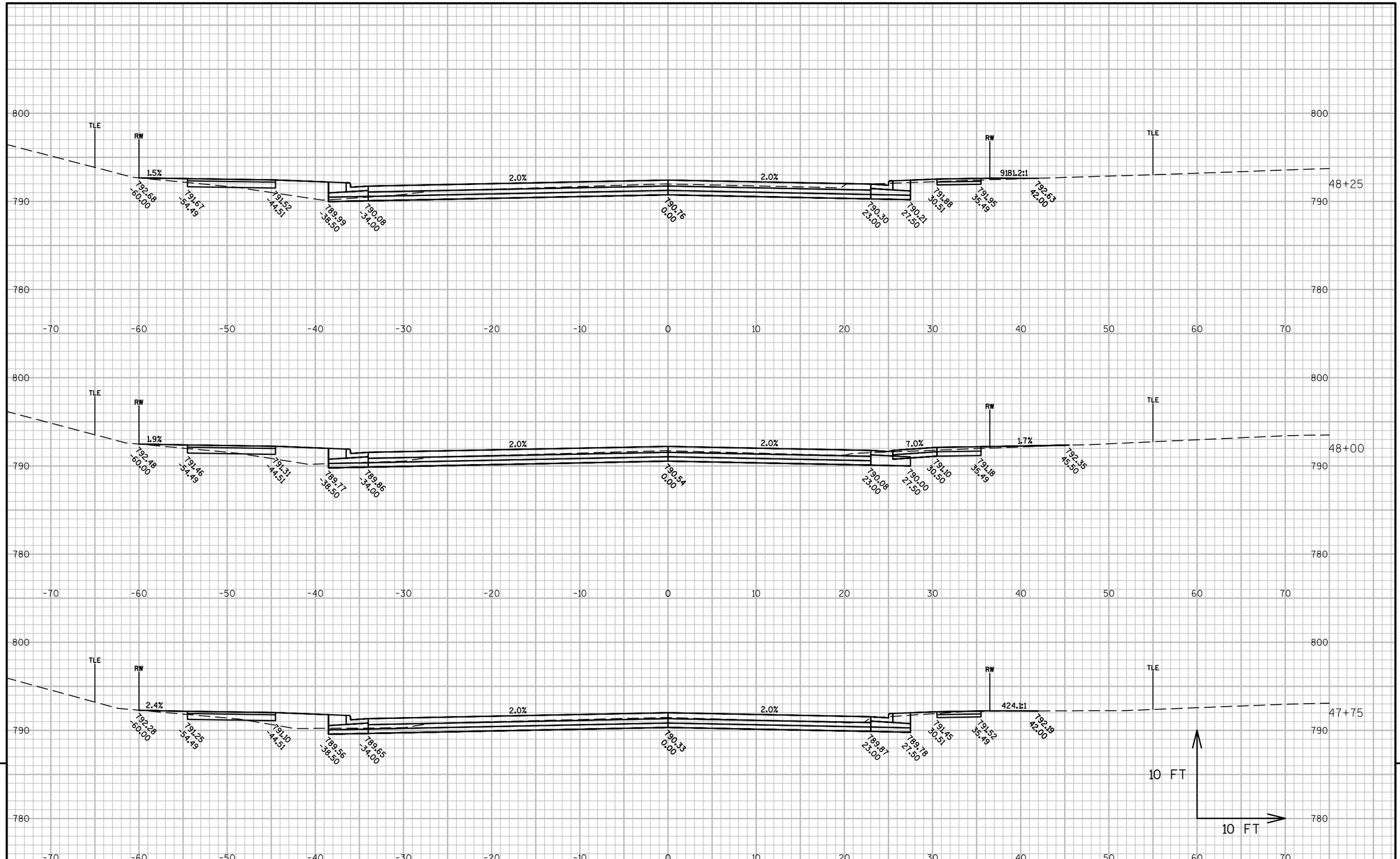


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 284 E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (30)

PLOT DATE : 4/2/2018 3:11 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

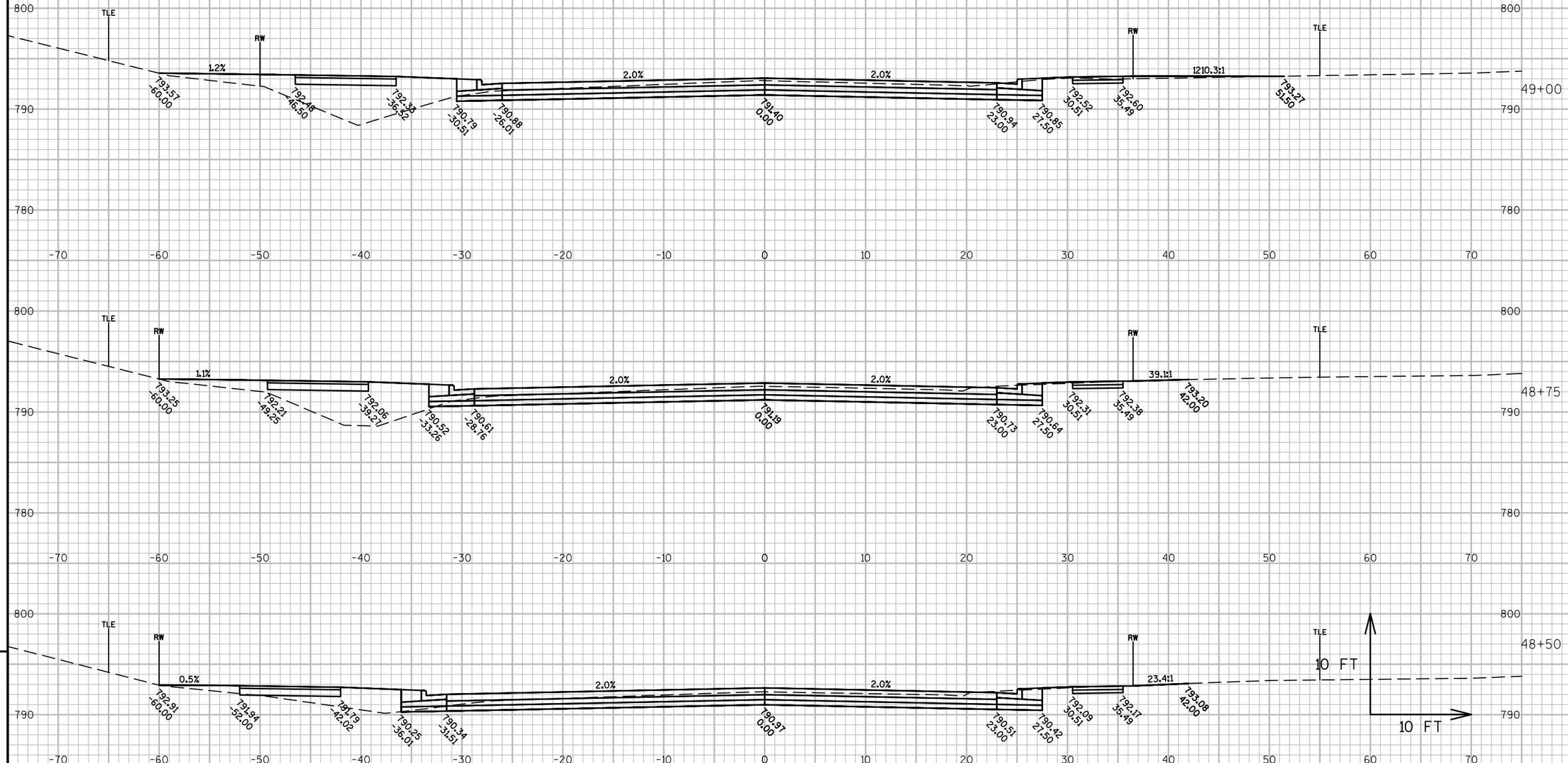


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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 285	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (31)
PLOT DATE : 4/2/2018 3:12 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 286	E

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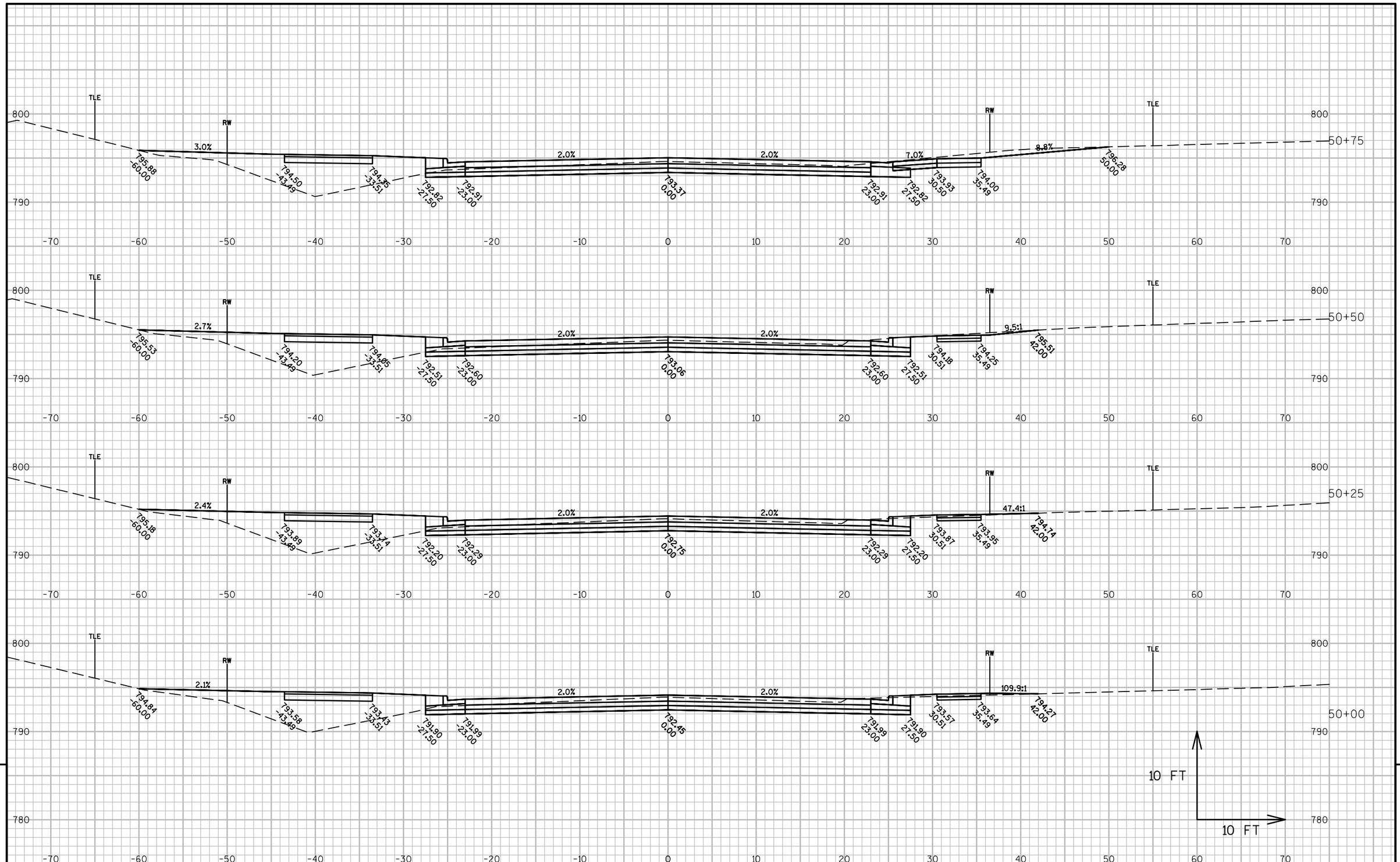
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 287	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (33)

PLOT DATE : 4/2/2018 3:13 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

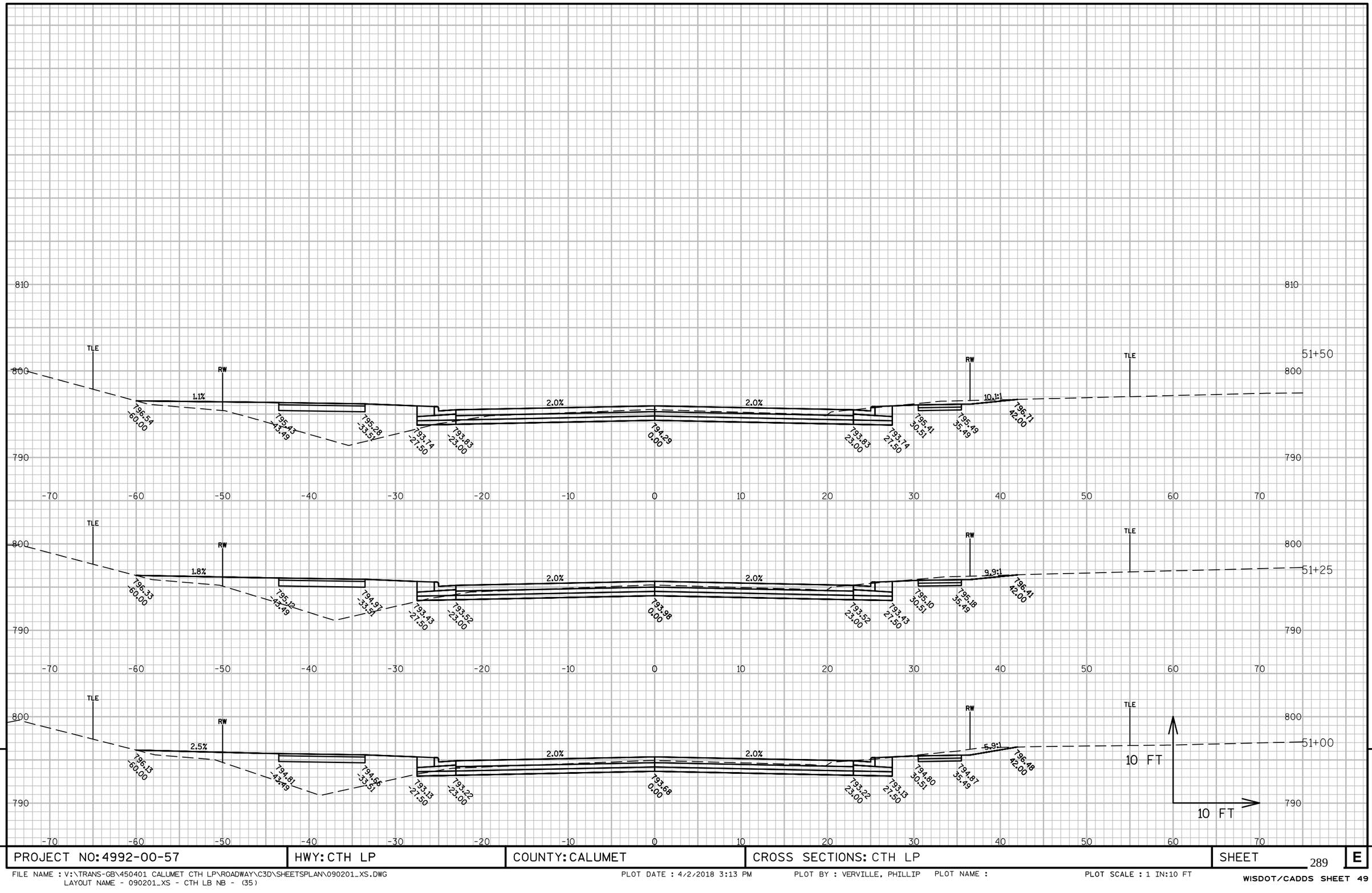
WISDOT/CADDS SHEET 49



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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 288	E

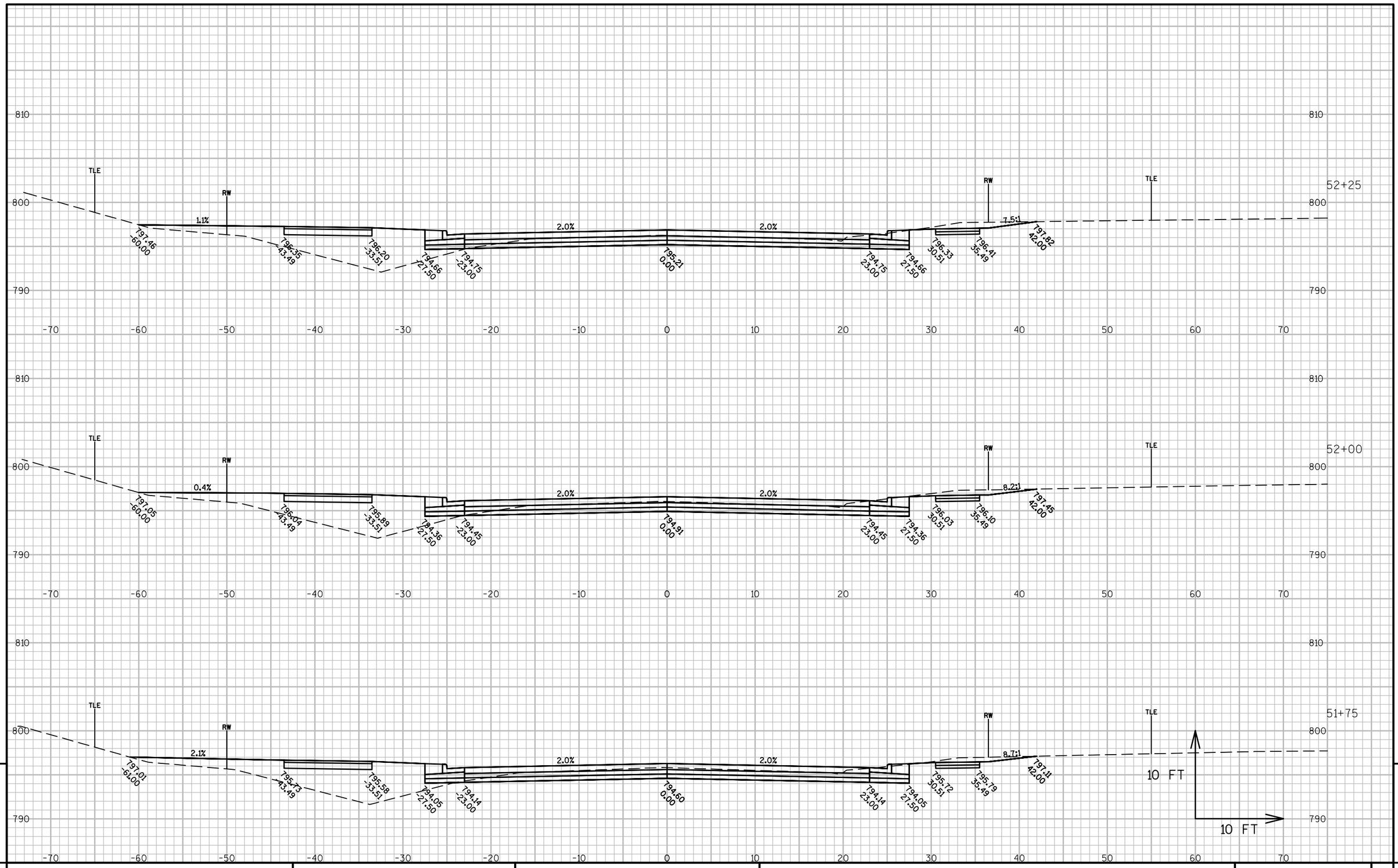


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 289	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (35)

PLOT DATE : 4/2/2018 3:13 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

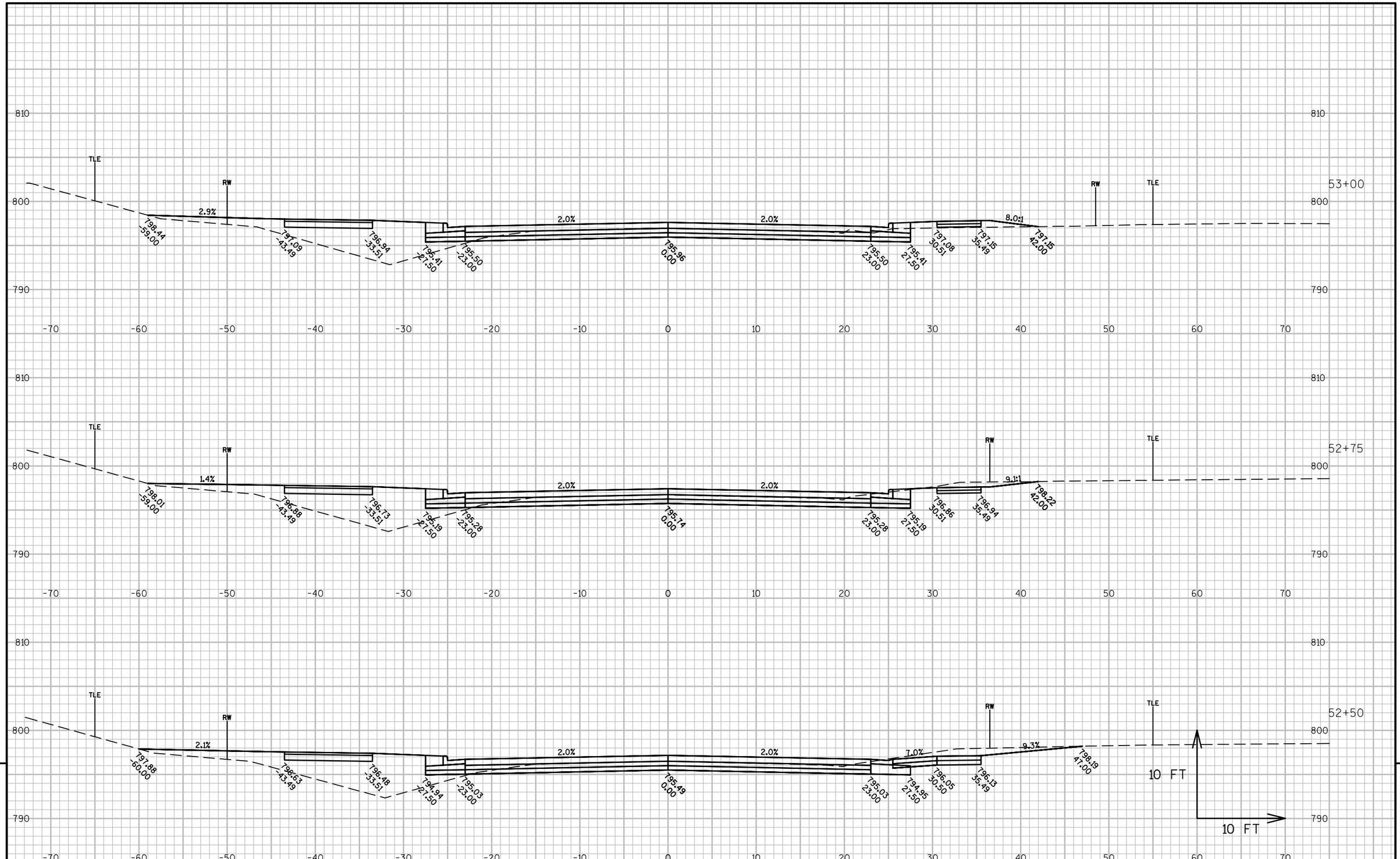
WISDOT/CADDS SHEET 49



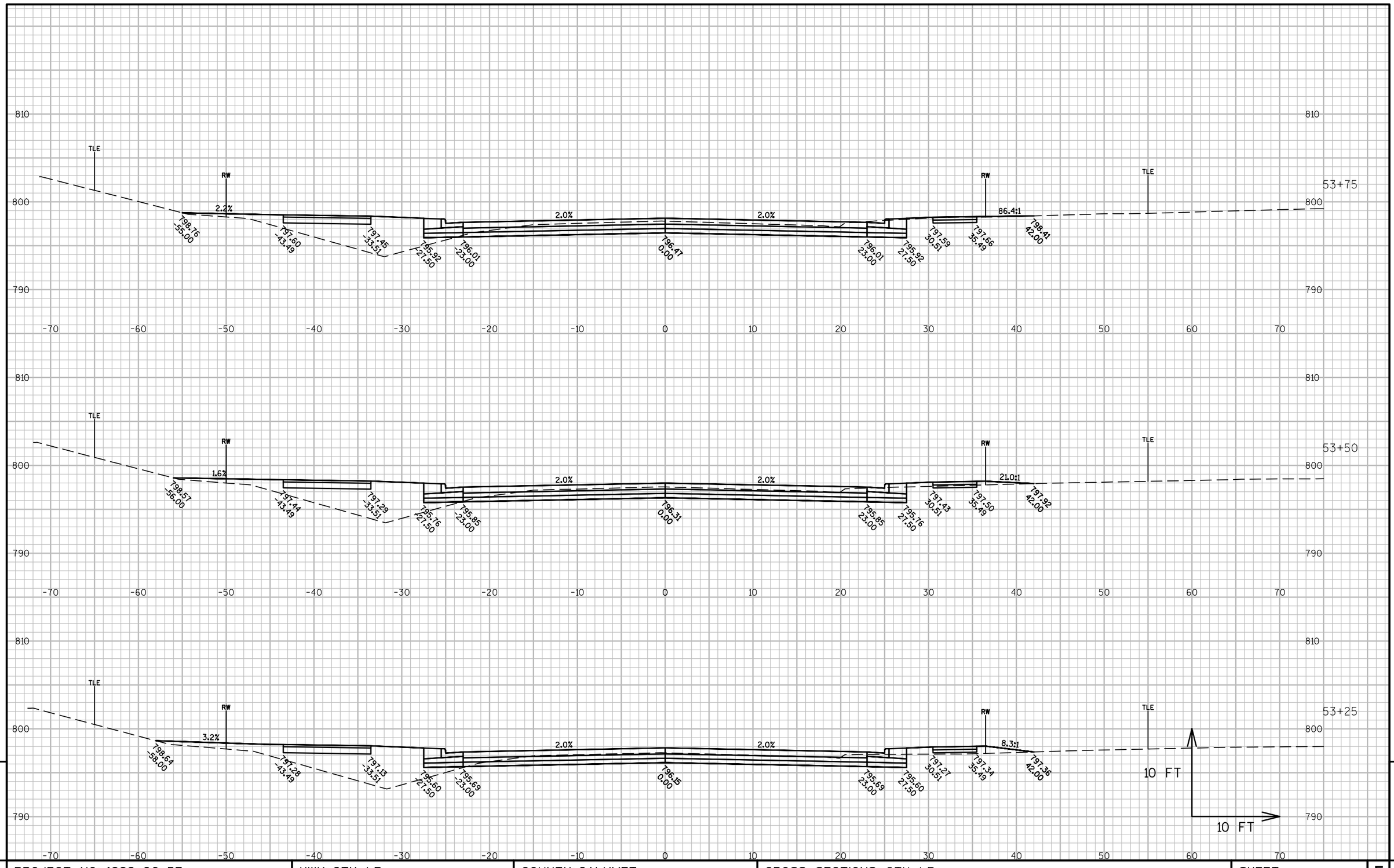
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 290	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (36)

PLOT DATE : 4/2/2018 3:14 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 291	E



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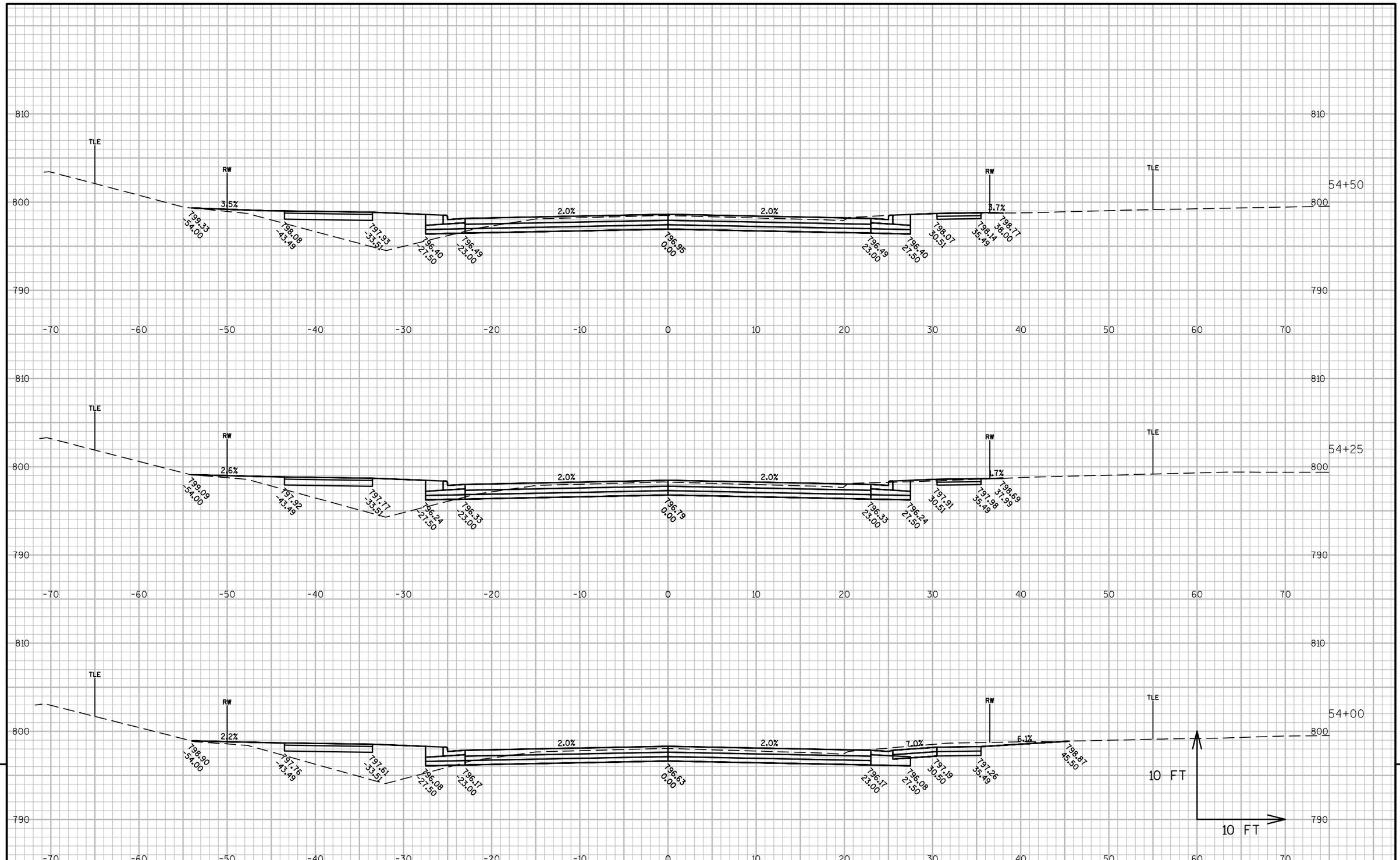
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 292	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (38)

PLOT DATE : 4/2/2018 3:15 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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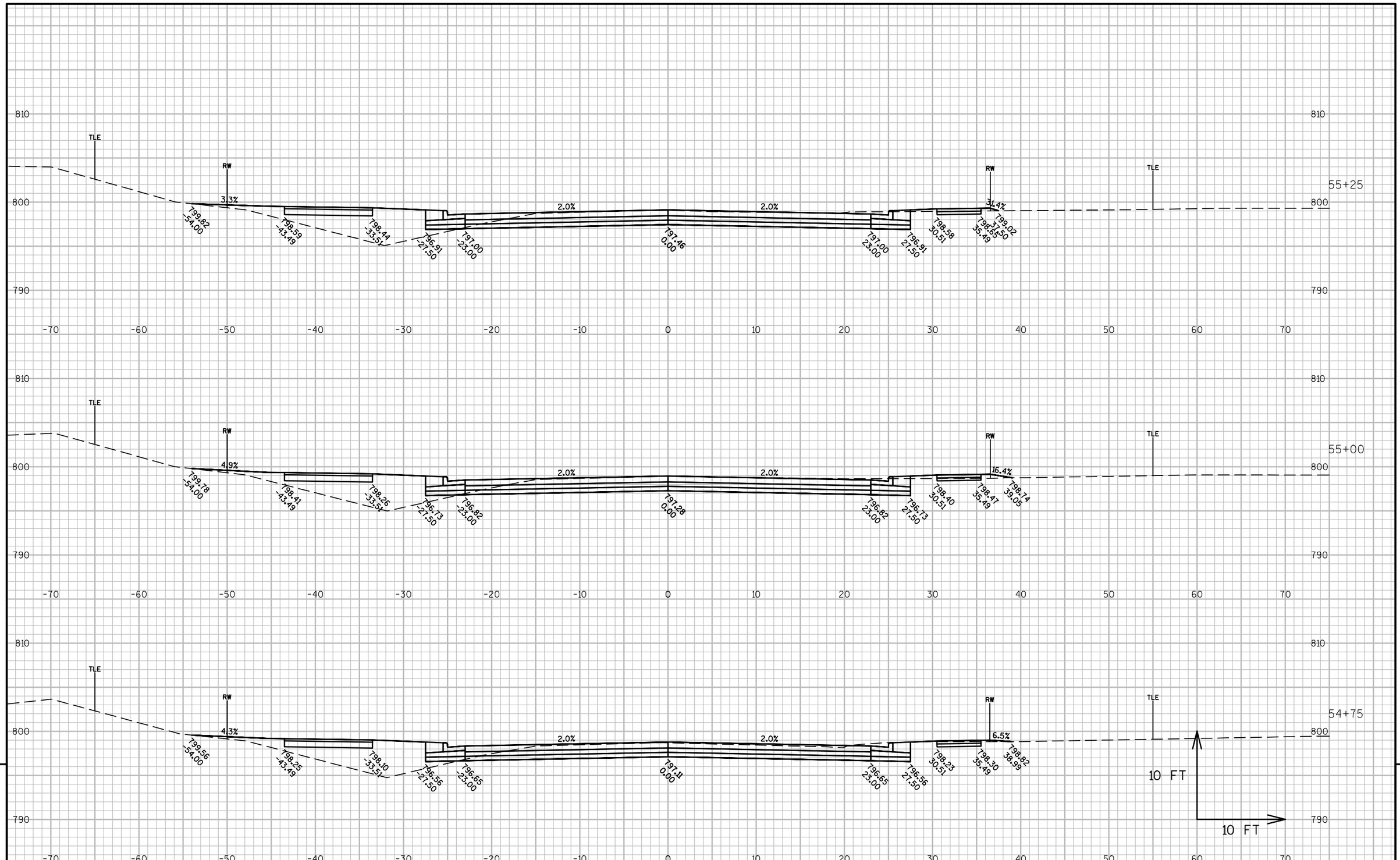
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 293	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (39)

PLOT DATE : 4/2/2018 3:15 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 294	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (40)

PLOT DATE : 8/7/2018 12:07 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

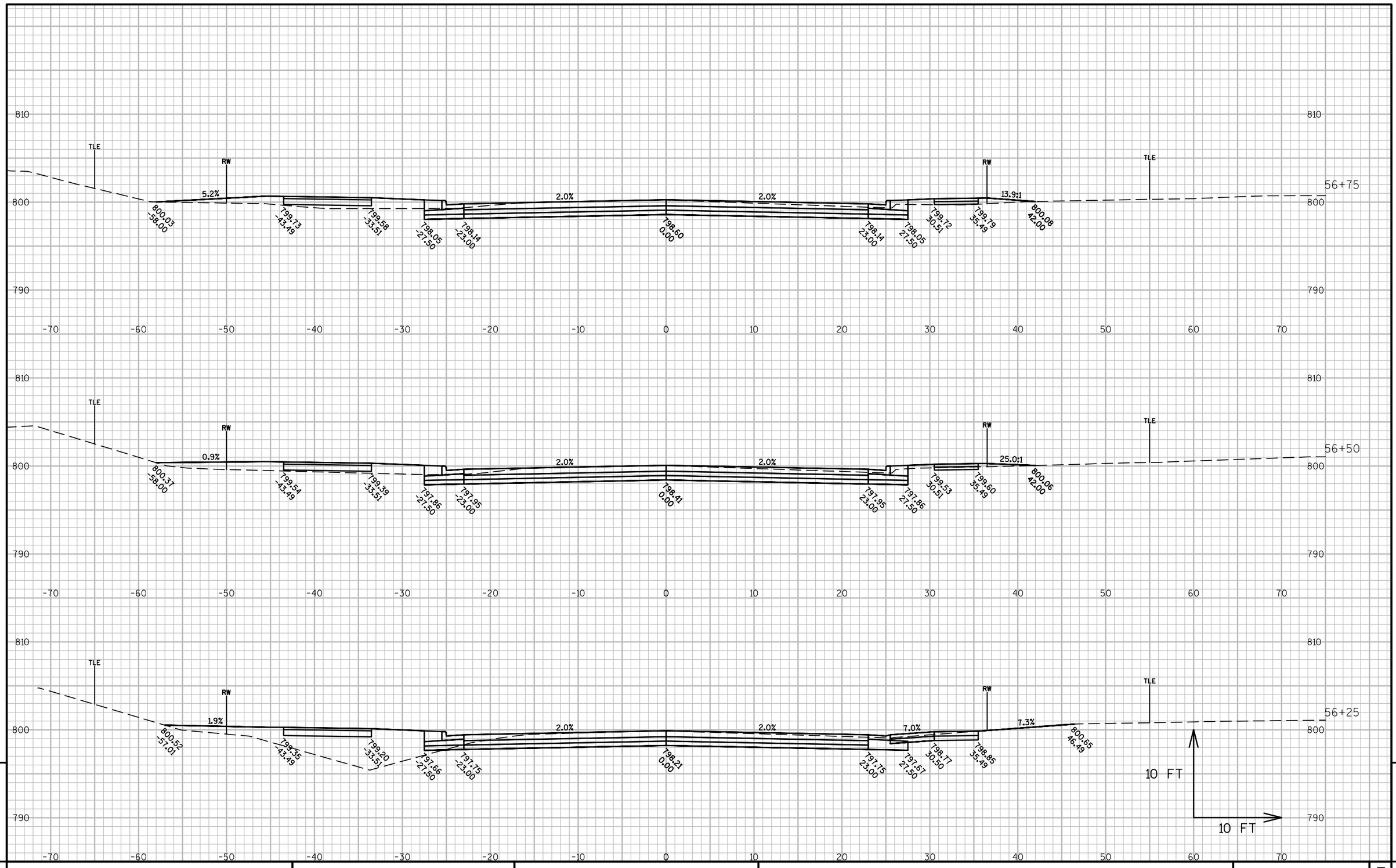
WISDOT/CADDS SHEET 49

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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 295	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (41)
PLOT DATE : 8/7/2018 12:08 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



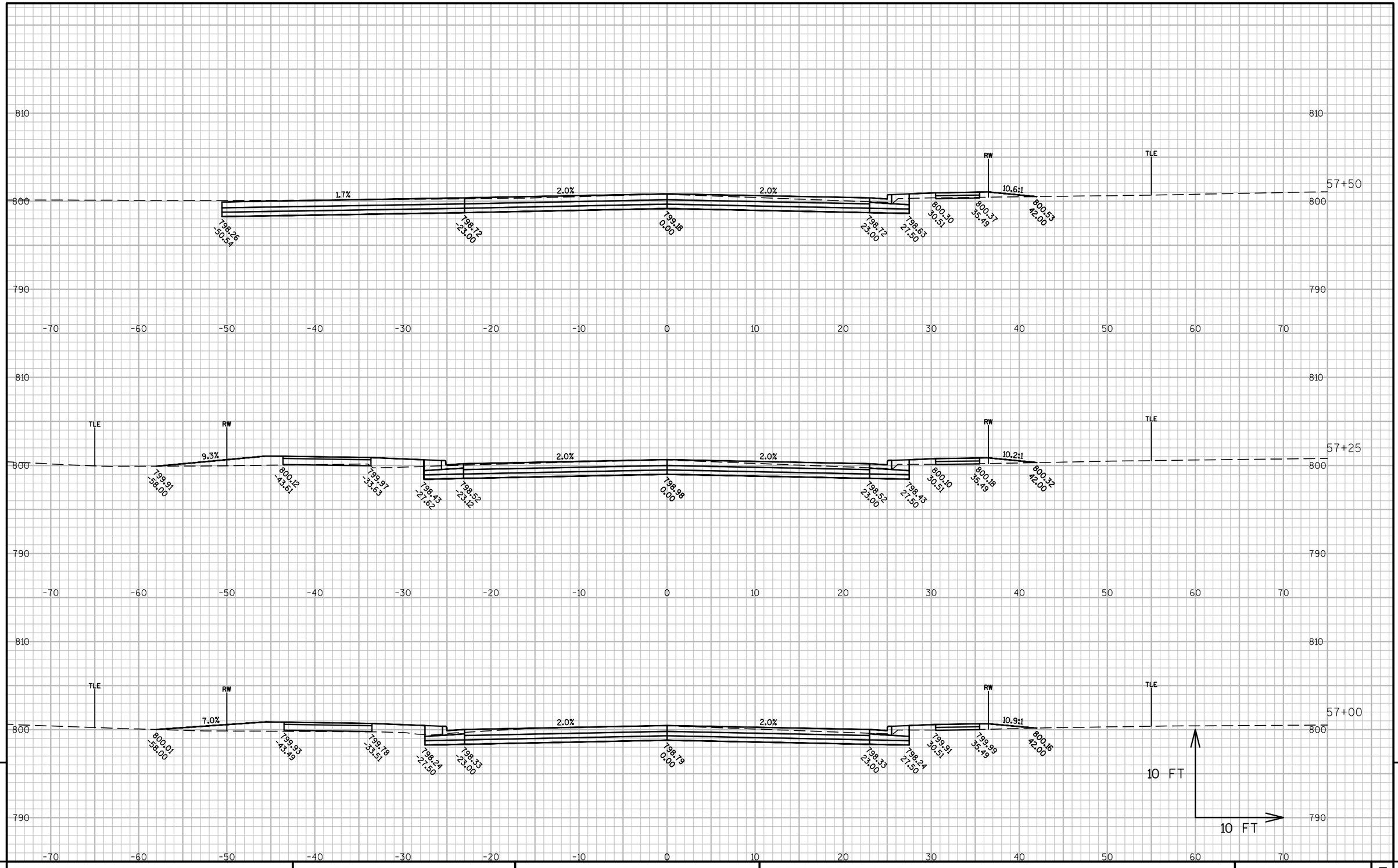
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 296	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (42)

PLOT DATE : 8/7/2018 12:08 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

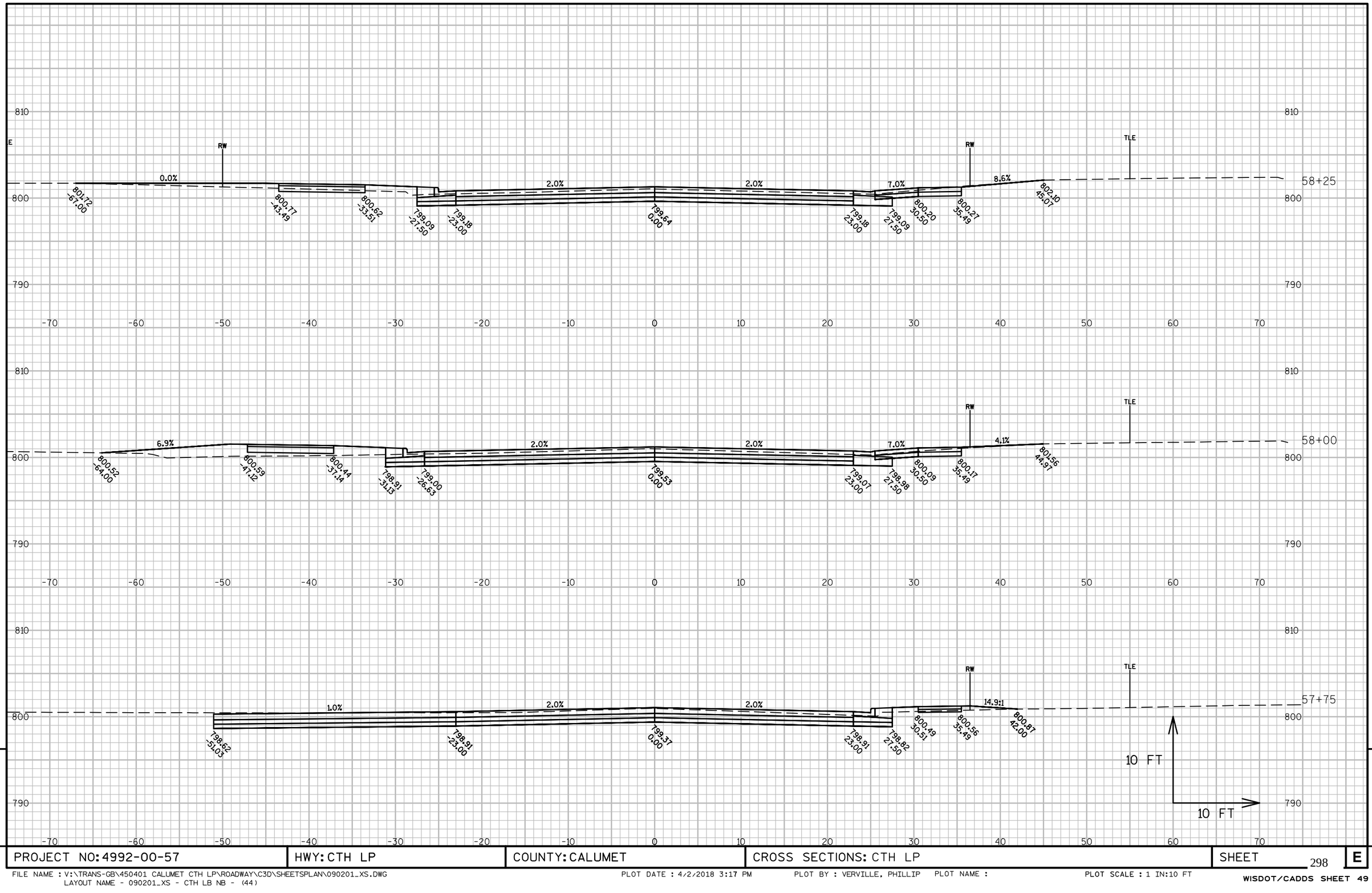


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 297	E

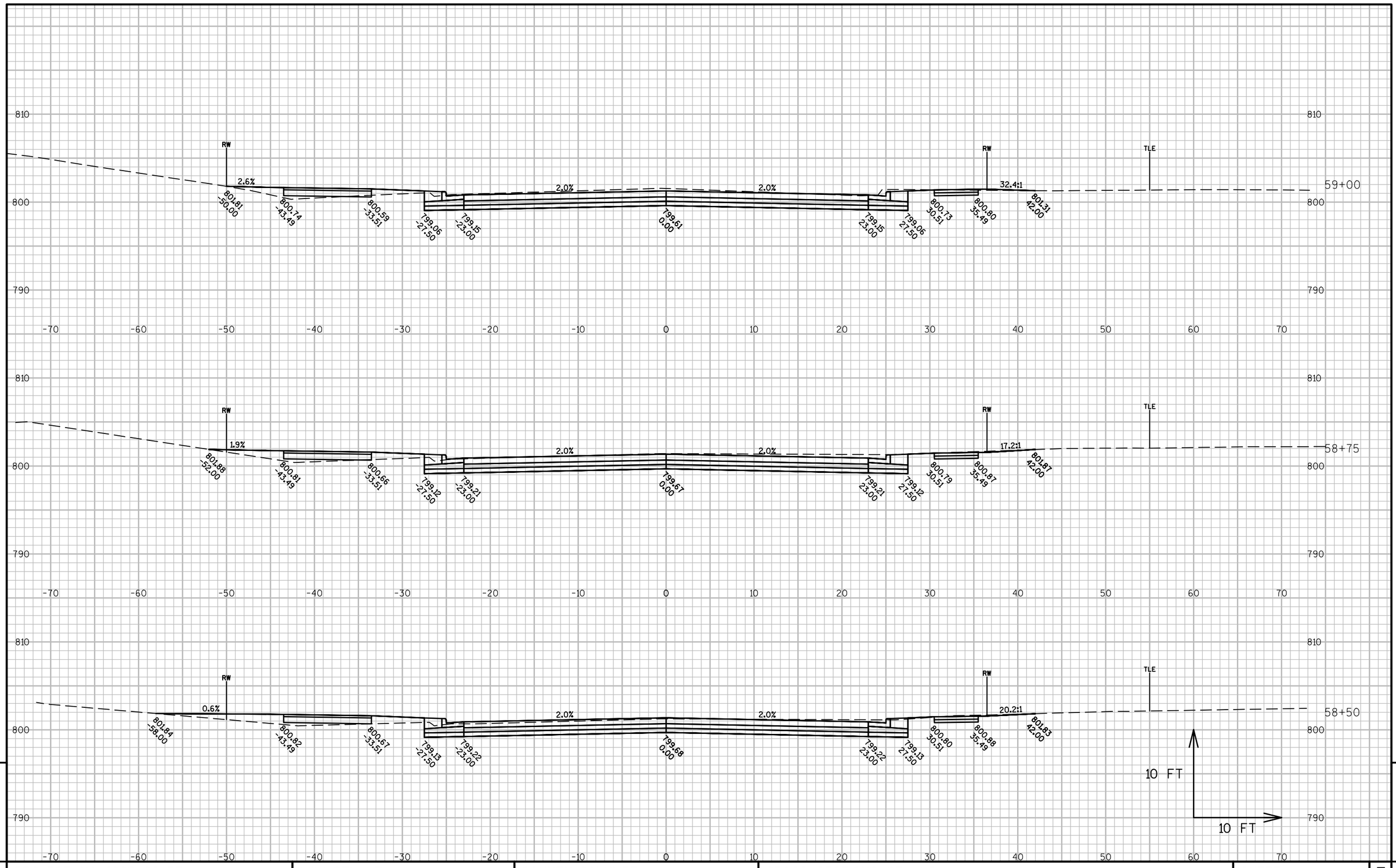
FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (43)

PLOT DATE : 4/2/2018 3:17 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 298 E

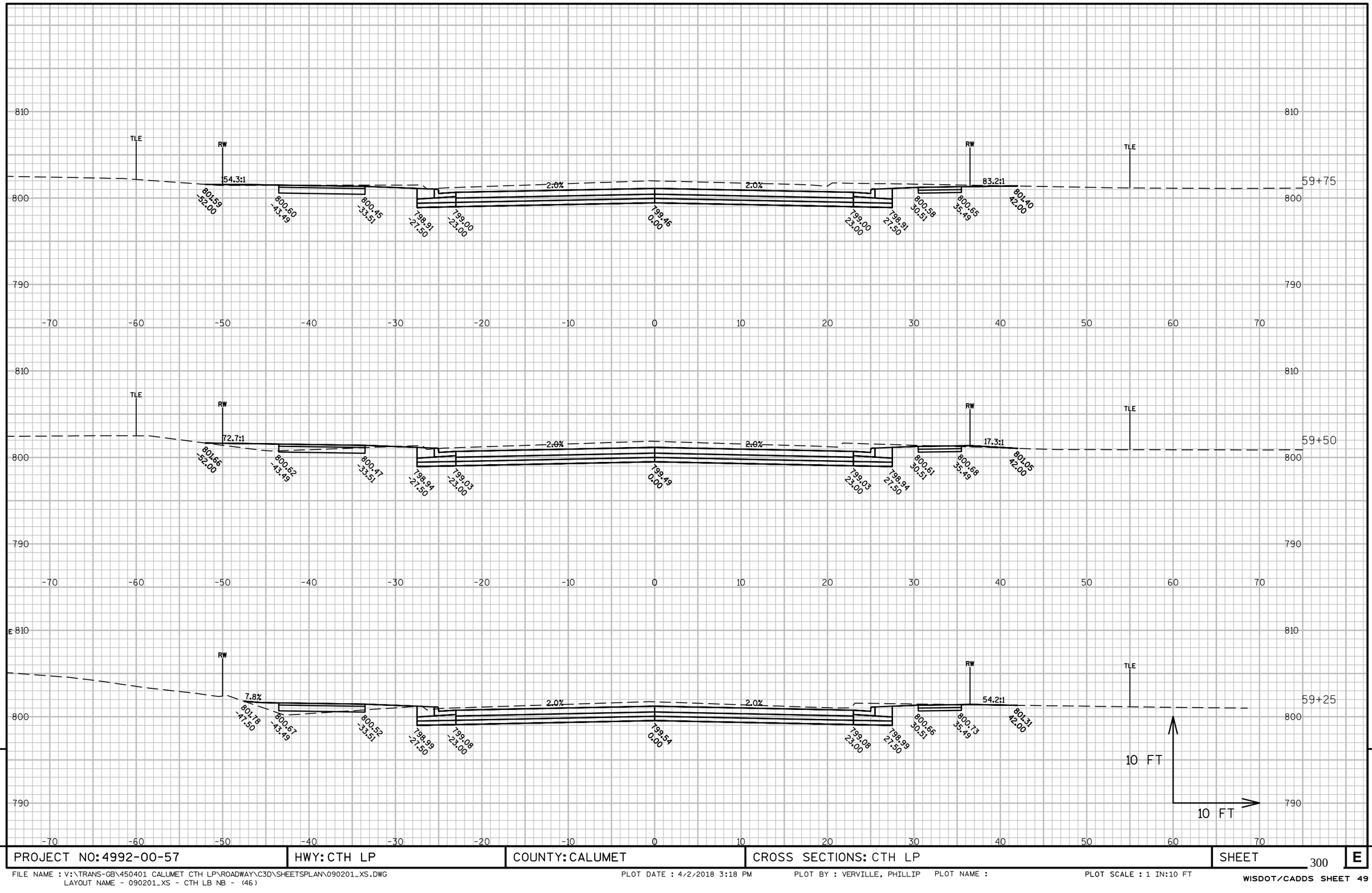


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 299	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (45)

PLOT DATE : 4/2/2018 3:17 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

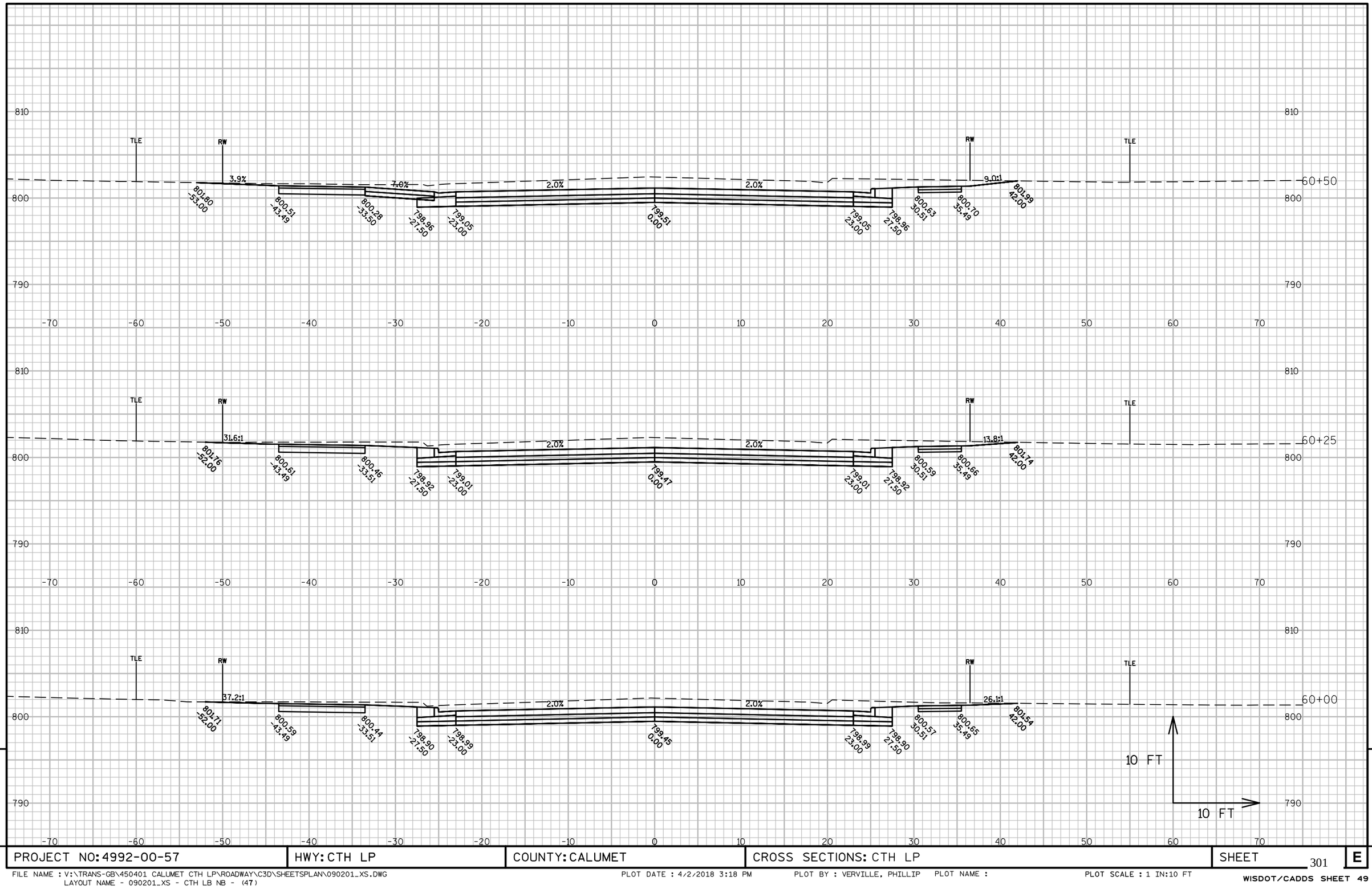


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 300 E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (46)

PLOT DATE : 4/2/2018 3:18 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

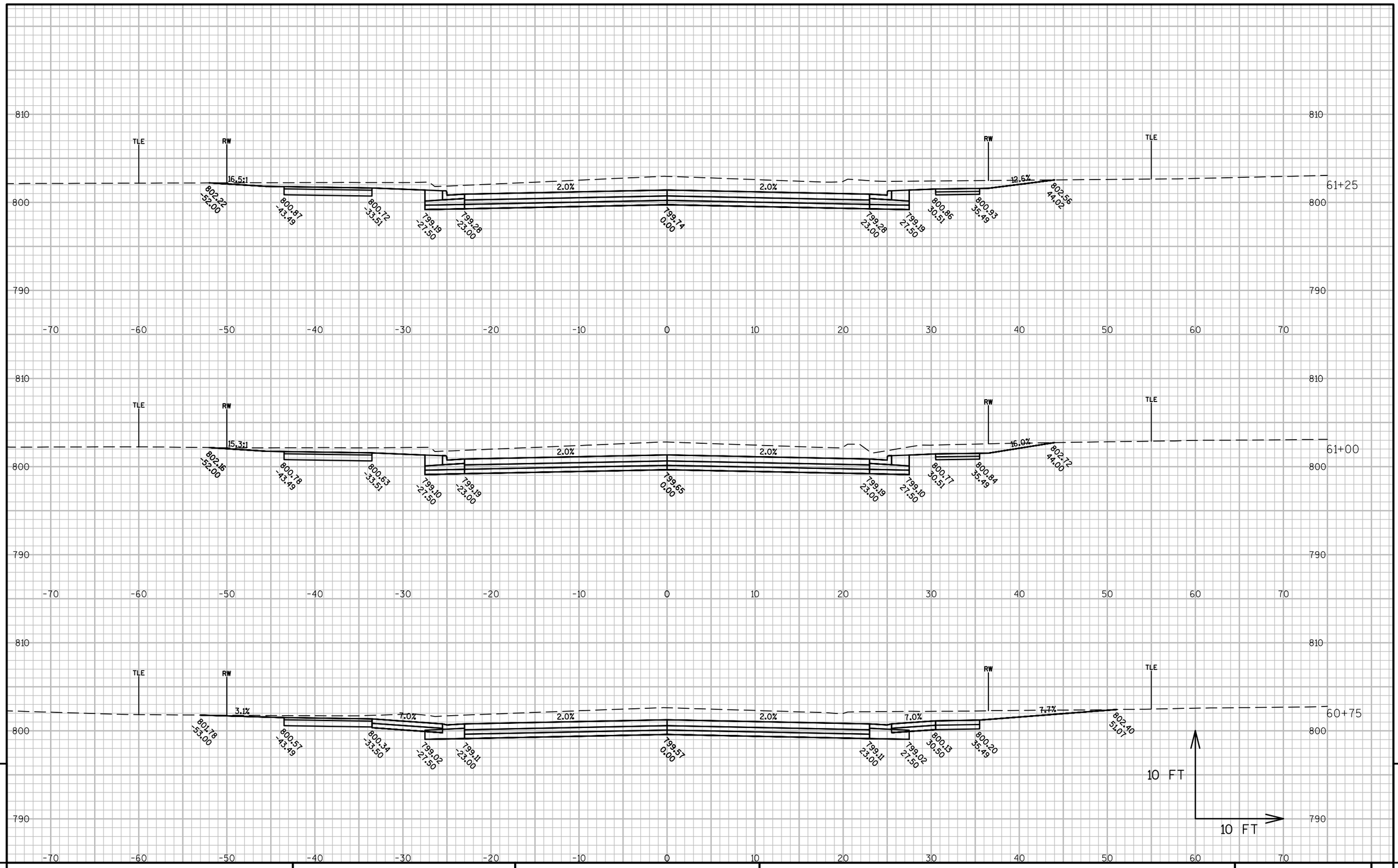
WISDOT/CADDS SHEET 49



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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 301	E

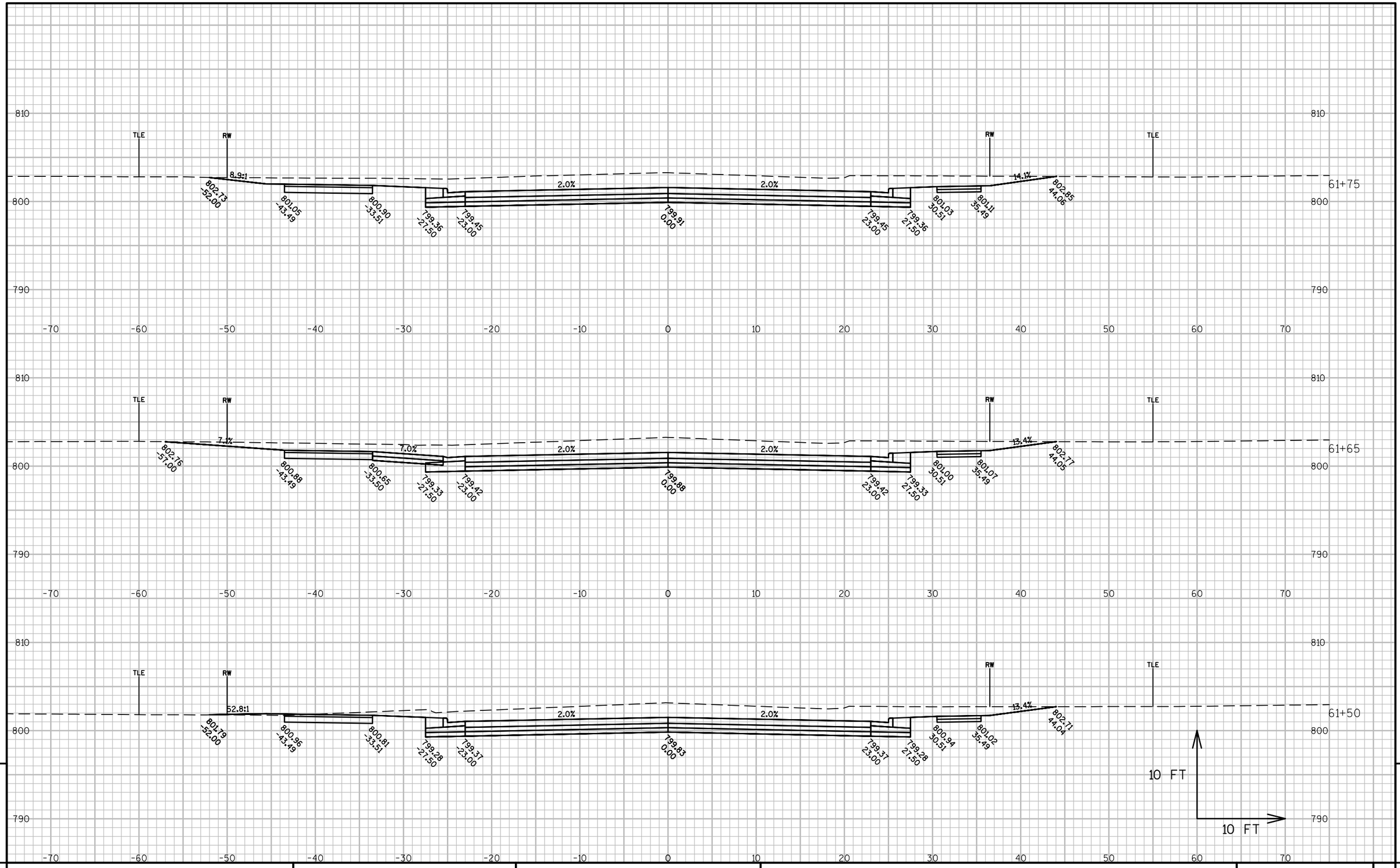


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 302	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (48)

PLOT DATE : 4/2/2018 3:19 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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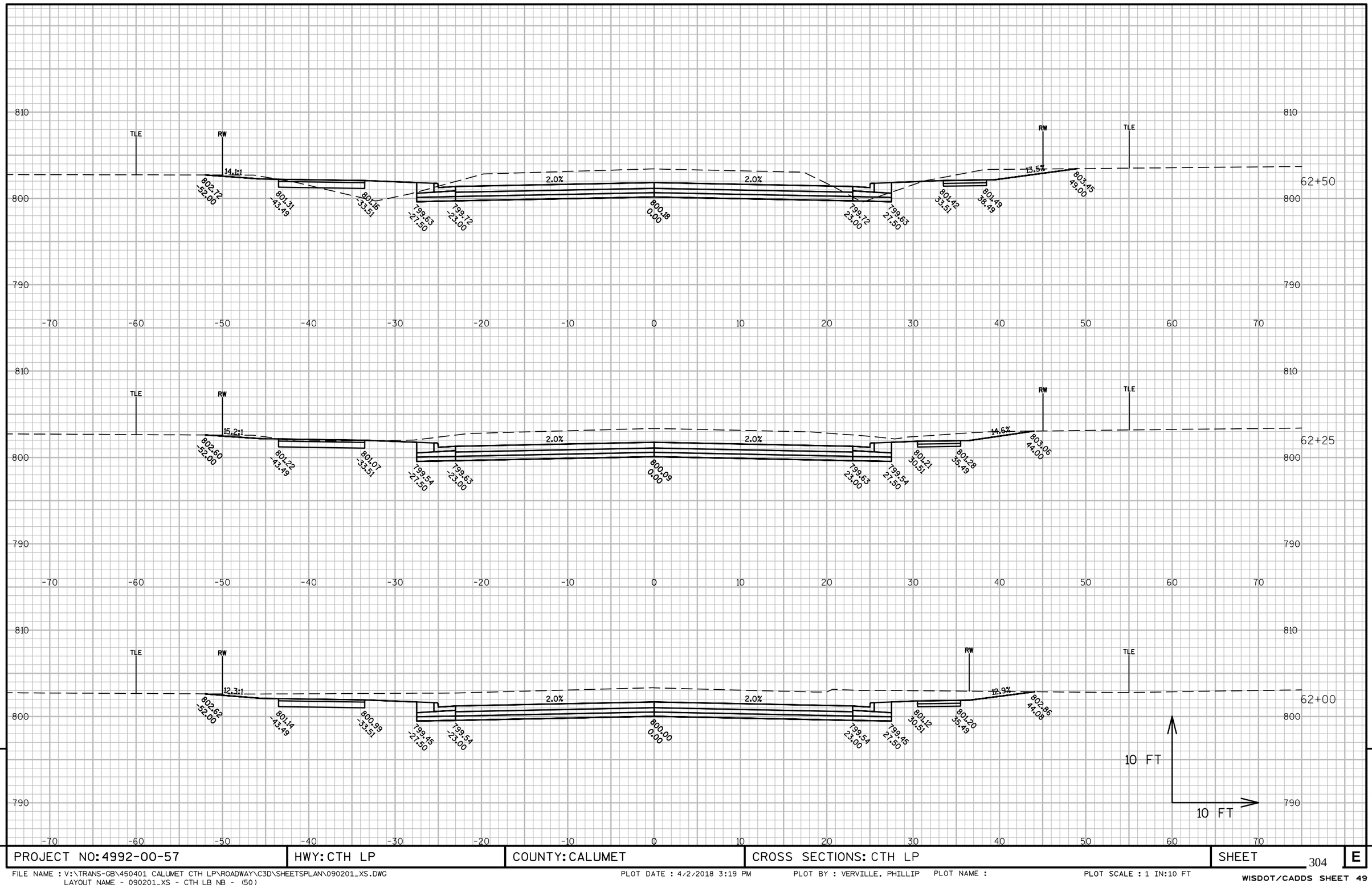
9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 303	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (49)

PLOT DATE : 4/2/2018 3:19 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



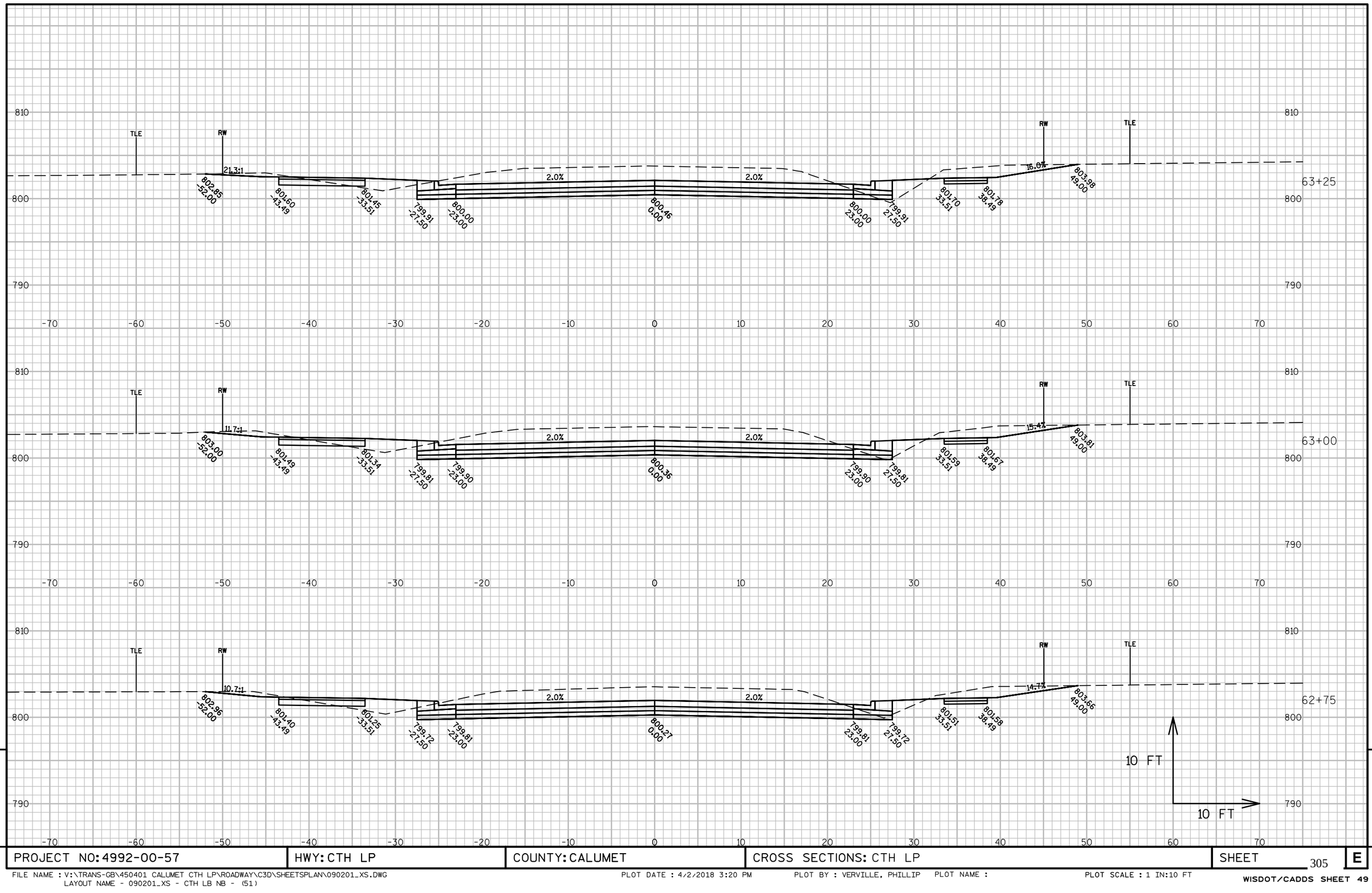
9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 304	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (50)

PLOT DATE : 4/2/2018 3:19 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

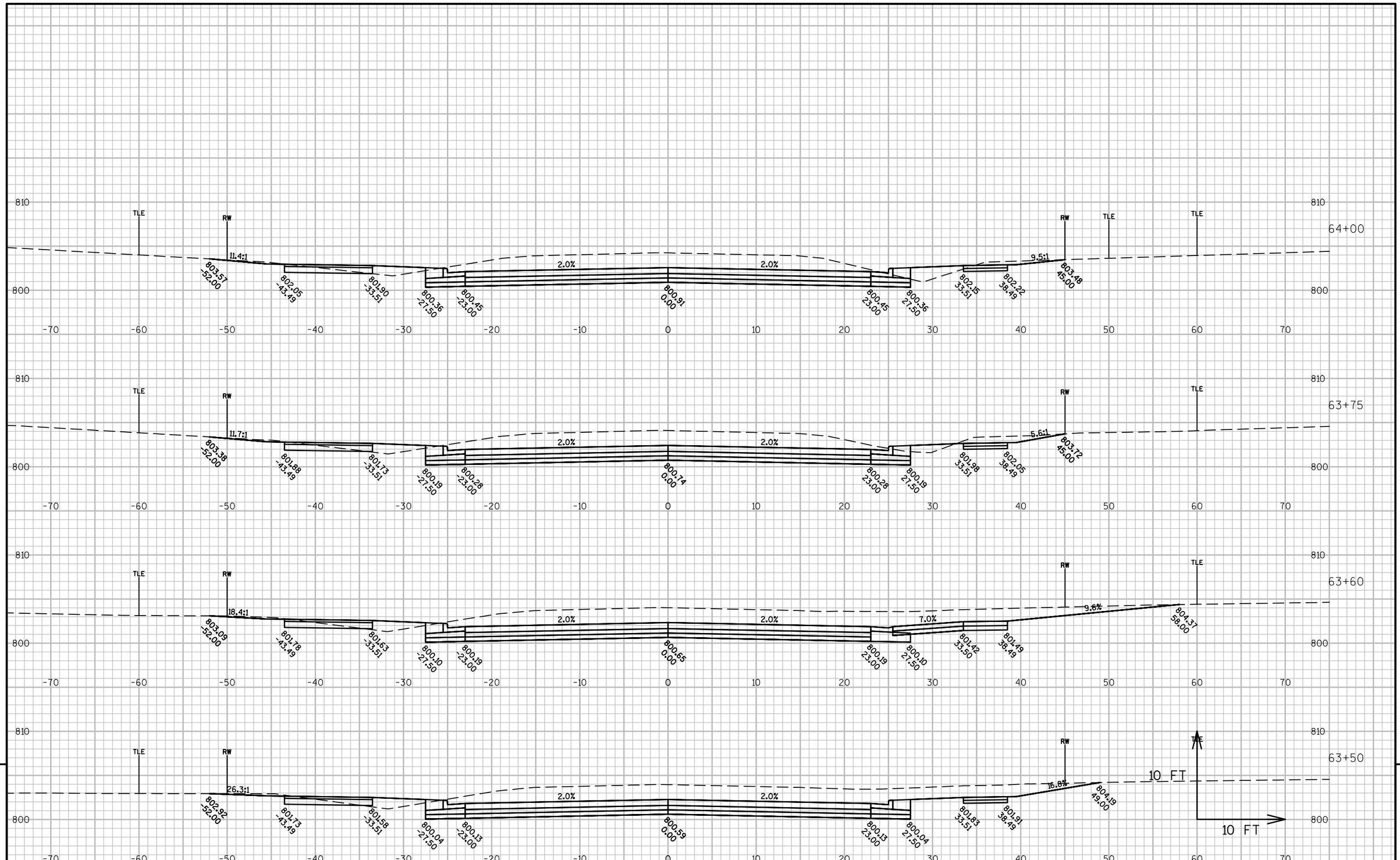
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 305	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (51)

PLOT DATE : 4/2/2018 3:20 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

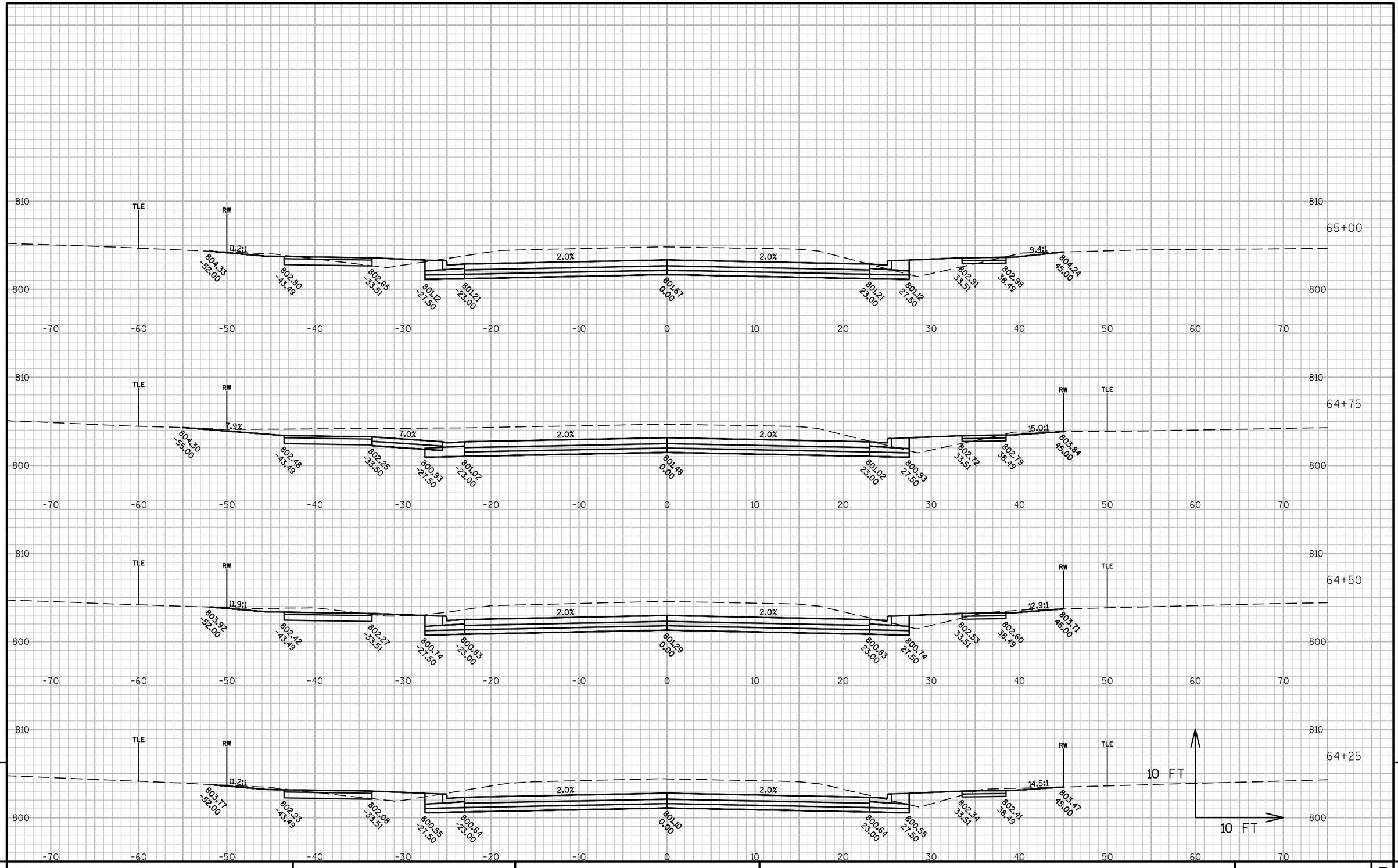


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 306	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (52)

PLOT DATE : 4/2/2018 3:20 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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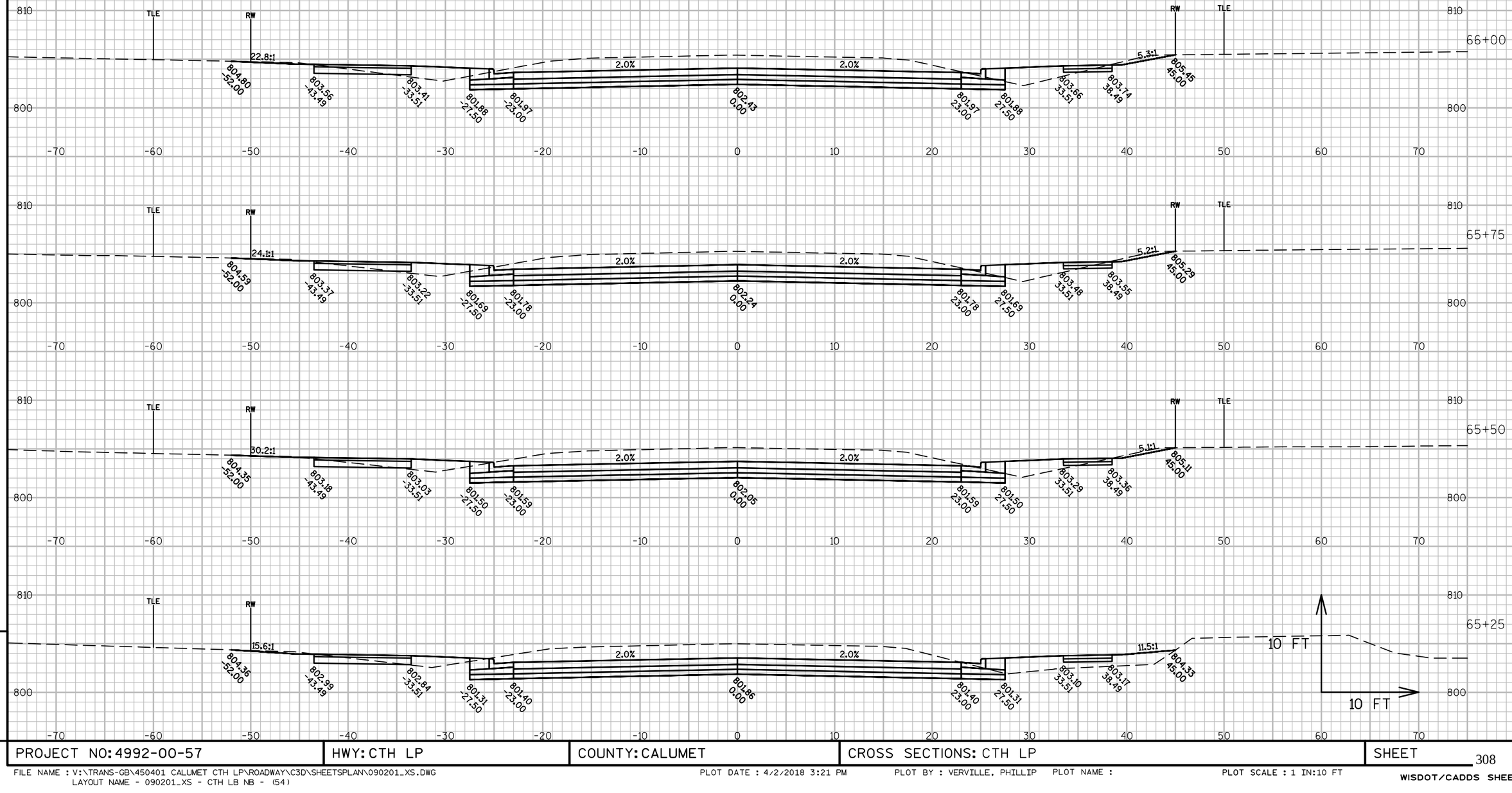
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 307	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (53)

PLOT DATE : 4/2/2018 3:21 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

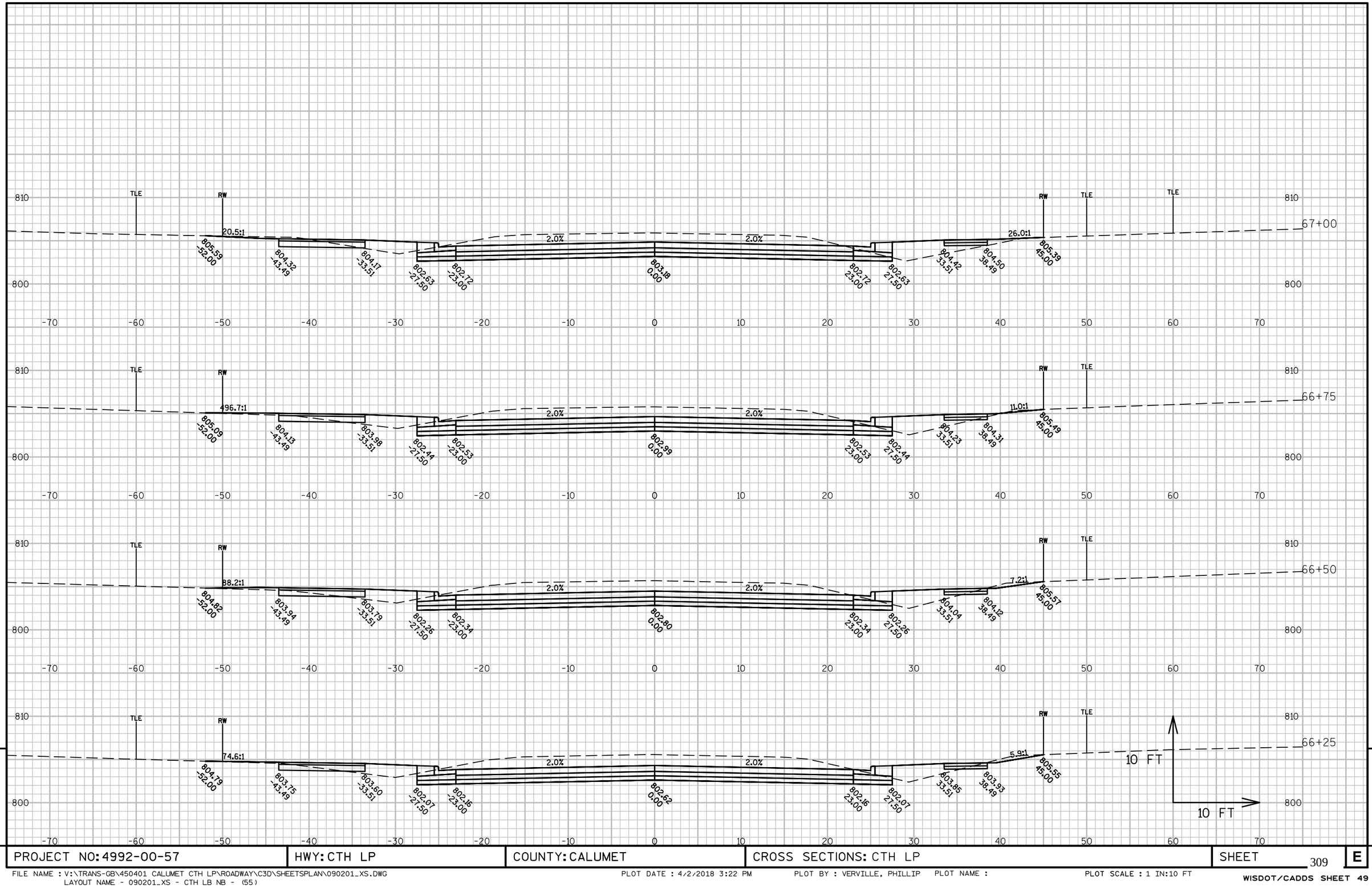
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 308	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (54)

PLOT DATE : 4/2/2018 3:21 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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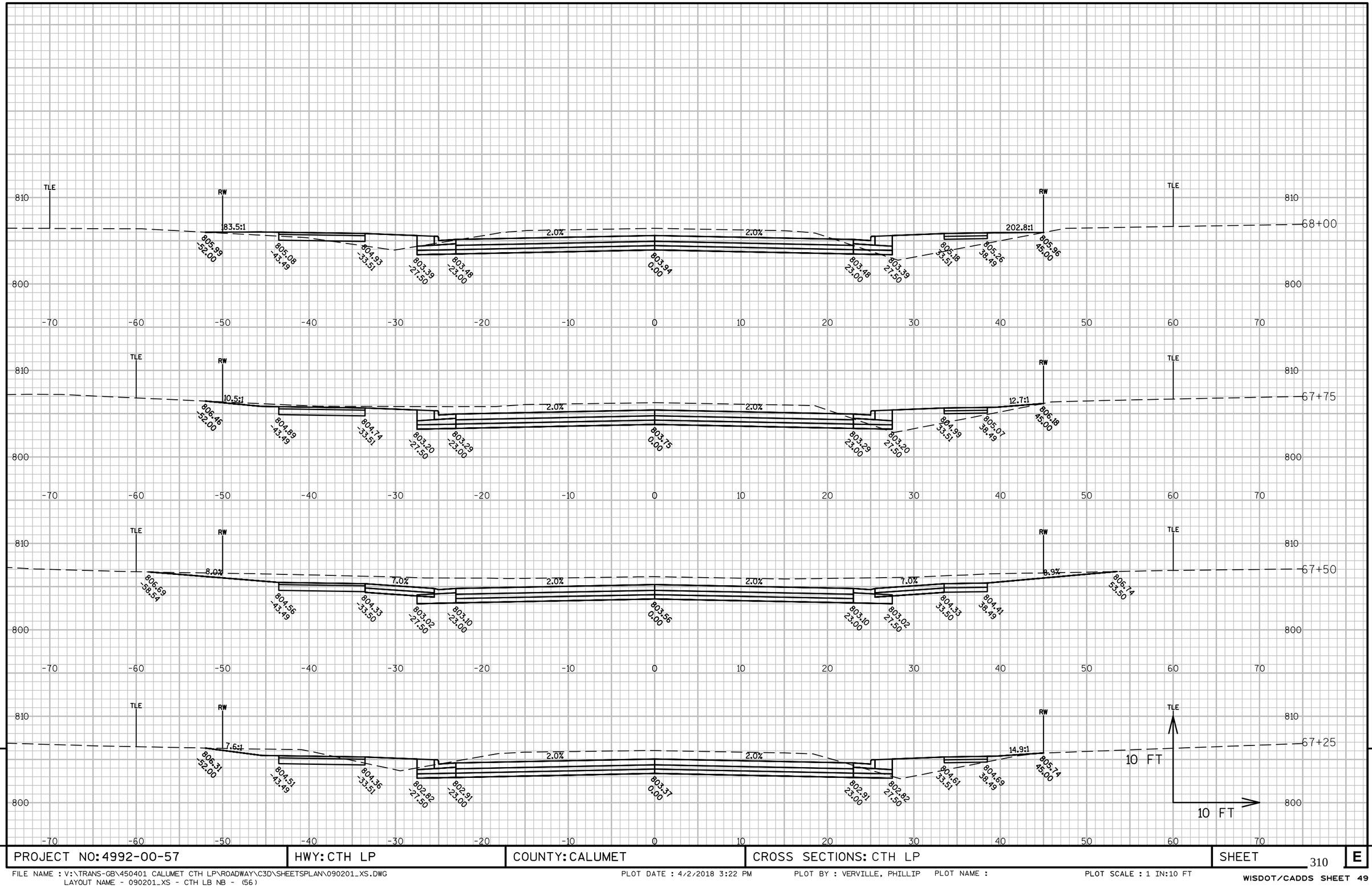
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 309	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (55)

PLOT DATE : 4/2/2018 3:22 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

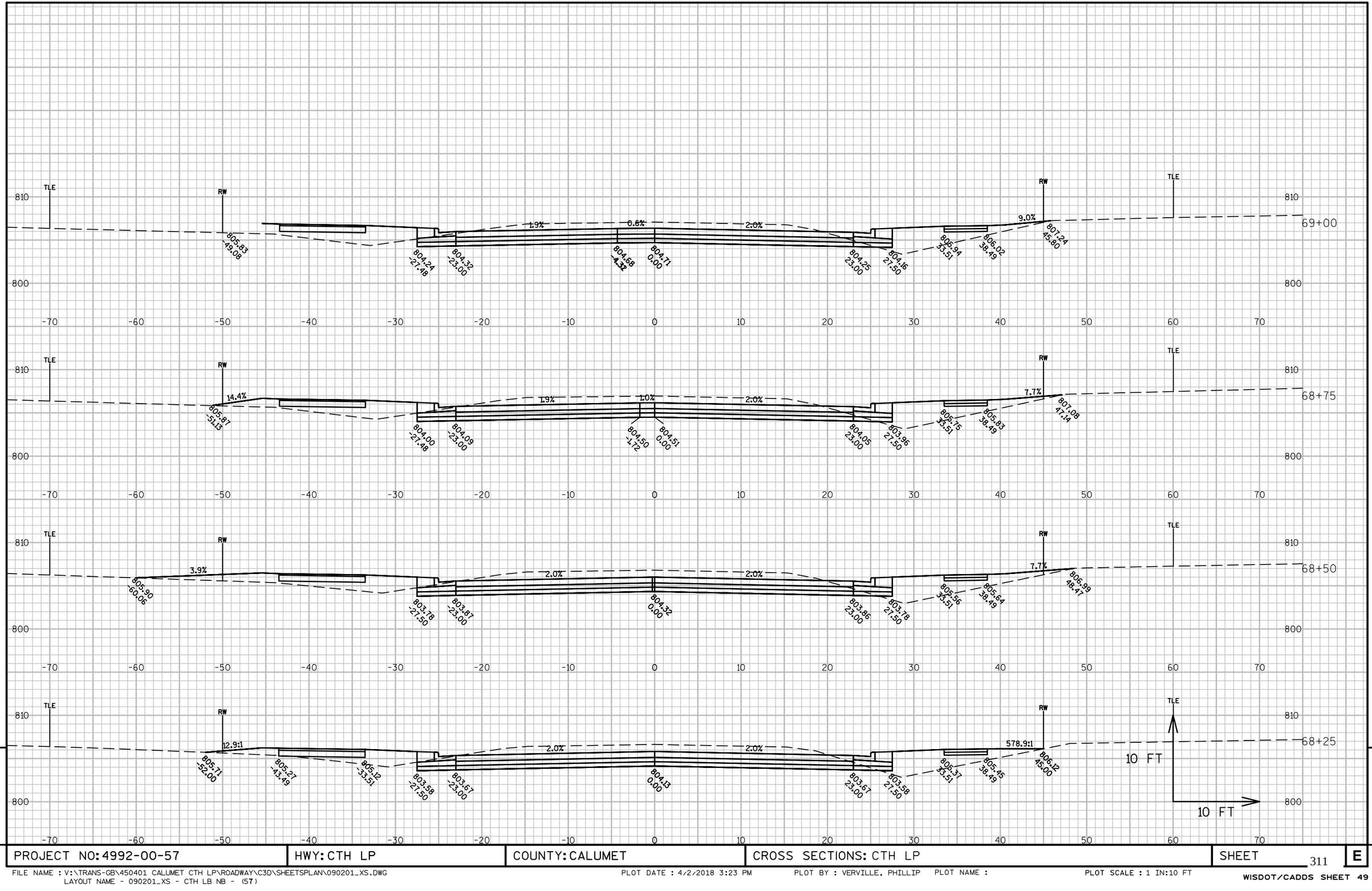
WISDOT/CADDS SHEET 49



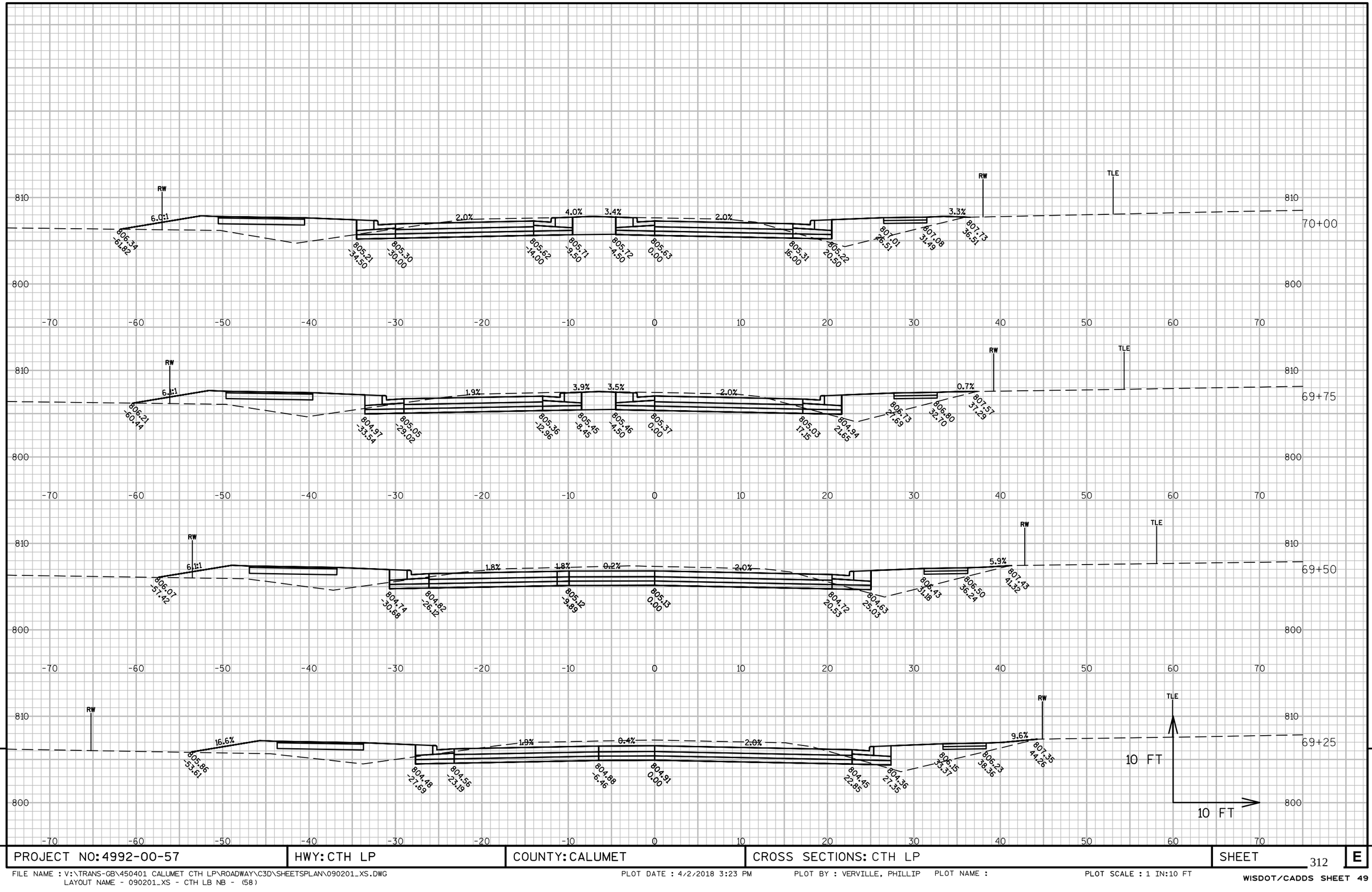
9

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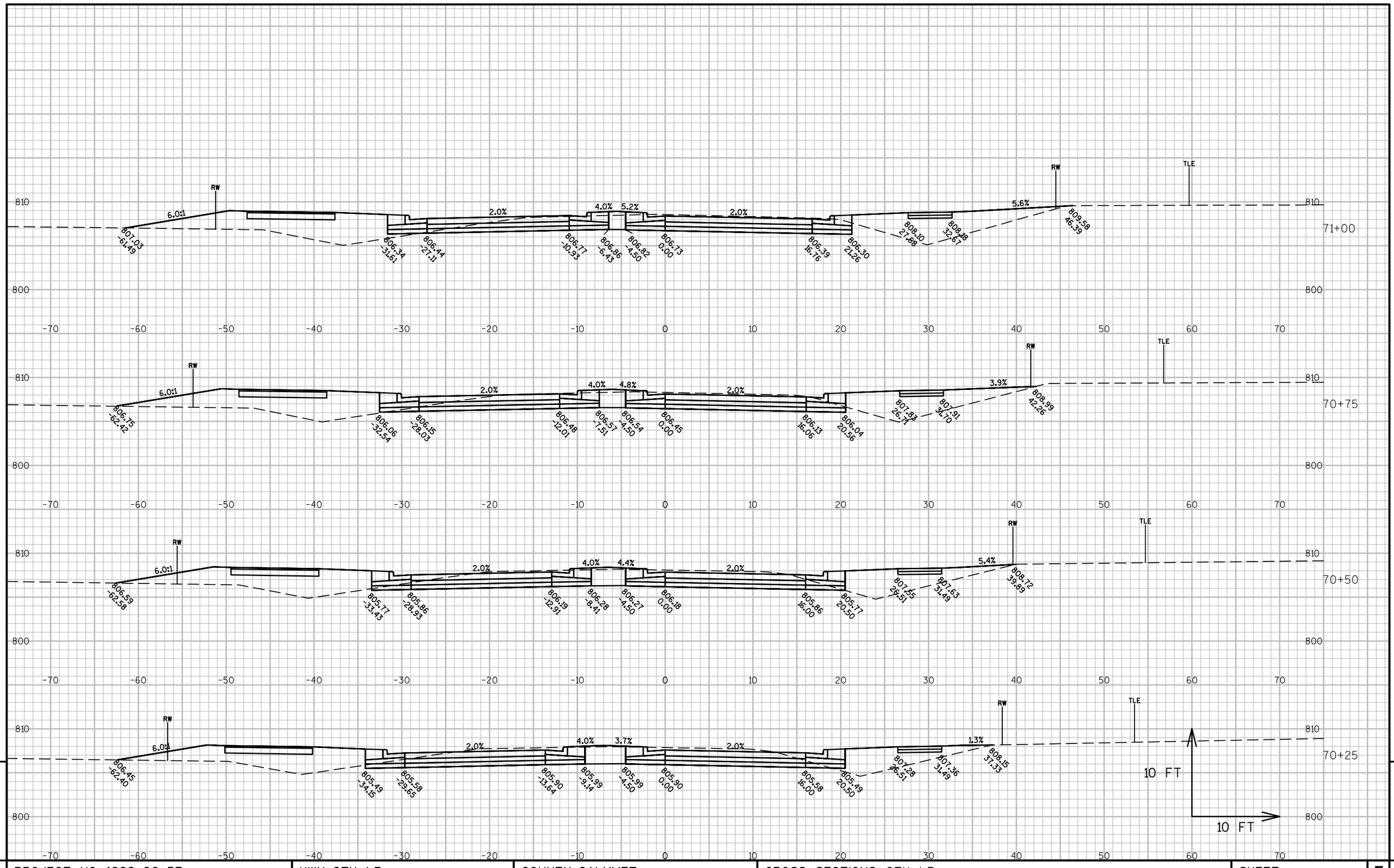
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 310	E



9	PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 311 E



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 312	E

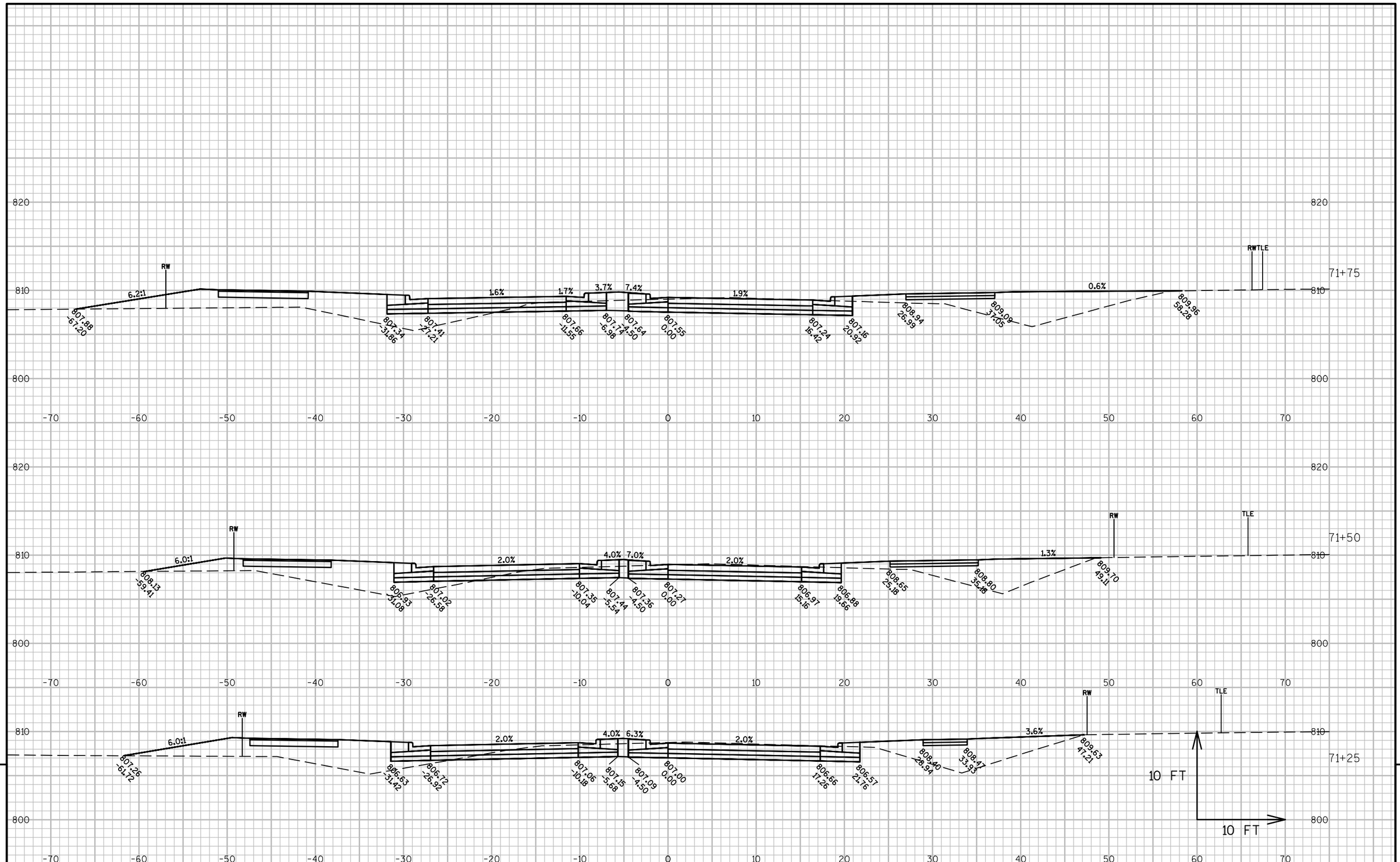


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 313	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (59)

PLOT DATE : 4/2/2018 3:23 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

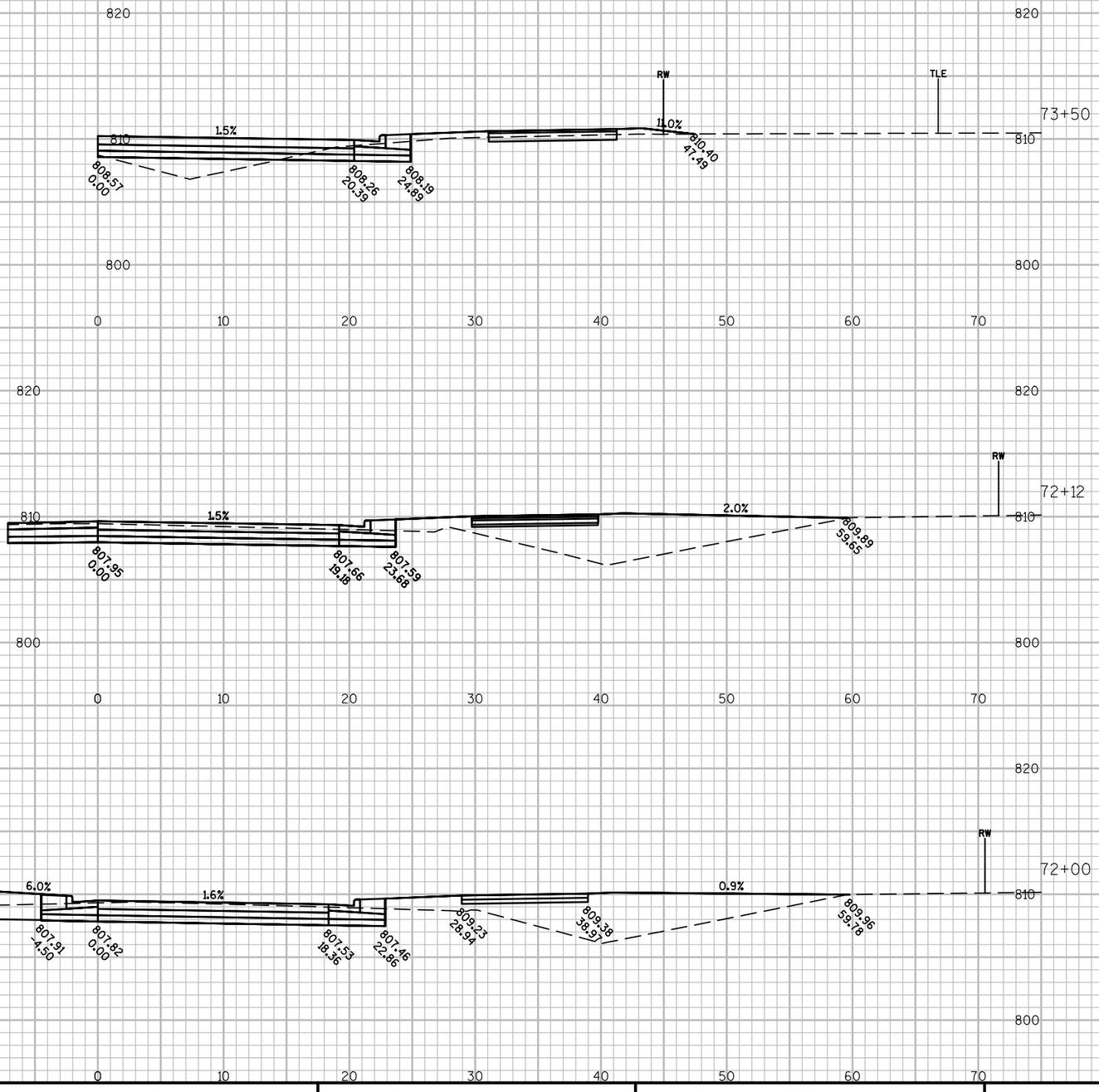


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 314	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (60)

PLOT DATE : 4/2/2018 3:24 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

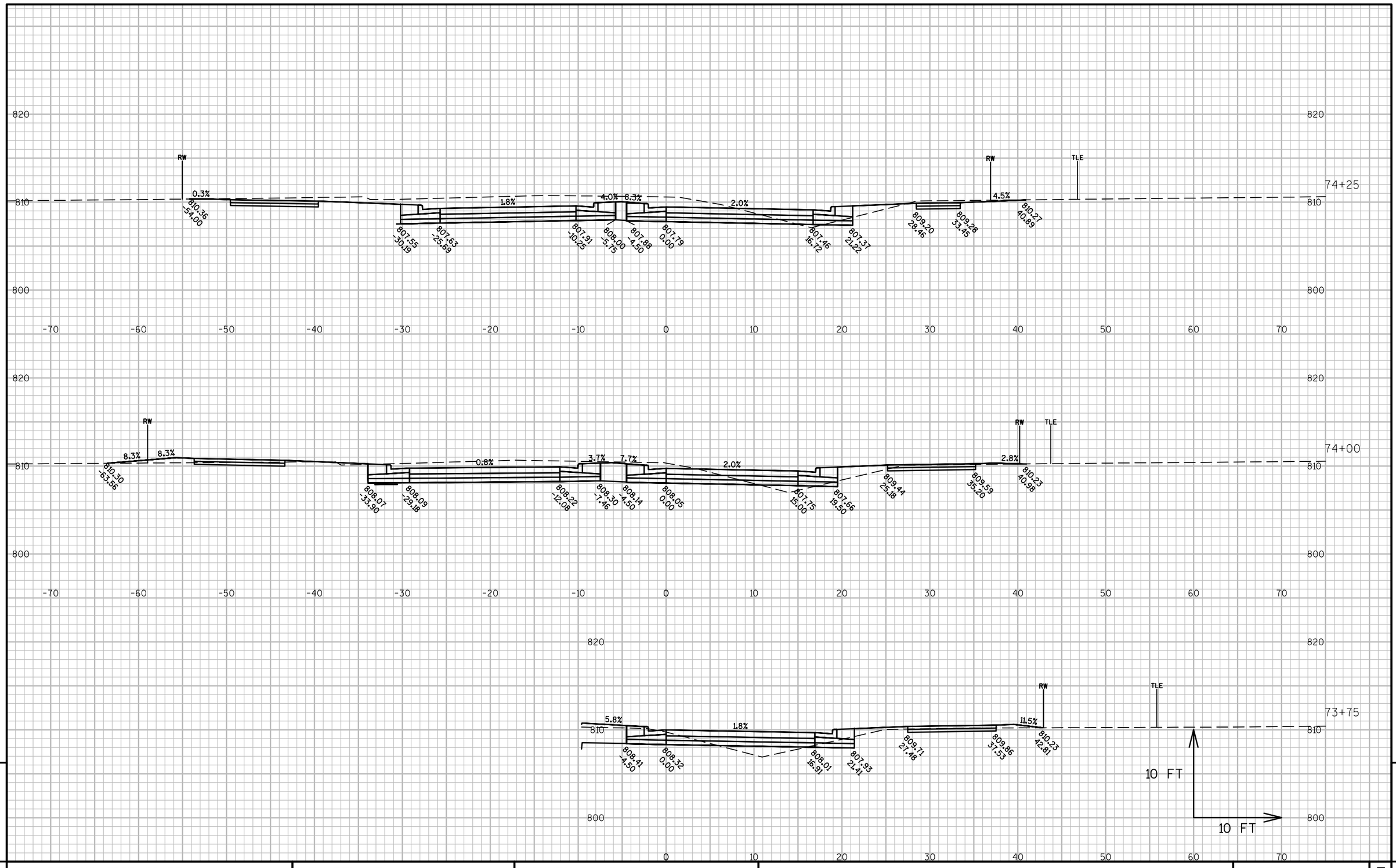
9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 315	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (61)

PLOT DATE : 4/2/2018 3:24 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

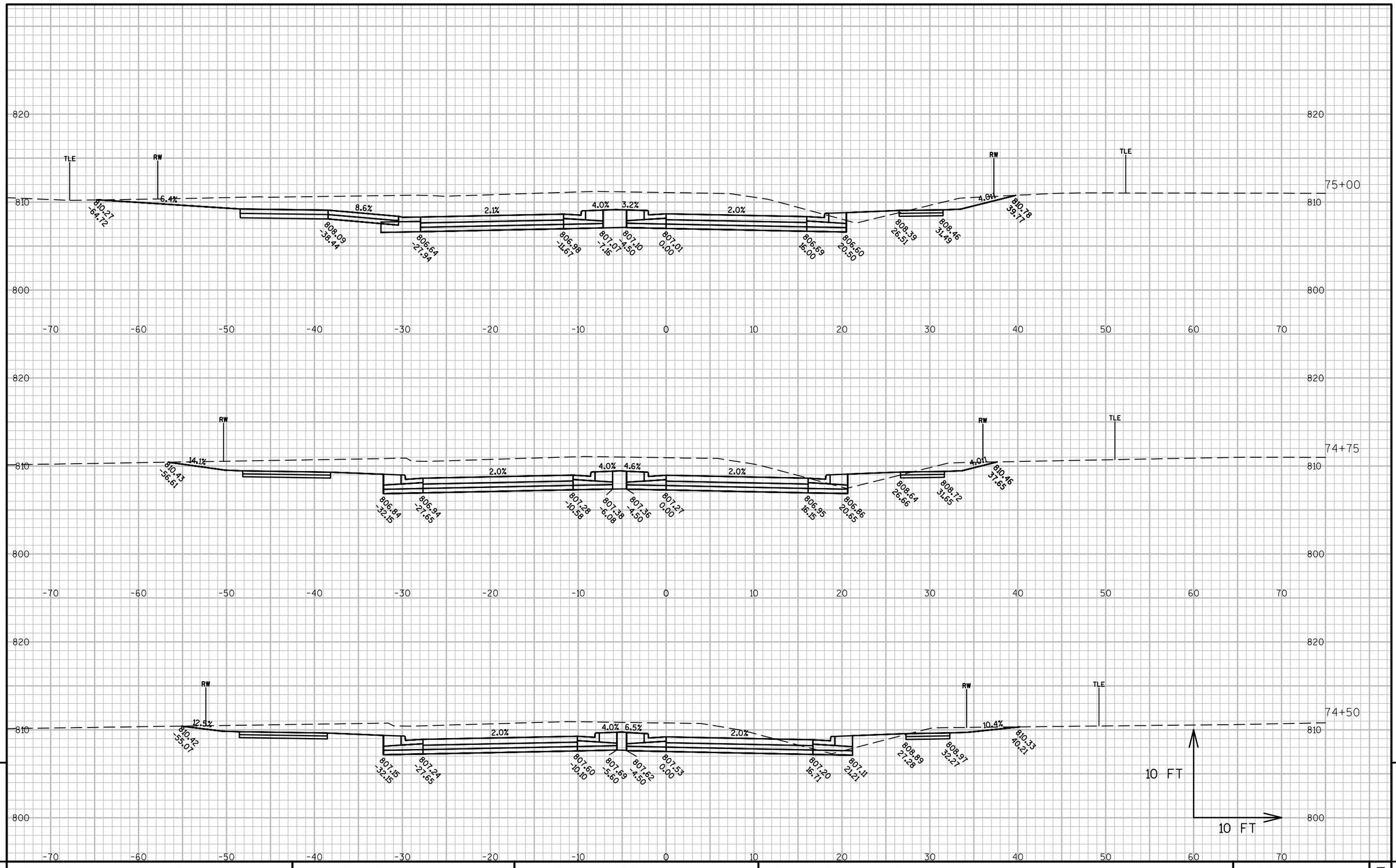


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 316	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (62)

PLOT DATE : 4/2/2018 3:25 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



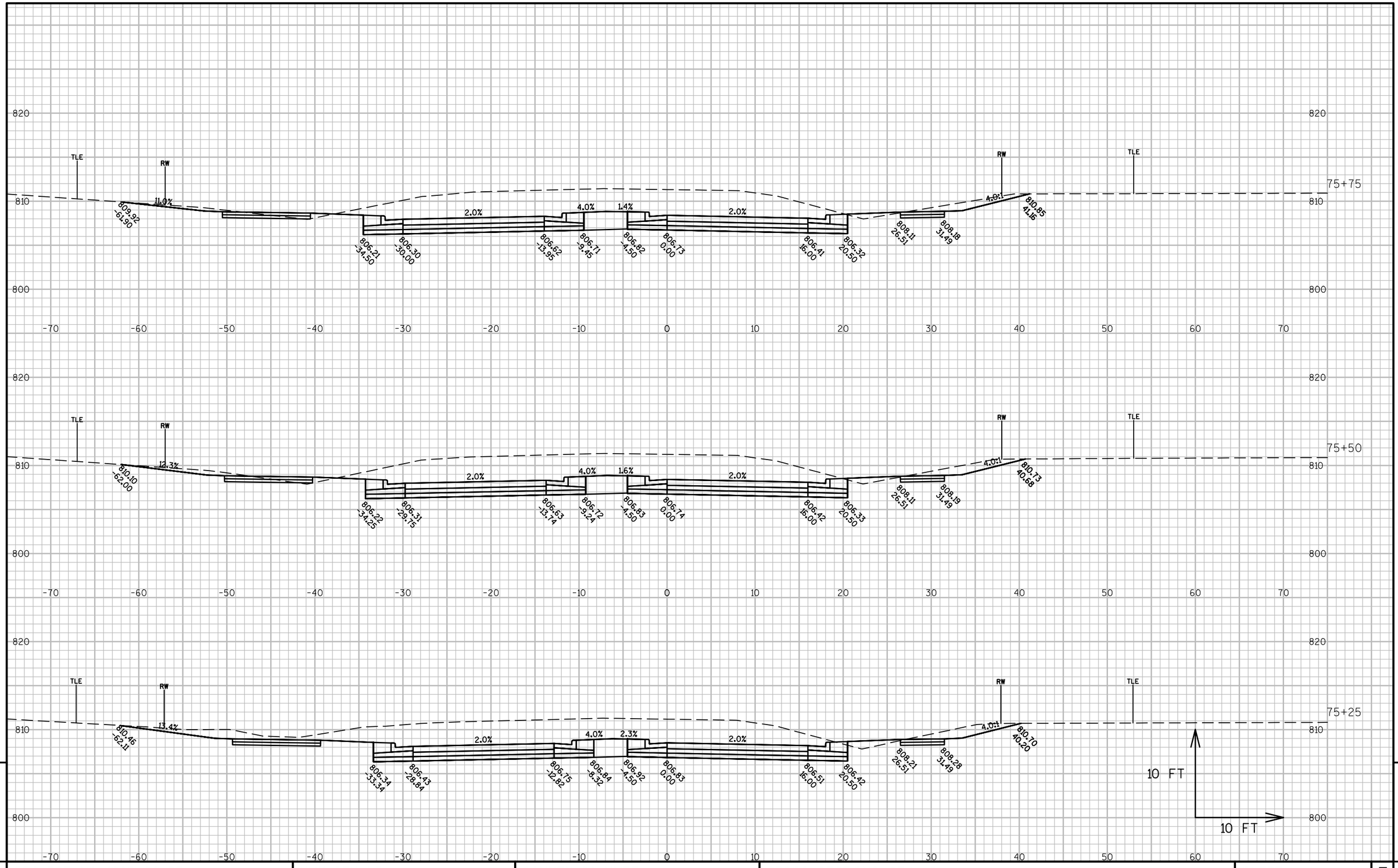
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 317	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (63)

PLOT DATE : 4/2/2018 3:25 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

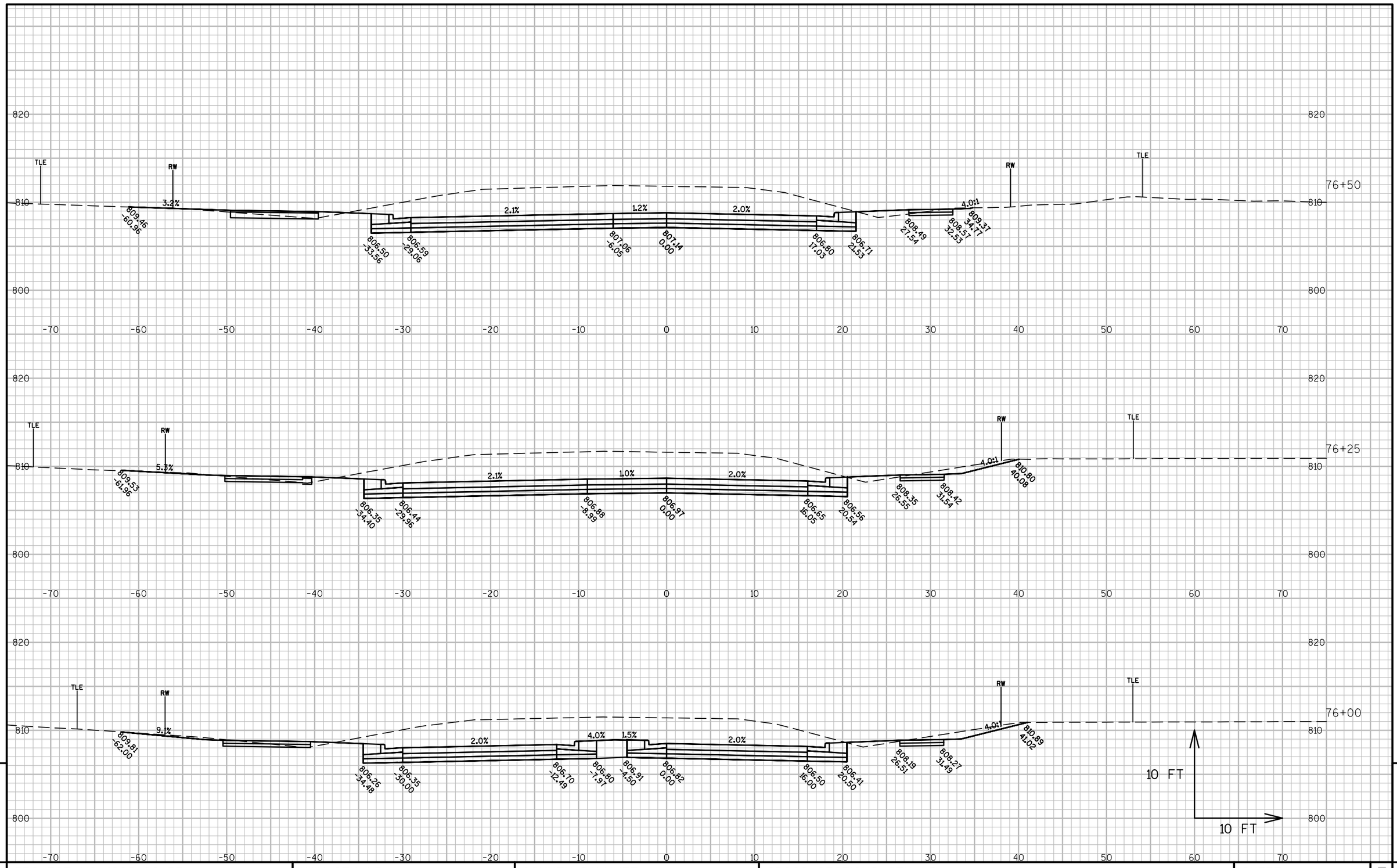
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 318	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (64)

PLOT DATE : 4/2/2018 3:25 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

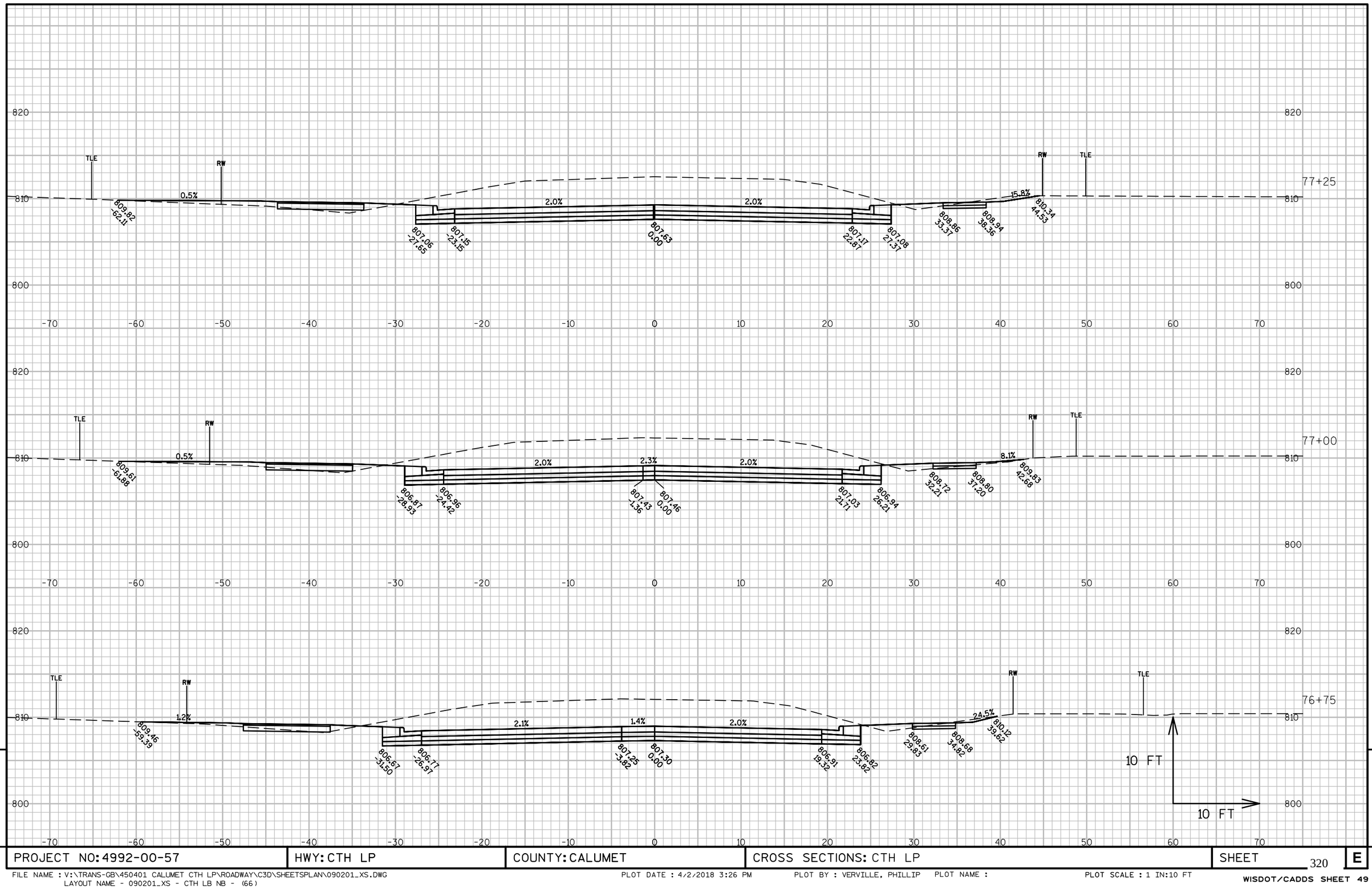
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 319	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (65)

PLOT DATE : 4/2/2018 3:26 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

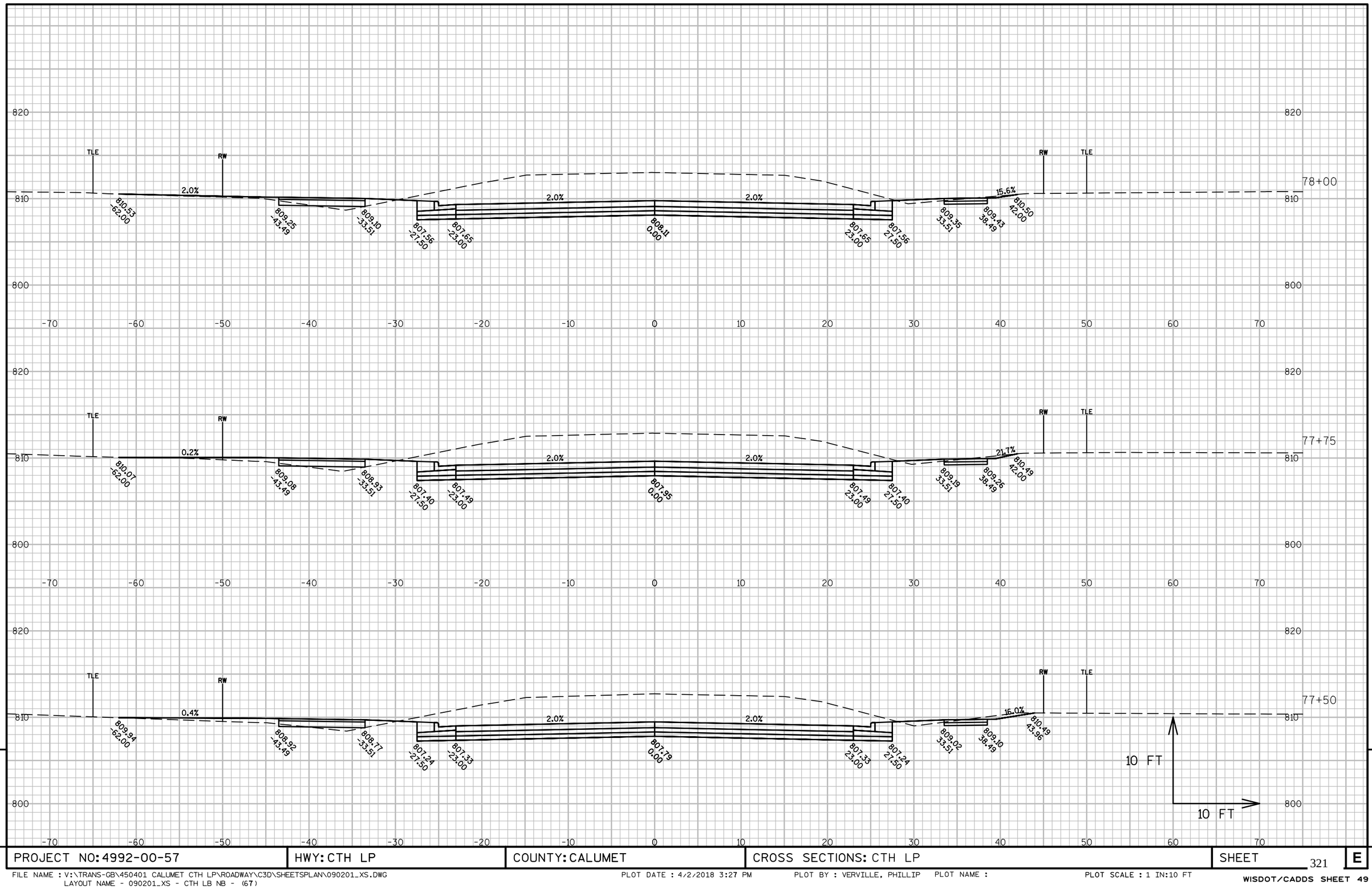


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 320	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (66)

PLOT DATE : 4/2/2018 3:26 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

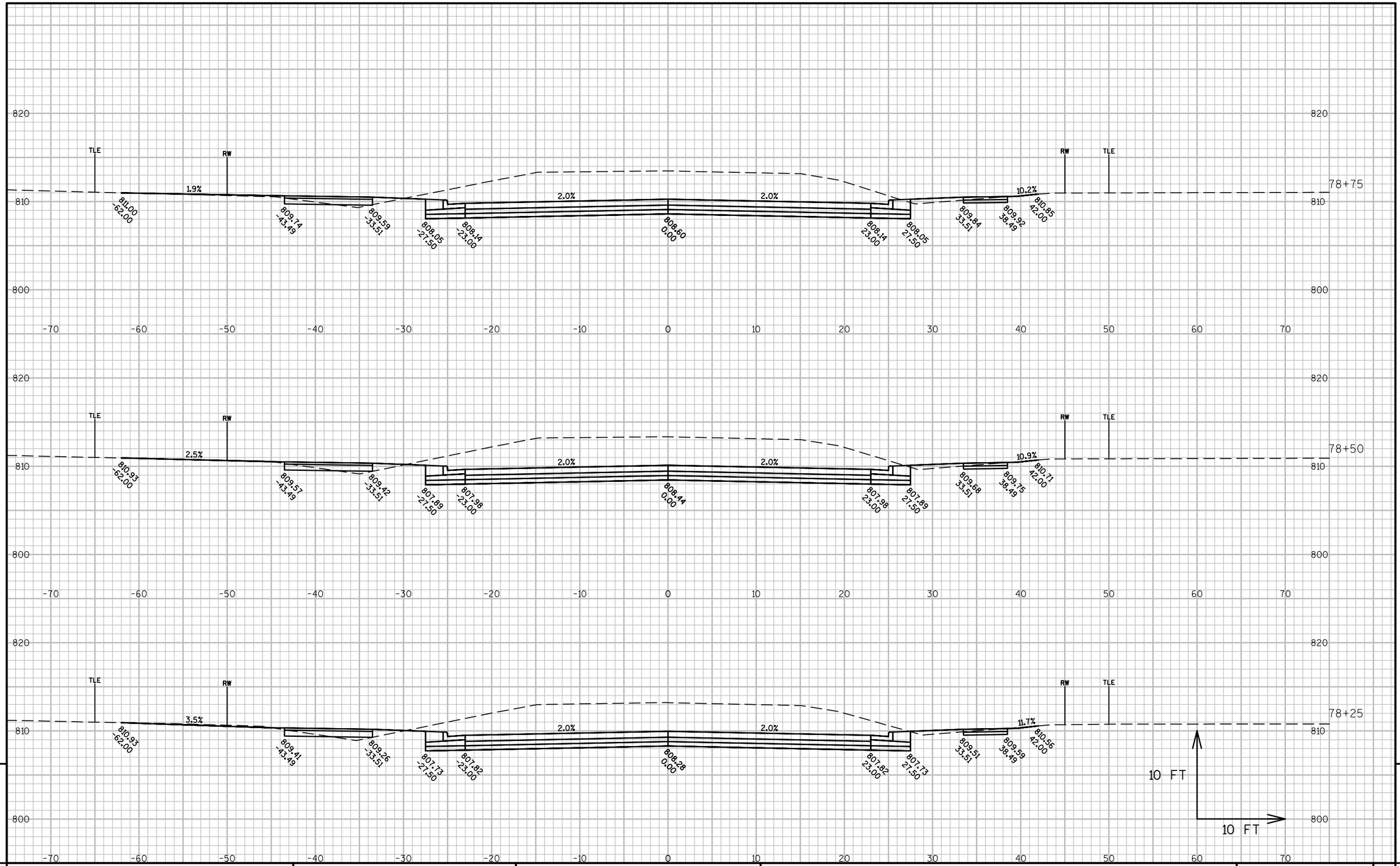


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 321	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (67)

PLOT DATE : 4/2/2018 3:27 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

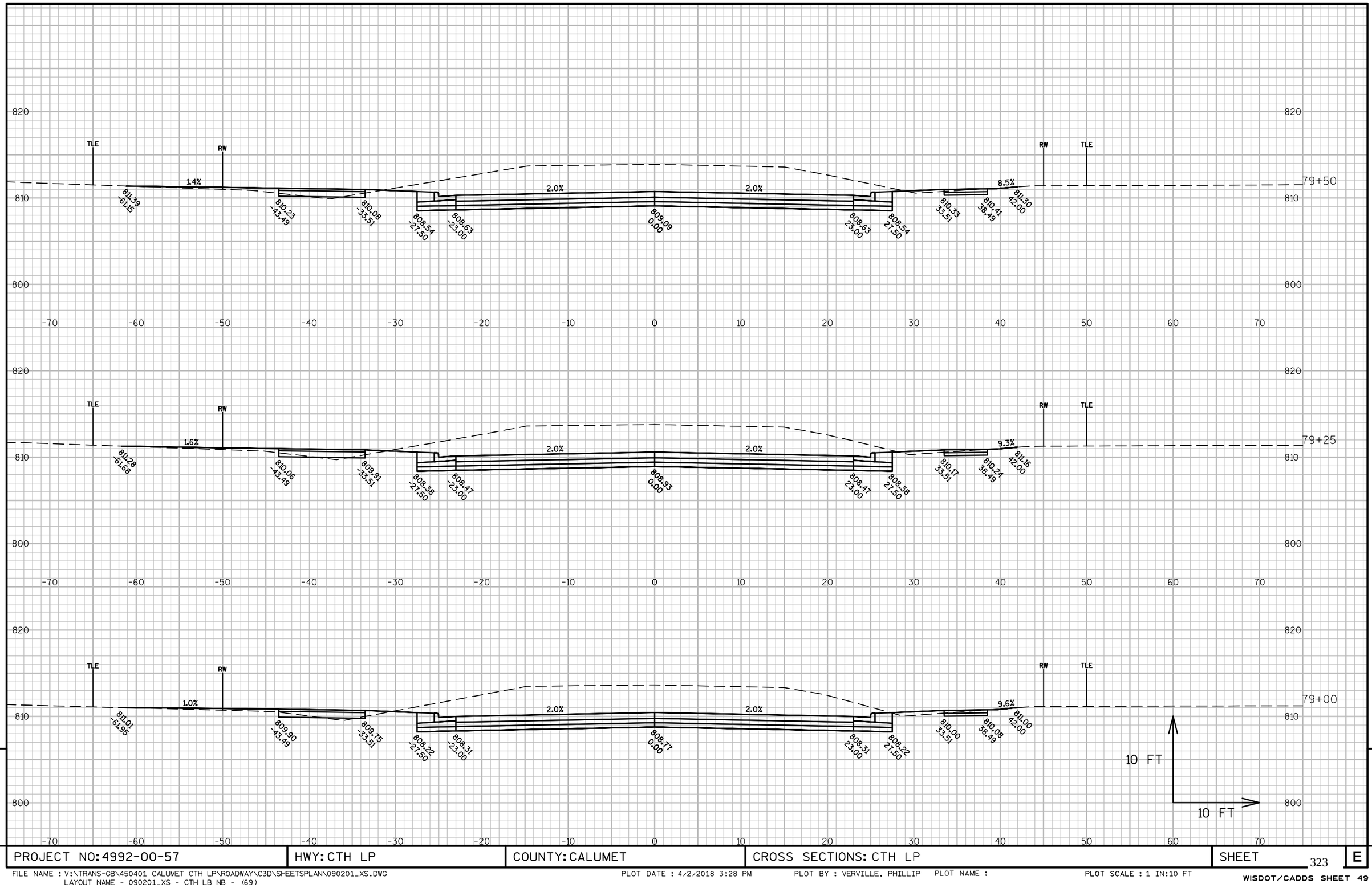


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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 322	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (68)
PLOT DATE : 4/2/2018 3:27 PM
PLOT BY : VERVILLE, PHILLIP
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

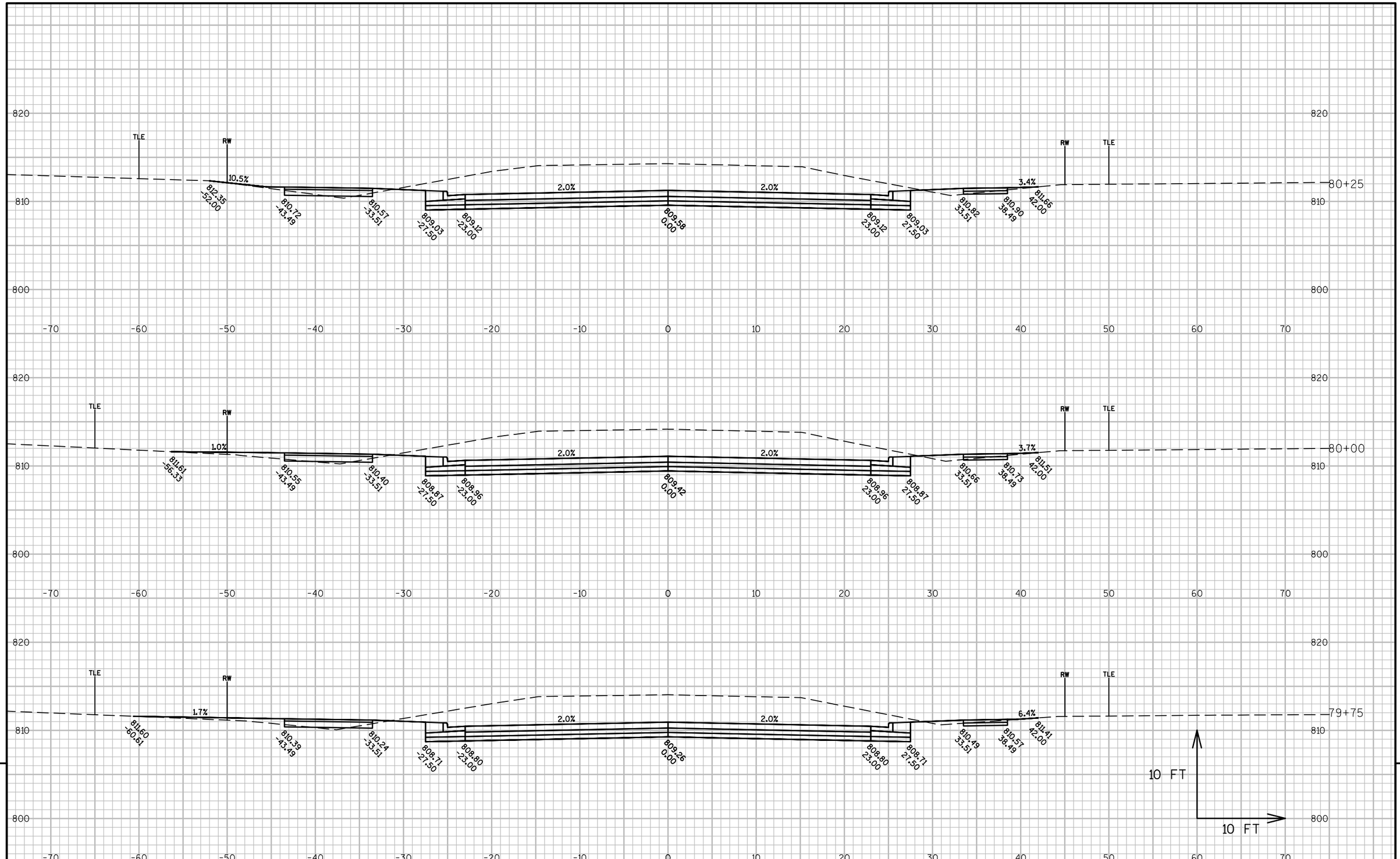


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 323	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (69)

PLOT DATE : 4/2/2018 3:28 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

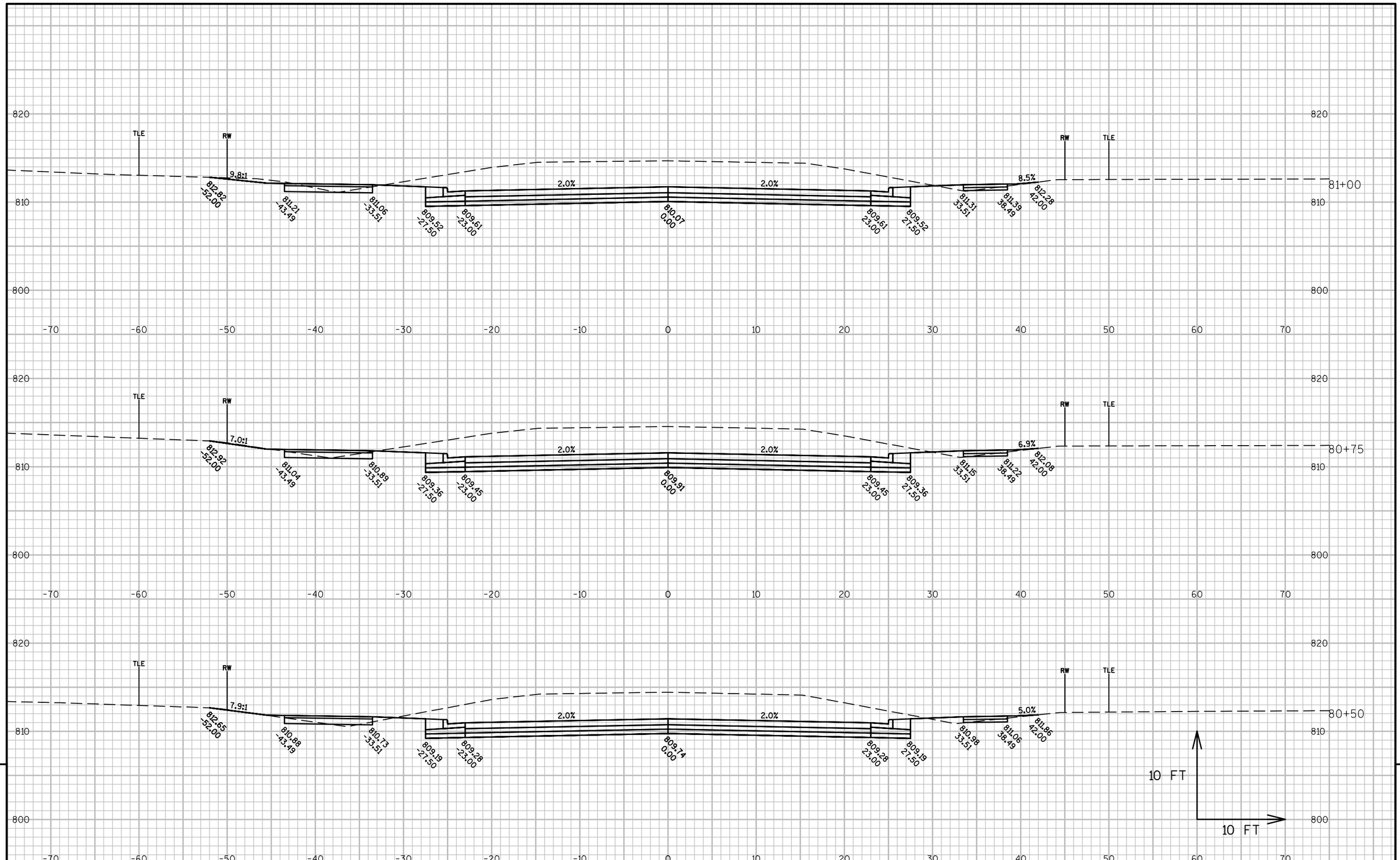


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 324 E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (70)

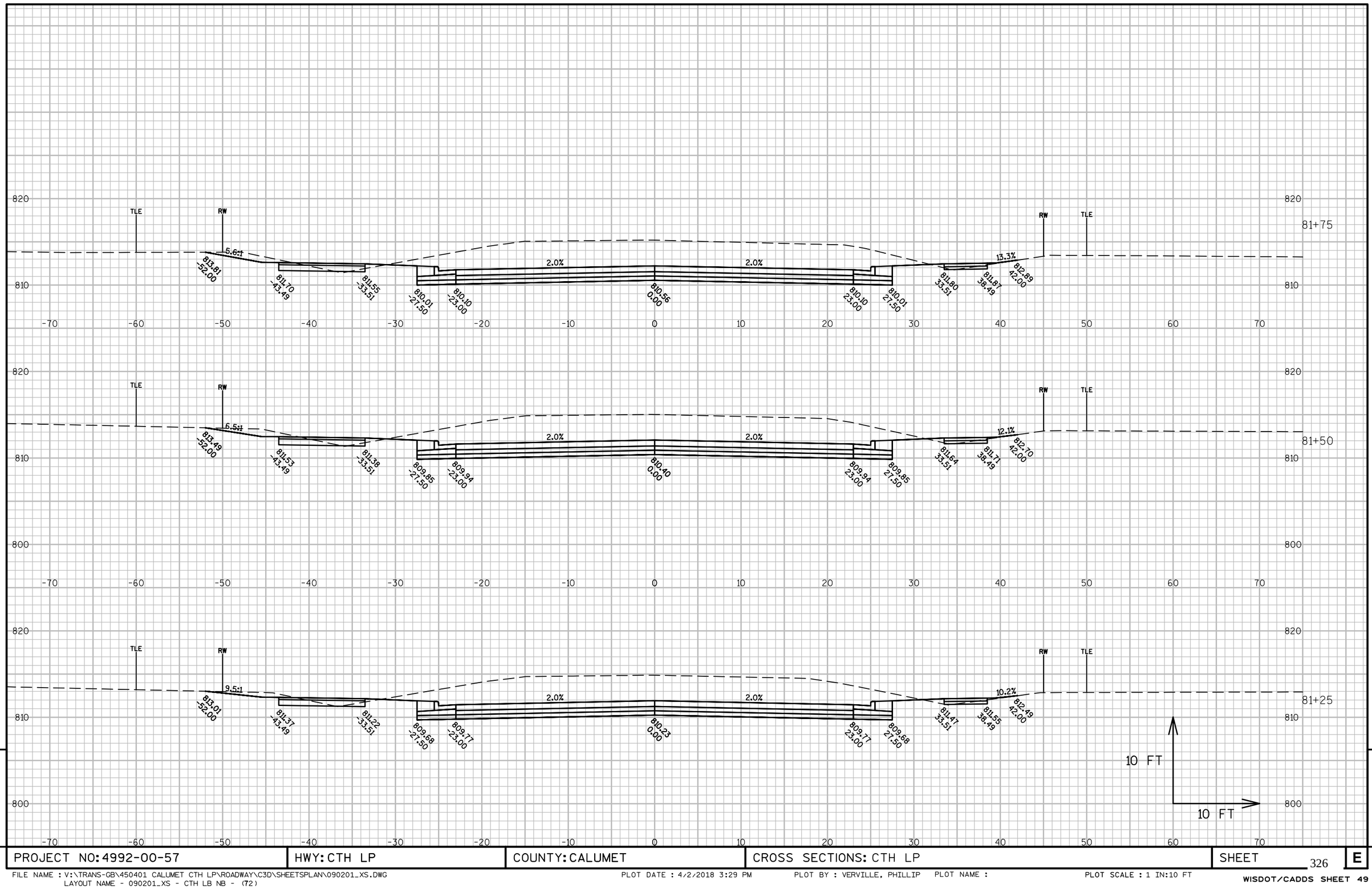
PLOT DATE : 4/2/2018 3:28 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 325	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (71)
PLOT DATE : 4/2/2018 3:28 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

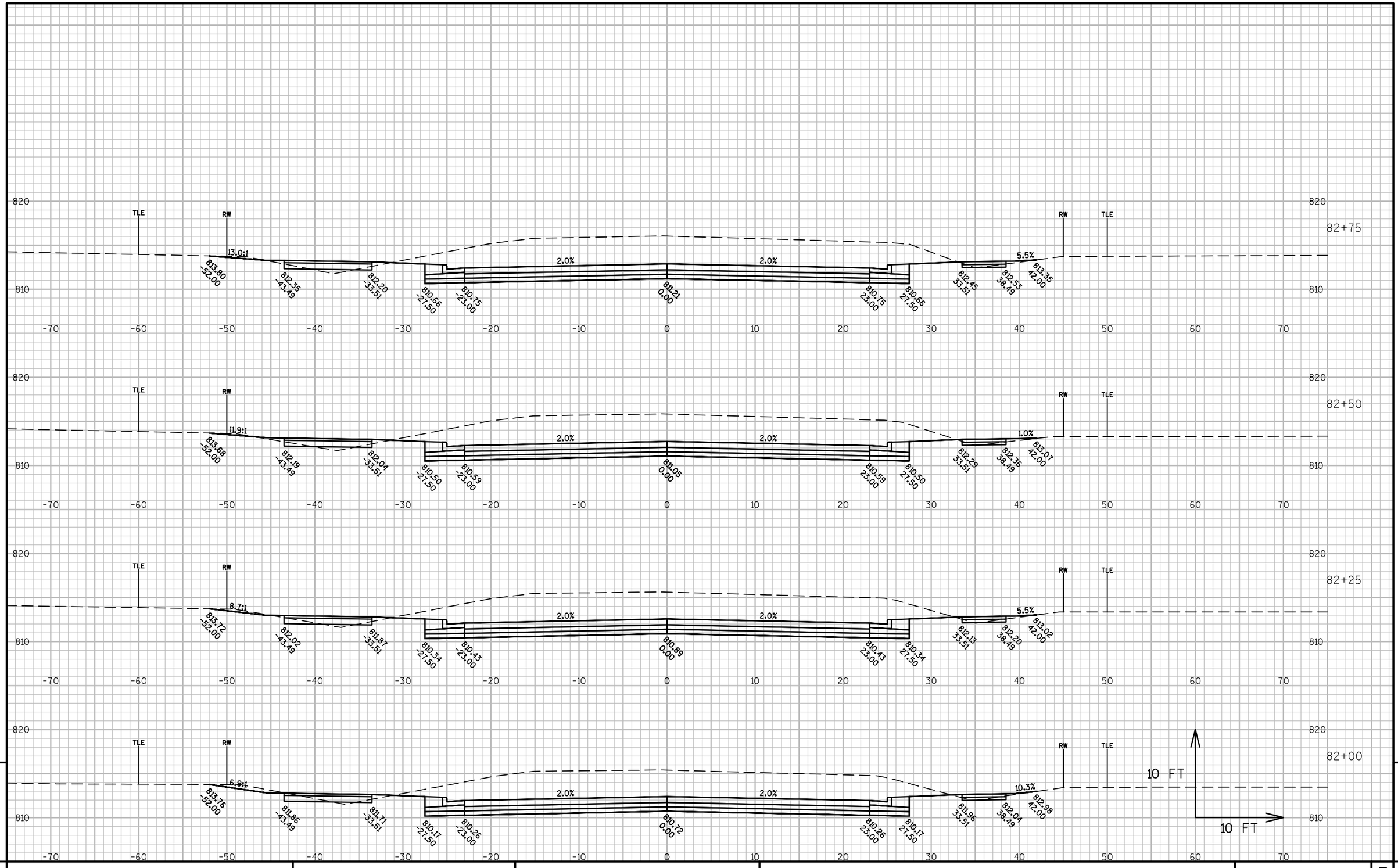


9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 326	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (72)
PLOT DATE : 4/2/2018 3:29 PM
PLOT BY : VERVILLE, PHILLIP
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

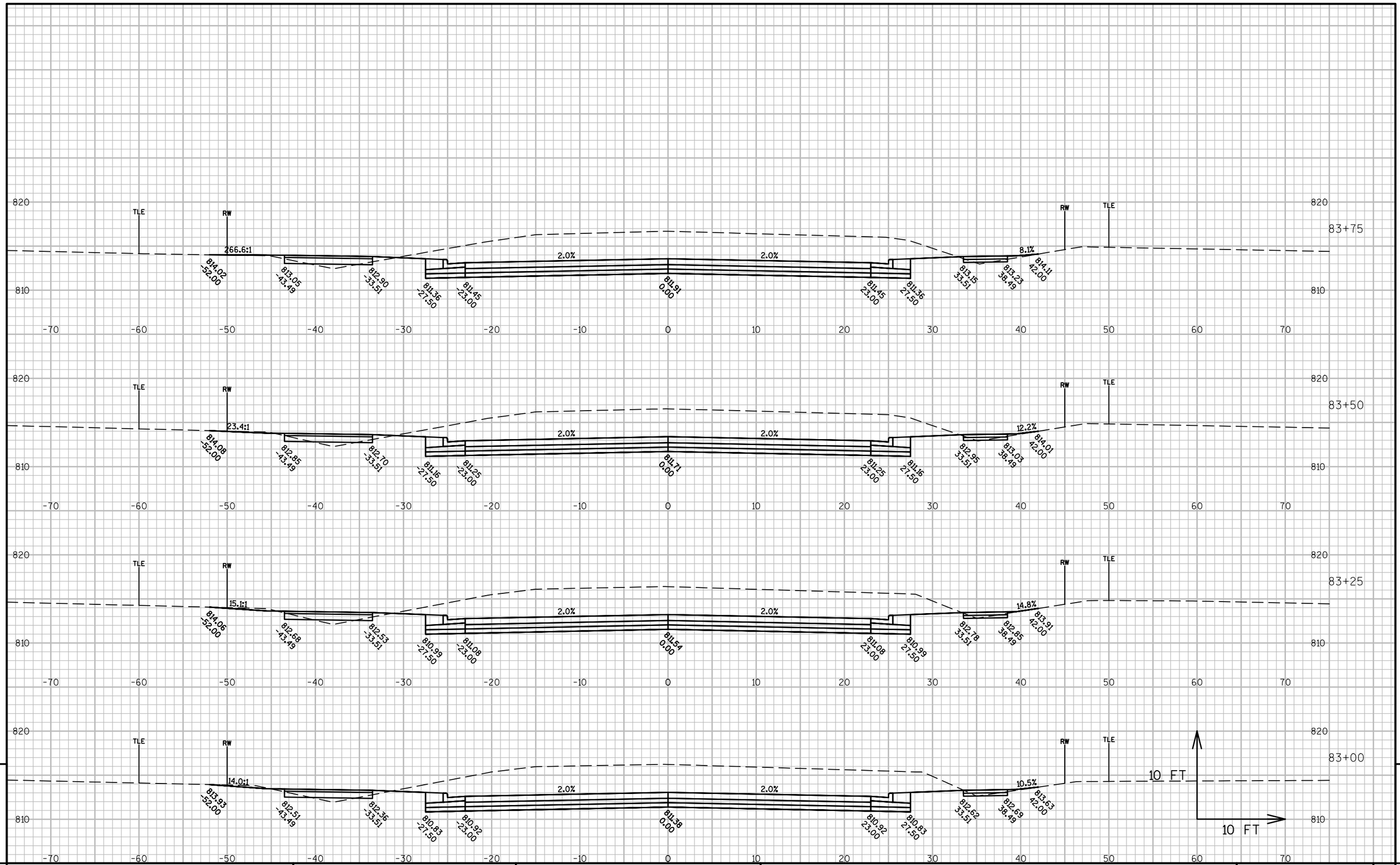
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 327	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (73)

PLOT DATE : 4/2/2018 3:29 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

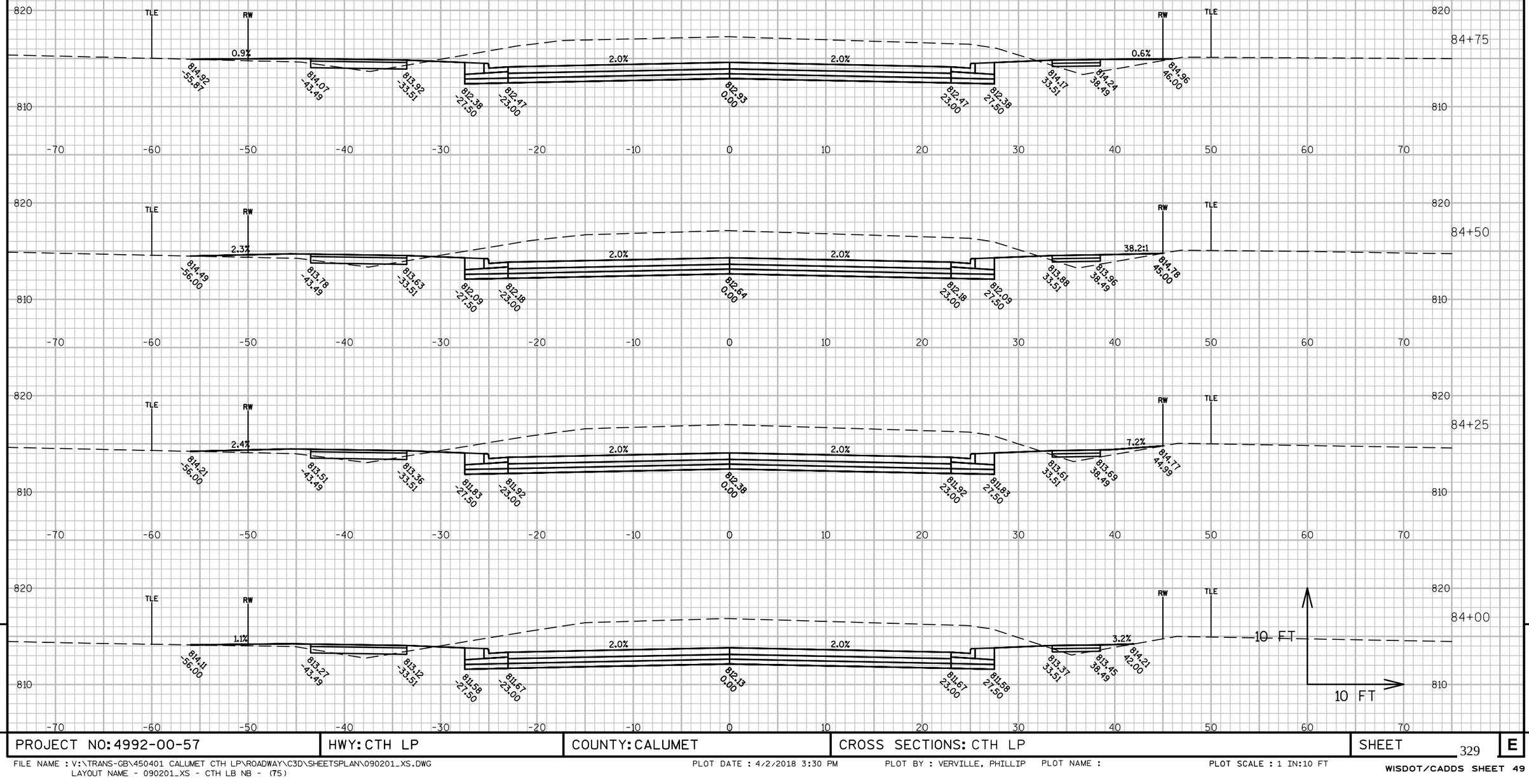


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 328	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (74)

PLOT DATE : 4/2/2018 3:30 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

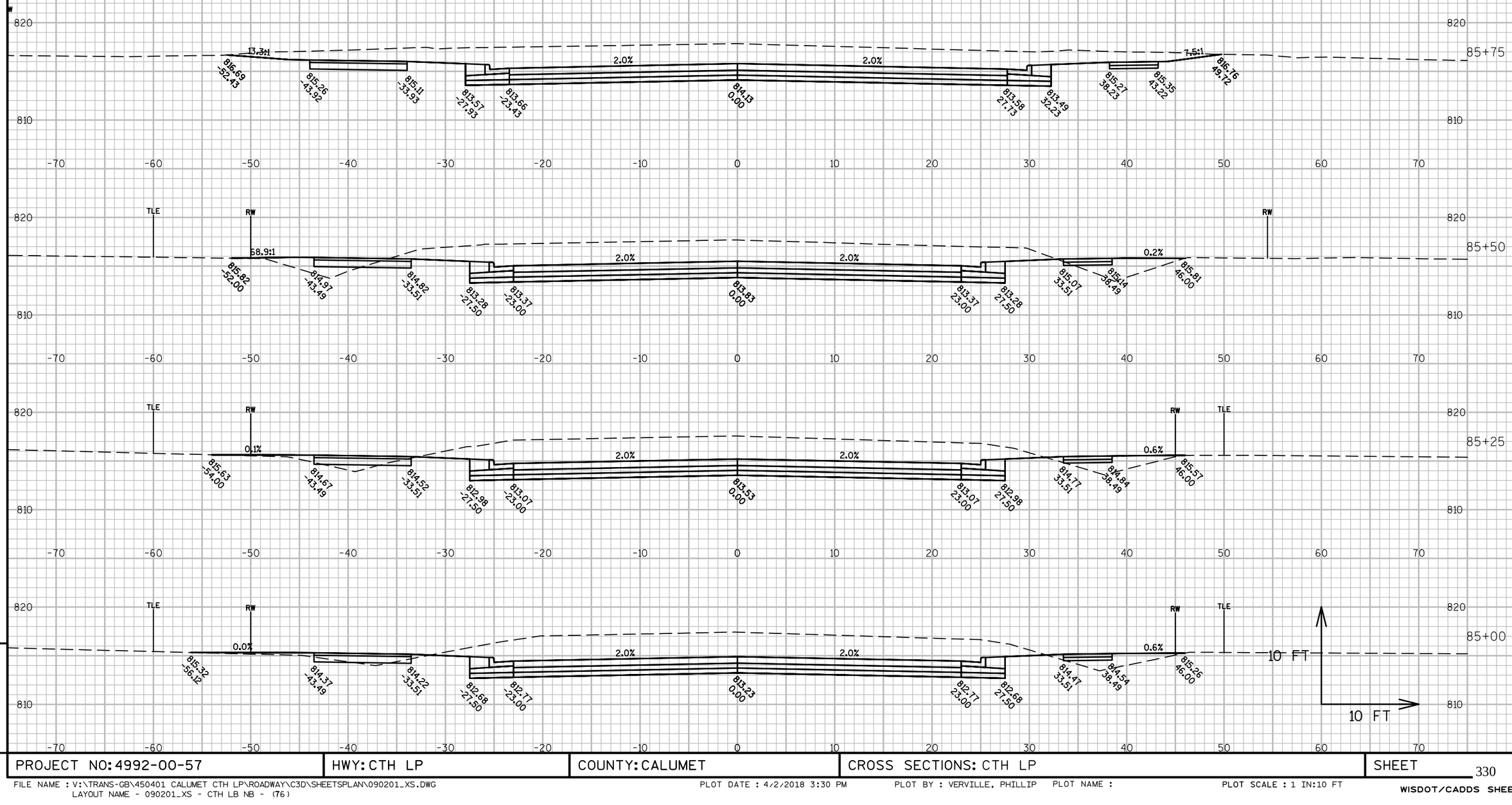
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 329	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (75)

PLOT DATE : 4/2/2018 3:30 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

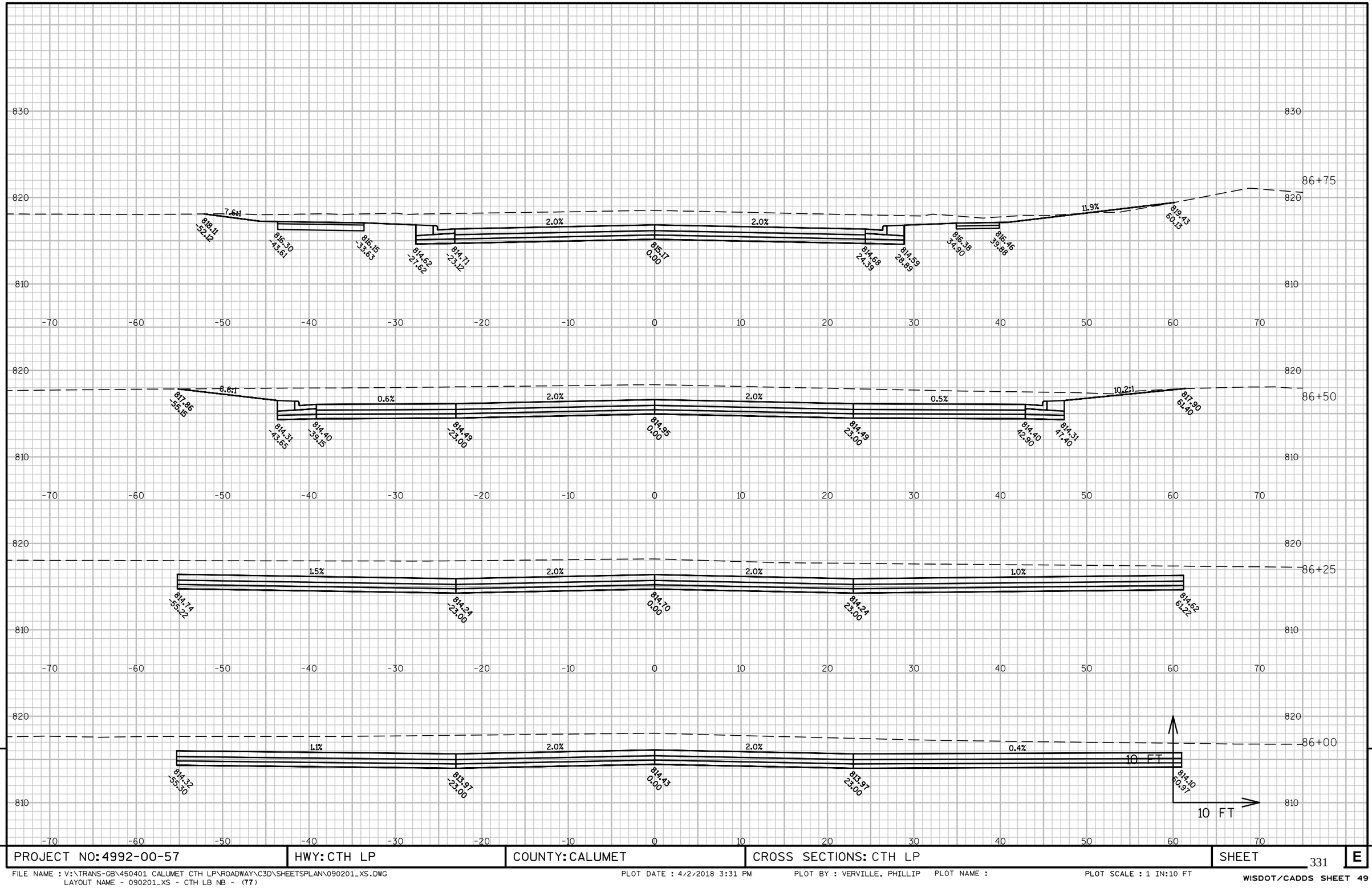


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 330	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (76)

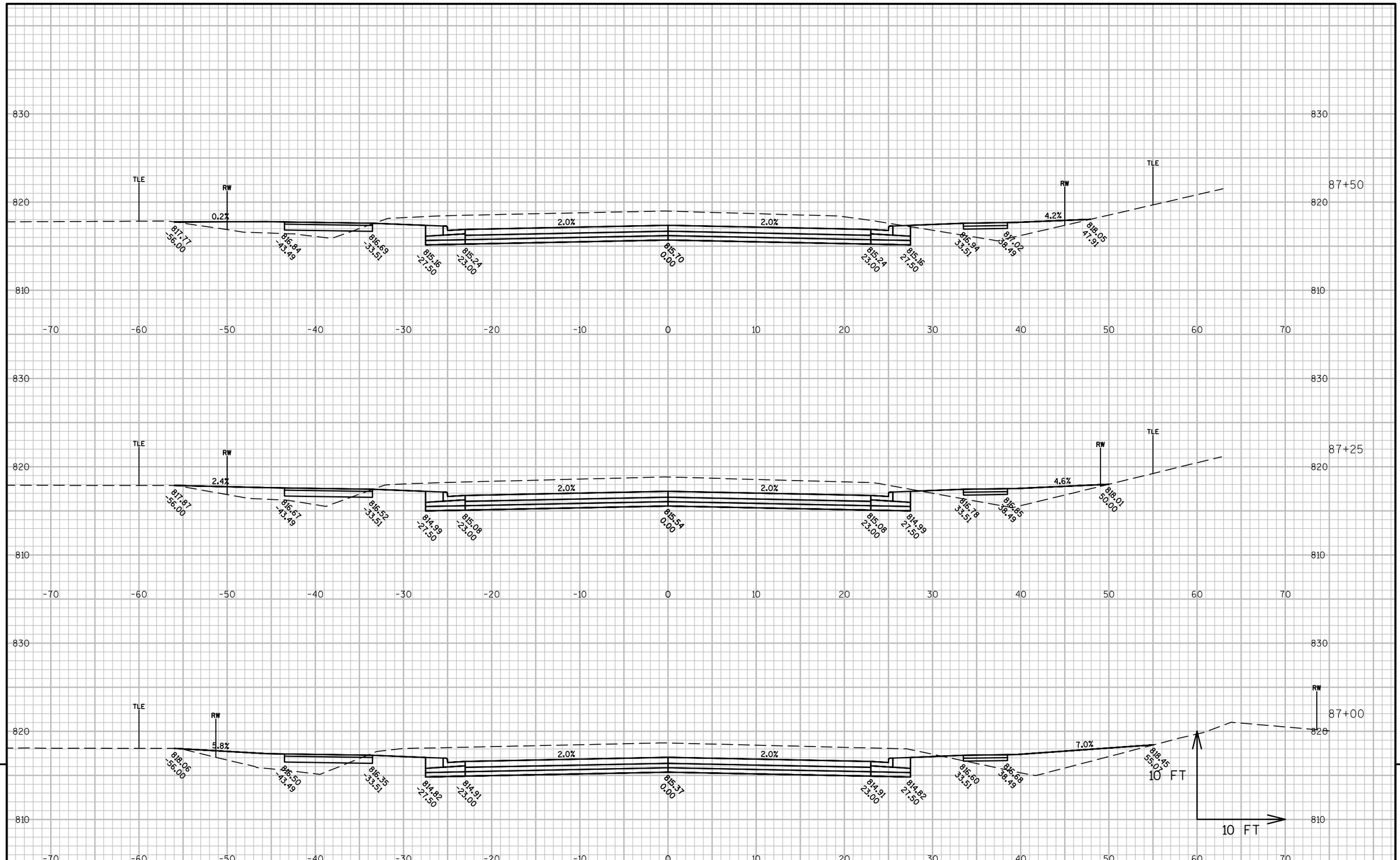
PLOT DATE : 4/2/2018 3:30 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 331	E

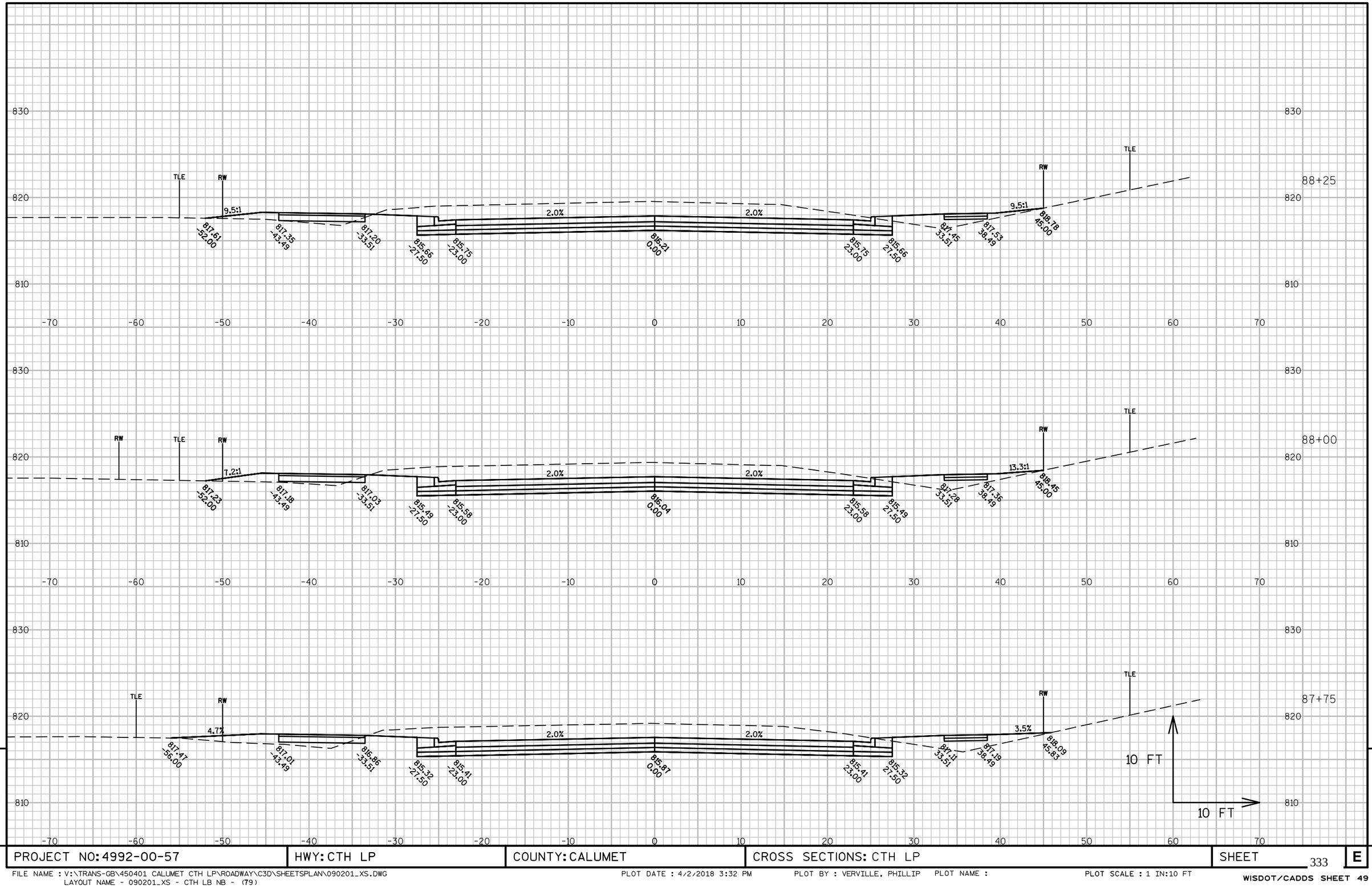


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 332 E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (78)

PLOT DATE : 4/2/2018 3:31 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

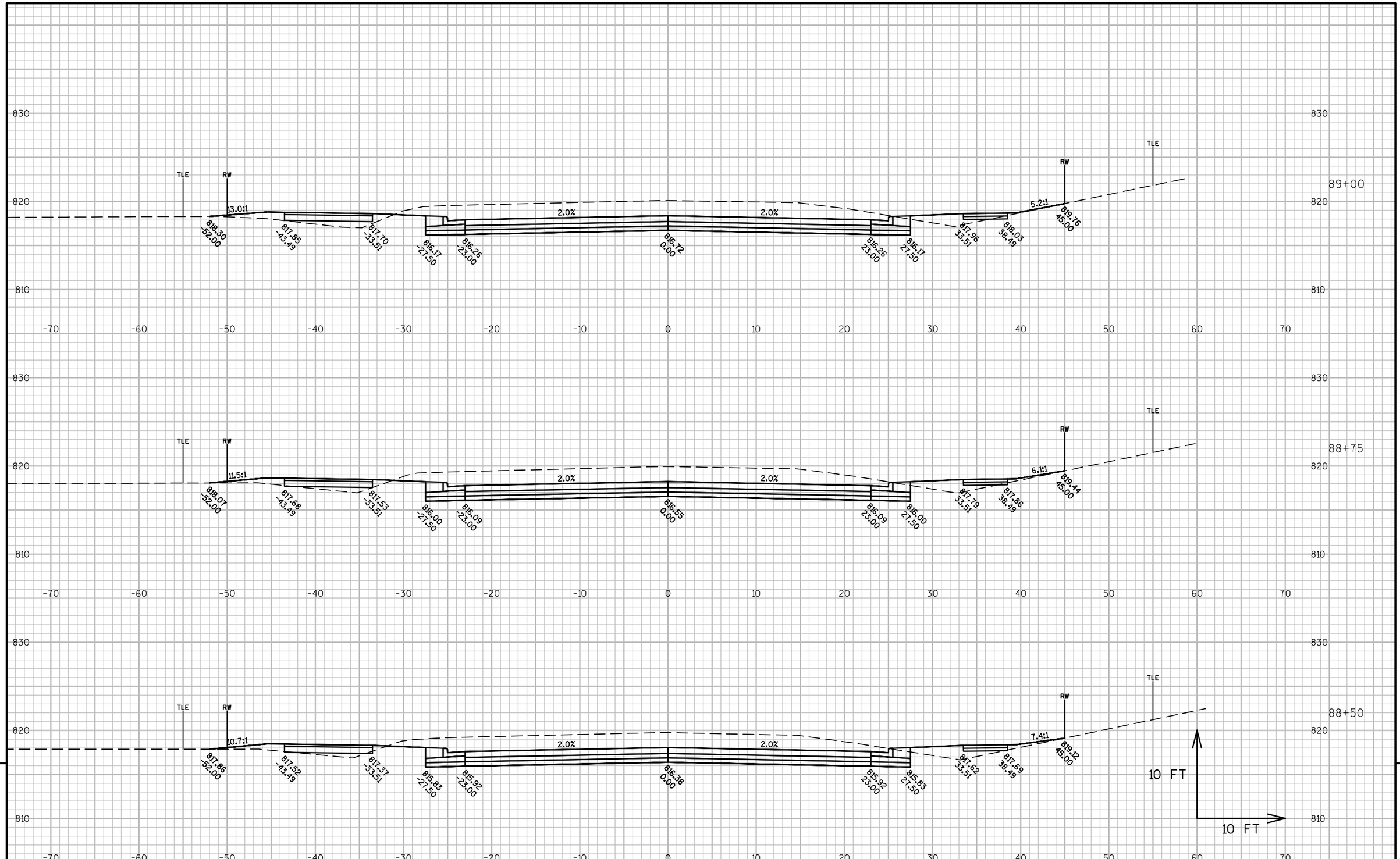


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 333	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (79)

PLOT DATE : 4/2/2018 3:32 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

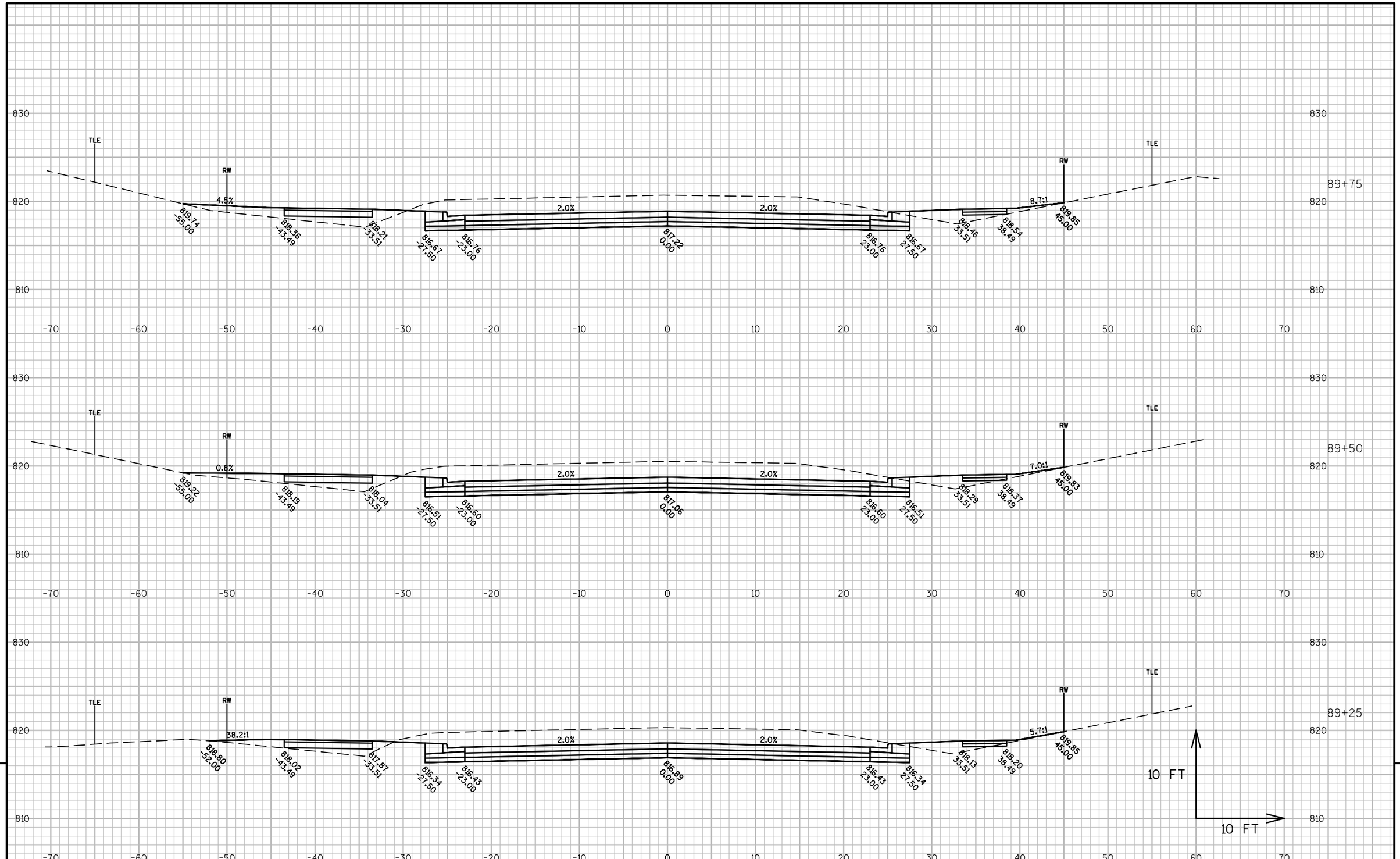


9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 334	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (80)
PLOT DATE : 4/2/2018 3:32 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

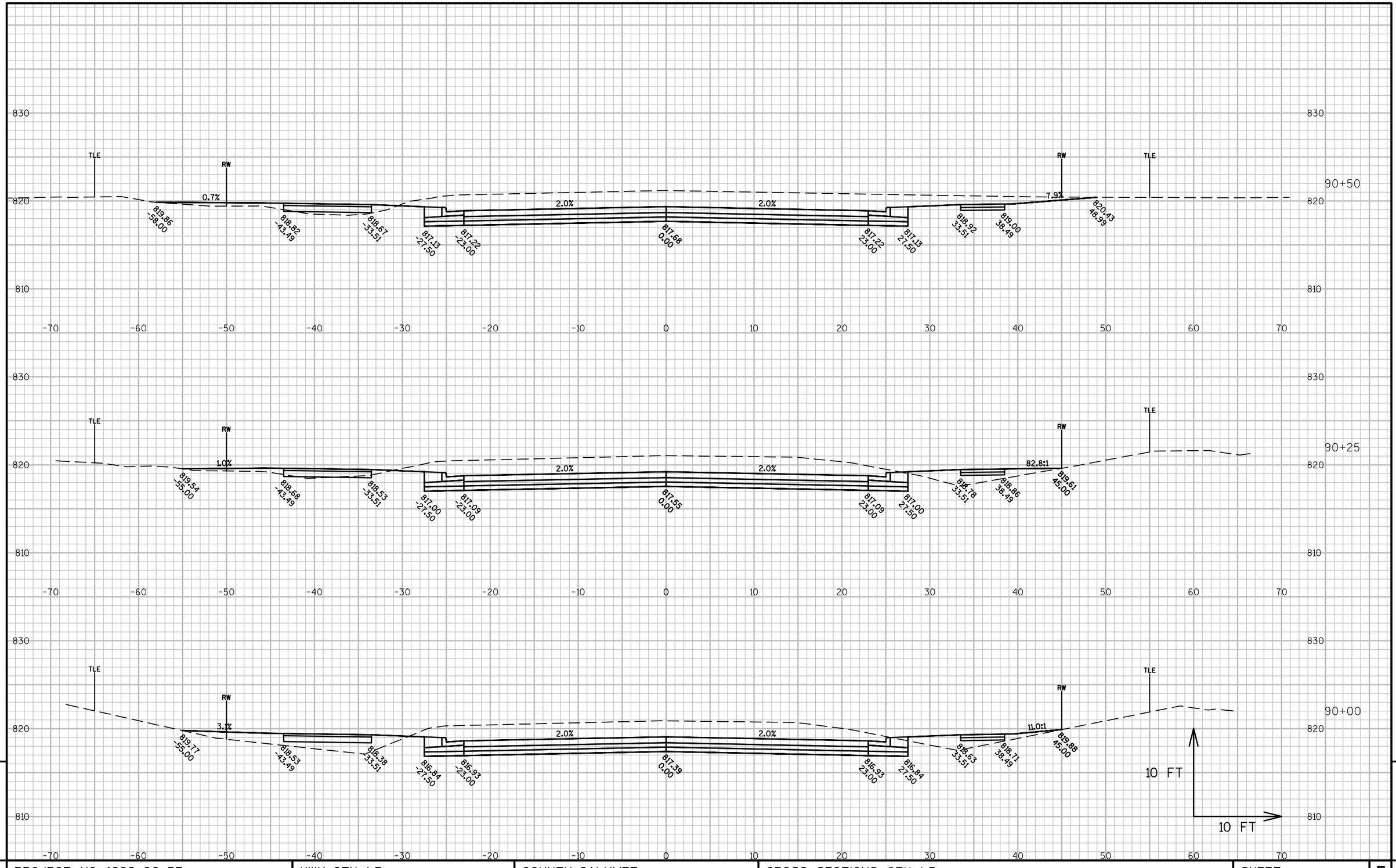


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 335	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (81)

PLOT DATE : 4/2/2018 3:32 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

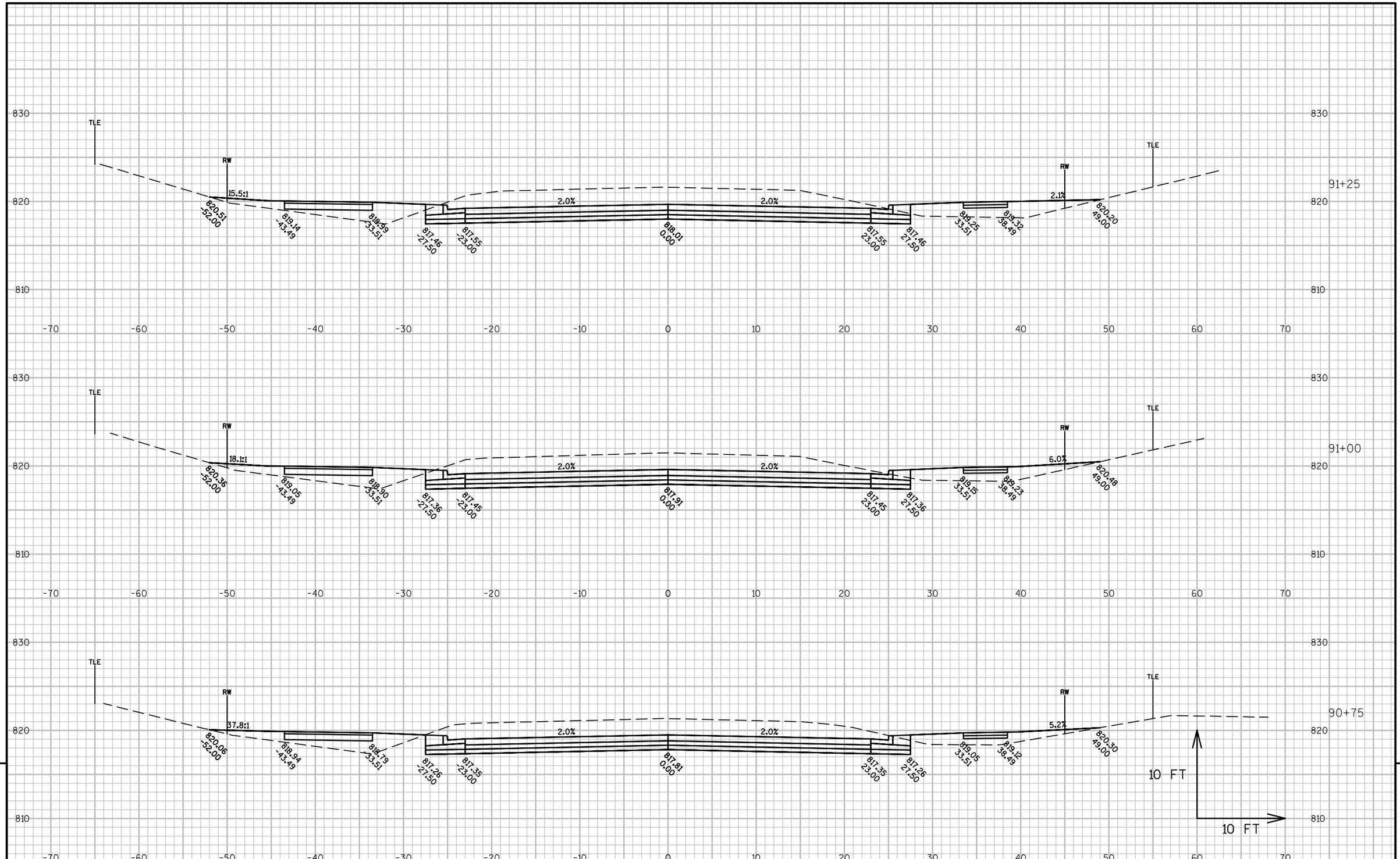


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 336	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (82)

PLOT DATE : 4/2/2018 3:33 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

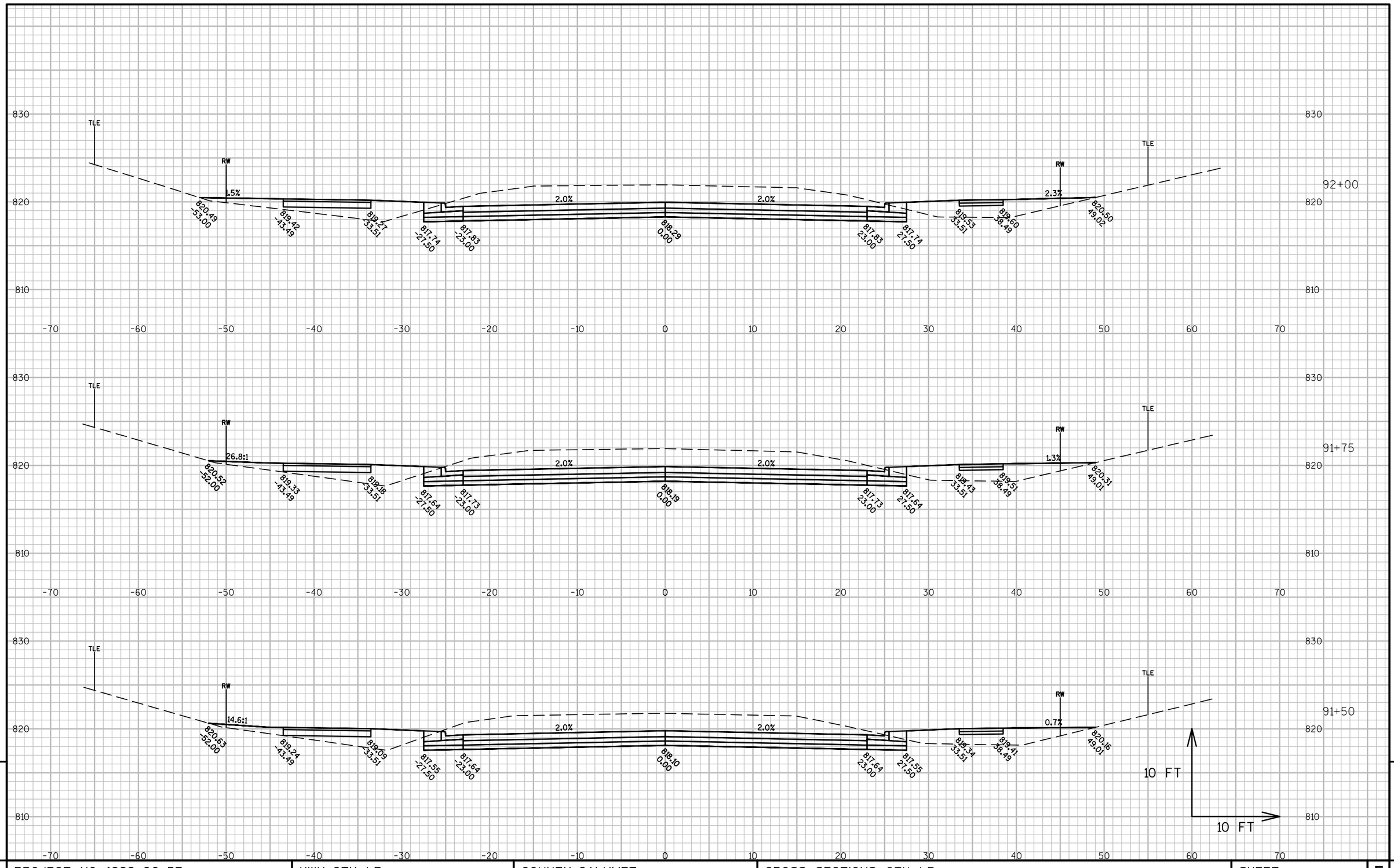
WISDOT/CADDS SHEET 49



9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 337	E

9

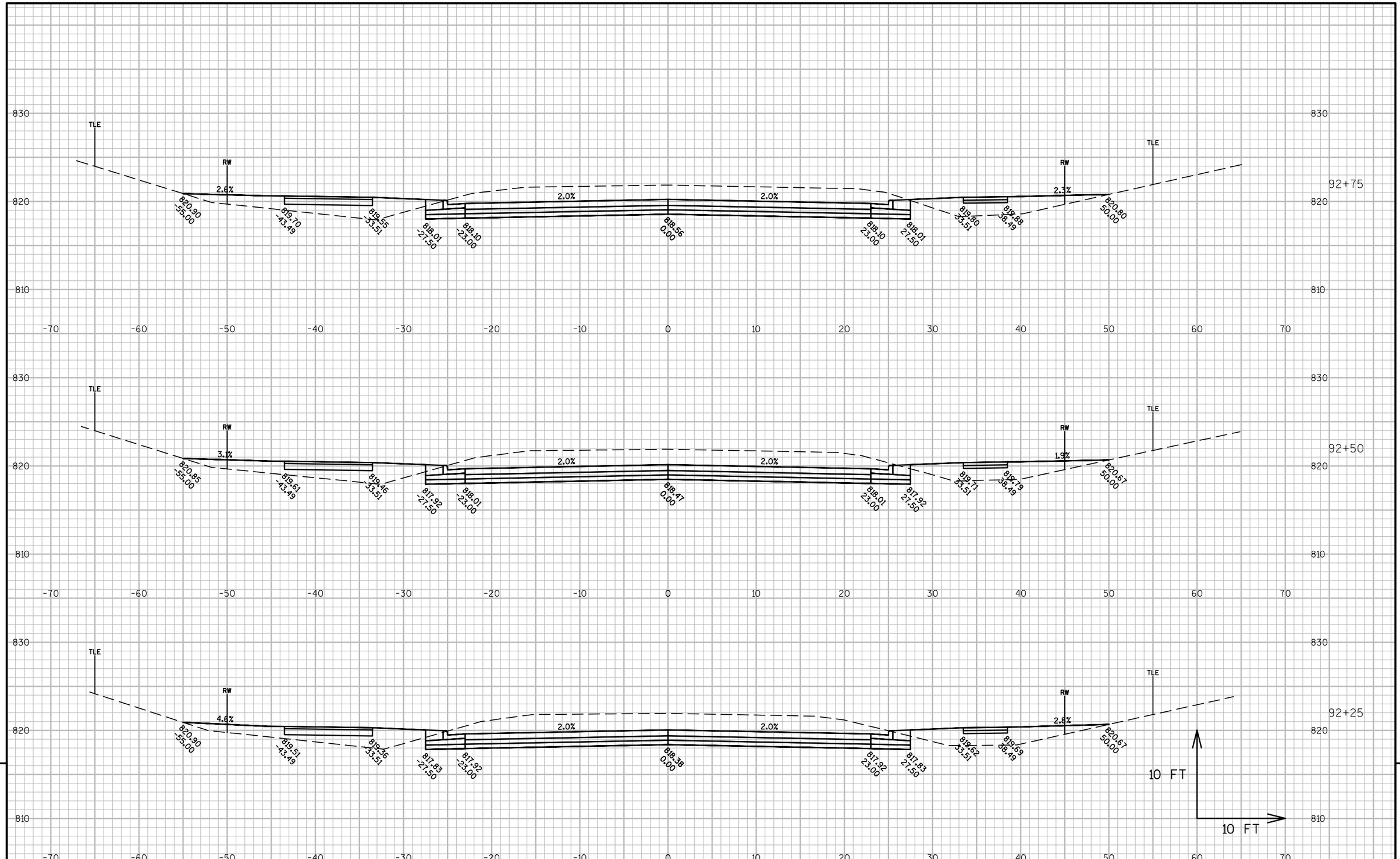


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 338 E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (84)

PLOT DATE : 4/2/2018 3:33 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 339	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (85)

PLOT DATE : 4/2/2018 3:34 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

9

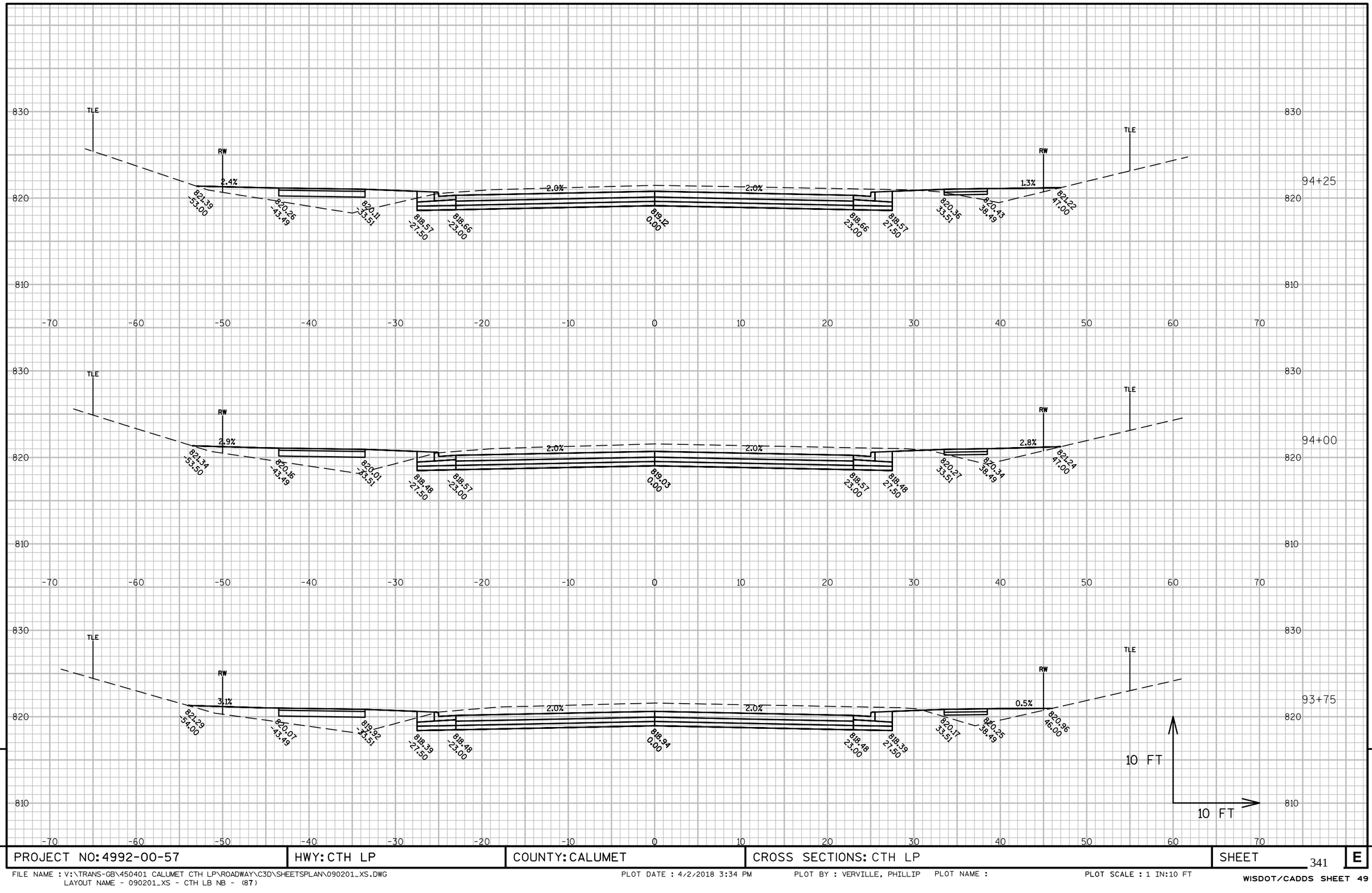
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 340	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (86)

PLOT DATE : 4/2/2018 3:34 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

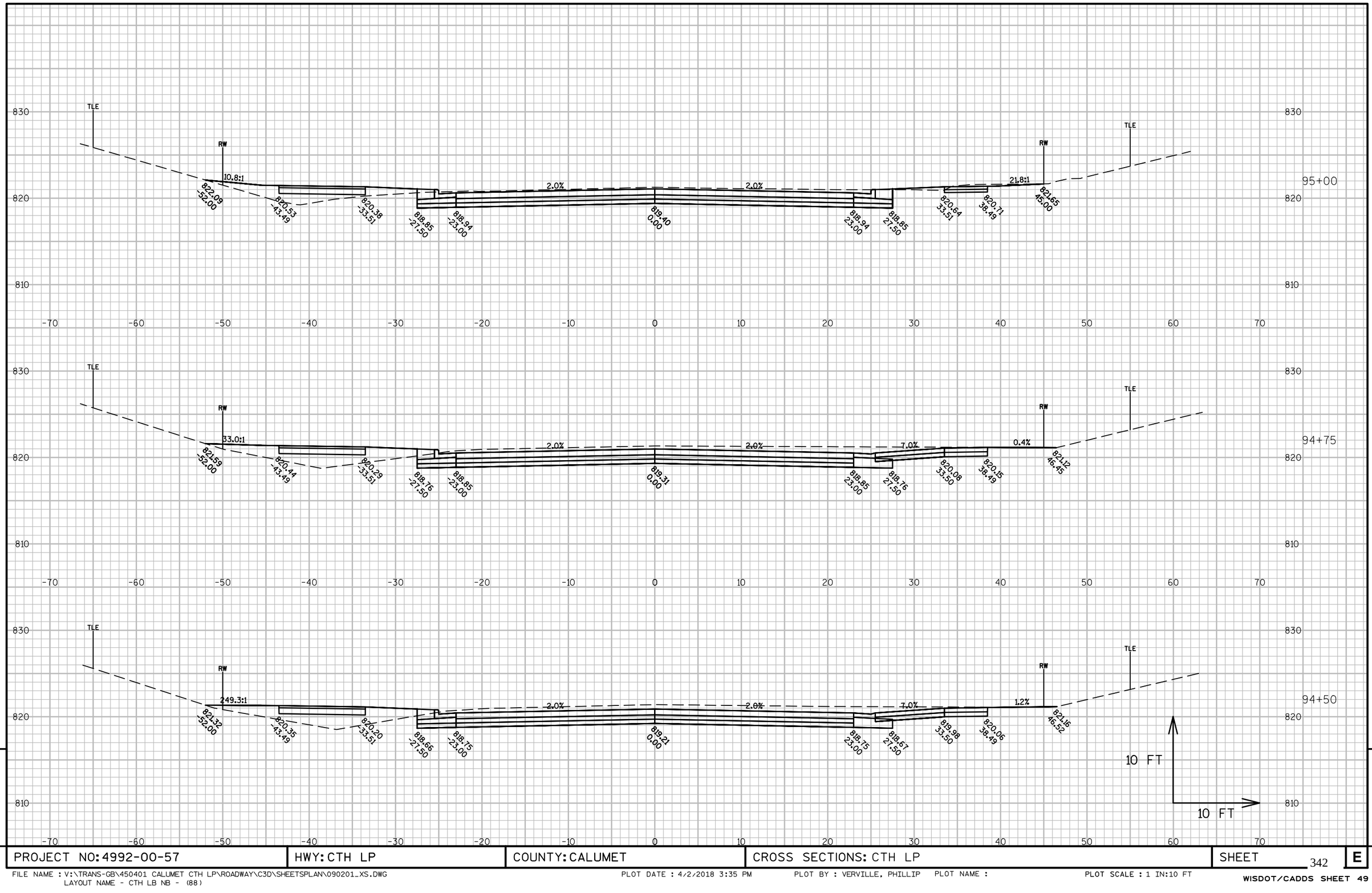


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 341	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - CTH LB NB - (87)

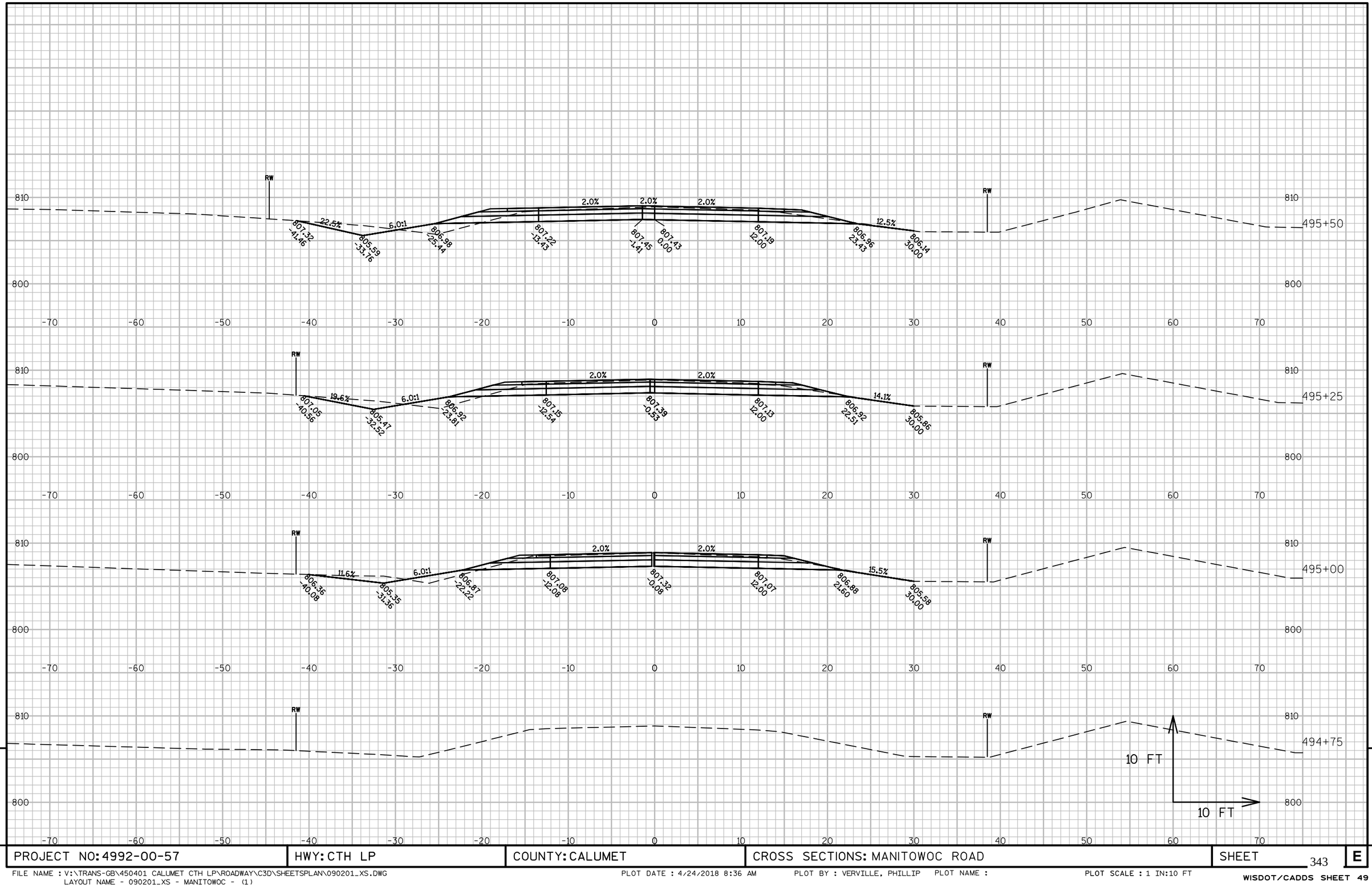
PLOT DATE : 4/2/2018 3:34 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: CTH LP	SHEET 342	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - CTH LB NB - (88)
PLOT DATE : 4/2/2018 3:35 PM
PLOT BY : VERVILLE, PHILLIP
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

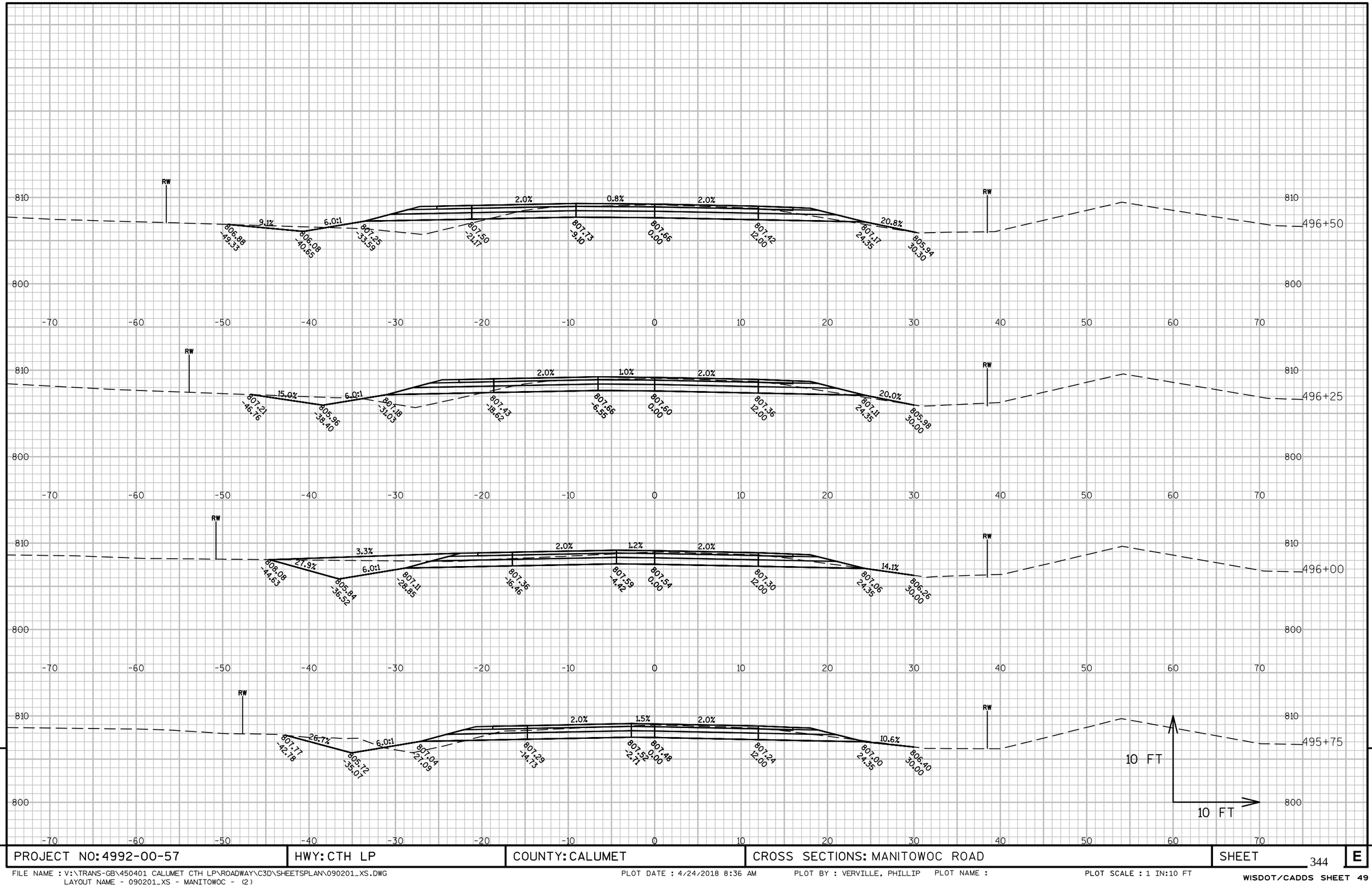
9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 343	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (1)

PLOT DATE : 4/24/2018 8:36 AM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

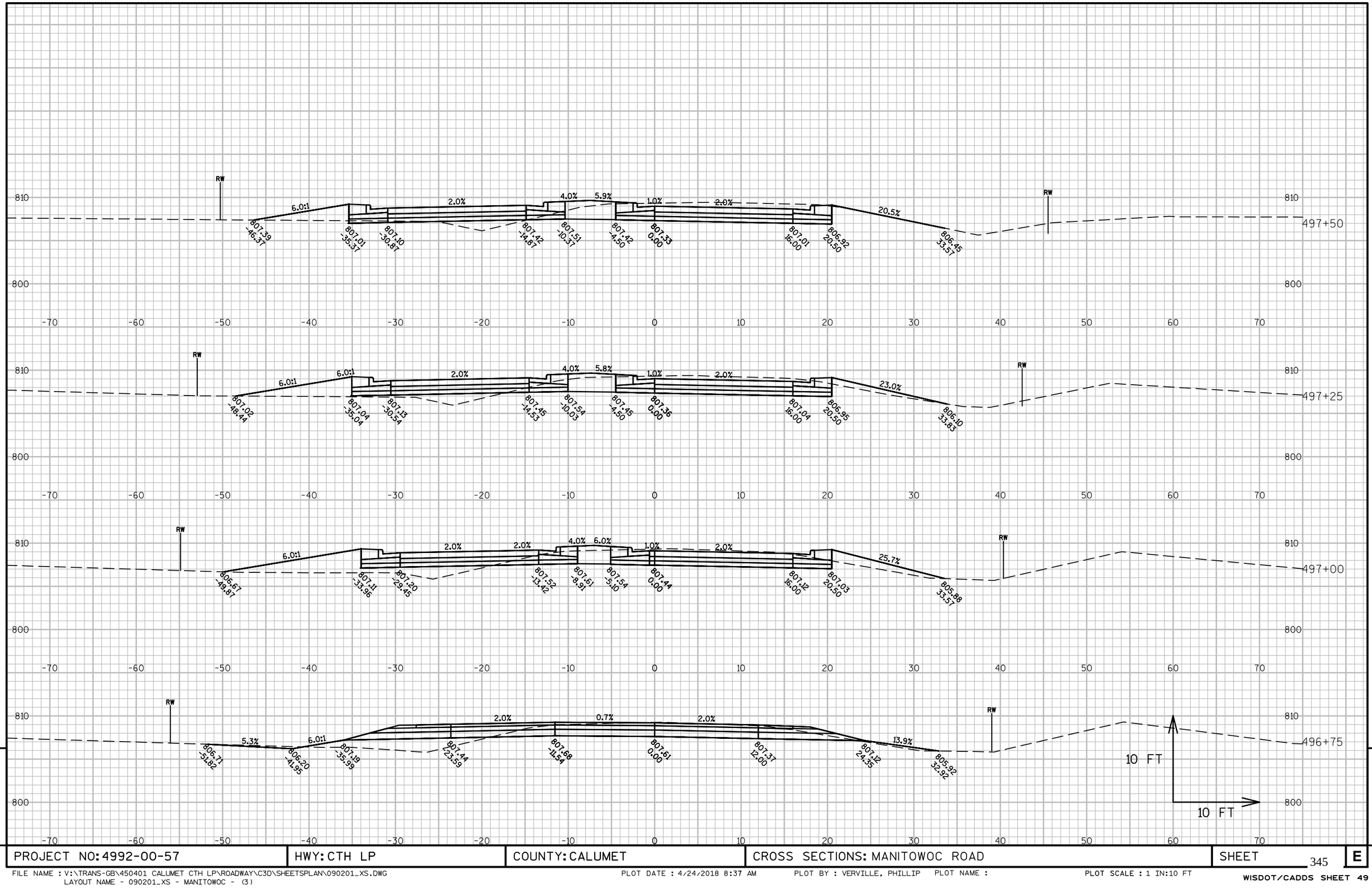
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 344	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (2)

PLOT DATE : 4/24/2018 8:36 AM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

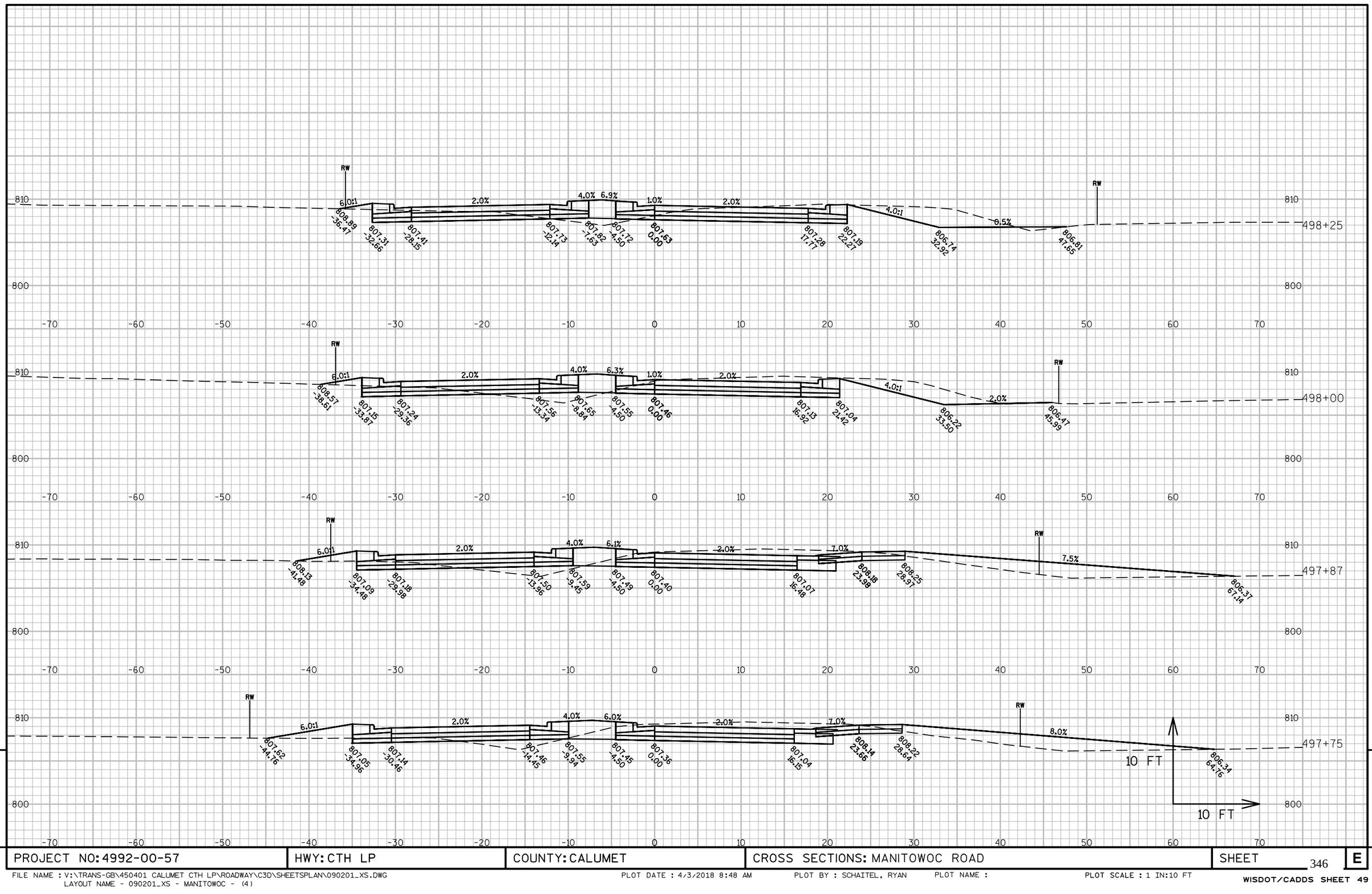


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 345	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (3)

PLOT DATE : 4/24/2018 8:37 AM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

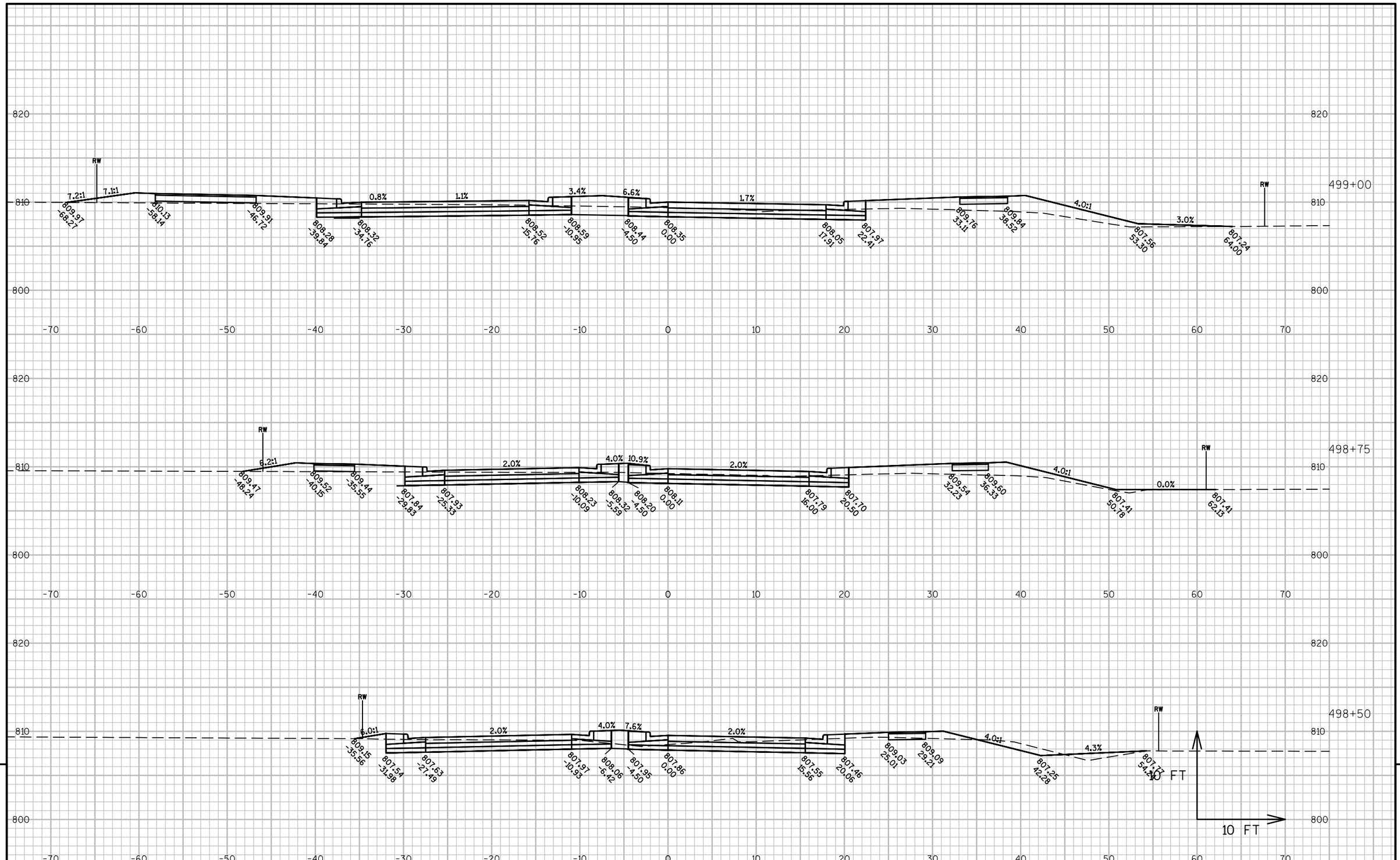
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 346	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (4)

PLOT DATE : 4/3/2018 8:48 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

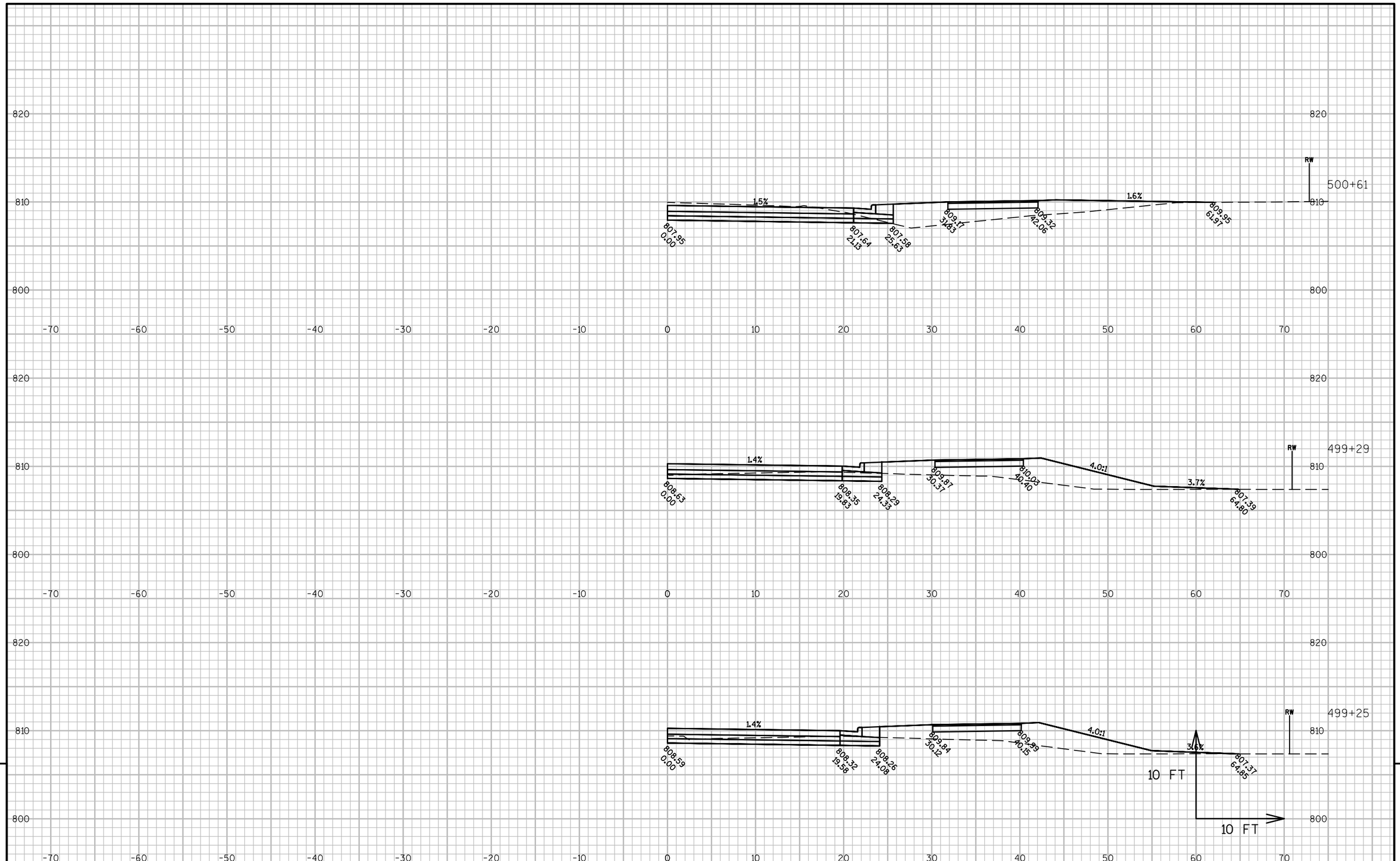


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 347	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (5)

PLOT DATE : 4/3/2018 8:48 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

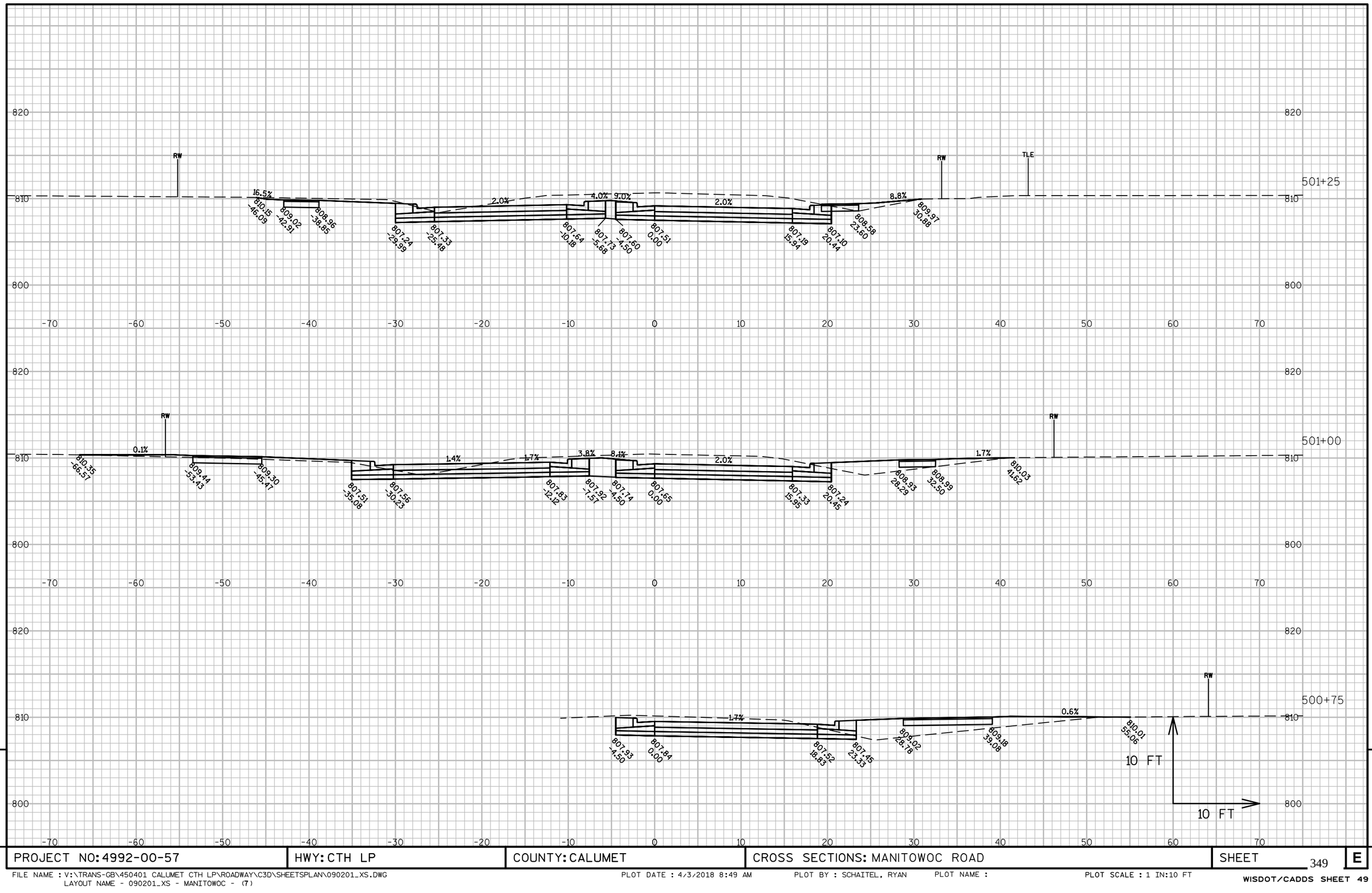


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 348	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (6)

PLOT DATE : 4/3/2018 8:48 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



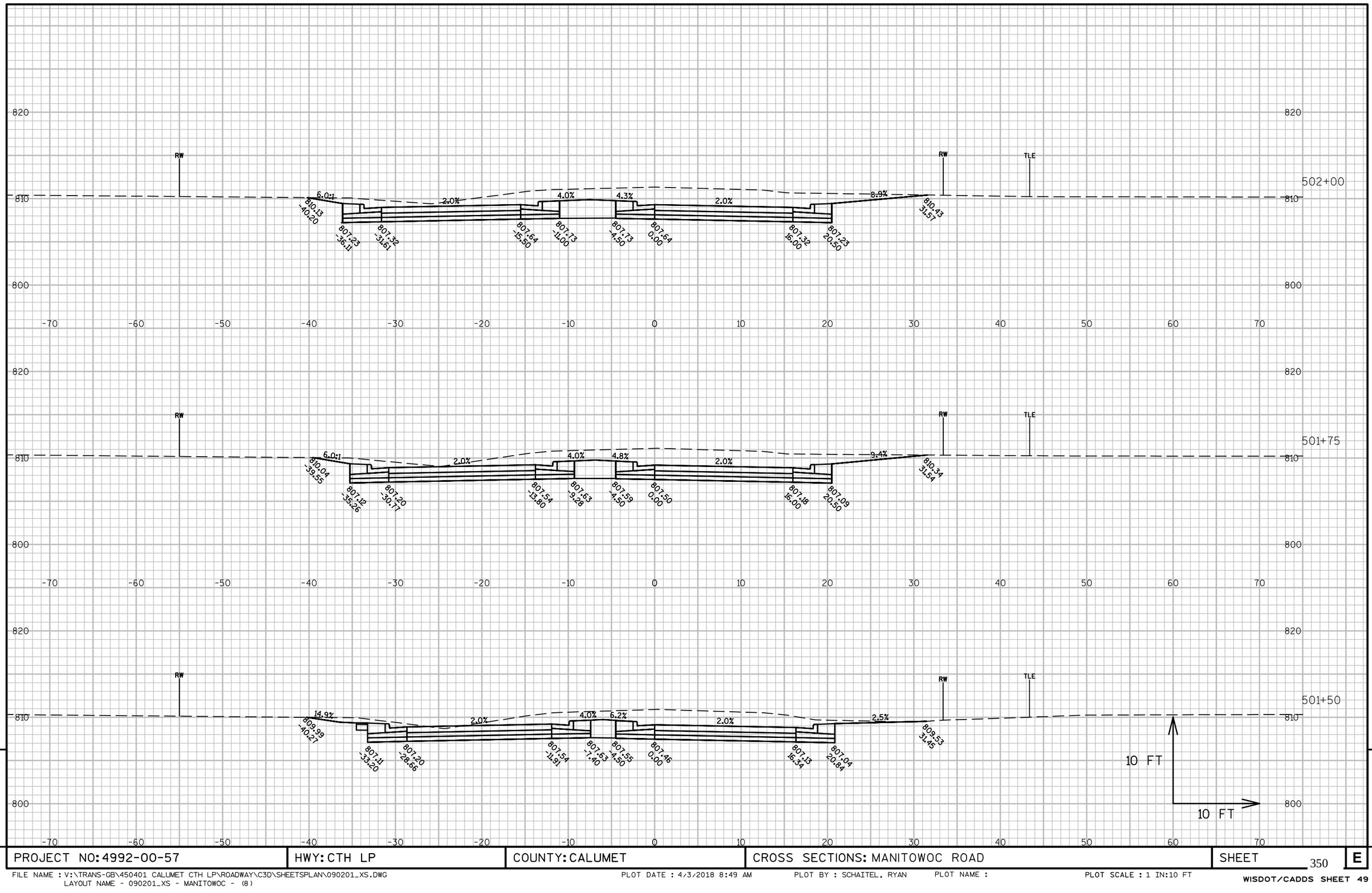
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9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 349	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (7)

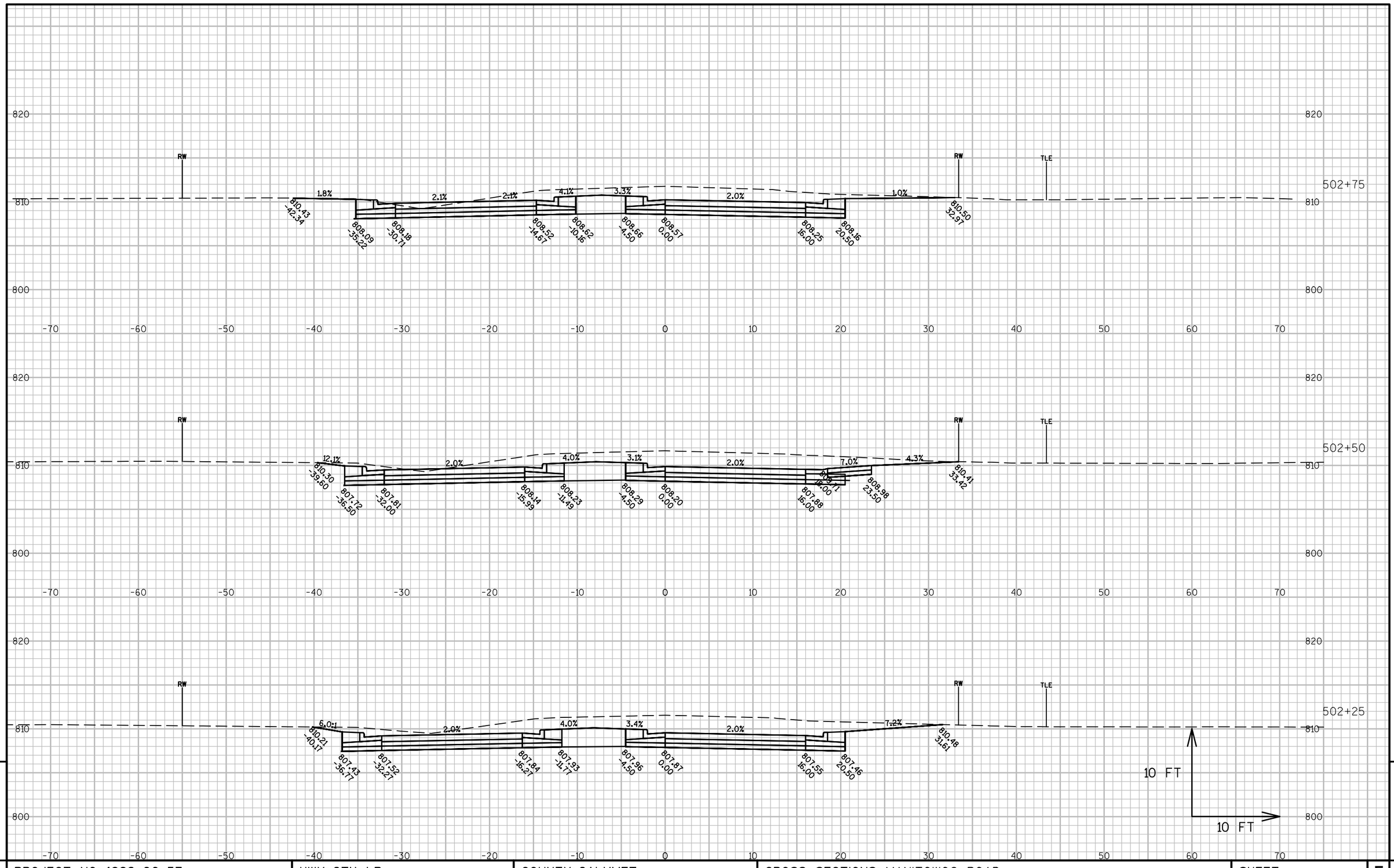
PLOT DATE : 4/3/2018 8:49 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 350	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (8)

PLOT DATE : 4/3/2018 8:49 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT



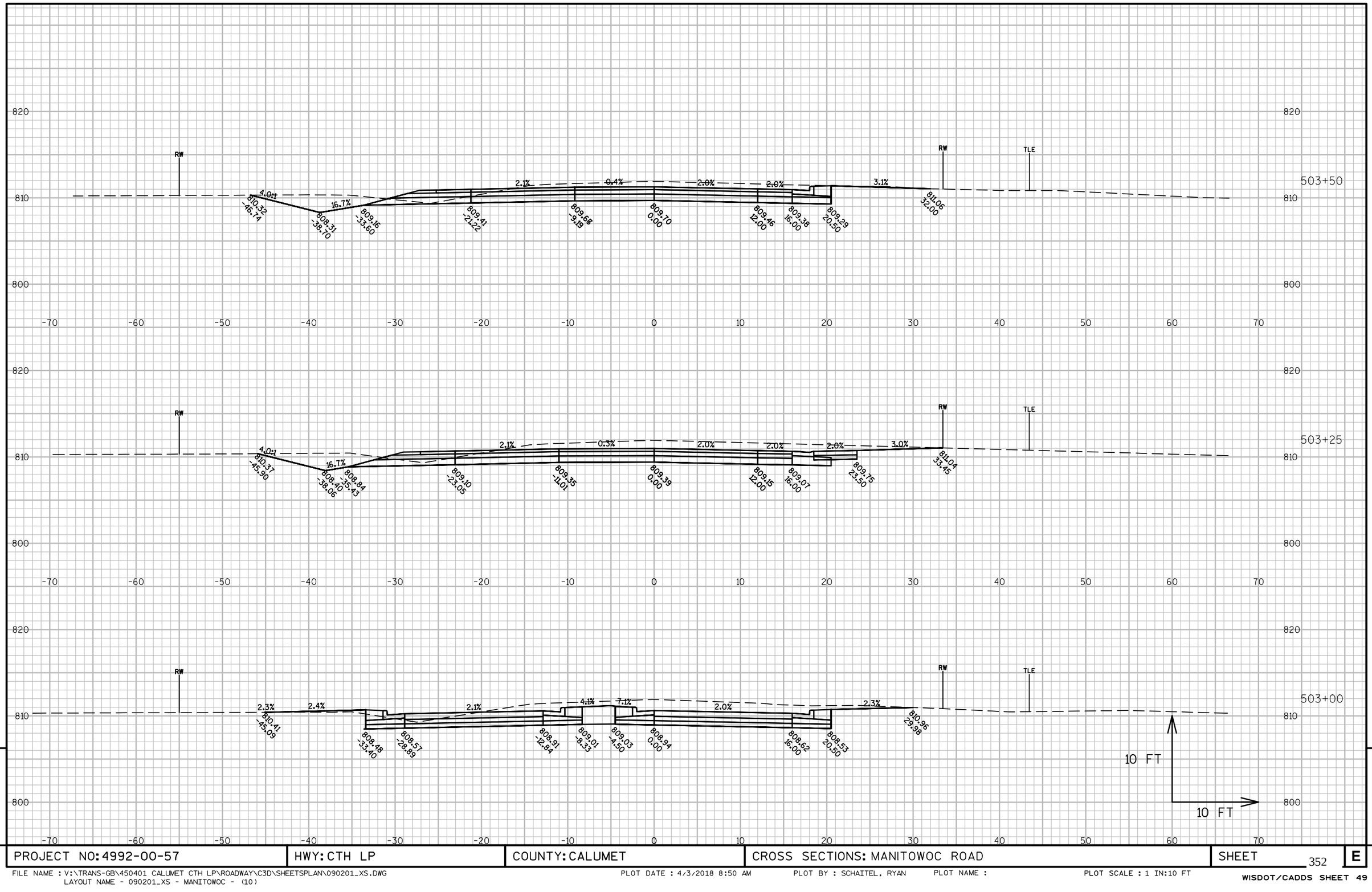
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9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 351	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (9)

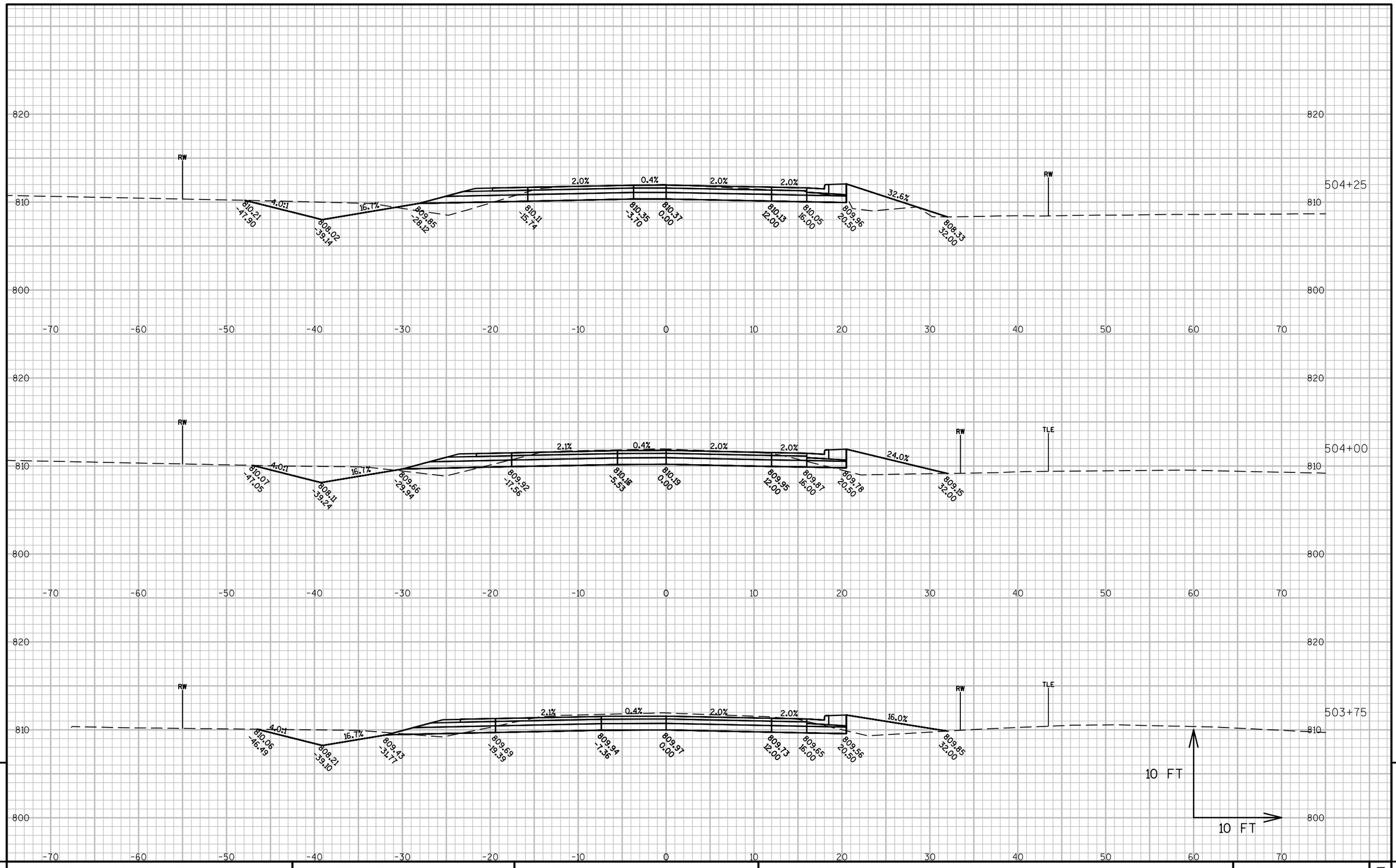
PLOT DATE : 4/3/2018 8:49 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 352	E



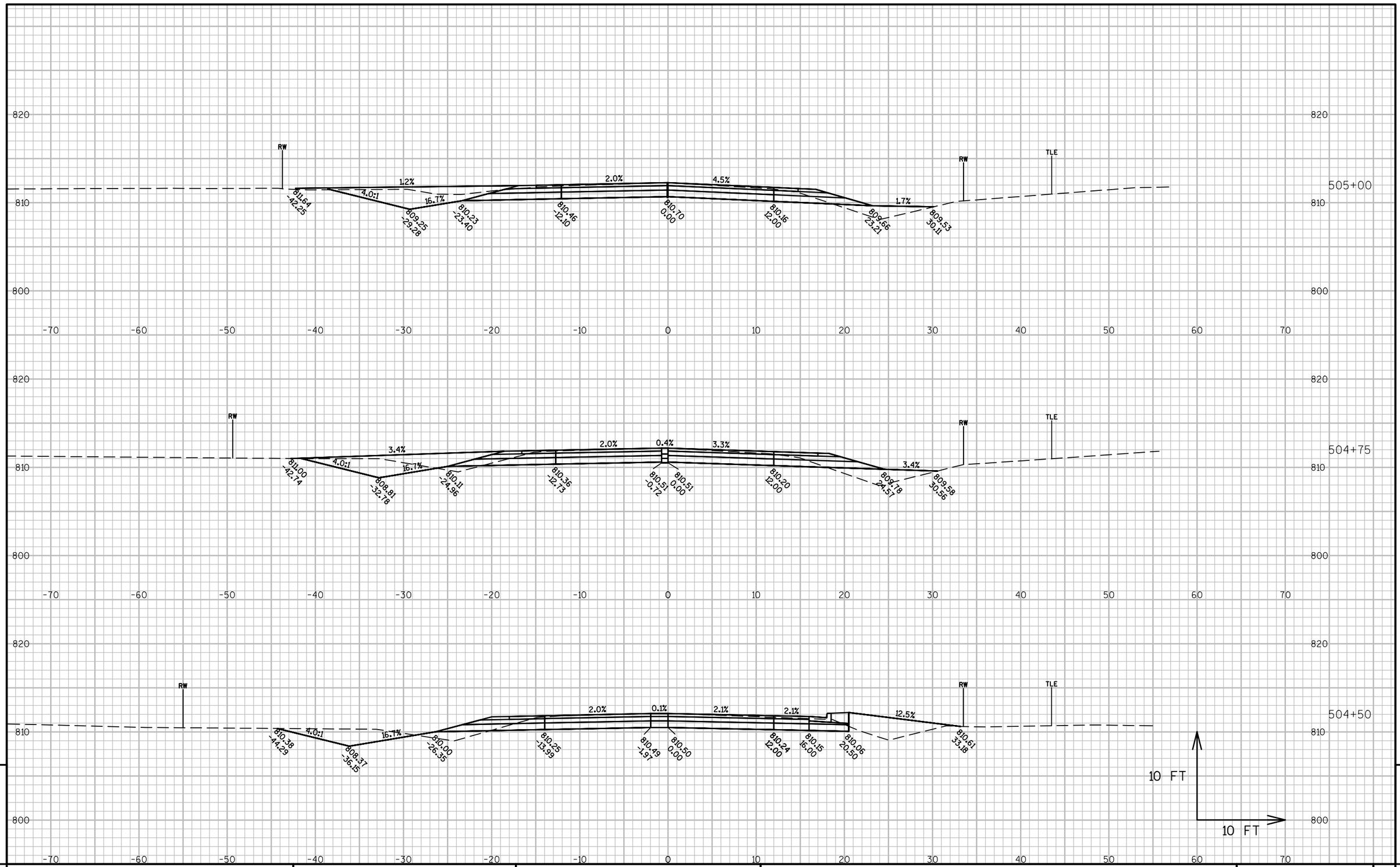
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 353	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (11)

PLOT DATE : 4/3/2018 8:50 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

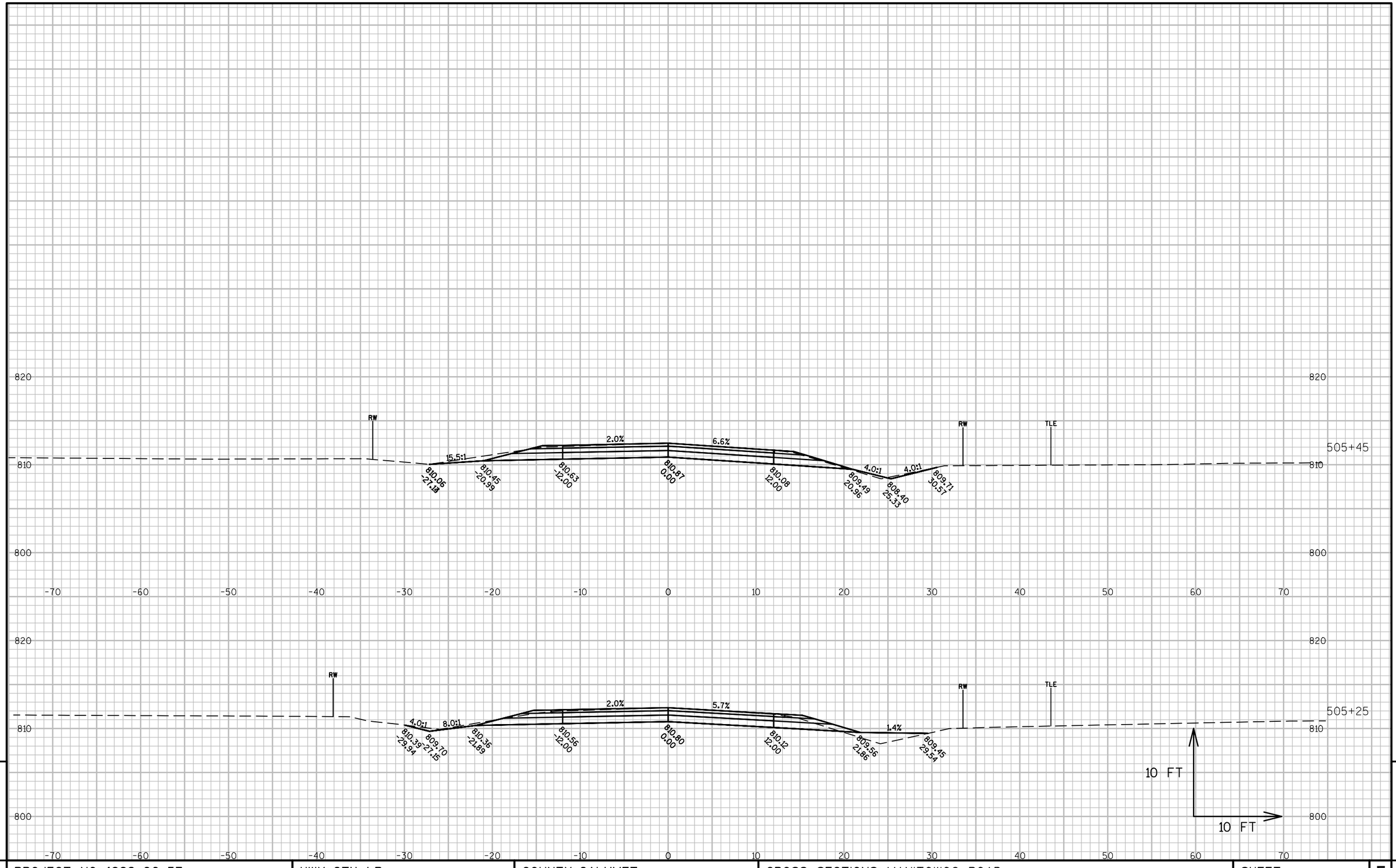


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 354	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (12)

PLOT DATE : 4/3/2018 8:50 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

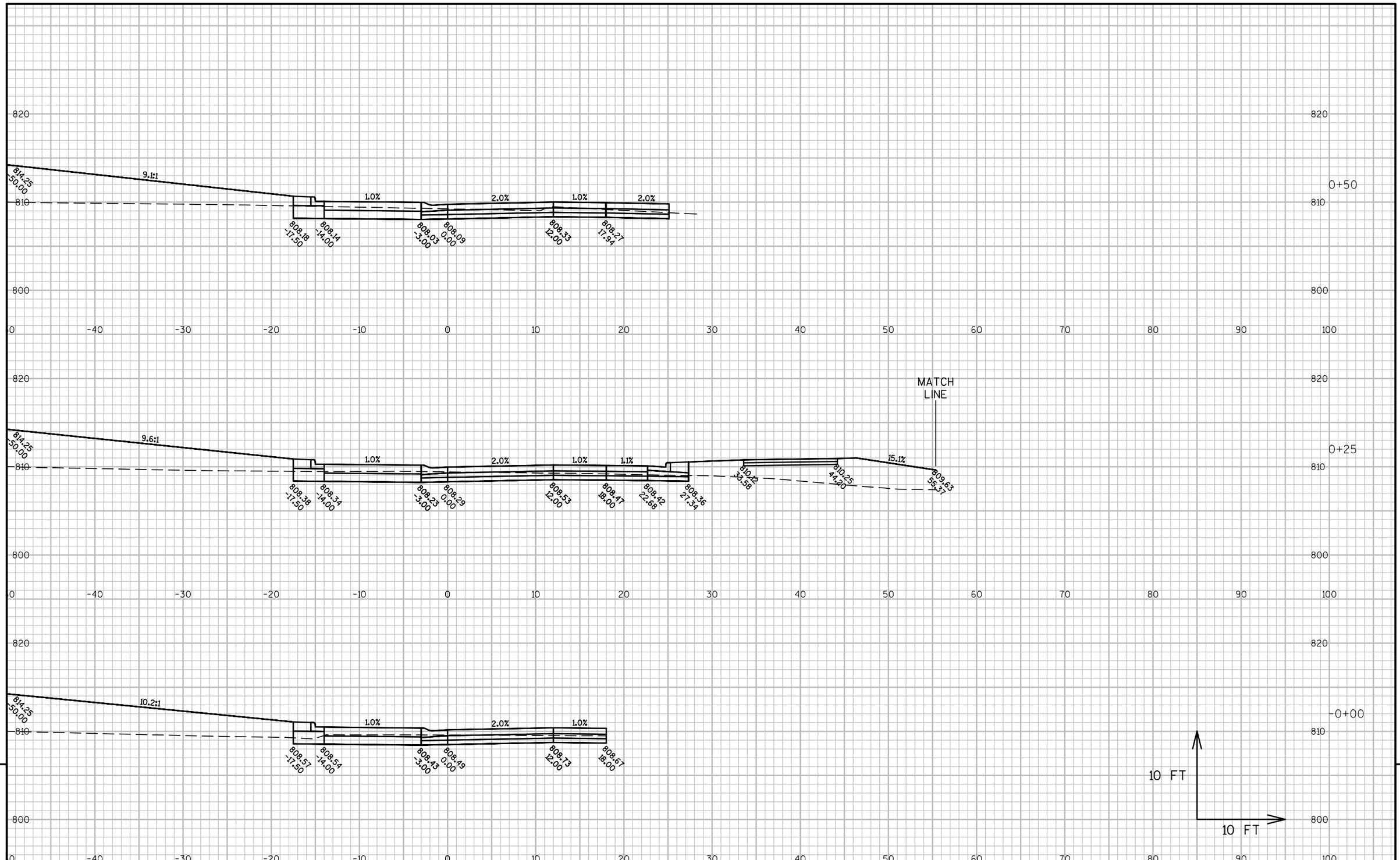


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: MANITOWOC ROAD	SHEET 355	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - MANITOWOC - (13)

PLOT DATE : 4/3/2018 8:51 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

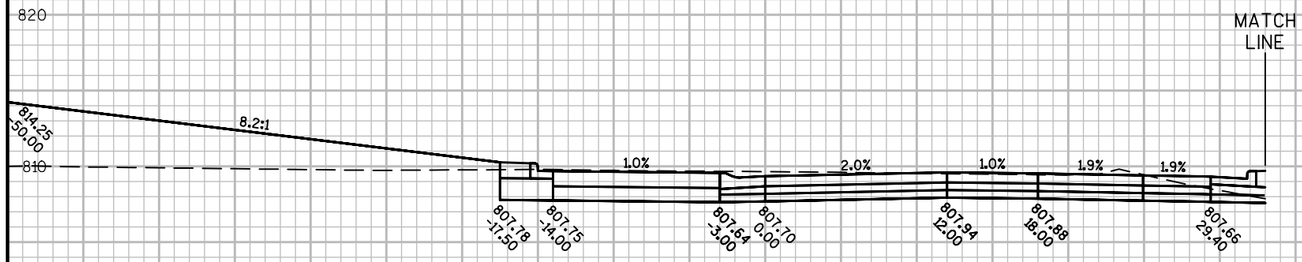
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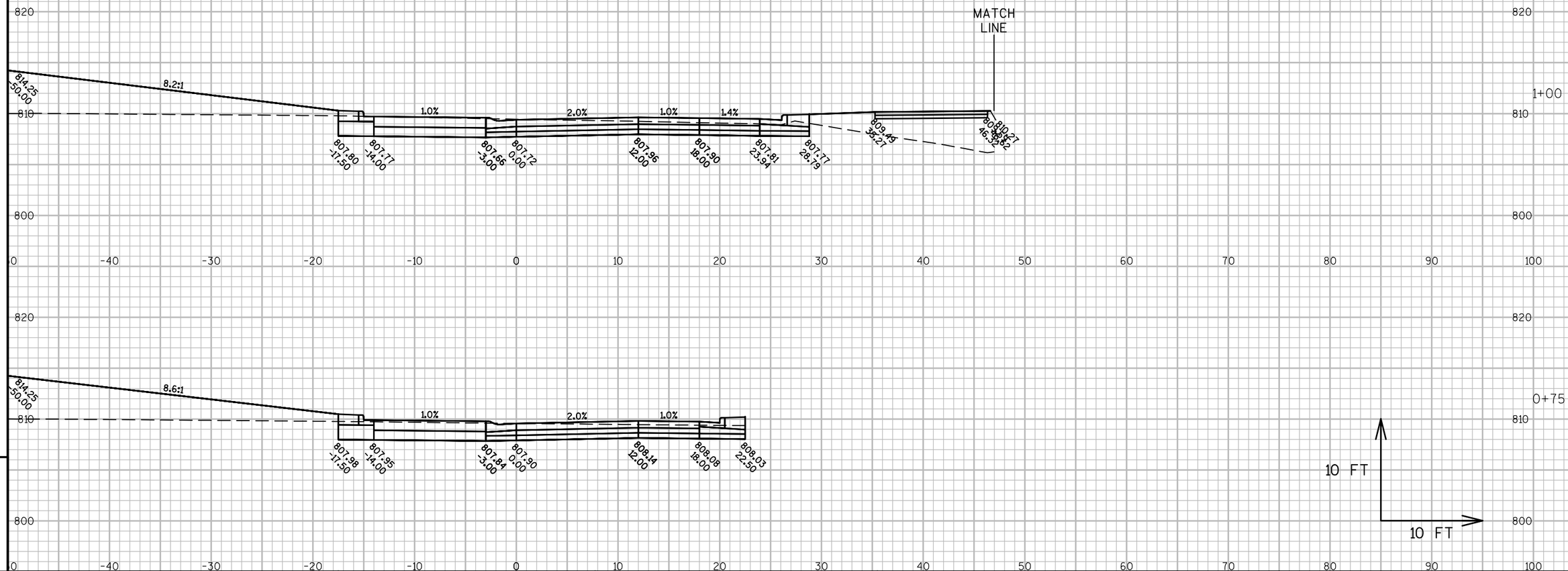
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: RAB	SHEET 356	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - RAB - (1)

PLOT DATE : 4/3/2018 8:51 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





9

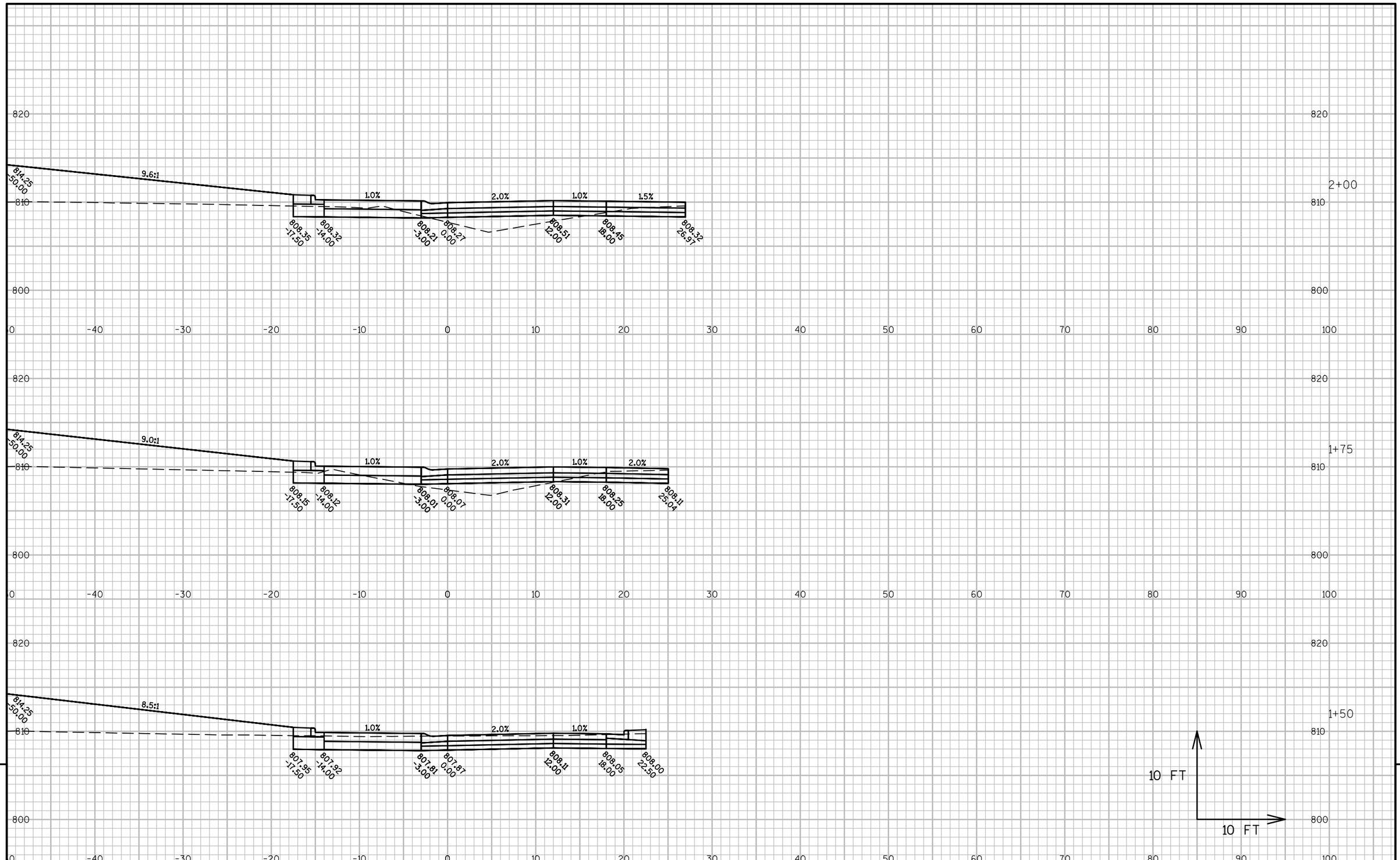
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: RAB	SHEET 357	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - RAB - (2)

PLOT DATE : 4/3/2018 8:51 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

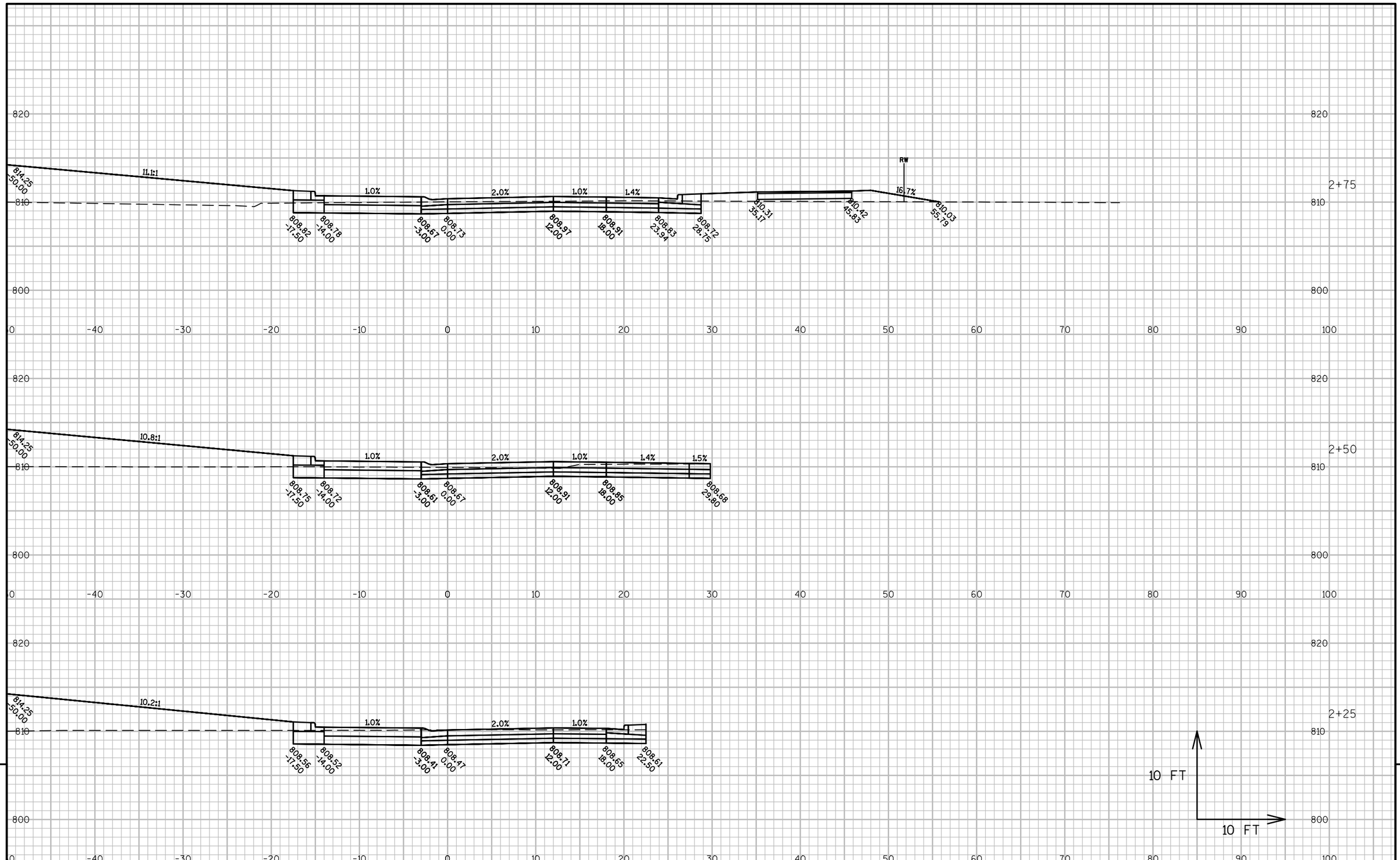


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9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: RAB	SHEET 358	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - RAB - (3)
PLOT DATE : 4/3/2018 8:52 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

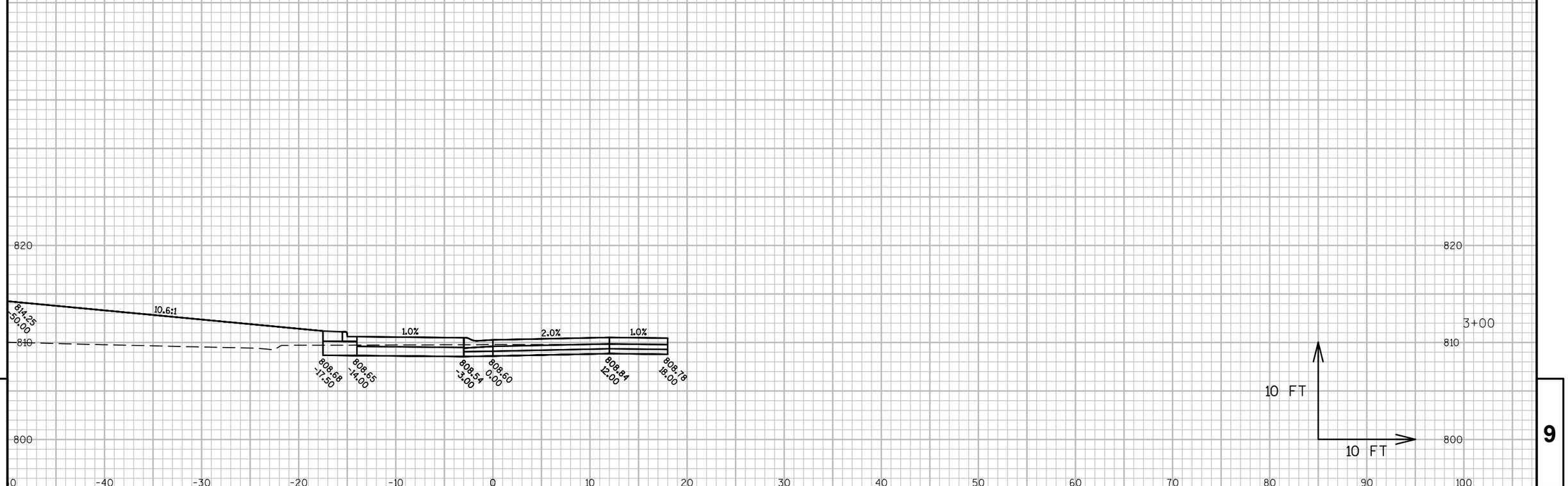
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: RAB	SHEET 359	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - RAB - (4)

PLOT DATE : 4/3/2018 8:52 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

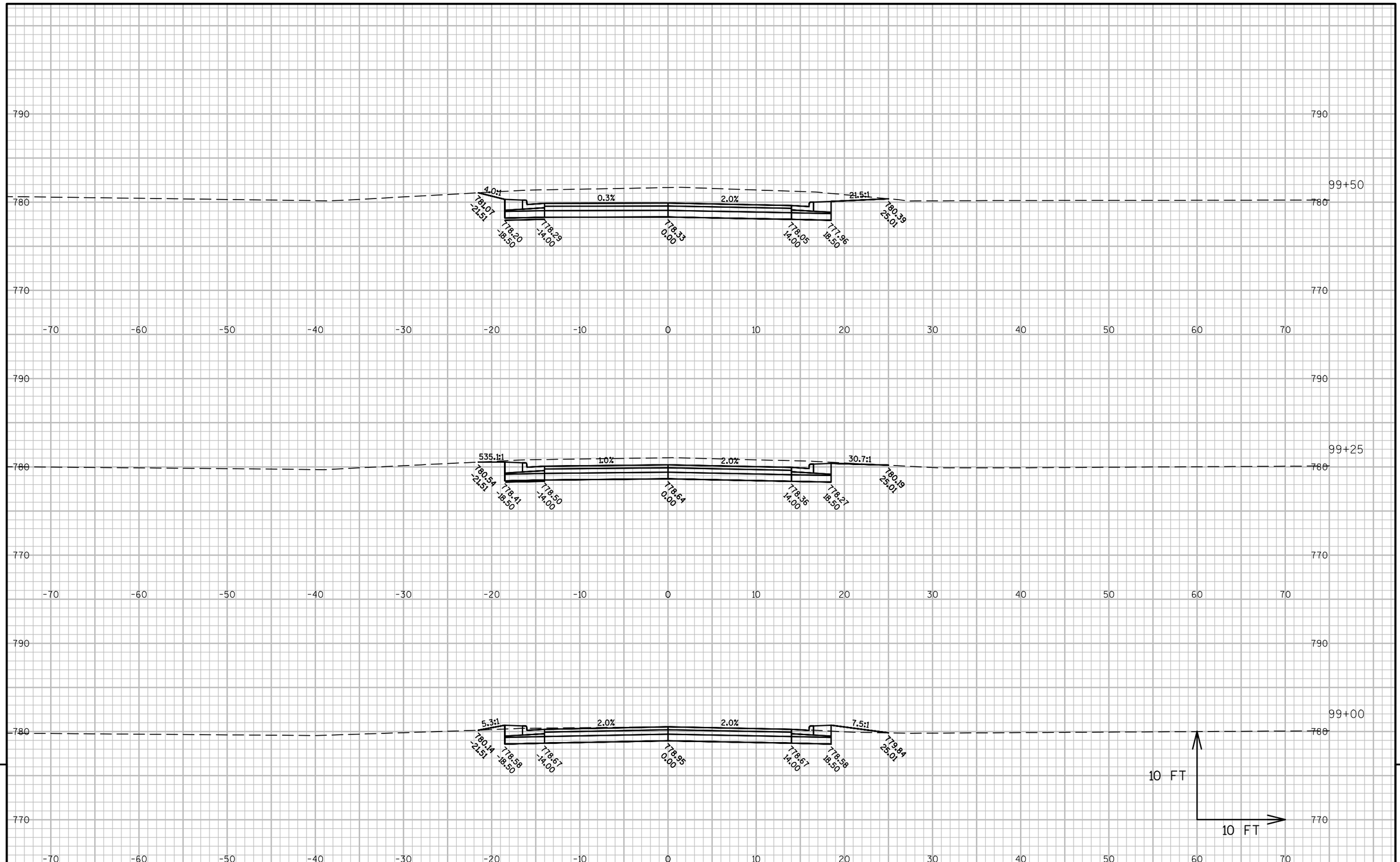


9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: RAB	SHEET 360	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_XS - RAB - (5)
PLOT DATE : 4/3/2018 8:52 AM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

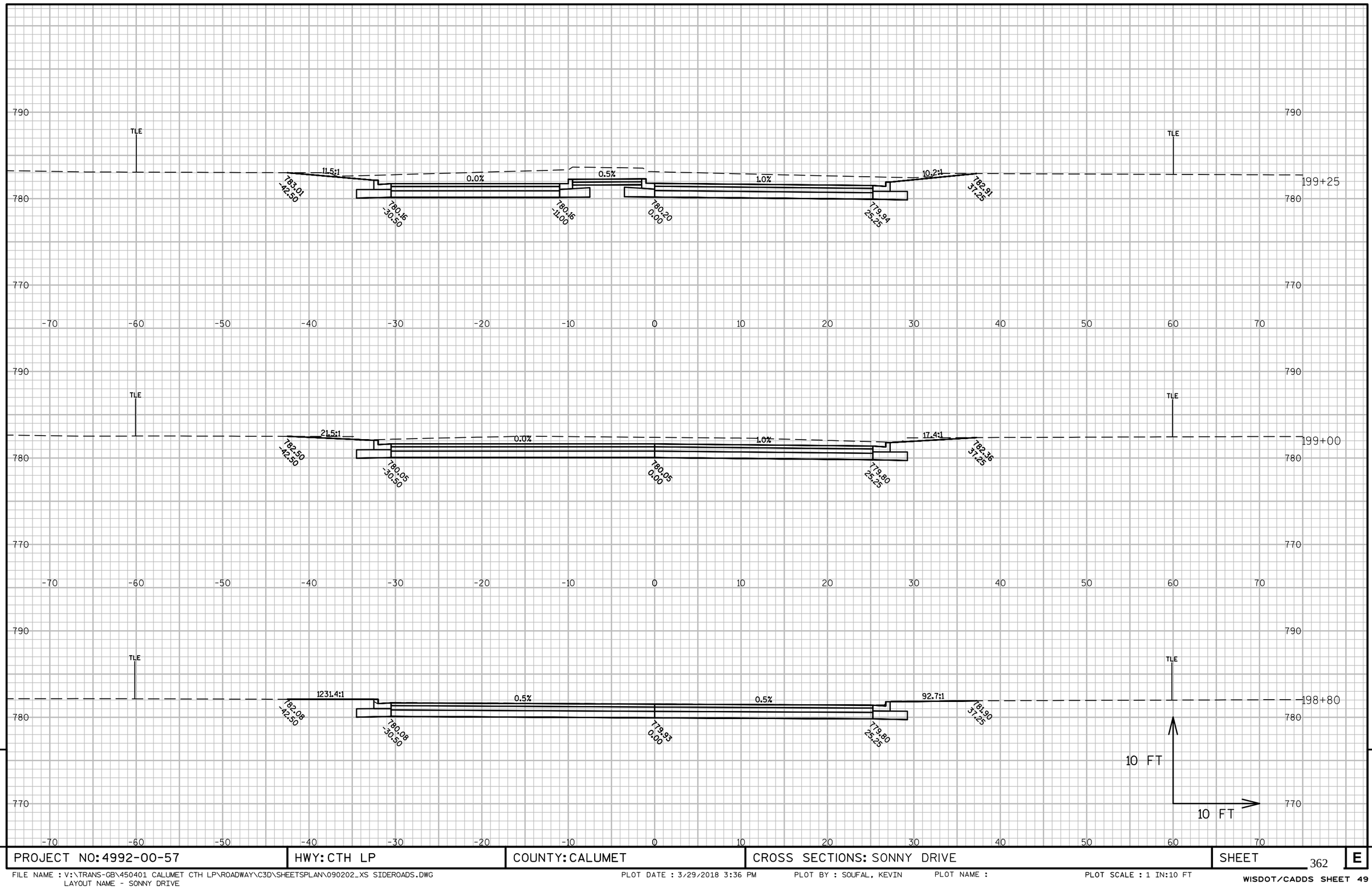
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: COMMUNITY DRIVE	SHEET 361	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - COMMUNITY DRIVE

PLOT DATE : 3/29/2018 3:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

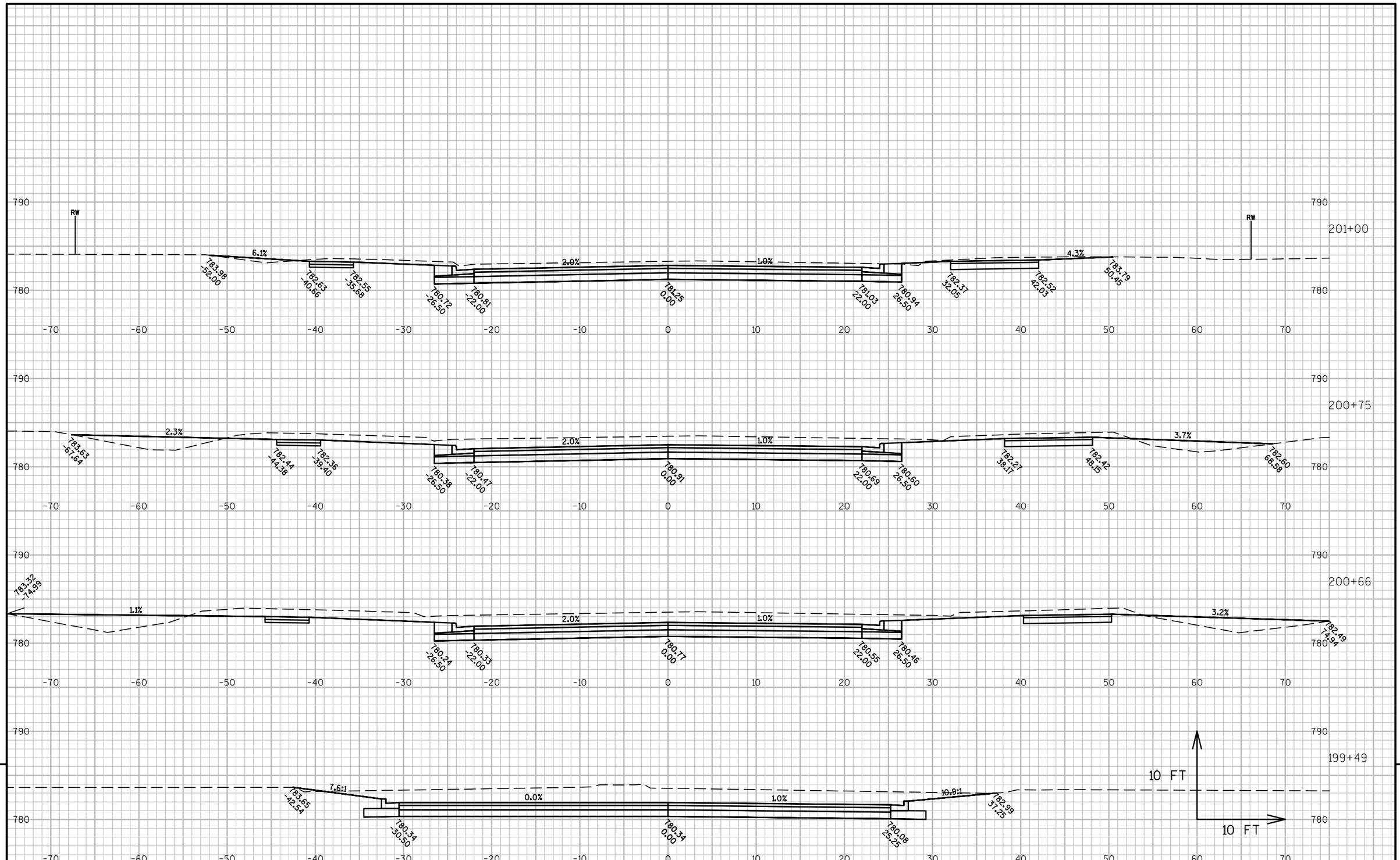


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: SONNY DRIVE	SHEET 362	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - SONNY DRIVE

PLOT DATE : 3/29/2018 3:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

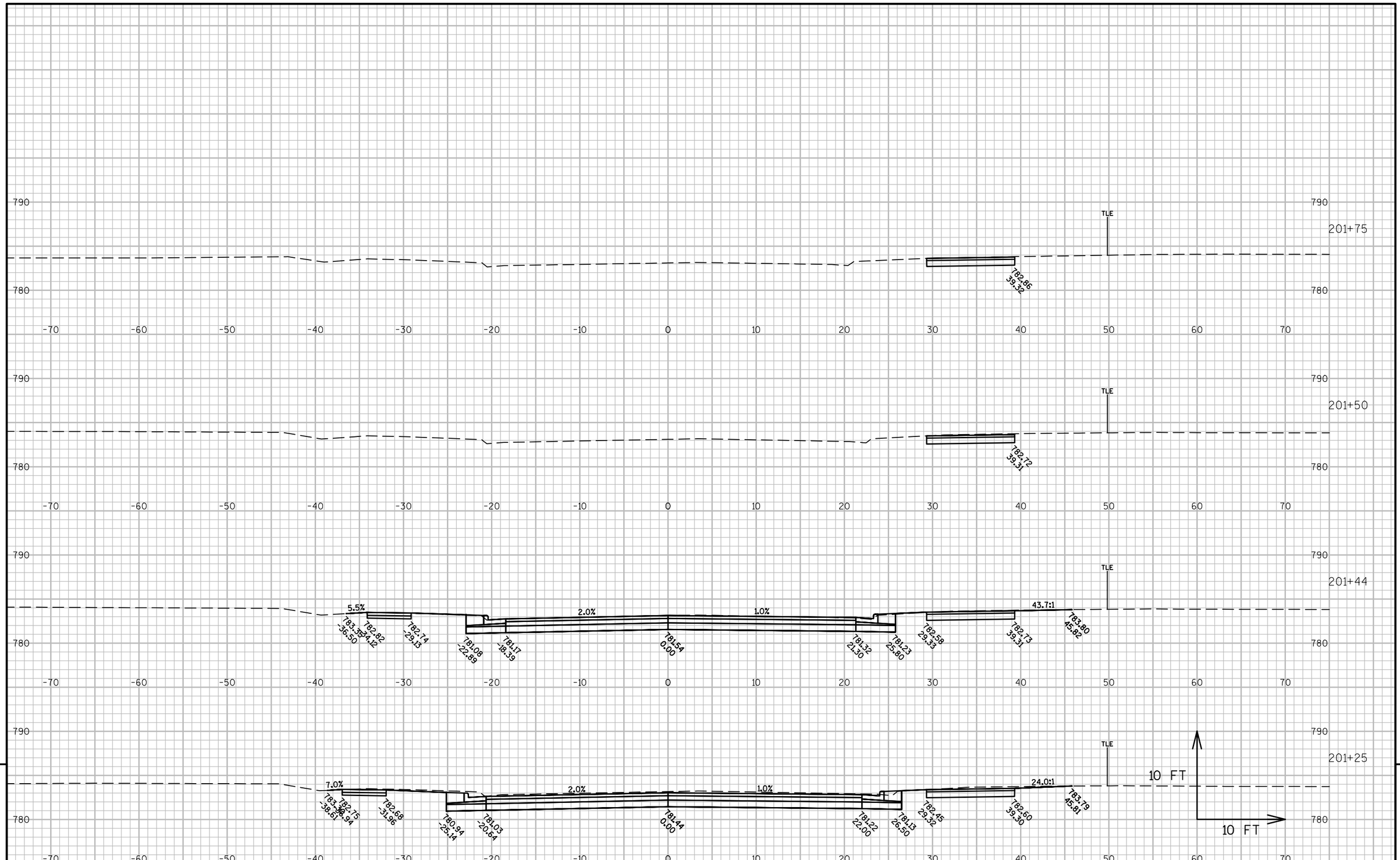
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: SONNY DRIVE	SHEET 363	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - SONNY DRIVE

PLOT DATE : 4/13/2018 12:01 PM PLOT BY : SCHAITEL, RYAN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

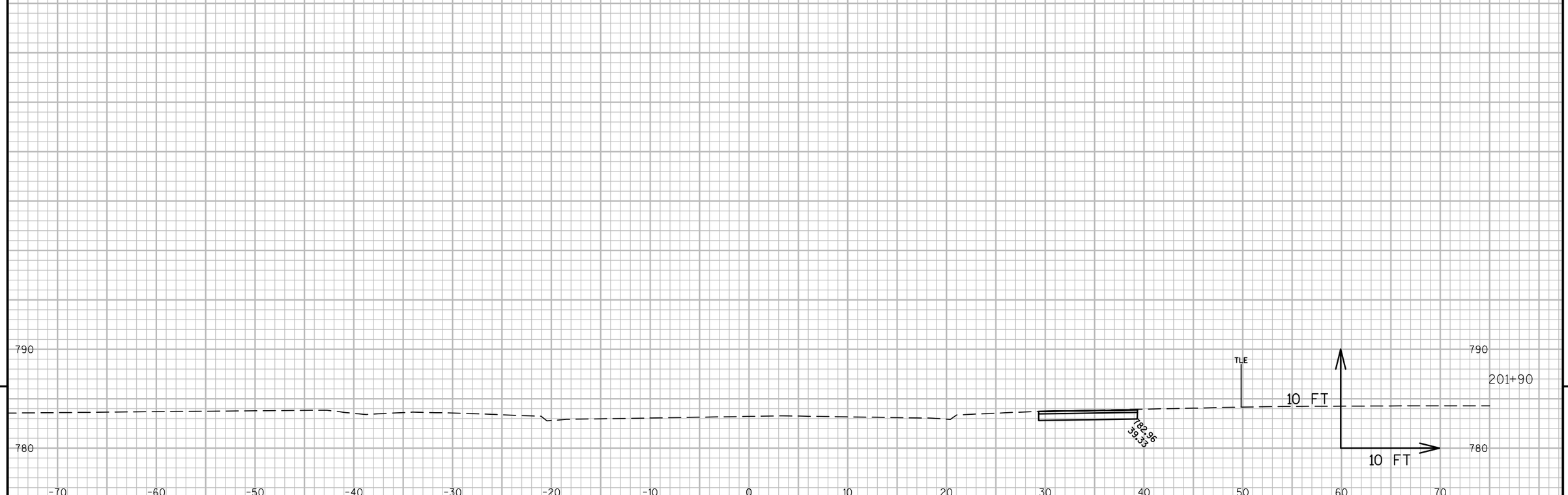
PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: SONNY DRIVE	SHEET 364	E

9

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - SONNY DRIVE

PLOT DATE : 3/29/2018 3:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

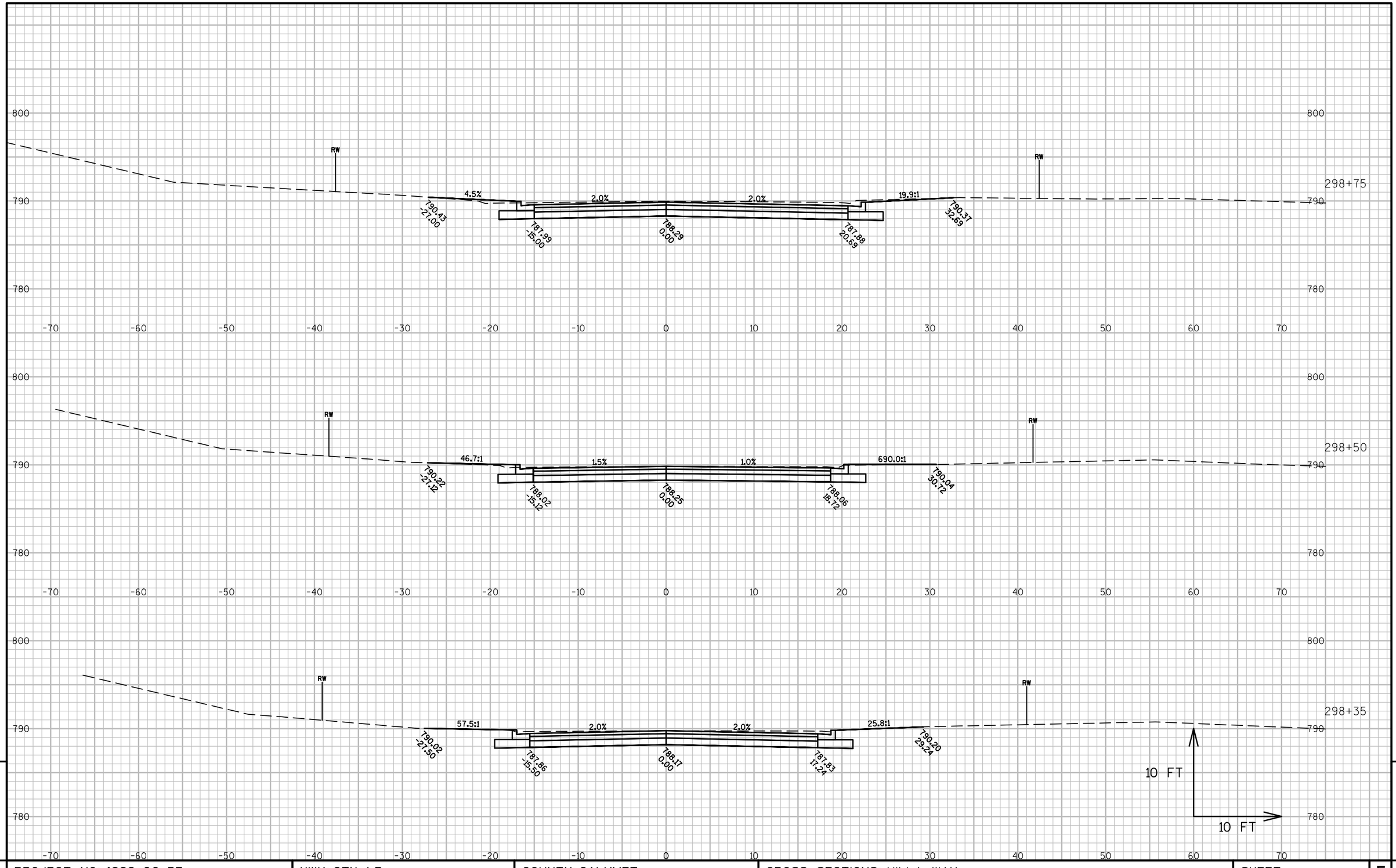
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: SONNY DRIVE	SHEET 365	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - SONNY DRIVE

PLOT DATE : 3/29/2018 3:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

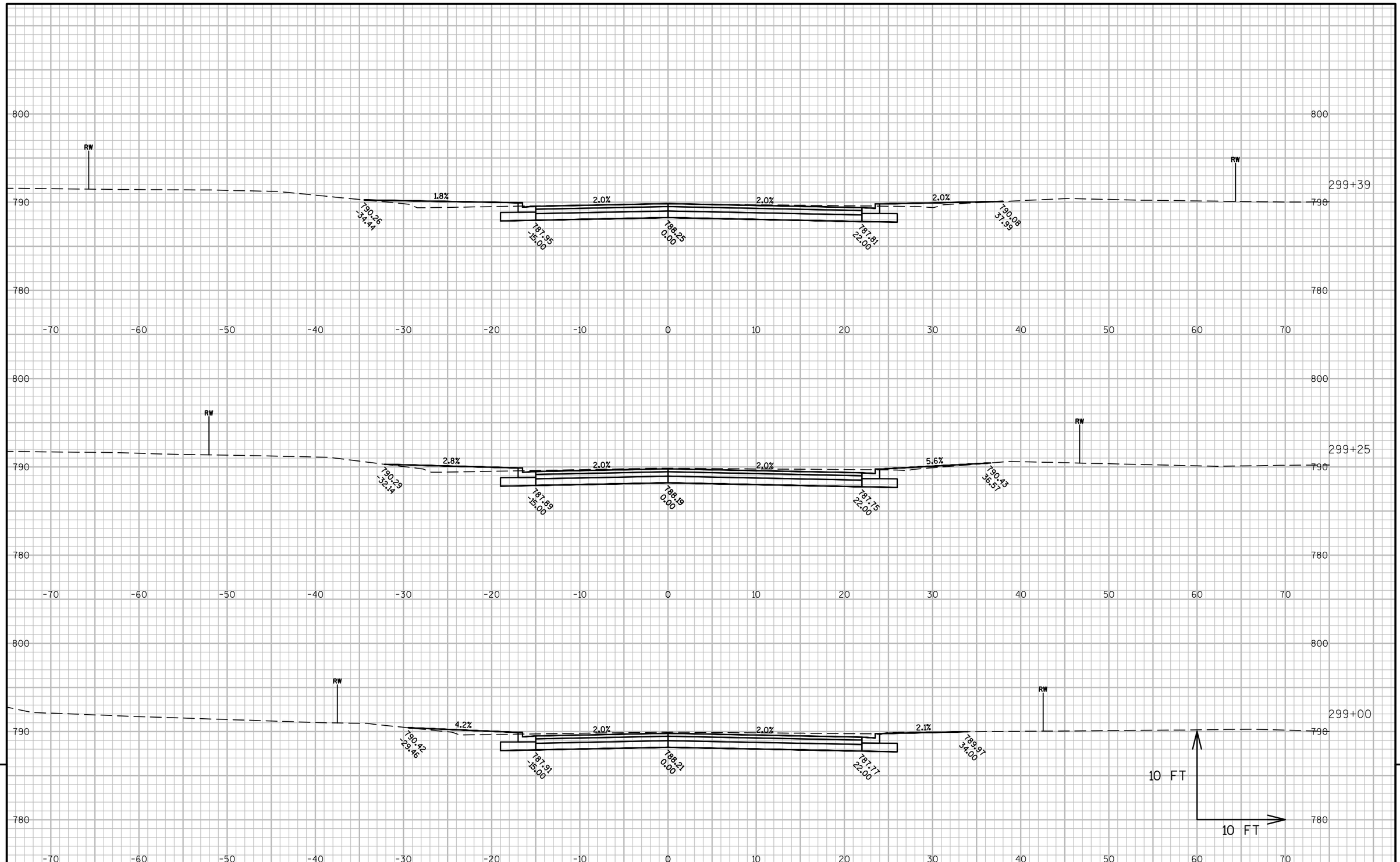
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: VILLA WAY	SHEET 366	E

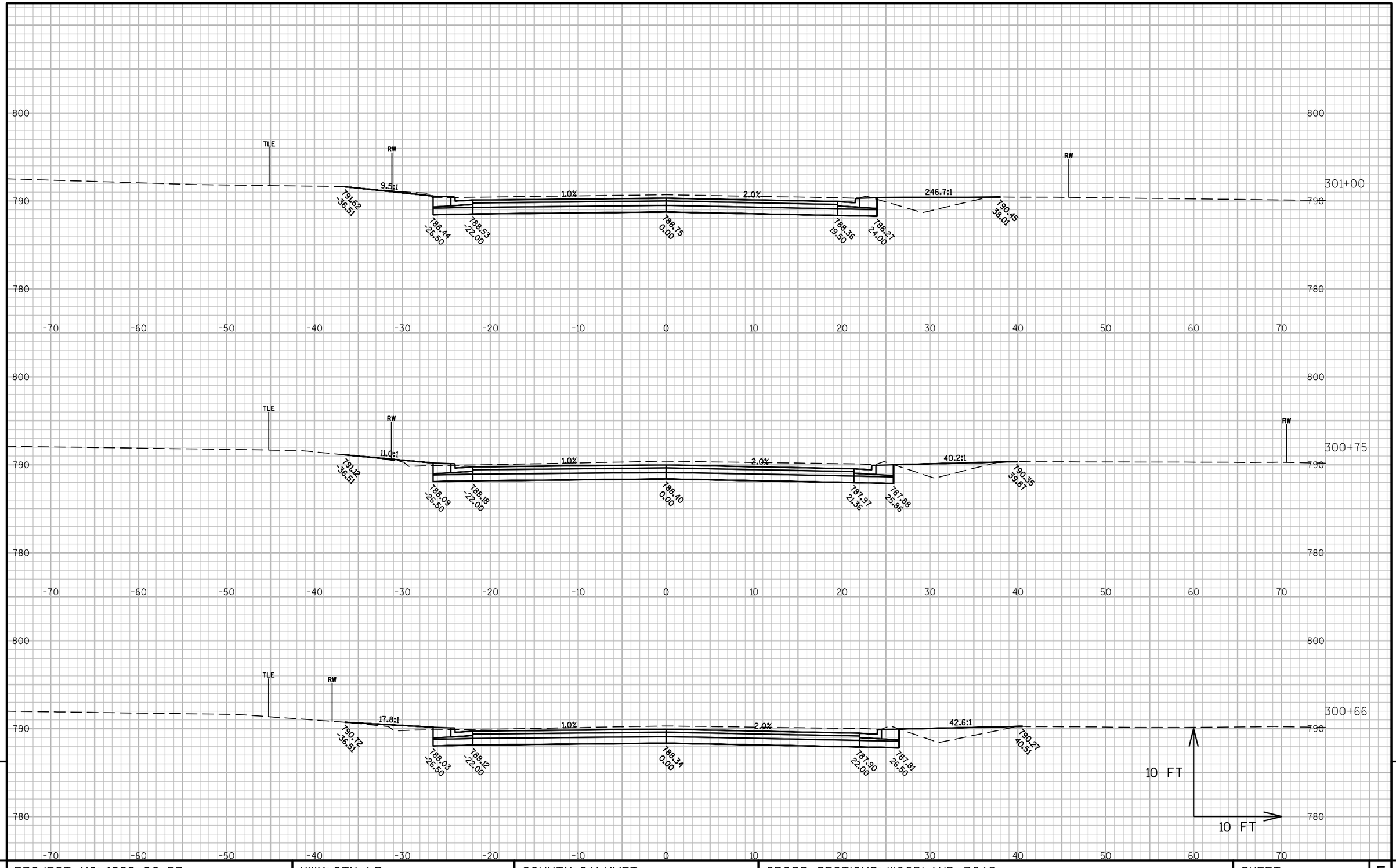


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: VILLA WAY	SHEET 367	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - VILLA WAY

PLOT DATE : 3/29/2018 3:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

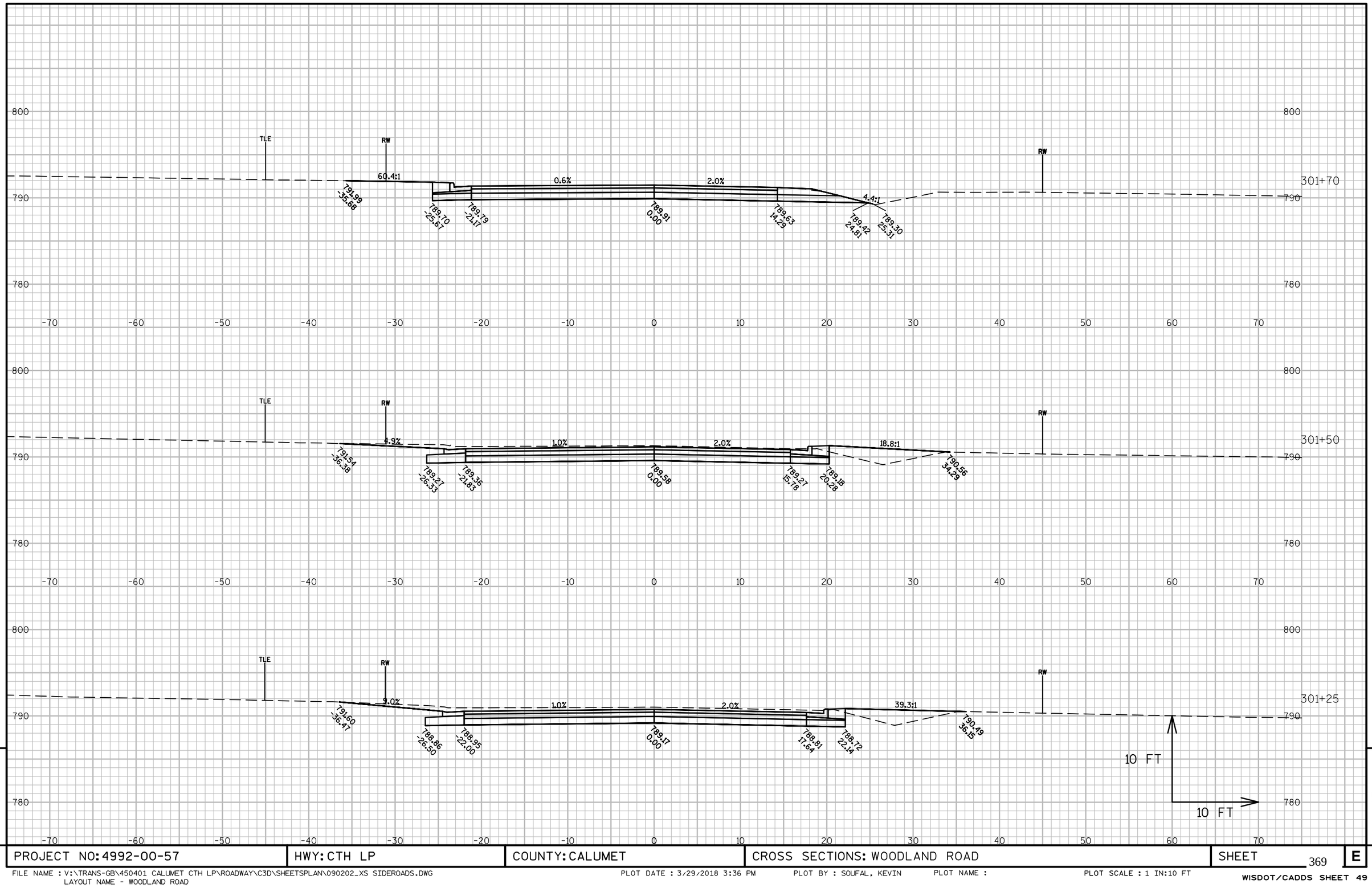


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: WOODLAND ROAD	SHEET 368	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - WOODLAND ROAD

PLOT DATE : 3/29/2018 3:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

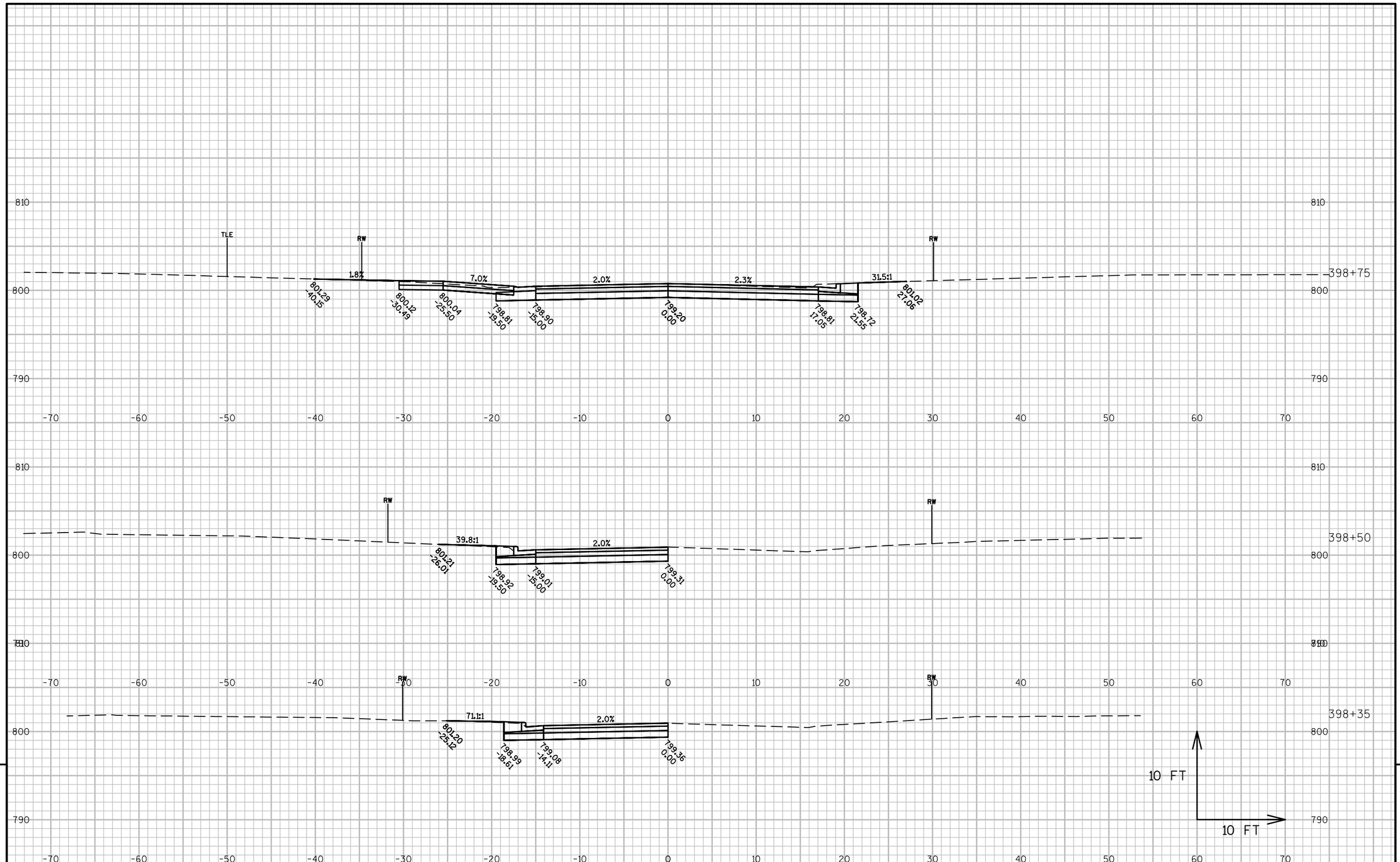


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: WOODLAND ROAD	SHEET 369	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - WOODLAND ROAD

PLOT DATE : 3/29/2018 3:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

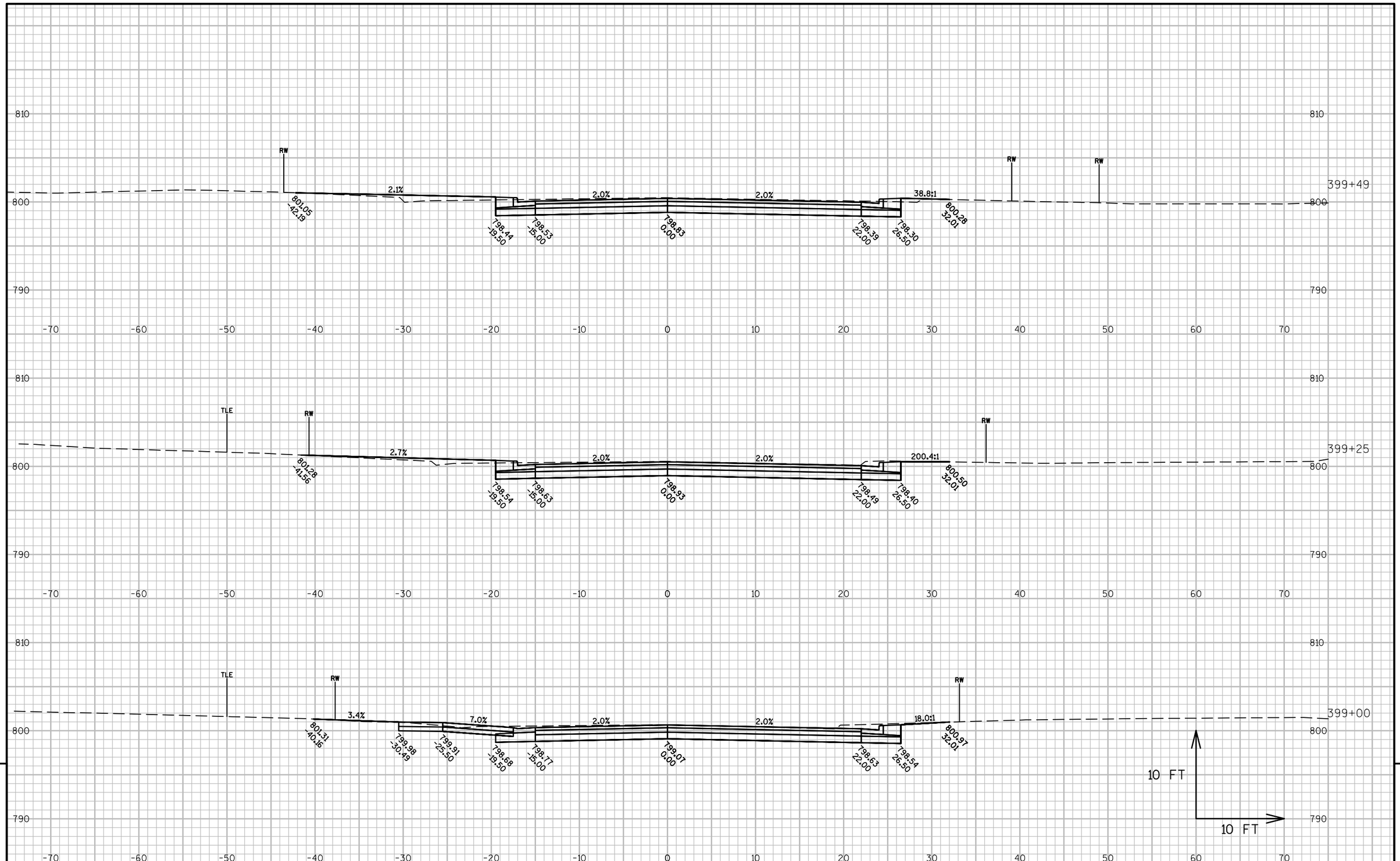
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PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: WINNIPEG STREET	SHEET 370	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - WINNIPEG STREET

PLOT DATE : 3/29/2018 3:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

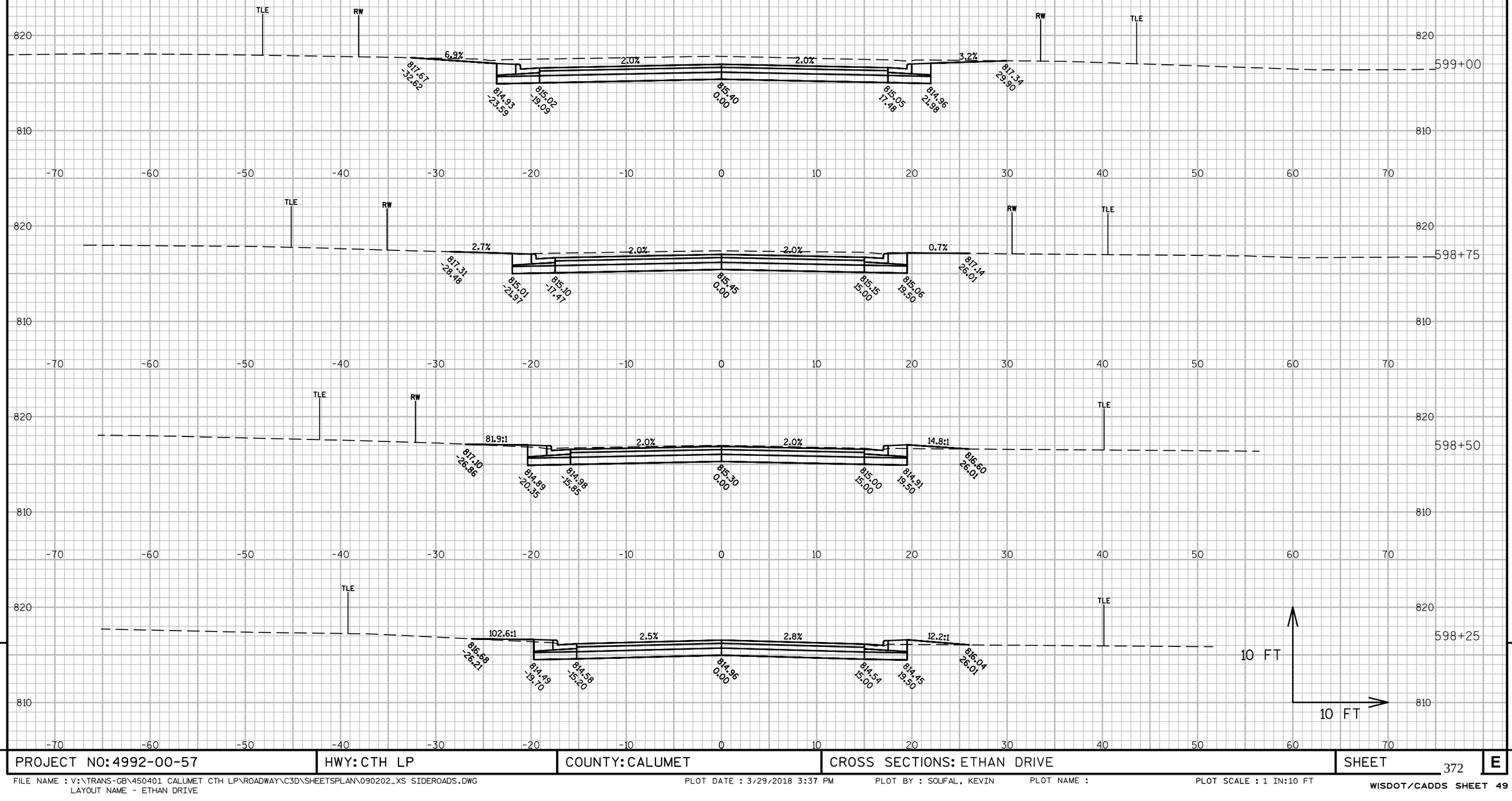


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: WINNIPEG STREET	SHEET 371	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - WINNIPEG STREET

PLOT DATE : 3/29/2018 3:37 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

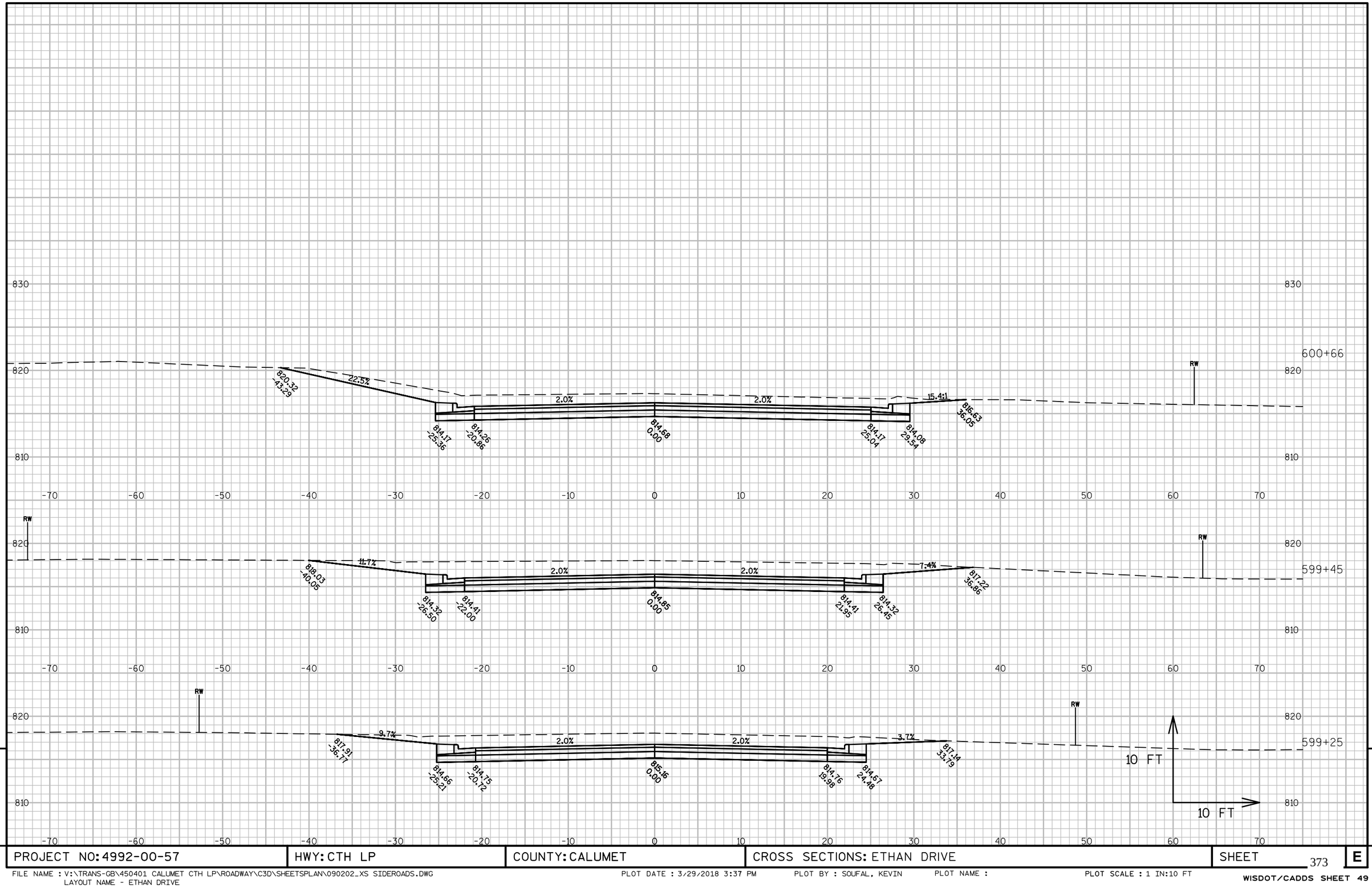


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: ETHAN DRIVE	SHEET 372	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - ETHAN DRIVE

PLOT DATE : 3/29/2018 3:37 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

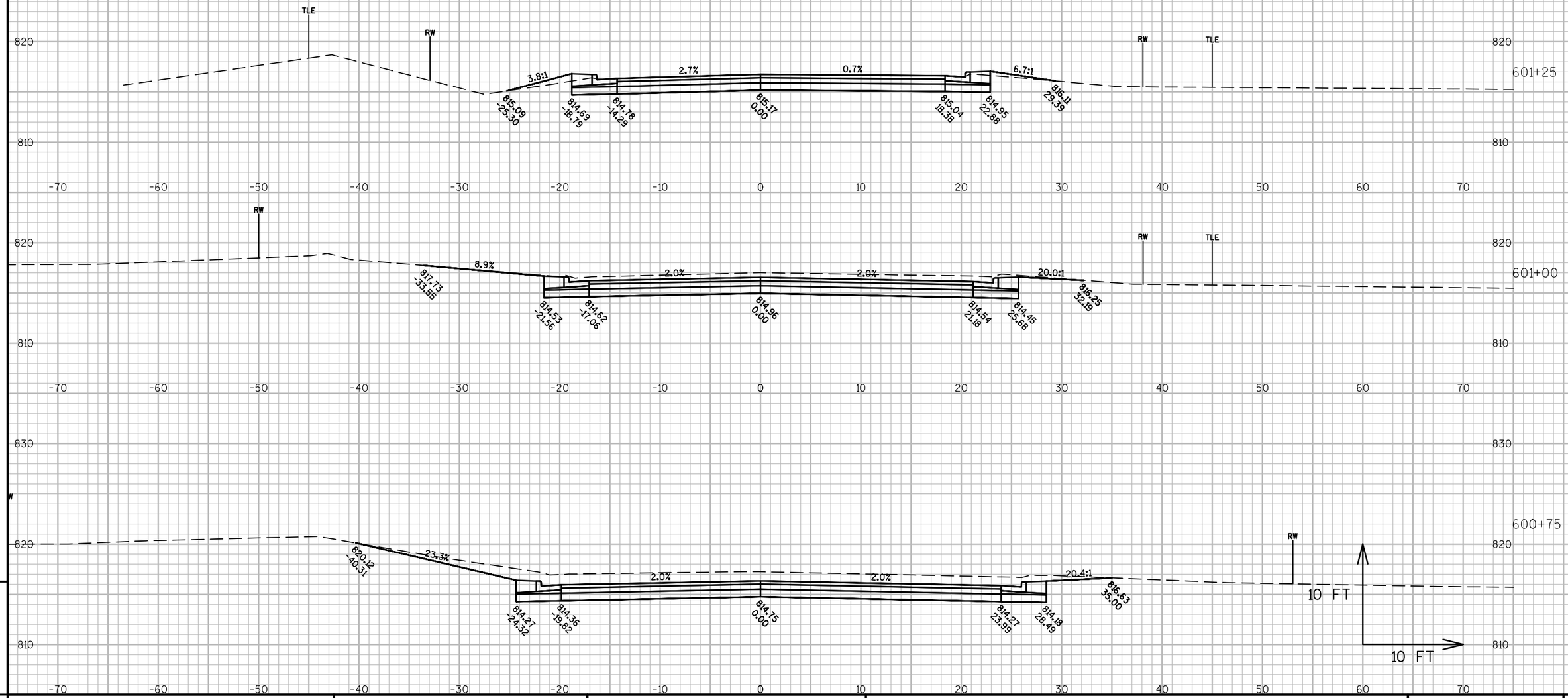


PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: ETHAN DRIVE	SHEET 373	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - ETHAN DRIVE

PLOT DATE : 3/29/2018 3:37 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4992-00-57	HWY: CTH LP	COUNTY: CALUMET	CROSS SECTIONS: ETHAN DRIVE	SHEET 374	E

FILE NAME : V:\TRANS-GB\450401 CALUMET CTH LP\ROADWAY\C3D\SHEETSPLAN\090202_XS SIDEROADS.DWG
LAYOUT NAME - ETHAN DRIVE

PLOT DATE : 3/29/2018 3:37 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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