NEL JAN 2017

PROJECT ID: 4986-00-22

WITH: N/A

COUNTY: FOND DU LAC

ORDER OF SHEETS

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

TOTAL SHEETS = 474

08

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C FOND DU LAC, CTH VV

HICKORY ST TO ROGERSVILLE RD

CTH VV

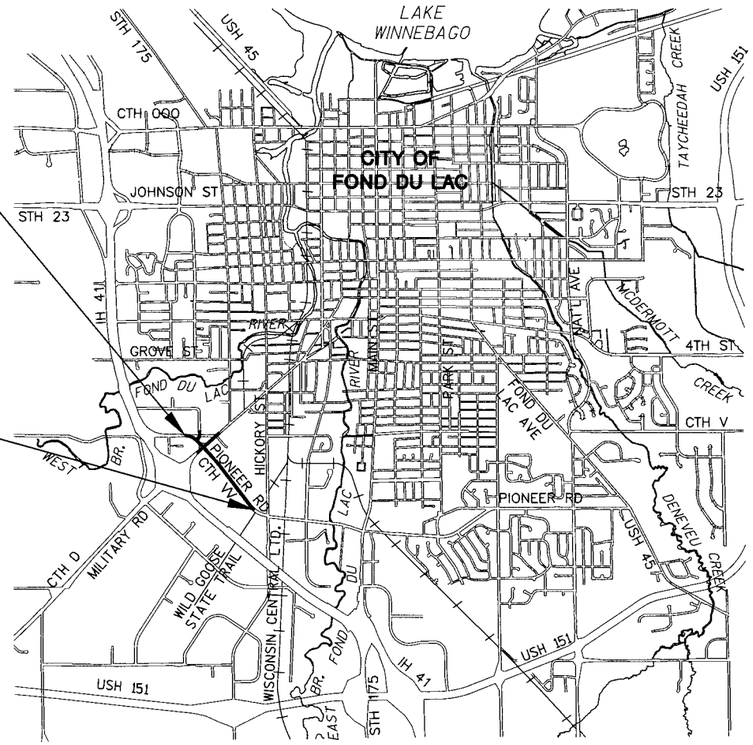
FOND DU LAC

STATE PROJECT NUMBER
4986-00-22

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4986-00-22	WISC 2017007	1

BEGIN PROJECT
STA. 272'EB'+00.00
Y = 380205.503
X = 809928.980

END PROJECT
STA. 311'EB'+06.90



LAYOUT
SCALE 0 — 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.740 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, FOND DU LAC COUNTY, NAD83 (1997), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

DESIGN DESIGNATION CTH VV — MILITARY ROAD

A.A.D.T.	(2017)	= 11,200 VPD	= 15,900 VPD
A.A.D.T.	(2037)	= 12,500 VPD	= 18,600 VPD
D.H.V.		= 1,195 VPD	= 1,340 VPD
D.D.		= 59/41	= 59/41
T.		= 4.9%	= 6.9%
DESIGN SPEED		= 40 MPH	= 40 MPH
ESALS		= 1,059,686 PCC	= 2,726,276 PCC

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ACCEPTED FOR
FOND DU LAC COUNTY
7/19/16 (Date)
THOMAS JANKE
HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED BY

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac
93 South Pioneer Road, Suite 300 • Fond du Lac, WI 54935
(920) 924-5720 • fax (920) 924-5725

WISCONSIN
BENJAMIN L. OITZINGER
E-36149
NEENAH, WI
PROFESSIONAL ENGINEER

7-19-2016 (Date)
BENJAMIN L. OITZINGER, PE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
- Surveyor: GREMMER & ASSOCIATES, INC.
- Designer: GREMMER & ASSOCIATES, INC.
- Management Consultant: SEH, INC.

APPROVED FOR THE DEPARTMENT
DATE: 7/26/16 (Management Consultant Signature)

E

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

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

A VERTICAL SAW CUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS, SIDEWALKS AND PAVEMENTS AT THE REMOVAL LIMITS.

SAWCUT LOCATIONS SHOWN ON THE PLANS ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE DENSE, HMA PAVEMENT OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE MATERIAL SHOWN ON THE PLAN IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND LAYOUT OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

TOPSOIL, FERTILIZER, SEED AND EROSION MAT AS SHOWN IN PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE PLACED ON ALL DISTURBED AREAS, EXCLUSIVE OF THE AREA OCCUPIED BY THE NEW PAVEMENTS, SIDEWALKS, ENTRANCES, AND RELATED STRUCTURES.

SECTIONS AS SHOWN ON THE CROSS-SECTIONS INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED.

CURB AND GUTTER RADII ARE SHOWN TO THE FACE OF CURB.

CONTRACTOR SHALL VERIFY EXISTING PIPE SIZES, MATERIALS AND INVERT ELEVATIONS WHEN CONNECTING NEW STORM SEWER INTO EXISTING PIPES PRIOR TO MANUFACTURING INLETS AND MANHOLES.

ROTATE MANHOLE COVERS TO MATCH LANE LINES OR CENTER OF LANE AS DIRECTED BY THE ENGINEER IN THE FIELD.

ADDITIONAL DOWEL BARS AND CONTRACTION JOINTS DOWEL ASSEMBLIES REQUIRED TO MATCH MANHOLES, INLETS, AND SIDE ROADS SHALL BE INCIDENTAL TO THE CONCRETE PAVEMENT ITEM.

EROSION CONTROL ITEMS SHOWN ARE APPROXIMATE, THE EXACT LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVAL OF ASPHALTIC PAVEMENT SHALL BE MEASURED AND PAID FOR AS EXCAVATION COMMON.

REMOVAL OF ANY MESH OR REINFORCEMENT FOUND IN CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM.

ABBREVIATIONS

AEW	APRON ENDWALL
AGG	AGGREGATE
AH	AHEAD
ASP	ASPHALT
BK	BACK
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
CC	CENTER OF CURVATURE
CE	COMMERCIAL ENTRANCE
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
E	EXTERNAL DISTANCE FROM MIDPOINT OF CIRCULAR CURVE FROM ANGLE INTERSECTION
EB	EASTBOUND
ELEV	ELEVATION
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
HP	HIGH POINT
HT	HEIGHT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
NOM	NOMINAL
NORM	NORMAL
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SEG	SEGMENT
SF	SQUARE FOOT
SS	STORM SEWER
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VC	VERTICAL CURVE
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPRC	POINT OF VERTICAL REVERSE CURVE
VPT	POINT OF VERTICAL TANGENT
WB	WESTBOUND
WCL	WISCONSIN CENTRAL LTD.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
PAVING DETAILS
PAVEMENT GRADES
EROSION CONTROL PLAN
STORM SEWER LAYOUT
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
ALIGNMENT DIAGRAM

REFERENCE LINE CALL OUTS

'EB'	CTH VV EASTBOUND
'WB'	CTH VV WESTBOUND
'NB'	MILITARY ROAD NORTHBOUND
'SB'	MILITARY ROAD SOUTHBOUND
'SUL'	SULIVAN DRIVE
'OAK'	OAK PARK AVENUE
'RAB'	ROUNDABOUT
'MM'	MERCURY MARINE ENTRANCE
'PR'	PRIVATE ROAD

UTILITIES

ELECTRIC & GAS

* (MAIN OFFICE)
ALLIANT ENERGY CORPORATION
4902 NORTH BILTMORE LANE
MADISON, WI 53718-2148
PHONE: (608) 458-4871
MOBILE: (608) 395-7395
ATTN: JASON HOGAN
EMAIL: JasonHogan@alliantenergy.com

(LOCAL OFFICE)
ALLIANT ENERGY CORPORATION
883 WEST SCOTT STREET
FOND DU LAC, WI 54937-2032
PHONE: (920) 322-6716
ATTN: BILL BASTIAN
EMAIL: WilliamBastian@alliantenergy.com

ELECTRIC TRANSMISSION

* AMERICAN TRANSMISSION COMPANY
801 O'KEEFE ROAD
DEPERE, WI 54241
PHONE: (920) 338-6556
MOBILE: (920) 680-6322
ATTN: KIM HACKELBERG
EMAIL: khackelberg@atcllc.com

COMMUNICATIONS

* CHARTER COMMUNICATIONS
1623 BROADWAY AVENUE
SHEBOYGAN, WI 53081
PHONE: (608) 826-1619
MOBILE: (920) 263-0074
ATTN: BRUCE HENRY
EMAIL: bruce.henry@chartercom.com

* DENOTES MEMBER OF DIGGERS HOTLINE

COMMUNICATIONS

* AT&T LEGACY
LL A
866 ROCK CREEK ROAD
PLANO, IL 60545
PHONE: (630) 552-9785
MOBILE: (847) 420-9115
ATTN: CARL DONAHUE
EMAIL: cd8729@att.com

COMMUNICATIONS

* AT&T
70 EAST DIVISION STREET
FOND DU LAC, WI 54935
PHONE: (920) 929-8459
MOBILE: (920) 202-0652
ATTN: LISA SUPRENAND
EMAIL: ad5647@att.com

WATER

* CITY OF FOND DU LAC
109 NORTH MACY STREET
P.O. BOX 150
FOND DU LAC, WI 54936-0150
PHONE: (920) 322-3682
ATTN: PETER HARTZ
EMAIL: phartz@fdl.wi.gov

SEWER

* CITY OF FOND DU LAC
160 SOUTH MACY STREET
P.O. BOX 150
FOND DU LAC, WI 54936-0150
PHONE: (920) 322-3473
MOBILE: (920) 517-7890
ATTN: PAUL DEVRIES
EMAIL: pdevries@fdl.wi.gov

ELECTRICAL

* CITY OF FOND DU LAC
530 DOTY STREET
FOND DU LAC, WI 54935
PHONE: (920) 322-3542
MOBILE:
ATTN: STEPHEN KEES
EMAIL: skees@fdl.wi.gov

* MILLS FLEET FARM
1300 SOUTH LYNNDALE DRIVE
APPLETON, WI 54912-1199
PHONE: (920) 997-8354
MOBILE:
ATTN: HUGH LEASUM
EMAIL: hugh.leasum@millsfleetfarm.com

* MERCURY MARINE
DIVISION OF BRUNSWICK CORP.
W6250 PIONEER ROAD
FOND DU LAC, WI 54935
PHONE: (920) 929-4909
MOBILE: (262) 483-9370
ATTN: MICHAEL HINCKLEY
EMAIL: michael.hinckley@mercurymarine.com

NATURAL GAS

* TRANCANADA
W3952 PIPELINE LANE
EDEN, WI 53019-0316
PHONE: (920) 477-2235
ATTN: LARRY HUBER
EMAIL: Lawrence_Huber@transcanada.com

(FIELD CONTACT)
ERIC BARTH
PHONE: (262) 626-3437
MOBILE: (920) 547-0316

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

DNR AREA LIAISON

WISCONSIN DEPT. OF NATURAL RESOURCES
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
PHONE: (920) 662-5130
ATTN: MR. JAY SCHIEFELBEIN
EMAIL: jeremiah.schefelbein@wisconsin.gov

2

BENCH MARKS

BM	STATION	OFFSET	DESCRIPTION	ELEVATION
B			TOP OF SW BOLT ON BASE OF TRANSMISSION POLE, NW CORNER OF CTH VV AND HICKORY ST.	787.70
K	37'WB'+10	36' LT	BOLT AT ARROW ON FLANGE OF HYDRANT, N. SIDE OF CTH VV, 150' E. OF MERCURY MARINE C.E. TO GATE 4 & 17	786.57
L	299'EB'+98	36' LT	BOLT AT ARROW ON FLANGE OF HYDRANT, N. SIDE OF CTH VV, 400' W. OF MERCURY MARINE C.E. TO GATE 4 & 17	784.75
M	292'WB'+97	34' LT	BOLT AT ARROW ON FLANGE OF HYDRANT, N. SIDE OF CTH VV, 200' E. OF MERCURY MARINE C.E. TO GATE 10	783.00
N	286'WB'+79	38' LT	SOUTH BOLT ON FLANGE OF HYDRANT, N. SIDE OF CTH VV AT MARINE CREDIT UNION	785.29
O	280'WB'+13	39' LT	BOLT AT ARROW ON FLANGE OF HYDRANT, N. SIDE OF CTH VV, 150' NW OF MILITARY RD.	785.30
P	454'NB'+92	29' RT	NE BOLT ON FLANGE OF HYDRANT, NE CORNER OF MILITARY RD. AND OAK PARK AVE.	783.18
Q	521'SUL'+63	1' RT	BOLT AT ARROW ON FLANGE OF HYDRANT, NW CORNER OF ROGERSVILLE RD. AND SULLIVAN DR.	782.96
R	273'WB'+85	24' LT	BOLT AT ARROW ON FLANGE OF HYDRANT, N. SIDE OF CTH VV AT VALLEY TRUCK LEASING	786.09
S			BOLT AT ARROW ON FLANGE OF HYDRANT, SW CORNER OF CTH VV AND TRIANGLE RD.	787.49

**VERTICAL DATUM REFERENCED TO NAVD 88

END CONSTRUCTION
STA 457'NB'+84.00

END CONSTRUCTION
STA 524'SUL'+50.00

END CONSTRUCTION
STA 314'WB'+44.69

END PROJECT
STA 311'EB'+06.90

BEGIN PROJECT
STA 272'EB'+00.00

BEGIN CONSTRUCTION
STA 442'NB'+96.50

STA AHEAD = 291'WB'+94.23
STA BACK = 291'WB'+95.69

OAK PARK AVENUE
ROGERSVILLE ROAD
MILITARY ROAD
SULLIVAN DRIVE
CTH VV
PIONEER ROAD
FLEET FARM
MANOWSKE WELDING
MARINE CREDIT UNION
MERCURY MARINE
MERCURY MARINE

CP 30 CP 31 CP 32 CP 33 CP 34 CP 35 CP 36 CP 37 CP 38
BM K BM L BM M BM N BM O BM P BM Q BM R BM S BM B

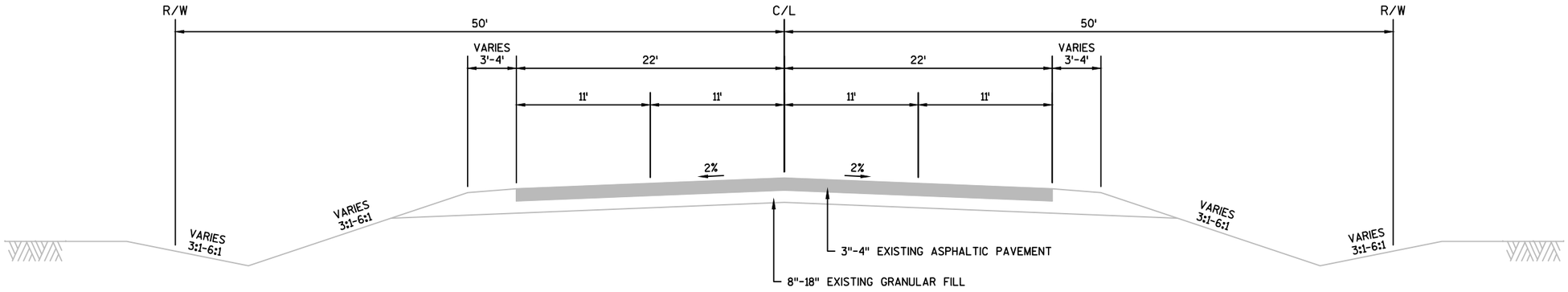
460'NB' 455'SB' 455'NB' 450'SB' 450'NB' 445'SB' 445'NB' 440'SB' 440'NB' 435'NB'
285'SUL' 530'SUL'
270'WB' 275'WB' 280'WB' 285'WB' 290'WB' 295'WB' 300'WB' 305'WB' 310'WB'
270'EB' 275'EB' 280'EB' 285'EB' 290'EB' 295'EB' 300'EB' 305'EB' 310'EB'

CONTROL POINT TABLE

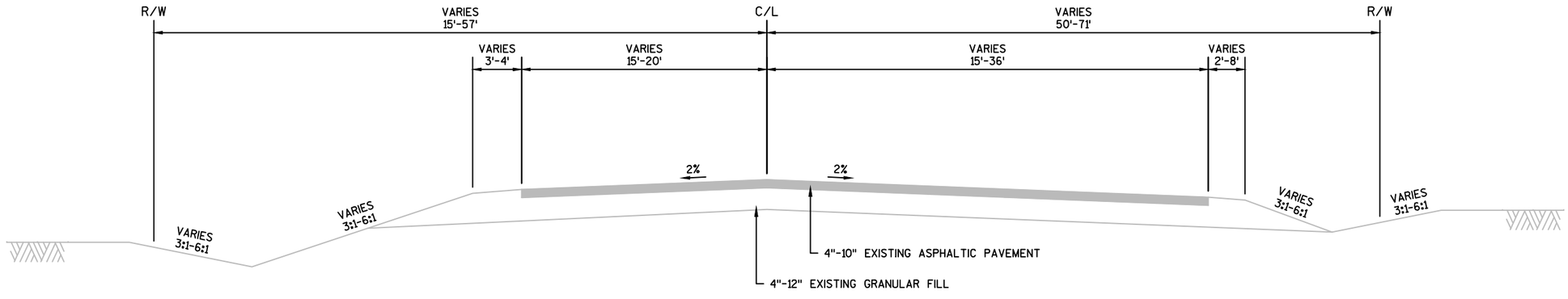
POINT #	NORTHING	EASTING
30	380170.920	809604.514
31	380180.592	810473.787
32	380159.382	811190.703
33	379744.612	810772.023
34	379179.230	811263.452
35	378117.423	812134.011
36	377530.938	812562.401
37	380770.217	810691.037
38	381309.117	810648.463

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-020201-PO.DWG PLOT DATE : 7/29/2016 8:28 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : 1 IN:300 FT
WISDOT/CADDS SHEET 42

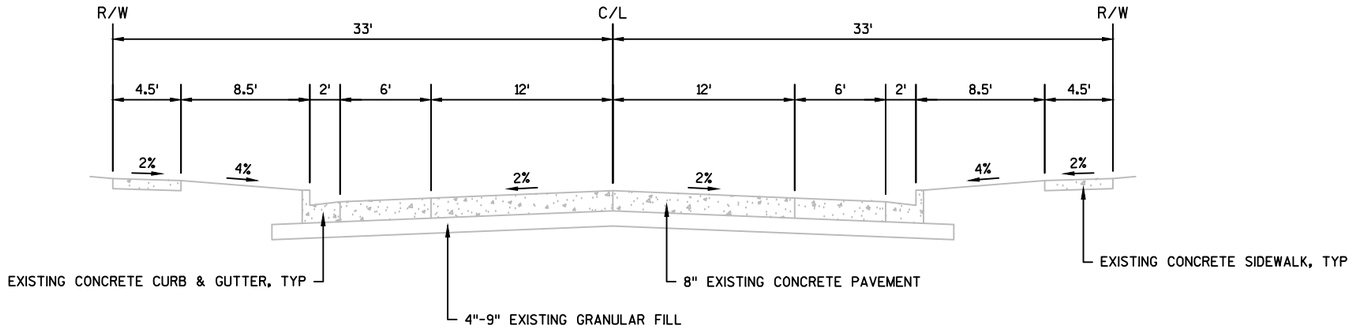


TYPICAL EXISTING SECTION
CTH VV
STA 282'EB'+88 - STA 311'EB'+07

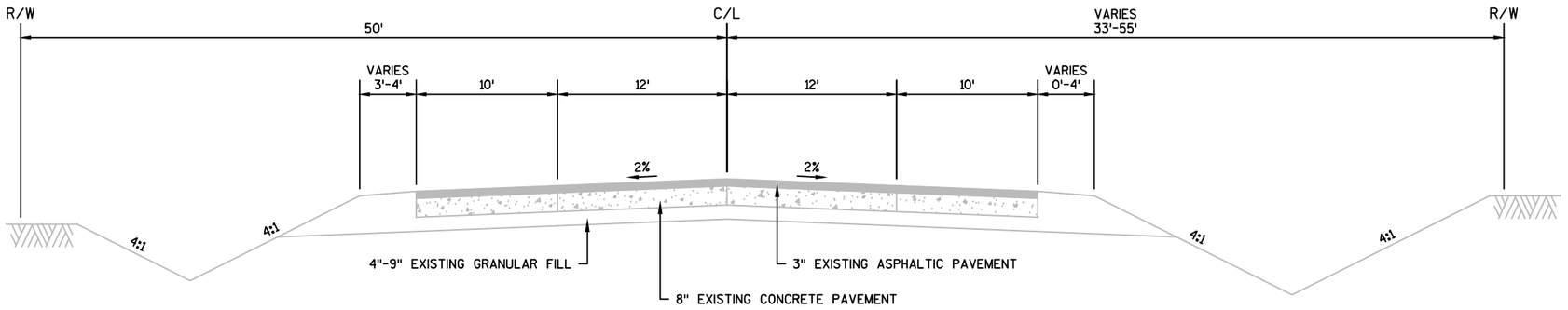


TYPICAL EXISTING SECTION
CTH VV
STA 272'EB'+00 - STA 282'EB'+88

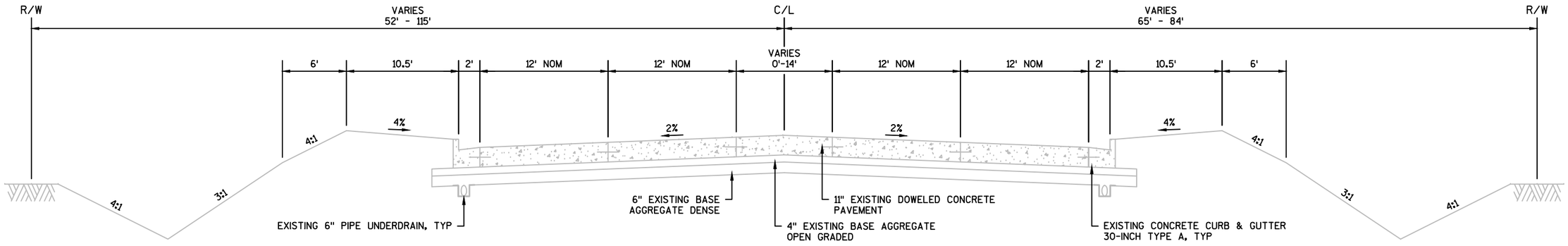
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 4	E



TYPICAL EXISTING SECTION
MILITARY ROAD
STA 452'NB'+82 - STA 457'NB'+58

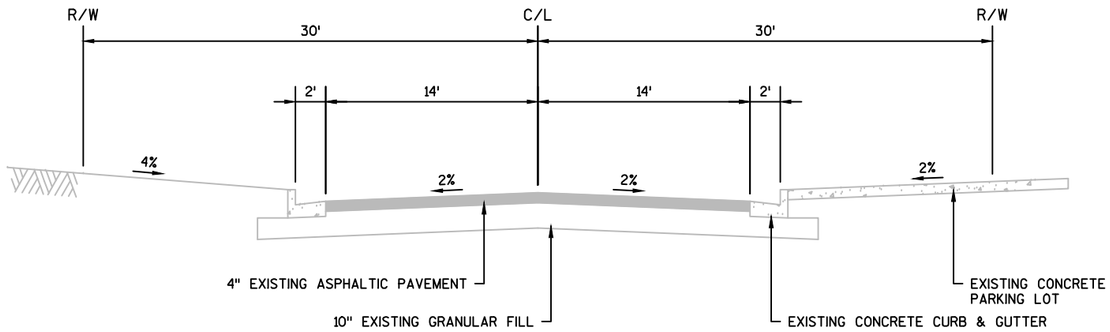


TYPICAL EXISTING SECTION
MILITARY ROAD
STA 446'NB'+93 - STA 452'NB'+82

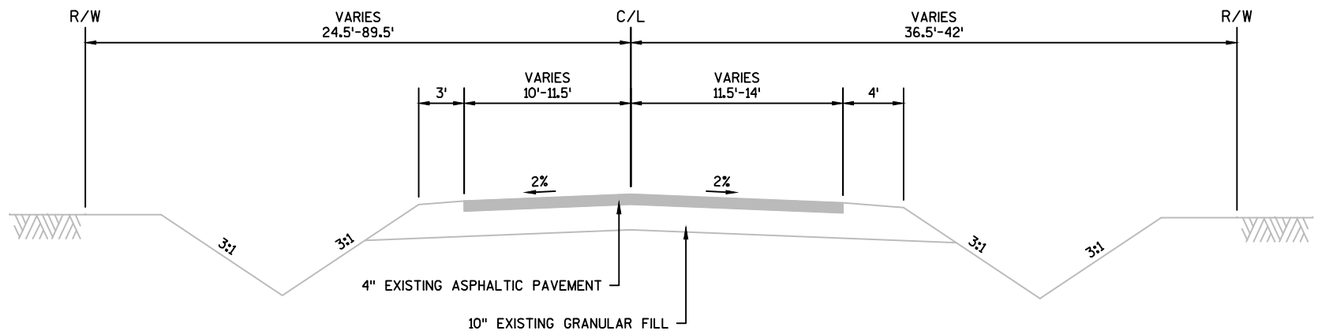


TYPICAL EXISTING SECTION
MILITARY ROAD
STA 442'NB'+97 - STA 446'NB'+93

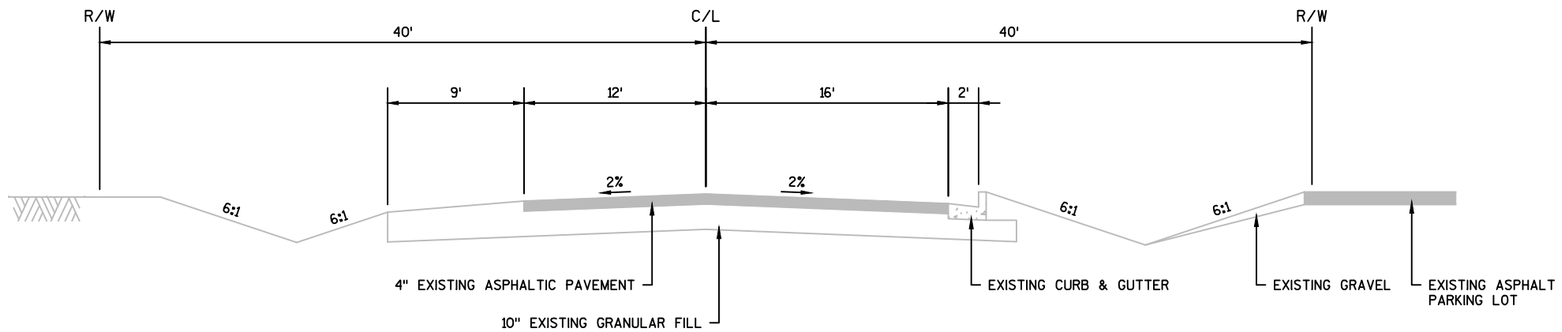
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 5	E



TYPICAL EXISTING SECTION
OAK PARK AVENUE



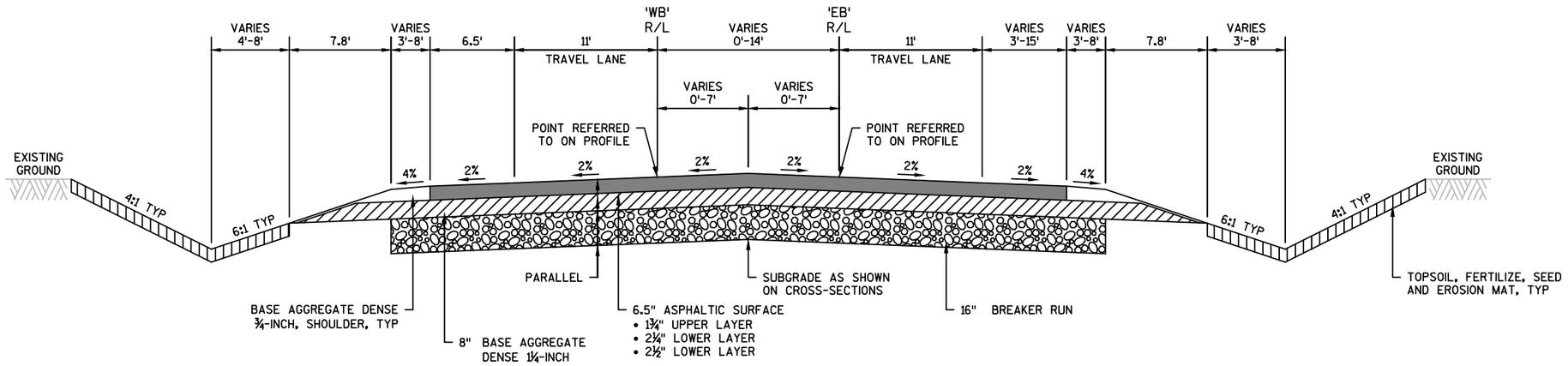
TYPICAL EXISTING SECTION
ROGERSVILLE ROAD



TYPICAL EXISTING SECTION
SULLIVAN DRIVE

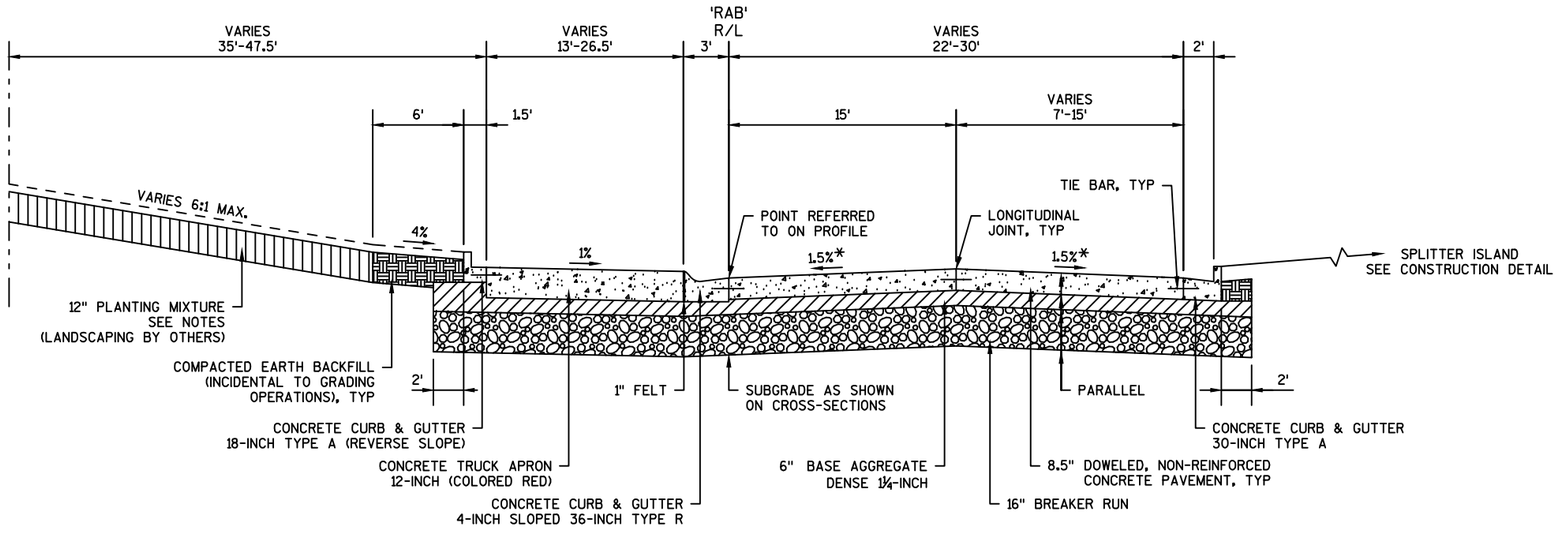
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 6	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-020301-TS.DWG
LAYOUT NAME - 49860022-020301-TS-03
PLOT DATE : 7/29/2016 8:28 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:10
WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION

CTH VV
STA 272'EB'+00 - STA 274'EB'+13



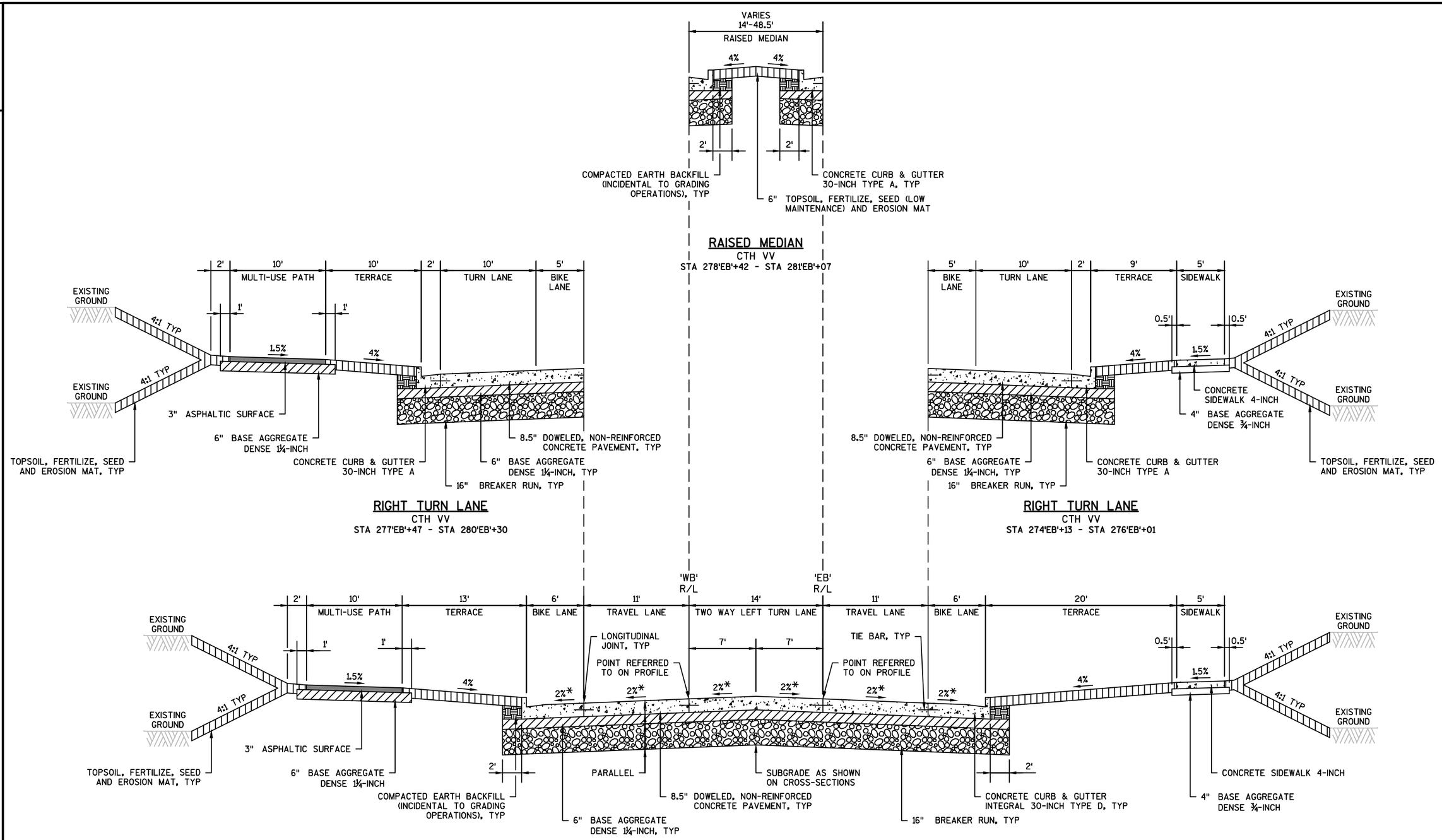
NOTES:
1. PLANTING MIXTURE SHALL BE INSTALLED IN 6-8" LAYERS, TAMPING EACH LAYER TO REMOVE AIR POCKETS AND PREVENT SETTLING. TOP OF PLANTING MIXTURE TO BE 3" BELOW FINISHED GRADE.

* CROSS SLOPE VARIES DUE TO INTERSECTION WARPING (SEE PAVING PLANS FOR FURTHER DETAILS)

TYPICAL FINISHED SECTION

CTH VV/ MILITARY ROAD ROUNDABOUT
STA 10'RAB'+00 - STA 13'RAB'+74

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 7	E



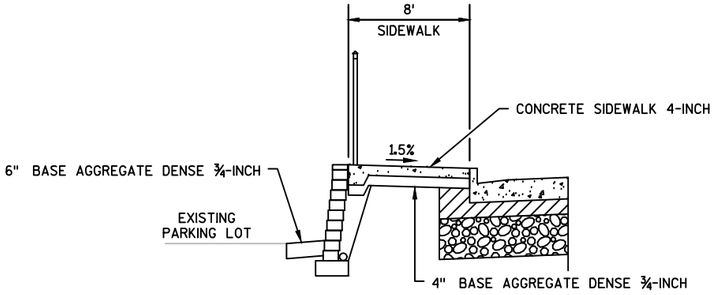
NOTE:
- LIMITS OF THE 8.5" DOWELED, NON-REINFORCED CONCRETE PAVEMENT SHALL EXTEND THROUGH THE BIKE LANE TO THE THEORETICAL FLANGE LINE OF THE INTEGRAL CONCRETE CURB & GUTTER

* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE PAVING PLANS FOR FURTHER DETAILS)

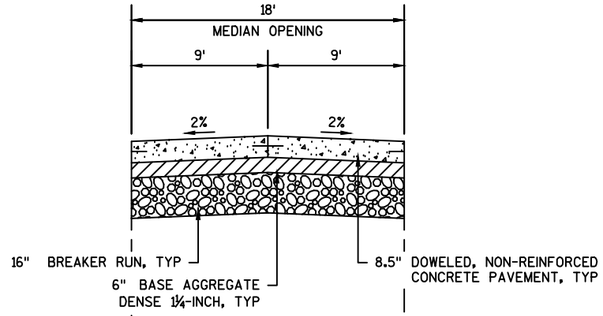
TYPICAL FINISHED SECTION

CTH VV
STA 274'EB'+13 - STA 281'EB'+07

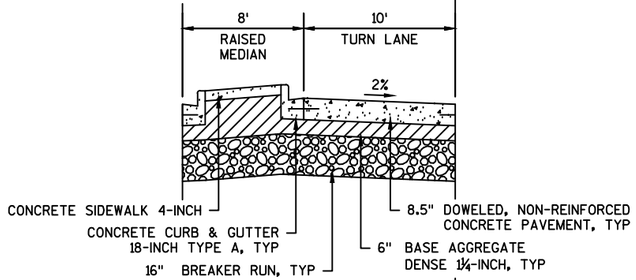
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 8	E



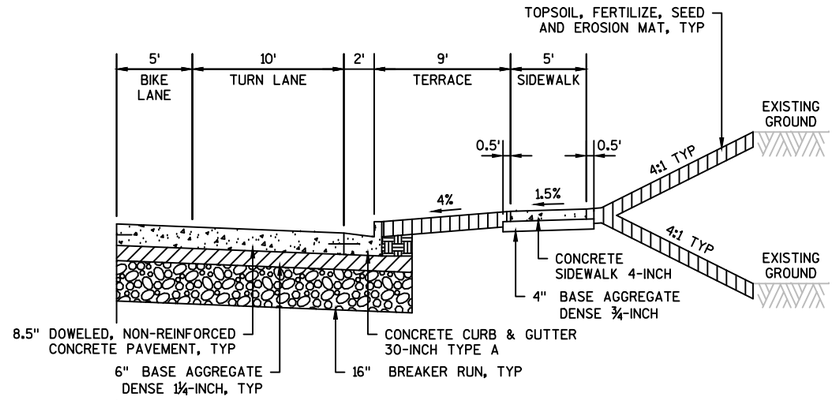
RETAINING WALL
CTH VV
296'WB'+50 - 298'WB'+70
(SEE DETAILS)



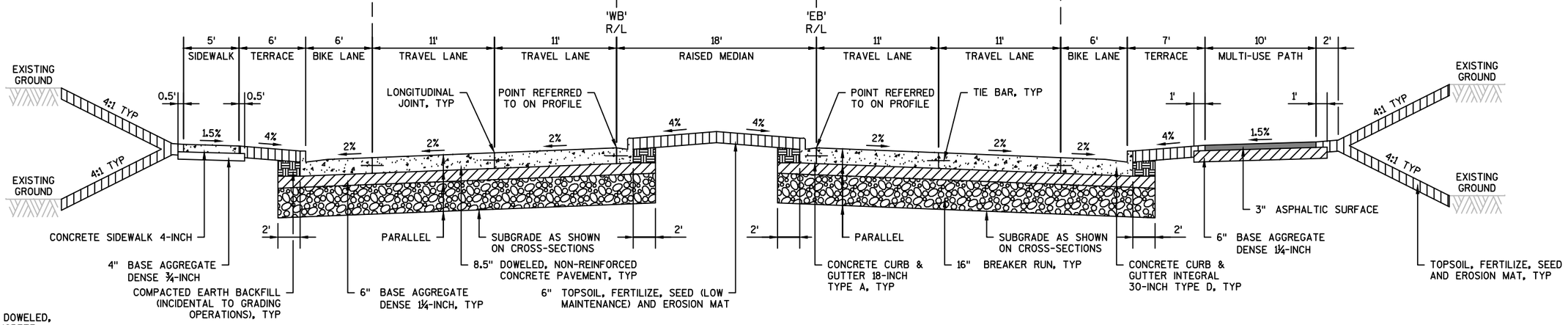
MEDIAN OPENING
CTH VV



LEFT TURN LANE
CTH VV



RIGHT TURN LANE
CTH VV
STA 293'EB'+65 - STA 297'EB'+43
STA 300'EB'+99 - STA 303'EB'+80

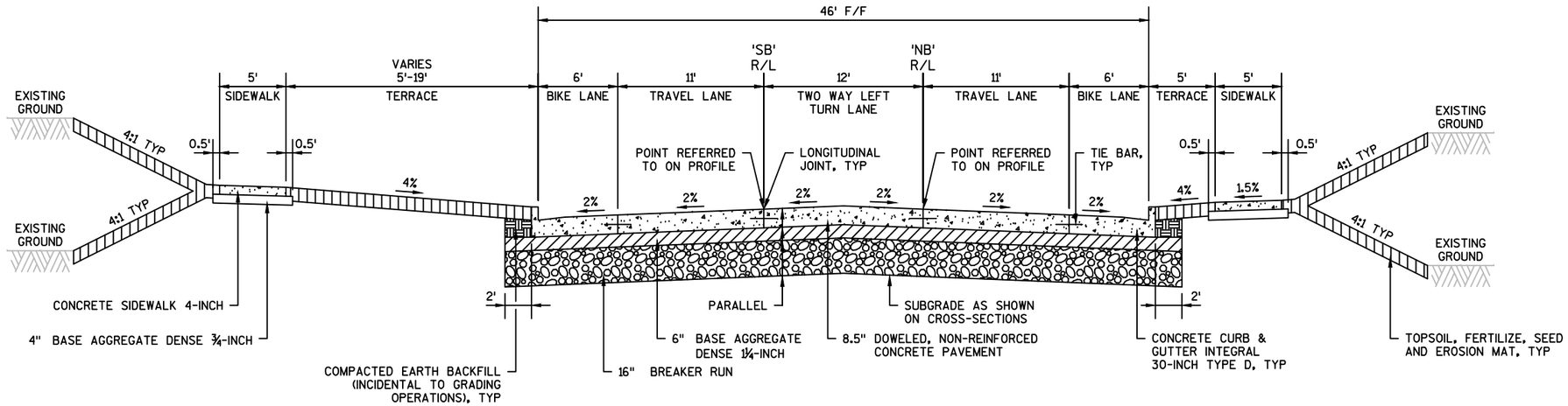


NOTE:
- LIMITS OF THE 8.5" DOWELED, NON-REINFORCED CONCRETE PAVEMENT SHALL EXTEND THROUGH THE BIKE LANE TO THE THEORETICAL FLANGE LINE OF THE INTEGRAL CONCRETE CURB & GUTTER

TYPICAL FINISHED SECTION
CTH VV
STA 283'EB'+23 - STA 311'EB'+07

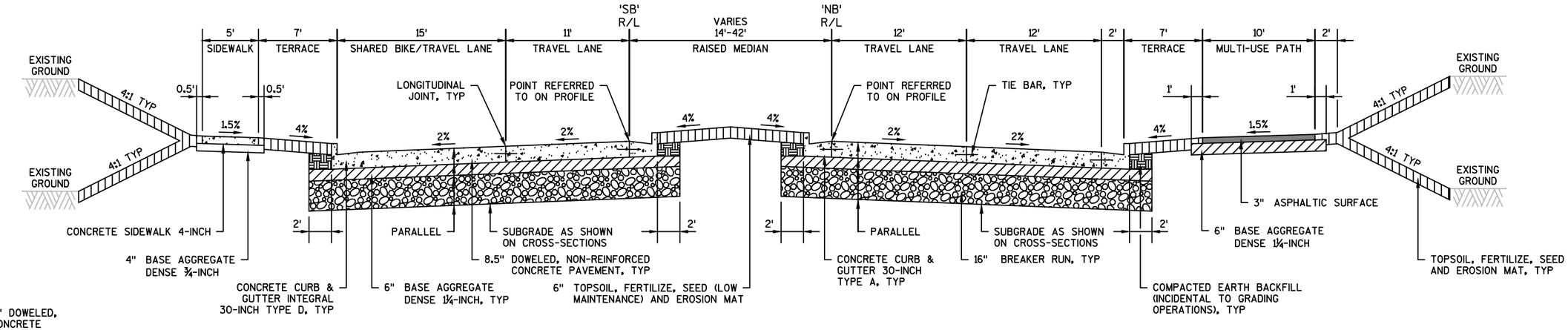
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 9	E

2



TYPICAL FINISHED SECTION

MILITARY ROAD
STA 449'NB'+20 - STA 457'NB'+58

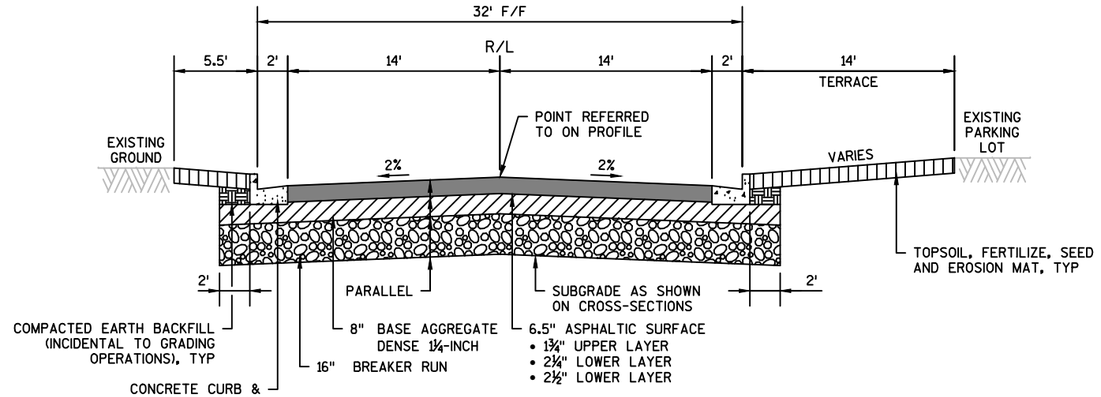


TYPICAL FINISHED SECTION

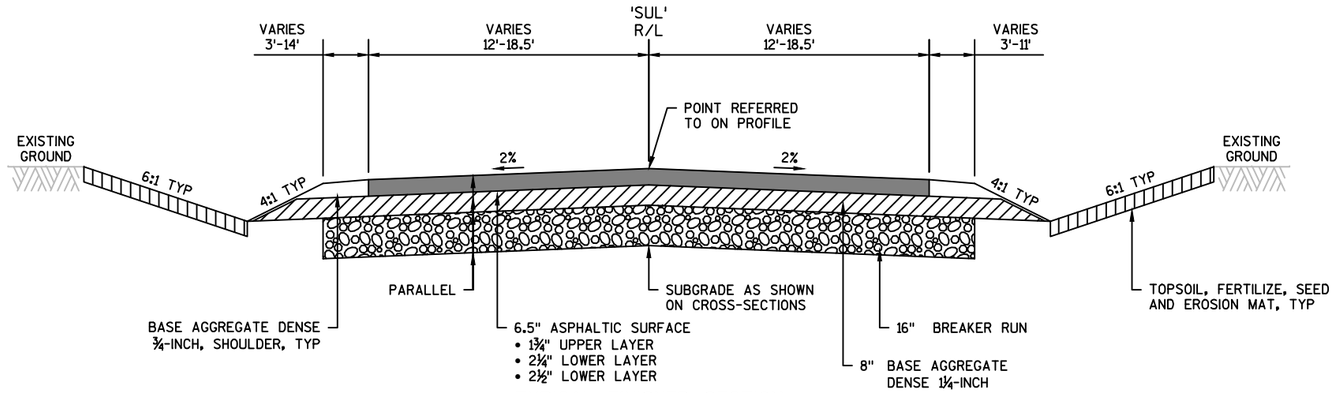
MILITARY ROAD
STA 442'NB'+97 - STA 447'NB'+19

NOTE:
- LIMITS OF THE 8.5" DOWELED, NON-REINFORCED CONCRETE PAVEMENT SHALL EXTEND THROUGH THE BIKE LANE TO THE THEORETICAL FLANGE LINE OF THE INTEGRAL CONCRETE CURB & GUTTER

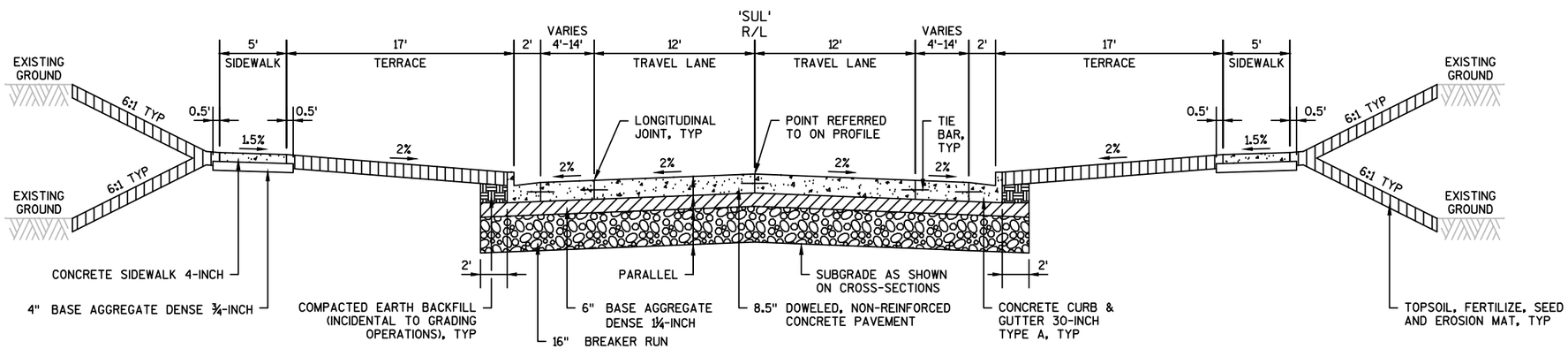
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 10	E



TYPICAL FINISHED SECTION
OAK PARK AVENUE
STA 30'OAK'+53 - STA 30'OAK'+71.5

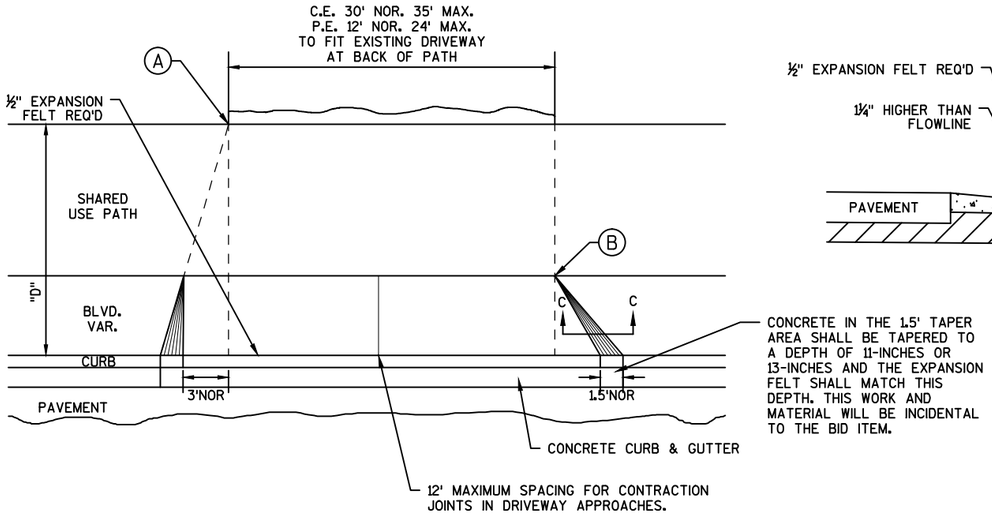


TYPICAL FINISHED SECTION
SULLIVAN DRIVE
STA 524'SIL'+24 - STA 524'SUL'+50



TYPICAL FINISHED SECTION
SULLIVAN DRIVE
STA 520'SUL'+30 - STA 524'SUL'+24

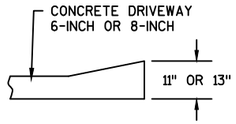
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 11	E



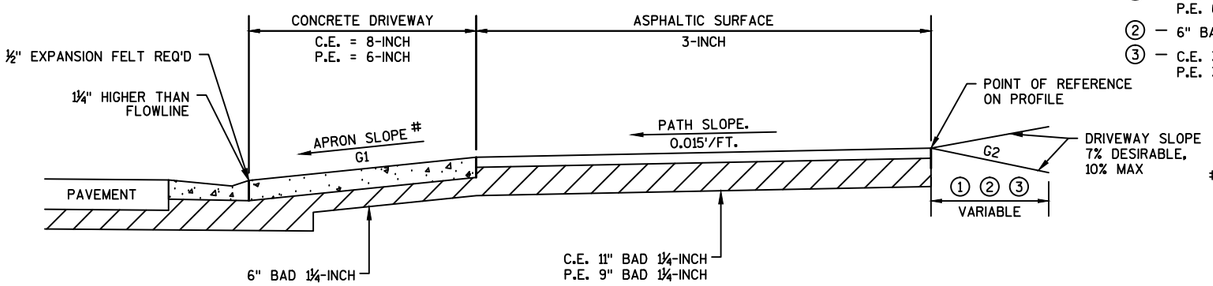
PLAN VIEW

Ⓐ WHEN "D" IS 18' OR LESS, ALIGN TAPER WITH BACK OF PATH

Ⓑ WHEN "D" IS GREATER THAN 18', ALIGN TAPER WITH FRONT OF PATH



SECTION C-C



TYPICAL PATH SECTION

① — C.E. 8" CONC DWY OVER 6" BAD 1¼-INCH
P.E. 6" CONC DWY OVER 6" BAD 1¼-INCH

② — 6" BASE AGG. DENSE ¾-INCH

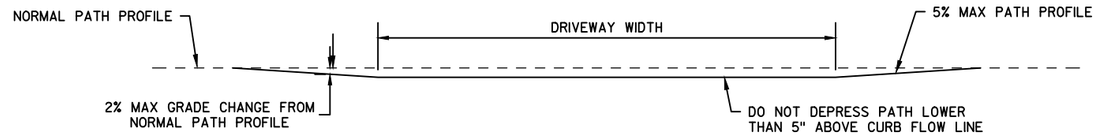
③ — C.E. 3" ASPH SURF DWY & FE OVER 11" BAD 1¼-INCH
P.E. 3" ASPH SURF DWY & FE OVER 9" BAD 1¼-INCH

\#

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

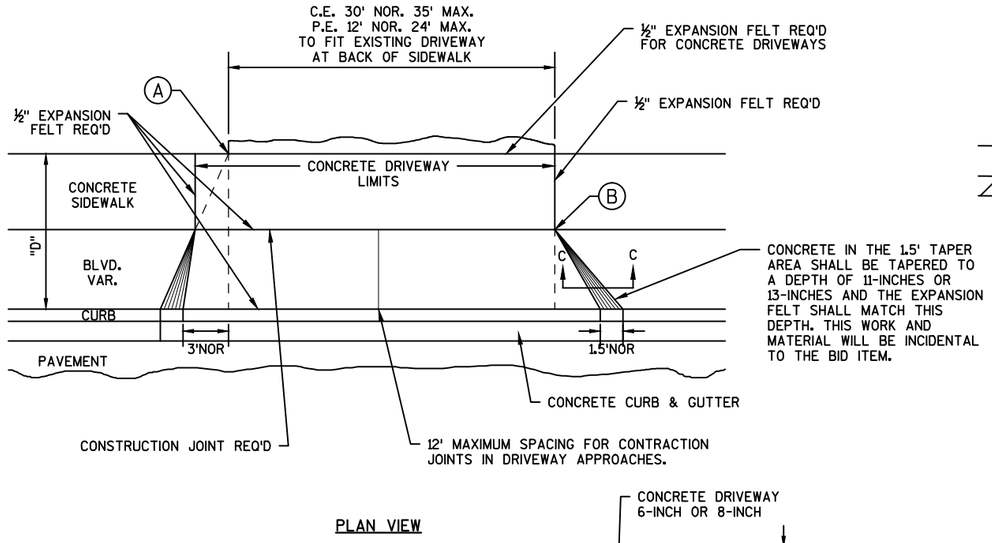
NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

DEPRESS PATH PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE



DEPRESSED PATH PROFILE DETAIL

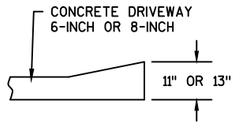
URBAN ENTRANCE DETAIL WITH SHARED USE PATH, CURB & GUTTER



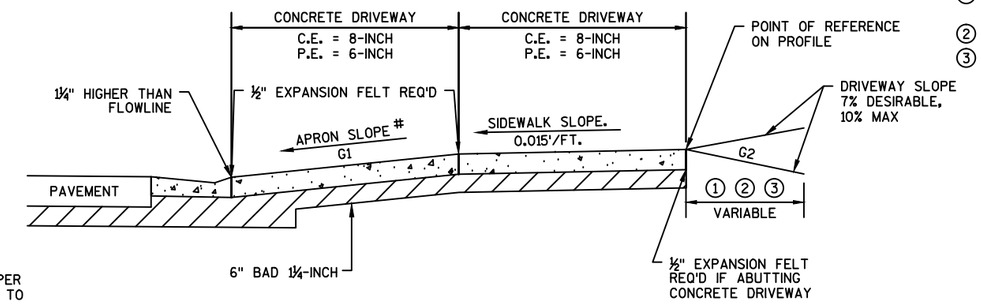
PLAN VIEW

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

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



SECTION C-C



TYPICAL SIDEWALK SECTION

① — C.E. 8" CONC DWY OVER 6" BAD 1¼-INCH
P.E. 6" CONC DWY OVER 6" BAD 1¼-INCH

② — 6" BASE AGG. DENSE ¾-INCH

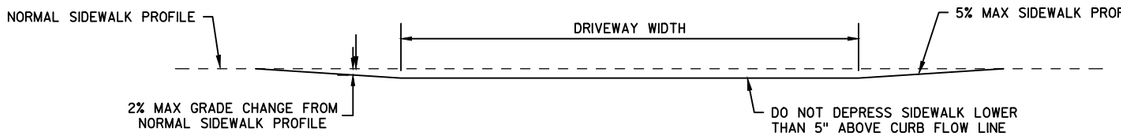
③ — C.E. 3" ASPH SURF DWY & FE OVER 11" BAD 1¼-INCH
P.E. 3" ASPH SURF DWY & FE OVER 9" BAD 1¼-INCH

\#

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

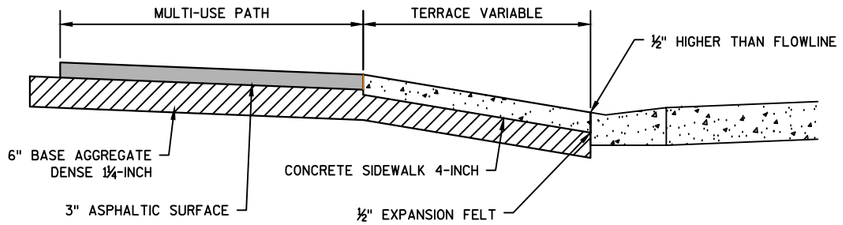


DEPRESSED SIDEWALK PROFILE DETAIL

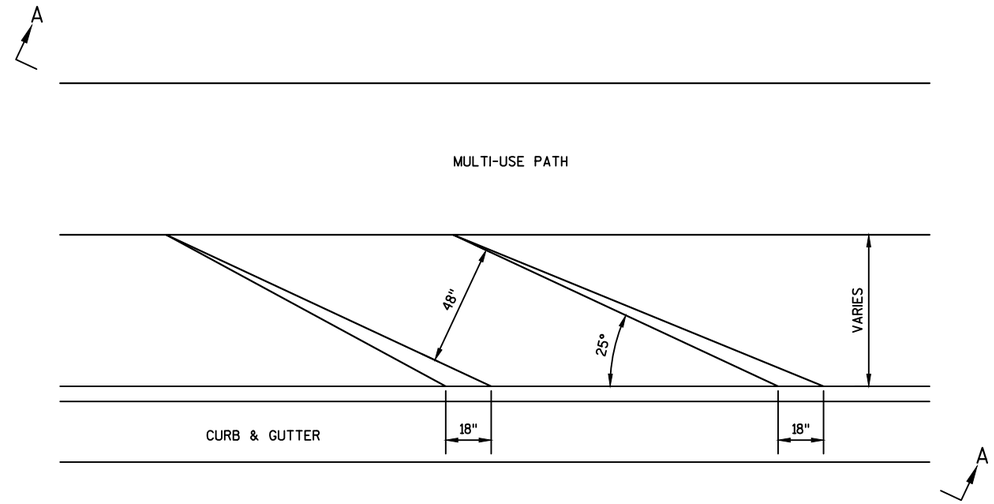
URBAN ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CONSTRUCTION DETAILS	SHEET 12	E

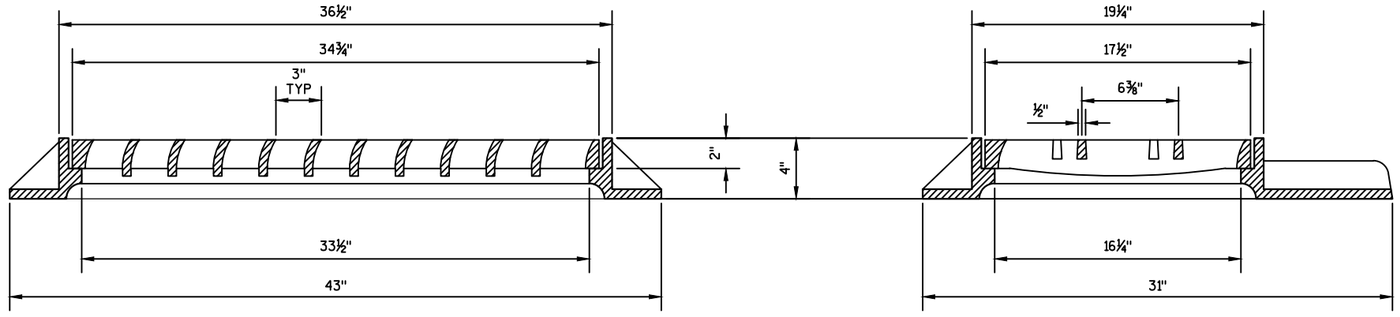
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021001-CD.DWG
LAYOUT NAME - 49860022-021001-CD-01
PLOT DATE : 11/1/2016 4:08 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1:1
WISDOT/CADDS SHEET 42



SECTION A-A

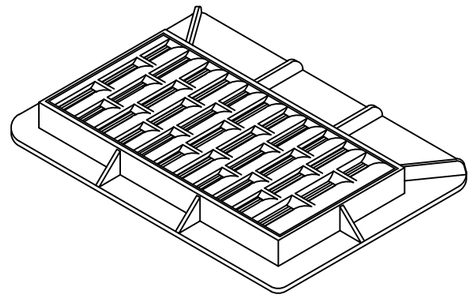


BIKE RAMP DETAIL



FRONT VIEW

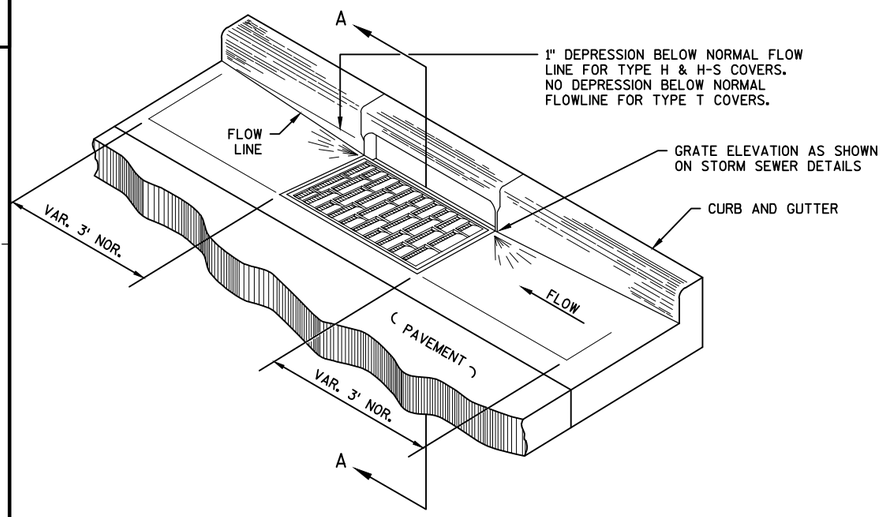
SIDE VIEW

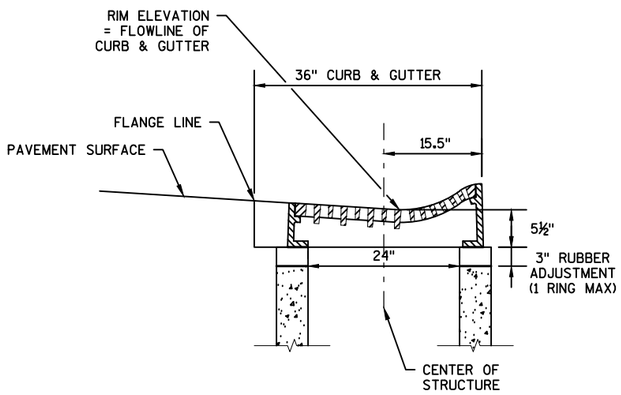


ISOMETRIC VIEW

INLET COVER TYPE HC

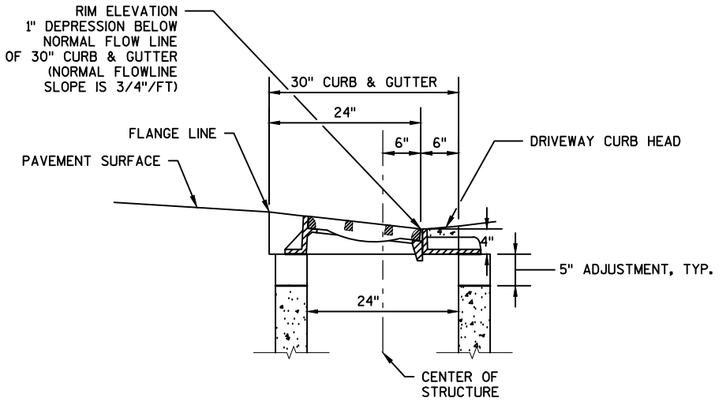
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CONSTRUCTION DETAILS	SHEET 13	E





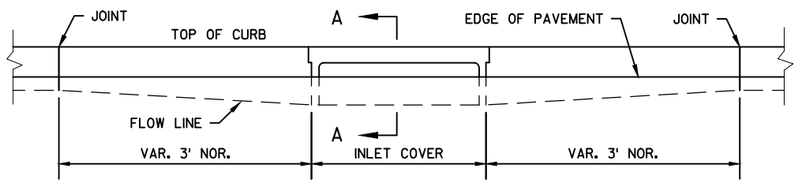
(INLETS 2X2.5-T)

SECTION A-A

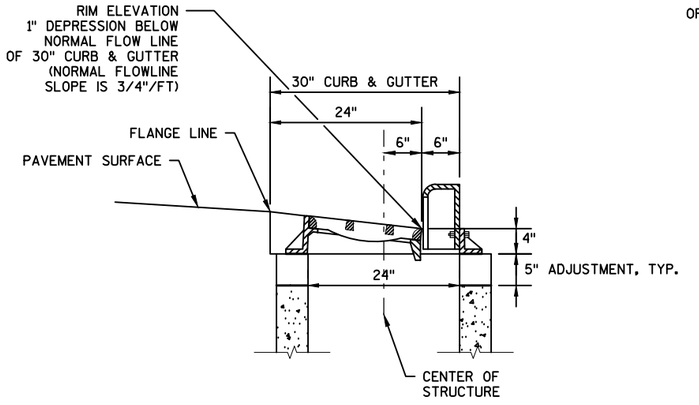


(INLETS 2'X3'-HC)

SECTION A-A

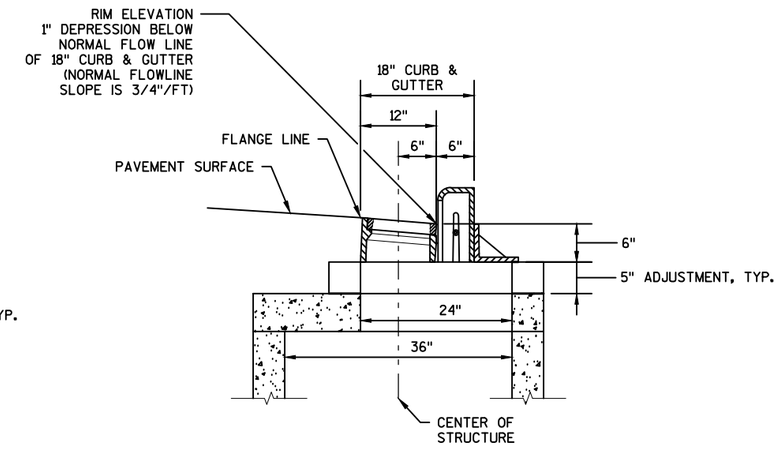


ELEVATION



(INLETS 2X3-H, 2X3-H-S & 2X3-HC)

SECTION A-A



(INLETS 3-Z)

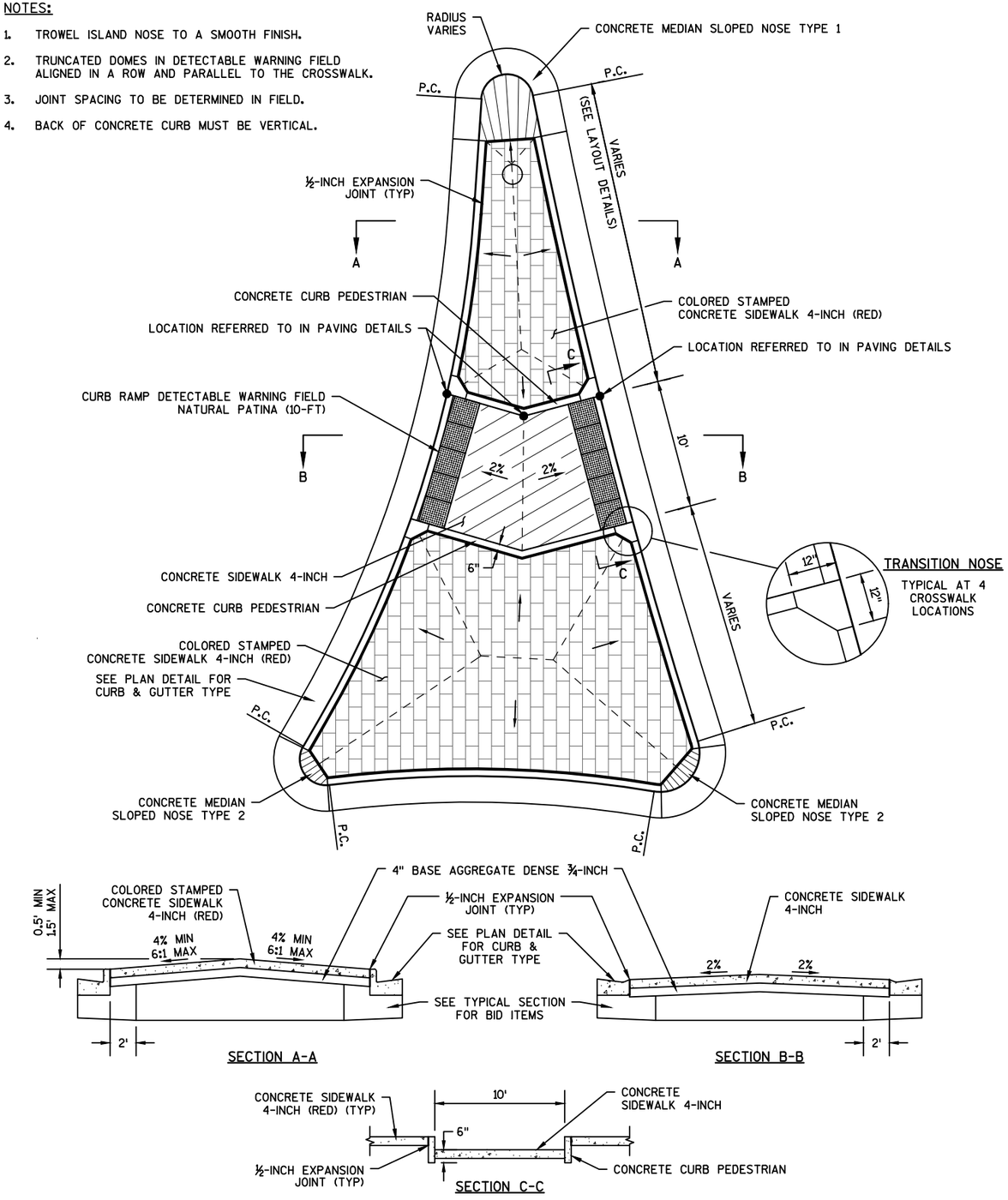
SECTION A-A

CURB AND GUTTER DETAIL AT INLETS

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CONSTRUCTION DETAILS	SHEET 14	E

NOTES:

1. TROWEL ISLAND NOSE TO A SMOOTH FINISH.
2. TRUNCATED DOMES IN DETECTABLE WARNING FIELD ALIGNED IN A ROW AND PARALLEL TO THE CROSSWALK.
3. JOINT SPACING TO BE DETERMINED IN FIELD.
4. BACK OF CONCRETE CURB MUST BE VERTICAL.



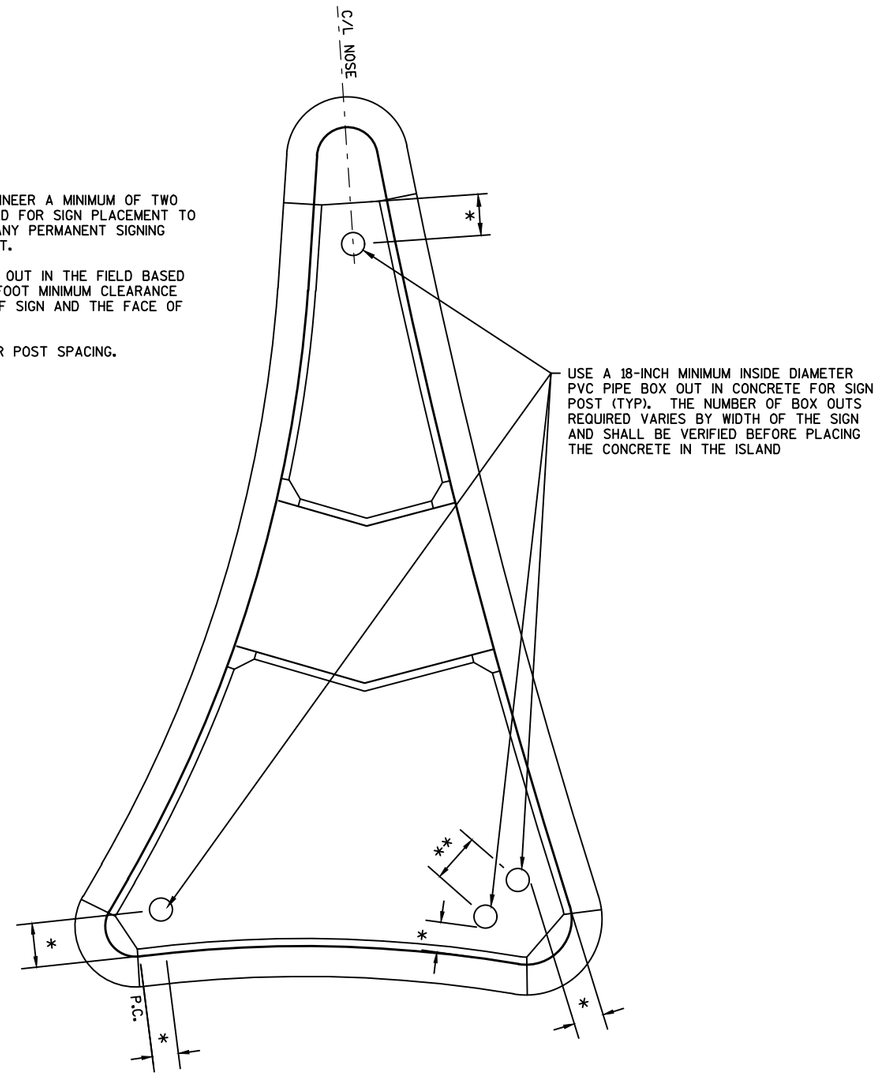
SPLITTER ISLAND DETAIL (TYP)

NOTES:

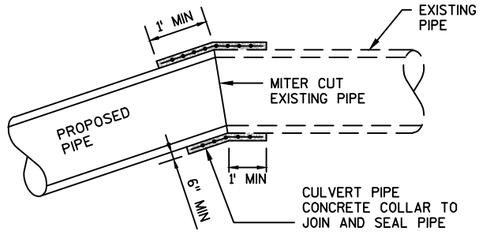
NOTIFY THE PROJECT ENGINEER A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

* 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.

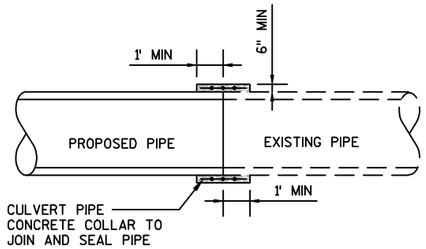
** SEE SIGN DETAILS FOR POST SPACING.



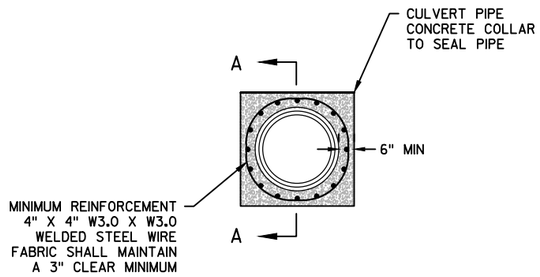
ISLAND SIGN LOCATION DETAIL (TYP)



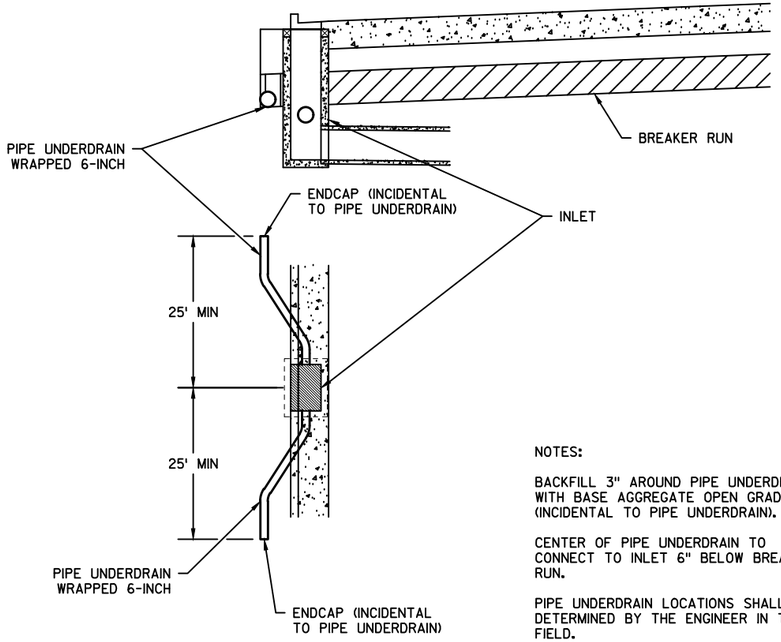
SECTION A-A
MITERED CUT



SECTION A-A
STRAIGHT CUT



CULVERT PIPE CONCRETE COLLAR DETAIL



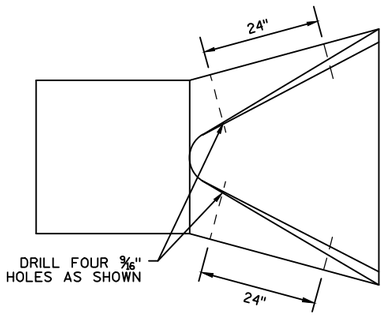
NOTES:

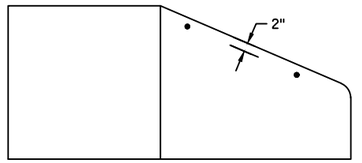
BACKFILL 3" AROUND PIPE UNDERDRAIN WITH BASE AGGREGATE OPEN GRADED (INCIDENTAL TO PIPE UNDERDRAIN).

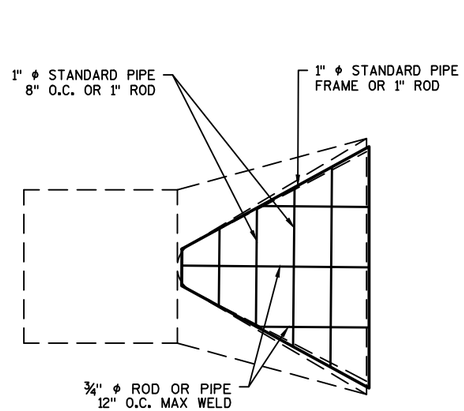
CENTER OF PIPE UNDERDRAIN TO CONNECT TO INLET 6" BELOW BREAKER RUN.

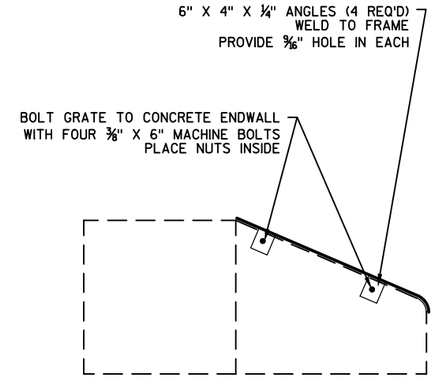
PIPE UNDERDRAIN LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DETAIL FOR PIPE UNDERDRAIN AT CURB & GUTTER INLETS

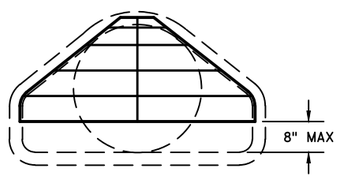






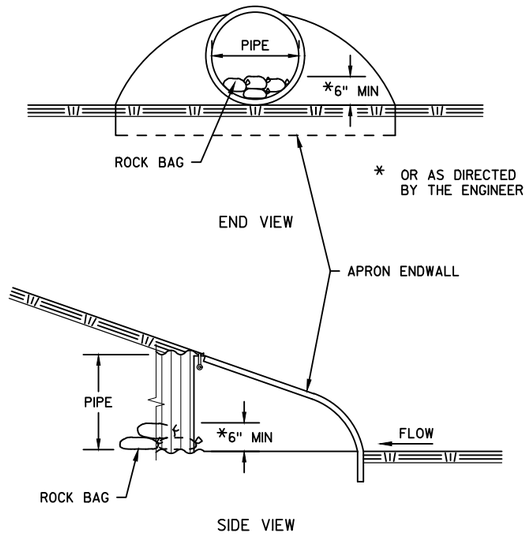


AT EACH PIPE



PIPE GRATE DETAIL

(SEE STORM SEWER SCHEDULE FOR LOCATIONS)

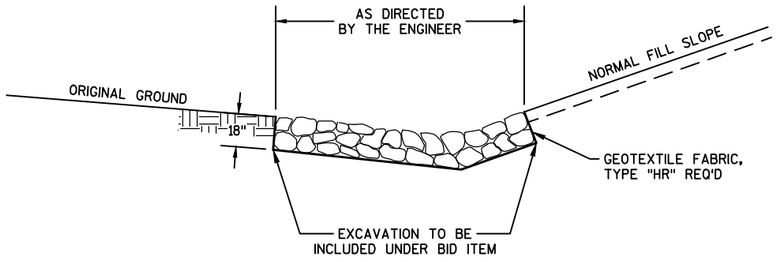


CULVERT PIPE CHECKS DETAIL

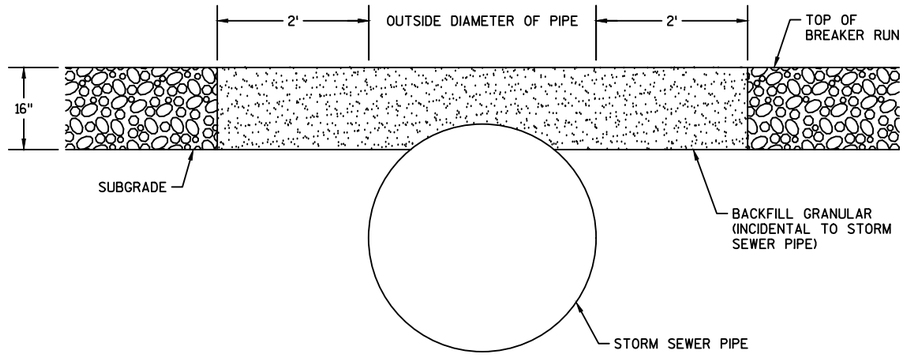
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33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

TOTAL PROJECT AREA = 21.3 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 17.8 ACRES

RUNOFF COEFFICIENT TABLE



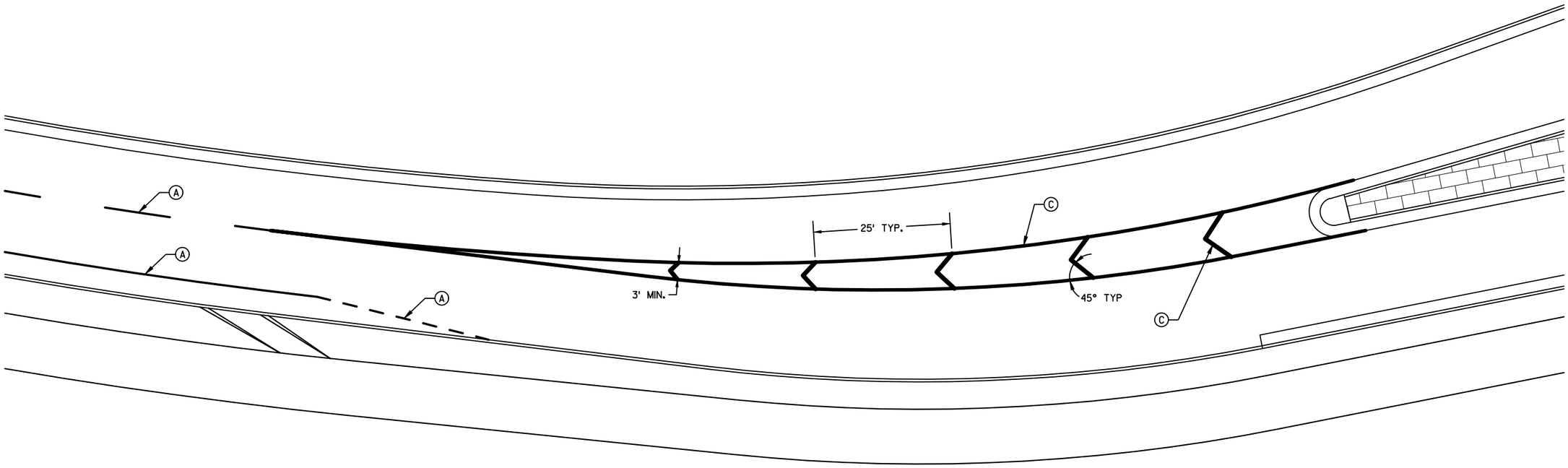
DETAIL FOR RIPRAP MEDIUM IN DITCHES



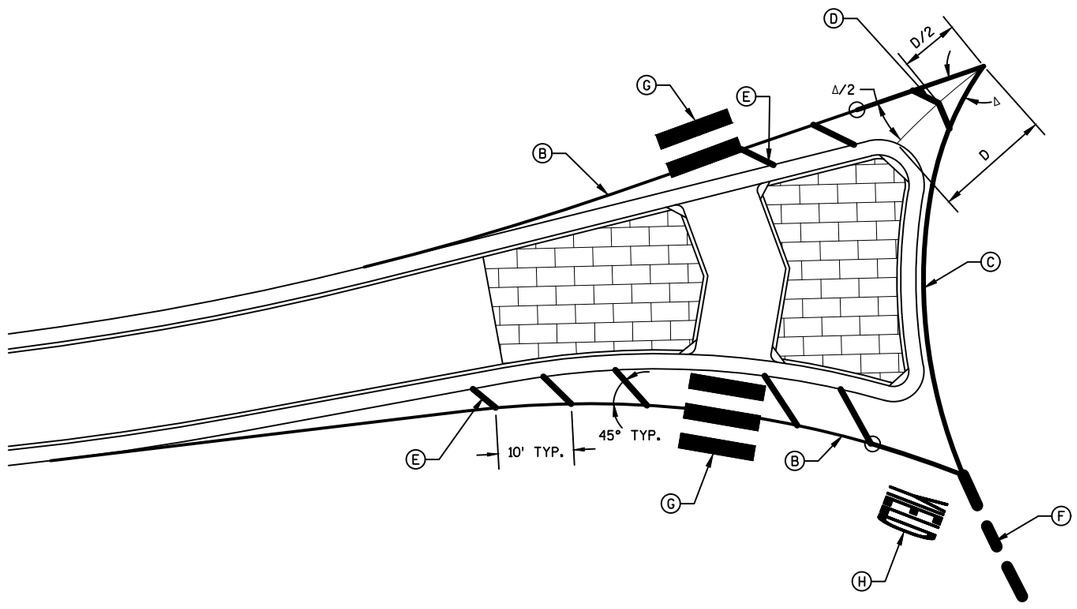
DETAIL FOR BACKFILL GRANULAR OVER SHALLOW PIPE

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021001-CD.DWG
LAYOUT NAME - 49860022-021001-CD-06
PLOT DATE : 7/29/2016 8:28 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:1
WISDOT/CADDS SHEET 42

2



LANE SEPARATION PAVEMENT MARKING DETAILS



SPLITTER ISLAND AT ROUNDABOUT PAVEMENT MARKING DETAILS

- (A) PAVEMENT MARKING 4-INCH (WHITE) (SEE PLANS FOR SEG. AND GAP DETAILS)
- (B) PAVEMENT MARKING 4-INCH (YELLOW)
- (C) PAVEMENT MARKING 8-INCH (WHITE)
- (D) PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
- (E) PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
- (F) PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG. 2' GAP)
- (G) PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
- (H) PAVEMENT MARKING WORDS (WHITE) ("YIELD")

○ CHANGE IN LINE WIDTH AND COLOR AT P.C. OF SPLITTER ISLAND

299'WB' 298'WB' 297'WB' 296'WB'

PIPE UNDERDRAIN WRAPPED (6-INCH) @ 0.5% SLOPE MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

36 SPA. AT 6'-0" = 216'-0" POST SPACING

11'
11'
36.5'
6'
0.5
8'
2'
2'

END WALL
WALL STA. 2+20.00
STA 298'WB'+70.00
36.50' LT OF C/L

BEGIN WALL
WALL STA. 0+00.00
STA 296'WB'+50.00
36.50' LT OF C/L

788 786 784 782 780 779

VPI STA 2+20.00
VPI EL 785.09

TOP OF WALL (INCLUDES CAP) @ BACK FACE

VPI STA 0+52.50
VPI EL 785.09

VPI STA 0+52.50
VPI EL 784.42

VPI STA 0+00.00
VPI EL 784.42

FINISHED GRADE @ SIDEWALK
SEE CROSS SECTIONS FOR ELEVATIONS

EXISTING GROUND
@ BOTTOM OF WALL

VPI STA 0+52.50
VPI EL 780.76

VPI STA 2+20.00
VPI EL 780.76

BOTTOM OF WALL
1'-6" MIN. BELOW FINISHED GRADE

VPI STA 0+52.50
VPI EL 780.09

VPI STA 0+00.00
VPI EL 780.09

2 1 0

PROJECT NO:4986-00-22	HWY:CTH VV	COUNTY:FOND DU LAC	CONSTRUCTION DETAILS - RETAINING WALL	SHEET 19	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021003-CD.DWG
LAYOUT NAME - 49860022-021003-CD-01
PLOT DATE : 7/29/2016 3:24 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:20 FT

RETAINING WALL NOTES

1) OFFSET DISTANCE IS TO TOP BACK OF WALL.

2) CONTRACTOR/SUPPLIER/MANUFACTURER IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE RETAINING WALL SYSTEM.

3) SEE PLAN SHEETS, CROSS SECTIONS AND DETAILS FOR ADDITIONAL WALL LAYOUT INFORMATION.

4) RETAINING WALL BLOCK COLOR & TEXTURE SHALL BE APPROVED BY THE COUNTY PRIOR TO ORDERING. COLOR SHALL BE TAN AND STYLE SHALL BE CONSISTENT WITH ADJACENT PREVIOUSLY BUILT PROJECT LOCATED AT THE NORTHEAST QUADRANT OF PIONEER ROAD AND HICKORY STREET.

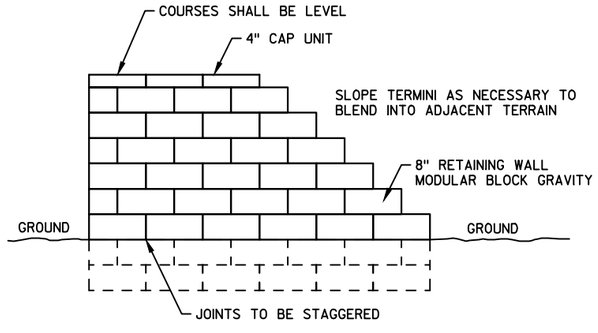
5) SETBACK/BATTER VARIES PER MANUFACTURER.

6) SLOPE WALL TERMINI AS NECESSARY TO BLEND INTO ADJACENT TERRAIN.

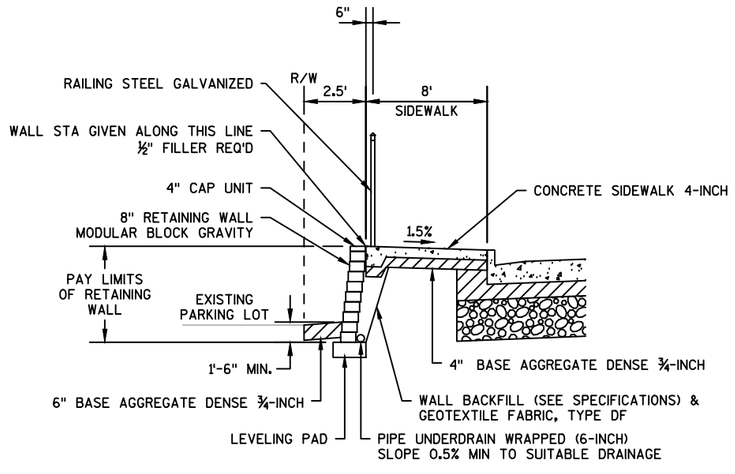
7) RETAINING WALL SHALL BE DESIGNED WITH THE FOLLOWING FACTORS OF SAFETY:
   - OVERTURNING > 2.0
   - SLIDING > 1.5
   - GLOBAL STABILITY > 1.3
   - BEARING CAPACITY > 2.5

8) THE GENERAL SOILS IN THE AREA ARE LEAN TO FAT CLAY.

9) ALLOWABLE BEARING CAPACITY = 2000 psf.



TYPICAL WALL SECTION

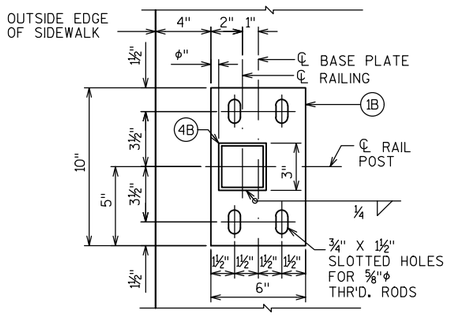


TYPICAL WALL ELEVATION

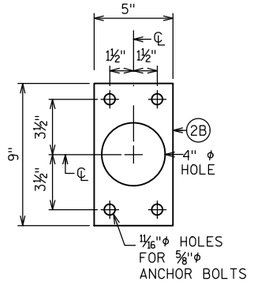
RETAINING WALL MODULAR BLOCK GRAVITY DETAIL

STA 296'WB'+50 TO STA 298'WB'+70; 36.5' LT

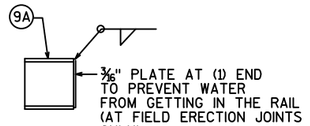
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CONSTRUCTION DETAILS - RETAINING WALL	SHEET 20	E



TYPICAL RAIL POST BASE PLATE



ANCHOR PLATE



CLOSURE PLUG DETAIL

LEGEND

(1b) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES

(2B) ¼" X 5" X 9" ANCHOR PLATE WITH 1⅛" ϕ HOLES FOR ANCHOR BOLTS NO. 3.

(3) ⅝" DIA. X 7½" LONG, ASTM F593 TYPE 316 STAINLESS STEEL ANCHOR BOLTS WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE: 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS TYPE S (EPOXY) ⅝-inch. MINIMUM PULLOUT CAPACITY OF 15 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS AND 5" FOR END RAILS.

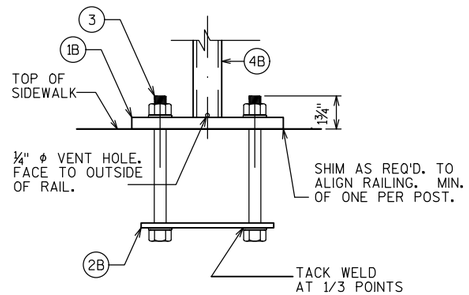
(4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL. SPACE AT 6" MAX. C/L TO C/L SPACING.

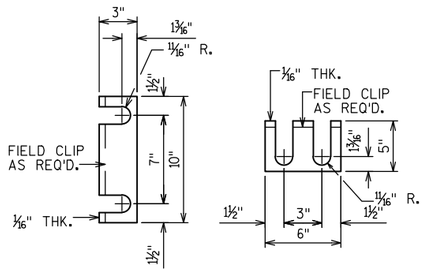
(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" ℄ FIELD ERECTION JTS.)



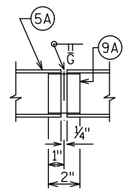
ANCHOR BOLTS FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS USED.



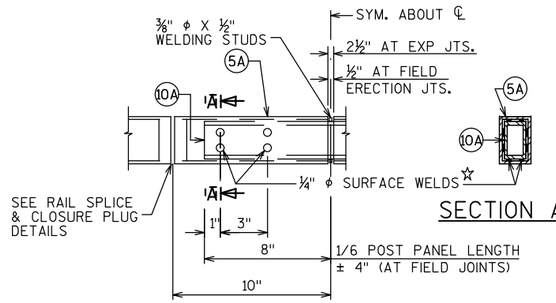
RAIL POST SHIM DETAIL

(2 SETS PER POST)



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A-A

FIELD ERECTION JOINT DETAIL

☆MIN. ⅜" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

RAILING NOTES

BID ITEM FOR RETAINING WALL RAILING SHALL INCLUDE ALL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 2, 9 AND 10 SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B (NO. 4, 5 AND 6).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

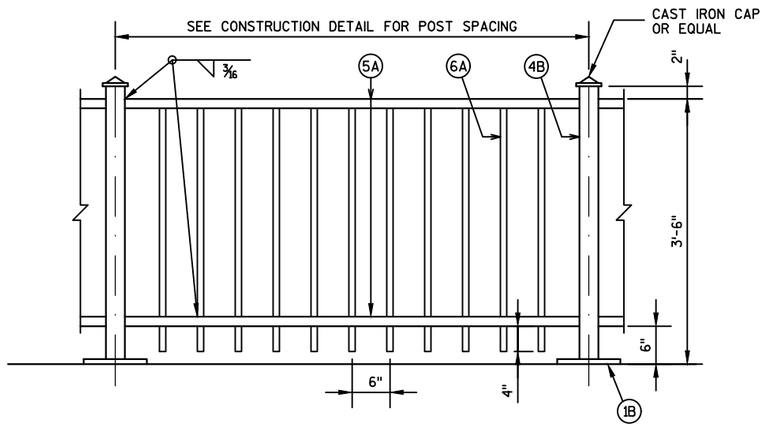
FILL BOLT SLOT OPENINGS IN SHIMS AND PLATE NO. 1 AND CAULK AROUND PERIMETER OF PLATE NO. 1 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

AFTER FABRICATION, ALL MATERIAL, EXCEPT ANCHORAGES NO. 2 AND NO. 3 AND SHIMS SHALL BE GALVANIZED. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE SPECIAL PROVISIONS. THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 27038.

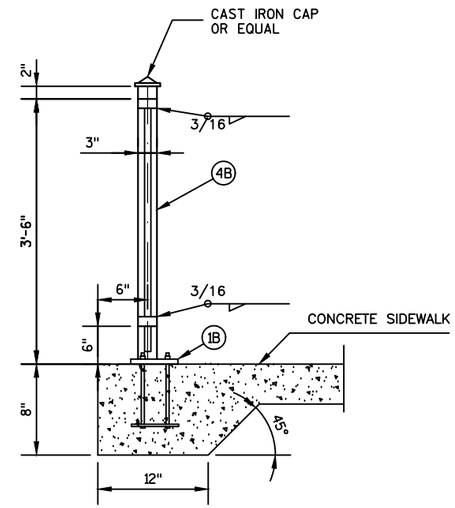
¼" ϕ VENT HOLES LOCATED AT LOW END OF RAILS.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



RAILING ELEVATION



SECTION THRU RAILING

NOTES:

1) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT."

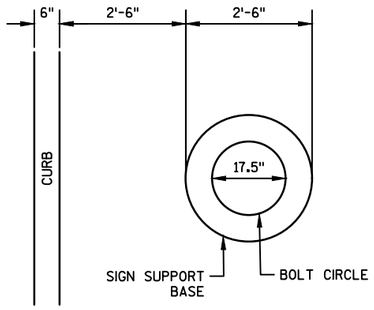
2) DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF, AND SUPPLEMENTAL STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS."

3) SIZE THE ANCHOR BOLT/ TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

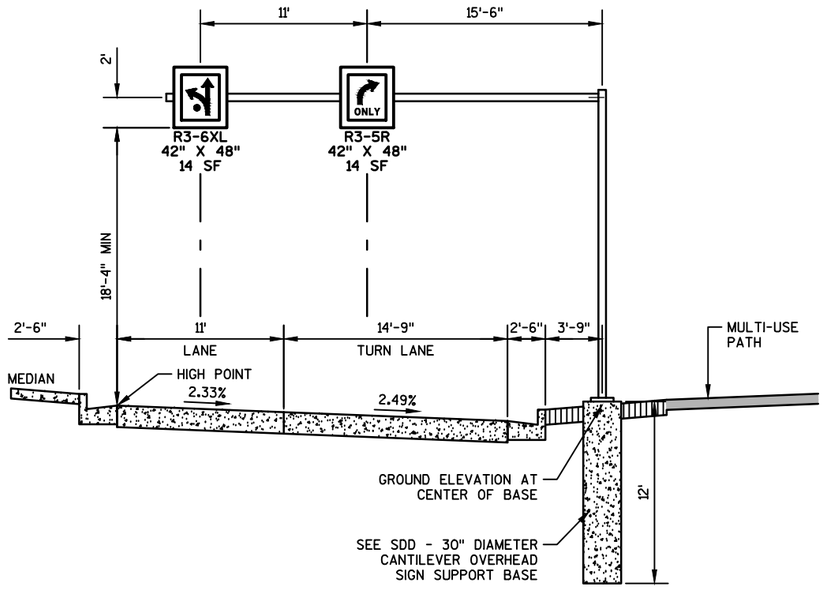
4) SIGNS OR BLANKS SHALL BE INSTALLED ON THE OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION. BLANKS, IF USED, SHALL BE OF THE SAME SIZE AND LOCATIONS AS PERMANENT SIGNS.

5) DESIGN THE STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE A MINIMUM OF SIX (6) ANCHOR BOLTS.

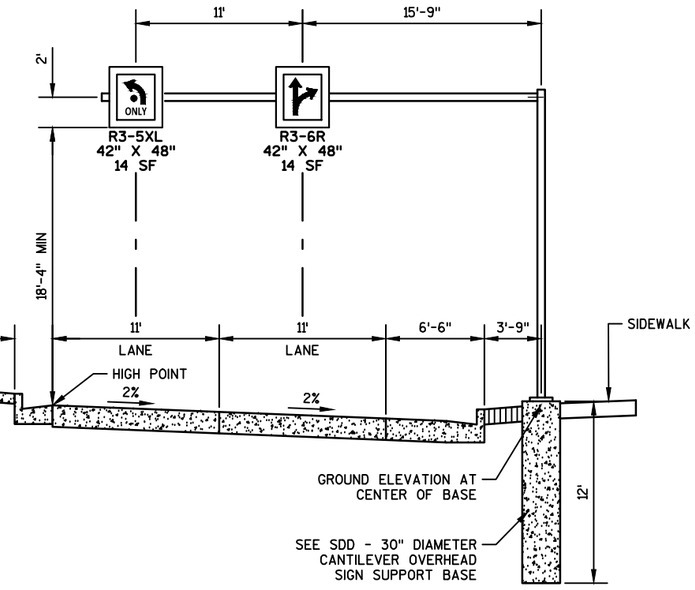
STRUCTURE NUMBER	STATION	HIGH POINT ELEVATION	GROUND ELEVATION
S-20-0056	279'EB'+26.32	782.22	782.07
S-20-0057	286'WB'+25.00	783.12	783.18
S-20-0058	443'NB'+07.00	789.52	789.64
S-20-0059	450'SB'+16.56	781.47	781.67



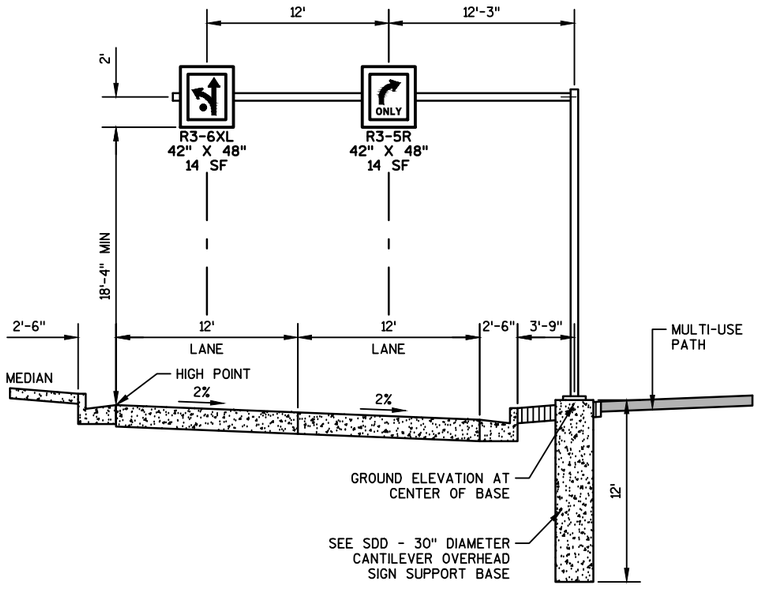
SUPPORT BASE



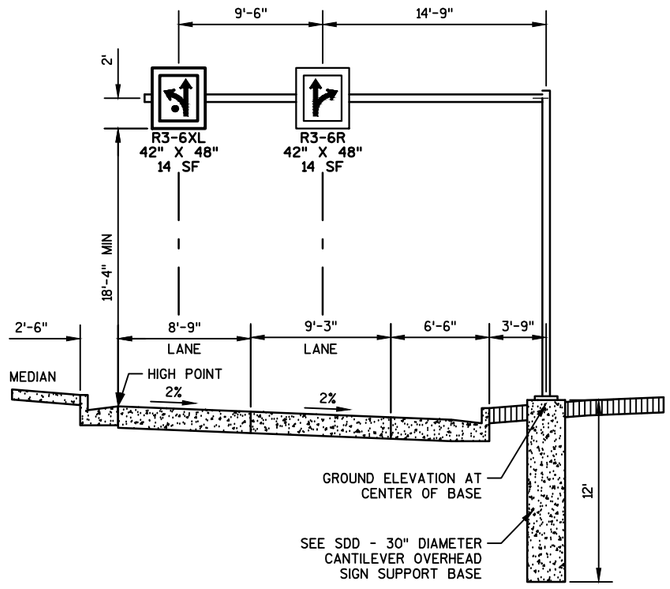
S-20-0056
STATION 279'EB'+26.32



S-20-0057
STATION 286'WB'+25.00



S-20-0058
STATION 443'NB'+07.00



S-20-0059
STATION 450'SB'+16.56

OVERHEAD SIGN SUPPORT DETAILS

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CONSTRUCTION DETAILS	SHEET 22	E

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

N

FOND DU LAC
AUTO MACHINE & PARTS

VALLEY TRUCK LEASING

ASPHALT
C.E.

15"CMP

269'WB'
269'EB'
270'WB'
270'EB'
271'WB'
271'EB'
272'WB'
272'EB'

CTH VV
PIONEER ROAD

15"X24" CMHE

ASPHALT
C.E.

FASTENAL
COMPANY

ASPHALT
C.E.

R&J TRANSPORT

MATCH LINE STA 273'EB+00

2

PROJECT NO:4986-00-22	HWY:CTH VV	COUNTY:FOND DU LAC	REMOVAL PLAN: CTH VV	SHEET 23	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021101-RM.DWG
LAYOUT NAME - 49860022-021101-RM-01-CTH VV

PLOT DATE : 7/29/2016 8:30 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

VALLEY TRUCK LEASING

AIRGAS

N

REMOVE CULVERT PIPE

REMOVE CULVERT PIPE

ROGERSVILLE ROAD

CTH VV
PIONEER ROAD

60'PR'

59'PR'

REMOVE DRIVEWAY

SS REMOVAL LIMITS

ANR PIPELINE COMPANY

WIS POWER & LIGHT CO

FLEET FARM CAR WASH

MATCH LINE

STA 273'EB'+00

STA 279'EB'+00

273'WB'

273'EB'

274'WB'

274'EB'

275'WB'

275'EB'

276'WB'

276'EB'

277'WB'

277'EB'

278'WB'

278'EB'

279'WB'

279'EB'

520'SUL'

521'SUL'

522'SUL'

HEIGHT TO BOTTOM OF SIGN=16.45'

18"CMP

18"RCP

18"HDPE

12"PVC

GRAVEL C.E.

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: CTH VV	SHEET 24	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021101-RM.DWG
LAYOUT NAME - 49860022-021101-RM-02-CTH VV

PLOT DATE : 7/29/2016 8:30 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

FLEET FARM
GAS STATION

MANOWSKE WELDING

HARMONY
HOLDINGS INC

MERCURY MARINE

MILITARY ROAD

450'SB'

450'NB'

447'SB'

447'NB'

CTH VV
PIONEER ROAD

MATCH LINE STA 279'EB'+00

MATCH LINE STA 285'EB'+00

280'WB'

281'WB'

280'EB'

281'EB'

284'WB'

284'EB'

SS REMOVAL LIMITS

REMOVE CONCRETE BASE

REMOVE CULVERT PIPE

ABANDON WATER MAIN STRUCTURE

REMOVE POSTS

12'RAB'

13'RAB'

10'RAB'

ASPHALT C.E.

XXXX

SS

SAN

FO

W

G

E

MH

PP

INL 4"PVC

12"PVC

18"CMP

42"RCP

18"RCP

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: CTH VV	SHEET 25	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021101-RM.DWG
LAYOUT NAME - 49860022-021101-RM-03-CTH VV
PLOT DATE : 7/29/2016 8:30 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

MARINE CREDIT UNION

MERCURY MARINE

REMOVE CULVERT PIPE

SS REMOVAL LIMITS

ASPHALT C.E.

ASPHALT P.E.

18"CMP

CTH VV
PIONEER ROAD

STA 285'EB'+00

MATCH LINE

286'WB' 287'WB' 288'WB' 289'WB' 290'WB' 291'WB'

286'EB' 287'EB' 288'EB' 289'EB' 290'EB' 291'EB'

42"RCP

30"RCP

36"RCP

HDPE

SS REMOVAL LIMITS

SS REMOVAL LIMITS

MERCURY MARINE

2

PROJECT NO:4986-00-22	HWY:CTH VV	COUNTY:FOND DU LAC	REMOVAL PLAN: CTH VV	SHEET 26	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021101-RM.DWG
LAYOUT NAME - 49860022-021101-RM-04-CTH VV

PLOT DATE : 7/29/2016 8:30 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

MERCURY MARINE

STA AHEAD = 291'WB'+94.23
STA BACK = 291'WB'+95.69

SS REMOVAL LIMITS

FENCE TO BE REMOVED BY OTHERS

GAS VALVE

CTH VV
PIONEER ROAD

STA 291'EB'+00 — STA 297'EB'+00

291'WB' 292'WB' 293'WB' 294'WB' 295'WB' 296'WB' 297

291'EB' 292'EB' 293'EB' 294'EB' 295'EB' 296'EB' 297

MATCH LINE

REMOVE CONCRETE SURFACE DRAIN

SS REMOVAL LIMITS

REMOVE CONCRETE BASE

SS REMOVAL LIMITS

SS REMOVAL LIMITS

ASPHALT C.E.

MERCURY MARINE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: CTH VV	SHEET 27	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021101-RM.DWG
LAYOUT NAME - 49860022-021101-RM-05-CTH VV
PLOT DATE : 8/1/2016 9:20 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

MERCURY MARINE

FENCE TO BE REMOVED BY OTHERS

SS REMOVAL LIMITS

SIGN TO BE REMOVED BY OTHERS. REMOVE CONCRETE BASE

CTH VV
PIONEER ROAD

STA 297'EB'+00 | 298'WB' | 298'EB' | 299'WB' | 299'EB' | 300'WB' | 300'EB' | 301'WB' | 301'EB' | 302'WB' | 302'EB' | 303 | STA 303'EB'+00

MATCH LINE

MERCURY MARINE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: CTH VV	SHEET 28	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021101-RM.DWG
LAYOUT NAME - 49860022-021101-RM-06-CTH VV

PLOT DATE : 9/1/2016 2:03 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PIONEER & HICKORY LLC

MERCURY MARINE

MERCURY MARINE ENTRANCE

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

SIGN TO BE REMOVED BY OTHERS. REMOVE CONCRETE BASE

STRIPING (TYP.)

ASPHALT C.E.

STA 303'EB'+00

303'WB' 304'WB' 305'WB' 306'WB' 307'WB' 308'WB' 309

303'EB' 304'EB' 305'EB' 306'EB' 307'EB' 308'EB' 309

STA 309'EB'+00

CTH VV
PIONEER ROAD

MATCH LINE

MATCH LINE

SS REMOVAL LIMITS

REMOVE CONCRETE BASE

SS REMOVAL LIMITS

REMOVE CONCRETE BASE

SS REMOVAL LIMITS

MERCURY MARINE ENTRANCE

MERCURY MARINE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: CTH VV	SHEET 29	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021101-RM.DWG
LAYOUT NAME - 49860022-021101-RM-07-CTH VV

PLOT DATE : 7/29/2016 8:30 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PIONEER & HICKORY LLC

FOX VALLEY & WESTERN LTD

PIONEER & HICKORY LLC

N

REMOVE CULVERT PIPE

REMOVE DRIVEWAY

GRAVEL F.E.

MATCH LINE STA 309'EB'+00

309'WB'

309'EB'

310'WB'

310'EB'

311'WB'

311'EB'

312'WB'

312'EB'

313'WB'

314'WB'

CTH VV
PIONEER ROAD

CPRCHE

34"X53"

WILD GOOSE STATE TRAIL

MERCURY MARINE

STATE OF WISCONSIN
DEPARTMENT OF
NATURAL RESOURCES

AGNESIAN
HEALTH CARE

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: CTH VV	SHEET 30	E

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

MICROTEL INN & SUITES

JAMES G GRAFFT

DJC RENTALS LLC

MILITARY ROAD

438'NB' 439'NB' 440'NB' 441'NB' 442'NB' 443'NB' 444

440'SB' 441'SB' 442'SB' 443'SB' 444

STA 444'SB'+00

MATCH LINE

REMOVE CONCRETE CURB & GUTTER FOR TEMPORARY CROSSOVER.
CROSSOVER TO BE REMOVED AT COMPLETION OF PROJECT.

MERCURY MARINE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: MILITARY ROAD	SHEET 31	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021102-RM.DWG
LAYOUT NAME - 49860022-021102-RM-01-MILITARY

PLOT DATE : 7/29/2016 8:31 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

N

HARMONY HOLDINGS INC

CTH VV PIONEER ROAD 28'WB'

28'EB'

SS REMOVAL LIMITS

REMOVE CULVERT PIPE

REMOVE CULVERT PIPE

MATCH LINE STA 444'SB'+00

MATCH LINE STA 450'SB'+00

445'SB'

446'SB'

447'SB'

445'NB'

446'NB'

447'NB'

MILITARY ROAD

MILITARY ROAD

12'RAB'

11'RAB'

13'RAB'

10'RAB'

REMOVE POSTS

REMOVE CULVERT PIPE

ABANDON WATER MAIN STRUCTURE

CTH VV PIONEER ROAD

28'EB'

28'WB'

MERCURY MARINE

MANOWSKE WELDING

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: MILITARY ROAD	SHEET 32	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021102-RM.DWG
LAYOUT NAME - 49860022-021102-RM-02-MILITARY

PLOT DATE : 7/29/2016 8:31 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

FLEET FARM
GAS STATION

ROGERSVILLE ROAD

FLEET FARM

REMOVE DRIVEWAY

REMOVAL LIMITS

SS REMOVAL LIMITS

REMOVE SIGN SUPPORTS

29'0AK'

30'0AK'

31'0AK'

MILITARY ROAD

STA 450'SB'+00

STA 456'SB'+00

MATCH LINE

MATCH LINE

451'SB' 452'SB' 453'SB' 454'SB' 455'SB' 456

451'NB' 452'NB' 453'NB' 454'NB' 455'NB' 456

ABANDON WATER MAIN STRUCTURE

REMOVE HYDRANT

REMOVE DRIVEWAY

SS REMOVAL LIMITS

REMOVE HYDRANT

FRENCHIE'S
TAVERN

OAK PARK AVENUE

MANOWSKE WELDING

ASPHALT C.E.

CONCRETE C.E.

CONCRETE P.E.

GRAVEL C.E.

ASPHALT P.E.

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: MILITARY ROAD	SHEET 33	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021102-RM.DWG
LAYOUT NAME - 49860022-021102-RM-03-MILITARY

PLOT DATE : 7/29/2016 8:31 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

FLEET FARM

LENZ
TRUCK CENTER

N

REMOVE DRIVEWAY

SS REMOVAL LIMITS

MATCH LINE

STA 456'SB'+00

'SB'

'NB'

457'SB'

457'NB'

458'NB'

459'NB'

MILITARY ROAD

460'NB'

461'NB'

462'NB'

ASPHALT
C.E.

XXXX

XX

ASPHALT
P.E.

FRENCHIE'S
TAVERN

NEXTMEDIA
OUTDOOR INC

BRENNER TANK LLC

RICH'S
ENGINE REPAIR
& SERVICE

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: MILITARY ROAD	SHEET 34	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021102-RM.DWG
LAYOUT NAME - 49860022-021102-RM-04-MILITARY

PLOT DATE : 7/29/2016 8:31 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

N

FLEET FARM
CAR WASH

CTH VV
PIONEER ROAD

REMOVE DRIVEWAY

REMOVE CULVERT PIPE

HEIGHT TO BOTTOM OF SIGN=16.45'

AIRGAS

ASPHALT PARKING LOT

GATE

REMOVE CONCRETE BASE

522'SUL'

523'SUL'

524'SUL'

525'SUL'

SULLIVAN DRIVE

SS REMOVAL LIMITS

REMOVE CONCRETE BASE

REMOVE CONCRETE BASE

SS REMOVAL LIMITS

REMOVE CULVERT PIPE

SS REMOVAL LIMITS

FLEET FARM
GAS STATION

ROGERSVILLE
ROAD

ASPHALT
PARKING LOT

FLEET FARM

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: SULLIVAN DRIVE	SHEET 35	E

2

RICH'S ENGINE REPAIR & SERVICE

FRENCHIE'S TAVERN

MANOWSKE WELDING

FLEET FARM GAS STATION

FLEET FARM

456'SB' 456'NB' 455'SB' 455'NB' MILITARY ROAD

454'SB' 454'NB' 453'SB' 453'NB' ROGERSVILLE ROAD

OAK PARK AVENUE

29'OAK' 30'OAK' 31'OAK' 32'OAK' 33'OAK' 34'OAK'

SS REMOVAL LIMITS

REMOVE SIGN SUPPORTS

REMOVE HYDRANT

REMOVE DRIVEWAY

SS REMOVAL LIMITS

REMOVE DRIVEWAY

REMOVAL LIMITS

ASPHALT C.E.

ASPHALT P.E.

CONCRETE C.E.

CONCRETE P.E.

GRAVEL C.E.

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- REMOVING MANHOLES
- ABANDON MANHOLES
- REMOVING INLETS
- ABANDON WATER MAIN STRUCTURES

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	REMOVAL PLAN: OAK PARK AVENUE	SHEET 36	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021103-RM.DWG
LAYOUT NAME - 49860022-021103-RM-02-OAKPARK

PLOT DATE : 7/29/2016 8:31 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

1	CONCRETE MEDIAN SLOPED NOSE TYPE 1		PROPOSED CATCH BASIN/ INLET
2	CONCRETE MEDIAN SLOPED NOSE TYPE 2		PROPOSED STORM SEWER MANHOLE
1	CONCRETE CURB RAMP TYPE 1	S	PROPOSED SANITARY SEWER MANHOLE
2	CONCRETE CURB RAMP TYPE 2		PROPOSED HYDRANT
3	CONCRETE CURB RAMP TYPE 3		PROPOSED WATER VALVE
4B1	CONCRETE CURB RAMP TYPE 4B1		PROPOSED LIGHT POLE
5	CONCRETE CURB RAMP TYPE 5		DATA POINT

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
1.01	VV-EB	272+08.07	13.9'	BEGIN TAPER

ASPHALT C.E.

ASPHALTIC SURFACE (SEE TYPICAL SECTIONS FOR LAYER THICKNESSES)

269'WB' 270'WB' 271'WB' 272'WB' 273'

269'EB' 270'EB' 271'EB' 272'EB' 273'

CTH VV
PIONEER ROAD

MATCH LINE STA 273+00

1.01

ASPHALT C.E.

ASPHALT C.E.

NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

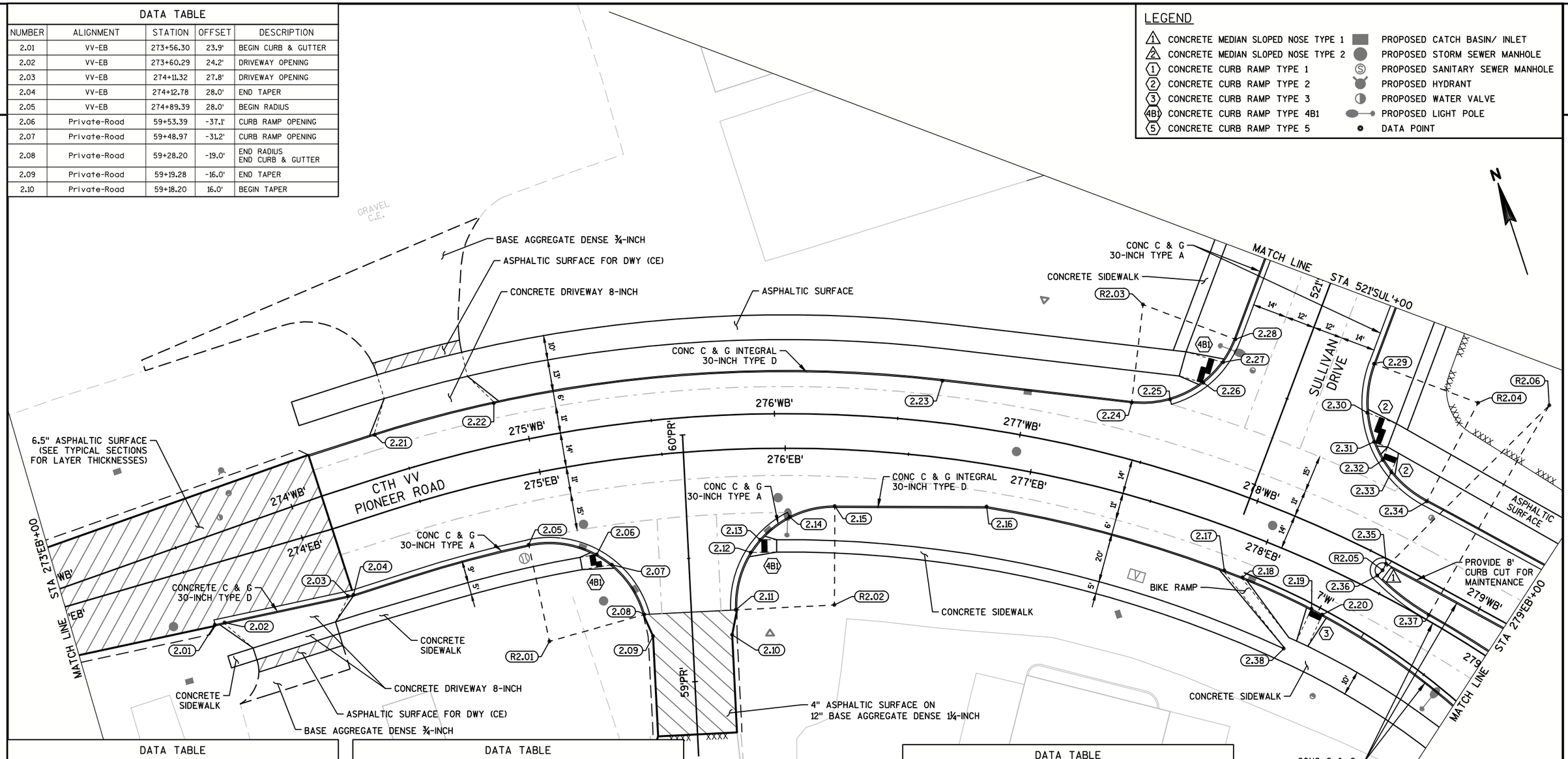
ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN DETAILS: CTH VV	SHEET 37	E

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
2.01	VV-EB	273+56.30	23.9'	BEGIN CURB & GUTTER
2.02	VV-EB	273+60.29	24.2'	DRIVEWAY OPENING
2.03	VV-EB	274+11.32	27.8'	DRIVEWAY OPENING
2.04	VV-EB	274+12.78	28.0'	END TAPER
2.05	VV-EB	274+89.39	28.0'	BEGIN RADIUS
2.06	Private-Road	59+53.39	-37.1'	CURB RAMP OPENING
2.07	Private-Road	59+48.97	-31.2'	CURB RAMP OPENING
2.08	Private-Road	59+28.20	-19.0'	END RADIUS END CURB & GUTTER
2.09	Private-Road	59+19.28	-16.0'	END TAPER
2.10	Private-Road	59+18.20	16.0'	BEGIN TAPER

LEGEND

- CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CONCRETE CURB RAMP TYPE 1
- CONCRETE CURB RAMP TYPE 2
- CONCRETE CURB RAMP TYPE 3
- CONCRETE CURB RAMP TYPE 4B1
- CONCRETE CURB RAMP TYPE 5
- PROPOSED CATCH BASIN/ INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED LIGHT POLE
- DATA POINT



DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
2.11	Private-Road	59+28.20	18.0'	BEGIN RADIUS BEGIN CURB & GUTTER
2.12	Private-Road	59+51.11	25.2'	CURB RAMP OPENING
2.13	Private-Road	59+56.01	29.2'	CURB RAMP OPENING
2.14	VV-EB	276+01.91	27.8'	BEGIN INTEGRAL CURB & GUTTER
2.15	VV-EB	276+21.02	23.0'	END RADIUS BEGIN TAPER
2.16	VV-EB	276+84.73	17.0'	END TAPER
2.17	VV-EB	277+87.91	17.0'	CURB RAMP OPENING
2.18	VV-EB	277+96.07	17.0'	CURB RAMP OPENING END INTEGRAL CURB & GUTTER
2.19	VV-EB	278+27.81	17.6'	CURB RAMP OPENING
2.20	VV-EB	278+32.99	17.9'	CURB RAMP OPENING

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
2.21	VV-WB	274+40.69	-17.0'	DRIVEWAY OPENING
2.22	VV-WB	274+89.15	-17.0'	DRIVEWAY OPENING
2.23	VV-WB	276+66.26	-17.0'	BEGIN TAPER
2.24	VV-WB	277+40.50	-22.4'	END TAPER BEGIN RADIUS
2.25	VV-WB	277+54.54	-27.7'	END INTEGRAL CURB & GUTTER
2.26	Sullivan	520+44.08	-34.0'	CURB RAMP OPENING
2.27	Sullivan	520+54.63	-29.4'	CURB RAMP OPENING
2.28	Sullivan	520+65.11	-28.0'	END RADIUS
2.29	Sullivan	520+75.60	28.0'	BEGIN RADIUS
2.30	Sullivan	520+56.09	32.4'	CURB RAMP OPENING

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
2.31	Sullivan	520+45.97	39.1'	CURB RAMP OPENING
2.32	VV-WB	278+38.89	-35.2'	CURB RAMP OPENING
2.33	VV-WB	278+43.84	-32.1'	CURB RAMP OPENING
2.34	VV-WB	278+61.01	-28.0'	END RADIUS
2.35	VV-WB	278+58.02	2.0'	ISLAND NOSE RADIUS
2.36	VV-EB	278+46.10	-6.1'	ISLAND NOSE RADIUS BEGIN TAPER
2.37	VV-EB	278+71.80	-2.0'	END TAPER
2.38	VV-EB	278+24.20	37.0'	END 5' SIDEWALK BEGIN 10' MULTI-USE PATH

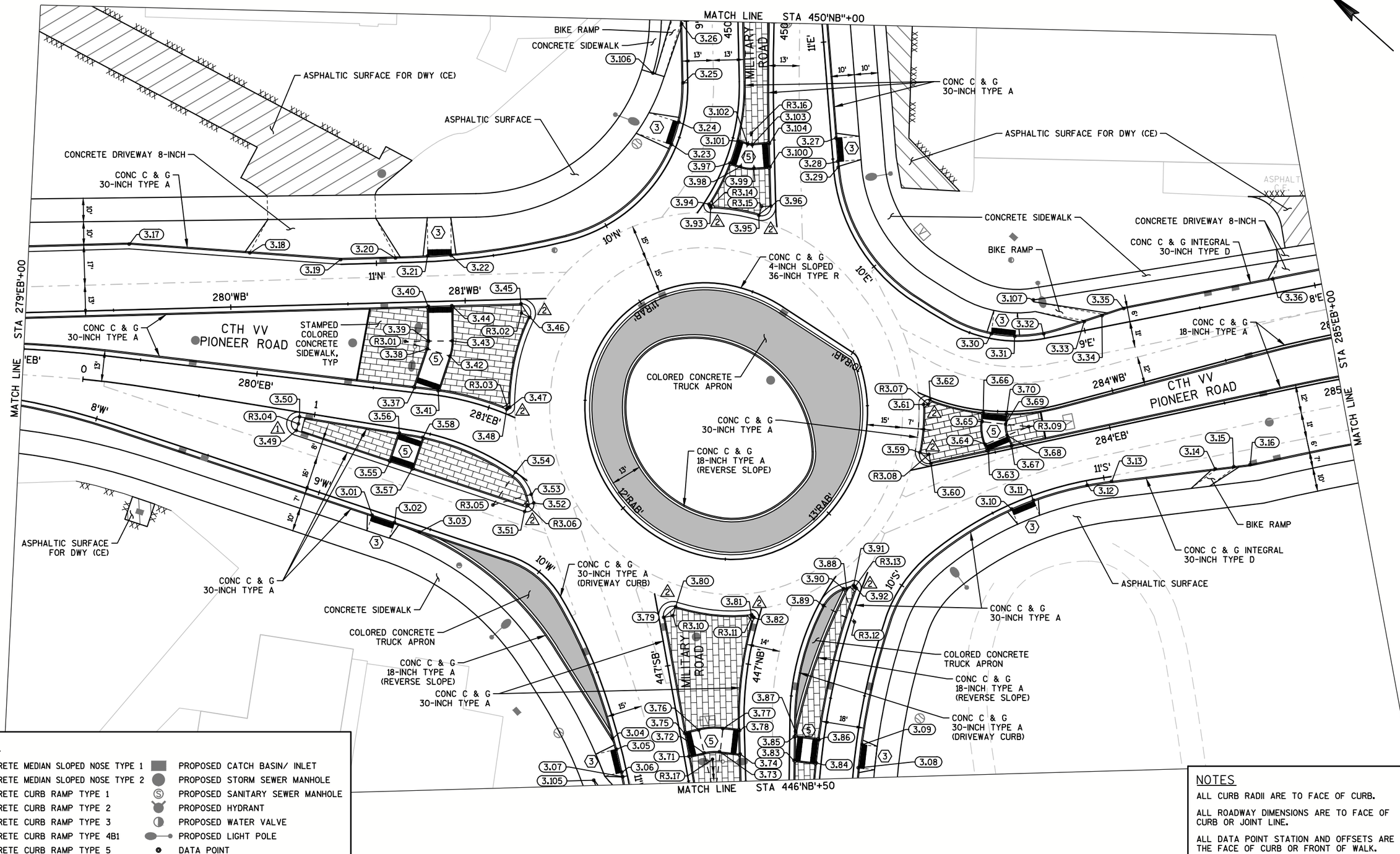
NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

*SEE NEXT SHEET FOR DATA AND RADIUS POINT TABLES



LEGEND

1 CONCRETE MEDIAN SLOPED NOSE TYPE 1	PROPOSED CATCH BASIN/ INLET
2 CONCRETE MEDIAN SLOPED NOSE TYPE 2	PROPOSED STORM SEWER MANHOLE
1 CONCRETE CURB RAMP TYPE 1	PROPOSED SANITARY SEWER MANHOLE
2 CONCRETE CURB RAMP TYPE 2	PROPOSED HYDRANT
3 CONCRETE CURB RAMP TYPE 3	PROPOSED WATER VALVE
4B1 CONCRETE CURB RAMP TYPE 4B1	PROPOSED LIGHT POLE
5 CONCRETE CURB RAMP TYPE 5	DATA POINT

NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN DETAILS: CTH VV	SHEET 39 E

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
3.01	CR-RAB-W	9+24.55	2.0'	CURB RAMP OPENING
3.02	CR-RAB-W	9+34.55	2.0'	CURB RAMP OPENING
3.03	CR-RAB-W	9+45.94	2.5'	BEGIN TRUCK APRON
3.04	CR-RAB-W	10+78.96	2.5'	END TRUCK APRON
3.05	CR-RAB-W	10+83.93	2.0'	CURB RAMP OPENING
3.06	CR-RAB-W	10+93.99	2.0'	CURB RAMP OPENING
3.07	CR-RAB-W	10+96.02	2.0'	BEGIN INTEGRAL CURB & GUTTER
3.08	CR-RAB-S	9+19.15	2.0'	CURB RAMP OPENING
3.09	CR-RAB-S	9+29.23	2.5'	CURB RAMP OPENING
3.10	CR-RAB-S	10+58.16	2.0'	CURB RAMP OPENING
3.11	CR-RAB-S	10+68.30	2.0'	CURB RAMP OPENING
3.12	CR-RAB-S	10+92.47	2.0'	BEGIN INTEGRAL CURB & GUTTER
3.13	VV-EB	283+95.91	22.6'	BEGIN TAPER
3.14	VV-EB	284+40.24	26.6'	CURB RAMP OPENING
3.15	VV-EB	284+48.21	27.4'	CURB RAMP OPENING
3.16	VV-EB	284+55.21	28.0'	END TAPER
3.17	VV-WB	279+57.44	-28.0'	BEGIN TAPER
3.18	VV-WB	280+08.80	-22.9'	DRIVEWAY OPENING
3.19	VV-WB	280+47.44	-19.0'	END TAPER
3.20	CR-RAB-N	10+91.82	2.0'	DRIVEWAY OPENING
3.21	CR-RAB-N	10+78.00	2.5'	CURB RAMP OPENING
3.22	CR-RAB-N	10+67.93	2.0'	CURB RAMP OPENING
3.23	CR-RAB-N	9+54.04	2.0'	CURB RAMP OPENING
3.24	CR-RAB-N	9+43.73	2.0'	CURB RAMP OPENING
3.25	CR-RAB-N	9+26.26	2.0'	BEGIN INTEGRAL CURB & GUTTER
3.26	CR-RAB-N	9+01.07	2.0'	CURB RAMP OPENING
3.27	CR-RAB-E	10+58.75	2.0'	CURB RAMP OPENING
3.28	CR-RAB-E	10+48.75	2.0'	CURB RAMP OPENING
3.29	CR-RAB-E	10+46.23	2.0'	BEGIN INTEGRAL CURB & GUTTER
3.30	CR-RAB-E	9+40.64	2.0'	CURB RAMP OPENING
3.31	CR-RAB-E	9+30.28	2.0'	CURB RAMP OPENING
3.32	CR-RAB-E	9+17.45	2.0'	BEGIN INTEGRAL CURB & GUTTER
3.33	CR-RAB-E	8+99.48	3.8'	CURB RAMP OPENING
3.34	CR-RAB-E	8+91.57	4.8'	CURB RAMP OPENING
3.35	CR-RAB-E	8+81.83	6.0'	END TAPER
3.36	VV-EB	284+81.02	-47.3'	DRIVEWAY OPENING
3.37	VV-EB	280+67.45	-2.0'	CURB RAMP OPENING
3.38	VV-EB	280+70.98	-19.2'	BEGIN RADIUS
3.39	VV-WB	280+84.04	16.8'	END RADIUS
3.40	VV-WB	280+84.26	2.0'	CURB RAMP OPENING
3.41	VV-EB	280+77.59	-2.0'	CURB RAMP OPENING
3.42	VV-EB	280+79.96	-17.3'	BEGIN RADIUS
3.43	VV-WB	280+94.04	17.0'	END RADIUS
3.44	VV-WB	280+94.26	2.0'	CURB RAMP OPENING
3.45	VV-WB	281+23.84	2.0'	BEGIN RADIUS
3.46	VV-WB	281+27.39	7.8'	END RADIUS
3.47	VV-EB	281+08.30	-3.4'	END RADIUS
3.48	VV-EB	281+07.40	-2.0'	BEGIN RADIUS
3.49	CR-RAB-W	8+82.43	-22.0'	BEGIN RADIUS
3.50	CR-EB-RT-Island-1	0+93.85	2.0'	END RADIUS
3.51	CR-RAB-W	9+85.76	-20.0'	BEGIN RADIUS
3.52	CR-RAB-W	9+87.32	-24.7'	END RADIUS
3.53	CR-RAB-W	9+86.00	-27.8'	END RADIUS
3.54	CR-EB-RT-Island-1	1+90.08	0.0'	BEGIN RADIUS
3.55	CR-RAB-W	9+24.55	-22.0'	CURB RAMP OPENING

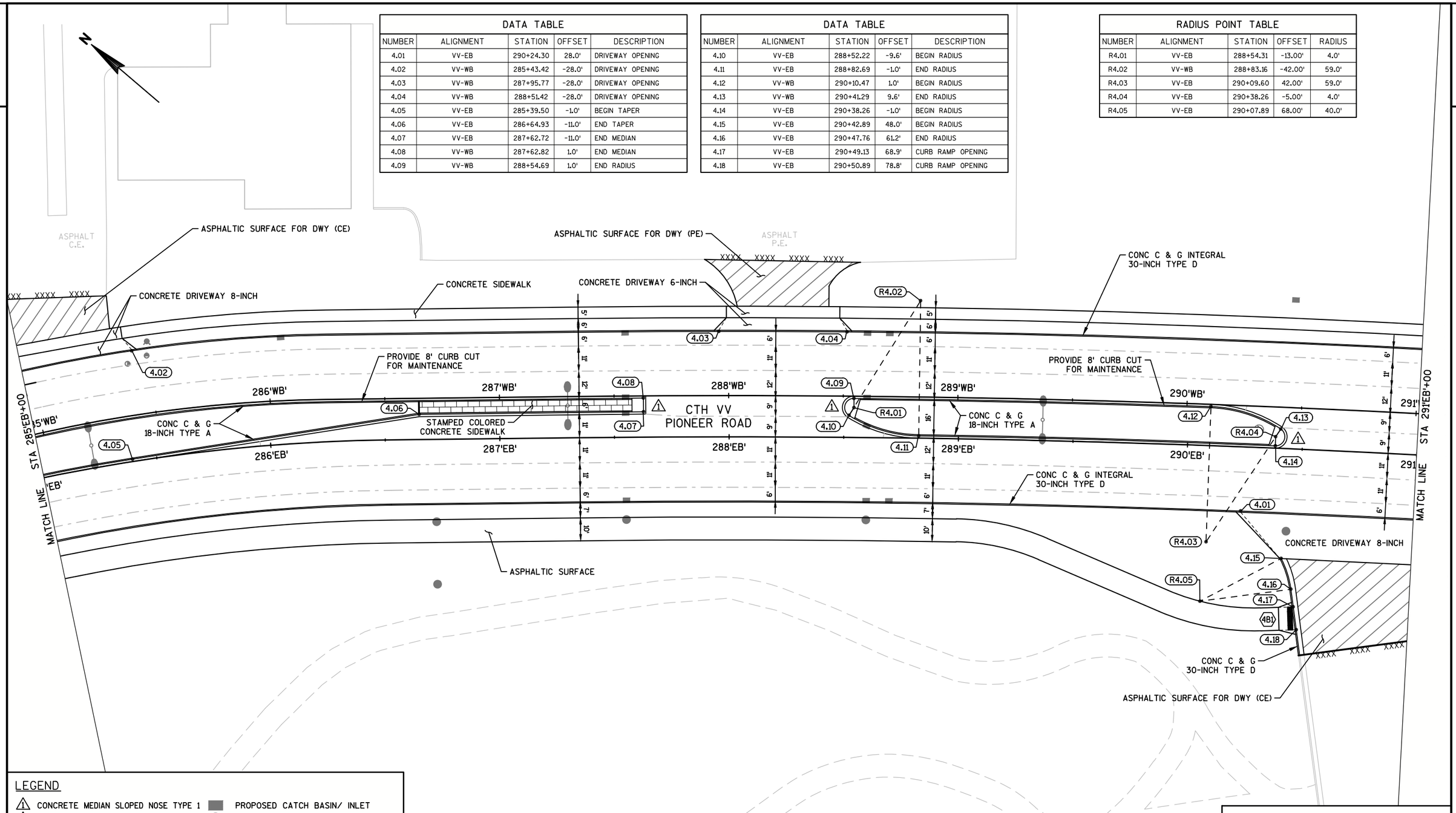
DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
3.56	CR-EB-RT-Island-1	1+37.00	2.0'	CURB RAMP OPENING
3.57	CR-RAB-W	9+34.55	-22.0'	CURB RAMP OPENING
3.58	CR-EB-RT-Island-1	1+47.21	2.0'	CURB RAMP OPENING
3.59	VV-EB	283+18.51	-6.6'	BEGIN RADIUS
3.60	VV-EB	283+22.19	-1.0'	END RADIUS
3.61	VV-WB	283+19.02	3.8'	BEGIN RADIUS
3.62	VV-WB	283+20.79	1.0'	END RADIUS
3.63	VV-EB	283+47.17	-1.0'	CURB RAMP OPENING
3.64	VV-EB	283+46.61	-4.2'	BEGIN RADIUS
3.65	VV-WB	283+43.92	4.9'	END RADIUS
3.66	VV-WB	283+43.91	1.0'	CURB RAMP OPENING
3.67	VV-EB	283+57.32	-1.0'	CURB RAMP OPENING
3.68	VV-EB	283+56.45	-5.9'	BEGIN RADIUS
3.69	VV-WB	283+53.37	5.4'	END RADIUS
3.70	VV-WB	283+53.82	1.0'	CURB RAMP OPENING
3.71	Military-SB	446+60.34	2.0'	CURB RAMP OPENING
3.72	Military-SB	446+60.68	8.6'	BEGIN RADIUS
3.73	Military-NB	446+62.90	-10.8'	END RADIUS
3.74	Military-NB	446+61.58	-2.0'	CURB RAMP OPENING
3.75	Military-SB	446+70.36	2.0'	CURB RAMP OPENING
3.76	Military-SB	446+70.66	8.1'	BEGIN RADIUS
3.77	Military-NB	446+72.70	-9.1'	END RADIUS
3.78	Military-NB	446+71.68	-2.0'	CURB RAMP OPENING
3.79	Military-SB	447+20.62	2.0'	BEGIN RADIUS
3.80	Military-SB	447+24.17	7.8'	END RADIUS
3.81	Military-NB	447+20.72	-3.4'	END RADIUS
3.82	Military-NB	447+19.80	-2.0'	BEGIN RADIUS
3.83	CR-Military-RT-Island-1	2+22.51	2.0'	CURB RAMP OPENING
3.84	CR-Military-RT-Island-2	2+21.81	-2.0'	CURB RAMP OPENING
3.85	CR-Military-RT-Island-1	2+32.56	2.0'	CURB RAMP OPENING
3.86	CR-Military-RT-Island-2	2+31.74	-2.0'	CURB RAMP OPENING
3.87	CR-Military-RT-Island-1	2+34.89	2.5'	BEGIN TRUCK APRON
3.88	CR-Military-RT-Island-1	3+03.16	6.9'	END TRUCK APRON
3.89	CR-Military-RT-Island-1	2+91.53	2.0'	BEGIN RADIUS
3.90	CR-Military-RT-Island-1	3+02.53	5.7'	END RADIUS
3.91	CR-Military-RT-Island-2	2+98.68	-3.6'	END RADIUS
3.92	CR-Military-RT-Island-2	2+97.91	-2.0'	BEGIN RADIUS
3.93	Military-SB	449+19.31	3.5'	BEGIN RADIUS
3.94	Military-SB	449+20.13	2.0'	END RADIUS
3.95	Military-NB	449+18.12	-7.2'	BEGIN RADIUS
3.96	Military-NB	449+21.80	-2.0'	END RADIUS
3.97	Military-SB	449+39.38	2.0'	CURB RAMP OPENING
3.98	Military-SB	449+39.62	6.7'	BEGIN RADIUS
3.99	Military-NB	449+38.21	-8.8'	END RADIUS
3.100	Military-NB	449+38.57	-2.0'	CURB RAMP OPENING
3.101	Military-SB	449+49.14	2.5'	CURB RAMP OPENING
3.102	Military-SB	449+48.93	6.7'	BEGIN RADIUS
3.103	Military-NB	449+48.19	-9.4'	END RADIUS
3.104	Military-NB	449+48.59	-2.0'	CURB RAMP OPENING
3.105	CR-RAB-W	10+94.89	14.5'	END 10' MULTI-USE PATH BEGIN 5' SIDEWALK
3.106	CR-RAB-N	9+21.83	14.7'	END 10' MULTI-USE PATH BEGIN 5' SIDEWALK
3.107	CR-RAB-E	9+19.62	17.0'	END 10' MULTI-USE PATH BEGIN 5' SIDEWALK

RADIUS POINT TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	RADIUS
R3.01	VV-EB	280+61.19	-21.19'	10.0' 20.0'
R3.02	VV-WB	281+23.84	6.00'	4.0'
R3.03	VV-EB	281+07.40	-3.00'	1.0'
R3.04	CR-EB-RT-Island-1	0+93.85	5.00'	3.0'
R3.05	CR-RAB-W	9+72.03	-18.33'	17.0'
R3.06	CR-RAB-W	9+85.76	-23.00'	3.0'
R3.07	VV-WB	283+20.79	3.00'	2.0'
R3.08	VV-EB	283+22.19	-5.00'	4.0'
R3.09	VV-EB	283+66.30	-7.65'	5.0' 15.0'
R3.10	Military-SB	447+20.62	6.00'	4.0'
R3.11	Military-NB	447+19.80	-3.00'	1.0'
R3.12	CR-RAB-S	9+78.79	-12.14'	15.0'
R3.13	CR-RAB-S	9+90.66	-17.31'	1.0'
R3.14	Military-SB	449+20.13	3.00'	1.0'
R3.15	Military-NB	449+21.80	-6.00'	4.0'
R3.16	Military-NB	449+53.15	-9.63'	5.0' 15.0'
R3.17	Military-NB	446+43.01	-13.38'	20.0' 30.0'

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
4.01	VV-EB	290+24.30	28.0'	DRIVEWAY OPENING
4.02	VV-WB	285+43.42	-28.0'	DRIVEWAY OPENING
4.03	VV-WB	287+95.77	-28.0'	DRIVEWAY OPENING
4.04	VV-WB	288+51.42	-28.0'	DRIVEWAY OPENING
4.05	VV-EB	285+39.50	-1.0'	BEGIN TAPER
4.06	VV-EB	286+64.93	-11.0'	END TAPER
4.07	VV-EB	287+62.72	-11.0'	END MEDIAN
4.08	VV-WB	287+62.82	1.0'	END MEDIAN
4.09	VV-WB	288+54.69	1.0'	END RADIUS

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
4.10	VV-EB	288+52.22	-9.6'	BEGIN RADIUS
4.11	VV-EB	288+82.69	-1.0'	END RADIUS
4.12	VV-WB	290+10.47	1.0'	BEGIN RADIUS
4.13	VV-WB	290+41.29	9.6'	END RADIUS
4.14	VV-EB	290+38.26	-1.0'	BEGIN RADIUS
4.15	VV-EB	290+42.89	48.0'	BEGIN RADIUS
4.16	VV-EB	290+47.76	61.2'	END RADIUS
4.17	VV-EB	290+49.13	68.9'	CURB RAMP OPENING
4.18	VV-EB	290+50.89	78.8'	CURB RAMP OPENING

RADIUS POINT TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	RADIUS
R4.01	VV-EB	288+54.31	-13.00'	4.0'
R4.02	VV-WB	288+83.16	-42.00'	59.0'
R4.03	VV-EB	290+09.60	42.00'	59.0'
R4.04	VV-EB	290+38.26	-5.00'	4.0'
R4.05	VV-EB	290+07.89	68.00'	40.0'



LEGEND

1	CONCRETE MEDIAN SLOPED NOSE TYPE 1		PROPOSED CATCH BASIN/ INLET
2	CONCRETE MEDIAN SLOPED NOSE TYPE 2		PROPOSED STORM SEWER MANHOLE
1	CONCRETE CURB RAMP TYPE 1	S	PROPOSED SANITARY SEWER MANHOLE
2	CONCRETE CURB RAMP TYPE 2		PROPOSED HYDRANT
3	CONCRETE CURB RAMP TYPE 3		PROPOSED WATER VALVE
4B1	CONCRETE CURB RAMP TYPE 4B1		PROPOSED LIGHT POLE
5	CONCRETE CURB RAMP TYPE 5		DATA POINT

NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN DETAILS: CTH VV	SHEET 41	E

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
5.01	VV-EB	291+27.24	28.0'	DRIVEWAY OPENING
5.02	VV-EB	292+00.00	28.0'	BEGIN TAPER
5.03	VV-EB	292+60.00	40.0'	END TAPER
5.04	VV-EB	293+10.00	40.0'	BEGIN TAPER
5.05	VV-EB	293+46.00	28.0'	END TAPER
5.06	VV-EB	293+64.95	28.0'	BEGIN TAPER
5.07	VV-EB	293+84.85	30.0'	END INTEGRAL CURB & GUTTER
5.08	VV-EB	294+74.95	39.0'	END TAPER
5.09	VV-EB	296+08.98	39.0'	BEGIN RADIUS
5.10	VV-EB	296+36.11	47.0'	CURB RAMP OPENING

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
5.11	VV-EB	296+47.40	57.0'	CURB RAMP OPENING
5.12	VV-EB	296+57.76	78.0'	END RADIUS
5.14	VV-EB	291+35.36	-1.0'	BEGIN MEDIAN
5.15	VV-WB	291+36.63	11.0'	BEGIN MEDIAN
5.16	VV-WB	292+86.13	11.0'	BEGIN TAPER
5.17	VV-WB	293+86.13	1.0'	END TAPER
5.18	VV-WB	295+62.95	1.0'	BEGIN RADIUS
5.19	VV-WB	296+16.64	6.9'	END RADIUS
5.20	VV-WB	296+25.06	9.2'	END RADIUS
5.21	VV-EB	296+23.77	-1.0'	BEGIN RADIUS

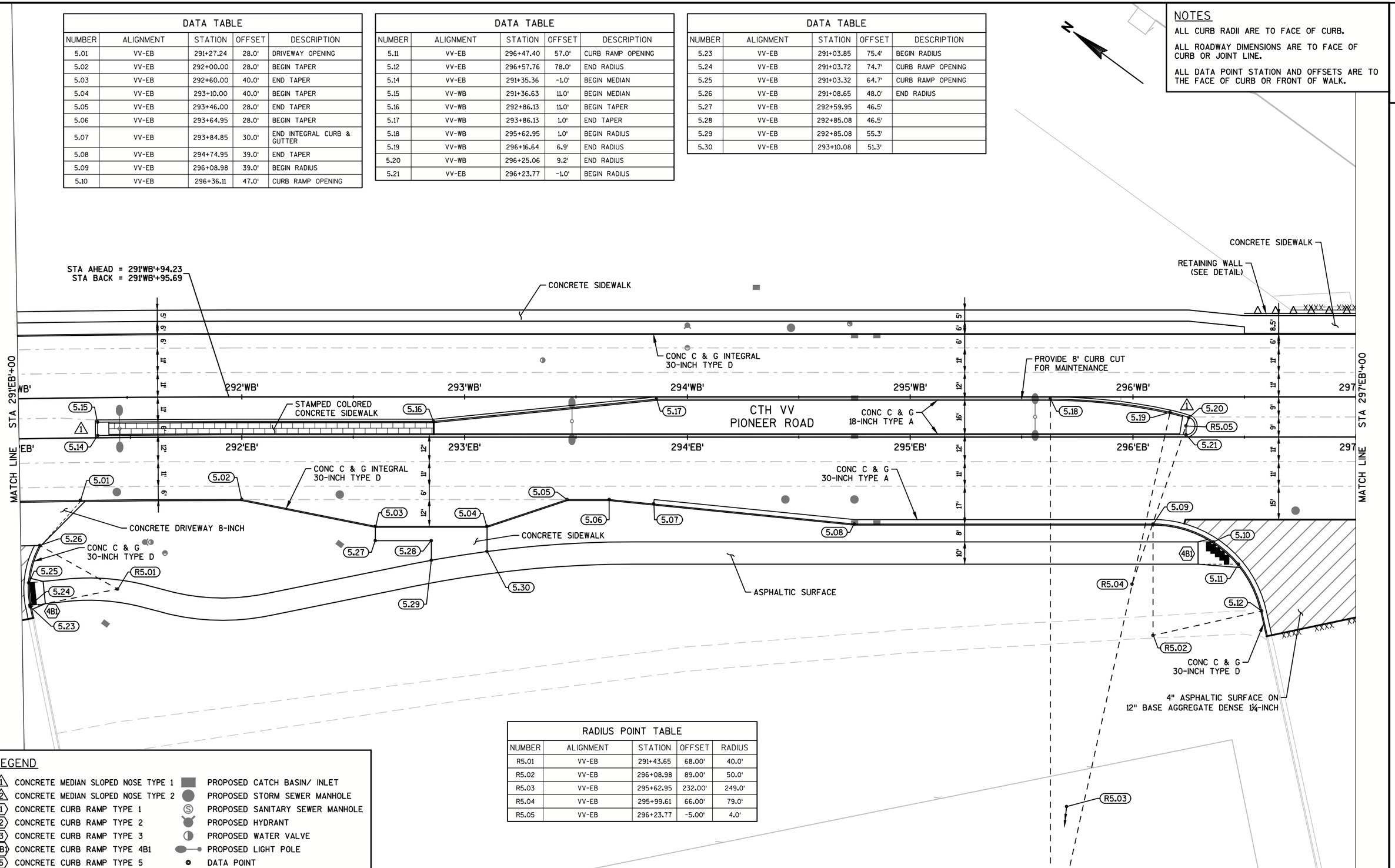
DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
5.23	VV-EB	291+03.85	75.4'	BEGIN RADIUS
5.24	VV-EB	291+03.72	74.7'	CURB RAMP OPENING
5.25	VV-EB	291+03.32	64.7'	CURB RAMP OPENING
5.26	VV-EB	291+08.65	48.0'	END RADIUS
5.27	VV-EB	292+59.95	46.5'	
5.28	VV-EB	292+85.08	46.5'	
5.29	VV-EB	292+85.08	55.3'	
5.30	VV-EB	293+10.08	51.3'	

NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.



RADIUS POINT TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	RADIUS
R5.01	VV-EB	291+43.65	68.00'	40.0'
R5.02	VV-EB	296+08.98	89.00'	50.0'
R5.03	VV-EB	295+62.95	232.00'	249.0'
R5.04	VV-EB	295+99.61	66.00'	79.0'
R5.05	VV-EB	296+23.77	-5.00'	4.0'

LEGEND

- 1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- 2 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 5 CONCRETE CURB RAMP TYPE 5
- PROPOSED CATCH BASIN/ INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED LIGHT POLE
- DATA POINT

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN DETAILS: CTH VV	SHEET 42	E

LEGEND

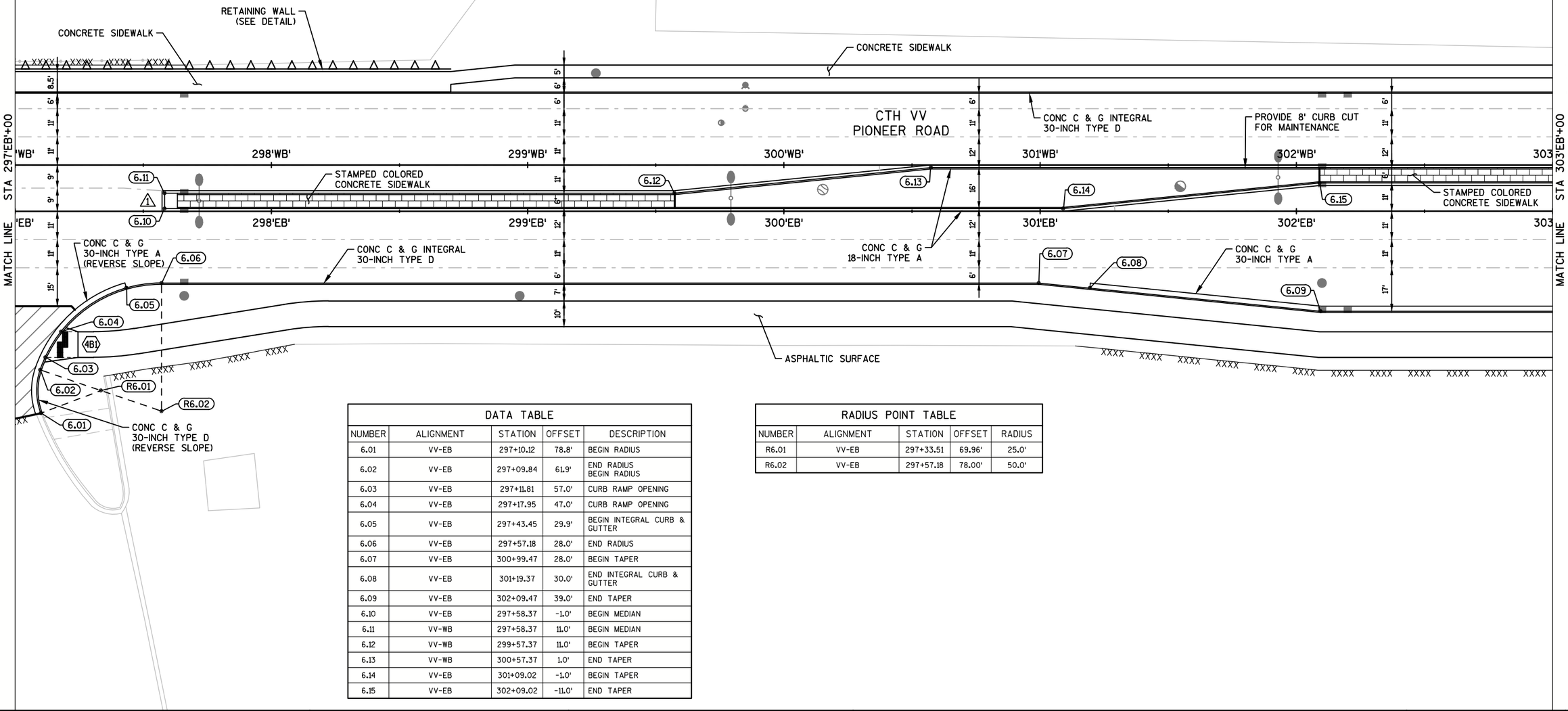
- 1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- 2 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 5 CONCRETE CURB RAMP TYPE 5
- PROPOSED CATCH BASIN/ INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED LIGHT POLE
- DATA POINT

NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.



DATA TABLE

NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
6.01	VV-EB	297+10.12	78.8'	BEGIN RADIUS
6.02	VV-EB	297+09.84	61.9'	END RADIUS BEGIN RADIUS
6.03	VV-EB	297+11.81	57.0'	CURB RAMP OPENING
6.04	VV-EB	297+17.95	47.0'	CURB RAMP OPENING
6.05	VV-EB	297+43.45	29.9'	BEGIN INTEGRAL CURB & GUTTER
6.06	VV-EB	297+57.18	28.0'	END RADIUS
6.07	VV-EB	300+99.47	28.0'	BEGIN TAPER
6.08	VV-EB	301+19.37	30.0'	END INTEGRAL CURB & GUTTER
6.09	VV-EB	302+09.47	39.0'	END TAPER
6.10	VV-EB	297+58.37	-1.0'	BEGIN MEDIAN
6.11	VV-WB	297+58.37	11.0'	BEGIN MEDIAN
6.12	VV-WB	299+57.37	11.0'	BEGIN TAPER
6.13	VV-WB	300+57.37	1.0'	END TAPER
6.14	VV-EB	301+09.02	-1.0'	BEGIN TAPER
6.15	VV-EB	302+09.02	-11.0'	END TAPER

RADIUS POINT TABLE

NUMBER	ALIGNMENT	STATION	OFFSET	RADIUS
R6.01	VV-EB	297+33.51	69.96'	25.0'
R6.02	VV-EB	297+57.18	78.00'	50.0'

2

NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

RADIUS POINT TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	RADIUS
R7.01	VV-EB	304+13.28	89.00'	50.0'
R7.02	Merc-South	8+21.05	216.00'	198.0'
R7.03	Merc-South	8+58.97	159.07'	134.0' 153.0'
R7.04	VV-EB	305+94.83	83.00'	55.0'
R7.05	VV-WB	303+84.05	-78.00'	50.0'
R7.06	Merc-South	12+08.24	-101.00'	75.0'
R7.07	VV-WB	305+48.95	-78.00'	50.0'
R7.08	Merc-South	9+27.41	20.00'	2.0'
R7.09	VV-EB	305+19.24	35.00'	3.0'
R7.10	VV-EB	305+29.73	35.00'	3.0'

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
7.01	VV-EB	304+09.07	39.0'	CURB RAMP OPENING
7.02	VV-EB	304+13.28	39.0'	BEGIN RADIUS
7.03	VV-EB	304+14.07	39.0'	CURB RAMP OPENING
7.04	Merc-South	9+53.89	-58.7'	CURB RAMP OPENING
7.05	Merc-South	9+42.01	-49.4'	CURB RAMP OPENING
7.06	Merc-South	9+17.52	-43.0'	END RADIUS
7.07	Merc-South	8+21.05	18.0'	BEGIN RADIUS
7.08	Merc-South	8+65.59	23.1'	END RADIUS
7.09	Merc-South	8+89.11	28.5'	BEGIN RADIUS
7.10	Merc-South	9+12.37	36.2'	END RADIUS BEGIN RADIUS
7.11	Merc-South	9+30.04	48.4'	CURB RAMP OPENING
7.12	Merc-South	9+38.20	59.3'	CURB RAMP OPENING
7.13	VV-EB	305+84.57	29.0'	BEGIN INTEGRAL CURB & GUTTER
7.14	VV-EB	305+94.83	28.0'	END RADIUS
7.15	VV-EB	307+78.44	28.0'	DRIVEWAY OPENING
7.16	VV-EB	308+29.44	28.0'	DRIVEWAY OPENING
7.17	VV-WB	303+84.05	-28.0'	BEGIN RADIUS

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
7.18	VV-WB	303+99.37	-30.4'	END INTEGRAL CURB & GUTTER
7.19	VV-WB	304+10.28	-35.4'	CURB RAMP OPENING
7.20	VV-WB	304+14.40	-38.3'	CURB RAMP OPENING
7.21	Merc-South	10+95.67	-39.0'	END RADIUS
7.22	Merc-South	11+23.94	-34.0'	END RADIUS
7.23	Merc-South	11+80.99	-26.9'	END RADIUS
7.25	Merc-South	10+70.83	24.2'	BEGIN RADIUS
7.26	VV-WB	305+19.75	-37.4'	CURB RAMP OPENING
7.27	VV-WB	305+23.95	-34.7'	CURB RAMP OPENING
7.28	VV-WB	305+33.63	-30.4'	BEGIN INTEGRAL CURB & GUTTER
7.29	VV-WB	305+48.95	-28.0'	END RADIUS
7.30	VV-EB	304+09.07	-11.0'	CURB RAMP OPENING
7.31	VV-WB	304+09.07	1.0'	CURB RAMP OPENING
7.32	VV-EB	304+14.07	-11.0'	CURB RAMP OPENING
7.33	VV-WB	304+14.07	1.0'	CURB RAMP OPENING
7.34	VV-EB	304+21.00	-11.0'	END MEDIAN
7.35	VV-WB	304+21.00	1.0'	END MEDIAN

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
7.36	VV-EB	305+39.00	-1.0'	BEGIN MEDIAN
7.37	VV-WB	305+39.00	11.0'	BEGIN MEDIAN
7.38	VV-WB	307+41.60	11.0'	BEGIN TAPER
7.39	VV-WB	308+31.60	2.0'	END TAPER
7.40	Merc-South	9+35.35	-27.0'	END MEDIAN
7.41	Merc-South	9+35.35	-18.0'	END MEDIAN
7.42	Merc-South	9+27.41	18.0'	END RADIUS
7.43	Merc-South	9+35.66	18.0'	CURB RAMP OPENING
7.44	Merc-South	9+45.83	18.0'	CURB RAMP OPENING
7.45	Merc-South	9+51.38	18.0'	BEGIN RADIUS
7.46	VV-EB	305+19.24	32.0'	END RADIUS
7.47	VV-EB	305+29.73	32.0'	BEGIN RADIUS
7.48	Merc-South	9+47.95	33.9'	END RADIUS
7.49	Merc-South	9+43.39	31.2'	CURB RAMP OPENING
7.50	Merc-South	9+34.21	25.9'	CURB RAMP OPENING
7.51	Merc-South	9+26.53	21.8'	BEGIN RADIUS

LEGEND

- 1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- 2 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 5 CONCRETE CURB RAMP TYPE 5
- PROPOSED CATCH BASIN/ INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED LIGHT POLE
- DATA POINT

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN DETAILS: CTH VV	SHEET 44	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021201-PD.DWG
LAYOUT NAME - 49860022-021201-PD-07-CTH VV

PLOT DATE : 8/1/2016 9:42 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
8.01	VV-EB	310+79.75	28.0'	BEGIN TAPER
8.02	VV-EB	311+03.99	26.0'	END TAPER
8.03	VV-WB	309+62.85	-27.8'	BEGIN TAPER
8.04	VV-WB	311+00.14	-26.0'	END TAPER
8.05	VV-EB	310+94.39	-1.0'	BEGIN TAPER
8.06	VV-EB	311+04.40	-2.0'	END TAPER

RADIUS POINT TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	RADIUS
R8.01	VV-WB	314+97.47	-615.96'	600.0'

R8.01

GRAVEL F.E.

CONC C & G INTEGRAL 30-INCH TYPE D

CONCRETE SIDEWALK

STA 309'EB'+00

MATCH LINE

'WB'

'EB'

8.03

8.04

8.05

8.06

8.01

8.02

310'WB'

310'EB'

311'WB'

311'EB'

312'WB'

312'EB'

313'WB'

314'WB'

CONC C & G 30-INCH TYPE A

CONC C & G 18-INCH TYPE A

CONC C & G INTEGRAL 30-INCH TYPE D

ASPHALTIC SURFACE

CTH VV
PIONEER ROAD

WILD GOOSE STATE TRAIL

LEGEND

- 1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- 2 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 5 CONCRETE CURB RAMP TYPE 5
- PROPOSED CATCH BASIN/ INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED LIGHT POLE
- DATA POINT

NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN DETAILS: CTH VV	SHEET 45	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021201-PD.DWG
LAYOUT NAME - 49860022-021201-PD-08-CTH VV
PLOT DATE : 8/1/2016 9:42 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

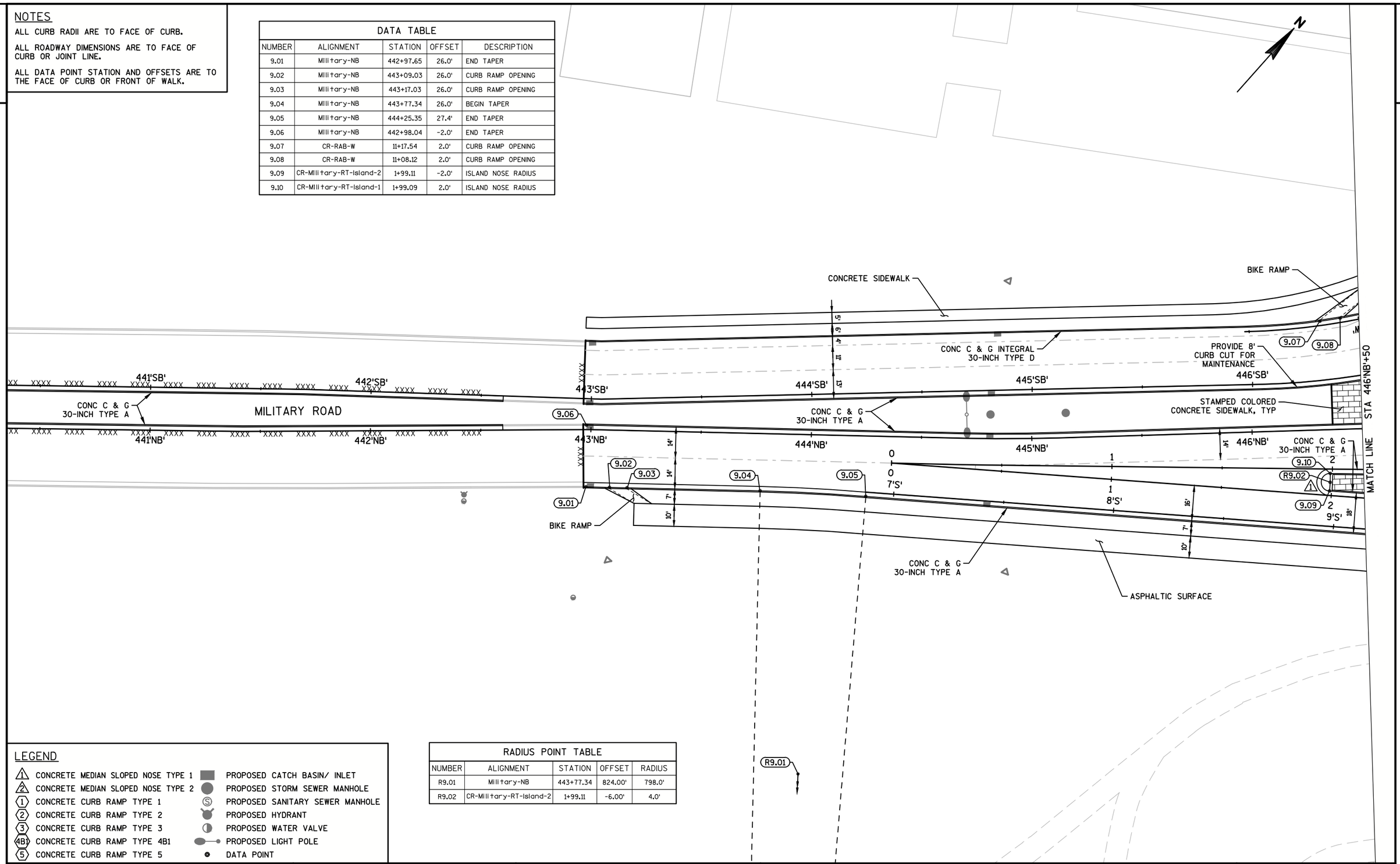
NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
9.01	Military-NB	442+97.65	26.0'	END TAPER
9.02	Military-NB	443+09.03	26.0'	CURB RAMP OPENING
9.03	Military-NB	443+17.03	26.0'	CURB RAMP OPENING
9.04	Military-NB	443+77.34	26.0'	BEGIN TAPER
9.05	Military-NB	444+25.35	27.4'	END TAPER
9.06	Military-NB	442+98.04	-2.0'	END TAPER
9.07	CR-RAB-W	11+17.54	2.0'	CURB RAMP OPENING
9.08	CR-RAB-W	11+08.12	2.0'	CURB RAMP OPENING
9.09	CR-Military-RT-Island-2	1+99.11	-2.0'	ISLAND NOSE RADIUS
9.10	CR-Military-RT-Island-1	1+99.09	2.0'	ISLAND NOSE RADIUS



LEGEND

- 1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- 2 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 5 CONCRETE CURB RAMP TYPE 5
- PROPOSED CATCH BASIN/ INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED LIGHT POLE
- DATA POINT

RADIUS POINT TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	RADIUS
R9.01	Military-NB	443+77.34	824.00'	798.0'
R9.02	CR-Military-RT-Island-2	1+99.11	-6.00'	4.0'

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN DETAILS: MILITARY ROAD	SHEET 46	E

LEGEND

- CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CONCRETE CURB RAMP TYPE 1
- CONCRETE CURB RAMP TYPE 2
- CONCRETE CURB RAMP TYPE 3
- CONCRETE CURB RAMP TYPE 4B1
- CONCRETE CURB RAMP TYPE 5
- PROPOSED CATCH BASIN/ INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED LIGHT POLE
- DATA POINT

NOTES

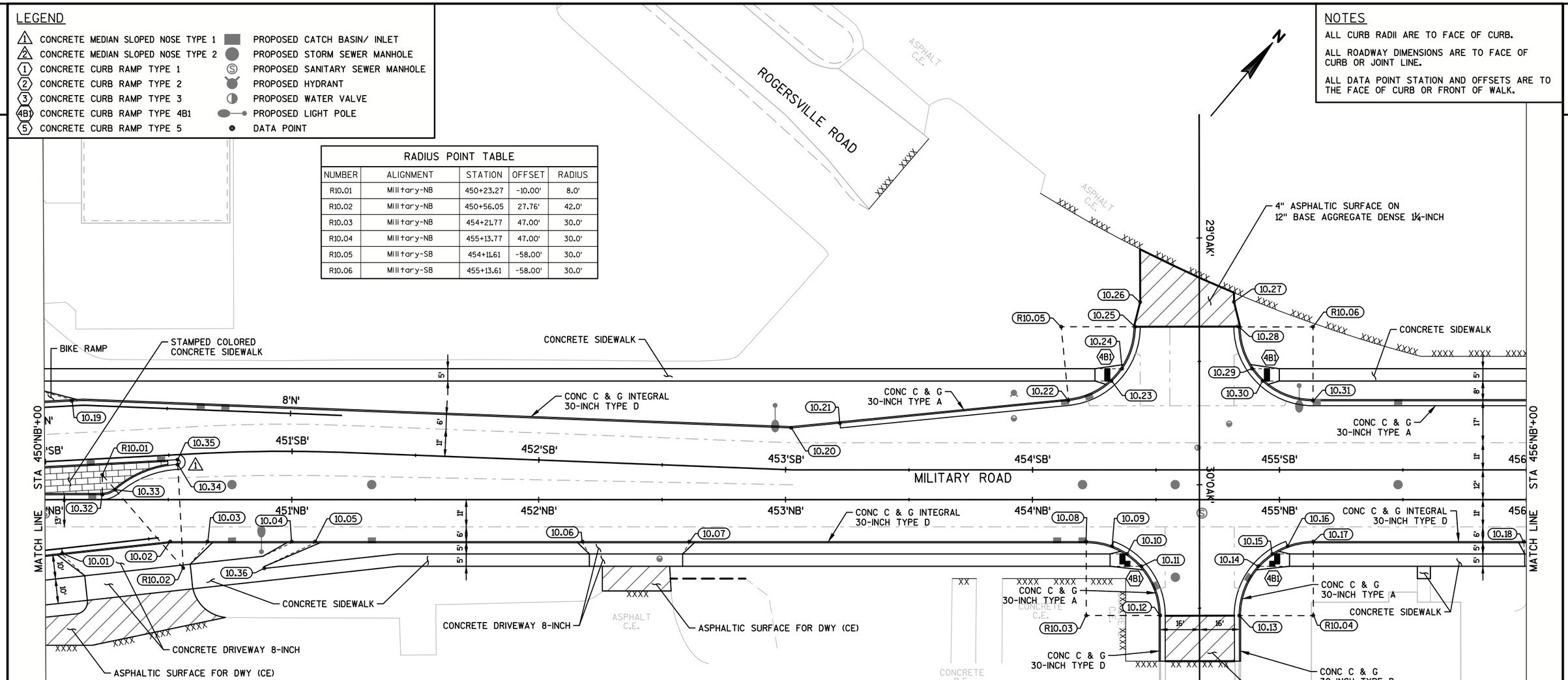
ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

RADIUS POINT TABLE

NUMBER	ALIGNMENT	STATION	OFFSET	RADIUS
R10.01	Military-NB	450+23.27	-10.00'	8.0'
R10.02	Military-NB	450+56.05	27.76'	42.0'
R10.03	Military-NB	454+21.77	47.00'	30.0'
R10.04	Military-NB	455+13.77	47.00'	30.0'
R10.05	Military-SB	454+11.61	-58.00'	30.0'
R10.06	Military-SB	455+13.61	-58.00'	30.0'



DATA TABLE

NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
10.01	CR-RAB-E	11+14.58	2.0'	BEGIN INTEGRAL CURB & GUTTER DRIVEWAY OPENING
10.02	Military-NB	450+50.81	17.0'	END TAPER
10.03	Military-NB	450+65.90	17.0'	DRIVEWAY OPENING
10.04	Military-SB	451+00.10	36.6'	CURB RAMP OPENING
10.05	Military-SB	451+10.18	36.4'	CURB RAMP OPENING
10.06	Military-NB	452+17.77	17.0'	DRIVEWAY OPENING
10.07	Military-NB	452+61.03	17.0'	DRIVEWAY OPENING
10.08	Military-NB	454+21.77	17.0'	BEGIN RADIUS
10.09	Military-NB	454+32.21	18.9'	END INTEGRAL CURB & GUTTER
10.10	Oak-Park	30+27.98	29.3'	CURB RAMP OPENING
10.11	Oak-Park	30+32.98	23.5'	CURB RAMP OPENING
10.12	Oak-Park	30+52.95	15.9'	END RADIUS

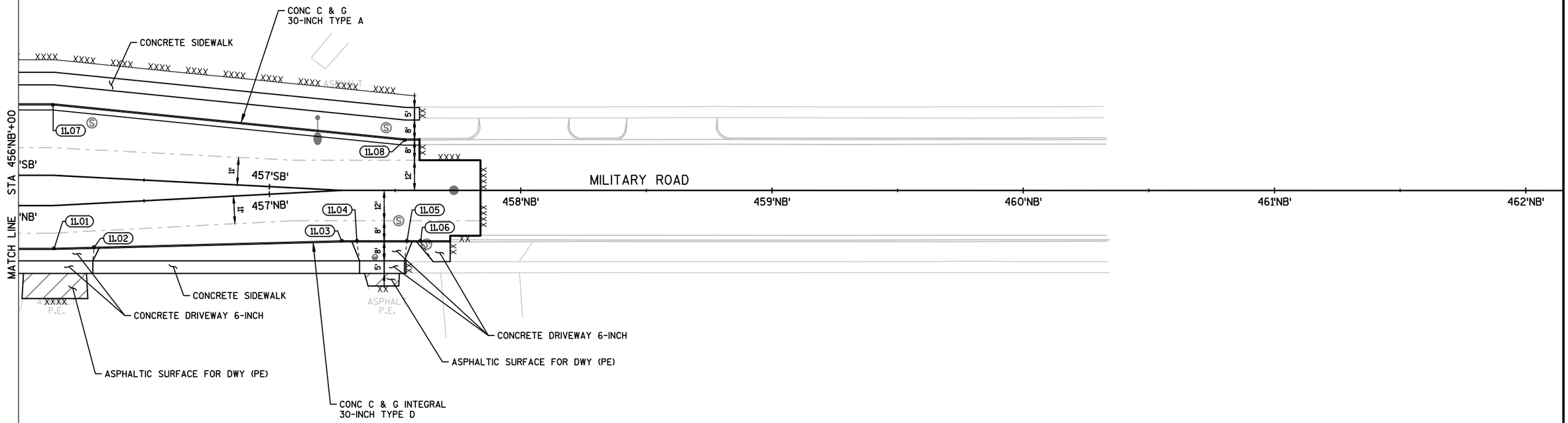
DATA TABLE

NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
10.13	Oak-Park	30+53.05	-16.1'	BEGIN RADIUS
10.14	Oak-Park	30+33.02	-23.8'	CURB RAMP OPENING
10.15	Oak-Park	30+28.02	-29.5'	CURB RAMP OPENING
10.16	Military-NB	455+03.33	18.9'	BEGIN INTEGRAL CURB & GUTTER
10.17	Military-NB	455+13.77	17.0'	END RADIUS
10.18	Military-NB	455+98.98	17.0'	DRIVEWAY OPENING
10.19	Military-SB	450+12.01	-24.0'	CURB RAMP OPENING
10.20	Military-SB	453+01.63	-17.0'	BEGIN TAPER
10.21	Military-SB	453+22.05	-19.0'	END INTEGRAL CURB & GUTTER
10.22	Military-SB	454+14.60	-28.1'	END TAPER BEGIN RADIUS
10.23	Oak-Park	29+57.97	35.6'	CURB RAMP OPENING
10.24	Oak-Park	29+52.97	31.3'	CURB RAMP OPENING

DATA TABLE

NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
10.25	Oak-Park	29+35.94	26.0'	END RADIUS END CURB & GUTTER
10.26	Oak-Park	29+25.94	24.0'	END TAPER
10.27	Oak-Park	29+25.92	-14.0'	END TAPER
10.28	Oak-Park	29+36.05	-16.0'	BEGIN CURB & GUTTER BEGIN RADIUS
10.29	Oak-Park	29+53.02	-21.3'	CURB RAMP OPENING
10.30	Oak-Park	29+58.02	-25.6'	CURB RAMP OPENING
10.31	Military-SB	455+13.61	-28.0'	END RADIUS
10.32	Military-NB	450+23.27	-2.0'	BEGIN RADIUS
10.33	Military-NB	450+28.51	-4.0'	END RADIUS BEGIN RADIUS
10.34	Military-NB	450+53.83	-14.2'	END RADIUS ISLAND NOSE RADIUS
10.35	Military-SB	450+53.44	2.0'	ISLAND NOSE RADIUS
10.36	Military-NB	450+88.86	27.9'	END 10' MULTI-USE PATH BEGIN 5' SIDEWALK

DATA TABLE				
NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
11.01	Military-NB	456+13.70	17.0'	BEGIN TAPER
11.02	Military-NB	456+29.17	17.4'	DRIVEWAY OPENING
11.03	Military-NB	457+27.81	20.0'	END TAPER
11.04	Military-NB	457+34.88	20.0'	DRIVEWAY OPENING
11.05	Military-NB	457+54.74	20.0'	DRIVEWAY OPENING
11.06	Military-NB	457+60.16	20.0'	DRIVEWAY OPENING
11.07	Military-SB	456+13.70	-28.0'	BEGIN TAPER
11.08	Military-NB	457+53.86	-20.0'	END TAPER



NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

LEGEND

- CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CONCRETE CURB RAMP TYPE 1
- CONCRETE CURB RAMP TYPE 2
- CONCRETE CURB RAMP TYPE 3
- CONCRETE CURB RAMP TYPE 4B1
- CONCRETE CURB RAMP TYPE 5
- PROPOSED CATCH BASIN/ INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED LIGHT POLE
- DATA POINT

2

NOTES

ALL CURB RADII ARE TO FACE OF CURB.

ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB OR JOINT LINE.

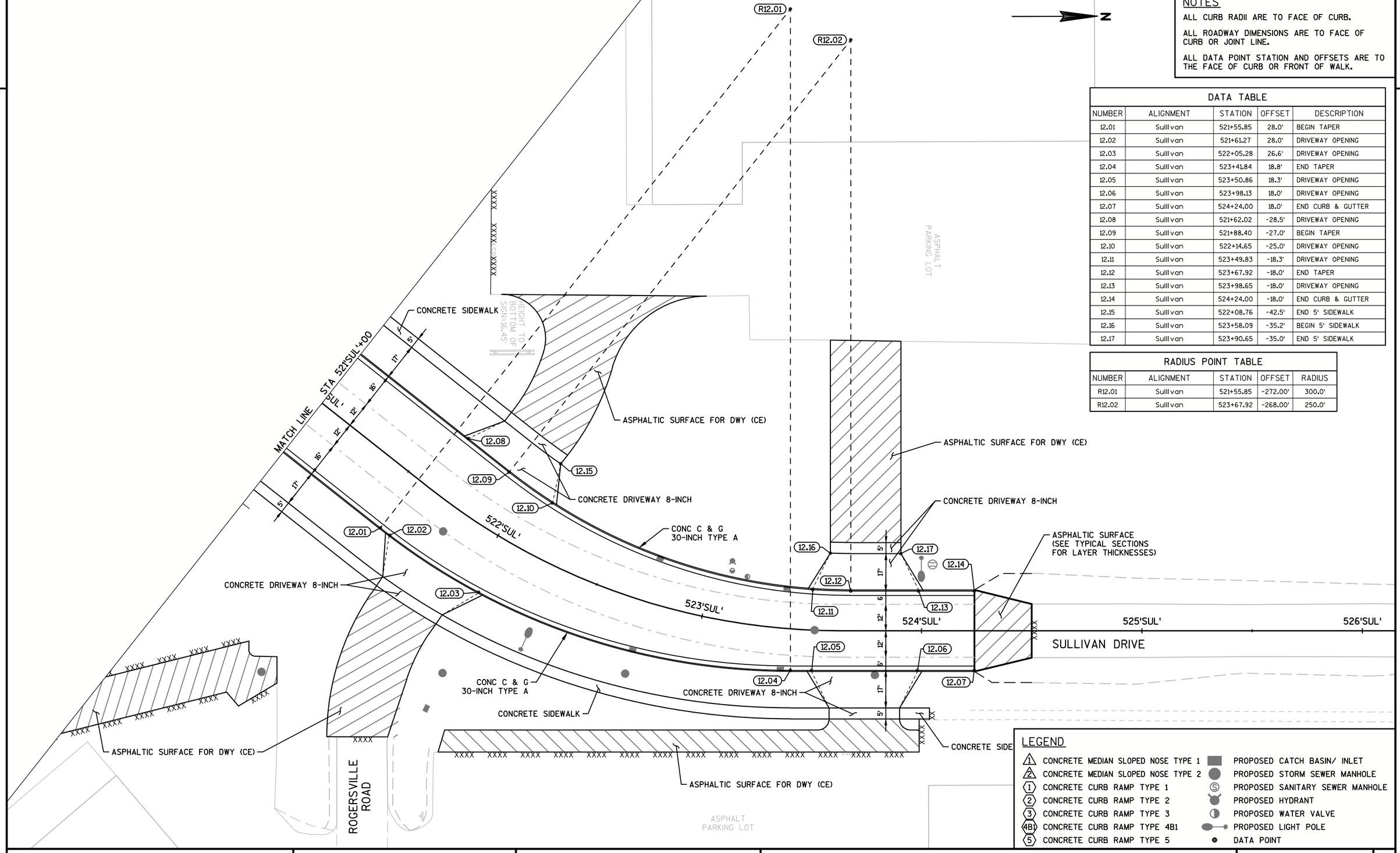
ALL DATA POINT STATION AND OFFSETS ARE TO THE FACE OF CURB OR FRONT OF WALK.

DATA TABLE

NUMBER	ALIGNMENT	STATION	OFFSET	DESCRIPTION
12.01	Sulli van	521+55.85	28.0'	BEGIN TAPER
12.02	Sulli van	521+61.27	28.0'	DRIVEWAY OPENING
12.03	Sulli van	522+05.28	26.6'	DRIVEWAY OPENING
12.04	Sulli van	523+41.84	18.8'	END TAPER
12.05	Sulli van	523+50.86	18.3'	DRIVEWAY OPENING
12.06	Sulli van	523+98.13	18.0'	DRIVEWAY OPENING
12.07	Sulli van	524+24.00	18.0'	END CURB & GUTTER
12.08	Sulli van	521+62.02	-28.5'	DRIVEWAY OPENING
12.09	Sulli van	521+88.40	-27.0'	BEGIN TAPER
12.10	Sulli van	522+14.65	-25.0'	DRIVEWAY OPENING
12.11	Sulli van	523+49.83	-18.3'	DRIVEWAY OPENING
12.12	Sulli van	523+67.92	-18.0'	END TAPER
12.13	Sulli van	523+98.65	-18.0'	DRIVEWAY OPENING
12.14	Sulli van	524+24.00	-18.0'	END CURB & GUTTER
12.15	Sulli van	522+08.76	-42.5'	END 5' SIDEWALK
12.16	Sulli van	523+58.09	-35.2'	BEGIN 5' SIDEWALK
12.17	Sulli van	523+90.65	-35.0'	END 5' SIDEWALK

RADIUS POINT TABLE

NUMBER	ALIGNMENT	STATION	OFFSET	RADIUS
R12.01	Sulli van	521+55.85	-272.00'	300.0'
R12.02	Sulli van	523+67.92	-268.00'	250.0'



LEGEND

- CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CONCRETE CURB RAMP TYPE 1
- CONCRETE CURB RAMP TYPE 2
- CONCRETE CURB RAMP TYPE 3
- CONCRETE CURB RAMP TYPE 4B1
- CONCRETE CURB RAMP TYPE 5
- PROPOSED CATCH BASIN/ INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED LIGHT POLE
- DATA POINT

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN DETAILS: SULLIVAN DRIVE	SHEET 49	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021203-PD.DWG
LAYOUT NAME - 49860022-021203-PD-02-SULLIVAN
PLOT DATE : 9/1/2016 3:26 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

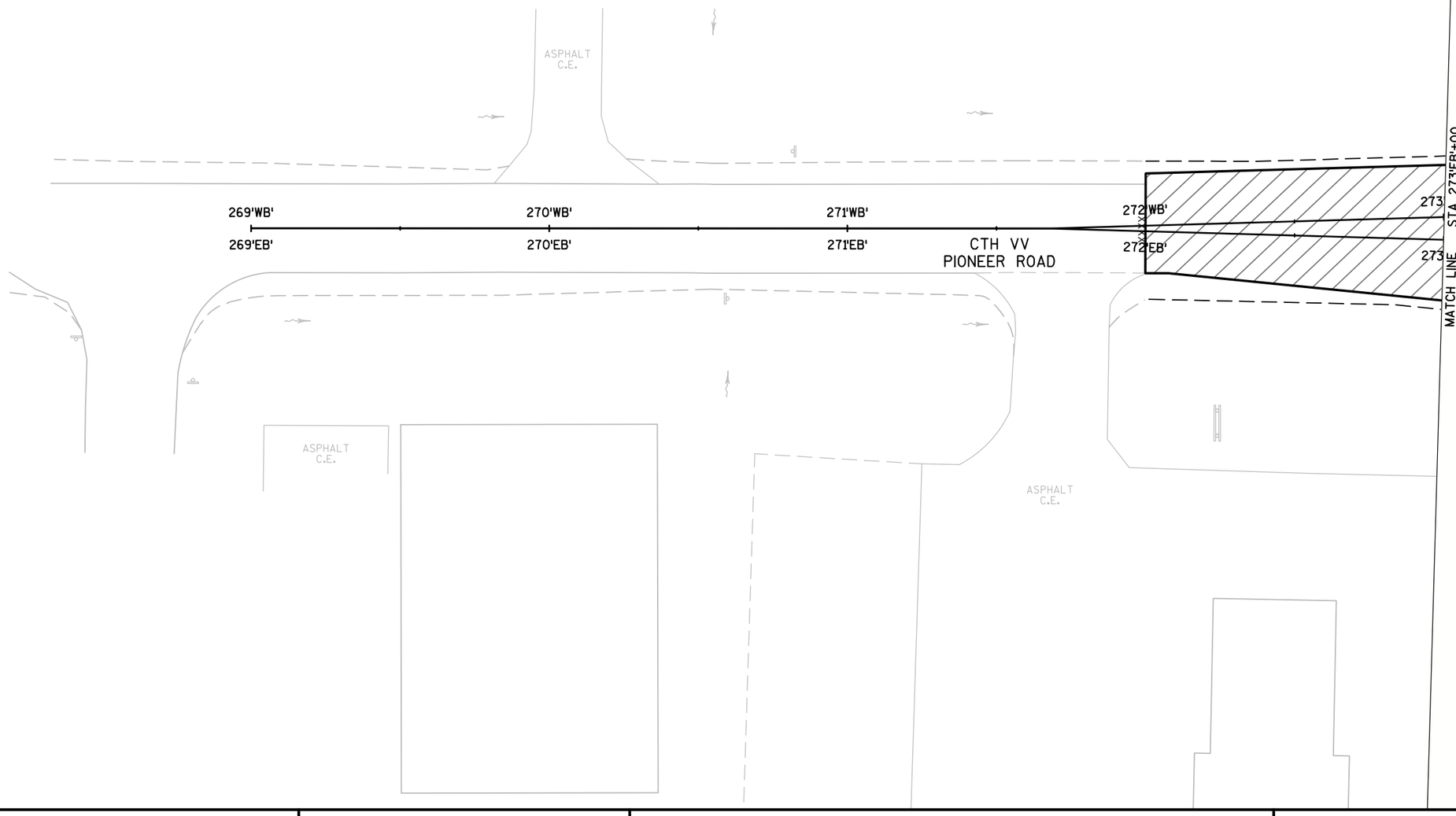
2

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

N



LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: CTH VV	SHEET 50	E

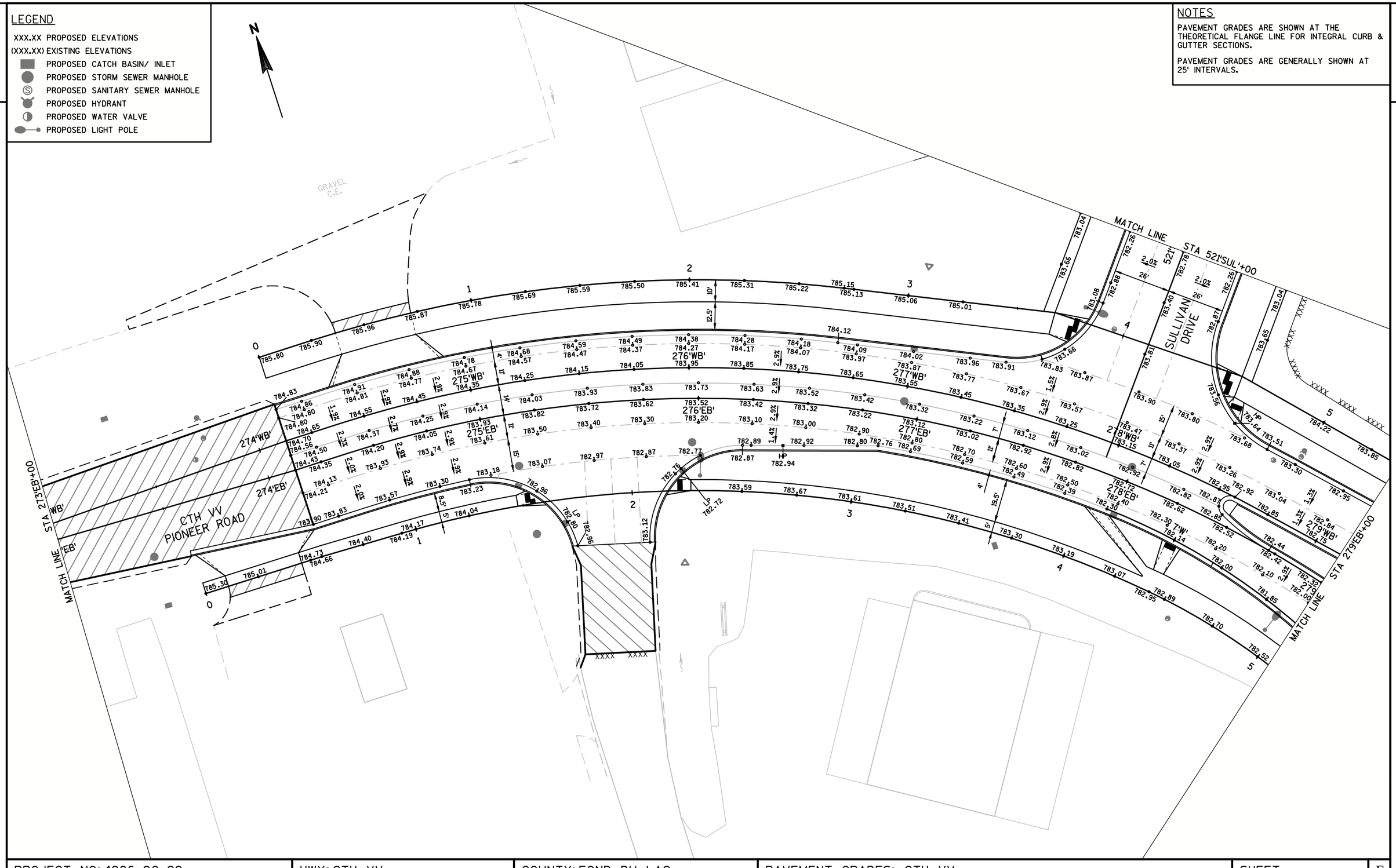
LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

NOTES

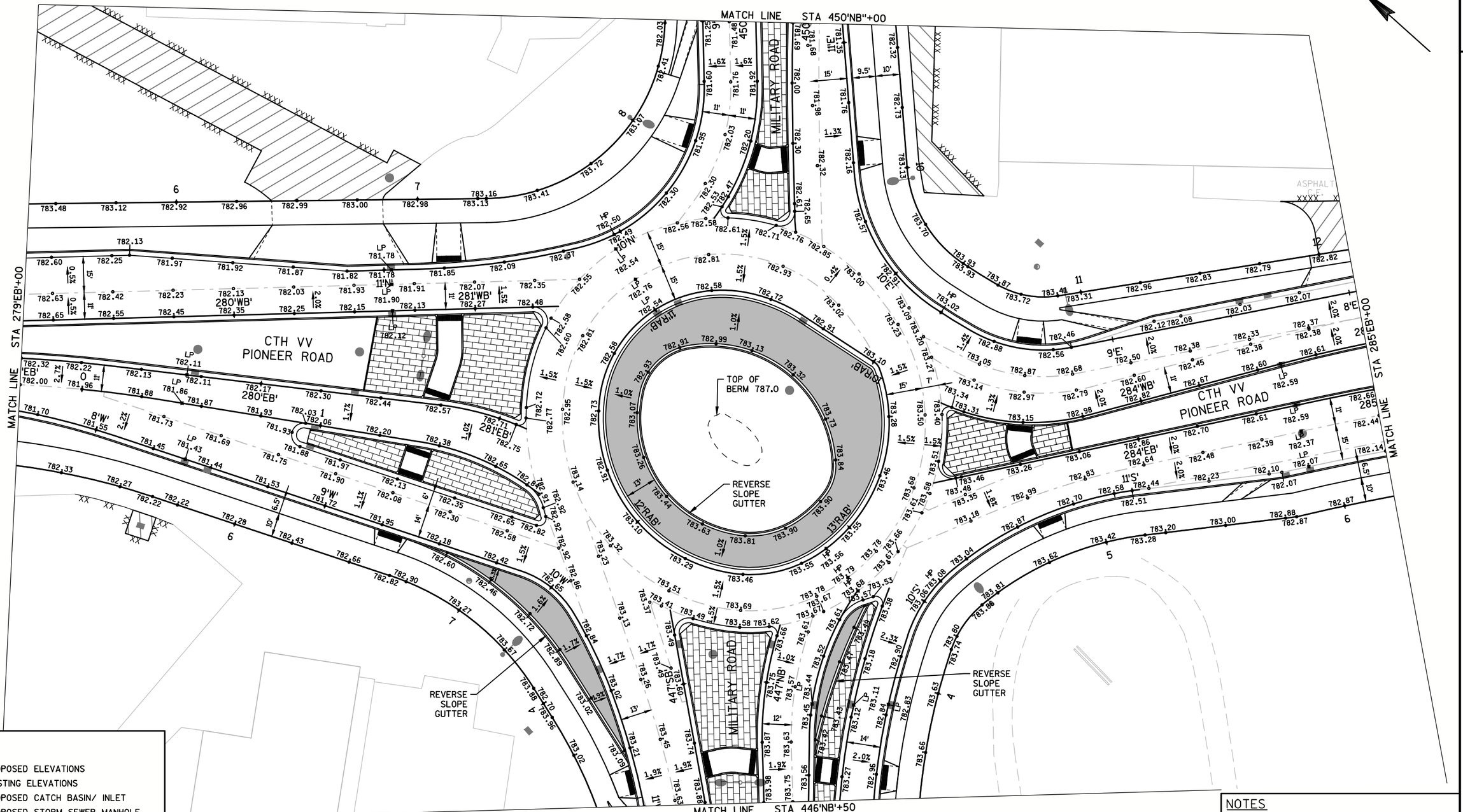
PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: CTH VV	SHEET 51	E

2



LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: CTH VV	SHEET 52	E

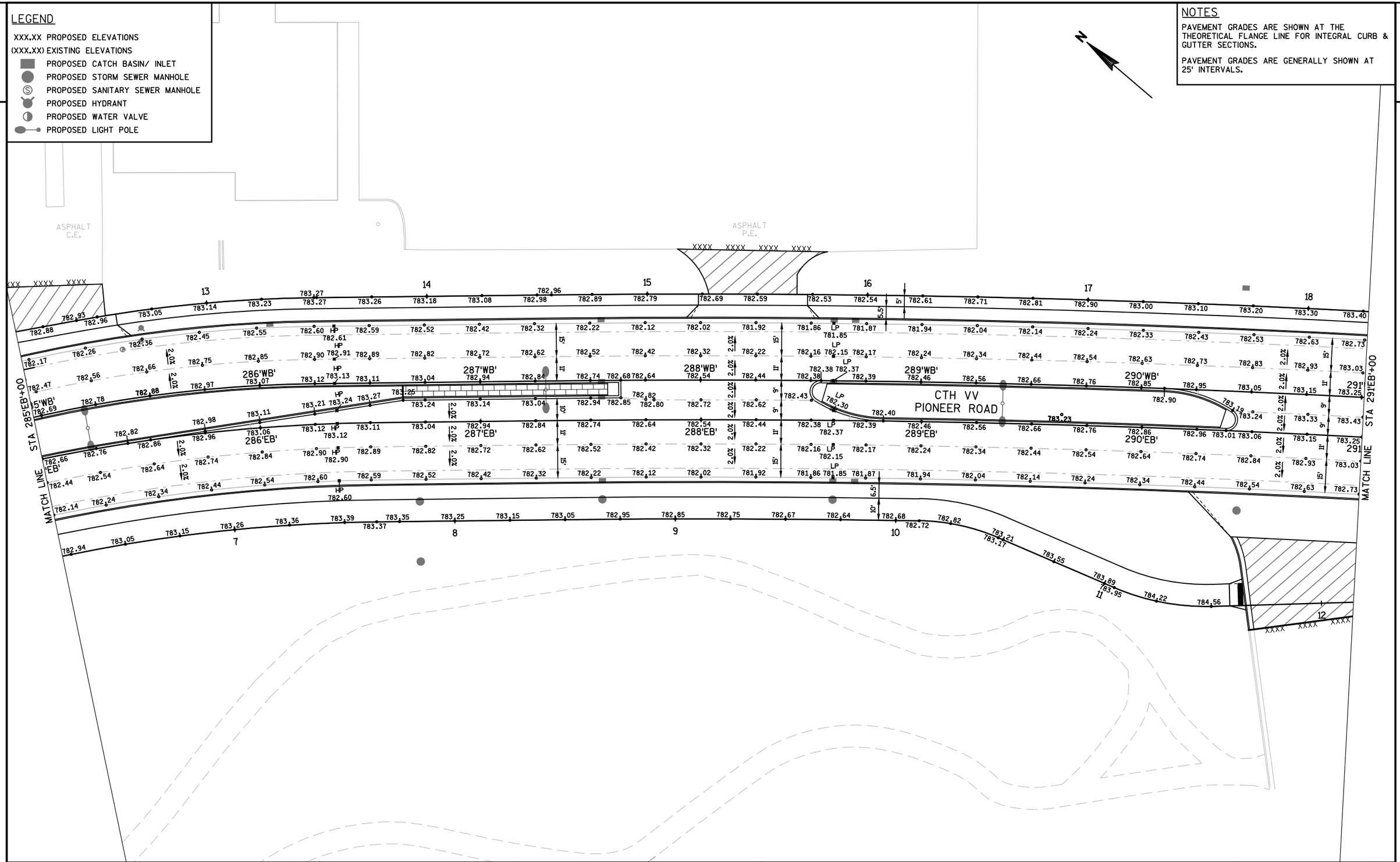
LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: CTH VV	SHEET 53	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021211-PG.DWG
LAYOUT NAME - 49860022-021211-PG-04-CTH VV
PLOT DATE : 7/29/2016 3:32 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

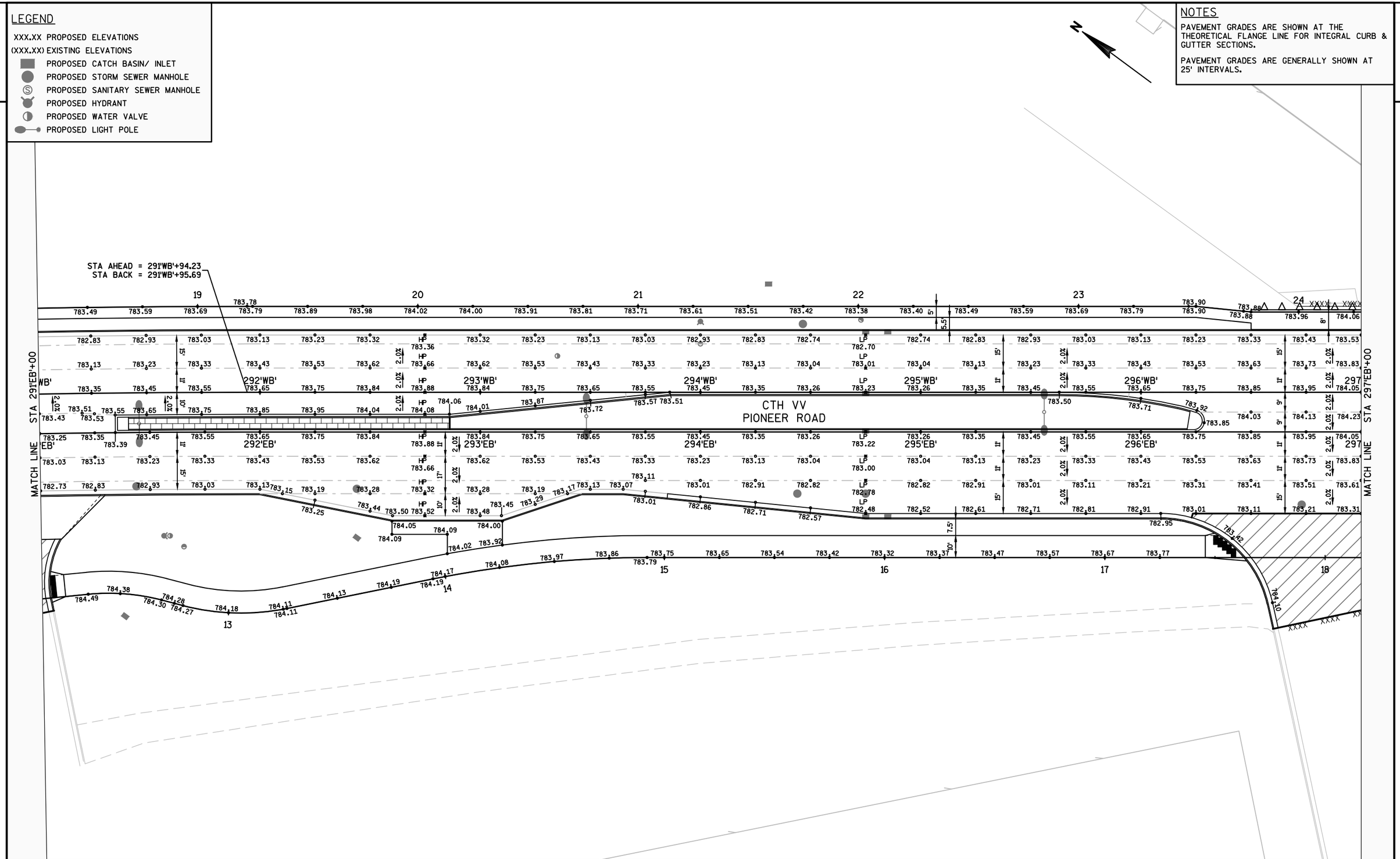
LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: CTH VV	SHEET 54	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021211-PG.DWG
LAYOUT NAME - 49860022-021211-PG-05-CTH VV
PLOT DATE : 9/15/2016 2:06 PM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

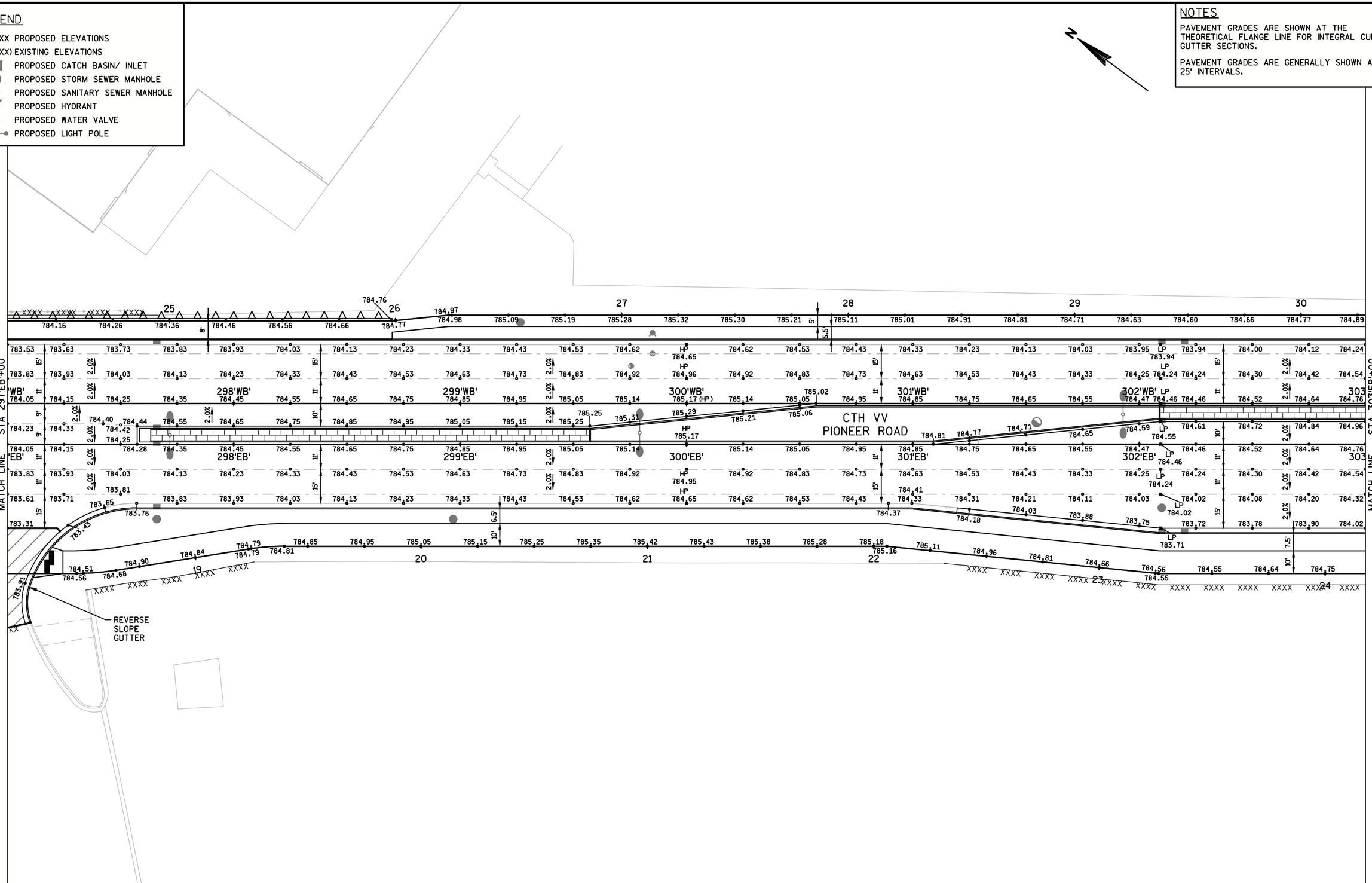
LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: CTH VV	SHEET 55	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021211-PG.DWG
LAYOUT NAME - 49860022-021211-PG-06-CTH VV
PLOT DATE : 7/29/2016 3:32 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

MERCURY MARINE ENTRANCE

CTH VV PIONEER ROAD

REVERSE SLOPE GUTTER

LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

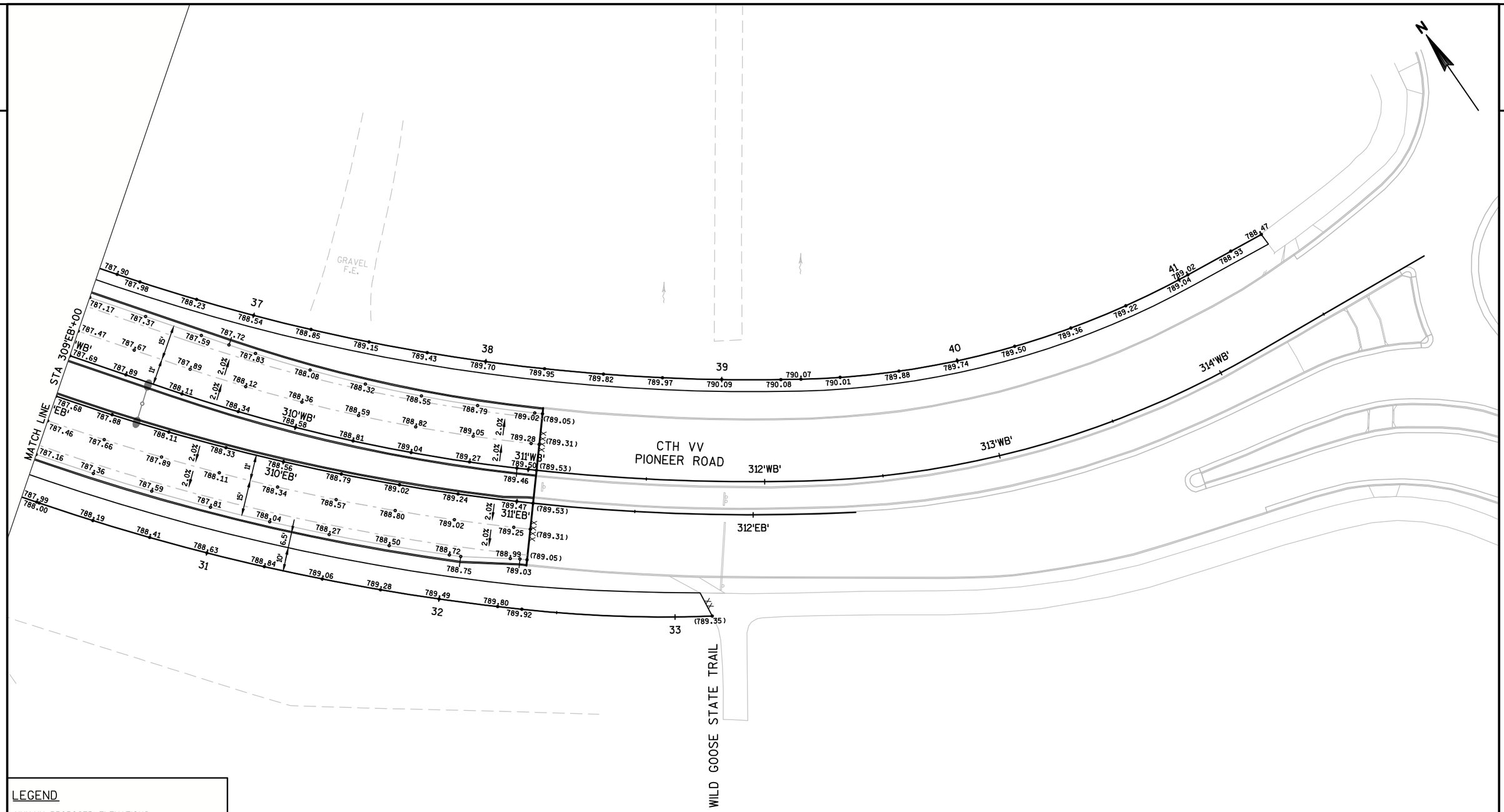
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: CTH VV	SHEET 56	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021211-PG.DWG
LAYOUT NAME - 49860022-021211-PG-07-CTH VV

PLOT DATE : 8/1/2016 10:00 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

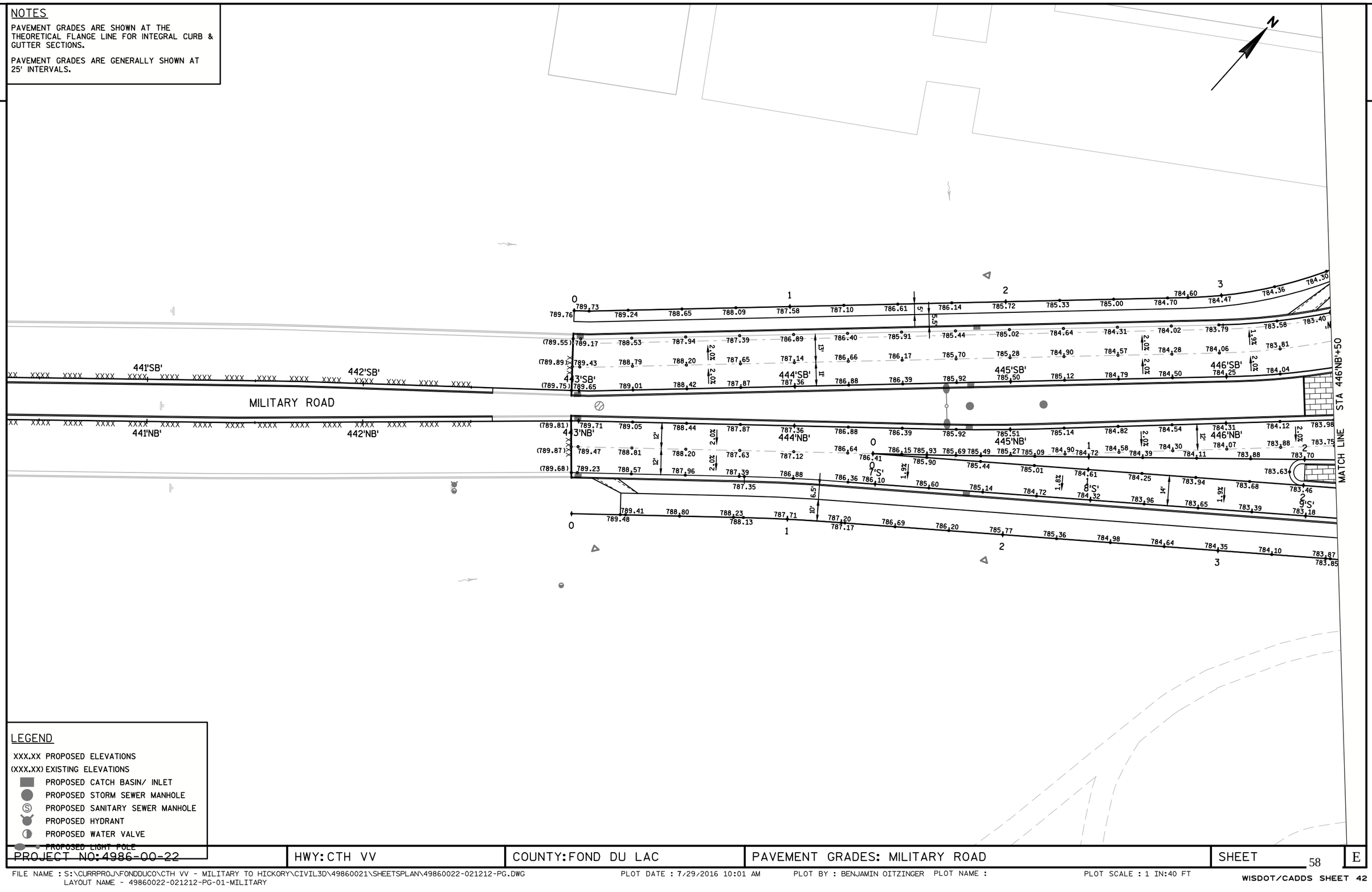
PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: CTH VV	SHEET 57	E

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.



LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: MILITARY ROAD	SHEET 58	E

LEGEND

XXX.XX PROPOSED ELEVATIONS
(XXX.XX) EXISTING ELEVATIONS
PROPOSED CATCH BASIN/ INLET
PROPOSED STORM SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE
PROPOSED HYDRANT
PROPOSED WATER VALVE
PROPOSED LIGHT POLE

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

ROGERSVILLE ROAD

MILITARY ROAD

OAK PARK AVENUE

STA 450'NB'+00

STA 456'NB'+00

MATCH LINE

MATCH LINE

ASPHALT C.E.

CONCRETE C.E.

CONCRETE P.E.

GRAVEL C.E.

ASPHALT P.E.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: MILITARY ROAD	SHEET 59 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021212-PG.DWG
LAYOUT NAME - 49860022-021212-PG-03-MILITARY

PLOT DATE : 7/29/2016 10:01 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

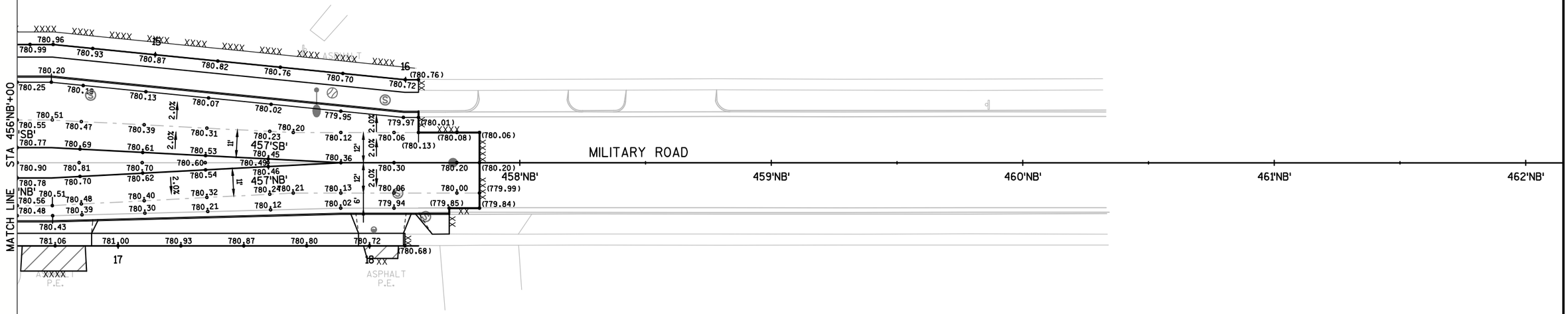
WISDOT/CADDS SHEET 42

2

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.



LEGEND

XXX.XX PROPOSED ELEVATIONS

(XXX.XX) EXISTING ELEVATIONS

PROPOSED CATCH BASIN/ INLET

PROPOSED STORM SEWER MANHOLE

PROPOSED SANITARY SEWER MANHOLE

PROPOSED HYDRANT

PROPOSED WATER VALVE

PROPOSED LIGHT POLE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: MILITARY ROAD	SHEET 60 E

NOTES

PAVEMENT GRADES ARE SHOWN AT THE THEORETICAL FLANGE LINE FOR INTEGRAL CURB & GUTTER SECTIONS.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

N

MATCH LINE

STA 521'SUL'+00

522'SUL'

523'SUL'

524'SUL'

525'SUL'

526'SUL'

527'SUL'

SULLIVAN DRIVE

ROGERSVILLE ROAD

ASPHALT PARKING LOT

ASPHALT C.E.

HEIGHT TO BOTTOM OF SIGN=16'-4"

LEGEND

XXX.XX PROPOSED ELEVATIONS

(XXX.XX) EXISTING ELEVATIONS

PROPOSED CATCH BASIN/ INLET

PROPOSED STORM SEWER MANHOLE

PROPOSED SANITARY SEWER MANHOLE

PROPOSED HYDRANT

PROPOSED WATER VALVE

PROPOSED LIGHT POLE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT GRADES: SULLIVAN DRIVE	SHEET 61	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-021213-PG.DWG
LAYOUT NAME - 49860022-021213-PG-02-SULLIVAN

PLOT DATE : 9/1/2016 3:35 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

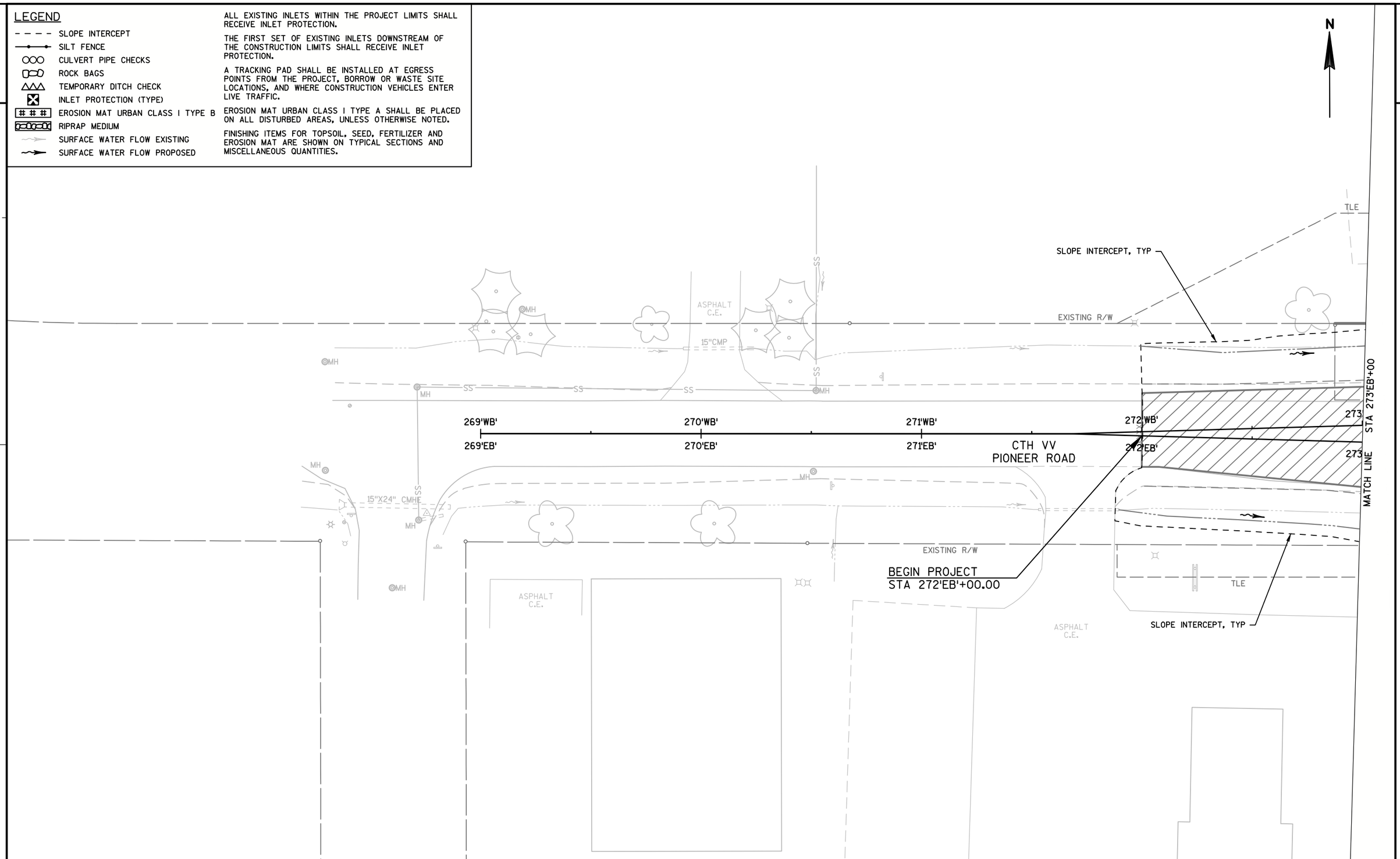
ALL EXISTING INLETS WITHIN THE PROJECT LIMITS SHALL RECEIVE INLET PROTECTION.

THE FIRST SET OF EXISTING INLETS DOWNSTREAM OF THE CONSTRUCTION LIMITS SHALL RECEIVE INLET PROTECTION.

A TRACKING PAD SHALL BE INSTALLED AT EGRESS POINTS FROM THE PROJECT, BORROW OR WASTE SITE LOCATIONS, AND WHERE CONSTRUCTION VEHICLES ENTER LIVE TRAFFIC.

EROSION MAT URBAN CLASS I TYPE A SHALL BE PLACED ON ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED.

FINISHING ITEMS FOR TOPSOIL, SEED, FERTILIZER AND EROSION MAT ARE SHOWN ON TYPICAL SECTIONS AND MISCELLANEOUS QUANTITIES.



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: CTH VV	SHEET 62	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022001-ECT.DWG
LAYOUT NAME - 49860022-022001-ECT-01-CTH VV

PLOT DATE : 7/29/2016 3:35 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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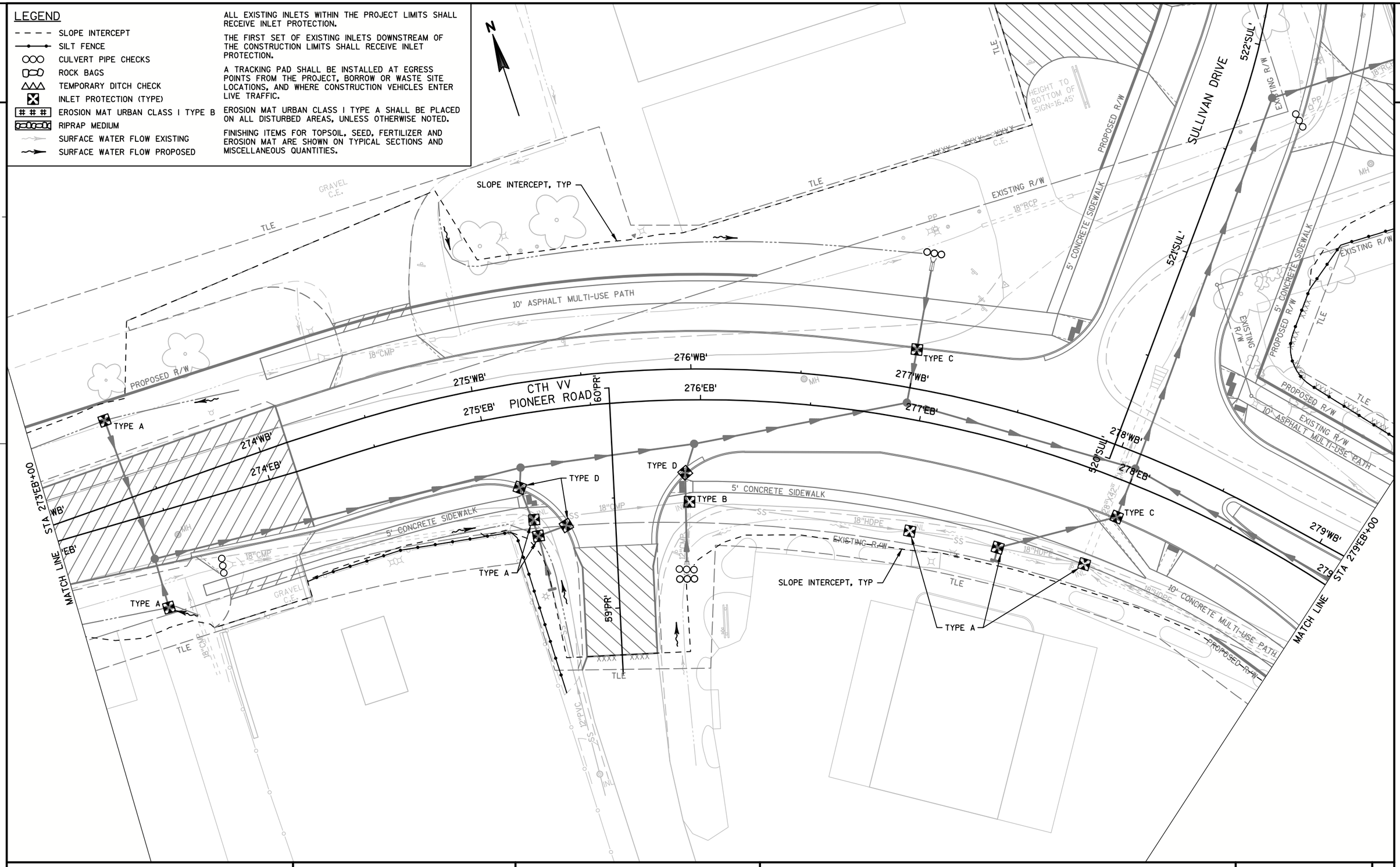
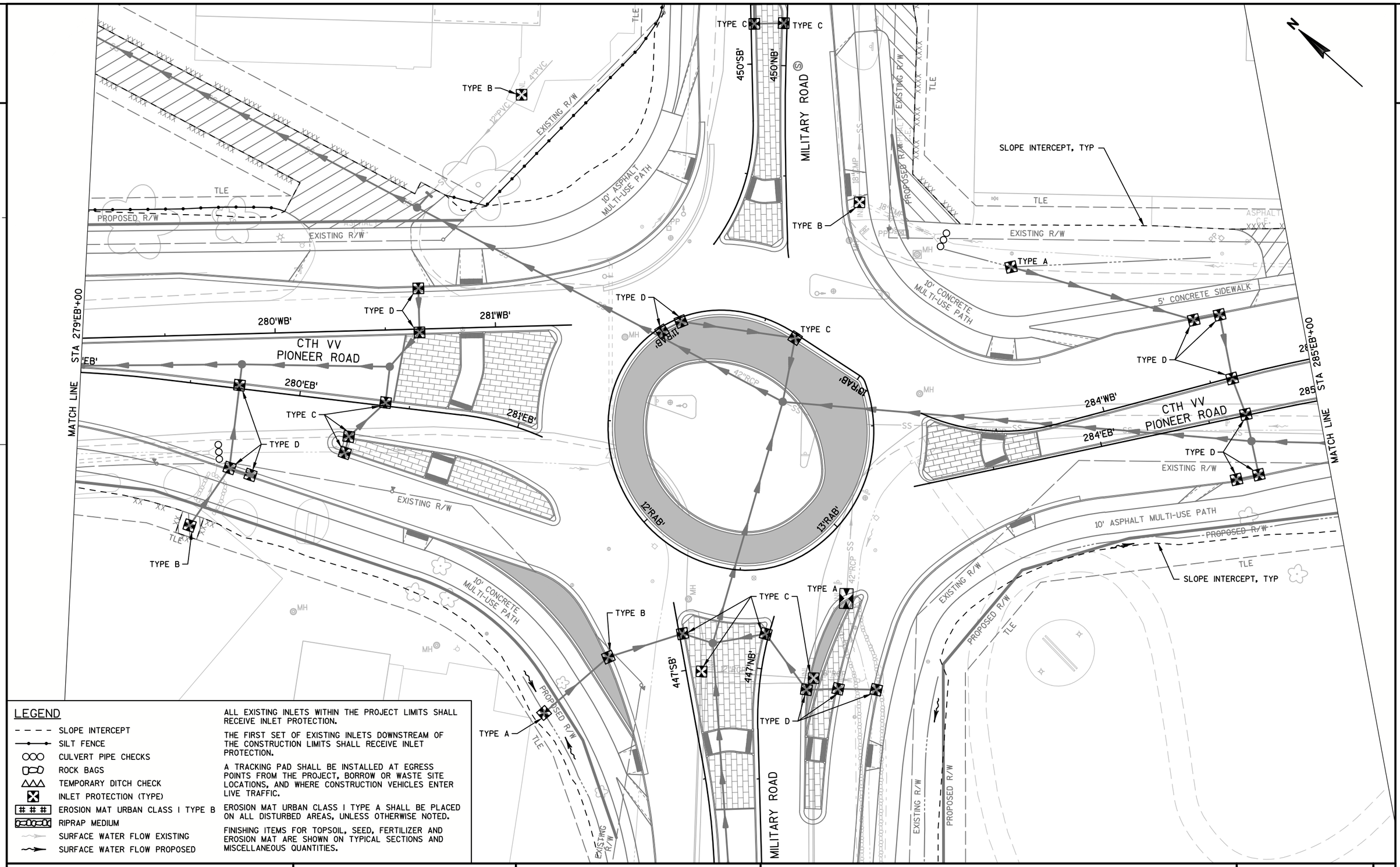


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: CTH VV	SHEET 63	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022001-ECT.DWG
LAYOUT NAME - 49860022-022001-ECT-02-CTH VV
PLOT DATE : 9/1/2016 3:43 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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FINISHING ITEMS FOR TOPSOIL, SEED, FERTILIZER AND EROSION MAT ARE SHOWN ON TYPICAL SECTIONS AND MISCELLANEOUS QUANTITIES.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: CTH VV	SHEET 64	E

2

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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N

ASPHALT C.E.

ASPHALT P.E.

TLE

WETLAND LIMITS, TYP

SLOPE INTERCEPT, TYP

EXISTING R/W

5' CONCRETE SIDEWALK

18"CMP

TYPE A

TYPE C

TYPE D

TYPE B

286'WB'

287'WB'

288'WB'

289'WB'

290'WB'

291'WB'

286'EB'

287'EB'

288'EB'

289'EB'

290'EB'

291'EB'

CTH VV
PIONEER ROAD

STA 285'EB'+00

STA 291'EB'+00

MATCH LINE

MATCH LINE

MH

SS

42"RCP

30"RCP

10' ASPHALT MULTI-USE PATH

PROPOSED R/W

EXISTING R/W

PLE

TLE

SLOPE INTERCEPT, TYP

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: CTH VV	SHEET 65	E

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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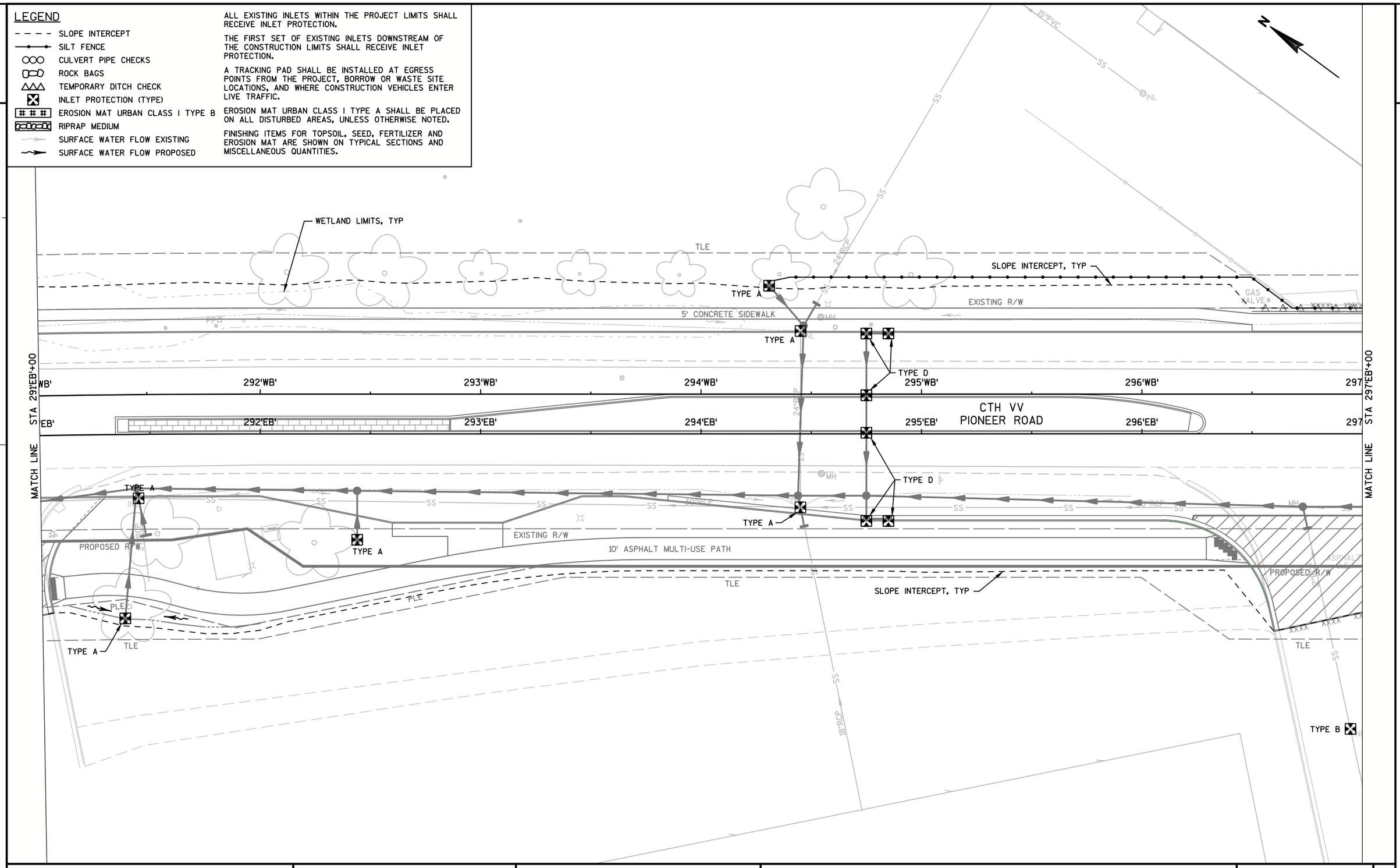

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: CTH VV	SHEET 66	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022001-ECT.DWG
LAYOUT NAME - 49860022-022001-ECT-05-CTH VV
PLOT DATE : 9/15/2016 2:16 PM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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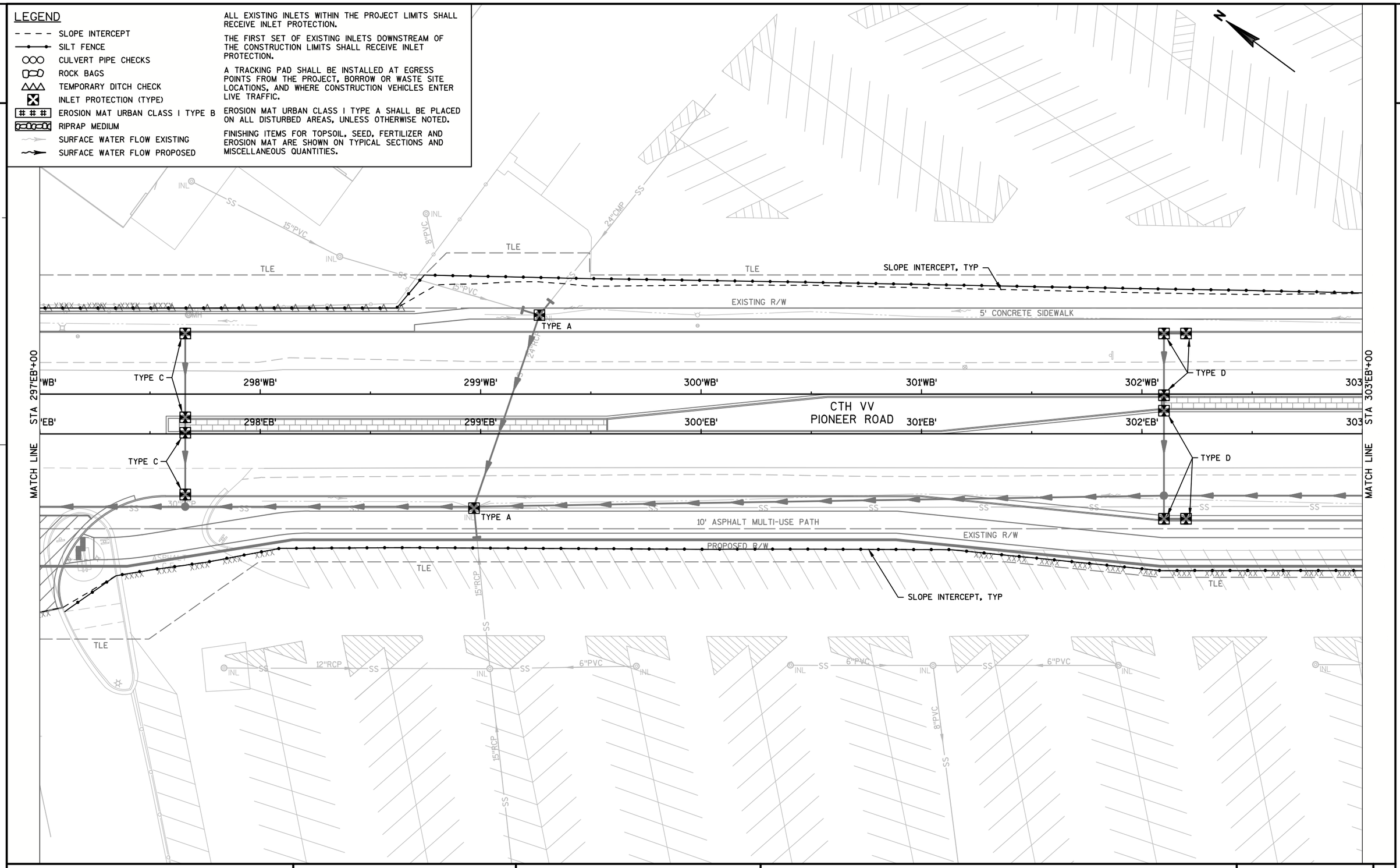

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: CTH VV	SHEET 67	E

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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N

MERCURY MARINE ENTRANCE

STRIPPING (TYP.)

TLE

PROPOSED R/W

EXISTING R/W

5' CONCRETE SIDEWALK

SLOPE INTERCEPT, TYP

WETLAND LIMITS, TYP

12" W.M.

STA 303'EB'+00

303'WB'

304'WB'

305'WB'

306'WB'

307'WB'

308'WB'

309'EB'+00

304'EB'

305'EB'

306'EB'

307'EB'

308'EB'

CTH VV
PIONEER ROAD

TYPE C

MATCH LINE

15"RCP

MH

SS

10' ASPHALT MULTI-USE PATH

ASPHALT C.E.

TYPE A

TYPE B

6"PVC

15"PVC

12"RCP

24"RCP

#W6142

MERCURY MARINE ENTRANCE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: CTH VV	SHEET 68	E

2

N

EXISTING ROCK DITCH CHECK

WETLAND LIMITS, TYP

SLOPE INTERCEPT, TYP

TLE

GRAVEL F.E.

PLE

TYPE C

STA 309'EB'+00

MATCH LINE

'WB'

'EB'

5' CONCRETE SIDEWALK

EXISTING R/W

314'WB'

310'WB'

310'EB'

311'WB'

CTH VV
PIONEER ROAD

313'WB'

312'WB'

311'EB'

312'EB'

CPRCHE

34"X53"

TYPE C

EXISTING R/W

10' ASPHALT MULTI-USE PATH

SLOPE INTERCEPT, TYP

TLE

EXISTING R/W

WILD GOOSE STATE TRAIL

END PROJECT
STA 311'EB'+06.90

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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FINISHING ITEMS FOR TOPSOIL, SEED, FERTILIZER AND EROSION MAT ARE SHOWN ON TYPICAL SECTIONS AND MISCELLANEOUS QUANTITIES.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: CTH VV	SHEET 69	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022001-ECT.DWG
LAYOUT NAME - 49860022-022001-ECT-08-CTH VV
PLOT DATE : 7/29/2016 3:35 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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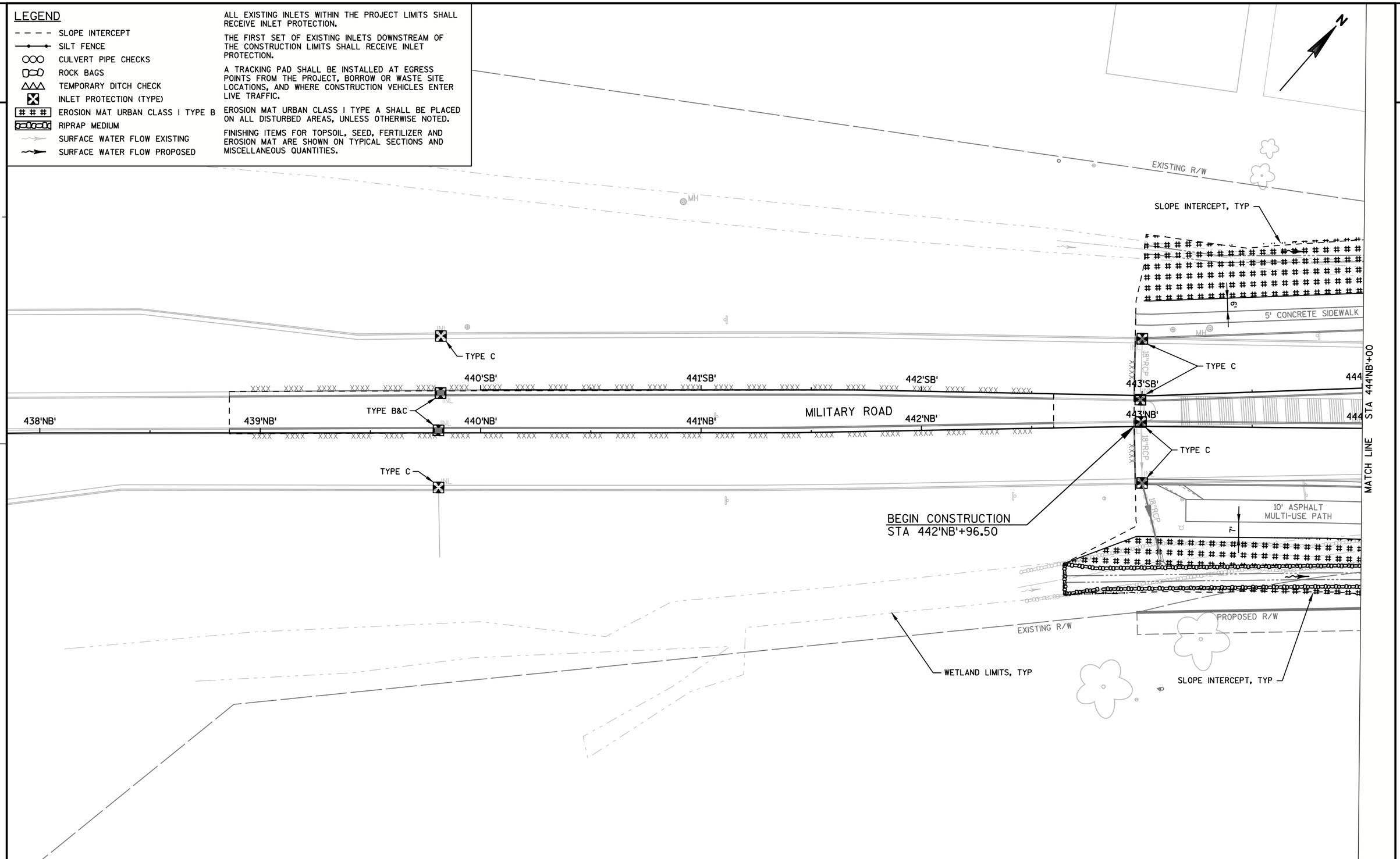


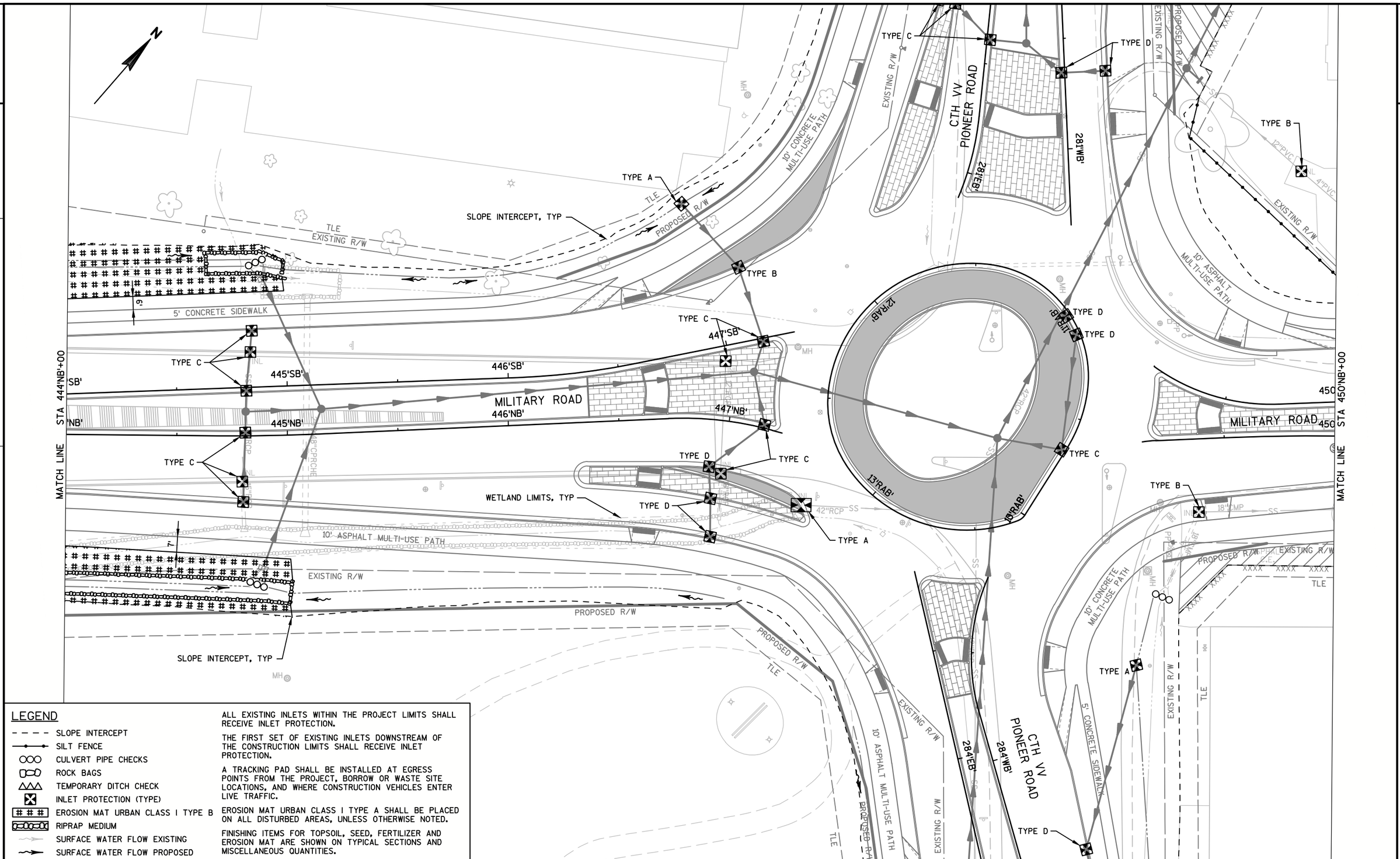
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: MILITARY ROAD	SHEET 70	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022002-ECT.DWG
LAYOUT NAME - 49860022-022002-ECT-01-MILITARY

PLOT DATE : 7/29/2016 8:43 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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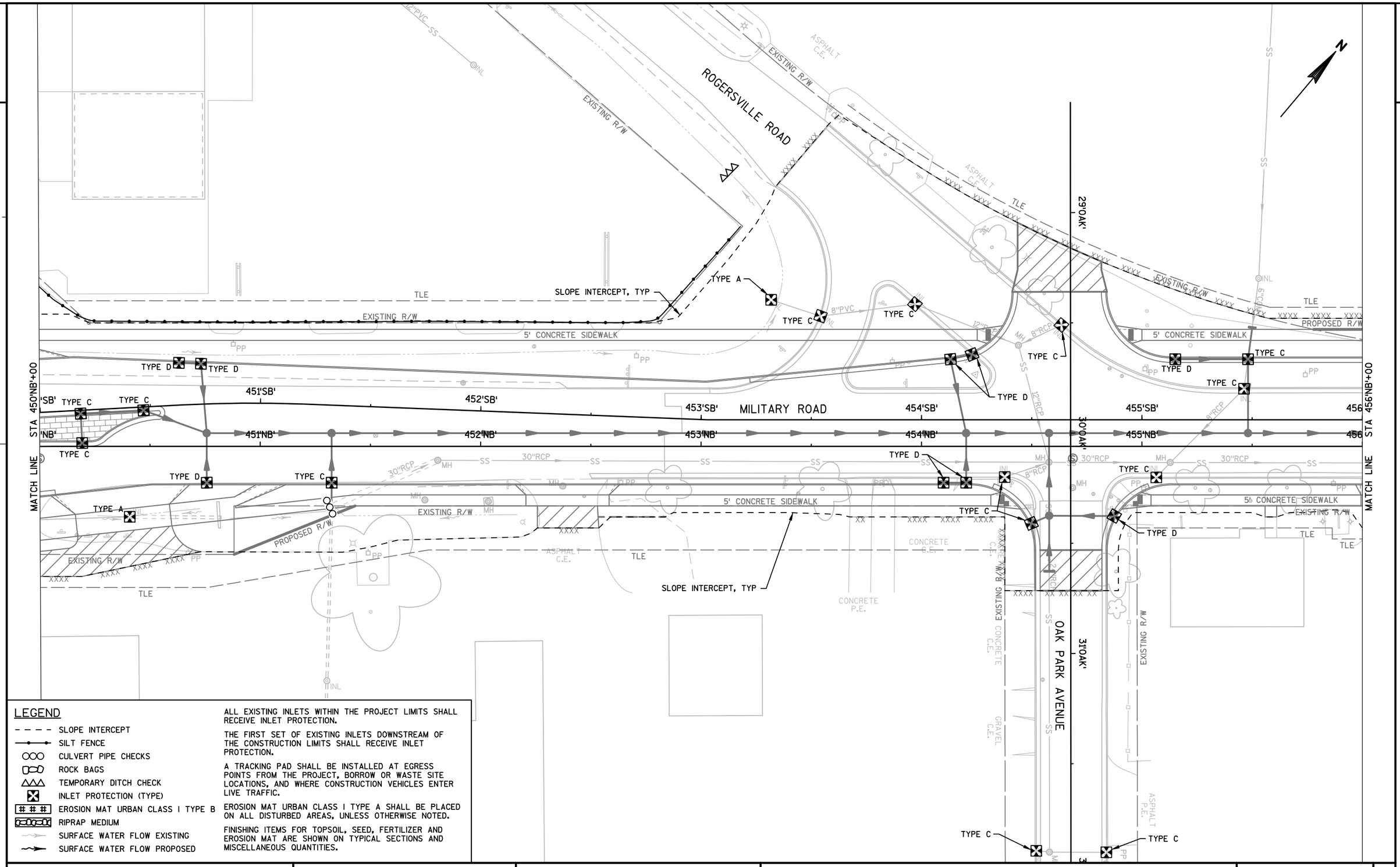
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: MILITARY ROAD	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022002-ECT.DWG
LAYOUT NAME - 49860022-022002-ECT-02-MILITARY
PLOT DATE : 7/29/2016 8:43 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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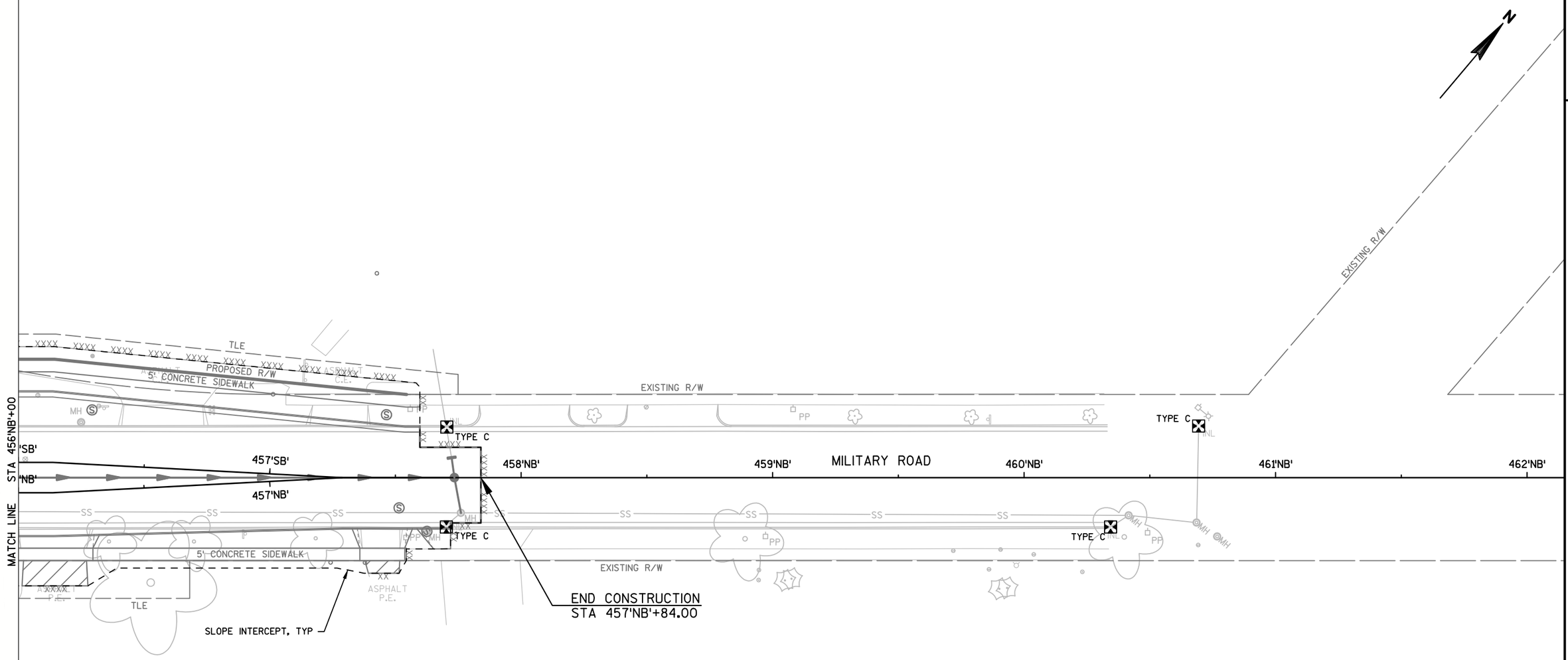
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: MILITARY ROAD	SHEET 72	E

2



LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

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THE FIRST SET OF EXISTING INLETS DOWNSTREAM OF THE CONSTRUCTION LIMITS SHALL RECEIVE INLET PROTECTION.

A TRACKING PAD SHALL BE INSTALLED AT EGRESS POINTS FROM THE PROJECT, BORROW OR WASTE SITE LOCATIONS, AND WHERE CONSTRUCTION VEHICLES ENTER LIVE TRAFFIC.

EROSION MAT URBAN CLASS I TYPE A SHALL BE PLACED ON ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED.

FINISHING ITEMS FOR TOPSOIL, SEED, FERTILIZER AND EROSION MAT ARE SHOWN ON TYPICAL SECTIONS AND MISCELLANEOUS QUANTITIES.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: MILITARY ROAD	SHEET 73	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022002-ECT.DWG
LAYOUT NAME - 49860022-022002-ECT-04-MILITARY
PLOT DATE : 7/29/2016 8:43 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS
- TEMPORARY DITCH CHECK
- INLET PROTECTION (TYPE)
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW EXISTING
- SURFACE WATER FLOW PROPOSED

ALL EXISTING INLETS WITHIN THE PROJECT LIMITS SHALL RECEIVE INLET PROTECTION.

THE FIRST SET OF EXISTING INLETS DOWNSTREAM OF THE CONSTRUCTION LIMITS SHALL RECEIVE INLET PROTECTION.

A TRACKING PAD SHALL BE INSTALLED AT EGRESS POINTS FROM THE PROJECT, BORROW OR WASTE SITE LOCATIONS, AND WHERE CONSTRUCTION VEHICLES ENTER LIVE TRAFFIC.

EROSION MAT URBAN CLASS I TYPE A SHALL BE PLACED ON ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED.

FINISHING ITEMS FOR TOPSOIL, SEED, FERTILIZER AND EROSION MAT ARE SHOWN ON TYPICAL SECTIONS AND MISCELLANEOUS QUANTITIES.

N

TYPE A
TYPE C
TYPE D
TYPE B
TYPE C
TYPE C
TYPE D
TYPE D
TYPE A

C'TH VV
PIONEER ROAD

ROGERSVILLE
ROAD

SULLIVAN DRIVE

EXISTING R/W
PROPOSED R/W
TLE
5' CONCRETE SIDEWALK
10' CONCRETE MULTI-USE PATH
10' ASPHALT MULTI-USE PATH
18"RCP
42"RCP
28"X42"CMPA
15"CMP
6"PVC
8" SS LAT
ASPHALT PARKING LOT
GATE
SLOPE INTERCEPT, TYP

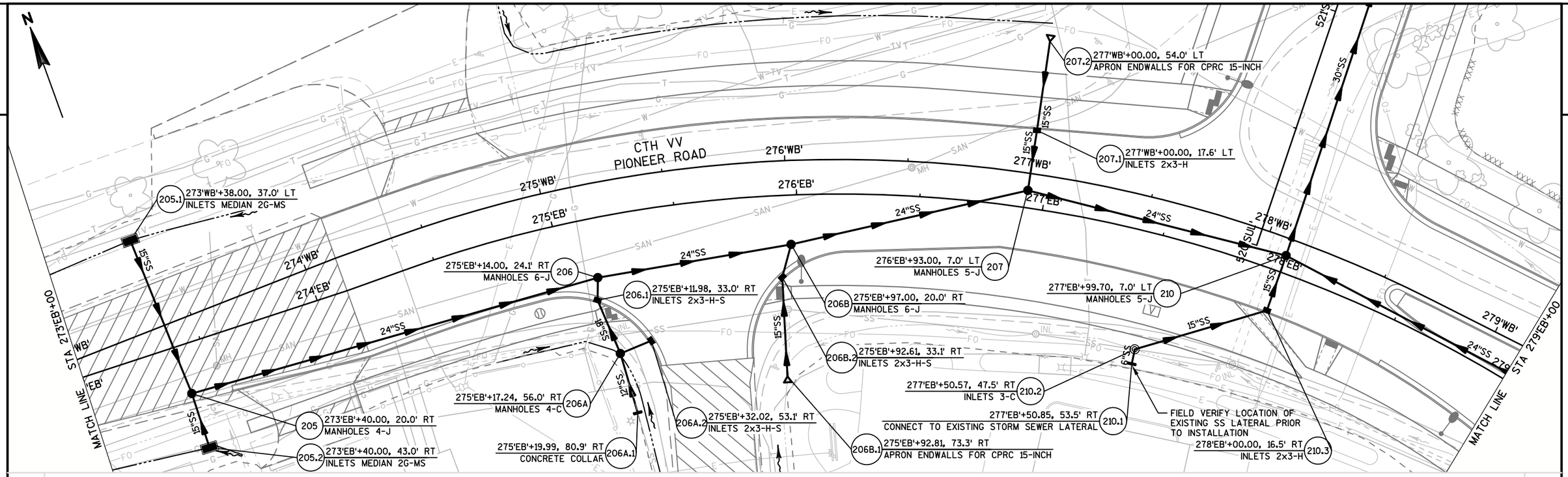
279'EB'
279'WB'
280'WB'
278'EB'
278'WB'
277'EB'
277'WB'
276'SUL'
521'SUL'
522'SUL'
523'SUL'
524'SUL'
525'SUL'

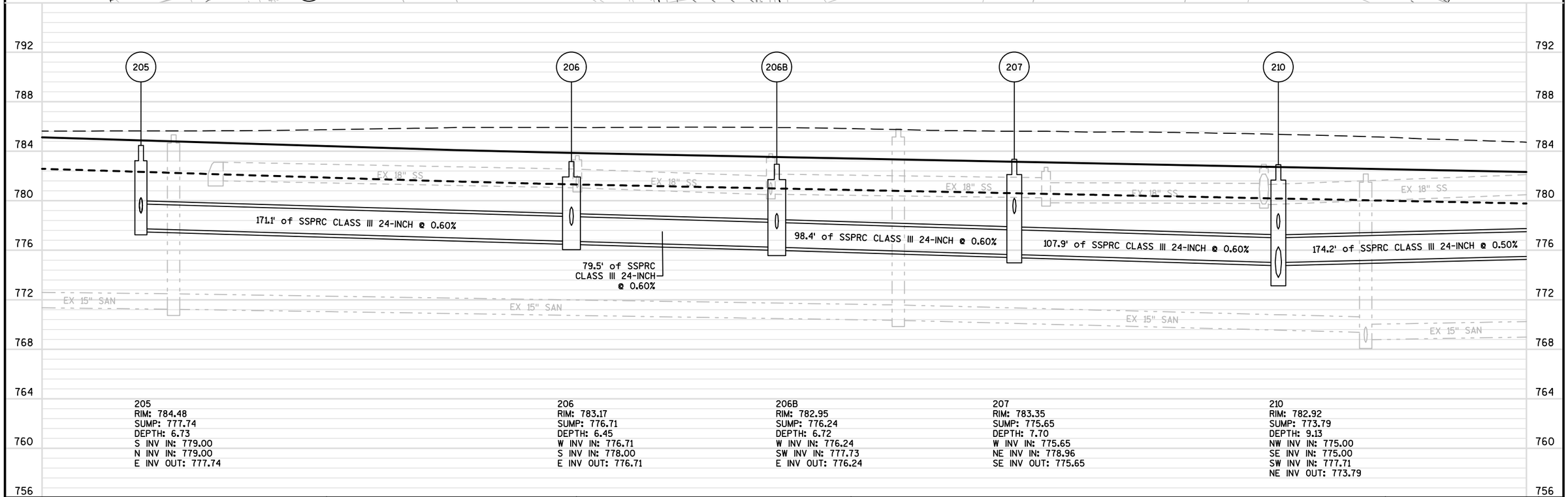
END CONSTRUCTION
STA 524'SUL'+50.00

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	EROSION CONTROL PLAN: SULLIVAN DRIVE	SHEET 74	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022003-ECT.DWG
LAYOUT NAME - 49860022-022003-ECT-01-SULLIVAN
PLOT DATE : 9/1/2016 3:52 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





205
RIM: 784.48
SUMP: 777.74
DEPTH: 6.73
S INV IN: 779.00
N INV IN: 779.00
E INV OUT: 777.74

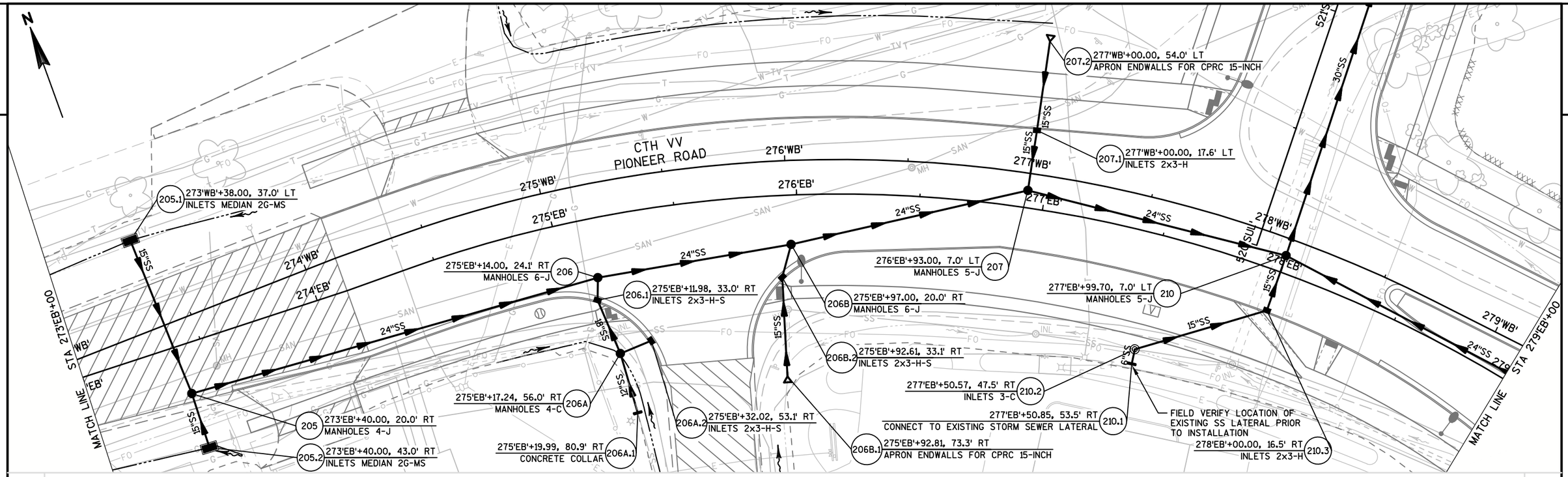
206
RIM: 783.17
SUMP: 776.71
DEPTH: 6.45
W INV IN: 776.71
S INV IN: 778.00
E INV OUT: 776.71

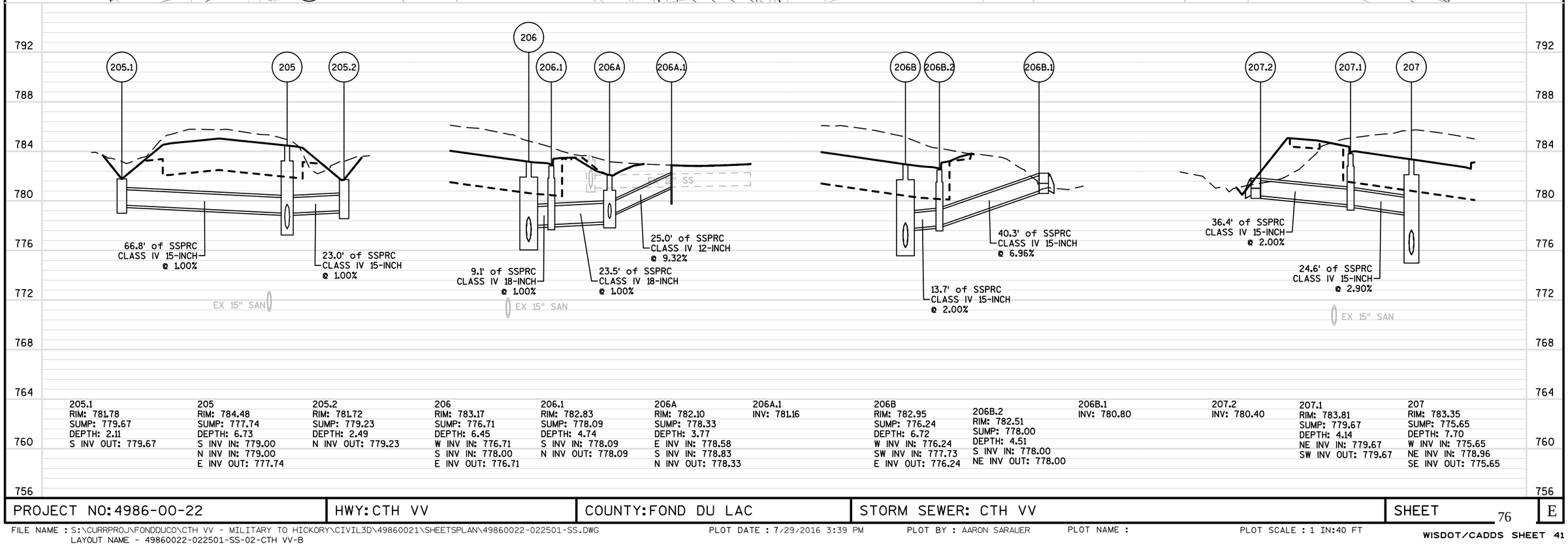
206B
RIM: 782.95
SUMP: 776.24
DEPTH: 6.72
W INV IN: 776.24
SW INV IN: 777.73
E INV OUT: 776.24

207
RIM: 783.35
SUMP: 775.65
DEPTH: 7.70
W INV IN: 775.65
NE INV IN: 778.96
SE INV OUT: 775.65

210
RIM: 782.92
SUMP: 773.79
DEPTH: 9.13
NW INV IN: 775.00
SE INV IN: 775.00
SW INV IN: 777.71
NE INV OUT: 773.79

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 75	E





205.1
RIM: 781.78
SUMP: 779.67
DEPTH: 2.11
S INV OUT: 779.67

205
RIM: 784.48
SUMP: 777.74
DEPTH: 6.73
S INV IN: 779.00
N INV IN: 779.00
E INV OUT: 777.74

205.2
RIM: 781.72
SUMP: 779.23
DEPTH: 2.49
N INV OUT: 779.23

206
RIM: 783.17
SUMP: 776.71
DEPTH: 6.45
W INV IN: 776.71
S INV IN: 778.00
E INV OUT: 776.71

206.1
RIM: 782.83
SUMP: 778.09
DEPTH: 4.74
S INV IN: 778.09
N INV OUT: 778.09

206A
RIM: 782.10
SUMP: 778.33
DEPTH: 3.77
E INV IN: 778.58
S INV IN: 778.83
N INV OUT: 778.33

206A.1
INV: 781.16

206B
RIM: 782.95
SUMP: 776.24
DEPTH: 6.72
W INV IN: 776.24
SW INV IN: 777.73
E INV OUT: 776.24

206B.2
RIM: 782.51
SUMP: 778.00
DEPTH: 4.51
S INV IN: 778.00
NE INV OUT: 778.00

206B.1
INV: 780.80

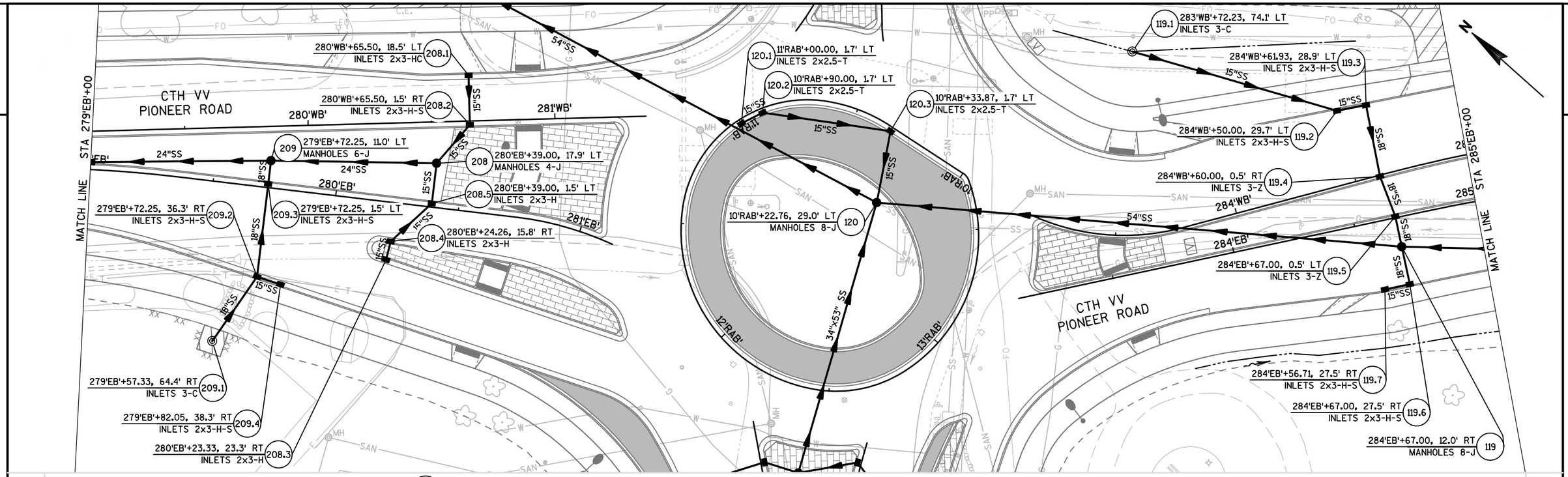
207.2
INV: 780.40

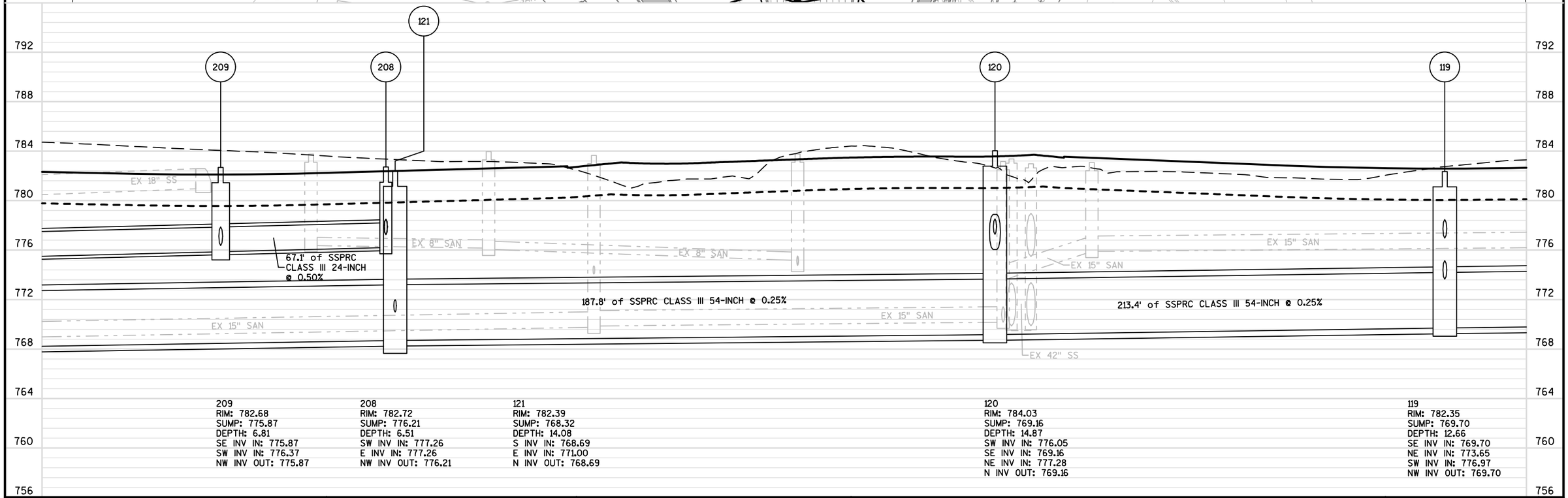
207.1
RIM: 783.81
SUMP: 779.67
DEPTH: 4.14
NE INV IN: 779.67
SW INV OUT: 779.67

207
RIM: 783.35
SUMP: 775.65
DEPTH: 7.70
W INV IN: 775.65
NE INV IN: 778.96
SE INV OUT: 775.65

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 76	E

2





209
RIM: 782.68
SUMP: 775.87
DEPTH: 6.81
SE INV IN: 775.87
SW INV IN: 776.37
NW INV OUT: 775.87

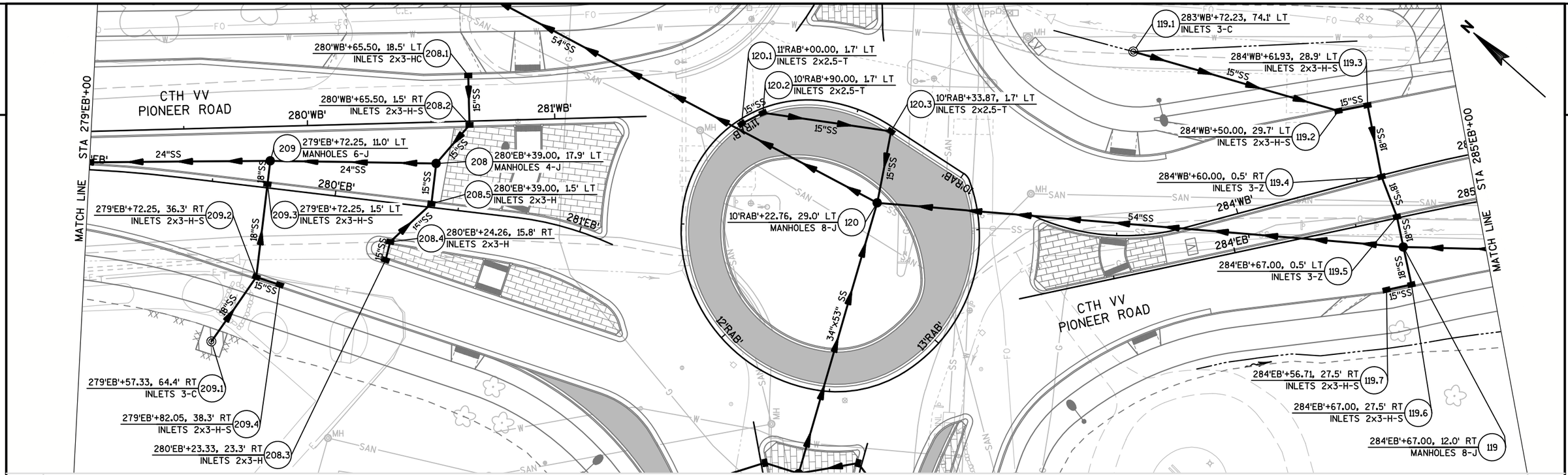
208
RIM: 782.72
SUMP: 776.21
DEPTH: 6.51
SW INV IN: 777.26
E INV IN: 777.26
NW INV OUT: 776.21

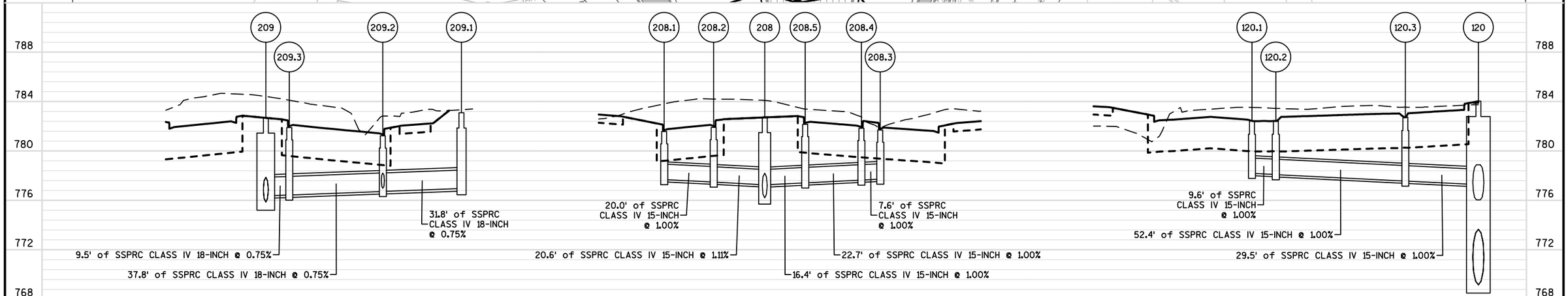
121
RIM: 782.39
SUMP: 768.32
DEPTH: 14.08
S INV IN: 768.69
E INV IN: 771.00
N INV OUT: 768.69

120
RIM: 784.03
SUMP: 769.16
DEPTH: 14.87
SW INV IN: 776.05
SE INV IN: 769.16
NE INV IN: 777.28
N INV OUT: 769.16

119
RIM: 782.35
SUMP: 769.70
DEPTH: 12.66
SE INV IN: 769.70
NE INV IN: 773.65
SW INV IN: 776.97
NW INV OUT: 769.70

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 77	E





208.1
RIM: 781.58
SUMP: 777.68
DEPTH: 3.89
SW INV OUT: 777.68

208
RIM: 782.72
SUMP: 776.21
DEPTH: 6.51
SW INV IN: 777.26
E INV IN: 777.26
NW INV OUT: 776.21

209
RIM: 782.68
SUMP: 775.87
DEPTH: 6.81
SE INV IN: 775.87
SW INV IN: 776.37
NW INV OUT: 775.87

209.3
RIM: 781.91
SUMP: 776.44
DEPTH: 5.46
SW INV IN: 776.44
NE INV OUT: 776.44

209.2
RIM: 781.23
SUMP: 776.73
DEPTH: 4.50
W INV IN: 776.73
SE INV IN: 776.98
NE INV OUT: 776.73

209.1
RIM: 783.09
SUMP: 776.96
DEPTH: 6.13
E INV OUT: 776.96

208.2
RIM: 781.92
SUMP: 777.48
DEPTH: 4.43
NE INV IN: 777.48
W INV OUT: 777.48

208.5
RIM: 782.17
SUMP: 777.42
DEPTH: 4.75
W INV IN: 777.42
NE INV OUT: 777.42

208.4
RIM: 781.84
SUMP: 777.65
DEPTH: 4.20
SW INV IN: 777.65
E INV OUT: 777.65

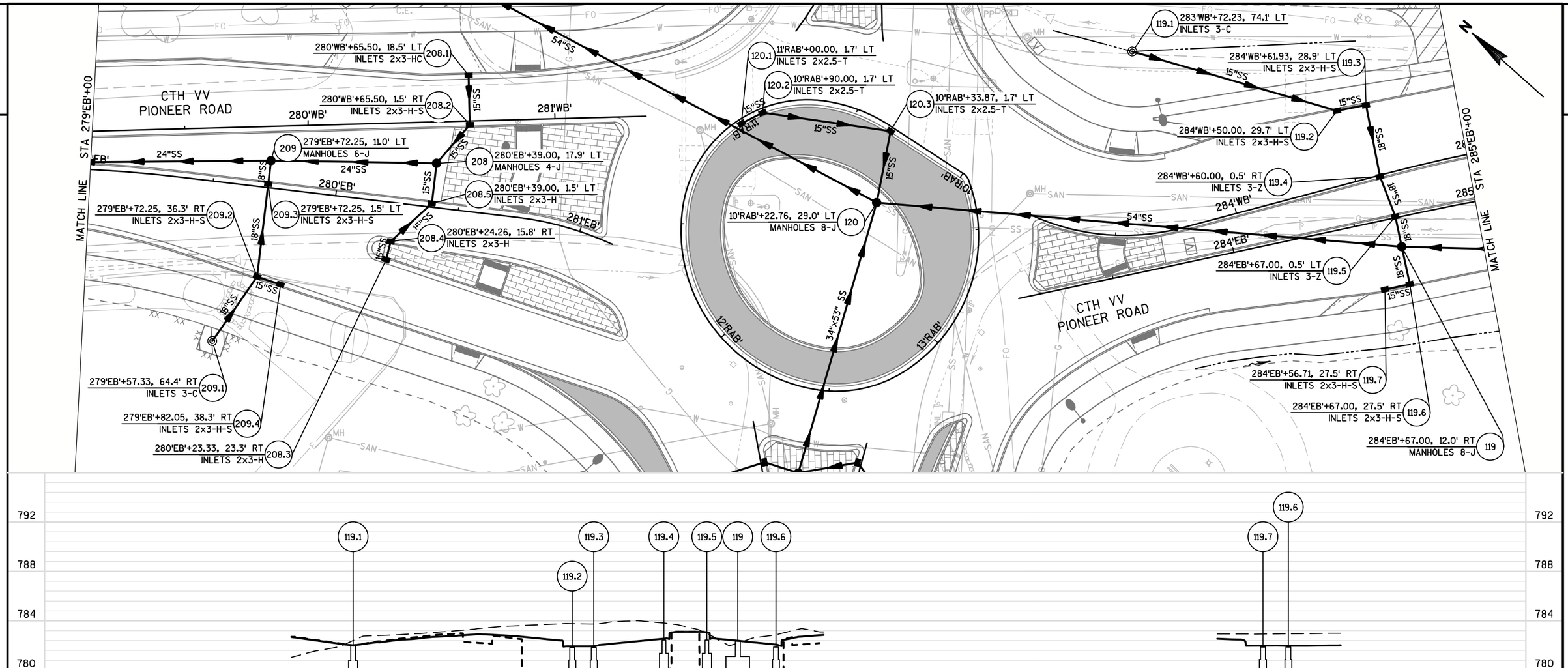
208.3
RIM: 781.70
SUMP: 777.72
DEPTH: 3.97
NE INV OUT: 777.72

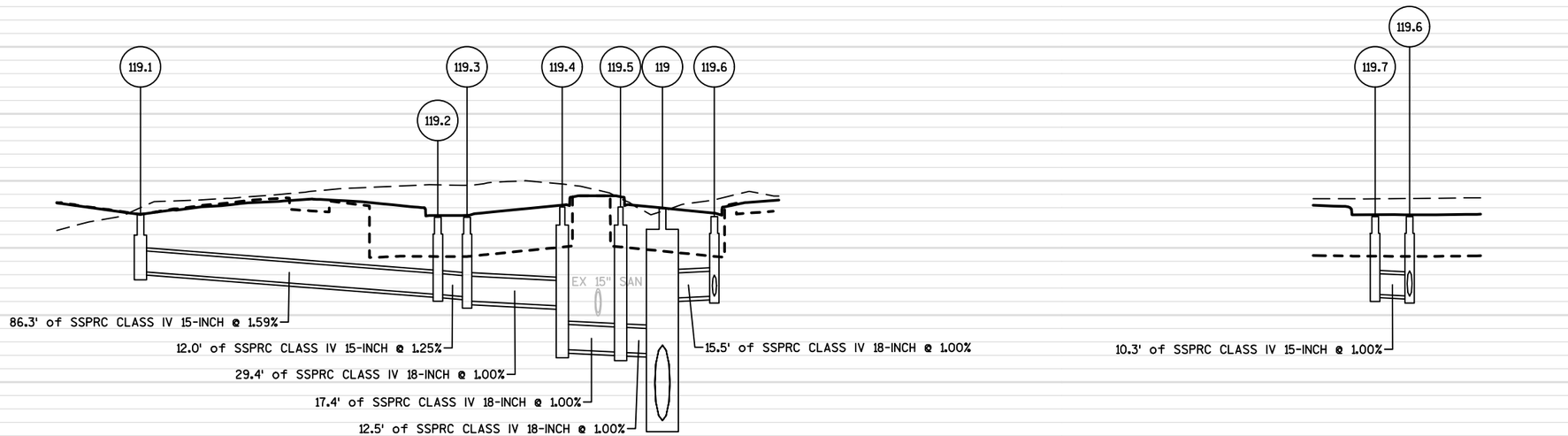
120.1
RIM: 782.43
SUMP: 778.19
DEPTH: 4.24
E INV OUT: 778.19

120.2
RIM: 782.44
SUMP: 778.09
DEPTH: 4.34
W INV IN: 778.09
SE INV OUT: 778.09

120.3
RIM: 782.74
SUMP: 777.57
DEPTH: 5.17
NW INV IN: 777.57
SW INV OUT: 777.57

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 78	E





119.1
RIM: 782.00
SUMP: 778.60
DEPTH: 3.40
SE INV OUT: 778.60

119.2
RIM: 781.83
SUMP: 777.23
DEPTH: 4.60
NW INV IN: 777.23
SE INV OUT: 777.23

119.3
RIM: 781.84
SUMP: 776.83
DEPTH: 5.01
NW INV IN: 777.08
SW INV OUT: 776.83

119.4
RIM: 782.45
SUMP: 773.95
DEPTH: 8.50
NE INV IN: 776.54
SW INV OUT: 773.95

119.5
RIM: 782.45
SUMP: 773.77
DEPTH: 8.68
NE INV IN: 773.77
SW INV OUT: 773.77

119
RIM: 782.35
SUMP: 769.70
DEPTH: 12.66
SE INV IN: 769.70
NE INV IN: 773.65
SW INV IN: 776.97
NW INV OUT: 769.70

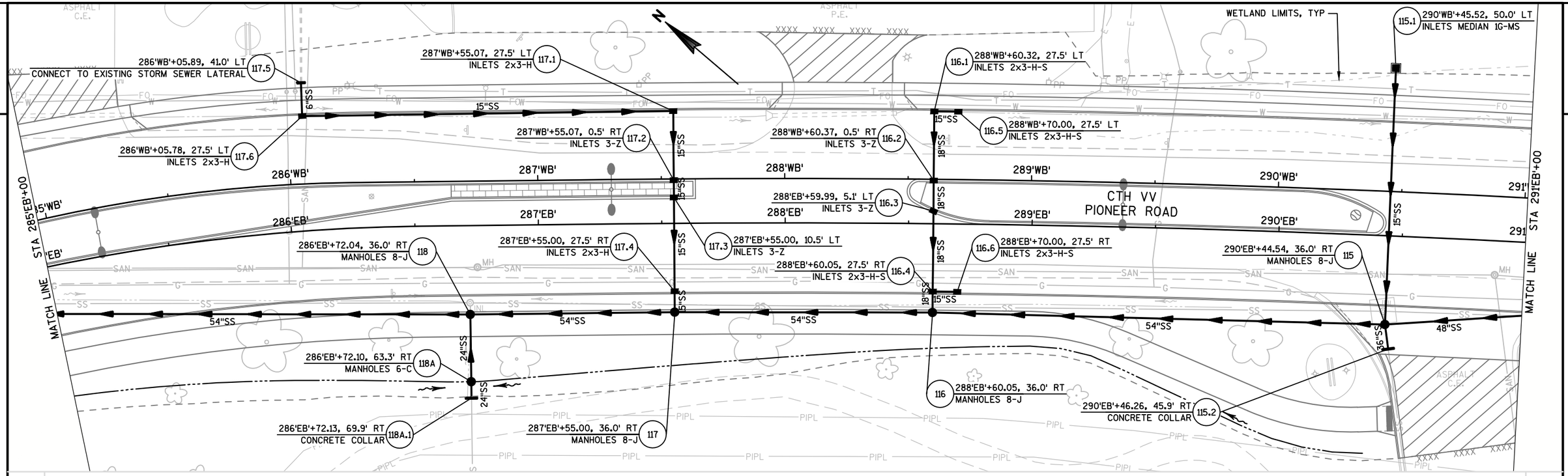
119.6
RIM: 781.87
SUMP: 777.13
DEPTH: 4.75
NW INV IN: 777.13
NE INV OUT: 777.13

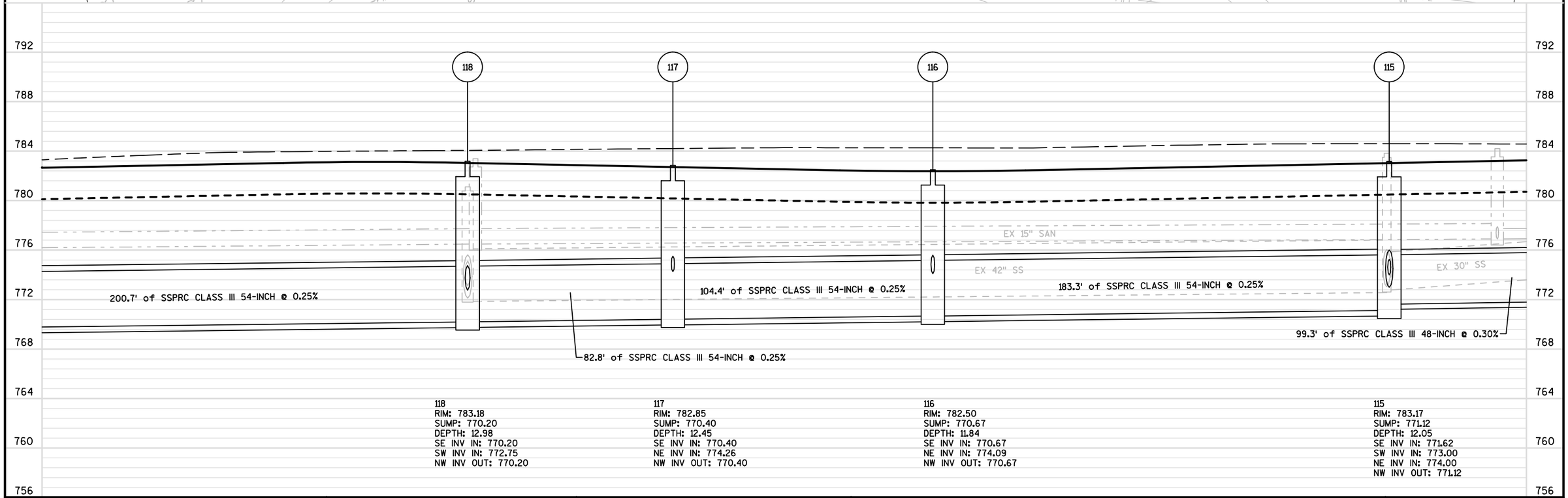
119.7
RIM: 781.87
SUMP: 777.23
DEPTH: 4.64
SE INV OUT: 777.23

119.6
RIM: 781.87
SUMP: 777.13
DEPTH: 4.75
NW INV IN: 777.13
NE INV OUT: 777.13

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 79	E

2





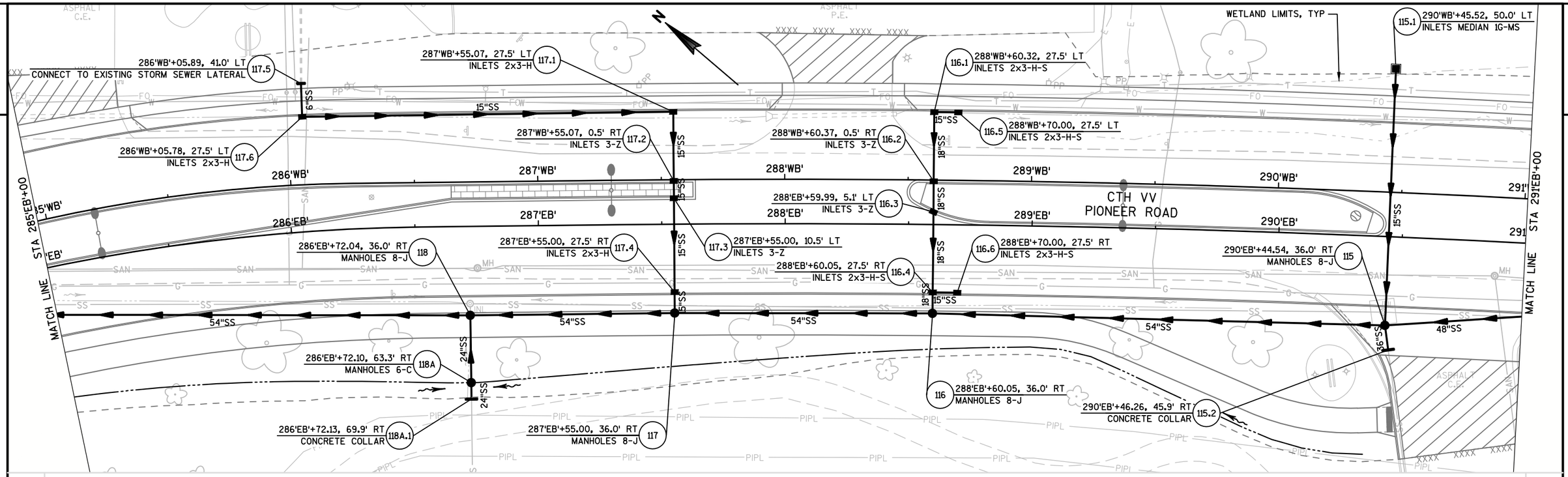
118
RIM: 783.18
SUMP: 770.20
DEPTH: 12.98
SE INV IN: 770.20
SW INV IN: 772.75
NW INV OUT: 770.20

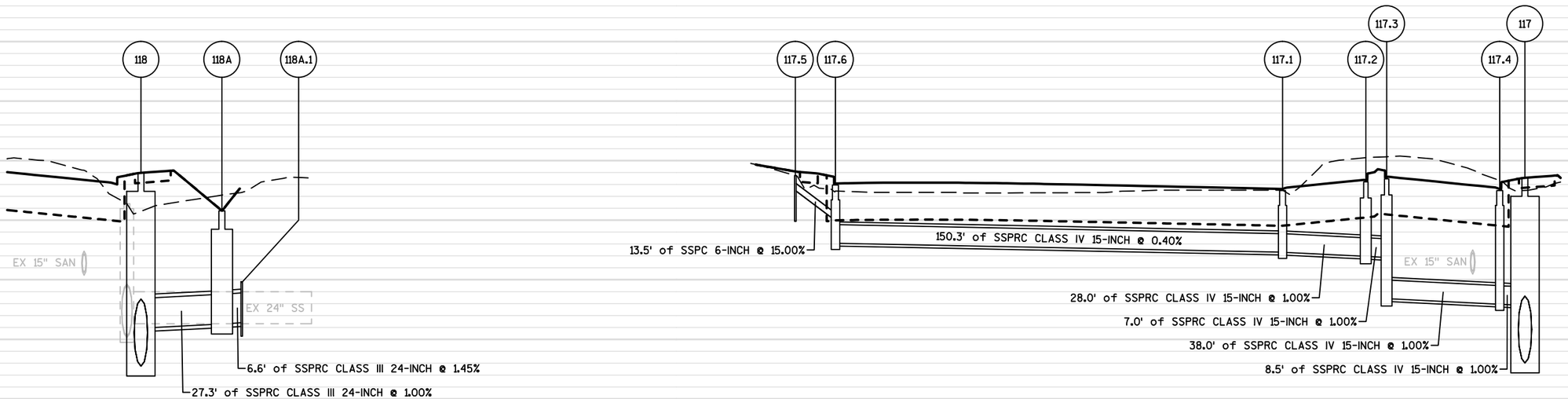
117
RIM: 782.85
SUMP: 770.40
DEPTH: 12.45
SE INV IN: 770.40
NE INV IN: 774.26
NW INV OUT: 770.40

116
RIM: 782.50
SUMP: 770.67
DEPTH: 11.84
SE INV IN: 770.67
NE INV IN: 774.09
NW INV OUT: 770.67

115
RIM: 783.17
SUMP: 771.12
DEPTH: 12.05
SE INV IN: 771.62
SW INV IN: 773.00
NE INV IN: 774.00
NW INV OUT: 771.12

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 80	E





118
RIM: 783.18
SUMP: 770.20
DEPTH: 12.98
SE INV IN: 770.20
SW INV IN: 772.75
NW INV OUT: 770.20

118A
RIM: 780.64
SUMP: 773.02
DEPTH: 7.61
SW INV IN: 773.02
NE INV OUT: 773.02

118A.1
INV: 773.12

117.5
INV: 782.00

117.6
RIM: 782.36
SUMP: 778.45
DEPTH: 3.91
NE INV IN: 779.98
SE INV OUT: 778.45

117.1
RIM: 782.00
SUMP: 777.85
DEPTH: 4.15
NW INV IN: 777.85
SW INV OUT: 777.85

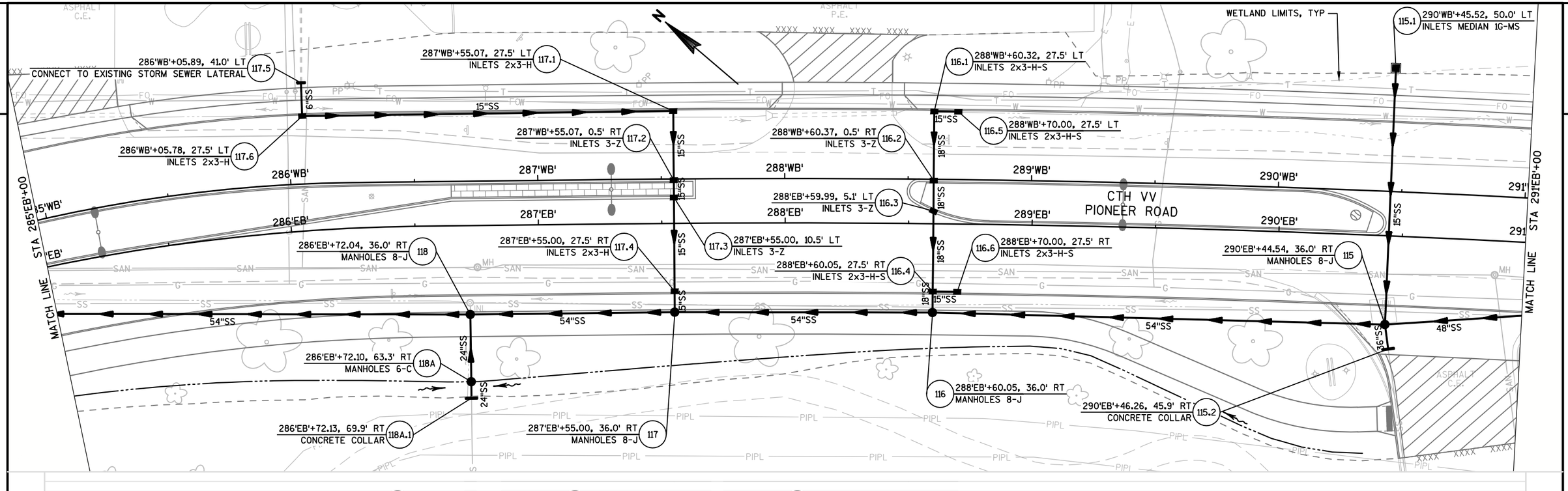
117.2
RIM: 782.58
SUMP: 777.57
DEPTH: 5.01
NE INV IN: 777.57
SW INV OUT: 777.57

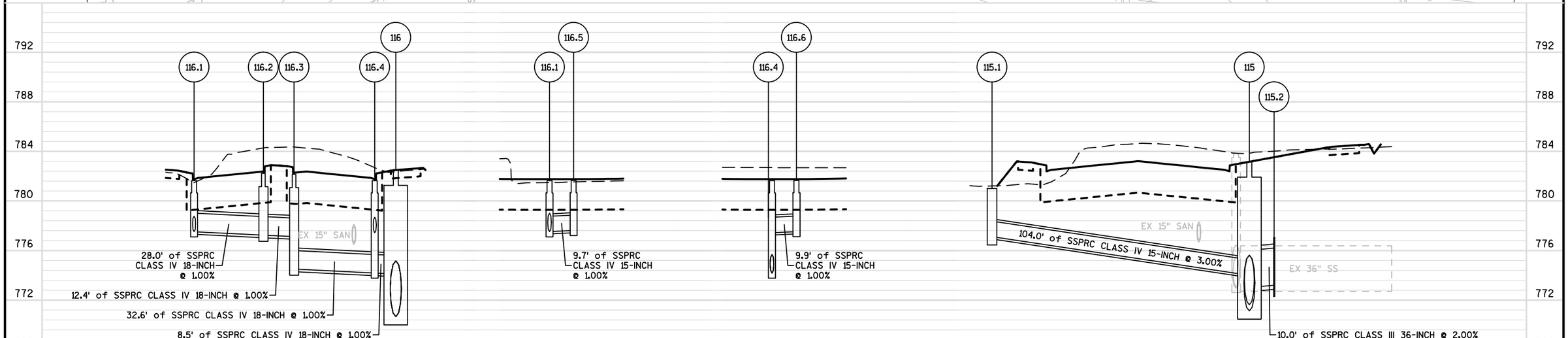
117.3
RIM: 782.78
SUMP: 774.73
DEPTH: 8.05
NE INV IN: 777.50
SW INV OUT: 774.73

117.4
RIM: 782.00
SUMP: 774.35
DEPTH: 7.65
NE INV IN: 774.35
SW INV OUT: 774.35

117
RIM: 782.85
SUMP: 770.40
DEPTH: 12.45
SE INV IN: 770.40
NE INV IN: 774.26
NW INV OUT: 770.40

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 81	E





116.1
RIM: 781.65
SUMP: 777.52
DEPTH: 4.13
SE INV IN: 777.52
SW INV OUT: 777.52

116.2
RIM: 782.23
SUMP: 777.24
DEPTH: 4.99
NE INV IN: 777.24
SW INV OUT: 777.24

116.3
RIM: 782.16
SUMP: 774.50
DEPTH: 7.65
NE INV IN: 777.12
SW INV OUT: 774.50

116.4
RIM: 781.65
SUMP: 774.18
DEPTH: 7.47
NE INV IN: 774.18
SE INV IN: 777.43
SW INV OUT: 774.18

116
RIM: 782.50
SUMP: 770.67
DEPTH: 11.84
SE INV IN: 770.67
NE INV IN: 774.09
NW INV OUT: 770.67

116.5
RIM: 781.66
SUMP: 777.62
DEPTH: 4.04
NW INV OUT: 777.62

116.6
RIM: 781.66
SUMP: 777.53
DEPTH: 4.13
NW INV OUT: 777.53

115.1
RIM: 781.00
SUMP: 777.12
DEPTH: 3.88
SW INV OUT: 777.12

115
RIM: 783.17
SUMP: 771.12
DEPTH: 12.05
SE INV IN: 771.62
SW INV IN: 773.00
NE INV IN: 774.00
NW INV OUT: 771.12

115.2
INV: 773.20

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 82	E

2

WETLAND LIMITS, TYP

294'WB'+30.87, 49.2' LT
INLETS MEDIAN 1G-MS
113A.2

113A.1
294'WB'+52.36, 41.0' LT
CONCRETE COLLAR

112.1
294'WB'+75.00, 27.5' LT
INLETS 2x3-H-S

112.5
294'WB'+85.00, 27.5' LT
INLETS 2x3-H-S

294'WB'+46.51, 31.0' LT
MANHOLES 6-J
113A

112.2
294'WB'+75.00, 0.5' RT
INLETS 3-Z

112.3
294'EB'+75.00, 0.5' LT
INLETS 3-Z

114
291'EB'+43.72, 24.5' RT
MANHOLES 8-J

114A
292'EB'+44.00, 25.8' RT
MANHOLES 4T-J

294'EB'+44.00, 28.0' RT
MANHOLES 8-J
113

112
294'EB'+75.00, 28.0' RT
MANHOLES 8-J

296'EB'+72.97, 33.0' RT
MANHOLES 6-J
111

114.1
291'EB'+47.90, 45.8' RT
CONCRETE COLLAR

114.2
291'EB'+38.00, 83.4' RT
INLETS 3-C

114A.1
292'EB'+44.00, 48.0' RT
INLETS 3-C

294'EB'+46.80, 41.9' RT
CONCRETE COLLAR
113.1

294'EB'+75.00, 38.5' RT
INLETS 2x3-H-S
112.4

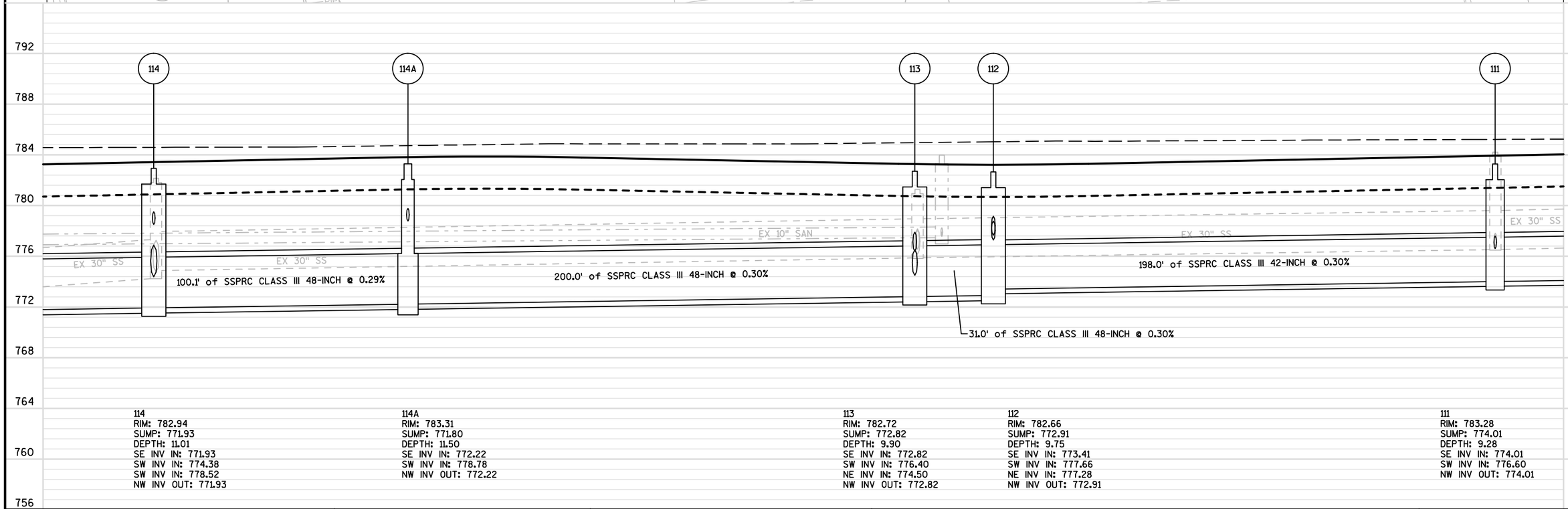
112.6
294'EB'+85.00, 38.5' RT
INLETS 2x3-H-S

296'EB'+75.07, 42.8' RT
CONCRETE COLLAR
111.1

CTH VV
PIONEER ROAD

MATCH LINE STA 291'EB'+00

MATCH LINE STA 297'EB'+00



114
RIM: 782.94
SUMP: 771.93
DEPTH: 11.01
SE INV IN: 771.93
SW INV IN: 774.38
SW INV IN: 778.52
NW INV OUT: 771.93

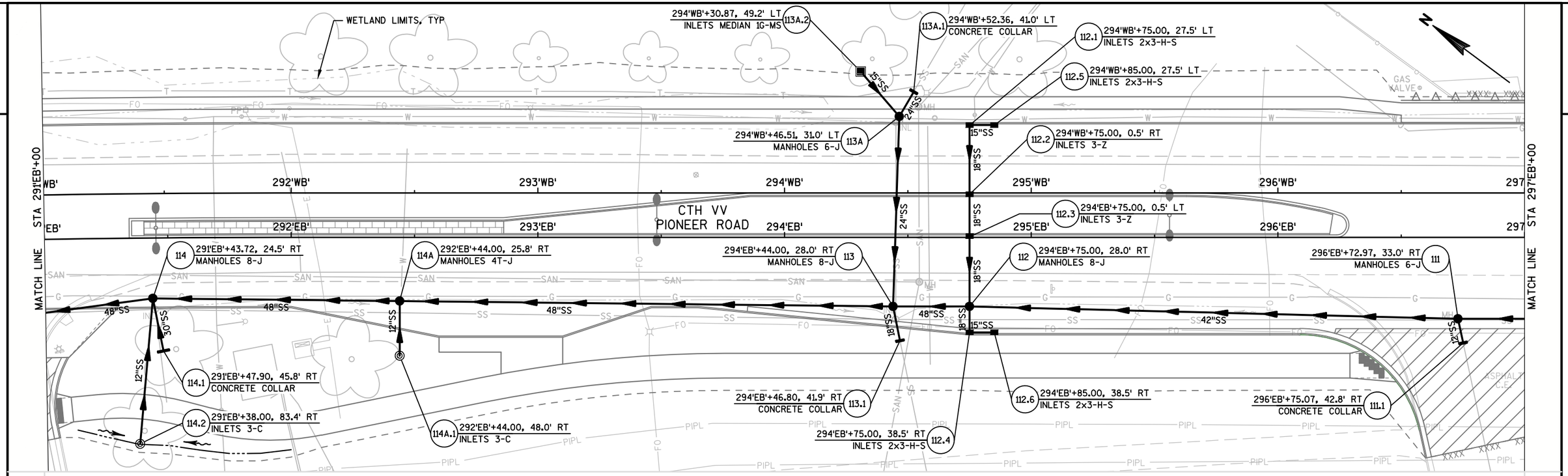
114A
RIM: 783.31
SUMP: 771.80
DEPTH: 11.50
SE INV IN: 772.22
SW INV IN: 778.78
NW INV OUT: 772.22

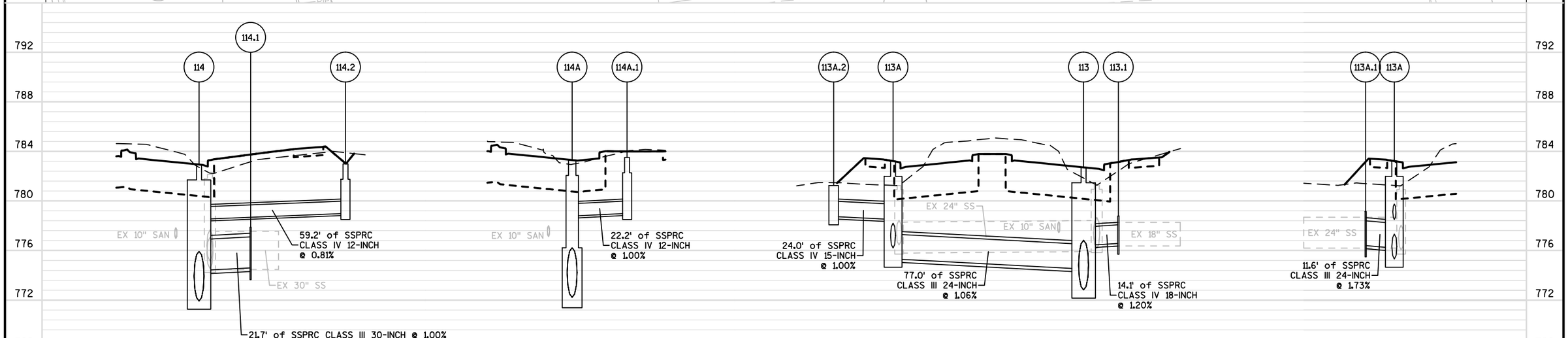
113
RIM: 782.72
SUMP: 772.82
DEPTH: 9.90
SE INV IN: 772.82
SW INV IN: 776.40
NE INV IN: 774.50
NW INV OUT: 772.82

112
RIM: 782.66
SUMP: 772.91
DEPTH: 9.75
SE INV IN: 773.41
SW INV IN: 777.66
NE INV IN: 777.28
NW INV OUT: 772.91

111
RIM: 783.28
SUMP: 774.01
DEPTH: 9.28
SE INV IN: 774.01
SW INV IN: 776.60
NW INV OUT: 774.01

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 83	E





114
RIM: 782.94
SUMP: 771.93
DEPTH: 11.01
SE INV IN: 771.93
SW INV IN: 774.38
SW INV IN: 778.52
NW INV OUT: 771.93

114.1
INV: 774.60

114.2
INV: 779.00

114A
RIM: 783.31
SUMP: 771.80
DEPTH: 11.50
SE INV IN: 772.22
SW INV IN: 778.78
NW INV OUT: 772.22

114A.1
RIM: 783.51
SUMP: 779.00
DEPTH: 4.51
NE INV OUT: 779.00

113A.2
RIM: 781.24
SUMP: 778.74
DEPTH: 2.50
S INV OUT: 778.74

113A
RIM: 783.22
SUMP: 775.32
DEPTH: 7.90
E INV IN: 776.20
N INV IN: 778.50
SW INV OUT: 775.32

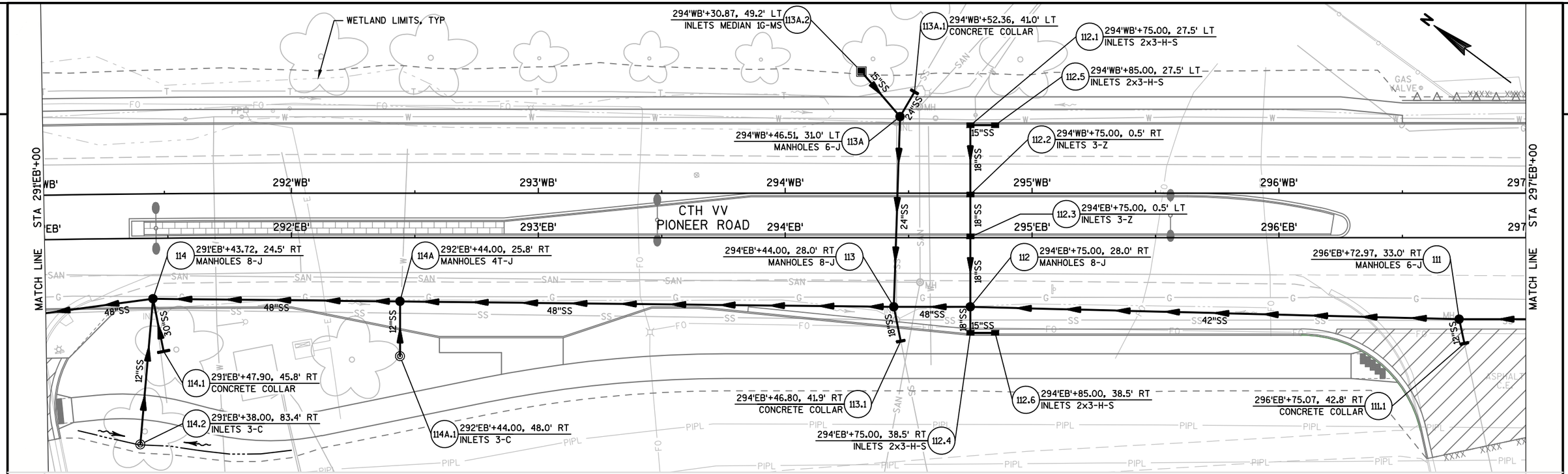
113
RIM: 782.72
SUMP: 772.82
DEPTH: 9.90
SE INV IN: 772.82
SW INV IN: 776.40
NE INV IN: 774.50
NW INV OUT: 772.82

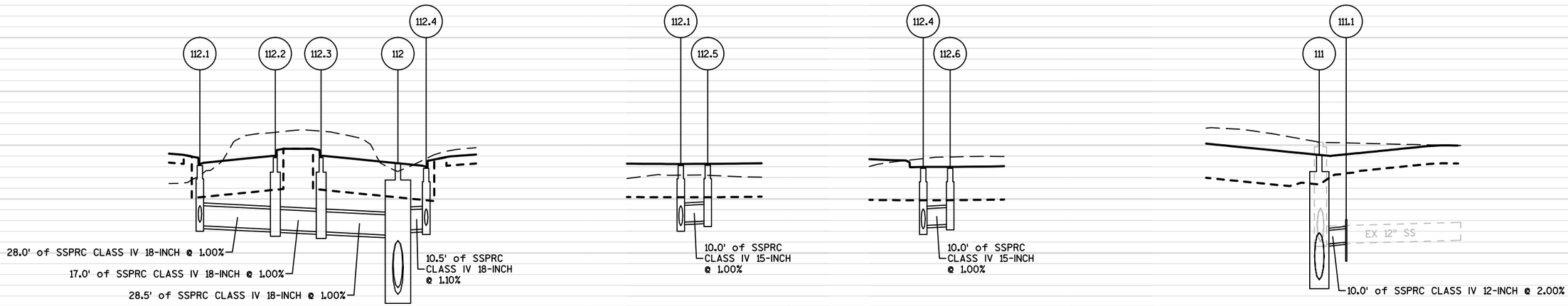
113.1
INV: 776.57

113A.1
INV: 776.40

113A
RIM: 783.22
SUMP: 775.32
DEPTH: 7.90
E INV IN: 776.20
N INV IN: 778.50
SW INV OUT: 775.32

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 84	E

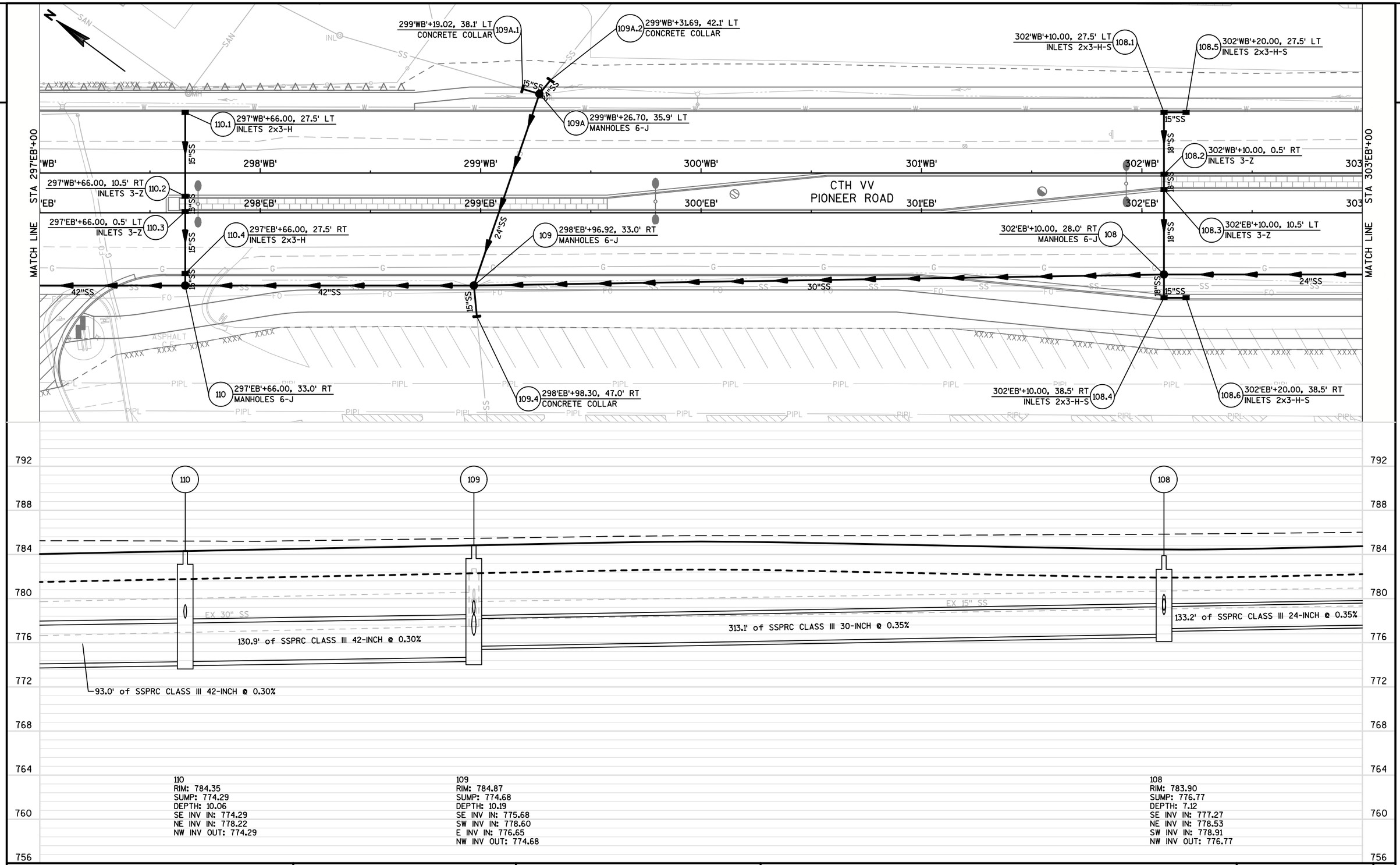




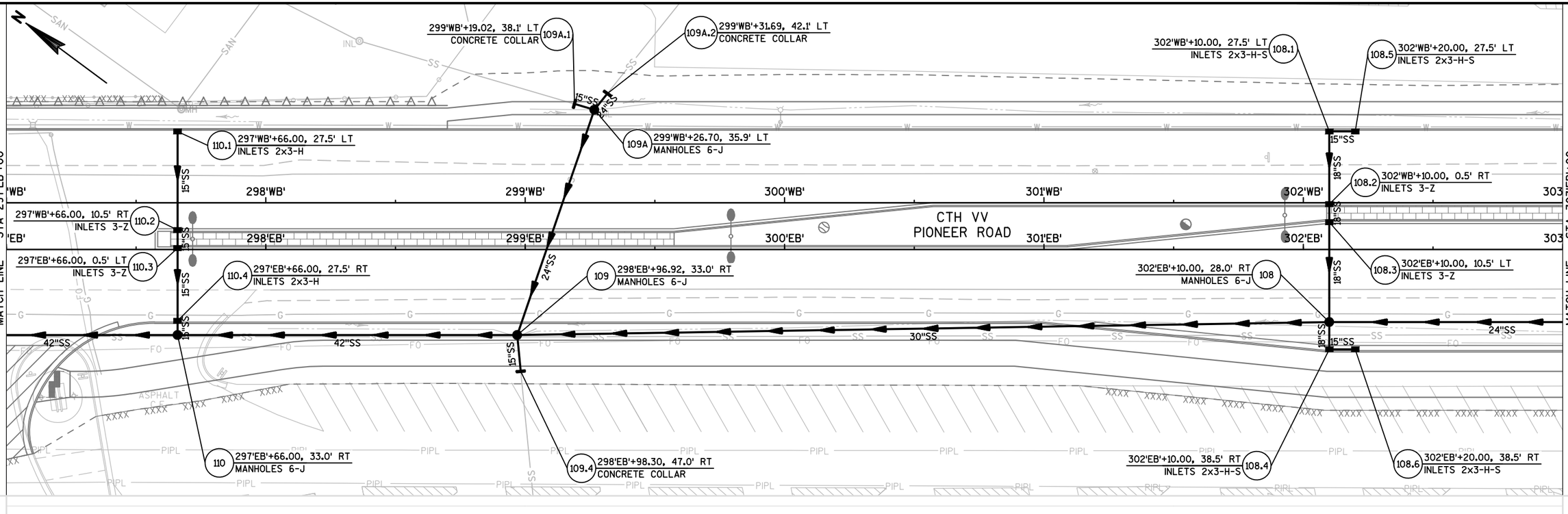
112.1 RIM: 782.50 SUMP: 778.02 DEPTH: 4.48 SE INV IN: 778.27 SW INV OUT: 778.02	112.2 RIM: 783.08 SUMP: 777.74 DEPTH: 5.35 NE INV IN: 777.74 SW INV OUT: 777.74	112.3 RIM: 783.08 SUMP: 777.57 DEPTH: 5.52 NE INV IN: 777.57 SW INV OUT: 777.57	112 RIM: 782.66 SUMP: 772.91 DEPTH: 9.75 SE INV IN: 773.41 SW INV IN: 777.66 NE INV IN: 777.28 NW INV OUT: 772.91	112.4 RIM: 782.28 SUMP: 777.78 DEPTH: 4.50 SE INV IN: 778.03 NE INV OUT: 777.78	112.5 RIM: 782.51 SUMP: 778.37 DEPTH: 4.14 NW INV OUT: 778.37	112.6 RIM: 782.29 SUMP: 778.13 DEPTH: 4.16 NW INV OUT: 778.13	111 RIM: 783.28 SUMP: 774.01 DEPTH: 9.28 SE INV IN: 774.01 SW INV IN: 776.60 NW INV OUT: 774.01 111.1 INV: 776.80

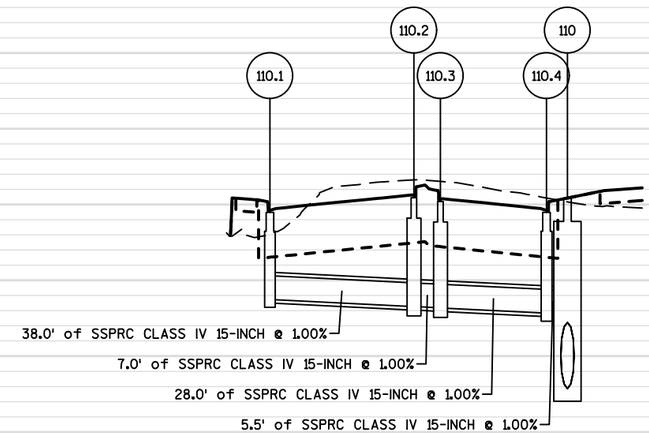
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 85	E

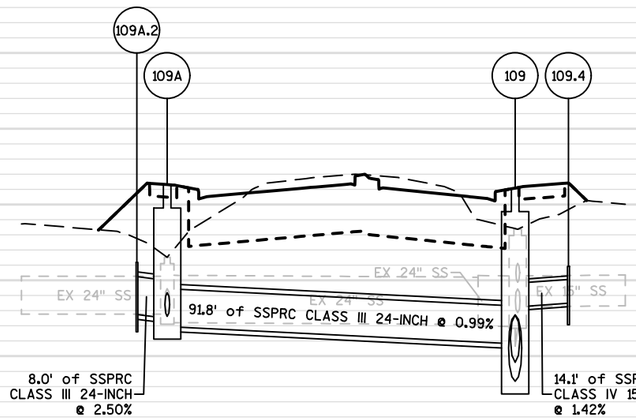
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022501-SS.DWG
LAYOUT NAME - 49860022-022501-SS-05-CTH VV-C
PLOT DATE : 9/15/2016 12:51 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

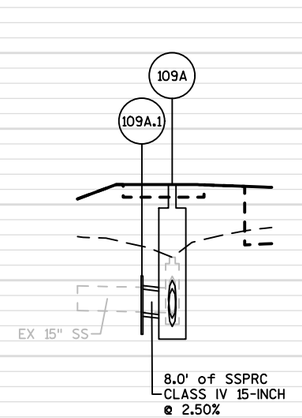


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 86	E









792 788 784 780 776 772 768 764 760 756

110.1
RIM: 783.59
SUMP: 779.00
DEPTH: 4.59
SW INV OUT: 779.00

110.2
RIM: 784.37
SUMP: 778.62
DEPTH: 5.75
NE INV IN: 778.62
SW INV OUT: 778.62

110.3
RIM: 784.17
SUMP: 778.55
DEPTH: 5.62
NE INV IN: 778.55
SW INV OUT: 778.55

110.4
RIM: 783.59
SUMP: 778.27
DEPTH: 5.32
NE INV IN: 778.27
SW INV OUT: 778.27

110
RIM: 784.35
SUMP: 774.29
DEPTH: 10.06
SE INV IN: 774.29
NE INV IN: 778.22
NW INV OUT: 774.29

109A.2
INV: 778.20

109A
RIM: 785.06
SUMP: 777.56
DEPTH: 7.50
E INV IN: 778.00
N INV IN: 778.10
W INV OUT: 777.56

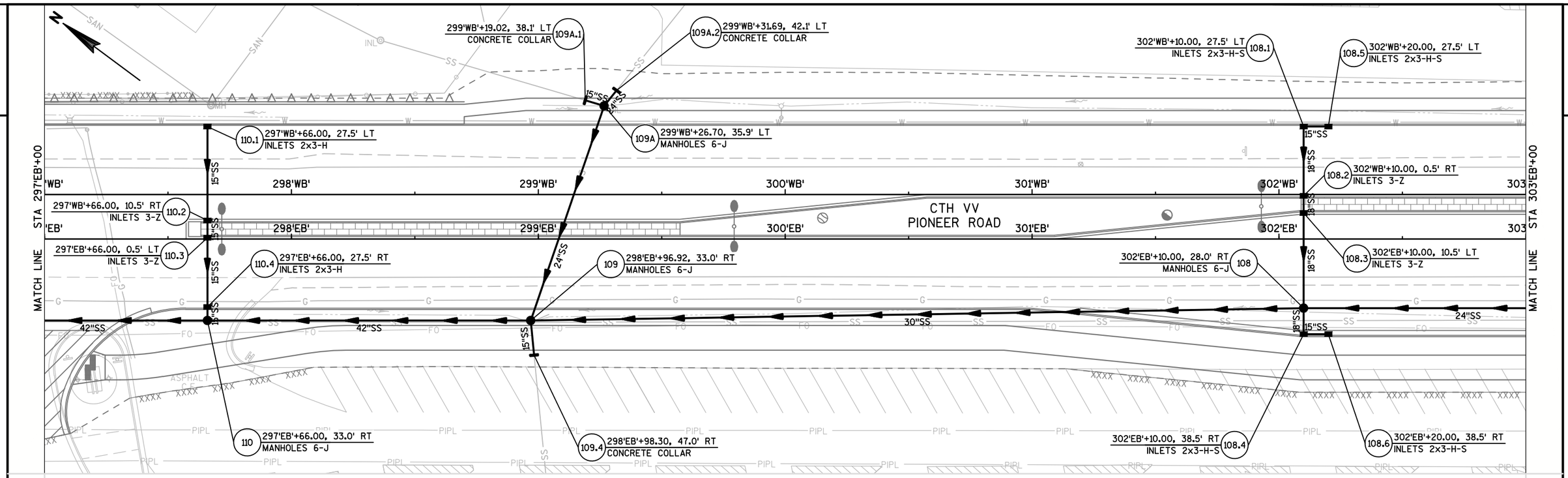
109
RIM: 784.87
SUMP: 774.68
DEPTH: 10.19
SE INV IN: 775.68
SW INV IN: 778.60
E INV IN: 776.65
NW INV OUT: 774.68

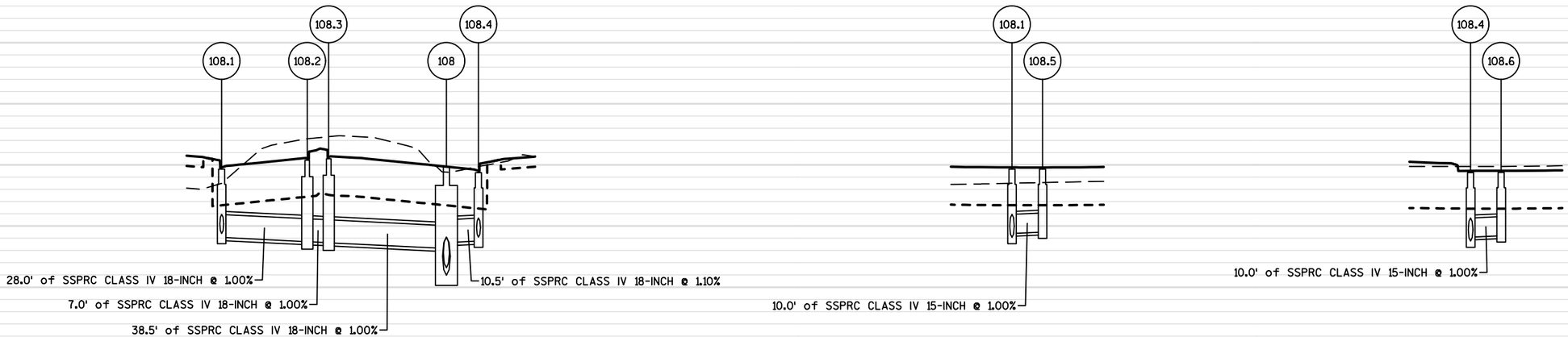
109.4
INV: 778.80

109A.1
INV: 778.30

109A
RIM: 785.06
SUMP: 777.56
DEPTH: 7.50
E INV IN: 778.00
N INV IN: 778.10
W INV OUT: 777.56

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 87	E





108.1
RIM: 783.73
SUMP: 779.26
DEPTH: 4.47
SE INV IN: 779.51
SW INV OUT: 779.26

108.2
RIM: 784.31
SUMP: 778.98
DEPTH: 5.33
NE INV IN: 778.98
SW INV OUT: 778.98

108.3
RIM: 784.41
SUMP: 778.91
DEPTH: 5.50
NE INV IN: 778.91
SW INV OUT: 778.91

108
RIM: 783.90
SUMP: 776.77
DEPTH: 7.12
SE INV IN: 777.27
NE INV IN: 778.53
SW INV IN: 778.91
NW INV OUT: 776.77

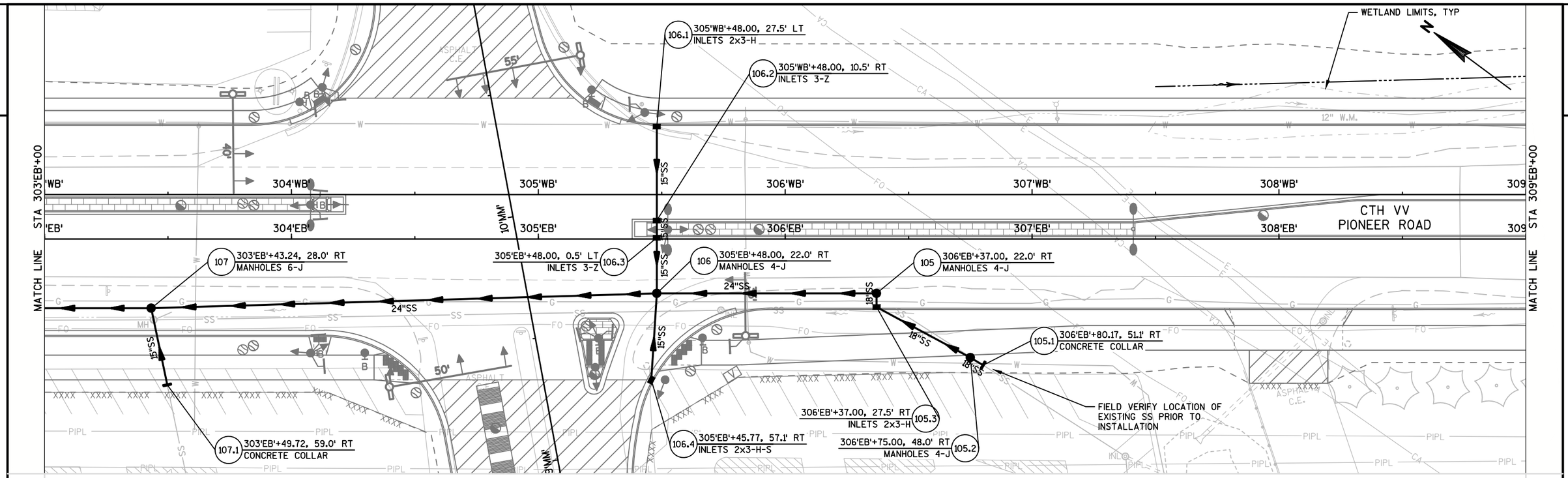
108.4
RIM: 783.50
SUMP: 779.02
DEPTH: 4.48
SE INV IN: 779.27
NE INV OUT: 779.02

108.5
RIM: 783.73
SUMP: 779.61
DEPTH: 4.12
NW INV OUT: 779.61

108.6
RIM: 783.51
SUMP: 779.37
DEPTH: 4.14
NW INV OUT: 779.37

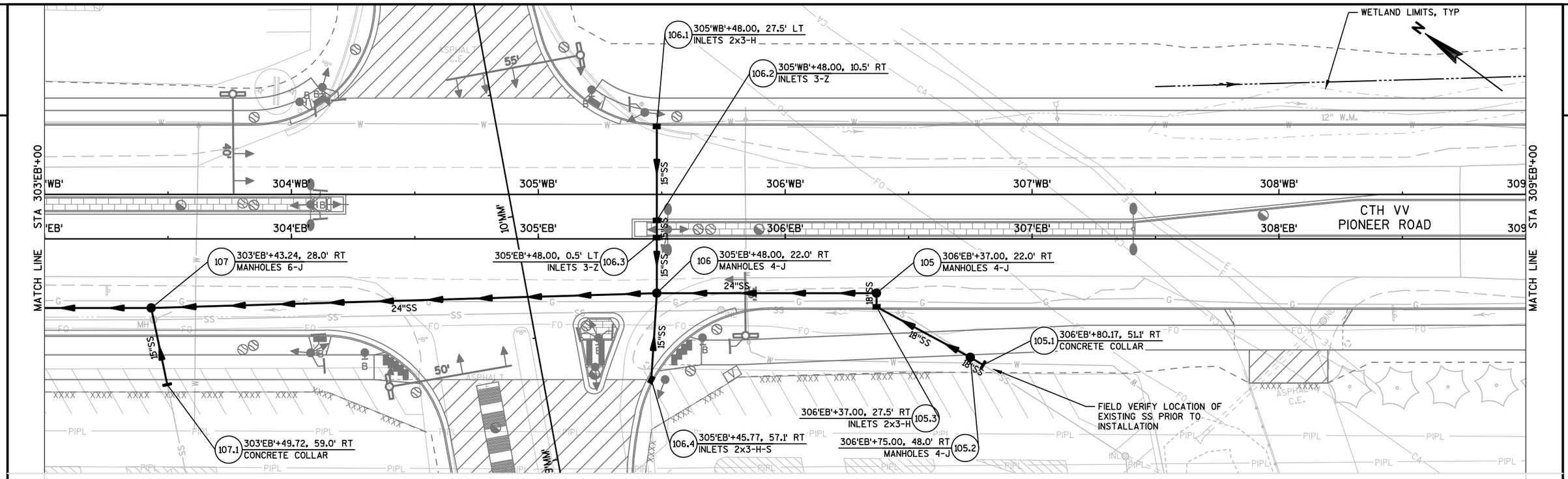
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 88	E

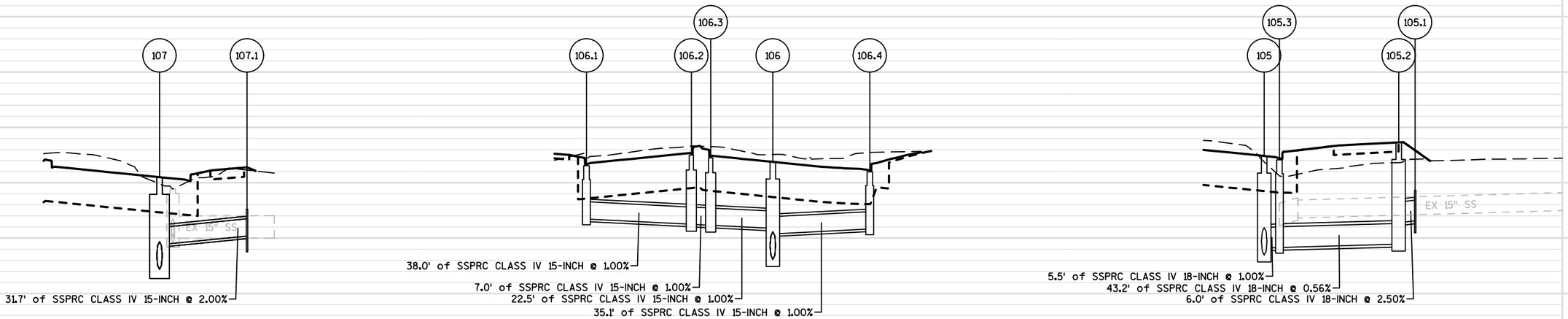
2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 89	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022501-SS.DWG
LAYOUT NAME - 49860022-022501-SS-07-CTH VV-A
PLOT DATE : 7/29/2016 3:40 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41





107
RIM: 784.40
SUMP: 777.74
DEPTH: 6.66
SE INV IN: 777.74
SW INV IN: 779.52
NW INV OUT: 777.74

107.1
INV: 780.15

106.1
RIM: 785.23
SUMP: 781.38
DEPTH: 3.85
SW INV OUT: 781.38

106.2
RIM: 786.01
SUMP: 781.00
DEPTH: 5.01
NE INV IN: 781.00
SW INV OUT: 781.00

106.3
RIM: 785.81
SUMP: 780.93
DEPTH: 4.88
NE INV IN: 780.93
SW INV OUT: 780.93

106
RIM: 785.51
SUMP: 778.46
DEPTH: 7.05
SE INV IN: 778.46
NE INV IN: 780.70
SW INV IN: 780.31
NW INV OUT: 778.46

106.4
RIM: 784.80
SUMP: 780.66
DEPTH: 4.14
NE INV OUT: 780.66

105
RIM: 785.94
SUMP: 778.77
DEPTH: 7.17
SW INV IN: 779.27
NW INV OUT: 778.77

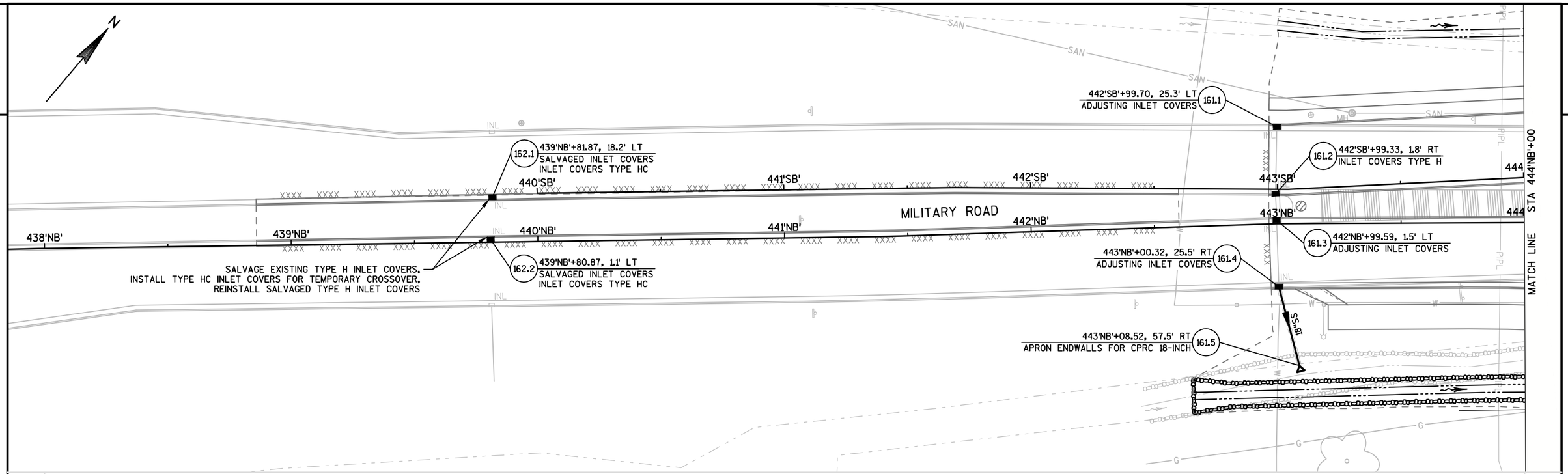
105.3
RIM: 785.66
SUMP: 779.32
DEPTH: 6.33
S INV IN: 779.32
NE INV OUT: 779.32

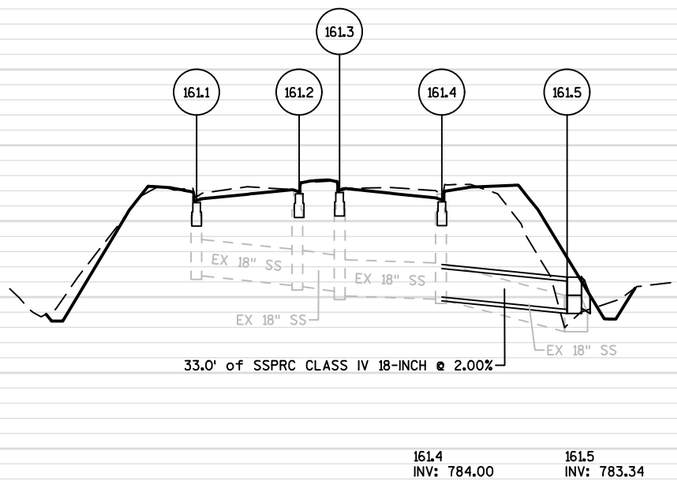
105.2
RIM: 786.92
SUMP: 779.57
DEPTH: 7.36
S INV IN: 781.10
N INV OUT: 779.57

105.1
INV: 781.25

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: CTH VV	SHEET 90	E

2





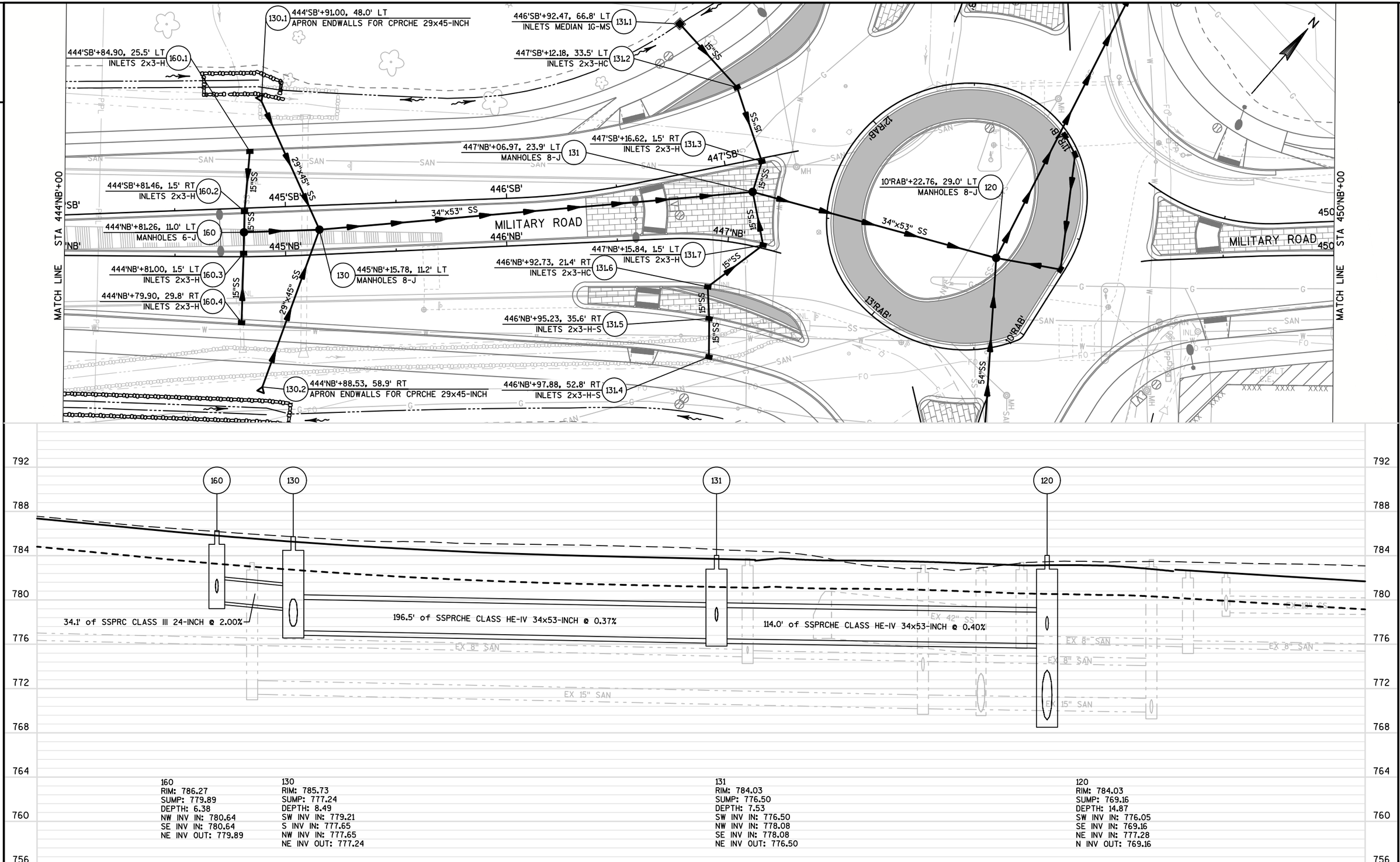
804 800 796 792 788 784 780 776 772 768

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: MILITARY ROAD	SHEET 91	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022502-SS.DWG
LAYOUT NAME - 49860022-022502-SS-01-MILITARY-A

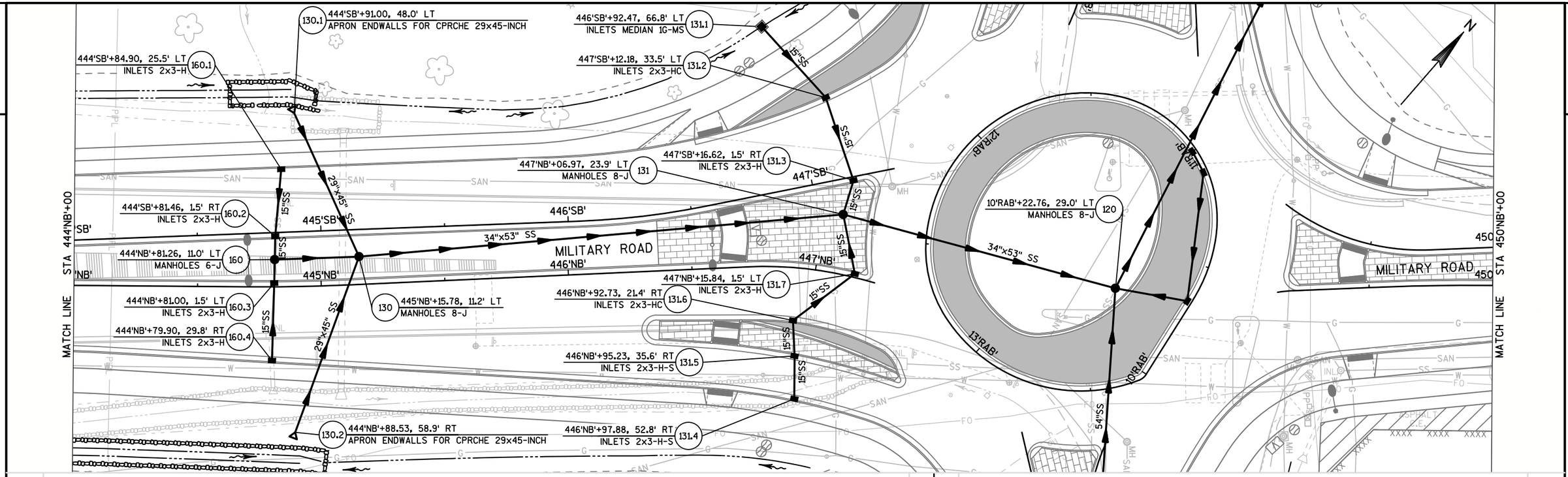
PLOT DATE : 7/29/2016 9:06 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

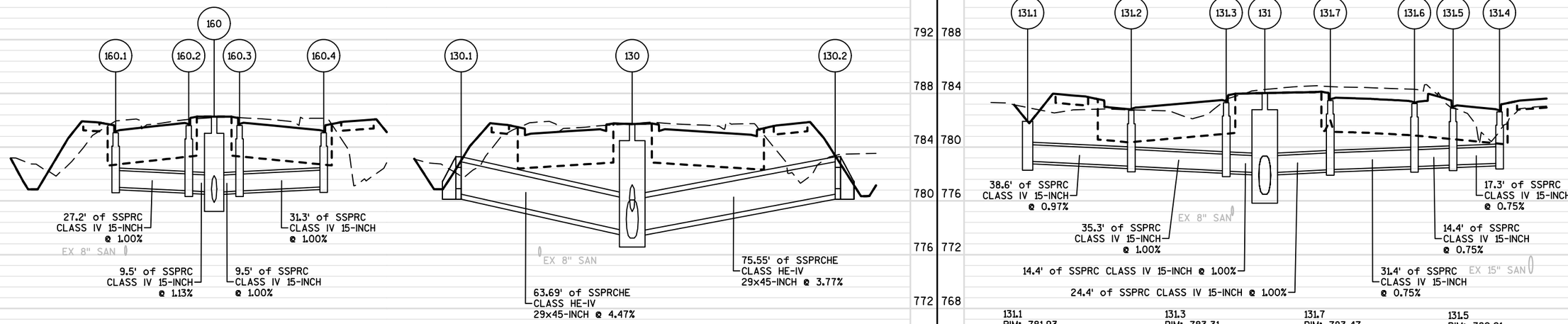
2



160	130	131	120
RIM: 786.27	RIM: 785.73	RIM: 784.03	RIM: 784.03
SUMP: 779.89	SUMP: 777.24	SUMP: 776.50	SUMP: 769.16
DEPTH: 6.38	DEPTH: 8.49	DEPTH: 7.53	DEPTH: 14.87
NW INV IN: 780.64	SW INV IN: 779.21	SW INV IN: 776.50	SW INV IN: 776.05
SE INV IN: 780.64	S INV IN: 777.65	NW INV IN: 778.08	SE INV IN: 769.16
NE INV OUT: 779.89	NW INV IN: 777.65	SE INV IN: 778.08	NE INV IN: 777.28
	NE INV OUT: 777.24	NE INV OUT: 776.50	N INV OUT: 769.16

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: MILITARY ROAD	SHEET 92	E





160.1
RIM: 785.07
SUMP: 781.02
DEPTH: 4.05
SE INV OUT: 781.02

160.2
RIM: 785.61
SUMP: 780.75
DEPTH: 4.86
NW INV IN: 780.75
SE INV OUT: 780.75

160
RIM: 786.27
SUMP: 779.89
DEPTH: 6.38
NW INV IN: 780.64
SE INV IN: 780.64
NE INV OUT: 779.89

160.3
RIM: 785.62
SUMP: 780.74
DEPTH: 4.88
SE INV IN: 780.74
NW INV OUT: 780.74

160.4
RIM: 785.07
SUMP: 781.05
DEPTH: 4.02
NW INV OUT: 781.05

130.1
INV: 780.50

130
RIM: 785.73
SUMP: 777.24
DEPTH: 8.49
SW INV IN: 779.21
S INV IN: 777.65
NW INV IN: 777.65
NE INV OUT: 777.24

130.2
INV: 780.50

131.1
RIM: 781.93
SUMP: 778.95
DEPTH: 2.97
E INV OUT: 778.95

131.3
RIM: 783.31
SUMP: 778.23
DEPTH: 5.08
NW INV IN: 778.23
SE INV OUT: 778.23

131.7
RIM: 783.47
SUMP: 778.33
DEPTH: 5.15
S INV IN: 778.33
NW INV OUT: 778.33

131.5
RIM: 782.91
SUMP: 778.67
DEPTH: 4.24
SE INV IN: 778.67
NW INV OUT: 778.67

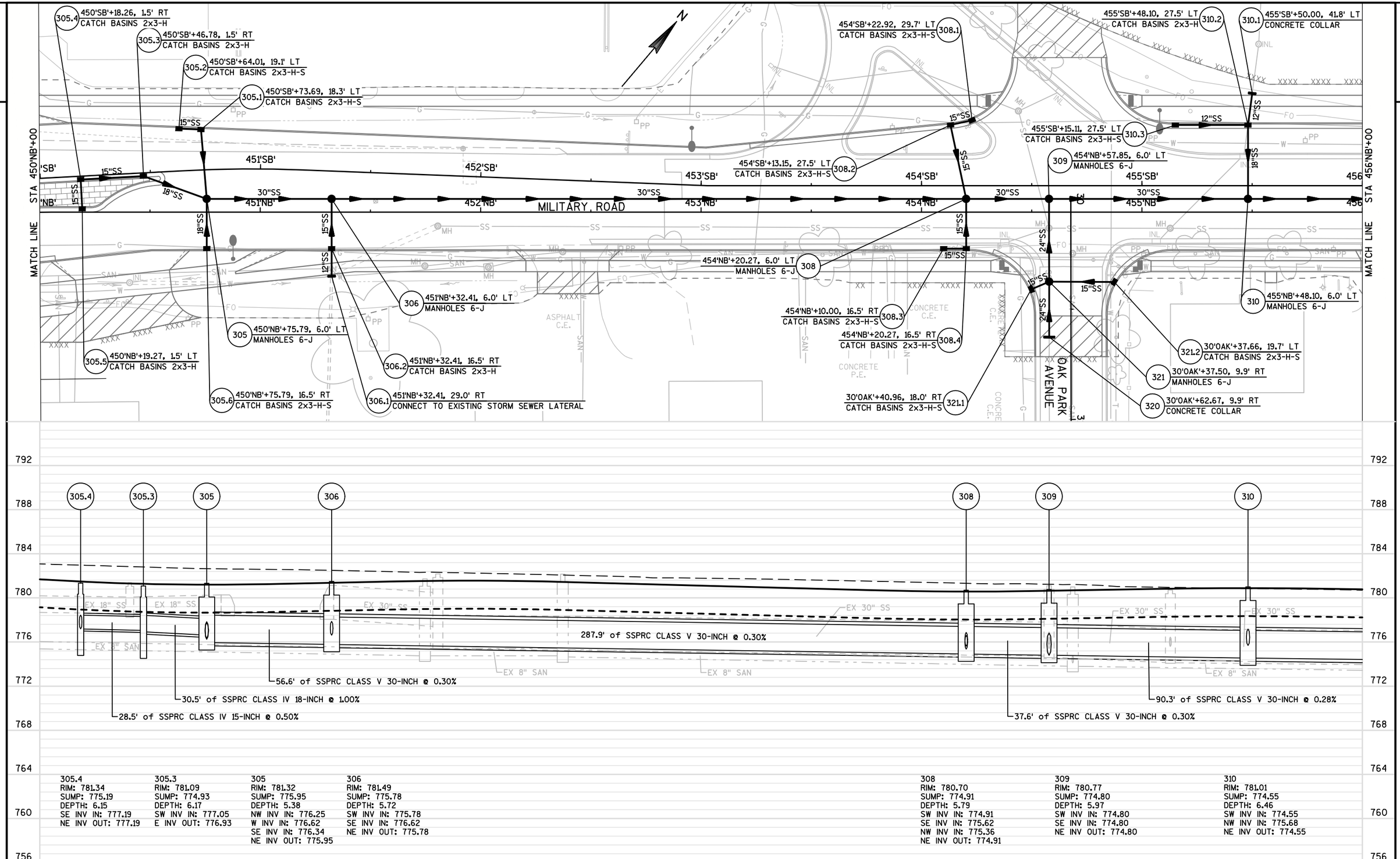
131.2
RIM: 782.74
SUMP: 778.58
DEPTH: 4.16
W INV IN: 778.58
SE INV OUT: 778.58

131
RIM: 784.03
SUMP: 776.50
DEPTH: 7.53
SW INV IN: 776.50
NW INV IN: 778.08
SE INV IN: 778.08
NE INV OUT: 776.50

131.6
RIM: 783.24
SUMP: 778.56
DEPTH: 4.68
SE INV IN: 778.56
N INV OUT: 778.56

131.4
RIM: 782.63
SUMP: 778.80
DEPTH: 3.83
NW INV OUT: 778.80

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: MILITARY ROAD	SHEET 93	E



305.4
RIM: 781.34
SUMP: 775.19
DEPTH: 6.15
SE INV IN: 777.19
NE INV OUT: 777.19

305.3
RIM: 781.09
SUMP: 774.93
DEPTH: 6.17
SW INV IN: 777.05
E INV OUT: 776.93

305
RIM: 781.32
SUMP: 775.95
DEPTH: 5.38
NW INV IN: 776.25
W INV IN: 776.62
SE INV IN: 776.34
NE INV OUT: 775.95

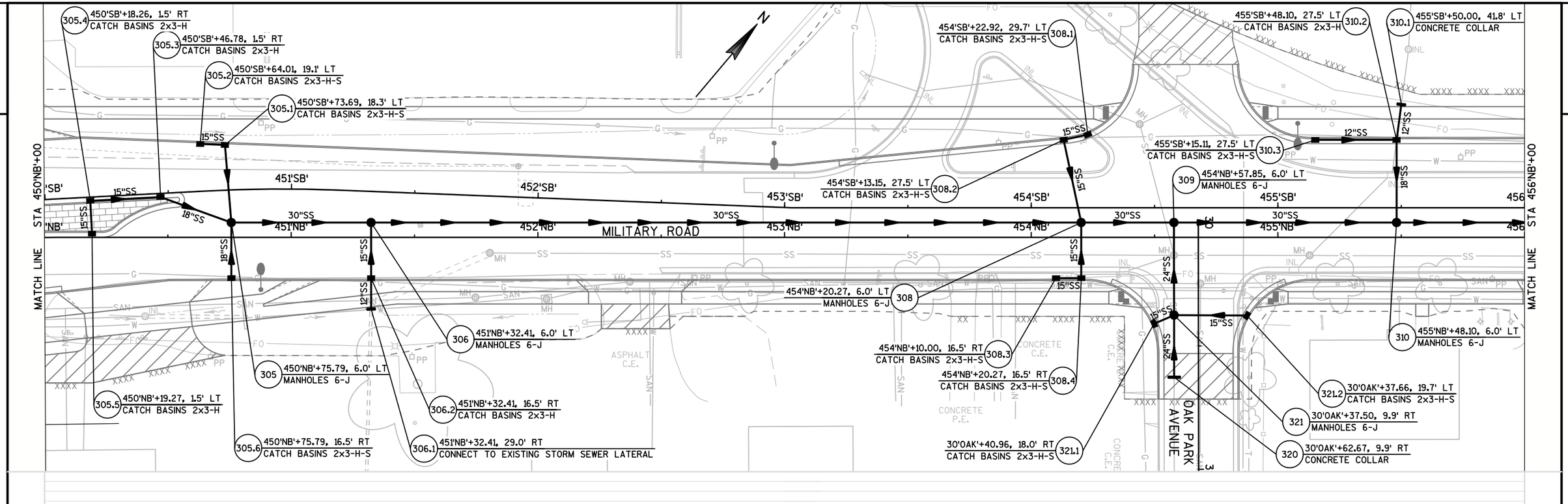
306
RIM: 781.49
SUMP: 775.78
DEPTH: 5.72
SW INV IN: 775.78
SE INV IN: 776.62
NE INV OUT: 775.78

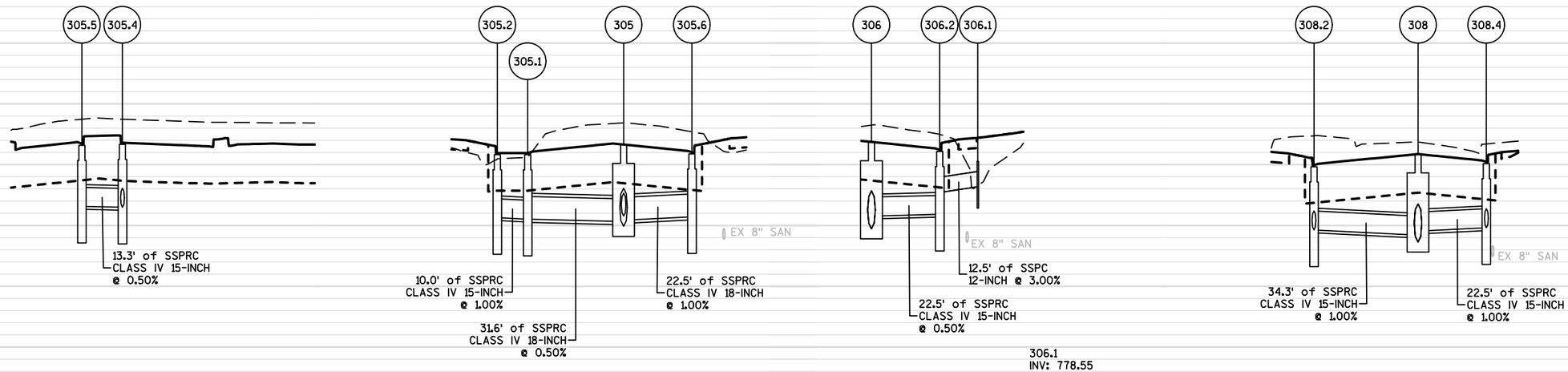
308
RIM: 780.70
SUMP: 774.91
DEPTH: 5.79
SW INV IN: 774.91
SE INV IN: 775.62
NW INV IN: 775.36
NE INV OUT: 774.91

309
RIM: 780.77
SUMP: 774.80
DEPTH: 5.97
SW INV IN: 774.80
SE INV IN: 774.80
NE INV OUT: 774.80

310
RIM: 781.01
SUMP: 774.55
DEPTH: 6.46
SW INV IN: 774.55
NW INV IN: 775.68
NE INV OUT: 774.55

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: MILITARY ROAD	SHEET 94	E





305.5
RIM: 781.28
SUMP: 775.26
DEPTH: 6.02
NW INV OUT: 777.26

305.4
RIM: 781.34
SUMP: 775.19
DEPTH: 6.15
SE INV IN: 777.19
NE INV OUT: 777.19

305.2
RIM: 780.65
SUMP: 774.51
DEPTH: 6.14
NE INV OUT: 776.51

305.1
RIM: 780.66
SUMP: 774.41
DEPTH: 6.25
SW INV IN: 776.41
SE INV OUT: 776.41

305
RIM: 781.32
SUMP: 775.95
DEPTH: 5.38
NW INV IN: 776.25
W INV IN: 776.62
SE INV IN: 776.34
NE INV OUT: 775.95

305.6
RIM: 780.71
SUMP: 774.57
DEPTH: 6.14
NW INV OUT: 776.57

306
RIM: 781.49
SUMP: 775.78
DEPTH: 5.72
SW INV IN: 775.78
SE INV IN: 776.62
NE INV OUT: 775.78

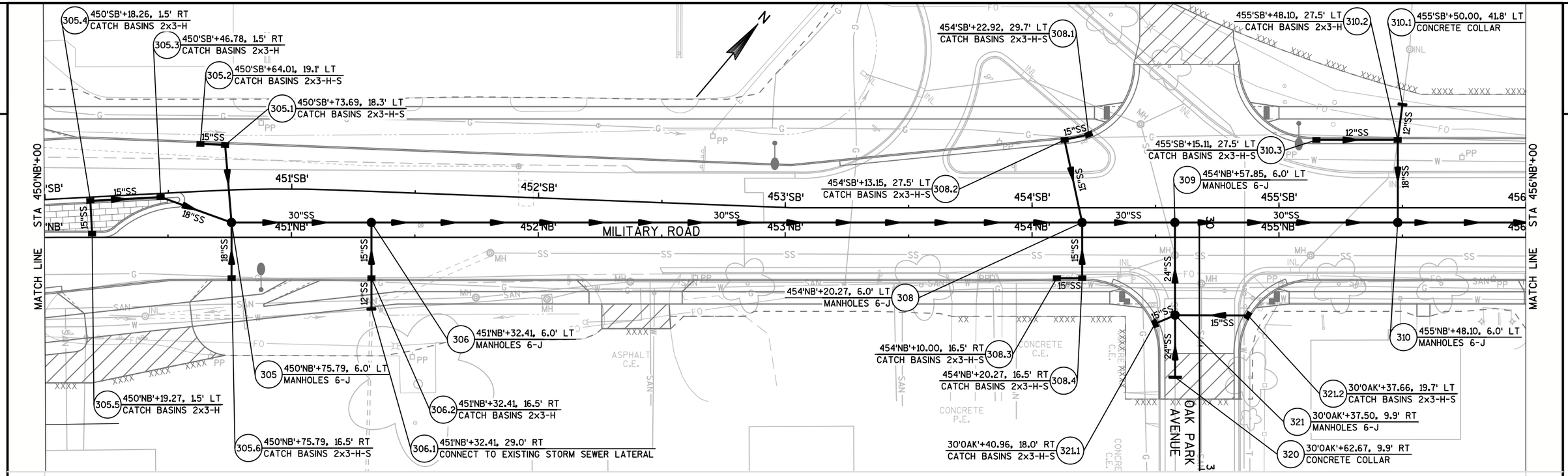
306.2
RIM: 780.87
SUMP: 774.73
DEPTH: 6.14
SE INV IN: 778.17
NW INV OUT: 776.73

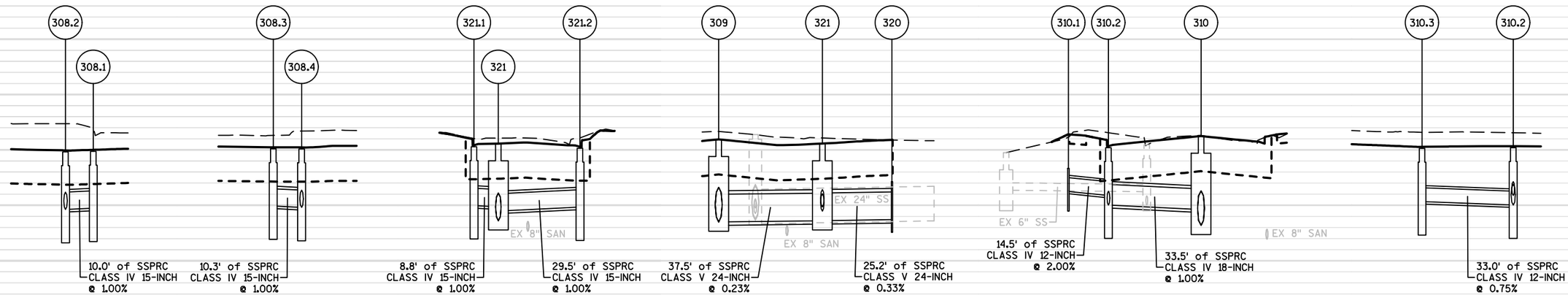
308.2
RIM: 779.86
SUMP: 773.70
DEPTH: 6.16
NE INV IN: 775.70
SE INV OUT: 775.70

308
RIM: 780.70
SUMP: 774.91
DEPTH: 5.79
SW INV IN: 774.91
SE INV IN: 775.62
NW INV IN: 775.36
NE INV OUT: 774.91

308.4
RIM: 780.08
SUMP: 773.85
DEPTH: 6.23
SW INV IN: 775.85
NW INV OUT: 775.85

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: MILITARY ROAD	SHEET 95	E

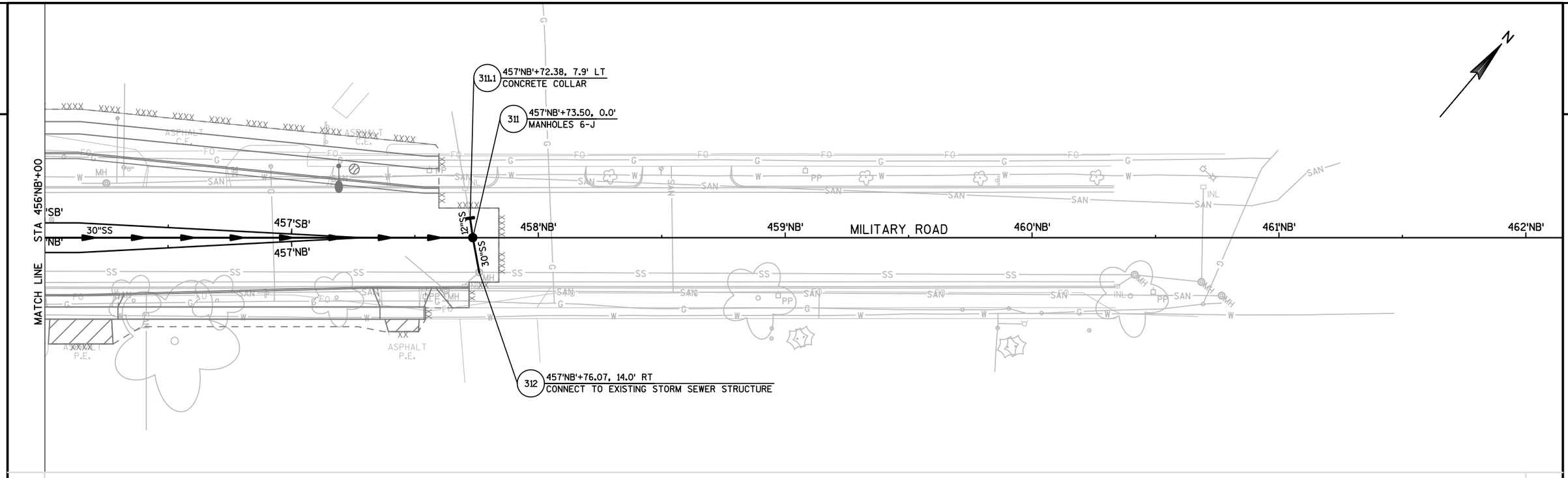




308.2	308.1	308.3	308.4	321.1	321.2	309	321	320	310.1	310.2	310	310.3
RIM: 779.86	RIM: 779.90	RIM: 780.09	RIM: 780.08	RIM: 780.23	RIM: 780.13	RIM: 780.77	RIM: 780.46	INV: 774.97	INV: 777.00	RIM: 780.16	RIM: 781.01	RIM: 780.12
SUMP: 773.70	SUMP: 773.80	SUMP: 773.95	SUMP: 773.85	SUMP: 773.98	SUMP: 773.88	SUMP: 774.80	SUMP: 774.89			SUMP: 774.02	SUMP: 774.55	SUMP: 774.27
DEPTH: 6.16	DEPTH: 6.10	DEPTH: 6.14	DEPTH: 6.23	DEPTH: 6.25	DEPTH: 6.25	DEPTH: 5.97	DEPTH: 5.58			DEPTH: 6.14	DEPTH: 6.46	DEPTH: 5.85
NE INV IN: 775.70	SW INV OUT: 775.80	NE INV OUT: 775.95	SW INV IN: 775.85	NE INV OUT: 775.98	SW INV OUT: 775.88	SW INV IN: 774.80	SE INV IN: 774.89			NW INV IN: 776.71	SW INV IN: 774.55	NE INV OUT: 776.27
SE INV OUT: 775.70			NW INV OUT: 775.85			SE INV IN: 774.80	NE INV IN: 775.58			SW INV IN: 776.02	NW INV OUT: 774.55	
						NE INV OUT: 774.80	SW INV IN: 775.89			SE INV OUT: 776.02		
							NW INV OUT: 774.89					

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: MILITARY ROAD	SHEET 96	E

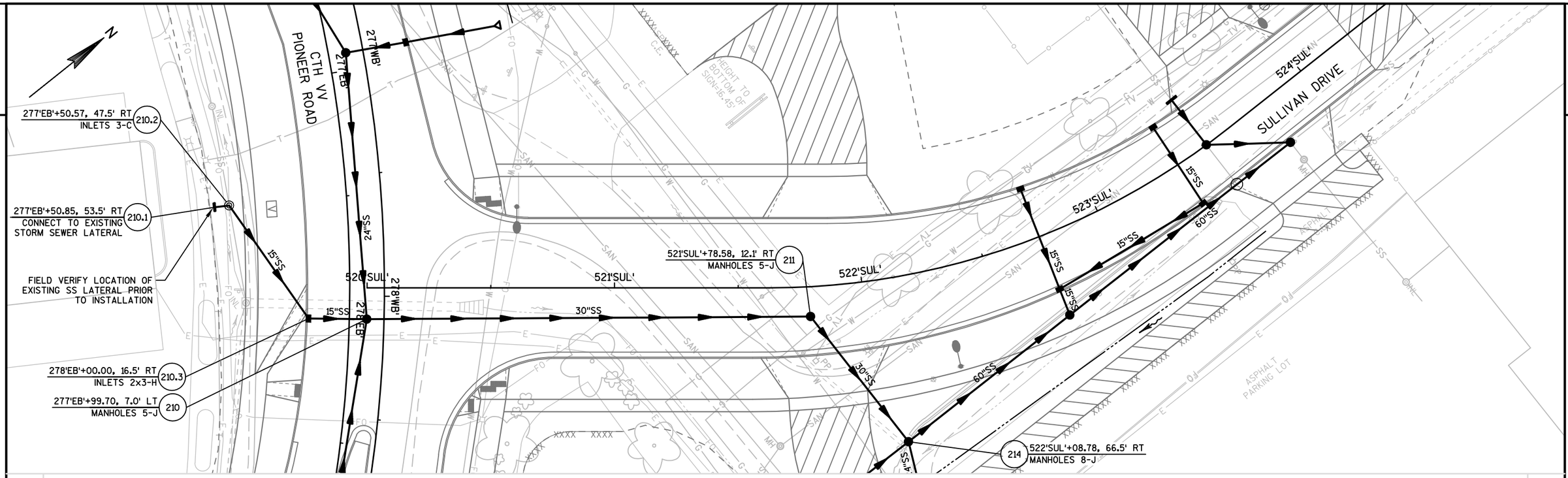
2

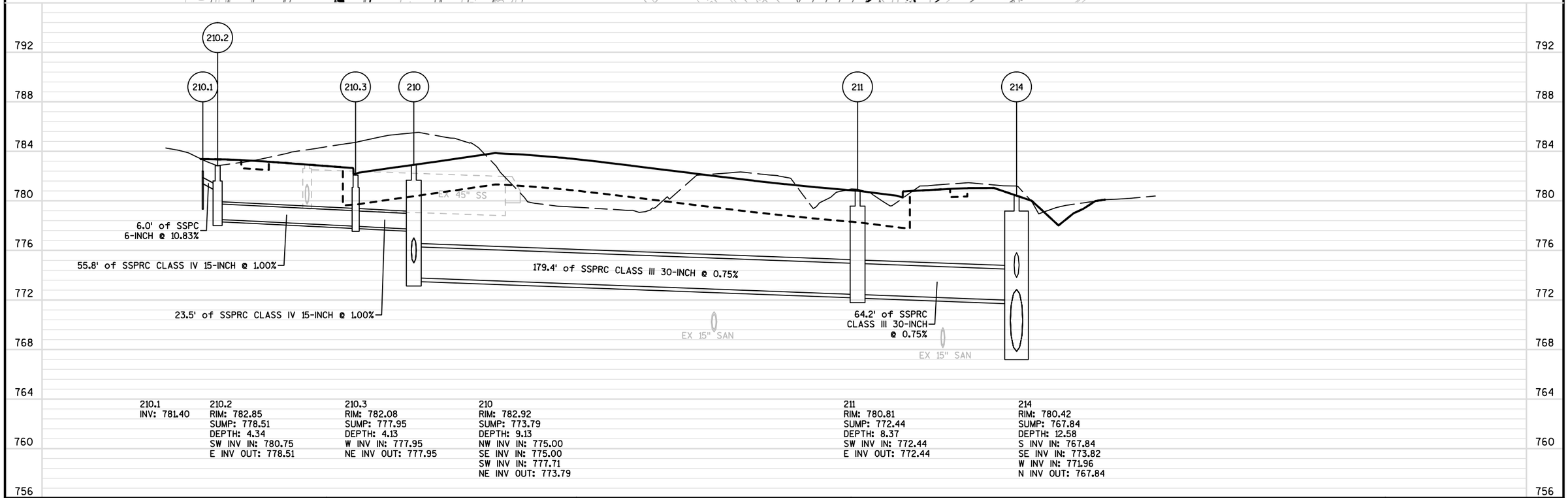


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: MILITARY ROAD	SHEET 97	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-022502-SS.DWG
LAYOUT NAME - 49860022-022502-SS-04-MILITARY-A
PLOT DATE : 7/29/2016 9:06 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

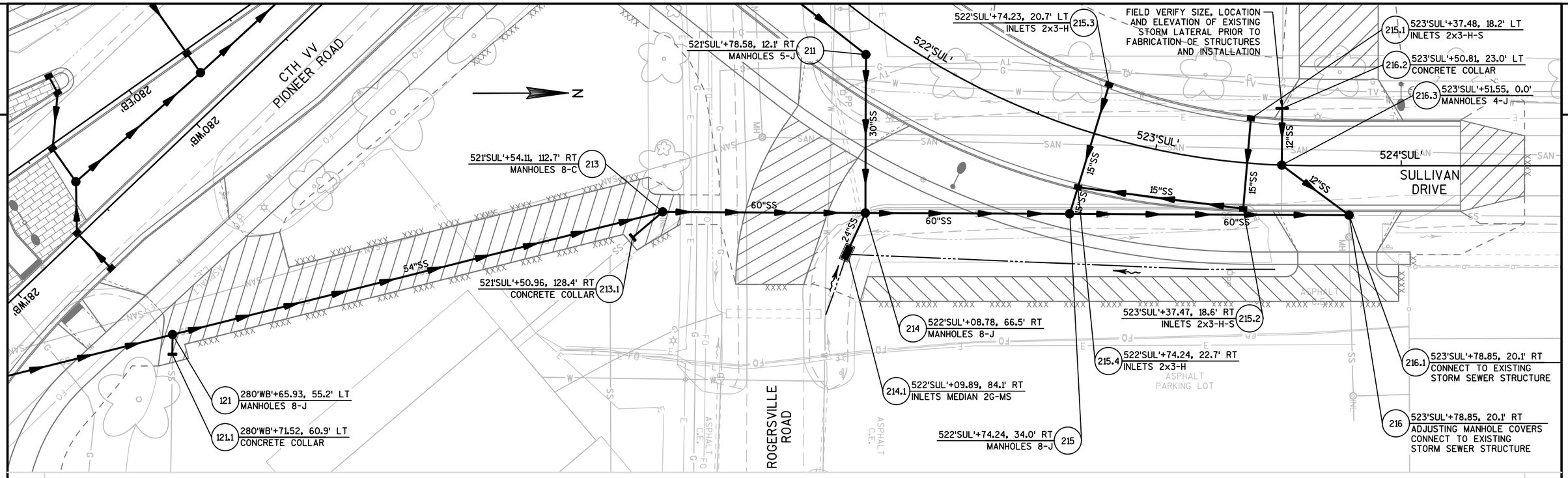


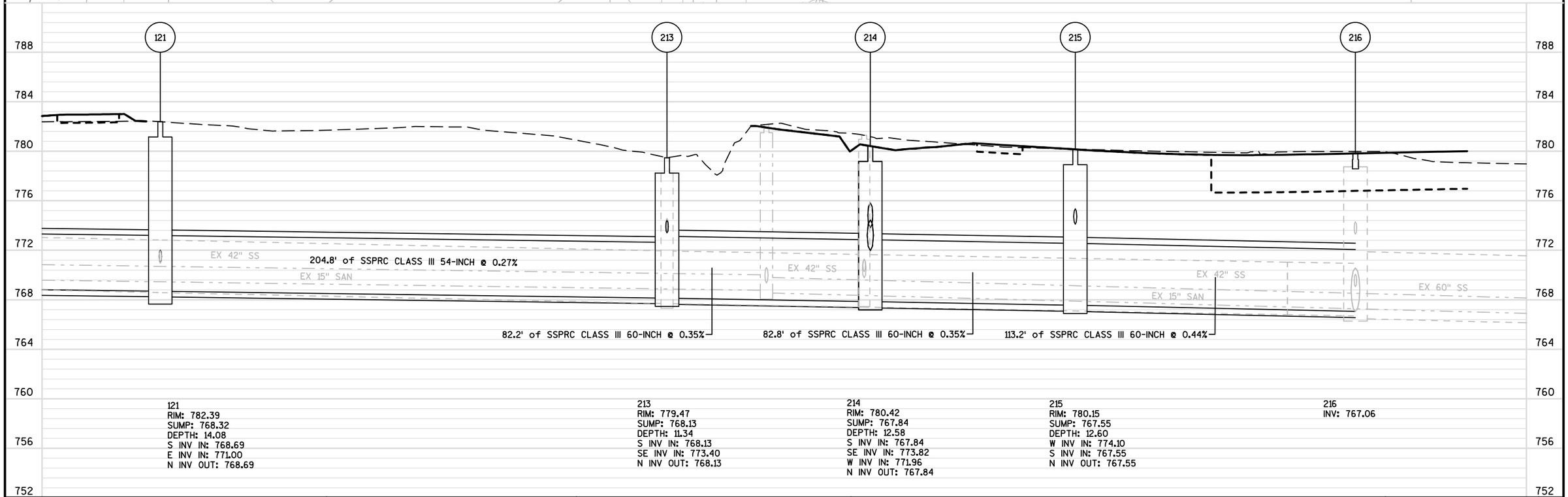


210.1	210.2	210.3	210	211	214
INV: 781.40	RIM: 782.85	RIM: 782.08	RIM: 782.92	RIM: 780.81	RIM: 780.42
	SUMP: 778.51	SUMP: 777.95	SUMP: 773.79	SUMP: 772.44	SUMP: 767.84
	DEPTH: 4.34	DEPTH: 4.13	DEPTH: 9.13	DEPTH: 8.37	DEPTH: 12.58
	SW INV IN: 780.75	W INV IN: 777.95	NW INV IN: 775.00	SW INV IN: 772.44	S INV IN: 767.84
	E INV OUT: 778.51	NE INV OUT: 777.95	SE INV IN: 775.00	E INV OUT: 772.44	SE INV IN: 773.82
			SW INV IN: 777.71		W INV IN: 771.96
			NE INV OUT: 773.79		N INV OUT: 767.84

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: SULLIVAN DRIVE	SHEET 98	E

2





121
RIM: 782.39
SUMP: 768.32
DEPTH: 14.08
S INV IN: 768.69
E INV IN: 771.00
N INV OUT: 768.69

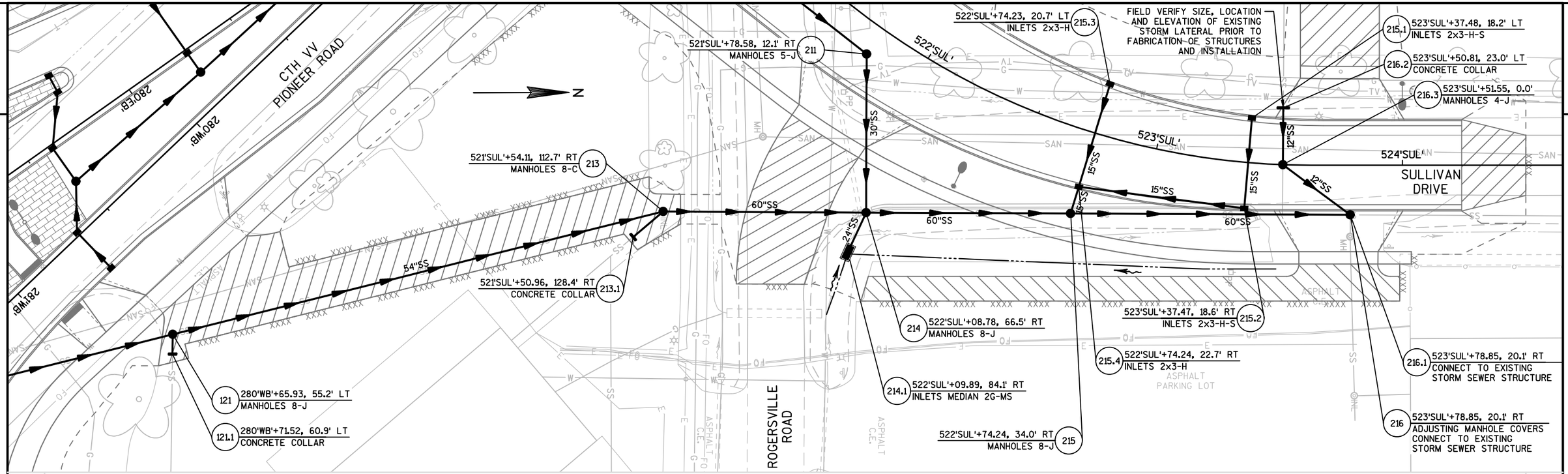
213
RIM: 779.47
SUMP: 768.13
DEPTH: 11.34
S INV IN: 768.13
SE INV IN: 773.40
N INV OUT: 768.13

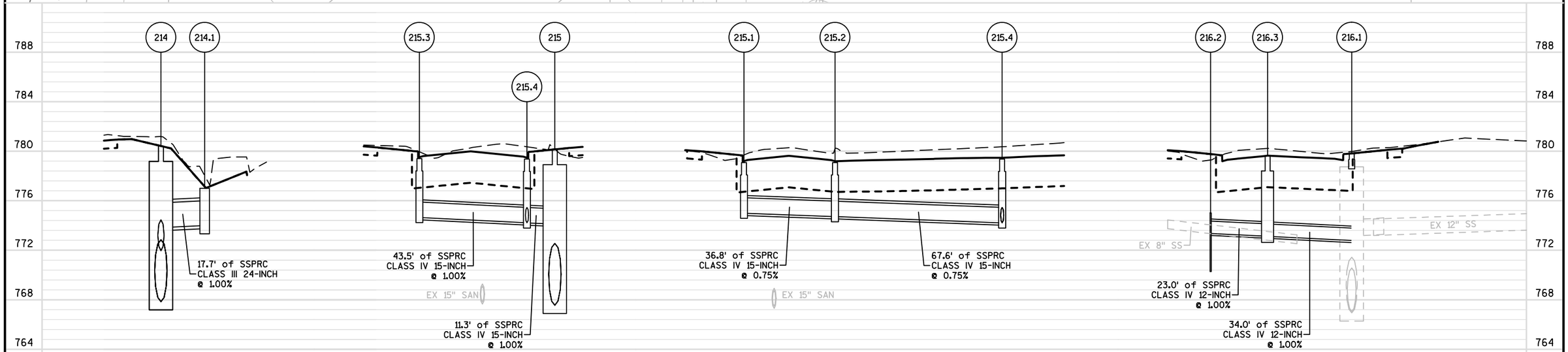
214
RIM: 780.42
SUMP: 767.84
DEPTH: 12.58
S INV IN: 767.84
SE INV IN: 773.82
W INV IN: 771.96
N INV OUT: 767.84

215
RIM: 780.15
SUMP: 767.55
DEPTH: 12.60
W INV IN: 774.10
S INV IN: 767.55
N INV OUT: 767.55

216
INV: 767.06

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: SULLIVAN DRIVE	SHEET 99	E





214
RIM: 780.42
SUMP: 767.84
DEPTH: 12.58
S INV IN: 767.84
SE INV IN: 773.82
W INV IN: 771.96
N INV OUT: 767.84

214.1
RIM: 777.00
SUMP: 774.00
DEPTH: 3.00
NW INV OUT: 774.00

215.3
RIM: 779.41
SUMP: 774.65
DEPTH: 4.76
E INV OUT: 774.65

215.4
RIM: 779.37
SUMP: 774.21
DEPTH: 5.16
W INV IN: 774.21
N INV IN: 774.21
E INV OUT: 774.21

215
RIM: 780.15
SUMP: 767.55
DEPTH: 12.60
W INV IN: 774.10
S INV IN: 767.55
N INV OUT: 767.55

215.1
RIM: 779.09
SUMP: 775.00
DEPTH: 4.10
E INV OUT: 775.00

215.2
RIM: 779.08
SUMP: 774.72
DEPTH: 4.36
W INV IN: 774.72
S INV OUT: 774.72

215.4
RIM: 779.37
SUMP: 774.21
DEPTH: 5.16
W INV IN: 774.21
N INV IN: 774.21
E INV OUT: 774.21

216.2
INV: 773.36

216.3
RIM: 779.64
SUMP: 773.13
DEPTH: 6.51
W INV IN: 773.13
NE INV OUT: 773.13

216.1
INV: 772.79

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	STORM SEWER: SULLIVAN DRIVE	SHEET 100	E

2

STORM SEWER STRUCTURE DATA

STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	SUMP DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
105	VV-EB	306+37.00	22.00	RT	MANHOLES 4-J	785.94	778.77	7.17'	0.00'	105.3-105 IN 105-106 OUT	SW NW	SSPRC CLASS IV 18-INCH SSPRC CLASS III 24-INCH	779.27 778.77	FROM STR: 105.3 TO STR: 106	-- 89.0'	-- 0.35%	
105.1	VV-EB	306+80.17	51.05	RT	CONCRETE COLLAR					105.1-105.2 OUT	N	SSPRC CLASS IV 18-INCH	781.25	TO STR: 105.2	6.0'	2.50%	
105.2	VV-EB	306+75.00	48.00	RT	MANHOLES 4-J	786.92	779.57	7.36'	0.00'	105.1-105.2 IN 105.2-105.3 OUT	S N	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	781.10 779.57	FROM STR: 105.1 TO STR: 105.3	-- 43.2'	-- 0.56%	
105.3	VV-EB	306+37.00	27.50	RT	INLETS 2X3-H	785.66	779.32	6.33'	0.00'	105.2-105.3 IN 105.3-105 OUT	S NE	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	779.32 779.32	FROM STR: 105.2 TO STR: 105	-- 5.5'	-- 1.00%	
106	VV-EB	305+48.00	22.00	RT	MANHOLES 4-J	785.51	778.46	7.05'	0.00'	105-106 IN 106.3-106 IN 106.4-106 IN 106-107 OUT	SE NE SW NW	SSPRC CLASS III 24-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH	778.46 780.70 780.31 778.46	FROM STR: 105 FROM STR: 106.3 FROM STR: 106.4 TO STR: 107	-- -- -- 204.8'	-- -- -- 0.35%	
106.1	VV-WB	305+48.00	-27.50	LT	INLETS 2X3-H	785.23	781.38	3.85'	0.00'	106.1-106.2 OUT	SW	SSPRC CLASS IV 15-INCH	781.38	TO STR: 106.2	38.0'	1.00%	
106.2	VV-WB	305+48.00	10.50	RT	INLETS 3-Z	786.01	781.00	5.01'	0.00'	106.1-106.2 IN 106.2-106.3 OUT	NE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	781.00 781.00	FROM STR: 106.1 TO STR: 106.3	-- 7.0'	-- 1.00%	
106.3	VV-EB	305+48.00	-0.50	LT	INLETS 3-Z	785.81	780.93	4.88'	0.00'	106.2-106.3 IN 106.3-106 OUT	NE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	780.93 780.93	FROM STR: 106.2 TO STR: 106	-- 22.5'	-- 1.00%	
106.4	VV-EB	305+45.77	57.05	RT	INLETS 2X3-H-S	784.80	780.66	4.14'	0.00'	106.4-106 OUT	NE	SSPRC CLASS IV 15-INCH	780.66	TO STR: 106	35.1'	1.00%	
107	VV-EB	303+43.24	28.00	RT	MANHOLES 6-J	784.40	777.74	6.66'	0.00'	106-107 IN 107.1-107 IN 107-108 OUT	SE SW NW	SSPRC CLASS III 24-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH	777.74 779.52 777.74	FROM STR: 106 FROM STR: 107.1 TO STR: 108	-- -- 133.2'	-- -- 0.35%	
107.1	VV-EB	303+49.72	59.00	RT	CONCRETE COLLAR					107.1-107 OUT	NE	SSPRC CLASS IV 15-INCH	780.15	TO STR: 107	31.7'	2.00%	
108	VV-EB	302+10.00	28.00	RT	MANHOLES 6-J	783.90	776.77	7.12'	0.00'	107-108 IN 108.3-108 IN 108.4-108 IN 108-109 OUT	SE NE SW NW	SSPRC CLASS III 24-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS III 30-INCH	777.27 778.53 778.91 776.77	FROM STR: 107 FROM STR: 108.3 FROM STR: 108.4 TO STR: 109	-- -- -- 313.1'	-- -- -- 0.35%	
108.1	VV-WB	302+10.00	-27.50	LT	INLETS 2X3-H-S	783.73	779.26	4.47'	0.00'	108.5-108.1 IN 108.1-108.2 OUT	SE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	779.51 779.26	FROM STR: 108.5 TO STR: 108.2	-- 28.0'	-- 1.00%	CONNECT TO PIPE UNDERDRAIN
108.2	VV-WB	302+10.00	0.50	RT	INLETS 3-Z	784.31	778.98	5.33'	0.00'	108.1-108.2 IN 108.2-108.3 OUT	NE SW	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	778.98 778.98	FROM STR: 108.1 TO STR: 108.3	-- 7.0'	-- 1.00%	
108.3	VV-EB	302+10.00	-10.50	LT	INLETS 3-Z	784.41	778.91	5.50'	0.00'	108.2-108.3 IN 108.3-108 OUT	NE SW	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	778.91 778.91	FROM STR: 108.2 TO STR: 108	-- 38.5'	-- 1.00%	
108.4	VV-EB	302+10.00	38.50	RT	INLETS 2X3-H-S	783.50	779.02	4.48'	0.00'	108.6-108.4 IN 108.4-108 OUT	SE NE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	779.27 779.02	FROM STR: 108.6 TO STR: 108	-- 10.5'	-- 1.10%	CONNECT TO PIPE UNDERDRAIN
108.5	VV-WB	302+20.00	-27.50	LT	INLETS 2X3-H-S	783.73	779.61	4.12'	0.00'	108.5-108.1 OUT	NW	SSPRC CLASS IV 15-INCH	779.61	TO STR: 108.1	10.0'	1.00%	
108.6	VV-EB	302+20.00	38.50	RT	INLETS 2X3-H-S	783.51	779.37	4.14'	0.00'	108.6-108.4 OUT	NW	SSPRC CLASS IV 15-INCH	779.37	TO STR: 108.4	10.0'	1.00%	
109	VV-EB	298+96.92	33.00	RT	MANHOLES 6-J	784.87	774.68	10.19'	0.00'	108-109 IN 109.4-109 IN 109A-109 IN 109-110 OUT	SE SW E NW	SSPRC CLASS III 30-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH SSPRC CLASS III 42-INCH	775.68 778.60 776.65 774.68	FROM STR: 108 FROM STR: 109.4 FROM STR: 109A TO STR: 110	-- -- -- 130.9'	-- -- -- 0.30%	
109.4	VV-EB	298+98.30	47.00	RT	CONCRETE COLLAR					109.4-109 OUT	NE	SSPRC CLASS IV 15-INCH	778.80	TO STR: 109	14.1'	1.42%	
109A	VV-WB	299+26.70	-35.86	LT	MANHOLES 6-J	785.06	777.56	7.50'	0.00'	109A.2-109A IN 109A.1-109A IN 109A-109 OUT	E N W	SSPRC CLASS III 24-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH	778.00 778.10 777.56	FROM STR: 109A.2 FROM STR: 109A.1 TO STR: 109	-- -- 91.8'	-- -- 0.99%	
109A.1	VV-WB	299+19.02	-38.11	LT	CONCRETE COLLAR					109A.1-109A OUT	S	SSPRC CLASS IV 15-INCH	778.30	TO STR: 109A	8.0'	2.50%	
109A.2	VV-WB	299+31.69	-42.11	LT	CONCRETE COLLAR					109A.2-109A OUT	W	SSPRC CLASS III 24-INCH	778.20	TO STR: 109A	8.0'	2.50%	
110	VV-EB	297+66.00	33.00	RT	MANHOLES 6-J	784.35	774.29	10.06'	0.00'	109-110 IN 110.4-110 IN 110-111 OUT	SE NE NW	SSPRC CLASS III 42-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 42-INCH	774.29 778.22 774.29	FROM STR: 109 FROM STR: 110.4 TO STR: 111	-- -- 93.0'	-- -- 0.30%	
110.1	VV-WB	297+66.00	-27.50	LT	INLETS 2X3-H	783.59	779.00	4.59'	0.00'	110.1-110.2 OUT	SW	SSPRC CLASS IV 15-INCH	779.00	TO STR: 110.2	38.0'	1.00%	CONNECT TO PIPE UNDERDRAIN

STORM SEWER STRUCTURE DATA

STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	SUMP DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
110.2	VV-WB	297+66.00	10.50	RT	INLETS 3-Z	784.37	778.62	5.75'	0.00'	110.1-110.2 IN 110.2-110.3 OUT	NE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.62 778.62	FROM STR: 110.1 TO STR: 110.3	-- 7.0'	-- 1.00%	
110.3	VV-EB	297+66.00	-0.50	LT	INLETS 3-Z	784.17	778.55	5.62'	0.00'	110.2-110.3 IN 110.3-110.4 OUT	NE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.55 778.55	FROM STR: 110.2 TO STR: 110.4	-- 28.0'	-- 1.00%	
110.4	VV-EB	297+66.00	27.50	RT	INLETS 2X3-H	783.59	778.27	5.32'	0.00'	110.3-110.4 IN 110.4-110 OUT	NE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.27 778.27	FROM STR: 110.3 TO STR: 110	-- 5.5'	-- 1.00%	
111	VV-EB	296+72.97	33.00	RT	MANHOLES 6-J	783.28	774.01	9.28'	0.00'	110-111 IN 111.1-111 IN 111-112 OUT	SE SW NW	SSPRC CLASS III 42-INCH SSPRC CLASS IV 12-INCH SSPRC CLASS III 42-INCH	774.01 776.60 774.01	FROM STR: 110 FROM STR: 111.1 TO STR: 112	-- -- 198.0'	-- -- 0.30%	
111.1	VV-EB	296+75.07	42.78	RT	CONCRETE COLLAR					111.1-111 OUT	NE	SSPRC CLASS IV 12-INCH	776.80	TO STR: 111	10.0'	2.00%	
112	VV-EB	294+75.00	28.00	RT	MANHOLES 8-J	782.66	772.91	9.75'	0.00'	111-112 IN 112.4-112 IN 112.3-112 IN 112-113 OUT	SE SW NE NW	SSPRC CLASS III 42-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS III 48-INCH	773.41 777.66 777.28 772.91	FROM STR: 111 FROM STR: 112.4 FROM STR: 112.3 TO STR: 113	-- -- -- 31.0'	-- -- -- 0.30%	
112.1	VV-WB	294+75.00	-27.50	LT	INLETS 2X3-H-S	782.50	778.02	4.48'	0.00'	112.5-112.1 IN 112.1-112.2 OUT	SE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	778.27 778.02	FROM STR: 112.5 TO STR: 112.2	-- 28.0'	-- 1.00%	CONNECT TO PIPE UNDERDRAIN
112.2	VV-WB	294+75.00	0.50	RT	INLETS 3-Z	783.08	777.74	5.35'	0.00'	112.1-112.2 IN 112.2-112.3 OUT	NE SW	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	777.74 777.74	FROM STR: 112.1 TO STR: 112.3	-- 17.0'	-- 1.00%	
112.3	VV-EB	294+75.00	-0.50	LT	INLETS 3-Z	783.08	777.57	5.52'	0.00'	112.2-112.3 IN 112.3-112 OUT	NE SW	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	777.57 777.57	FROM STR: 112.2 TO STR: 112	-- 28.5'	-- 1.00%	
112.4	VV-EB	294+75.00	38.50	RT	INLETS 2X3-H-S	782.28	777.78	4.50'	0.00'	112.6-112.4 IN 112.4-112 OUT	SE NE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	778.03 777.78	FROM STR: 112.6 TO STR: 112	-- 10.5'	-- 1.10%	CONNECT TO PIPE UNDERDRAIN
112.5	VV-WB	294+85.00	-27.50	LT	INLETS 2X3-H-S	782.51	778.37	4.14'	0.00'	112.5-112.1 OUT	NW	SSPRC CLASS IV 15-INCH	778.37	TO STR: 112.1	10.0'	1.00%	
112.6	VV-EB	294+85.00	38.50	RT	INLETS 2X3-H-S	782.29	778.13	4.16'	0.00'	112.6-112.4 OUT	NW	SSPRC CLASS IV 15-INCH	778.13	TO STR: 112.4	10.0'	1.00%	
113	VV-EB	294+44.00	28.00	RT	MANHOLES 8-J	782.72	772.82	9.90'	0.00'	112-113 IN 113.1-113 IN 113A-113 IN 113-114A OUT	SE SW NE NW	SSPRC CLASS III 48-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS III 24-INCH SSPRC CLASS III 48-INCH	772.82 776.40 774.50 772.82	FROM STR: 112 FROM STR: 113.1 FROM STR: 113A TO STR: 114A	-- -- -- 200.0'	-- -- -- 0.30%	
113.1	VV-EB	294+46.80	41.86	RT	CONCRETE COLLAR					113.1-113 OUT	NE	SSPRC CLASS IV 18-INCH	776.57	TO STR: 113	14.1'	1.20%	
113A	VV-WB	294+46.51	-31.00	LT	MANHOLES 6-J	783.22	775.32	7.90'	0.00'	113A.1-113A IN 113A.2-113A IN 113A-113 OUT	E N SW	SSPRC CLASS III 24-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH	776.20 778.50 775.32	FROM STR: 113A.1 FROM STR: 113A.2 TO STR: 113	-- -- 77.0'	-- -- 1.06%	
113A.1	VV-WB	294+52.36	-41.00	LT	CONCRETE COLLAR					113A.1-113A OUT	W	SSPRC CLASS III 24-INCH	776.40	TO STR: 113A	11.6'	1.73%	
113A.2	VV-WB	294+30.87	-49.19	LT	INLETS MEDIAN 1G-MS	781.24	778.74	2.50'	0.00'	113A.2-113A OUT	S	SSPRC CLASS IV 15-INCH	778.74	TO STR: 113A	24.0'	1.00%	
114	VV-EB	291+43.72	24.50	RT	MANHOLES 8-J	782.94	771.93	11.01'	0.00'	114A-114 IN 114.1-114 IN 114.2-114 IN 114-115 OUT	SE SW SW NW	SSPRC CLASS III 48-INCH SSPRC CLASS III 30-INCH SSPRC CLASS IV 12-INCH SSPRC CLASS III 48-INCH	771.93 774.38 778.52 771.93	FROM STR: 114A FROM STR: 114.1 FROM STR: 114.2 TO STR: 115	-- -- -- 99.3'	-- -- -- 0.30%	
114.1	VV-EB	291+47.90	45.82	RT	CONCRETE COLLAR					114.1-114 OUT	NE	SSPRC CLASS III 30-INCH	774.60	TO STR: 114	21.7'	1.00%	
114.2	VV-EB	291+38.00	83.40	RT	INLETS 3-C	783.00	779.00	4.00'	0.00'	114.2-114 OUT	NE	SSPRC CLASS IV 12-INCH	779.00	TO STR: 114	59.2'	0.81%	
114A	VV-EB	292+44.00	25.82	RT	MANHOLES 4T-J	783.31	771.80	11.50'	0.00'	113-114A IN 114A.1-114A IN 114A-114 OUT	SE SW NW	SSPRC CLASS III 48-INCH SSPRC CLASS IV 12-INCH SSPRC CLASS III 48-INCH	772.22 778.78 772.22	FROM STR: 113 FROM STR: 114A.1 TO STR: 114	-- -- 100.1'	-- -- 0.29%	
114A.1	VV-EB	292+44.00	48.00	RT	INLETS 3-C	783.51	779.00	4.51'	0.00'	114A.1-114A OUT	NE	SSPRC CLASS IV 12-INCH	779.00	TO STR: 114A	22.2'	1.00%	
115	VV-EB	290+44.54	36.00	RT	MANHOLES 8-J	783.17	771.12	12.05'	0.00'	114-115 IN 115.2-115 IN 115.1-115 IN 115-116 OUT	SE SW NE NW	SSPRC CLASS III 48-INCH SSPRC CLASS III 36-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 54-INCH	771.62 773.00 774.00 771.12	FROM STR: 114 FROM STR: 115.2 FROM STR: 115.1 TO STR: 116	-- -- -- 183.3'	-- -- -- 0.25%	
115.1	VV-WB	290+45.52	-50.00	LT	INLETS MEDIAN 1G-MS	781.00	777.12	3.88'	0.00'	115.1-115 OUT	SW	SSPRC CLASS IV 15-INCH	777.12	TO STR: 115	104.0'	3.00%	
115.2	VV-EB	290+46.26	45.85	RT	CONCRETE COLLAR					115.2-115 OUT	NE	SSPRC CLASS III 36-INCH	773.20	TO STR: 115	10.0'	2.00%	

STORM SEWER STRUCTURE DATA

STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	SUMP DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
116	VV-EB	288+60.05	36.00	RT	MANHOLES 8-J	782.50	770.67	11.84'	0.00'	115-116 IN 116.4-116 IN 116-117 OUT	SE NE NW	SSPRC CLASS III 54-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS III 54-INCH	770.67 774.09 770.67	FROM STR: 115 FROM STR: 116.4 TO STR: 117	-- -- 104.4'	-- -- 0.25%	
116.1	VV-WB	288+60.32	-27.50	LT	INLETS 2X3-H-S	781.65	777.52	4.13'	0.00'	116.5-116.1 IN 116.1-116.2 OUT	SE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	777.52 777.52	FROM STR: 116.5 TO STR: 116.2	-- 28.0'	-- 1.00%	CONNECT TO PIPE UNDERDRAIN
116.2	VV-WB	288+60.37	0.50	RT	INLETS 3-Z	782.23	777.24	4.99'	0.00'	116.1-116.2 IN 116.2-116.3 OUT	NE SW	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	777.24 777.24	FROM STR: 116.1 TO STR: 116.3	-- 12.4'	-- 1.00%	
116.3	VV-EB	288+59.99	-5.10	LT	INLETS 3-Z	782.16	774.50	7.65'	0.00'	116.2-116.3 IN 116.3-116.4 OUT	NE SW	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	777.12 774.50	FROM STR: 116.2 TO STR: 116.4	-- 32.6'	-- 1.00%	
116.4	VV-EB	288+60.05	27.50	RT	INLETS 2X3-H-S	781.65	774.18	7.47'	0.00'	116.3-116.4 IN 116.6-116.4 IN 116.4-116 OUT	NE SE SW	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	774.18 777.43 774.18	FROM STR: 116.3 FROM STR: 116.6 TO STR: 116	-- -- 8.5'	-- -- 1.00%	CONNECT TO PIPE UNDERDRAIN
116.5	VV-WB	288+70.00	-27.50	LT	INLETS 2X3-H-S	781.66	777.62	4.04'	0.00'	116.5-116.1 OUT	NW	SSPRC CLASS IV 15-INCH	777.62	TO STR: 116.1	9.7'	1.00%	
116.6	VV-EB	288+70.00	27.50	RT	INLETS 2X3-H-S	781.66	777.53	4.13'	0.00'	116.6-116.4 OUT	NW	SSPRC CLASS IV 15-INCH	777.53	TO STR: 116.4	9.9'	1.00%	
117	VV-EB	287+55.00	36.00	RT	MANHOLES 8-J	782.85	770.40	12.45'	0.00'	116-117 IN 117.4-117 IN 117-118 OUT	SE NE NW	SSPRC CLASS III 54-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 54-INCH	770.40 774.26 770.40	FROM STR: 116 FROM STR: 117.4 TO STR: 118	-- -- 82.8'	-- -- 0.25%	
117.1	VV-WB	287+55.07	-27.50	LT	INLETS 2X3-H	782.00	777.85	4.15'	0.00'	117.6-117.1 IN 117.1-117.2 OUT	NW SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.85 777.85	FROM STR: 117.6 TO STR: 117.2	-- 28.0'	-- 1.00%	
117.2	VV-WB	287+55.07	0.50	RT	INLETS 3-Z	782.58	777.57	5.01'	0.00'	117.1-117.2 IN 117.2-117.3 OUT	NE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.57 777.57	FROM STR: 117.1 TO STR: 117.3	-- 7.0'	-- 1.00%	
117.3	VV-EB	287+55.00	-10.50	LT	INLETS 3-Z	782.78	774.73	8.05'	0.00'	117.2-117.3 IN 117.3-117.4 OUT	NE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.50 774.73	FROM STR: 117.2 TO STR: 117.4	-- 38.0'	-- 1.00%	
117.4	VV-EB	287+55.00	27.50	RT	INLETS 2X3-H	782.00	774.35	7.65'	0.00'	117.3-117.4 IN 117.4-117 OUT	NE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	774.35 774.35	FROM STR: 117.3 TO STR: 117	-- 8.5'	-- 1.00%	
117.5	VV-WB	286+05.89	-40.99	LT	CONNECT TO EXISTING STORM SEWER LATERAL					117.5-117.6 OUT	SW	SSPC 6-INCH	782.00	TO STR: 117.6	13.5'	15.00%	
117.6	VV-WB	286+05.78	-27.50	LT	INLETS 2X3-H	782.36	778.45	3.91'	0.00'	117.5-117.6 IN 117.6-117.1 OUT	NE SE	SSPC 6-INCH SSPRC CLASS IV 15-INCH	779.98 778.45	FROM STR: 117.5 TO STR: 117.1	-- 150.3'	-- 0.40%	
118	VV-EB	286+72.04	36.00	RT	MANHOLES 8-J	783.18	770.20	12.98'	0.00'	117-118 IN 118A-118 IN 118-119 OUT	SE SW NW	SSPRC CLASS III 54-INCH SSPRC CLASS III 24-INCH SSPRC CLASS III 54-INCH	770.20 772.75 770.20	FROM STR: 117 FROM STR: 118A TO STR: 119	-- -- 200.7'	-- -- 0.25%	
118A	VV-EB	286+72.10	63.25	RT	MANHOLES 6-C	780.64	773.02	7.61'	0.00'	118A.1-118A IN 118A-118 OUT	SW NE	SSPRC CLASS III 24-INCH SSPRC CLASS III 24-INCH	773.02 773.02	FROM STR: 118A.1 TO STR: 118	-- 27.3'	-- 1.00%	
118A.1	VV-EB	286+72.13	69.89	RT	CONCRETE COLLAR					118A.1-118A OUT	NE	SSPRC CLASS III 24-INCH	773.12	TO STR: 118A	6.6'	1.45%	
119	VV-EB	284+67.00	12.00	RT	MANHOLES 8-J	782.35	769.70	12.66'	0.00'	118-119 IN 119.5-119 IN 119.6-119 IN 119-120 OUT	SE NE SW NW	SSPRC CLASS III 54-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS III 54-INCH	769.70 773.65 776.97 769.70	FROM STR: 118 FROM STR: 119.5 FROM STR: 119.6 TO STR: 120	-- -- -- 213.4'	-- -- -- 0.25%	
119.1	VV-WB	283+72.23	-74.14	LT	INLETS 3-C	782.00	778.60	3.40'	0.00'	119.1-119.2 OUT	SE	SSPRC CLASS IV 15-INCH	778.60	TO STR: 119.2	86.3'	1.59%	
119.2	VV-WB	284+50.00	-29.65	LT	INLETS 2X3-H-S	781.83	777.23	4.60'	0.00'	119.1-119.2 IN 119.2-119.3 OUT	NW SE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.23 777.23	FROM STR: 119.1 TO STR: 119.3	-- 12.0'	-- 1.25%	
119.3	VV-WB	284+61.93	-28.87	LT	INLETS 2X3-H-S	781.84	776.83	5.01'	0.00'	119.2-119.3 IN 119.3-119.4 OUT	NW SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	777.08 776.83	FROM STR: 119.2 TO STR: 119.4	-- 29.4'	-- 1.00%	CONNECT TO PIPE UNDERDRAIN
119.4	VV-WB	284+60.00	0.50	RT	INLETS 3-Z	782.45	773.95	8.50'	0.00'	119.3-119.4 IN 119.4-119.5 OUT	NE SW	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	776.54 773.95	FROM STR: 119.3 TO STR: 119.5	-- 17.4'	-- 1.00%	
119.5	VV-EB	284+67.00	-0.50	LT	INLETS 3-Z	782.45	773.77	8.68'	0.00'	119.4-119.5 IN 119.5-119 OUT	NE SW	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	773.77 773.77	FROM STR: 119.4 TO STR: 119	-- 12.5'	-- 1.00%	
119.6	VV-EB	284+67.00	27.50	RT	INLETS 2X3-H-S	781.87	777.13	4.75'	0.00'	119.7-119.6 IN 119.6-119 OUT	NW NE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	777.13 777.13	FROM STR: 119.7 TO STR: 119	-- 15.5'	-- 1.00%	CONNECT TO PIPE UNDERDRAIN
119.7	VV-EB	284+56.71	27.50	RT	INLETS 2X3-H-S	781.87	777.23	4.64'	0.00'	119.7-119.6 OUT	SE	SSPRC CLASS IV 15-INCH	777.23	TO STR: 119.6	10.3'	1.00%	

STORM SEWER STRUCTURE DATA

STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	SUMP DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
120	RAB-MILITARY	10+22.76	-29.03	LT	MANHOLES 8-J	784.03	769.16	14.87'	0.00'	131-120 IN 119-120 IN 120.3-120 IN 120-121 OUT	SW SE NE N	SSPRCHE CLASS HE-IV 34X53-INCH SSPRC CLASS III 54-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 54-INCH	776.05 769.16 777.28 769.16	FROM STR: 131 FROM STR: 119 FROM STR: 120.3 TO STR: 121	-- -- -- 187.8'	-- -- -- 0.25%	
120.1	RAB-MILITARY	11+00.00	-1.71	LT	INLETS 2X2.5-T	782.43	778.19	4.24'	0.00'	120.1-120.2 OUT	E	SSPRC CLASS IV 15-INCH	778.19	TO STR: 120.2	9.6'	1.00%	RUBBER ADJ RINGS REQ'D CONNECT TO PIPE UNDERDRAIN
120.2	RAB-MILITARY	10+90.00	-1.71	LT	INLETS 2X2.5-T	782.44	778.09	4.34'	0.00'	120.1-120.2 IN 120.2-120.3 OUT	W SE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.09 778.09	FROM STR: 120.1 TO STR: 120.3	-- 52.4'	-- 1.00%	RUBBER ADJ RINGS REQ'D
120.3	RAB-MILITARY	10+33.87	-1.71	LT	INLETS 2X2.5-T	782.74	777.57	5.17'	0.00'	120.2-120.3 IN 120.3-120 OUT	NW SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.57 777.57	FROM STR: 120.2 TO STR: 120	-- 29.5'	-- 1.00%	RUBBER ADJ RINGS REQ'D CONNECT TO PIPE UNDERDRAIN
121	VV-WB	280+65.93	-55.18	LT	MANHOLES 8-J	782.39	768.32	14.08'	0.38'	120-121 IN 121.1-121 IN 121-213 OUT	S E N	SSPRC CLASS III 54-INCH SSPRC CLASS IV 12-INCH SSPRC CLASS III 54-INCH	768.69 771.00 768.69	FROM STR: 120 FROM STR: 121.1 TO STR: 213	-- -- 204.8'	-- -- 0.27%	
121.1	VV-WB	280+71.52	-60.90	LT	CONCRETE COLLAR					121.1-121 OUT	W	SSPRC CLASS IV 12-INCH	771.40	TO STR: 121	8.0'	5.00%	
130	MILITARY-NB	445+15.78	-11.22	LT	MANHOLES 8-J	785.73	777.24	8.49'	0.00'	160-130 IN 130.2-130 IN 130.1-130 IN 130-131 OUT	SW S NW NE	SSPRC CLASS III 24-INCH SSPRCHE CLASS HE-IV 29X45-INCH SSPRCHE CLASS HE-IV 29X45-INCH SSPRCHE CLASS HE-IV 34X53-INCH	779.21 777.65 777.65 777.24	FROM STR: 160 FROM STR: 130.2 FROM STR: 130.1 TO STR: 131	-- -- -- 196.5'	-- -- -- 0.37%	
130.1	MILITARY-SB	444+91.00	-48.00	LT	APRON ENDWALLS FOR CPRCHE 29X45-INCH					130.1-130 OUT	SE	SSPRCHE CLASS HE-IV 29X45-INCH	780.50	TO STR: 130	63.7'	4.47%	
130.2	MILITARY-NB	444+88.53	58.92	RT	APRON ENDWALLS FOR CPRCHE 29X45-INCH					130.2-130 OUT	N	SSPRCHE CLASS HE-IV 29X45-INCH	780.50	TO STR: 130	75.5'	3.77%	
131	MILITARY-NB	447+06.97	-23.92	LT	MANHOLES 8-J	784.03	776.50	7.53'	0.00'	130-131 IN 131.3-131 IN 131.7-131 IN 131-120 OUT	SW NW SE NE	SSPRCHE CLASS HE-IV 34X53-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH SSPRCHE CLASS HE-IV 34X53-INCH	776.50 778.08 778.08 776.50	FROM STR: 130 FROM STR: 131.3 FROM STR: 131.7 TO STR: 120	-- -- -- 114.0'	-- -- -- 0.40%	
131.1	MILITARY-SB	446+92.47	-66.76	LT	INLETS MEDIAN 1G-MS	781.93	778.95	2.97'	0.00'	131.1-131.2 OUT	E	SSPRC CLASS IV 15-INCH	778.95	TO STR: 131.2	38.6'	0.97%	
131.2	MILITARY-SB	447+12.18	-33.55	LT	INLETS 2X3-HC	782.74	778.58	4.16'	0.00'	131.1-131.2 IN 131.2-131.3 OUT	W SE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.58 778.58	FROM STR: 131.1 TO STR: 131.3	-- 35.3'	-- 1.00%	
131.3	MILITARY-SB	447+16.62	1.50	RT	INLETS 2X3-H	783.31	778.23	5.08'	0.00'	131.2-131.3 IN 131.3-131 OUT	NW SE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.23 778.23	FROM STR: 131.2 TO STR: 131	-- 14.4'	-- 1.00%	
131.4	MILITARY-NB	446+97.88	52.79	RT	INLETS 2X3-H-S	782.63	778.80	3.83'	0.00'	131.4-131.5 OUT	NW	SSPRC CLASS IV 15-INCH	778.80	TO STR: 131.5	17.3'	0.75%	
131.5	MILITARY-NB	446+95.23	35.57	RT	INLETS 2X3-H-S	782.91	778.67	4.24'	0.00'	131.4-131.5 IN 131.5-131.6 OUT	SE NW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.67 778.67	FROM STR: 131.4 TO STR: 131.6	-- 14.4'	-- 0.75%	
131.6	MILITARY-NB	446+92.73	21.36	RT	INLETS 2X3-HC	783.24	778.56	4.68'	0.00'	131.5-131.6 IN 131.6-131.7 OUT	SE N	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.56 778.56	FROM STR: 131.5 TO STR: 131.7	-- 31.4'	-- 0.75%	
131.7	MILITARY-NB	447+15.84	-1.50	LT	INLETS 2X3-H	783.47	778.33	5.15'	0.00'	131.6-131.7 IN 131.7-131 OUT	S NW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.33 778.33	FROM STR: 131.6 TO STR: 131	-- 24.4'	-- 1.00%	
160	MILITARY-NB	444+81.26	-10.96	LT	MANHOLES 6-J	786.27	779.89	6.38'	0.00'	160.2-160 IN 160.3-160 IN 160-130 OUT	NW SE NE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH	780.64 780.64 779.89	FROM STR: 160.2 FROM STR: 160.3 TO STR: 130	-- -- 34.1'	-- -- 2.00%	
160.1	MILITARY-SB	444+84.90	-25.50	LT	INLETS 2X3-H	785.07	781.02	4.05'	0.00'	160.1-160.2 OUT	SE	SSPRC CLASS IV 15-INCH	781.02	TO STR: 160.2	27.2'	1.00%	
160.2	MILITARY-SB	444+81.46	1.50	RT	INLETS 2X3-H	785.61	780.75	4.86'	0.00'	160.1-160.2 IN 160.2-160 OUT	NW SE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	780.75 780.75	FROM STR: 160.1 TO STR: 160	-- 9.5'	-- 1.13%	
160.3	MILITARY-NB	444+81.00	-1.51	LT	INLETS 2X3-H	785.62	780.74	4.88'	0.00'	160.4-160.3 IN 160.3-160 OUT	SE NW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	780.74 780.74	FROM STR: 160.4 TO STR: 160	-- 9.5'	-- 1.00%	
160.4	MILITARY-NB	444+79.90	29.81	RT	INLETS 2X3-H	785.07	781.05	4.02'	0.00'	160.4-160.3 OUT	NW	SSPRC CLASS IV 15-INCH	781.05	TO STR: 160.3	31.3'	1.00%	
161.1	MILITARY-SB	442+99.70	-25.27	LT	ADJUSTING INLET COVERS	788.99											
161.2	MILITARY-SB	442+99.33	1.79	RT	INLET COVERS TYPE H	789.44											
161.3	MILITARY-NB	442+99.59	-1.50	LT	ADJUSTING INLET COVERS	789.52											

STORM SEWER STRUCTURE DATA

STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	SUMP DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
161.4	MILITARY-NB	443+00.32	25.50	RT	ADJUSTING INLET COVERS	789.02				161.4-161.5 OUT	SE	SSPRC CLASS IV 18-INCH	784.00	TO STR: 161.5	33.0'	2.00%	
161.5	MILITARY-NB	443+08.52	57.50	RT	APRON ENDWALLS FOR CPRC 18-INCH					161.4-161.5 IN	NW	SSPRC CLASS IV 18-INCH	783.34	FROM STR: 161.4	--	--	
162.1	MILITARY-NB	439+81.87	-18.17	LT	SALVAGED INLET COVERS INLET COVERS TYPE HC	799.47											
162.2	MILITARY-NB	439+80.87	-1.07	LT	SALVAGED INLET COVERS INLET COVERS TYPE HC	799.48											
205	VV-EB	273+40.00	20.00	RT	MANHOLES 4-J	784.48	777.74	6.73'	0.00'	205.2-205 IN 205.1-205 IN 205-206 OUT	S N E	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH	779.00 779.00 777.74	FROM STR: 205.2 FROM STR: 205.1 TO STR: 206	-- -- 171.1'	-- -- 0.60%	
205.1	VV-WB	273+38.00	-37.00	LT	INLETS MEDIAN 2G-MS	781.78	779.67	2.11'	0.00'	205.1-205 OUT	S	SSPRC CLASS IV 15-INCH	779.67	TO STR: 205	66.8'	1.00%	
205.2	VV-EB	273+40.00	43.00	RT	INLETS MEDIAN 2G-MS	781.72	779.23	2.49'	0.00'	205.2-205 OUT	N	SSPRC CLASS IV 15-INCH	779.23	TO STR: 205	23.0'	1.00%	
206	VV-EB	275+14.00	24.08	RT	MANHOLES 6-J	783.17	776.71	6.45'	0.00'	205-206 IN 206.1-206 IN 206-206B OUT	W S E	SSPRC CLASS III 24-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS III 24-INCH	776.71 778.00 776.71	FROM STR: 205 FROM STR: 206.1 TO STR: 206B	-- -- 79.5'	-- -- 0.60%	
206.1	VV-EB	275+11.98	33.01	RT	INLETS 2X3-H-S	782.83	778.09	4.74'	0.00'	206A-206.1 IN 206.1-206 OUT	S N	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	778.09 778.09	FROM STR: 206A TO STR: 206	-- 9.1'	-- 1.00%	
206A	VV-EB	275+17.24	56.01	RT	MANHOLES 4-C	782.10	778.33	3.77'	0.00'	206A.2-206A IN 206A.1-206A IN 206A-206.1 OUT	E S N	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 12-INCH SSPRC CLASS IV 18-INCH	778.58 778.83 778.33	FROM STR: 206A.2 FROM STR: 206A.1 TO STR: 206.1	-- -- 23.5'	-- -- 1.00%	
206A.1	VV-EB	275+19.99	80.89	RT	CONCRETE COLLAR					206A.1-206A OUT	N	SSPRC CLASS IV 12-INCH	781.16	TO STR: 206A	25.0'	9.32%	
206A.2	VV-EB	275+32.02	53.12	RT	INLETS 2X3-H-S	782.60	778.71	3.88'	0.00'	206A.2-206A OUT	W	SSPRC CLASS IV 15-INCH	778.71	TO STR: 206A	13.5'	1.00%	
206B	VV-EB	275+97.00	20.00	RT	MANHOLES 6-J	782.95	776.24	6.72'	0.00'	206-206B IN 206B.2-206B IN 206B-207 OUT	W SW E	SSPRC CLASS III 24-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH	776.24 777.73 776.24	FROM STR: 206 FROM STR: 206B.2 TO STR: 207	-- -- 98.4'	-- -- 0.60%	
206B.1	VV-EB	275+92.81	73.33	RT	APRON ENDWALLS FOR CPRC 15-INCH					206B.1-206B.2 OUT	N	SSPRC CLASS IV 15-INCH	780.80	TO STR: 206B.2	40.3'	6.96%	
206B.2	VV-EB	275+92.61	33.08	RT	INLETS 2X3-H-S	782.51	778.00	4.51'	0.00'	206B.1-206B.2 IN 206B.2-206B OUT	S NE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	778.00 778.00	FROM STR: 206B.1 TO STR: 206B	-- 13.7'	-- 2.00%	
207	VV-EB	276+93.00	-7.00	LT	MANHOLES 5-J	783.35	775.65	7.70'	0.00'	206B-207 IN 207.1-207 IN 207-210 OUT	W NE SE	SSPRC CLASS III 24-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH	775.65 778.96 775.65	FROM STR: 206B FROM STR: 207.1 TO STR: 210	-- -- 107.9'	-- -- 0.60%	
207.1	VV-WB	277+00.00	-17.60	LT	INLETS 2X3-H	783.81	779.67	4.14'	0.00'	207.2-207.1 IN 207.1-207 OUT	NE SW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	779.67 779.67	FROM STR: 207.2 TO STR: 207	-- 24.6'	-- 2.90%	
207.2	VV-WB	277+00.00	-54.00	LT	APRON ENDWALLS FOR CPRC 15-INCH					207.2-207.1 OUT	SW	SSPRC CLASS IV 15-INCH	780.40	TO STR: 207.1	36.4'	2.00%	
208	VV-EB	280+39.00	-17.88	LT	MANHOLES 4-J	782.72	776.21	6.51'	0.00'	208.5-208 IN 208.2-208 IN 208-209 OUT	SW E NW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 24-INCH	777.26 777.26 776.21	FROM STR: 208.5 FROM STR: 208.2 TO STR: 209	-- -- 67.1'	-- -- 0.50%	
208.1	VV-WB	280+65.50	-18.50	LT	INLETS 2X3-HC	781.58	777.68	3.89'	0.00'	208.1-208.2 OUT	SW	SSPRC CLASS IV 15-INCH	777.68	TO STR: 208.2	20.0'	1.00%	CONNECT TO PIPE UNDERDRAIN
208.2	VV-WB	280+65.50	1.50	RT	INLETS 2X3-H-S	781.92	777.48	4.43'	0.00'	208.1-208.2 IN 208.2-208 OUT	NE W	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.48 777.48	FROM STR: 208.1 TO STR: 208	-- 20.6'	-- 1.11%	
208.3	VV-EB	280+23.33	23.34	RT	INLETS 2X3-H	781.70	777.72	3.97'	0.00'	208.3-208.4 OUT	NE	SSPRC CLASS IV 15-INCH	777.72	TO STR: 208.4	7.6'	1.00%	
208.4	VV-EB	280+24.26	15.78	RT	INLETS 2X3-H	781.84	777.65	4.20'	0.00'	208.3-208.4 IN 208.4-208.5 OUT	SW E	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.65 777.65	FROM STR: 208.3 TO STR: 208.5	-- 22.7'	-- 1.00%	
208.5	VV-EB	280+39.00	-1.50	LT	INLETS 2X3-H	782.17	777.42	4.75'	0.00'	208.4-208.5 IN 208.5-208 OUT	W NE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.42 777.42	FROM STR: 208.4 TO STR: 208	-- 16.4'	-- 1.00%	
209	VV-EB	279+72.25	-11.00	LT	MANHOLES 6-J	782.68	775.87	6.81'	0.00'	208-209 IN 209.3-209 IN 209-210 OUT	SE SW NW	SSPRC CLASS III 24-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS III 24-INCH	775.87 776.37 775.87	FROM STR: 208 FROM STR: 209.3 TO STR: 210	-- -- 174.2'	-- -- 0.50%	

STORM SEWER STRUCTURE DATA

STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	SUMP DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
209.1	VV-EB	279+57.33	64.39	RT	INLETS 3-C	783.09	776.96	6.13'	0.00'	209.1-209.2 OUT	E	SSPRC CLASS IV 18-INCH	776.96	TO STR: 209.2	31.8'	0.75%	
209.2	VV-EB	279+72.25	36.32	RT	INLETS 2X3-H-S	781.23	776.73	4.50'	0.00'	209.1-209.2 IN 209.4-209.2 IN 209.2-209.3 OUT	W SE NE	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	776.73 776.98 776.73	FROM STR: 209.1 FROM STR: 209.4 TO STR: 209.3	-- -- 37.8'	-- -- 0.75%	CONNECT TO PIPE UNDERDRAIN
209.3	VV-EB	279+72.25	-1.50	LT	INLETS 2X3-H-S	781.91	776.44	5.46'	0.00'	209.2-209.3 IN 209.3-209 OUT	SW NE	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH	776.44 776.44	FROM STR: 209.2 TO STR: 209	-- 9.5'	-- 0.75%	
209.4	VV-EB	279+82.05	38.33	RT	INLETS 2X3-H-S	781.35	777.08	4.27'	0.00'	209.4-209.2 OUT	NW	SSPRC CLASS IV 15-INCH	777.08	TO STR: 209.2	10.0'	1.00%	
210	VV-EB	277+99.70	-7.00	LT	MANHOLES 5-J	782.92	773.79	9.13'	0.00'	207-210 IN 209-210 IN 210.3-210 IN 210-211 OUT	NW SE SW NE	SSPRC CLASS III 24-INCH SSPRC CLASS III 24-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS III 30-INCH	775.00 775.00 777.71 773.79	FROM STR: 207 FROM STR: 209 FROM STR: 210.3 TO STR: 211	-- -- -- 179.4'	-- -- -- 0.75%	
210.1	VV-EB	277+50.85	53.53	RT	CONNECT TO EXISTING STORM SEWER LATERAL					210.1-210.2 OUT	NE	SSPC 6-INCH	781.40	TO STR: 210.2	6.0'	10.83%	
210.2	VV-EB	277+50.57	47.54	RT	INLETS 3-C	782.85	778.51	4.34'	0.00'	210.1-210.2 IN 210.2-210.3 OUT	SW E	SSPC 6-INCH SSPRC CLASS IV 15-INCH	780.75 778.51	FROM STR: 210.1 TO STR: 210.3	-- 55.8'	-- 1.00%	
210.3	VV-EB	278+00.00	16.50	RT	INLETS 2X3-H	782.08	777.95	4.13'	0.00'	210.2-210.3 IN 210.3-210 OUT	W NE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.95 777.95	FROM STR: 210.2 TO STR: 210	-- 23.5'	-- 1.00%	
211	SULLIVAN	521+78.58	12.07	RT	MANHOLES 5-J	780.81	772.44	8.37'	0.00'	210-211 IN 211-214 OUT	SW E	SSPRC CLASS III 30-INCH SSPRC CLASS III 30-INCH	772.44 772.44	FROM STR: 210 TO STR: 214	-- 64.2'	-- 0.75%	
213	SULLIVAN	521+54.11	112.69	RT	MANHOLES 8-C	779.47	768.13	11.34'	0.00'	121-213 IN 213.1-213 IN 213-214 OUT	S SE N	SSPRC CLASS III 54-INCH SSPRC CLASS IV 12-INCH SSPRC CLASS III 60-INCH	768.13 773.40 768.13	FROM STR: 121 FROM STR: 213.1 TO STR: 214	-- -- 82.2'	-- -- 0.35%	
213.1	SULLIVAN	521+50.96	128.37	RT	CONCRETE COLLAR					213.1-213 OUT	NW	SSPRC CLASS IV 12-INCH	773.57	TO STR: 213	16.0'	1.06%	
214	SULLIVAN	522+08.78	66.54	RT	MANHOLES 8-J	780.42	767.84	12.58'	0.00'	213-214 IN 214.1-214 IN 211-214 IN 214-215 OUT	S SE W N	SSPRC CLASS III 60-INCH SSPRC CLASS III 24-INCH SSPRC CLASS III 30-INCH SSPRC CLASS III 60-INCH	767.84 773.82 771.96 767.84	FROM STR: 213 FROM STR: 214.1 FROM STR: 211 TO STR: 215	-- -- -- 82.8'	-- -- -- 0.35%	
214.1	SULLIVAN	522+09.89	84.15	RT	INLETS MEDIAN 2G-MS	777.00	774.00	3.00'	0.00'	214.1-214 OUT	NW	SSPRC CLASS III 24-INCH	774.00	TO STR: 214	17.7'	1.00%	
215	SULLIVAN	522+74.24	34.00	RT	MANHOLES 8-J	780.15	767.55	12.60'	0.00'	215.4-215 IN 214-215 IN 215-216 OUT	W S N	SSPRC CLASS IV 15-INCH SSPRC CLASS III 60-INCH SSPRC CLASS III 60-INCH	774.10 767.55 767.55	FROM STR: 215.4 FROM STR: 214 TO STR: 216	-- -- 113.2'	-- -- 0.44%	
215.1	SULLIVAN	523+37.48	-18.16	LT	INLETS 2X3-H-S	779.09	775.00	4.10'	0.00'	215.1-215.2 OUT	E	SSPRC CLASS IV 15-INCH	775.00	TO STR: 215.2	36.8'	0.75%	CONNECT TO PIPE UNDERDRAIN
215.2	SULLIVAN	523+37.47	18.61	RT	INLETS 2X3-H-S	779.08	774.72	4.36'	0.00'	215.1-215.2 IN 215.2-215.4 OUT	W S	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	774.72 774.72	FROM STR: 215.1 TO STR: 215.4	-- 67.6'	-- 0.75%	CONNECT TO PIPE UNDERDRAIN
215.3	SULLIVAN	522+74.23	-20.75	LT	INLETS 2X3-H	779.41	774.65	4.76'	0.00'	215.3-215.4 OUT	E	SSPRC CLASS IV 15-INCH	774.65	TO STR: 215.4	43.5'	1.00%	
215.4	SULLIVAN	522+74.24	22.74	RT	INLETS 2X3-H	779.37	774.21	5.16'	0.00'	215.3-215.4 IN 215.2-215.4 IN 215.4-215 OUT	W N E	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	774.21 774.21 774.21	FROM STR: 215.3 FROM STR: 215.2 TO STR: 215	-- -- 11.3'	-- -- 1.00%	
216	SULLIVAN	523+78.85	20.07	RT	ADJUSTING MANHOLE COVERS CONNECT TO EXISTING STORM SEWER STRUCTURE					215-216 IN	S	SSPRC CLASS III 60-INCH	767.06	FROM STR: 215	--	--	
216.1	SULLIVAN	523+78.85	20.07	RT	CONNECT TO EXISTING STORM SEWER STRUCTURE					216.3-216.1 IN	SW	SSPRC CLASS IV 12-INCH	772.79	FROM STR: 216.3	--	--	
216.2	SULLIVAN	523+50.81	-23.00	LT	CONCRETE COLLAR					216.2-216.3 OUT	E	SSPRC CLASS IV 12-INCH	773.36	TO STR: 216.3	23.0'	1.00%	VERIFY LOCATION OF LATERAL
216.3	SULLIVAN	523+51.55	0.00		MANHOLES 4-J	779.64	773.13	6.51'	0.00'	216.2-216.3 IN 216.3-216.1 OUT	W NE	SSPRC CLASS IV 12-INCH SSPRC CLASS IV 12-INCH	773.13 773.13	FROM STR: 216.2 TO STR: 216.1	-- 34.0'	-- 1.00%	VERIFY LATERAL LOC/ELEV PRIOR TO FABRICATION
305	MILITARY-NB	450+75.79	-6.00	LT	MANHOLES 6-J	781.32	775.95	5.38'	0.00'	305.1-305 IN 305.3-305 IN 305.6-305 IN 305-306 OUT	NW W SE NE	SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS V 30-INCH	776.25 776.62 776.34 775.95	FROM STR: 305.1 FROM STR: 305.3 FROM STR: 305.6 TO STR: 306	-- -- -- 56.6'	-- -- -- 0.30%	
305.1	MILITARY-SB	450+73.69	-18.29	LT	CATCH BASINS 2X3-H-S	780.66	774.41	6.25'	2.00'	305.2-305.1 IN 305.1-305 OUT	SW SE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	776.41 776.41	FROM STR: 305.2 TO STR: 305	-- 31.6'	-- 0.50%	CONNECT TO PIPE UNDERDRAIN
305.2	MILITARY-SB	450+64.01	-19.14	LT	CATCH BASINS 2X3-H-S	780.65	774.51	6.14'	2.00'	305.2-305.1 OUT	NE	SSPRC CLASS IV 15-INCH	776.51	TO STR: 305.1	10.0'	1.00%	

STORM SEWER STRUCTURE DATA

STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	SUMP DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
305.3	MILITARY-SB	450+46.78	1.50	RT	CATCH BASINS 2X3-H	781.09	774.93	6.17'	2.00'	305.4-305.3 IN 305.3-305 OUT	SW E	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 18-INCH	777.05 776.93	FROM STR: 305.4 TO STR: 305	-- 30.5'	-- 1.00%	
305.4	MILITARY-SB	450+18.26	1.50	RT	CATCH BASINS 2X3-H	781.34	775.19	6.15'	2.00'	305.5-305.4 IN 305.4-305.3 OUT	SE NE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	777.19 777.19	FROM STR: 305.5 TO STR: 305.3	-- 28.5'	-- 0.50%	
305.5	MILITARY-NB	450+19.27	-1.50	LT	CATCH BASINS 2X3-H	781.28	775.26	6.02'	2.00'	305.5-305.4 OUT	NW	SSPRC CLASS IV 15-INCH	777.26	TO STR: 305.4	13.3'	0.50%	
305.6	MILITARY-NB	450+75.79	16.50	RT	CATCH BASINS 2X3-H-S	780.71	774.57	6.14'	2.00'	305.6-305 OUT	NW	SSPRC CLASS IV 18-INCH	776.57	TO STR: 305	22.5'	1.00%	CONNECT TO PIPE UNDERDRAIN
306	MILITARY-NB	451+32.41	-6.00	LT	MANHOLES 6-J	781.49	775.78	5.72'	0.00'	305-306 IN 306.2-306 IN 306-308 OUT	SW SE NE	SSPRC CLASS V 30-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS V 30-INCH	775.78 776.62 775.78	FROM STR: 305 FROM STR: 306.2 TO STR: 308	-- -- 287.9'	-- -- 0.30%	
306.1	MILITARY-NB	451+32.41	29.03	RT	CONNECT TO EXISTING STORM SEWER LATERAL					306.1-306.2 OUT	NW	SSPC 12-INCH	778.55	TO STR: 306.2	12.5'	3.00%	
306.2	MILITARY-NB	451+32.41	16.50	RT	CATCH BASINS 2X3-H	780.87	774.73	6.14'	2.00'	306.1-306.2 IN 306.2-306 OUT	SE NW	SSPC 12-INCH SSPRC CLASS IV 15-INCH	778.17 776.73	FROM STR: 306.1 TO STR: 306	-- 22.5'	-- 0.50%	
308	MILITARY-NB	454+20.27	-6.00	LT	MANHOLES 6-J	780.70	774.91	5.79'	0.00'	306-308 IN 308.4-308 IN 308.2-308 IN 308-309 OUT	SW SE NW NE	SSPRC CLASS V 30-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS V 30-INCH	774.91 775.62 775.36 774.91	FROM STR: 306 FROM STR: 308.4 FROM STR: 308.2 TO STR: 309	-- -- -- 37.6'	-- -- -- 0.30%	
308.1	MILITARY-SB	454+22.92	-29.67	LT	CATCH BASINS 2X3-H-S	779.90	773.80	6.10'	2.00'	308.1-308.2 OUT	SW	SSPRC CLASS IV 15-INCH	775.80	TO STR: 308.2	10.0'	1.00%	CONNECT TO PIPE UNDERDRAIN
308.2	MILITARY-SB	454+13.15	-27.50	LT	CATCH BASINS 2X3-H-S	779.86	773.70	6.16'	2.00'	308.1-308.2 IN 308.2-308 OUT	NE SE	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	775.70 775.70	FROM STR: 308.1 TO STR: 308	-- 34.3'	-- 1.00%	
308.3	MILITARY-NB	454+10.00	16.50	RT	CATCH BASINS 2X3-H-S	780.09	773.95	6.14'	2.00'	308.3-308.4 OUT	NE	SSPRC CLASS IV 15-INCH	775.95	TO STR: 308.4	10.3'	1.00%	
308.4	MILITARY-NB	454+20.27	16.50	RT	CATCH BASINS 2X3-H-S	780.08	773.85	6.23'	2.00'	308.3-308.4 IN 308.4-308 OUT	SW NW	SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH	775.85 775.85	FROM STR: 308.3 TO STR: 308	-- 22.5'	-- 1.00%	CONNECT TO PIPE UNDERDRAIN
309	MILITARY-NB	454+57.85	-6.00	LT	MANHOLES 6-J	780.77	774.80	5.97'	0.00'	308-309 IN 321-309 IN 309-310 OUT	SW SE NE	SSPRC CLASS V 30-INCH SSPRC CLASS V 24-INCH SSPRC CLASS V 30-INCH	774.80 774.80 774.80	FROM STR: 308 FROM STR: 321 TO STR: 310	-- -- 90.3'	-- -- 0.28%	
310	MILITARY-NB	455+48.10	-6.00	LT	MANHOLES 6-J	781.01	774.55	6.46'	0.00'	309-310 IN 310.2-310 IN 310-311 OUT	SW NW NE	SSPRC CLASS V 30-INCH SSPRC CLASS IV 18-INCH SSPRC CLASS V 30-INCH	774.55 775.68 774.55	FROM STR: 309 FROM STR: 310.2 TO STR: 311	-- -- 225.2'	-- -- 0.24%	
310.1	MILITARY-SB	455+50.00	-41.84	LT	CONCRETE COLLAR					310.1-310.2 OUT	SE	SSPRC CLASS IV 12-INCH	777.00	TO STR: 310.2	14.5'	2.00%	
310.2	MILITARY-SB	455+48.10	-27.50	LT	CATCH BASINS 2X3-H	780.16	774.02	6.14'	2.00'	310.1-310.2 IN 310.3-310.2 IN 310.2-310 OUT	NW SW SE	SSPRC CLASS IV 12-INCH SSPRC CLASS IV 12-INCH SSPRC CLASS IV 18-INCH	776.71 776.02 776.02	FROM STR: 310.1 FROM STR: 310.3 TO STR: 310	-- -- 33.5'	-- -- 1.00%	
310.3	MILITARY-SB	455+15.11	-27.50	LT	CATCH BASINS 2X3-H-S	780.12	774.27	5.85'	2.00'	310.3-310.2 OUT	NE	SSPRC CLASS IV 12-INCH	776.27	TO STR: 310.2	33.0'	0.75%	
311	MILITARY-NB	457+73.50	0.00		MANHOLES 6-J	780.23	774.00	6.23'	0.00'	310-311 IN 311.1-311 IN 311-312 OUT	SW NW SE	SSPRC CLASS V 30-INCH SSPRC CLASS IV 12-INCH SSPRC CLASS V 30-INCH	774.00 774.80 774.00	FROM STR: 310 FROM STR: 311.1 TO STR: 312	-- -- 14.2'	-- -- 0.35%	
311.1	MILITARY-NB	457+72.38	-7.92	LT	CONCRETE COLLAR					311.1-311 OUT	SE	SSPRC CLASS IV 12-INCH	775.00	TO STR: 311	8.0'	2.50%	
312	MILITARY-NB	457+76.07	14.01	RT	CONNECT TO EXISTING STORM SEWER STRUCTURE					311-312 IN	NW	SSPRC CLASS V 30-INCH	773.95	FROM STR: 311	--	--	
320	OAK-PARK	30+62.67	9.76	RT	CONCRETE COLLAR					320-321 OUT	NW	SSPRC CLASS V 24-INCH	774.97	TO STR: 321	25.2'	0.33%	
321	OAK-PARK	30+37.50	9.77	RT	MANHOLES 6-J	780.46	774.89	5.58'	0.00'	320-321 IN 321.2-321 IN 321.1-321 IN 321-309 OUT	SE NE SW NW	SSPRC CLASS V 24-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS IV 15-INCH SSPRC CLASS V 24-INCH	774.89 775.58 775.89 774.89	FROM STR: 320 FROM STR: 321.2 FROM STR: 321.1 TO STR: 309	-- -- -- 37.5'	-- -- -- 0.23%	
321.1	OAK-PARK	30+40.97	17.86	RT	CATCH BASINS 2X3-H-S	780.23	773.98	6.25'	2.00'	321.1-321 OUT	NE	SSPRC CLASS IV 15-INCH	775.98	TO STR: 321	8.8'	1.00%	
321.2	OAK-PARK	30+37.65	-19.77	LT	CATCH BASINS 2X3-H-S	780.13	773.88	6.25'	2.00'	321.2-321 OUT	SW	SSPRC CLASS IV 15-INCH	775.88	TO STR: 321	29.5'	1.00%	

2

MILITARY ROAD

12"WM

12"WM

TEMPORARY 2" BLOW OFF

CONNECT TO EXISTING TEE
281'EB'+06.6, -74.4

12"WM

SOLID SLEEVE 12-IN
283+69.47, -79.72

ASPHALT
C.E.

279'WB'

280'WB'

281'WB'

CTH VV
PIONEER ROAD

279'EB'

280'EB'

281'EB'

10'RAB'

10'RAB'

12'RAB'

13'RAB'

285'WB'

284'WB'

CTH VV
PIONEER ROAD

285'EB'

284'EB'

N

788
784
780
776
772
768
764
760

12"WM
12"WM
12 IN PVC WATERMAIN 183.7 LF @ 0.16%
12"WM

EX 8"SAN
EX 8"WM

15"SS

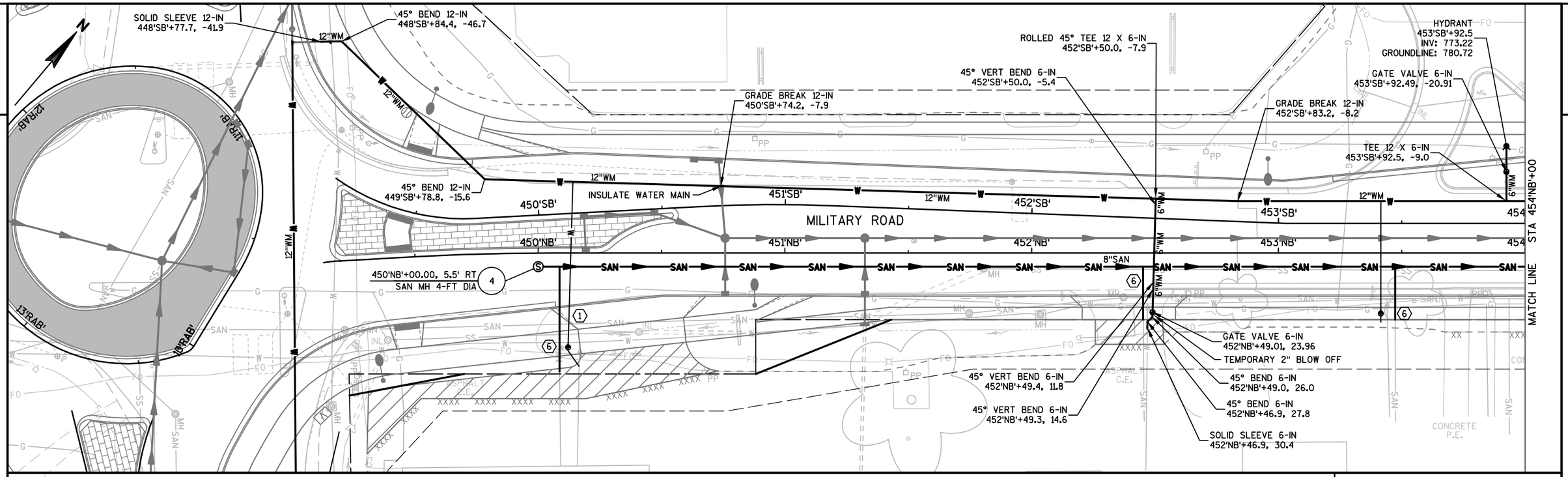
STA 281+06.60
CONNECT TO EXISTING TEE
INV: 774.82

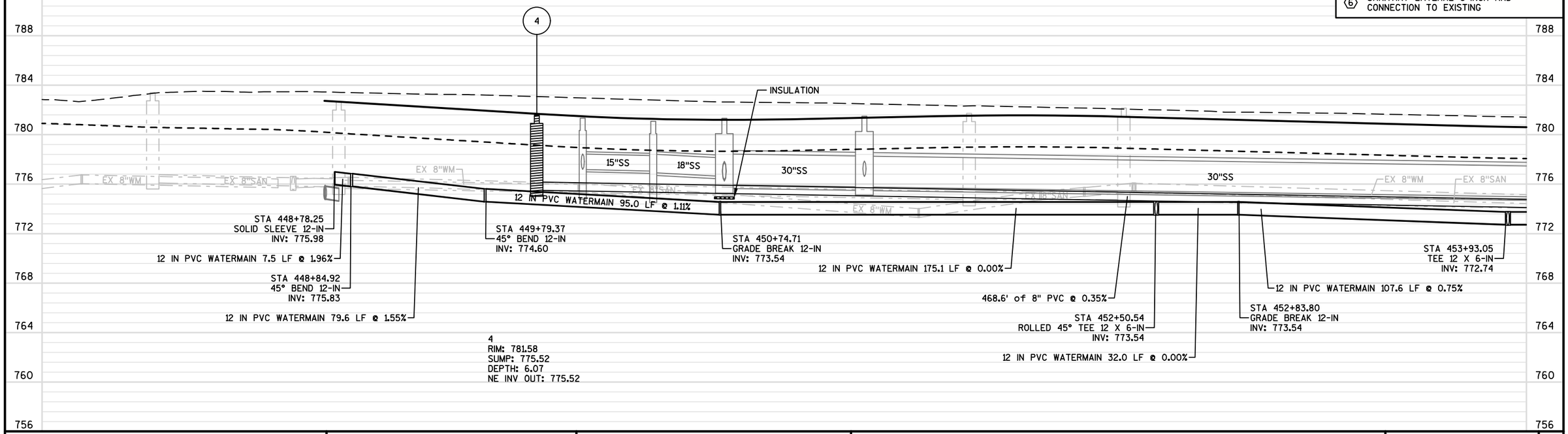
STA 283+69.47
SOLID SLEEVE 12-IN
INV: 775.12

EX 15"SAN
EX 42"SS
54"SS

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SANITARY SEWER & WATERMAIN: CTH VV	SHEET 108	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023001-UP.DWG
LAYOUT NAME - 49860022-023001-UP-01-CTH VV
PLOT DATE : 7/29/2016 9:11 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41





LEGEND

(1) WATER SERVICE 1 1/4-INCH, CURB STOP, STOP BOX AND CONNECTION TO EXISTING

(6) SANITARY LATERAL 6-INCH AND CONNECTION TO EXISTING

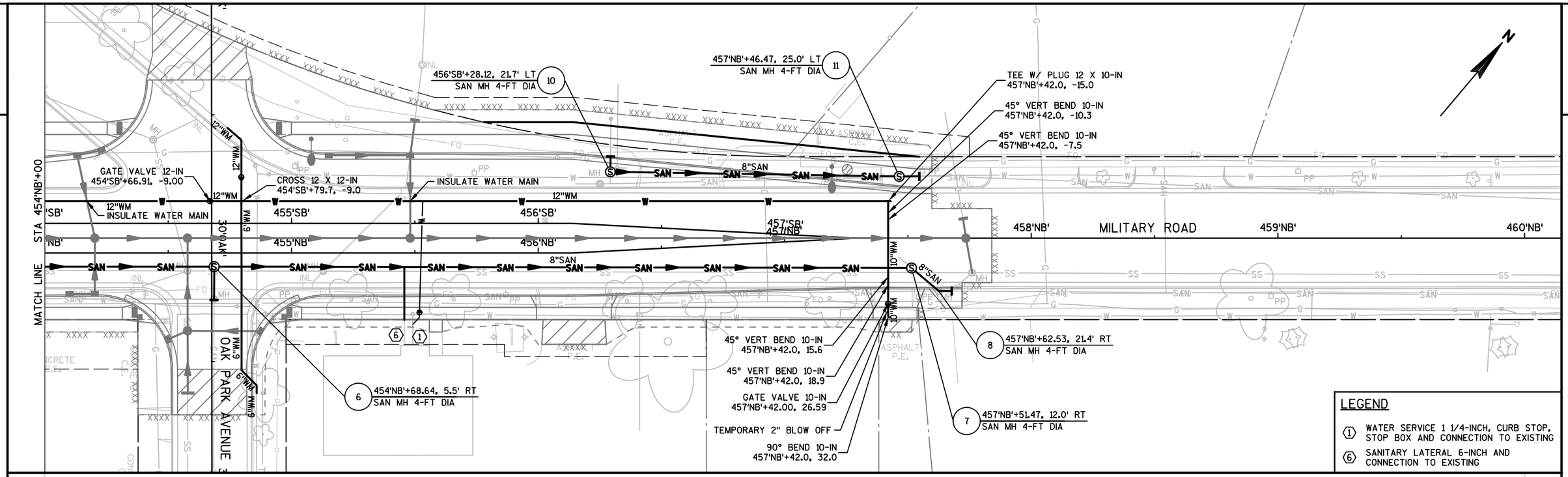
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SANITARY SEWER & WATERMAIN: MILITARY ROAD	SHEET 109 E

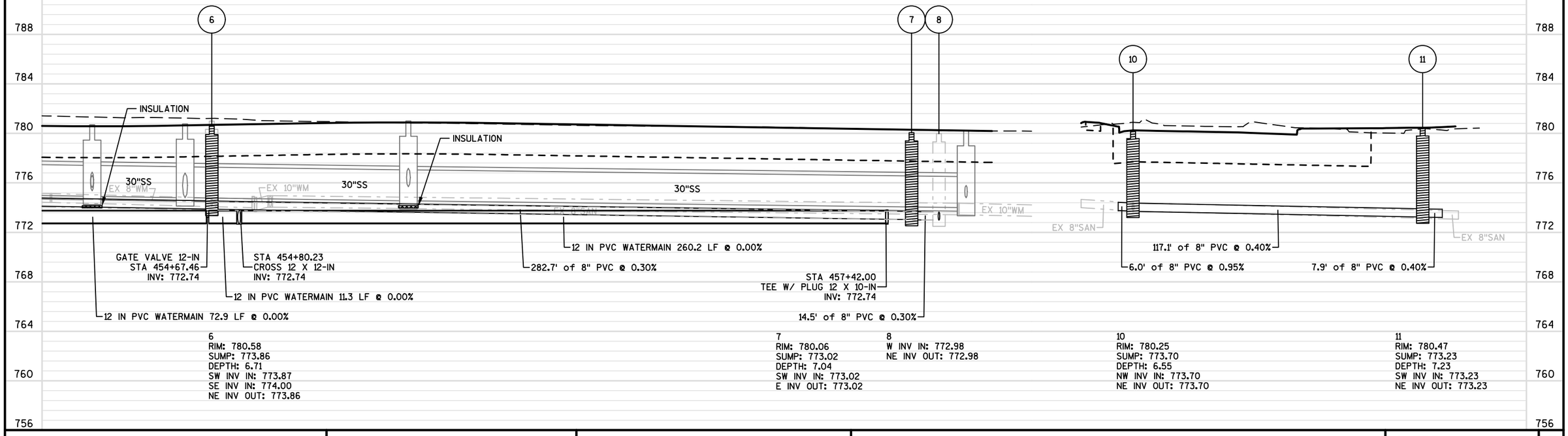
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023002-UP.DWG
LAYOUT NAME - 49860022-023002-UP-01-MILITARY

PLOT DATE : 7/29/2016 9:12 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 41

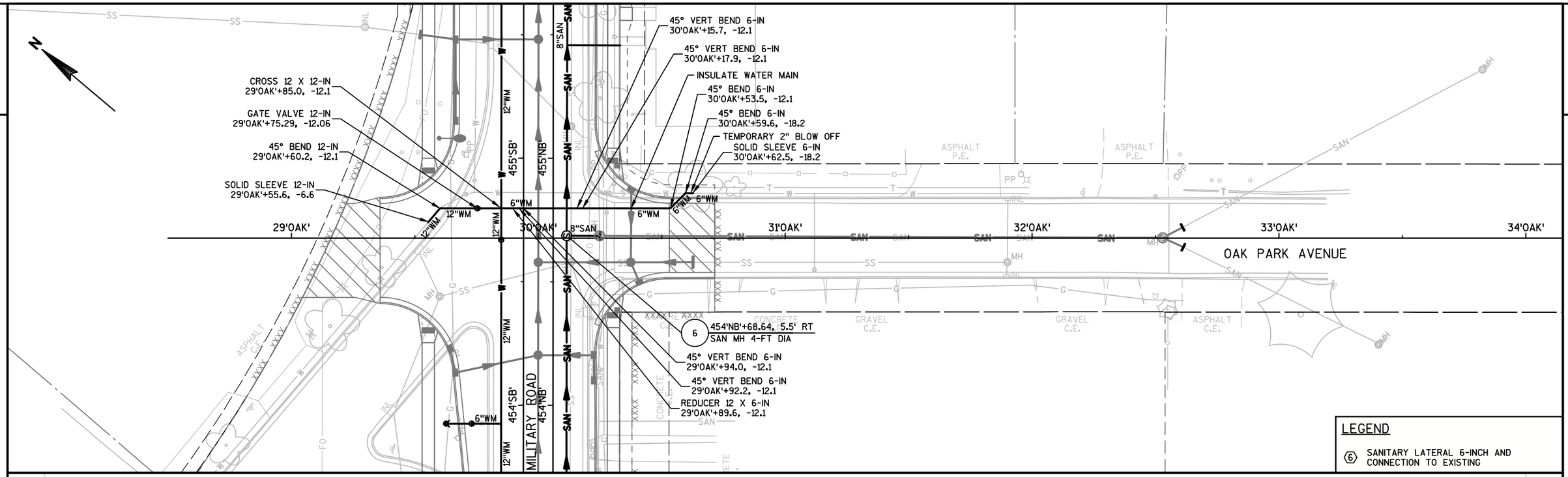
2

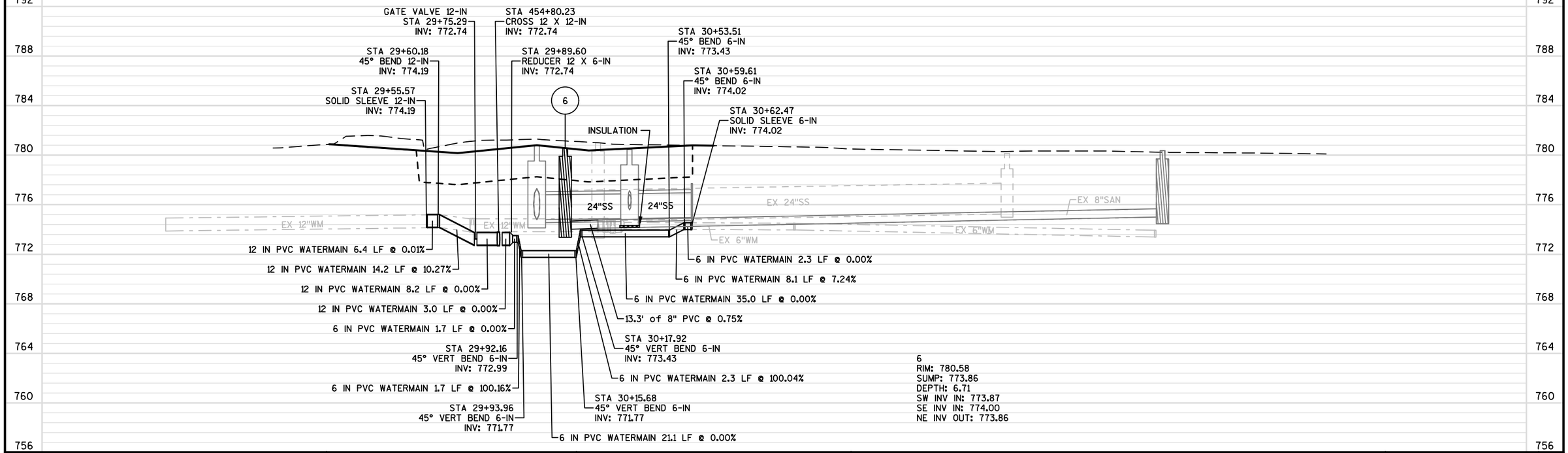




PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SANITARY SEWER & WATERMAIN: MILITARY ROAD	SHEET 110	E

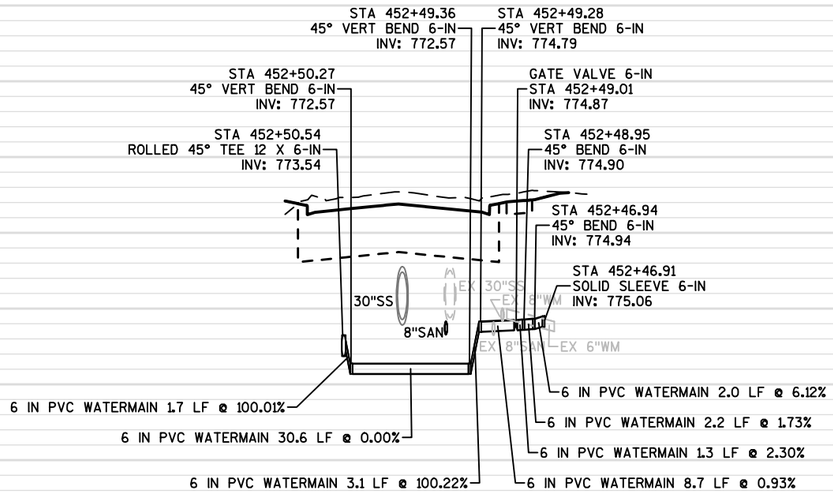
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023002-UP.DWG
LAYOUT NAME - 49860022-023002-UP-02-MILITARY
PLOT DATE : 7/29/2016 9:12 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 41

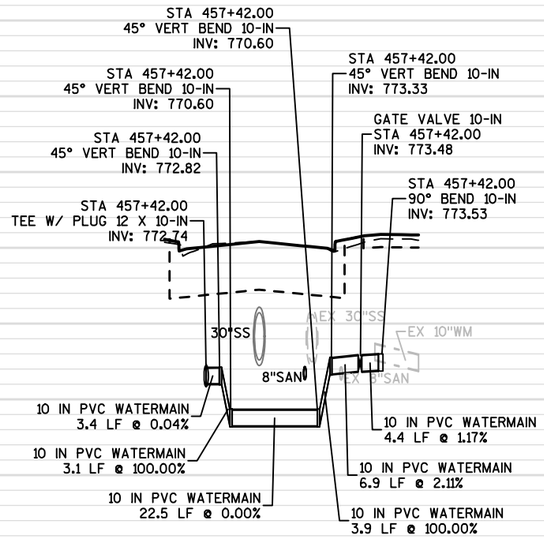




PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SANITARY SEWER & WATERMAIN: OAK PARK AVENUE	SHEET 111	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023003-UP.DWG
LAYOUT NAME - 49860022-023003-UP-01-OAK PARK
PLOT DATE : 7/29/2016 9:14 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41


STA 452+49.36
45° VERT BEND 6-IN
INV: 772.57
STA 452+49.28
45° VERT BEND 6-IN
INV: 774.79
STA 452+50.27
45° VERT BEND 6-IN
INV: 772.57
GATE VALVE 6-IN
STA 452+49.01
INV: 774.87
STA 452+50.54
ROLLED 45° TEE 12 X 6-IN
INV: 773.54
STA 452+48.95
45° BEND 6-IN
INV: 774.90
STA 452+46.94
45° BEND 6-IN
INV: 774.94
STA 452+46.91
SOLID SLEEVE 6-IN
INV: 775.06
30"SS
8"SAN
EX 30"SS
EX 8"WM
EX 8"SAN
EX 6"WM
6 IN PVC WATERMAIN 1.7 LF @ 100.01%
6 IN PVC WATERMAIN 30.6 LF @ 0.00%
6 IN PVC WATERMAIN 3.1 LF @ 100.22%
6 IN PVC WATERMAIN 2.0 LF @ 6.12%
6 IN PVC WATERMAIN 2.2 LF @ 1.73%
6 IN PVC WATERMAIN 1.3 LF @ 2.30%
6 IN PVC WATERMAIN 8.7 LF @ 0.93%


STA 457+42.00
45° VERT BEND 10-IN
INV: 770.60
STA 457+42.00
45° VERT BEND 10-IN
INV: 773.33
STA 457+42.00
45° VERT BEND 10-IN
INV: 770.60
GATE VALVE 10-IN
STA 457+42.00
INV: 773.48
STA 457+42.00
45° VERT BEND 10-IN
INV: 772.82
STA 457+42.00
90° BEND 10-IN
INV: 773.53
STA 457+42.00
TEE W/ PLUG 12 X 10-IN
INV: 772.74
30"SS
8"SAN
EX 30"SS
EX 10"WM
EX 8"SAN
10 IN PVC WATERMAIN
3.4 LF @ 0.04%
10 IN PVC WATERMAIN
3.1 LF @ 100.00%
10 IN PVC WATERMAIN
22.5 LF @ 0.00%
10 IN PVC WATERMAIN
4.4 LF @ 1.17%
10 IN PVC WATERMAIN
6.9 LF @ 2.11%
10 IN PVC WATERMAIN
3.9 LF @ 100.00%

2

CTH VV
PIONEER ROAD

273'WB'
273'EB'
274'WB'
274'EB'
275'WB'
275'EB'
276'WB'
276'EB'
277'WB'
277'EB'
278'WB'
278'EB'
279'WB'

26-83 273'EB'+53.19, 12.4' RT
RECONSTRUCT SAN MH

26-14A 276'EB'+46.11, 11.5' LT
RECONSTRUCT SAN MH

521'SU

520'SU

STA 279'EB'+00

MATCH LINE

CTH VV
PIONEER ROAD

280'WB'
281'WB'
280'EB'
281'EB'

26-117 11'RAB'+13.77, 7.2' RT
RECONSTRUCT SAN MH

26-118 12'RAB'+32.33, 18.0' RT
ADJUST SAN MH

11'RAB'
10'RAB'
12'RAB'
13'RAB'

26-16.1 283'WB'+08.70, 2.8' LT
CONNECT TO EXISTING SANITARY SEWER PIPE

26-16 283'WB'+10.20, 7.6' LT
SAN MH 4-FT DIA

26-16.2 283'WB'+15.22, 9.7' LT
CONNECT TO EXISTING SANITARY SEWER PIPE

26-15.3 13'RAB'+30.14, 8.5' LT
CONNECT TO EXISTING SANITARY SEWER PIPE

26-15.1 13'RAB'+26.28, 15.7' LT
CONNECT TO EXISTING SANITARY SEWER PIPE

26-15 13'RAB'+24.91, 10.8' LT
SAN MH 4-FT DIA

26-15.2 13'RAB'+20.21, 7.8' LT
CONNECT TO EXISTING SANITARY SEWER PIPE

284'WB'
284'EB'

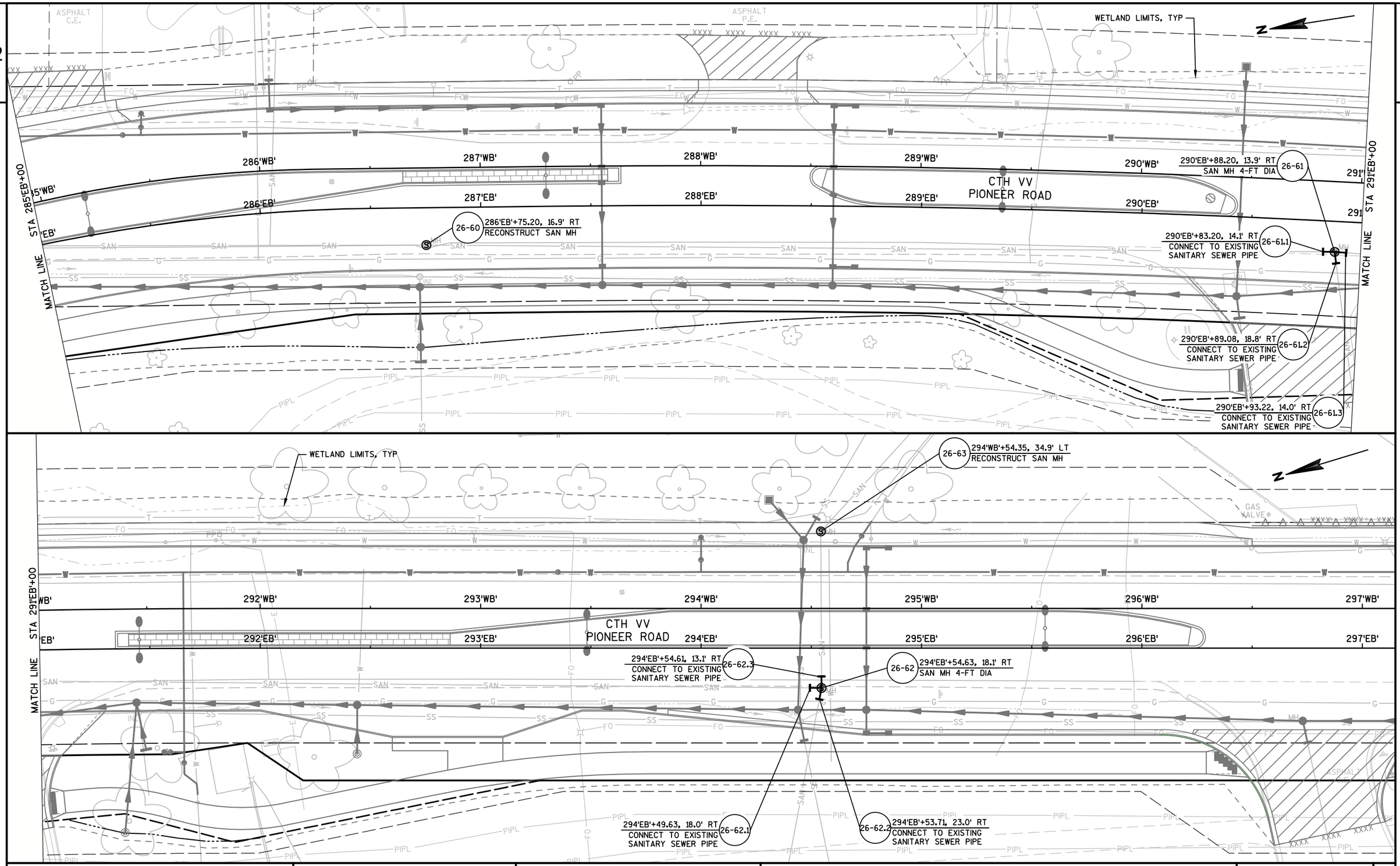
STA 285'EB'+00

MATCH LINE

CTH VV
PIONEER ROAD

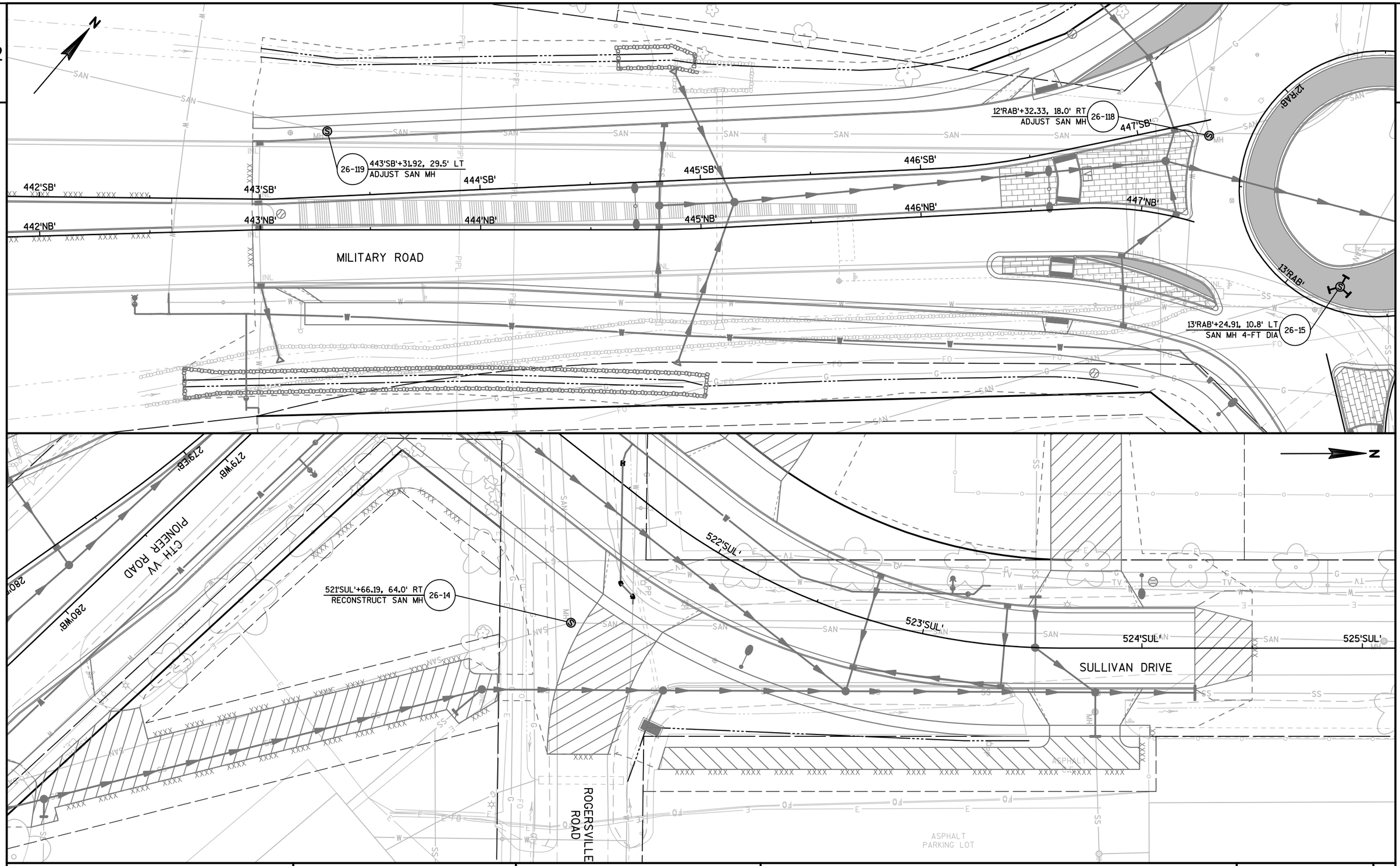
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SANITARY SEWER: CTH VV	SHEET 113	E

2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SANITARY SEWER: CTH VV	SHEET 114	E

2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SANITARY SEWER: MILITARY ROAD AND SULLIVAN DRIVE.	SHEET 115	E

2

SANITARY SEWER SCHEDULE

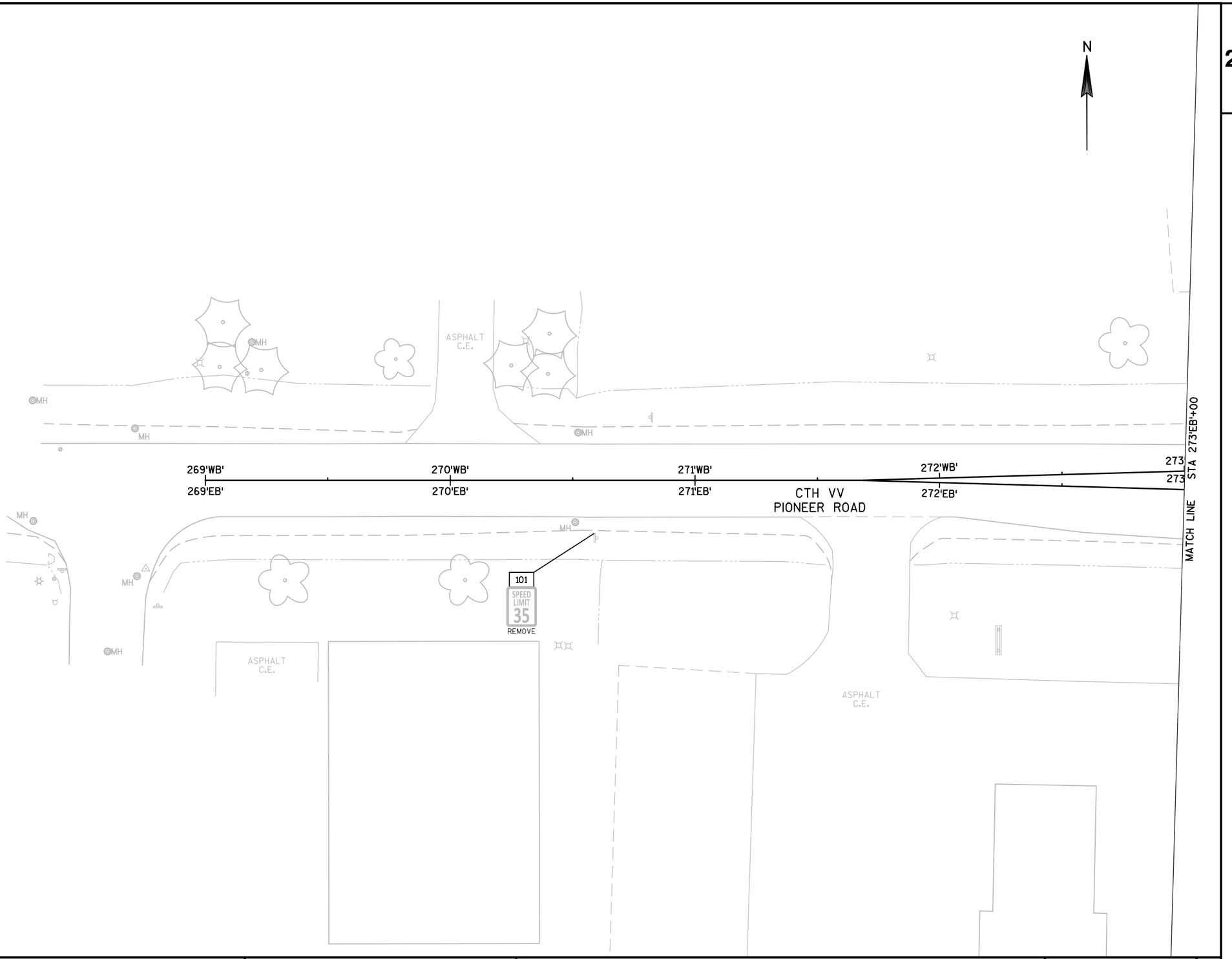
STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
26-14	SULLIVAN	521+66.19	63.96	RT	RECONSTRUCT SAN MH	781.30										REMOVE COVER, FRAME, ADJUSTING RINGS, CONE SECTION, TOP BARREL SECTION. ADD NEW CONE, ADJUSTING RINGS, FRAME AND COVER.
26-14A	VV-EB	276+46.11	-11.49	LT	RECONSTRUCT SAN MH	783.67										REMOVE COVER, FRAME, ADJUSTING RINGS, CONE SECTION, 2.8' BARREL SECTION. ADD 16" BARREL SECTION, REPLACE CONE, NEW ADJUSTING RINGS, FRAME AND COVER. VERIFY BARREL SECTION HEIGHT.
26-15	RAB-MILITARY	13+24.91	-10.81	LT	SAN MH 4-FT DIA	783.75	770.17	13.58'	26-15.2 IN 26-15.3 IN 26-15.1 OUT	SW E N	15" PVC 15" PVC 15" PVC	770.17 773.57 770.17	FROM STR: 26-15.2 FROM STR: 26-15.3 TO STR: 26-15.1	-- -- 5.00'	-- -- 0.27%	
26-15.1	RAB-MILITARY	13+26.28	-15.69	LT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-15.1 IN	S	15" PVC	770.16	FROM STR: 26-15	--	--	
26-15.2	RAB-MILITARY	13+20.21	-7.84	LT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-15.2 OUT	NE	15" PVC	770.19	TO STR: 26-15	5.00'	0.44%	
26-15.3	RAB-MILITARY	13+30.14	-8.54	LT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-15.3 OUT	W	15" PVC	773.80	TO STR: 26-15	5.00'	4.66%	
26-16	VV-WB	283+10.20	-7.61	LT	SAN MH 4-FT DIA	783.32	775.89	7.43'	26-16.2 IN 26-16.1 OUT	SE W	15" PVC 15" PVC	775.89 775.89	FROM STR: 26-16.2 TO STR: 26-16.1	-- 5.00'	-- 4.66%	
26-16.1	VV-WB	283+08.70	-2.82	LT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-16.1 IN	E	15" PVC	775.66	FROM STR: 26-16	--	--	
26-16.2	VV-WB	283+15.22	-9.71	LT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-16.2 OUT	NW	15" PVC	775.90	TO STR: 26-16	5.00'	0.17%	
26-60	VV-EB	286+75.20	16.94	RT	RECONSTRUCT SAN MH	782.70										REMOVE COVER, FRAME, ADJUSTING RINGS, CONE SECTION, 1' BARREL SECTION. ADD NEW CONE, ADJUSTING RINGS, FRAME AND COVER.
26-61	VV-EB	290+88.20	13.88	RT	SAN MH 4-FT DIA	782.93	776.90	6.03'	26-61.2 IN 26-61.3 IN 26-61.1 OUT	SW SE NW	12" PVC 10" PVC 15" PVC	776.90 776.90 776.90	FROM STR: 26-61.2 FROM STR: 26-61.3 TO STR: 26-61.1	-- -- 5.00'	-- -- 0.10%	
26-61.1	VV-EB	290+83.20	14.09	RT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-61.1 IN	SE	15" PVC	776.90	FROM STR: 26-61	--	--	
26-61.2	VV-EB	290+89.08	18.80	RT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-61.2 OUT	NE	12" PVC	776.91	TO STR: 26-61	5.00'	0.27%	
26-61.3	VV-EB	290+93.22	14.01	RT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-61.3 OUT	NW	10" PVC	776.91	TO STR: 26-61	5.00'	0.16%	
26-62	VV-EB	294+54.63	18.07	RT	SAN MH 4-FT DIA	782.89	777.48	5.41'	26-62.2 IN 26-62.3 IN 26-62.1 OUT	SW NE NW	8" PVC 8" PVC 10" PVC	777.58 777.58 777.48	FROM STR: 26-62.2 FROM STR: 26-62.3 TO STR: 26-62.1	-- -- 5.00'	-- -- 0.16%	
26-62.1	VV-EB	294+49.63	18.02	RT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-62.1 IN	SE	10" PVC	777.47	FROM STR: 26-62	--	--	
26-62.2	VV-EB	294+53.71	22.98	RT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-62.2 OUT	NE	8" PVC	777.59	TO STR: 26-62	5.00'	0.25%	
26-62.3	VV-EB	294+54.61	13.07	RT	CONNECT TO EXISTING SANITARY SEWER PIPE				26-62.3 OUT	SW	8" PVC	777.59	TO STR: 26-62	5.00'	0.25%	
26-63	VV-WB	294+54.35	-34.93	LT	RECONSTRUCT SAN MH	783.34										REMOVE COVER, FRAME, FLAT TOP. ADD 16" BARREL SECTION,REPLACE FLAT TOP, NEW ADJUSTING RINGS, FRAME AND COVER.
26-83	VV-EB	273+53.19	12.42	RT	RECONSTRUCT SAN MH	784.55										REMOVE COVER, FRAME, ADJUSTING RINGS, CONE SECTION, 2' BARREL SECTION. ADD 16" BARREL SECTION, NEW CONE, ADJUSTING RINGS, FRAME AND COVER.
26-117	SULLIVAN	519+55.32	358.05	RT	RECONSTRUCT SAN MH	782.66										REMOVE COVER, FRAME, ADJUSTING RINGS, CONE SECTION, 4' BARREL SECTION. ADD 32" BARREL SECTION, NEW CONE, ADJUSTING RINGS, FRAME AND COVER.
26-118	RAB-MILITARY	12+32.33	17.99	RT	ADJUST SAN MH	783.52										
26-119	MILITARY-SB	443+31.92	-29.54	LT	ADJUST SAN MH	788.86										

SANITARY SEWER SCHEDULE

STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
4	MILITARY-NB	450+00.00	5.50	RT	SAN MH 4-FT DIA	781.58	775.52	6.07'	4-6 OUT	NE	8" PVC	775.52	TO STR: 6	468.61'	0.35%	
6	MILITARY-NB	454+68.64	5.50	RT	SAN MH 4-FT DIA	780.58	773.86	6.71'	4-6 IN 6.1-6 IN 6-7 OUT	SW SE NE	8" PVC 8" PVC 8" PVC	773.87 774.00 773.86	FROM STR: 4 FROM STR: 6.1 TO STR: 7	-- -- 282.67'	-- -- 0.30%	
6.1	MILITARY-NB	454+68.61	18.77	RT	CONNECT TO EXISTING SANITARY SEWER PIPE				6.1-6 OUT	NW	8" PVC	774.10	TO STR: 6	13.27'	0.75%	
7	MILITARY-NB	457+51.47	12.04	RT	SAN MH 4-FT DIA	780.06	773.02	7.04'	6-7 IN 7-8 OUT	SW E	8" PVC 8" PVC	773.02 773.02	FROM STR: 6 TO STR: 8	-- 14.47'	-- 0.30%	
8	MILITARY-NB	457+62.53	21.37	RT	SAN MH 4-FT DIA	779.98	772.98	7.00'	7-8 IN 8-8.1 OUT	W NE	8" PVC 8" PVC	772.98 772.98	FROM STR: 7 TO STR: 8.1	-- 5.00'	-- 0.00%	
8.1	MILITARY-NB	457+67.53	21.41	RT	CONNECT TO EXISTING SANITARY SEWER PIPE				8-8.1 IN	SW	8" PVC	772.98	FROM STR: 8	--	--	
10	MILITARY-SB	456+28.12	-21.67	LT	SAN MH 4-FT DIA	780.25	773.70	6.55'	10.1-10 IN 10-11 OUT	NW NE	8" PVC 8" PVC	773.70 773.70	FROM STR: 10.1 TO STR: 11	-- 117.10'	-- 0.40%	
10.1	MILITARY-SB	456+27.88	-27.62	LT	CONNECT TO EXISTING SANITARY SEWER PIPE				10.1-10 OUT	SE	8" PVC	773.76	TO STR: 10	5.95'	0.95%	
11	MILITARY-NB	457+46.47	-25.00	LT	SAN MH 4-FT DIA	780.47	773.23	7.23'	10-11 IN 11-11.1 OUT	SW NE	8" PVC 8" PVC	773.23 773.23	FROM STR: 10 TO STR: 11.1	-- 7.90'	-- 0.40%	
11.1	MILITARY-NB	457+54.37	-25.03	LT	CONNECT TO EXISTING SANITARY SEWER PIPE				11-11.1 IN	SW	8" PVC	773.20	FROM STR: 11	--	--	

2

2



LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: CTH VV	SHEET 118	E

2

LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

N

201 SLOW 3 MPH — MOVE

102 SPEED LIMIT 35 — REMOVE

104 STOP — REMOVE

105 COUNTY VV — REMOVE

106 — REMOVE

103 STOP — REMOVE

107 RIGHT LANE MUST TURN RIGHT — REMOVE

CTH VV
PIONEER ROAD

60'PR'

59'PR'

274'WB'
274'EB'
275'WB'
275'EB'
276'WB'
276'EB'
277'WB'
277'EB'
278'WB'
278'EB'
279'WB'
279'EB'

STA 273'EB'+00

STA 279'EB'+00

MATCH LINE

MATCH LINE

STA 521'SUL'+00

520'SUL'

52'

SULLIVAN DRIVE

GRAVEL C.E.

GRAVEL C.E.

MH

MH

INL

INL

INL

INL

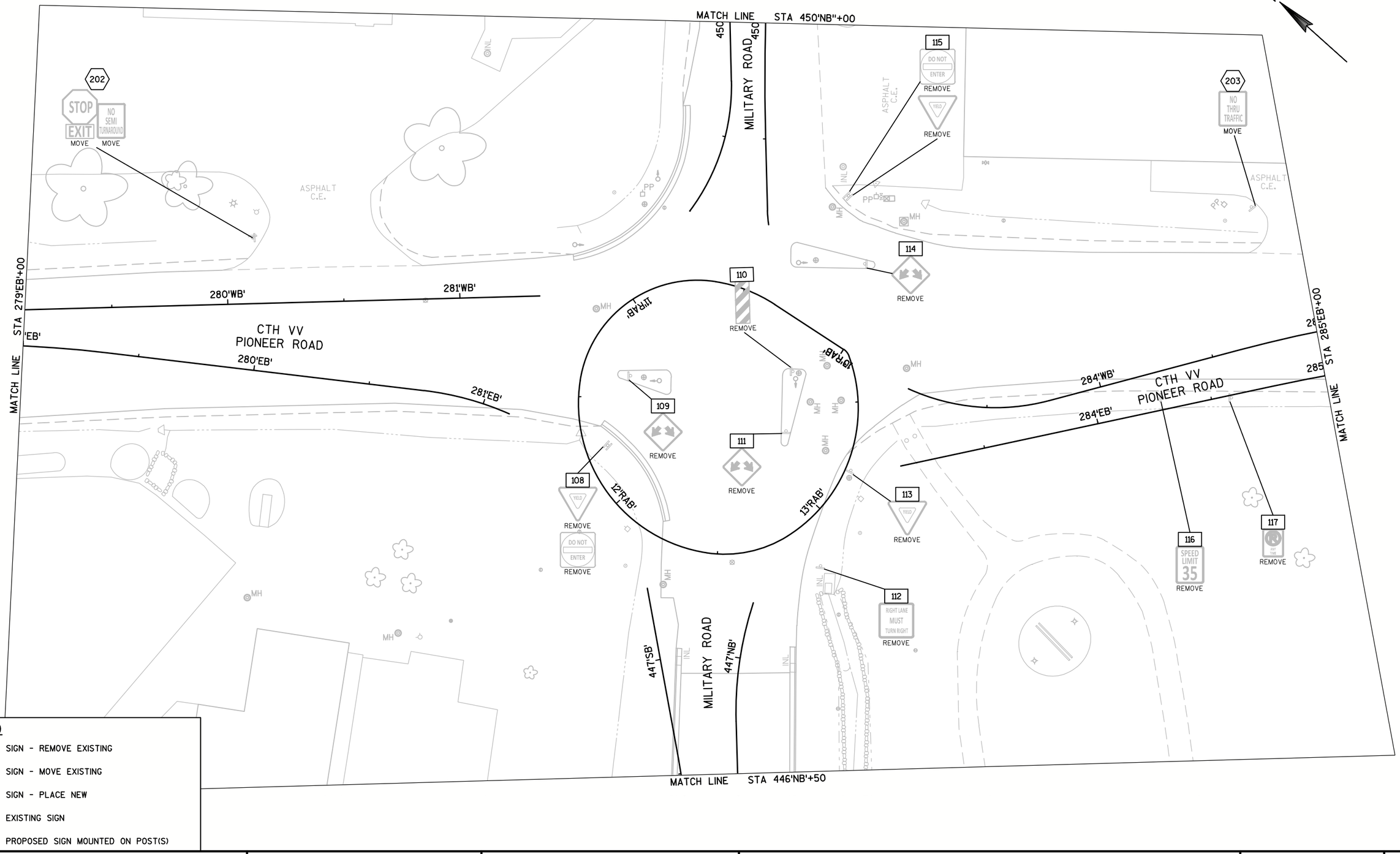
PP

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: CTH VV	SHEET 119	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023201-PS.DWG
LAYOUT NAME - 49860022-023201-PS-02-CTH VV

PLOT DATE : 7/29/2016 9:18 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

2



LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: CTH VV	SHEET 120	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023201-PS.DWG
LAYOUT NAME - 49860022-023201-PS-03-CTH VV

PLOT DATE : 7/29/2016 9:18 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

2

LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

N

204 EXIT ONLY — MOVE

119 TOURIST INFORMATION — REMOVE

PRIVATE SIGN TO REMAIN

120 — REMOVE

121 ONLY — REMOVE

122 — REMOVE

ASPHALT C.E.

ASPHALT P.E.

PP

286'WB' 287'WB' 288'WB' 289'WB' 290'WB' 291

STA 285'EB'+00

CTH VV
PIONEER ROAD

286'EB' 287'EB' 288'EB' 289'EB' 290'EB' 291

STA 291'EB'+00

MATCH LINE

MH

INL

118 PLANT ENTRANCE — REMOVE

PRIVATE SIGN TO REMAIN

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023201-PS.DWG
LAYOUT NAME - 49860022-023201-PS-04-CTH VV

PLOT DATE : 7/29/2016 9:18 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

2

LEGEND

XXX — SIGN - REMOVE EXISTING

XXX — SIGN - MOVE EXISTING

XXX — SIGN - PLACE NEW

EXISTING SIGN

PROPOSED SIGN MOUNTED ON POST(S)

STA AHEAD = 291'WB'+94.23
STA BACK = 291'WB'+95.69

291'WB' 292'WB' 293'WB' 294'WB' 295'WB' 296'WB' 297

STA 291'EB'+00

CTH VV
PIONEER ROAD

291'EB' 292'EB' 293'EB' 294'EB' 295'EB' 296'EB' 297

STA 297'EB'+00

MATCH LINE

MATCH LINE

INL

MH

PP

GAS VALVE

ASPHALT C.E.

PRIVATE SIGNS TO BE REMOVED BY OTHERS

123
REMOVE

2

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: CTH VV	SHEET 122	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023201-PS.DWG
LAYOUT NAME - 49860022-023201-PS-05-CTH VV

PLOT DATE : 7/29/2016 9:18 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

XXX — SIGN - REMOVE EXISTING

XXX — SIGN - MOVE EXISTING

XXX — SIGN - PLACE NEW

EXISTING SIGN

PROPOSED SIGN MOUNTED ON POST(S)

N

124
SPEED LIMIT 35
REMOVE

STA 297'EB'+00 — MATCH LINE

'WB' 298'WB' 299'WB' 300'WB' 301'WB' 302'WB' 303

CTH VV
PIONEER ROAD

'EB' 298'EB' 299'EB' 300'EB' 301'EB' 302'EB' 303

STA 303'EB'+00 — MATCH LINE

INL

MH

ASPHALT
C.E.

PRIVATE SIGNS TO BE REMOVED BY OTHERS

2

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023201-PS.DWG
LAYOUT NAME - 49860022-023201-PS-06-CTH VV

PLOT DATE : 7/29/2016 9:18 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

2

2

LEGEND

XXX SIGN - REMOVE EXISTING

XXX SIGN - MOVE EXISTING

XXX SIGN - PLACE NEW

EXISTING SIGN

PROPOSED SIGN MOUNTED ON POST(S)

N

MERCURY MARINE ENTRANCE

PRIVATE SIGN TO BE REMOVED BY OTHERS

PRIVATE SIGNS TO BE REMOVED BY OTHERS

PRIVATE SIGNS TO BE REMOVED BY OTHERS

PRIVATE SIGNS TO BE REMOVED BY OTHERS

ASPHALT C.E.

12" W.M.

INL

MH

#W6142

STA 303'EB+00

'WB' 304'WB' 305'WB' 306'WB' 307'WB' 308'WB' 309

CTH VV
PIONEER ROAD

'EB' 304'EB' 305'EB' 306'EB' 307'EB' 308'EB' 309

STA 309'EB+00

MATCH LINE

MATCH LINE

125
SPEED LIMIT 35
REMOVE

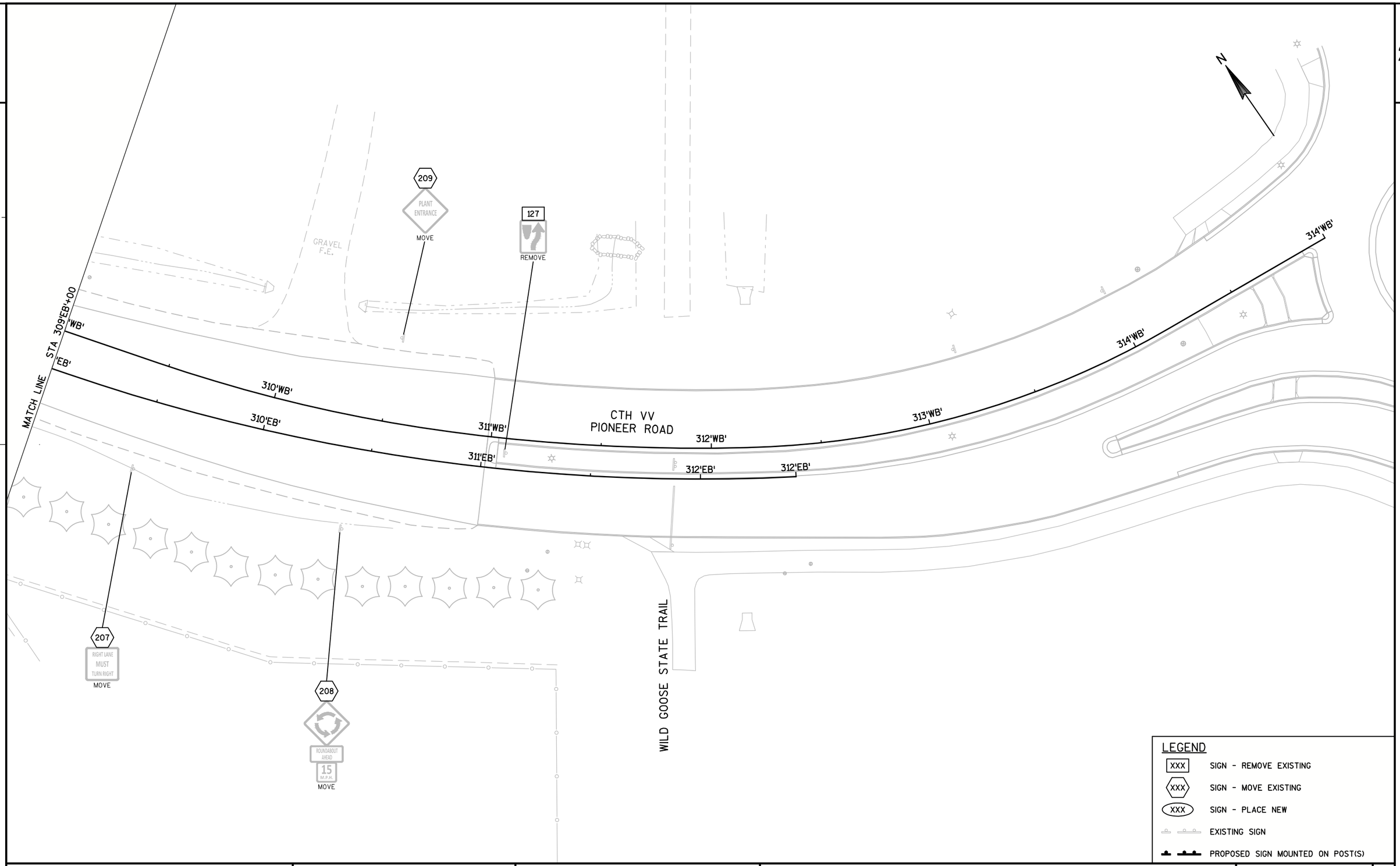
126
TO 41
USE RIGHT LANE
REMOVE

206
JCT COUNTY VV
MOVE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: CTH VV	SHEET	E

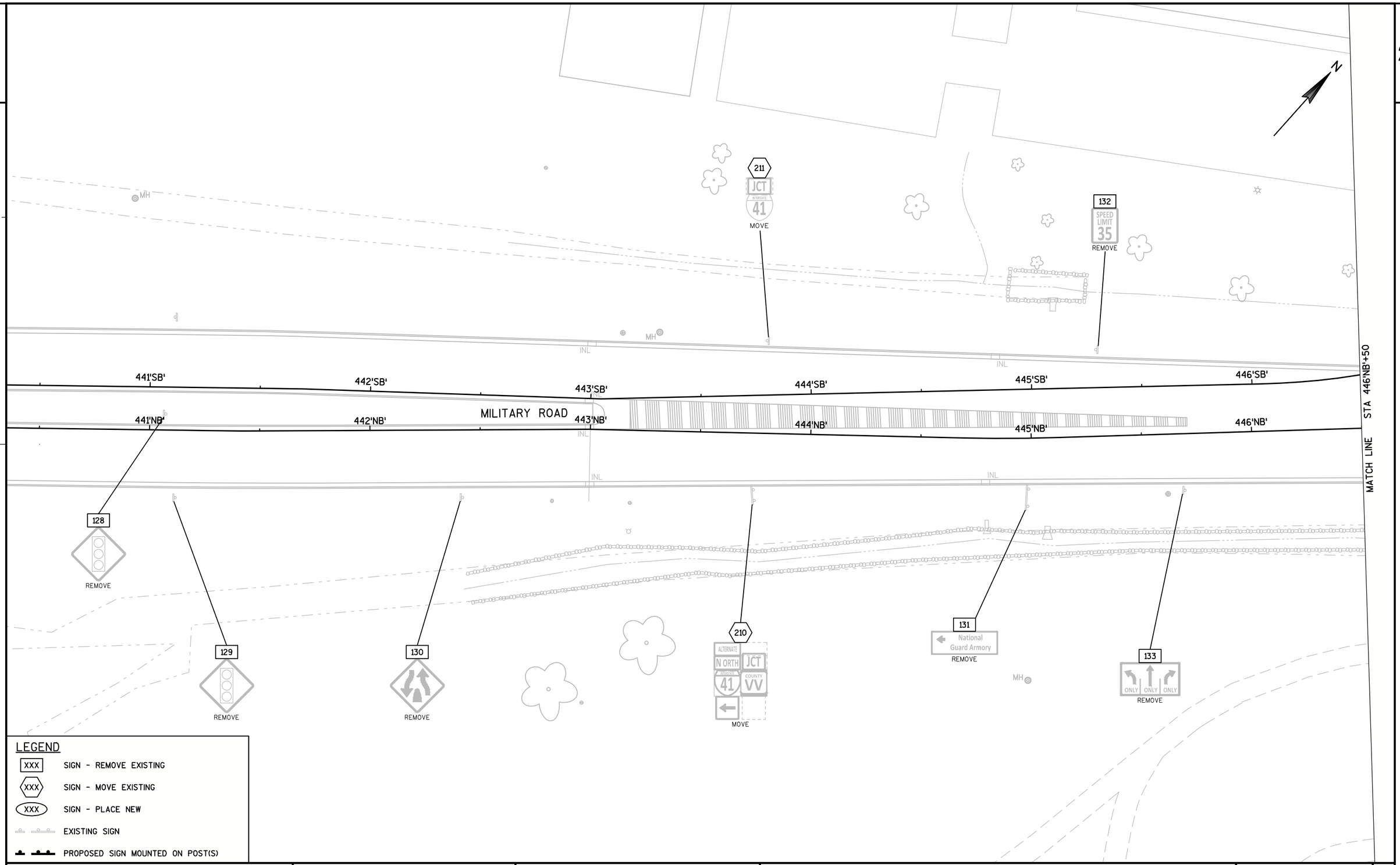
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023201-PS.DWG
LAYOUT NAME - 49860022-023201-PS-07-CTH VV
PLOT DATE : 11/2/2016 2:49 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: CTH VV	SHEET 125	E

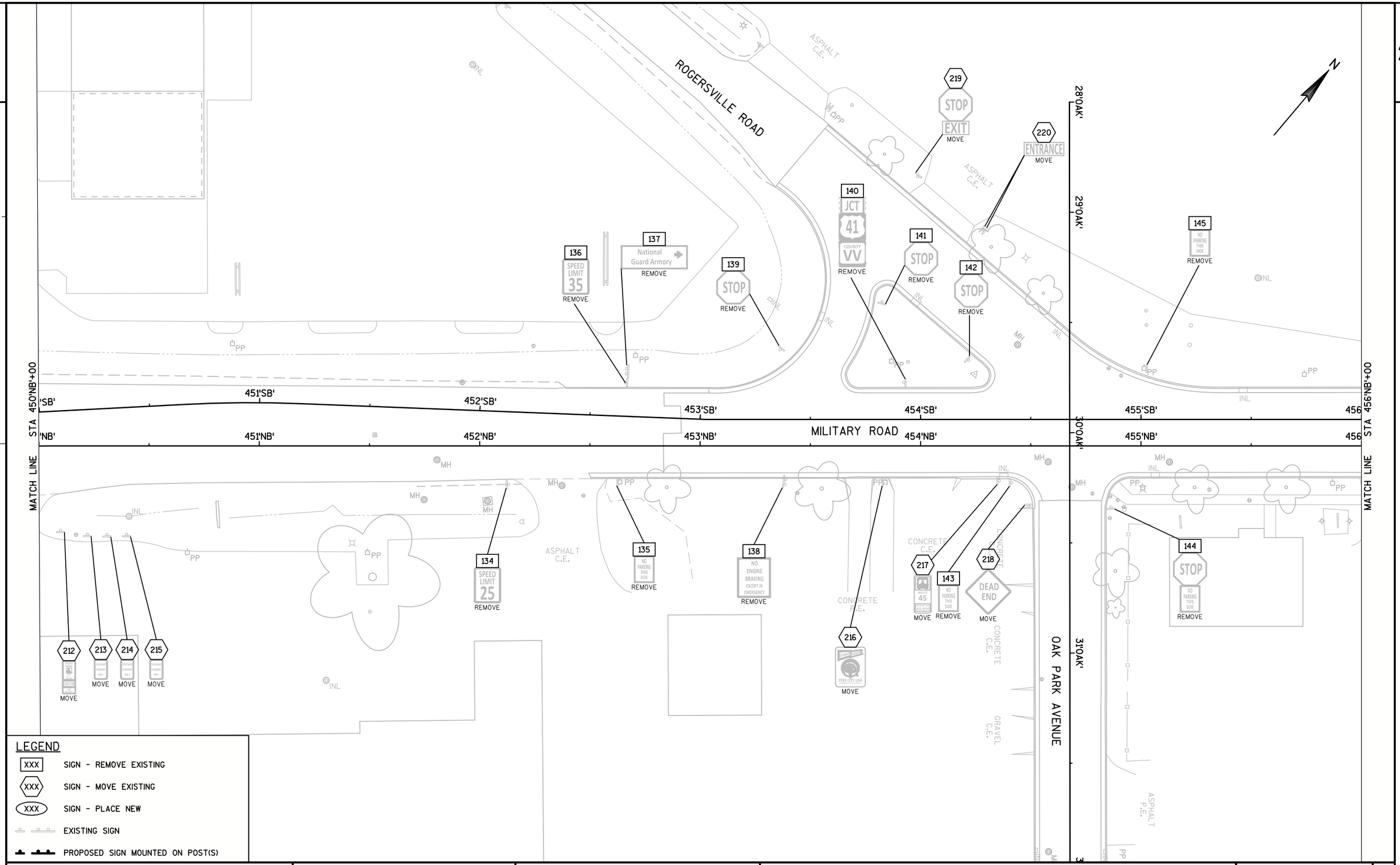
2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: MILITARY ROAD	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023202-PS.DWG
LAYOUT NAME - 49860022-023202-PS-01-MILITARY

PLOT DATE : 7/29/2016 9:19 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF



LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: MILITARY ROAD	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023202-PS.DWG
LAYOUT NAME - 49860022-023202-PS-03-MILITARY

PLOT DATE : 7/29/2016 9:19 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

2

2

N

221
STOP
EXIT
MOVE

222
ENTRANCE
MOVE

PRIVATE SIGN TO REMAIN

ASPHALT
C.E.

ASPHALT
C.E.

MH

PP

INL

PP

INL

STA 456'NB'+00

'SB'

'NB'

457'SB'

457'NB'

458'NB'

MILITARY ROAD

459'NB'

460'NB'

461'NB'

462'NB'

MATCH LINE

MH

INL

PP

MH

PP

INL

PP

MH

MH

MH

ASPHALT
P.E.

ASPHALT
P.E.

146
NO PARKING THIS SIDE
REMOVE

LEGEND

XXX — SIGN - REMOVE EXISTING

XXX — SIGN - MOVE EXISTING

XXX — SIGN - PLACE NEW

EXISTING SIGN

PROPOSED SIGN MOUNTED ON POST(S)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: MILITARY ROAD	SHEET 128	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023202-PS.DWG
LAYOUT NAME - 49860022-023202-PS-04-MILITARY

PLOT DATE : 7/29/2016 9:19 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

N

PRIVATE SIGN TO REMAIN

223
CUSTOMER CYLINDER PICK-UP
MOVE

ASPHALT C.E.

HEIGHT TO BOTTOM OF SIGN-16.45'

GATE

ASPHALT PARKING LOT

MATCH LINE STA 521'SUL'+00

521'SUL'

522'SUL'

523'SUL'

524'SUL'

525'SUL'

526'SUL'

527'SUL'

SULLIVAN DRIVE

147
STOP
REMOVE

MH

INL

DPP

ASPHALT C.E.

ASPHALT PARKING LOT

224
STOP
EXIT
MOVE

ROGERSVILLE ROAD

ASPHALT C.E.

LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN REMOVAL PLAN: SULLIVAN DRIVE	SHEET 129	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023203-PS.DWG
LAYOUT NAME - 49860022-023203-PS-02-SULLIVAN

PLOT DATE : 7/29/2016 9:19 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

N

ASPHALT
C.E.

MH

269'WB'
269'EB'

270'WB'
270'EB'

271'WB'
271'EB'

272'WB'
272'EB'

CTH VV
PIONEER ROAD

STA 273'EB'+00

MATCH LINE

301A

W2-6
30"X30"

15
M.P.H.

301B

W13-1
18"X18"

302

BEGIN
RIGHT TURN LANE
YIELD TO BIKES

R4-4
36"X30"

ASPHALT
C.E.

ASPHALT
C.E.

LEGEND

XXX SIGN - REMOVE EXISTING

XXX SIGN - MOVE EXISTING

XXX SIGN - PLACE NEW

EXISTING SIGN

PROPOSED SIGN MOUNTED ON POST(S)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: CTH VV	SHEET 130	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023251-PS.DWG
LAYOUT NAME - 49860022-023251-PS-01-CTH VV

PLOT DATE : 7/29/2016 9:20 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

N

COORDINATE WITH PROPERTY OWNER FOR NEW SIGN LOCATION

201 SLOW 3 MPH MOVE

304 SPEED LIMIT 35 R2-1 24"X30"

305 COUNTY VV J13-1 24"X45"

306 STOP R1-1 30"X30"

401 STOP R1-1 18"X18"

402 STOP R1-1 18"X18"

307 R4-7 24"X30"

303 STOP R1-1 30"X30"

308 ONLY R3-8-DD 36"X30"

309 Military Rd D1-1 60"X15"

GRAVEL C.E.

CTH VV
PIONEER ROAD

MATCH LINE STA 521'SUL'+00

MATCH LINE STA 273'EB'+00

MATCH LINE STA 279'EB'+00

SULLIVAN DRIVE

52'

320'SUL

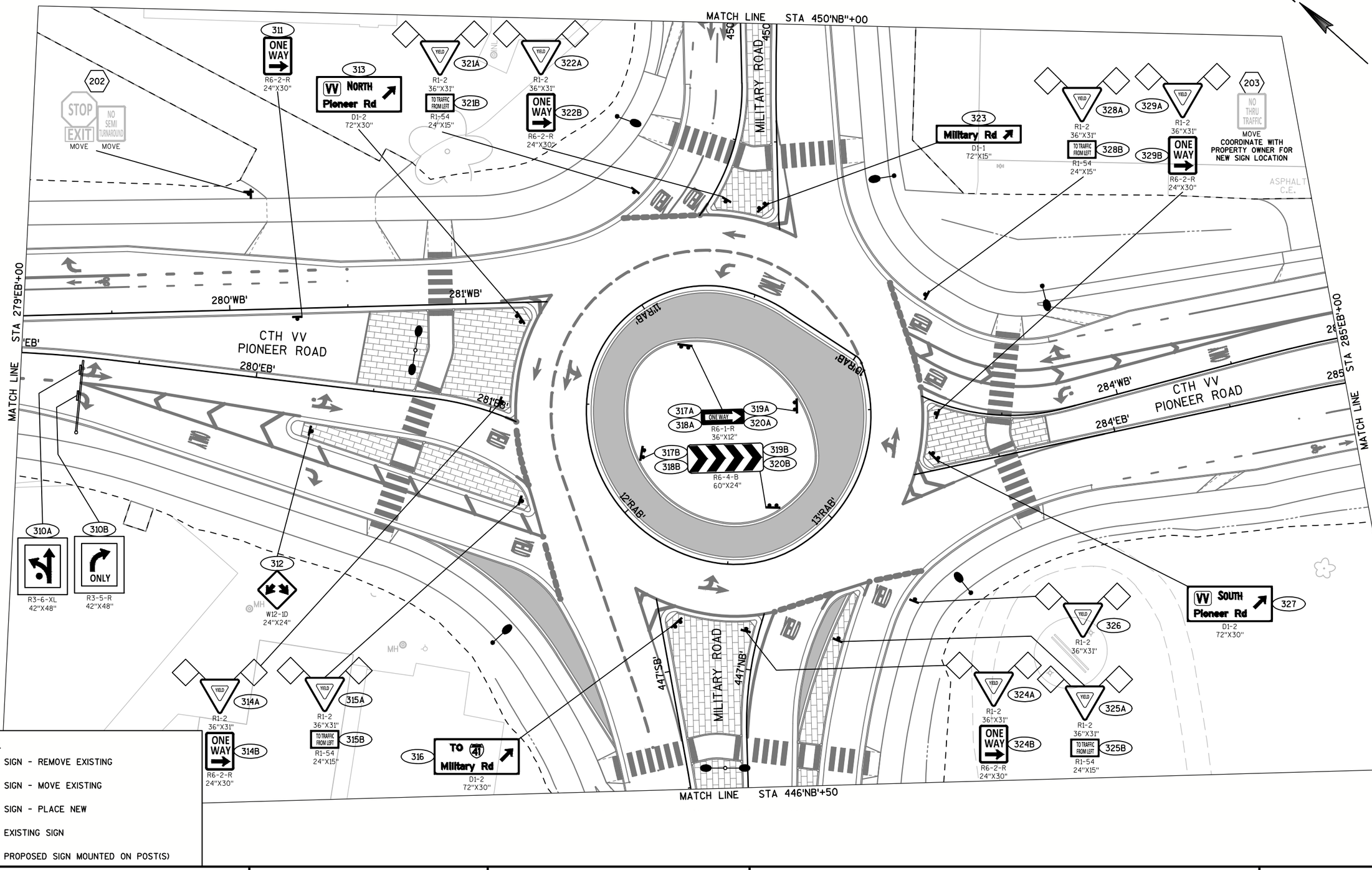
60'PR'

59'PR'

275'WB'
275'EB'
274'WB'
274'EB'
276'WB'
276'EB'
277'WB'
277'EB'
278'WB'
278'EB'
279'WB'

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: CTH VV	SHEET 131	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023251-PS.DWG
LAYOUT NAME - 49860022-023251-PS-02-CTH VV
PLOT DATE : 7/29/2016 9:20 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: CTH VV	SHEET 132 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023251-PS.DWG
LAYOUT NAME - 49860022-023251-PS-03-CTH VV

PLOT DATE : 7/29/2016 9:20 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

330 ONE WAY — R6-2-R 24"X30"

331 ONE WAY — R6-2-R 24"X30"

EXIT ONLY 204 — MOVE

333A ONLY — R3-5-XL 42"X48"

333B — R3-6-R 42"X48"

PRIVATE SIGN TO REMAIN

335 ONLY — R3-8-EE 36"X30"

337 — R4-7 24"X30"

338A — W2-6 30"X30"

338B 15 M.P.H. — W13-1 18"X18"

Military Rd 339 — D1-1 60"X15"

340 — R4-7 24"X30"

ASPHALT P.E.

286'WB' 287'WB' 288'WB' 289'WB' 290'WB' 291'

286'EB' 287'EB' 288'EB' 289'EB' 290'EB' 291'

CTH VV
PIONEER ROAD

STA 285'EB'+00

STA 291'EB'+00

MATCH LINE

MATCH LINE

332 SPEED LIMIT 35 — R2-1 24"X30"

334 TO 41 — J22-1 24"X57"

336 PLANT ENTRANCE — W54-56 30"X30"

PRIVATE SIGN TO REMAIN

403 STOP — R1-1 18"X18"

ONLY

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023251-PS.DWG
LAYOUT NAME - 49860022-023251-PS-04-CTH VV
PLOT DATE : 11/2/2016 2:51 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

LEGEND

XXX SIGN - REMOVE EXISTING

XXX SIGN - MOVE EXISTING

XXX SIGN - PLACE NEW

EXISTING SIGN

PROPOSED SIGN MOUNTED ON POST(S)

STA AHEAD = 291'WB'+94.23
STA BACK = 291'WB'+95.69

342
R4-7
24"X30"

GAS VALVE

STA 291'EB'+00
MATCH LINE

291'WB' 292'WB' 293'WB' 294'WB' 295'WB' 296'WB' 297

291'EB' 292'EB' 293'EB' 294'EB' 295'EB' 296'EB' 297

CTH VV
PIONEER ROAD

STA 297'EB'+00
MATCH LINE

404
STOP
R1-1
18"X18"

341
BEGIN RIGHT TURN LANE
YIELD TO BIKES
R4-4
36"X30"

405
STOP
R1-1
18"X18"

CULV

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: CTH VV	SHEET 134	E

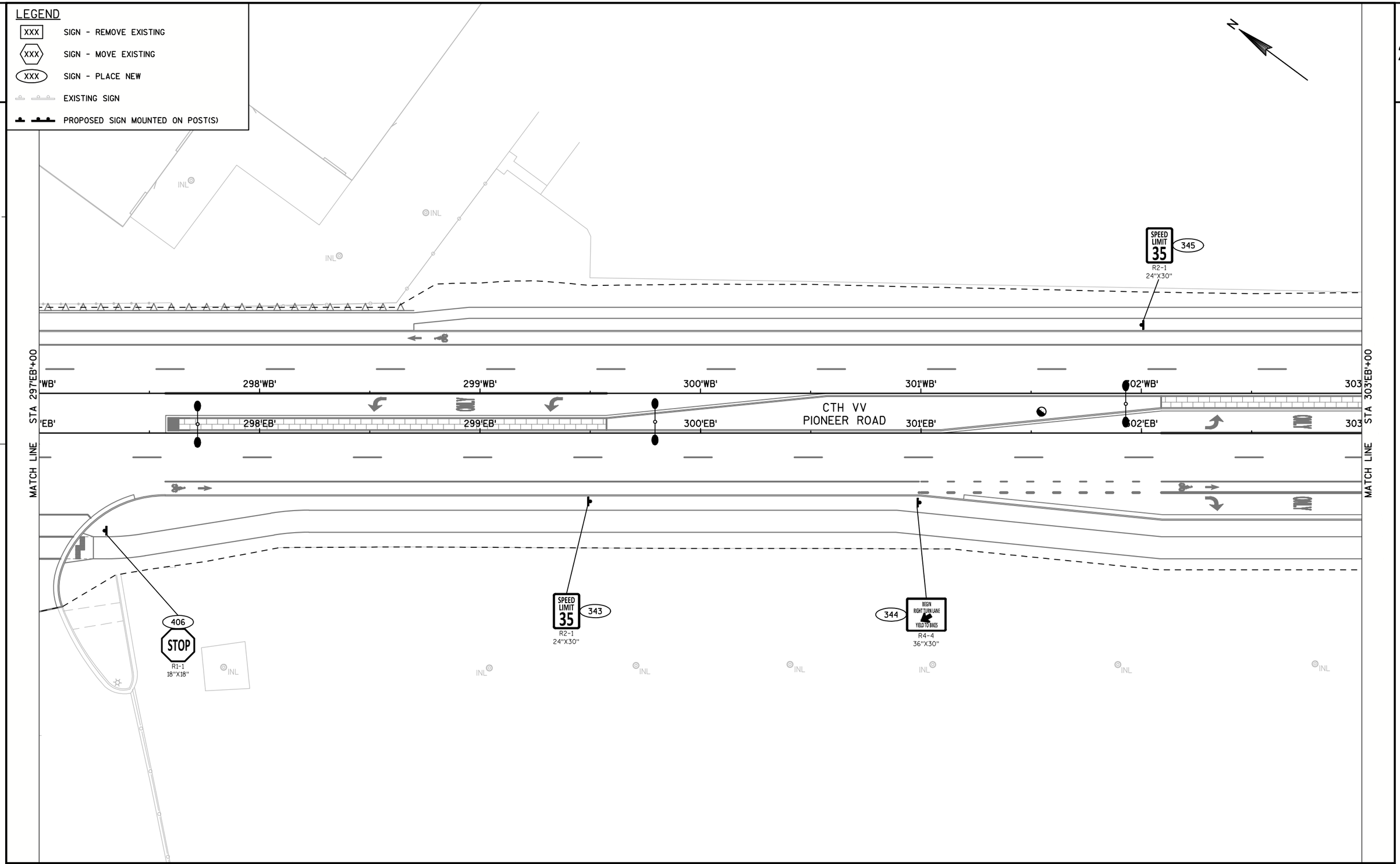
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023251-PS.DWG
LAYOUT NAME - 49860022-023251-PS-05-CTH VV

PLOT DATE : 7/29/2016 9:20 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: CTH VV	SHEET 135	E

2

LEGEND

XXX — SIGN - REMOVE EXISTING

XXX — SIGN - MOVE EXISTING

XXX — SIGN - PLACE NEW

EXISTING SIGN

PROPOSED SIGN MOUNTED ON POST(S)

N

MERCURY MARINE ENTRANCE

349 STOP R1-1F 30"X30" MOUNT TO TRAFFIC SIGNAL POST

353A LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50 30"X36"

353B R4-7 24"X30" MOUNT TO TRAFFIC SIGNAL POST

354 STOP R1-1F 30"X30" MOUNT TO TRAFFIC SIGNAL POST

355 STOP R1-1F 30"X30" MOUNT TO TRAFFIC SIGNAL POST

356 ONE WAY R6-2-R 24"X30"

12'MM'

11'MM'

55'

40'

10'MM'

35'

50'

9'MM'

8'MM'

MATCH LINE

STA 303'EB'+00

'WB' 304'WB' 305'WB' 306'WB' 307'WB' 308'WB' 309

'EB' 304'EB' 305'EB' 306'EB' 307'EB' 308'EB' 309

STA 309'EB'+00

CTH VV PIONEER ROAD

350 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50 30"X36"

346 STOP R1-1F 30"X30" MOUNT TO TRAFFIC SIGNAL POST

347 STOP R1-1F 30"X30" MOUNT TO TRAFFIC SIGNAL POST

348A LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50 30"X36"

348B R4-7 24"X30" MOUNT TO TRAFFIC SIGNAL POST

407 STOP R1-1 18"X18"

MERCURY MARINE ENTRANCE

ONLY

351 STOP R1-1F 30"X30" MOUNT TO TRAFFIC SIGNAL POST

352 STOP R1-1F 30"X30" MOUNT TO TRAFFIC SIGNAL POST

408 STOP R1-1 18"X18"

ASPHALT C.E.

#W6142

TO INTERSTATE 41 357 J22-1 24"X57"

206 JCT COUNTY VVV MOVE

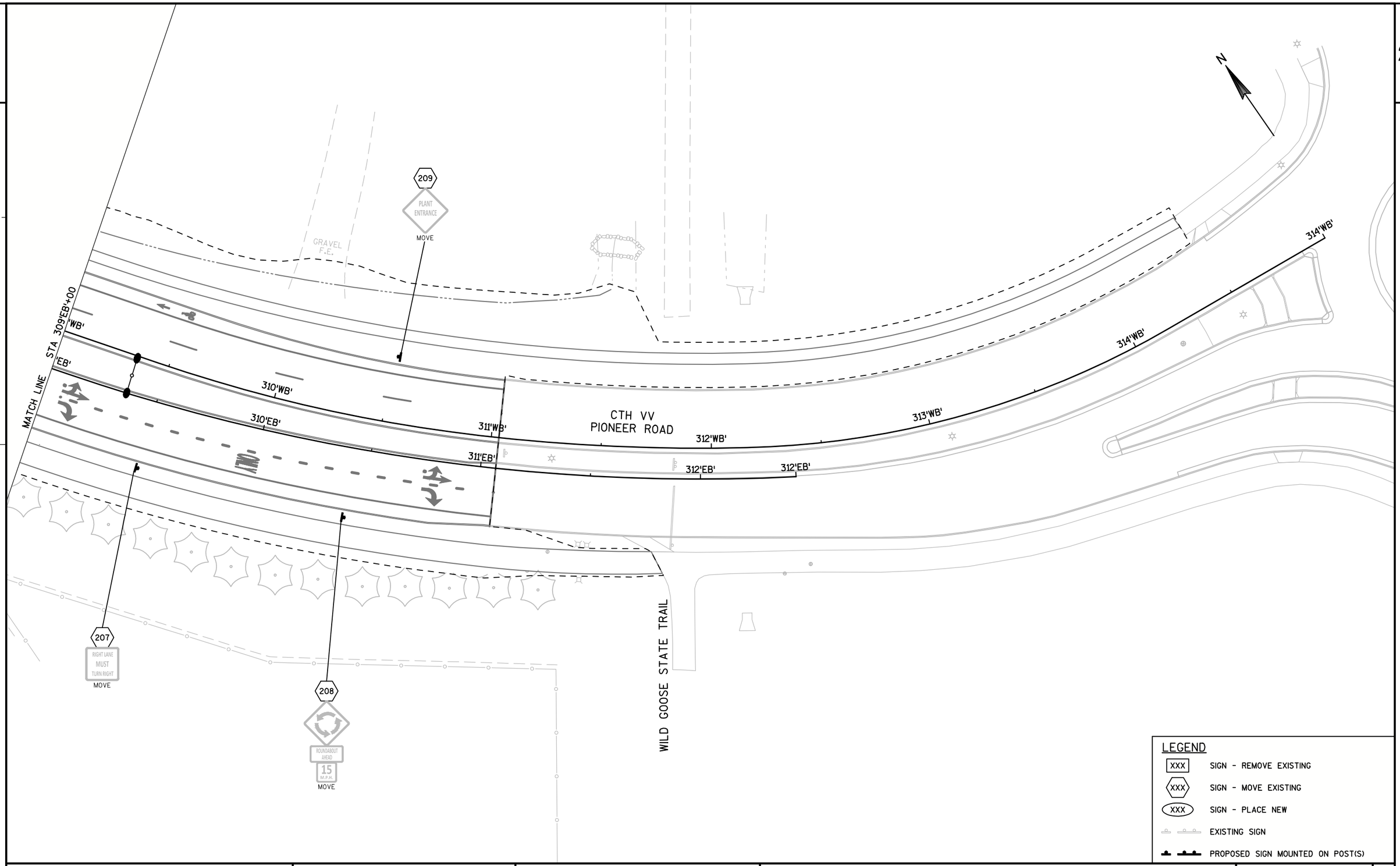
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023251-PS.DWG
LAYOUT NAME - 49860022-023251-PS-07-CTH VV

PLOT DATE : 11/2/2016 2:51 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: CTH VV	SHEET 137	E

2

2

N

211
JCT
41
INTERSTATE
MOVE

SPEED LIMIT 35
364
R2-1
24"X30"

358A
W2-6
30"X30"

15 M.P.H.
358B
W13-1
18"X18"

361
Pioneer Rd
D1-1
60"X15"

441'SB' 442'SB' 443'SB' 444'SB' 445'SB' 446'SB'

441'NB' 442'NB' 443'NB' MILITARY ROAD 444'NB' 445'NB' 446'NB'

STA 446'NB'+50
MATCH LINE

359A
W2-6
30"X30"

15 M.P.H.
359B
W13-1
18"X18"

360
ONLY
R3-8-DD
36"X30"

362
National Guard Armory
D1-55-L
96"X24"

363A
R3-6-XL
42"X48"

363B
ONLY
R3-5-R
42"X48"

210
ALTERNATE
NORTH
JCT
41
COUNTY
VV
MOVE

MH

MH

LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: MILITARY ROAD	SHEET 138	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023252-PS.DWG
LAYOUT NAME - 49860022-023252-PS-01-MILITARY

PLOT DATE : 7/29/2016 9:21 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

ROGERSVILLE ROAD

MILITARY ROAD

OAK PARK AVENUE

MATCH LINE

STA 450'NB'+00

STA 456'NB'+00

451'SB' 452'SB' 453'SB' 454'SB' 455'SB'

451'NB' 452'NB' 453'NB' 454'NB' 455'NB'

28'OAK'

29'OAK'

30'OAK'

31'OAK'

N

365A R3-6-R 42"X48"

365B R3-6-XL 42"X48"

367 R3-8-CC 36"X30'

369 National Guard Armory D1-55-R 96"X24"

370A JCT COUNTY VV J1-1 24"X39"

370B Pioneer Rd D1-1 60"X15"

371A W2-6 30"X30"

371B 15 M.P.H. W13-1 18"X18"

374 375 376 377 W5-56 18"X18"

STOP EXIT 219 MOVE

220 ENTRANCE MOVE

366 ONE WAY R6-2-R 24"X30"

368 SPEED LIMIT 25 R2-1 24"X30"

212 213 214 215 MOVE

COORDINATE WITH PROPERTY OWNER FOR NEW SIGN LOCATION

216 MOVE

NO PARKING ON THIS SIDE 372 R7-53-D 18"X24"

NO ENGINE BRAKING EXCEPT IN EMERGENCY 373 R10-64 30"X36"

217 MOVE

DEAD END 218 MOVE

STOP 378 R1-1 30"X30"

NO PARKING ON THIS SIDE 379 R7-53-D 18"X24"

ASPHALT C.E.

CONCRETE C.E.

CONCRETE P.E.

GRAVEL C.E.

ASPHALT P.E.

PP

INL

LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

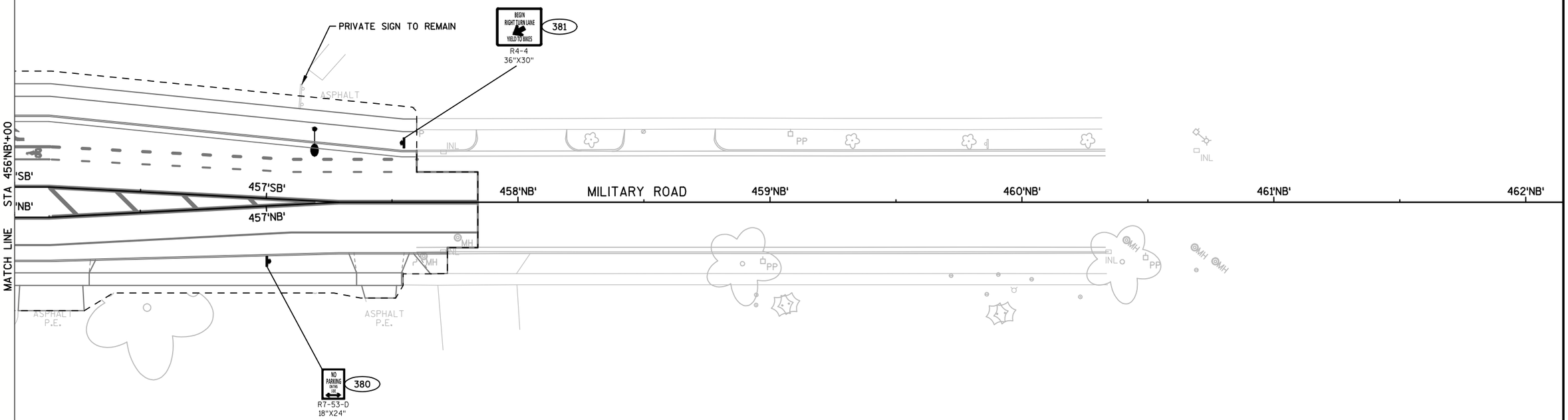
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: MILITARY ROAD	SHEET 139 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023252-PS.DWG
LAYOUT NAME - 49860022-023252-PS-03-MILITARY

PLOT DATE : 8/1/2016 10:54 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2



LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: MILITARY ROAD	SHEET 140	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023252-PS.DWG
LAYOUT NAME - 49860022-023252-PS-04-MILITARY
PLOT DATE : 8/1/2016 10:54 AM
PLOT BY : AARON SARAUER
PLOT NAME :
PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

N

PRIVATE SIGN TO REMAIN

223
CUSTOMER CYLINDER PICK-UP
MOVE

COORDINATE WITH PROPERTY OWNER FOR NEW SIGN LOCATION

HEIGHT TO BOTTOM OF SIGN-16.45'

GATE

ASPHALT PARKING LOT

MATCH LINE STA 521SUL+00

382
ONLY ONLY
R3-8-F
36"X30"

522'SUL'

523'SUL'

524'SUL'

525'SUL'

526'SUL'

527'SUL'

SULLIVAN DRIVE

222
ENTRANCE
MOVE

MH

INL

STOP 221
EXIT
MOVE

STOP 224
EXIT
MOVE

ASPHALT PARKING LOT

ASPHALT C.E.

ASPHALT C.E.

ROGERSVILLE ROAD

LEGEND

- XXX — SIGN - REMOVE EXISTING
- XXX — SIGN - MOVE EXISTING
- XXX — SIGN - PLACE NEW
- EXISTING SIGN
- PROPOSED SIGN MOUNTED ON POST(S)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PERMANENT SIGNING PLAN: SULLIVAN DRIVE	SHEET 141	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-023253-PS.DWG
LAYOUT NAME - 49860022-023253-PS-02-SULLIVAN

PLOT DATE : 8/1/2016 10:55 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1:40_XREF

2

STREET LIGHTING AND TRAFFIC SIGNAL PLANS PREPARED BY:

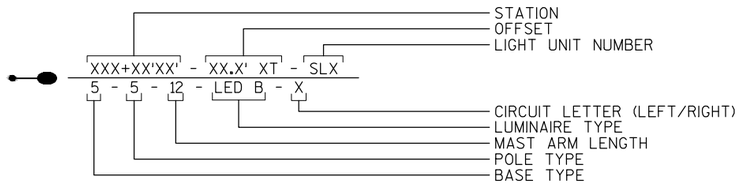
WISCONSIN
MIKE D. SCARMON
E-37613
EVANSVILLE, WI
PROFESSIONAL ENGINEER

7/28/16
(DATE)

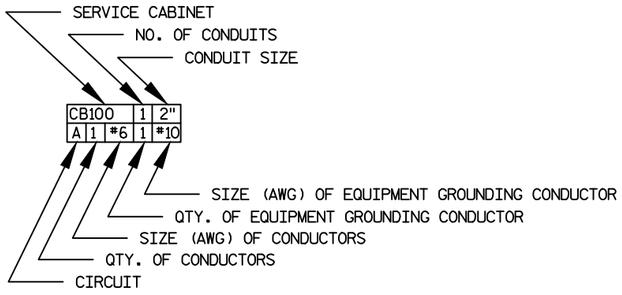
(SIGNATURE)

LIGHTING PLAN LEGEND:

- SINGLE ARM LIGHTING UNIT
- DOUBLE ARM LIGHTING UNIT
- EXISTING LIGHTING UNIT
- CONCRETE CONTROL CABINET BASE/ELECTRICAL SERVICE
- PULL BOX NON-CONDUCTIVE (24"X42")
- LIGHTING CONDUIT (2" SCHEDULE 40 PVC UNLESS NOTED)
- INTERCONNECT CONDUIT (2" SCHEDULE 40 PVC UNLESS NOTED)
- V — COMMUNICATION VAULT TYPE 1
- EXSL01 — EXISTING STREET LIGHT TO BE REMOVED BY CITY
- X — EXISTING STREET LIGHT TO BE REMOVED BY OTHERS



CONDUIT/CONDUCTOR LEGEND



PWO = PULL WIRE ONLY

N = NEUTRAL

CONDUCTOR COLOR LEGEND

A - BLACK
B - RED
C - BLACK
D - RED
E - BLACK
F - RED
120V PHASE TO GROUND

GENERAL STREET LIGHTING AND INTERCONNECT NOTES:

1) THE ENGINEER SHALL APPROVE THE FINAL LOCATION FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION.

2) THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

3) NO SPLICES ALLOWED IN PULL BOXES.

4) PHOTOCONTROL ON LIGHTING CABINET.

2

N

520+61 'SUL' - 32.8' LT - SL101
5 - 5 - 12 - LED B - A

MATCH LINE STA 521+37 'SUL'

SULLIVAN DR

521'SUL'

520'SUL'

278+35 'WB' - 53.9' LT - PB102

R/W (TYP)

CTH VV/W PIONEER RD

276'WB'
276'EB'
275'WB'
275'EB'
274'WB'
274'EB'
277'WB'
277'EB'
278'WB'
278'EB'
279'WB'
279'EB'

CV1

ICPB1

MATCH LINE STA 279+22 'WB'

276+00 'EB' - 35.2' RT - SL100
5 - 5 - 12 - LED B - A

277+49 'EB' - 34.0' RT - PB100

278+20 'EB' - 26.4' RT - PB101

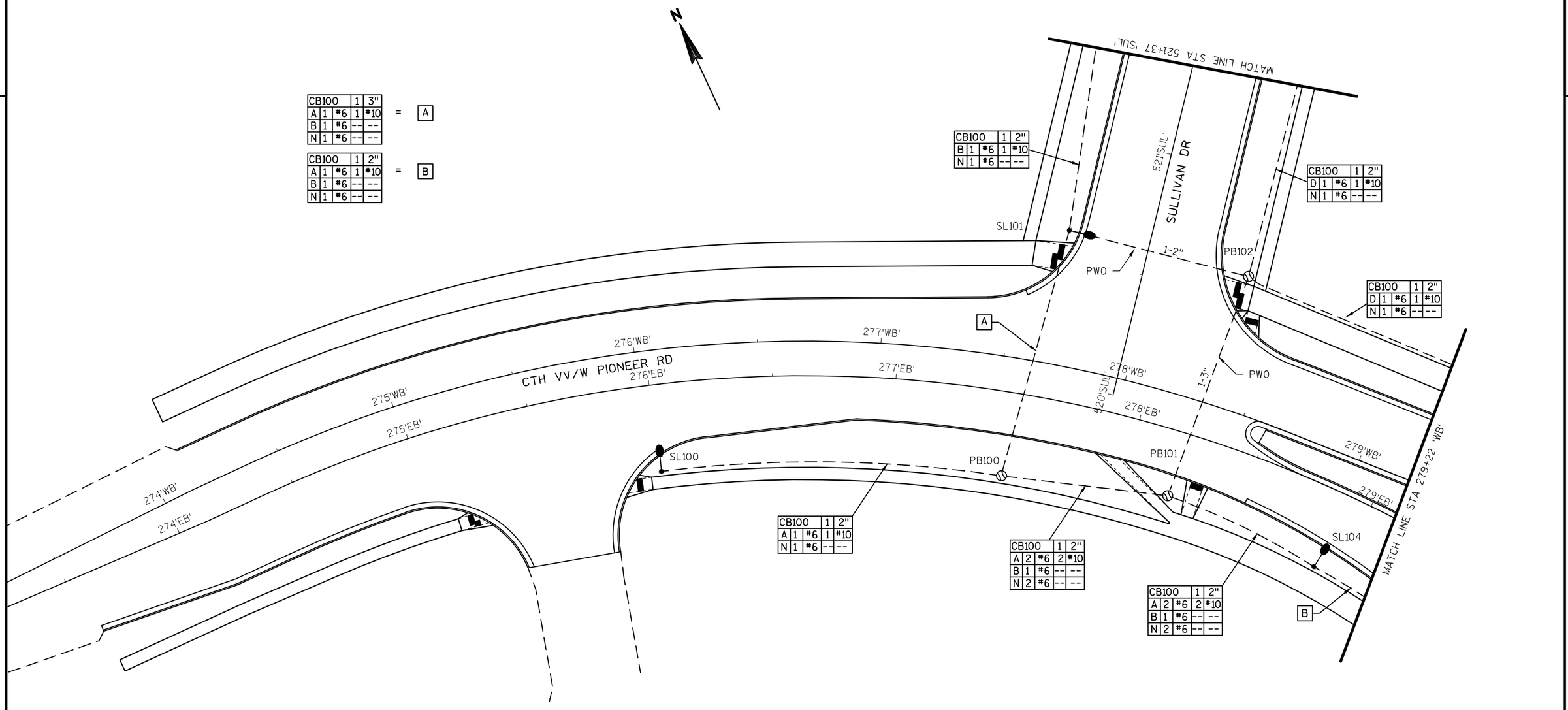
278+89 'EB' - 32.0' RT - SL104
5 - 5 - 12 - LED B - B

HEIGHT BOTTOM SIGN=16.4

GRAVEL
C.E.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 143	E

2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING PLANS	SHEET 144	E

2

449+44 'SB' - 51.0' LT - SL112
5 - 5 - 12 - LED B - D

4+25 - 49.5' LT - PB105

281+17 'WB' - 49.3' LT - PB103

280+97 'EB' - 22.6' LT - PB104

MATCH LINE STA 450+25 'SB'

450'SB'

450'NB'

S MILITARY RD

449+34 'NB' - 49.3' RT - SL111
5 - 5 - 12 - LED B - C

2+48 - 34.6' RT - PB110

2+36 - 39.8' RT - CB100

283+53 - 55.4' LT - PB109

283+81 'WB' - 52.3' LT - SL110
5 - 5 - 12 - LED B - A

ICPB12

CV4

ASPHALT C.E.

MATCH LINE STA 279+22 'WB'

280'WB'

CTH VV/W PIONEER RD

281'WB'

280'EB'

281'EB'

CTH VV/W PIONEER RD

285'WB'

284'WB'

285'EB'

284'EB'

CV3

MATCH LINE STA 285+40 'WB'

280+66 'EB' - 19.4' LT - SL105
5 - 5 - (2)6 - (2)LED B - C/D

283+87 'EB' - 05.1' LT - PB111

R/W (TYP)

285+23 'EB' - 09.8' LT - SL117
5 - 5 - (2)6 - (2)LED B - F/E

283+26 'EB' - 53.9' RT - SL109
5 - 5 - 12 - LED B - B

446+81 'NB' - 72.2' RT - PB108

447+25 'SB' - 71.6' LT - SL106
5 - 5 - 12 - LED B - A

447'SB'

447'NB'

S MILITARY RD

CV2

ICPB2

ICPB3

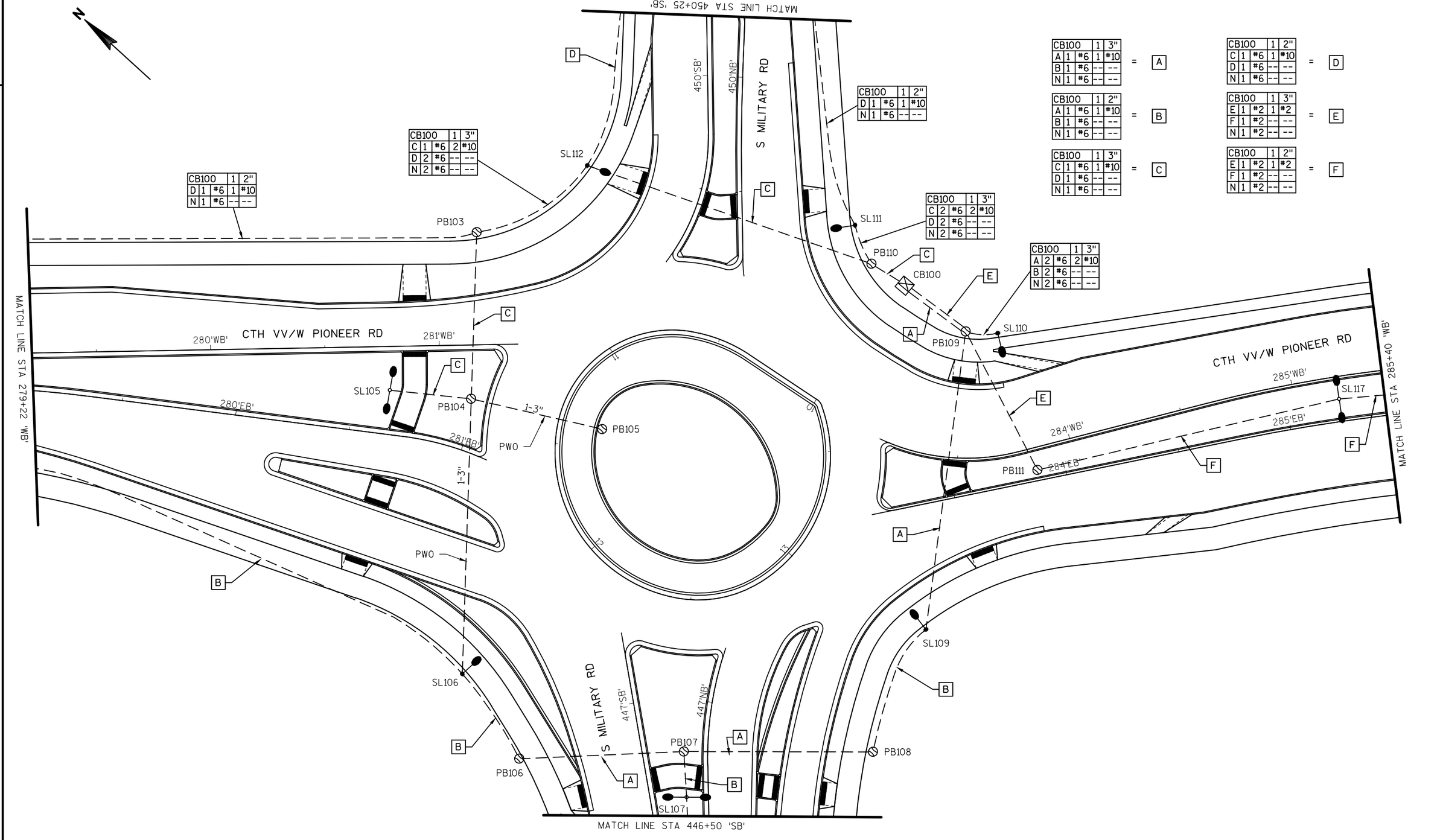
446+77 'NB' - 10.3' LT - PB107

446+85 'SB' - 53.4' LT - PB106

446+59 'NB' - 09.5' LT - SL107
5 - 5 - (2)6 - (2)LED B - B/A

MATCH LINE STA 446+50 'SB'

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 145	E



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING PLANS	SHEET 146	E

2

287+30 'EB' - 14.0' LT - SL118
5 - 5 - (2)6 - (2)LED B - E/F

289+37 'EB' - 09.0' LT - SL119
5 - 5 - (2)6 - (2)LED B - F/E

ASPHALT P.E.

XXXX XXXX XXXX XXXX

MATCH LINE STA 285+40 'WB'

MATCH LINE STA 291+10 'WB'

286'WB' 287'WB' 288'WB' 289'WB' 290'WB' 291'WB'

286'EB' 287'EB' 288'EB' 289'EB' 290'EB' 291'EB'

ICPB4

CTH VV/W PIONEER RD

R/W (TYP)

ASPHALT C.E.

X

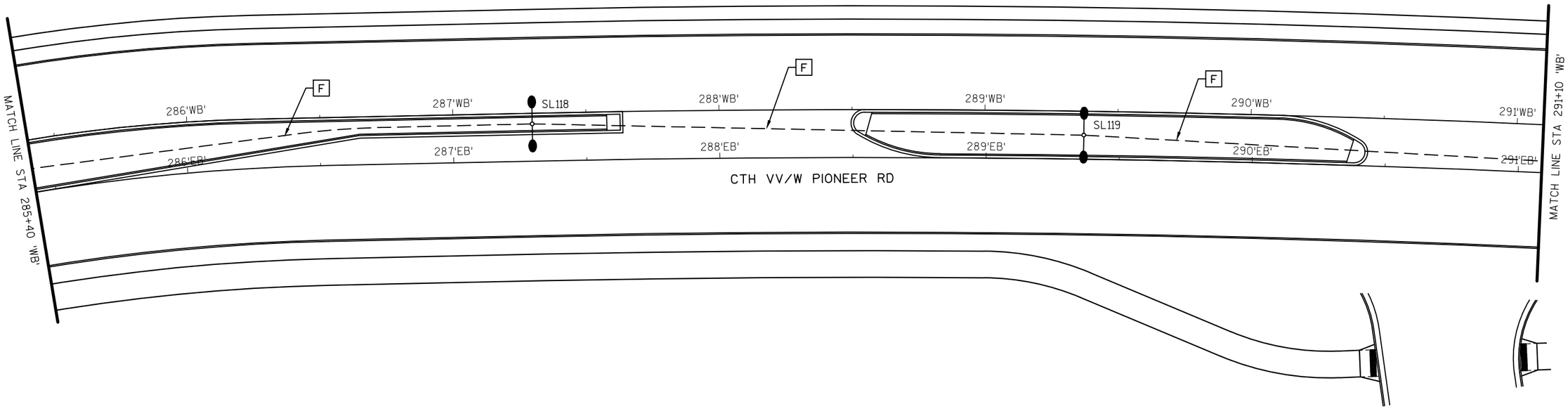
XXXX XXXX XXXX

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 147	E

2

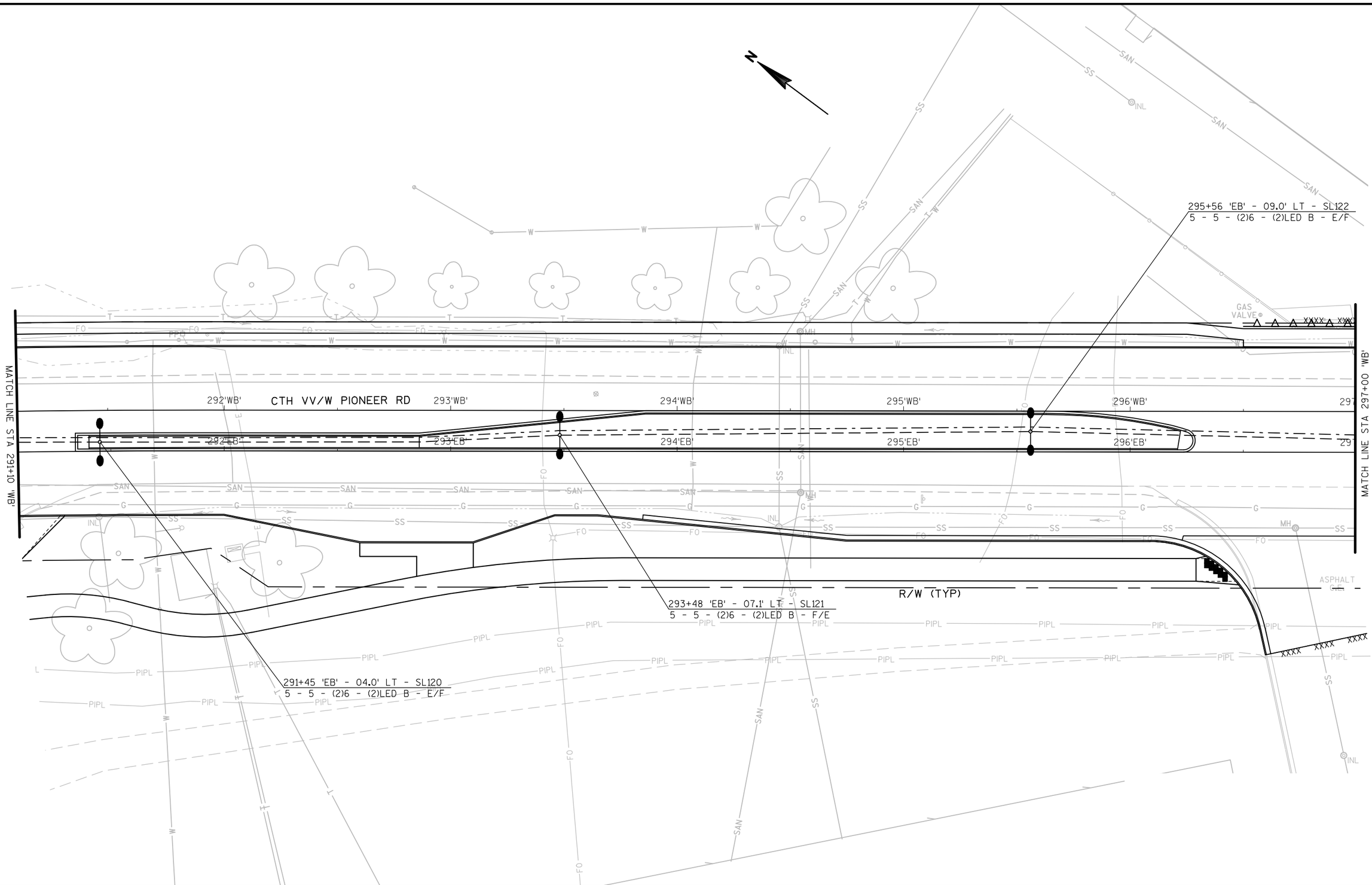
CB100		1	2"
E	1	#2	1	#2
F	1	#2	--	--
N	1	#2	--	--

= F



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING PLANS	SHEET 148	E

2

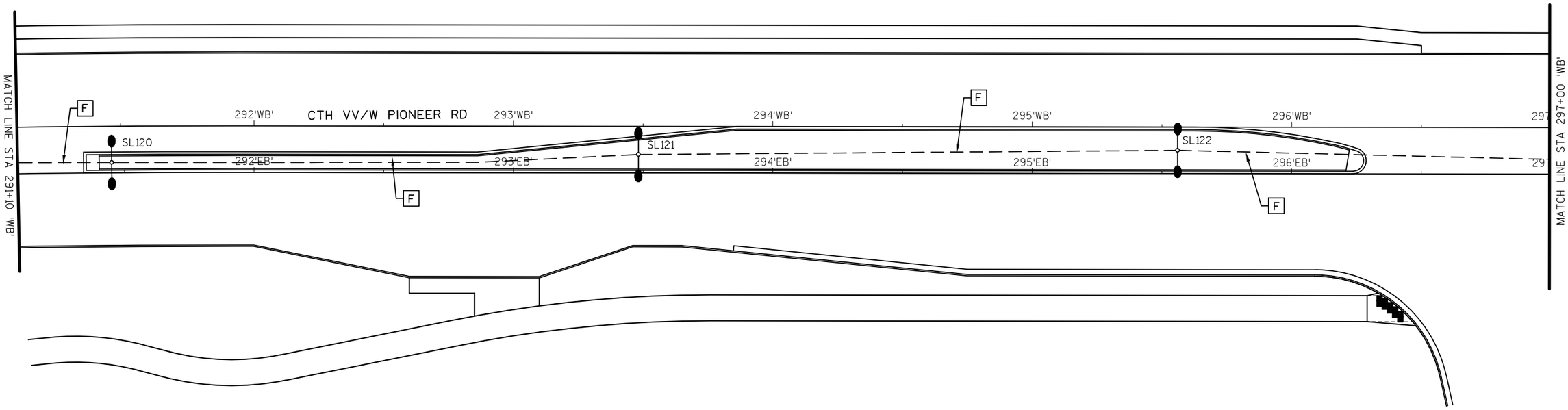


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 149	E

2

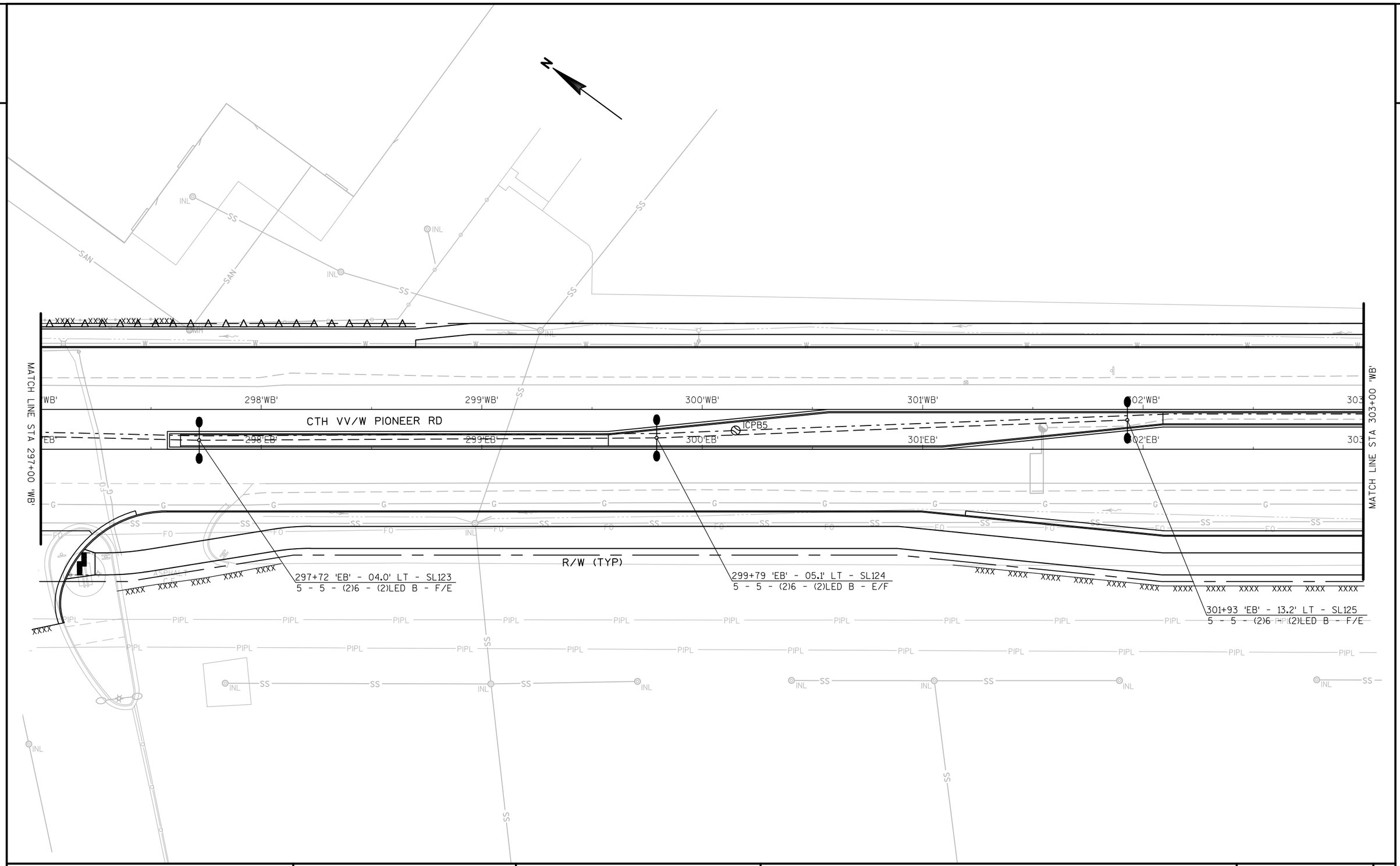
CB100		1	2"
E	1	#2	1	#2
F	1	#2	--	--
N	1	#2	--	--

= F



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING PLANS	SHEET 150	E

2

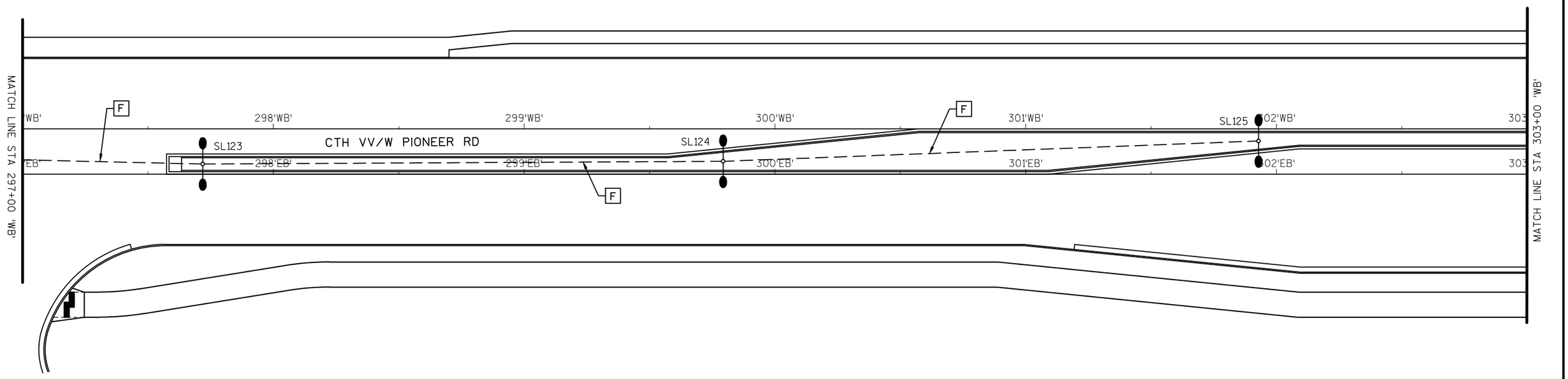


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 151	E

2

CB100		1	2"
E	1	#2	1 #2
F	1	#2	-- --
N	1	#2	-- --

= F



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING PLANS	SHEET 152	E

2

2

STREET LIGHTS SERVICED FROM SIGNAL CONTROL CABINET

307+41 'EB' - 04.0' LT - SL126
5 - 5 - (2)6 - (2)LED B - A/B

MATCH LINE STA 303+00 'WB'

MATCH LINE STA 309+00 'WB'

CTH VV/W PIONEER RD

R/W (TYP)

ICPB6

ICPB7

ICPB8

CB1

CV5

304'WB'

305'WB'

306'WB'

307'WB'

308'WB'

304'EB'

305'EB'

306'EB'

307'EB'

308'EB'

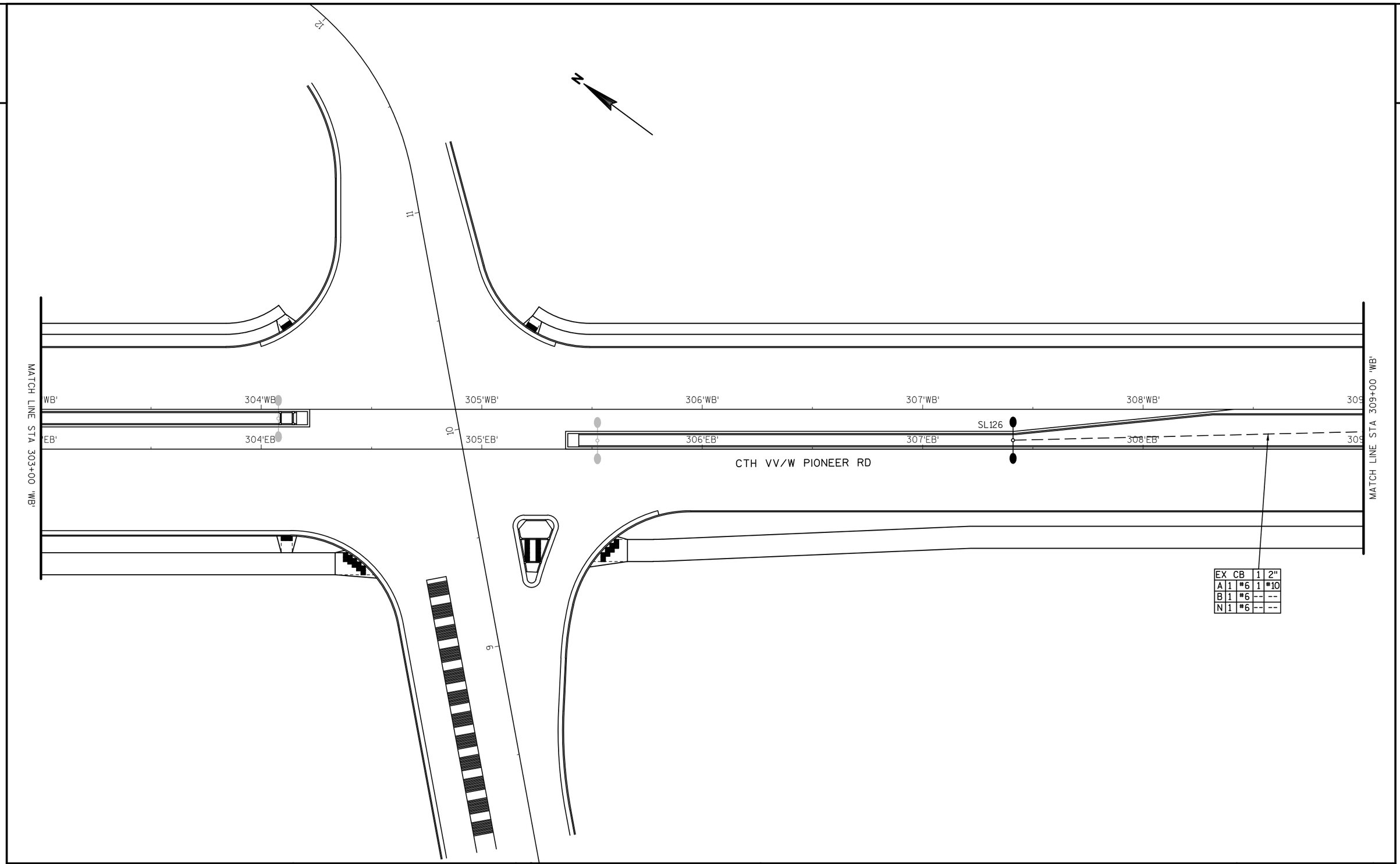
55'

50'

35'

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 153	E

2



PROJECT NO:4986-00-22	HWY:CTH VV	COUNTY:FOND DU LAC	LIGHTING PLANS	SHEET 154	E

2

N

MATCH LINE STA 309+00 'WB'

CTH VV/W PIONEER RD

310'WB'

311'WB'

312'WB'

313'WB'

314'WB'

310'EB'

311'EB'

312'EB'

ICPB9

GRAVEL F.E.

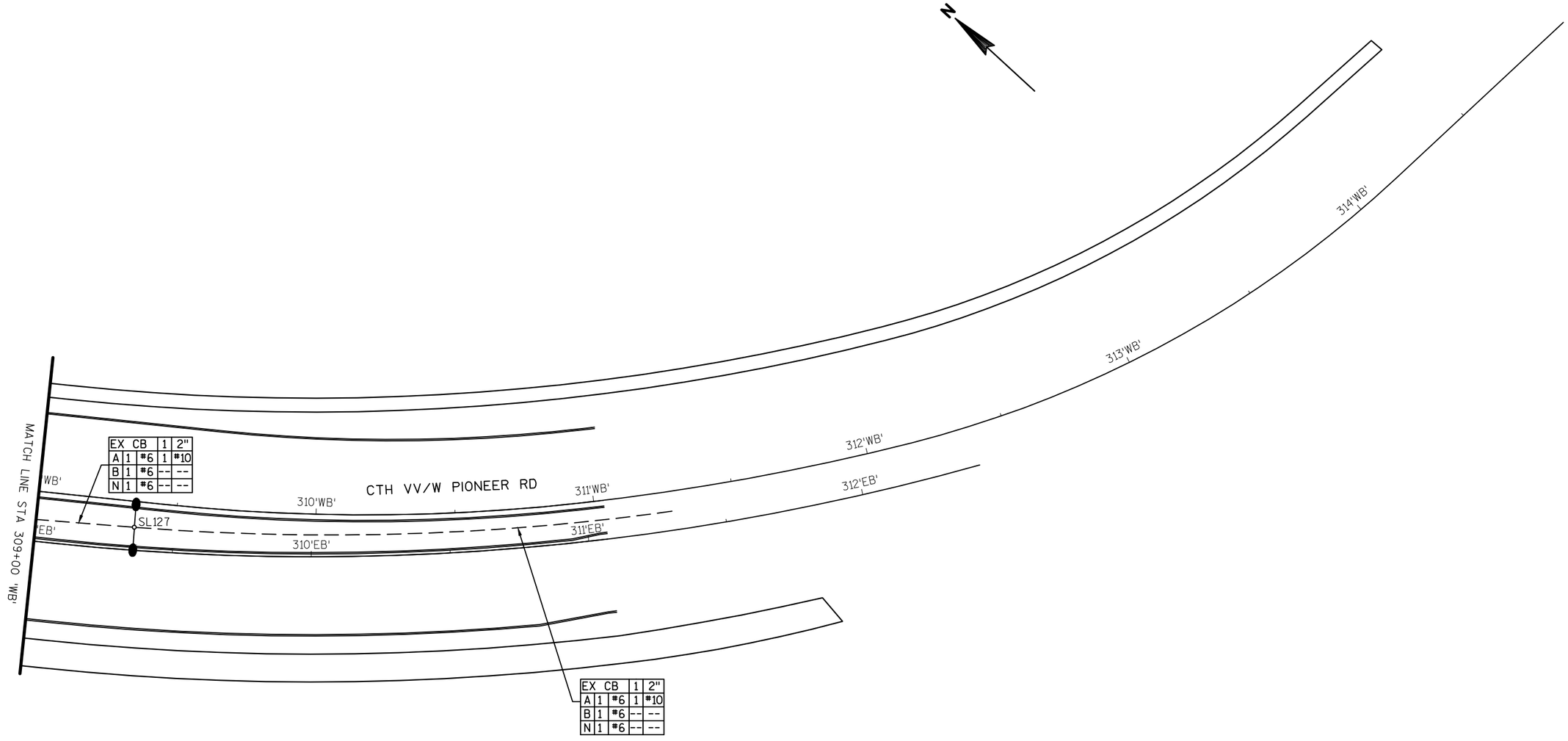
CREEK

R/W (TYP)

309+36 'EB' - 08.3' LT - SL127
5 - 5 - (2)6 - (2)LED B - B/A

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 155	E

2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING PLANS	SHEET 156	E

FILE NAME : G:\GREMMER\13021 - CTH VV\CIVIL3D\PLAN SHEETS\023602-LP.DWG PLOT DATE : 7/29/2016 10:12 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

524+00 'SUL' - 33.0' LT - SL103
5 - 5 - 12 - LED B - B

522+31 'SUL' - 40.7' RT - SL102
5 - 5 - 12 - LED B - D

EXSL01

EXSL02

ICPB10

MATCH LINE STA 521+37 'SUL'

R/W (TYP)

SULLIVAN DR

522'SUL'

523'SUL'

524'SUL'

525'SUL'

526'SUL'

527'SUL'

ASPHALT PARKING LOT

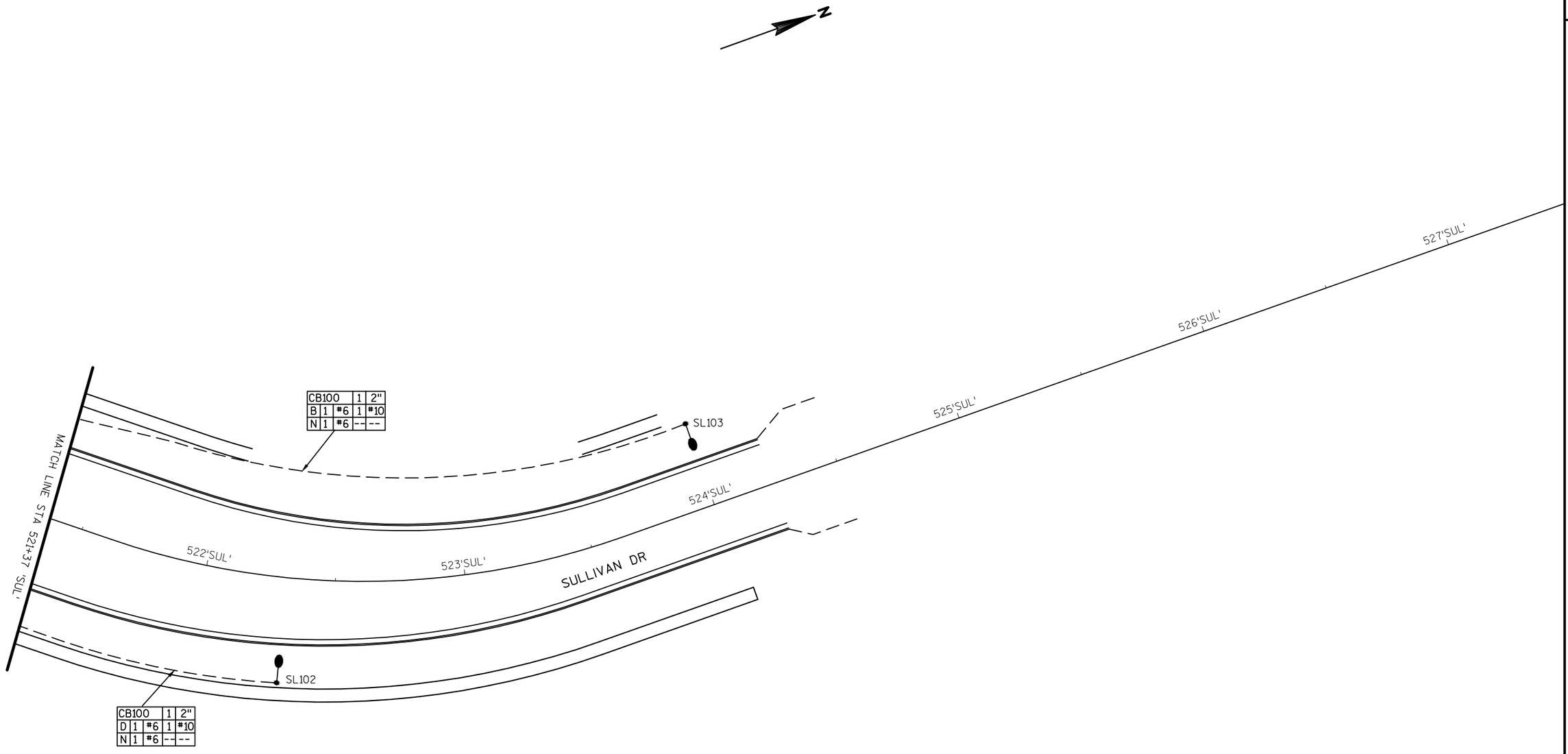
GATE

HEIGHT TO BOTTOM OF SIGN=16.45'

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 157	E

FILE NAME : G:\GREMMER\13021 - CTH VV\CIVIL3D\PLAN SHEETS\023601-LP.DWG PLOT DATE : 7/29/2016 10:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING PLANS	SHEET 158	E

2

444+70 'NB' - 10.7' LT - SL108
5 - 5 - (2)6 - (2)LED B - A/B

441'SB' 442'SB' 443'SB' 444'SB' 445'SB' 446'SB'

441'NB' 442'NB' ICPB11 443'NB' 444'NB' 445'NB' 446'NB'

S MILITARY RD

MATCH LINE STA 446+50 'SB'

R/W (TYP)

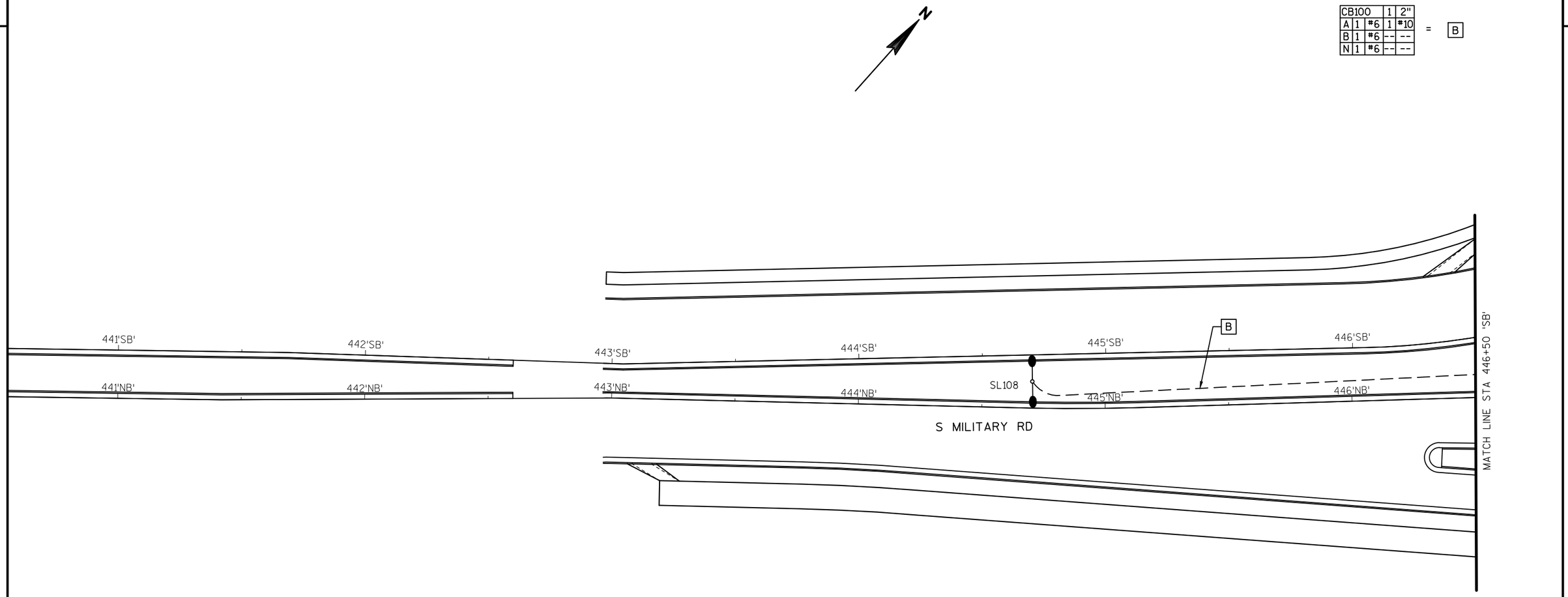
MH SAN PIPL INL W G FO SS

PROJECT NO:4986-00-22	HWY:CTH VV	COUNTY:FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 159	E

2

CB100		1	2"
A	1	#6	1	#10
B	1	#6	--	--
N	1	#6	--	--

= B



PROJECT NO:4986-00-22	HWY:CTH VV	COUNTY:FOND DU LAC	LIGHTING PLANS	SHEET 160	E

2

452+95 'SB' - 25.9' LT - SL114
5 - 5 - 12 - LED B - C

455+08 'SB' - 34.2' LT - SL115
5 - 5 - 12 - LED B - D

450+88 'NB' - 21.2' RT - SL113
5 - 5 - 12 - LED B - D

R/W (TYP)

MATCH LINE STA 450+25 'SB'

MATCH LINE STA 455+75 'SB'

451'SB' 452'SB' 453'SB' 454'SB' 455'SB'

S MILITARY RD

451'NB' 452'NB' 453'NB' 454'NB' 455'NB'

OAK PARK AVE

ASPHALT C.E.

CONCRETE C.E.

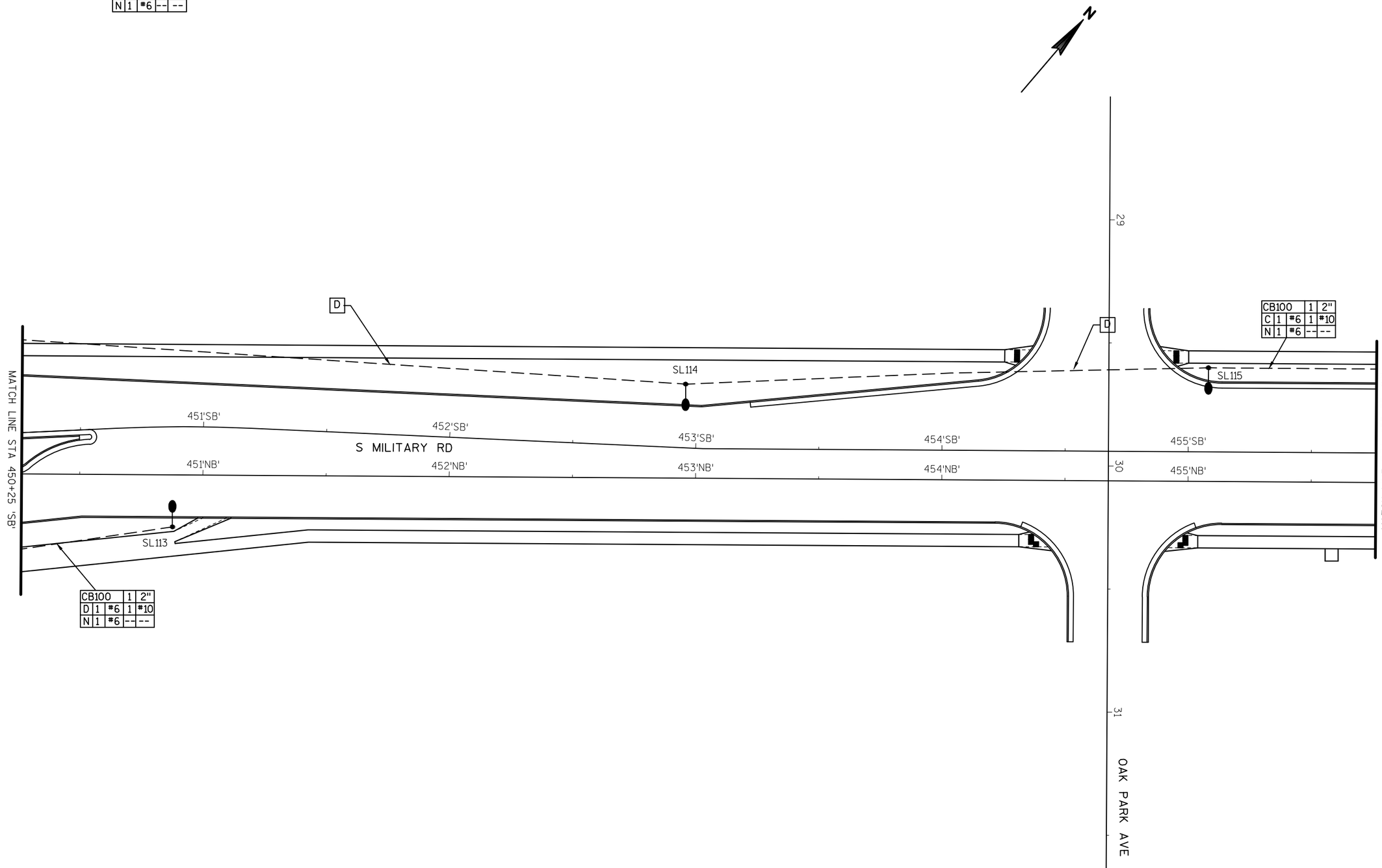
CONCRETE P.E.

GRAVEL C.E.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 161	E

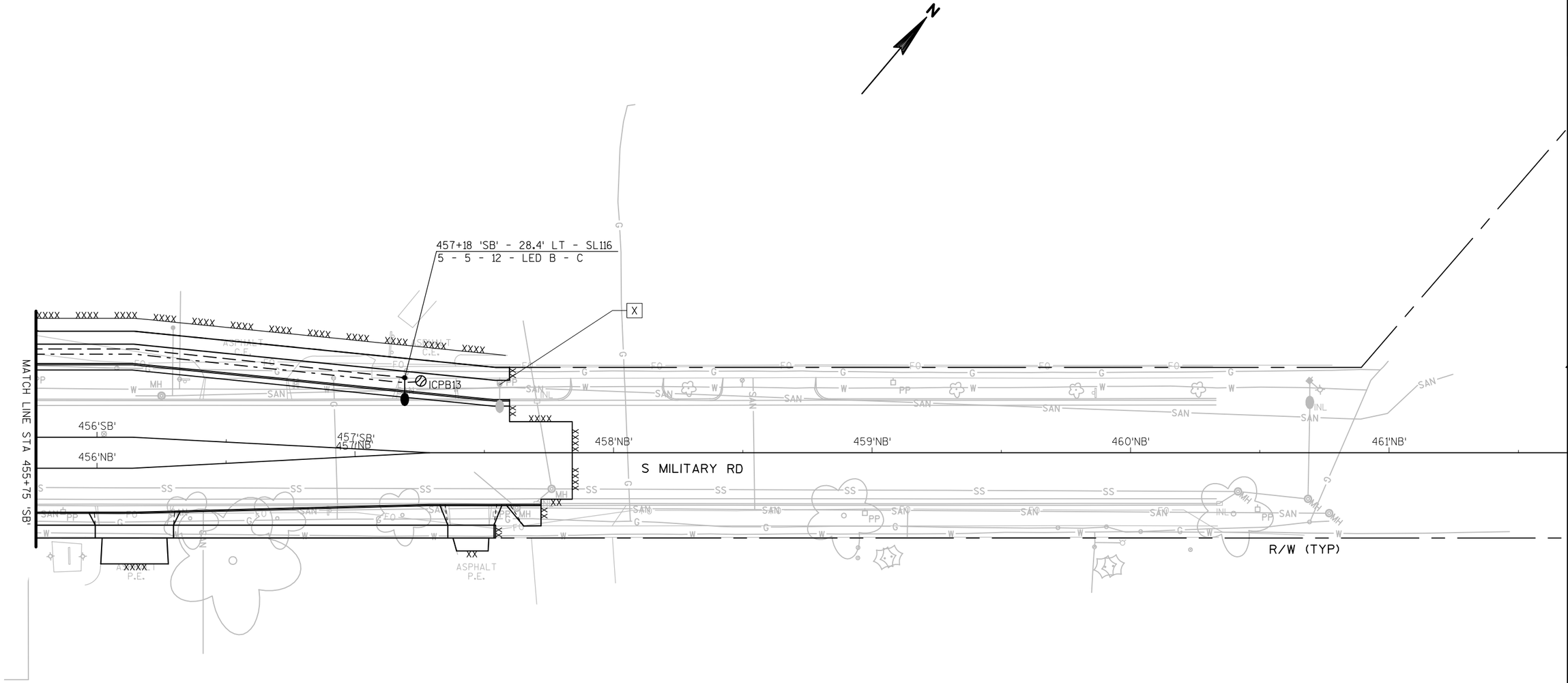
CB100			1	2"
C	1	#6	1	#10
D	1	#6	--	--
N	1	#6	--	--

= D



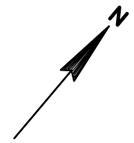
PROJECT NO:4986-00-22	HWY:CTH VV	COUNTY:FOND DU LAC	LIGHTING PLANS	SHEET 162	E

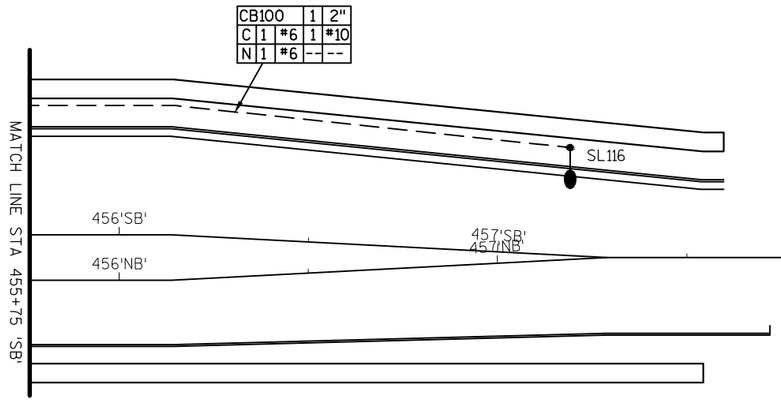
2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING AND INTERCONNECT PLANS	SHEET 163	E

2



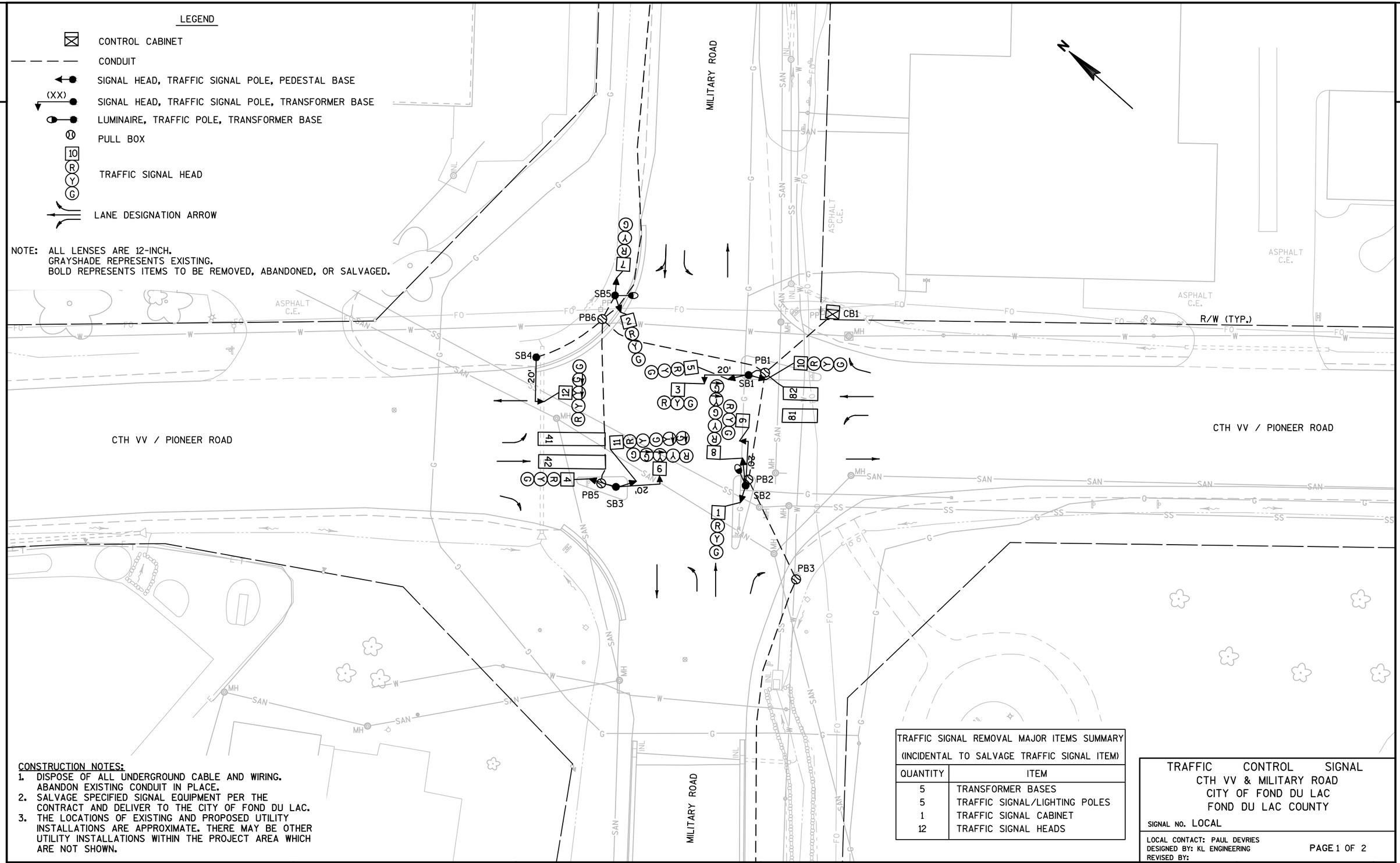


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	LIGHTING PLANS	SHEET 164	E

LEGEND

- CONTROL CABINET
- CONDUIT
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- PULL BOX
- 10 R Y G TRAFFIC SIGNAL HEAD
- LANE DESIGNATION ARROW

NOTE: ALL LENSES ARE 12-INCH.
GRAYSHADE REPRESENTS EXISTING.
BOLD REPRESENTS ITEMS TO BE REMOVED, ABANDONED, OR SALVAGED.



CONSTRUCTION NOTES:
1. DISPOSE OF ALL UNDERGROUND CABLE AND WIRING. ABANDON EXISTING CONDUIT IN PLACE.
2. SALVAGE SPECIFIED SIGNAL EQUIPMENT PER THE CONTRACT AND DELIVER TO THE CITY OF FOND DU LAC.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

TRAFFIC SIGNAL REMOVAL MAJOR ITEMS SUMMARY
(INCIDENTAL TO SALVAGE TRAFFIC SIGNAL ITEM)

QUANTITY	ITEM
5	TRANSFORMER BASES
5	TRAFFIC SIGNAL/LIGHTING POLES
1	TRAFFIC SIGNAL CABINET
12	TRAFFIC SIGNAL HEADS

TRAFFIC CONTROL SIGNAL
CTH VV & MILITARY ROAD
CITY OF FOND DU LAC
FOND DU LAC COUNTY

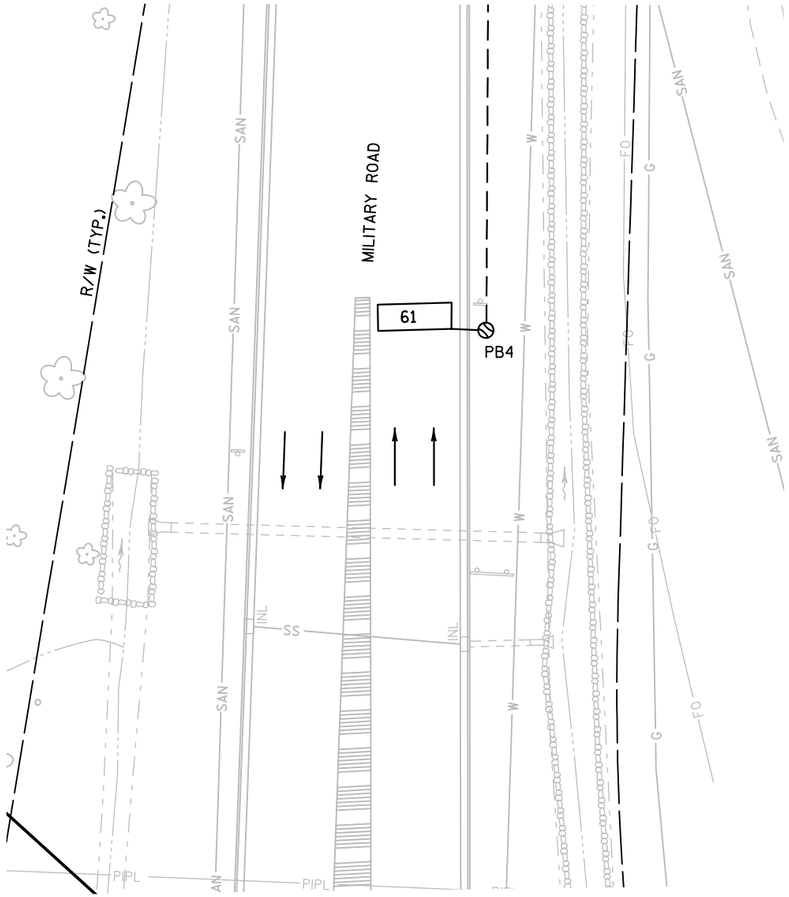
SIGNAL NO. LOCAL

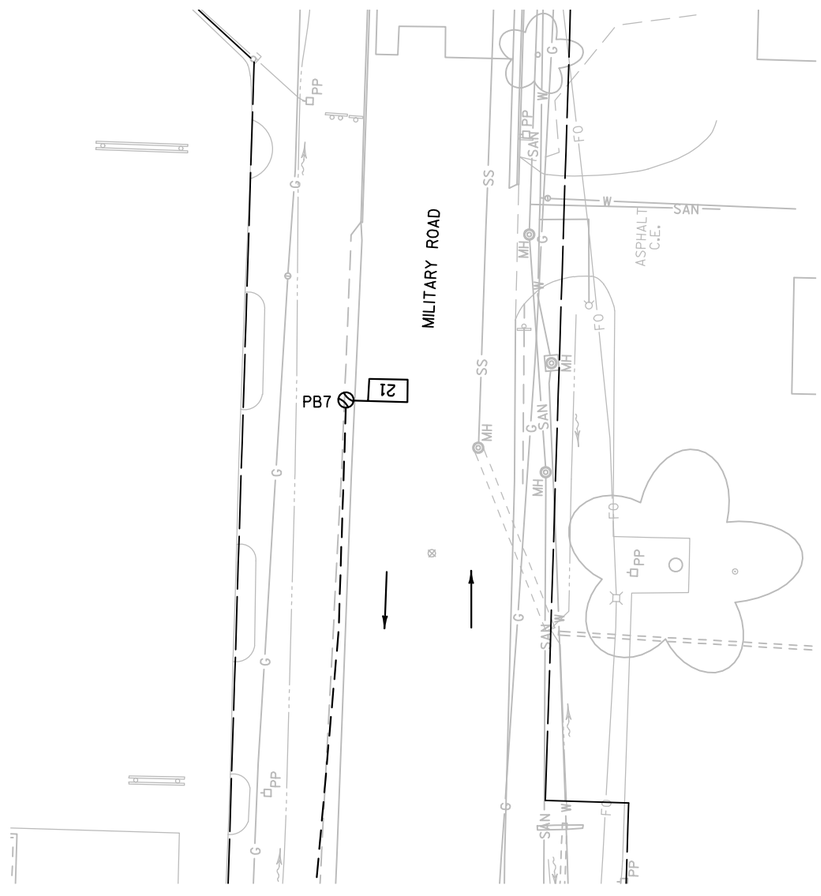
LOCAL CONTACT: PAUL DEVRIES
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 165	E

2





LEGEND

CONDUIT

PULL BOX

LANE DESIGNATION ARROW

NOTE: GRAYSHADE REPRESENTS EXISTING.
BOLD REPRESENTS ITEMS TO BE REMOVED, ABANDONED, OR SALVAGED.

TRAFFIC CONTROL SIGNAL
CTH VV & MILITARY ROAD
CITY OF FOND DU LAC
FOND DU LAC COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: PAUL DEVRIES
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 166	E

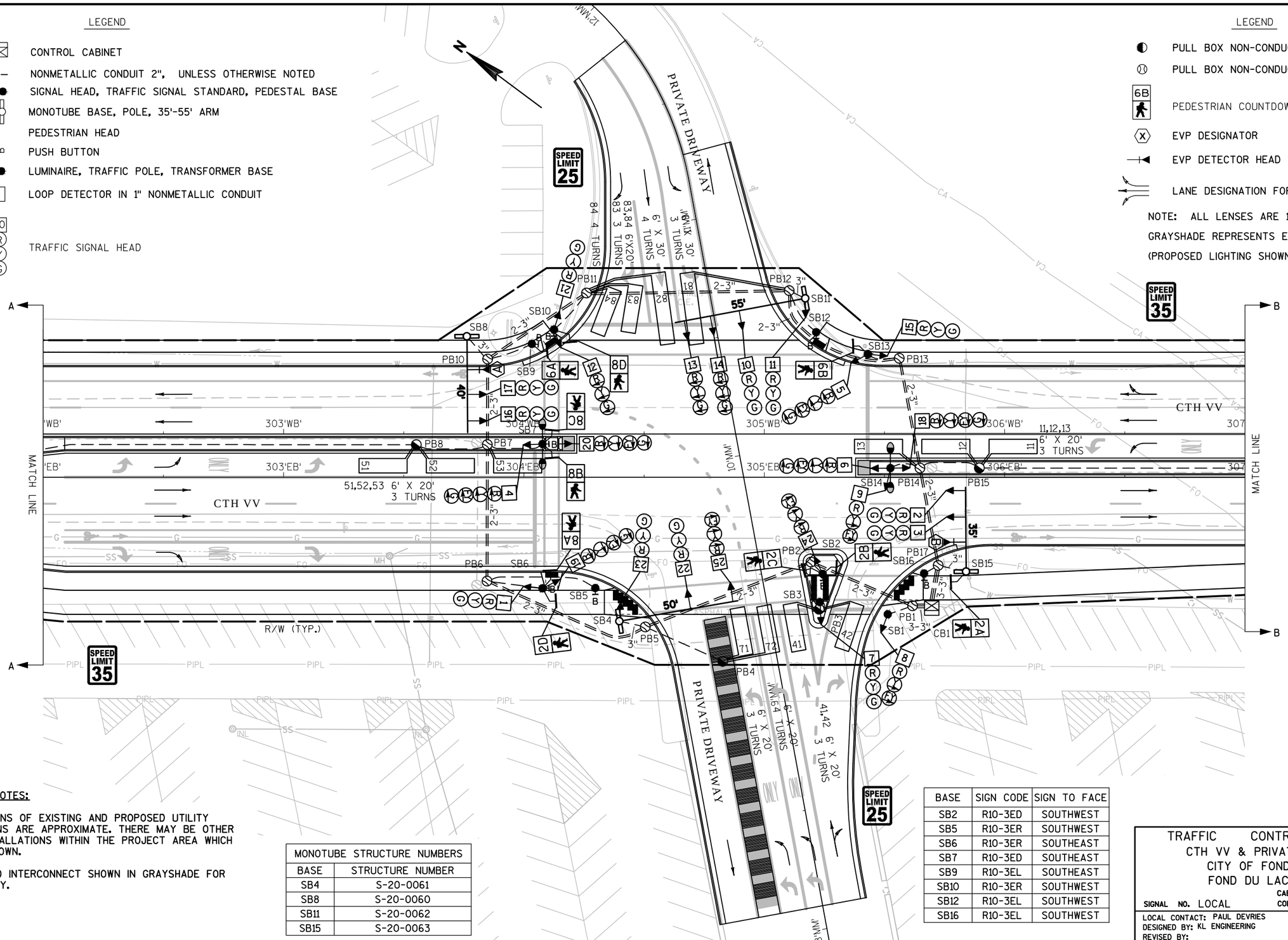
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD
- PB PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- 10 R Y G TRAFFIC SIGNAL HEAD

LEGEND

- PULL BOX NON-CONDUCTIVE, 24" X 36"
- PULL BOX NON-CONDUCTIVE, 24" X 42"
- 6B PEDESTRIAN COUNTDOWN TIMER 16-1NCH
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING
(PROPOSED LIGHTING SHOWN AS EXISTING)



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2. LIGHTING AND INTERCONNECT SHOWN IN GRAYSHADE FOR PLAN CLARITY.

MONOTUBE STRUCTURE NUMBERS	
BASE	STRUCTURE NUMBER
SB4	S-20-0061
SB8	S-20-0060
SB11	S-20-0062
SB15	S-20-0063

BASE	SIGN CODE	SIGN TO FACE
SB2	R10-3ED	SOUTHWEST
SB5	R10-3ER	SOUTHWEST
SB6	R10-3ER	SOUTHEAST
SB7	R10-3ED	SOUTHEAST
SB9	R10-3EL	SOUTHEAST
SB10	R10-3ER	SOUTHWEST
SB12	R10-3EL	SOUTHWEST
SB16	R10-3EL	SOUTHWEST

TRAFFIC CONTROL SIGNAL
CTH VV & PRIVATE DRIVEWAY
CITY OF FOND DU LAC
FOND DU LAC COUNTY

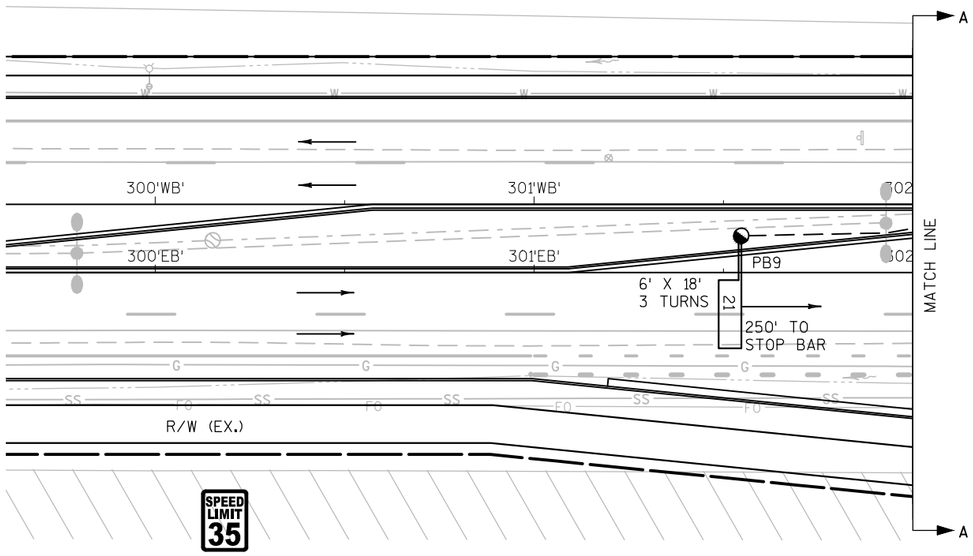
CABINET TYPE: TS2
SIGNAL NO. LOCAL CONTROLLER TYPE: EPAC

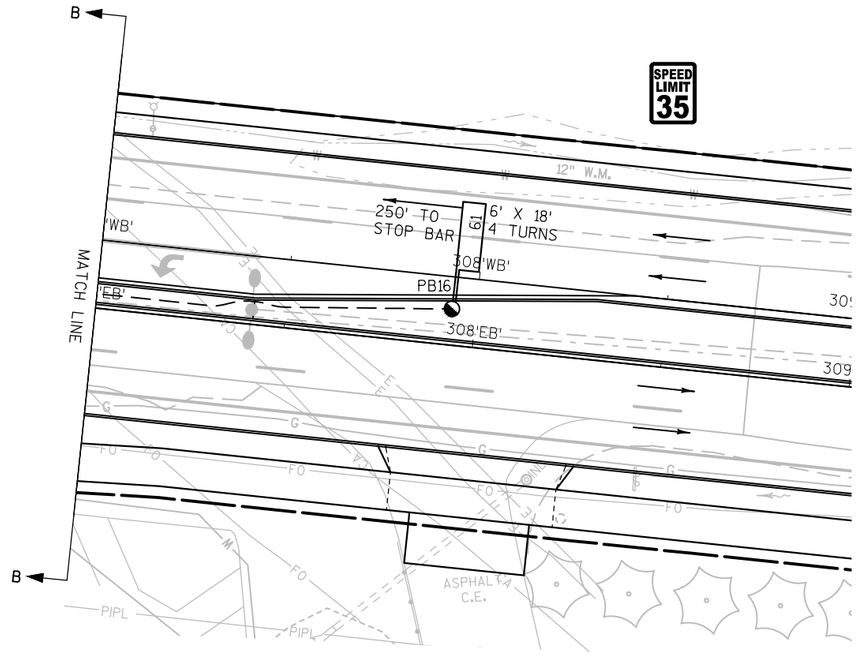
LOCAL CONTACT: PAUL DEVRIES
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 1 OF 4

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TRAFFIC SIGNAL PLAN	SHEET 167 E

2





LEGEND

- - - - - - NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

PULL BOX NON-CONDUCTIVE, 24" X 42"

LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

GRAYSHADE REPRESENTS EXISTING

(PROPOSED LIGHTING SHOWN AS EXISTING)

TRAFFIC CONTROL SIGNAL
CTH VV & PRIVATE DRIVEWAY
CITY OF FOND DU LAC
FOND DU LAC COUNTY

SIGNAL NO. LOCAL

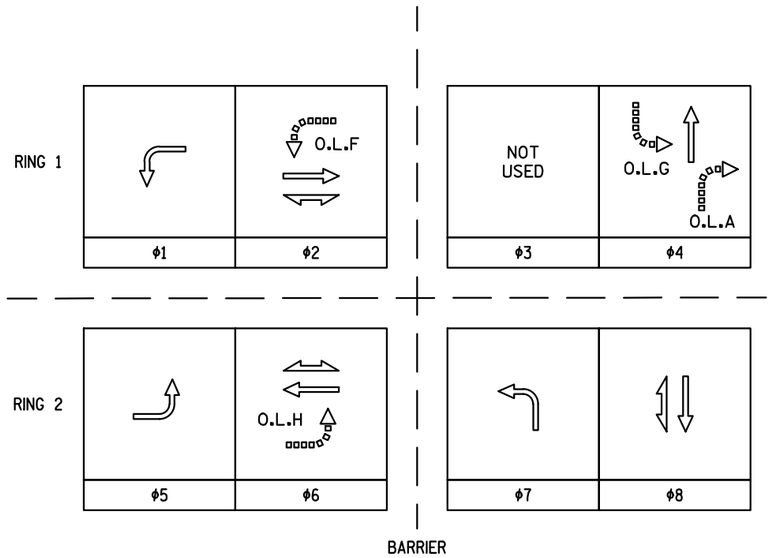
LOCAL CONTACT: PAUL DEVRIES
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 2 OF 4

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TRAFFIC SIGNAL PLAN	SHEET 168	E

	HEAD NUMBERS	FLASH
ϕ1	18-20	-
ϕ2	1-3	R
ϕ3		
ϕ4	7,10,11	R
ϕ5	4-6	-
ϕ6	15-17	R
ϕ7	12-14	R
ϕ8	21-23	R
ϕ2 PED	2A,2B,2C,2D	
ϕ4 PED		
ϕ6 PED	6A,6B	
ϕ8 PED	8A,8B,8C,8D	

O.L. ASSIGNMENTS			
O.L.A	8,9	R	4
O.L.B			
O.L.C			
O.L.D			
O.L.E			
O.L.F	18-20	R	1,2
O.L.G	24,25	R	4
O.L.H	4-6	R	5,6



TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE LIGHTING CABINET	X

CENTRAL SYSTEM	
LOCATION OF MASTER CONTROLLER NO:	N/A
SIGNAL SYSTEM *:	N/A

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W /ϕ	PHASE RECALL	PHASE ACTIVE
1				X
2	X	6	MIN	X
3				
4		7		X
5				X
6	X	2	MIN	X
7				X
8		4		X

PREEMPTION ASSIGNMENTS

PREEMPTION DESIGNATION	PREEMPTION TYPE	EVP CHANNEL	PHASE(S) CALLED
1	RESERVED	-	-
2	RESERVED	-	-
3	EVP	A	1+6
4	EVP	B	2+5
5	NOT USED	-	-
6	NOT USED	-	-
7	NOT USED	-	-
8	NOT USED	-	-
9	NOT USED	-	-
10	NOT USED	-	-

TYPE OF INTERCONNECT	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF REMOTE COMMUNICATION	
NONE	X
FIBER	
CELL MODEM	
PHONE	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
DETECTOR *(S)	11	13	21	41	42	51	53	61	71	72	81	82	83	84		
PHASE CALLED	1		2	4	4	5		6	7	7	4	8	8	8		
PHASE EXTENDED	2	1,2	2	4	4	6	5,6	6	7	7	4	8	8	8		
DISCONNECT TIME																
CALLING DELAY					10.0						2.0		10.0	10.0		
EXTENSION STRETCH																
LOOP FUNCTION																

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
DETECTOR *(S)	12					52										
PHASE CALLED																
PHASE EXTENDED	1,2					5,6										
DISCONNECT TIME																
CALLING DELAY																
EXTENSION STRETCH																
LOOP FUNCTION																

TRAFFIC CONTROL SIGNAL
CTH VV & PRIVATE DRIVEWAY
CITY OF FOND DU LAC
FOND DU LAC COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: PAUL DEVRIES
DESIGNED BY: KL ENGINEERING
REVISED BY:

FILE NAME : G:\GREMMER\13021 - CTH VV\CIVIL3D\PLAN SHEETS\024301-PH.DWG
LAYOUT NAME - 024301-PH - SEQUENCE
PLOT DATE : 7/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

PROJECT ID:	4986-00-22
INTERSECTION:	CTH VV & PRIVATE DRIVEWAY

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR									PED BUTTON	OTHER
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	8	4	RED				ORG/BLK		BLK/WHT				
SB2	12	2B	2								BLK	BLU		
		2C	2								BLK	BLU		
		24	O.L.G				RED/BLK	ORG/BLK		BLK/WHT				
		BUTTON	2										WHT/BLK	
SB3	12	7	4	RED	ORG	GRN								
SB4	12	22	8	RED	ORG	GRN								
		23	8	RED	ORG	GRN								
		25	O.L.G				RED/BLK	ORG/BLK		BLK/WHT				
SB5	12	BUTTON	2										WHT/BLK	
SB6	15	1	8	RED	ORG	GRN								
		8A	8								BLK	BLU		
		19	1				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		BUTTON	8										WHT/BLK	
		2D	2								RED/WHT	BLU/WHT		
SB7	12	4	5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		8B	8								BLK	BLU		
		8C	8								BLK	BLU		
		20	1				RED	ORG	GRN	BLU/BLK				
		BUTTON	8										WHT/BLK	
SB8	12	16	6	RED	ORG	GRN								
		17	6	RED	ORG	GRN								
SB9	12	6A	6								BLK	BLU		
		BUTTON	8										WHT/BLK	
SB10	12	8D	8								BLK	BLU		
		12	7				RED/BLK	ORG/BLK	GRN/BLK					
		21	8	RED	ORG	GRN								
		BUTTON	6										WHT/BLK	
SB11	12	10	4	RED	ORG	GRN								
		11	4	RED	ORG	GRN								
		13	7				RED/BLK	ORG/BLK	GRN/BLK					
		14	7				RED/BLK	ORG/BLK	GRN/BLK					
SB12	12	BUTTON	6										WHT/BLK	
SB13	12	6B	6								BLK	BLU		
		5	5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		15	6	RED	ORG	GRN								
SB14	15	6	5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		9	4	RED				ORG		GRN				
		18	1				RED/WHT	BLU/BLK	GRN/WHT	BLU/WHT				
SB15	12	2	2	RED	ORG	GRN								
		3	2	RED	ORG	GRN								
		2A	2								BLK	BLU		
SB16	12	BUTTON	2										WHT/BLK	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	SB17
SB17	CB1

LIGHTING UF #12 AWG W/GROUND	
FROM	TO
CB1	SB7
CB1	SB14

EMERGENCY VEHICLE PREEMPTION CABLE	
FROM	TO
CABINET	SB8
CABINET	SB15

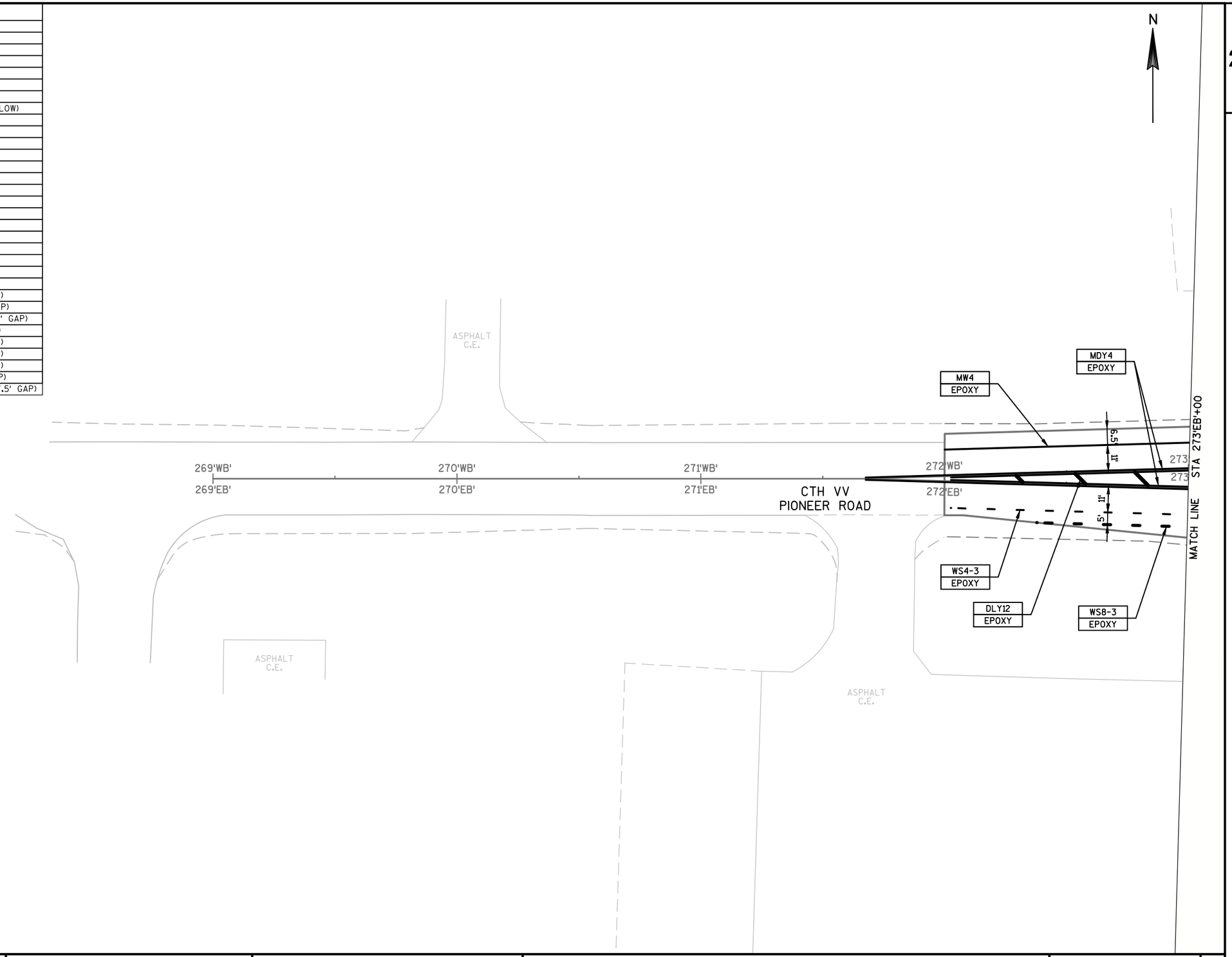
TRAFFIC CONTROL SIGNAL
CTH VV & PRIVATE DRIVEWAY
CITY OF FOND DU LAC
FOND DU LAC COUNTY

LOCAL CONTACT: PAUL DEVRIES
DESIGNED BY: KL ENGINEERING
REVISED BY:

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CABLE ROUTING PLAN	SHEET 170 E

FILE NAME: G:\Gremmer\13021 - CTH VV\Civil3D\Plan Sheets\024401-CR.ppt

LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

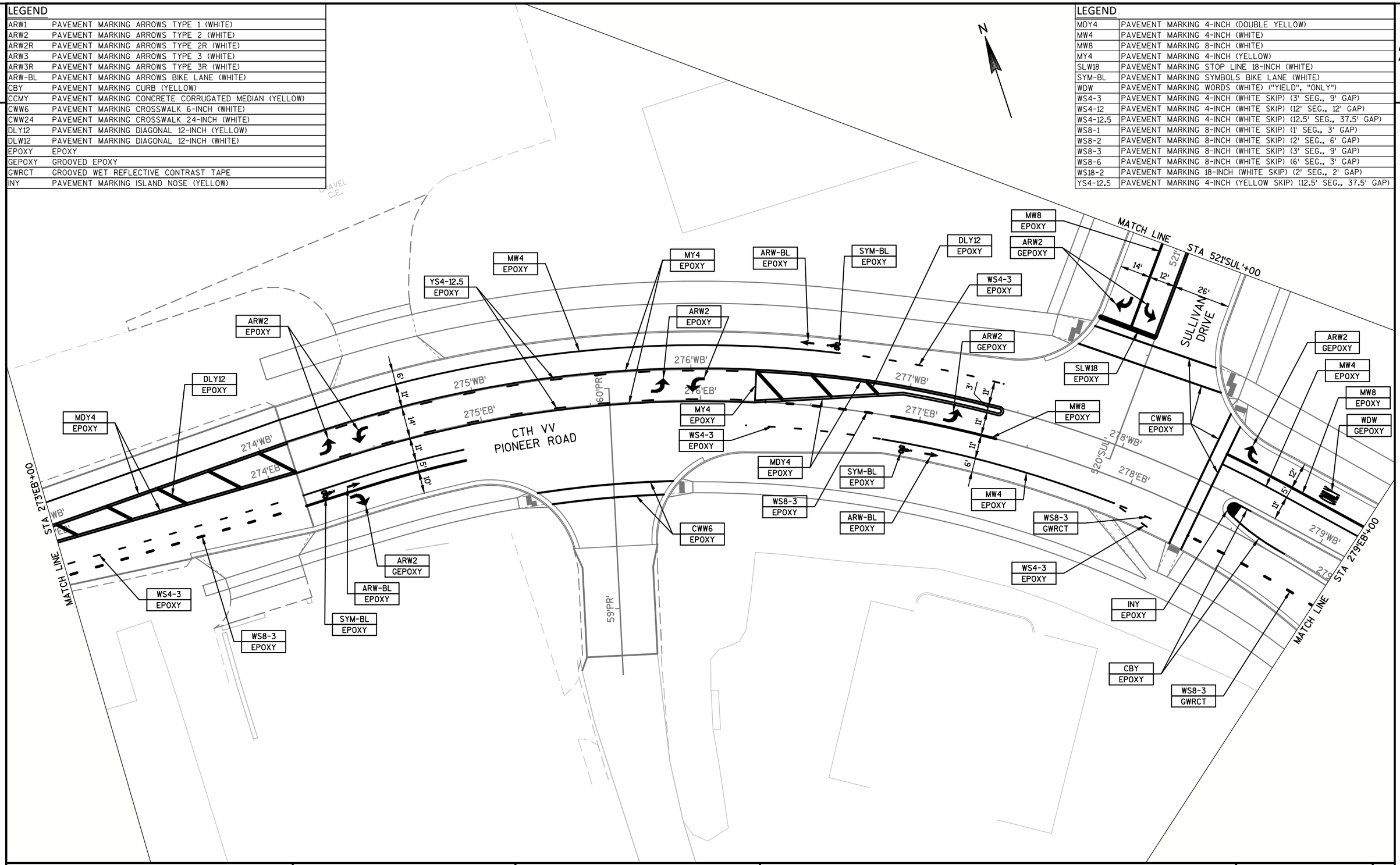


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-024501-PM.DWG
LAYOUT NAME - 49860022-024501-PM-01-CTH VV
PLOT DATE : 7/29/2016 9:24 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

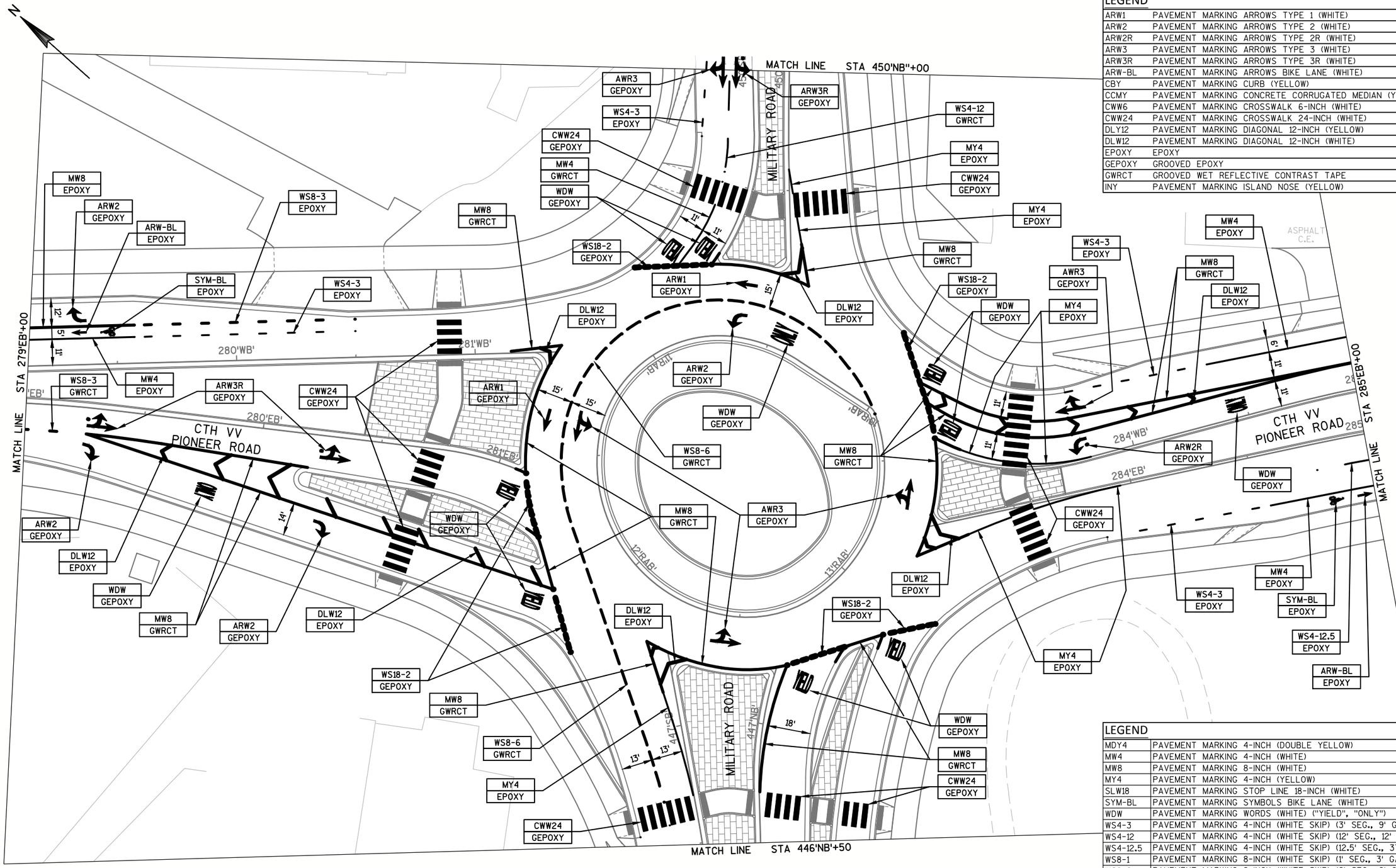
LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: CTH VV	SHEET 172	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-024501-PM.DWG
LAYOUT NAME - 49860022-024501-PM-02-CTH VV
PLOT DATE : 7/29/2016 9:24 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42



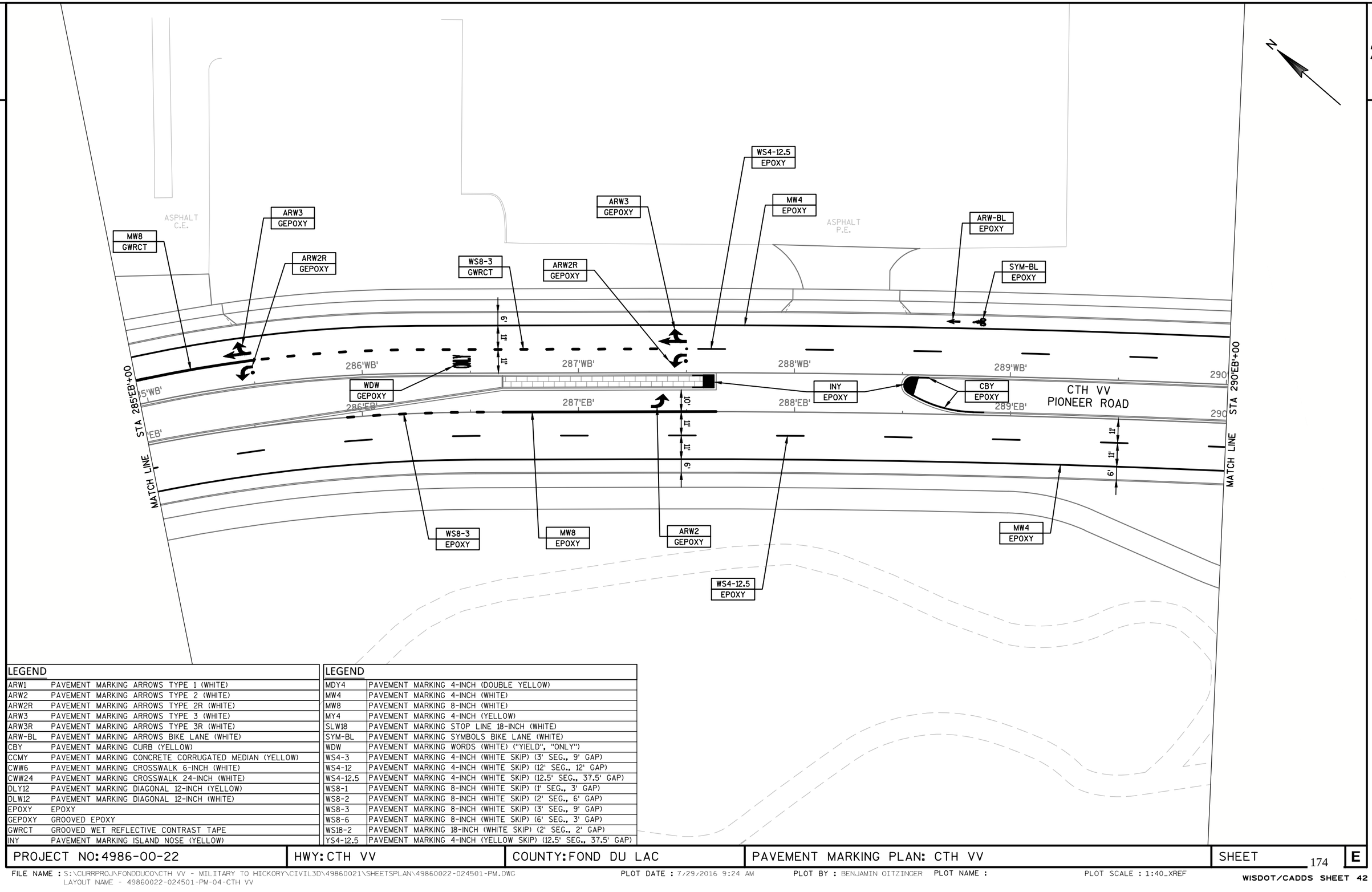
LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: CTH VV	SHEET 173 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-024501-PM.DWG
LAYOUT NAME - 49860022-024501-PM-03-CTH VV
PLOT DATE : 7/29/2016 9:24 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

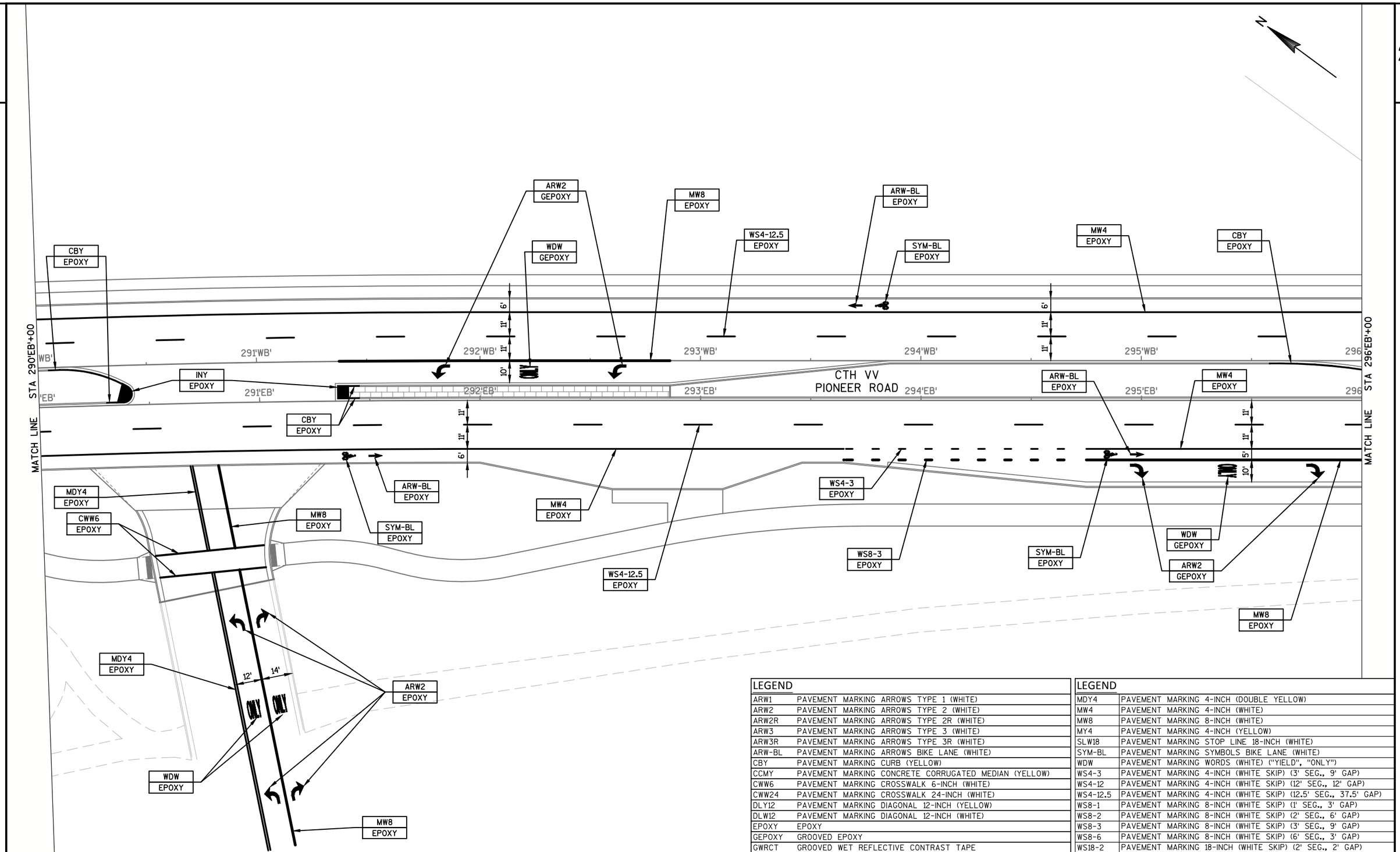


LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: CTH VV	SHEET 174	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-024501-PM.DWG
LAYOUT NAME - 49860022-024501-PM-04-CTH VV
PLOT DATE : 7/29/2016 9:24 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF



LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: CTH VV	SHEET 175	E

2

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N

STA 296'EB'+00

STA 302'EB'+00

MATCH LINE

MATCH LINE

296'WB' 297'WB' 298'WB' 299'WB' 300'WB' 301'WB' 302'WB'

296'EB' 297'EB' 298'EB' 299'EB' 300'EB' 301'EB' 302'EB'

CTH VV
PIONEER ROAD

6'
11'
11'
10'

11'
11'
6'

6'
11'
11'

5'

ARW2
GEPOXY

ARW-BL
EPOXY

SYM-BL
EPOXY

MW8
EPOXY

WDW
GEPOXY

ARW2
GEPOXY

WS4-12.5
EPOXY

MW4
EPOXY

CBY
EPOXY

INY
EPOXY

CWW6
EPOXY

SYM-BL
EPOXY

ARW-BL
EPOXY

WS4-12.5
EPOXY

MW4
EPOXY

WS4-3
EPOXY

WS8-3
EPOXY

LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: CTH VV	SHEET 176 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-024501-PM.DWG
LAYOUT NAME - 49860022-024501-PM-06-CTH VV
PLOT DATE : 7/29/2016 9:24 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

N

MERCURY MARINE ENTRANCE

CTH VV
PIONEER ROAD

MATCH LINE STA 302'EB'+00

MATCH LINE STA 308'EB'+00

303'WB' 304'WB' 305'WB' 306'WB' 307'WB'

303'EB' 304'EB' 305'EB' 306'EB' 307'EB'

MW8 EPOXY
ARW1 EPOXY
ARW2 EPOXY
SLW18 EPOXY
MDY4 EPOXY
ARW2 EPOXY
CWW6 EPOXY
MW4 EPOXY
WS4-12.5 EPOXY
ARW2 GEPOXY
SYM-BL EPOXY
ARW-BL EPOXY
WDW GEPOXY
MW8 EPOXY
ARW2 GEPOXY
ARW2 GEPOXY
CWW6 EPOXY
WS8-2 EPOXY
SLW18 EPOXY
INY EPOXY
INY EPOXY
CBY EPOXY
ARW-BL EPOXY
MW8 EPOXY
SLW18 EPOXY
CWW6 EPOXY
SLW18 EPOXY
CWW6 EPOXY
ARW-BL EPOXY
SYM-BL EPOXY
MW4 EPOXY
WDW GEPOXY
ARW2 GEPOXY
WS4-12.5 EPOXY
MW8 EPOXY
MW4 EPOXY
SYM-BL EPOXY
WS4-12.5 EPOXY
MW8 EPOXY
ARW2 EPOXY
ARW1 EPOXY
ARW2 EPOXY
WS8-3 EPOXY
WDW EPOXY
MW8 EPOXY
ARW2 EPOXY
CCMY EPOXY
MY4 EPOXY

MERCURY MARINE ENTRANCE

ONLY ONLY

LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-024501-PM.DWG
LAYOUT NAME - 49860022-024501-PM-07-CTH VV

PLOT DATE : 7/29/2016 9:25 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF

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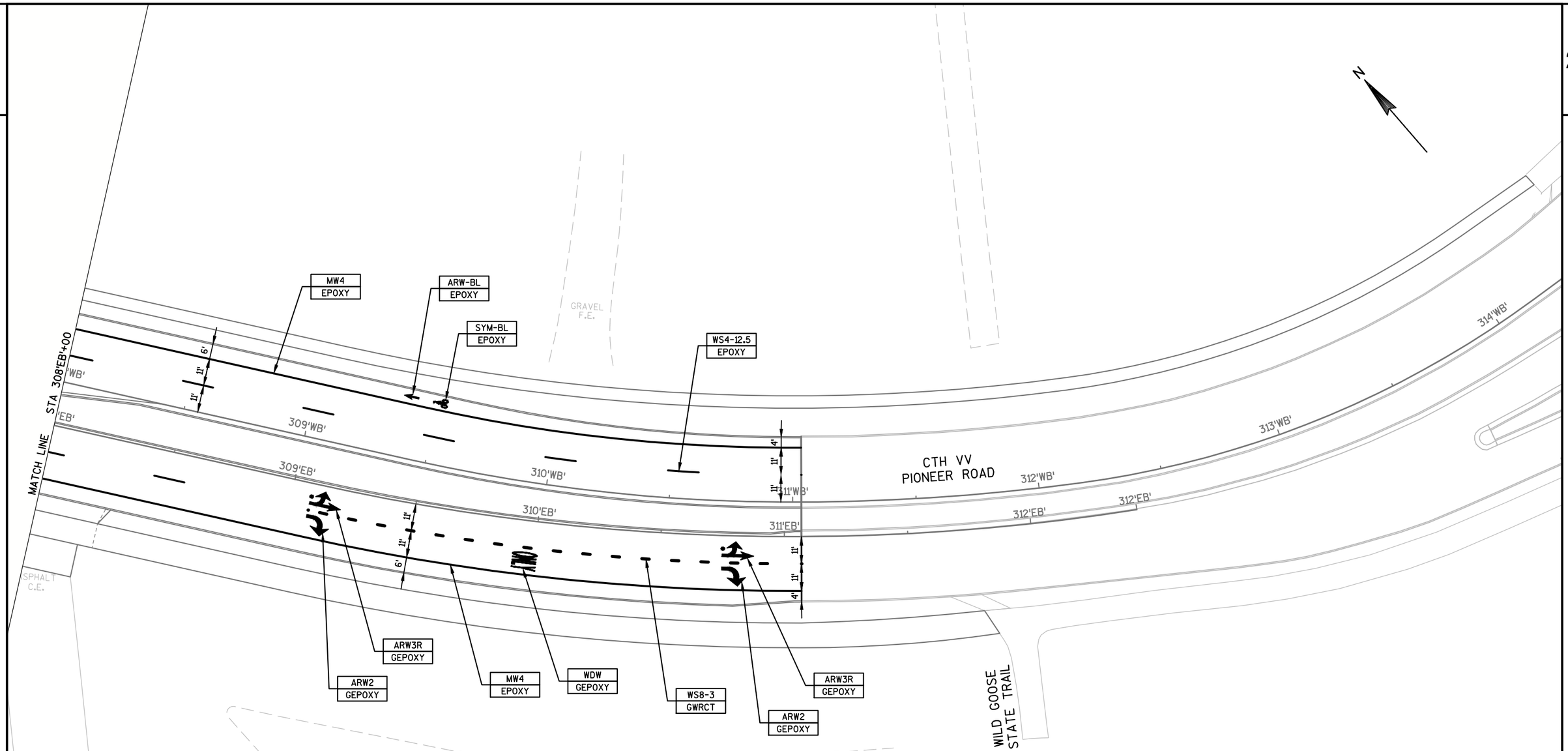

LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: CTH VV	SHEET 178	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-024501-PM.DWG
LAYOUT NAME - 49860022-024501-PM-08-CTH VV
PLOT DATE : 7/29/2016 9:25 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

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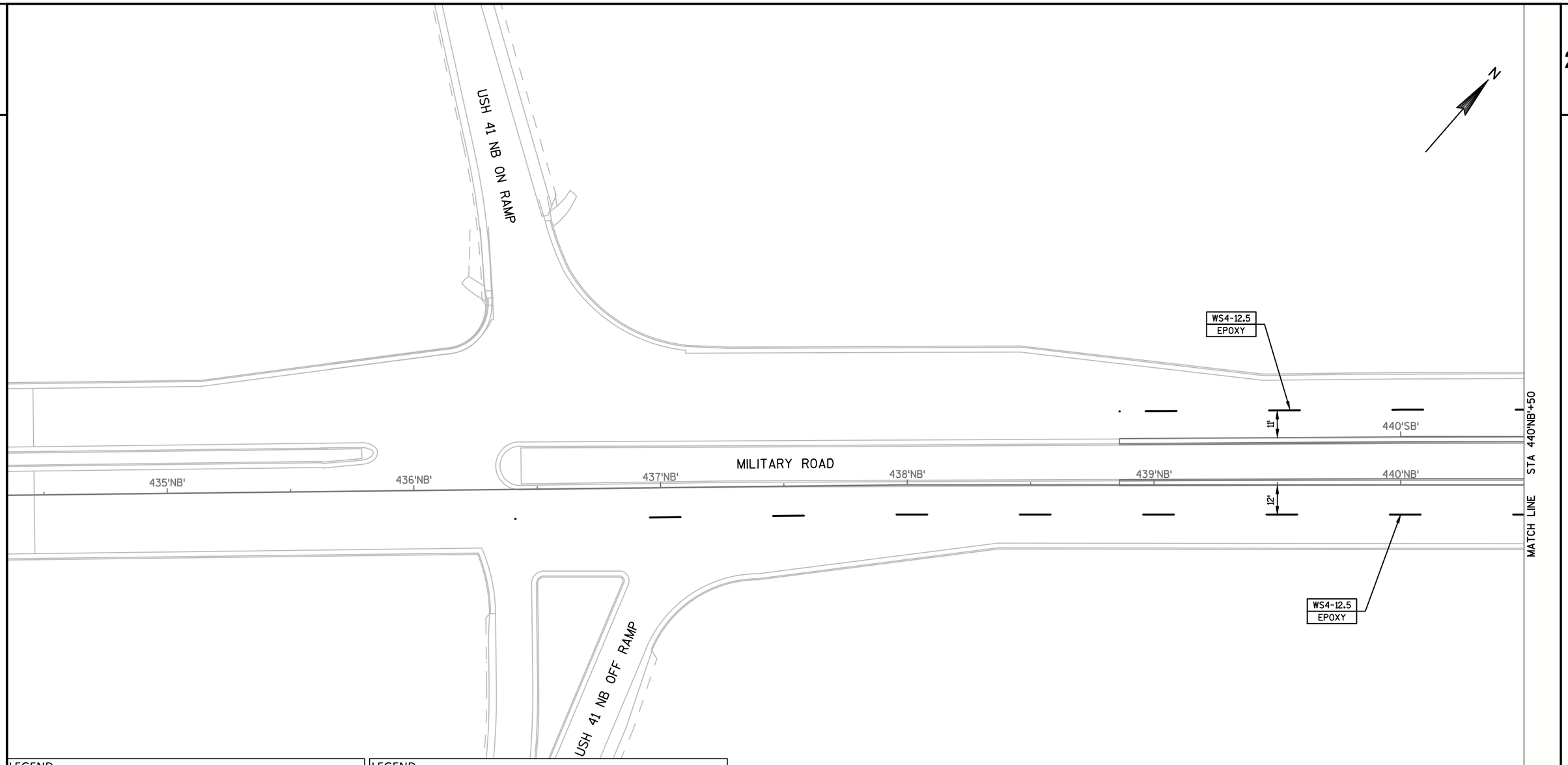


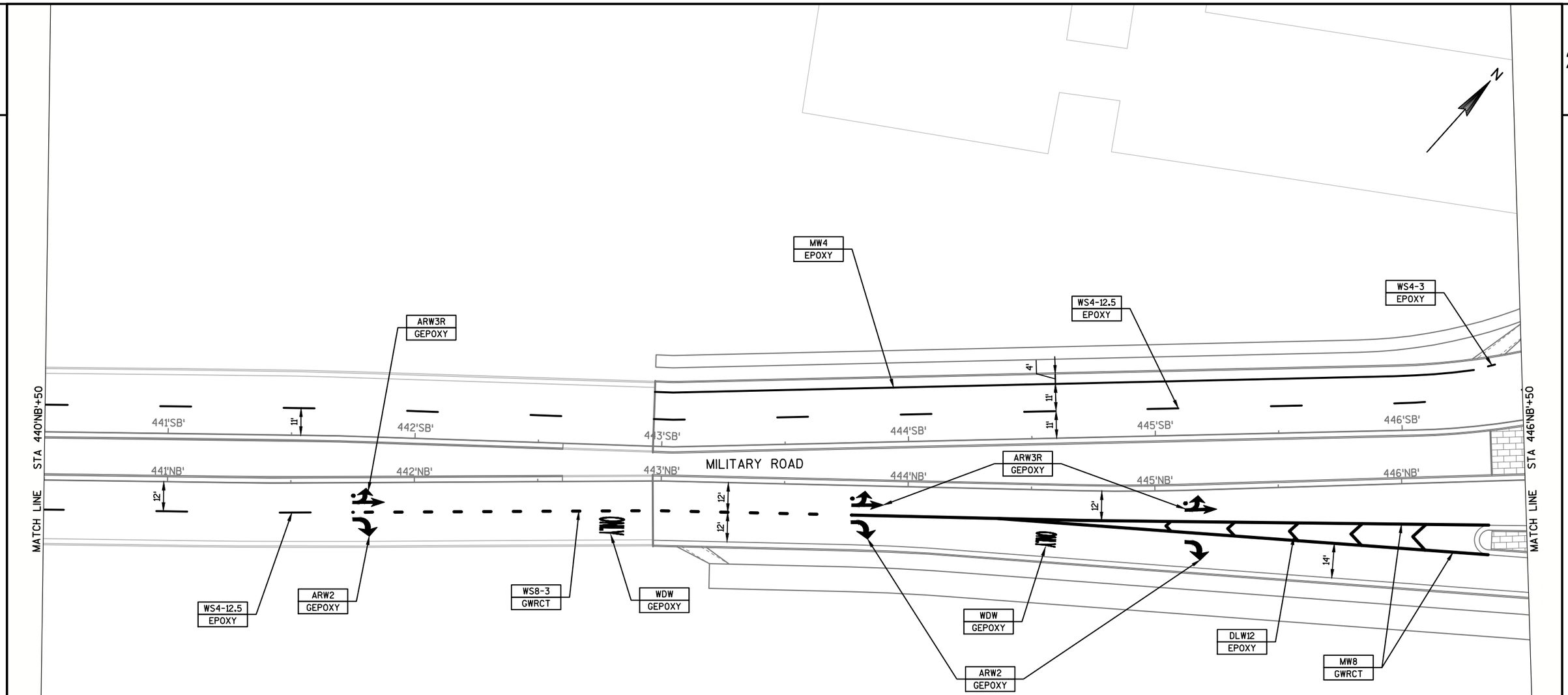
LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: MILITARY ROAD	SHEET 179 E

2

2



LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: MILITARY ROAD	SHEET 180	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-024502-PM.DWG
LAYOUT NAME - 49860022-024502-PM-02-MILITARY

PLOT DATE : 7/29/2016 3:42 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

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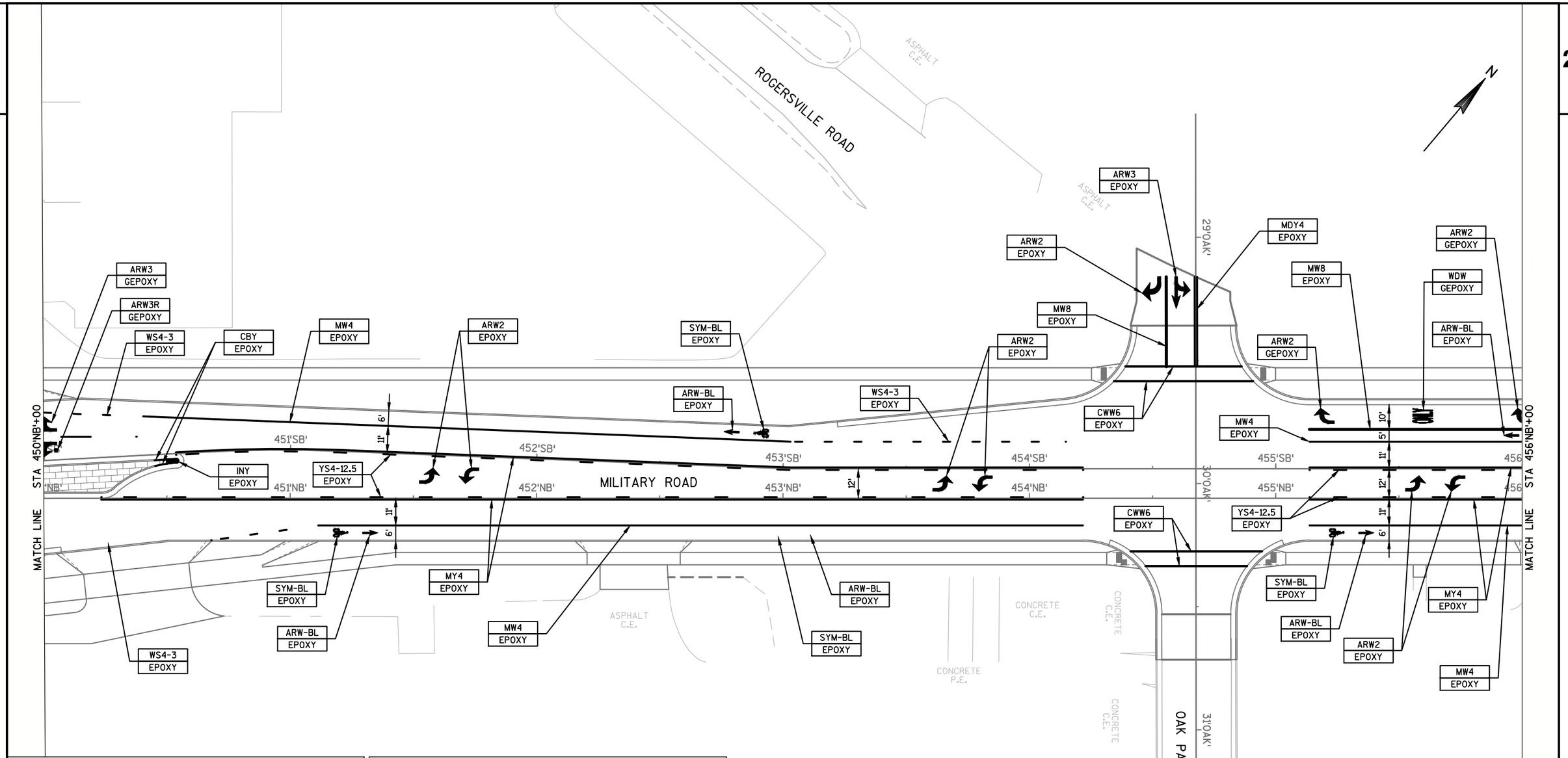


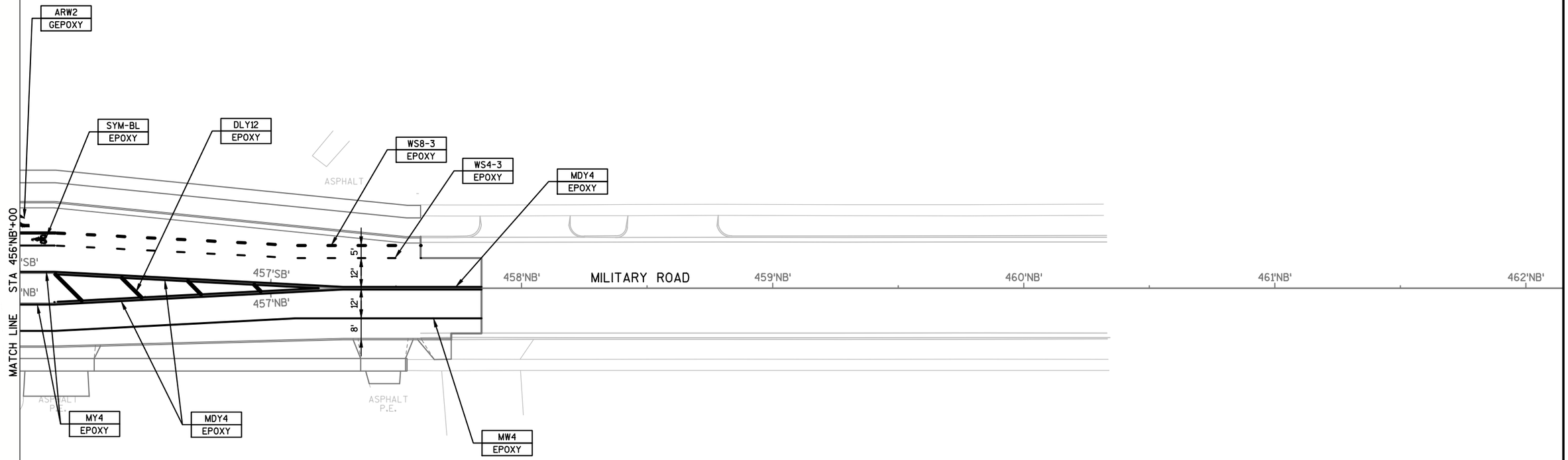
LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: MILITARY ROAD	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-024502-PM.DWG
LAYOUT NAME - 49860022-024502-PM-04-MILITARY
PLOT DATE : 7/29/2016 3:42 PM
PLOT BY : AARON SARAUER
PLOT NAME :
PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

2



LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: MILITARY ROAD	SHEET 182	E

2

N

ASPHALT PARKING LOT

ASPHALT PARKING LOT

MATCH LINE STA 521SUL'+00

WDW
GEPOXY

MW8
EPOXY

ARW2
GEPOXY

16'

12'

12'

16'

MW8
EPOXY

522'SUL'

MDY4
EPOXY

523'SUL'

524'SUL'

525'SUL'

526'SUL'

527'SUL'

18'

18'

SULLIVAN DRIVE

ASPHALT PARKING LOT

ASPHALT C.E.

ASPHALT C.E.

ROGERSVILLE ROAD

LEGEND	
ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW2R	PAVEMENT MARKING ARROWS TYPE 2R (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
ARW-BL	PAVEMENT MARKING ARROWS BIKE LANE (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CCMY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN (YELLOW)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
EPOXY	EPOXY
GEPOXY	GROOVED EPOXY
GWRCT	GROOVED WET REFLECTIVE CONTRAST TAPE
INY	PAVEMENT MARKING ISLAND NOSE (YELLOW)

LEGEND	
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW4	PAVEMENT MARKING 4-INCH (WHITE)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
SYM-BL	PAVEMENT MARKING SYMBOLS BIKE LANE (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE) ("YIELD", "ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS4-12	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12' SEG., 12' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
WS8-1	PAVEMENT MARKING 8-INCH (WHITE SKIP) (1' SEG., 3' GAP)
WS8-2	PAVEMENT MARKING 8-INCH (WHITE SKIP) (2' SEG., 6' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP) (3' SEG., 9' GAP)
WS8-6	PAVEMENT MARKING 8-INCH (WHITE SKIP) (6' SEG., 3' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP) (2' SEG., 2' GAP)
YS4-12.5	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PAVEMENT MARKING PLAN: SULLIVAN DRIVE	SHEET 183	E

N

0 750 1500

1" = 750'

NOTES:

1. REFER TO SDD 15C2 "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR DETAILS:

   - (A) = DETAIL A (MAINLINE CLOSURE WITH POSTED DETOUR)
   - (B) = DETAIL B (MAINLINE CLOSURE WITH POSTED DETOUR)
   - (C) = DETAIL C (MAINLINE CLOSURE NO DETOUR)
   - (D) = DETAIL D (ROAD CLOSURE BARRICADE DETAIL)
   - (E) = DETAIL E (ROAD CLOSURE BARRICADE DETAIL)

2. REFER TO SDD 15C3 "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES" FOR DETAILS:

   - (1) = DETAIL 1 (NO ACCESS TO PROJECT)
   - (2) = DETAIL 2 (PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT)
   - (3) =DETAIL 3 (PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR LOCAL BUSINESS AND RESIDENT ACCESS)
   - (4) =DETAIL 4 (CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

LEGEND

- WORK AREA
- MB = PORTABLE CHANGABLE MESSAGE BOARD (PCMS)

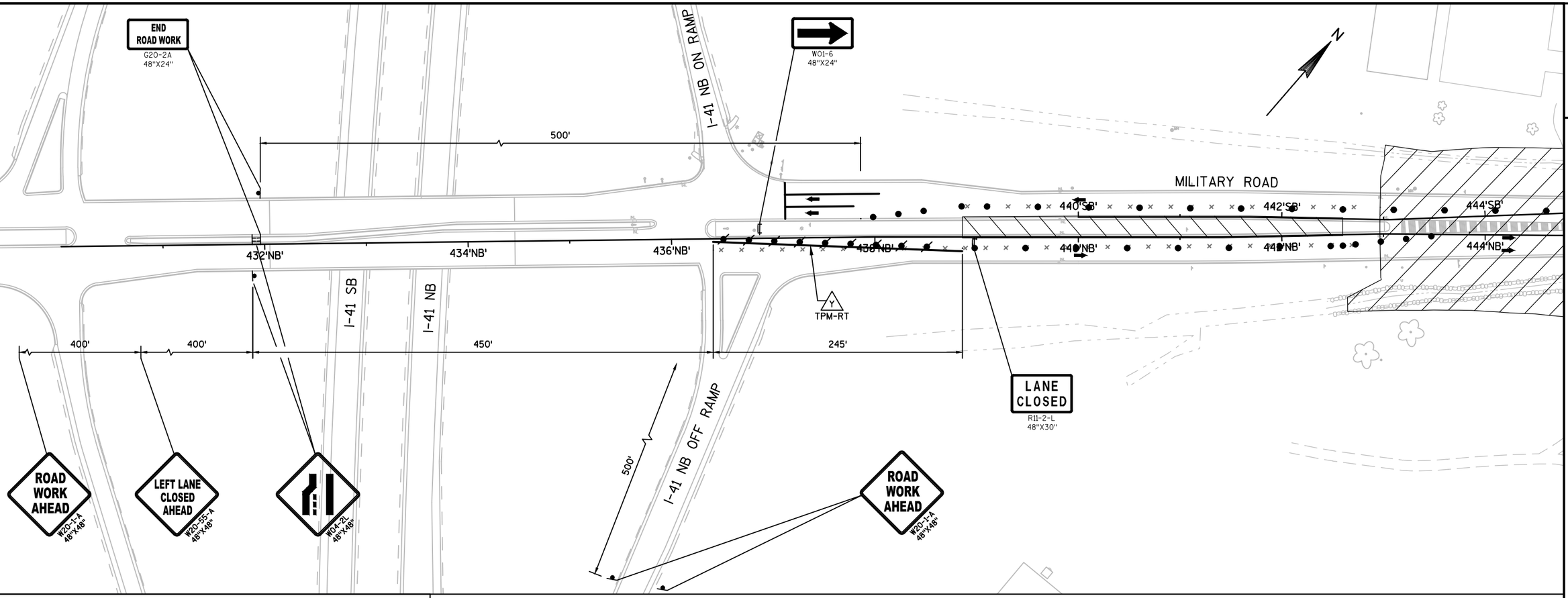
GROVE ST
PLACE AT JOHNSON STREET (STH 23)
SULLIVAN DR
SEYMOUR ST
MILITARY RD
CTH VV
ROGERSVILLE RD
OAK PARK AVE
DIXIE ST
CTH VV
HICKORY ST
MORRIS ST
CTH VV
IH-41
ROLLING MEADOWS DR
MILITARY RD

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TRAFFIC CONTROL OVERVIEW: ADVANCED WARNING SIGNING	SHEET 184	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-025000-TC.DWG
LAYOUT NAME - 49860022-025000-TC-01

PLOT DATE : 7/29/2016 9:29 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:750 FT

WISDOT/CADDS SHEET 42



PAVEMENT MARKING LEGEND

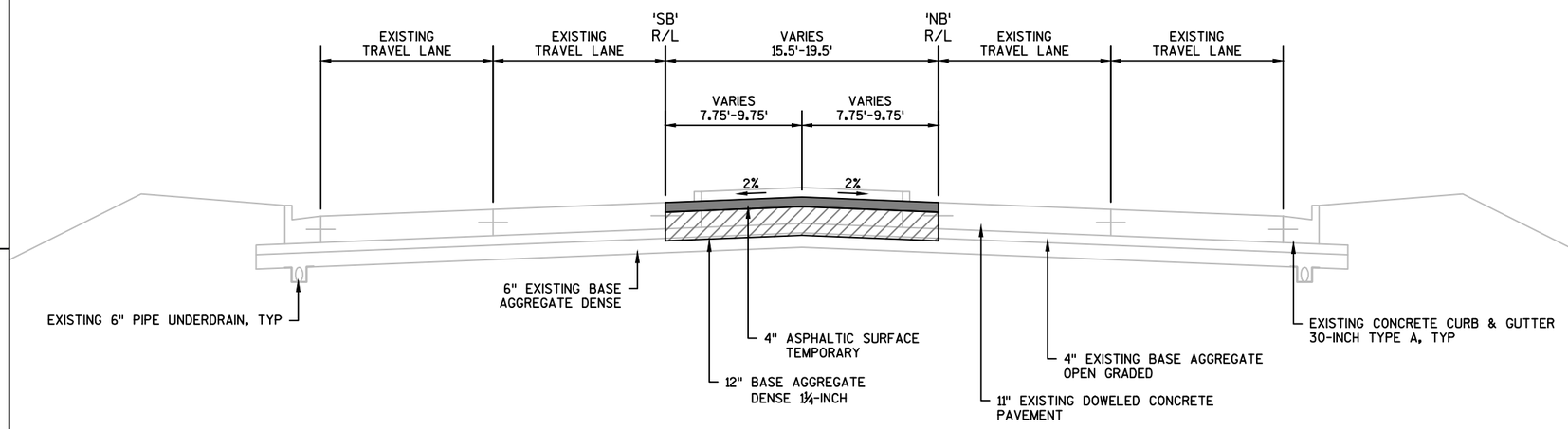
Y — CONTINUOUS YELLOW, 4-INCH

W — CONTINUOUS WHITE, 4-INCH

TPM-RT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- × × × REMOVE PAVEMENT MARKINGS
- WORK AREA

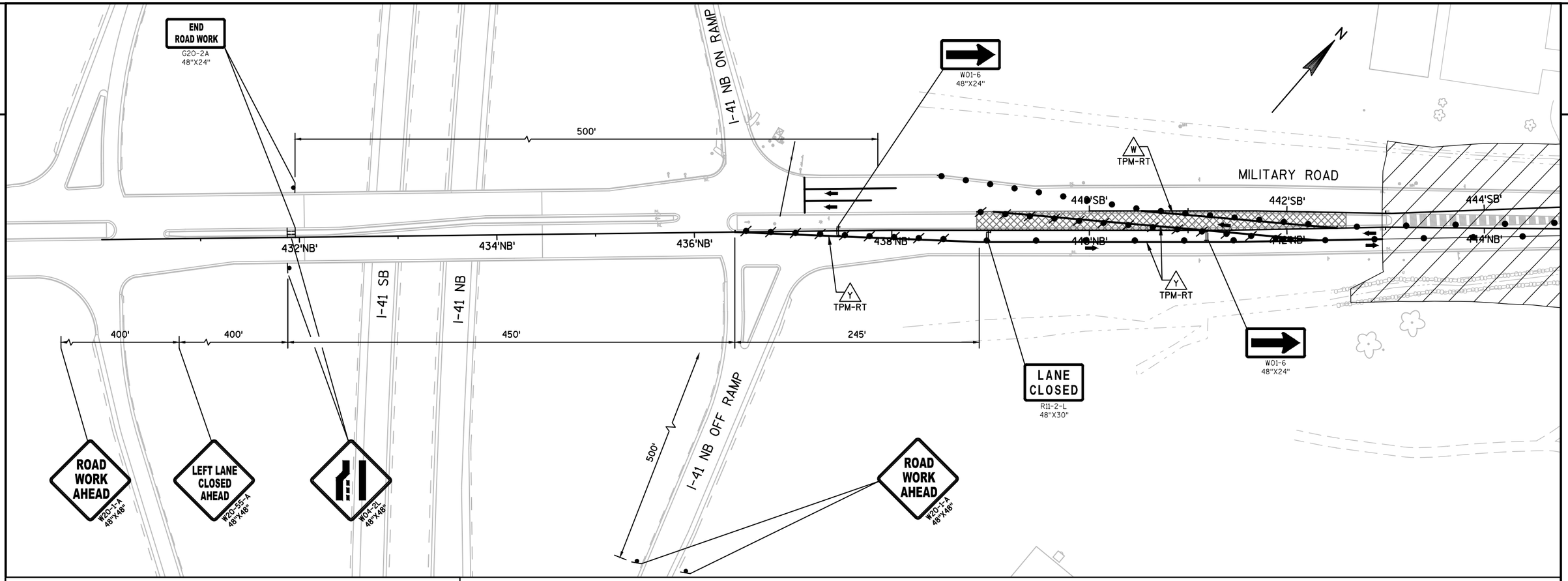


TYPICAL SECTION FOR TEMPORARY CROSSOVER

STA 438'NB'+86 - 442'NB+60

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TRAFFIC CONTROL DETAIL: TEMPORARY CROSSOVER	SHEET 185	E

2



PAVEMENT MARKING LEGEND

Y — CONTINUOUS YELLOW, 4-INCH

W — CONTINUOUS WHITE, 4-INCH

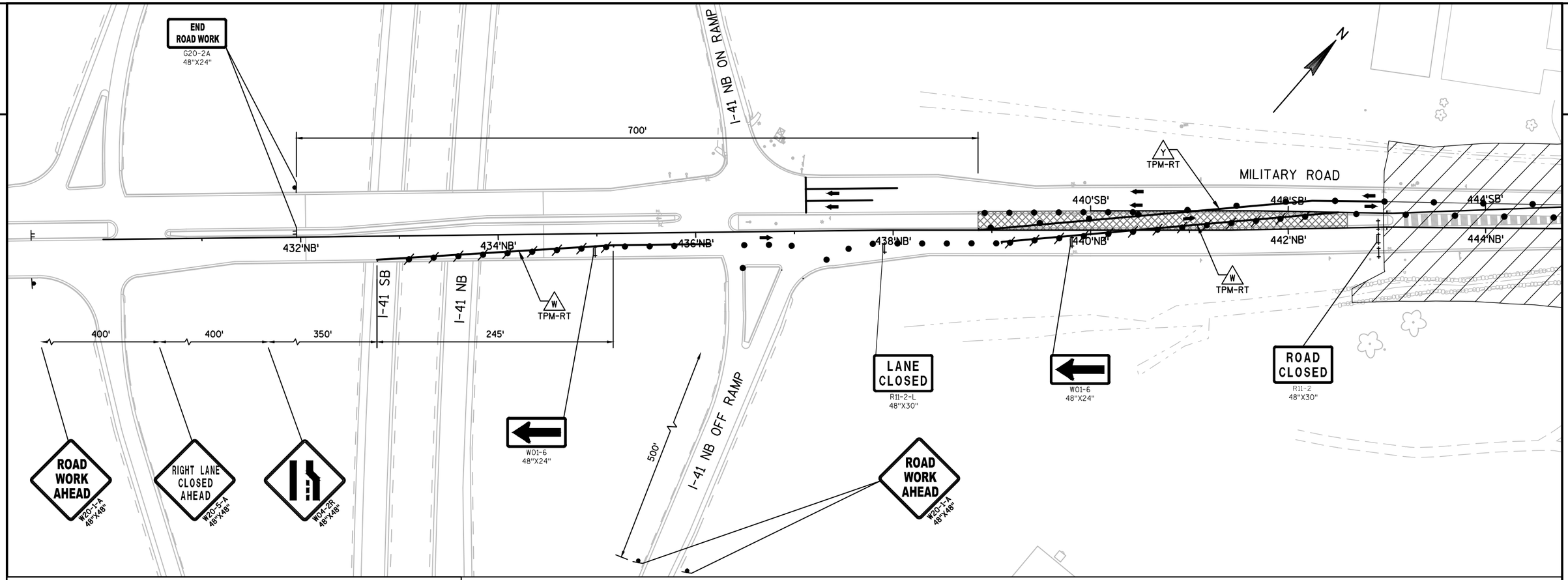
TPM-RT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK AREA
- TEMPORARY ASPHALT

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TRAFFIC CONTROL DETAIL: CROSSOVER ONTO NORTHBOUND LANES	SHEET 186	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-025002-TC.DWG
LAYOUT NAME - 49860022-025002-TC-01
PLOT DATE : 7/29/2016 9:30 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42



PAVEMENT MARKING LEGEND

Y — CONTINUOUS YELLOW, 4-INCH

W — CONTINUOUS WHITE, 4-INCH

TPM-RT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK AREA
- TEMPORARY ASPHALT

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TRAFFIC CONTROL DETAIL: CROSSOVER FROM SOUTHBOUND LANES	SHEET 187	E

WORK BY OTHERS
FOR INFORMATION ONLY

N

MILITARY RD

ROLLING MEADOWS DR

VVV

CTH VV

PIONEER RD

VV

MILITARY RD

HICKORY ST

JOHNSON ST

23

41

INSTALL SOUTH OF
MAIN ST OVERPASS

LEGEND

SIGN LOCATION

PROPOSED DETOUR ROUTE

WORK AREA

GENERAL NOTES - DETOUR

SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" AND "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR GENERAL NOTES AND SIGN SPACING REQUIREMENTS.

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON FIELD CONDITIONS AND THE CONTRACTOR'S METHODS OR SEQUENCE OF OPERATION.

ALL EXISTING SIGN MESSAGES THAT CONFLICT WITH THE DETOUR SHALL BE COVERED OR REMOVED.

MAP SHOWN IS NOT TO SCALE.

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	DETOUR: CTH VV	SHEET 188	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027001-DT.DWG
LAYOUT NAME - 49860022-027001-DT-01
PLOT DATE : 8/1/2016 11:39 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:1100 FT
WISDOT/CADDS SHEET 42

2

1

MILITARY RD TRAFFIC
N OF HWY 41
USE HICKORY ST EXIT
138"X48"

2

M3-1 36"X18"
N ORTH
COUNTY VV
M1-5A 36"X36"
DETOUR AHEAD
W20-2-A 48"X48"

N MILITARY RD 60"X12"
DETOUR AHEAD
W20-2-A 48"X48"

3

M04-8 36"X18" M3-1 36"X18"
DETOUR N ORTH COUNTY VV
M1-5A 36"X36"
M06-1 30"X30"

DETOUR N ORTH MILITARY ROAD
M04-8 36"X18" M3-1 36"X18"
36"X36"
M05-2R 30"X30"

4

M04-8 36"X18" M3-1 36"X18"
DETOUR N ORTH COUNTY VV
M1-5A 36"X36"
M06-1 30"X30"

DETOUR N ORTH MILITARY ROAD
M04-8 36"X18" M3-1 36"X18"
36"X36"
M06-2 30"X30"

S OUTH MILITARY ROAD
M3-3 36"X18"
36"X36"
M06-1 30"X30"

5

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"
M05-1R 21"X21"

6

N ORTH COUNTY VV
M3-1 24"X12"
M1-5A 24"X24"
DETOUR AHEAD
W20-2-A 48"X48"

7

M04-8 24"X12" M3-1 24"X12"
DETOUR N ORTH COUNTY VV
M1-5A 24"X24"
M05-1L 21"X21"

DETOUR S OUTH COUNTY VV
M04-8 24"X12" M3-3 24"X12"
M1-5A 24"X24"
M06-1 21"X21"

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"
M06-1 21"X21"

8

M04-8 24"X12" M3-1 24"X12"
DETOUR N ORTH COUNTY VV
M1-5A 24"X24"
M06-1 21"X21"

DETOUR S OUTH COUNTY VV
M04-8 24"X12" M3-3 24"X12"
M1-5A 24"X24"
M06-1 21"X21"

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"
M06-1 21"X21"

9

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"
M06-1 21"X21"

10

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH COUNTY VV
M1-5A 24"X24"
M05-1R 21"X21"

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"
M06-1 21"X21"

11

M04-8A 24"X18"
END DETOUR
M3-3 24"X12"
S OUTH COUNTY VV
M1-5A 24"X24"

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"
M06-1 21"X21"

12

N ORTH COUNTY VV
M3-1 24"X12"
M1-5A 24"X24"
DETOUR AHEAD
W20-2-A 48"X48"

13

DETOUR N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"
M05-1L 21"X21"

14

DETOUR N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"
M05-1L 21"X21"

15

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"
M06-2 21"X21"

16

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"

17

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"
M05-1R 21"X21"

18

END DETOUR
M04-8A 24"X18"
N ORTH
M3-1 24"X12"
MILITARY ROAD
24"X24"

19

48"X12" S MILITARY RD
DETOUR AHEAD
W20-2-A 48"X48"

N ORTH COUNTY VV
M3-1 24"X12"
M1-5A 24"X24"
DETOUR AHEAD
W20-2-A 48"X48"

S OUTH COUNTY VV
M3-3 24"X12"
M1-5A 24"X24"
DETOUR AHEAD
W20-2-A 48"X48"

20

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"
M05-1L 21"X21"

DETOUR N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"
M05-1L 21"X21"

DETOUR S OUTH COUNTY VV
M04-8 24"X12" M3-3 24"X12"
M1-5A 24"X24"
M05-1L 21"X21"

21

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"
M06-1 21"X21"

DETOUR S OUTH N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"
M06-1 21"X21"

DETOUR S OUTH COUNTY VV
M04-8 24"X12" M3-3 24"X12"
M1-5A 24"X24"
M06-1 21"X21"

22

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"

DETOUR S OUTH N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"

DETOUR S OUTH COUNTY VV
M04-8 24"X12" M3-3 24"X12"
M1-5A 24"X24"

23

N ORTH COUNTY VV
M3-1 24"X12"
M1-5A 24"X24"
DETOUR AHEAD
W20-2-A 48"X48"

24

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"
M06-1 21"X21"

DETOUR S OUTH N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"
M06-1 21"X21"

DETOUR S OUTH COUNTY VV
M04-8 24"X12" M3-3 24"X12"
M1-5A 24"X24"
M05-1L 21"X21"

25

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"
M06-1 21"X21"

DETOUR S OUTH N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"
M06-1 21"X21"

END DETOUR
M04-8A 24"X18"
S OUTH COUNTY VV
M3-3 24"X12"
M1-5A 24"X24"

26

COVER
EXISTING SIGN

VV NORTH
Pioneer Rd

27

MODIFY
EXISTING SIGN

TO 41 VV NORTH Hickory St

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"

DETOUR N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"

28

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"

DETOUR N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"

29

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"
M05-1R 21"X21"

DETOUR N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"
M05-1R 21"X21"

30

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"
M06-1 21"X21"

DETOUR N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"
M06-1 21"X21"

31

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH COUNTY VV
M1-5A 24"X24"
M06-1 21"X21"

DETOUR N ORTH MILITARY ROAD
M04-8 24"X12" M3-1 24"X12"
24"X24"
M06-1 21"X21"

32

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
M1-5A 24"X24"
M05-1L 21"X21"

DETOUR N ORTH COUNTY VV
M04-8 24"X12" M3-1 24"X12"
M1-5A 24"X24"
M05-1L 21"X21"

33

M04-8 36"X18" M3-3 36"X18"
DETOUR S OUTH COUNTY VV
M1-5A 36"X36"
M06-2 30"X30"

DETOUR N ORTH MILITARY ROAD
M04-8 36"X18" M3-1 36"X18"
36"X36"
M06-2 30"X30"

34

M04-8 36"X18" M3-1 36"X18"
DETOUR N ORTH COUNTY VV
M1-5A 36"X36"

DETOUR S OUTH MILITARY ROAD
M04-8 36"X18" M3-3 36"X18"
36"X36"

35

M04-8 36"X18" M3-3 36"X18"
DETOUR S OUTH COUNTY VV
M1-5A 36"X36"
M05-2R 30"X30"

DETOUR N ORTH MILITARY ROAD
M04-8 36"X18" M3-1 36"X18"
36"X36"
M05-2R 30"X30"

36

M04-8 36"X18" M3-1 36"X18"
DETOUR N ORTH COUNTY VV
M1-5A 36"X36"
M06-1 30"X30"

DETOUR S OUTH MILITARY ROAD
M04-8 36"X18" M3-3 36"X18"
36"X36"
M05-2R 30"X30"

37

M04-8 36"X18" M3-3 36"X18"
DETOUR S OUTH COUNTY VV
M1-5A 36"X36"

DETOUR N ORTH MILITARY ROAD
M04-8 36"X18" M3-1 36"X18"
36"X36"

38

M04-8 36"X18" M3-1 36"X18"
DETOUR N ORTH COUNTY VV
M1-5A 36"X36"
M06-1 30"X30"

DETOUR S OUTH MILITARY ROAD
M04-8 36"X18" M3-3 36"X18"
36"X36"
M06-2 30"X30"

39

M04-8 24"X12" M3-3 24"X12"
DETOUR S OUTH MILITARY ROAD
24"X24"
M05-1L 21"X21"

40

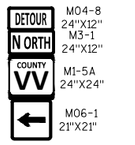
END DETOUR
M04-8A 24"X18"
S OUTH
M3-3 24"X12"
MILITARY ROAD
24"X24"

WORK BY OTHERS
FOR INFORMATION ONLY

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	DETOUR: CTH VV	SHEET 189	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027001-DT.DWG
LAYOUT NAME - 49860022-027001-DT-02
PLOT DATE : 8/1/2016 11:39 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42

41



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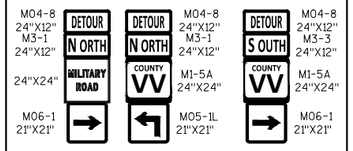

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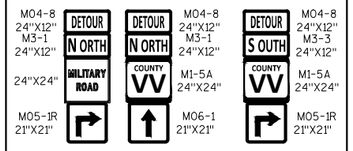

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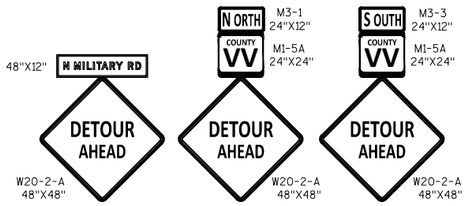

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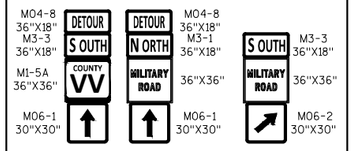
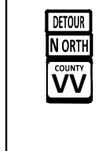


46



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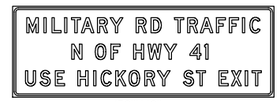
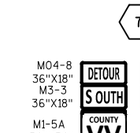


48

49



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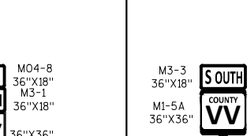


51

52

53

IN MEDIAN

54

MODIFY EXISTING SIGN ON LIGHT POLE IN MEDIAN

FROM TO

55

IN MEDIAN

56

MODIFY EXISTING SIGN ON LIGHT POLE IN MEDIAN

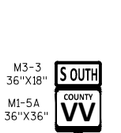
FROM TO

57

58

59

60



61

62

63

64

65

66

67

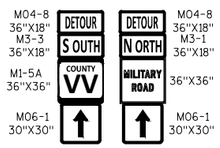
68

69

IN MEDIAN

70

71



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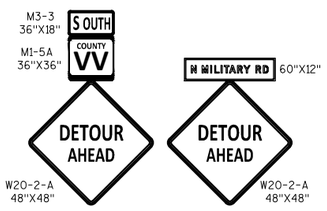


WORK BY OTHERS
FOR INFORMATION ONLY

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	DETOUR: CTH VV	SHEET 190	E

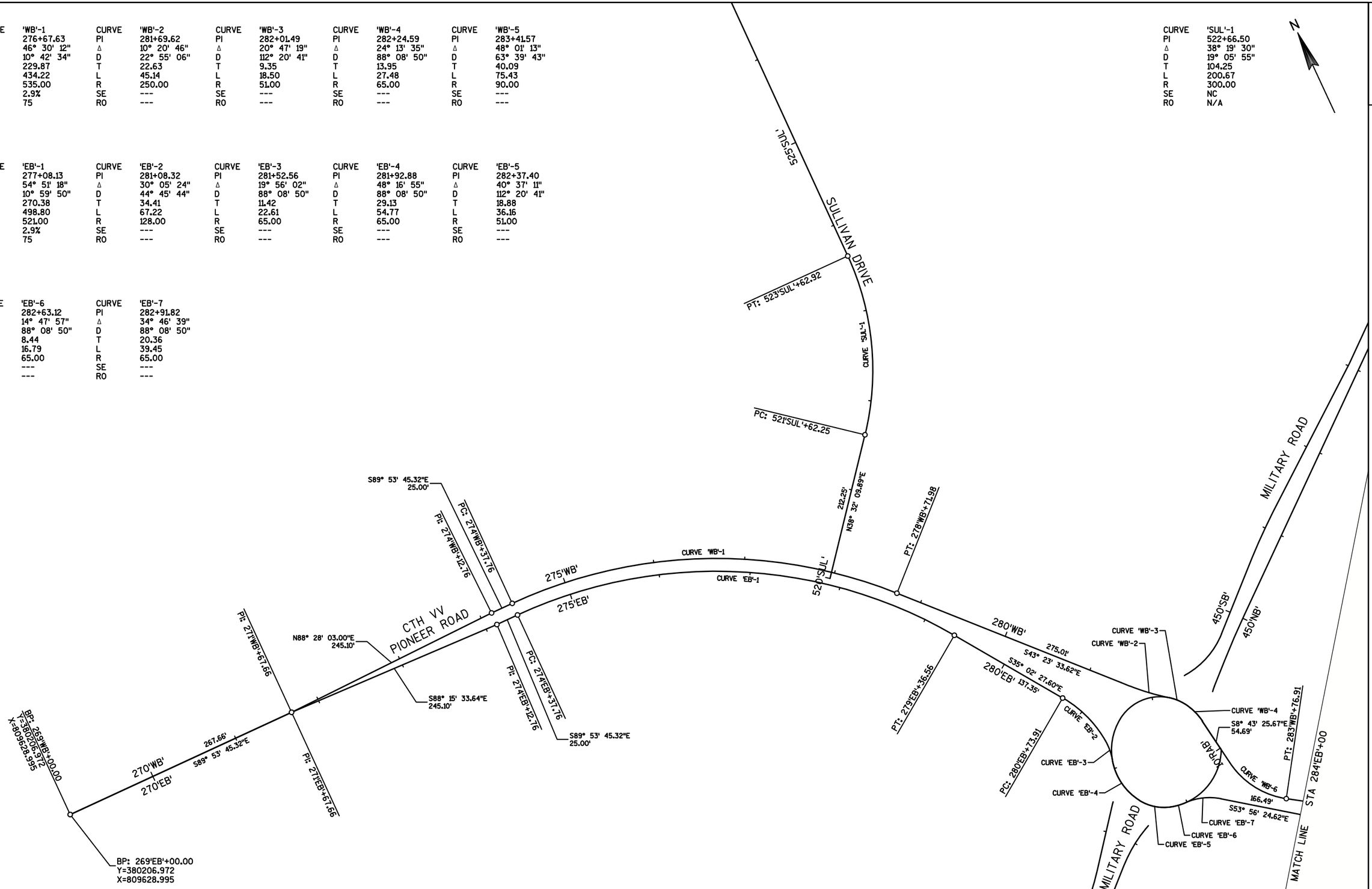
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027001-DT.DWG
LAYOUT NAME - 49860022-027001-DT-03
PLOT DATE : 8/1/2016 11:39 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42

CURVE	'WB'-1	CURVE	'WB'-2	CURVE	'WB'-3	CURVE	'WB'-4	CURVE	'WB'-5
PI	276+67.63	PI	281+69.62	PI	282+01.49	PI	282+24.59	PI	283+41.57
Δ	46° 30' 12"	Δ	10° 20' 46"	Δ	20° 47' 19"	Δ	24° 13' 35"	Δ	48° 01' 13"
D	10° 42' 34"	D	22° 55' 06"	D	112° 20' 41"	D	88° 08' 50"	D	63° 39' 43"
T	229.87	T	22.63	T	9.35	T	13.95	T	40.09
L	434.22	L	45.14	L	18.50	L	27.48	L	75.43
R	535.00	R	250.00	R	51.00	R	65.00	R	90.00
SE	2.9%	SE	---	SE	---	SE	---	SE	---
R0	75	R0	---	R0	---	R0	---	R0	---

CURVE	'EB'-1	CURVE	'EB'-2	CURVE	'EB'-3	CURVE	'EB'-4	CURVE	'EB'-5
PI	277+08.13	PI	281+08.32	PI	281+52.56	PI	281+92.88	PI	282+37.40
Δ	54° 51' 18"	Δ	30° 05' 24"	Δ	19° 56' 02"	Δ	48° 16' 55"	Δ	40° 37' 11"
D	10° 59' 50"	D	44° 45' 44"	D	88° 08' 50"	D	88° 08' 50"	D	112° 20' 41"
T	270.38	T	34.41	T	11.42	T	29.13	T	18.88
L	498.80	L	67.22	L	22.61	L	54.77	L	36.16
R	521.00	R	128.00	R	65.00	R	65.00	R	51.00
SE	2.9%	SE	---	SE	---	SE	---	SE	---
R0	75	R0	---	R0	---	R0	---	R0	---

CURVE	'EB'-6	CURVE	'EB'-7
PI	282+63.12	PI	282+91.82
Δ	14° 47' 57"	Δ	34° 46' 39"
D	88° 08' 50"	D	88° 08' 50"
T	8.44	T	20.36
L	16.79	L	39.45
R	65.00	R	65.00
SE	---	SE	---
R0	---	R0	---

CURVE	'SUL'-1
PI	522+66.50
Δ	38° 19' 30"
D	19° 05' 55"
T	104.25
L	200.67
R	300.00
SE	NC
R0	N/A

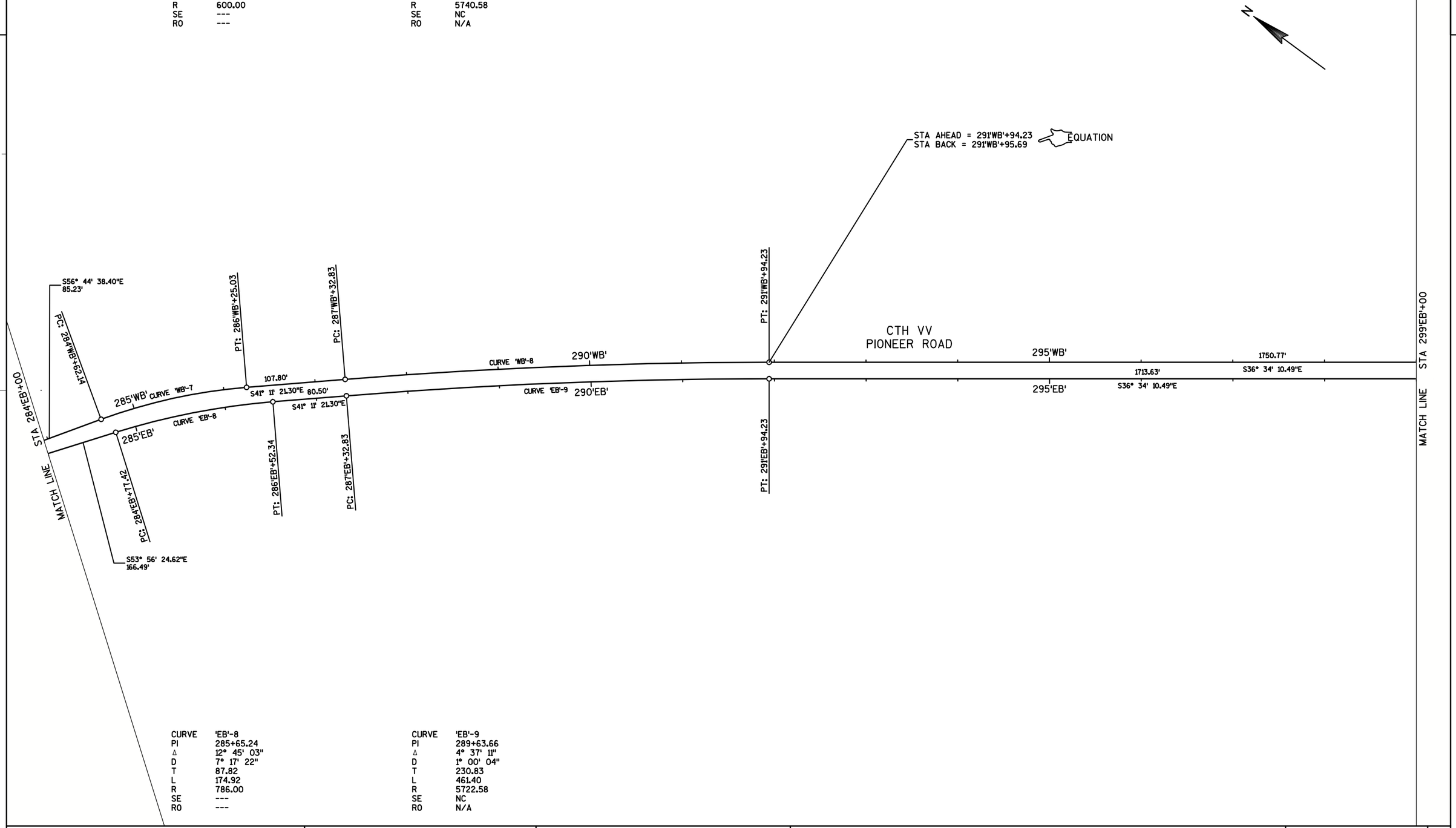


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027201-AD.DWG PLOT DATE : 7/29/2016 9:34 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

CURVE	'WB'-7
PI	285+44.09
Δ	15° 33' 17"
D	9° 32' 57"
T	81.95
L	162.89
R	600.00
SE	---
RO	---

CURVE	'WB'-8
PI	289+64.38
Δ	4° 37' 11"
D	0° 59' 53"
T	231.55
L	462.85
R	5740.58
SE	NC
RO	N/A



CURVE	'EB'-8
PI	285+65.24
Δ	12° 45' 03"
D	7° 17' 22"
T	87.82
L	174.92
R	786.00
SE	---
RO	---

CURVE	'EB'-9
PI	289+63.66
Δ	4° 37' 11"
D	1° 00' 04"
T	230.83
L	461.40
R	5722.58
SE	NC
RO	N/A

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027201-AD.DWG PLOT DATE : 7/29/2016 9:34 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

2

CURVE	'MM'-1
PI	11+69.59
Δ	44° 01' 42"
D	44° 04' 25"
T	52.56
L	99.90
R	130.00
SE	---
RO	---

CURVE	'WB'-9	CURVE	'WB'-10	CURVE	'WB'-11
PI	310+20.39	PI	311+55.87	PI	313+18.71
Δ	12° 17' 33"	Δ	7° 56' 22"	Δ	28° 42' 13"
D	8° 11' 06"	D	6° 33' 07"	D	14° 19' 26"
T	75.38	T	60.68	T	102.34
L	150.18	L	121.17	L	200.39
R	700.00	R	874.47	R	400.00
SE	NC	SE	NC	SE	NC
RO	N/A	RO	N/A	RO	N/A

EP: 14'MM'+05.84
Y=378386.318
X=812278.393

N 03° 33.50"W
189.92'

PT: 12'MM'+16.92

CURVE 'MM'-1

PC: 11'MM'+17.03

EP: 314'WB'+99.05
Y=377406.734
X=812913.619

PT: 314'WB'+16.75

82.31'
S85° 30' 18.11"E

PCC: 312'WB'+16.36

CURVE 'WB'-11

PC: 309'WB'+45.01

PCC: 310'WB'+95.19

CURVE 'WB'-10

CURVE 'WB'-9

EP: 312'EB'+43.36
Y=377453.852
X=812654.591

CURVE 'EB'-10

STA 299'EB'+00

MATCH LINE

300'WB'

1750.77'
S36° 34' 10.49"E

1713.63'
S36° 34' 10.49"E

305'WB'

CTH VV
PIONEER ROAD

310'WB'

300'EB'

305'EB'

310'EB'

PC: 309'EB'+07.86

517.03'
N42° 58' 08.10"E

6'MM'

BP: 6'MM'+00.00
Y=377728.099
X=811894.625

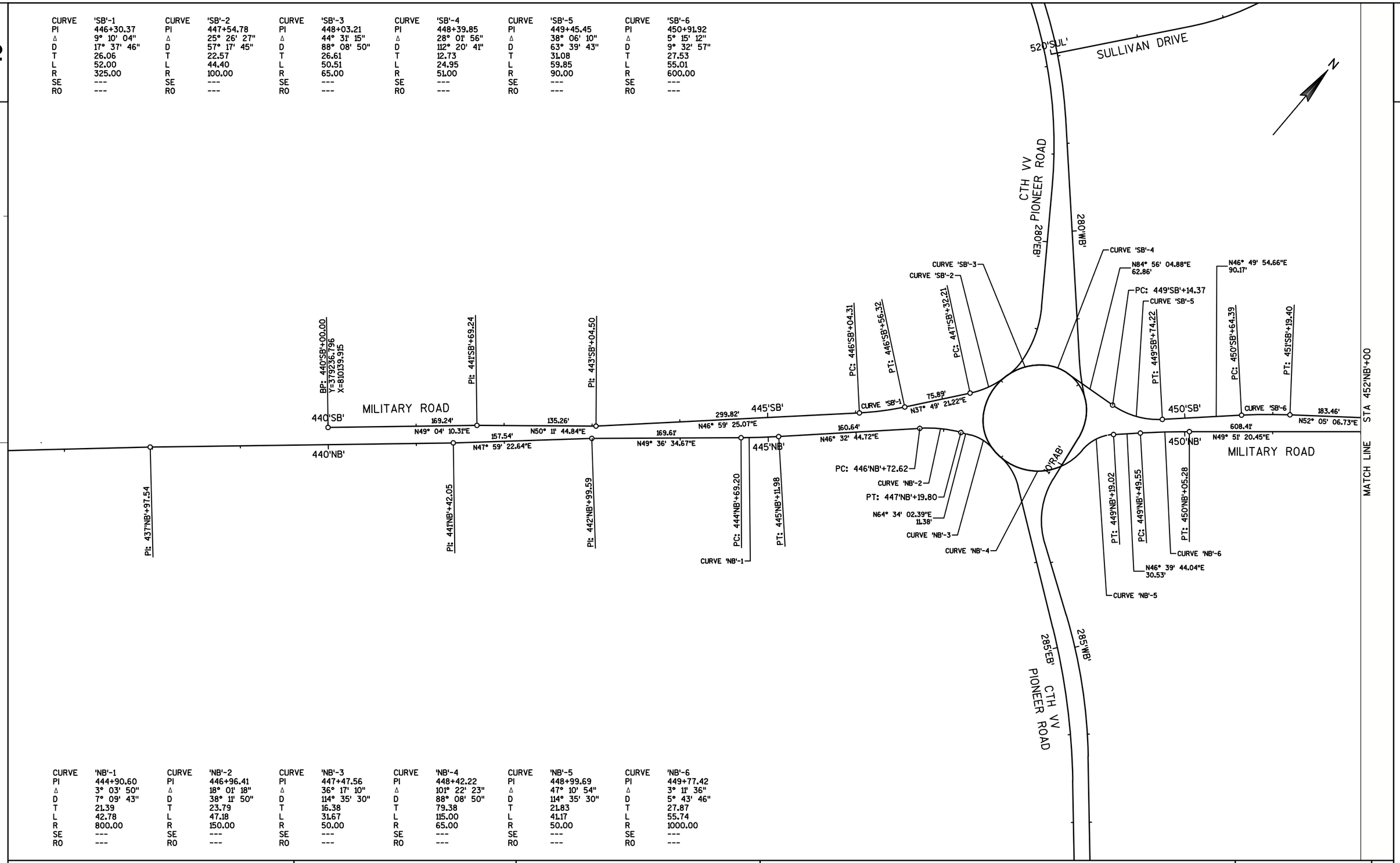
CURVE	'EB'-10
PI	310+77.64
Δ	21° 38' 09"
D	6° 26' 56"
T	169.77
L	335.50
R	888.47
SE	NC
RO	N/A

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027201-AD.DWG PLOT DATE : 7/29/2016 9:34 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : _____ PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

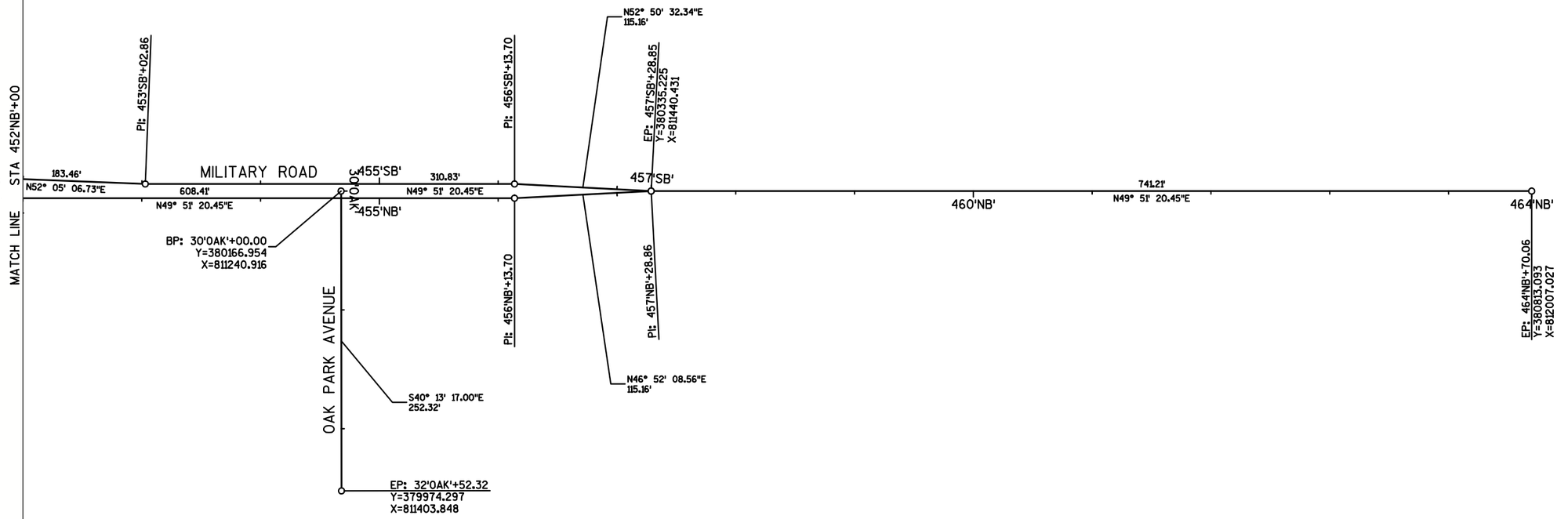
CURVE	'SB'-1	CURVE	'SB'-2	CURVE	'SB'-3	CURVE	'SB'-4	CURVE	'SB'-5	CURVE	'SB'-6
PI	446+30.37	PI	447+54.78	PI	448+03.21	PI	448+39.85	PI	449+45.45	PI	450+91.92
Δ	9° 10' 04"	Δ	25° 26' 27"	Δ	44° 31' 15"	Δ	28° 01' 56"	Δ	38° 06' 10"	Δ	5° 15' 12"
D	17° 37' 46"	D	57° 17' 45"	D	88° 08' 50"	D	112° 20' 41"	D	63° 39' 43"	D	9° 32' 57"
T	26.06	T	22.57	T	26.61	T	12.73	T	31.08	T	27.53
L	52.00	L	44.40	L	50.51	L	24.95	L	59.85	L	55.01
R	325.00	R	100.00	R	65.00	R	51.00	R	90.00	R	600.00
SE	---	SE	---	SE	---	SE	---	SE	---	SE	---
RO	---	RO	---	RO	---	RO	---	RO	---	RO	---



CURVE	'NB'-1	CURVE	'NB'-2	CURVE	'NB'-3	CURVE	'NB'-4	CURVE	'NB'-5	CURVE	'NB'-6
PI	444+90.60	PI	446+96.41	PI	447+47.56	PI	448+42.22	PI	448+99.69	PI	449+77.42
Δ	3° 03' 50"	Δ	18° 01' 18"	Δ	36° 17' 10"	Δ	101° 22' 23"	Δ	47° 10' 54"	Δ	3° 11' 36"
D	7° 09' 43"	D	38° 11' 50"	D	114° 35' 30"	D	88° 08' 50"	D	114° 35' 30"	D	5° 43' 46"
T	21.39	T	23.79	T	16.38	T	79.38	T	21.83	T	27.87
L	42.78	L	47.18	L	31.67	L	115.00	L	41.17	L	55.74
R	800.00	R	150.00	R	50.00	R	65.00	R	50.00	R	1000.00
SE	---	SE	---	SE	---	SE	---	SE	---	SE	---
RO	---	RO	---	RO	---	RO	---	RO	---	RO	---

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: MILITARY ROAD	SHEET 194	E

2



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: MILITARY ROAD	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027202-AD.DWG PLOT DATE : 7/29/2016 9:35 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

CURVE	'RAB'-1
PI	10+49.32
Δ	24° 14' 11"
D	88° 08' 50"
T	13.96
L	27.50
R	65.00
SE	---
RO	---

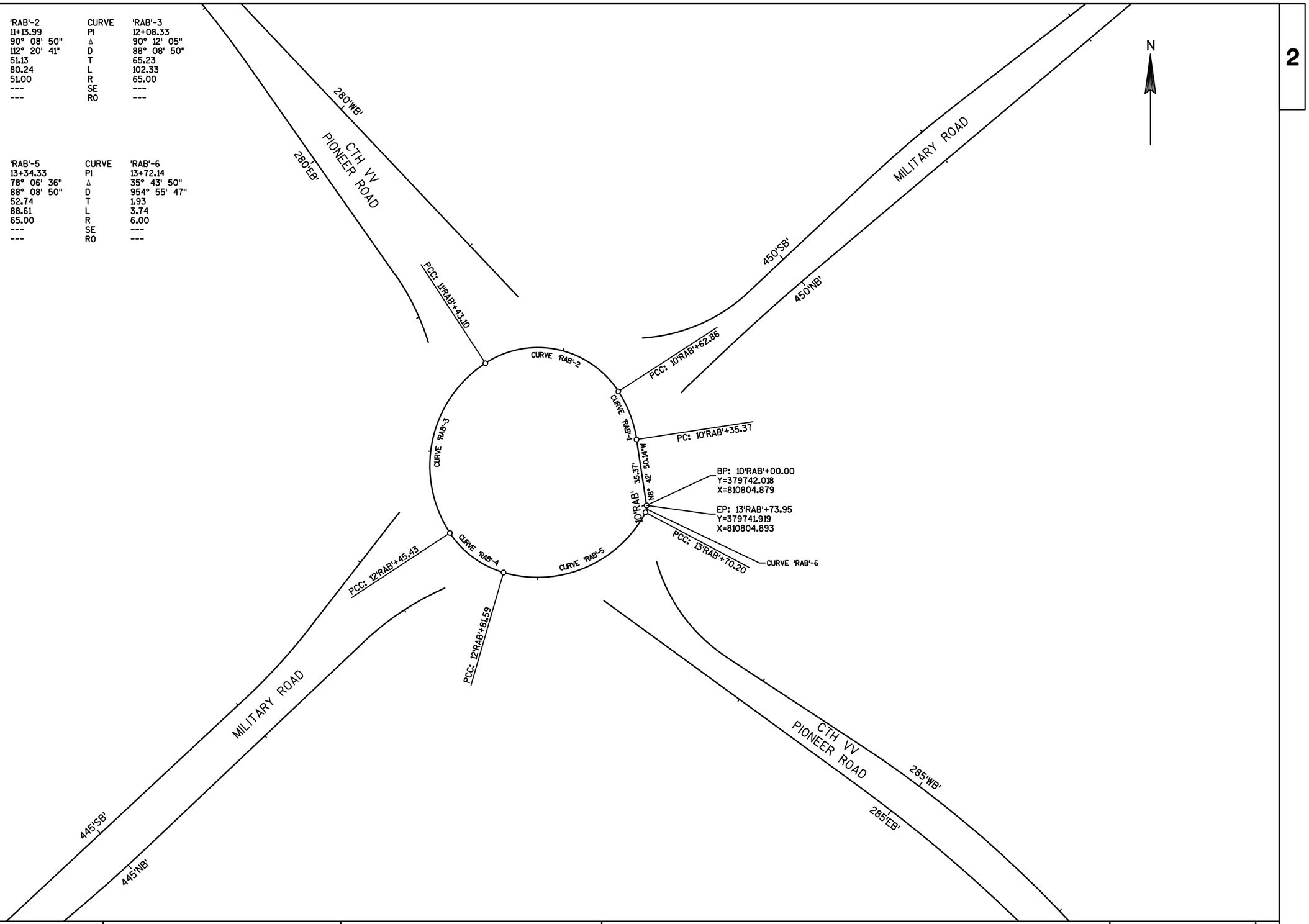
CURVE	'RAB'-2
PI	11+13.99
Δ	90° 08' 50"
D	112° 20' 41"
T	51.13
L	80.24
R	51.00
SE	---
RO	---

CURVE	'RAB'-3
PI	12+08.33
Δ	90° 12' 05"
D	88° 08' 50"
T	65.23
L	102.33
R	65.00
SE	---
RO	---

CURVE	'RAB'-4
PI	12+64.31
Δ	40° 37' 11"
D	112° 20' 41"
T	18.88
L	36.16
R	51.00
SE	---
RO	---

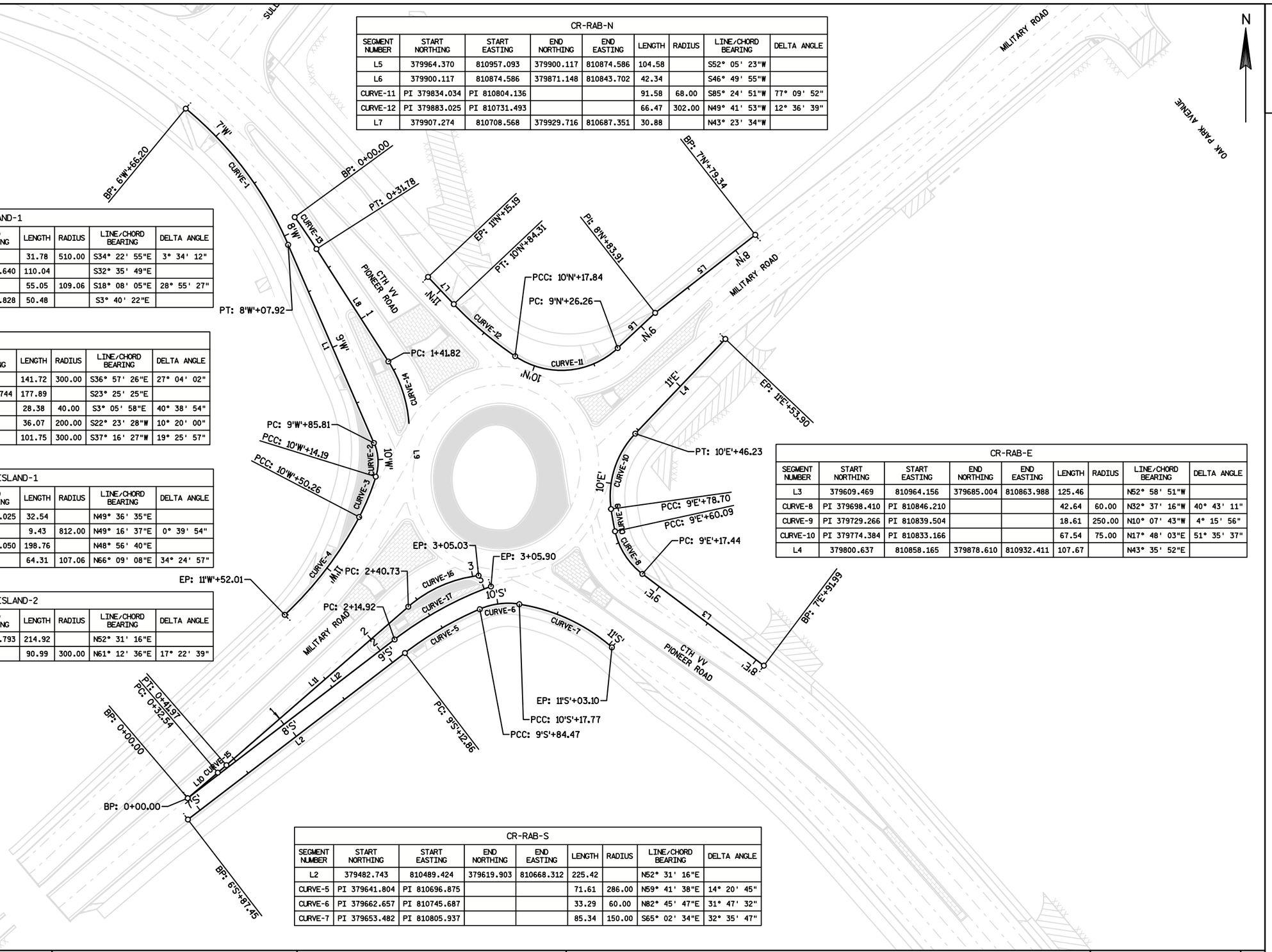
CURVE	'RAB'-5
PI	13+34.33
Δ	78° 06' 36"
D	88° 08' 50"
T	52.74
L	88.61
R	65.00
SE	---
RO	---

CURVE	'RAB'-6
PI	13+72.14
Δ	35° 43' 50"
D	954° 55' 47"
T	1.93
L	3.74
R	6.00
SE	---
RO	---



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: ROUNDABOUT	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027203-AD.DWG PLOT DATE : 7/29/2016 9:35 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : 1:50_XREF
WISDOT/CADDS SHEET 42



CR-RAB-N

SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L5	379964.370	810957.093	379900.117	810874.586	104.58		S52° 05' 23"W	
L6	379900.117	810874.586	379871.148	810843.702	42.34		S46° 49' 55"W	
CURVE-11	PI 379834.034	PI 810804.136			91.58	68.00	S85° 24' 51"W	77° 09' 52"
CURVE-12	PI 379883.025	PI 810731.493			66.47	302.00	N49° 41' 53"W	12° 36' 39"
L7	379907.274	810708.568	379929.716	810687.351	30.88		N43° 23' 34"W	

CR-EB-RT-ISLAND-1

SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
CURVE-13	PI 379966.137	PI 810586.795			31.78	510.00	S34° 22' 55"E	3° 34' 12"
L8	379952.746	810595.358	379860.038	810654.640	110.04		S32° 35' 49"E	
CURVE-14	PI 379836.342	PI 810669.792			55.05	109.06	S18° 08' 05"E	28° 55' 27"
L9	379808.273	810671.594	379757.892	810674.828	50.48		S3° 40' 22"E	

CR-RAB-W

SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
CURVE-1	PI 380022.447	PI 810543.322			141.72	300.00	S36° 57' 26"E	27° 04' 02"
L1	379956.188	810572.027	379792.955	810642.744	177.89		S23° 25' 25"E	
CURVE-2	PI 379779.361	PI 810648.633			28.38	40.00	S3° 05' 58"E	40° 38' 54"
CURVE-3	PI 379747.937	PI 810638.891			36.07	200.00	S22° 23' 28"W	10° 20' 00"
CURVE-4	PI 379686.365	PI 810606.760			101.75	300.00	S37° 16' 27"W	19° 25' 57"

CR-MILITARY-RT-ISLAND-1

SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L10	379500.244	810489.240	379521.330	810514.025	32.54		N49° 36' 35"E	
CURVE-15	PI 379524.384	PI 810517.615			9.43	812.00	N49° 16' 37"E	0° 39' 54"
L11	379527.479	810521.169	379658.024	810671.050	198.76		N48° 56' 40"E	
CURVE-16	PI 379679.801	PI 810696.052			64.31	107.06	N66° 09' 08"E	34° 24' 57"

CR-MILITARY-RT-ISLAND-2

SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L12	379500.244	810489.240	379631.013	810659.793	214.92		N52° 31' 16"E	
CURVE-17	PI 379658.909	PI 810696.176			90.99	300.00	N61° 12' 36"E	17° 22' 39"

CR-RAB-E

SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L3	379609.469	810964.156	379685.004	810863.988	125.46		N52° 58' 51"W	
CURVE-8	PI 379698.410	PI 810846.210			42.64	60.00	N32° 37' 16"W	40° 43' 11"
CURVE-9	PI 379729.266	PI 810839.504			18.61	250.00	N10° 07' 43"W	4° 15' 56"
CURVE-10	PI 379774.384	PI 810833.166			67.54	75.00	N17° 48' 03"E	51° 35' 37"
L4	379800.637	810858.165	379878.610	810932.411	107.67		N43° 35' 52"E	

CR-RAB-S

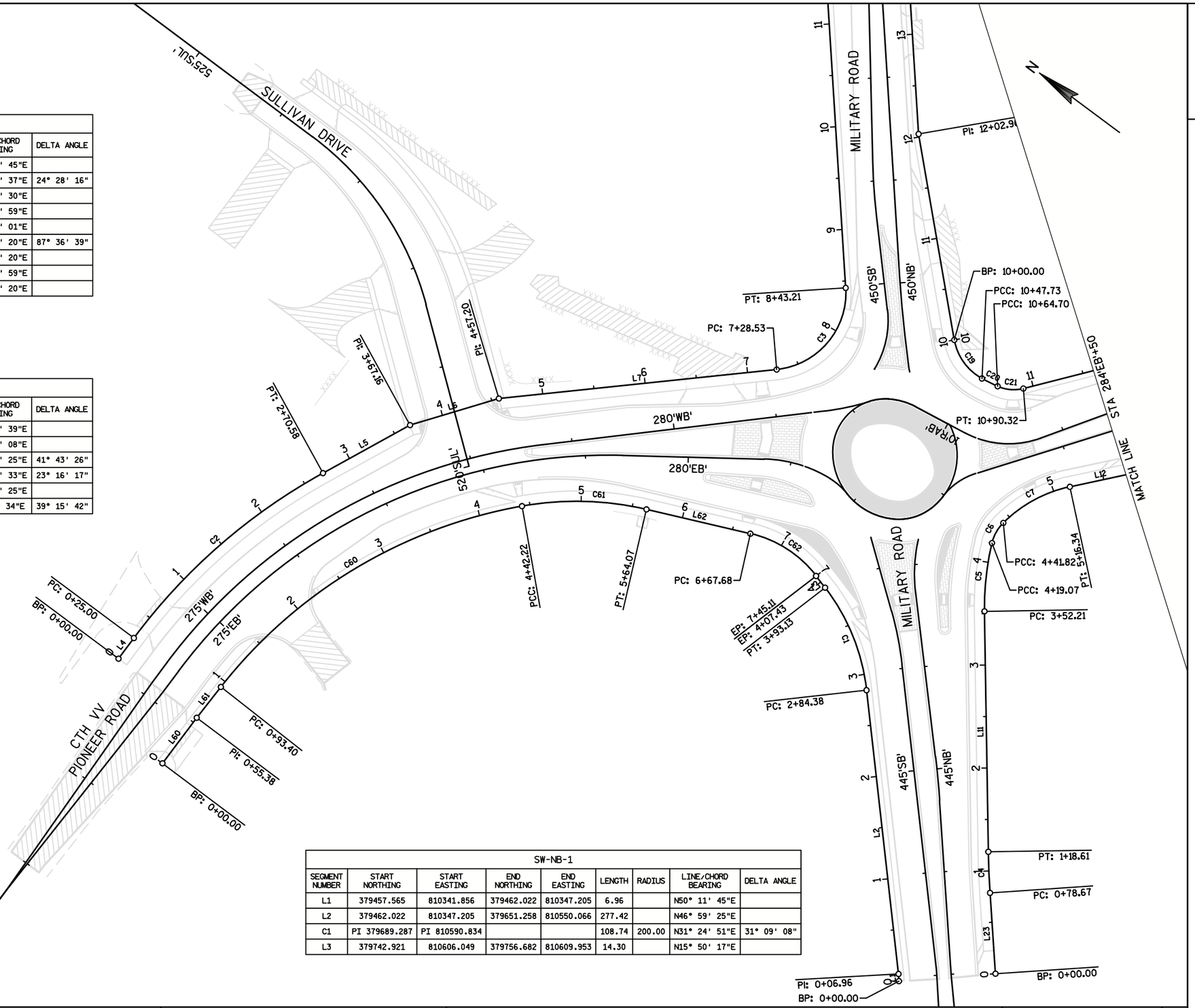
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L2	379482.743	810489.424	379619.903	810668.312	225.42		N52° 31' 16"E	
CURVE-5	PI 379641.804	PI 810696.875			71.61	286.00	N59° 41' 38"E	14° 20' 45"
CURVE-6	PI 379662.657	PI 810745.687			33.29	60.00	N82° 45' 47"E	31° 47' 32"
CURVE-7	PI 379653.482	PI 810805.937			85.34	150.00	S65° 02' 34"E	32° 35' 47"

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: ROUNDABOUT	SHEET 197	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027204-AD.DWG PLOT DATE : 7/29/2016 9:35 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : _____ PLOT SCALE : 1" = 80'_XREF
WISDOT/CADDS SHEET 42

SW-WB-1								
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L4	380253.040	810141.737	380252.995	810166.737	25.00		S89° 53' 45"E	
C2	PI 380252.768	PI 810291.429			245.58	575.00	S77° 39' 37"E	24° 28' 16"
L5	380200.910	810404.827	380160.745	810492.656	96.58		S65° 25' 30"E	
L6	380160.745	810492.656	380106.849	810564.788	90.04		S53° 13' 59"E	
L7	380106.849	810564.788	379906.913	810748.211	271.33		S42° 32' 01"E	
C3	PI 379853.905	PI 810796.841			114.68	75.00	S86° 20' 20"E	87° 36' 39"
L8	379900.283	810851.831	380297.429	811322.716	616.00		N49° 51' 20"E	
L9	380297.429	811322.716	380376.987	811438.761	140.70		N55° 33' 59"E	
L10	380376.987	811438.761	380380.366	811442.768	5.24		N49° 51' 20"E	

SW-EB-1								
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L60	380158.190	810085.525	380157.863	810140.909	55.38		S89° 39' 39"E	
L61	380157.863	810140.909	380156.813	810178.910	38.02		S88° 25' 08"E	
C60	PI 380151.776	PI 810361.388			348.82	479.00	S67° 33' 25"E	41° 43' 26"
C61	PI 379984.199	PI 810539.185			121.85	300.00	S35° 03' 33"E	23° 16' 17"
L62	379927.514	810563.743	379832.442	810604.931	103.61		S23° 25' 25"E	
C62	PI 379795.458	PI 810620.953			77.43	113.00	S3° 47' 34"E	39° 15' 42"



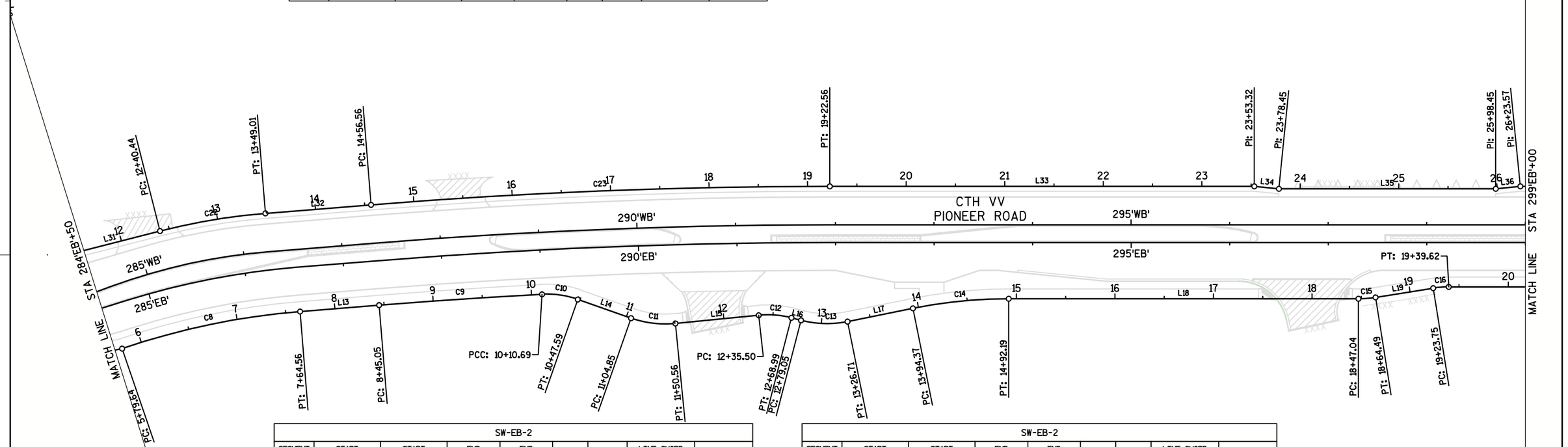
SW-NB-1								
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L1	379457.565	810341.856	379462.022	810347.205	6.96		N50° 11' 45"E	
L2	379462.022	810347.205	379651.258	810550.066	277.42		N46° 59' 25"E	
C1	PI 379689.287	PI 810590.834			108.74	200.00	N31° 24' 51"E	31° 09' 08"
L3	379742.921	810606.049	379756.682	810609.953	14.30		N15° 50' 17"E	

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: SIDEWALK CTH VV	SHEET	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027205-AD.DWG PLOT DATE : 8/1/2016 11:03 AM PLOT BY : AARON SARAUER PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 42

SW-WB-2								
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
C19	PI 379766.914	PI 810856.432			47.73	53.00	S17° 48' 04"W	51° 35' 36"
C20	PI 379733.138	PI 810861.176			16.97	228.00	S10° 07' 43"E	4° 15' 56"
C21	PI 379711.824	PI 810865.808			25.62	38.00	S31° 34' 43"E	38° 38' 05"
L31	379703.422	810876.145	379608.738	810992.637	150.12		S50° 53' 45"E	
C22	PI 379574.415	PI 811034.864			108.57	640.88	S46° 02' 33"E	9° 42' 24"
L32	379533.465	811070.700	379452.533	811141.524	107.55		S41° 11' 21"E	
C23	PI 379277.097	PI 811295.049			466.00	5779.58	S38° 52' 46"E	4° 37' 11"
L33	379089.866	811433.944	378743.903	811690.594	430.77		S36° 34' 10"E	
L34	378743.903	811690.594	378722.336	811703.481	25.12		S30° 51' 32"E	
L35	378722.336	811703.481	378545.646	811834.557	220.00		S36° 34' 10"E	
L36	378545.646	811834.557	378527.057	811851.460	25.12		S42° 16' 49"E	
L37	378527.057	811851.460	378134.282	812142.837	489.05		S36° 34' 10"E	

SW-WB-2								
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
C24	PI 378123.570	PI 812150.783			25.70	39.00	S55° 26' 58"E	37° 45' 35"
L46	378119.968	812163.625	378024.779	812233.403	118.02		S36° 14' 36"E	
C25	PI 378012.064	PI 812233.503			24.58	39.00	S18° 30' 40"E	36° 07' 01"
L29	378001.851	812241.079	377713.592	812454.922	358.92		S36° 34' 10"E	
C26	PI 377594.451	PI 812543.306			293.60	831.47	S46° 41' 08"E	20° 13' 54"
C27	PI 377465.536	PI 812740.318			170.85	357.00	S70° 30' 42"E	27° 25' 15"
L30	377456.768	812826.972	377453.207	812862.168	35.38		S84° 13' 20"E	



SW-EB-2								
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L23	379386.586	810403.527	379437.586	810463.434	78.67		N49° 35' 28"E	
C4	PI 379450.534	PI 810478.642			39.94	781.00	N51° 03' 22"E	2° 55' 48"
L11	379462.687	810494.492	379604.825	810679.873	233.60		N52° 31' 16"E	
C5	PI 379625.271	PI 810706.538			66.85	267.00	N59° 41' 38"E	14° 20' 45"
C6	PI 379643.059	PI 810748.175			22.75	41.00	N82° 45' 47"E	31° 47' 32"
C7	PI 379635.535	PI 810797.584			74.53	131.00	S65° 02' 35"E	32° 35' 46"
L12	379610.278	810826.379	379568.536	810873.967	63.30		S48° 44' 42"E	
C8	PI 379515.878	PI 810950.550			184.91	741.00	S48° 20' 18"E	14° 17' 53"
L13	379445.937	811011.755	379385.361	811064.765	80.50		S41° 11' 21"E	
C9	PI 379323.033	PI 811119.308			165.63	5677.58	S40° 21' 13"E	1° 40' 17"
C10	PI 379244.724	PI 811183.902			36.91	95.00	S28° 23' 19"E	22° 15' 30"
L14	379226.877	811189.447	379172.199	811206.435	57.26		S17° 15' 33"E	
C11	PI 379150.023	PI 811213.324			45.71	105.00	S29° 43' 49"E	24° 56' 30"
L15	379132.820	811228.923	379069.898	811285.979	84.94		S42° 12' 04"E	
C12	PI 379057.364	PI 811297.346			33.49	95.00	S32° 06' 07"E	20° 11' 54"
L16	379041.675	811303.685	379032.341	811307.457	10.07		S22° 00' 09"E	
C13	PI 379009.861	PI 811316.541			47.66	105.00	S35° 00' 19"E	26° 00' 20"

SW-EB-2								
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L17	378993.639	811334.562	378948.375	811384.847	67.66		S48° 00' 29"E	
C14	PI 378915.543	PI 811421.321			97.82	490.00	S42° 17' 20"E	11° 26' 18"
L18	378876.129	811450.559	378591.137	811661.978	354.85		S36° 34' 10"E	
C15	PI 378584.114	PI 811667.188			17.45	110.00	S41° 06' 53"E	9° 05' 25"
L19	378578.003	811673.442	378536.585	811715.825	59.26		S45° 39' 35"E	
C16	PI 378531.029	PI 811721.511			15.87	100.00	S41° 06' 53"E	9° 05' 25"
L20	378524.644	811726.247	378310.824	811884.868	266.23		S36° 34' 10"E	
L21	378310.824	811884.868	378207.299	811946.726	120.60		S30° 51' 32"E	
L22	378207.299	811946.726	378012.556	812091.195	242.48		S36° 34' 10"E	
L27	378012.556	812091.195	377961.442	812136.584	68.36		S41° 36' 18"E	
L28	377961.442	812136.584	377923.732	812164.558	46.95		S36° 34' 10"E	
L24	377923.732	812164.558	377910.678	812174.366	16.33		S36° 54' 57"E	
L25	377910.678	812174.366	377802.352	812262.074	139.38		S38° 59' 46"E	
L26	377802.352	812262.074	377652.821	812373.002	186.18		S36° 34' 10"E	
C17	PI 377568.491	PI 812435.562			209.12	933.47	S42° 59' 15"E	12° 50' 09"
C18	PI 377473.832	PI 812545.803			80.47	556.71	S53° 20' 35"E	8° 16' 54"

2

2

N

MATCH LINE

STA 299+00

CTH VV
PIONEER ROAD

300'WB'
300'EB'
305'WB'
305'EB'
310'WB'
310'EB'

14'MM'
10'MM'
61'MM'

PI: 22+05.85
PI: 23+26.45
PI: 25+68.93
PI: 26+37.29
PI: 26+84.24
PI: 27+00.57
PI: 28+39.95
PC: 30+26.13
PCC: 32+35.26
EP: 33+15.72
PT: 31+38.33
PC: 31+12.63
PC: 32+56.35
PT: 32+80.94
PC: 36+39.85
PCC: 39+33.46
PT: 41+04.31
EP: 41+39.69

L20 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L37 L46

C17 C18 C24 C25 C26 C27

21 22 23 24 25 26 27 28 29 30 31 32 33 35 36 37 38 39 40 41

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: SIDEWALK CTH VV	SHEET 200	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027205-AD.DWG PLOT DATE : 8/1/2016 11:04 AM PLOT BY : AARON SARAUER PLOT NAME : _____ PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

SW-WB-1								
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
C3	PI 379853.905	PI 810796.841			114.68	75.00	S86° 20' 20"E	87° 36' 39"
L8	379900.283	810851.831	380297.429	811322.716	616.00		N49° 51' 20"E	
L9	380297.429	811322.716	380376.987	811438.761	140.70		N55° 33' 59"E	
L10	380376.987	811438.761	380380.366	811442.768	5.24		N49° 51' 20"E	

SW-NB-2								
SEGMENT NUMBER	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	RADIUS	LINE/CHORD BEARING	DELTA ANGLE
L47	379785.466	810874.097	379932.452	811014.059	202.96		N43° 35' 52"E	
L48	379932.452	811014.059	380126.098	811243.660	300.36		N49° 51' 20"E	
L49	380126.098	811243.660	380157.450	811280.833	48.63		N49° 51' 20"E	
L50	380157.450	811280.833	380329.914	811485.319	267.50		N49° 51' 20"E	

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	ALIGNMENT DIAGRAM: SIDEWALK MILITARY ROAD	SHEET 201 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-027206-AD.DWG
LAYOUT NAME - 49860022-027206-AD-01-MILITARY
PLOT DATE : 8/1/2016 11:04 AM PLOT BY : AARON SARAUER PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

4986-00-22

Line	Item	Item Description	Unit	Total	Qty
0010	201.0205	Grubbing	STA	16.000	16.000
0020	201.0220	Grubbing	ID	14.000	14.000
0030	203.0100	Removing Small Pipe Culverts	EACH	9.000	9.000
0040	204.0100	Removing Pavement	SY	8,850.000	8,850.000
0050	204.0150	Removing Curb & Gutter	LF	1,700.000	1,700.000
0060	204.0155	Removing Concrete Sidewalk	SY	170.000	170.000
0070	204.0190	Removing Surface Drains	EACH	1.000	1.000
0080	204.0195	Removing Concrete Bases	EACH	16.000	16.000
0090	204.0210	Removing Manholes	EACH	16.000	16.000
0100	204.0220	Removing Inlets	EACH	28.000	28.000
0110	204.0245	Removing Storm Sewer (size) 01. 6-Inch	LF	35.000	35.000
0120	204.0245	Removing Storm Sewer (size) 02. 8-Inch	LF	190.000	190.000
0130	204.0245	Removing Storm Sewer (size) 03. 12-Inch	LF	350.000	350.000
0140	204.0245	Removing Storm Sewer (size) 04. 15-Inch	LF	880.000	880.000
0150	204.0245	Removing Storm Sewer (size) 05. 18-Inch	LF	840.000	840.000
0160	204.0245	Removing Storm Sewer (size) 06. 24-Inch	LF	290.000	290.000
0170	204.0245	Removing Storm Sewer (size) 07. 27-Inch	LF	20.000	20.000
0180	204.0245	Removing Storm Sewer (size) 08. 30-Inch	LF	1,500.000	1,500.000
0190	204.0245	Removing Storm Sewer (size) 09. 36-Inch	LF	20.000	20.000
0200	204.0245	Removing Storm Sewer (size) 10. 42-Inch	LF	1,550.000	1,550.000
0210	204.0245	Removing Storm Sewer (size) 11. 28X42-Inch	LF	90.000	90.000
0220	204.9060.S	Removing (item description) 01. Steel Posts	EACH	2.000	2.000
0230	205.0100	Excavation Common	CY	52,500.000	52,500.000
0240	213.0100	Finishing Roadway (project) 01. 4986-00-22	EACH	1.000	1.000
0250	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,850.000	1,850.000
0260	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	24,200.000	24,200.000
0270	311.0110	Breaker Run	TON	39,200.000	39,200.000
0280	405.0200	Coloring Concrete Custom	CY	215.000	215.000
0290	405.1000	Stamping Colored Concrete	CY	150.000	150.000
0300	415.0085	Concrete Pavement 8 1/2-Inch	SY	35,300.000	35,300.000
0310	415.0210	Concrete Pavement Gaps	EACH	18.000	18.000
0320	416.0160	Concrete Driveway 6-Inch	SY	135.000	135.000
0330	416.0180	Concrete Driveway 8-Inch	SY	1,060.000	1,060.000
0340	416.0512	Concrete Truck Apron 12-Inch	SY	645.000	645.000
0350	416.0610	Drilled Tie Bars	EACH	310.000	310.000
0360	416.0620	Drilled Dowel Bars	EACH	127.000	127.000
0370	455.0605	Tack Coat	GAL	395.000	395.000
0380	465.0105	Asphaltic Surface	TON	1,660.000	1,660.000
0390	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	420.000	420.000
0400	465.0125	Asphaltic Surface Temporary	TON	195.000	195.000

4986-00-22

Line	Item	Item Description	Unit	Total	Qty
0410	520.8000	Concrete Collars for Pipe	EACH	14.000	14.000
0420	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	2.000	2.000
0430	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0440	523.0529	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	2.000	2.000
0450	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	4,790.000	4,790.000
0460	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	6,880.000	6,880.000
0470	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	735.000	735.000
0480	601.0452	Concrete Curb & Gutter Integral 30-Inch Type D	LF	6,500.000	6,500.000
0490	601.0580	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	LF	365.000	365.000
0500	601.0600	Concrete Curb Pedestrian	LF	250.000	250.000
0510	602.0405	Concrete Sidewalk 4-Inch	SF	46,300.000	46,300.000
0520	602.0415	Concrete Sidewalk 6-Inch	SF	2,500.000	2,500.000
0530	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	780.000	780.000
0540	606.0200	Riprap Medium	CY	190.000	190.000
0550	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,400.000	1,400.000
0560	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	578.000	578.000
0570	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	10.000	10.000
0580	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	422.000	422.000
0590	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	430.000	430.000
0600	608.0354	Storm Sewer Pipe Reinforced Concrete Class III 54-Inch	LF	1,177.000	1,177.000
0610	608.0360	Storm Sewer Pipe Reinforced Concrete Class III 60-Inch	LF	278.000	278.000
0620	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	252.000	252.000
0630	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	1,851.000	1,851.000
0640	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	657.000	657.000
0650	608.0524	Storm Sewer Pipe Reinforced Concrete Class V 24-Inch	LF	63.000	63.000
0660	608.0530	Storm Sewer Pipe Reinforced Concrete Class V 30-Inch	LF	712.000	712.000
0670	608.6006	Storm Sewer Pipe Composite 6-Inch	LF	19.000	19.000
0680	608.6012	Storm Sewer Pipe Composite 12-Inch	LF	13.000	13.000
0690	610.0429	Storm Sewer Pipe Reinforced Concrete Horizontal	LF	140.000	140.000

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Line	Item	Item Description	Unit	Total	Qty
		Elliptical Class HE-IV 29x45-Inch			
0700	610.0434	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	310.000	310.000
0710	611.0530	Manhole Covers Type J	EACH	42.000	42.000
0720	611.0612	Inlet Covers Type C	EACH	8.000	8.000
0730	611.0624	Inlet Covers Type H	EACH	26.000	26.000
0740	611.0639	Inlet Covers Type H-S	EACH	38.000	38.000
0750	611.0642	Inlet Covers Type MS	EACH	9.000	9.000
0760	611.0652	Inlet Covers Type T	EACH	3.000	3.000
0770	611.0666	Inlet Covers Type Z	EACH	14.000	14.000
0780	611.1230	Catch Basins 2x3-FT	EACH	15.000	15.000
0790	611.2004	Manholes 4-FT Diameter	EACH	7.000	7.000
0800	611.2005	Manholes 5-FT Diameter	EACH	3.000	3.000
0810	611.2006	Manholes 6-FT Diameter	EACH	19.000	19.000
0820	611.2008	Manholes 8-FT Diameter	EACH	15.000	15.000
0830	611.2504	Manholes Variable Tee 4-FT Diameter	EACH	1.000	1.000
0840	611.3003	Inlets 3-FT Diameter	EACH	19.000	19.000
0850	611.3225	Inlets 2x2.5-FT	EACH	3.000	3.000
0860	611.3230	Inlets 2x3-FT	EACH	51.000	51.000
0870	611.3901	Inlets Median 1 Grate	EACH	3.000	3.000
0880	611.3902	Inlets Median 2 Grate	EACH	3.000	3.000
0890	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000
0900	611.8115	Adjusting Inlet Covers	EACH	3.000	3.000
0910	611.9710	Salvaged Inlet Covers	EACH	2.000	2.000
0920	611.9800.S	Pipe Grates	EACH	4.000	4.000
0930	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	900.000	900.000
0940	619.1000	Mobilization	EACH	1.000	1.000
0950	620.0100	Concrete Corrugated Median	SF	1,150.000	1,150.000
0960	620.0300	Concrete Median Sloped Nose	SF	1,020.000	1,020.000
0970	623.0200	Dust Control Surface Treatment	SY	38,800.000	38,800.000
0980	624.0100	Water	MGAL	910.000	910.000
0990	625.0100	Topsoil	SY	36,400.000	36,400.000
1000	628.1504	Silt Fence	LF	5,210.000	5,210.000
1010	628.1520	Silt Fence Maintenance	LF	5,210.000	5,210.000
1020	628.1905	Mobilizations Erosion Control	EACH	15.000	15.000
1030	628.1910	Mobilizations Emergency Erosion Control	EACH	10.000	10.000
1040	628.2006	Erosion Mat Urban Class I Type A	SY	35,350.000	35,350.000
1050	628.2008	Erosion Mat Urban Class I Type B	SY	1,050.000	1,050.000
1060	628.7005	Inlet Protection Type A	EACH	35.000	35.000
1070	628.7010	Inlet Protection Type B	EACH	15.000	15.000

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Line	Item	Item Description	Unit	Total	Qty
1080	628.7015	Inlet Protection Type C	EACH	80.000	80.000
1090	628.7020	Inlet Protection Type D	EACH	60.000	60.000
1100	628.7504	Temporary Ditch Checks	LF	60.000	60.000
1110	628.7555	Culvert Pipe Checks	EACH	51.000	51.000
1120	628.7560	Tracking Pads	EACH	8.000	8.000
1130	628.7570	Rock Bags	EACH	50.000	50.000
1140	629.0210	Fertilizer Type B	CWT	23.000	23.000
1150	630.0140	Seeding Mixture No. 40	LB	580.000	580.000
1160	633.5200	Markers Culvert End	EACH	4.000	4.000
1170	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	21.000	21.000
1180	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	56.000	56.000
1190	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	17.000	17.000
1200	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	2.000	2.000
1210	637.2210	Signs Type II Reflective H	SF	593.340	593.340
1220	637.2215	Signs Type II Reflective H Folding	SF	36.260	36.260
1230	637.2220	Signs Type II Reflective SH	SF	9.000	9.000
1240	637.2230	Signs Type II Reflective F	SF	52.750	52.750
1250	638.2102	Moving Signs Type II	EACH	23.000	23.000
1260	638.2602	Removing Signs Type II	EACH	47.000	47.000
1270	638.3000	Removing Small Sign Supports	EACH	55.000	55.000
1280	638.3100	Removing Structural Steel Sign Supports	EACH	2.000	2.000
1290	638.4000	Moving Small Sign Supports	EACH	15.000	15.000
1300	641.8100	Overhead Sign Support (structure) 01. S-20-0056	LS	1.000	1.000
1310	641.8100	Overhead Sign Support (structure) 02. S-20-0057	LS	1.000	1.000
1320	641.8100	Overhead Sign Support (structure) 03. S-20-0058	LS	1.000	1.000
1330	641.8100	Overhead Sign Support (structure) 04. S-20-0059	LS	1.000	1.000
1340	642.5201	Field Office Type C	EACH	1.000	1.000
1350	643.0100	Traffic Control (project) 01. 4986-00-22	EACH	1.000	1.000
1360	643.0300	Traffic Control Drums	DAY	125,140.000	125,140.000
1370	643.0410	Traffic Control Barricades Type II	DAY	1,976.000	1,976.000
1380	643.0420	Traffic Control Barricades Type III	DAY	16,193.000	16,193.000
1390	643.0705	Traffic Control Warning Lights Type A	DAY	27,280.000	27,280.000
1400	643.0715	Traffic Control Warning Lights Type C	DAY	6,780.000	6,780.000
1410	643.0900	Traffic Control Signs	DAY	19,682.000	19,682.000
1420	643.0920	Traffic Control Covering Signs Type II	EACH	4.000	4.000
1430	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
1440	645.0120	Geotextile Type HR	SY	380.000	380.000
1450	646.0106	Pavement Marking Epoxy 4-Inch	LF	14,100.000	14,100.000
1460	646.0126	Pavement Marking Epoxy 8-Inch	LF	2,600.000	2,600.000
1470	646.0600	Removing Pavement Markings	LF	1,230.000	1,230.000

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Line	Item	Item Description	Unit	Total	Qty
1480	646.0841.S	Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	LF	79.000	79.000
1490	646.0843.S	Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	LF	2,010.000	2,010.000
1500	647.0156	Pavement Marking Arrows Epoxy Type 1	EACH	2.000	2.000
1510	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	22.000	22.000
1520	647.0176	Pavement Marking Arrows Epoxy Type 3	EACH	1.000	1.000
1530	647.0206	Pavement Marking Arrows Bike Lane Epoxy	EACH	19.000	19.000
1540	647.0306	Pavement Marking Symbols Bike Lane Epoxy	EACH	19.000	19.000
1550	647.0356	Pavement Marking Words Epoxy	EACH	4.000	4.000
1560	647.0456	Pavement Marking Curb Epoxy	LF	235.000	235.000
1570	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	220.000	220.000
1580	647.0606	Pavement Marking Island Nose Epoxy	EACH	10.000	10.000
1590	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	420.000	420.000
1600	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	1,340.000	1,340.000
1610	647.0856	Pavement Marking Concrete Corrugated Median Epoxy	SF	450.000	450.000
1620	647.0955	Removing Pavement Markings Arrows	EACH	2.000	2.000
1630	647.0965	Removing Pavement Markings Words	EACH	1.000	1.000
1640	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	5,050.000	5,050.000
1650	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	2,770.000	2,770.000
1660	650.4000	Construction Staking Storm Sewer	EACH	144.000	144.000
1670	650.4500	Construction Staking Subgrade	LF	6,745.000	6,745.000
1680	650.5000	Construction Staking Base	LF	533.000	533.000
1690	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	735.000	735.000
1700	650.6500	Construction Staking Structure Layout (structure) 01. Retaining Wall	LS	1.000	1.000
1710	650.7000	Construction Staking Concrete Pavement	LF	6,212.000	6,212.000
1720	650.8500	Construction Staking Electrical Installations (project) 01. 4986-00-22	LS	1.000	1.000
1730	650.9910	Construction Staking Supplemental Control (project) 01. 4986-00-22	LS	1.000	1.000
1740	650.9920	Construction Staking Slope Stakes	LF	6,713.000	6,713.000
1750	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	11,247.000	11,247.000
1760	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	2,513.000	2,513.000
1770	652.0800	Conduit Loop Detector	LF	1,369.000	1,369.000
1780	653.0905	Removing Pull Boxes	EACH	7.000	7.000
1790	654.0101	Concrete Bases Type 1	EACH	10.000	10.000
1800	654.0102	Concrete Bases Type 2	EACH	2.000	2.000
1810	654.0105	Concrete Bases Type 5	EACH	28.000	28.000
1820	654.0113	Concrete Bases Type 13	EACH	4.000	4.000
1830	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
1840	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
1850	655.0230	Cable Traffic Signal 5-14 AWG	LF	1,065.000	1,065.000
1860	655.0260	Cable Traffic Signal 12-14 AWG	LF	3,152.000	3,152.000
1870	655.0270	Cable Traffic Signal 15-14 AWG	LF	413.000	413.000
1880	655.0305	Cable Type UF 2-12 AWG Grounded	LF	483.000	483.000
1890	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	1,783.000	1,783.000
1900	655.0610	Electrical Wire Lighting 12 AWG	LF	6,864.000	6,864.000
1910	655.0615	Electrical Wire Lighting 10 AWG	LF	4,495.000	4,495.000
1920	655.0625	Electrical Wire Lighting 6 AWG	LF	11,856.000	11,856.000
1930	655.0635	Electrical Wire Lighting 2 AWG	LF	8,276.000	8,276.000
1940	655.0700	Loop Detector Lead In Cable	LF	3,666.000	3,666.000
1950	655.0800	Loop Detector Wire	LF	4,718.000	4,718.000
1960	655.0900	Traffic Signal EVP Detector Cable	LF	566.000	566.000
1970	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. CTH VV & Private Driveway	LS	1.000	1.000
1980	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. CB 100	LS	1.000	1.000
1990	658.0110	Traffic Signal Face 3-12 Inch Vertical	EACH	19.000	19.000
2000	658.0115	Traffic Signal Face 4-12 Inch Vertical	EACH	6.000	6.000
2010	658.0215	Backplates Signal Face 3 Section 12-Inch	EACH	19.000	19.000
2020	658.0220	Backplates Signal Face 4 Section 12-Inch	EACH	6.000	6.000
2030	658.0416	Pedestrian Signal Face 16-Inch	EACH	10.000	10.000
2040	658.0500	Pedestrian Push Buttons	EACH	8.000	8.000
2050	658.0600	Led Modules 12-Inch Red Ball	EACH	14.000	14.000
2060	658.0605	Led Modules 12-Inch Yellow Ball	EACH	12.000	12.000
2070	658.0610	Led Modules 12-Inch Green Ball	EACH	12.000	12.000
2080	658.0615	Led Modules 12-Inch Red Arrow	EACH	11.000	11.000
2090	658.0620	Led Modules 12-Inch Yellow Arrow	EACH	23.000	23.000
2100	658.0625	Led Modules 12-Inch Green Arrow	EACH	9.000	9.000
2110	658.0635	Led Modules Pedestrian Countdown Timer 16-Inch	EACH	10.000	10.000
2120	658.5069	Signal Mounting Hardware (location) 01. CTH VV & Private Driveway	LS	1.000	1.000
2130	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	1.000	1.000
2140	673.0105	Communication Vault Type 1	EACH	5.000	5.000
2150	690.0150	Sawing Asphalt	LF	5,440.000	5,440.000
2160	690.0250	Sawing Concrete	LF	1,120.000	1,120.000
2170	715.0415	Incentive Strength Concrete Pavement	DOL	10,784.000	10,784.000
2180	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
2190	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,320.000	1,320.000
2200	SPV.0035	Special 001. Planting Mixture	CY	120.000	120.000

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Line	Item	Item Description	Unit	Total	Qty
2210	SPV.0060	Special 001. Inlet Covers Type HC	EACH	5.000	5.000
2220	SPV.0060	Special 002. Connect to Existing Storm Sewer Lateral	EACH	3.000	3.000
2230	SPV.0060	Special 003. Connect to Existing Storm Sewer Structure	EACH	3.000	3.000
2240	SPV.0060	Special 101. Pedestal Bases Black	EACH	10.000	10.000
2250	SPV.0060	Special 102. Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Black	EACH	30.000	30.000
2260	SPV.0060	Special 103. Poles Type 4 Black	EACH	2.000	2.000
2270	SPV.0060	Special 104. Poles Type 5 Aluminum Black	EACH	28.000	28.000
2280	SPV.0060	Special 105. Traffic Signal Standards Aluminum 3.5-FT Black	EACH	3.000	3.000
2290	SPV.0060	Special 106. Traffic Signal Standards Aluminum 10-FT Black	EACH	1.000	1.000
2300	SPV.0060	Special 107. Traffic Signal Standards Aluminum 13-FT Black	EACH	4.000	4.000
2310	SPV.0060	Special 108. Traffic Signal Standards Aluminum 15-FT Black	EACH	2.000	2.000
2320	SPV.0060	Special 109. Luminaire Arms Single Member 4-Inch Clamp 6-FT Black	EACH	4.000	4.000
2330	SPV.0060	Special 110. Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Black	EACH	26.000	26.000
2340	SPV.0060	Special 111. Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT Black	EACH	15.000	15.000
2350	SPV.0060	Special 112. Luminaire Utility Led B Black	EACH	45.000	45.000
2360	SPV.0060	Special 113. Pull Box Non-Conductive 24X36-Inch	EACH	6.000	6.000
2370	SPV.0060	Special 114. Pull Box Non-Conductive 24X42-Inch	EACH	35.000	35.000
2380	SPV.0060	Special 115. Furnish And Install Poles Type 12 Black	EACH	4.000	4.000
2390	SPV.0060	Special 116. Furnish And Install Monotube Arms 35-FT Black	EACH	1.000	1.000
2400	SPV.0060	Special 117. Furnish And Install Monotube Arms 40-FT Black	EACH	1.000	1.000
2410	SPV.0060	Special 118. Furnish And Install Monotube Arms 50-FT Black	EACH	1.000	1.000
2420	SPV.0060	Special 119. Furnish And Install Monotube Arms 55-FT Black	EACH	1.000	1.000
2430	SPV.0060	Special 201. Manholes Sanitary 4-FT Diameter	EACH	10.000	10.000
2440	SPV.0060	Special 202. Adjust Sanitary Sewer Manhole	EACH	2.000	2.000
2450	SPV.0060	Special 203. Reconstruct Sanitary Sewer Manhole	EACH	6.000	6.000
2460	SPV.0060	Special 301. Connect to Existing 6" Water Main	EACH	2.000	2.000
2470	SPV.0060	Special 302. Connect to Existing 10" Water Main	EACH	1.000	1.000
2480	SPV.0060	Special 303. Connect to Existing 12" Water Main	EACH	4.000	4.000
2490	SPV.0060	Special 304. Temporary 2" Blow Off	EACH	4.000	4.000
2500	SPV.0060	Special 305. 6" Water Main Valve and Box	EACH	2.000	2.000

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Line	Item	Item Description	Unit	Total	Qty
2510	SPV.0060	Special 306. 10" Water Main Valve and Box	EACH	1.000	1.000
2520	SPV.0060	Special 307. 12" Water Main Valve and Box	EACH	2.000	2.000
2530	SPV.0060	Special 308. 12"x12" Cross	EACH	1.000	1.000
2540	SPV.0060	Special 309. 12"x6" Tee	EACH	2.000	2.000
2550	SPV.0060	Special 310. 12"x10" Tee	EACH	1.000	1.000
2560	SPV.0060	Special 311. 10"-90 Degree Bend	EACH	1.000	1.000
2570	SPV.0060	Special 312. 6"-45 Degree Bend	EACH	11.000	11.000
2580	SPV.0060	Special 313. 10"-45 Degree Bend	EACH	4.000	4.000
2590	SPV.0060	Special 314. 12"-45 Degree Bend	EACH	3.000	3.000
2600	SPV.0060	Special 315. 12"x6" Reducer	EACH	1.000	1.000
2610	SPV.0060	Special 316. 12" Plug	EACH	1.000	1.000
2620	SPV.0060	Special 317. 1 1/4" Water Service	EACH	3.000	3.000
2630	SPV.0060	Special 318. Hydrant	EACH	1.000	1.000
2640	SPV.0060	Special 319. Remove Existing Hydrant	EACH	2.000	2.000
2650	SPV.0060	Special 320. Abandon Water Main Structure	EACH	2.000	2.000
2660	SPV.0060	Special 321. Adjust Water Valve Box	EACH	24.000	24.000
2670	SPV.0060	Special 322. Adjust Water Curb Box	EACH	3.000	3.000
2680	SPV.0060	Special 401. Pavement Marking Arrows Grooved Epoxy Type 1	EACH	2.000	2.000
2690	SPV.0060	Special 402. Pavement Marking Arrows Grooved Epoxy Type 2R	EACH	3.000	3.000
2700	SPV.0060	Special 403. Pavement Marking Arrows Grooved Epoxy Type 2	EACH	31.000	31.000
2710	SPV.0060	Special 404. Pavement Marking Arrows Grooved Epoxy Type 3R	EACH	8.000	8.000
2720	SPV.0060	Special 405. Pavement Marking Arrows Grooved Epoxy Type 3	EACH	7.000	7.000
2730	SPV.0060	Special 406. Pavement Marking Words Grooved Epoxy	EACH	25.000	25.000
2740	SPV.0075	Special 001. Street Sweeping	HRS	70.000	70.000
2750	SPV.0085	Special 001. Low Maintenance Seed Mix	LB	200.000	200.000
2760	SPV.0090	Special 001. Railing Tubular Galvanized	LF	220.000	220.000
2770	SPV.0090	Special 201. 6" PVC SDR 35 Sanitary Sewer Laterals	LF	109.000	109.000
2780	SPV.0090	Special 202. 8" PVC SDR 35 Sanitary Sewer Main	LF	925.000	925.000
2790	SPV.0090	Special 203. 10" PVC SDR 35 Sanitary Sewer Main	LF	10.000	10.000
2800	SPV.0090	Special 204. 12" PVC SDR 35 Sanitary Sewer Main	LF	5.000	5.000
2810	SPV.0090	Special 205. 15" PVC SDR 35 Sanitary Sewer Main	LF	30.000	30.000
2820	SPV.0090	Special 301. 6" PVC DR18 Water Main	LF	155.000	155.000
2830	SPV.0090	Special 302. 10" PVC DR18 Water Main	LF	50.000	50.000
2840	SPV.0090	Special 303. 12" PVC DR18 Water Main	LF	1,080.000	1,080.000
2850	SPV.0090	Special 304. 1 1/4" Polyethylene Water Service Pipe	LF	180.000	180.000
2860	SPV.0090	Special 401. Pavement Marking Grooved Epoxy 18-Inch	LF	96.000	96.000

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Line	Item	Item Description	Unit	Total	Qty
2870	SPV.0090	Special 402. Pavement Marking Crosswalk Grooved Epoxy 24-Inch	LF	520.000	520.000
2880	SPV.0105	Special 001. Concrete Pavement Joint Layout	LS	1.000	1.000
2890	SPV.0105	Special 002. Construction Staking Multi-Use Path And Sidewalk	LS	1.000	1.000
2900	SPV.0105	Special 101. Furnish and Install Traffic Signal Cabinet and Controller	LS	1.000	1.000
2910	SPV.0105	Special 102. Furnish And Install EVP System	LS	1.000	1.000
2920	SPV.0105	Special 103. Traffic Signal Systems Integrator (4986-00-22)	LS	1.000	1.000
2930	SPV.0105	Special 104. Salvage Traffic Signal (CTH VV & S Military Rd)	LS	1.000	1.000
2940	SPV.0105	Special 201. Abandoning Sanitary Sewer and Manholes	LS	1.000	1.000
2950	SPV.0105	Special 301. Abandoning Water Main and Appurtenances	LS	1.000	1.000
2960	SPV.0120	Special 001. Water for Seeded Areas	MGAL	610.000	610.000
2970	SPV.0165	Special 001. Wall Modular Block Gravity LRFD	SF	960.000	960.000
2980	SPV.0165	Special 301. Insulation Board 2-Inch	SF	128.000	128.000
2990	SPV.0180	Special 001. Preparing Topsoil for Lawn Type Turf	SY	35,300.000	35,300.000

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GRUBBING ITEMS

STATION - STATION	LOCATION	201.0205 GRUBBING STA	201.0220 GRUBBING ID
CATEGORY CODE 0010			
278'EB'+00 - 281'EB'+00	LT & RT	3	--
284'EB'+58	RT	--	6
285'EB'+00 - 288'EB'+00	RT	3	--
289'EB'+00 - 290'EB'+00	RT	1	--
291'EB'+00 - 292'EB'+00	RT	1	--
445'NB'+00 - 446'NB'+00	LT	1	--
446'SB'+52	LT	--	4
447'SB'+05	LT	--	4
452'NB'+00 - 454'NB'+00	RT	2	--
455'NB'+00 - 458'NB'+00	RT	3	--
520'SUL'+00 - 521'SUL'+00	RT	1	--
522'SUL'+00 - 524'SUL'+00	LT & RT	2	--
29'OAK'+00 - 31'OAK'+00	LT & RT	2	--
	TOTALS	**16**	**14**

COUNTY WILL PROVIDE THE CLEARING, CONTRACTOR WILL BE RESPONSIBLE FOR GRUBBING.

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	COMMENTS
CATEGORY CODE 0010			
274'WB'+64	LT	1	REMOVE 51 LF OF CMP 18-INCH
277'WB'+33	LT	1	REMOVE 43 LF OF RCP 18-INCH
11'RAB'+24	RT	1	REMOVE 85 LF OF CMP 18-INCH
13'RAB'+39	RT	1	REMOVE 12 LF OF CMP 15-INCH
285'WB'+11	LT	1	REMOVE 65 LF OF CMP 18-INCH
288'WB'+20	LT	1	REMOVE 50 LF OF CMP 18-INCH
310'WB'+08	LT	1	REMOVE 40 LF OF CMP 24-INCH
445'NB'+09	LT	1	REMOVE 98 LF OF RCHE 29X48-INCH
522'SUL'+11	RT	1	REMOVE 17 LF OF CMP 24-INCH
	TOTAL	**9**	

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF
CATEGORY CODE 0010		
290'EB'+15 - 290'EB'+53	RT	78
290'EB'+99 - 291'EB'+19	RT	66
296'EB'+20 - 296'EB'+60	RT	82
297'EB'+04 - 297'EB'+35	RT	88
297'EB'+76 - 297'EB'+85	RT	34
438'NB'+86 - 442'NB'+60	LT	374
438'SB'+86 - 442'SB'+60	RT	374
447'SB'+55 - 448'SB'+07	RT	52
448'SB'+69 - 449'SB'+61	LT	88
522'SUL'+10 - 523'SUL'+43	RT	158
30'OAK'+31 - 30'OAK'+63	LT	40
10'MM'+20 - 11'MM'+27	RT	132
10'MM'+51 - 11'MM'+81	LT	134
	TOTAL	**1,700**

3

REMOVING PAVEMENT

STATION - STATION	LOCATION	204.0100 SY
CATEGORY CODE 0010		
281'EB'+40 - 281'EB'+52	LT	18
282'WB'+34 - 282'WB'+65	LT	28
311'EB'+02 - 311'EB'+07	LT & RT	38
442'NB'+94 - 457'NB'+84	LT & RT	8,690
447'NB'+93 - 448'NB'+50	LT	24
8'MM'+78 - 9'MM'+55	LT	52
	TOTAL	**8,850**

REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY
CATEGORY CODE 0010		
454'NB'+86 - 457'NB'+54	RT	140
457'SB'+05 - 457'NB'+60	LT	28
523'SUL'+99 - 524'SUL'+04	RT	2
	TOTAL	**170**

REMOVING SURFACE DRAINS

STATION	LOCATION	204.0190 EACH
CATEGORY CODE 0010		
291'EB'+10	RT	1
	TOTAL	**1**

REMOVING STORM SEWER ITEMS

STATION - STATION	LOCATION	204.0210* REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER 6-INCH LF	204.0245.02 REMOVING STORM SEWER 8-INCH LF	204.0245.03 REMOVING STORM SEWER 12-INCH LF	204.0245.04 REMOVING STORM SEWER 15-INCH LF	204.0245.05 REMOVING STORM SEWER 18-INCH LF	204.0245.06 REMOVING STORM SEWER 24-INCH LF	204.0245.07 REMOVING STORM SEWER 27-INCH LF	204.0245.08 REMOVING STORM SEWER 30-INCH LF	204.0245.09 REMOVING STORM SEWER 36-INCH LF	204.0245.10 REMOVING STORM SEWER 42-INCH LF	204.0245.11 REMOVING STORM SEWER 28x42-INCH LF
CATEGORY CODE 0010														
273'EB'+73 - 279'EB'+62	LT & RT	--	4	--	--	61	--	552	--	--	--	--	--	90
524'SUL'+24 - 306'EB'+80	LT & RT	5	10	--	--	70	839	64	239	20	854	20	1,550	--
286'WB'+06	LT	--	--	4	--	--	--	--	--	--	--	--	--	--
308'EB'+11 - 308'EB'+18	RT	--	1	--	--	--	--	10	--	--	--	--	--	--
443'NB'+00 - 443'NB'+08	RT	--	--	--	--	--	--	32	--	--	--	--	--	--
444'NB'+80 - 444'SB'+84	LT & RT	--	2	--	--	60	20	--	--	--	--	--	--	--
446'SB'+98 - 447'NB'+02	LT & RT	--	2	--	--	52	--	22	--	--	--	--	--	--
448'NB'+72 - 450'NB'+82	RT	--	2	--	--	--	21	160	--	--	--	--	--	--
451'NB'+33 - 457'NB'+75	RT	4	7	31	190	107	--	--	51	--	646	--	--	--
	TOTALS	**9**	**28**	**35**	**190**	**350**	**880**	**840**	**290**	**20**	**1,500**	**20**	**1,550**	**90**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

3

REMOVING STEEL POSTS

STATION - STATION	LOCATION	204.9060.S.01 EACH
CATEGORY CODE 0010		
283'EB'+18 - 283'EB'+22	LT	2
	TOTAL	**2**

REMOVING CONCRETE BASES

STATION	LOCATION	204.0195* EACH	COMMENTS
CATEGORY CODE 0010			
280'WB'+04	LT	1	REMOVE LIGHT POLE BASE
280'EB'+12	RT	1	REMOVE SIGN BASE
291'EB'+05	RT	1	REMOVE LIGHT POLE BASE
297'EB'+19	RT	1	REMOVE SIGN BASE
303'WB'+94	LT	1	REMOVE SIGN BASE
305'EB'+44	RT	1	REMOVE LIGHT POLE BASE
307'EB'+78	RT	1	REMOVE LIGHT POLE BASE
308'EB'+28	RT	1	REMOVE LIGHT POLE BASE
	TOTAL	**8**	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

BASE AGGREGATE DENSE AND BREAKER RUN ITEMS

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	624.0100 WATER MGAL
CATEGORY CODE 0010					
272'EB'+00 - 281'EB'+07	LT & RT	584	3,850	6,068	146
283'EB'+13 - 311'EB'+07	LT & RT	700	10,805	20,673	449
438'NB'+86 - 447'NB'+25	LT & RT	165	1,870	3,390	76
449'NB'+13 - 457'NB'+84	LT & RT	306	2,530	5,104	111
520'SUL'+33 - 524'SUL'+50	LT & RT	95	1,770	2,102	55
30'OAK'+53 - 32'OAK+60	LT & RT	--	35	63	2
8'MM'+10 - 9'MM'+33	LT & RT	--	670	--	9
10'MM'+49 - 11'MM'+81	LT & RT	--	535	--	7
10'RAB'+00 - 13'RAB'+70	LT & RT	--	775	1,800	36
UNDISTRIBUTED FOR TRAFFIC CONTROL		--	1,360	--	19
	TOTALS	**1,850**	**24,200**	**39,200**	**910**

BASE AGGREGATE DENSE 3/4-INCH WEIGHT CALCULATIONS BASED ON 2.1 TONS/CY.
BASE AGGREGATE DENSE 1 1/4-INCH WEIGHT CALCULATIONS BASED ON 2.0 TONS/CY.
BREAKER RUN WEIGHT CALCULATIONS BASED ON 1.8 TONS/CY.

EARTHWORK SUMMARY

DIVISION	FROM/TO STATION	LOCATION	EXCAVATION COMMON (1) ITEM #205.0100 CUT	EBS EXCAVATION (2)	AVAILABLE MATERIAL	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.30	MASS ORDINATE +/- (3)	WASTE	COMMENT:
DIVISION 1										
	438+86 - 442+60	TEMPORARY CROSSOVER	451	0	451	0	0	451	451	
	272+00 - 311+07	CTH VV EB	20288	0	20288	757	985	19303	19303	
	272+00 - 314+37	CTH VV WB	16498	0	16498	3572	4643	11855	11855	
	443+00 - 457+84	MILITARY NB	5550	0	5550	773	1004	4546	4546	
	443+00 - 457+01	MILITARY SB	5097	0	5097	550	715	4382	4382	
	521+00 - 524+50	SULLIVAN	1800	0	1800	134	174	1626	1626	
	8+10 - 11+79	MERCURY	584	0	584	13	16	567	567	
	10+00 - 13+50	ROUNDABOUT	1675	0	1675	85	110	1564	1564	
		UNDISTRIBUTED	0	557					557	
		DIVISION 1 SUBTOTAL	51943	557	51943	5883	7648	44295	44852	
		GRAND TOTAL	51943	557	51943	5883	7648	44295	44852	
		TOTAL EXCAVATION COMMON	**52500**							

NOTES:
1 - COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
2 - EBS EXCAVATION SHALL BE BACKFILLED WITH BREAKER RUN. EBS MATERIAL SHALL NOT BE PLACED WITHIN THE PROJECT LIMITS
3 - THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

CONCRETE PAVEMENT ITEMS

STATION - STATION	LOCATION	405.0200 COLORING CONCRETE CUSTOM CY	415.0085 CONCRETE PAVEMENT 8 1/2-INCH SY	416.0512 CONCRETE TRUCK APRON 12-INCH SY	COMMENTS
CATEGORY CODE 0010					
274'EB'+13 - 281'EB'+12	LT & RT	--	4,502	--	--
9'W'+54 - 10'W'+75	RT	30	--	85	ISLAND TRUCK APRON
283'EB'+13 - 311'EB'+07	LT & RT	--	19,744	--	--
442'NB'+97 - 447'NB'+24	LT & RT	--	2,752	--	--
2+40 - 3+02	RT	5	--	22	ISLAND TRUCK APRON
449'NB'+13 - 457'NB'+84	LT & RT	--	4,952	--	--
520'SUL'+33 - 524'SUL'+24	LT & RT	--	1,962	--	--
10'RAB'+00 - 13'RAB'+70	LT & RT	--	1,388	--	--
10'RAB'+00 - 13'RAB'+70	LT	180	--	538	ROUNDABOUT TRUCK APRON
	TOTALS	**215**	**35,300**	**645**	

CONCRETE PAVEMENT GAPS

LOCATION	415.0210 EACH
VALLEY TRUCK LEASING	2
AIRGAS	2
FLEET FARM GAS STATION	2
FLEET FARM STORE	2
MANOWSKE WELDING	2
MARINE CREDIT UNION	2
MERCURY MARINE NORTH LOT	2
MERCURY MARINE SOUTH LOT	2
OAK PARK AVENUE	2
TOTAL	**18**

DRILLED TIE BARS AND DRILLED DOWEL BARS

STATION - STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	COMMENTS
CATEGORY CODE 0010				
290'EB'+52 - 291'EB'+05	RT	6	--	MERCURY NORTH ENTRANCE
296'EB'+60 - 297'EB'+11	RT	6	--	MERCURY CENTER ENTRANCE
304'WB'+84	LT	3	--	MERCURY INTERSECTION
311'EB'+07	LT & RT	10	38	CTH VV PROJECT LIMITS
438'NB'+06 - 442'NB'+60	LT & RT	261	33	MILITARY RD CROSSOVER
442'NB'+96	LT & RT	12	32	MILITARY RD CONSTRUCTION LIMITS
457'NB'+60	LT & RT	6	24	MILITARY RD CONSTRUCTION LIMITS
30'OAK'+72	LT & RT	6	--	OAK PARK AVE CURB & GUTTER LIMITS
	TOTALS	**310**	**127**	

CONCRETE DRIVEWAY ITEMS

STATION	LOCATION	416.0160 CONCRETE DRIVEWAY 6-INCH SY	416.0180 CONCRETE DRIVEWAY 8-INCH SY	COMMENTS
CATEGORY CODE 0010				
273'EB'+86	RT	--	70	TRANSCANADA
274'WB'+65	LT	--	60	VALLEY TRUCK LEASING
280'WB'+40	LT	--	100	FLEET FARM GAS
285'WB'+10	LT	--	80	MANOWSKE & MARINE CU
288'WB'+24	LT	63	--	MARINE CU
290'EB'+72	RT	--	190	MERCURY MARINE
308'EB'+04	RT	--	35	MERCURY MARINE
450'NB'+39	RT	--	105	MANOWSKE
452'NB'+39	RT	--	40	MANOWSKE
456'NB'+14	RT	35	--	FRENCHIE'S TAVERN
457'NB'+45	RT	28	--	RICH'S ENGINE
457'NB'+69	RT	9	--	BRENNER TANK
521'SUL'+83	RT	--	95	FLEET FARM
521'SUL'+91	LT	--	95	AIRGAS
523'SUL'+74	RT	--	95	FLEET FARM
523'SUL'+75	LT	--	95	AIRGAS
	TOTALS	**135**	**1,060**	

ASPHALTIC ITEMS

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	COMMENTS
CATEGORY CODE 0010						
272'EB'+00 - 274'EB'+13	LT & RT	160	412	--	--	CTH VV
273'EB'+86	RT	--	--	4	--	DRIVEWAY
274'WB'+12 - 450'SB'+21	LT	--	140	--	--	PATH
274'WB'+65	LT	--	--	4	--	DRIVEWAY
279'EB'+51 - 279'EB'+63	RT	--	--	2	--	PARKING LOT
280'WB'+40	LT	--	--	93	--	DRIVEWAY & PARKING LOT
442'NB'+97 - 311'EB'+28	RT	--	580	--	--	PATH
285'WB'+10	LT	--	--	20	--	DRIVEWAY
288'WB'+24	LT	--	--	18	--	DRIVEWAY
290'EB'+72	RT	--	--	37	--	DRIVEWAY
296'EB'85	RT	24	76	--	--	DRIVEWAY
308'EB'+04	RT	--	--	8	--	DRIVEWAY
450'NB'+39	RT	--	--	33	--	DRIVEWAY & PARKING LOT
452'NB'+39	RT	--	--	5	--	DRIVEWAY
456'NB'+14	RT	--	--	5	--	DRIVEWAY
457'NB'+45	RT	--	--	1	--	DRIVEWAY
58'PR'+79 - 59'PR'+28	LT & RT	13	40	--	--	PRIVATE ROAD
521'SUL'+83	RT	--	--	39	--	DRIVEWAY
521'SUL'+91	LT	--	--	50	--	DRIVEWAY
523'SUL'+74	RT	--	--	45	--	DRIVEWAY & PARKING LOT
523'SUL'+75	LT	--	--	56	--	DRIVEWAY
524'SUL'+24 - 524'SUL'+50	LT & RT	13	36	--	--	SULLIVAN DRIVE
29'OAK'+16 - 29'OAK'+36	LT & RT	7	24	--	--	FLEET FARM ENTRANCE
30'OAK'+53 - 32'OAK'+60	LT & RT	8	20	--	--	OAK PARK AVENUE
8'MM'+10 - 9'MM'+33	LT & RT	57	176	--	--	MERCURY ENTRANCE
10'MM'+49 - 11'MM'+81	LT & RT	50	156	--	--	MERCURY ENTRANCE
TRAFFIC CONTROL STAGING		63	--	--	195	--
	TOTALS	**395**	**1,660**	**420**	**195**	

TACK COAT CALCULATIONS BASED ON 0.070 GAL/SY.

CONCRETE SIDEWALK & DETECTABLE WARNING FIELD

STATION - STATION	405.1000 STAMPING COLORED CONCRETE CY	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0515 CURB RAMP DETECTABLE WARINING FIELD NATURAL PATINA SF
CATEGORY CODE 0010				
273'EB'+58 RT - 442'SB'+97 LT	--	7,380	384	72
277'WB'+55 LT - 277'WB'+70 LT	--	--	148	24
278'WB'+26 LT - 278'WB'+46 LT	--	--	152	34
280'EB'+22 RT - 281'EB'+37 RT	12	1,060	--	40
280'EB'+43 LT - 281'EB'+07 LT	24	2,320	--	40
280'WB'+83 LT - 280'WB'+97 LT	--	--	196	20
457'NB'+54 RT - 314'WB'+45	--	19,605	428	84
283'EB'+19 LT - 283'EB'+72 LT	9	845	--	40
283'EB'+42 RT - 283'EB'+56 RT	--	--	80	20
284'EB'+28 RT - 284'EB'+50 RT	--	65	--	--
286'EB'+65 LT - 287'EB'+58 LT	6	465	--	--
290'EB'+43 RT - 290'EB'+51 RT	--	--	80	20
291'EB'+04 RT - 291'EB'+11 RT	--	--	80	20
291'EB'+40 LT - 292'EB'+86 LT	9	730	--	--
292'EB'+60 RT - 293'WB'+10 RT	--	470	--	--
296'EB'+29 RT - 296'EB'+48 RT	--	--	144	40
297'EB'+12 RT - 297'EB'+25 RT	--	--	112	24
297'EB'+63 LT - 299'EB'+57 LT	12	970	--	--
302'EB'+09 LT - 304'EB'+16 LT	12	1,030	--	--
304'EB'+07 RT - 304'EB'+16 RT	--	--	52	10
304'EB'+33 RT - 304'EB'52 RT	--	--	144	40
305'EB'+44 LT - 307'EB'+42 LT	12	990	--	--
305'EB'+49 RT - 305'EB'+66 RT	--	--	136	32
443'NB'+07 RT - 443'NB'+19 RT	--	65	--	--
446'NB'+35 RT - 447'NB'+63 RT	9	680	--	40
446'NB'+37 LT - 447'NB'+18 LT	24	2,120	--	40
446'NB'+52 RT - 446'NB+66 RT	--	--	80	20
449'NB'+19 LT - 450'NB'+50 LT	18	1,450	--	40
449'SB'+35 LT - 449'SB'+54 LT	--	--	172	20
449'SB'+77 LT - 457'NB'+60 LT	--	3,680	112	20
520'SUL'+52 LT - 521'SUL'+71 LT	--	585	--	--
520'SUL'+55 RT - 524'SUL'+04 RT	--	1,565	--	--
9'MM'+30 RT 9'MM'+54 RT	3	225	--	40
TOTALS	**150**	**46,300**	**2,500**	**780**

*CURB RAMPS TYPE 2, TYPE 3, AND TYPE 4B1 TO BE PAID FOR AS CONCRETE SIDEWALK 6-INCH
*CURB RAMPS TYPE 5 AND BIKE RAMPS TO BE PAID FOR AS CONCRETE SIDEWALK 4-INCH

RIPRAP AND GEOTEXTILE ITEMS

STATION - STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
CATEGORY CODE 0010			
442'NB'+64 - 445'NB'+00	RT	134	267
444'SB'+65 - 445'SB'+00	LT	19	38
UNDISTRIBUTED		37	75
	TOTALS	**190**	**380**

CONCRETE CURB AND GUTTER ITEMS

LOCATION	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0452 CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE D LF	601.0580 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R LF	601.0600 CONCRETE CURB PEDESTRIAN LF	650.5500 CONSTRUCTION STAKING CURB, GUTTER AND CURB & GUTTER LF
CATEGORY CODE 0010							
273'EB'+56 RT - 442'SB'+98 LT	123	554	58	595	--	--	58
274'WB'+13 LT - 524'SUL'+24 LT	--	382	--	355	--	--	--
524'SUL'+24 RT - 457'NB'+60 LT	--	1,235	--	350	--	--	--
442'NB'+97 RT - 311'EB'+07 RT	--	1,177	438	1,905	--	--	438
457'NB'+69 RT - 311'WB'+03 LT	--	308	239	3,295	--	--	239
278'EB'+48 LT - 281'EB'+12 LT	--	560	--	--	--	72	--
208'EB'+22 RT - 281'EB'+37 RT	--	205	--	--	--	26	--
283'EB'+13 LT - 311'EB'+07 LT	4,353	304	--	--	--	40	--
438'NB'+86 LT - 442'NB'+60 LT	--	749	--	--	--	--	--
442'NB'+97 LT - 447'NB'+25 LT	--	878	--	--	--	44	--
446'NB'+35 RT - 447'NB'+63 RT	65	202	--	--	--	18	--
449'NB'+13 LT - 450'NB'+50 LT	--	278	--	--	--	30	--
9'MM'+23 RT - 9'MM'+60 RT	--	48	--	--	--	20	--
10'RAB'+00 LT - 13'RAB'+70 LT	249	--	--	--	365	--	--
TOTALS	**4,790**	**6,880**	**735**	**6,500**	**365**	**250**	**735**

CONCRETE MEDIAN ITEMS

STATION	LOCATION	620.0100 CONCRETE CORRUGATED MEDIAN SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	COMMENTS
CATEGORY CODE 0010				
278;EB;+42 - 278'EB'+49	LT	--	60	TYPE 1
280'EB'+15 - 280'EB'+22	RT	--	60	TYPE 1
281'WB'+22 - 281'WB'+30	LT	--	32	TYPE 2
281'EB'+07 - 281'EB'+10	LT	--	24	TYPE 2
281'EB'+37 - 281'EB'+42	RT	--	24	TYPE 2
283'EB'+20 - 283'EB'+18	LT	--	24	TYPE 2
283'WB'+17 - 283'WB'+23	LT	--	24	TYPE 2
287'EB'+58 - 287'EB'+64	LT	--	48	TYPE 1
288'EB'+50 - 288'EB'+56	LT	--	56	TYPE 1
290'EB'+37 - 290'EB'+43	LT	--	56	TYPE 1
291'EB'+34 - 291'EB'+40	LT	--	48	TYPE 1
296'EB'+22 - 296'EB'+29	LT	--	64	TYPE 1
297'EB'+57 - 297'EB'+63	LT	--	48	TYPE 1
304'EB'+16 - 304'EB'+22	LT	--	48	TYPE 1
8'MM'+10 - 9'MM'+38	RT	1,150	--	MERCURY ENTRANCE
9'MM'+49 - 9'MM'+56	RT	--	32	TYPE 2
9'MM'+23 - 9'MM'+31	RT	--	52	TYPE 1
9'MM'+45 - 9'MM'+55	RT	--	32	TYPE 2
305'EB'+38 - 305'EB'+44	LT	--	48	TYPE 1
446'NB'+29 - 446'NB'+36	RT	--	68	TYPE 1
447'SB'+19 - 447'SB'+27	RT	--	32	TYPE 2
447'NB'+17 - 447'NB'+23	LT	--	24	TYPE 2
447'NB'+63 - 447'NB'+66	RT	--	20	TYPE 2
449'NB'+16 - 449'NB'+24	LT	--	32	TYPE 2
449'SB'+17 - 449'SB'+23	LT	--	24	TYPE 2
450'NB'+50 - 450'NB'+57	LT	--	40	TYPE 1
	TOTALS	**1,150**	**1,020**	

STORM SEWER PIPES

FROM	-	TO	LOCATION	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch LF	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch LF	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch LF	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch LF	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch LF	608.0354 Storm Sewer Pipe Reinforced Concrete Class III 54-Inch LF	608.0360 Storm Sewer Pipe Reinforced Concrete Class III 60-Inch LF	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch LF	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch LF	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch LF	608.0524 Storm Sewer Pipe Reinforced Concrete Class V 24-Inch LF	608.0530 Storm Sewer Pipe Reinforced Concrete Class V 30-Inch LF	608.6006 Storm Sewer Pipe Composite 6-Inch LF	608.6012 Storm Sewer Pipe Composite 12-Inch LF	610.0429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch LF	610.0434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch LF	JOINT TIES* EACH
105.1	-	105.2	VV-EB										6							
105.2	-	105.3	VV-EB										43							
105.3	-	105	VV-EB										5							
105	-	106	MILITARY-NB	89																
106.1	-	106.2	MILITARY-NB									38								
106.2	-	106.3	MILITARY-NB									7								
106.3	-	106	MILITARY-NB									23								
106.4	-	106	VV-EB									35								
106	-	107	MILITARY-NB	205																
107.1	-	107	VV-EB									32								
107	-	108	MILITARY-NB	133																
108.1	-	108.2	MILITARY-NB										28							
108.2	-	108.3	MILITARY-NB										7							
108.3	-	108	MILITARY-NB										39							
108.4	-	108	MILITARY-NB										10							
108.5	-	108.1	VV-EB									10								
108.6	-	108.4	VV-EB									10								
108	-	109	MILITARY-NB		313															
109.4	-	109	VV-EB									14								
109	-	110	MILITARY-NB				131													
109A.1	-	109A	VV-EB									8								
109A.2	-	109A	VV-EB	8																
109A	-	109	VV-EB	92																
110.1	-	110.2	MILITARY-NB									38								
110.2	-	110.3	MILITARY-NB									7								
110.3	-	110.4	MILITARY-NB									28								
110.4	-	110	MILITARY-NB									6								
110	-	111	MILITARY-NB				93													
111.1	-	111	MILITARY-NB								10									
111	-	112	MILITARY-NB				198													
112.1	-	112.2	MILITARY-NB										28							
112.2	-	112.3	MILITARY-NB										17							
112.3	-	112	MILITARY-NB										29							
112.4	-	112	MILITARY-NB										11							
112.5	-	112.1	VV-EB									10								
112.6	-	112.4	VV-EB									10								
112	-	113	MILITARY-NB					31												
113.1	-	113	MILITARY-NB										14							
113	-	114A	MILITARY-NB					200												
113A.1	-	113A	MILITARY-NB	12																
113A.2	-	113A	VV-EB									24								
113A	-	113	MILITARY-NB	77																
114.1	-	114	MILITARY-NB		22															
114.2	-	114	VV-EB								59									
114	-	115	MILITARY-NB					99												
114A.1	-	114A	VV-EB								22									
114A	-	114	MILITARY-NB					100												
115.1	-	115	VV-EB									104								
115.2	-	115	MILITARY-NB			10														
115	-	116	MILITARY-NB						183											

STORM SEWER PIPES

FROM	-	TO	LOCATION	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch LF	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch LF	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch LF	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch LF	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch LF	608.0354 Storm Sewer Pipe Reinforced Concrete Class III 54-Inch LF	608.0360 Storm Sewer Pipe Reinforced Concrete Class III 60-Inch LF	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch LF	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch LF	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch LF	608.0524 Storm Sewer Pipe Reinforced Concrete Class V 24-Inch LF	608.0530 Storm Sewer Pipe Reinforced Concrete Class V 30-Inch LF	608.6006 Storm Sewer Pipe Composite 6-Inch LF	608.6012 Storm Sewer Pipe Composite 12-Inch LF	610.0429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch LF	610.0434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch LF	JOINT TIES* EACH
116.1	-	116.2	MILITARY-NB										28								
116.2	-	116.3	MILITARY-NB										12								
116.3	-	116.4	MILITARY-NB										33								
116.4	-	116	MILITARY-NB										8								
116.5	-	116.1	VV-EB									10									
116.6	-	116.4	VV-EB									10									
116	-	117	MILITARY-NB						104												
117.1	-	117.2	MILITARY-NB									28									
117.2	-	117.3	MILITARY-NB									7									
117.3	-	117.4	MILITARY-NB									38									
117.4	-	117	MILITARY-NB									8									
117.5	-	117.6	VV-EB														13				
117.6	-	117.1	VV-EB									150									
117	-	118	MILITARY-NB						83												
118	-	119	MILITARY-NB						201												
118A.1	-	118A	VV-EB	7																	
118A	-	118	MILITARY-NB	27																	
119.1	-	119.2	VV-EB									86									
119.2	-	119.3	VV-EB									12									
119.3	-	119.4	MILITARY-NB										29								
119.4	-	119.5	MILITARY-NB										17								
119.5	-	119	MILITARY-NB										13								
119.6	-	119	MILITARY-NB										15								
119.7	-	119.6	VV-EB									10									
119	-	120	MILITARY-NB						213												
120.1	-	120.2	MILITARY-NB									10									
120.2	-	120.3	VV-EB									52									
120.3	-	120	VV-EB									29									
120	-	121	MILITARY-NB						188												
121.1	-	121	VV-EB					8													
121	-	213	VV-EB						205												
130.1	-	130	VV-EB													64					4
130.2	-	130	VV-EB													76					4
130	-	131	MILITARY-NB															196			
131.1	-	131.2	VV-EB									39									
131.2	-	131.3	MILITARY-NB									35									
131.3	-	131	MILITARY-NB									14									
131.4	-	131.5	MILITARY-NB									17									
131.5	-	131.6	MILITARY-NB									14									
131.6	-	131.7	MILITARY-NB									31									
131.7	-	131	MILITARY-NB									24									
131	-	120	MILITARY-NB															114			
160.1	-	160.2	MILITARY-NB									27									
160.2	-	160	MILITARY-NB									9									
160.3	-	160	MILITARY-NB									9									
160.4	-	160.3	VV-EB									31									
160	-	130	VV-EB	34																	
161.4	-	161.5	MILITARY-NB										33								4
205.1	-	205	MILITARY-NB									67									
205.2	-	205	MILITARY-NB									23									

STORM SEWER PIPES

FROM		TO	LOCATION	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch LF	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch LF	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch LF	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch LF	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch LF	608.0354 Storm Sewer Pipe Reinforced Concrete Class III 54-Inch LF	608.0360 Storm Sewer Pipe Reinforced Concrete Class III 60-Inch LF	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch LF	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch LF	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch LF	608.0524 Storm Sewer Pipe Reinforced Concrete Class V 24-Inch LF	608.0530 Storm Sewer Pipe Reinforced Concrete Class V 30-Inch LF	608.6006 Storm Sewer Pipe Composite 6-Inch LF	608.6012 Storm Sewer Pipe Composite 12-Inch LF	610.0429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch LF	610.0434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch LF	JOINT TIES* EACH
205	-	206	MILITARY-NB	171																
206.1	-	206	MILITARY-NB										9							
206	-	206B	MILITARY-NB	80																
206A.1	-	206A	VV-EB								25									
206A.2	-	206A	MILITARY-NB									14								
206A	-	206.1	MILITARY-NB										23							
206B.1	-	206B.2	MILITARY-NB									40								4
206B.2	-	206B	MILITARY-NB									14								
206B	-	207	MILITARY-NB	98																
207.1	-	207	MILITARY-NB									25								4
207.2	-	207.1	VV-EB									36								
207	-	210	MILITARY-NB	108																
208.1	-	208.2	VV-EB									20								
208.2	-	208	MILITARY-NB									21								
208.3	-	208.4	MILITARY-NB									8								
208.4	-	208.5	MILITARY-NB									23								
208.5	-	208	MILITARY-NB									16								
208	-	209	MILITARY-NB	67																
209.1	-	209.2	VV-EB										32							
209.2	-	209.3	VV-EB										38							
209.3	-	209	VV-EB										10							
209.4	-	209.2	VV-EB									10								
209	-	210	MILITARY-NB	174																
210.1	-	210.2	VV-EB													6				
210.2	-	210.3	VV-EB									56								
210.3	-	210	VV-EB									24								
210	-	211	MILITARY-NB		179															
211	-	214	MILITARY-NB		64															
213.1	-	213	VV-EB								16									
213	-	214	VV-EB							82										
214.1	-	214	VV-EB	18																
214	-	215	VV-EB							83										
215.1	-	215.2	VV-EB									37								
215.2	-	215.4	VV-EB									68								
215.3	-	215.4	MILITARY-NB									43								
215.4	-	215	MILITARY-NB									11								
215	-	216	VV-EB							113										
216.2	-	216.3	SULLIVAN								23									
216.3	-	216	SULLIVAN								34									
305.1	-	305	VV-EB										32							
305.2	-	305.1	VV-EB									10								
305.3	-	305	MILITARY-NB										31							
305.4	-	305.3	MILITARY-NB									29								
305.5	-	305.4	MILITARY-NB									13								
305.6	-	305	MILITARY-NB										23							
305	-	306	MILITARY-NB											57						
306.1	-	306.2	MILITARY-NB														13			
306.2	-	306	MILITARY-NB									23								
306	-	308	MILITARY-NB											288						
308.1	-	308.2	MILITARY-SB									10								

STORM SEWER PIPES

FROM		TO	LOCATION	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch LF	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch LF	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch LF	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch LF	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch LF	608.0354 Storm Sewer Pipe Reinforced Concrete Class III 54-Inch LF	608.0360 Storm Sewer Pipe Reinforced Concrete Class III 60-Inch LF	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch LF	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch LF	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch LF	608.0524 Storm Sewer Pipe Reinforced Concrete Class V 24-Inch LF	608.0530 Storm Sewer Pipe Reinforced Concrete Class V 30-Inch LF	608.6006 Storm Sewer Pipe Composite 6-Inch LF	608.6012 Storm Sewer Pipe Composite 12-Inch LF	610.0429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch LF	610.0434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch LF	JOINT TIES* EACH
308.2	-	308	MILITARY-NB									34								
308.3	-	308.4	MILITARY-NB									10								
308.4	-	308	MILITARY-NB									23								
308	-	309	MILITARY-NB												38					
309	-	310	MILITARY-NB												90					
310.1	-	310.2	VV-EB								14									
310.2	-	310	MILITARY-NB										34							
310.3	-	310.2	VV-EB								33									
310	-	311	MILITARY-NB												225					
311.1	-	311	VV-EB								8									
311	-	312	MILITARY-NB												14					
320	-	321	MILITARY-NB											25						
321.1	-	321	VV-EB									9								
321.2	-	321	OAK-PARK									30								
321	-	309	MILITARY-NB											38						
			TOTALS	**1400**	**578**	**10**	**422**	**430**	**1177**	**278**	**252**	**1851**	**657**	**63**	**712**	**19**	**13**	**140**	**310**	**20**

* NON-BID ITEM: FOR INFORMATION ONLY

PIPE UNDERDRAIN WRAPPED 6-INCH

STATION	LOCATION	612.0406 LF	COMMENTS
CATEGORY CODE 0010			
279'EB'+69	RT	50	LOW POINT (SEE DETAIL)
280'WB'+66	LT	50	LOW POINT (SEE DETAIL)
284'WB+60	LT	50	LOW POINT (SEE DETAIL)
284'EB'+67	RT	50	LOW POINT (SEE DETAIL)
288'EB'+60	RT	50	LOW POINT (SEE DETAIL)
288'WB'+60	LT	50	LOW POINT (SEE DETAIL)
294'EB'+75	RT	50	LOW POINT (SEE DETAIL)
294'WB'+75	LT	50	LOW POINT (SEE DETAIL)
302'EB'+10	RT	50	LOW POINT (SEE DETAIL)
302'WB'+10	LT	50	LOW POINT (SEE DETAIL)
450'SB'+76	LT	50	LOW POINT (SEE DETAIL)
450'NB'+78	RT	50	LOW POINT (SEE DETAIL)
454'NB'+23	RT	50	LOW POINT (SEE DETAIL)
454'SB'+23	LT	50	LOW POINT (SEE DETAIL)
523'SUL'+40	LT & RT	100	LOW POINT (SEE DETAIL)
10'RAB'+34	LT	50	(SEE DETAIL)
11'RAB'+00	LT	50	LOW POINT (SEE DETAIL)
	TOTAL	**900**	

LANDSCAPING ITEMS

STATION - STATION	625.0100 TOPSOIL SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEED MIX NO. 40 LB	SPV.0035.001 PLANTING MIXTURE CY	SPV.0085.001 LOW MAINTENANCE SEED MIX LB	SPV.0120.001 WATER FOR SEEDED AREAS MGAL	SPV.0180.001 PREPARING TOPSOIL FOR LAWN TYPE TURF SY
CATEGORY CODE 0010									
271'EB'+89 RT - 442'SB'+97 LT	3,342	2,868	474	2.0	60	--	--	56	2,868
272'WB'+00 LT - 524'SUL'+50 LT	3,773	3,773	--	2.0	68	--	--	64	3,773
524'SUL'+50 RT - 457'NB'+60 LT	4,224	4,224	--	3.0	76	--	--	71	4,224
442'NB'+97 RT - 311'EB'+84 RT	6,816	6,445	371	4.0	123	--	--	115	6,445
457'NB'+72 RT - 314'WB'+45 LT	7,455	7,455	--	5.0	134	--	--	126	7,455
278'EB'+49 LT - 280'EB'+45 LT	371	371	--	--	--	--	17	6	371
283'EB'+72 LT - 311'EB'+07 LT	1,999	1,999	--	1.0	--	--	90	34	1,999
438'NB'+86 LT - 446'NB'+37 LT	1,131	1,131	--	1.0	--	--	51	19	1,131
10'RAB'+00 LT - 13'RAB'+74 LT	--	--	--	--	--	120	--	--	--
UNDISTRIBUTED	7,289	7,084	205	5.0	119	--	42	119	7,034
TOTALS	**36,400**	**35,350**	**1,050**	**23.0**	**580**	**120**	**200**	**610**	**35,300**

NOTES: 1. LOW MAINTENANCE SEED MIX SOW RATE CALCULATED AT 5 LB PER 1000 SF

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	520.8000 Concrete Collars for Pipe EACH	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch EACH	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch EACH	523.0529 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch EACH	611.0530 Manhole Covers Type J EACH	611.0612 Inlet Covers Type C EACH	611.0624 Inlet Covers Type H EACH	611.0639 Inlet Covers Type H-S EACH	611.0642 Inlet Covers Type MS EACH	611.0652 Inlet Covers Type T EACH	611.0666 Inlet Covers Type Z EACH	SPV.0060.001 Inlet Covers Type HC EACH	611.1230 Catch Basins 2x3-FT EACH	611.2004 Manholes 4-FT Diameter EACH	611.2005 Manholes 5-FT Diameter EACH	611.2006 Manholes 6-FT Diameter EACH	611.2008 Manholes 8-FT Diameter EACH	611.2504 Manholes Variable Tee 4-FT Diameter EACH	611.3003 Inlets 3-FT Diameter EACH	611.3225 Inlets 2x2.5-FT EACH	611.3230 Inlets 2x3-FT EACH	611.3901 Inlets Median 1 Grate EACH	611.3902 Inlets Median 2 Grate EACH	611.8110 Adjusting Manhole Covers EACH	611.8115 Adjusting Inlet Covers EACH	611.9710 Salvaged Inlet Covers EACH	611.9800.S Pipe Grates EACH	633.5200 Markers Culvert End EACH	SPV.0060.002 Connect to Existing Storm Sewer Lateral EACH	SPV.0060.003 Connect to Existing Storm Sewer Structure EACH	650.4000 Construction Staking Storm Sewer EACH
105	306+37	22' RT	VV-EB					1									1															1
105.1	306+80	51.1' RT	VV-EB	1																												
105.2	306+75	48' RT	VV-EB					1									1															1
105.3	306+37	27.5' RT	VV-EB							1														1							1
106	305+48	22' RT	VV-EB					1									1															1
106.1	305+41	27.5' LT	VV-WB							1														1							1
106.2	305+41	10.5' RT	VV-WB											1								1									1
106.3	305+48	0.5' LT	VV-EB											1								1									1
106.4	305+46	57.1' RT	VV-EB								1													1							1
107	303+43	28' RT	VV-EB					1											1													1
107.1	303+50	59' RT	VV-EB	1																												
108	302+10	28' RT	VV-EB					1											1													1
108.1	302+03	27.5' LT	VV-WB								1													1							1
108.2	302+03	0.5' RT	VV-WB											1								1									1
108.3	302+10	10.5' LT	VV-EB											1								1									1
108.4	302+10	38.5' RT	VV-EB								1													1							1
108.5	302+13	27.5' LT	VV-WB								1													1							1
108.6	302+20	38.5' RT	VV-EB								1													1							1
109	298+97	33' RT	VV-EB					1											1													1
109.4	298+98	47' RT	VV-EB	1																												
110	297+66	33' RT	VV-EB					1											1													1
110.1	297+59	27.5' LT	VV-WB							1														1							1
110.2	297+59	10.5' RT	VV-WB											1								1									1
110.3	297+66	0.5' LT	VV-EB											1								1									1
110.4	297+66	27.5' RT	VV-EB							1														1							1
111	296+73	33' RT	VV-EB					1											1													1
111.1	296+75	42.8' RT	VV-EB	1																												
112	294+75	28' RT	VV-EB					1													1											1
112.1	294+68	27.5' LT	VV-WB								1													1							1
112.2	294+68	0.5' RT	VV-WB											1								1									1
112.3	294+75	0.5' LT	VV-EB											1								1									1
112.4	294+75	38.5' RT	VV-EB								1													1							1
112.5	294+78	27.5' LT	VV-WB								1													1							1
112.6	294+85	38.5' RT	VV-EB								1													1							1
113	294+44	28' RT	VV-EB					1													1											1
113.1	294+47	41.9' RT	VV-EB	1																												
114	291+44	24.5' RT	VV-EB					1													1											1
114.1	291+48	45.8' RT	VV-EB	1																												
114.2	291+38	83.4' RT	VV-EB						1													1									1
115	290+45	36' RT	VV-EB					1													1											1
115.1	290+37	47' LT	VV-WB									1													1							1
115.2	290+46	45.9' RT	VV-EB	1																												
116	288+60	36' RT	VV-EB					1													1											1
116.1	288+52	27.5' LT	VV-WB								1													1							1
116.2	288+52	0.5' RT	VV-WB											1								1									1
116.3	288+60	5.1' LT	VV-EB											1								1									1
116.4	288+60	27.5' RT	VV-EB								1													1							1
116.5	288+61	27.5' LT	VV-WB								1													1							1
116.6	288+70	27.5' RT	VV-EB								1													1							1
117	287+55	36' RT	VV-EB					1													1											1
117.1	287+46	27.5' LT	VV-WB							1														1							1
117.2	287+46	0.5' RT	VV-WB											1								1									1
117.3	287+55	10.5' LT	VV-EB											1								1									1
117.4	287+55	27.5' RT	VV-EB							1														1							1
117.5	285+97	41' LT	VV-WB																											1		
117.6	285+97	27.5' LT	VV-WB							1														1							1
118	286+72	36' RT	VV-EB					1													1											1
119	284+67	12' RT	VV-EB					1													1											1
119.1	283+64	74.1' LT	VV-WB						1													1									1
119.2	284+41	29.7' LT	VV-WB								1													1							1

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	520.8000 Concrete Collars for Pipe EACH	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch EACH	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch EACH	523.0529 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch EACH	611.0530 Manhole Covers Type J EACH	611.0612 Inlet Covers Type C EACH	611.0624 Inlet Covers Type H EACH	611.0639 Inlet Covers Type H-S EACH	611.0642 Inlet Covers Type MS EACH	611.0652 Inlet Covers Type T EACH	611.0666 Inlet Covers Type Z EACH	SPV.0060.001 Inlet Covers Type HC EACH	611.1230 Catch Basins 2x3-FT EACH	611.2004 Manholes 4-FT Diameter EACH	611.2005 Manholes 5-FT Diameter EACH	611.2006 Manholes 6-FT Diameter EACH	611.2008 Manholes 8-FT Diameter EACH	611.2504 Manholes Variable Tee 4-FT Diameter EACH	611.3003 Inlets 3-FT Diameter EACH	611.3225 Inlets 2x2.5-FT EACH	611.3230 Inlets 2x3-FT EACH	611.3901 Inlets Median 1 Grate EACH	611.3902 Inlets Median 2 Grate EACH	611.8110 Adjusting Manhole Covers EACH	611.8115 Adjusting Inlet Covers EACH	611.9710 Salvaged Inlet Covers EACH	611.9800.S Pipe Grates EACH	633.5200 Markers Culvert End EACH	SPV.0060.002 Connect to Existing Storm Sewer Lateral EACH	SPV.0060.003 Connect to Existing Storm Sewer Structure EACH	650.4000 Construction Staking Storm Sewer EACH
119.3	284+53	28.9' LT	VV-WB								1												1										1
119.4	284+51	0.5' RT	VV-WB											1								1											1
119.5	284+67	0.5' LT	VV-EB											1								1											1
119.6	284+67	27.5' RT	VV-EB								1												1										1
119.7	284+57	27.5' RT	VV-EB								1												1										1
120	10+23	29' LT	RAB-MILITARY					1													1												1
120.1	11+00	1.7' LT	RAB-MILITARY										1											1									1
120.2	10+90	1.7' LT	RAB-MILITARY										1											1									1
120.3	10+34	1.7' LT	RAB-MILITARY										1											1									1
121	280+66	55.2' LT	VV-WB					1													1												1
130	445+16	11.2' LT	MILITARY-NB					1													1												1
130.1	444+91	48' LT	MILITARY-SB				1																							1	1		1
130.2	444+89	58.9' RT	MILITARY-NB				1																							1	1		1
131	447+07	23.9' LT	MILITARY-NB					1													1												1
131.1	446+92	66.8' LT	MILITARY-SB									1													1								1
131.2	447+12	33.5' LT	MILITARY-SB												1								1										1
131.3	447+17	1.5' RT	MILITARY-SB							1													1										1
131.4	446+98	52.8' RT	MILITARY-NB								1												1										1
131.5	446+95	35.6' RT	MILITARY-NB								1												1										1
131.6	446+93	21.4' RT	MILITARY-NB												1								1										1
131.7	447+16	1.5' LT	MILITARY-NB							1													1										1
160	444+81	11' LT	MILITARY-NB					1												1													1
160.1	444+85	25.5' LT	MILITARY-SB							1													1										1
160.2	444+81	1.5' RT	MILITARY-SB							1													1										1
160.3	444+81	1.5' LT	MILITARY-NB							1													1										1
160.4	444+80	29.8' RT	MILITARY-NB							1													1										1
161.1	443+00	25.3' LT	MILITARY-SB																							1							
161.2	442+99	1.8' RT	MILITARY-SB							1																							
161.3	443+00	1.5' LT	MILITARY-NB																							1							
161.4	443+00	25.5' RT	MILITARY-NB																							1							
161.5	443+09	57.5' RT	MILITARY-NB		1																									1	1		1
162.1	439+82	18.2' LT	MILITARY-NB												1																		
162.2	439+81	1.1' LT	MILITARY-NB												1																		
205	273+40	20' RT	VV-EB					1										1															1
205.1	273+38	37' LT	VV-WB									2													1								1
205.2	273+40	43' RT	VV-EB									2													1								1
206	275+14	24.1' RT	VV-EB					1												1													1
206.1	275+12	33' RT	VV-EB								1												1										1
207	276+93	7' LT	VV-EB					1											1														1
207.1	277+00	17.6' LT	VV-WB							1													1										1
207.2	277+00	54' LT	VV-WB	1																										1	1		1
208	280+39	17.9' LT	VV-EB					1										1															1
208.1	280+66	18.5' LT	VV-WB												1								1										1
208.2	280+66	1.5' RT	VV-WB								1												1										1
208.3	280+23	23.3' RT	VV-EB							1													1										1
208.4	280+24	15.8' RT	VV-EB							1													1										1
208.5	280+39	1.5' LT	VV-EB							1													1										1
209	279+72	11' LT	VV-EB					1												1													1
209.1	279+57	64.4' RT	VV-EB						1													1											1
209.2	279+72	36.3' RT	VV-EB								1												1										1
209.3	279+72	1.5' LT	VV-EB								1												1										1
209.4	279+82	38.3' RT	VV-EB								1												1										1
210	278+00	7' LT	VV-EB					1											1														1
210.1	277+51	53.5' RT	VV-EB																													1	
210.2	277+51	47.5' RT	VV-EB						1													1											1
210.3	278+00	16.5' RT	VV-EB							1													1										1
211	521+79	12.1' RT	SULLIVAN					1											1														1
213	521+54	112.7' RT	SULLIVAN						1												1												1
214	522+09	66.5' RT	SULLIVAN					1													1												1
214.1	522+10	84.1' RT	SULLIVAN									2													1								1

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	520.8000 Concrete Collars for Pipe EACH	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch EACH	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch EACH	523.0529 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch EACH	611.0530 Manhole Covers Type J EACH	611.0612 Inlet Covers Type C EACH	611.0624 Inlet Covers Type H EACH	611.0639 Inlet Covers Type H-S EACH	611.0642 Inlet Covers Type MS EACH	611.0652 Inlet Covers Type T EACH	611.0666 Inlet Covers Type Z EACH	SPV.0060.001 Inlet Covers Type HC EACH	611.1230 Catch Basins 2x3-FT EACH	611.2004 Manholes 4-FT Diameter EACH	611.2005 Manholes 5-FT Diameter EACH	611.2006 Manholes 6-FT Diameter EACH	611.2008 Manholes 8-FT Diameter EACH	611.2504 Manholes Variable Tee 4-FT Diameter EACH	611.3003 Inlets 3-FT Diameter EACH	611.3225 Inlets 2x2.5-FT EACH	611.3230 Inlets 2x3-FT EACH	611.3901 Inlets Median 1 Grate EACH	611.3902 Inlets Median 2 Grate EACH	611.8110 Adjusting Manhole Covers EACH	611.8115 Adjusting Inlet Covers EACH	611.9710 Salvaged Inlet Covers EACH	611.9800.S Pipe Grates EACH	633.5200 Markers Culvert End EACH	SPV.0060.002 Connect to Existing Storm Sewer Lateral EACH	SPV.0060.003 Connect to Existing Storm Sewer Structure EACH	650.4000 Construction Staking Storm Sewer EACH
215	522+74	34' RT	SULLIVAN					1												1													1
215.1	523+37	18.2' LT	SULLIVAN								1												1										1
215.2	523+37	18.6' RT	SULLIVAN								1												1										1
215.3	522+74	20.7' LT	SULLIVAN							1													1										1
215.4	522+74	22.7' RT	SULLIVAN							1													1										1
216	523+79	20.1' RT	SULLIVAN																							1					1		
216.1	523+79	20.1' RT	SULLIVAN																												1		
216.3	523+52	0' RT	SULLIVAN					1										1															1
305	450+76	6' LT	MILITARY-NB					1												1													1
305.1	450+74	18.3' LT	MILITARY-SB								1					1																	1
305.2	450+65	19.1' LT	MILITARY-SB								1					1																	1
305.3	450+47	1.5' RT	MILITARY-SB							1						1																	1
305.4	450+19	1.5' RT	MILITARY-SB							1						1																	1
305.5	450+19	1.5' LT	MILITARY-NB							1						1																	1
305.6	450+76	16.5' RT	MILITARY-NB								1					1																	1
306	451+32	6' LT	MILITARY-NB					1												1													1
306.1	451+32	29' RT	MILITARY-NB																												1		
306.2	451+32	16.5' RT	MILITARY-NB							1						1																	1
308	454+20	6' LT	MILITARY-NB					1												1													1
308.1	454+23	29.7' LT	MILITARY-SB								1					1																	1
308.2	454+14	27.5' LT	MILITARY-SB								1					1																	1
308.3	454+10	16.5' RT	MILITARY-NB								1					1																	1
308.4	454+20	16.5' RT	MILITARY-NB								1					1																	1
309	454+58	6' LT	MILITARY-NB					1												1													1
310	455+48	6' LT	MILITARY-NB					1												1													1
310.1	455+51	41.8' LT	MILITARY-SB	1																													
310.2	455+49	27.5' LT	MILITARY-SB							1						1																	1
310.3	455+16	27.5' LT	MILITARY-SB								1					1																	1
311	457+74	0' RT	MILITARY-NB					1												1													1
312	457+76	14' RT	MILITARY-NB																												1		
320	30+63	9.8' RT	OAK-PARK	1																													
321	30+38	9.8' RT	OAK-PARK					1												1													1
321.1	30+41	17.9' RT	OAK-PARK								1					1																	1
321.2	30+38	19.8' LT	OAK-PARK								1					1																	1
109A	299+19	35.9' LT	VV-WB					1												1													1
109A.1	299+12	38.1' LT	VV-WB	1																													
109A.2	299+24	42.1' LT	VV-WB	1																													
113A	294+39	31' LT	VV-WB					1												1													1
113A.1	294+45	41' LT	VV-WB	1																													
113A.2	294+24	49.2' LT	VV-WB									1														1							1
114A	292+44	25.8' RT	VV-EB					1														1											1
114A.1	292+44	48' RT	VV-EB						1														1										1
118A	286+72	63.3' RT	VV-EB						1											1													1
118A.1	286+72	69.9' RT	VV-EB	1																													
206A	275+17	56' RT	VV-EB						1									1															1
206A.1	275+20	80.9' RT	VV-EB	1																													
206A.2	275+32	53.1' RT	VV-EB								1														1								1
206B	275+97	20' RT	VV-EB					1												1													1
206B.1	275+93	73.3' RT	VV-EB		1																												1
206B.2	275+93	33.1' RT	VV-EB								1														1								1
		TOTALS		**14**	**2**	**1**	**2**	**42**	**8**	**26**	**38**	**9**	**3**	**14**	**5**	**15**	**7**	**3**	**19**	**15**	**1**	**19**	**3**	**51**	**3**	**3**	**1**	**3**	**2**	**4**	**4**	**3**	**3**	**144**

REMARKS
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	MISCELLANEOUS QUANTITIES	SHEET 221	E

FILE NAME : 030201_mq.ppt PLOT DATE : PLOT BY : gaajs PLOT NAME : PLOT SCALE : 1:1

DUST CONTROL SURFACE TREATMENT

LOCATION	623.0200 SY
CATEGORY CODE 0010	
PROJECT 4986-00-22	38,800
TOTAL	**38,800**

SILT FENCE ITEMS

STATION - STATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
CATEGORY CODE 0010		
274'EB'+04 RT - 275'EB'+19 RT	173	173
521'SUL'+57 RT - 280'WB'+06 LT	265	265
280'WB'+79 LT - 453'SB'+18 LT	452	452
294'WB'+33 LT - 11'MM'+93 LT	1,088	1,088
297'EB'+11 RT - 304'EB'+60 RT	787	787
11'MM'+81 RT - 309'WB'+00 LT	508	508
305'EB'+46 RT - 307'EB'+90 RT	250	250
308'EB'+29 RT - 311'EB'+85 RT	385	385
311'WB'+78 LT - 314'WB'+64 LT	260	260
UNDISTRIBUTED	1,042	1,042
TOTALS	**5,210**	**5,210**

MOBILIZATIONS EROSION CONTROL ITEMS

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CATEGORY CODE 0010		
PROJECT 4986-00-22	15	10
TOTALS	**15**	**10**

INLET PROTECTION ITEMS

LOCATION	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
CATEGORY CODE 0010				
EXISTING STRUCTURES	15	7	26	--
PROPOSED STRUCTURES	12	5	38	48
UNDISTRIBUTED	8	3	16	12
TOTALS	**35**	**15**	**80**	**60**

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 LF
CATEGORY CODE 0010		
311'WB'+50	LT	12
453'SB'+00	LT	12
524'SUL'+75	LT & RT	24
UNDISTRIBUTED		12
TOTAL		**60**

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
CATEGORY CODE 0010		
273'EB'+71	RT	2
277'WB'+00	LT	2
279'EB'+65	RT	2
444'NB'+86	RT	10
444'SB'+88	LT	10
448'NB'+71	RT	2
451'NB'+33	RT	5
59'PR'+14	RT	2
59'PR'+18	RT	1
521'SUL'+88	RT	10
521'SUL'+74	RT	2
522'SUL'+12	RT	3
TOTAL		**51**

TRACKING PAD

LOCATION	628.7560 EACH
PROJECT 4986-00-22	8
TOTAL	**8**

ROCK BAGS

STATION	628.7570 EACH
CATEGORY CODE 0010	
UNDISTRIBUTED	50
TOTAL	**50**

FILE NAME : 030201_mq.ppt PLOT DATE : PLOT BY : gaajs PLOT NAME : PLOT SCALE : 1:1

SIGNING ITEMS

SIGN NUMBER	LOCATION	SIGN CODE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614* POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616* POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618* POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	COMMENTS
CATEGORY CODE 0010												
301A	CTH VV	W2-6	30X30	--	--	1	--	--	--	--	6.25	--
301B	"	W13-1	18X18	--	--	--	--	--	--	--	2.25	--
302	CTH VV	R4-4	36X30	--	1	--	--	7.50	--	--	--	--
303	PRIVATE ROAD	R1-1	30X30	--	1	--	--	5.18	--	--	--	--
304	CTH VV	R2-1	24X30	--	1	--	--	5.00	--	--	--	35 MPH
305	SULLIVAN DRIVE	J13-1	24X45	--	--	1	--	7.50	--	--	--	--
306	SULLIVAN DRIVE	R1-1	30X30	--	1	--	--	5.18	--	--	--	--
307	CTH VV	R4-7	24X30	--	1	--	--	5.00	--	--	--	--
308	CTH VV	R3-8DD	36X30	--	1	--	--	7.50	--	--	--	--
309	CTH VV	D1-1	60X15	--	2	--	--	6.25	--	--	--	MILITARY RD
310A	CTH VV	R3-6XL	42X48	--	--	--	--	14.00	--	--	--	MOUNTED TO OVERHEAD SIGN SUPPORT
310B	"	R3-5R	42X48	--	--	--	--	14.00	--	--	--	"
311	CTH VV	R6-2R	24X30	--	1	--	--	5.00	--	--	--	--
312	CTH VV	W12-1D	24X24	1	--	--	--	--	--	--	4.00	--
313	CTH VV	D1-2	72X30	--	2	--	--	15.00	--	--	--	VV NORTH, PIONEER RD [ARROW TILT RIGHT]
314A	CTH VV	R1-2	36X31	--	--	1	--	3.88	--	--	--	--
314B	"	R6-2R	24X30	--	--	--	--	5.00	--	--	--	--
315A	CTH VV	R1-2	36X31	--	1	--	--	3.88	--	--	--	--
315B	"	R1-54	24X15	--	--	--	--	2.50	--	--	--	--
316	CTH VV	D1-2	72X30	--	2	--	--	15.00	--	--	--	TO IH-41, MILITARY RD [ARROW TILT RIGHT]
317A	ROUNDABOUT	R6-1R	36X12	2	--	--	--	3.00	--	--	--	--
317B	"	R6-4B	60X24	--	--	--	--	10.00	--	--	--	--
318A	ROUNDABOUT	R6-1R	36X12	2	--	--	--	3.00	--	--	--	--
318B	"	R6-4B	60X24	--	--	--	--	10.00	--	--	--	--
319A	ROUNDABOUT	R6-1R	36X12	2	--	--	--	3.00	--	--	--	--
319B	"	R6-4B	60X24	--	--	--	--	10.00	--	--	--	--
320A	ROUNDABOUT	R6-1R	36X12	2	--	--	--	3.00	--	--	--	--
320B	"	R6-4B	60X24	--	--	--	--	10.00	--	--	--	--
321A	MILITARY ROAD	R1-2	36X31	--	1	--	--	3.88	--	--	--	--
321B	"	R1-54	24X15	--	--	--	--	2.50	--	--	--	--
322A	MILITARY ROAD	R1-2	36X31	--	--	1	--	3.88	--	--	--	--
322B	"	R6-2R	24X30	--	--	--	--	5.00	--	--	--	--
323	MILITARY ROAD	D1-1	72X15	--	2	--	--	7.50	--	--	--	MILITARY RD [ARROW TILT RIGHT]
324A	MILITARY ROAD	R1-2	36X31	--	--	1	--	3.88	--	--	--	--
324B	"	R6-2R	24X30	--	--	--	--	5.00	--	--	--	--
325A	MILITARY ROAD	R1-2	36X31	--	1	--	--	3.88	--	--	--	--
325B	"	R1-54	24X15	--	--	--	--	2.50	--	--	--	--
326	MILITARY ROAD	R1-2	36X31	--	1	--	--	3.88	--	--	--	--
327	CTH VV	D1-2	72X30	--	2	--	--	15.00	--	--	--	VV SOUTH, PIONEER RD [ARROW TILT RIGHT]
328A	CTH VV	R1-2	36X31	--	1	--	--	3.88	--	--	--	--
328B	"	R1-54	24X15	--	--	--	--	2.50	--	--	--	--
329A	CTH VV	R1-2	36X31	--	--	1	--	3.88	--	--	--	--
329B	"	R6-2R	24X30	--	--	--	--	5.00	--	--	--	--
330	CTH VV	R6-2R	24X30	--	1	--	--	5.00	--	--	--	--
331	CTH VV	R6-2R	24X30	--	1	--	--	5.00	--	--	--	--
332	CTH VV	R2-1	24X30	--	1	--	--	5.00	--	--	--	35 MPH
333A	CTH VV	R3-5XL	42X48	--	--	--	--	14.00	--	--	--	MOUNTED TO OVERHEAD SIGN SUPPORT
333B	"	R3-6R	42X48	--	--	--	--	14.00	--	--	--	"
334	CTH VV	J22-1	24X57	--	--	1	--	9.50	--	--	--	TO, IH 41, LEFT AHEAD ARROW
335	CTH VV	R3-8EE	36X30	--	1	--	--	7.50	--	--	--	--
336	CTH VV	W54-56	30X30	--	--	1	--	--	--	--	6.25	--
337	CTH VV	R4-7	24X30	--	1	--	--	5.00	--	--	--	--
338A	CTH VV	W2-6	30X30	--	--	1	--	--	--	--	6.25	--
338B	"	W13-1	18X18	--	--	--	--	--	--	--	2.25	--
339	CTH VV	D1-1	60X15	--	2	--	--	6.25	--	--	--	MILITARY RD
340	CTH VV	R4-7	24X30	--	1	--	--	5.00	--	--	--	--
341	CTH VV	R4-4	36X30	--	1	--	--	7.50	--	--	--	--
342	CTH VV	R4-7	24X30	--	1	--	--	5.00	--	--	--	--

SIGNING ITEMS

SIGN NUMBER	LOCATION	SIGN CODE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614* POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616* POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618* POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	COMMENTS
CATEGORY CODE 0010												
343	CTH VV	R2-1	24X30	--	1	--	--	5.00	--	--	--	35 MPH
344	CTH VV	R4-4	36X30	--	1	--	--	7.50	--	--	--	--
345	CTH VV	R2-1	24X30	--	1	--	--	5.00	--	--	--	35 MPH
346	CTH VV	R1-1F	30X30	--	--	--	--	--	5.18	--	--	MOUNT TO TRAFFIC SIGNAL
347	CTH VV	R1-1F	30X30	--	--	--	--	--	5.18	--	--	MOUNT TO TRAFFIC SIGNAL
348A	CTH VV	R10-50L	30X36	--	--	--	--	7.50	--	--	--	MOUNT TO TRAFFIC SIGNAL
348B	"	R4-7	24X30	--	--	--	--	5.00	--	--	--	"
349	MERCURY MARINE ENTRANCE	R1-1F	30X30	--	--	--	--	--	5.18	--	--	MOUNT TO TRAFFIC SIGNAL
350	MERCURY MARINE ENTRANCE	R10-50L	30X36	--	--	--	--	7.50	--	--	--	MOUNT TO TRAFFIC SIGNAL ARM
351	MERCURY MARINE ENTRANCE	R1-1F	30X30	--	--	--	--	--	5.18	--	--	MOUNT TO TRAFFIC SIGNAL
352	MERCURY MARINE ENTRANCE	R1-1F	30X30	--	--	--	--	--	5.18	--	--	MOUNT TO TRAFFIC SIGNAL
353A	CTH VV	R10-50L	30X36	--	--	--	--	7.50	--	--	--	MOUNT TO TRAFFIC SIGNAL
353B	"	R4-7	24X30	--	--	--	--	5.00	--	--	--	"
354	CTH VV	R1-1F	30X30	--	--	--	--	--	5.18	--	--	MOUNT TO TRAFFIC SIGNAL
355	CTH VV	R1-1F	30X30	--	--	--	--	--	5.18	--	--	MOUNT TO TRAFFIC SIGNAL
356	CTH VV	R6-2R	24X30	--	1	--	--	5.00	--	--	--	--
357	CTH VV	J22-1	24X57	--	--	--	1.	9.50	--	--	--	TO, IH 41, RIGHT AHEAD ARROW
358A	MILITARY ROAD	W2-6	30X30	--	--	1	--	--	--	--	6.25	--
358B	"	W13-1	18X18	--	--	--	--	--	--	--	2.25	--
359A	MILITARY ROAD	W2-6	30X30	--	--	1	--	--	--	--	6.25	--
359B	"	W13-1	18X18	--	--	--	--	--	--	--	2.25	--
360	MILITARY ROAD	R3-8DD	36X30	--	1	--	--	7.50	--	--	--	--
361	MILITARY ROAD	D1-1	60X15	--	2	--	--	6.25	--	--	--	PIONEER RD
362	MILITARY ROAD	D1-55-L	96X24	--	2	--	--	16.00	--	--	--	NATIONAL GUARD ARMORY (LEFT ARROW)
363A	MILITARY ROAD	R3-6XL	42X48	--	--	--	--	14.00	--	--	--	MOUNTED TO OVERHEAD SIGN SUPPORT
363B	"	R3-5R	42X48	--	--	--	--	14.00	--	--	--	"
364	MILITARY ROAD	R2-1	24X30	--	1	--	--	5.00	--	--	--	35 MPH
365A	MILITARY ROAD	R3-6R	42X48	--	--	--	--	14.00	--	--	--	MOUNTED TO OVERHEAD SIGN SUPPORT
365B	"	R3-6XL	42X48	--	--	--	--	14.00	--	--	--	"
366	MILITARY ROAD	R6-2R	24X30	--	1	--	--	5.00	--	--	--	--
367	MILITARY ROAD	R3-8CC	36X30	--	1	--	--	7.50	--	--	--	--
368	MILITARY ROAD	R2-1	24X30	--	1	--	--	5.00	--	--	--	25 MPH
369	MILITARY ROAD	D1-55-R	96X24	--	2	--	--	16.00	--	--	--	NATIONAL GUARD ARMORY (RIGHT ARROW)
370A	MILITARY ROAD	J1-1	24X39	--	1	1	--	6.50	--	--	--	JCT, CTH VV
370B	"	D1-1	60X15	--	--	--	--	6.25	--	--	--	PIONEER RD
371A	MILITARY ROAD	W2-6	30X30	--	--	1	--	--	--	--	6.25	--
371B	"	W13-1	18X18	--	--	--	--	--	--	--	2.25	--
372	MILITARY ROAD	R7-53D	18X24	--	--	1	--	3.00	--	--	--	--
373	MILITARY ROAD	R10-64	30X36	--	1	--	--	7.50	--	--	--	--
374	ROGERSVILLE ROAD	W5-56	18X18	1	--	--	--	--	--	2.25	--	--
375	ROGERSVILLE ROAD	W5-56	18X18	1	--	--	--	--	--	2.25	--	--
376	ROGERSVILLE ROAD	W5-56	18X18	1	--	--	--	--	--	2.25	--	--
377	ROGERSVILLE ROAD	W5-56	18X18	1	--	--	--	--	--	2.25	--	--
378	OAK PARK AVENUE	R1-1	30X30	--	1	--	--	5.18	--	--	--	--
379	OAK PARK AVENUE	R7-53D	18X24	--	1	--	--	3.00	--	--	--	--
380	MILITARY ROAD	R7-53D	18X24	--	1	--	--	3.00	--	--	--	--
381	MILITARY ROAD	R4-4	36X30	--	1	--	--	7.50	--	--	--	--
382	SULLIVAN DRIVE	R3-8F	36X30	--	1	--	--	7.50	--	--	--	--
401	MULTI-USE PATH	R1-1	18X18	1	--	--	--	1.86	--	--	--	--
402	MULTI-USE PATH	R1-1	18X18	1	--	--	--	1.86	--	--	--	--
403	MULTI-USE PATH	R1-1	18X18	1	--	--	--	1.86	--	--	--	--
404	MULTI-USE PATH	R1-1	18X18	1	--	--	--	1.86	--	--	--	--
405	MULTI-USE PATH	R1-1	18X18	1	--	--	--	1.86	--	--	--	--
406	MULTI-USE PATH	R1-1	18X18	1	--	--	--	1.86	--	--	--	--
407	MULTI-USE PATH	R1-1	18X18	1	--	--	--	1.86	--	--	--	--
408	MULTI-USE PATH	R1-1	18X18	1	--	--	--	1.86	--	--	--	--
		TOTALS		**21**	**54**	**14**	**1**	**593.34**	**36.26**	**9.00**	**52.75**	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

EXISTING SIGNING ITEMS

SIGN NUMBER	EXISTING SIGN STATION	LOCATION	EXISTING ROADWAY	634.0614* POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616* POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618* POSTS WOOD 4X6-INCH X 18-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CATEGORY CODE 0010											
101	270'EB'+60	RT	CTH VV	--	--	--	--	1	1	--	--
102	275'WB'+44	LT	CTH VV	--	--	--	--	1	1	--	--
103	59'PR'+24	RT	PRIVATE ROAD	--	--	--	--	1	1	--	--
104	277'WB'+24	LT	ROGERSVILLE ROAD	--	--	--	--	1	1	--	--
105	277'WB'+22	LT	ROGERSVILLE ROAD	--	--	--	--	1	1	--	--
106	277'WB'+17	LT	ROGERSVILLE ROAD	--	--	--	--	1	1	--	--
107	277'EB'+89	RT	CTH VV	--	--	--	--	1	1	--	--
108	281'EB'+52	LT	CTH VV	--	--	--	--	1	1	--	--
109	281'EB'+43	LT	CTH VV	--	--	--	--	1	1	--	--
110	282'EB'+92	LT	CTH VV	--	--	--	--	1	1	--	--
111	448'NB'+04	LT	MILITARY ROAD	--	--	--	--	1	1	--	--
112	447'NB'+59	RT	MILITARY ROAD	--	--	--	--	1	1	--	--
113	447'NB'+96	RT	MILITARY ROAD	--	--	--	--	1	1	--	--
114	282'WB'+62	LT	CTH VV	--	--	--	--	1	1	--	--
115	22'WB'+39	LT	CTH VV	--	--	--	--	1	1	--	--
116	284'EB'+29	LT	CTH VV	--	--	--	--	1	1	--	--
117	284'EB'+59	RT	CTH VV	--	--	--	--	1	1	--	--
118	286'EB'+41	RT	CTH VV	--	--	--	--	1	1	--	--
119	286'WB'+71	LT	CTH VV	--	--	--	--	1	1	--	--
120	287'WB'+26	LT	CTH VV	--	--	--	--	1	1	--	--
121	288'WB'+66	LT	CTH VV	--	--	--	--	1	1	--	--
122	289'WB'+54	LT	CTH VV	--	--	--	--	1	1	--	--
123	295'EB'+09	RT	CTH VV	--	--	--	--	1	1	--	--
124	301'WB'+86	LT	CTH VV	--	--	--	--	1	1	--	--
125	303'EB'+26	RT	CTH VV	--	--	--	--	1	1	--	--
126	308'EB'+47	RT	CTH VV	--	--	--	--	1	1	--	--
127	311'EB'+11	LT	CTH VV	--	--	--	--	1	1	--	--
128	441'NB'+07	LT	MILITARY ROAD	--	--	--	--	1	1	--	--
129	441'NB'+12	RT	MILITARY ROAD	--	--	--	--	1	1	--	--
130	442'NB'+42	RT	MILITARY ROAD	--	--	--	--	1	1	--	--
131	444'NB'+98	RT	MILITARY ROAD	--	--	--	--	1	2	--	--
132	445'SB'+29	LT	MILITARY ROAD	--	--	--	--	1	1	--	--
133	445'NB'+69	RT	MILITARY ROAD	--	--	--	--	1	1	--	--
134	452'NB'+13	RT	MILITARY ROAD	--	--	--	--	1	1	--	--
135	452'NB'+63	RT	MILITARY ROAD	--	--	--	--	1	--	--	--
136	452'SB'+65	LT	MILITARY ROAD	--	--	--	--	1	1	--	--
137	452'SB'+66	LT	MILITARY ROAD	--	--	--	--	1	2	--	--
138	453'NB'+58	RT	MILITARY ROAD	--	--	--	--	1	2	--	--
139	453'SB'+36	LT	ROGERSVILLE ROAD	--	--	--	--	1	1	--	--
140	453'SB'+92	LT	MILITARY ROAD	--	--	--	--	1	1	--	--
141	453'SB'+83	LT	ROGERSVILLE ROAD	--	--	--	--	1	1	--	--
142	454'SB'+22	LT	ROGERSVILLE ROAD	--	--	--	--	1	1	--	--
143	454'NB'+41	RT	MILITARY ROAD	--	--	--	--	1	1	--	--
144	30'OAK'+34	LT	OAK PARK AVENUE	--	--	--	--	1	1	--	--
145	455'SB'+03	LT	MILITARY ROAD	--	--	--	--	1	--	--	--

EXISTING SIGNING ITEMS

SIGN NUMBER	EXISTING SIGN STATION	LOCATION	EXISTING ROADWAY	634.0614* POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616* POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618* POSTS WOOD 4X6-INCH X 18-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CATEGORY CODE 0010											
146	456'NB'+89	RT	MILITARY ROAD	--	--	--	--	1	1	--	--
147	521'SUL'+99	RT	SULLIVAN DRIVE	--	--	--	--	1	--	--	--
201	274'WB'+90	LT	CTH VV	--	--	--	1	--	--	1	COORDINATE WITH PROPERTY OWNER FOR NEW LOCATION
202	280'WB'+11	LT	CTH VV	--	--	--	1	--	--	1	COORDINATE WITH PROPERTY OWNER FOR NEW LOCATION
203	284'WB'+81	LT	CTH VV	--	--	--	1	--	--	1	COORDINATE WITH PROPERTY OWNER FOR NEW LOCATION
204	285'WB'+38	LT	CTH VV	--	--	--	1	--	--	1	SEE PLANS FOR NEW LOCATION
206	308'EB'+47	RT	CTH VV	--	1	--	1	--	1	--	SEE PLANS FOR NEW LOCATION
207	309'EB'+48	RT	CTH VV	1	--	--	1	--	1	--	SEE PLANS FOR NEW LOCATION
208	310'EB'+43	RT	CTH VV	--	--	1	1	--	1	--	SEE PLANS FOR NEW LOCATION
209	310'WB'+52	LT	CTH VV	--	1	--	1	--	1	--	SEE PLANS FOR NEW LOCATION
210	443'NB'+75	RT	MILITARY ROAD	--	--	--	1	--	2	--	MOUNT TO OVERHEAD SIGN SUPPORT
211	443'SB'+81	LT	MILITARY ROAD	1	--	--	1	--	1	--	SEE PLANS FOR NEW LOCATION
212	450'NB'+10	RT	MILITARY ROAD	--	--	--	1	--	--	1	COORDINATE WITH PROPERTY OWNER FOR NEW LOCATION
213	450'NB'+22	RT	MILITARY ROAD	--	--	--	1	--	--	1	COORDINATE WITH PROPERTY OWNER FOR NEW LOCATION
214	450'NB'+31	RT	MILITARY ROAD	--	--	--	1	--	--	1	COORDINATE WITH PROPERTY OWNER FOR NEW LOCATION
215	450'NB'+40	RT	MILITARY ROAD	--	--	--	1	--	--	1	COORDINATE WITH PROPERTY OWNER FOR NEW LOCATION
216	453'NB'+83	RT	MILITARY ROAD	--	--	--	1	--	--	--	MOUNT ABOVE SIGN #363
217	454'NB'+36	RT	MILITARY ROAD	--	--	--	1	--	--	1	SEE PLANS FOR NEW LOCATION
218	30'OAK'+33	RT	OAK PARK AVENUE	--	1	--	1	--	1	--	SEE PLANS FOR NEW LOCATION
219	453'SB'+99	LT	ROGERSVILLE ROAD	--	--	--	1	--	--	1	SEE PLANS FOR NEW LOCATION
220	454'SB'+28	LT	ROGERSVILLE ROAD	--	--	--	1	--	--	1	SEE PLANS FOR NEW LOCATION
221	456'SB'+33	LT	MILITARY ROAD	--	--	--	1	--	--	1	MOVE TO NEW ENTRANCE ON SULLIVAN, SEE PLANS FOR LOCATION
222	456'SB'+76	LT	MILITARY ROAD	--	--	--	1	--	--	1	MOVE TO NEW ENTRANCE ON SULLIVAN, SEE PLANS FOR LOCATION
223	521'SUL'+56	LT	SULLIVAN DRIVE	--	--	--	1	--	--	1	COORDINATE WITH PROPERTY OWNER FOR NEW LOCATION
224	523'SUL'+95	RT	SULLIVAN DRIVE	--	--	--	1	--	--	1	SEE PLANS FOR NEW LOCATION
			TOTALS	**2**	**3**	**1**	**23**	**47**	**55**	**15**	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

OVERHEAD SIGN SUPPORTS

STRUCTURE NUMBER	STATION	LOCATION	641.8100.01 LS	641.8100.02 LS	641.8100.03 LS	641.8100.04 LS
CATEGORY CODE 0010						
S-20-0056	279'EB'+26	RT	1	--	--	--
S-20-0057	286'WB'+25	LT	--	1	--	--
S-20-0058	443'NB'+07	RT	--	--	1	--
S-20-0059	450'SB'+17	LT	--	--	--	1
		TOTALS	**1**	**1**	**1**	**1**

REMOVING STRUCTURAL STEEL SIGN SUPPORTS

STATION	LOCATION	638.3100 EACH	COMMENTS
CATEGORY CODE 0010			
455'SB'+22	LT	2	SUPPORTS FOR OLD SIGN
	TOTAL	**2**	

TRAFFIC CONTROL ITEMS

STATION - STATION	LOCATION	NUMBER OF DAYS IN SERVICE	643.0300 DRUMS NO. REQ'D	643.0300 DRUMS TOTAL DAY	643.0410 BARRICADES TYPE II NO. REQ'D	643.0410 BARRICADES TYPE II TOTAL DAY	643.0420 BARRICADES TYPE III NO. REQ'D	643.0420 BARRICADES TYPE III TOTAL DAY	643.0705 WARNING LIGHTS TYPE A NO. REQ'D	643.0705 WARNING LIGHTS TYPE A TOTAL DAY	643.0715 WARNING LIGHTS TYPE C NO. REQ'D	643.0715 WARNING LIGHTS TYPE C TOTAL DAY	643.0900 SIGNS NO. REQ'D	643.0900 SIGNS TOTAL DAY	643.0920 COVERING SIGNS TYPE II EACH	643.1050 SIGNS PCMS NO. REQ'D	643.1050 SIGNS PCMS TOTAL DAY
CATEGORY CODE 0010																	
PROJECT 4986-00-22		247	436	107,692	--	--	59	14,573	96	23,712	11	2,717	61	15,067	4	4	28
MILITARY ROAD - MEDIAN CLOSURE		107	39	4,173	--	--	3	321	6	642	11	1,177	12	1,284	--	--	--
MILITARY ROAD - NB LANES CROSSOVER TO SB		90	51	4,590	--	--	3	270	6	540	25	2,250	11	990	--	--	--
MILITARY ROAD - SB LANES CROSSOVER TO NB		50	66	3,300	--	--	6	300	24	1,200	10	500	12	600	--	--	--
SIDEWALK/ PATH CLOSURE		247	--	--	8	1,976	--	--	--	--	--	--	4	988	--	--	--
UNDISTRIBUTED				5,385		--		729		1,186		136		753	--	--	--
TOTALS			592	**125,140**	8	**1,976**	71	**16,193**	132	**27,280**	57	**6,780**	100	**19,682**	**4**	4	**28**

TEMPORARY PAVEMENT MARKING ITEMS

STATION - STATION	LOCATION	649.0400 REMOVABLE TAPE 4-INCH WHITE LF	649.0400 REMOVABLE TAPE 4-INCH YELLOW LF	649.0402 PAINT 4-INCH YELLOW LF	COMMENTS
CATEGORY CODE 0010					
284'EB'+00 - 311'EB'+06.90	LT	--	--	2,770	--
436'NB'+41 - 438'NB'+86	RT	--	491	--	MILITARY ROAD MEDIAN CLOSURE
432'NB'+77 - 447'NB'+06	LT & RT	1,362	825	--	MILITARY ROAD NORTHBOUND CROSSOVER
438'NB'+86 - 447'NB'+02	LT & RT	397	1,975	--	MILITARY ROAD SOUTHBOUND CROSSOVER
		1,759	3,291		
	TOTALS	**5,050**		**2,770**	

PAVEMENT MARKING ITEMS

STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH WHITE LF	646.0106 EPOXY 4-INCH YELLOW LF	646.0126 EPOXY 8-INCH WHITE LF	646.0841.S GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH WHITE LF	646.0843.S GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH WHITE LF	647.0156 ARROWS EPOXY TYPE 1 WHITE EACH	647.0166 ARROWS EPOXY TYPE 2 WHITE EACH	647.0176 ARROWS EPOXY TYPE 3 WHITE EACH	647.0206 ARROWS BIKE LANE EPOXY WHITE EACH	647.0306 SYMBOLS BIKE LANE EPOXY WHITE EACH	647.0356 WORDS EPOXY WHITE EACH	647.0456 CURB EPOXY YELLOW LF	647.0566 STOP LINE EPOXY 18-INCH WHITE LF	647.0606 ISLAND NOSE EPOXY YELLOW EACH	647.0726 DIAGONAL EPOXY 12-INCH WHITE LF	647.0726 DIAGONAL EPOXY 12-INCH YELLOW LF	647.0766 CROSSWALK EPOXY 6-INCH WHITE LF	647.0856 CONCRETE CORRUGATED MEDIAN EPOXY YELLOW SF
CATEGORY CODE 0010																			
271'EB'+68 - 281'EB'+12	LT & RT	898	1,943	322	--	436	--	4	--	4	4	--	34	--	1	98	125	240	--
283'EB'+05 - 311'EB'+07	LT & RT	5,884	440	1,422	--	602	--	4	--	11	11	2	191	87	8	68	--	394	--
438'NB'+86 - 447'NB'+27	LT & RT	678	45	--	--	678	--	--	--	--	--	--	--	--	--	74	--	--	--
449'NB'+08 - 457'NB'+84	LT & RT	1,048	1,798	140	79	66	--	6	--	4	4	--	10	--	1	18	37	--	--
520'SUL'+45 - 524'SUL'+50	LT & RT	--	786	154	--	--	--	--	--	--	--	--	--	26	--	--	--	126	--
29'OAK'+16 - 30'OAK'+34	LT & RT	--	74	38	--	--	--	1	1	--	--	--	--	--	--	--	--	198	--
8'MM'+10 - 11'MM'+81	LT & RT	--	506	524	--	--	2	7	--	--	--	2	--	107	--	--	--	382	450
10'RAB'+00 - 13'RAB'+74	RT	--	--	--	--	228	--	--	--	--	--	--	--	--	--	--	--	--	--
		8,508	5,592													258	162		
	TOTALS	**14,100**		**2,600**	**79**	**2,010**	**2**	**22**	**1**	**19**	**19**	**4**	**235**	**220**	**10**	**420**		**1,340**	**450**

PAVEMENT MARKING ITEMS

STATION - STATION	LOCATION	SPV.0060.401 ARROWS GROOVED EPOXY TYPE 1 WHITE EACH	SPV.0060.402 ARROWS GROOVED EPOXY TYPE 2R WHITE EACH	SPV.0060.403 ARROWS GROOVED EPOXY TYPE 2 WHITE EACH	SPV.0060.404 ARROWS GROOVED EPOXY TYPE 3R WHITE EACH	SPV.0060.405 ARROWS GROOVED EPOXY TYPE 3 WHITE EACH	SPV.0060.406 WORDS GROOVED EPOXY WHITE EACH	SPV.0090.401 GROOVED EPOXY 18-INCH WHITE LF	SPV.0090.402 CROSSWALK GROOVED EPOXY 24-INCH WHITE LF
CATEGORY CODE 0010									
271'EB'+68 - 281'EB'+12	LT & RT	--	--	6	2	--	4	28	130
283'EB'+05 - 311'EB'+07	LT & RT	--	3	15	2	3	11	24	140
438'NB'+86 - 447'NB'+27	LT & RT	--	--	3	3	--	4	26	130
449'NB'+08 - 457'NB'+84	LT & RT	--	--	2	1	1	3	18	120
520'SUL'+45 - 524'SUL'+50	LT & RT	--	--	4	--	--	2	--	--
29'OAK'+16 - 30'OAK'+34	LT & RT	--	--	--	--	--	--	--	--
8'MM'+10 - 11'MM'+81	LT & RT	--	--	--	--	--	--	--	--
10'RAB'+00 - 13'RAB'+74	RT	2	--	1	--	3	1	--	--
	TOTALS	**2**	**3**	**31**	**8**	**7**	**25**	**96**	**520**

REMOVING PAVEMENT MARKING ITEMS

LOCATION	646.0600 REMOVING PAVEMENT MARKINGS LF	647.0955 REMOVING PAVEMENT MARKINGS ARROWS EACH	647.0965 REMOVING PAVEMENT MARKINGS WORDS EACH
CATEGORY CODE 0010			
PROJECT 4986-00-22	1,230	2	1
TOTAL	**1,230**	**2**	**1**

SAWING PAVEMENT ITEMS

STATION - STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	COMMENTS
CATEGORY CODE 0010				
272'EB'+00	LT & RT	30	--	CTH VV PROJECT LIMITS
58'PR'+79	LT & RT	38	--	PRIVATE ROAD
278'WB'+47 - 279'WB'+07	LT	94	--	FLEET FARM GAS STATION PARKING LOT
279'EB'+28 - 279'EB'+71	RT	63	--	FLEET FARM CAR WASH PARKING LOT
280'WB'+06 - 280'WB'+72	LT	396	--	FLEET FARM GAS STATION ENTRANCE & PARKING LOT
284'WB'+76 - 285'WB'+37	LT	68	--	MANOWSKE/ MARINE CU ENTRANCE
287'WB'+90 - 288'WB'+57	LT	68	--	MARINE CU ENTRANCE
290'EB'+52 - 291'EB'+05	RT	48	5	MERCURY NORTH ENTRANCE
296'EB'+60 - 297'EB'+11	RT	47	5	MERCURY CENTER ENTRANCE
296'WB'+67 - 298'WB'+63	LT	96	--	MERCURY PARKING LOT
297'EB'+35 - 298'EB'+09	RT	73	2	MERCURY PARKING LOT
301'EB'+14 - 304'EB'+54	RT	344	--	MERCURY PARKING LOT
304'EB'+62 - 306'EB'+67	RT	374	--	MERCURY INTERSECTION
11'MM'+27 - 11'MM'+81	LT	98	2	MERCURY INTERSECTION
307'EB'+88 - 308'EB'+20	LT	32	--	MERCURY SOUTH ENTRANCE
311'EB'+07	LT & RT	--	68	CTH VV PROJECT LIMITS
42'NB'+98	LT & RT	--	58	MILITARY RD CONSTRUCTION LIMITS
49'NB'+28 - 50'NB'+73	RT	153	--	MANOWSKE ENTRANCE & PARKING LOT
52'NB'+26 - 52'NB'+54	RT	28	--	MANOWSKE ENTRANCE
53'SB'+34 - 53'SB'+58	LT	37	--	ROGERSVILLE RD REMOVAL LIMITS
53'NB'+67 - 53'NB'+67	RT	--	10	DRIVEWAY REMOVAL
53'NB'+88 - 54'NB'+51	RT	--	98	PARKING LOT REMOVAL
54'SB'+03 - 57'NB'+58	LT	370	--	FLEET FARM PARKING LOT
30'OAK'+72	RT	28	5	OAK PARK AVE CONSTRUCTION LIMITS
55'NB'+56 - 55'NB'+61	RT	--	5	SERVICE WALK
56'NB'+01 - 56'NB'+26	RT	26	--	FRENCHIE'S TAVERN ENTRANCE
57'NB'+39 - 57'NB'+51	RT	12	--	RICH'S ENGINE ENTRANCE
57'NB'+60 57'NB'+84	LT & RT	--	94	MILITARY RD CONSTRUCTION LIMITS
20'SUL'+96 - 21'SUL'+29	LT	55	--	AIRGAS ENTRANCE REMOVAL
21'SUL'+89 - 22'SUL'+03	RT	23	--	FLEET FARM ENTRANCE
22'SUL'+21 - 23'SUL'+99	RT	234	--	FLEET FARM ENTRANCE & PARKING LOT
24'SUL'+04	RT	--	4	SIDEWALK LIMITS
24'SUL'+50	LT & RT	24	--	SULLIVAN CONSTRUCTION LIMITS
311'EB'+84	RT	11	--	PATH CONSTRUCTION LIMITS
311'WB'+45	RT	5	--	SIDEWALK CONSTRUCTION LIMITS
438'NB'+86 - 442'NB'+60	LT & RT	--	764	TEMPORARY CROSSOVER
UNDISTRIBUTED FOR TRAFFIC CONTROL		2,565	--	--
	TOTALS	**5,440**	**1,120**	

CONSTRUCTION STAKING ITEMS

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.7000 CONCRETE PAVEMENT LF	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF	SPV.0105.002 MULTI-USE PATH AND SIDEWALK LS
CATEGORY CODE 0010							
272'EB'+00 - 311'EB'+07	LT & RT	3,907	213	3,694	1	3,907	--
274'EB'+13 - 311'EB'+78	LT & RT	--	--	--	--	--	1
311'WB'+03 - 314'WB'+45	LT	--	--	--	--	342	--
442'NB'+97 - 457'NB'+84	LT & RT	1,487	--	1,487	--	1,487	--
520'SUL'+00 - 524'SUL'+24	LT & RT	450	26	424	--	450	--
29'OAK'+16 - 30'OAK'+72	LT & RT	156	39	117	--	156	--
8'MM'+10 - 11'MM'+81	LT & RT	371	255	116	--	371	--
10'RAB'+00 - 13'RAB'+74	RT	374	--	374	--	--	--
	TOTALS	**6,745**	**533**	**6,212**	**1**	**6,713**	**1**

STAKING ITEMS FOR STORM SEWER & CURB OR GUTTER SHOWN ELSEWHERE

RETAINING WALL ITEMS

STATION	LOCATION	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT LS	SPV.0090.001 RAILING TUBULAR GALVANIZED LF	SPV.0165.001 WALL MODULAR BLOCK GRAVITY LRFD SF
CATEGORY CODE 0010				
296'WB'+50 - 298'WB'+70	LT	1	220	960
	TOTALS	**1**	**220**	**960**

STREET SWEEPING

LOCATION	SPV.0075.001 HRS
CATEGORY CODE 0010	
PROJECT 4986-00-02	70
TOTAL	**70**

3

REMOVING AND ABANDONING WATER MAIN AND SANITARY SEWER ITEMS

STATION	LOCATION	204.0210* REMOVING MANHOLES EACH	SPV.0060.319 REMOVE EXISTING HYDRANT EACH	SPV.0060.320 ABANDON WATER MAIN STRUCTURE EACH
CATEGORY CODE 0020				
282'WB'+65	LT	--	--	1
283'WB'+10	LT	1	--	--
290'EB'+88	RT	1	--	--
294'EB'+55	RT	1	--	--
297'WB'+67	LT	1	--	--
452'NB'+04	RT	--	--	1
452'NB'+19	RT	--	1	--
454'NB'+69	RT	1	--	--
454'NB'+92	RT	--	1	--
457'NB'+63	RT	1	--	--
13'RAB'+25	LT	1	--	--
TOTALS		**7**	**2**	**2**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

SANITARY SEWER PIPES

FROM	-	TO	LOCATION	SPV.0090.201 6" PVC SDR 35 SANITARY SEWER LATERALS LF	SPV.0090.202 8" PVC SDR 35 SANITARY SEWER MAIN LF	SPV.0090.203 10" PVC SDR 35 SANITARY SEWER MAIN LF	SPV.0090.204 12" PVC SDR 35 SANITARY SEWER MAIN LF	SPV.0090.205 15" PVC SDR 35 SANITARY SEWER MAIN LF
CATEGORY CODE 0020								
4	-	6	MILITARY-NB		469			
6	-	7	MILITARY-NB		283			
6.1	-	6	MILITARY-NB		13			
7	-	8	MILITARY-NB		14			
8	-	8.1	MILITARY-NB		5			
10	-	11	MILITARY-SB		117			
10.1	-	10	MILITARY-SB		6			
11	-	11.1	MILITARY-SB		8			
26-15	-	26-15.1	SULLIVAN					5
26-15.2	-	26-15	SULLIVAN					5
26-15.3	-	26-15	SULLIVAN					5
26-16	-	26-16.1	SULLIVAN					5
26-16.2	-	26-16	SULLIVAN					5
26-61	-	26-61.1	VV-EB					5
26-61.2	-	26-61	VV-EB				5	
26-61.3	-	26-61	VV-EB			5		
26-62	-	26-62.1	VV-EB			5		
26-62.2	-	26-62	VV-EB		5			
26-62.3	-	26-62	VV-EB		5			
450+09			MILITARY-NB	43				
452+45			MILITARY-NB	22				
453+47			MILITARY-NB	22				
455+46			MILITARY-NB	22				
TOTALS				**109**	**925**	**10**	**5**	**30**

SANITARY SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	SPV.0060.201 Manholes Sanitary 4-FT Diameter EACH	SPV.0060.202 Adjusting Sanitary Sewer Manhole EACH	SPV.0060.203 Reconstruct Sanitary Sewer Manhole EACH
CATEGORY CODE 0020						
4	450+00	5.5' RT	MILITARY-NB	1		
6	454+69	5.5' RT	MILITARY-NB	1		
7	457+51	12' RT	MILITARY-NB	1		
8	457+63	21.4' RT	MILITARY-NB	1		
10	456+28	21.7' LT	MILITARY-SB	1		
11	457+46	25' LT	MILITARY-NB	1		
26-83	273+53	12.4' RT	VV-EB			1
26-14A	276+46	11.5' LT	VV-EB			1
26-14	521+66	64' RT	SULLIVAN			1
26-117	11+14	7.2' RT	RAB-MILITARY			1
26-15	13+25	10.8' LT	RAB-MILITARY	1		
26-16	283+10	7.6' LT	VV-WB	1		
26-60	286+75	16.9' RT	VV-EB			1
26-61	290+88	13.9' RT	VV-EB	1		
26-62	294+55	18.1' RT	VV-EB	1		
26-63	294+54	34.9' LT	VV-WB			1
26-119	443+32	29.5' LT	MILITARY-SB		1	
26-118	12+32	18' RT	RAB-MILITARY		1	
		TOTALS		**10**	**2**	**6**

REMARKS
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

WATER MAIN PIPES

FROM	-	TO	LOCATION	SPV.0090.301 6" PVC DR18 WATER MAIN LF	SPV.0090.302 10" PVC DR18 WATER MAIN LF	SPV.0090.303 12" PVC DR18 WATER MAIN LF	SPV.0090.304 1¼" POLYETHYLENE WATER SERVICE PIPE LF
CATEGORY CODE 0020							
281+07	-	286+66	VV-EB			189	
449+18	-	457+42	MILITARY-NB			853	
450+14	-	450+17	MILITARY-NB				78
452+47	-	452+50	MILITARY-NB	55			
453+42	-	453+42	MILITARY-NB				50
453+93	-	453+93	MILITARY-NB	23			
29+56	-	29+90	OAK-PARK			38	
29+90	-	30+62	OAK-PARK	77			
455+49	-	455+53	MILITARY-NB				52
457+42	-	457-42	MILITARY-NB		50		
		TOTALS		**155**	**50**	**1080**	**180**

INSULATION BOARD

STATION	LOCATION	SPV.0165.301 2-INCH SF
CATEGORY CODE 0020		
450'SB'+74	LT	32
454'SB'+17	LT	32
455'SB'+48	LT	32
38'OAK'+38	LT	32
TOTAL		**128**

WATER MAIN FITTINGS

STATION	OFFSET*	LOCATION	SPV.0060.301 CONNECT TO EXISTING 6" WATER MAIN EACH	SPV.0060.302 CONNECT TO EXISTING 10" WATER MAIN EACH	SPV.0060.303 CONNECT TO EXISTING 12" WATER MAIN EACH	SPV.0060.304 TEMPORARY 2" BLOW OFF EACH	SPV.0060.305 6" WATER MAIN VALVE AND BOX EACH	SPV.0060.306 10" WATER MAIN VALVE AND BOX EACH	SPV.0060.307 12" WATER MAIN VALVE AND BOX EACH	SPV.0060.308 12"X 12" CROSS EACH	SPV.0060.309 12"X 6" TEE EACH	SPV.0060.310 12"X 10" TEE EACH	SPV.0060.311 10" - 90 DEGREE BEND EACH	SPV.0060.312 6" - 45 DEGREE BEND EACH	SPV.0060.313 10" - 45 DEGREE BEND EACH	SPV.0060.314 12" - 45 DEGREE BEND EACH	SPV.0060.315 12"X 6" REDUCER EACH	SPV.0060.316 12" PLUG EACH	SPV.0060.317 1¼" WATER SERVICE EACH	SPV.0060.318 HYDRANT EACH	SPV.0060.321 ADJUST WATER VALVE BOX EACH	SPV.0060.322 ADJUST WATER CURB BOX EACH
CATEGORY CODE 0020																						
281+07	74' LT	VV-EB			1	1																
283+74	79' LT	VV-EB			1																	
448+78	42' LT	MILITARY-SB			1																	
448+84	47' LT	MILITARY-SB														1						
449+79	16' LT	MILITARY-SB														1						
450+12	38' RT	MILITARY-NB																	1			
452+50	8' LT	MILITARY-SB									1											
452+50	5' LT	MILITARY-SB												1								
452+49	12' RT	MILITARY-NB												1								
452+49	15' RT	MILITARY-NB												1								
452+49	24' RT	MILITARY-NB					1															
452+49	26' RT	MILITARY-NB												1								
452+47	28' RT	MILITARY-NB												1								
452+47	30' RT	MILITARY-NB	1																			
453+42	25' RT	MILITARY-NB																	1			
45393	9' LT	MILITARY-SB									1											
45393	21' LT	MILITARY-SB					1															
45393	31' LT	MILITARY-SB																			1	
45467	9' LT	MILITARY-SB							1													
454+80	9' LT	MILITARY-SB								1												
45553	24' RT	MILITARY-NB																	1			
45742	15' LT	MILITARY-NB										1						1				
45742	10' LT	MILITARY-NB													1							
45742	8' LT	MILITARY-NB													1							
457+42	16' RT	MILITARY-NB													1							
45742	19' RT	MILITARY-NB													1							
45742	27' RT	MILITARY-NB				1		1														
45742	32' RT	MILITARY-NB		1									1									
2956	7' LT	OAK-PARK			1																	
29+60	12' LT	OAK-PARK														1						
2975	12' LT	OAK-PARK							1													
2990	12' LT	OAK-PARK															1					
2992	12' LT	OAK-PARK												1								
2994	12' LT	OAK-PARK												1								
30+16	12' LT	OAK-PARK												1								
3018	12' LT	OAK-PARK												1								
3054	12' LT	OAK-PARK				1								1								
3060	18' LT	OAK-PARK												1								
3063	18' LT	OAK-PARK	1			1																
273+71	6' LT	VV-WB																		1		
273+78	14' LT	VV-WB																		1		
273+99	35' LT	VV-WB																			1	
275+96	43' LT	VV-WB																			1	
278+66	23' LT	VV-WB																		1		
278+76	30' LT	VV-WB																		1		
281+20	67' RT	VV-EB																		1		
281+39	20' LT	VV-WB																		1		
283+62	64' LT	VV-WB																		1		
285+41	23' LT	VV-WB																		1		
285+49	25' LT	VV-WB																		1		
285+97	31' LT	VV-WB																			1	
291+59	47' RT	VV-EB																		1		
291+65	52' RT	VV-EB																		1		
293+35	16' LT	VV-WB																		1		
294+00	22' LT	VV-WB																		1		

WATER MAIN FITTINGS

STATION	OFFSET*	LOCATION	SPV.0060.301 CONNECT TO EXISTING 6" WATER MAIN EACH	SPV.0060.302 CONNECT TO EXISTING 10" WATER MAIN EACH	SPV.0060.303 CONNECT TO EXISTING 12" WATER MAIN EACH	SPV.0060.304 TEMPORARY 2" BLOW OFF EACH	SPV.0060.305 6" WATER MAIN VALVE AND BOX EACH	SPV.0060.306 10" WATER MAIN VALVE AND BOX EACH	SPV.0060.307 12" WATER MAIN VALVE AND BOX EACH	SPV.0060.308 12"X 12" CROSS EACH	SPV.0060.309 12"X 6" TEE EACH	SPV.0060.310 12"X 10" TEE EACH	SPV.0060.311 10" - 90 DEGREE BEND EACH	SPV.0060.312 6" - 45 DEGREE BEND EACH	SPV.0060.313 10" - 45 DEGREE BEND EACH	SPV.0060.314 12" - 45 DEGREE BEND EACH	SPV.0060.315 12"X 6" REDUCER EACH	SPV.0060.316 12" PLUG EACH	SPV.0060.317 1¼" WATER SERVICE EACH	SPV.0060.318 HYDRANT EACH	SPV.0060.321 ADJUST WATER VALVE BOX EACH	SPV.0060.322 ADJUST WATER CURB BOX EACH
CATEGORY CODE 0020																						
294+73	33' LT	VV-WB																			1	
299+76	17' LT	VV-WB																			1	
299+85	22' LT	VV-WB																			1	
303+59	43' RT	VV-EB																			1	
305+55	17' LT	VV-WB																			1	
305+65	22' LT	VV-WB																			1	
306+90	47' RT	VV-EB																			1	
308+93	19' LT	VV-WB																			1	
520+56	17' LT	SULLIVAN																			1	
523+10	23' LT	SULLIVAN																			1	
523+18	21' LT	SULLIVAN																			1	
		TOTALS	**2**	**1**	**4**	**4**	**2**	**1**	**2**	**1**	**2**	**1**	**1**	**11**	**4**	**3**	**1**	**1**	**3**	**1**	**24**	**3**

REMARKS
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

3

LIGHTING CONDUIT AND WIRE

FROM		TO	652.0225 * CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 * CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG LF	REMARKS
ALL ITEMS ARE CATEGORY 0010								
SL 100	-	PB 100	140	--	154	308	--	--
PB 100	-	SL 101	--	105	119	357	--	--
PB 100	-	PB 101	70	--	172	430	--	--
PB 101	-	PB 102	--	100	--	--	--	PULL-WIRE ONLY
PB 101	-	SL 104	70	--	168	420	--	--
SL 104	-	SL 106	240	--	252	756	--	--
SL 106	-	PB 104	--	125	--	--	--	PULL-WIRE ONLY
PB 104	-	SL 105	--	40	--	--	--	PULL-WIRE ONLY
PB 104	-	PB 105	--	60	76	228	--	--
PB 104	-	PB 103	--	75	91	273	--	--
SL 106	-	PB 106	45	--	59	177	--	--
PB 106	-	PB 107	--	75	91	273	--	--
PB 107	-	SL 107	20	--	34	102	--	--
SL 107	-	SL 108	195	--	207	621	--	--
PB 107	-	PB 108	--	85	101	303	--	--
PB 108	-	SL 109	60	--	74	222	--	--
SL 109	-	PB 109	--	135	149	447	--	--
PB 109	-	CB 100	--	35	53	159	--	--
CB 100	-	PB 110	--	20	38	114	--	--
PB 110	-	SL 111	--	20	68	204	--	--
SL 111	-	SL 113	160	--	172	344	--	--
PB 110	-	SL 112	--	135	149	447	--	--
SL 112	-	SL 114	340	--	352	1,056	--	--
SL 114	-	SL 115	215	--	227	681	--	--
SL 115	-	SL 116	215	--	227	454	--	--
SL 112	-	PB 103	--	60	148	370	--	--
PB 103	-	PB 102	290	--	306	612	--	--
PB 102	-	SL 102	185	--	199	398	--	--
PB 102	-	SL 101	75	--	--	--	--	PULL-WIRE ONLY
SL 101	-	SL 103	315	--	327	654	--	--
CB 100	-	PB 109	--	35	--	--	212	--
PB 109	-	SL 110	--	15	58	174	--	--
PB 109	-	PB 111	--	70	--	--	344	--
PB 111	-	SL 117	135	--	--	--	596	--
SL 117	-	SL 118	210	--	--	--	888	--
SL 118	-	SL 119	210	--	--	--	888	--
SL 119	-	SL 120	210	--	--	--	888	--
SL 120	-	SL 121	205	--	--	--	868	--
SL 121	-	SL 122	210	--	--	--	888	--
SL 122	-	SL 123	215	--	--	--	908	--
SL 123	-	SL 124	210	--	--	--	888	--
SL 124	-	SL 125	215	--	--	--	908	--
SL 126	-	SL 127	200	--	212	636	--	--
SL 127	-	EX SL	200	--	212	636	--	--
PRJOECT TOTALS			4855	1190	4495	11856	8276	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

INTERCONNECT PULLBOXES AND VAULTS

PULL BOX NUMBER	STATION	OFFSET	L/R	SPV.0060.114 * PULL BOX NON-CONDUCTIVE 24X42-INCH EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH
ALL ITEMS ARE CATEGORY 0020					
ICPB1	274+86 EB	33'	R	1	
CV1	277+53 EB	31'	R		1
ICPB2	446+80 SB	51'	L	1	
CV2	446+76 NB	16'	L		1
ICPB3	446+77 NB	75'	R	1	
CV3	283+83 EB	7'	L		1
CV4	282+70 WB	59'	L		1
ICPB4	290+31 EB	8'	L	1	
ICPB5	300+15 EB	8'	L	1	
ICPB6	303+80 EB	14'	L	1	
ICPB7	303+80 EB	45'	R	1	
CV5	305+79 EB	55'	R		1
ICPB8	305+70 EB	4'	L	1	
ICPB9	310+93 EB	5'	L	1	
ICPB10	524+5 SUL	30'	L	1	
ICPB11	443+9 SB	7'	R	1	
ICPB12	449+29 SB	38'	L	1	
ICPB13	457+24 SB	28'	L	1	
CATEGORY 0020 TOTAL				13	5

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

INTERCONNECT CONDUIT

FROM	-	TO	652.0225 * CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF
ALL ITEMS ARE CATEGORY 0020			
ICPB1	-	CV1	245
CV1	-	ICPB2	415
CV1	-	ICPB10	421
ICPB2	-	CV2	64
CV2	-	ICPB3	90
CV2	-	ICPB11	362
ICPB3	-	CV3	144
CV3	-	CV4	104
CV4	-	ICPB12	128
ICPB12	-	ICPB13	782
CV3	-	ICPB4	652
ICPB4	-	ICPB5	985
ICPB5	-	ICPB6	366
ICPB6	-	ICPB7	60
ICPB7	-	CV5	205
CV5	-	CB1	15
CV5	-	ICPB8	61
ICPB8	-	ICPB9	523
CATEGORY 0020 TOTAL			5,622

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

LIGHTING PULLBOXES

PULLBOX NUMBER	STATION	OFFSET	R/L	SPV.0060.114 * PULL BOX NON-CONDUCTIVE 24X42-INCH EACH
ALL ITEMS ARE CATEGORY 0010				
PB 100	277+49 'EB'	34.0'	RT	1
PB 101	278+20 'EB'	26.4'	RT	1
PB 102	278+35 'WB'	53.9'	LT	1
PB 103	281+17 'WB'	49.3'	LT	1
PB 104	280+97 'EB'	22.6'	LT	1
PB 105	4+25	49.5'	RT	1
PB 106	446+85 'SB'	53.4'	LT	1
PB 107	446+77 'NB'	10.3'	LT	1
PB 108	446+81 'NB'	72.2'	RT	1
PB 109	283+53 'WB'	55.4'	LT	1
PB 110	2+48	34.6'	RT	1
PB 111	283+87 'EB'	5.1'	LT	1
PRJECT TOTALS				11

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STREET LIGHTING REMOVALS

LIGHT NUMBER	STATION	R/L	204.0195 * REMOVING CONCRETE BASES EACH
ALL ITEMS CATEGORY 0010			
EXSL01	522+00'SUL'	RT	1
EXSL02	523+50'SUL'	LT	1
PROJECT TOTALS			2

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

LIGHTING BASES

LIGHT NUMBER	STATION	OFFSET	R/L	654.0105 CONCRETE BASES TYPE 5 EACH	SPV.0060.102 * TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE BLACK EACH	SPV.0060.104 POLES TYPE 5 ALUMINUM BLACK EACH	SPV.0060.110 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BLACK EACH	SPV.0060.111 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT BLACK EACH	SPV.0060.112 LUMINAIRES UTILITY LED B BLACK EACH	655.0610 * ELECTRICAL WIRE LIGHTING 12 AWG LF
ALL ITEMS ARE CATEGORY 0010										
SL 100	276+00 'EB'	35.2'	RT	1	1	1	--	1	1	156
SL 101	520+61 'SUL'	32.8'	LT	1	1	1	--	1	1	156
SL 102	522+31 'SUL'	40.7'	RT	1	1	1	--	1	1	156
SL 103	524+00 'SUL'	33.0'	LT	1	1	1	--	1	1	156
SL 104	278+89 'EB'	32.0'	RT	1	1	1	--	1	1	156
SL 105	280+66 'EB'	19.4'	LT	1	1	1	2	--	2	312
SL 106	447+25 'SB'	71.6'	LT	1	1	1	--	1	1	156
SL 107	446+59 'NB'	09.5'	LT	1	1	1	2	--	2	312
SL 108	444+70 'NB'	10.7'	LT	1	1	1	--	1	1	156
SL 109	283+26 'EB'	53.9'	RT	1	1	1	--	1	1	156
SL 110	283+81 'WB'	52.3'	LT	1	1	1	--	1	1	156
SL 111	449+34 'NB'	49.3'	RT	1	1	1	--	1	1	156
SL 112	449+44 'SB'	51.0'	LT	1	1	1	--	1	1	156
SL 113	450+88 'NB'	21.2'	RT	1	1	1	--	1	1	156
SL 114	452+95 'SB'	25.9'	LT	1	1	1	--	1	1	156
SL 115	455+08 'SB'	34.2'	LT	1	1	1	--	1	1	156
SL 116	457+18 'SB'	28.4'	LT	1	1	1	--	1	1	156
SL 117	285+23 'EB'	09.8'	LT	1	1	1	2	--	2	312
SL 118	287+30 'EB'	14.0'	LT	1	1	1	2	--	2	312
SL 119	289+37 'EB'	09.0'	LT	1	1	1	2	--	2	312
SL 120	291+45 'EB'	04.0'	LT	1	1	1	2	--	2	312
SL 121	293+48 'EB'	07.1'	LT	1	1	1	2	--	2	312
SL 122	295+56 'EB'	09.0'	LT	1	1	1	2	--	2	312
SL 123	297+72 'EB'	04.0'	LT	1	1	1	2	--	2	312
SL 124	299+79 'EB'	05.1'	LT	1	1	1	2	--	2	312
SL 125	301+93 'EB'	13.2'	LT	1	1	1	2	--	2	312
SL 126	307+41 'EB'	04.0'	LT	1	1	1	2	--	2	312
SL 127	309+36 'EB'	08.3'	LT	1	1	1	2	--	2	312
PROJECT TOTALS				28	28	28	26	15	41	6396

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

LIGHTING CONTROL

CABINET NUMBER	STATION	OFFSET	R/L	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0200.02 ELECTRICAL SERVICE METER BREAKER PEDESTAL (CB100) LS	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH
ALL ITEMS ARE CATEGORY 0010						
CB100	2+36	39.8'	RT	1	1	1
PROJECT TOTALS				1	1	1

TRAFFIC SIGNAL STRUCTURES

LOCATION / BASE NUMBER	STATION	OFFSET	L/R	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	SPV.0060.101 PEDESTAL BASES BLACK EACH	SPV.0060.102 * TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE BLACK EACH	SPV.0060.103 POLES TYPE 4 BLACK EACH	SPV.0060.105 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT BLACK EACH	SPV.0060.106 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT BLACK EACH	SPV.0060.107 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT BLACK EACH	SPV.0060.108 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT BLACK EACH	SPV.0060.109 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT BLACK EACH	SPV.0060.112 * LUMINAIRES UTILITY LED B BLACK EACH
CATEGORY 0010														
CTH VV & PRIVATE DRIVEWAY														
SB1	305+51 EB	57'	R	1	--	1	--	--	--	--	1	--	--	--
SB2	305+24 EB	40'	R	1	--	1	--	--	--	--	1	--	--	--
SB3	305+23 EB	52'	R	1	--	1	--	--	--	--	1	--	--	--
SB5	304+30 EB	46'	R	1	--	1	--	--	1	--	--	--	--	--
SB6	304+08 EB	46'	R	1	--	1	--	--	--	--	--	1	--	--
SB7	304+08 EB	4'	R		1	--	1	1	--	--	--	--	2	2
SB9	304+03 WB	37'	L	1	--	1	--	--	--	1	--	--	--	--
SB10	304+13 WB	43'	L	1	--	1	--	--	--	--	1	--	--	--
SB12	305+22 WB	42'	L	1	--	1	--	--	1	--	--	--	--	--
SB13	305+43 WB	33'	L	1	--	1	--	--	--	--	--	1	--	--
SB14	305+52 EB	4'	L		1	--	1	1	--	--	--	--	2	2
SB16	305+67 EB	40'	R	1	--	1	--	--	1	--	--	--	--	--
CATEGORY 0010 TOTAL				10	2	10	2	2	3	1	4	2	4	4

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

TRAFFIC SIGNAL LOOP DETECTORS

LOCATION / LOOP NO.	STATION **	OFFSET	L/R	SIZE FT X FT	NO. OF TURNS	INSTALLATION METHOD	652.0800 CONDUIT LOOP DETECTOR LF	655.0800 LOOP DETECTOR WIRE LF	655.0700 * LOOP DETECTOR LEAD IN CABLE LF
CATEGORY 0010									
CTH VV & PRIVATE DRIVEWAY									
11	305+87 EB	13'	L	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	246	104
12	305+62 EB	13'	L	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	228	104
13	305+37 EB	13'	L	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	246	82
21	301+55 EB	11'	R	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	216	518
41	305+11 EB	53'	R	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	246	96
42	305+39 EB	53'	R	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	246	96
51	303+57 WB	13'	R	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	246	308
52	303+82 WB	13'	R	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	216	308
53	304+07 WB	13'	R	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	246	283
61	307+97 WB	10'	L	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	216	314
71	304+89 EB	54'	R	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	132	396	187
72	305+00 EB	53'	R	6 X 20	4	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	408	187
81	304+72 WB	37'	L	6 X 30	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	97	516	194
82	304+60 WB	37'	L	6 X 30	4	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	512	279
83	304+43 WB	42'	L	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	246	279
84	304+31 WB	42'	L	6 X 20	4	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	288	279
CATEGORY 0010 TOTAL							1,369	4,718	3,618

* ADDITIONAL QUANTITY FOUND ELSEWHERE
** LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP & FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

TRAFFIC SIGNAL CONDUIT

LOCATION	FROM - TO	652.0225 * CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 * CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CATEGORY 0010			
CTH VV & PRIVATE DRIVEWAY			
	CB1 - PB1	--	30
	CB1 - PB17	--	48
	PB1 - SB1	12	--
	PB1 - PB2	--	94
	PB2 - SB2	8	--
	PB2 - PB3	22	--
	PB2 - PB5	--	150
	PB3 - SB3	5	--
	PB5 - PB4	37	--
	PB5 - SB4	--	15
	PB5 - PB6	--	160
	PB6 - SB5	50	--
	PB6 - SB6	25	--
	PB6 - PB7	--	116
	PB7 - SB7	23	--
	PB7 - PB8	26	--
	PB7 - PB10	--	72
	PB8 - PB9	210	--
	PB10 - SB8	--	15
	PB10 - SB9	22	--
	PB10 - PB11	--	100
	PB11 - SB10	21	--
	PB11 - PB12	--	170
	PB12 - SB11	--	8
	PB12 - SB12	25	--
	PB12 - PB13	--	150
	PB13 - SB13	14	--
	PB13 - PB14	--	94
	PB14 - SB14	15	--
	PB14 - SB15	22	--
	PB14 - PB17	--	86
	PB15 - PB16	225	--
	PB17 - SB15	--	15
	PB17 - SB16	8	--
CATEGORY 0010 TOTAL		770	1,323

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

TRAFFIC SIGNAL REMOVALS

LOCATION / ITEM NUMBER	204.0195 * REMOVING CONCRETE BASES EACH	653.0905 REMOVING PULL BOXES EACH
CATEGORY 0010		
CTH VV & S MILITARY RD		
CB1	1	--
SB1	1	--
SB2	1	--
SB3	1	--
SB4	1	--
SB5	1	--
PB1	--	1
PB2	--	1
PB3	--	1
PB4	--	1
PB5	--	1
PB6	--	1
PB7	--	1
CATEGORY 0010 TOTAL	6	7

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

MONOTUBE STRUCTURES

LOCATION / BASE NUMBER	STATION	OFFSET	L/R	654.0113 CONCRETE BASES TYPE 13 EACH	SPV.0060.115 POLES TYPE 12 BLACK EACH	SPV.0060.116 MONOTUBE ARMS 35-FT BLACK EACH	SPV.0060.117 MONOTUBE ARMS 40-FT BLACK EACH	SPV.0060.118 MONOTUBE ARMS 50-FT BLACK EACH	SPV.0060.119 MONOTUBE ARMS 55-FT BLACK EACH
					FURNISH AND INSTALL				
CATEGORY 0010									
CTH VV & PRIVATE DRIVEWAY									
SB4	304+40 EB	60'	R	1	1	--	--	1	--
SB8	303+76 WB	41'	L	1	1	--	1	--	--
SB11	305+17 WB	56'	L	1	1	--	--	--	1
SB15	305+84 EB	39'	R	1	1	1	--	--	--
CATEGORY 0010 TOTAL				4	4	1	1	1	1

PEDESTRIAN PUSH BUTTONS

LOCATION / BASE NUMBER	658.0500 PEDESTRIAN PUSH BUTTONS EACH
CATEGORY 0010	
CTH VV & PRIVATE DRIVEWAY	
SB2	1
SB5	1
SB6	1
SB7	1
SB9	1
SB10	1
SB12	1
SB16	1
CATEGORY 0010 TOTAL	8

TRAFFIC SIGNAL PULL BOXES

LOCATION / PULL BOX NUMBER	STATION	OFFSET	L/R	SPV.0060.113 PULL BOX NON-CONDUCTIVE 24X36-INCH EACH	SPV.0060.114 * PULL BOX NON-CONDUCTIVE 24X42-INCH EACH
CATEGORY 0010					
CTH VV & PRIVATE DRIVEWAY					
PB1	305+62 EB	53'	R	--	1
PB2	305+19 EB	35'	R	--	1
PB3	305+23 EB	55'	R	1	--
PB4	304+83 EB	78'	R	1	--
PB5	304+51 EB	62'	R	--	1
PB6	303+85 EB	43'	R	--	1
PB7	303+85 EB	14'	L	--	1
PB8	303+60 EB	14'	L	1	--
PB9	301+55 EB	10'	L	1	--
PB10	303+85 WB	31'	L	--	1
PB11	304+26 WB	59'	L	--	1
PB12	305+10 WB	60'	L	--	1
PB13	305+56 WB	31'	L	1	--
PB14	305+65 WB	14'	R	--	1
PB15	305+85 WB	14'	R	1	--
PB16	307+94 WB	8'	R	--	1
PB17	305+72 EB	37'	R	--	1
CATEGORY 0010 TOTAL				6	11

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

TRAFFIC SIGNAL HEADS

LOCATION	SIGNAL BASE NO.	HEAD NO.	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0215 BACK PLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACK PLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
CATEGORY 0010														
CTH VV & PRIVATE DRIVEWAY														
	SB1	8	1	--	1	--	--	--	2	--	1	--	--	--
	SB2	2B	--	--	--	--	--	--	--	--	--	--	1	1
	SB2	2C	--	--	--	--	--	--	--	--	--	--	1	1
	SB2	24	1	--	--	--	--	1	2	--	1	--	--	--
	SB3	7	1	--	1	1	1	--	--	--	1	--	--	--
	SB4	22	1	--	1	1	1	--	--	--	1	--	--	--
	SB4	23	1	--	1	1	1	--	--	--	1	--	--	--
	SB4	25	1	--	--	--	--	1	2	--	1	--	--	--
	SB6	1	1	--	1	1	1	--	--	--	1	--	--	--
	SB6	8A	--	--	--	--	--	--	--	--	--	--	1	1
	SB6	19	--	1	--	--	--	1	2	1	--	1	--	--
	SB6	2D	--	--	--	--	--	--	--	--	--	--	1	1
	SB7	4	--	1	--	--	--	1	2	1	--	1	--	--
	SB7	8B	--	--	--	--	--	--	--	--	--	--	1	1
	SB7	8C	--	--	--	--	--	--	--	--	--	--	1	1
	SB7	20	--	1	--	--	--	1	2	1	--	1	--	--
	SB8	16	1	--	1	1	1	--	--	--	1	--	--	--
	SB8	17	1	--	1	1	1	--	--	--	1	--	--	--
	SB9	6A	--	--	--	--	--	--	--	--	--	--	1	1
	SB10	8D	--	--	--	--	--	--	--	--	--	--	1	1
	SB10	12	1	--	--	--	--	1	1	1	1	--	--	--
	SB10	21	1	--	1	1	1	--	--	--	1	--	--	--
	SB11	10	1	--	1	1	1	--	--	--	1	--	--	--
	SB11	11	1	--	1	1	1	--	--	--	1	--	--	--
	SB11	13	1	--	--	--	--	1	1	1	1	--	--	--
	SB11	14	1	--	--	--	--	1	1	1	1	--	--	--
	SB13	6B	--	--	--	--	--	--	--	--	--	--	1	1
	SB13	5	--	1	--	--	--	1	2	1	--	1	--	--
	SB13	15	1	--	1	1	1	--	--	--	1	--	--	--
	SB14	6	--	1	--	--	--	1	2	1	--	1	--	--
	SB14	9	1	--	1	--	--	--	2	--	1	--	--	--
	SB14	18	--	1	--	--	--	1	2	1	--	1	--	--
	SB15	2	1	--	1	1	1	--	--	--	1	--	--	--
	SB15	3	1	--	1	1	1	--	--	--	1	--	--	--
	SB15	2A	--	--	--	--	--	--	--	--	--	--	1	1
CATEGORY 0010 TOTAL			19	6	14	12	12	11	23	9	19	6	10	10

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

CONSTRUCTION STAKING

LOCATION	650.8500.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (4986-00-22) LS
CATEGORY 0010	
PROJECT	1
CATEGORY 0010 TOTAL	1

TRAFFIC SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.01 SIGNAL MOUNTING HARDWARE (CTH VV & PRIVATE DRIVEWAY) LS
CATEGORY 0010	
CTH VV & PRIVATE DRIVEWAY	1
CATEGORY 0010 TOTAL	1

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0105.102 FURNISH AND INSTALL EVP SYSTEM LS
CATEGORY 0010	
CTH VV & PRIVATE DRIVEWAY	1
CATEGORY 0010 TOTAL	1

TRAFFIC SIGNAL SYSTEM INTEGRATOR

LOCATION	SPV.0105.103 TRAFFIC SIGNAL SYSTEMS INTEGRATOR (4986-00-22) LS
CATEGORY 0010	
PROJECT	1
CATEGORY 0010 TOTAL	1

SALVAGE TRAFFIC SIGNAL

LOCATION	SPV.0105.104 SALVAGE TRAFFIC SIGNAL (CTH VV & S MILITARY RD) LS
CATEGORY 0010	
CTH VV & S MILITARY RD	1
CATEGORY 0010 TOTAL	1

TRAFFIC SIGNAL CABLE AND WIRE - BELOW GROUND

LOCATION	FROM	-	TO	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	655.0900 * TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CATEGORY 0010								
CTH VV & PRIVATE DRIVEWAY								
	CB1	-	SB1	47	--	--	--	--
	CB1	-	SB2	104	--	--	--	--
	CB1	-	SB3	137	--	--	--	--
	CB1	-	SB4	198	--	--	--	--
	CB1	-	SB5	321	--	--	--	--
	CB1	-	SB6	--	298	--	--	--
	CB1	-	SB7	368	--	368	--	--
	CB1	-	SB8	408	--	--	--	408
	CB1	-	SB9	415	--	--	--	--
	CB1	-	SB10	359	--	--	--	--
	CB1	-	SB11	246	--	--	--	--
	CB1	-	SB12	260	--	--	--	--
	CB1	-	SB13	178	--	--	--	--
	CB1	-	SB14	--	115	115	--	--
	CB1	-	SB15	58	--	--	--	58
	CB1	-	SB16	53	--	--	--	--
	SB1	-	SB2	--	--	--	105	--
	SB2	-	SB3	--	--	--	71	--
	SB3	-	SB4	--	--	--	165	--
	SB4	-	SB5	--	--	--	170	--
	SB5	-	SB6	--	--	--	95	--
	SB6	-	SB7	--	--	--	144	--
	SB7	-	SB8	--	--	--	112	--
	SB8	-	SB9	--	--	--	178	--
	SB9	-	SB10	--	--	--	130	--
	SB10	-	SB11	--	--	--	154	--
	SB11	-	SB12	--	--	--	54	--
	SB12	-	SB13	--	--	--	138	--
	SB13	-	SB14	--	--	--	115	--
	SB14	-	SB15	--	--	--	108	--
	SB15	-	SB16	--	--	--	44	--
CATEGORY 0010 TOTAL				3152	413	483	1783	466

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

TRAFFIC SIGNAL CABLE AND WIRE - ABOVE GROUND

LOCATION	FROM SIGNAL BASE	-	TO SIGNAL HEAD	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0610 * ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0700 * LOOP DETECTOR LEAD IN CABLE LF	655.0900 * TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CATEGORY 0010							
CTH VV & PRIVATE DRIVEWAY							
	SB1	-	HEAD 8	19	--	--	--
	SB2	-	HEAD 2B	15	--	--	--
	SB2	-	HEAD 2C	15	--	--	--
	SB2	-	HEAD 24	19	--	--	--
	SB2	-	BUTTON	--	--	6	--
	SB3	-	HEAD 7	19	--	--	--
	SB4	-	HEAD 22	60	--	--	--
	SB4	-	HEAD 23	26	--	--	--
	SB4	-	HEAD 25	75	--	--	--
	SB5	-	BUTTON	--	--	6	--
	SB6	-	HEAD 1	22	--	--	--
	SB6	-	HEAD 8A	15	--	--	--
	SB6	-	HEAD 19	22	--	--	--
	SB6	-	BUTTON	--	--	6	--
	SB6	-	HEAD 2D	15	--	--	--
	SB7	-	HEAD 4	22	--	--	--
	SB7	-	HEAD 8B	15	--	--	--
	SB7	-	HEAD 8C	15	--	--	--
	SB7	-	HEAD 20	22	--	--	--
	SB7	-	BUTTON	--	--	6	--
	SB7	-	LUMINAIRE	--	234	--	--
	SB8	-	HEAD 16	60	--	--	--
	SB8	-	HEAD 17	55	--	--	--
	SB8	-	EVP DETECTOR "A"	--	--	--	50
	SB9	-	BUTTON	--	--	6	--
	SB9	-	HEAD 6A	15	--	--	--
	SB10	-	HEAD 12	19	--	--	--
	SB10	-	HEAD 21	19	--	--	--
	SB10	-	BUTTON	--	--	6	--
	SB10	-	HEAD 8D	15	--	--	--
	SB11	-	HEAD 10	60	--	--	--
	SB11	-	HEAD 11	26	--	--	--
	SB11	-	HEAD 13	75	--	--	--
	SB11	-	HEAD 14	70	--	--	--
	SB12	-	BUTTON	--	--	6	--
	SB13	-	HEAD 6B	15	--	--	--
	SB13	-	HEAD 5	22	--	--	--
	SB13	-	HEAD 15	22	--	--	--
	SB14	-	HEAD 6	22	--	--	--
	SB14	-	HEAD 9	22	--	--	--
	SB14	-	HEAD 18	22	--	--	--
	SB14	-	LUMINARE	--	234	--	--
	SB15	-	HEAD 2	60	--	--	--
	SB15	-	HEAD 3	55	--	--	--
	SB15	-	HEAD 2A	15	--	--	--
	SB15	-	EVP DETECTOR "B"	--	--	--	50
	SB16	-	BUTTON	--	--	6	--
CATEGORY 0010 TOTAL				1,065	468	48	100

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

TRAFFIC SIGNAL CONTROL

LOCATION	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (CTH VV & PRIVATE DRIVEWAY) LS	SPV.0105.101 FURNISH AND INSTALL TRAFFIC SIGNAL CABINET AND CONTROLLER LS
CATEGORY 0010			
CTH VV & PRIVATE DRIVEWAY			
CB1	1	1	1
CATEGORY 0010 TOTAL	1	1	1

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	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
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		
POINT OF CURVATURE	PC		

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 LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT

SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS — CAUTION
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES — CAUTION
BRIDGE

R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN — IP
VALVE (GAS, WATER, ETC.) — (TYPE)
SIGN — SIGN
OFF-PREMISE SIGN — I-25 — SIGN

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

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

PARCEL NUMBER — 12
UTILITY NUMBER — 90

CONVENTIONAL UTILITY SYMBOLS

WATER — W
GAS — G
TELEPHONE — T
OVERHEAD TRANSMISSION LINES — OH
ELECTRIC — E
CABLE TELEVISION — TV
FIBER OPTIC — FO
SANITARY SEWER — SAN
STORM SEWER — SS

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
4986-00-21		
R/W PROJECT NUMBER	4.01	10

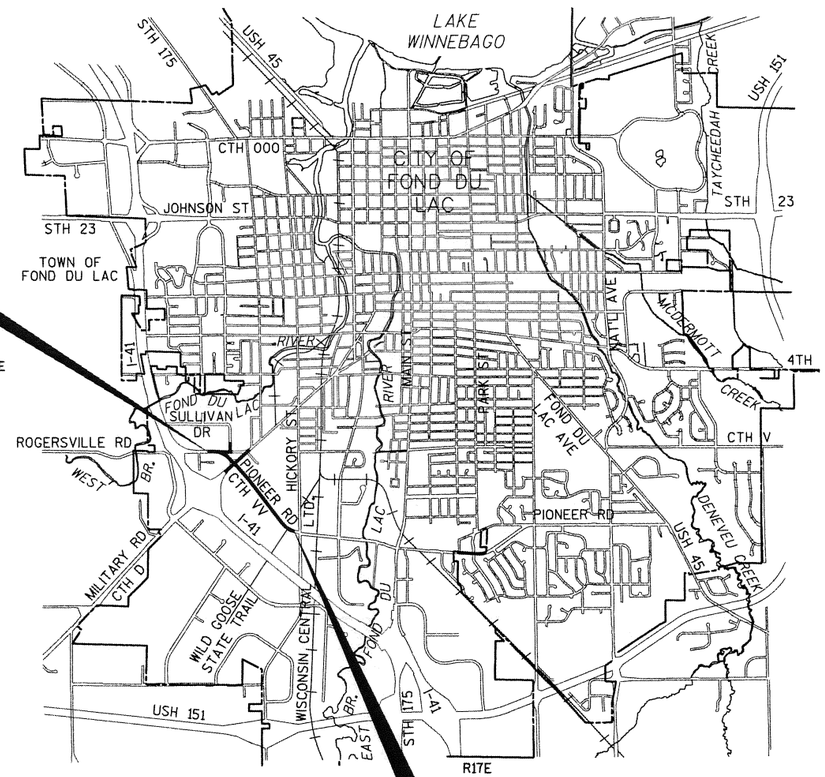
PLAT OF RIGHT OF WAY REQUIRED FOR

CITY OF FOND DU LAC, CTH VV

CTH VVV (HICKORY STREET) - ROGERSVILLE ROAD

CTH VV — FOND DU LAC COUNTY

4



BEGIN RELOCATION ORDER
172+30.00
Y 380206.45
X 809917.73
4.59' NORTH AND 2146.15' EAST OF THE SOUTHWEST CORNER OF SECTION 16, T15N, R17E

END RELOCATION ORDER
211+36.88
Y 377519.88
X 812573.04
18.59' NORTH AND 446.29' WEST OF THE EAST QUARTER CORNER OF SECTION 21, T15N, R17E

LAYOUT
SCALE 0 — 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.740 MILES

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, FOND DU LAC COUNTY, NAD83(1997), IN U.S. SURVEY FEET. VALUES 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 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS 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.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, 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 DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE 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 DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION REGION OFFICE IN GREEN BAY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
CTH VV, SOUTH PIONEER ROAD - CSM'S *3492, *1057, *391, *392, *4996, *3860, *5601, *6078 AND *2847.
CTH VV, WEST PIONEER ROAD - R/W PROJECT NUMBER 4831-04-21, CSM'S *242, *7519 AND ADJACENT SURVEYS OF RECORD.
ROGERSVILLE ROAD - CSM'S *392, *2847 AND ADJACENT SURVEYS OF RECORD.
SULLIVAN DRIVE - CSM *392 AND ADJACENT SURVEYS OF RECORD.
OAK PARK AVENUE - CSM *2128 AND ADJACENT SURVEYS OF RECORD.

4

REVISION DATE

APPROVED FOR FOND DU LAC COUNTY
11/6/2015 DATE
THOMAS JANKE
HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED BY

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac
85 South Pioneer Road, Suite 300 • Fond du Lac, WI 54935
(920) 924-5720 • fax (920) 924-5725

11/06/2015 DATE
JAY W. PANETTI, PLS

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT

DATE: _____ (Signature)

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\RW\49860021-040101-RP.DWG
LAYOUT NAME - 49860021-040101-RP-01-RW
PLOT DATE : 11/6/2015 8:46 AM PLOT BY : JAY PANETTI PLOT NAME :
WISDOT/CADDS SHEET 50

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN ON THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES (EXISTING)	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TOTAL ACRES REMAINING	P.L.E. ACRES PERM.	T.L.E. ACRES TEMP.	TAX KEY NUMBER
1	4.04	PIONEER ROAD GARAGE, LLC	FEE, TLE	5.540	0.22	0	0.22	5.320	0	0.43	FDL-15-17-16-34-759-00
2	4.04	ELSINGER AND STREAN, LLC	TLE	2.048	0	0	0	2.048	0	0.06	FDL-15-17-21-21-004-00
3	4.04	ANR PIPELINE COMPANY	TLE	0.613	0	0	0	0.613	0	0.03	FDL-15-17-21-21-003-00
4	4.04	WISCONSIN POWER & LIGHT COMPANY	TLE	0.183	0	0	0	0.183	0	0.02	FDL-15-17-21-21-002-00
6	4.04, 4.05	AIRGAS-NORTH CENTRAL, INC.	FEE, TLE	2.960	0.14	0	0.14	2.820	0	0.70	FDL-15-17-16-43-523-00
7	4.04, 4.06	MILLS PROPERTIES, INC.	FEE, TLE	1.821	0.06	0	0.06	1.761	0	0.23	FDL-15-17-21-12-258-00
8	4.05	MILLS PROPERTIES, INC.	TLE	10.900	0	0	0	10.900	0	0.13	FDL-15-17-16-43-519-00
9	4.06	MILLS PROPERTIES, INC.	FEE, TLE	1.900	0.07	0	0.07	1.830	0	0.33	FDL-15-17-21-12-257-00
10	4.05	MILLS PROPERTIES, INC.	FEE, TLE	2.000	0.02	0	0.02	1.980	0	0.06	FDL-15-17-16-43-518-00
11	4.06	HARMONY HOLDINGS I, INC.	FEE, TLE	1.429	0.13	0	0.13	1.299	0	0.08	FDL-15-17-21-12-259-00
12	4.06	MANOWSKE INVESTMENTS, LLC	FEE, TLE	2.461	0.02	0	0.02	2.441	0	0.28	FDL-15-17-21-12-256-01
13	4.05	FRENCHIES OF FONDY, LLC	TLE	0.624	0	0	0	0.624	0	0.05	FDL-15-17-16-43-524-00
16	4.05	740 S MILITARY ROAD LLC	FEE, TLE	0.895	0.003	0	0.003	0.892	0	0.01	FDL-15-17-16-43-512-00
19	4.06, 4.08	MARINE CREDIT UNION	TLE	2.125	0	0	0	2.125	0	0.23	FDL-15-17-21-12-255-00
21	4.06, 4.08, 4.09,	MERCURY MARINE DIVISION OF BRUNSWICK CORPORATION	FEE, PLE, TLE	81.722	0.90	0	0.90	80.822	0.22	1.09	FDL-15-17-21-13-500-00
	4.10		FEE, TLE	1.430	0.04	0	0.04	1.390	0	0.04	FDL-15-17-21-41-001-00
22	4.08, 4.09, 4.10	MERCURY MARINE DIVISION OF BRUNSWICK CORPORATION	FEE, TLE	58.715	0.10	0	0.10	58.615	0	0.92	FDL-15-17-21-11-007-00
23	4.10	PIONEER & HICKORY LLC	FEE, TLE	9.114	0.002	0	0.002	9.112	0	0.24	FDL-15-17-21-14-752-00

NOTE: THE PURPOSE FOR TLE'S IS FOR DRIVEWAYS AND SLOPES UNLESS OTHERWISE NOTED.

91	4.04, 4.05, 4.06, 4.08	AT&T WISCONSIN	RELEASE OF RIGHTS
92	4.04, 4.05, 4.06, 4.08	ALLIANT ENERGY	RELEASE OF RIGHTS
93	4.04, 4.06, 4.08, 4.09, 4.10	ANR PIPELINE COMPANY	RELEASE OF RIGHTS
94	4.04, 4.05, 4.06	CITY OF FOND DU LAC	RELEASE OF RIGHTS
95	4.04, 4.05, 4.06	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS

4

4

REVISION DATE

DATE 11/06/2015

GRID FACTOR N/A

SCALE. FEET

0 --- ---

HWY: CTH VV

COUNTY: FOND DU LAC

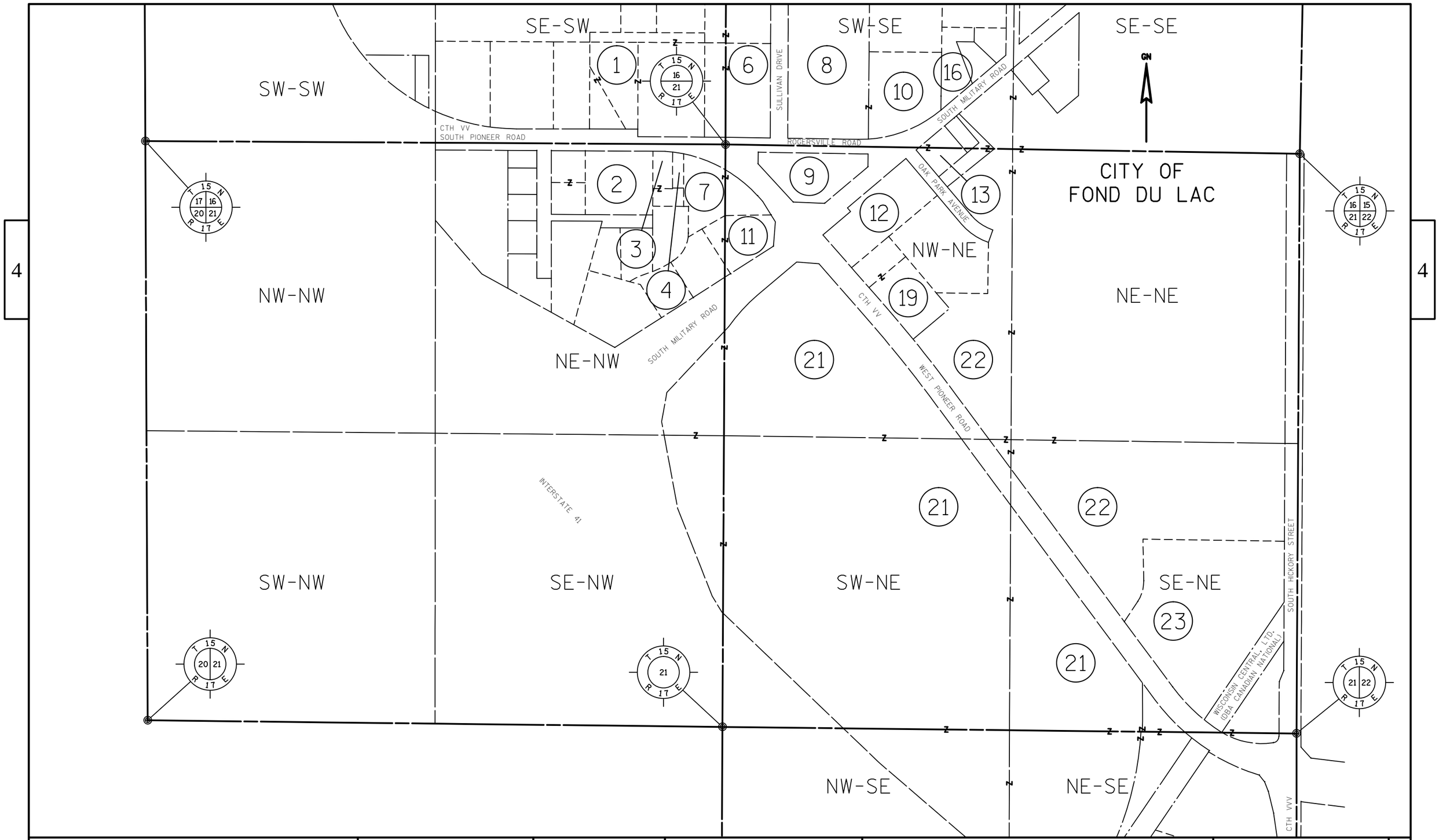
STATE R/W PROJECT NUMBER 4986-00-21

CONSTRUCTION PROJECT NUMBER 4986-00-22

PLAT SHEET 4.02

PS&E SHEET --239

E



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REVISION DATE	DATE 11/06/2015	SCALE, FEET 0 200 400	HWY: CTH VV	STATE R/W PROJECT NUMBER 4986-00-21	PLAT SHEET 4.03
	GRID FACTOR N/A		COUNTY: FOND DU LAC	CONSTRUCTION PROJECT NUMBER 4986-00-22	PS&E SHEET --240 E

FILE NAME : 49860021-040102-RP.DWG
LAYOUT NAME - 49860021-040102-RP-03-RW

PLOT DATE : 11/6/2015 8:38 AM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 75

CITY OF FOND DU LAC

SE-SW

SEC. 16, T15N, R17E

PARCEL 1 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
1	300	N00°12'03"E	33.00'
300	301	N89°39'42"W	48.48'
301	302	N89°39'42"W	351.29'
302	303	N00°11'18"E	34.67'
303	304	S89°53'45"E	150.15'
*304	*301	S79°43'00"E	204.30'

*SEE CURVE TABLE

PARCEL 1 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
300	301	N89°39'42"W	48.48'
*301	*304	N79°43'00"W	204.30'
304	303	N89°53'45"W	150.15'
303	501	N89°53'45"W	98.77'
501	502	N63°16'14"E	110.77'
502	503	S89°53'45"E	303.91'
503	504	S00°11'18"W	46.92'
504	505	S72°02'52"E	31.05'
505	506	S89°18'17"E	66.29'
506	300	S00°12'03"W	29.18'

*SEE CURVE TABLE

BEGIN RELOCATION ORDER
172+30.00
Y 380206.45
X 809917.73
4.59' NORTH AND 2146.15' EAST OF THE SOUTHWEST CORNER OF SECTION 16, T15N, R17E

LOT 1 CSM #3492 V19/P51 DOC. #446337

CURVE DATA
R/L CURVE 1
PI 177+10.49
Y 380205.574
X 810398.220
DELTA 47°21'44"
D 8°30'00"
T 295.63'
L 557.20'
R 674.07'
PC 174+14.86
Y 380206.111
X 810102.590
PT 179+72.06
Y 379987.730
X 810598.073
TAN BK S89°53'45"E
TAN AH S42°32'01"E
LC 541.47'
LCB S66°12'53"E

CONVEYANCE OF RIGHTS V663/P297
RELEASE OF EASEMENT V785/P731
AGREEMENT V557/P420
RIGHT-OF-WAY GRANT V405/P410
30' UTILITY EASEMENT DOC. #793346
12' UTILITY EASEMENT DOC. #793346

CSM #1057 V7/P17 DOC. #291706
CSM #1547 V9/P47 DOC. #316409
CSM #391 V3/P190 DOC. #266539
CSM #392 V3/P191 DOC. #266540

FDL-15-17-16-34-759-00
PIONEER ROAD GARAGE, LLC

FDL-15-17-16-43-523-00
AIRGAS-NORTH CENTRAL, INC.

Y 382845.027
X 810425.435
MAG NAIL

QUARTER LINE N00°12'03"E 2658.81'
MATCH LINE SEE SHEET 4.05

SLOPE INTERCEPT, TYP.

PROPOSED R/W
TLE
PC: 174+14.86

10' UTILITY EASEMENT DOC. #793347

SOUTH PIONEER ROAD
CTH VV
175+73.86 SECTION LINE S89°39'42"E 2644.58'
BP: 170+00.00
R/L S89°53'45"E
PT: 11+60.97
R/L CURVE 1
R/L CURVE 4
177+69.70= BP: 10+00.00

SIXTEENTH LINE

NE-NW

SEC. 21, T15N, R17E

LOT 1 CSM #3787 V21/P26

BRASS CAP
Y 380201.860
X 807771.586

PARCELS 2, 3, 4 & 7 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
1	509	S00°17'33"W	114.97'
509	510	S00°17'33"W	11.57'
*510	*511	N64°34'19"W	114.23'
511	512	S20°05'28"W	55.85'
512	513	N72°50'57"W	70.71'
513	514	N00°03'01"E	51.16'
*514	*515	N84°03'47"W	123.80'
515	516	N89°53'45"W	184.86'
516	507	N00°06'15"E	14.73'
507	508	S89°39'42"E	223.19'
*508	*509	S73°04'27"E	287.14'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
304	301	578.00'	205.38'	S79°43'00"E	204.30'
301	304	578.00'	205.38'	N79°43'00"W	204.30'
510	511	614.07'	114.40'	N64°34'19"W	114.23'
514	515	609.07'	124.01'	N84°03'47"W	123.80'
508	509	624.07'	289.74'	S73°04'27"E	287.14'

TRIANGLE ROAD

LOT 1 CSM #6304 V43/P3
LOT 2 CSM #6304 V43/P3
10' UTILITY EASEMENT DOC. #417484
7.5' UTILITY EASEMENT DOC. #590298
7.5' UTILITY EASEMENTS DOC. #411961 DOC. #417484
FDL-15-17-21-21-004-00
ELSINGER AND STREAN, LLC

LOT 1 CSM #4996 V30/P51 DOC. #588675
ASSIGNMENT OF LEASES AND RENTS DOC. #803689

OUTLOT 1 CSM #3860 V21/P99 DOC. #478328
FDL-15-17-21-003-00
ANR PIPELINE COMPANY
30' R/W GRANT DOC. #479240
RIGHT-OF-WAY

FDL-15-17-21-002-00
WIS POWER & LIGHT COMPANY
RR SPIKE
24' INGRESS/EGRESS EASEMENT DOC. #694876

LOT 1 CSM #3380 V18/P103 DOC. #432535
RIGHT-OF-WAY CONTRACT AND UTILITY EASEMENT V1333/P390
SIGN EASEMENT V1412/P673
ALUMINUM MONUMENT
15' UTILITY EASEMENT V1473/P749
15' UTILITY EASEMENT V1367/P320

Y 380186.238
X 810416.119

FDL-15-17-21-12-258-00
MILLS PROPERTIES, INC.

LOT 1 CSM #5601 V35/P95 DOC. #653772
30' INGRESS/EGRESS EASEMENT DOC. #694876
10' UTILITY EASEMENT

LOT 1 CSM #6078 V40/P59

MATCH LINE QUARTER LINE SEE SHEET 4.06
S00°17'33"W 2655.37'

REVISION DATE	DATE 11/06/2015	SCALE, FEET 0 50 100	HWY: CTH VV	STATE R/W PROJECT NUMBER 4986-00-21	PLAT SHEET 4.04	
	GRID FACTOR N/A		COUNTY: FOND DU LAC	CONSTRUCTION PROJECT NUMBER 4986-00-22	PS&E SHEET --241	E

FILE NAME : 49860021-040102-RP.DWG
LAYOUT NAME - 49860021-040102-RP-04-RW
PLOT DATE : 11/6/2015 8:39 AM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

PARCEL 6 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
1	300	N00°12'03"E	33.00'
300	306	S89°04'25"E	115.15'
306	307	N38°32'10"E	64.29'
*307	*309	N19°22'25"E	149.68'
309	310	S00°12'40"W	192.94'
310	306	N89°04'20"W	89.01'

*SEE CURVE TABLE

PARCEL 6 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
300	506	N00°12'03"E	29.18'
506	520	S89°18'17"E	89.15'
520	521	N00°12'40"E	240.45'
521	522	S89°47'20"E	115.00'
522	309	S00°12'40"W	78.49'
*309	*307	S19°22'25"W	149.68'
307	306	S38°32'10"W	64.29'
306	300	N89°04'25"W	115.15'

*SEE CURVE TABLE

PARCEL 8 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
1	523	S89°04'20"E	283.74'
523	524	N00°55'40"E	33.00'
524	525	N00°12'40"E	232.42'
525	526	S89°47'20"E	25.00'
526	527	S00°12'40"W	232.74'
527	524	N89°04'20"W	25.00'

PARCELS 10 & 16 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
1	311	S89°04'20"E	831.80'
311	312	N49°51'20"E	277.63'
312	313	N40°08'40"W	33.00'
313	314	S49°51'20"W	50.64'
*314	*316	S56°12'06"W	126.66'
316	317	N49°51'20"E	36.52'
317	313	N55°33'59"E	140.70'

*SEE CURVE TABLE

PARCELS 10 & 16 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
313	317	S55°33'59"W	140.70'
317	316	S49°51'20"W	36.52'
*316	*528	S74°25'59"W	235.85'
528	529	N00°28'36"E	4.98'
*529	*530	N75°29'31"E	212.35'
530	531	N49°51'20"E	56.81'
531	532	N55°33'59"E	160.77'
532	533	S40°08'40"E	8.00'
533	313	S49°51'20"W	20.47'

*SEE CURVE TABLE

PARCEL 13 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
1	640	S89°04'20"E	882.03'
640	641	N49°51'20"E	153.48'
641	642	S40°13'17"E	15.00'
642	643	S49°51'20"W	81.75'
643	644	N40°08'40"W	5.00'
644	645	S49°51'20"W	88.57'
645	646	N40°13'17"W	10.00'
646	640	N49°51'20"E	16.84'

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
307	309	228.00'	152.51'	N19°22'25"E	149.68'
309	307	228.00'	152.51'	S19°22'25"W	149.68'
314	316	572.96'	126.92'	S56°12'06"W	126.66'
316	528	572.96'	237.55'	S74°25'31"W	235.86'
529	530	567.96'	213.60'	N75°29'31"E	212.35'

Y 382845.027
X 810425.435

GN

MAG NAIL

T 15 N R 17 E 16 22

CITY OF FOND DU LAC

SULLIVAN DRIVE

80'

P.L.

3/4" BAR

QUARTER LINE N00°12'03"E 2658.81'

CSM #392 V3/P191 DOC. #266540

6

FDL-15-17-16-43-523-00 AIRGAS-NORTH CENTRAL, INC.

DOC. #867090

EP: 25+00.00

SW-SE

SEC. 16, T15N, R17E

CONSTRUCTION AND MAINTENANCE EASEMENT V570/P158

FIRST AMENDMENT TO MORTGAGE AND SECURITY AGREEMENT AND FIXTURE FINANCING STATEMENT AND FIRST AMENDMENT TO ASSIGNMENT OF LEASES AND RENTS DOC. #1038102

SLOPE INTERCEPT, TYP.

8

FDL-15-17-16-43-519-00 MILLS PROPERTIES, INC.

UTILITY EASEMENT V653/P555

CONVEYANCE OF RIGHTS V385/P91 V385/P553

RIGHT-OF-WAY CONTRACT AND UTILIITY EASEMENT V329/P54

MORTGAGE AND SECURITY AGREEMENT AND FIXTURE FINANCING STATEMENT DOC. #1008792

ASSIGNMENT OF LEASES AND RENTS DOC. #1008793

10

FDL-15-17-16-43-518-00 MILLS PROPERTIES, INC.

92 — 23+00 40' TLE (522); 23+00 155' TLE (521)

95

94 — 12+44.50= BP: 20+00.00; 20+27.58 40' TLE (524); 20+27.26 65' TLE (527)

91 — 22+60 40' TLE (525); 22+60 65' TLE (526); 176+92.86 108.49' TLE (506–520); 11+10.42 70.58' TLE; 16+51.69 25.95' TLE (528); 16+51.70 30.96' TLE (529); 54+66.84= EP: 18+44.65; 55+88.02 57' TLE; 55+88.52 47' FEE; 55+51.50 57' TLE; 55+31.71 47' FEE; 55+31.71 57' TLE; 57+28.02 33' FEE (315)

22+20.72 40' FEE (309); 11+55.15 79.88' FEE (307); 11+23.20 34.74' FEE (306)

SEE SHEET 4.04

Y 380186.238
X 810416.119

ALUMINUM MONUMENT

MATCH LINE

BLDG

12' UTILITY EASEMENT

PROPOSED R/W

DOC. #953477 10' UTILITY EASE.

PT: 11+60.97

R/L S89°38'02"E

ROGERSVILLE ROAD

3/4" BAR

R/L CURVE 1

R/L CURVE 4

177+69.70= BP: 10+00.00

15' UTILITY EASEMENT DOC. #958976

MATCH LINE SEE SHEET 4.06

CURVE DATA R/L CURVE 1

PI	177+10.49
Y	380205.574
X	810398.220
DELTA	47°21'44"
D	8°30'00"
T	295.63'
L	557.20'
R	674.07'
PC	174+14.86
Y	380206.111
X	810102.590
PT	179+72.06
Y	379987.730
X	810598.073
TAN BK	S89°53'45"E
TAN AH	S42°32'01"E
LC	541.47'
LCB	S66°12'53"E

CURVE DATA R/L CURVE 4

PI	10+88.04
Y	380188.307
X	810488.690
DELTA	57°38'38"
D	35°48'36"
T	88.04'
L	160.97'
R	160.00'
PC	10+00.00
Y	380114.238
X	810441.098
PT	11+60.97
Y	380187.744
X	810576.728
TAN BK	N32°43'19"E
TAN AH	S89°38'02"E
LC	154.27'
LCB	N61°32'39"E

INGRESS/EGRESS EASEMENT AGREEMENT DOC. #1054713

GROUNDWATER USE RESTRICTION DOC. #688479

SUBORDINATION AGREEMENTS DOC. #977615 DOC. #977727

RESTRICTIONS V374/P337

SEYMOUR STREET

SOUTH MILITARY ROAD

66'

16

FDL-15-17-16-43-512-00 740 S MILITARY ROAD LLC

57+48.49 33' TLE (533); 57+48.49 41' TLE (532); 1"IP

EP: 58+00.00

SLOPE EASEMENT V324/P141

UTILITY EASEMENT V322/P50

SIXTEENTH LINE

T 15 N R 17 E 2 16 15 21 22

CHISELED CROSS

R/L N49°51'20"E

56+41.73 33' TLE (641); 56+41.75 48' TLE (642)

13

55+60 48' TLE (643); 55+60 43' TLE (644); 54+71.43 43' TLE (645)

FDL-15-17-16-43-524-00 FRENCHIES OF FONDY, LLC

54+50.39

SECTION LINE S89°04'20"E 2618.36'

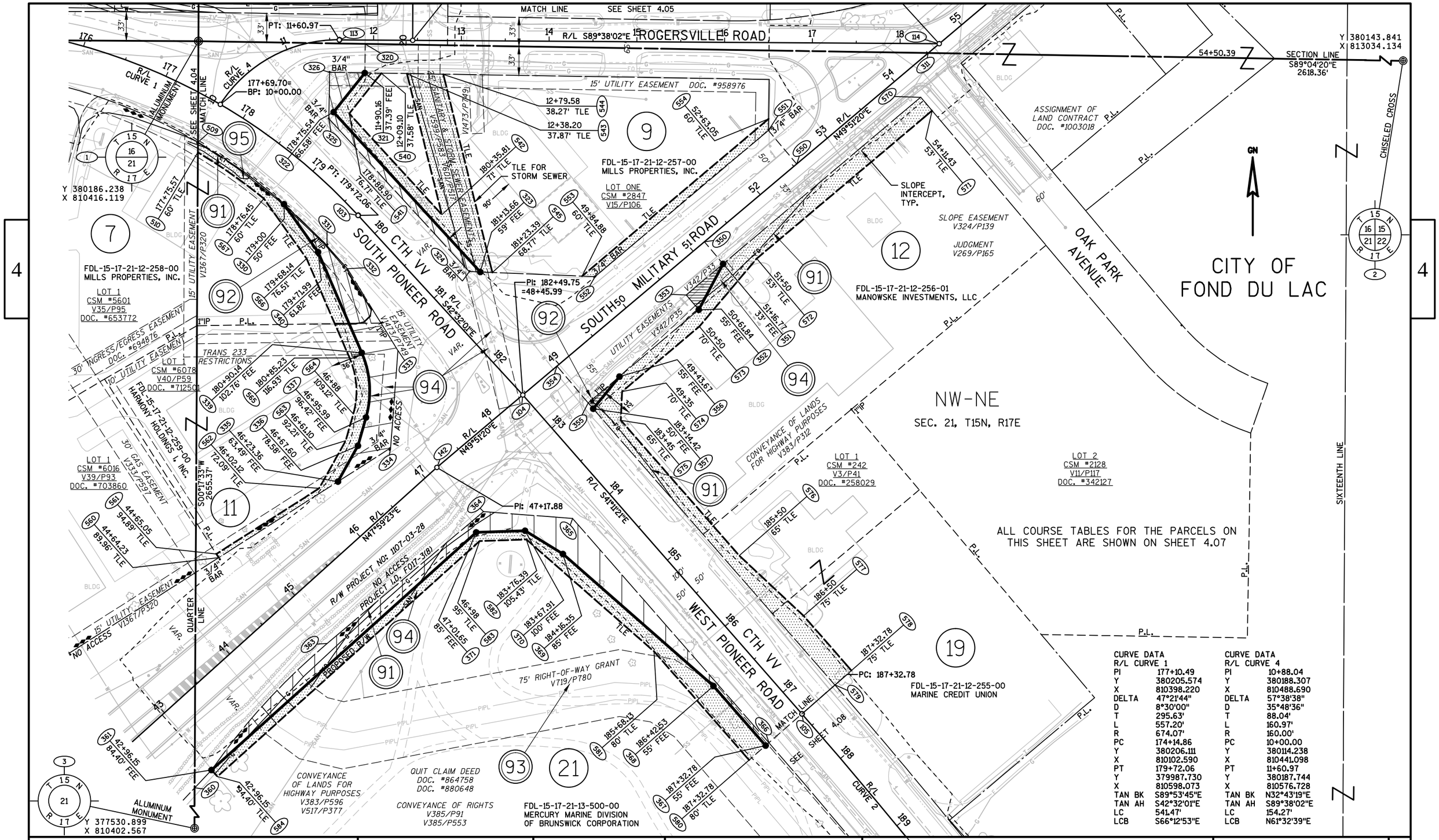
Y 380143.841
X 813034.134

REVISION DATE	DATE 11/06/2015	SCALE, FEET 0 50 100	HWY: CTH VV	STATE R/W PROJECT NUMBER 4986-00-21	PLAT SHEET 4.05	
	GRID FACTOR N/A		COUNTY: FOND DU LAC	CONSTRUCTION PROJECT NUMBER 4986-00-22	PS&E SHEET --242	E

FILE NAME : 49860021-040102-RP.DWG
LAYOUT NAME - 49860021-040102-RP-05-RW

PLOT DATE : 11/6/2015 8:39 AM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75



REVISION DATE	DATE 11/06/2015	SCALE, FEET 0 50 100	HWY: CTH VV	STATE R/W PROJECT NUMBER 4986-00-21	PLAT SHEET 4.06	
	GRID FACTOR N/A		COUNTY: FOND DU LAC	CONSTRUCTION PROJECT NUMBER 4986-00-22	PS&E SHEET --243	E

FILE NAME : 49860021-040102-RP.DWG
LAYOUT NAME - 49860021-040102-RP-06-RW
PLOT DATE : 11/6/2015 8:39 AM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 75

PARCELS 7 & 11 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
1	509	S00°17'33"W	114.97'
*509	*330	S54°12'58"E	120.87'
*330	*331	S45°35'46"E	66.68'
331	332	S42°32'01"E	36.57'
332	333	S31°40'11"E	109.62'
333	334	S04°17'01"W	111.22'
334	335	S57°26'05"W	71.25'
335	336	N29°09'13"E	46.74'
336	337	N15°50'17"E	33.53'
*337	*339	N03°47'34"W	73.91'
339	340	N23°25'25"W	125.04'
340	330	N35°27'16"W	67.04'

*SEE CURVE TABLE

PARCELS 7 & 11 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
*509	*330	S54°12'58"E	120.87'
330	340	S35°27'16"E	67.04'
340	339	S23°25'25"E	125.04'
*339	*337	S03°47'34"E	73.91'
337	336	S15°50'17"W	33.53'
336	335	S29°09'13"W	46.74'
335	560	S57°26'05"W	161.32'
560	561	N32°33'33"W	5.00'
561	562	N57°26'05"E	138.96'
562	563	N29°09'13"E	62.31'
563	564	N15°50'17"E	31.78'
*564	*565	N03°47'34"W	63.83'
565	566	N23°25'25"W	123.46'
566	567	N35°27'16"W	83.97'
*567	*510	N54°56'52"W	91.81'
510	509	N00°17'33"E	11.57'

*SEE CURVE TABLE

PARCEL 9 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
1	320	S89°04'20"E	190.12'
320	321	S00°55'40"W	33.00'
321	322	S38°32'10"W	57.11'
322	323	S42°32'01"E	247.29'
323	324	N87°39'00"W	12.70'
324	325	N42°32'01"W	236.49'
325	326	N00°55'40"E	52.76'
326	321	S89°04'20"E	40.12'

PARCEL 9 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
321	540	S89°04'20"E	18.93'
540	541	S38°32'10"W	58.87'
541	542	S42°32'01"E	156.14'
542	543	N13°54'20"W	165.48'
543	544	S89°04'20"E	41.38'
544	545	S13°54'20"E	232.83'
545	323	N87°39'00"W	13.78'
323	322	N42°32'01"W	247.29'
322	321	N38°32'10"E	57.11'
1	311	S89°04'20"E	831.80'
311	550	S49°51'20"W	196.05'
550	551	N40°08'40"W	50.00'
551	552	S49°51'20"W	258.54'
552	553	N87°39'00"W	14.80'
553	554	N49°51'20"E	278.17'
554	551	S00°55'40"W	13.26'

PARCEL 12 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
1	311	S89°04'20"E	831.80'
311	350	S49°51'20"W	333.62'
350	351	S40°08'40"E	33.00'
351	352	S28°01'38"W	59.17'
352	353	N40°08'40"W	22.00'
353	351	N49°51'20"E	54.92'
1	311	S89°04'20"E	831.80'
311	354	S49°51'20"W	553.38'
354	355	S40°08'40"E	55.00'
355	356	N49°51'20"E	46.66'
356	357	S39°12'29"W	47.32'
357	355	N41°11'21"W	8.74'

PARCELS 12 & 19 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
351	570	N49°51'20"E	294.65'
570	571	S40°10'58"E	20.00'
571	572	S49°51'20"W	261.43'
572	573	S40°12'27"W	101.43'
573	574	S49°51'20"W	115.00'
574	575	S02°40'18"W	32.78'
575	576	S41°11'21"E	205.00'
576	577	S46°53'59"E	100.50'
577	578	S41°11'21"E	82.78'
578	579	S48°48'39"W	25.00'
579	357	N41°11'21"W	418.37'
357	356	N39°12'29"E	47.32'
356	352	N49°51'20"E	118.18'
352	351	N28°01'38"E	59.17'

PARCEL 21 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
1	360	S00°17'33"W	851.13'
360	361	N43°14'53"E	28.06'
*361	*363	N42°24'07"E	195.20'
363	364	N49°51'00"E	233.25'
364	365	S85°40'00"E	101.87'
365	366	S41°11'21"E	339.80'
366	367	S48°48'39"W	5.00'
367	368	N41°11'21"W	90.25'
368	369	N48°44'42"W	228.16'
369	370	N58°23'40"W	50.71'
370	371	S88°06'24"W	55.70'
371	361	S48°04'28"W	405.49'

*SEE CURVE TABLE

PARCEL 21 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
361	371	N48°04'28"E	405.49'
371	370	N88°06'24"E	55.70'
370	369	S58°23'40"E	50.71'
369	368	S48°44'42"E	228.16'
368	367	S41°11'21"E	90.25'
367	580	S48°48'39"W	25.00'
580	581	N41°11'21"W	164.65'
581	582	N48°44'42"W	193.42'
582	583	S88°06'24"W	53.22'
583	584	S48°04'28"W	401.85'
584	361	N41°55'32"W	10.00'

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
509	330	624.07'	121.06'	S54°12'58"E	120.87'
330	331	624.07'	66.72'	S45°35'46"E	66.68'
337	339	110.00'	75.38'	N03°47'34"W	73.91'
339	337	110.00'	75.38'	S03°47'34"E	73.91'
564	565	95.00'	65.10'	N03°47'34"W	63.83'
567	510	614.07'	91.90'	N54°56'52"W	91.81'
361	363	752.93'	195.75'	N42°24'07"E	195.20'

ALL COURSE TABLES ON THIS SHEET ARE FOR THE PARCELS SHOWN ON SHEET 4.06

ALL COORDINATE TABLES SHOWN ON THIS SHEET ARE FOR ALL POINTS SHOWN ON THIS PLAT.

COORDINATE TABLE

POINT	Y	X
1	380186.2380	810416.1190
2	380143.8410	813034.1340
3	377530.8990	810402.5670
8	377501.0170	813019.4440
21	380201.8600	807771.5860
22	382845.0270	810425.4350
100	380206.8650	809687.7323
101	380206.1114	810102.5896
103	379987.7296	810598.0730
104	379783.1060	810785.7969
105	379419.6053	811103.8973
107	379060.0759	811393.7878
108	377683.8024	812414.7655
110	377357.4458	812894.9351
111	380114.2380	810441.0979
113	380187.7444	810576.7284
114	380183.3772	811260.3886
120	380187.2108	810660.2583
121	380687.2074	810662.1006
140	379222.0640	810152.6900
141	379315.1267	810260.0091
142	379700.5094	810687.8641
143	380398.1691	811515.0622
300	380219.2379	810416.2346
301	380219.5243	810367.7594
302	380221.5994	810016.4745
303	380256.2677	810016.5886
304	380255.9949	810166.7424
306	380217.3759	810531.3686
307	380267.6646	810571.4217
309	380408.8700	810621.0748
310	380215.9347	810620.3638
311	380172.7693	811247.8111
312	380351.7609	811460.0371
313	380376.9869	811438.7615
314	380344.3411	811400.0542
316	380273.8836	811294.7995
317	380297.4287	811322.7163

POINT	Y	X
320	380183.1596	810606.2128
321	380150.1639	810605.6785
322	380105.4948	810570.1012
323	379923.2747	810737.2719
324	379923.7955	810724.5804
325	380098.0613	810564.7072
326	380150.8136	810565.5615
330	380000.5885	810513.5877
331	379953.9285	810561.2290
332	379926.9816	810585.9503
333	379833.6833	810643.5045
334	379722.7766	810635.1973
335	379684.4236	810575.1464
336	379725.2407	810597.9150
337	379757.5008	810607.0668
339	379831.2498	810602.1778
340	379945.9815	810552.4728
350	379957.6784	810992.7831
351	379932.4524	811014.0587
352	379880.2243	810986.2566
353	379897.0416	810972.0729
354	379815.9939	810824.7913
355	379773.9506	810860.2506
356	379804.0344	810895.9202
357	379767.3703	810866.0091
360	379335.1153	810411.7751
361	379355.5522	810430.9990
363	379499.6951	810562.6284
364	379650.0897	810740.9117
365	379642.3925	810842.4939
366	379386.6779	811066.2704
367	379383.3851	811062.5077
368	379451.3046	811003.0712
369	379601.7533	810831.5481
370	379628.3292	810788.3589
371	379626.4890	810732.6910

POINT	Y	X
380	378822.4290	813026.7890
381	378843.6186	811492.1088
382	378843.9139	811470.7227
383	378999.8785	811355.0216
384	379030.2859	811353.6311
385	379054.8460	811329.0562
390	378054.2777	812077.6752
391	378044.1491	812064.0219
392	378205.6316	811944.2274
393	378309.1572	811882.3692
394	378529.0499	811719.2435
395	378582.1354	811664.9210
396	378113.8576	812157.9885
397	378149.9986	812131.1776
398	378131.7315	812182.0826
400	377504.8881	812680.4416
401	377713.5923	812454.9222
402	378001.4188	812241.4003
403	378047.4025	812244.6414
410	377506.8270	812510.6449
411	377480.7938	812541.8596
412	377476.6469	812539.0403
413	377651.0335	812370.5931
414	377800.5138	812259.7023
415	377907.2847	812173.2527
416	377925.0017	812129.9983
417	377997.2837	812076.3764
418	377654.0125	812374.6088
500	380206.4472	809917.7319
501	380256.4471	809917.8227
502	380306.2675	810016.7530
503	380305.7154	810320.6618
504	380258.7913	810320.5075
505	380249.2200	810350.0487
506	380248.4156	810416.3369

POINT	Y	X
507	380156.1821	809917.6406
508	380154.8637	810140.8262
509	380071.2661	810415.5322
510	380059.6956	810415.4732
511	380108.7448	810312.3065
512	380056.2933	810293.1211
513	380077.1432	810225.5601
514	380128.3064	810225.6051
515	380141.1115	810102.4715
516	380141.4473	809917.6138
520	380247.3338	810505.4788
521	380487.7799	810506.3647
522	380487.3562	810621.3640
523	380181.6436	810699.8253
524	380214.6392	810700.3596
525	380447.0617	810701.2160
526	380446.9696	810726.2159
527	380214.2344	810725.3583
528	380210.5578	811067.6047
529	380215.5710	811067.6464
530	380268.7680	811273.2232
531	380305.3944	811316.6504
532	380396.3018	811449.2497
533	380390.1842	811454.4093
540	380149.8573	810624.6106
541	380103.8078	810587.9338
542	379988.7543	810693.4851
543	380149.3859	810653.7162
544	380148.7159	810695.0898
545	379922.7095	810751.0439
550	380046.3713	811097.9441
551	380084.5924	811065.7083
552	379917.9068	810868.0733
553	379918.5138	810853.2823
554	380097.8553	811065.9231

POINT	Y	X
560	379597.5900	810439.1876
561	379601.8042	810436.4967
562	379676.5989	810553.6057
563	379731.0189	810583.9623
564	379761.5946	810592.6362
565	379825.2869	810588.4139
566	379938.5682	810539.3373
567	380006.9673	810490.6310
570	380122.4155	811239.2933
571	380107.1358	811252.1979
572	379938.5899	811052.3572
573	379861.1232	810986.8750
574	379786.9809	810898.9664
575	379754.2328	810897.4383
576	379599.9624	811032.4407
577	379531.2940	811105.8209
578	379468.9964	811160.3377
579	379452.5327	811141.5242
580	379366.9214	811043.6942
581	379490.8306	810935.2610
582	379618.3731	810789.8527
583	379616.6148	810736.6623
584	379348.1121	810437.6807
590	378841.4474	811649.3598
591	378841.8816	811617.9096
592	379089.8658	811433.9445
593	379104.7608	811454.0228
594	378844.0007	811464.4326
595	378902.0336	811421.3814
596	378996.5001	811316.4360
597	379152.2097	811196.8780
598	379222.2239	811166.0951

POINT	Y	X
600	378755.1970	811713.3440
601	378737.1920	811714.2496
602	378552.4712	811851.2833
603	378550.3978	811865.2726
604	378498.1941	811903.9995
605	378492.2361	811895.9682
606	378140.8650	812156.6301
610	378041.1701	812060.0062
611	378202.8529	811940.0631
612	378263.2428	811903.9792
613	378535.2524	811702.1910
614	378554.5561	811644.2914
615	378642.9009	811578.7536
616	378691.7086	811577.4094
620	378179.3954	812246.3333
621	378163.9768	812320.0275
623	378101.8668	812294.9267
624	378032.7254	812249.3039
625	377728.4873	812475.0005
626	377648.4871	812542.8414
630	377472.7369	812535.9241
631	377648.0545	812366.5774
632	377694.9408	812331.7952
633	377705.0455	812311.8479
634	377901.8133	812165.8772
635	377910.5887	812122.0136
636	377836.1795	812052.7013
637	377917.8505	811992.1143
638	378001.5503	812070.0808
640	380171.9560	811298.0322
641	380270.9064	811415.3552
642	380259.4530	811425.0414
643	380206.7452	811362.5470
644	380210.5673	811359.3234
645	380153.4629	811291.6162
646	380161.0985	811285.1587
700	378913.5143	811419.0901
701	379008.0943	811314.0187
702	379055.7442	811294.7643
703	379148.4990	811210.6563
704	379243.1973	811181.2349

REVISION DATE			

DATE 11/06/2015

GRID FACTOR N/A

SCALE. FEET 0 50 100

HWY: CTH VV

COUNTY: FOND DU LAC

STATE R/W PROJECT NUMBER 4986-00-21

CONSTRUCTION PROJECT NUMBER 4986-00-22

PLAT SHEET 4.07

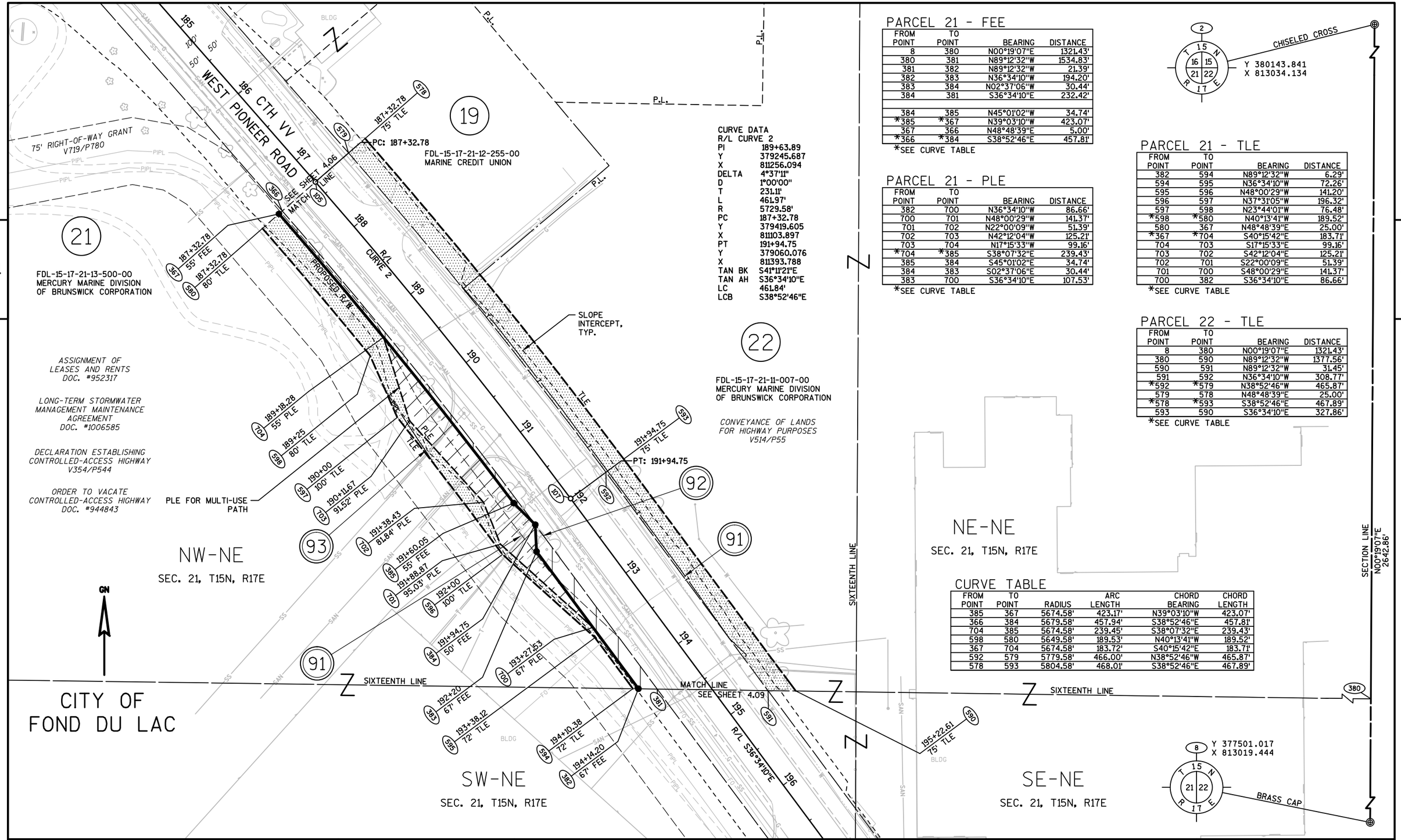
PS&E SHEET --244

E

FILE NAME : 49860021-040102-RP.DWG
LAYOUT NAME - 49860021-040102-RP-07-RW

PLOT DATE : 11/6/2015 8:40 AM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75



CURVE DATA
R/L CURVE 2

PI	189+63.89
Y	379245.687
X	811256.094
DELTA	4°37'11"
D	1°00'00"
T	231.11'
L	461.97'
R	5729.58'
PC	187+32.78
Y	379419.605
X	811103.897
PT	191+94.75
Y	379060.076
X	811393.788
TAN BK	S41°11'21"E
TAN AH	S36°34'10"E
LC	461.84'
LCB	S38°52'46"E

PARCEL 21 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
8	380	N00°19'07"E	1321.43'
380	381	N89°12'32"W	1534.83'
381	382	N89°12'32"W	21.39'
382	383	N36°34'10"W	194.20'
383	384	N02°37'06"W	30.44'
384	381	S36°34'10"E	232.42'
384	385	N45°01'02"W	34.74'
*385	*367	N39°03'10"W	423.07'
367	366	N48°48'39"E	5.00'
*366	*384	S38°52'46"E	457.81'

*SEE CURVE TABLE

PARCEL 21 - PLE

FROM POINT	TO POINT	BEARING	DISTANCE
382	700	N36°34'10"W	86.66'
700	701	N48°00'29"W	141.37'
701	702	N22°00'09"W	51.39'
702	703	N42°12'04"W	125.21'
703	704	N17°15'33"W	99.16'
*704	*385	S38°07'32"E	239.43'
385	384	S45°01'02"E	34.74'
384	383	S02°37'06"E	30.44'
383	700	S36°34'10"E	107.53'

*SEE CURVE TABLE

PARCEL 21 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
382	594	N89°12'32"W	6.29'
594	595	N36°34'10"W	72.26'
595	596	N48°00'29"W	141.20'
596	597	N37°31'05"W	196.32'
597	598	N23°44'01"W	76.48'
*598	*580	N40°13'41"W	189.52'
580	367	N48°48'39"E	25.00'
*367	*704	S40°15'42"E	183.71'
704	703	S17°15'33"E	99.16'
703	702	S42°12'04"E	125.21'
702	701	S22°00'09"E	51.39'
701	700	S48°00'29"E	141.37'
700	382	S36°34'10"E	86.66'

*SEE CURVE TABLE

PARCEL 22 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
8	380	N00°19'07"E	1321.43'
380	590	N89°12'32"W	1377.56'
590	591	N89°12'32"W	31.45'
591	592	N36°34'10"W	308.77'
*592	*579	N38°52'46"W	465.87'
579	578	N48°48'39"E	25.00'
*578	*593	S38°52'46"E	467.89'
593	590	S36°34'10"E	327.86'

*SEE CURVE TABLE

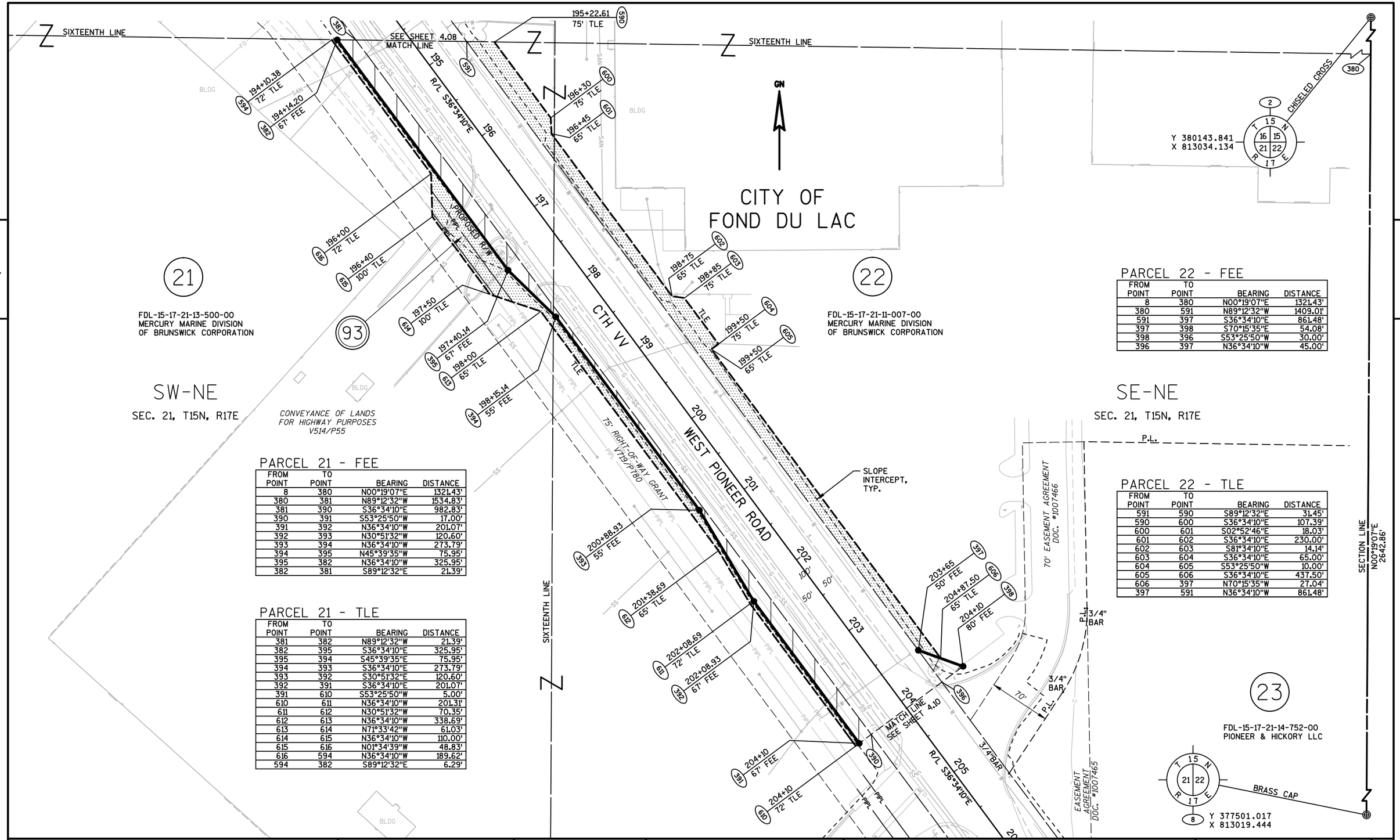
CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
385	367	5674.58'	423.17'	N39°03'10"W	423.07'
366	384	5679.58'	457.94'	S38°52'46"E	457.81'
704	385	5674.58'	239.45'	S38°07'32"E	239.43'
598	580	5649.58'	189.53'	N40°13'41"W	189.52'
367	704	5674.58'	183.72'	S40°15'42"E	183.71'
592	579	5779.58'	466.00'	N38°52'46"W	465.87'
578	593	5804.58'	468.01'	S38°52'46"E	467.89'

REVISION DATE	DATE 11/06/2015	SCALE. FEET 0 50 100	HWY: CTH VV
	GRID FACTOR N/A		COUNTY: FOND DU LAC

STATE R/W PROJECT NUMBER 4986-00-21	PLAT SHEET 4.08
CONSTRUCTION PROJECT NUMBER 4986-00-22	PS&E SHEET --245 E

FILE NAME : 49860021-040102-RP.DWG
LAYOUT NAME - 49860021-040102-RP-07-RW
PLOT DATE : 11/6/2015 8:49 AM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 75



PARCEL 21 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
8	380	N00°19'07"E	1321.43'
380	381	N89°12'32"W	1534.83'
381	390	S36°34'10"E	982.83'
390	391	S53°25'50"W	17.00'
391	392	N36°34'10"W	201.07'
392	393	N30°51'32"W	120.60'
393	394	N36°34'10"W	273.79'
394	395	N45°39'35"W	75.95'
395	382	N36°34'10"W	325.95'
382	381	S89°12'32"E	21.39'

PARCEL 21 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
381	382	N89°12'32"W	21.39'
382	395	S36°34'10"E	325.95'
395	394	S45°39'35"E	75.95'
394	393	S36°34'10"E	273.79'
393	392	S30°51'32"E	120.60'
392	391	S36°34'10"E	201.07'
391	610	S53°25'50"W	5.00'
610	611	N36°34'10"W	201.31'
611	612	N30°51'32"W	70.35'
612	613	N36°34'10"W	338.69'
613	614	N71°33'42"W	61.03'
614	615	N36°34'10"W	110.00'
615	616	N01°34'39"W	48.83'
616	594	N36°34'10"W	189.62'
594	382	S89°12'32"E	6.29'

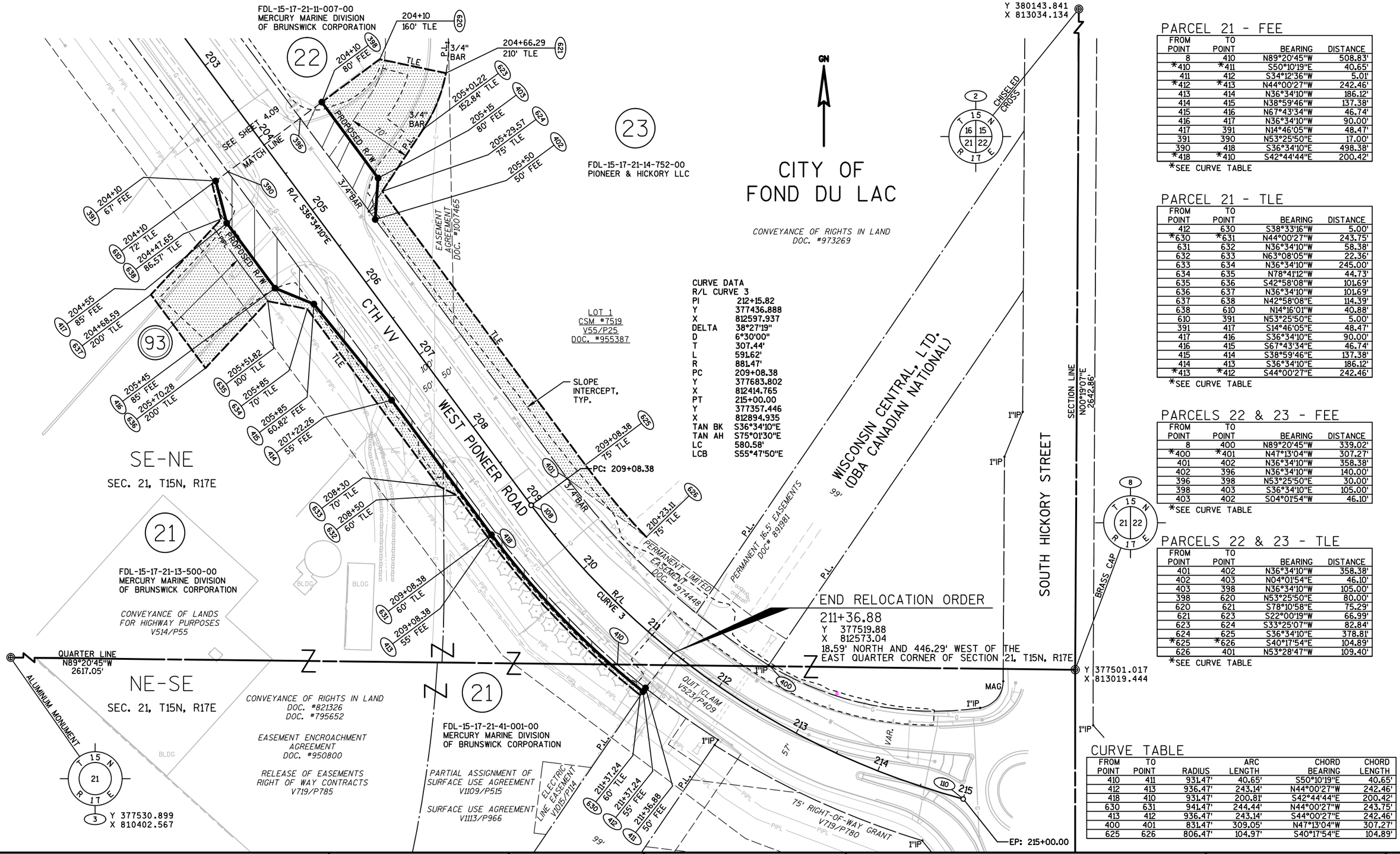
PARCEL 22 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
8	380	N00°19'07"E	1321.43'
380	591	N89°12'32"W	1409.01'
591	397	S36°34'10"E	861.48'
397	398	S70°15'35"E	54.08'
398	396	S53°25'50"W	30.00'
396	397	N36°34'10"W	45.00'

PARCEL 22 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
591	590	S89°12'32"E	31.45'
590	600	S36°34'10"E	107.39'
600	601	S02°52'46"E	18.03'
601	602	S36°34'10"E	230.00'
602	603	S81°34'10"E	14.14'
603	604	S36°34'10"E	65.00'
604	605	S53°25'50"W	10.00'
605	606	S36°34'10"E	437.50'
606	397	N70°15'35"W	27.04'
397	591	N36°34'10"W	861.48'

REVISION DATE	DATE 11/06/2015	SCALE: FEET 0 50 100	HWY: CTH VV	STATE R/W PROJECT NUMBER 4986-00-21	PLAT SHEET 4.09	
	GRID FACTOR N/A		COUNTY: FOND DU LAC	CONSTRUCTION PROJECT NUMBER 4986-00-22	PS&E SHEET --246	E



PARCEL 21 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
8	410	N89°20'45"W	508.83'
*410	*411	S50°10'19"E	40.65'
411	412	S34°12'36"W	5.01'
*412	*413	N44°00'27"W	242.46'
413	414	N36°34'10"W	186.12'
414	415	N38°59'46"W	137.38'
415	416	N67°43'34"W	46.74'
416	417	N36°34'10"W	90.00'
417	391	N14°46'05"W	48.47'
391	390	N53°25'50"E	17.00'
390	418	S36°34'10"E	498.38'
*418	*410	S42°44'44"E	200.42'

*SEE CURVE TABLE

PARCEL 21 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
412	630	S38°33'16"W	5.00'
*630	*631	N44°00'27"W	243.75'
631	632	N36°34'10"W	58.38'
632	633	N63°08'05"W	22.36'
633	634	N36°34'10"W	245.00'
634	635	N78°41'12"W	44.73'
635	636	S42°58'08"W	101.69'
636	637	N36°34'10"W	101.69'
637	638	N42°58'08"E	114.39'
638	610	N14°16'01"W	40.88'
610	391	N53°25'50"E	5.00'
391	417	S14°46'05"E	48.47'
417	416	S36°34'10"E	90.00'
416	415	S67°43'34"E	46.74'
415	414	S38°59'46"E	137.38'
414	413	S36°34'10"E	186.12'
*413	*412	S44°00'27"E	242.46'

*SEE CURVE TABLE

PARCELS 22 & 23 - FEE

FROM POINT	TO POINT	BEARING	DISTANCE
8	400	N89°20'45"W	339.02'
*400	*401	N47°13'04"W	307.27'
401	402	N36°34'10"W	358.38'
402	396	N36°34'10"W	140.00'
396	398	N53°25'50"E	30.00'
398	403	S36°34'10"E	105.00'
403	402	S04°01'54"W	46.10'

*SEE CURVE TABLE

PARCELS 22 & 23 - TLE

FROM POINT	TO POINT	BEARING	DISTANCE
401	402	N36°34'10"W	358.38'
402	403	N04°01'54"E	46.10'
403	398	N36°34'10"W	105.00'
398	620	N53°25'50"E	80.00'
620	621	S78°10'58"E	75.29'
621	623	S22°00'19"W	66.99'
623	624	S33°25'07"W	82.84'
624	625	S36°34'10"E	378.81'
*625	*626	S40°17'54"E	104.89'
626	401	N53°28'47"W	109.40'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
410	411	931.47'	40.65'	S50°10'19"E	40.65'
412	413	936.47'	243.14'	N44°00'27"W	242.46'
418	410	931.47'	200.81'	S42°44'44"E	200.42'
630	631	941.47'	244.44'	N44°00'27"W	243.75'
413	412	936.47'	243.14'	S44°00'27"E	242.46'
400	401	831.47'	309.05'	N47°13'04"W	307.27'
625	626	806.47'	104.97'	S40°17'54"E	104.89'

REVISION DATE			

DATE 11/06/2015

GRID FACTOR N/A

SCALE. FEET 0 50 100

HWY: CTH VV

COUNTY: FOND DU LAC

STATE R/W PROJECT NUMBER 4986-00-21

CONSTRUCTION PROJECT NUMBER 4986-00-22

PLAT SHEET 4.10

PS&E SHEET --247

E

FILE NAME : 49860021-040102-RP.DWG
LAYOUT NAME - 49860021-040102-RP-09-RW

PLOT DATE : 11/6/2015 8:41 AM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

ABC SUPPLY COMPANY

FOND DU LAC
AUTO MACHINE & PARTS

VALLEY TRUCK LEASING

N

TLE

SLOPE INTERCEPT, TYP

EXISTING R/W

ASPHALT
C.E.

15"CMP

269'WB'
269'EB'

270'WB'
270'EB'

271'WB'
271'EB'

272'WB'
272'EB'

CTH VV
PIONEER ROAD

273

MATCH LINE STA 273'EB+00

15"X24" CMHE

EXISTING R/W

BEGIN PROJECT
STA 272'EB'+00.00
MATCH EXISTING
SAWCUT REQUIRED

TLE

SLOPE INTERCEPT, TYP

ASPHALT
C.E.

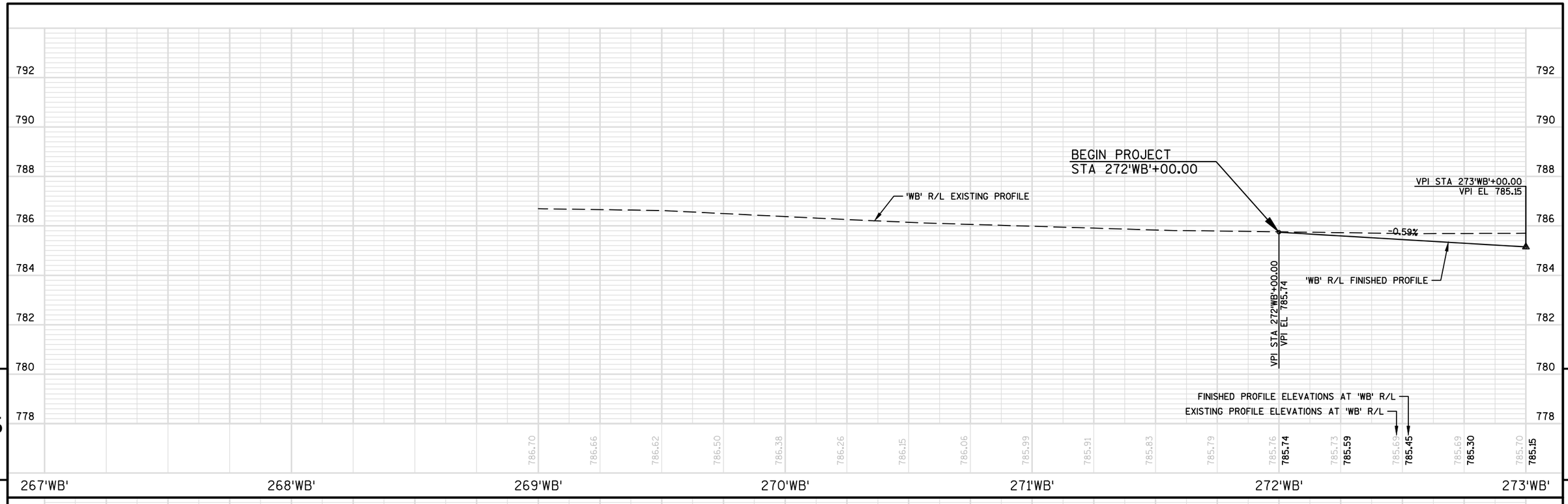
FASTENAL
COMPANY

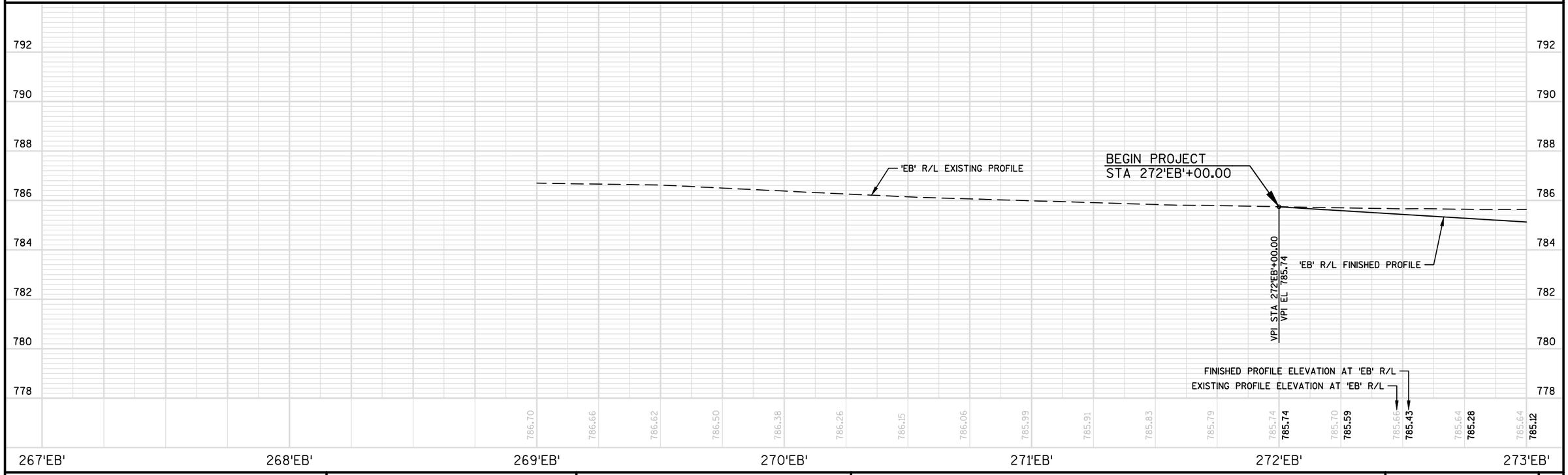
R&J TRANSPORT

5

5

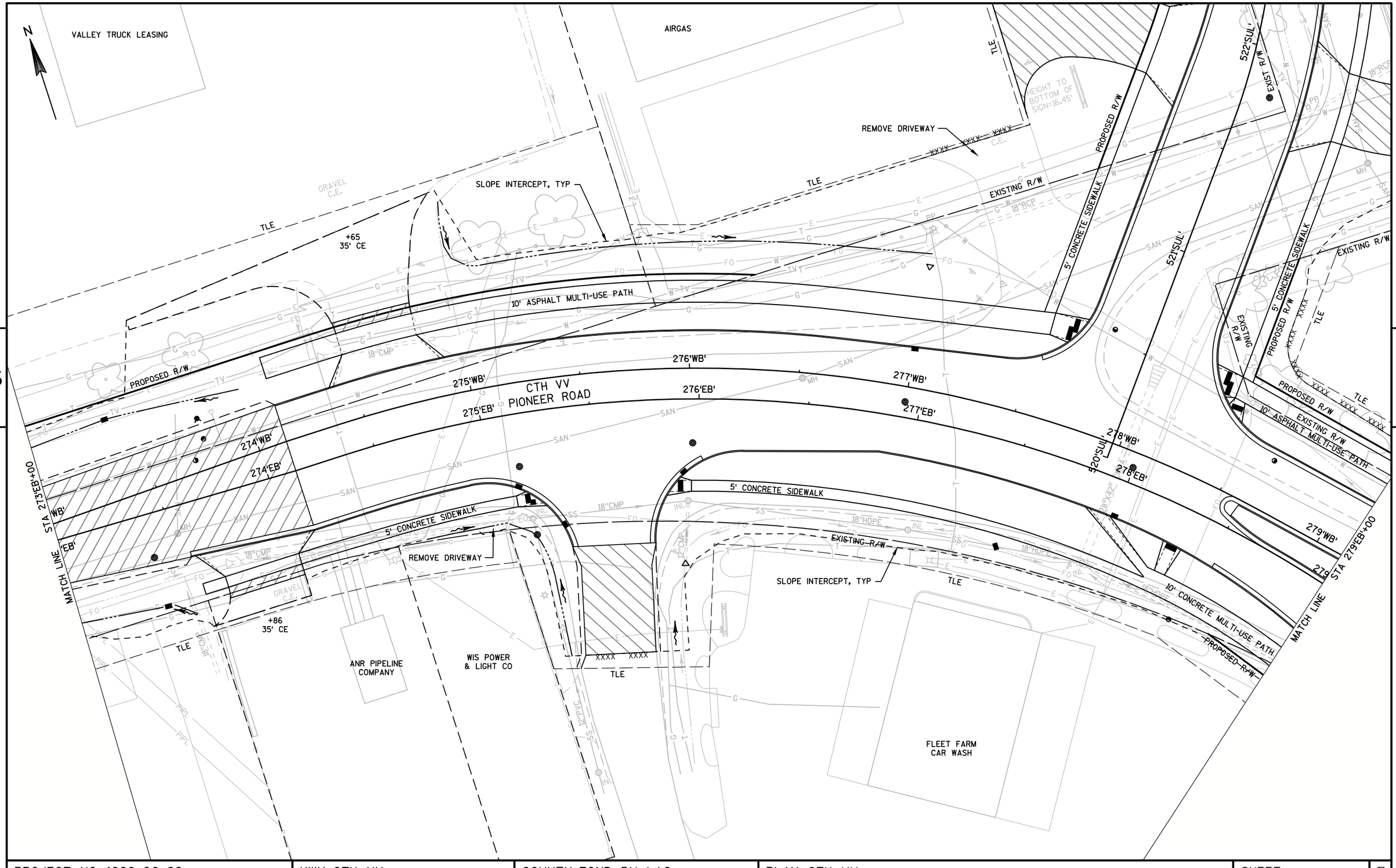
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: CTH VV	SHEET 248	E





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: CTH VV	SHEET 249	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-02-CTH VV
PLOT DATE : 7/29/2016 9:37 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

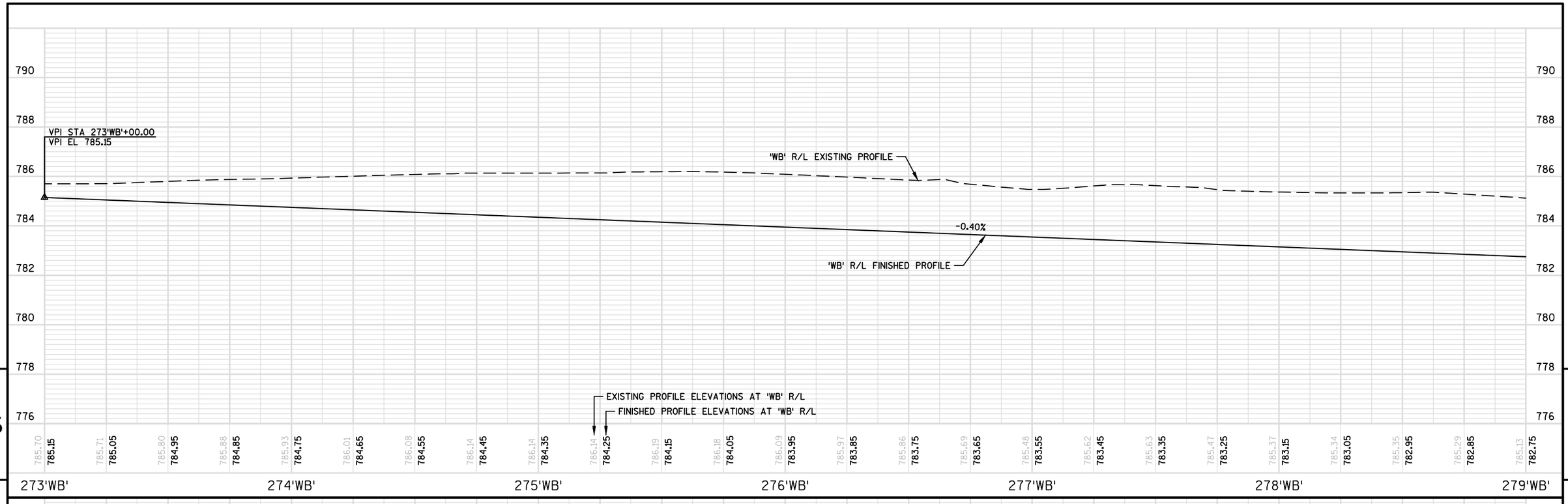


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: CTH VV	SHEET 250	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-03-CTHVV

PLOT DATE : 9/1/2016 4:02 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: CTH VV	SHEET 251	E

FLEET FARM
GAS STATION

MANOWSKE WELDING

MILITARY ROAD

CTH VV
PIONEER ROAD

HARMONY
HOLDINGS INC

MERCURY MARINE

EXISTING R/W

PROPOSED R/W

TLE

SLOPE INTERCEPT, TYP

10' ASPHALT
MULTI-USE PATH

10' CONCRETE
MULTI-USE PATH

5' CONCRETE SIDEWALK

+40
46' CE

MATCH LINE STA 279+00

MATCH LINE STA 285+00

280'WB'

281'WB'

280'EB'

281'EB'

284'WB'

284'EB'

450'SB'

450'NB'

441'SB'

441'NB'

12'RAB'

13'RAB'

42"RCP

12"PVC

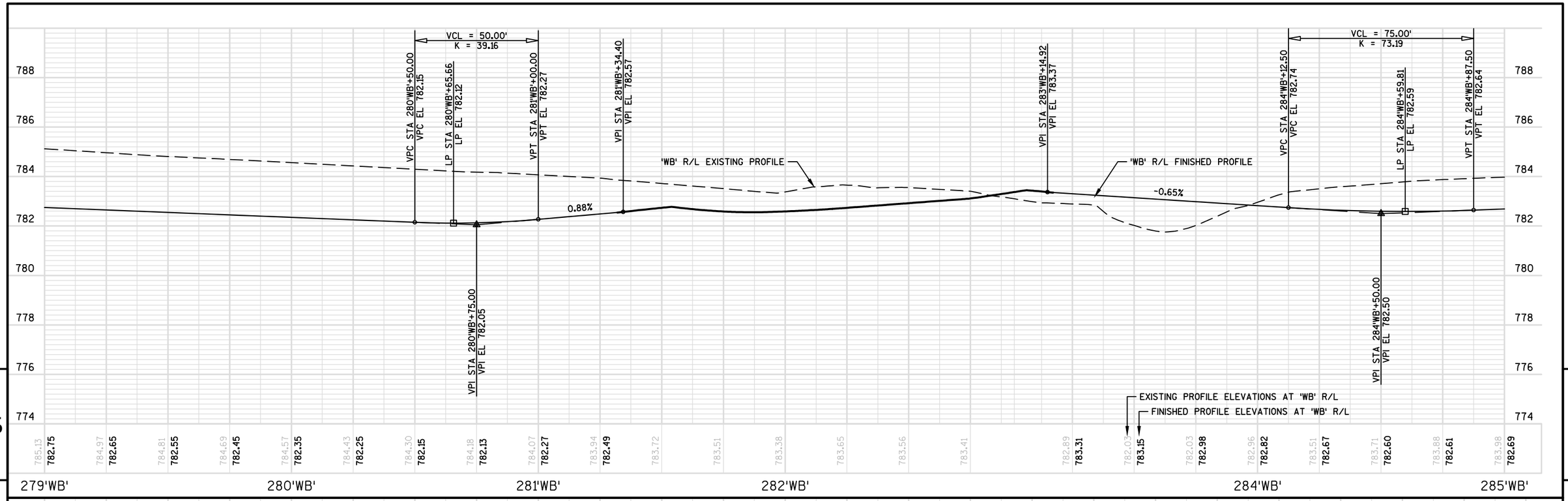
INL 4"PVC

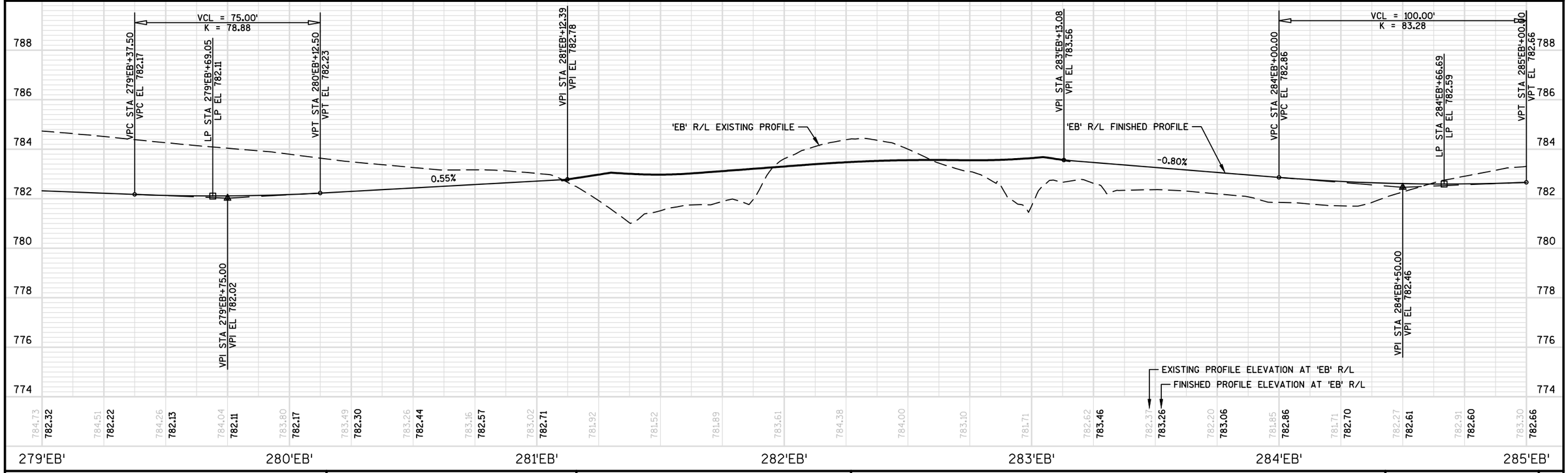
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: CTH VV	SHEET 252	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-05-CTH VV

PLOT DATE : 7/29/2016 9:38 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: CTH VV	SHEET 253	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-06-CTH VV
PLOT DATE : 7/29/2016 9:38 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

MERCURY MARINE

MARINE CREDIT UNION

TREE TO REMAIN

+24
40' PE

LIGHT POLE TO REMAIN

WETLAND LIMITS, TYP

SLOPE INTERCEPT, TYP

+10
54' CE

ASPHALT
C.E.

ASPHALT
P.E.

TLE

EXISTING R/W

5' CONCRETE SIDEWALK

18"CMP

286'WB'

287'WB'

288'WB'

289'WB'

290'WB'

285'WB'

286'EB'

287'EB'

288'EB'

289'EB'

290'EB'

CTH VV
PIONEER ROAD

STA 285'EB'+00

STA 291'EB'+00

MATCH LINE

MATCH LINE

42"RCP

10' ASPHALT MULTI-USE PATH

PROPOSED R/W

EXISTING R/W

PROPOSED R/W

TLE

SLOPE INTERCEPT, TYP

PLE

+72
48' CE

PLE

TLE

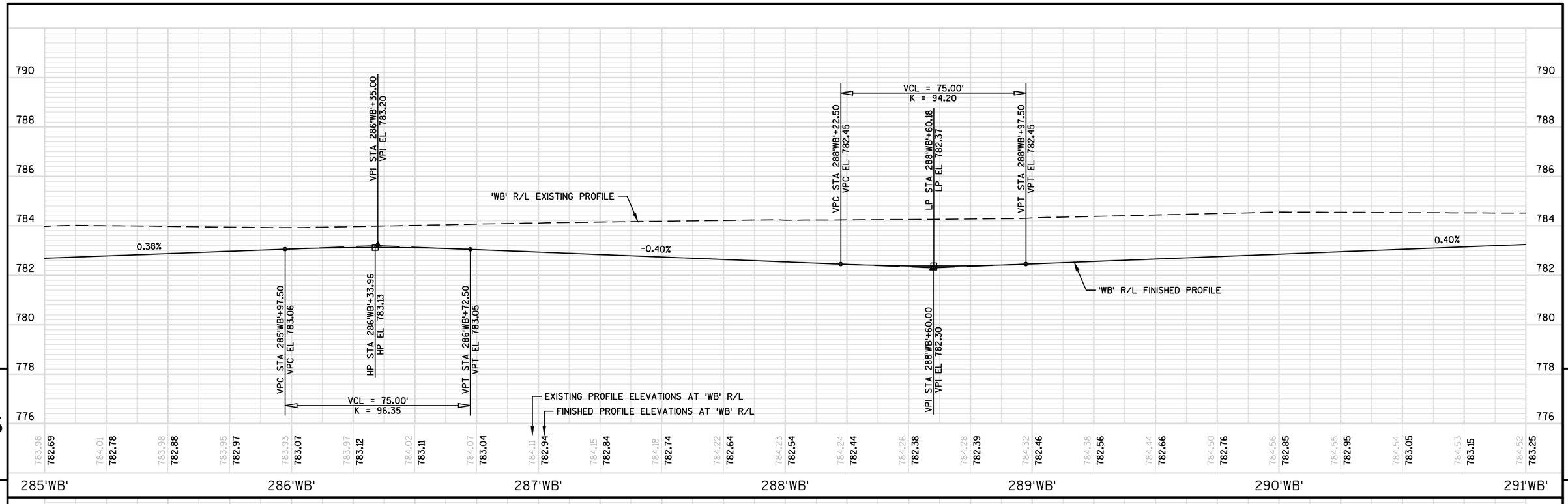
SIGN TO REMAIN, LANDSCAPING MAY BE
REMOVED AS NECESSARY TO GRADE
FROM PATH TO CURB

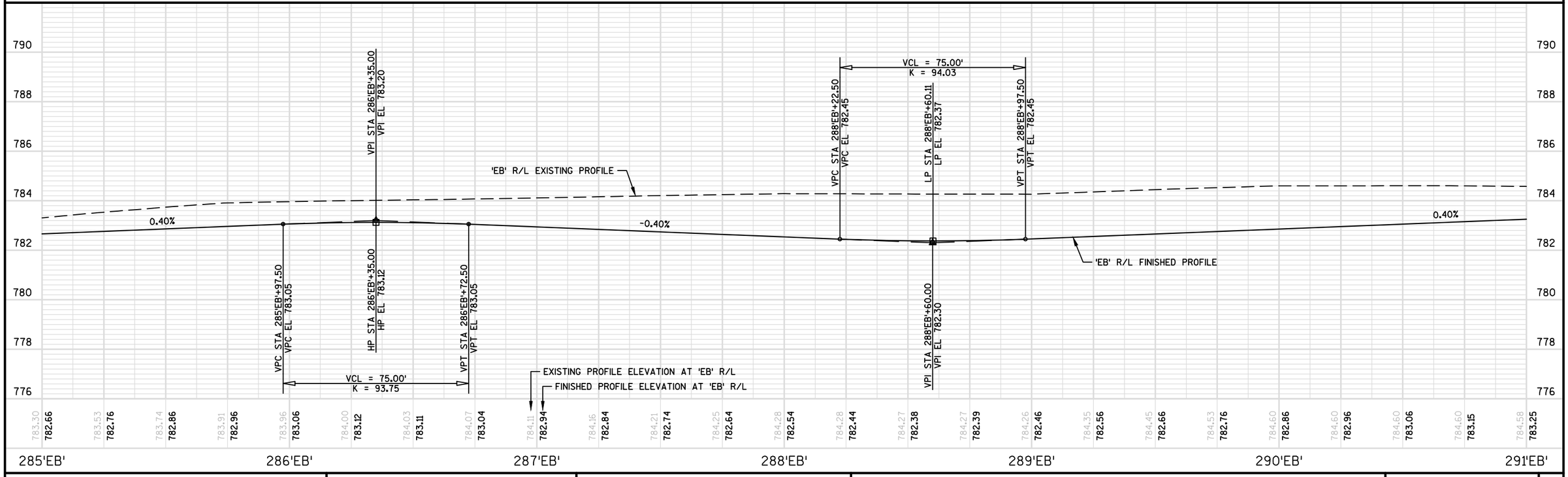
MERCURY MARINE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: CTH VV	SHEET 254	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-07-CTHVV

PLOT DATE : 7/29/2016 9:38 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: CTH VV	SHEET 255	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-08-CTH VV
PLOT DATE : 7/29/2016 9:38 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

MERCURY MARINE

STA AHEAD = 291'WB'+94.23
STA BACK = 291'WB'+95.69
EQUATION

MERCURY MARINE FIRE PROTECTION SYSTEM

RETAINING WALL
(SEE DETAILS)

WETLAND LIMITS, TYP

TLE

SLOPE INTERCEPT, TYP

EXISTING R/W

5' CONCRETE SIDEWALK

STA 291'EB'+00

291'WB' 292'WB' 293'WB' 294'WB' 295'WB' 296'WB' 297

291'EB' 292'EB' 293'EB' 294'EB' 295'EB' 296'EB' 297

CTH VV
PIONEER ROAD

STA 297'EB'+00

MATCH LINE

MATCH LINE

PROPOSED R/W

EXISTING R/W

10' ASPHALT MULTI-USE PATH

PROPOSED R/W

TLE

SLOPE INTERCEPT, TYP

TLE

TLE

BUILDING TO REMAIN

TREE TO REMAIN

CONCRETE SIDEWALK

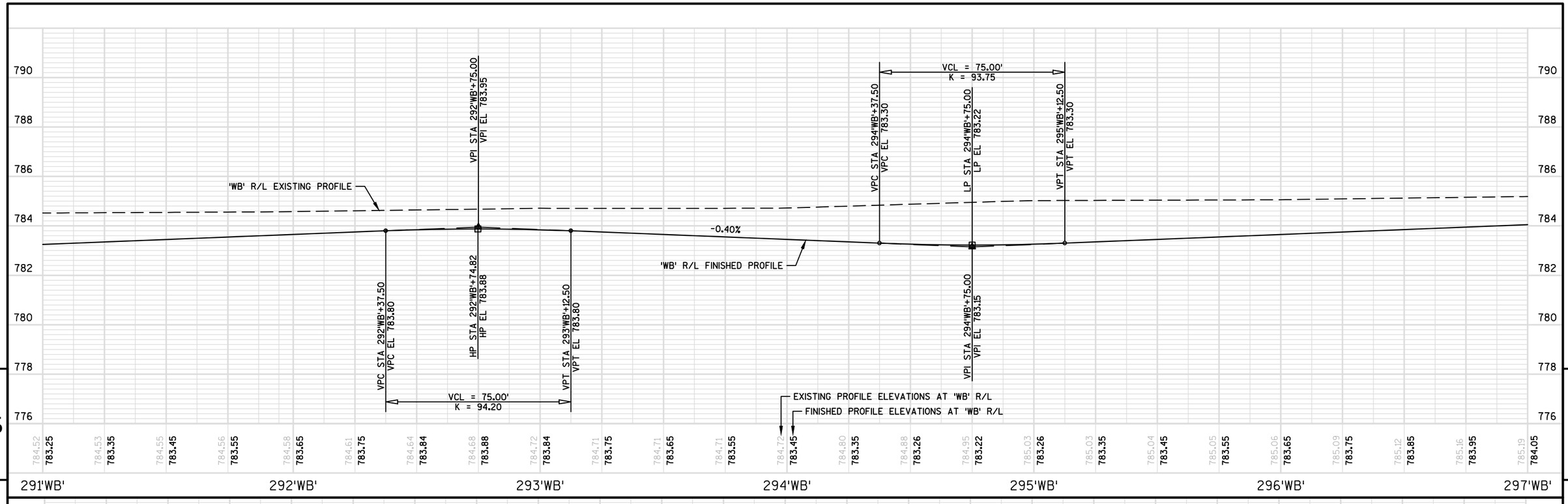
MERCURY MARINE

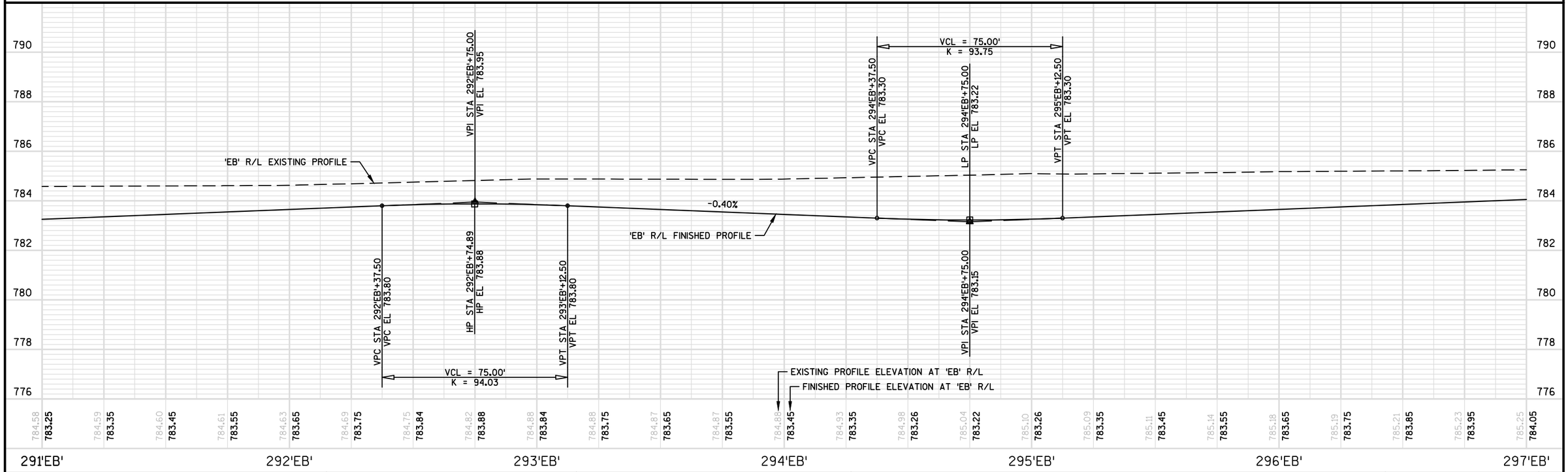
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: CTH VV	SHEET 256	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-09-CTH VV

PLOT DATE : 9/15/2016 2:39 PM PLOT BY : JAY PANETTI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: CTH VV	SHEET 257	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-10-CTH VV
PLOT DATE : 7/29/2016 9:38 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

MERCURY MARINE

RETAINING WALL
(SEE DETAILS)

TLE

TLE

TLE

SLOPE INTERCEPT, TYP

EXISTING R/W

5' CONCRETE SIDEWALK

STA 297'EB'+00

297'WB' 298'WB' 299'WB' 300'WB' 301'WB' 302'WB' 303

297'EB' 298'EB' 299'EB' 300'EB' 301'EB' 302'EB' 303

STA 303'EB'+00

CTH VV
PIONEER ROAD

MATCH LINE

MATCH LINE

10' ASPHALT MULTI-USE PATH

EXISTING R/W

PROPOSED R/W

TLE

TLE

SLOPE INTERCEPT, TYP

REMOVE DRIVEWAY

TLE

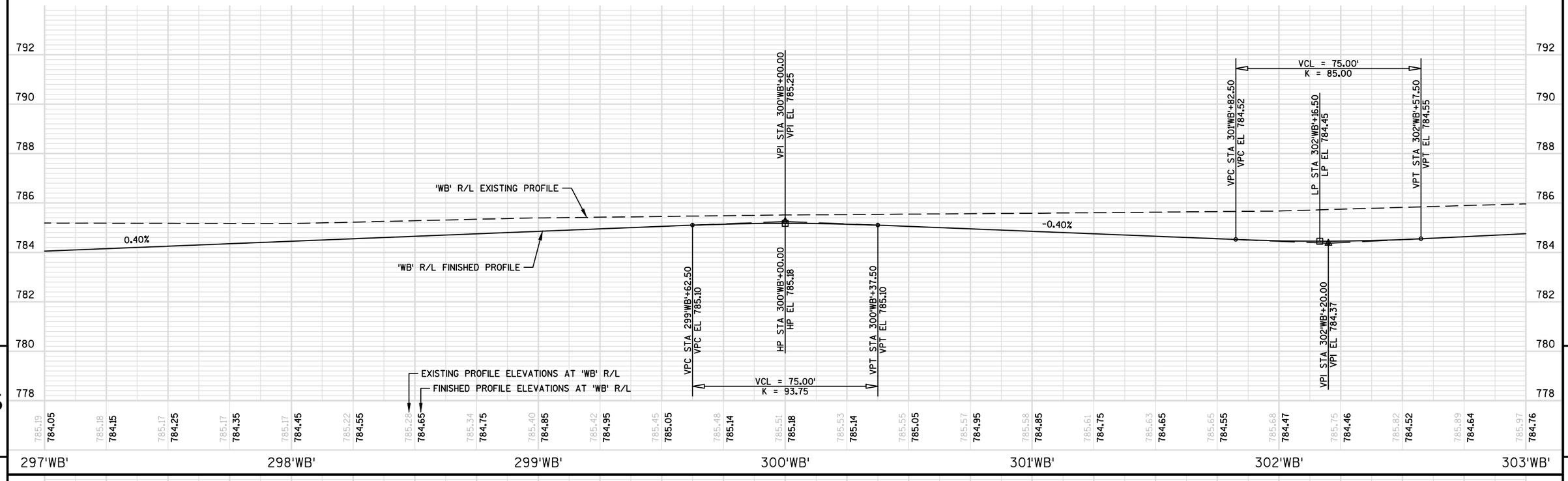
MERCURY MARINE

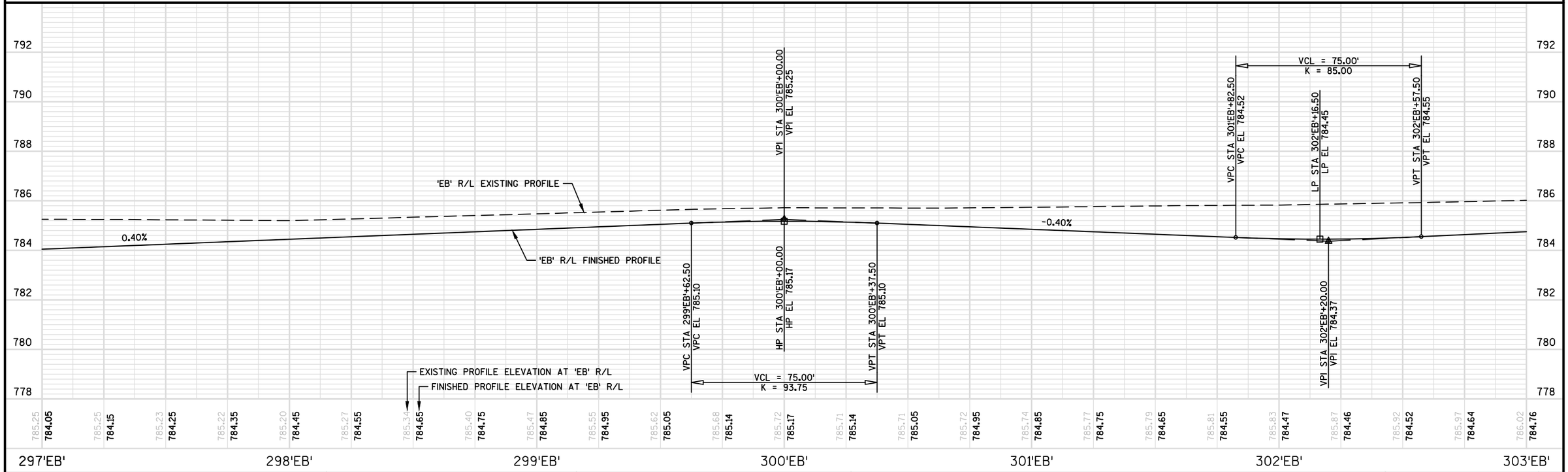
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: CTH VV	SHEET 258	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-11-CTHVV

PLOT DATE : 8/1/2016 11:10 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: CTH VV	SHEET 259	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-12-CTH VV
PLOT DATE : 7/29/2016 9:38 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

PIONEER & HICKORY LLC

MERCURY MARINE

MERCURY MARINE ENTRANCE

PROPOSED R/W

TLE

5' CONCRETE SIDEWALK

SLOPE INTERCEPT, TYP

WETLAND LIMITS, TYP

EXISTING R/W

CTH VV
PIONEER ROAD

10' ASPHALT MULTI-USE PATH

MATCH LINE

STA 303'EB'+00

STA 309'EB'+00

303'WB' 304'WB' 305'WB' 306'WB' 307'WB' 308'WB' 309'

303'EB' 304'EB' 305'EB' 306'EB' 307'EB' 308'EB' 309'

+04
32' CE

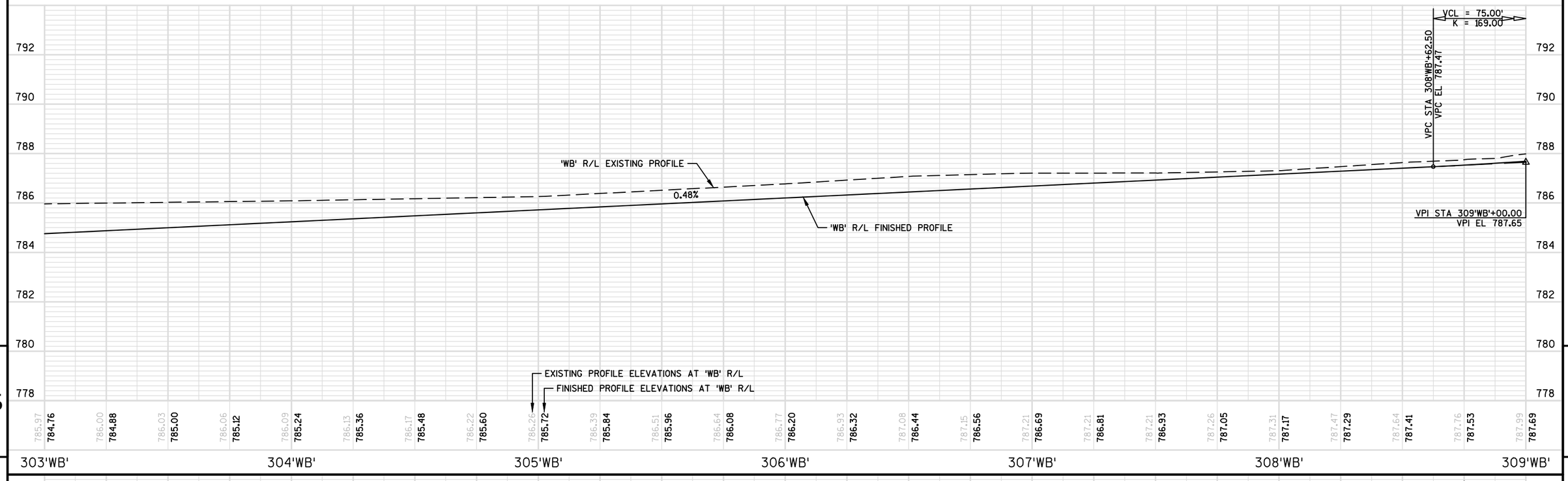
MERCURY MARINE

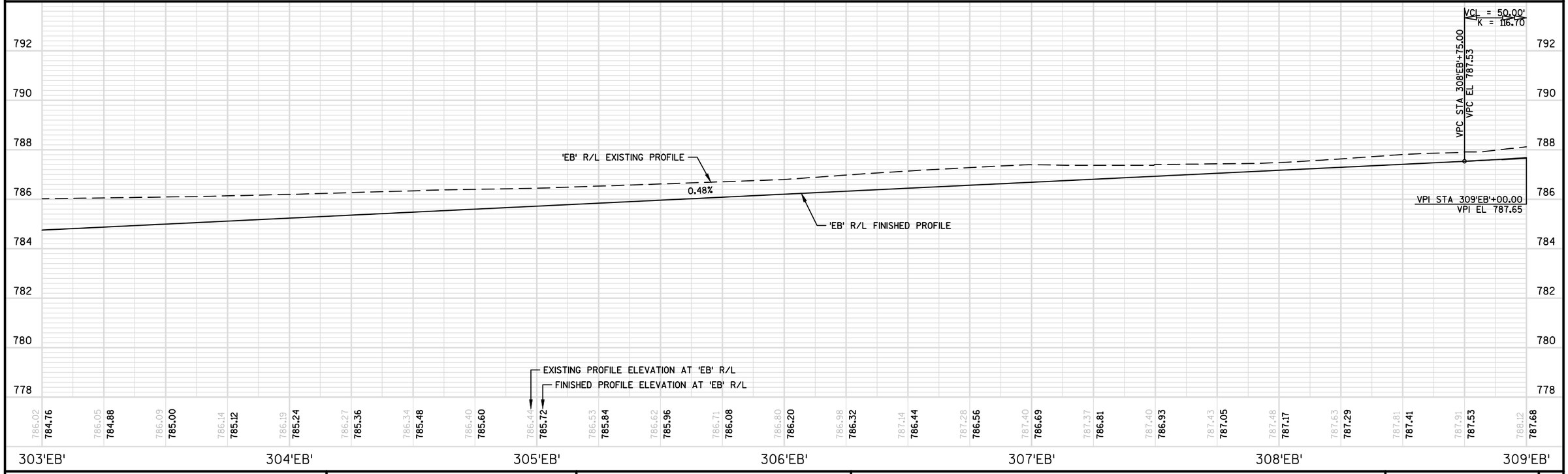
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: CTH VV	SHEET 260	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-13-CTH VV

PLOT DATE : 7/29/2016 9:38 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: CTH VV	SHEET 261	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-14-CTH VV
PLOT DATE : 7/29/2016 9:38 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

PIONEER & HICKORY LLC

FOX VALLEY & WESTERN LTD

PIONEER & HICKORY LLC

N

WETLAND LIMITS, TYP

SLOPE INTERCEPT, TYP

EXISTING PLE

TLE

GRAVEL F.E.

EXISTING R/W

5' CONCRETE SIDEWALK

MATCH LINE STA 309'EB'+00

'WB'

'EB'

310'WB'

310'EB'

311'WB'

311'EB'

312'WB'

312'EB'

313'WB'

314'WB'

CTH VV
PIONEER ROAD

CPRCHE

34"X53"

SLOPE INTERCEPT, TYP

EXISTING R/W

10' ASPHALT MULTI-USE PATH

PROPOSED R/W

TLE

EXISTING R/W

WILD GOOSE STATE TRAIL

END PROJECT
STA 311'EB'+06.90
MATCH EXISTING
SAWCUT REQUIRED

AGNESIAN
HEALTH CARE

MERCURY MARINE

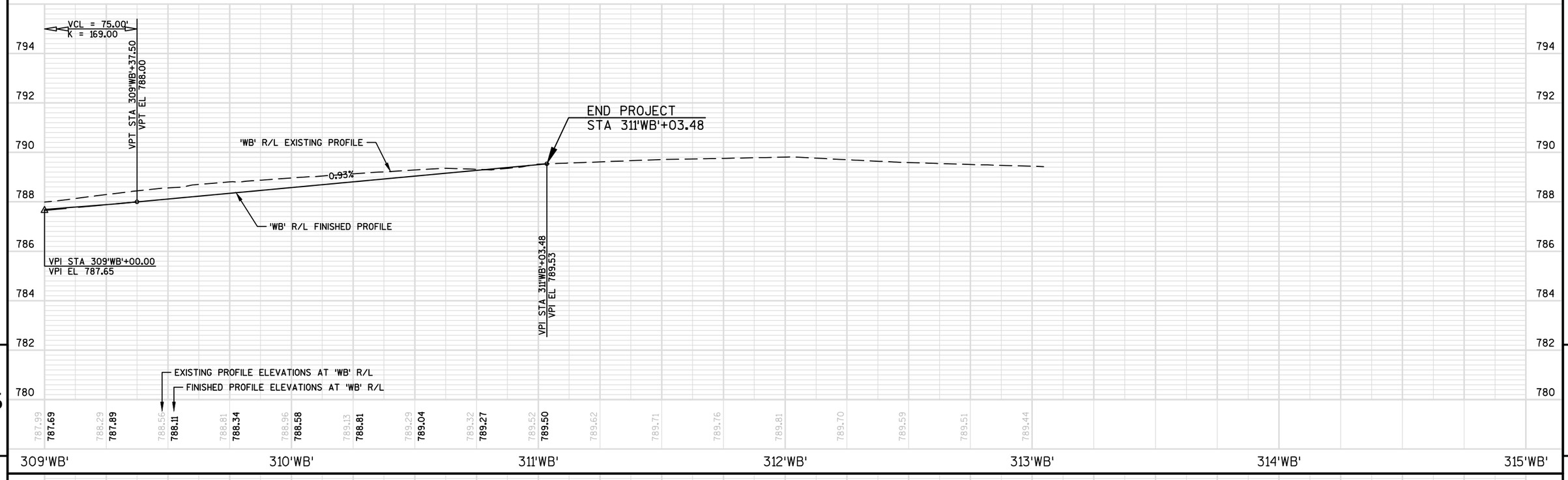
STATE OF WISCONSIN
DEPARTMENT OF
NATURAL RESOURCES

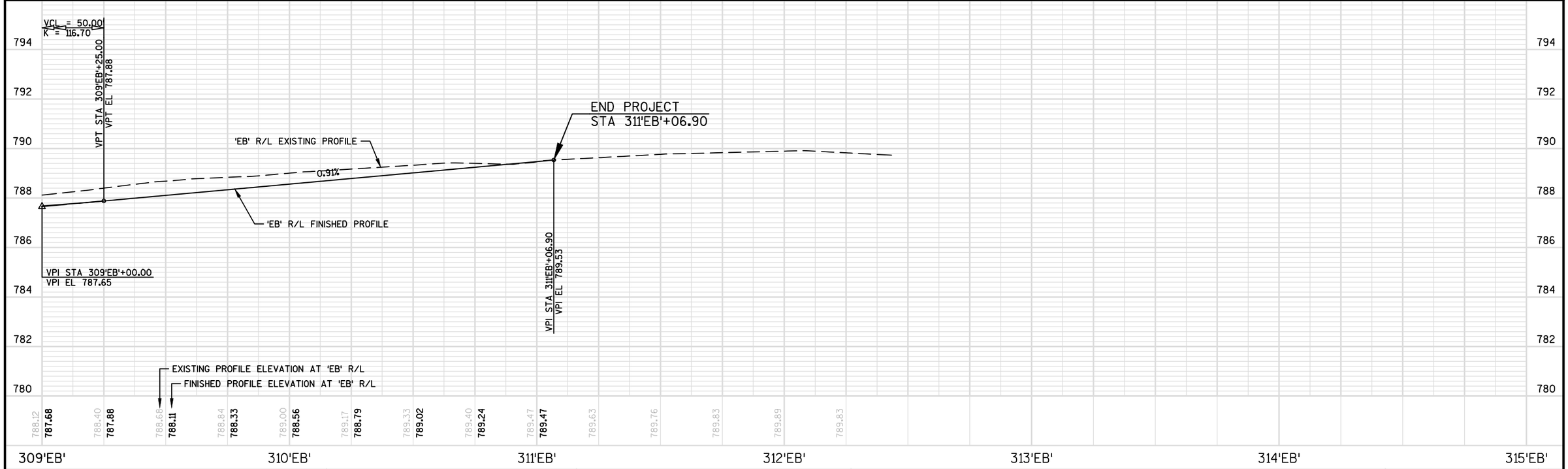
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: CTH VV	SHEET 262	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050101-PP.DWG
LAYOUT NAME - 49860022-050101-PP-15-CTH VV

PLOT DATE : 7/29/2016 9:38 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: CTH VV	SHEET 263	E

MICROTEL
INN & SUITES

JAMES G GRAFFT

DJC
RENTALS LLC

EXISTING R/W

SLOPE INTERCEPT, TYP

5' CONCRETE SIDEWALK

438'NB'

439'NB'

440'SB'

440'NB'

441'SB'

441'NB'

442'SB'

442'NB'

443'SB'

443'NB'

MILITARY ROAD

STA 444'NB'+00

MATCH LINE

10' ASPHALT MULTI-USE PATH

TEMPORARY CROSSOVER
STA 438'NB'+86 - STA 442'NB'+60

BEGIN CONSTRUCTION
STA 442'NB'+96.50
MATCH EXISTING
SAWCUT REQUIRED

PROPOSED R/W

EXISTING R/W

TLE

SLOPE INTERCEPT, TYP

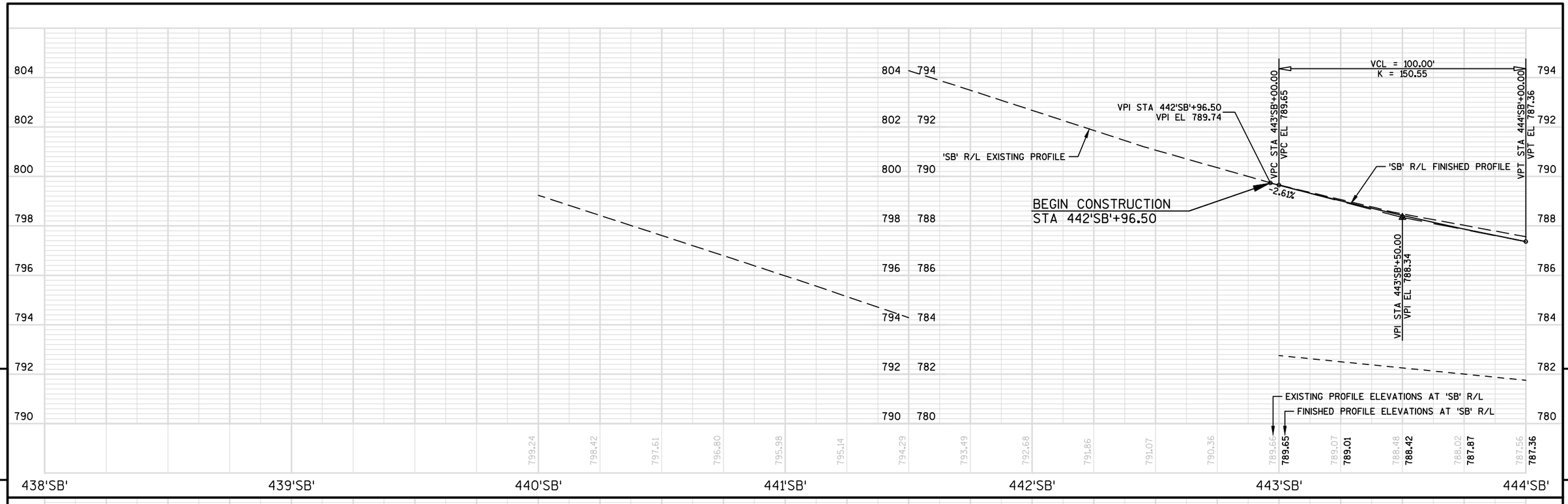
MERCURY MARINE

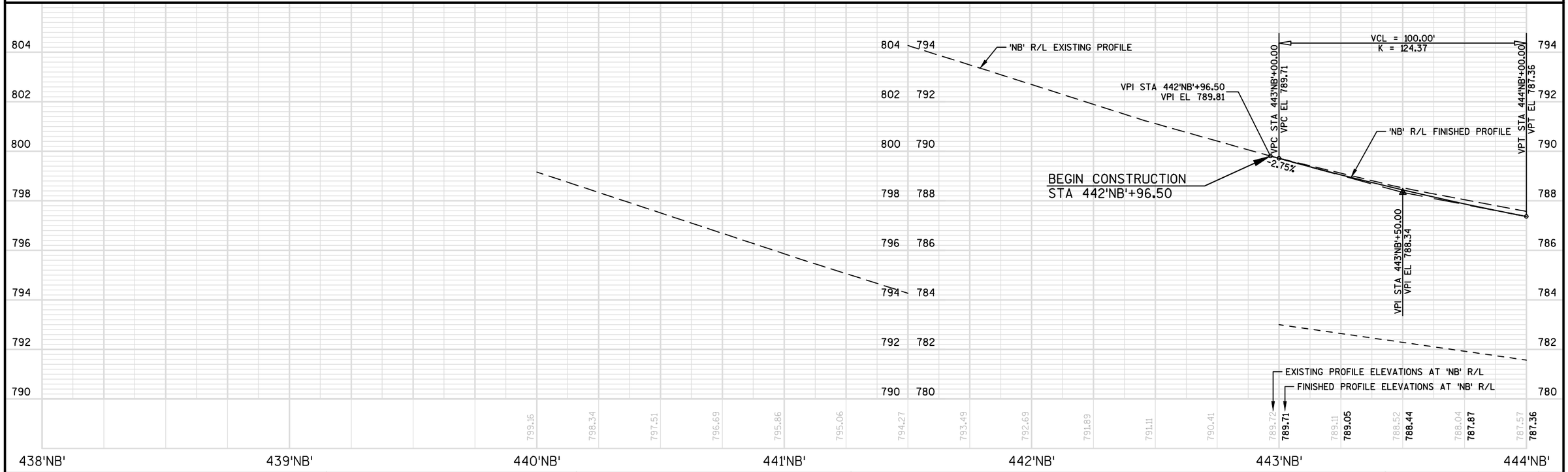
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: MILITARY ROAD	SHEET 264	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050201-PP.DWG
LAYOUT NAME - 49860022-050201-PP-01-MILITARY

PLOT DATE : 7/29/2016 9:39 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: MILITARY ROAD	SHEET 265	E

HARMONY HOLDINGS INC

SLOPE INTERCEPT, TYP

TLE

EXISTING R/W

PROPOSED R/W

10' CONCRETE MULTI-USE PATH

5' CONCRETE SIDEWALK

MILITARY ROAD

STA 444'NB'+00

STA 450'NB'+00

MATCH LINE

MATCH LINE

10' ASPHALT MULTI-USE PATH

MERCURY MARINE

MANOWSKE WELDING

CTH VV
PIONEER ROAD

281'WB'

284'EB'

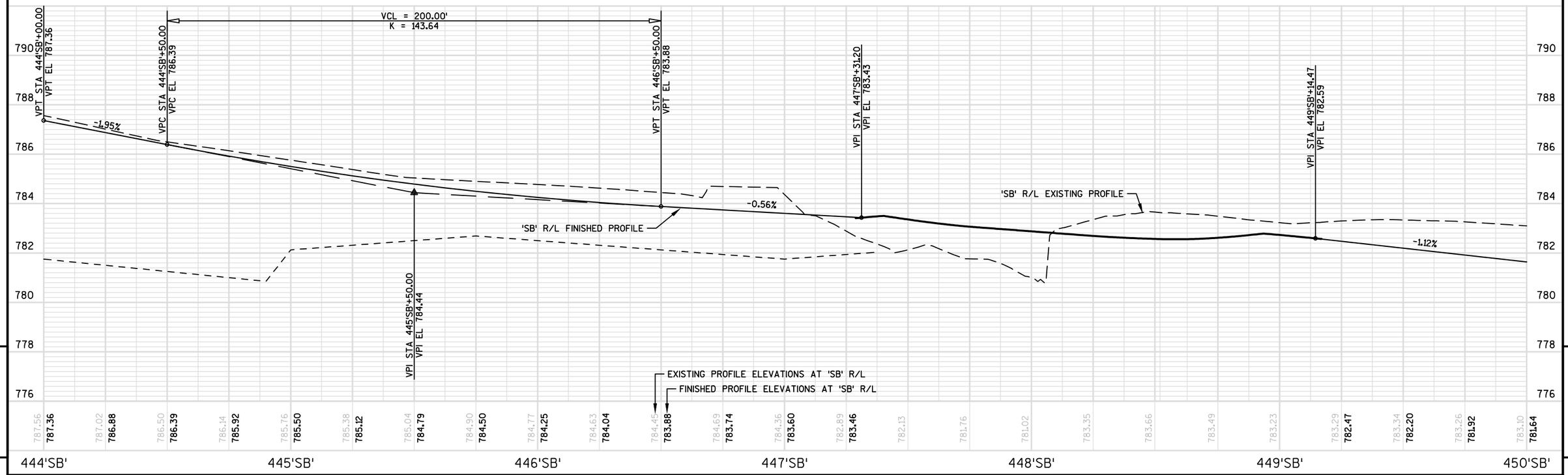
284'WB'

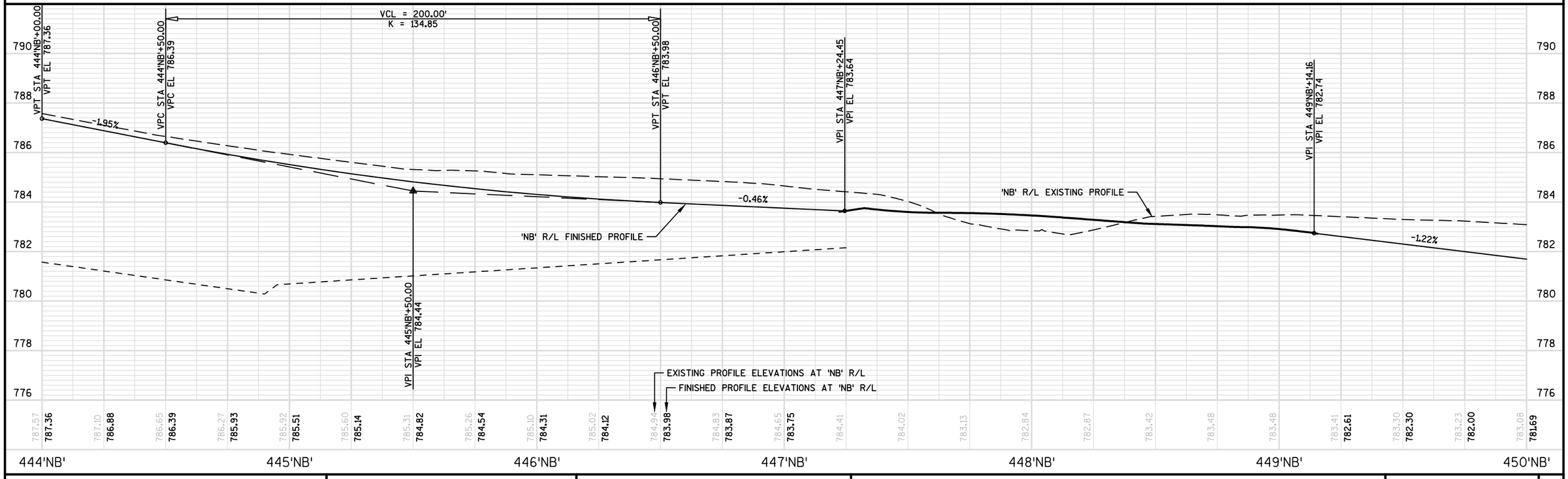
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: MILITARY ROAD	SHEET 266	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050201-PP.DWG
LAYOUT NAME - 49860022-050201-PP-03-MILITARY

PLOT DATE : 8/1/2016 11:11 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: MILITARY ROAD	SHEET 267	E

FLEET FARM
GAS STATION

ROGERSVILLE ROAD

EXISTING R/W

REMOVAL LIMITS

TREE TO REMAIN

REMOVE DRIVEWAY

FLEET FARM

TLE

SLOPE INTERCEPT, TYP

EXISTING R/W

5' CONCRETE SIDEWALK

PROPOSED R/W

STA 450'NB'+00

'SB'

451'SB'

452'SB'

453'SB'

454'SB'

455'SB'

456

'NB'

451'NB'

452'NB'

453'NB'

MILITARY ROAD

454'NB'

455'NB'

456

STA 456'NB'+00

MATCH LINE

30"RCP

8"PVC

12"RCP

8"RCP

24"RCP

+39
43' CE

+39
28' CE

MANOWSKE WELDING

CONCRETE P.E.

ASPHALT C.E.

GRAVEL C.E.

OAK PARK AVENUE

310'OAK'

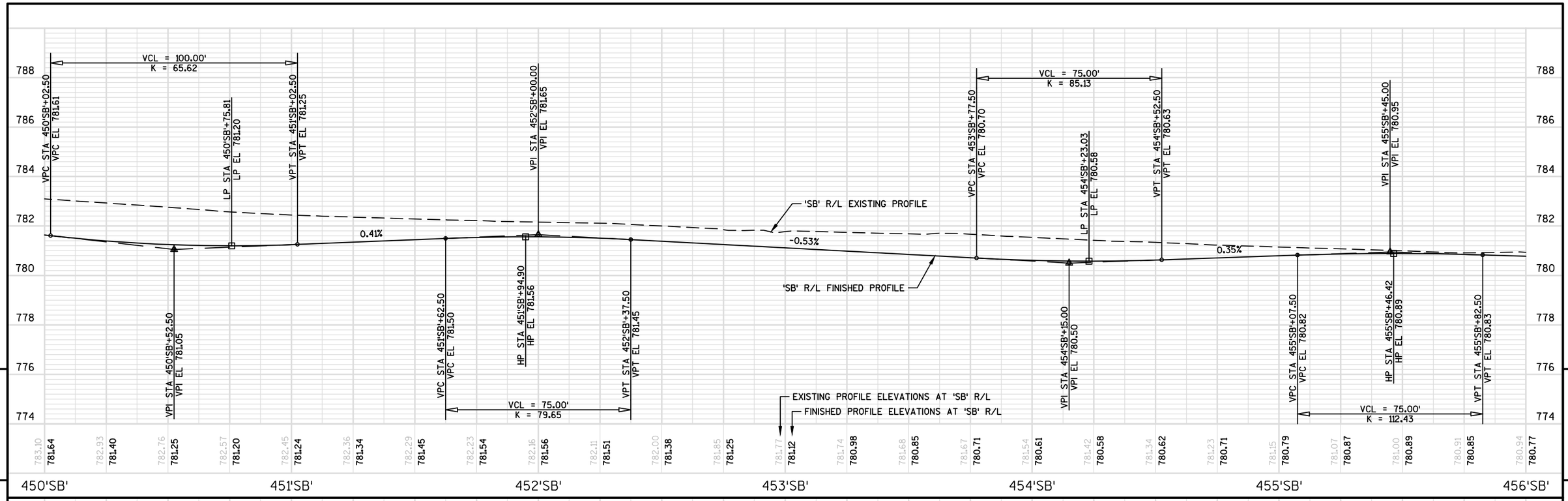
FRENCHIE'S
TAVERN

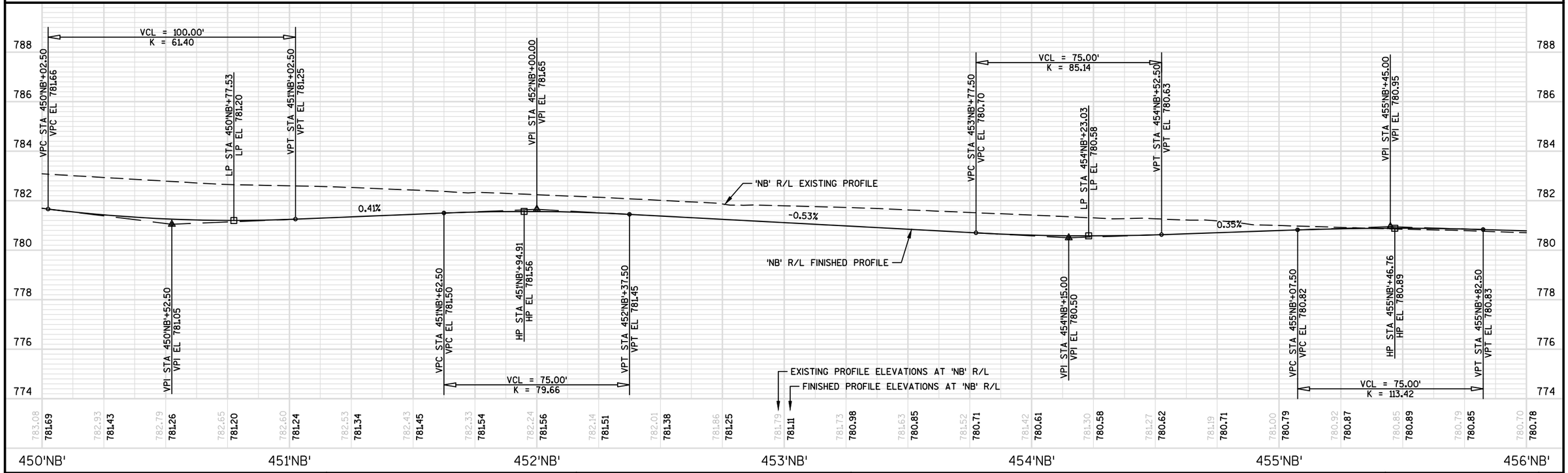
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: MILITARY ROAD	SHEET 268	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050201-PP.DWG
LAYOUT NAME - 49860022-050201-PP-05-MILITARY

PLOT DATE : 7/29/2016 9:39 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: MILITARY ROAD	SHEET 269	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050201-PP.DWG
LAYOUT NAME - 49860022-050201-PP-06-MILITARY
PLOT DATE : 7/29/2016 9:39 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

FLEET FARM

LENZ
TRUCK CENTER

N

REMOVE DRIVEWAY

TLE

PROPOSED R/W

5' CONCRETE SIDEWALK

EXISTING R/W

EXISTING R/W

MATCH LINE

STA 456'NB'+00

'SB'

'NB'

457'SB'

457'NB'

458'NB'

459'NB'

MILITARY ROAD

460'NB'

461'NB'

462'NB'

5' CONCRETE SIDEWALK

EXISTING R/W

XXXX
ASPHALT
P.E.

TLE

+14
25' PE

SLOPE INTERCEPT, TYP

XX
ASPHALT
P.E.

+45
14' PE

END CONSTRUCTION
STA 457'NB'+84.00
MATCH EXISTING
SAWCUT REQUIRED

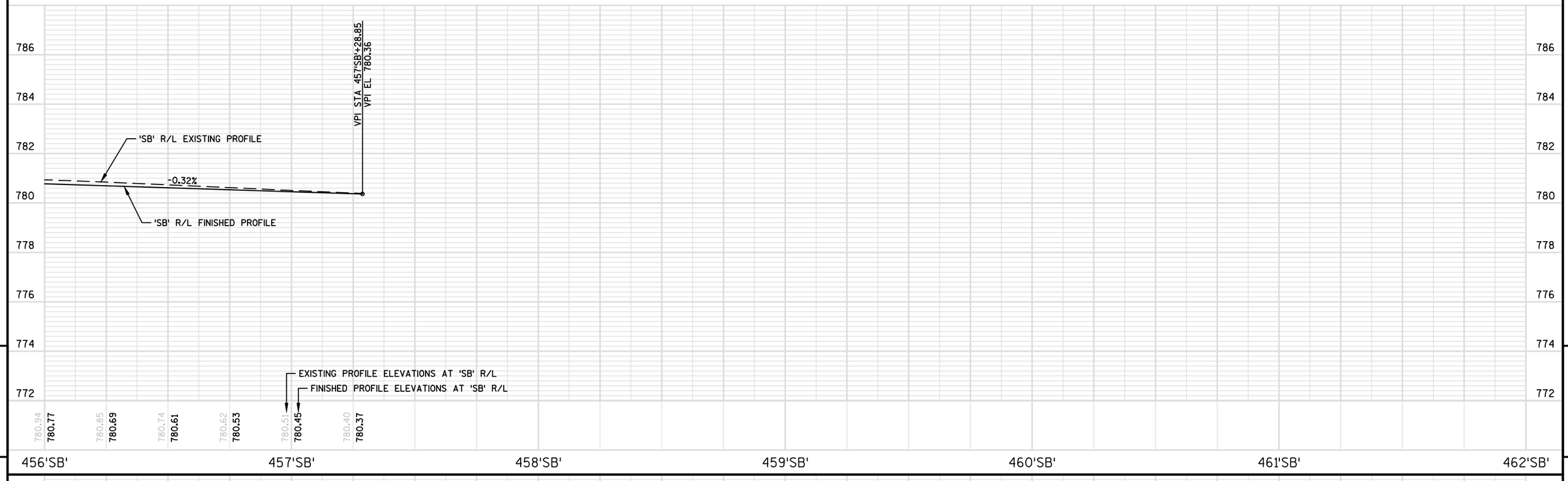
FRENCHIE'S
TAVERN

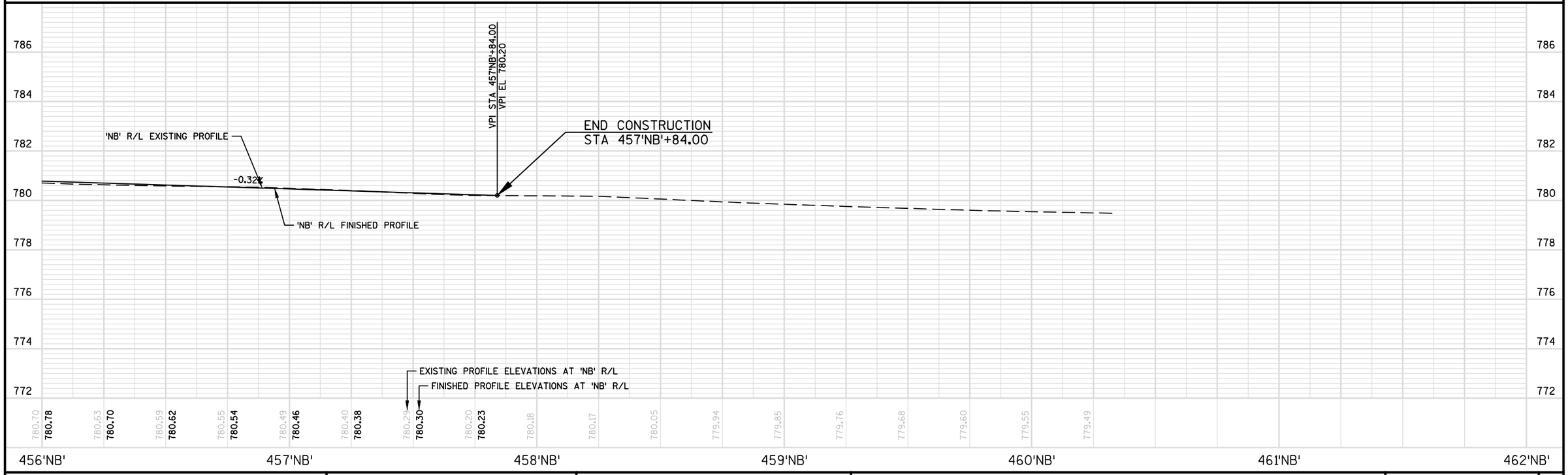
NEXTMEDIA
OUTDOOR INC

BRENNER TANK LLC

RICH'S
ENGINE REPAIR
& SERVICE

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: MILITARY ROAD	SHEET 270	E





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: MILITARY ROAD	SHEET 271	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050201-PP.DWG
LAYOUT NAME - 49860022-050201-PP-08-MILITARY
PLOT DATE : 7/29/2016 9:39 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

FLEET FARM
CAR WASH

N

TLE

5' CONCRETE SIDEWALK

EXISTING R/W

CTH VV
PIONEER ROAD

277'EB'

277'WB'

10' ASPHALT
MULTI-USE PATH

EXISTING R/W

TLE

AIRGAS

REMOVE DRIVEWAY

TLE

TLE

ASPHALT
PARKING LOT

GATE

INL

SS

HEIGHT TO
BOTTOM OF
SIGN=16.45'

5' CONCRETE SIDEWALK

PROPOSED R/W

+91
32' CE

SLOPE INTERCEPT, TYP

20'SUL'

278'EB'

278'WB'

18"RCP

521'SUL'

10' CONCRETE
MULTI-USE PATH

279'EB'

279'WB'

EXISTING R/W

PROPOSED R/W

TLE

522'SUL'

+75
32' CE

EXISTING R/W

280'WB'

10' ASPHALT
MULTI-USE PATH

EXISTING R/W

PROPOSED R/W

TLE

523'SUL'

524'SUL'

525'SUL'

SULLIVAN DRIVE

+83
32' CE

18"RCP

42"RCP

12"RCP

5' CONCRETE SIDEWALK

EXISTING R/W

TLE

+74
32' CE

SLOPE INTERCEPT, TYP

28"X42" CMPA

ROGERSVILLE
ROAD

15"CMP

END CONSTRUCTION
STA 524'SUL'+50.00
MATCH EXISTING
SAWCUT REQUIRED

6"PVC

FLEET FARM
GAS STATION

ASPHALT
PARKING LOT

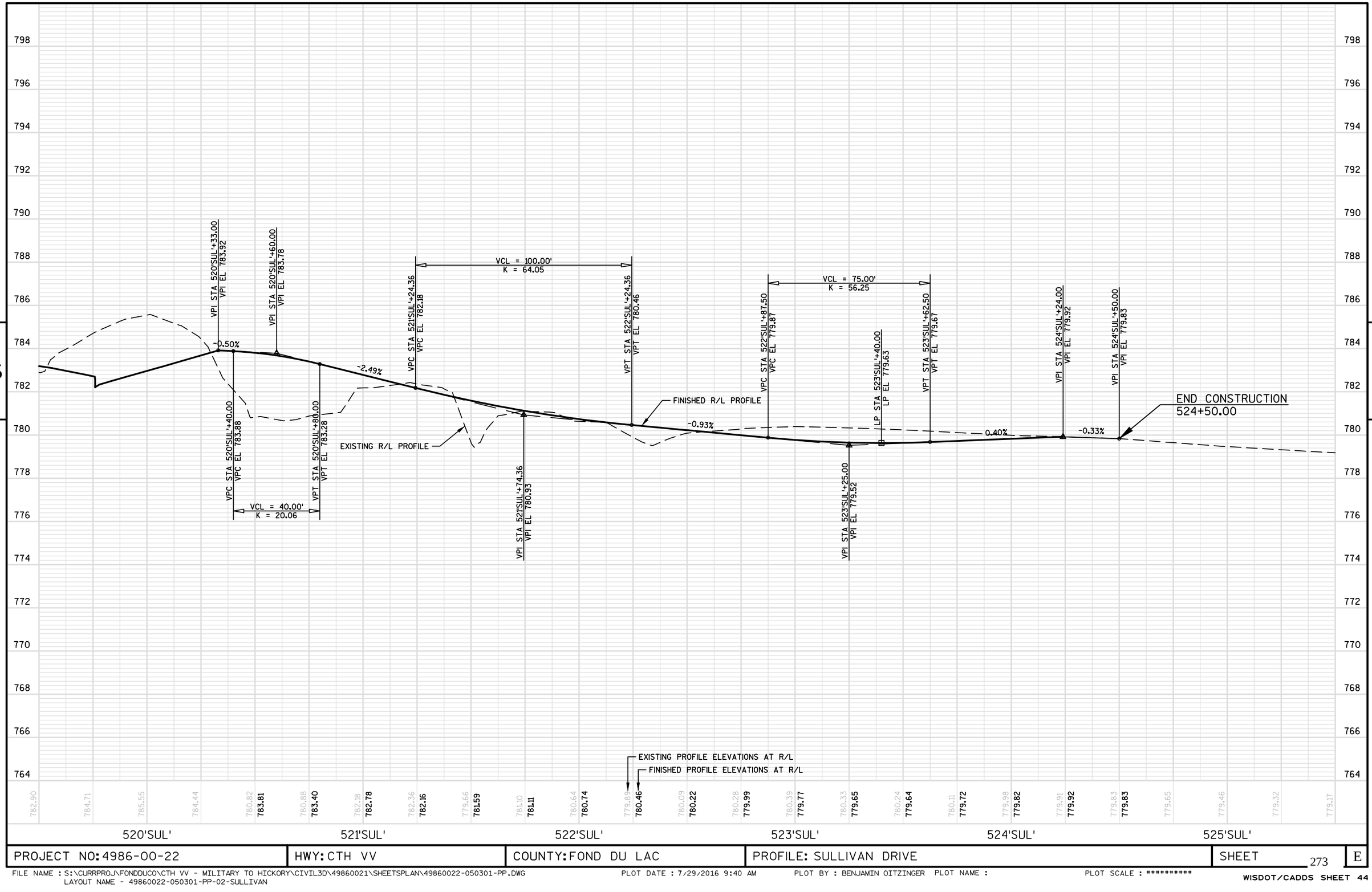
FLEET FARM

PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN: SULLIVAN DRIVE	SHEET 272	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050301-PP.DWG
LAYOUT NAME - 49860022-050301-PP-01-SULLIVAN

PLOT DATE : 9/1/2016 4:11 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PROFILE: SULLIVAN DRIVE	SHEET 273	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050301-PP.DWG
LAYOUT NAME - 49860022-050301-PP-02-SULLIVAN

PLOT DATE : 7/29/2016 9:40 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

FLEET FARM

FRENCHIE'S TAVERN

RICH'S ENGINE REPAIR & SERVICE

MANOWSKE WELDING

MILITARY ROAD

ROGERSVILLE ROAD

OAK PARK AVENUE

455'SB' 455'NB' 454'SB' 454'NB'

29'OAK' 30'OAK' 31'OAK' 32'OAK' 33'OAK'

BEGIN CONSTRUCTION
STA 29'OAK'+16.08
MATCH EXISTING
SAWCUT REQUIRED

END CONSTRUCTION
STA 30'OAK'+71.50
MATCH EXISTING
SAWCUT REQUIRED

5' CONCRETE SIDEWALK

EXISTING R/W

TLE

SLOPE INTERCEPT, TYP

REMOVE DRIVEWAY

ASPHALT P.E.

CONCRETE C.E.

GRAVEL C.E.

30"RCP 24"RCP 12"RCP 8"RCP

VPI STA 29'OAK'+16.08
VPI EL 780.88

VPI STA 29'OAK'+68.00
VPI EL 780.16

VPI STA 30'OAK'+00.00
VPI EL 780.80

VPI STA 30'OAK'+21.00
VPI EL 780.38

VPI STA 30'OAK'+63.00
VPI EL 780.79

VPI STA 30'OAK'+71.50
VPI EL 780.76

-1.38% 2.00% -2.00% 0.97% -0.30%

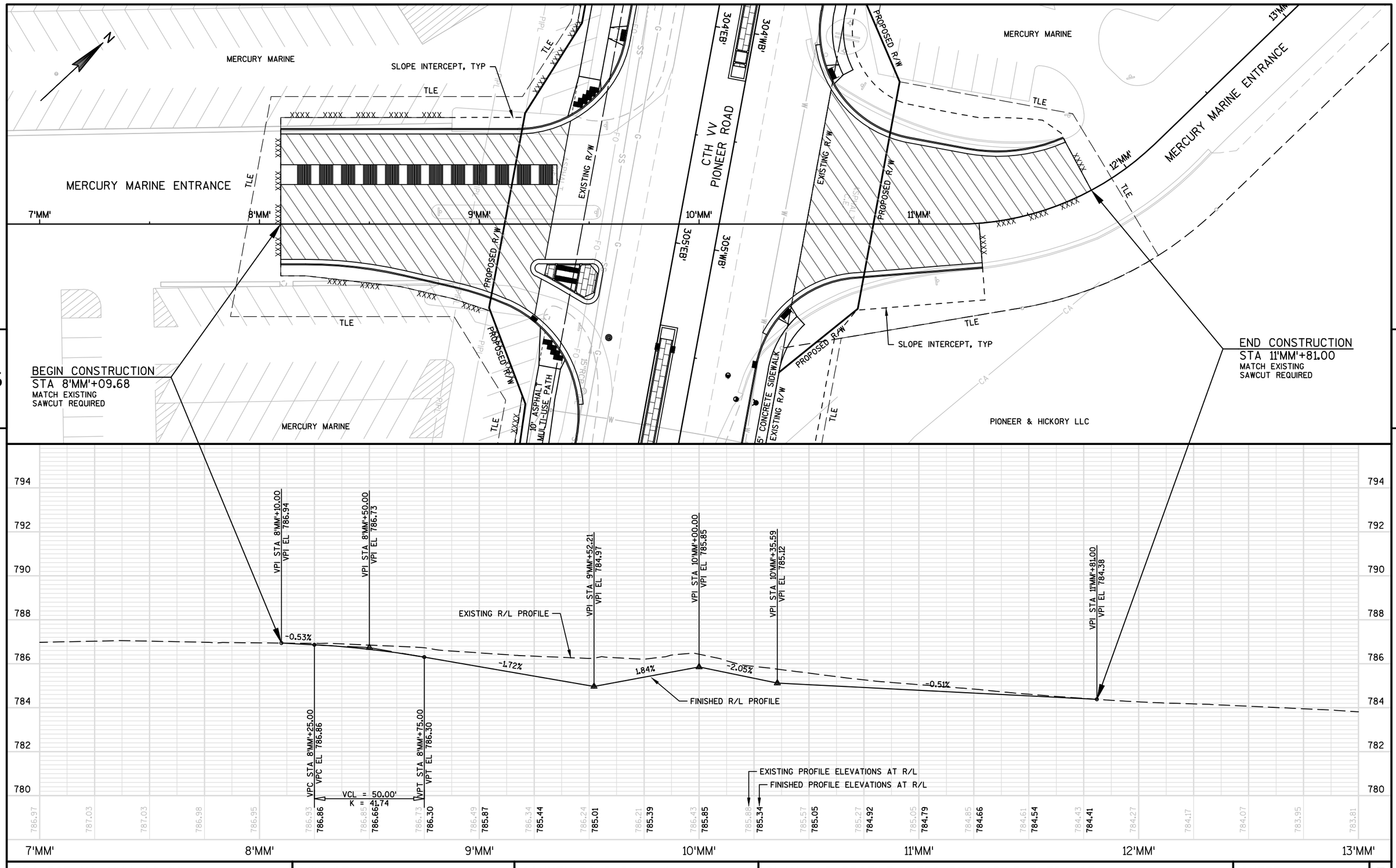
EXISTING R/L PROFILE

FINISHED R/L PROFILE

EXISTING PROFILE ELEVATIONS AT R/L

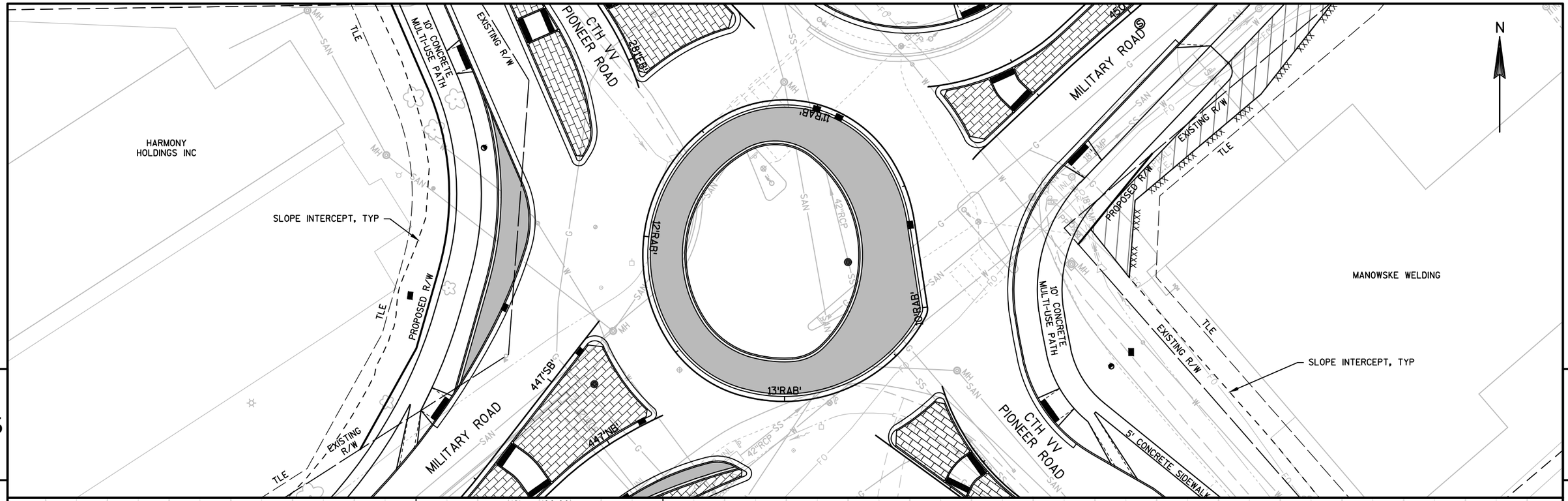
FINISHED PROFILE ELEVATIONS AT R/L

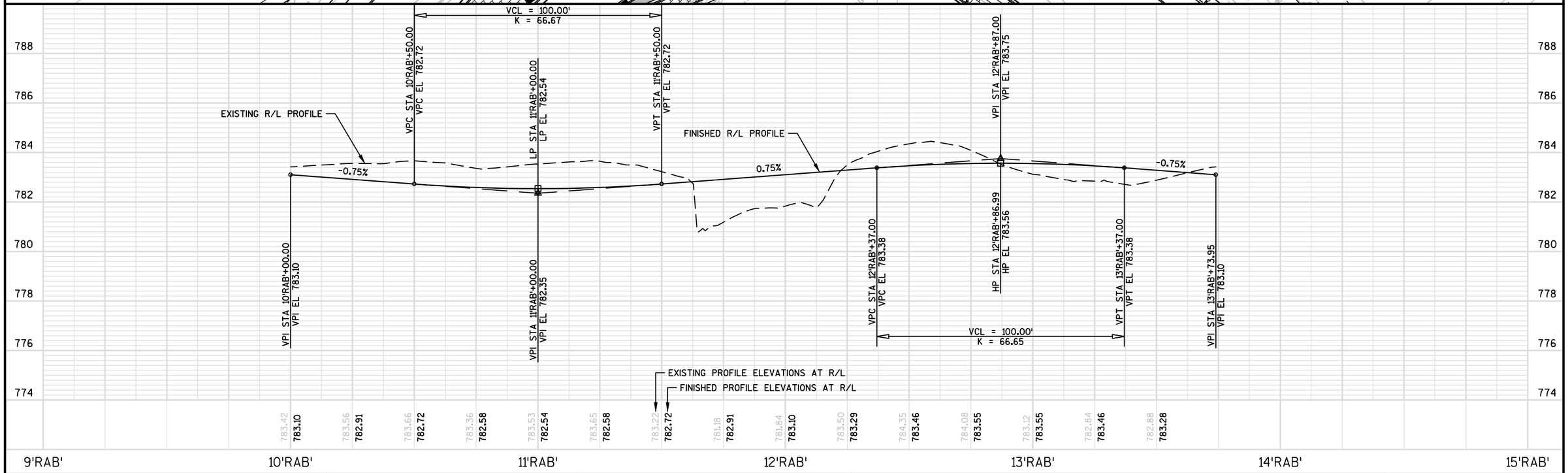
| | | |



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN AND PROFILE: MERCURY MARINE ENTRANCE	SHEET 275	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050301-PP.DWG
LAYOUT NAME - 49860022-050301-PP-04-MERCURY
PLOT DATE : 7/29/2016 9:41 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	PLAN AND PROFILE: CTH VV - ROUNDABOUT	SHEET 276	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-050401-PP.DWG
LAYOUT NAME - 49860022-050401-PP-01-ROUNDABOUT
PLOT DATE : 7/29/2016 9:42 AM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

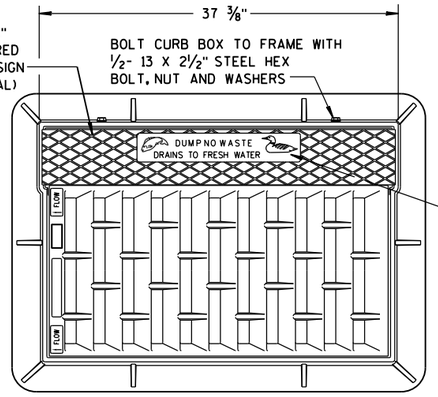
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A09-01	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08B11-01	MANHOLES VARIABLE TEE AND SPECIAL 4-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-16A	CURB RAMPS TYPES 1 AND 1-A
08D05-16B	CURB RAMPS TYPES 2 AND 3
08D05-16C	CURB RAMPS TYPES 4A AND 4A1
08D05-16D	CURB RAMPS TYPE 4B AND 4B1
08D05-16E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
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
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C12-07A	CONCRETE BASE TYPE 13
09C12-07B	CONCRETE BASE TYPE 13
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-02	LIGHTING CONTROL CABINET 120/240 VOLT
09D05-01	L30 LIGHTING CONTROL CABINET 240/480 VOLT
09E01-14C	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-07C	TYPE 12 POLE 35'-55' MONOTUBE ARM
09E08-07E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
11B01-05	CONCRETE CORRUGATED MEDIAN
11B02-02	CONCRETE MEDIAN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-03E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDABOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)

6

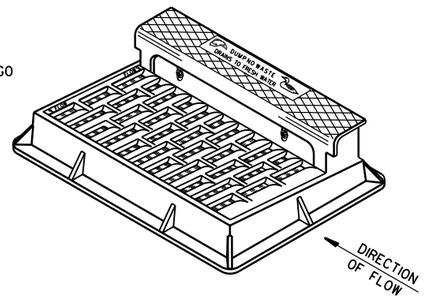
Standard Detail Drawing List

15C18-03	MEDIAN ISLAND MARKING
15C23-03	30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C26-02	END-OF-ROADWAY SIGNING
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C29-03A	BICYCLE LANE MARKING
15C29-03B	BICYCLE LANE MARKING
15C29-03C	URBAN BICYCLE LANE MARKING
15C29-03D	URBAN BICYCLE LANE MARKING
15C29-03E	PAVEMENT MARKING FOR BIKE LANES
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-03	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

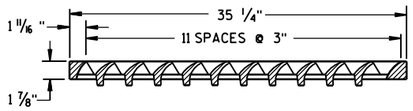
6

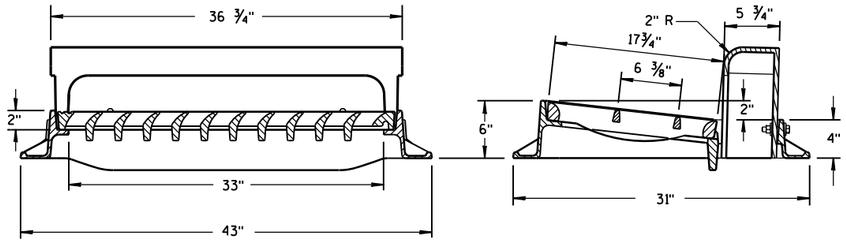


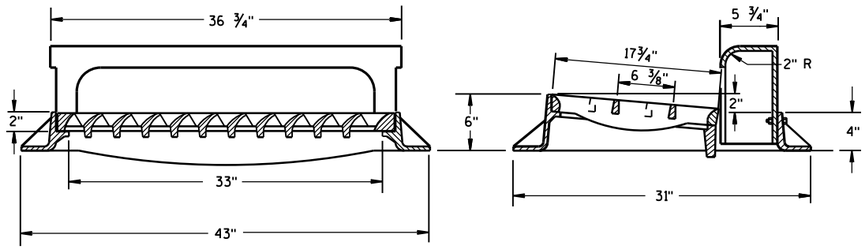
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

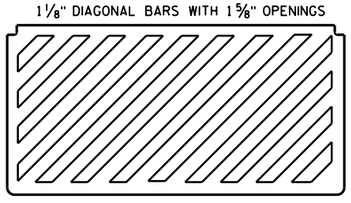






TYPE "H"

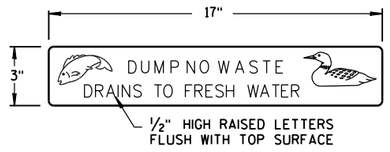
NOTE: EITHER CASTING IS ACCEPTABLE



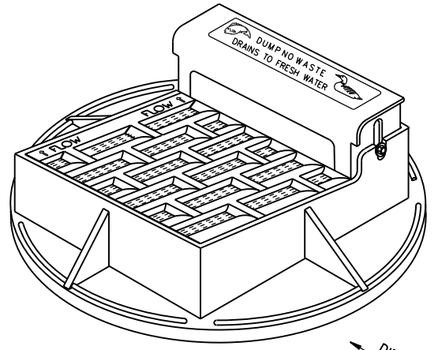
SPECIAL GRATE FOR TYPE "H" COVER

(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"

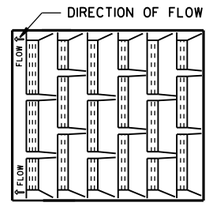
NOTE:
GRATE IS REVERSIBLE.

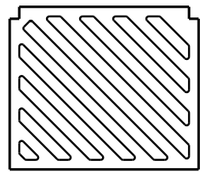
GENERAL NOTES

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.

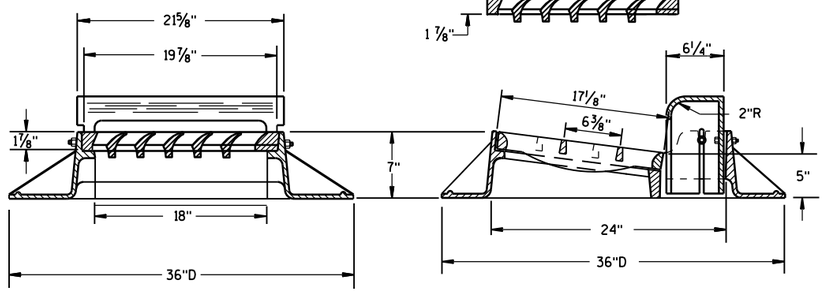




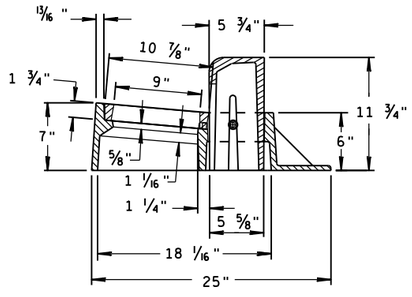
SPECIAL GRATE FOR TYPE "A" COVER

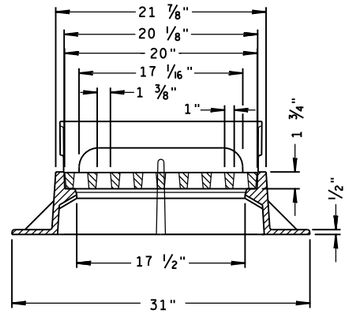
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

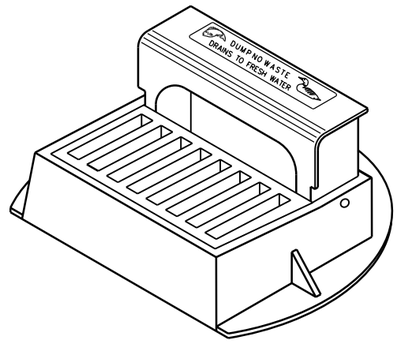


TYPE "A"





TYPE "Z"



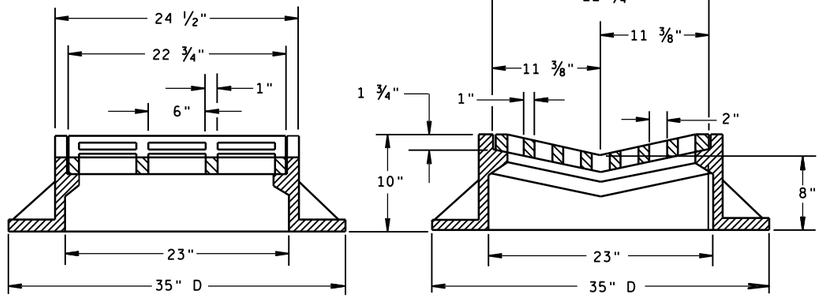
INLET COVERS
TYPE A, H, A-S, H-S & Z

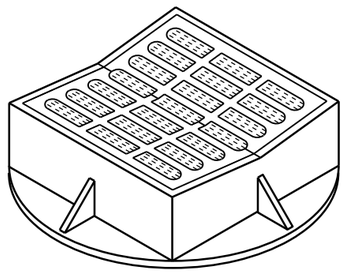
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

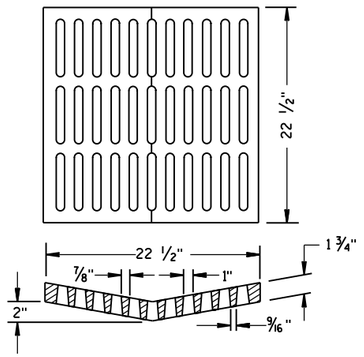
6

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



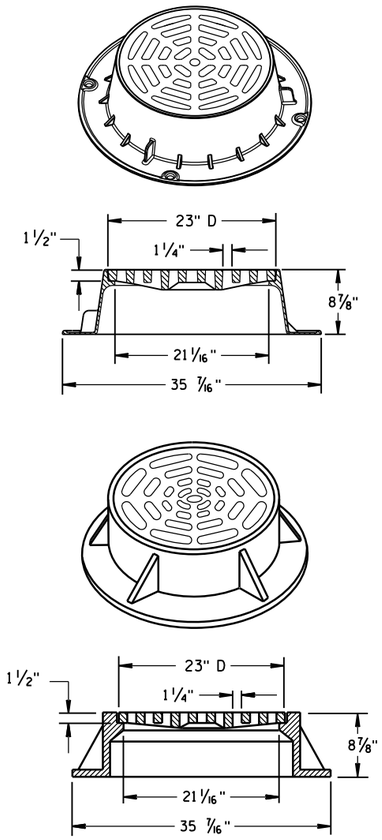


TYPE "B"



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"

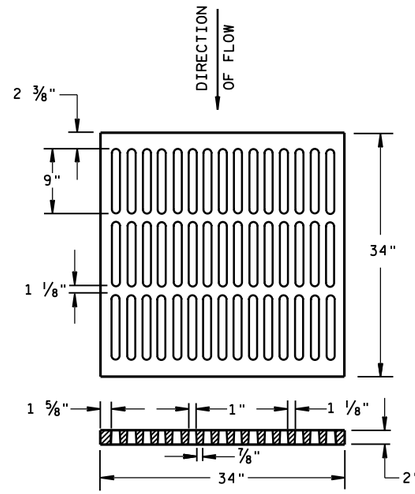
NOTE: EITHER CASTING IS ACCEPTABLE

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.

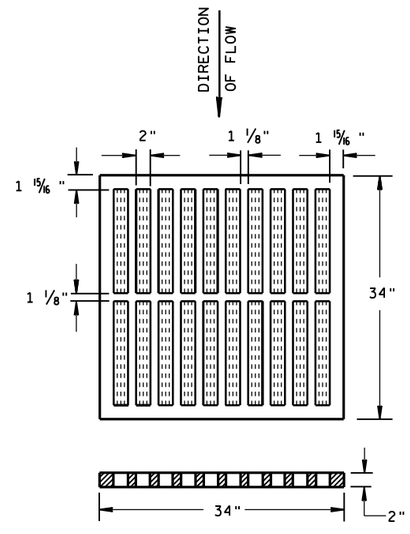
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



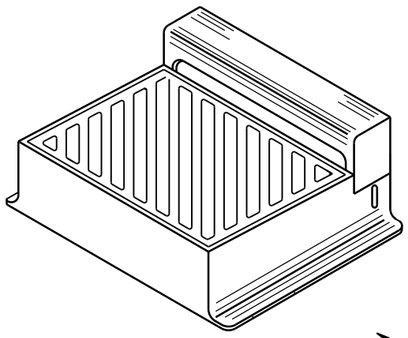
ALTERNATIVE TYPE "MS"

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

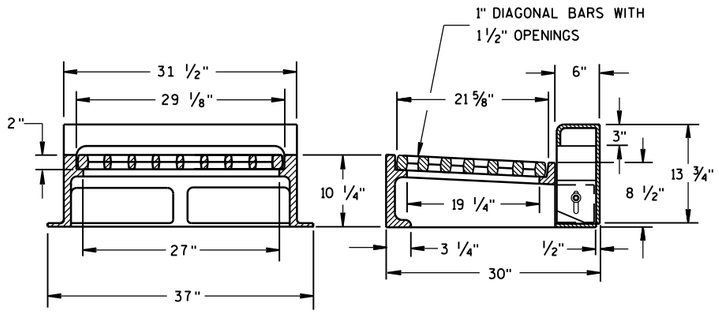


TYPE "MS"

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"

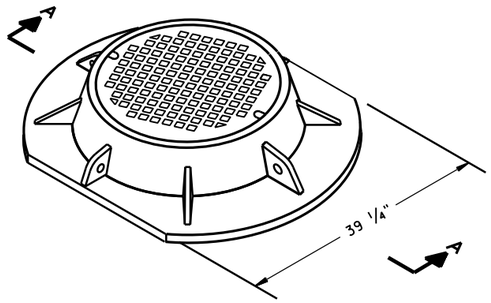
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

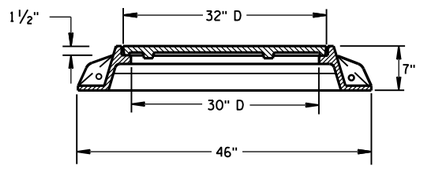
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

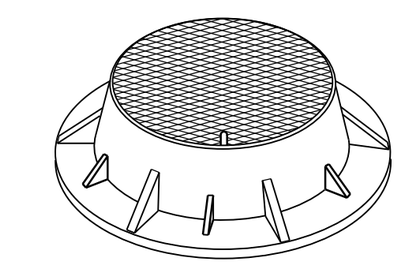
6

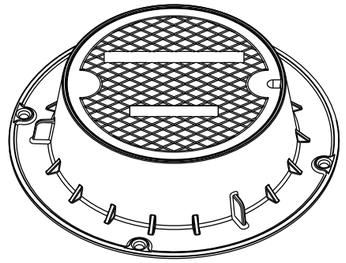
S.D.D. 8 A 5-19b

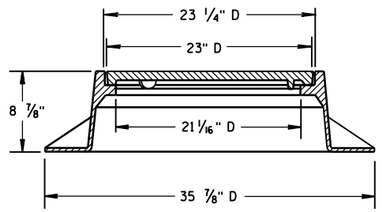


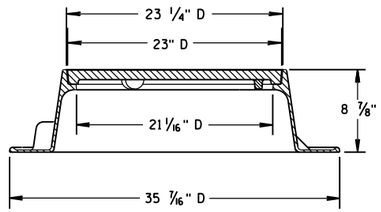


SECTION A-A
TYPE "K"









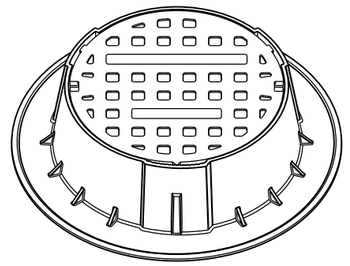
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

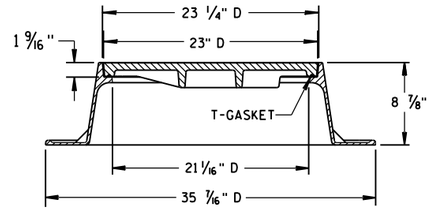
GENERAL NOTES

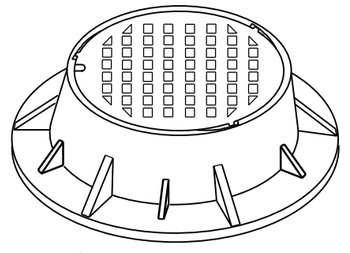
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

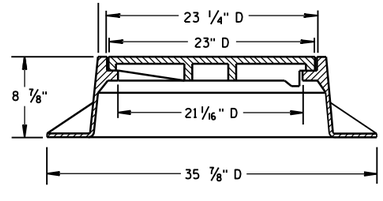
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

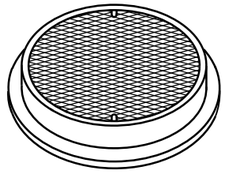


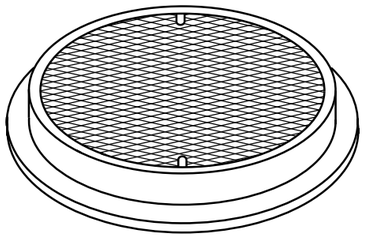


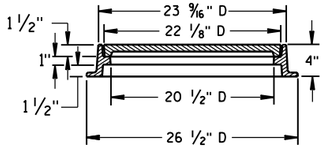




TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE







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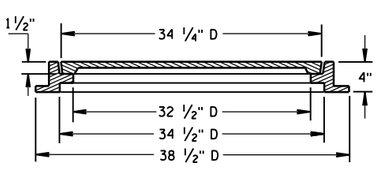

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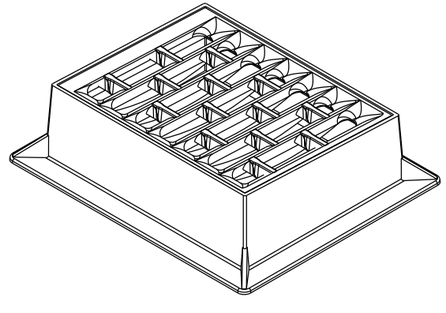
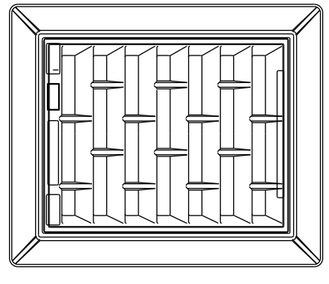
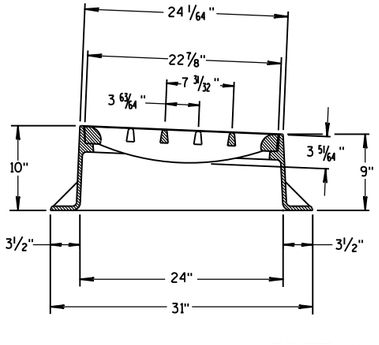
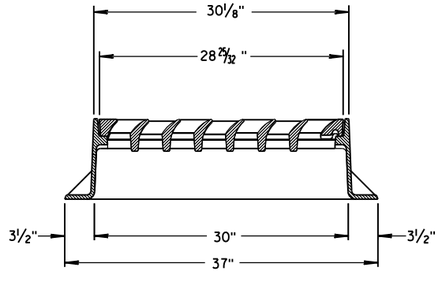








INLET COVER TYPE "BW"

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

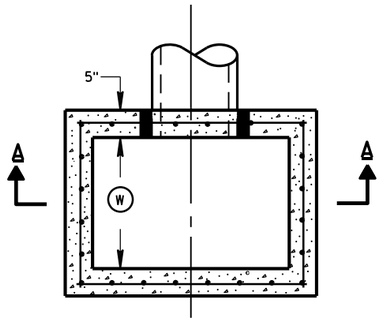
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

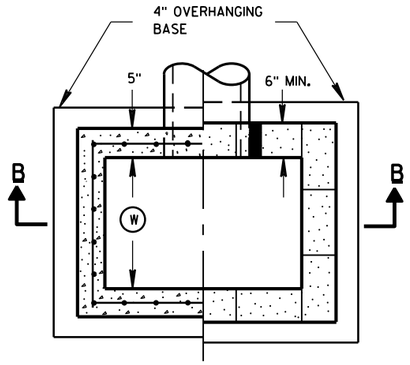
S.D.D. 8 A 5-19d

6

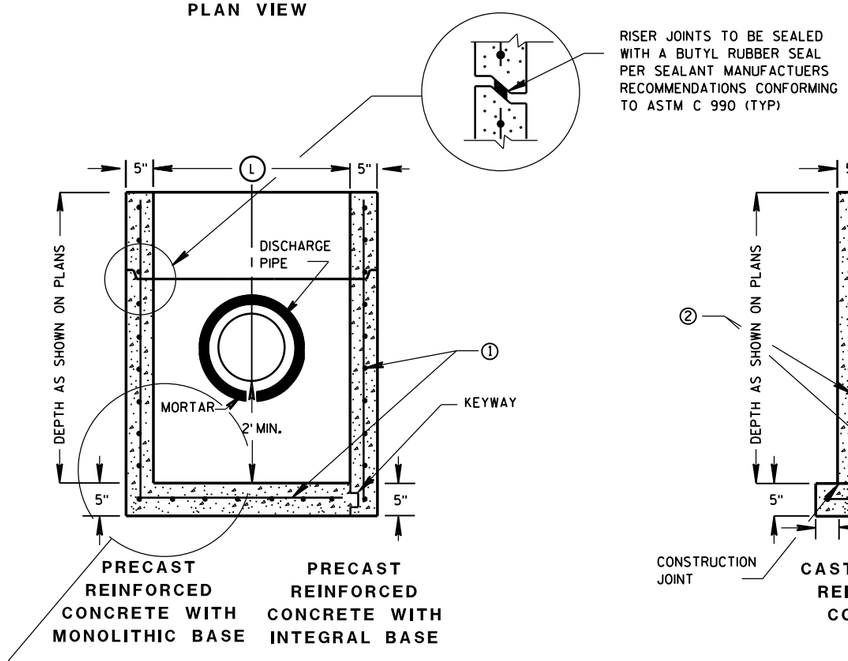
S.D.D. 8 A 5-19d



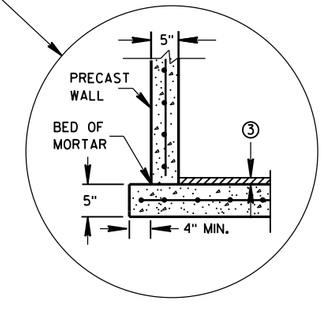
PLAN VIEW



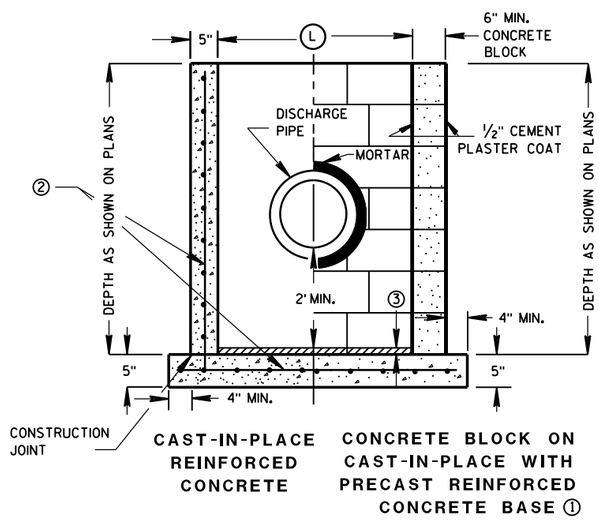
PLAN VIEW



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 GRANULAR 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.

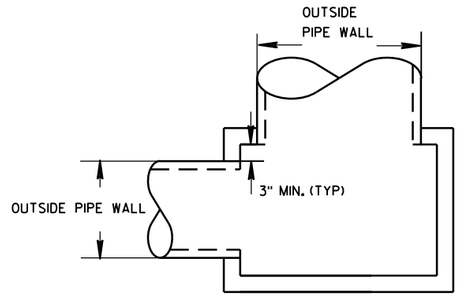
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

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"

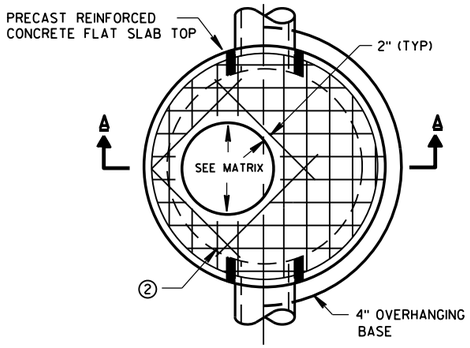
CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

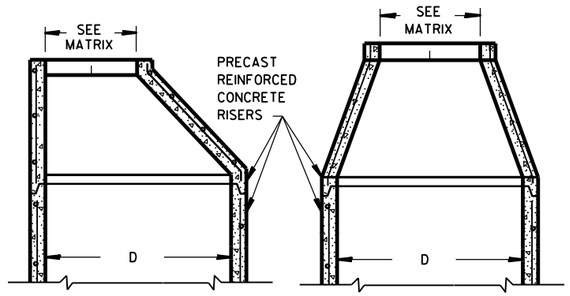
APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 A 9-1

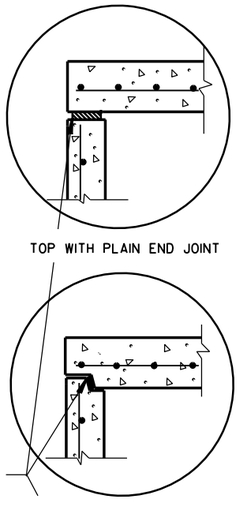


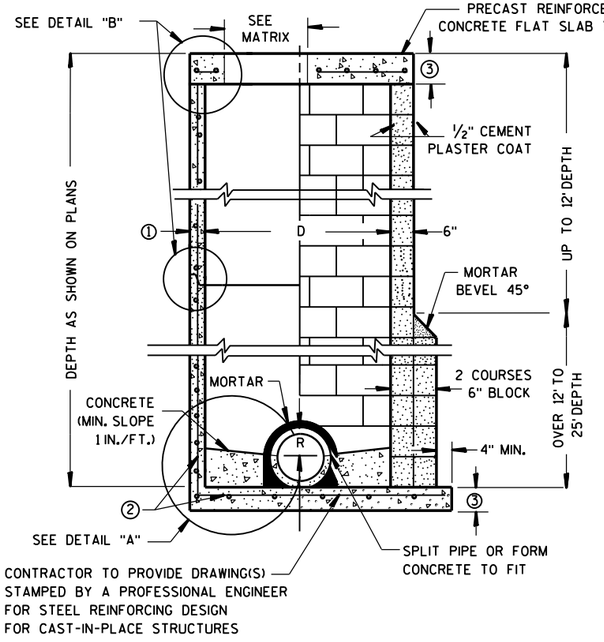
PLAN VIEW CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

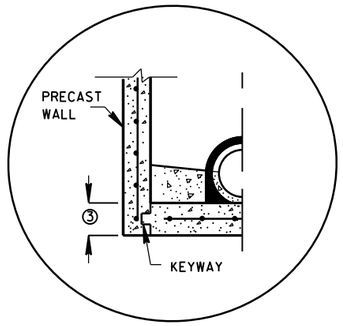
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



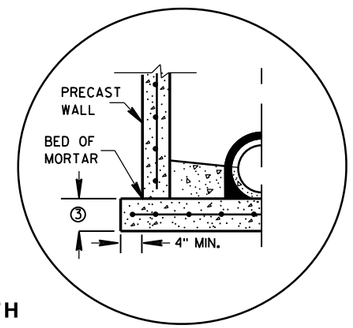


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

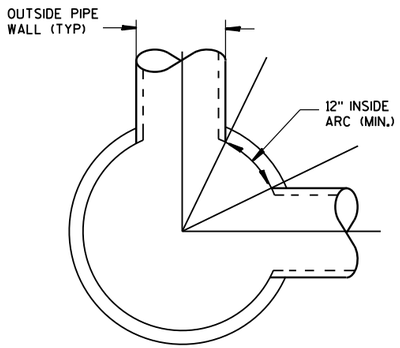


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

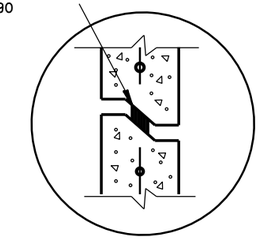


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"



DETAIL "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 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 GRANULAR 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. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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

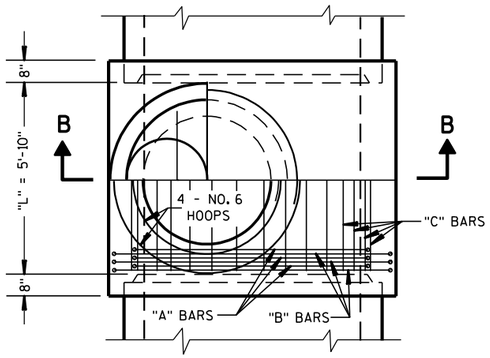
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

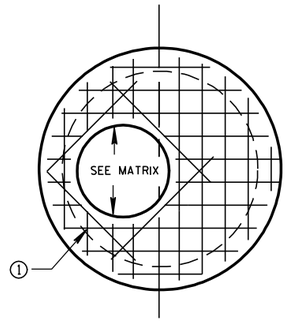
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

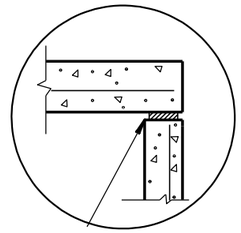
6
S.D.D. 8 B 9-1



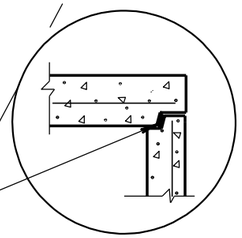
HALF SECTION A-A



PLAN VIEW PRECAST REINFORCED CONCRETE FLAT SLAB TOP WITH ECCENTRIC OPENING

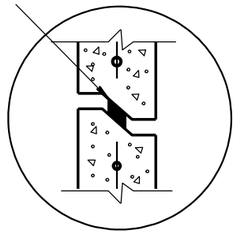


TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "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.

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 4T-L", "MANHOLES 4S-M", ETC. THE VARIABLE TEE IS DENOTED BY 4T AND THE VARIABLE SPECIAL IS DENOTED BY 4S. THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

STEPS MEETING 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 $\frac{1}{2}$ 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.

PRECAST SECTIONS SHALL BE INSTALLED ON A BED OF MORTAR.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE OR CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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.

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

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

ALL PRECAST MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

① FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE WITH AASHTO M 199.

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

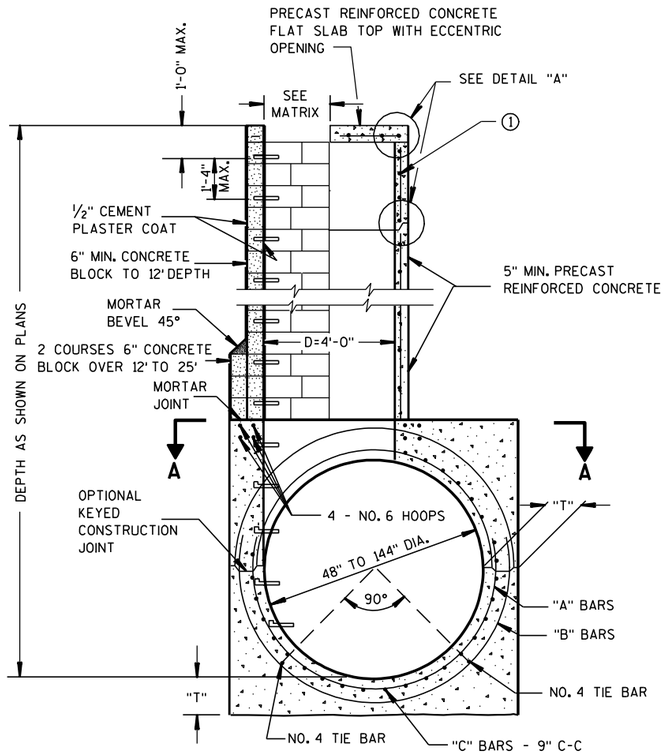
NOTES FOR MANHOLE VARIABLE SPECIAL 4-FT DIAMETER

NOTE: ALL "A", "B", AND "C" BAR STEEL REINFORCING IS THE SAME DIAMETER WHICH VARIES WITH DEPTH.
NO. 5 BARS TO 20' DEPTH
NO. 6 BARS OVER 20' TO 30' DEPTH
NO. 7 BARS OVER 30' TO 40' DEPTH

THE "A" AND "B" BARS MAY BE PLACED IN ONE OR TWO SEGMENTS, AND SHALL LAP 24 BAR DIAMETERS.

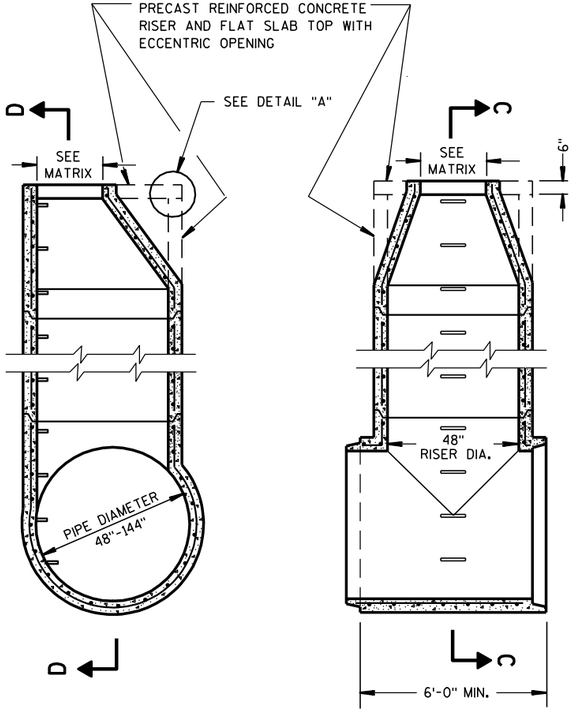
"C" BARS SHALL HAVE STANDARD HOOKED ENDS.

NOTE: "T" THROUGHOUT LENGTH "L" SHALL BE 13" FOR PIPE DIAMETER 48" TO 84" AND 15" FOR PIPE DIAMETER GREATER THAN 84".



SECTION B-B

MANHOLE VARIABLE SPECIAL 4-FT DIAMETER



SECTION C-C

SECTION D-D

MANHOLE VARIABLE TEE 4-FT DIAMETER

MANHOLE VARIABLE TEE AND SPECIAL 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6
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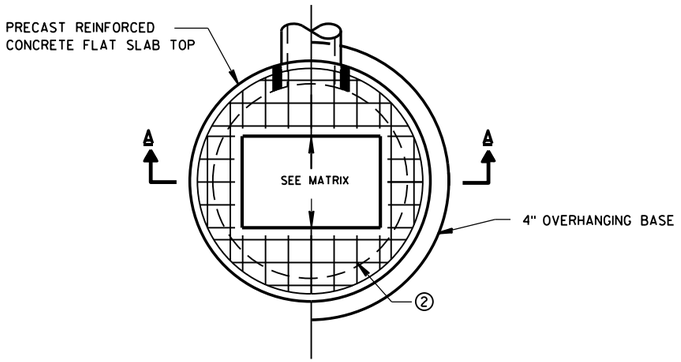
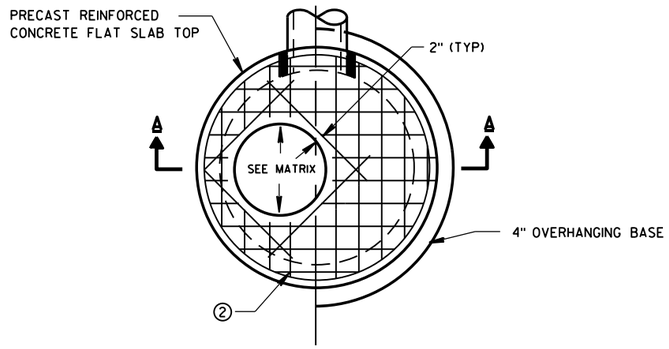
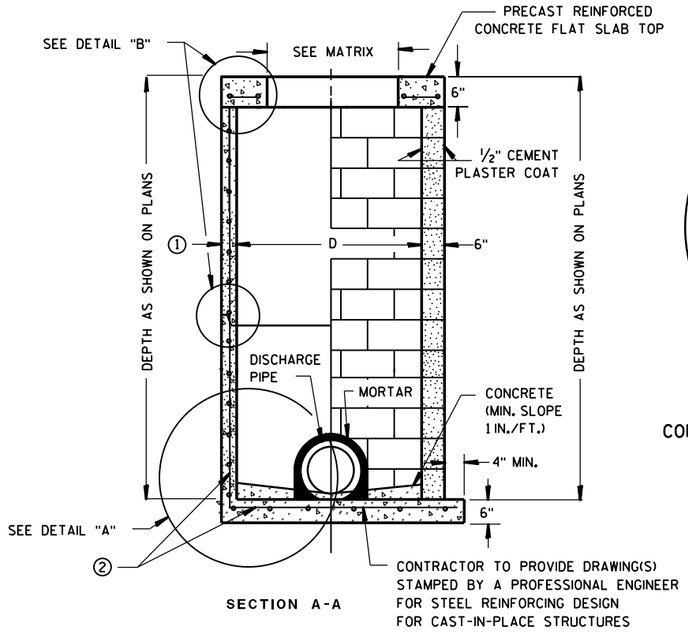


PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

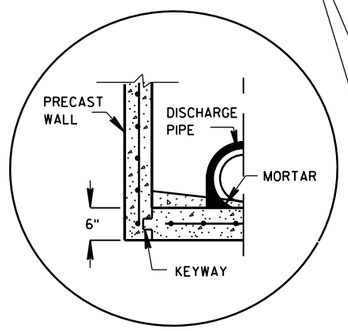


SECTION A-A

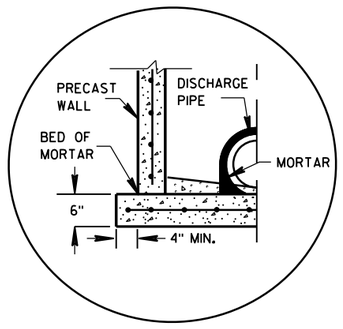
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

CIRCULAR INLETS W/ FLAT TOP

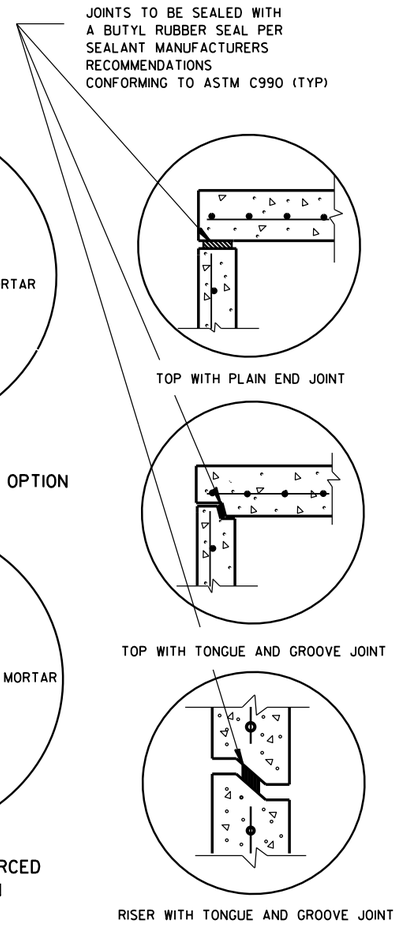


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "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 INLET 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 GRANULAR 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.

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.

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.

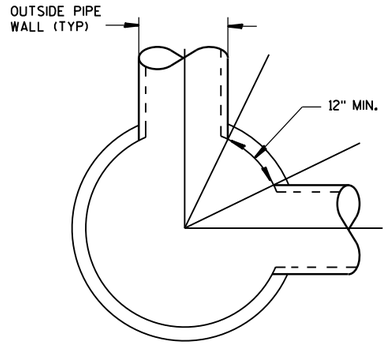
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

INLETS 3-FT AND 4-FT DIAMETER

6

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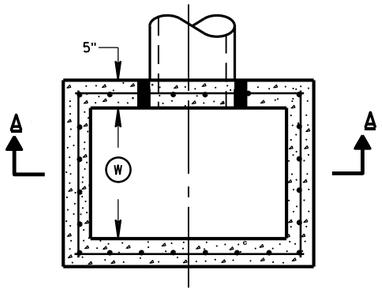
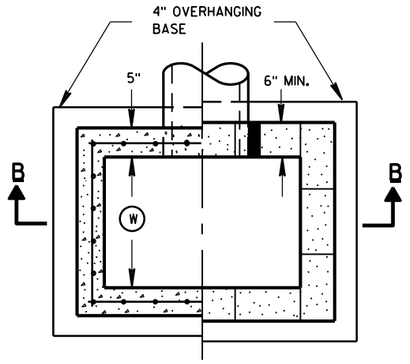
6

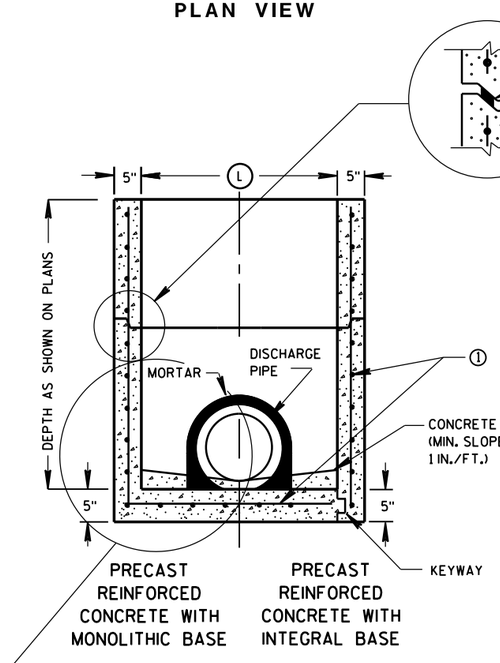
S.D.D. 8 C 6-1



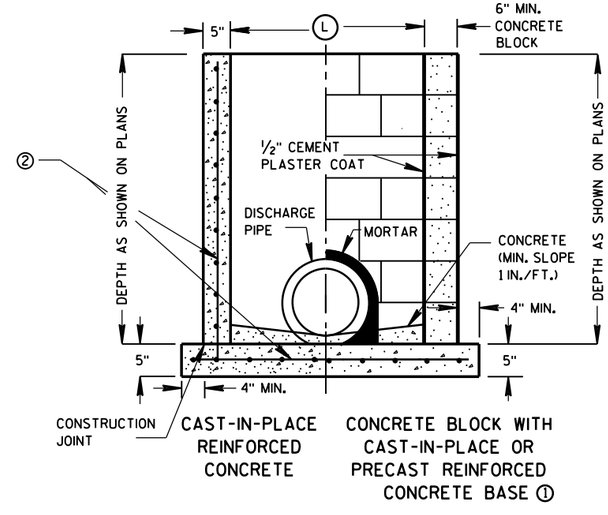
PLAN VIEW



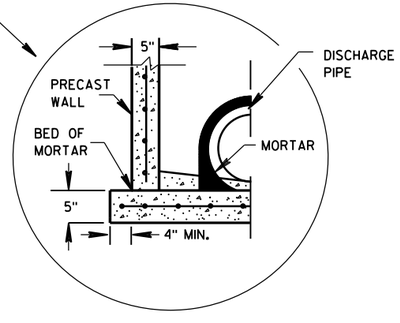
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

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 INLET 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 INLET 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 GRANULAR 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 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

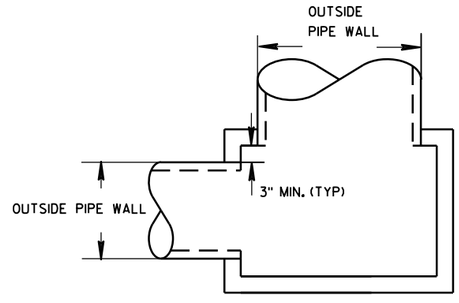
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER
FHWA

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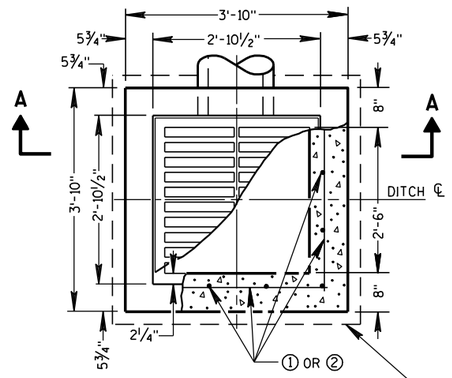
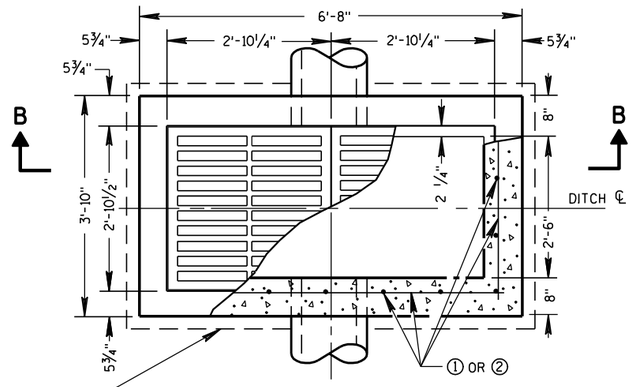
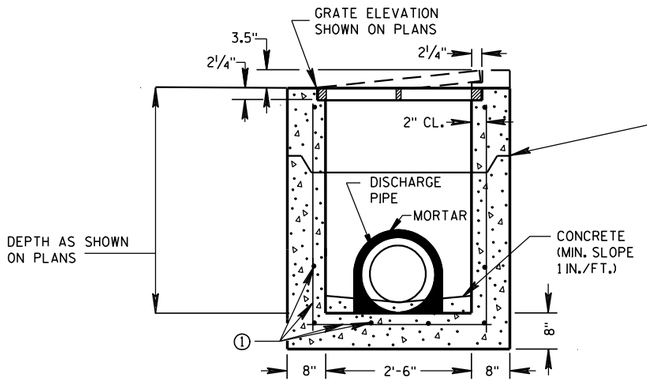


PLAN VIEW

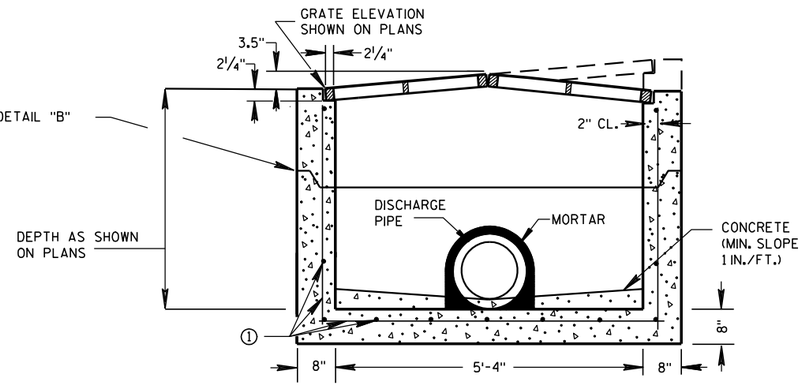


PLAN VIEW

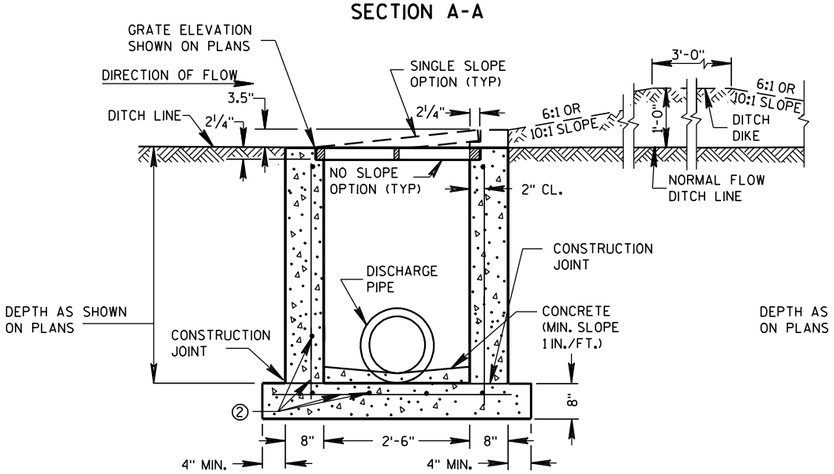
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



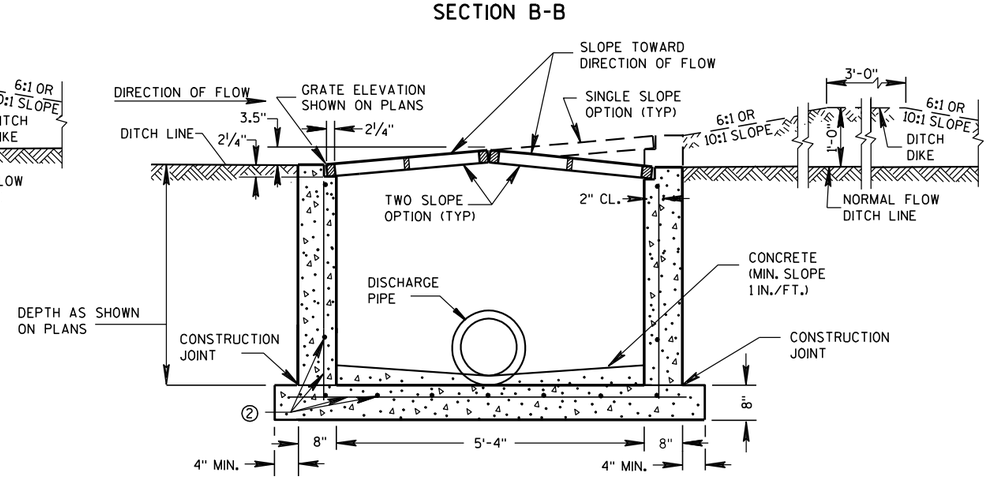
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

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 INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

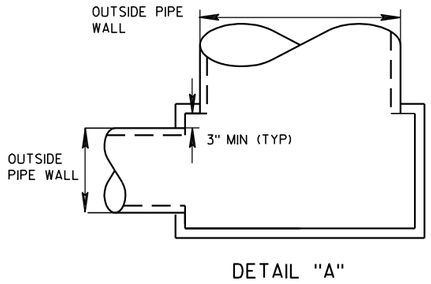
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS 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.

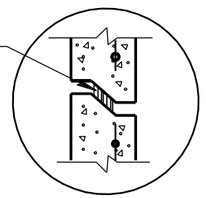
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

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



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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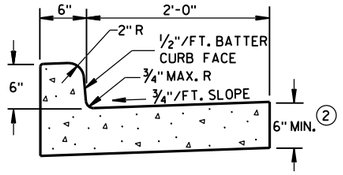
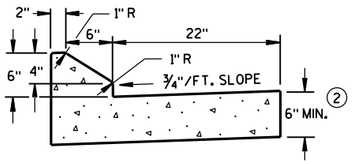
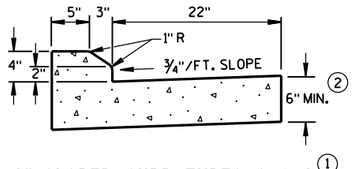


TYPES A & D ①

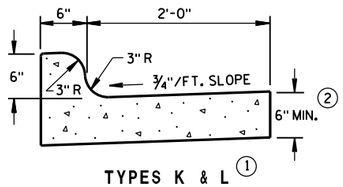


6" SLOPED CURB TYPES G & J ①

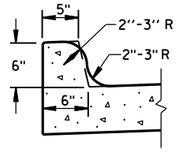


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

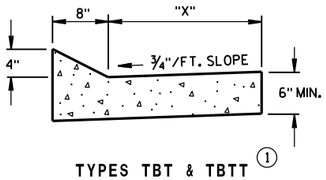


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

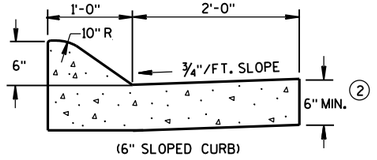
CONCRETE CURB & GUTTER 30"



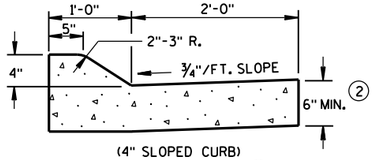
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

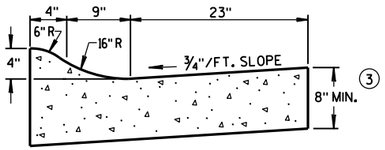


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

CONCRETE CURB & GUTTER 36"

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. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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.

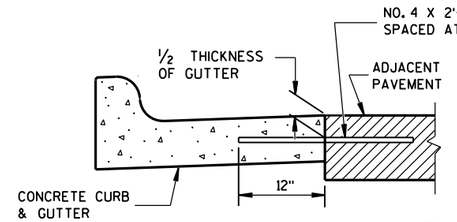
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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.

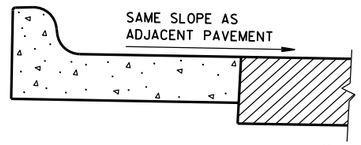
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

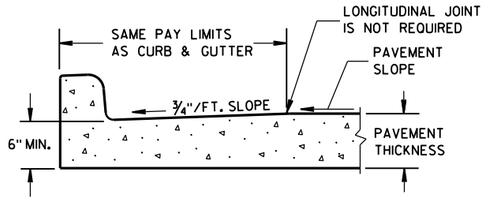
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



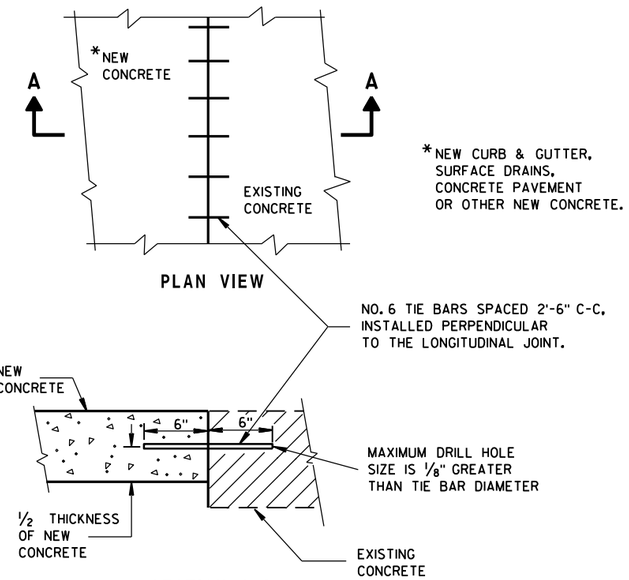
TYPICAL TIE BAR LOCATION ①



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)



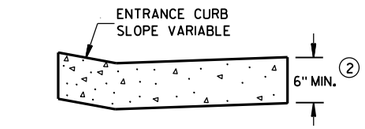
PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



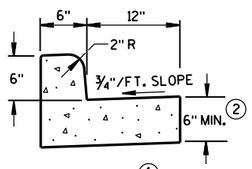
PLAN VIEW

SECTION A-A

TIE BARS DRILLED
INTO EXISTING PAVEMENT

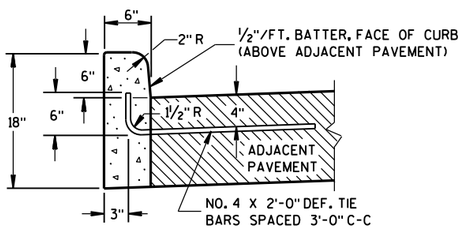


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

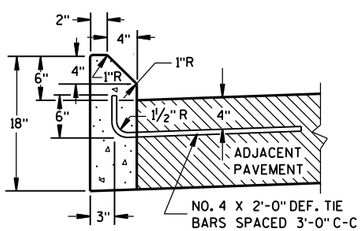


① TYPES A & D

CONCRETE CURB & GUTTER 18"

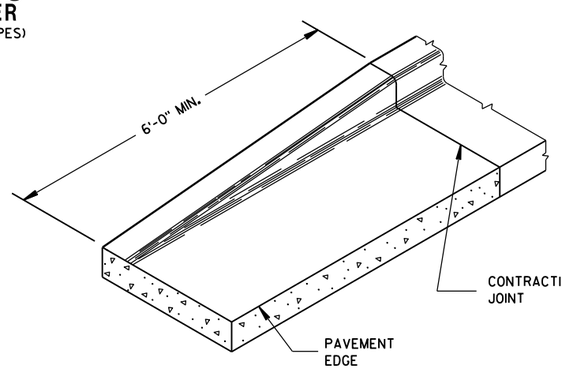


① TYPES A & D



① TYPES G & J

CONCRETE CURB



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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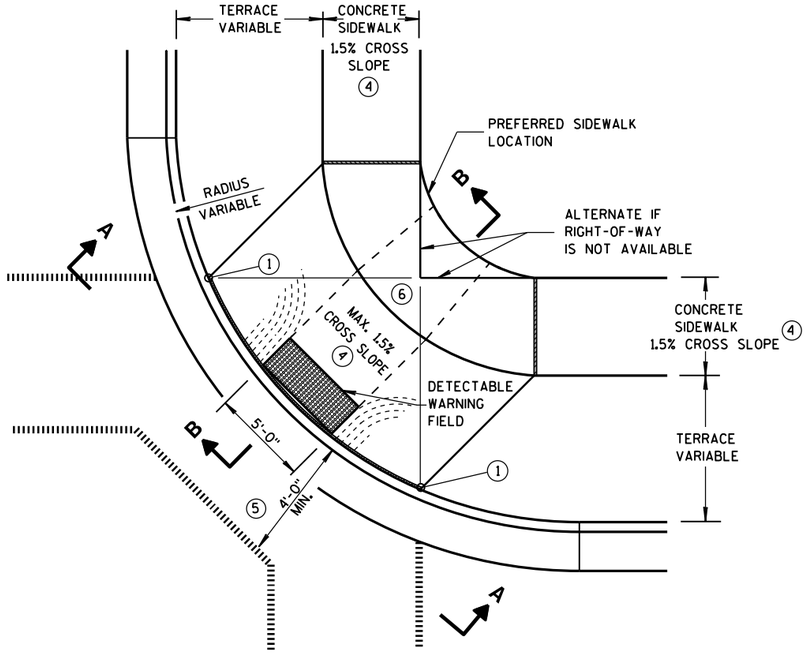
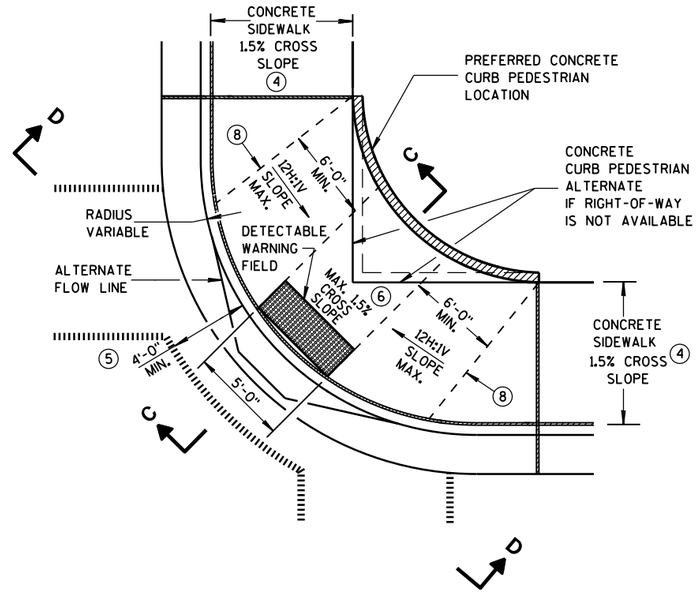
S.D.D. 8 D 1-18



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

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.

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.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN $\frac{1}{4}$-INCH ARE ALLOWED.

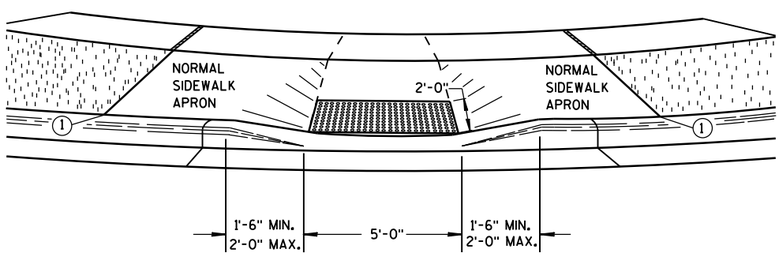
(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(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.

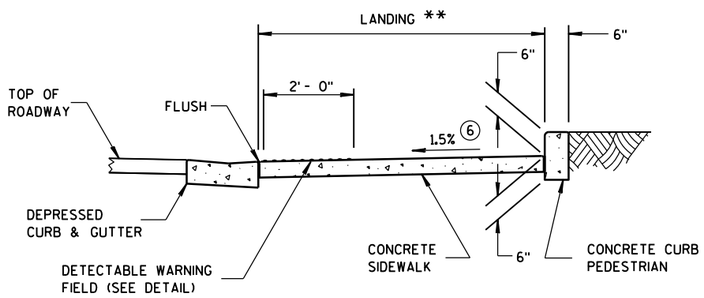
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A-A

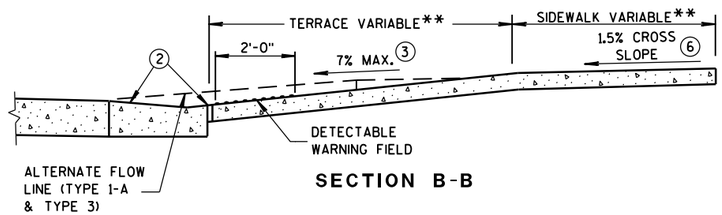
** WIDTH SHOWN ELSEWHERE IN THE PLANS



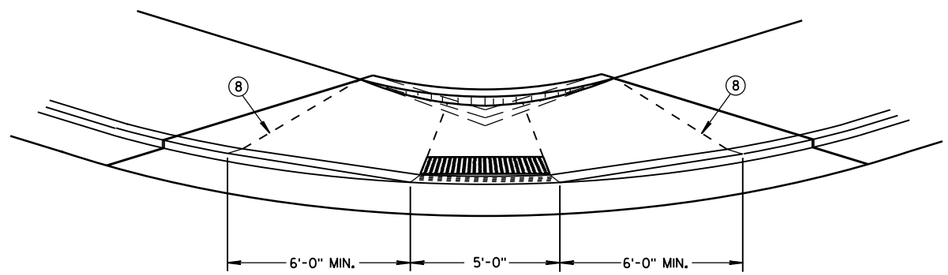
SECTION C-C

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



SECTION B-B



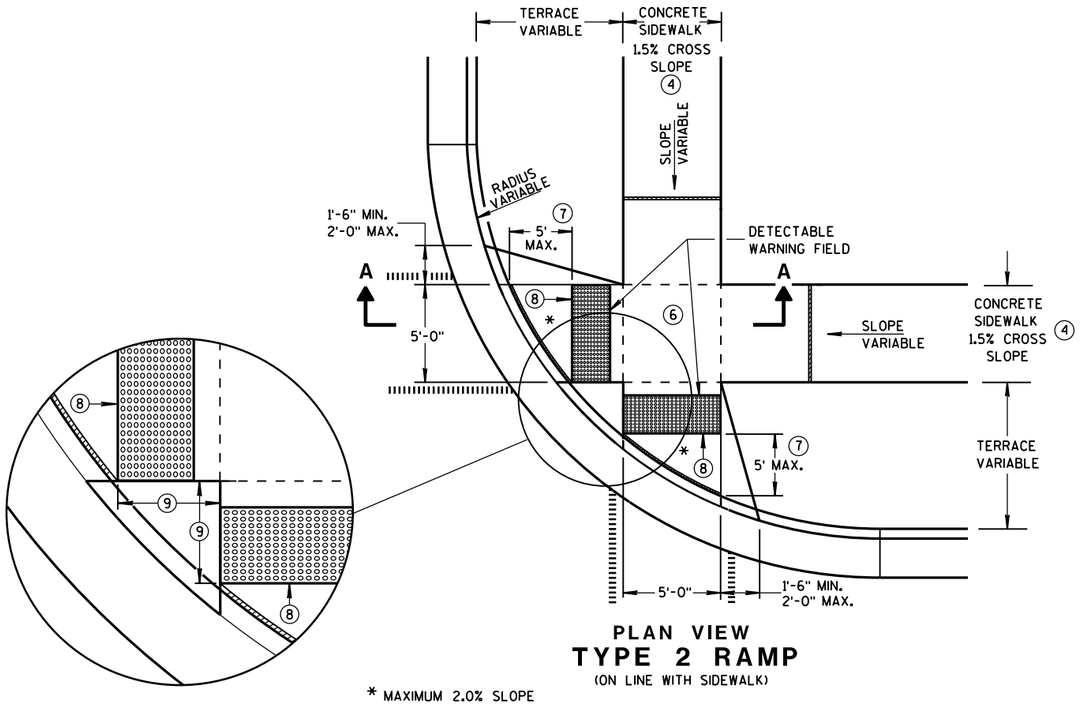
VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-16a

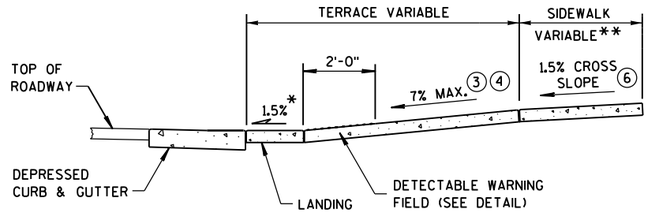


PLAN VIEW

TYPE 2 RAMP

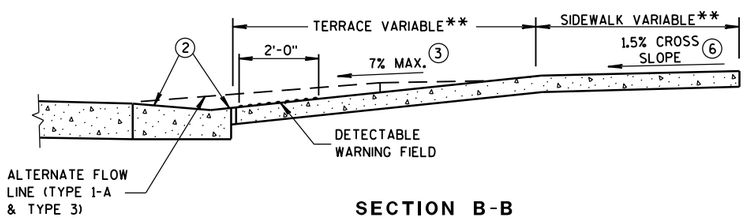
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

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 DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(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 (MINIMUM 4 FEET X 4 FEET).

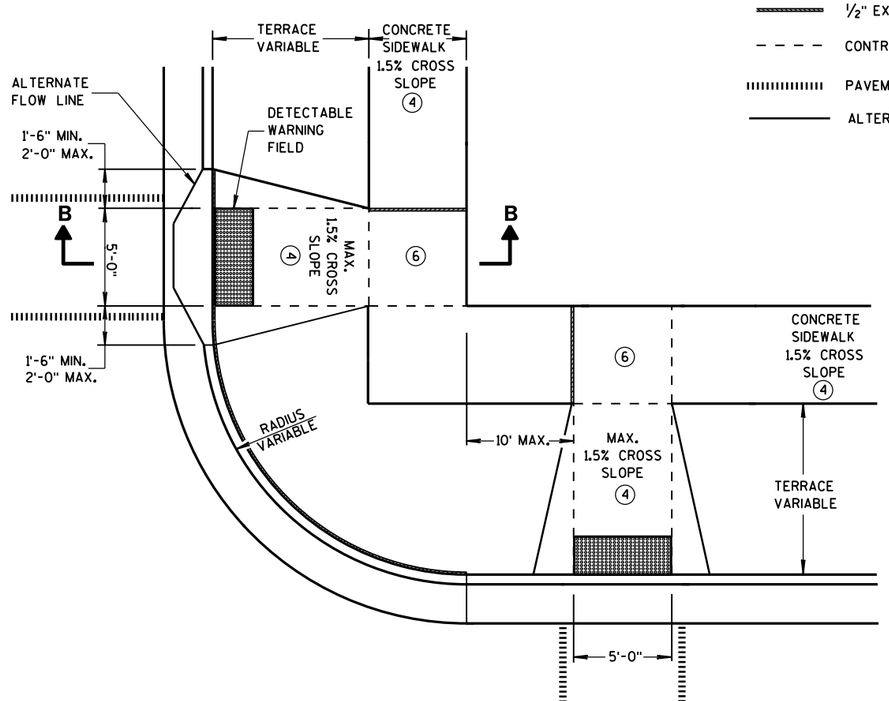
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(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. 2" MINIMUM CURB HEIGHT.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

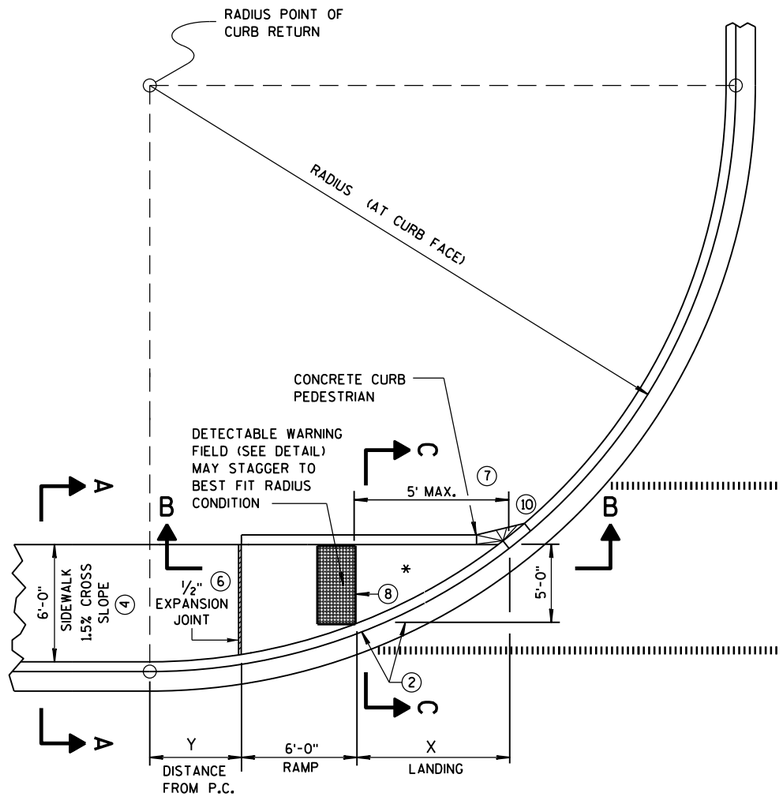
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

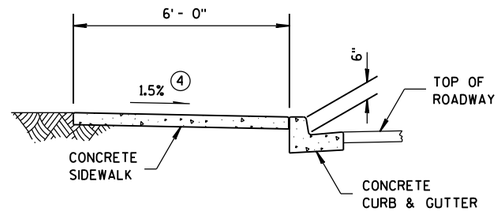
S.D.D. 8 D 5-16b



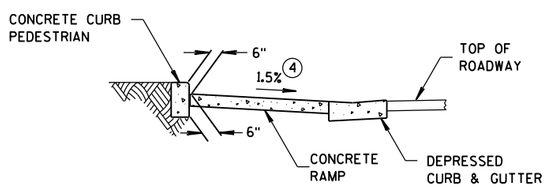
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

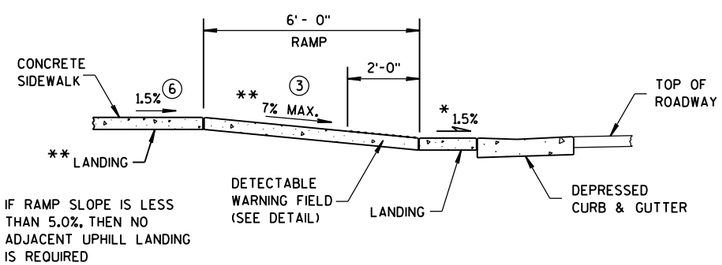
INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

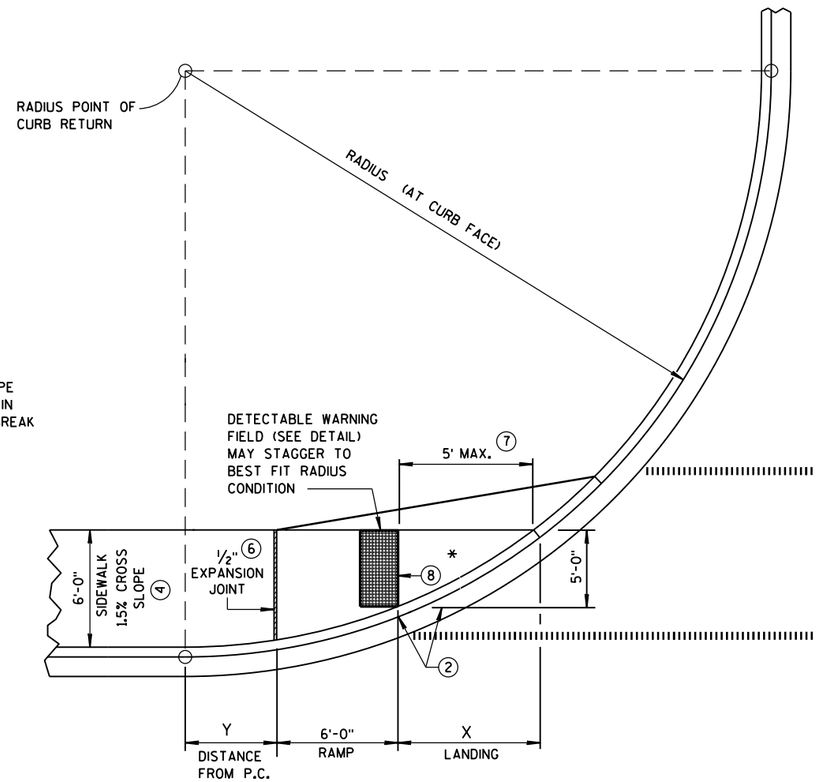


SECTION C-C FOR TYPE 4A



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 DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

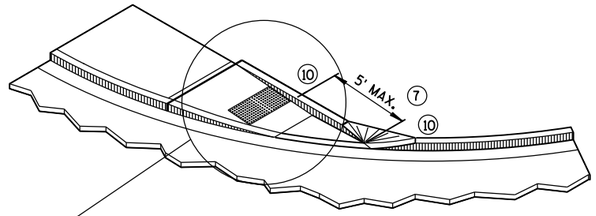
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

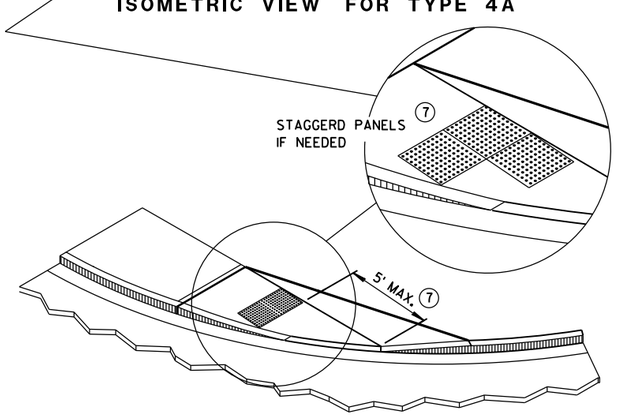
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(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

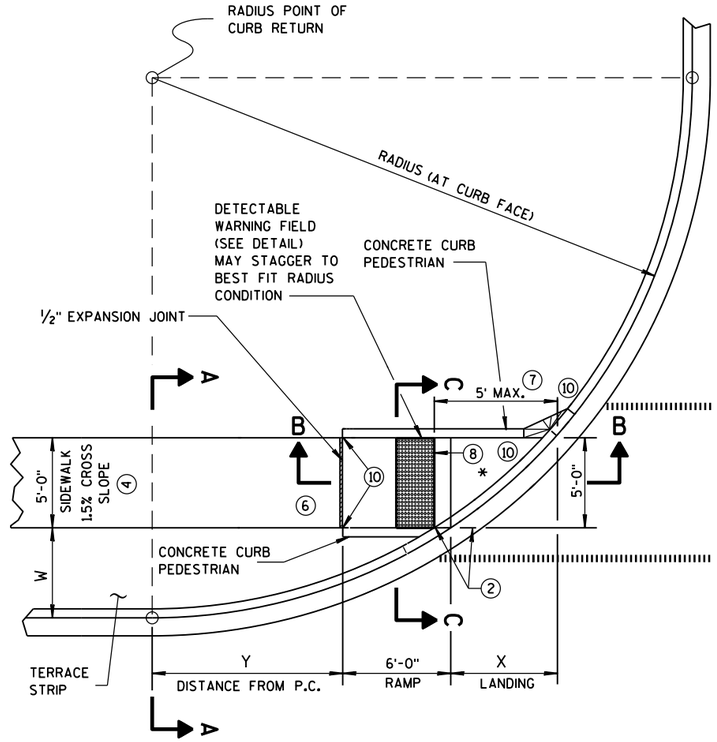
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 4A AND 4A1

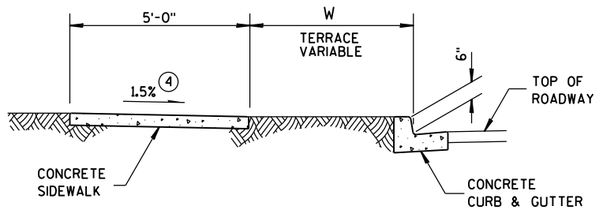
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

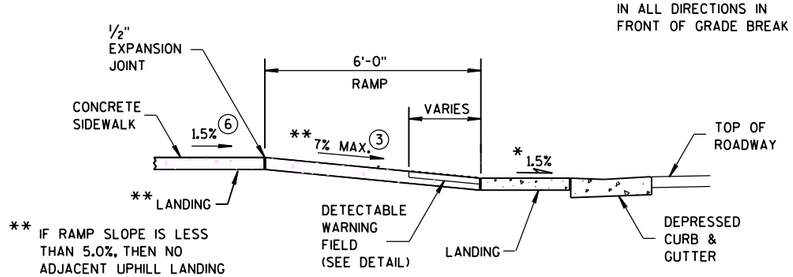
S.D.D. 8 D 5-16c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



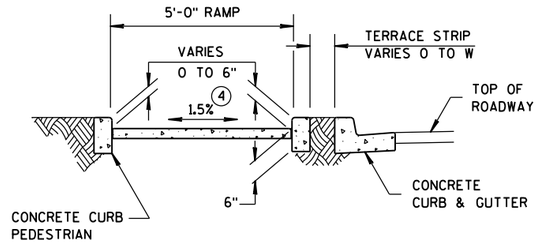
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED

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 DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

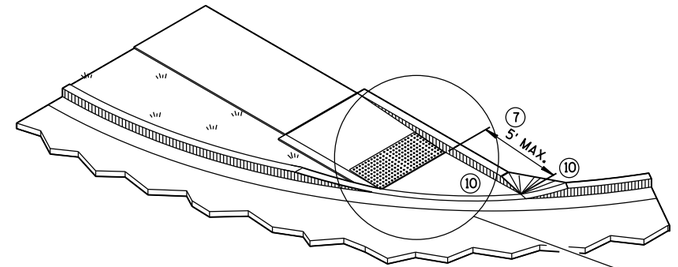
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

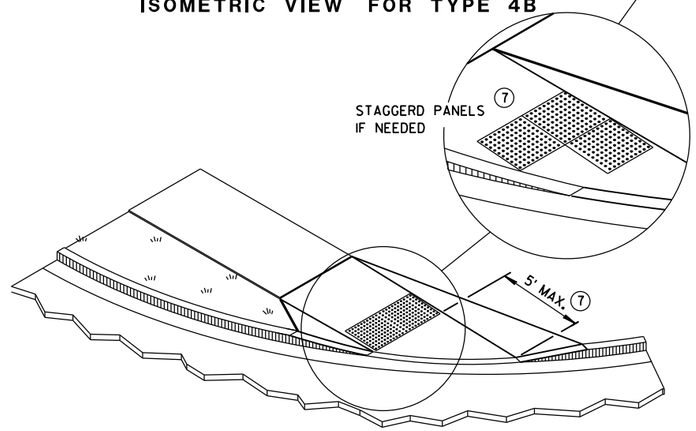
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

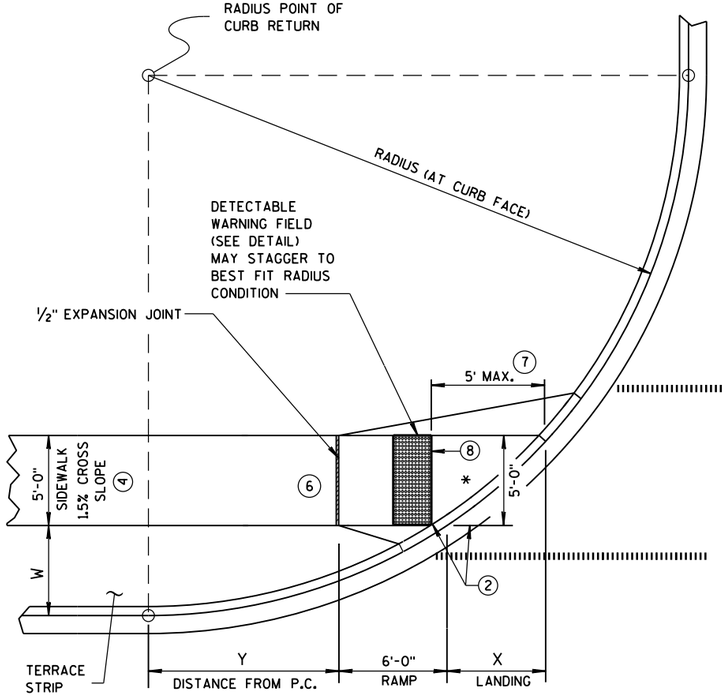
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



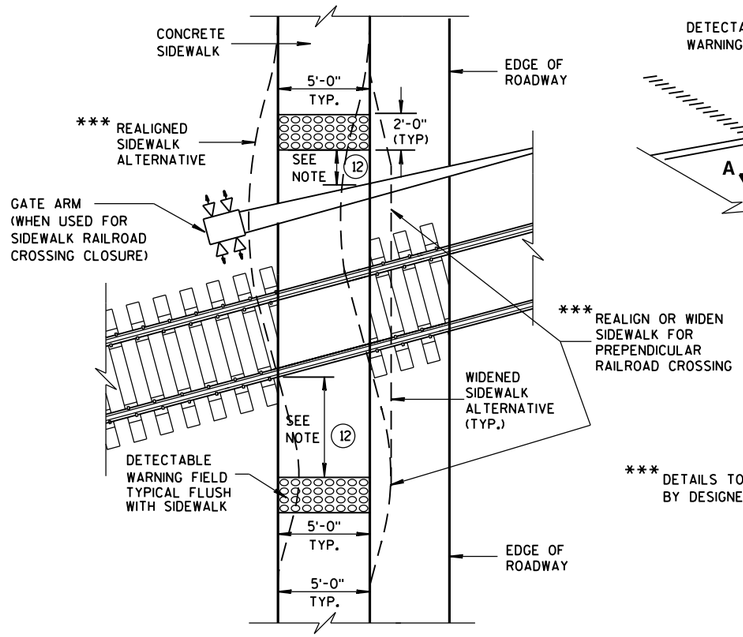
CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

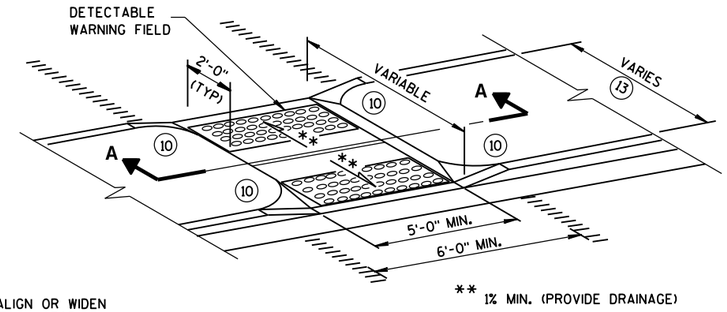
6

S.D.D. 8 D 5-16d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

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 DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(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.

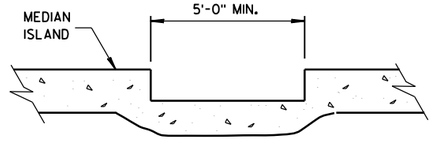
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

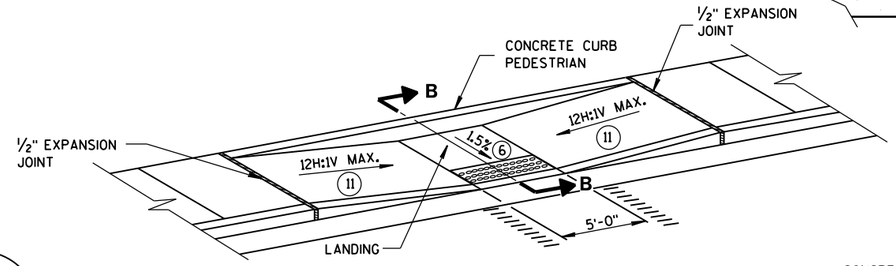
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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 IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



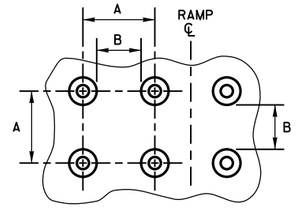
SECTION A-A



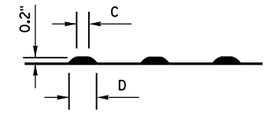
MID-BLOCK CROSSING
TYPE 7A

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

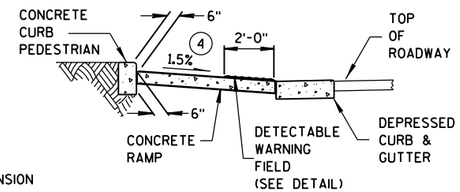


PLAN VIEW

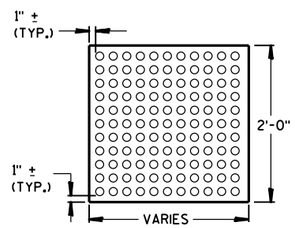


ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



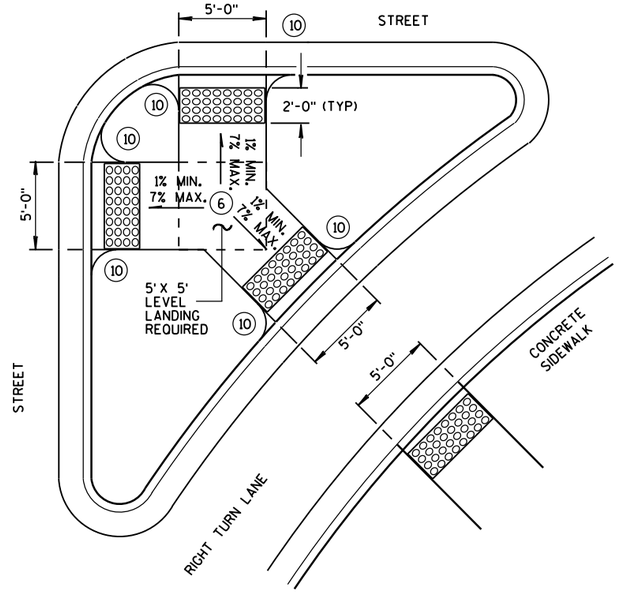
SECTION B-B



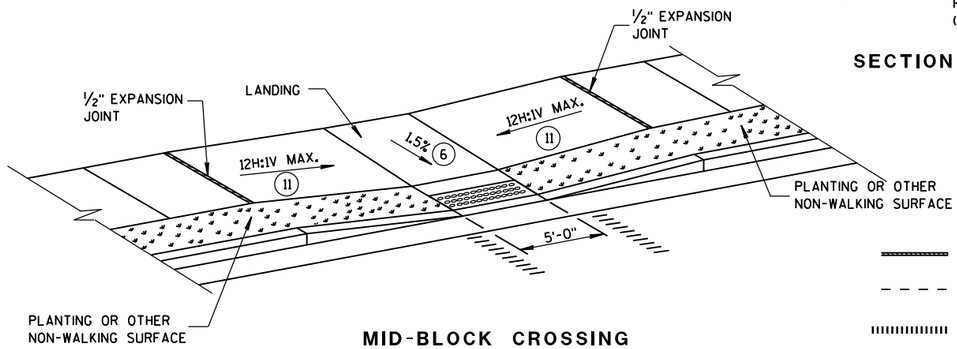
PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)

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

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

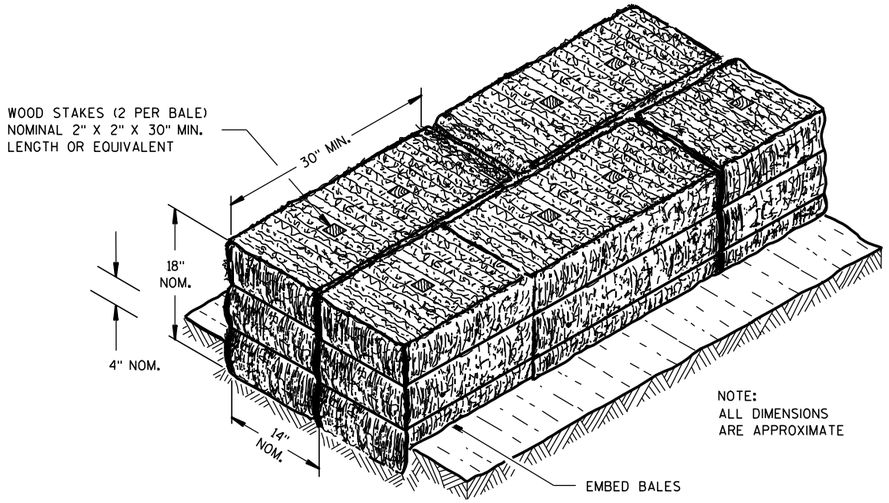
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

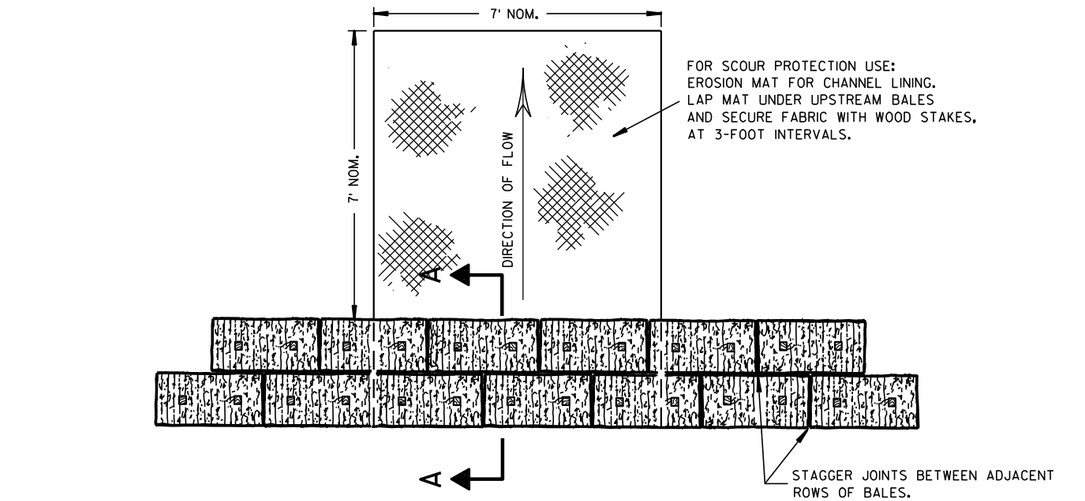
APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

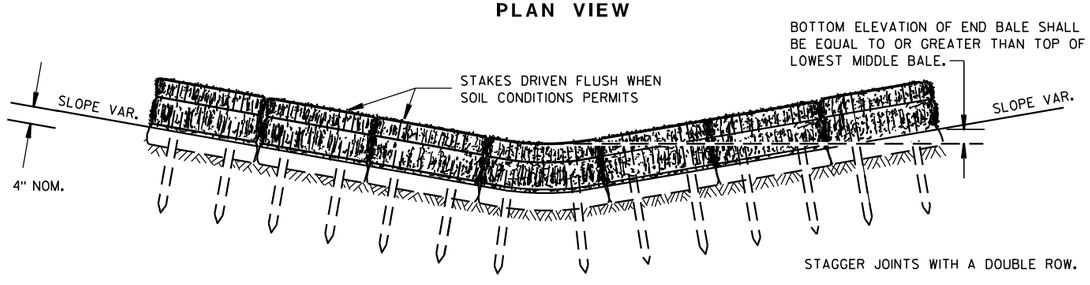
S.D.D. 8 D 5-16e



SECTION A-A



PLAN VIEW



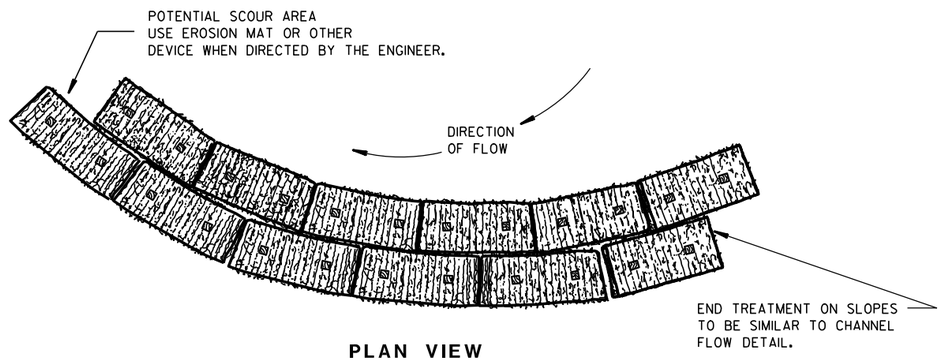
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

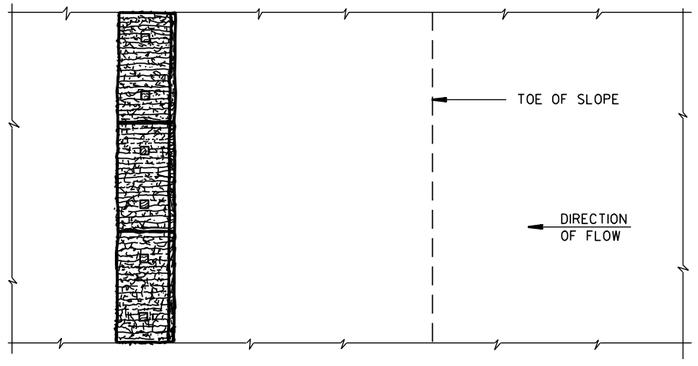
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

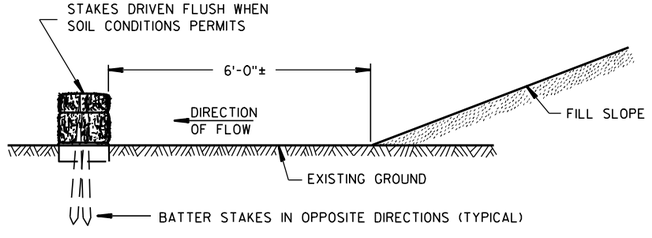


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

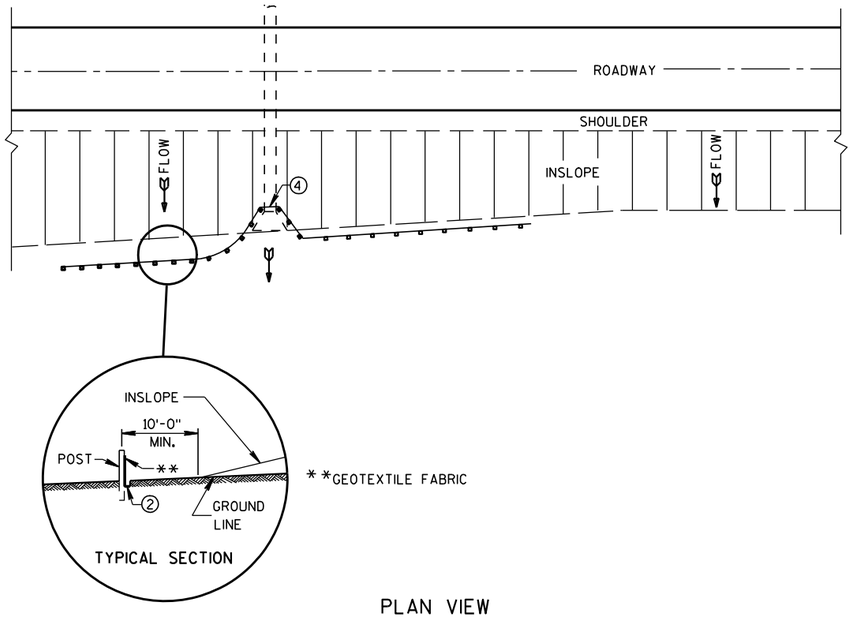
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

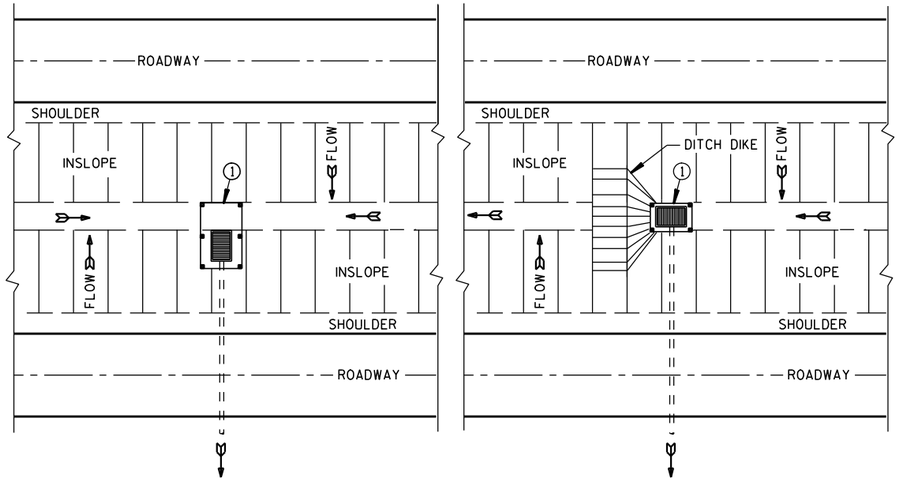
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



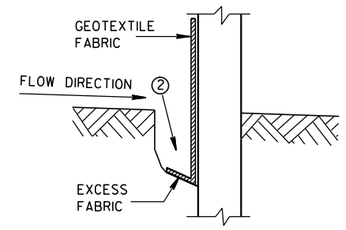
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

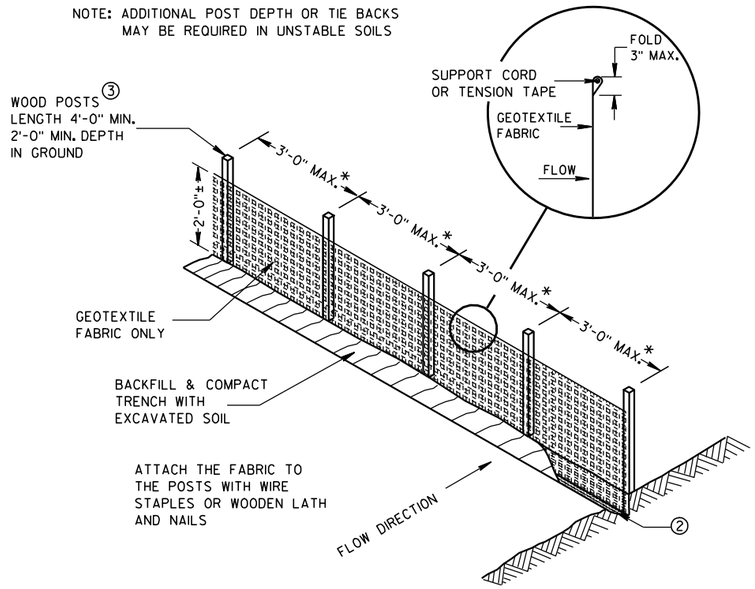
GENERAL NOTES

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.

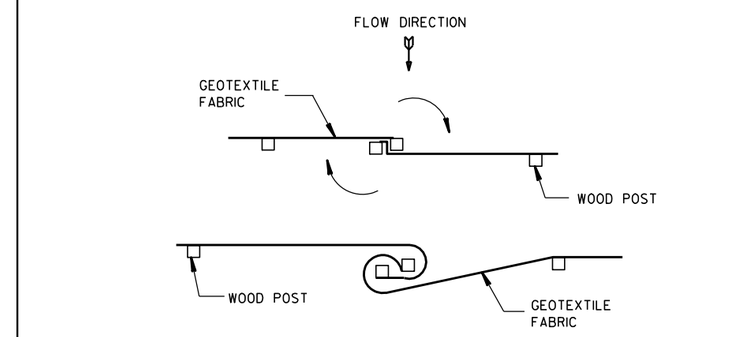


TRENCH DETAIL

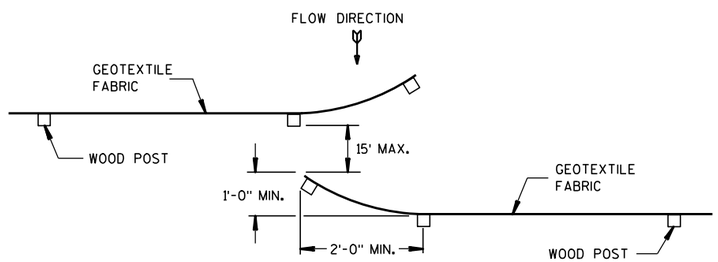


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

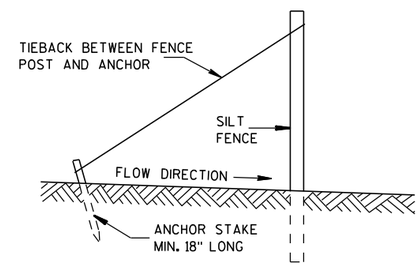


TWIST METHOD



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

6

S.D.D. 8 E 9-6

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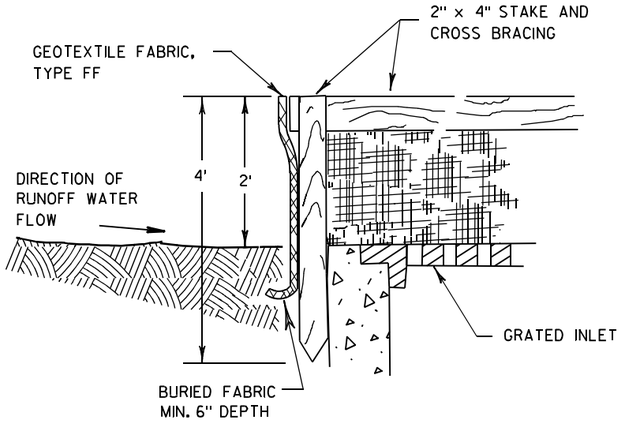
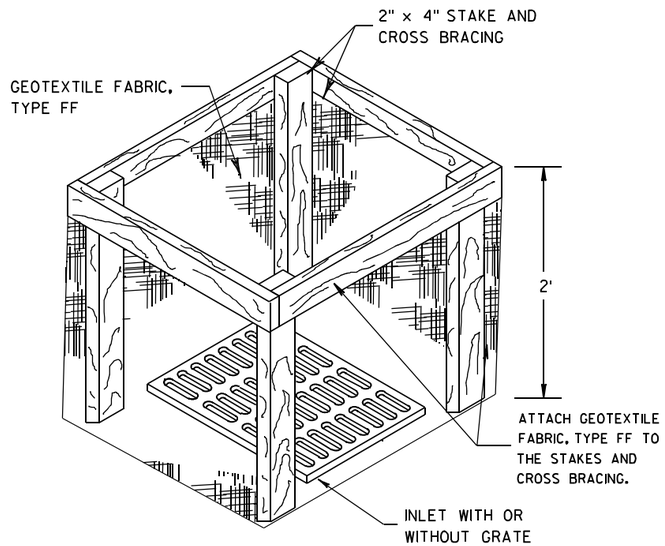
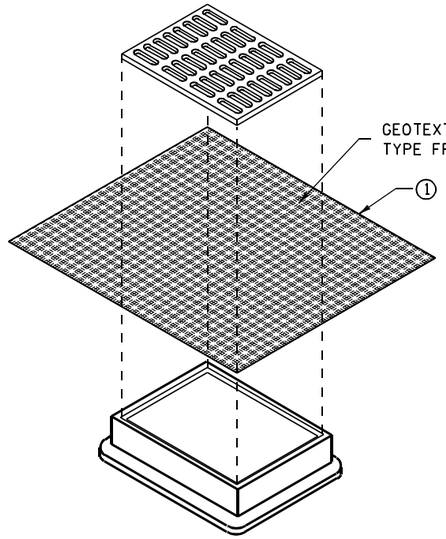
S.D.D. 8 E 9-6



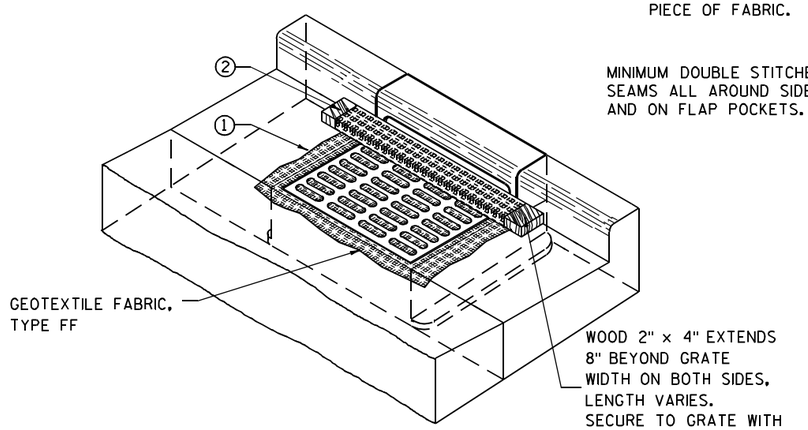


INLET PROTECTION, TYPE A

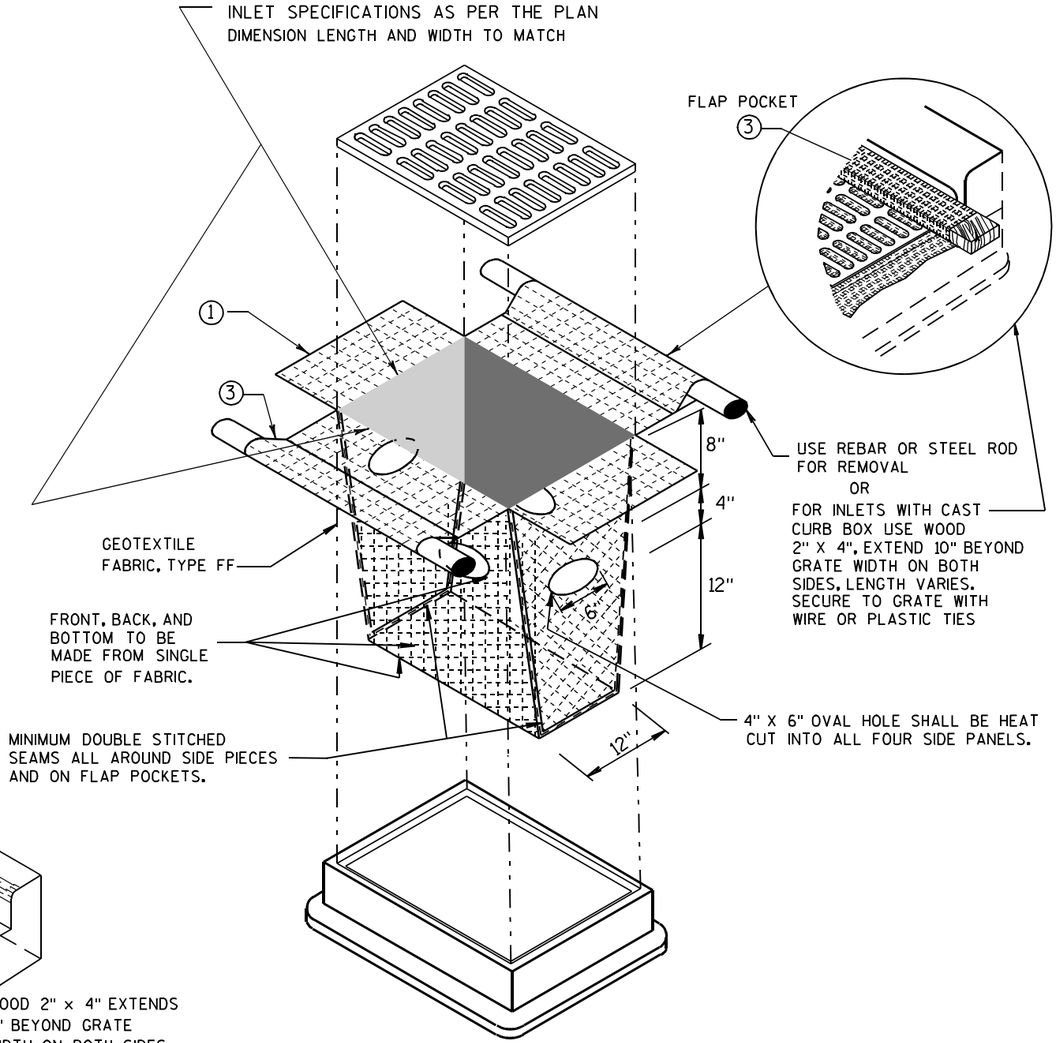


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

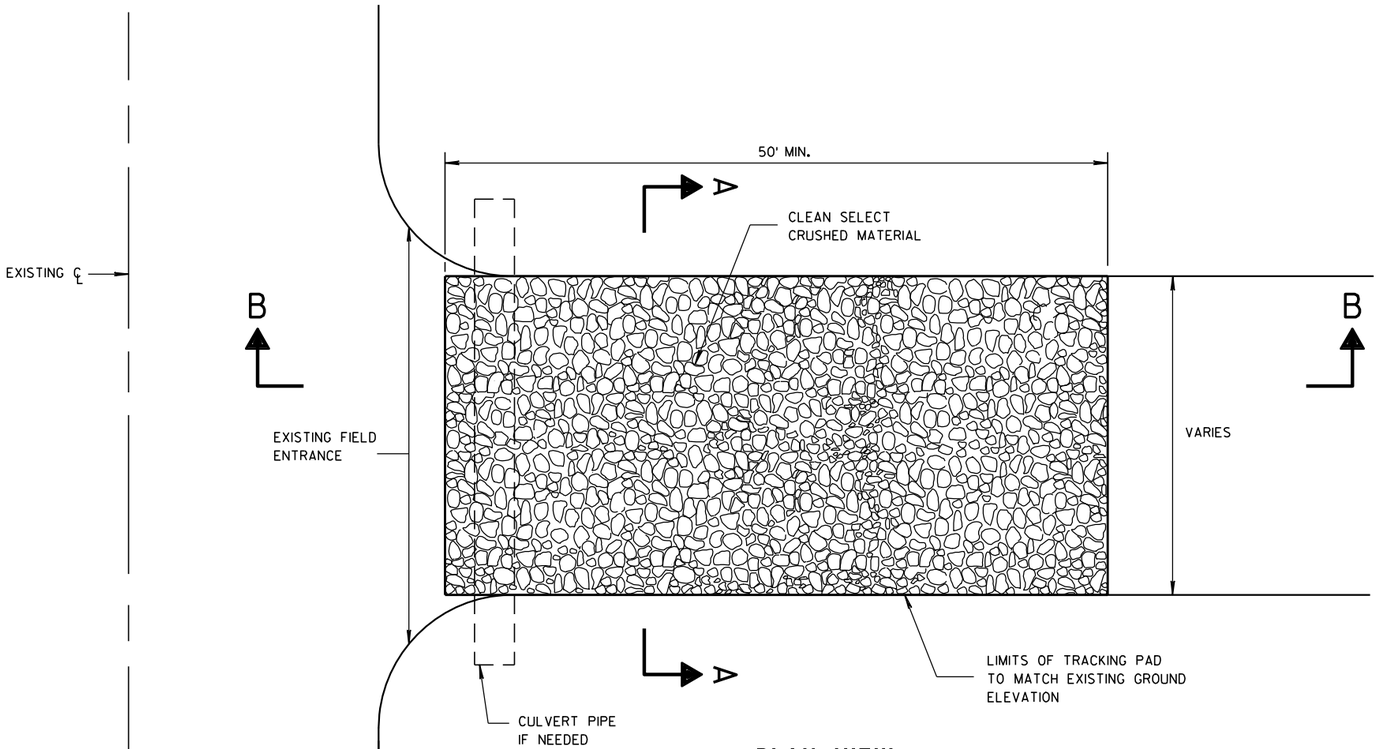
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

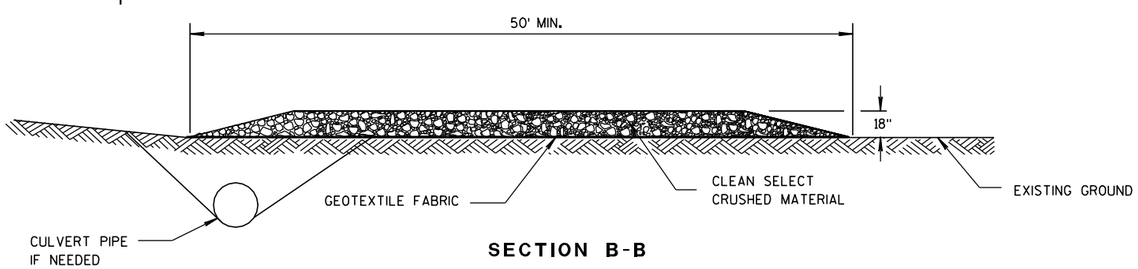
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

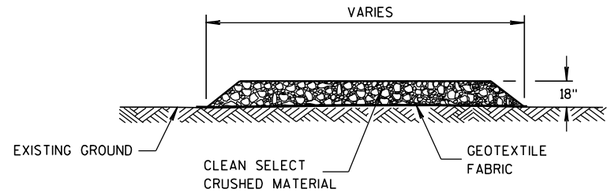
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

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S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011	/S/ Jerry H. Zoda	
DATE	ROADWAY STANDARDS ENGINEER	ENT

FHWA

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

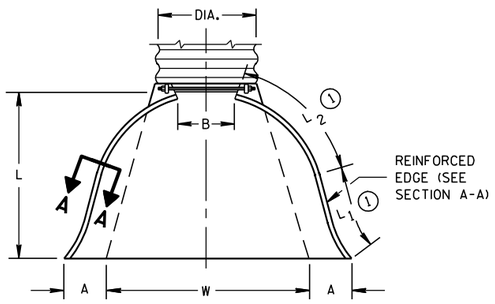
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

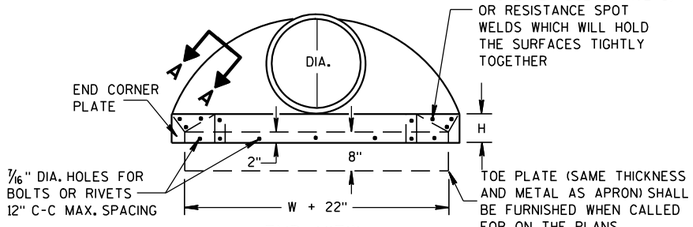
REINFORCED CONCRETE APRON ENDWALLS

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

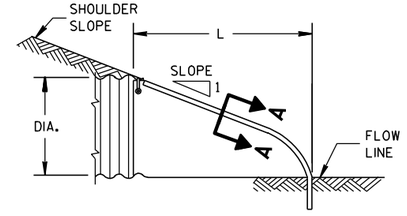
*MINIMUM
**MAXIMUM



PLAN VIEW

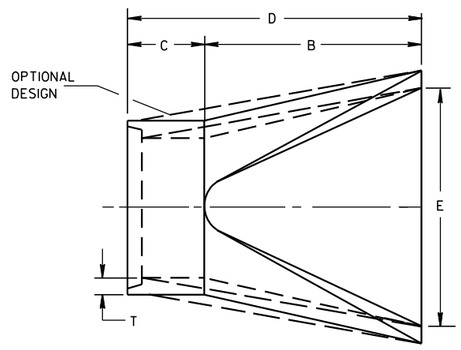


END VIEW

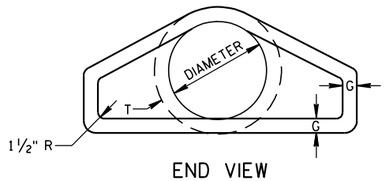


SIDE ELEVATION

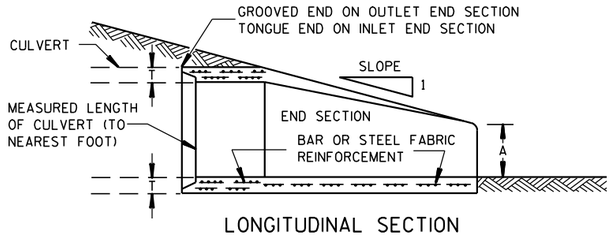
METAL ENDWALLS



PLAN

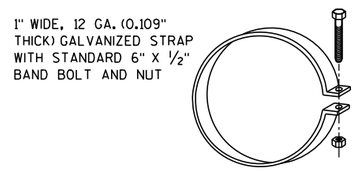


END VIEW



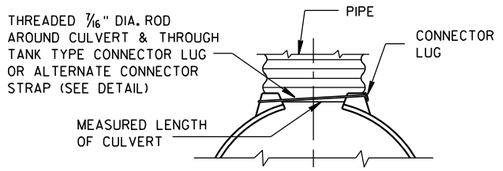
LONGITUDINAL SECTION

CONCRETE ENDWALLS

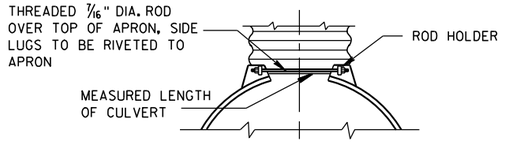


ALTERNATE FOR TYPE 1 CONNECTION

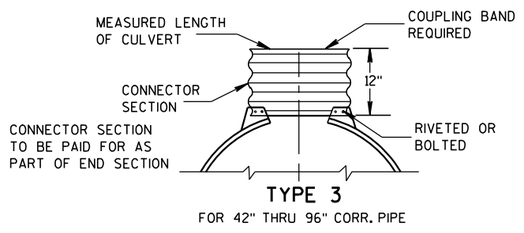
END SECTION CONNECTOR STRAP



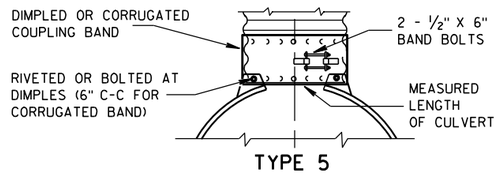
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

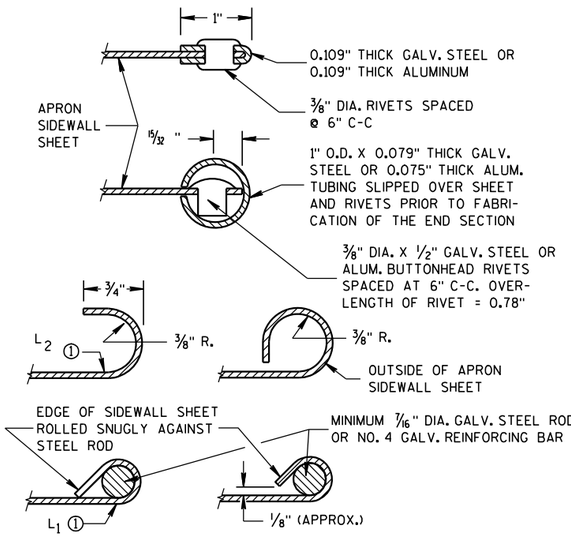
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

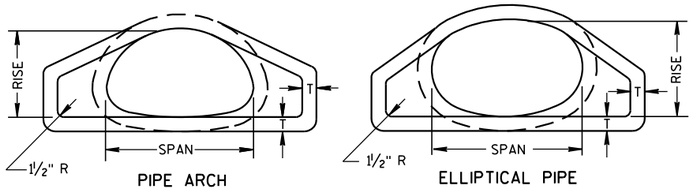
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

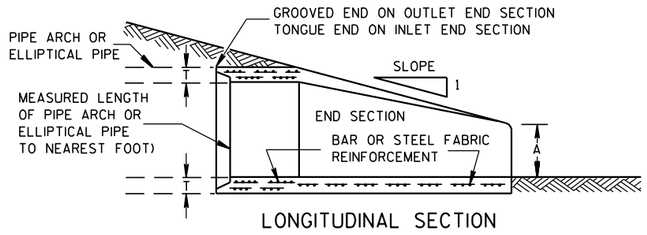
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

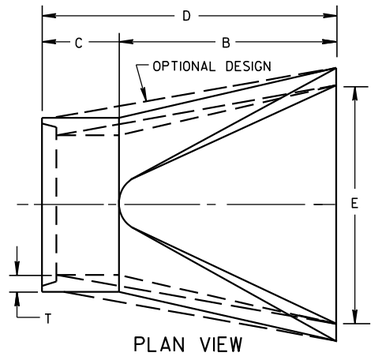
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



END VIEW

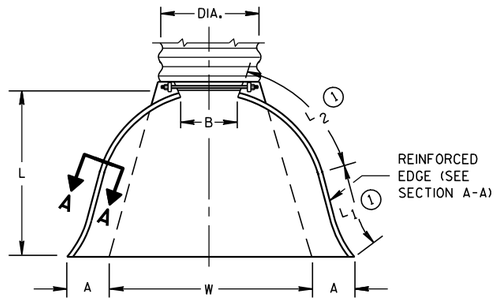


LONGITUDINAL SECTION

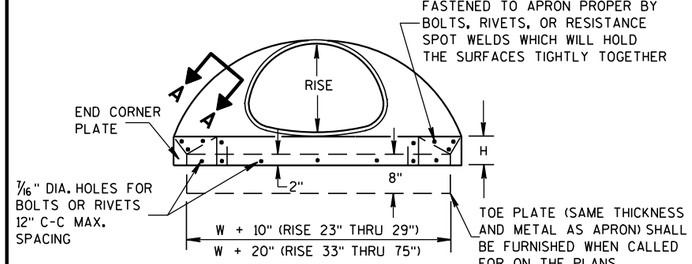


PLAN VIEW

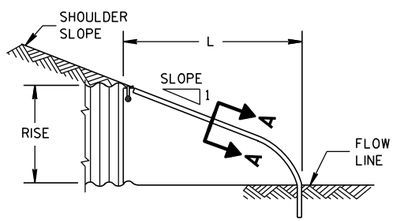
CONCRETE ENDWALLS



PLAN VIEW

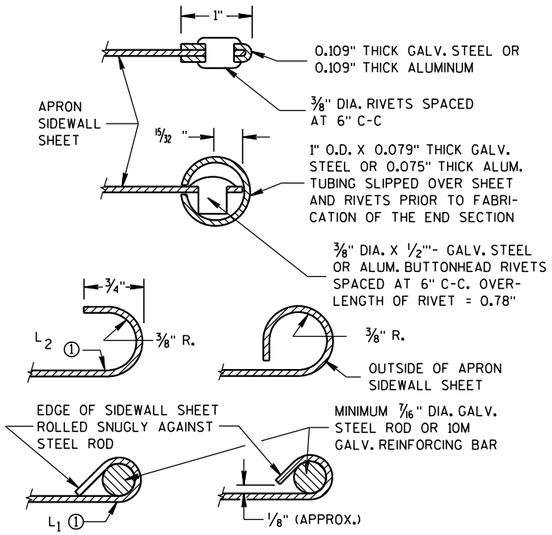


END VIEW



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

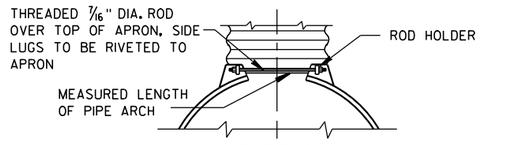
REINFORCED CONCRETE PIPE ARCH

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

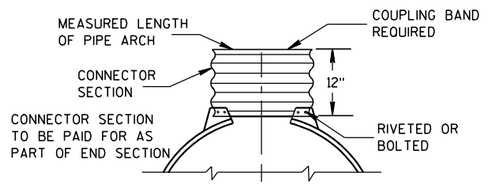
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



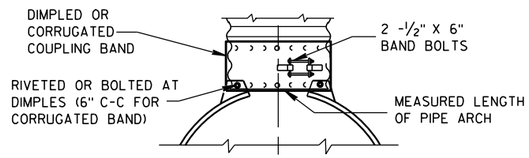
TYPE 2

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

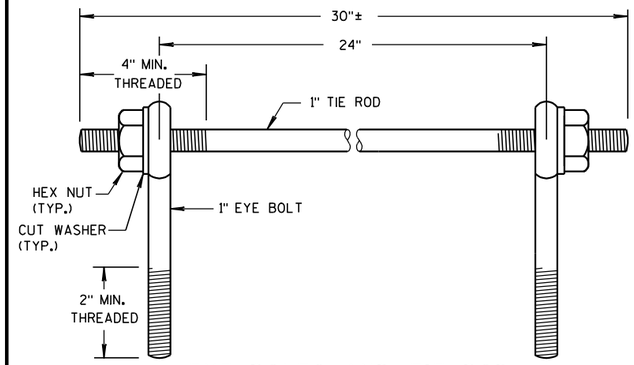
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

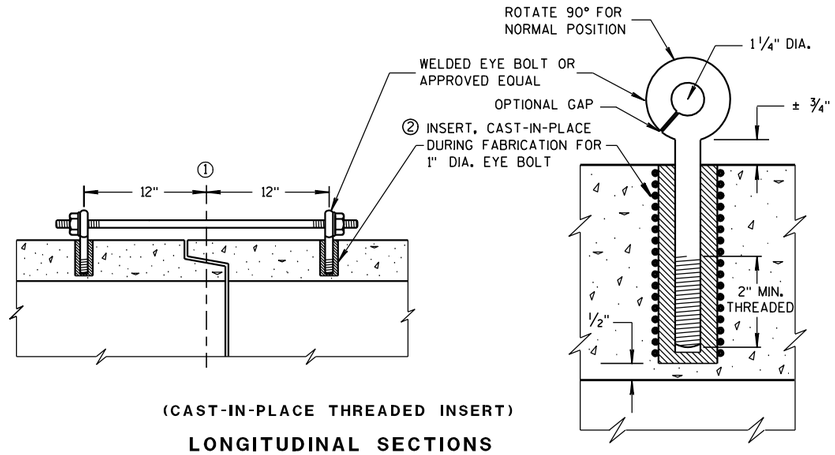
FHWA

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.

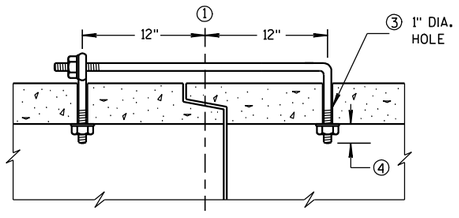
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

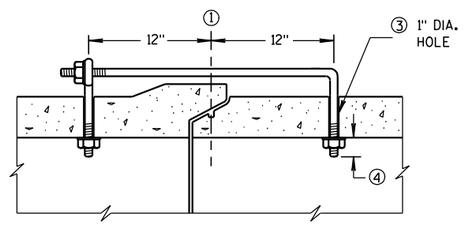
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

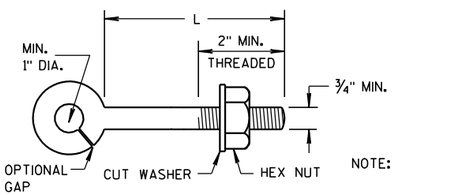


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

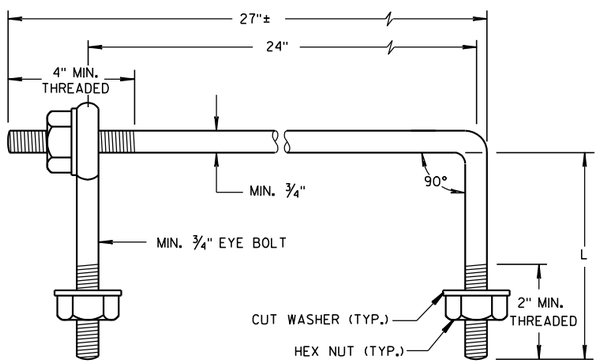
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

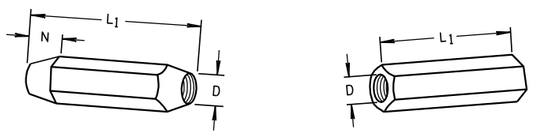
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

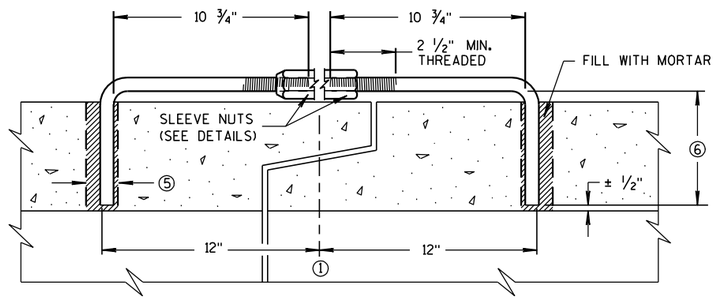
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

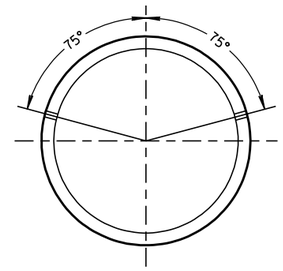
SLEEVE NUTS



LONGITUDINAL SECTION

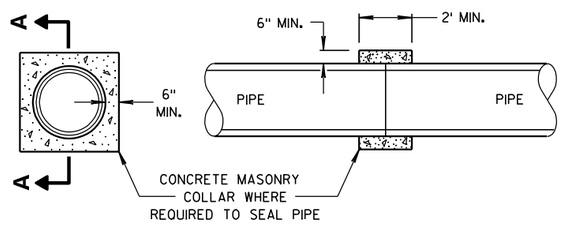
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
300 — 'MENT
FHWA

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S.D.D. 8 F 4-7

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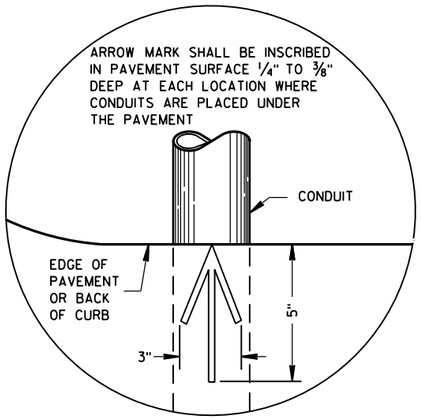
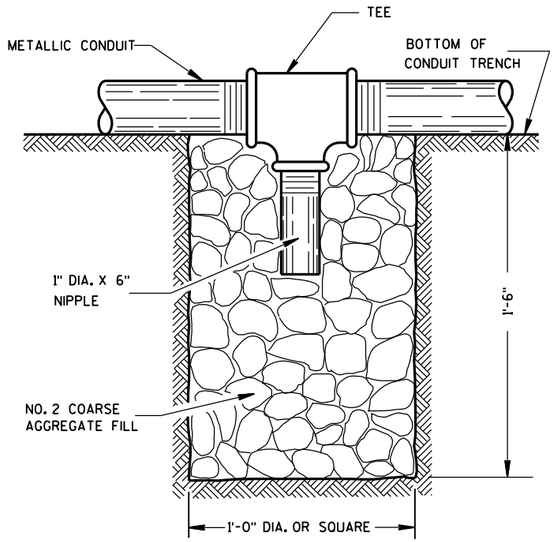
S.D.D. 8 F 4-7



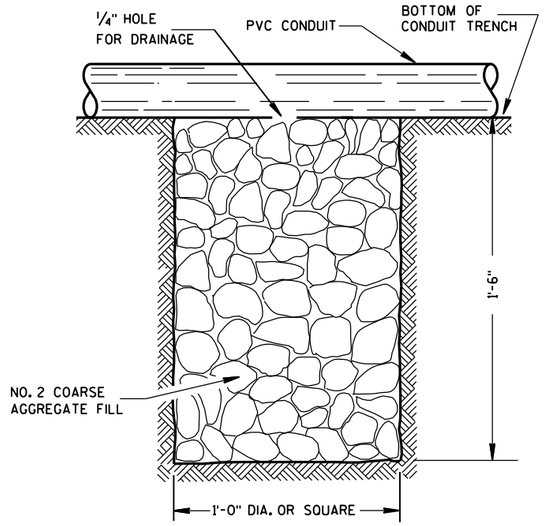
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

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.

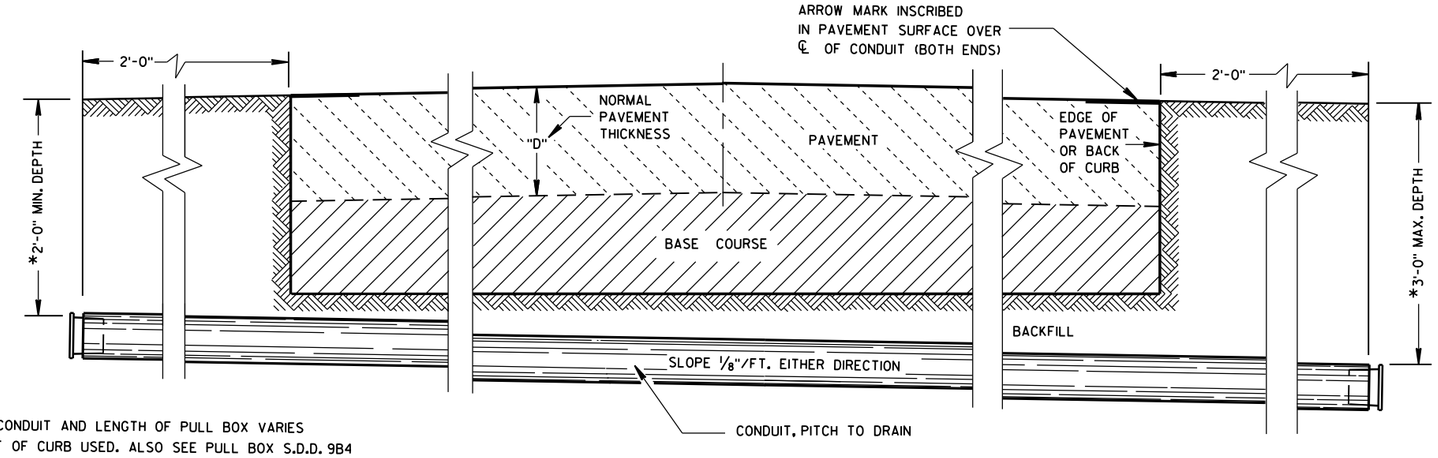
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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.



*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

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

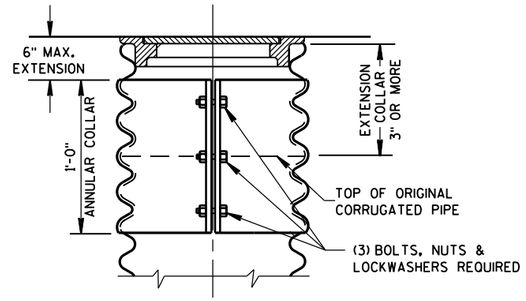
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

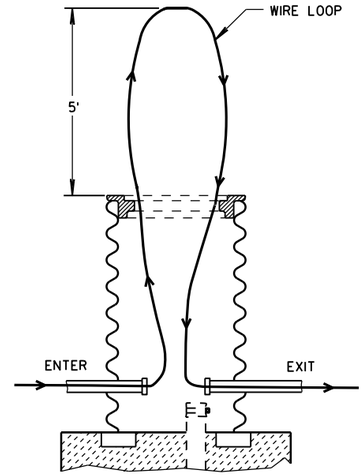
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

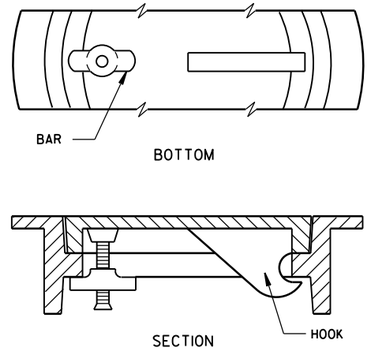
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

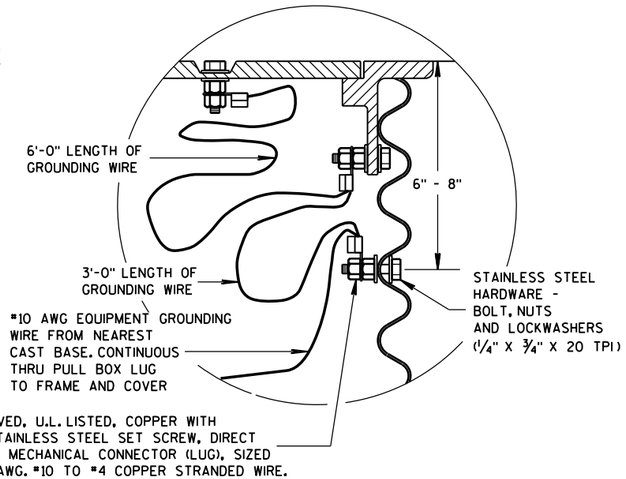


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

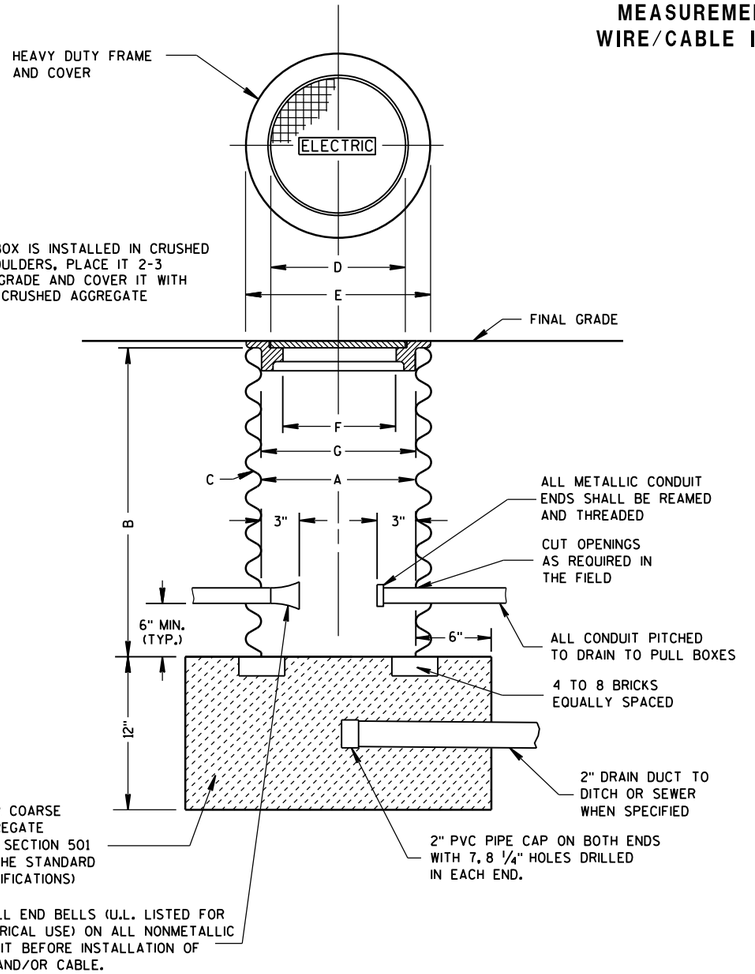


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

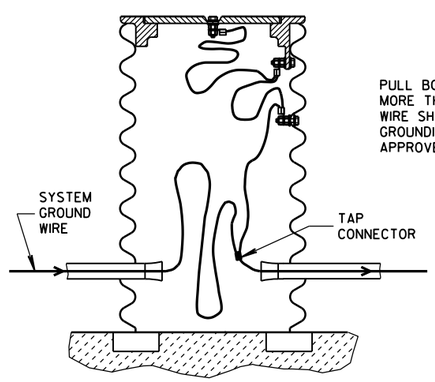
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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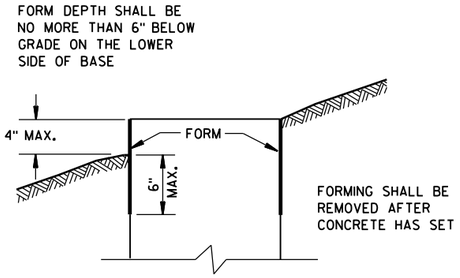
S.D.D. 9 B 4-11



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

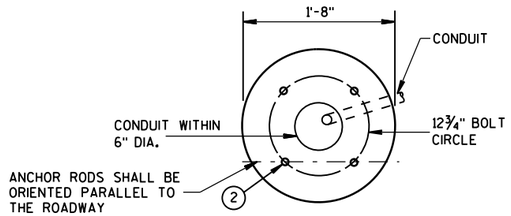
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

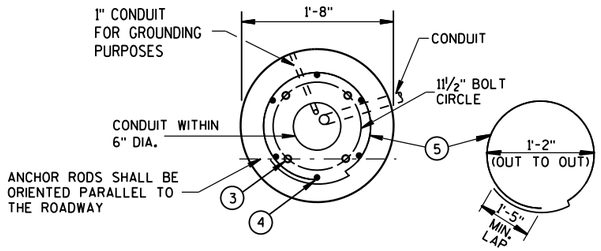
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

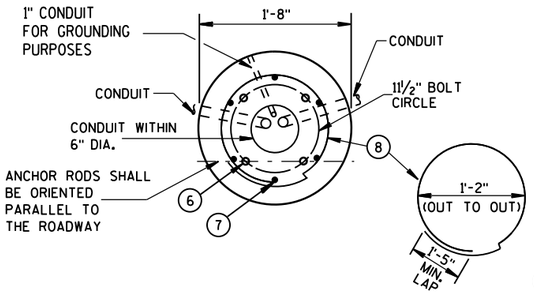
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

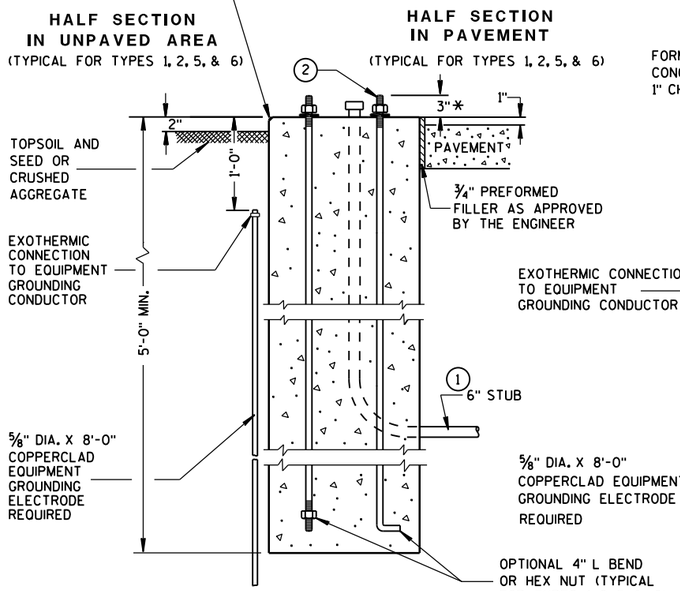






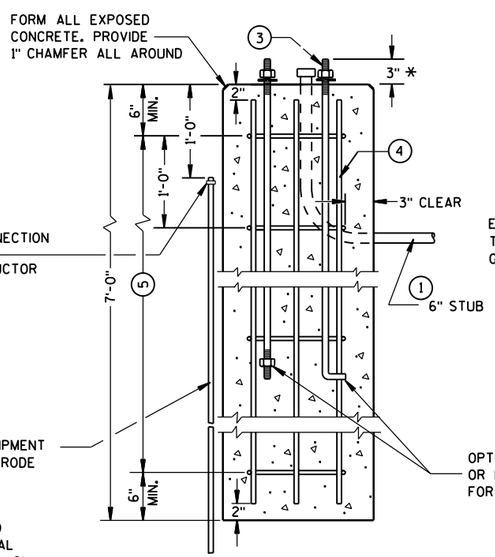
HALF SECTION IN UNPAVED AREA

(TYPICAL FOR TYPES 1, 2, 5, & 6)

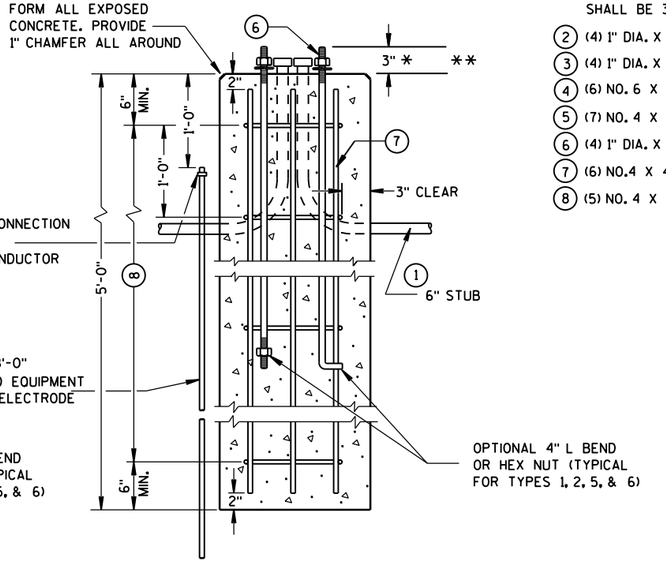


HALF SECTION IN PAVEMENT

(TYPICAL FOR TYPES 1, 2, 5, & 6)



TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 2-7

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

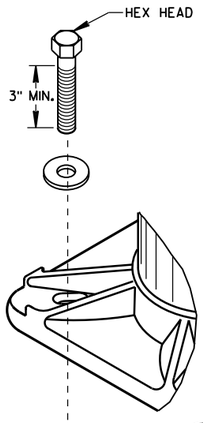
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

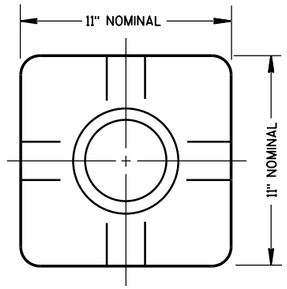
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

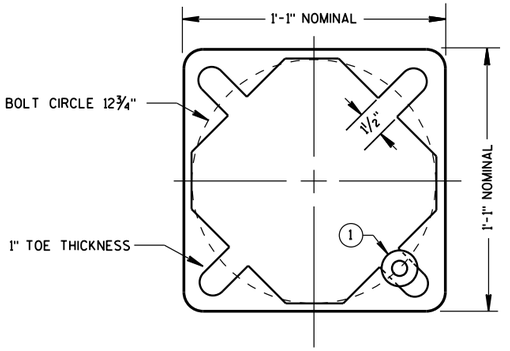
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

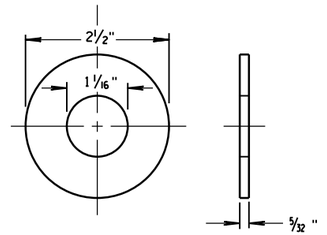




TOP VIEW
(PEDESTAL BASE)

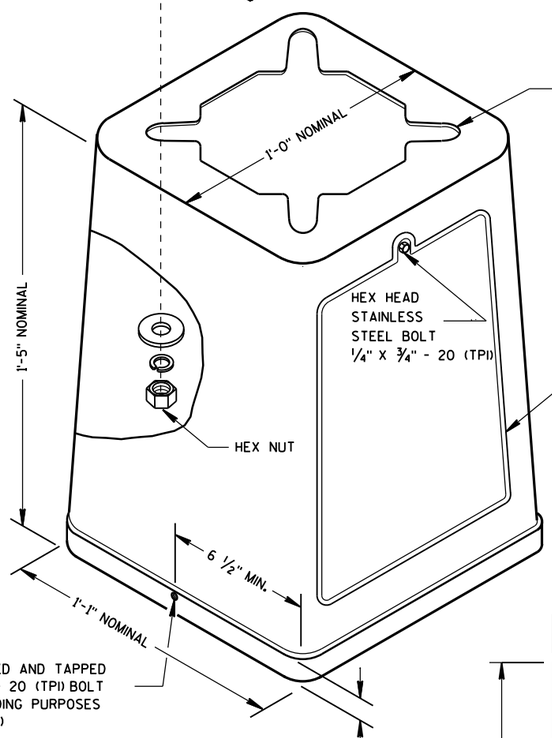


BOTTOM VIEW
(PEDESTAL BASE)

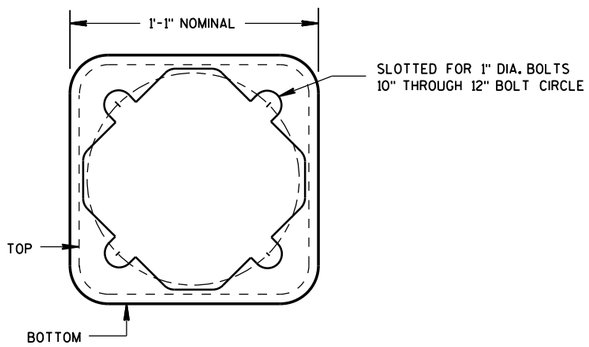


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

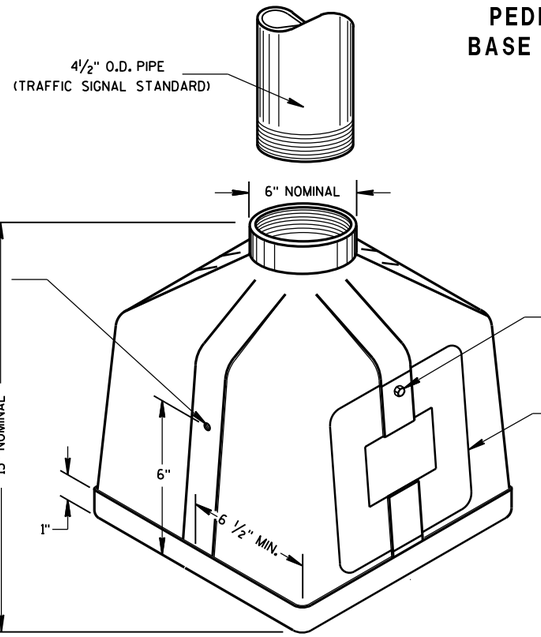
PEDESTAL BASE WASHER (1)



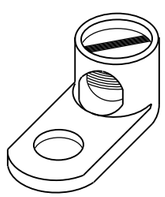
ISOMETRIC VIEW



BOTTOM VIEW
(TRANSFORMER BASE)

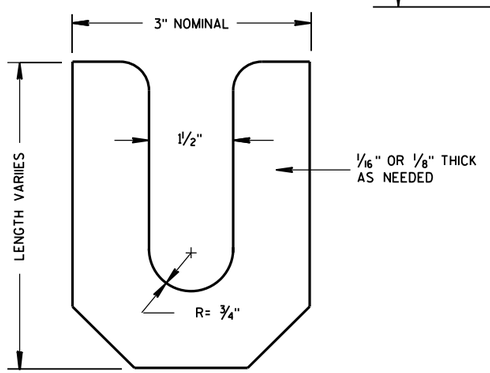


ISOMETRIC VIEW
PEDESTAL BASE



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 3-4

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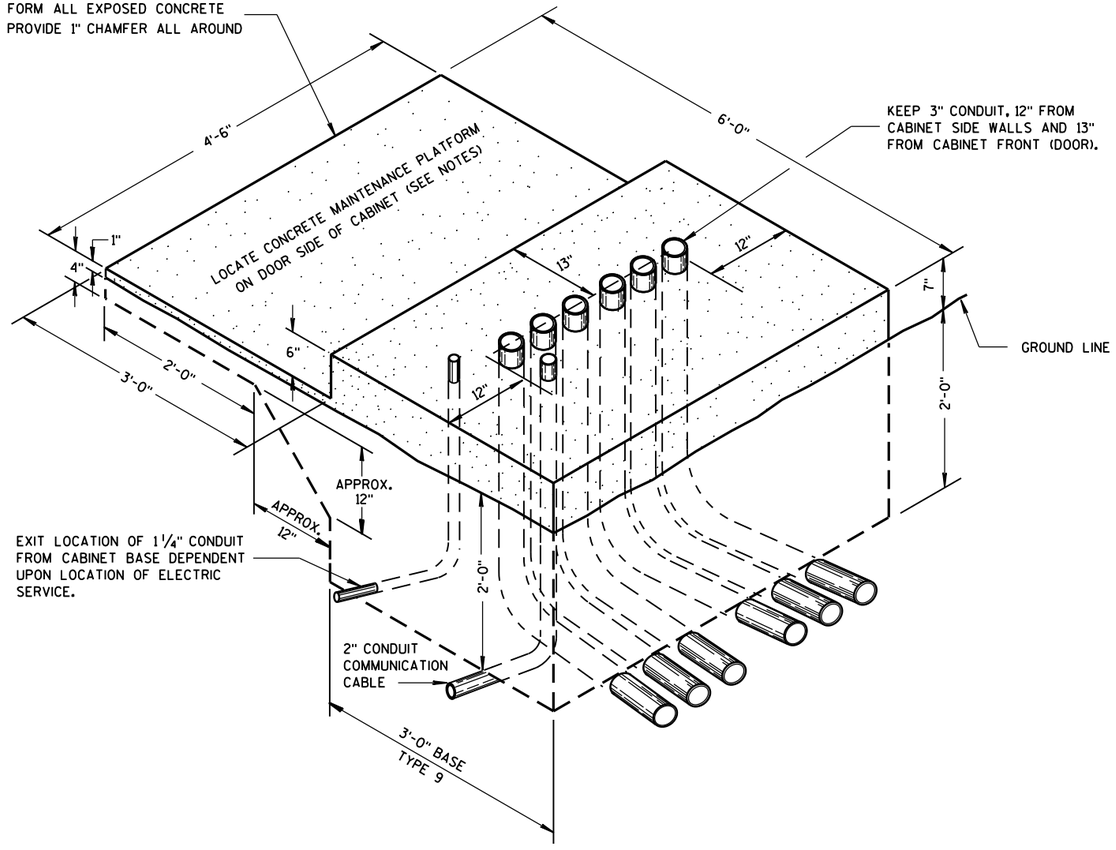
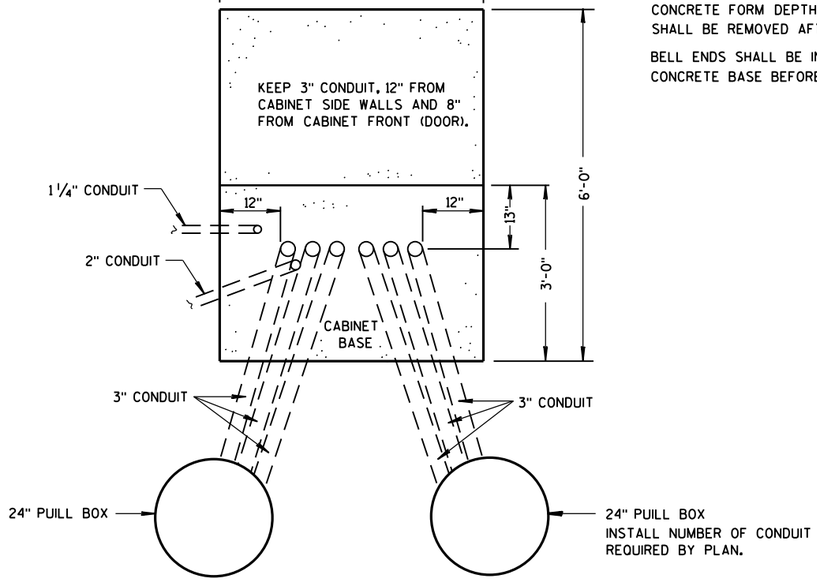
S.D.D. 9 C 3-4



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

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.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
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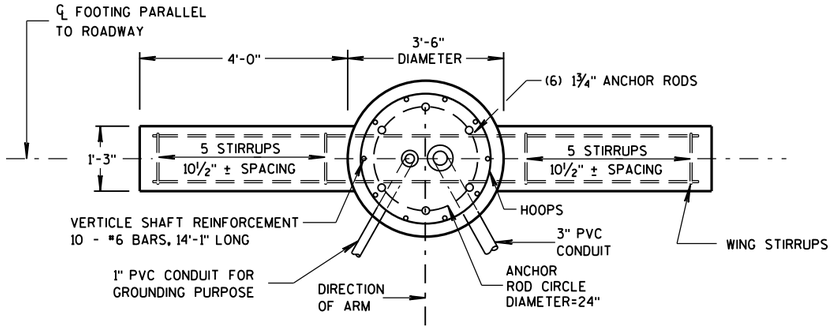
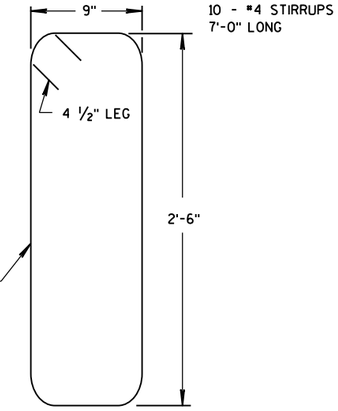
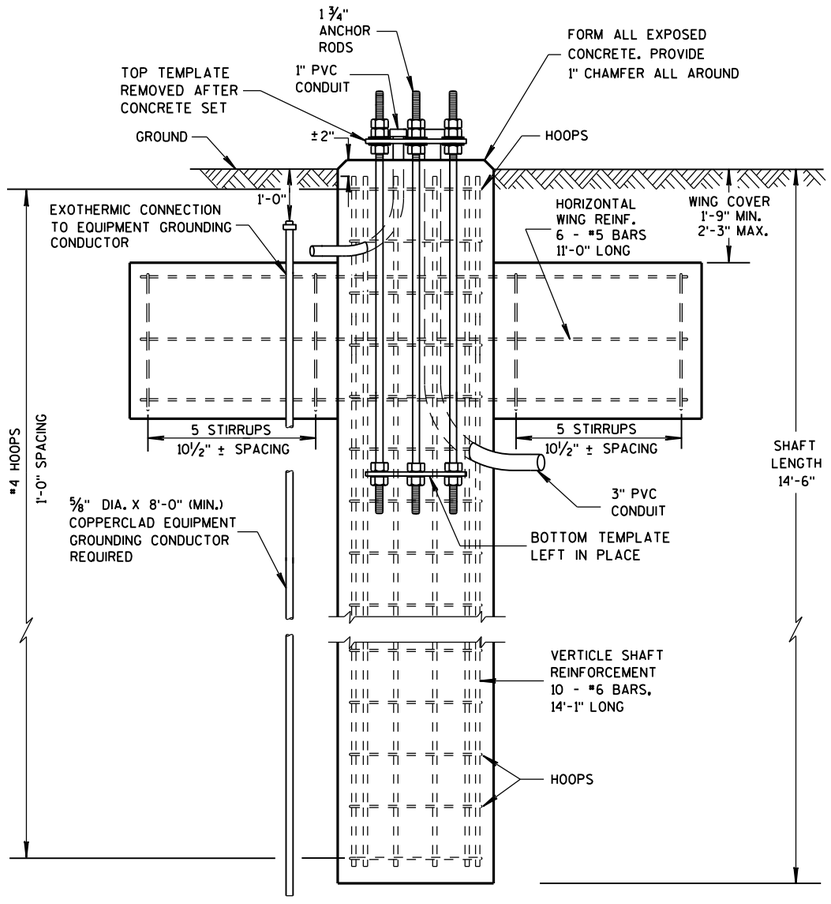
FHWA



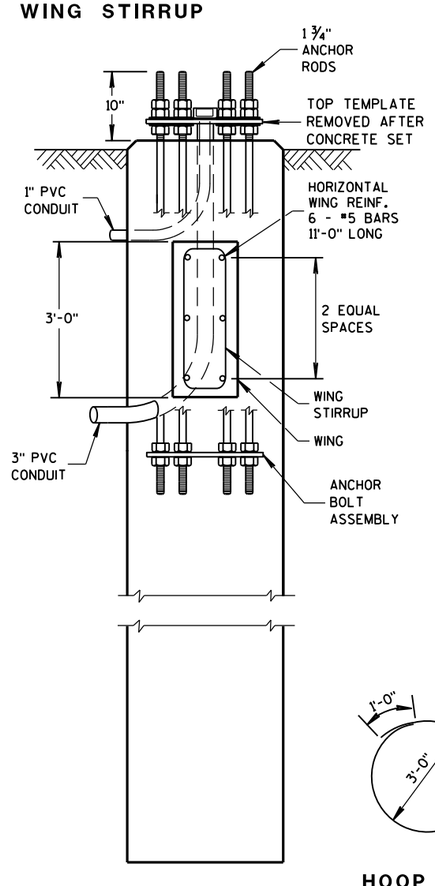
PLAN VIEW



WING STIRRUP

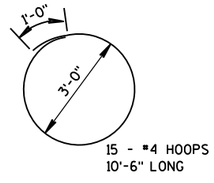


ELEVATION VIEW



SIDE VIEW

DOES NOT SHOW HOOPS OR VERTICAL SHAFT REINFORCEMENT



15 - #4 HOOPS 10'-6" LONG

HOOP DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4-FOOT COIL OF WIRE ABOVE THE CONCRETE BASE, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL WAY SHALL BE 24-INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36-INCHES, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, AASHTO M314 GRADE 55	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 POLES)

CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 433 LBS.

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.
SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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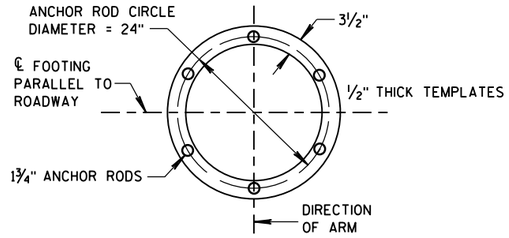
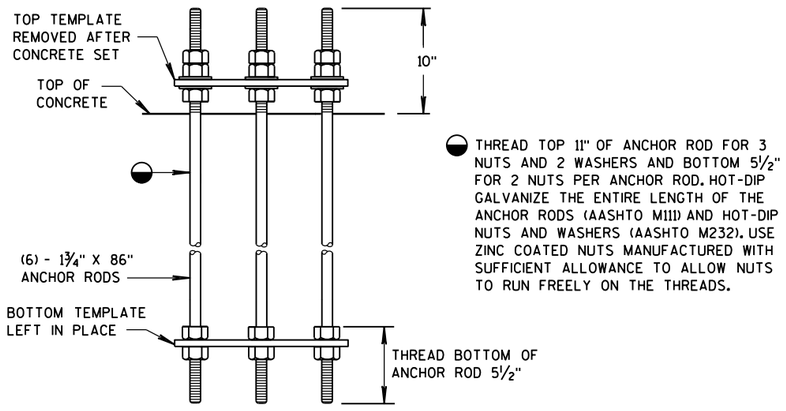
S.D.D. 9 C 12-7a

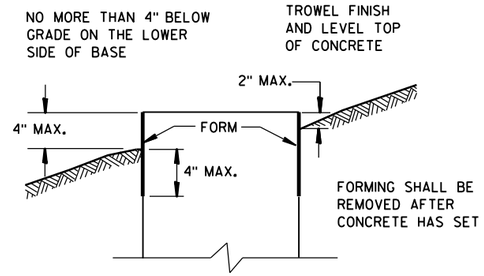


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

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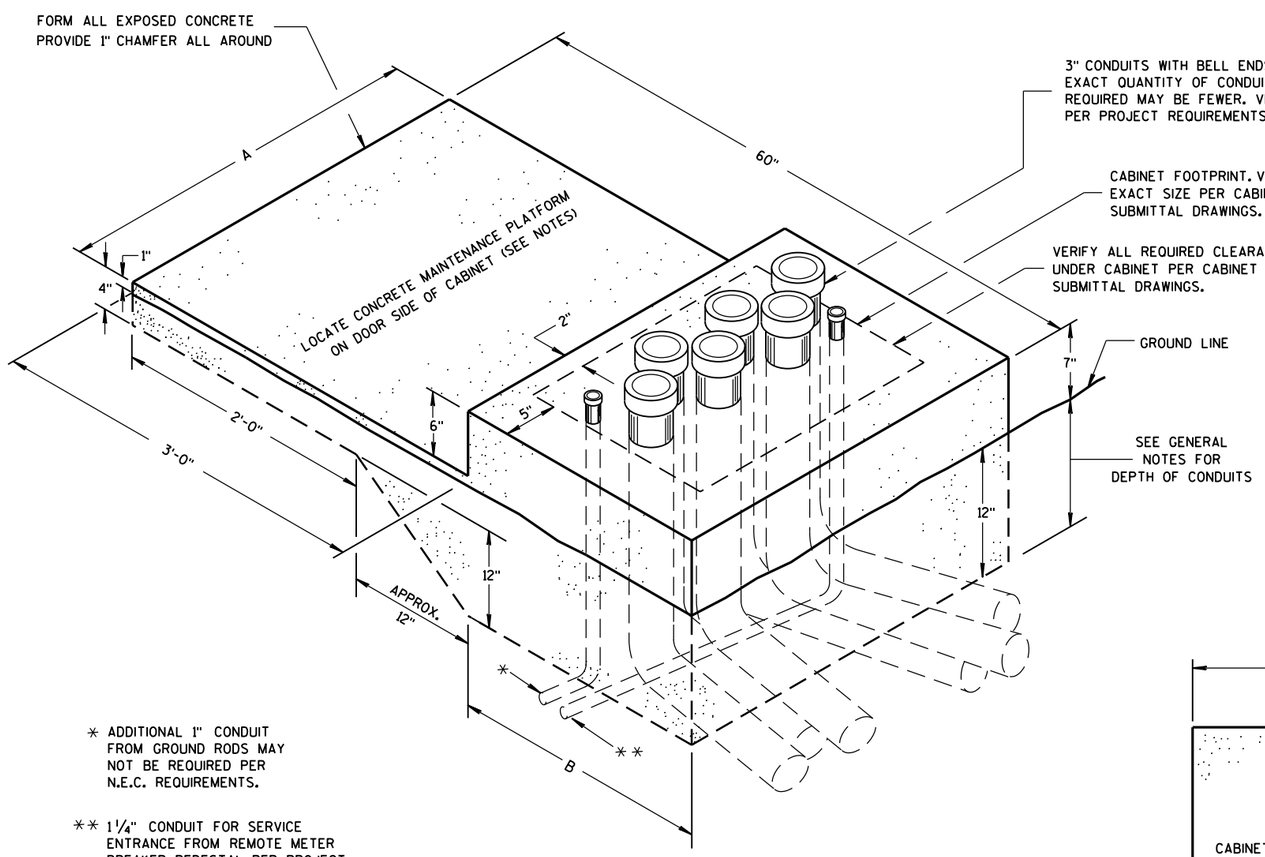
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

S.D.D. 9 C 12-7b



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

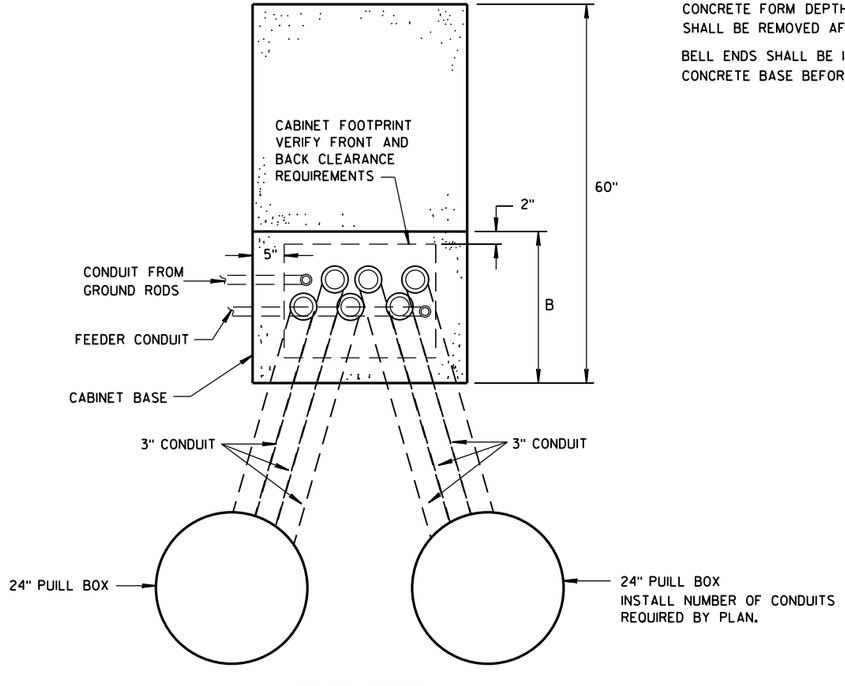
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

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.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014
DATE
/S/ Thomas Gonring
STATE LIGHTING ENGINE
FHWA

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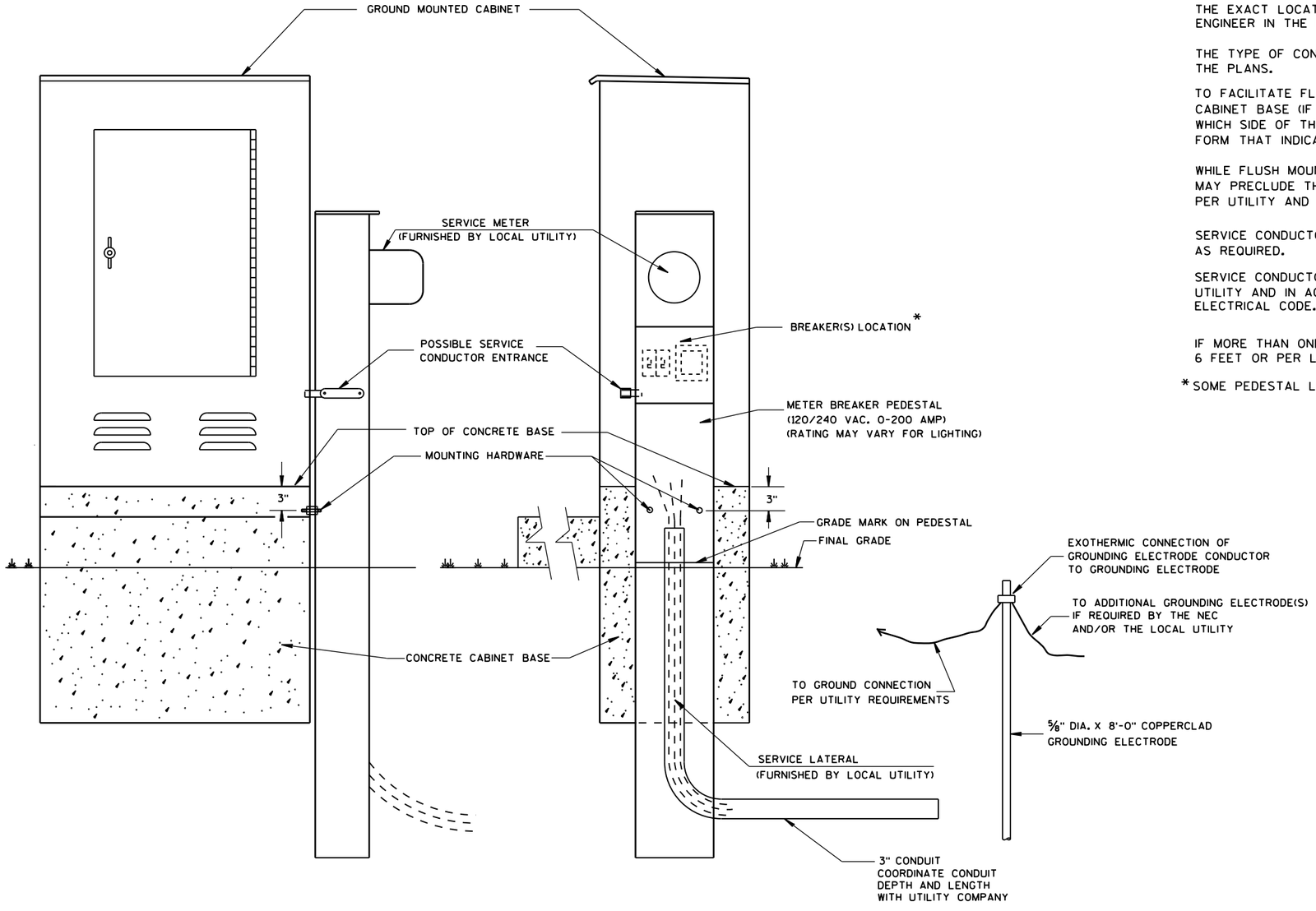
S.D.D. 9 C 14-2



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 D 1-5

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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

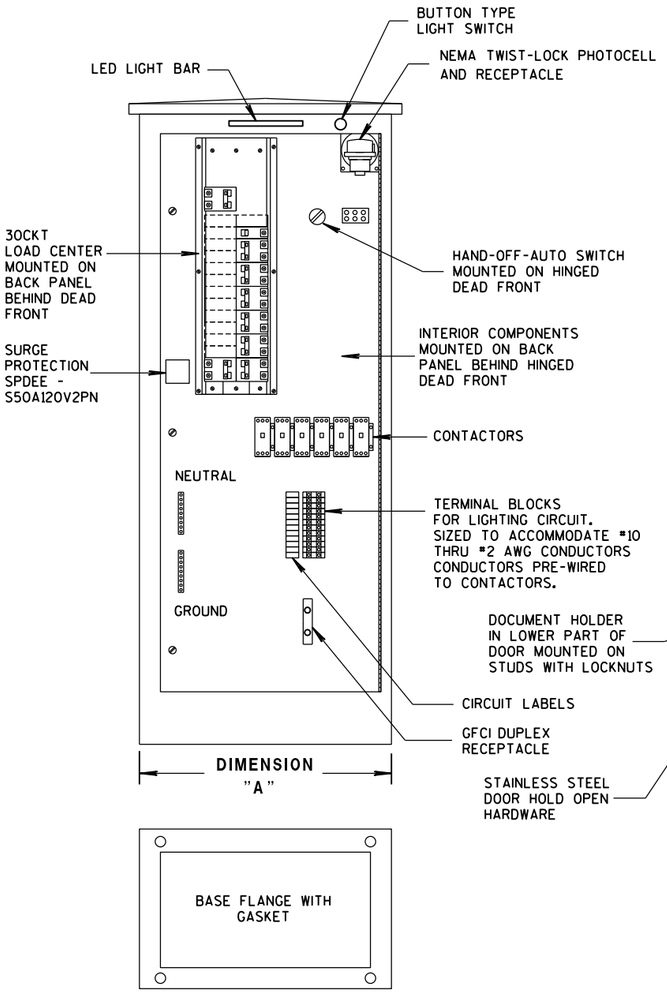
ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

FRONT INTERIOR ELEVATION



SIDE VIEW

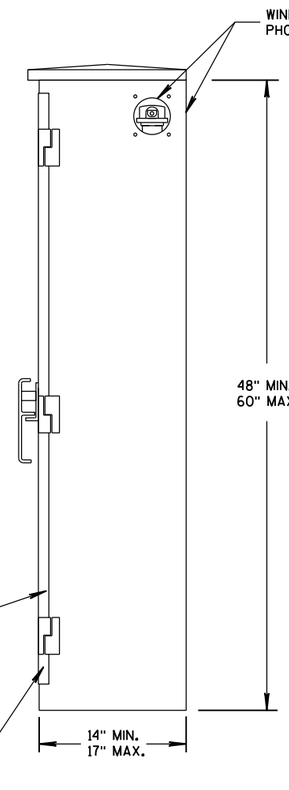
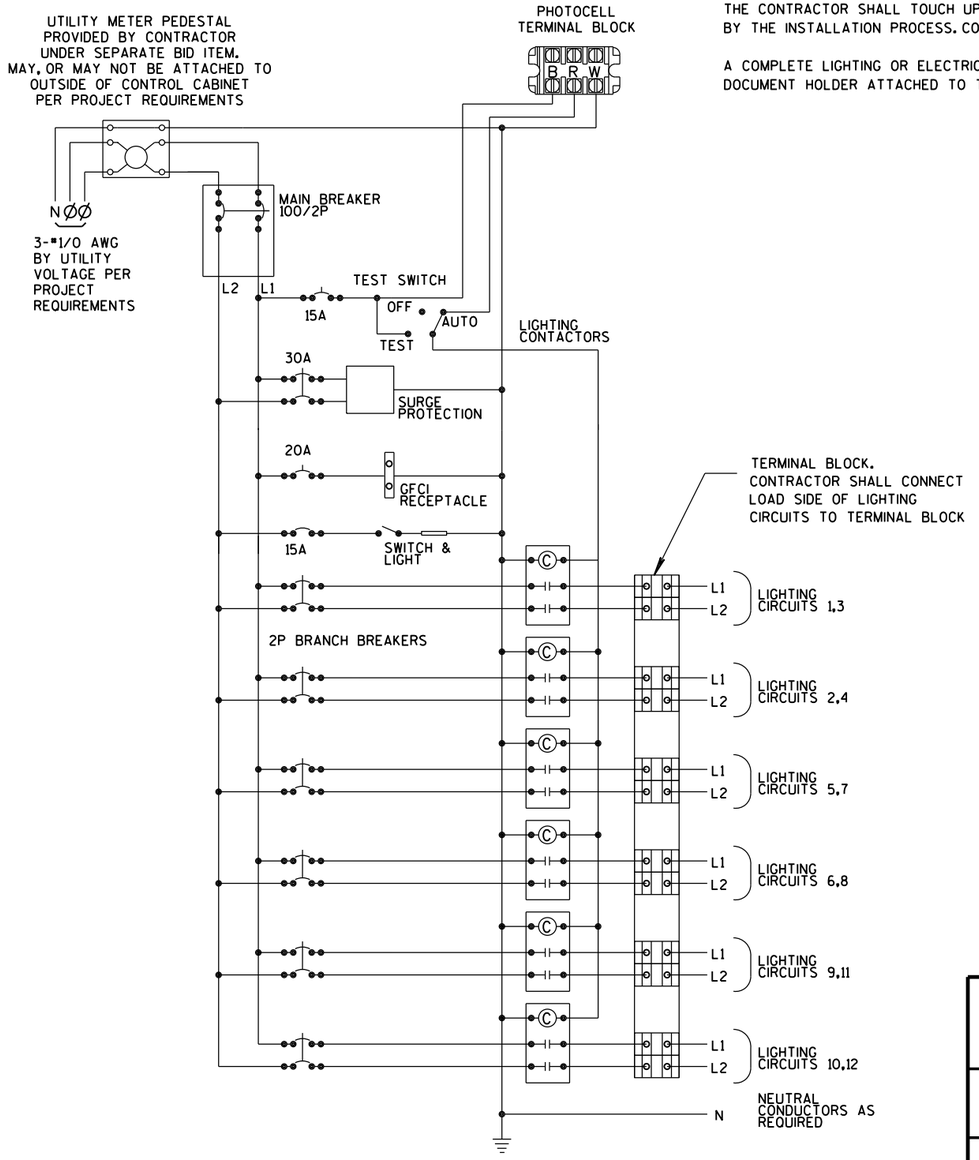


TABLE OF DIMENSIONS (INCHES)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

LIGHTING CONTROL CABINET 120/240 VOLT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINEER
FHWA

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S.D.D. 9 D 4-2

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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

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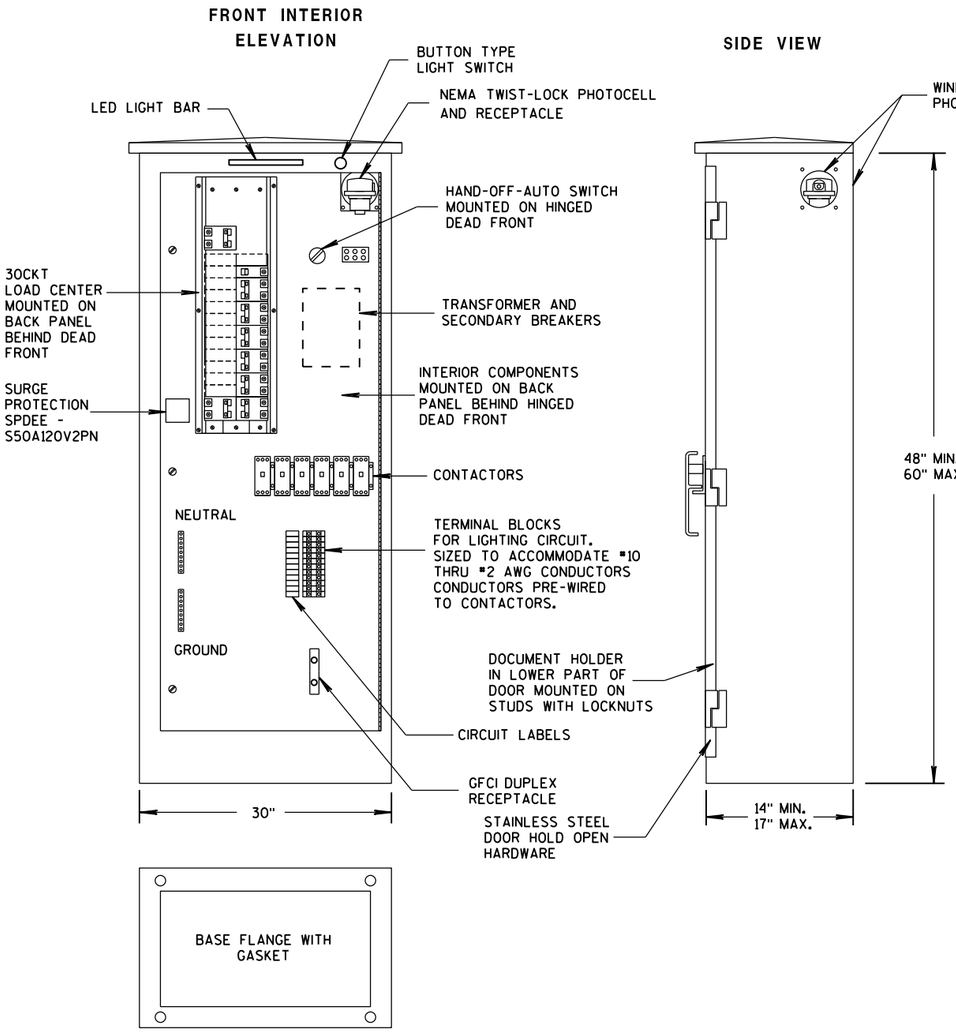
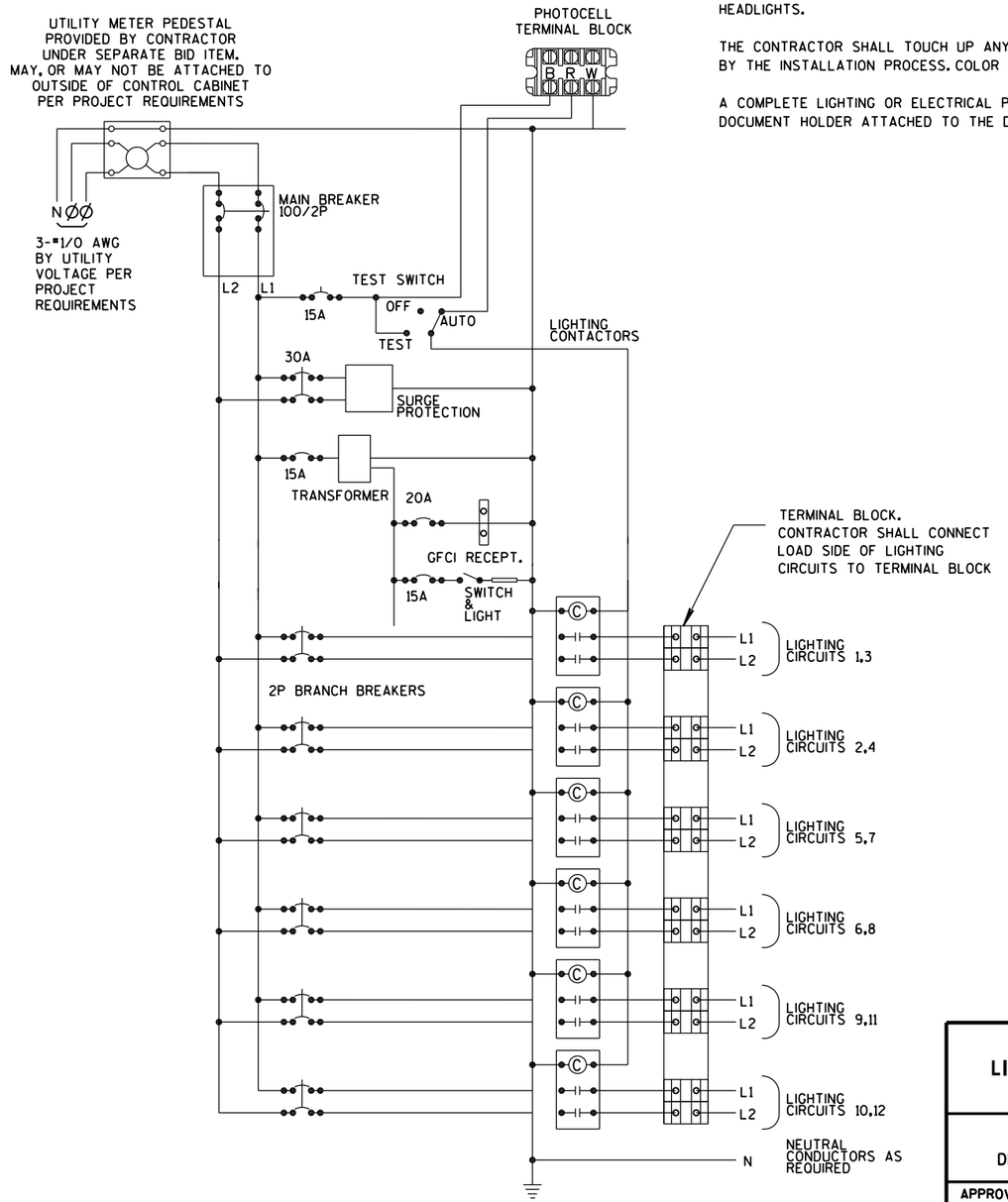


LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

L30
LIGHTING CONTROL CABINET 240/480 VOLT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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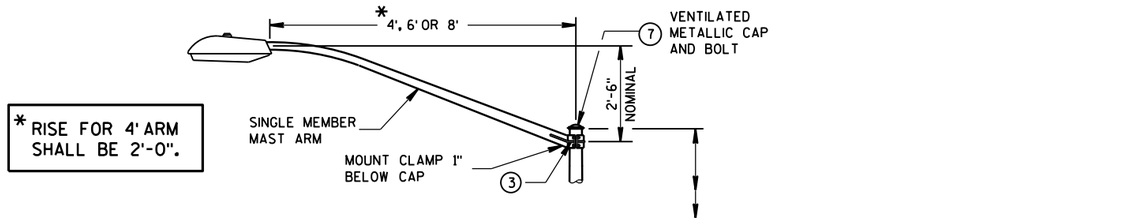
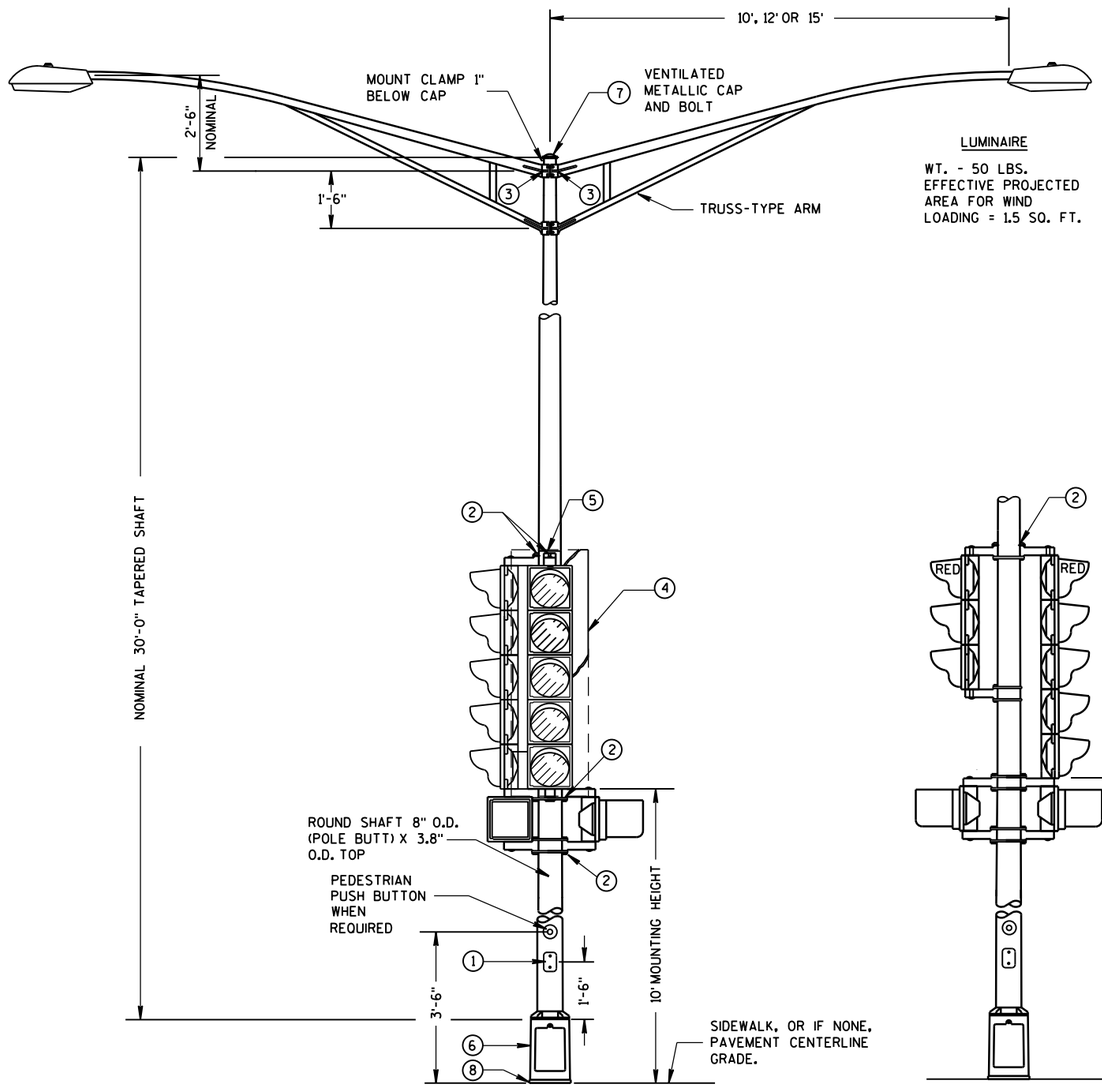
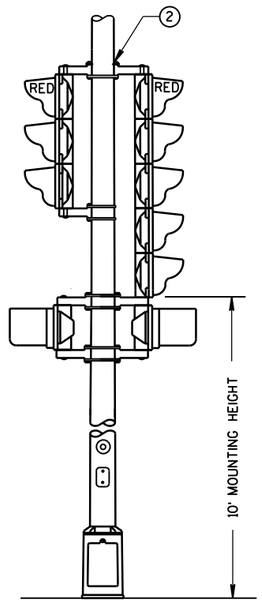




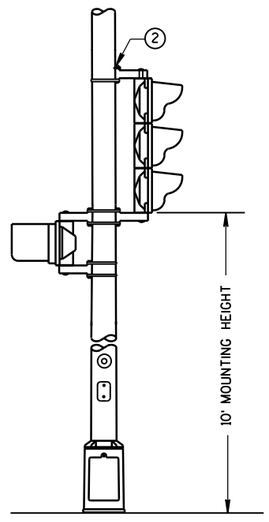
LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED AREA FOR WIND LOADING = 1.5 SQ. FT.

(MAXIMUM LOAD)

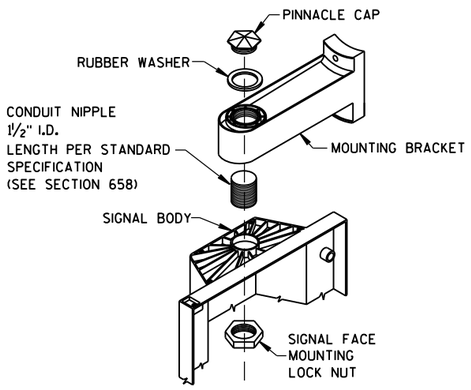


TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

TYPE 4 POLE MOUNTING CONFIGURATION



SIGNAL FACE MOUNTING DETAIL
(BANDED)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 4 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL WITH A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658).

(3) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

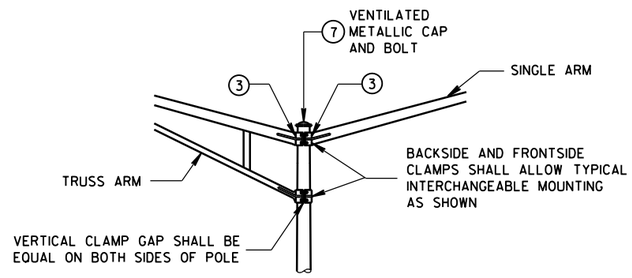
(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(7) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(8) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

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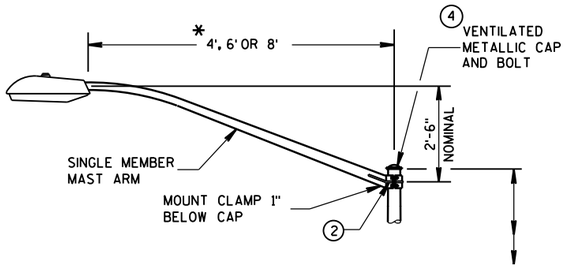
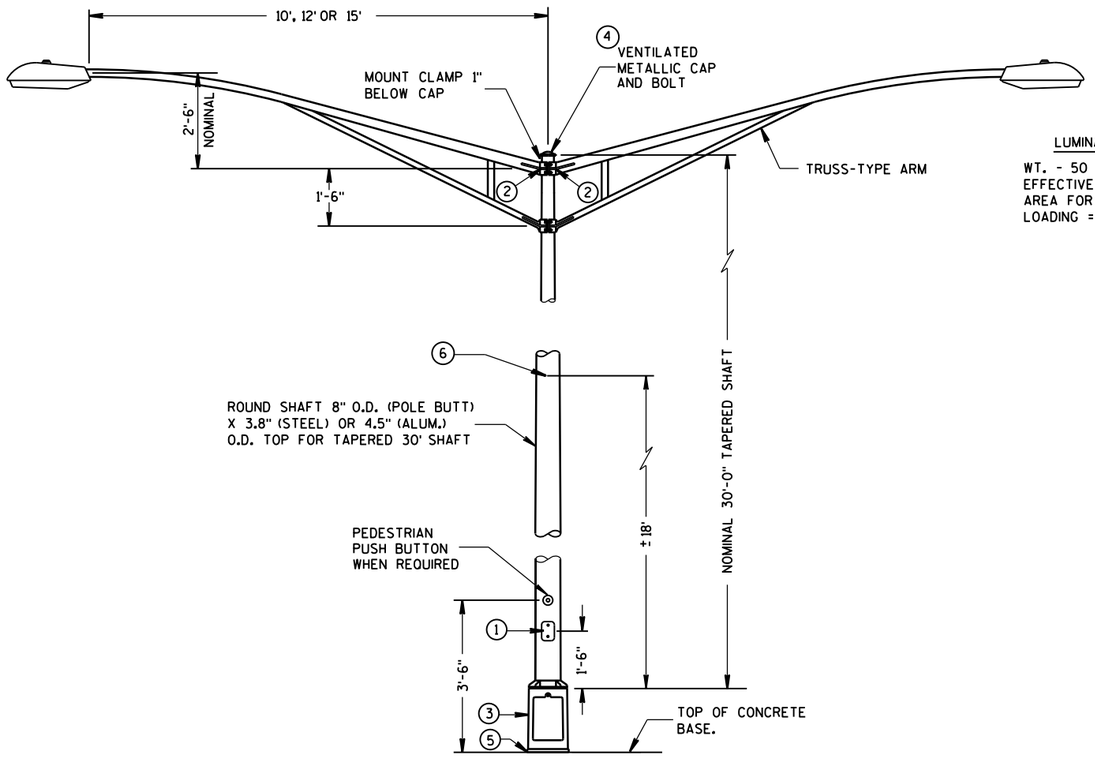
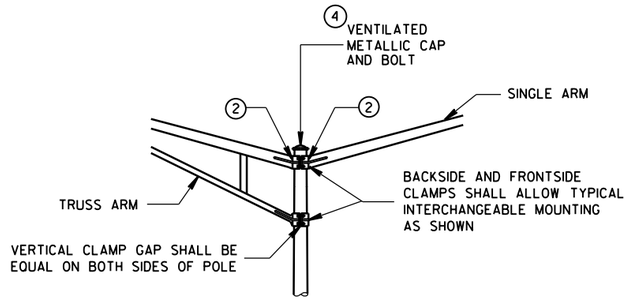
*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

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POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
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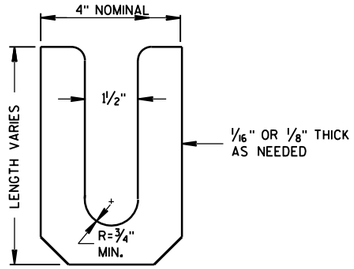
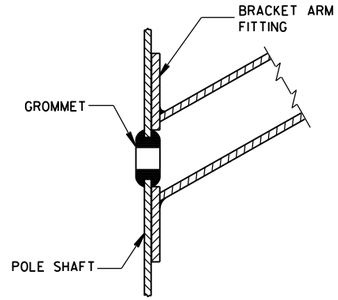
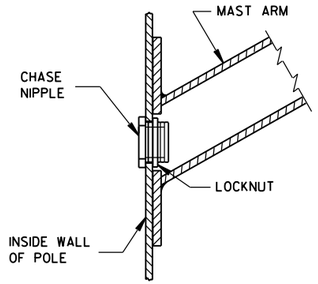


LEVELING SHIM (13)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

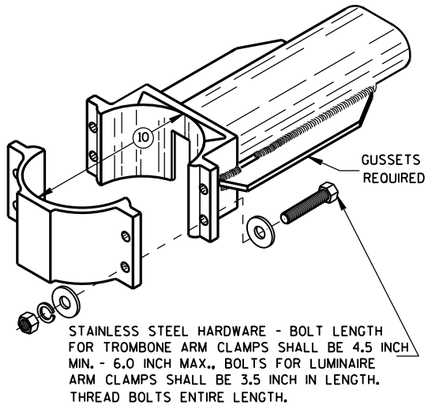
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

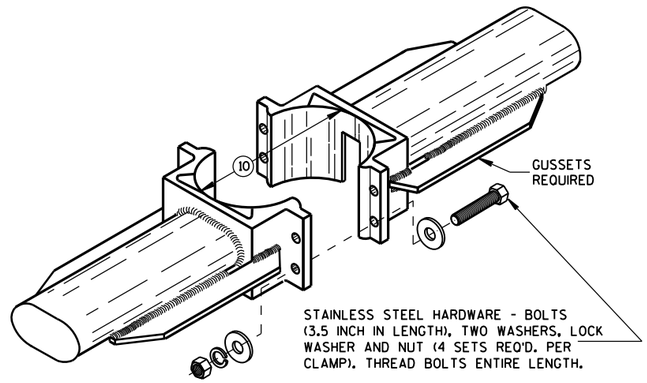
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

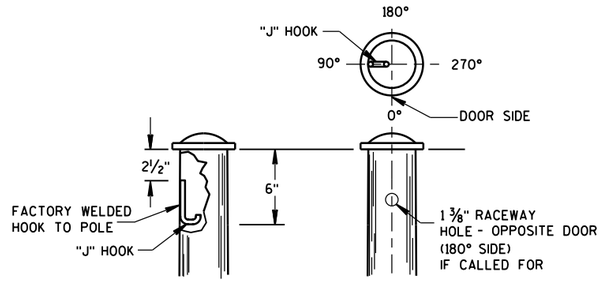
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



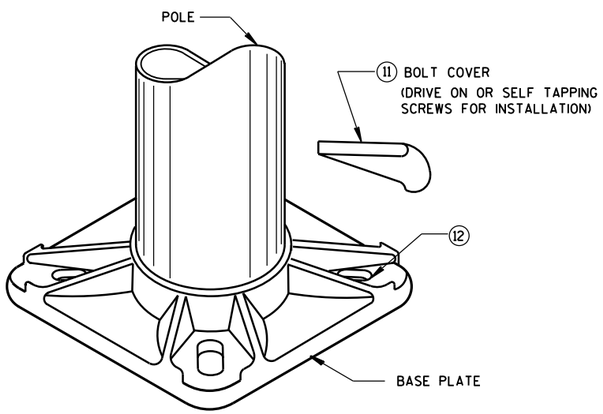
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



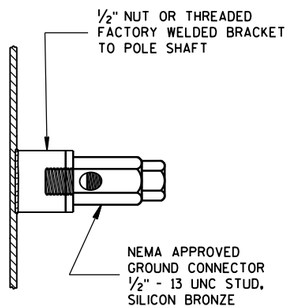
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

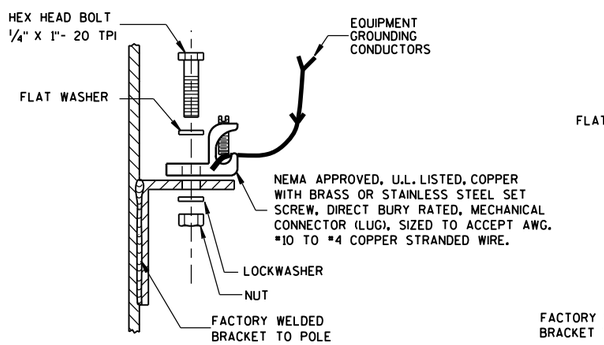


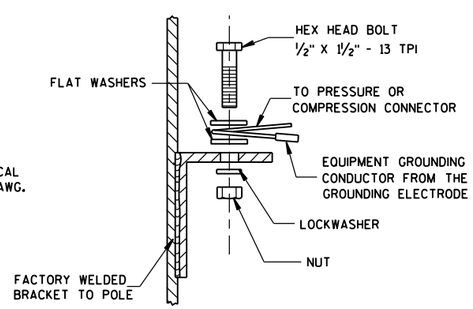
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

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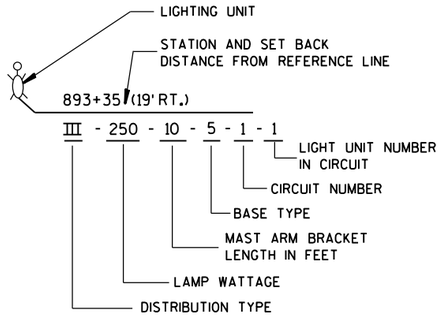
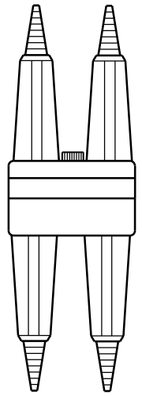
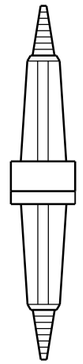
S.D.D. 9 E 1-14g



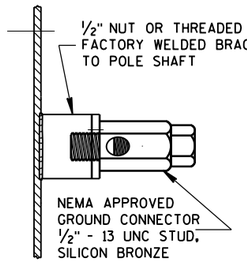
LIGHTING UNIT CODE
(TYPICAL)

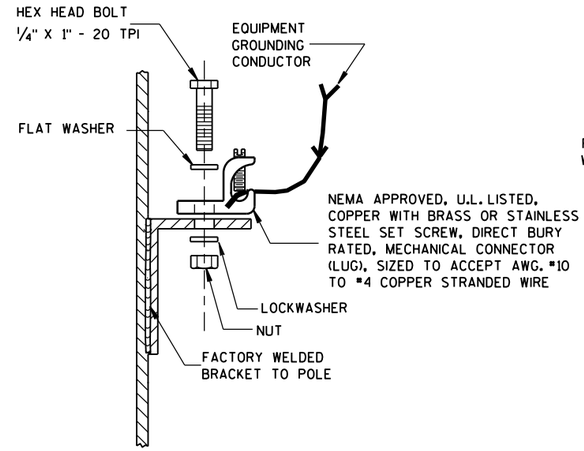


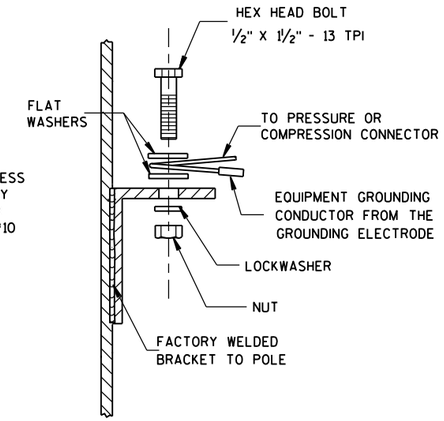
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



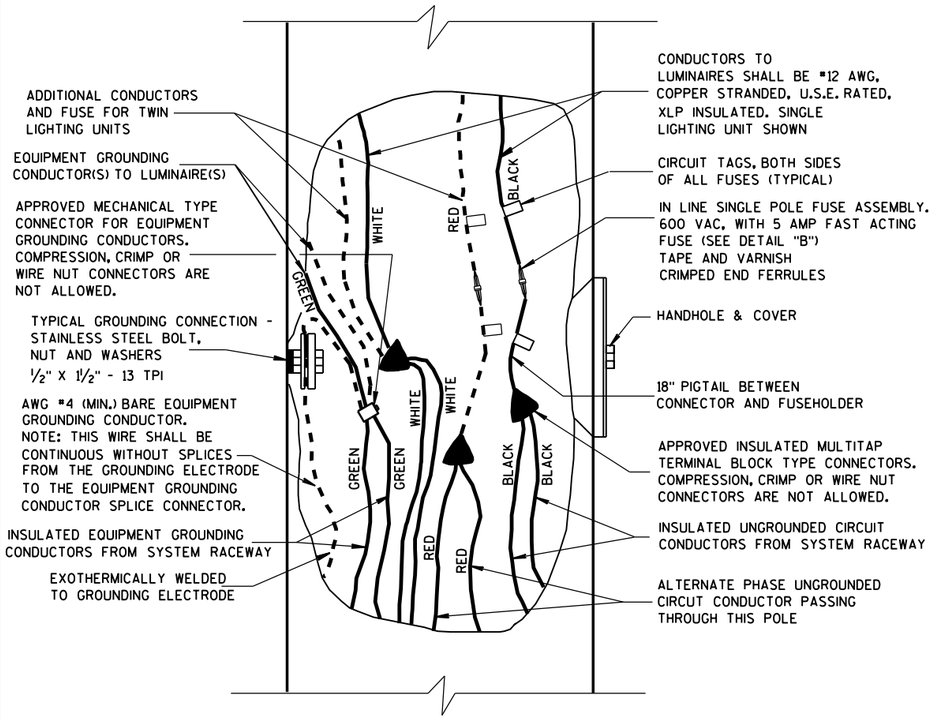
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



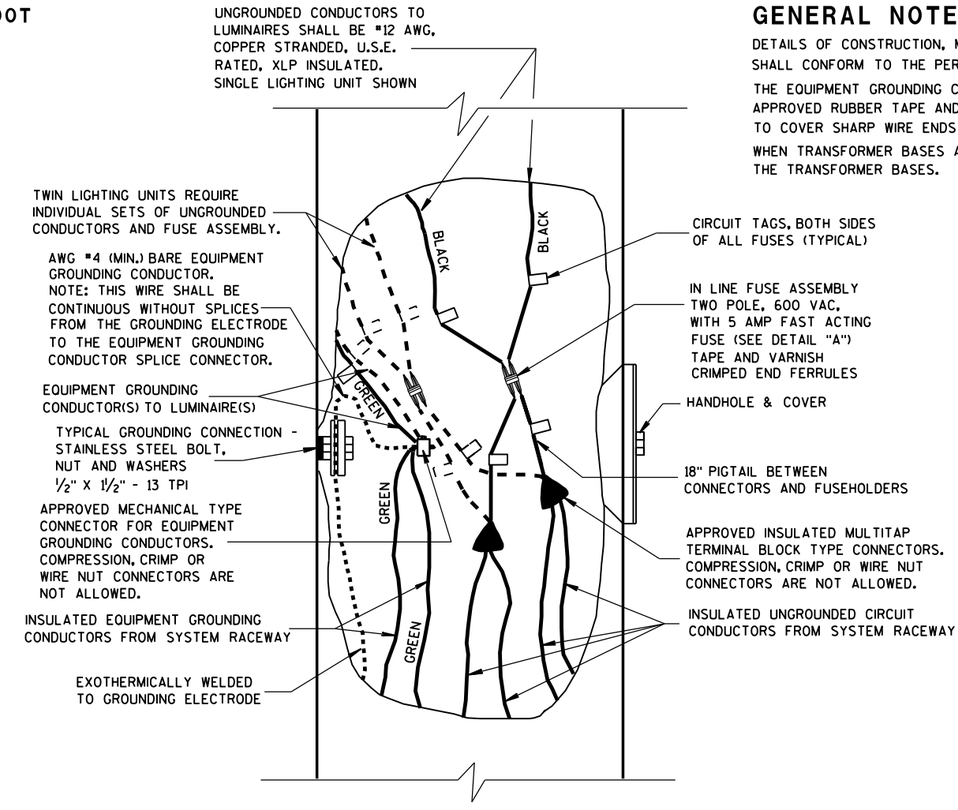




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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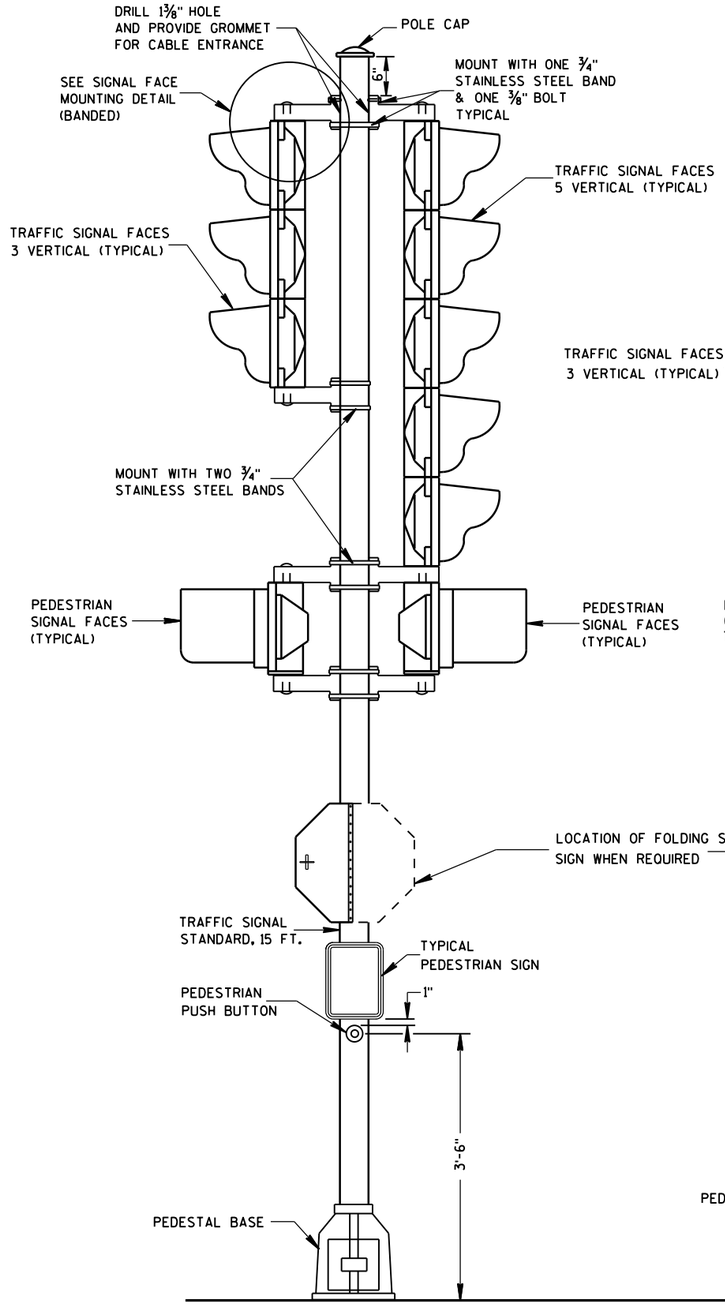
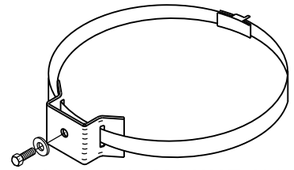
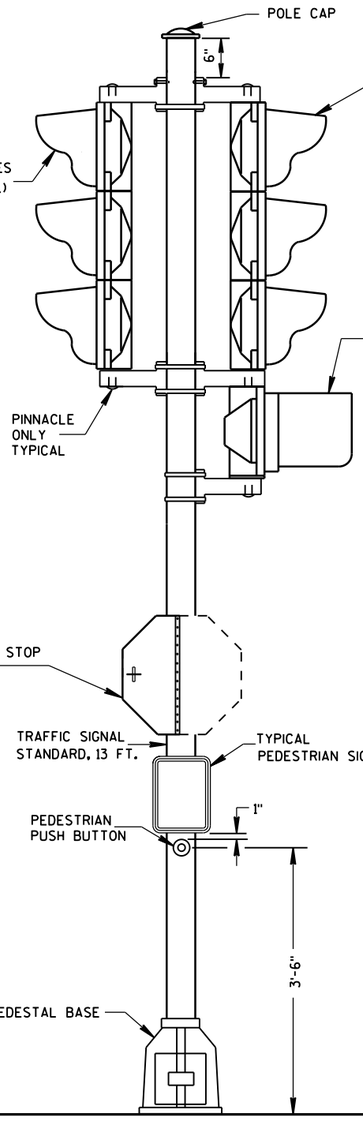
S.D.D. 9 E 3-5



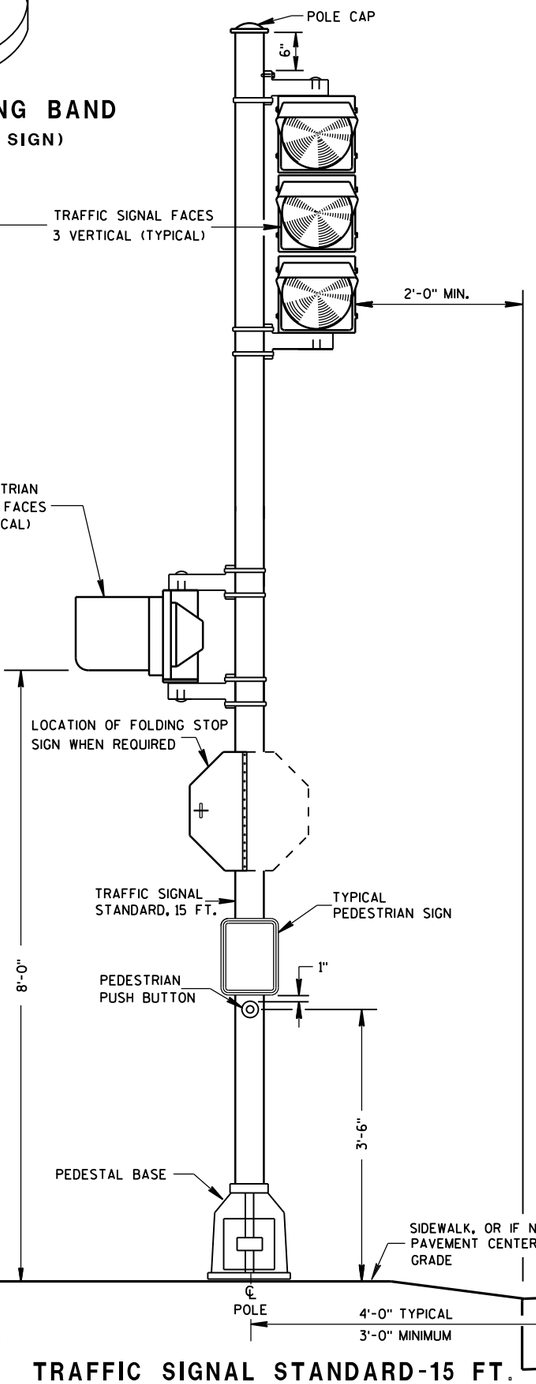
TRAFFIC SIGNAL STANDARD-15 FT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-13 FT.



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

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.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

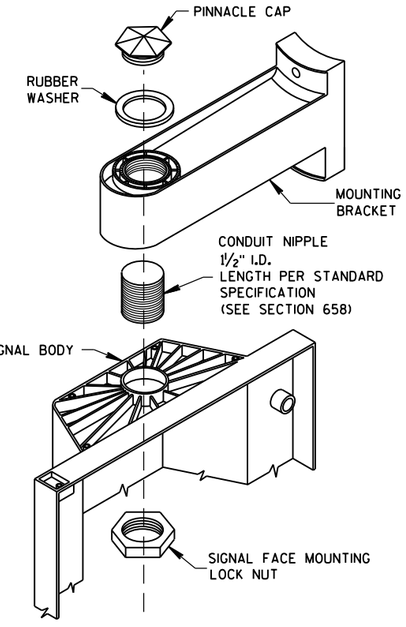
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

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.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

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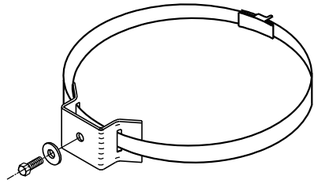
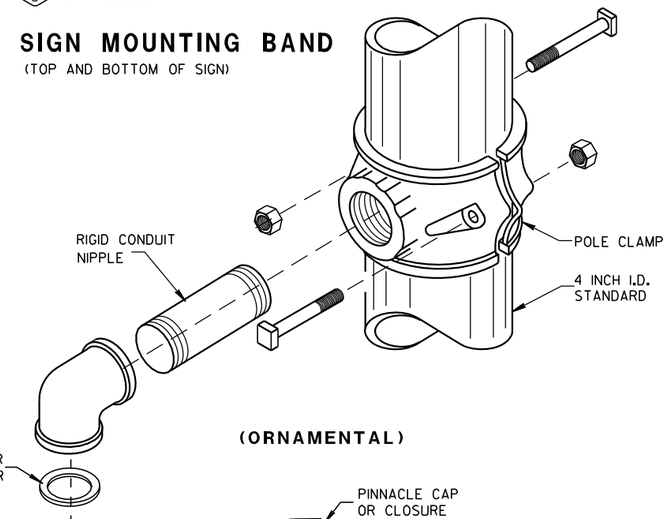
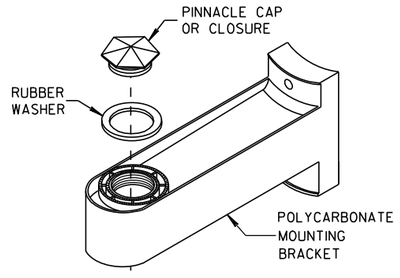


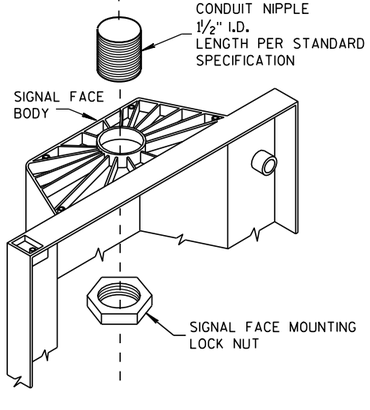
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



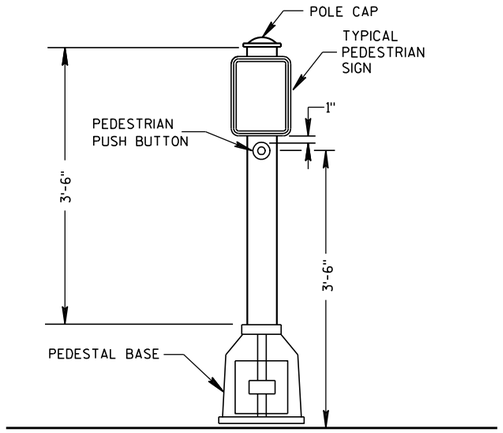
(ORNAMENTAL)



(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.

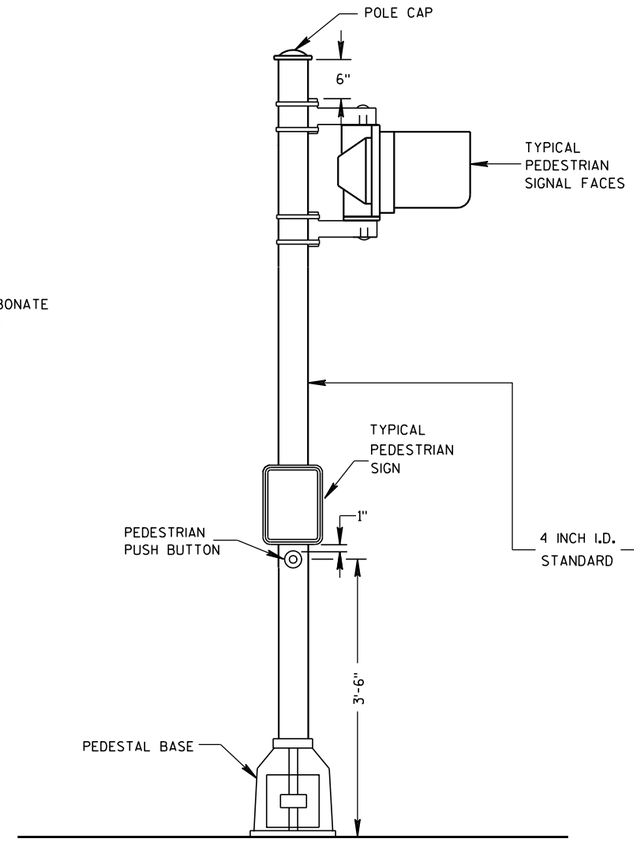
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

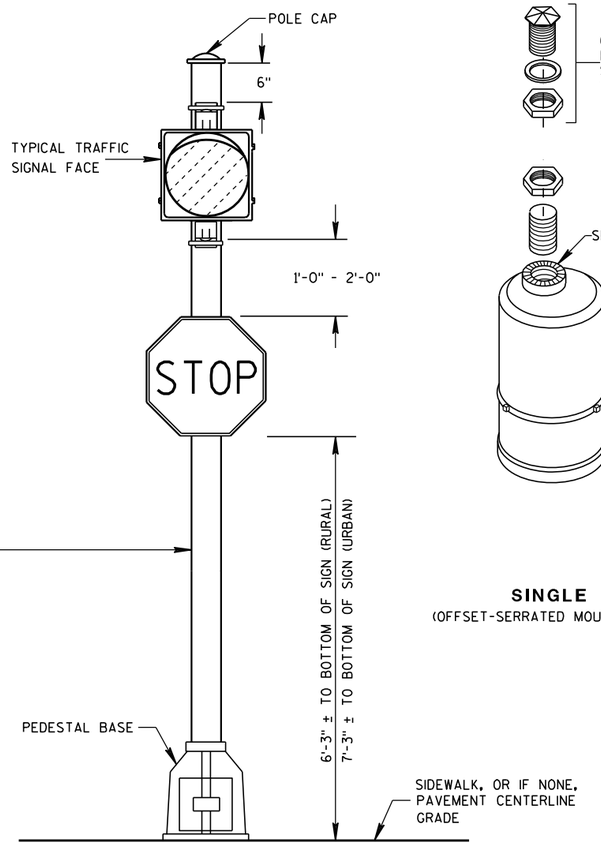
MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

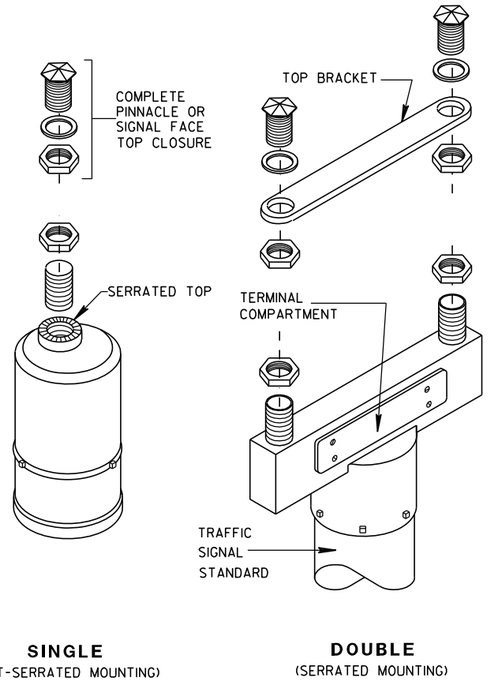
FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



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

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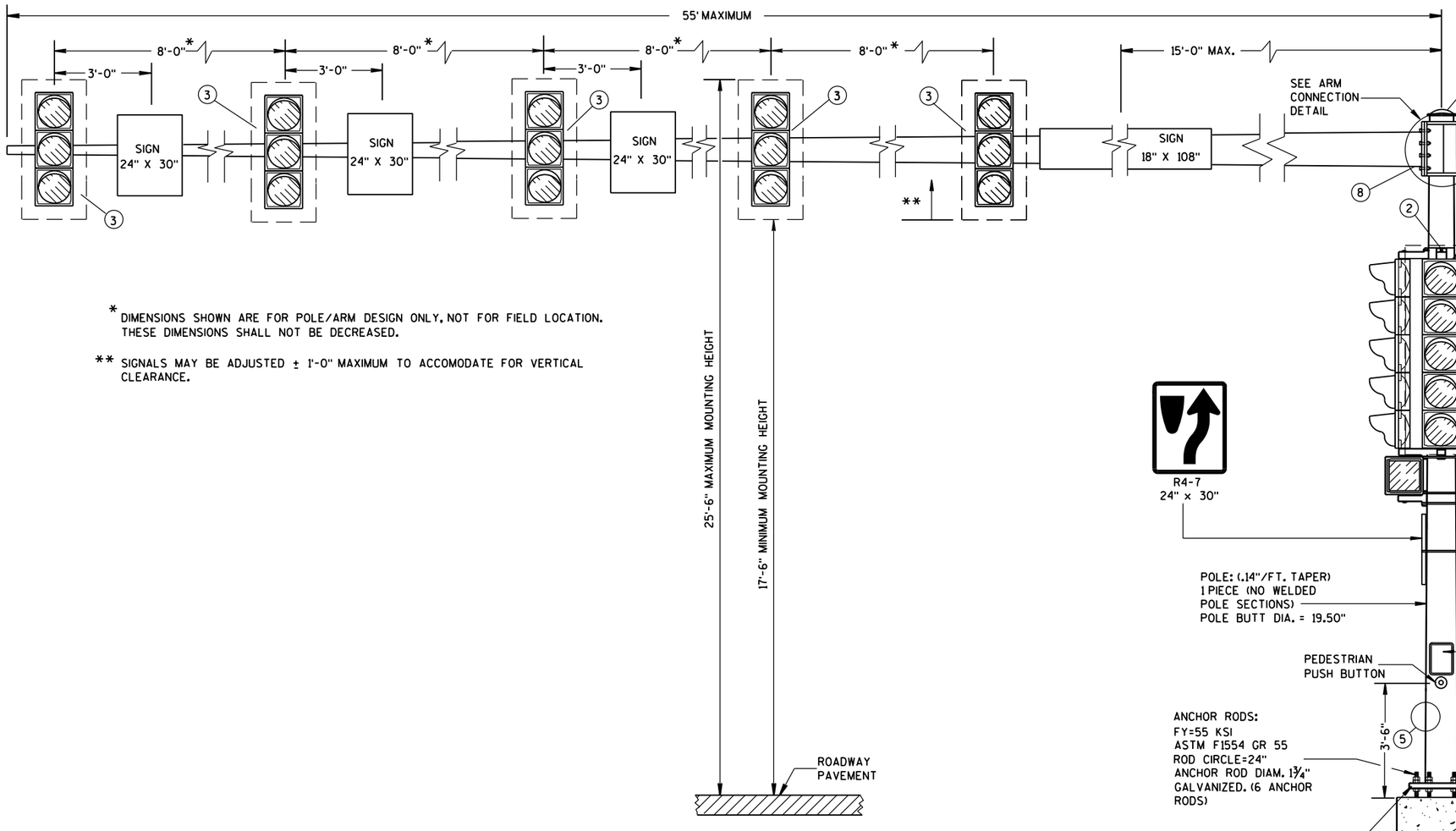
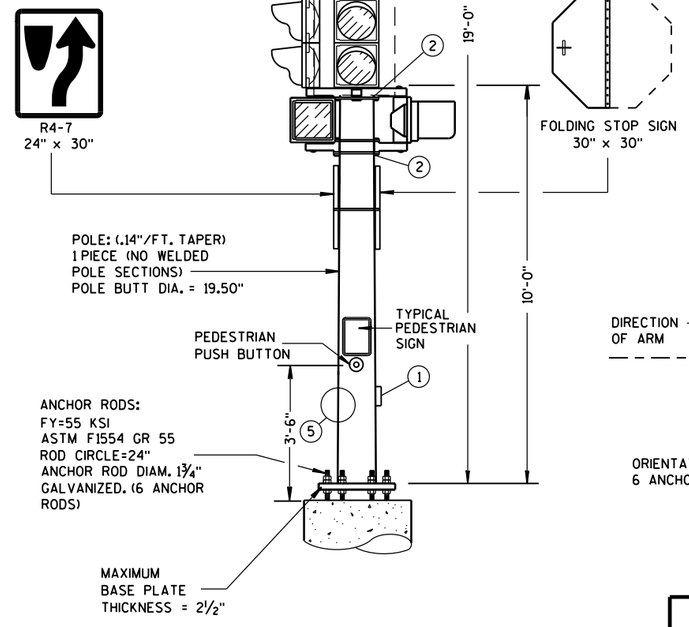
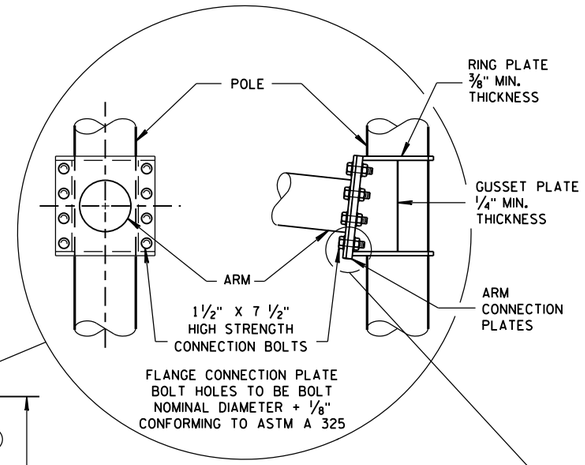


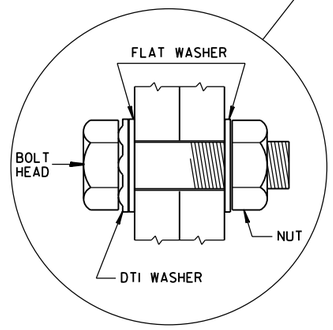
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

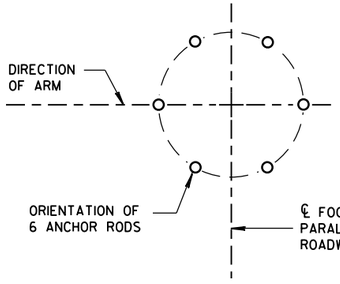




8 BOLT ARM CONNECTION DETAIL



RECOMMENDED
BOLT ASSEMBLY
DETAIL



ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 12 POLE 35'- 55' MONOTUBE ARM

TYPE 12 POLE 35' - 55' MONOTUBE ARM
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED June, 2015 (DATE) /S/ Ahmet Demirbilek STATE ELECTRICAL 318 FHWA

6

S.D.D. 9 E 8-7c

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S.D.D. 9 E 8-7c

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO 2013 6TH EDITION AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

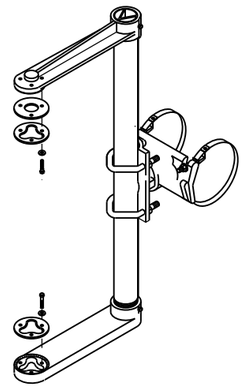
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

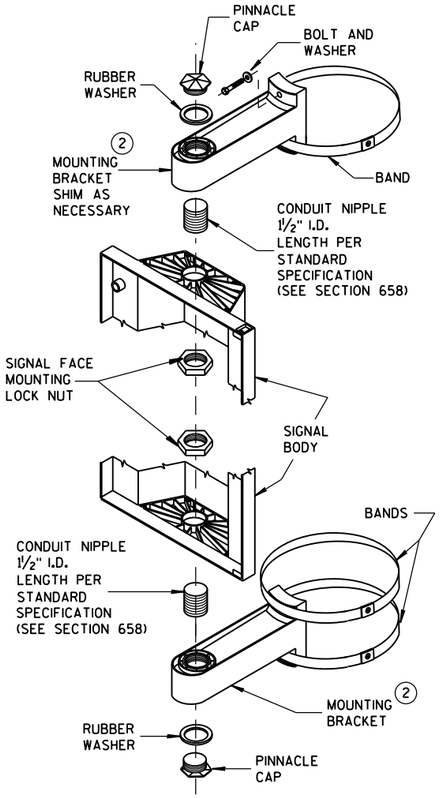
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

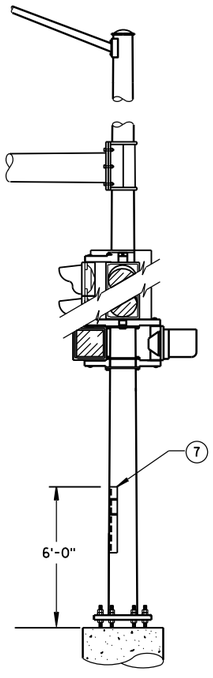


SIGNAL FACE MOUNTING BRACKET
DETAIL FOR MONOTUBE ARM

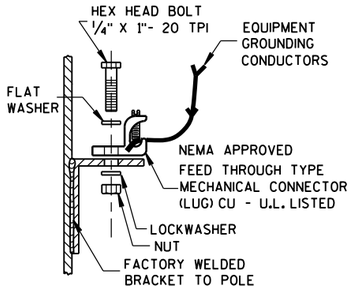
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE
VERTICAL MOUNTING DETAIL

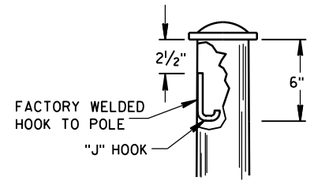


STRUCTURAL IDENTIFICATION
PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL
BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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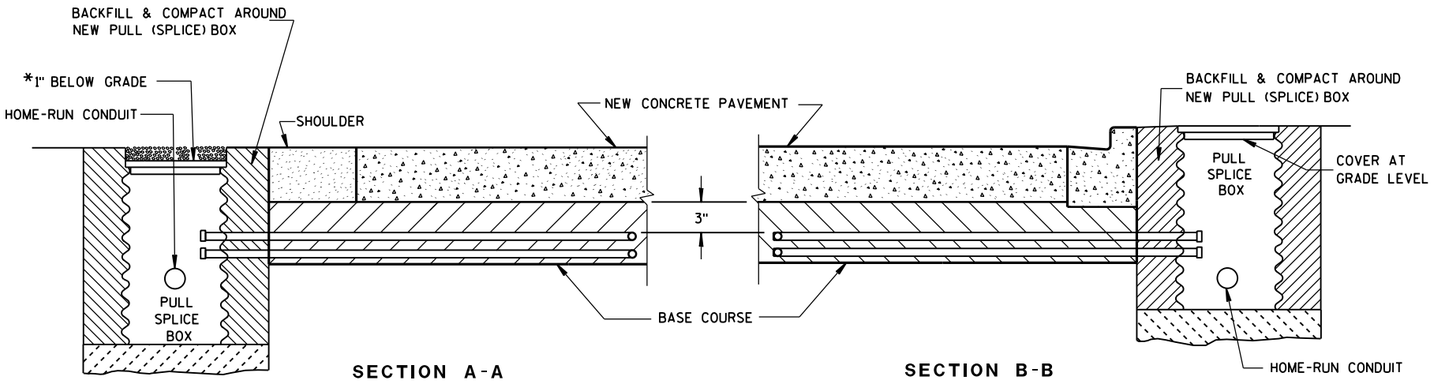


SECTION A-A
NO CURB & GUTTER

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.

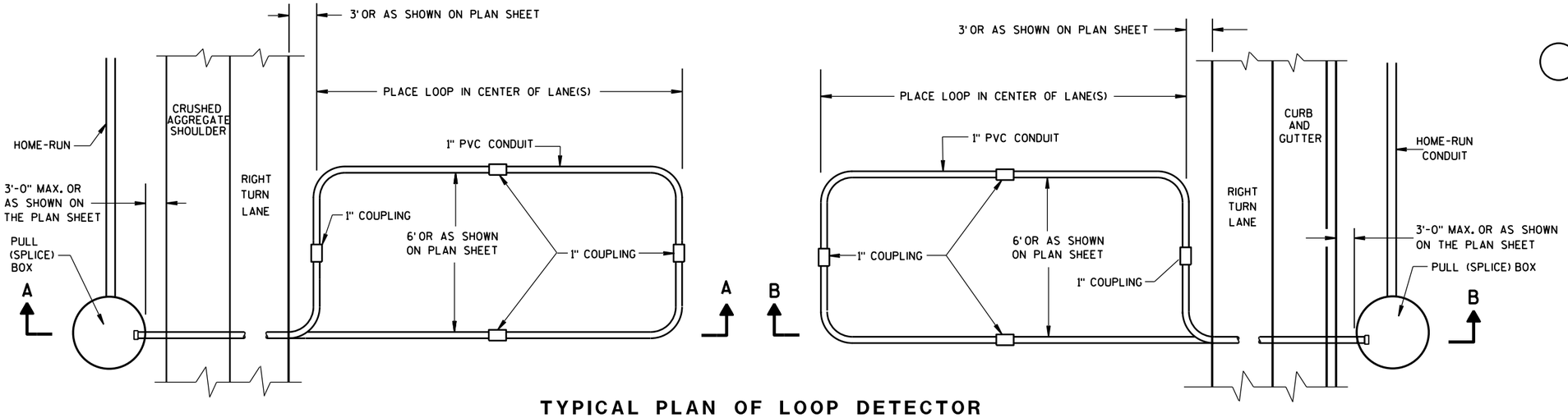
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

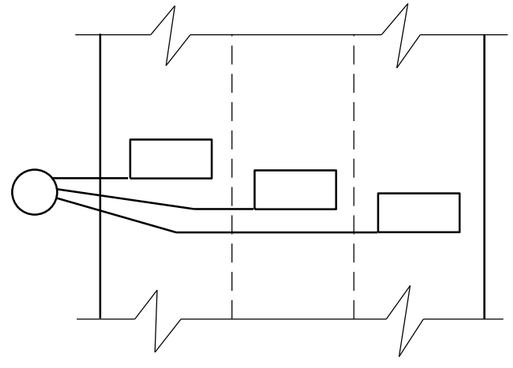
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

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.

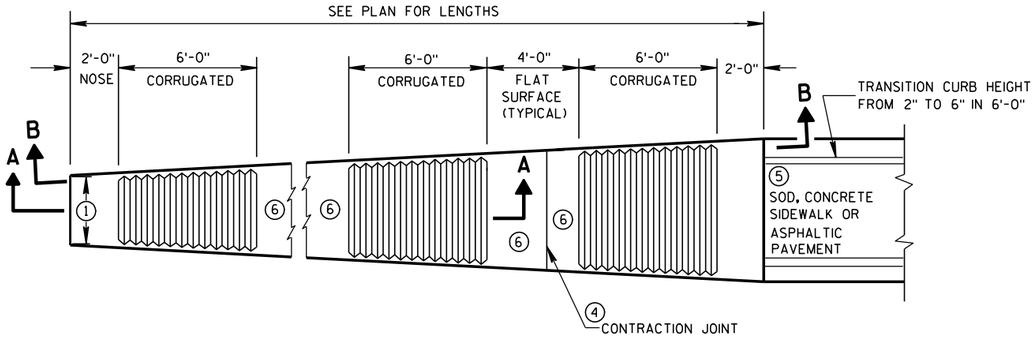


TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



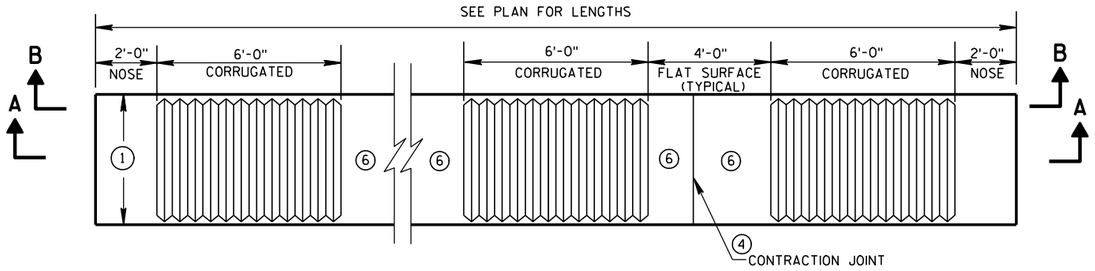
MULTI-LANE INSTALLATION

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



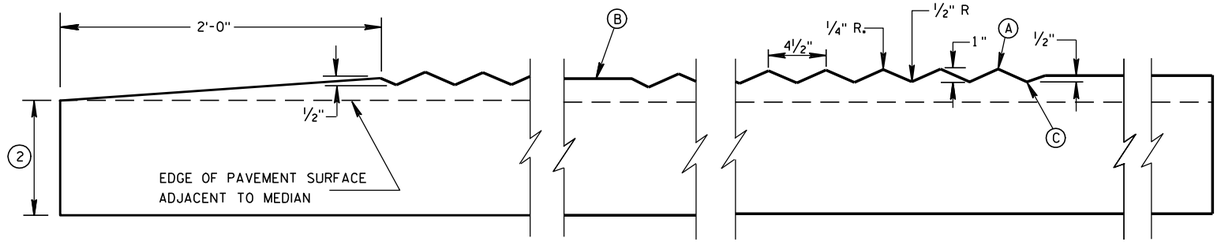
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.

(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) 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.

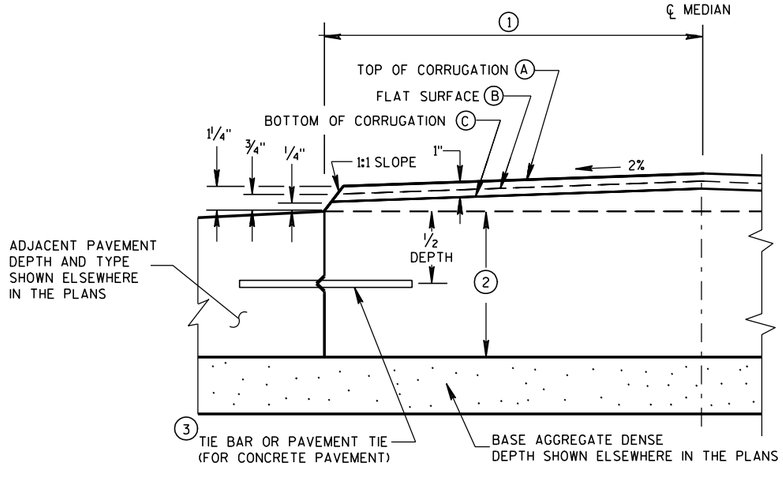
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR 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.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

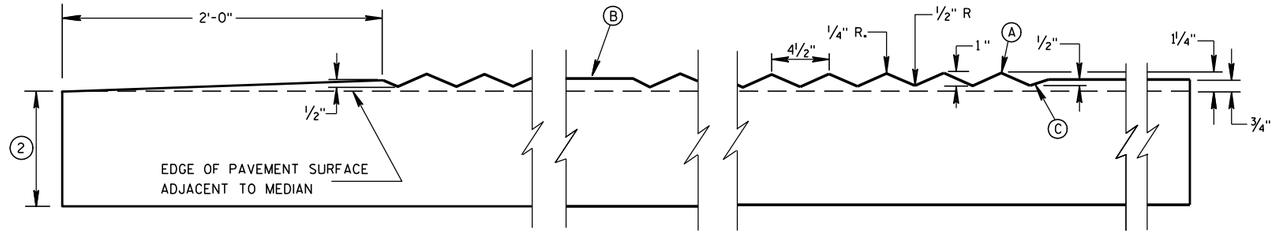
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
12/17/07 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS ENGINEER
FHWA	321

6

S.D.D. 11 B 1-5

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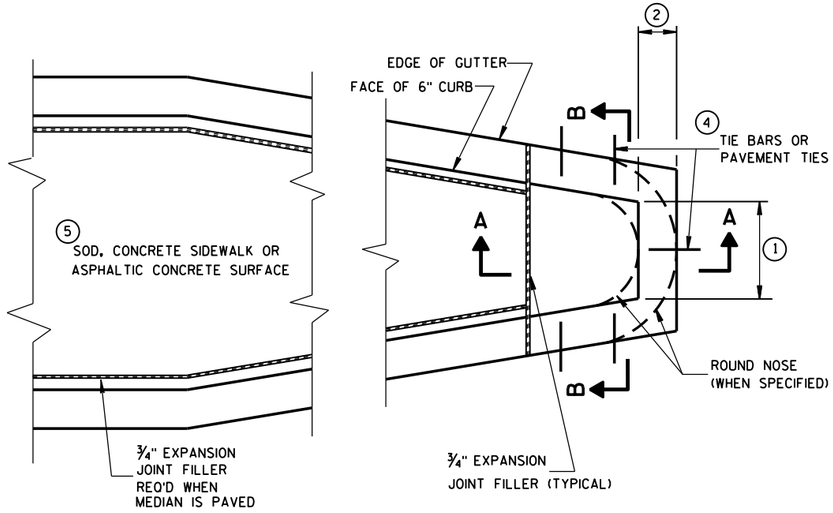
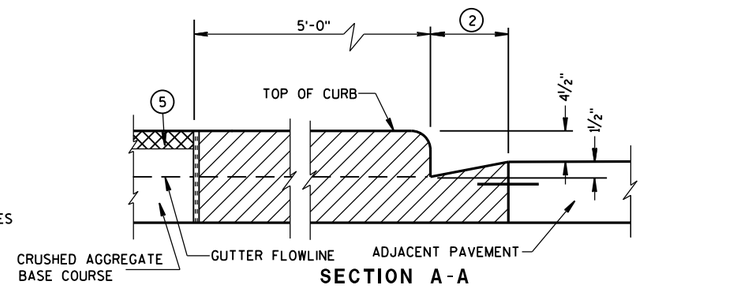
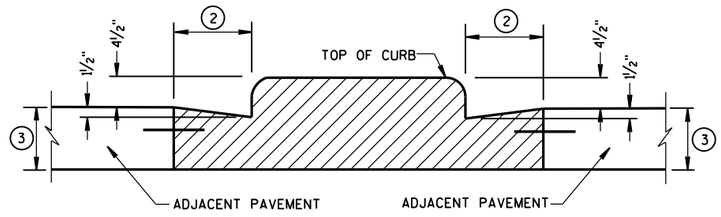
S.D.D. 11 B 1-5







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.

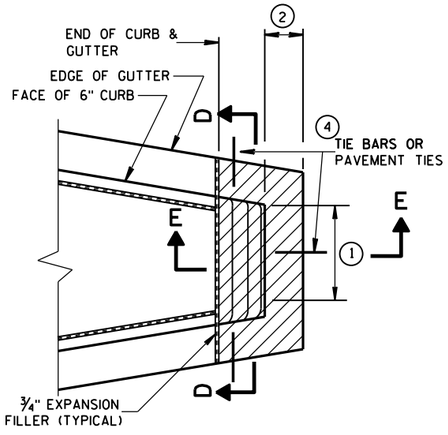
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

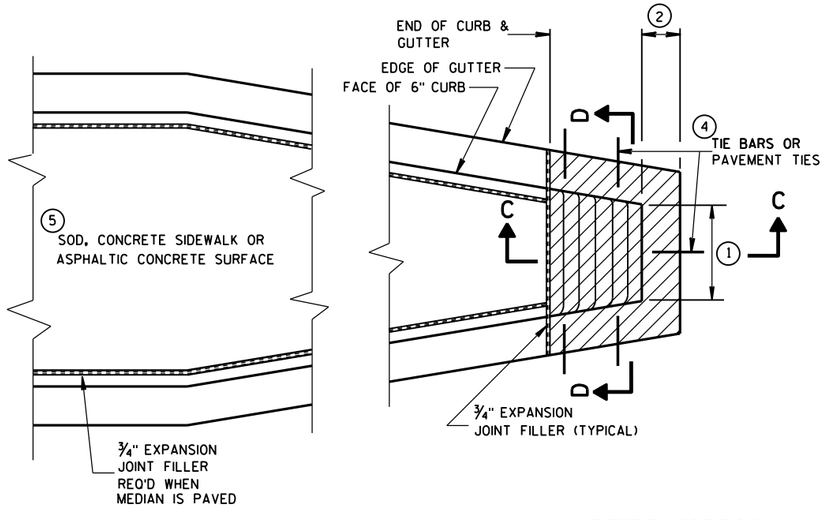
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

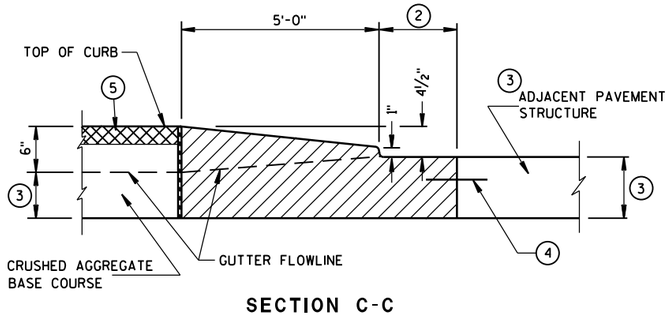
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

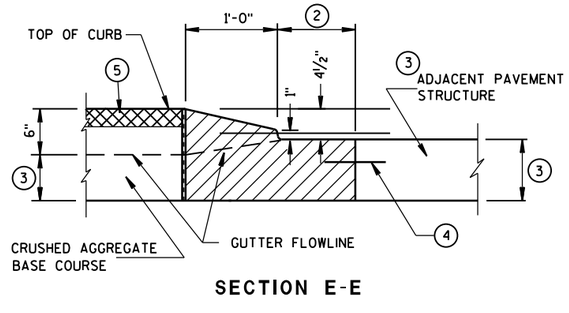
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



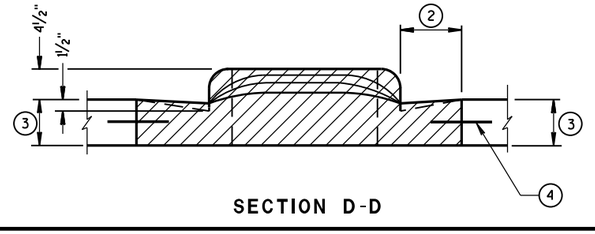






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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S.D.D. 11 B 2-2

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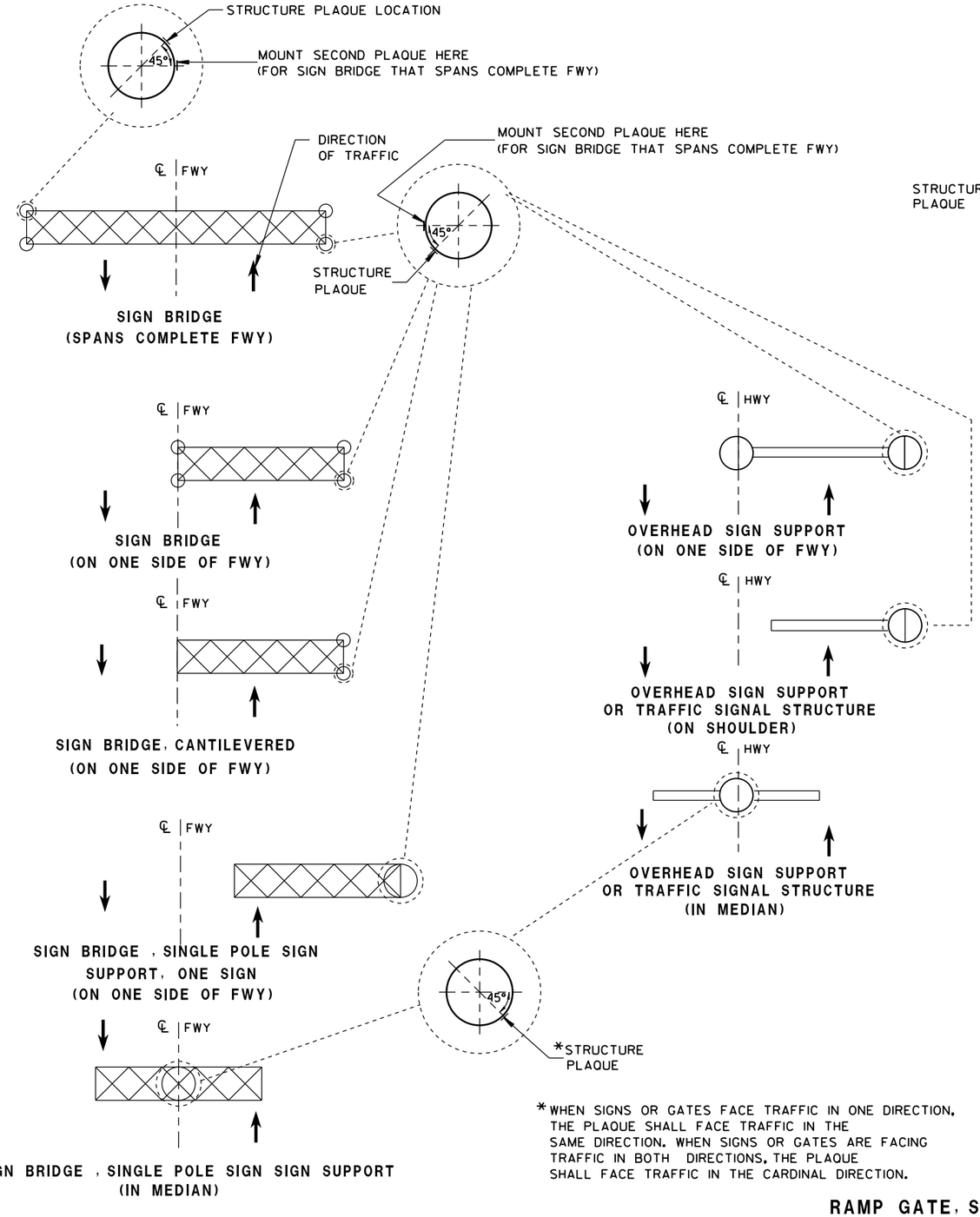
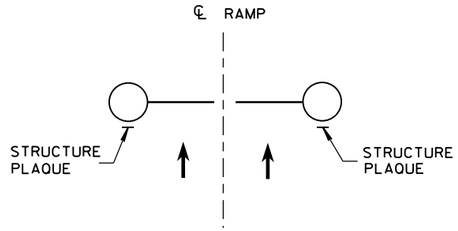
S.D.D. 11 B 2-2

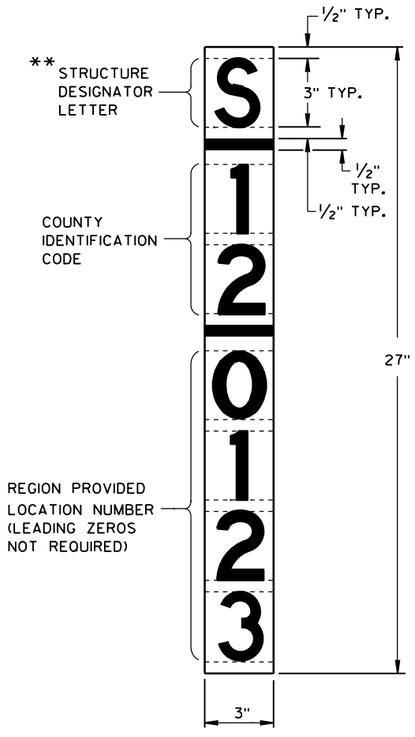


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



RAMP GATE
(ACROSS FWY ON-RAMP)



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

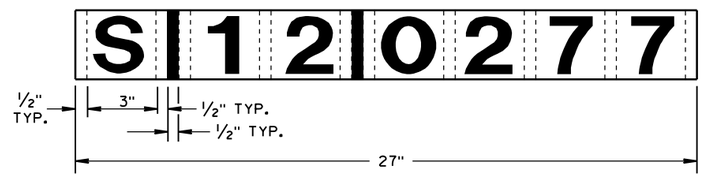
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 12 A 4-3

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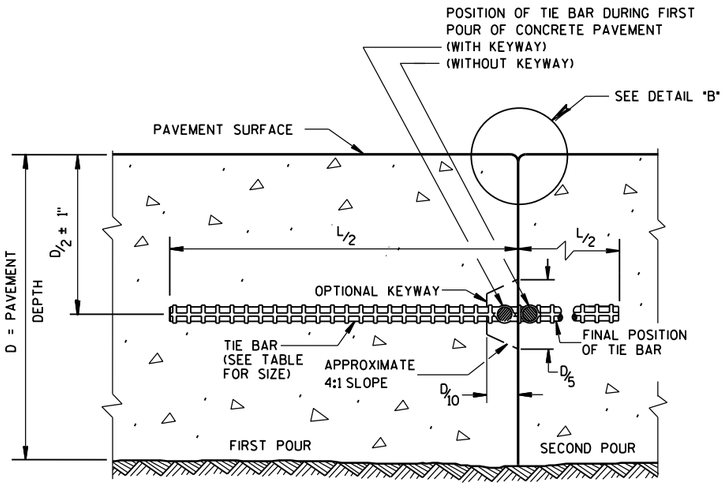
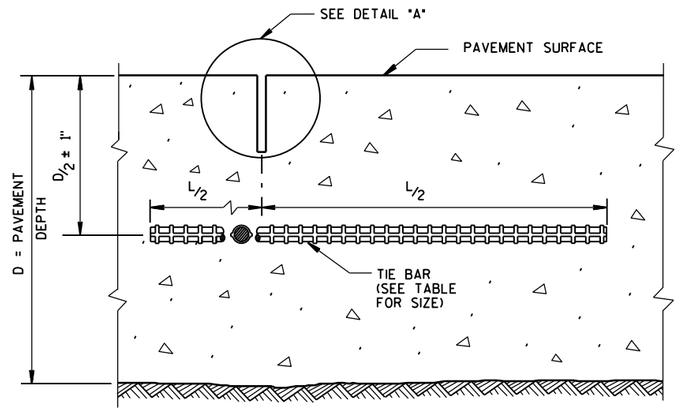
S.D.D. 12 A 4-3



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

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.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

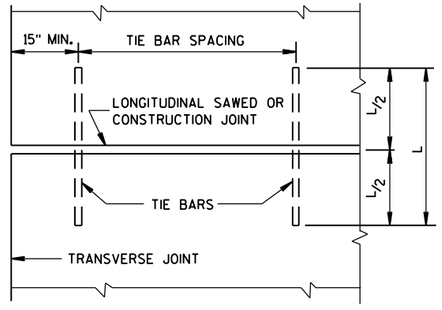
DETAIL "C"

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
June, 2015
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPER

FHWA

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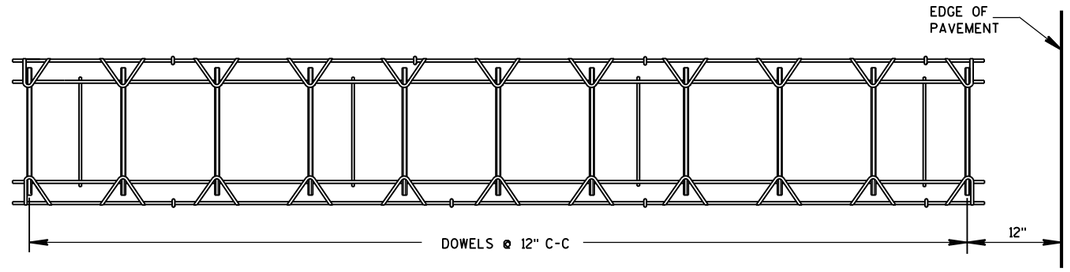
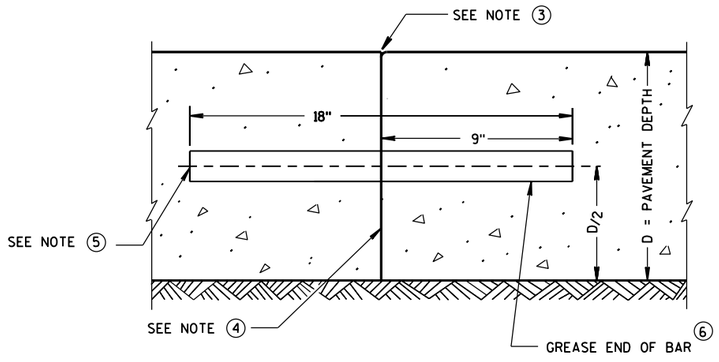
S.D.D. 13 C 1-18



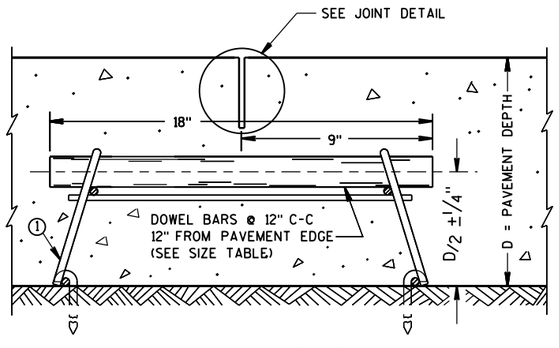
PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



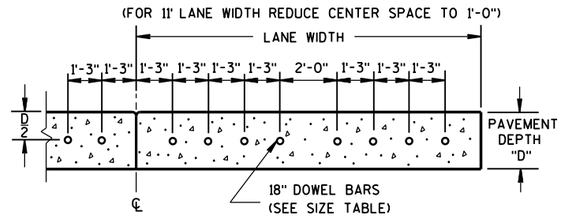
TRANSVERSE CONSTRUCTION JOINT



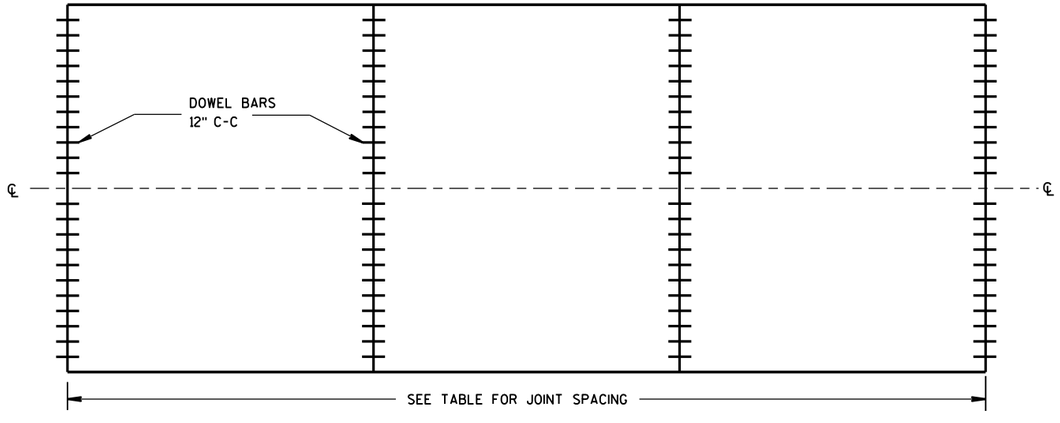
DOWELED CONTRACTION JOINT

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



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.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

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.

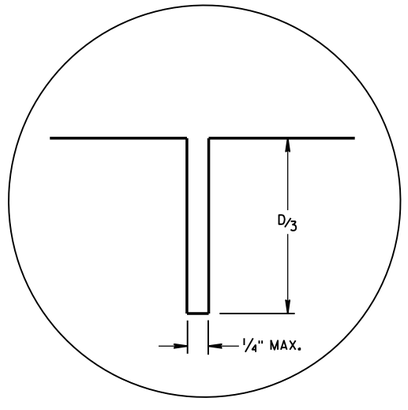
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

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
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

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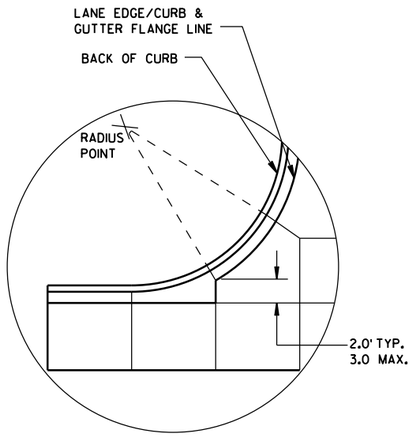
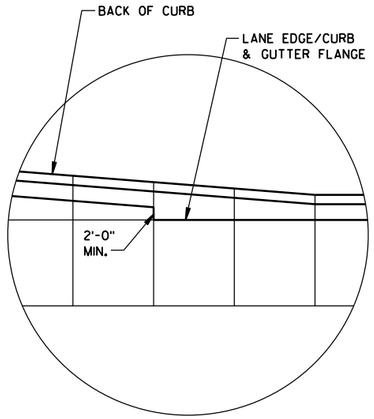
S.D.D. 13 C 13-8



DETAIL "A"



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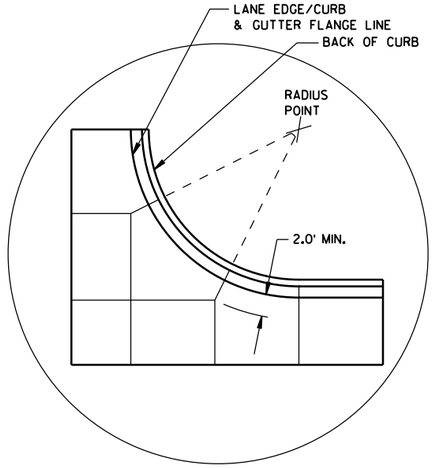
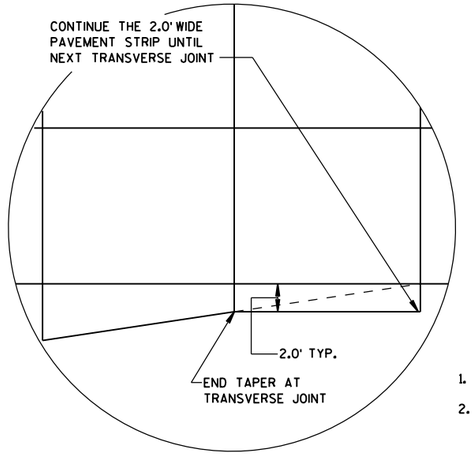


DETAIL "C"



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.

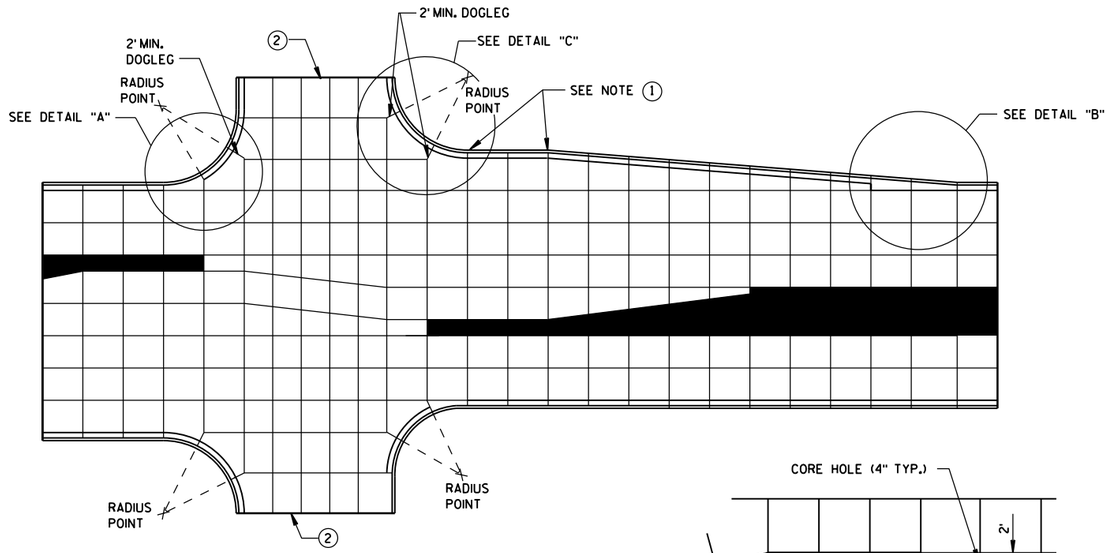
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

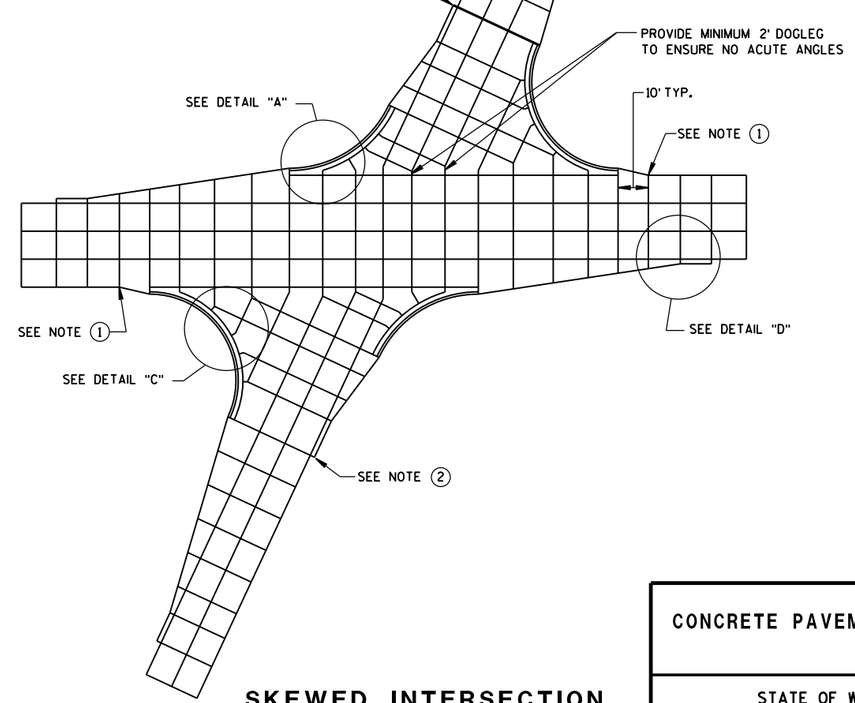
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



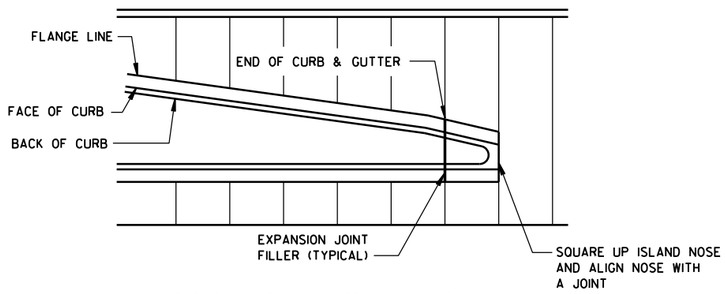
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

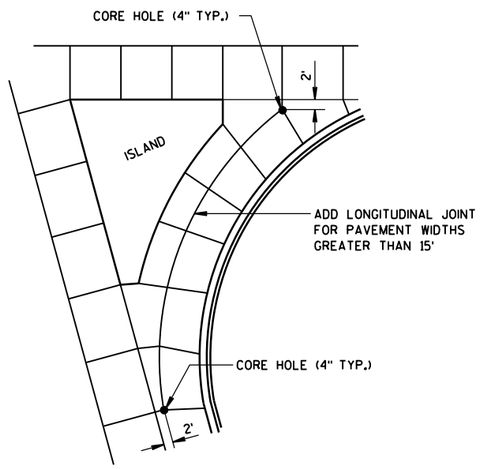
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

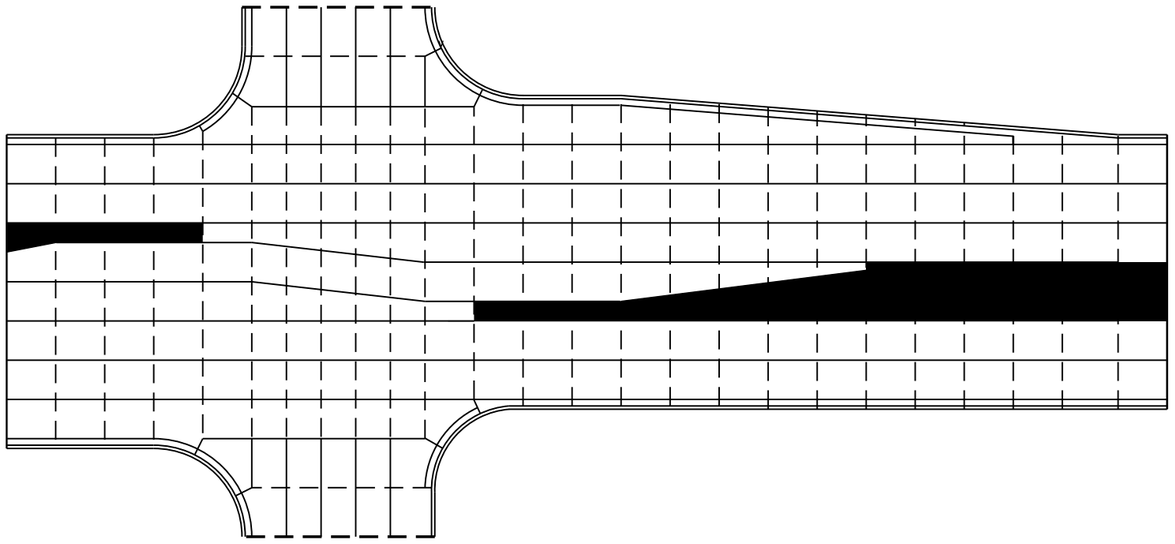
6
S.D.D. 13 C 18-3a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

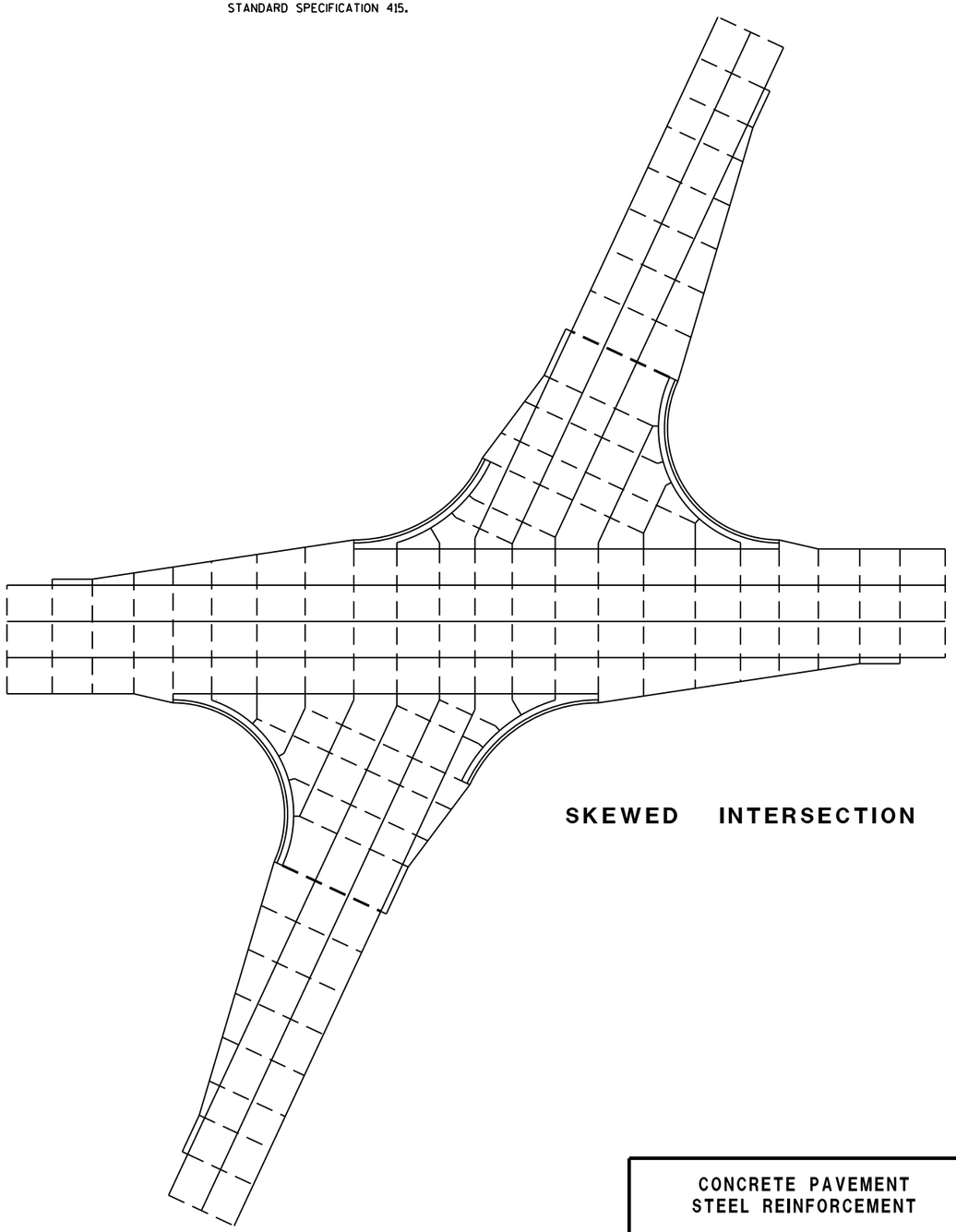
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

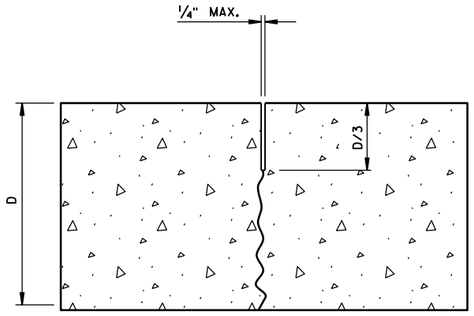
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

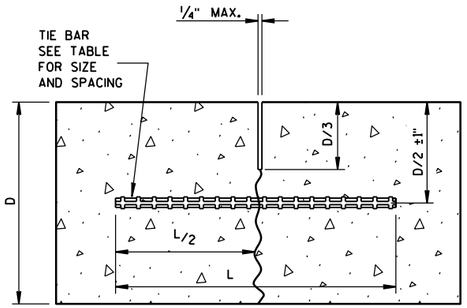
S.D.D. 13 C 18-3b

6

S.D.D. 13 C 18-3b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

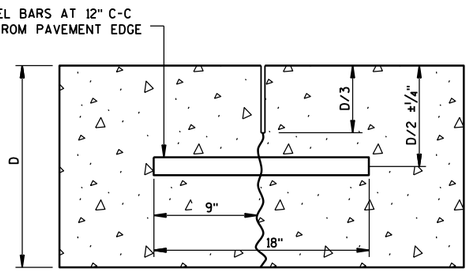
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* 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

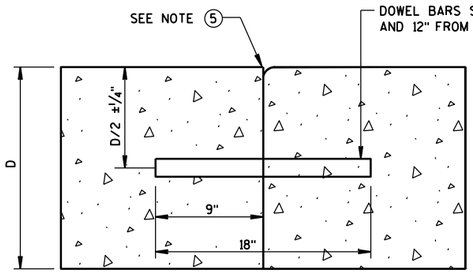
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 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.



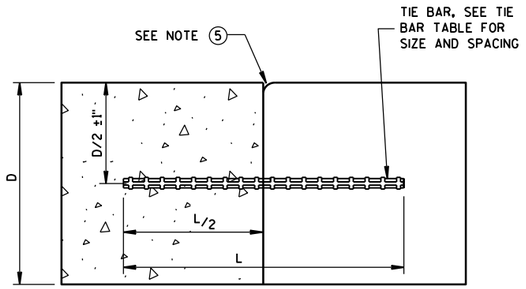
DOWELED-TRANSVERSE

CONTRACTION JOINTS

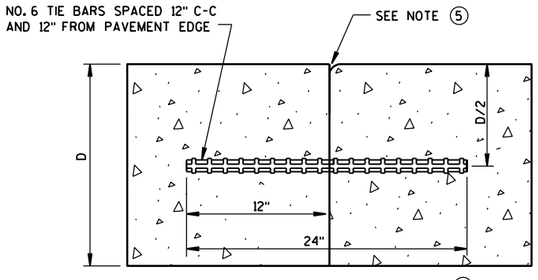
SEE NOTE (2)



DOWELED TRANSVERSE (3)

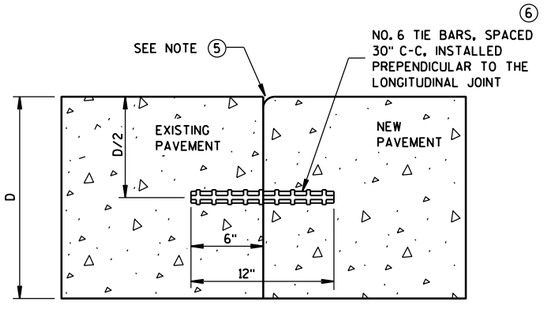


TIED LONGITUDINAL



TIED TRANSVERSE (3)

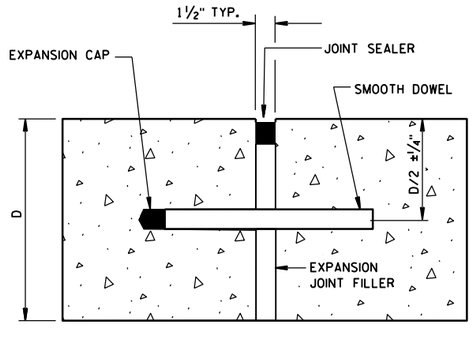
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

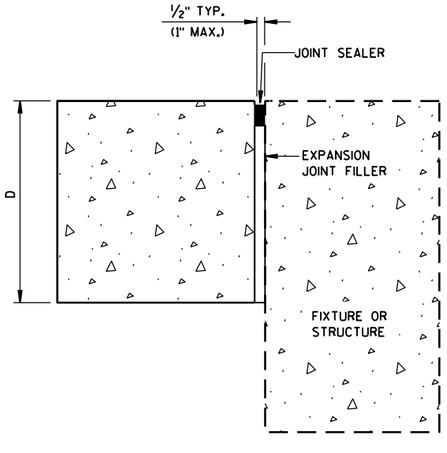
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

6

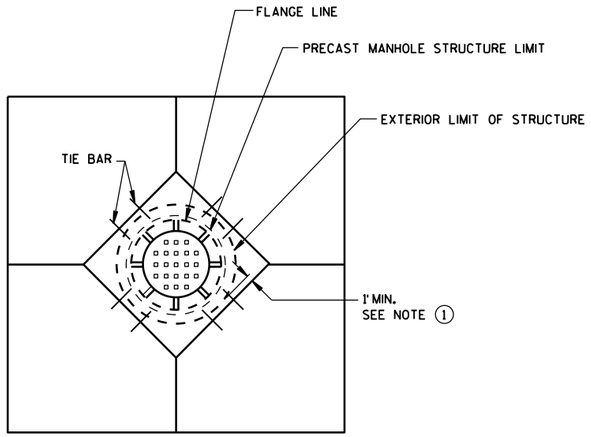
6

S.D.D. 13 C 18-3c

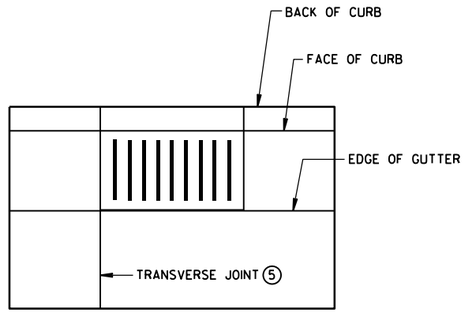
S.D.D. 13 C 18-3c

CONCRETE PAVEMENT
JOINT TYPES

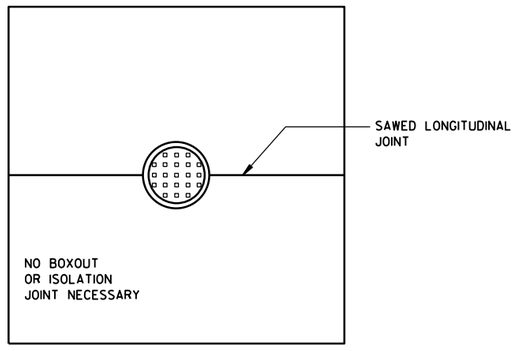
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



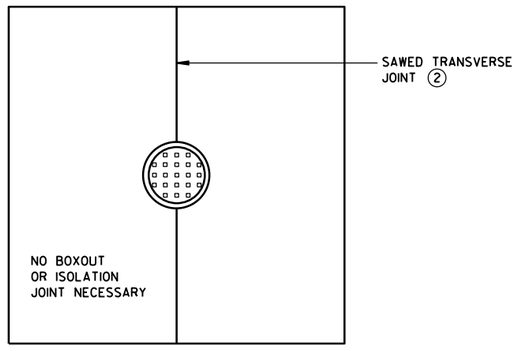
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



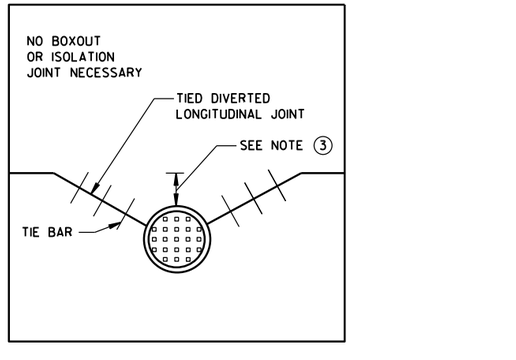
INLET WITH TRANSVERSE JOINT



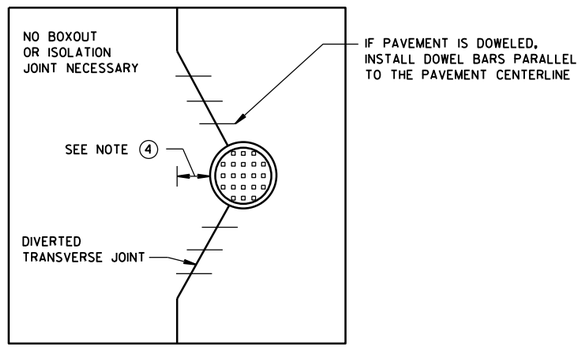
MANHOLE WITH LONGITUDINAL JOINT



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

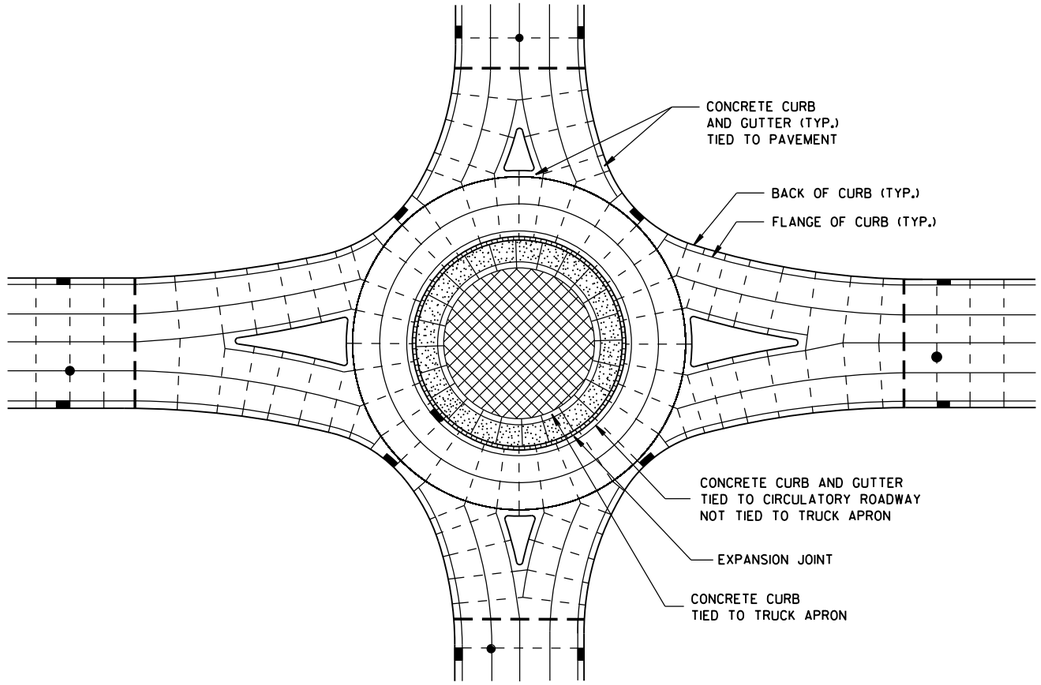
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

6

S.D.D. 13 C 18-3d

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES



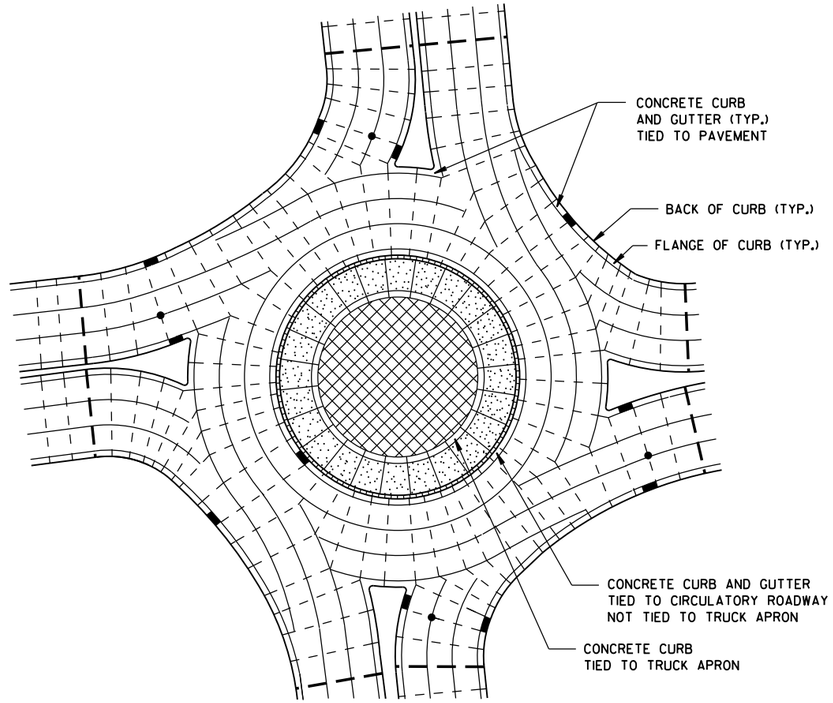
ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS

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.



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

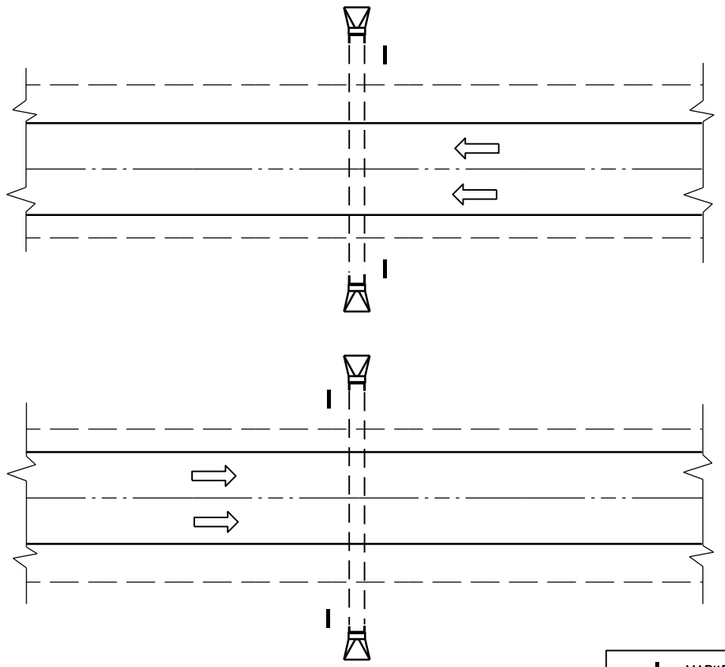
6

6

S.D.D. 13 C 18-3e

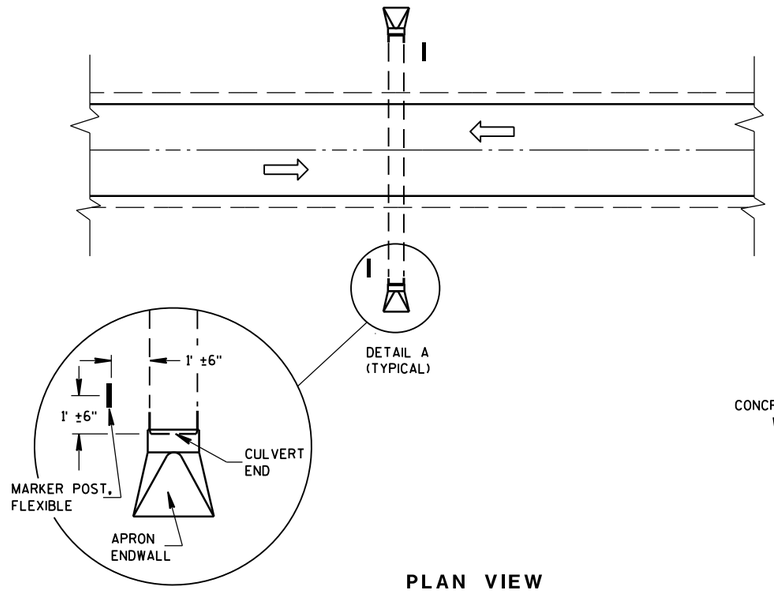
S.D.D. 13 C 18-3e

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June, 2015 DATE	/S/ Peter Kemp, P.E. PAVEMENT SUPE
FHWA	



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

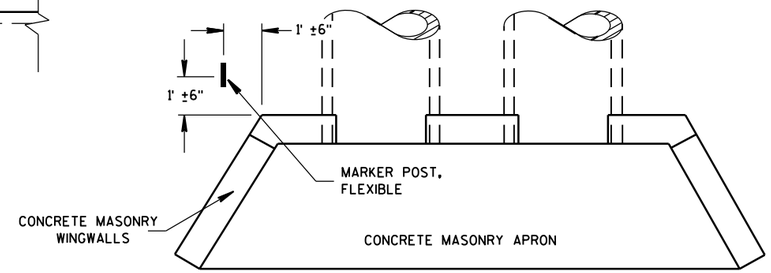
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

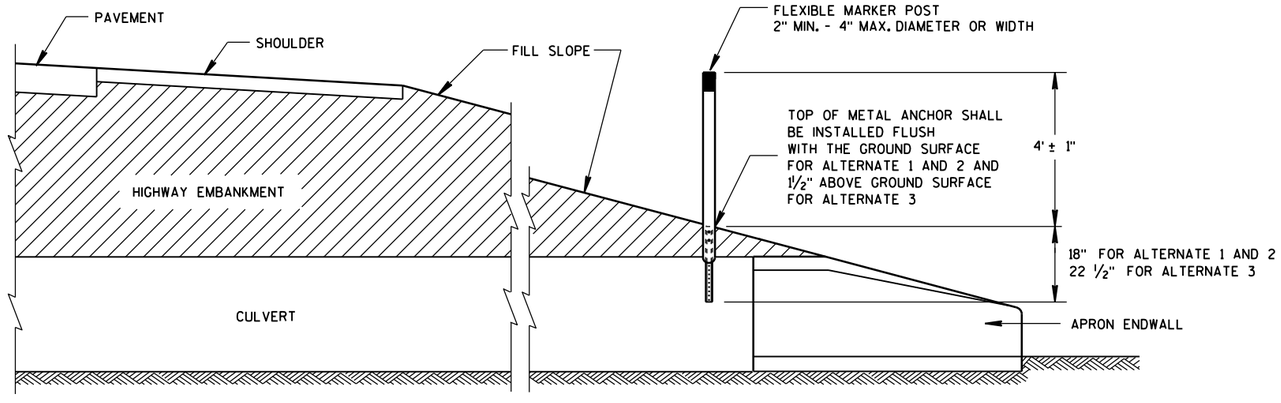
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

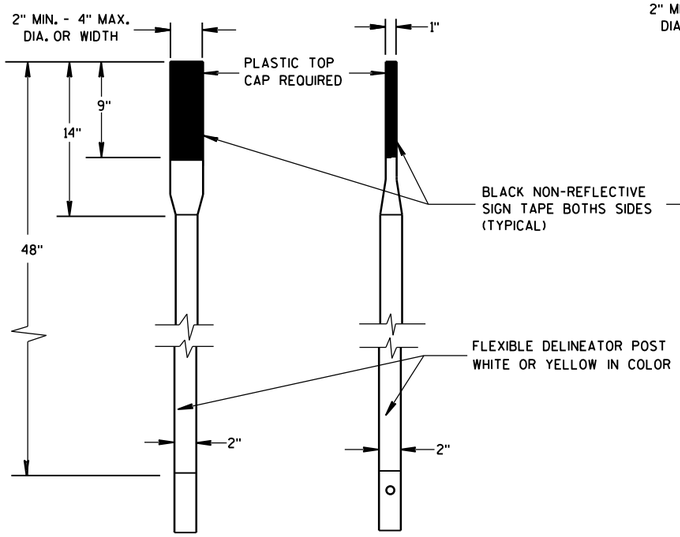
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

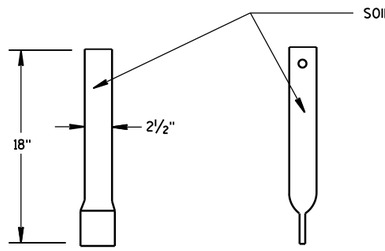
6

S.D.D. 15 A 3-2a

6

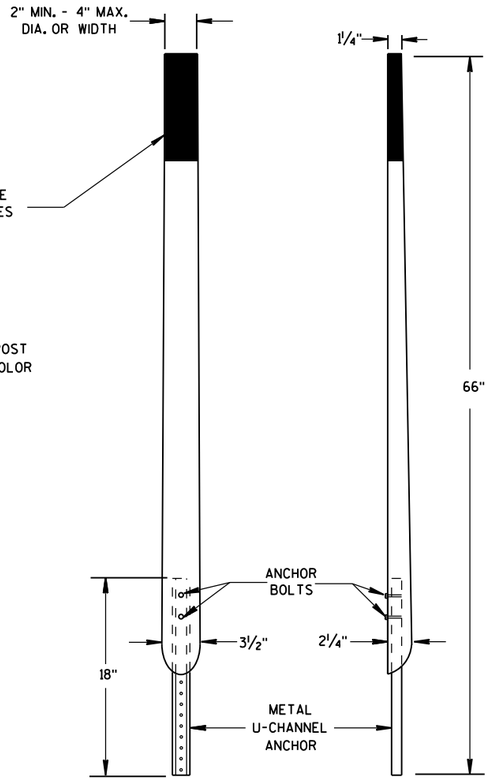
S.D.D. 15 A 3-2a





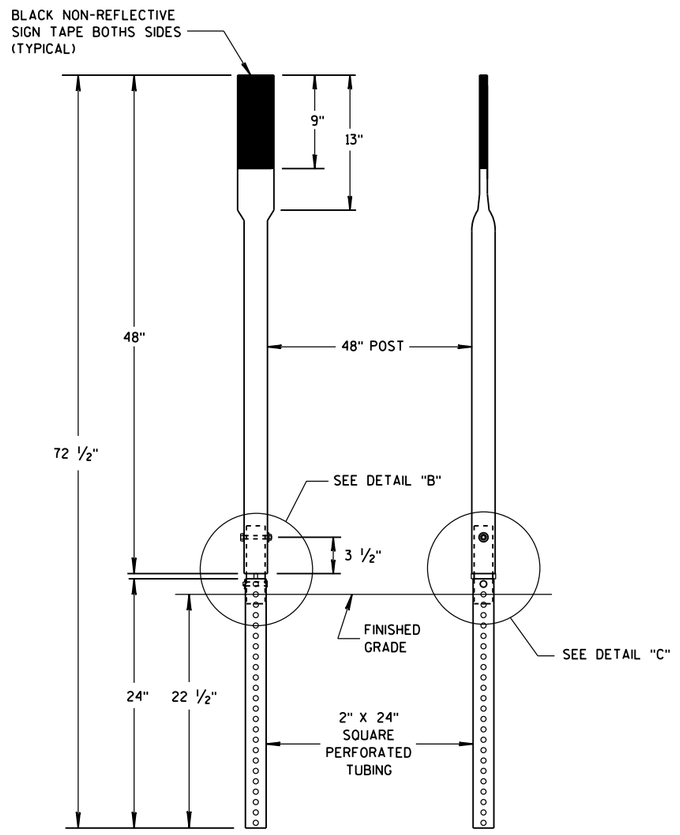
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

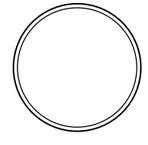
ALTERNATE 2



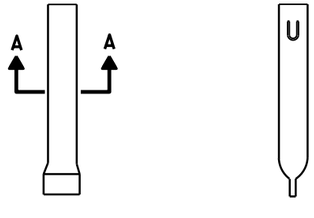
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

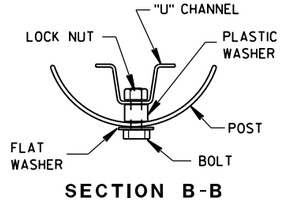


SECTION A-A

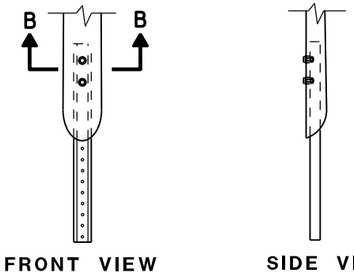


FRONT VIEW SIDE VIEW

ALTERNATE 1

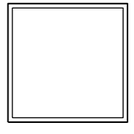


SECTION B-B

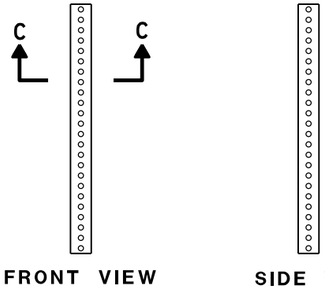


FRONT VIEW SIDE VIEW

ALTERNATE 2



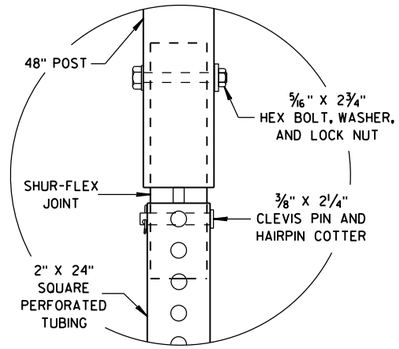
SECTION C-C



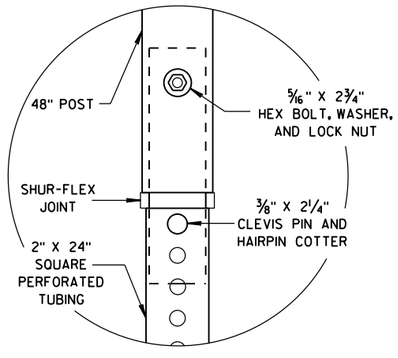
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

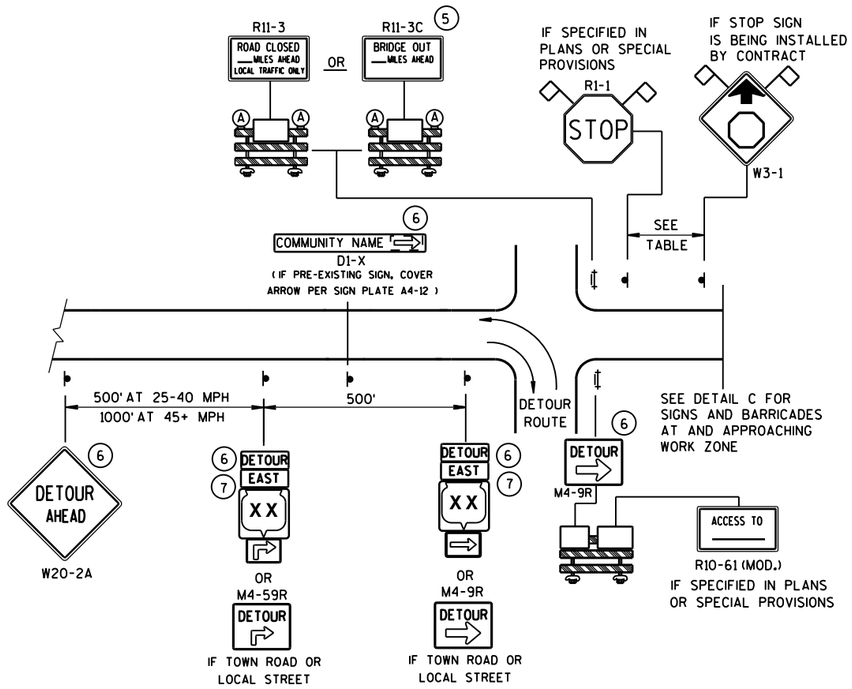
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 A 3-2b

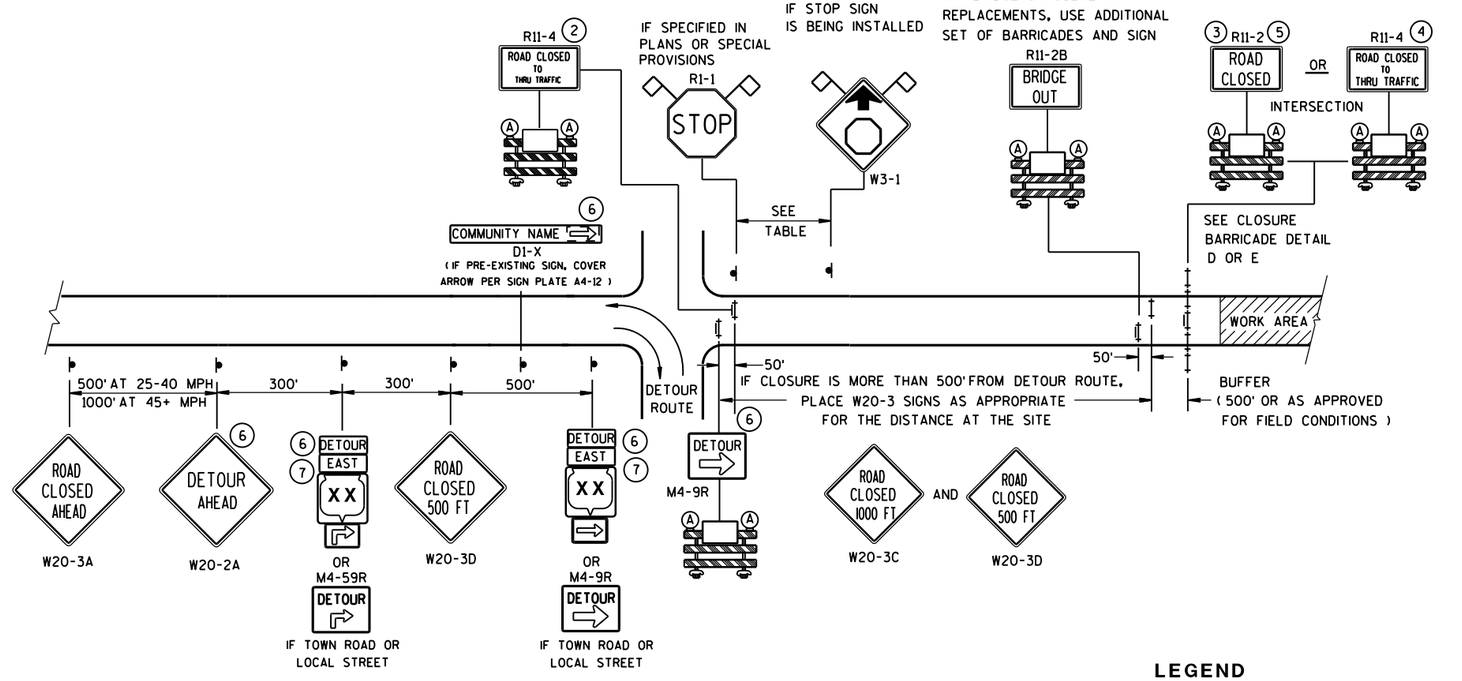
6

S.D.D. 15 A 3-2b



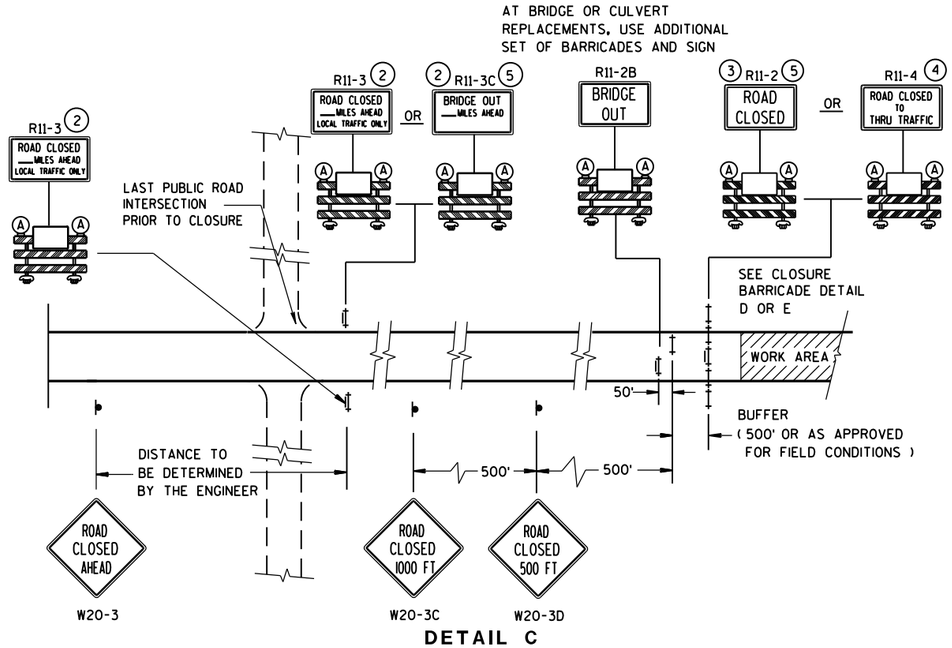
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

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)

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

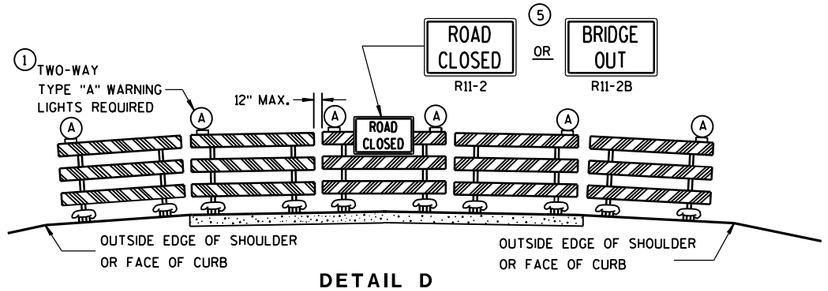
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

S.D.D. 15 C 2-6a

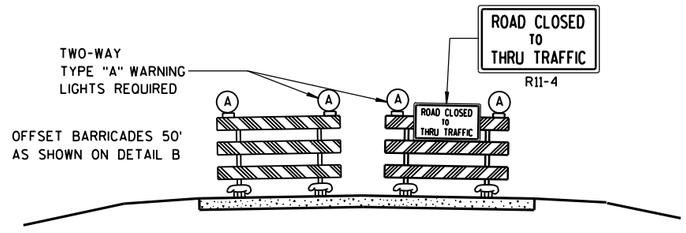
S.D.D. 15 C 2-6a



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.

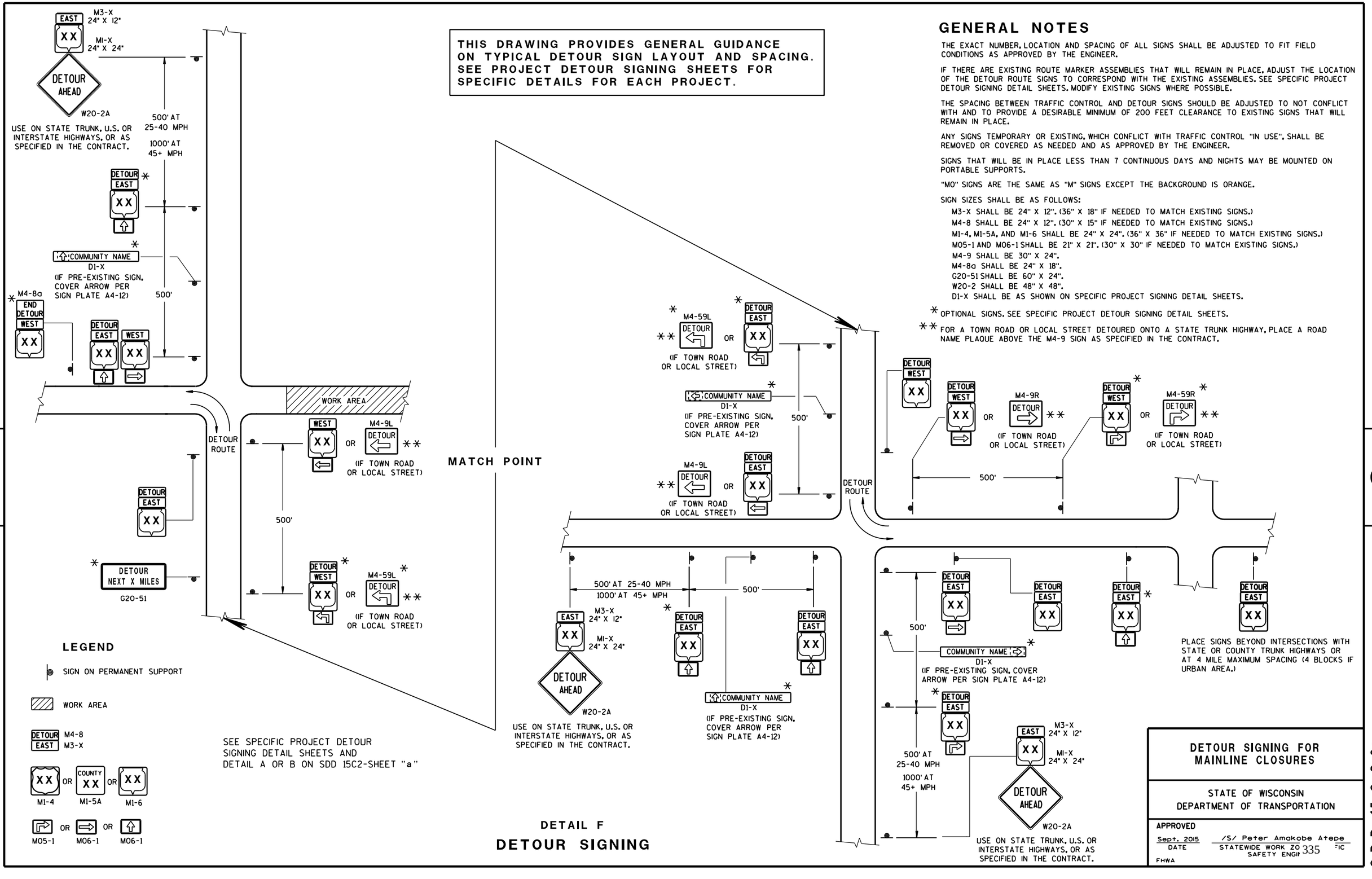
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.)
- M05-1 AND M06-1 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
- M05-1 OR M06-1 OR M06-1

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

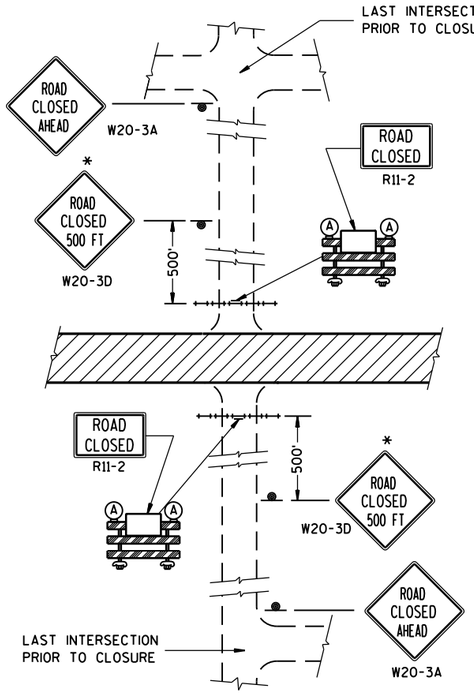
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI...

FHWA

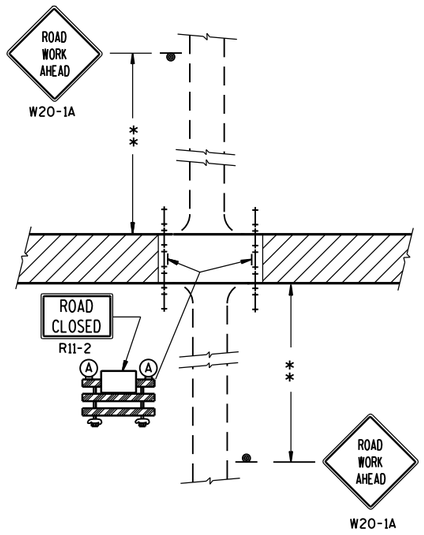
S.D.D. 15 C 2-6c

S.D.D. 15 C 2-6c



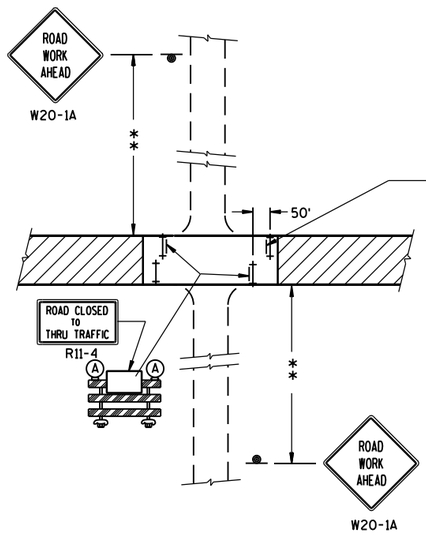
DETAIL 1

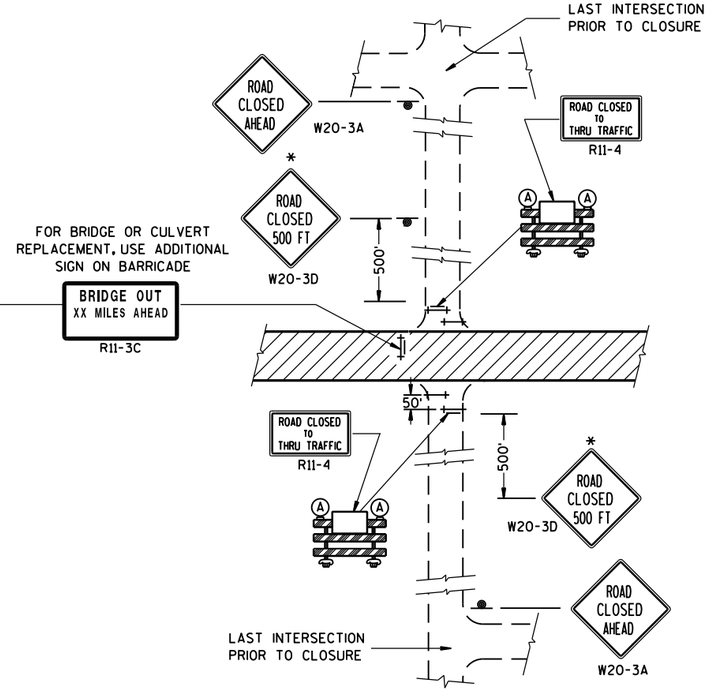
(NO ACCESS TO PROJECT)



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

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.

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. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

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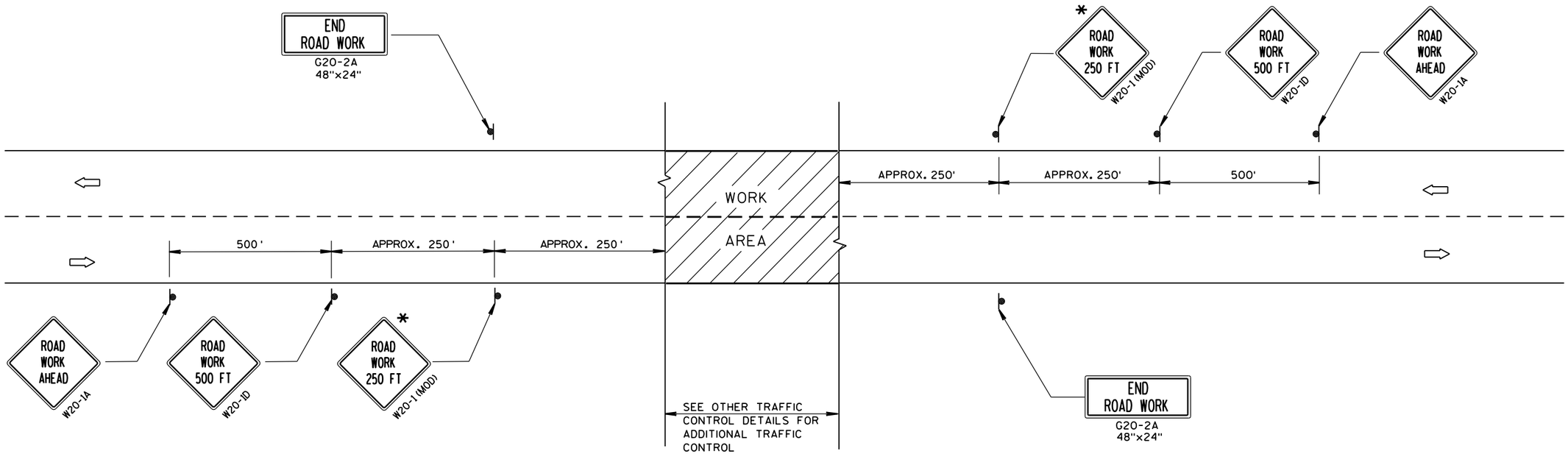
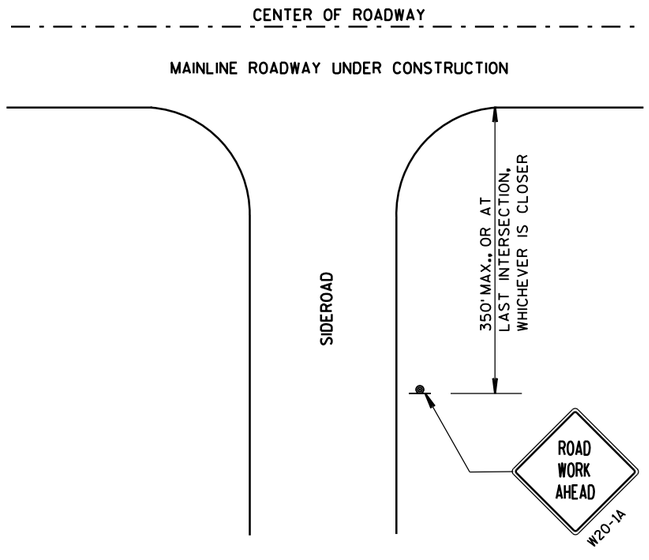
S.D.D. 15 C 3-3



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 DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

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

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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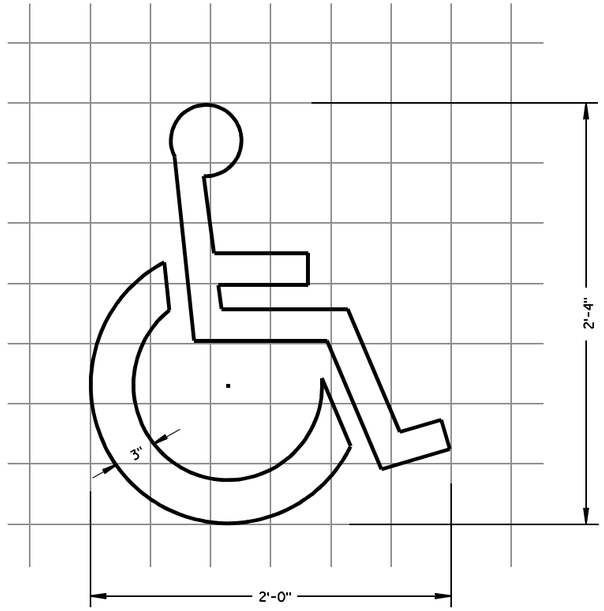
S.D.D. 15 C 5-3

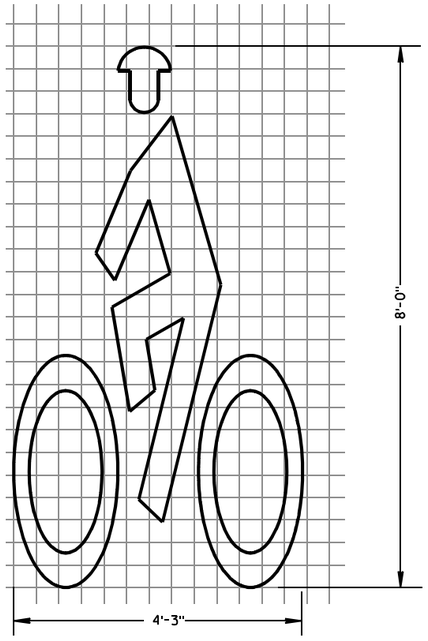
GENERAL NOTES

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.

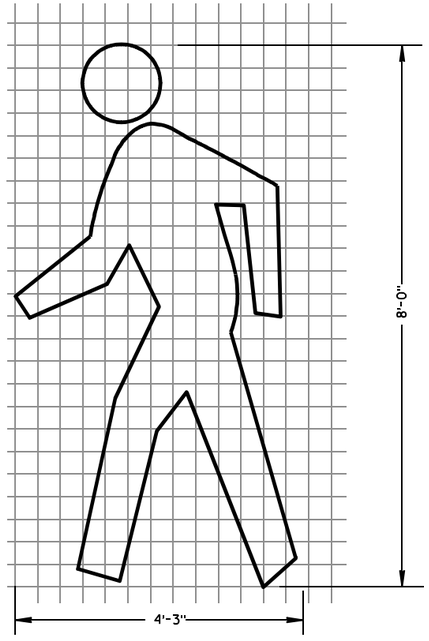
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

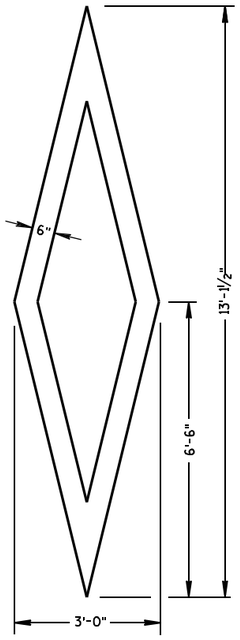




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

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S.D.D. 15 C 7-12a

S.D.D. 15 C 7-12a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 DATE

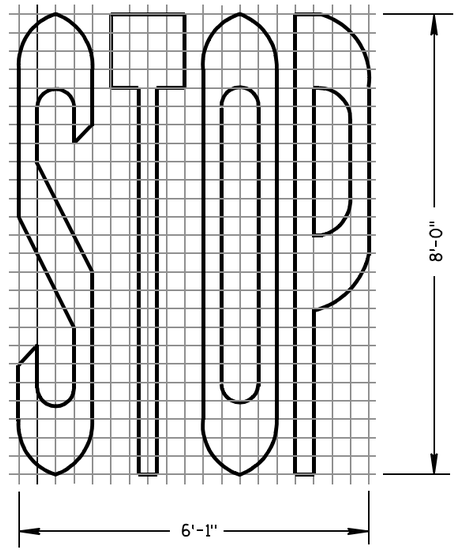
/S/ Thomas N Nathan
STATE TRAFFIC ENGINEER

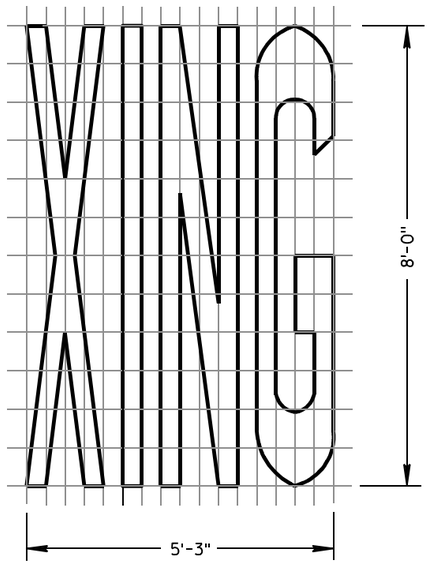
FHWA

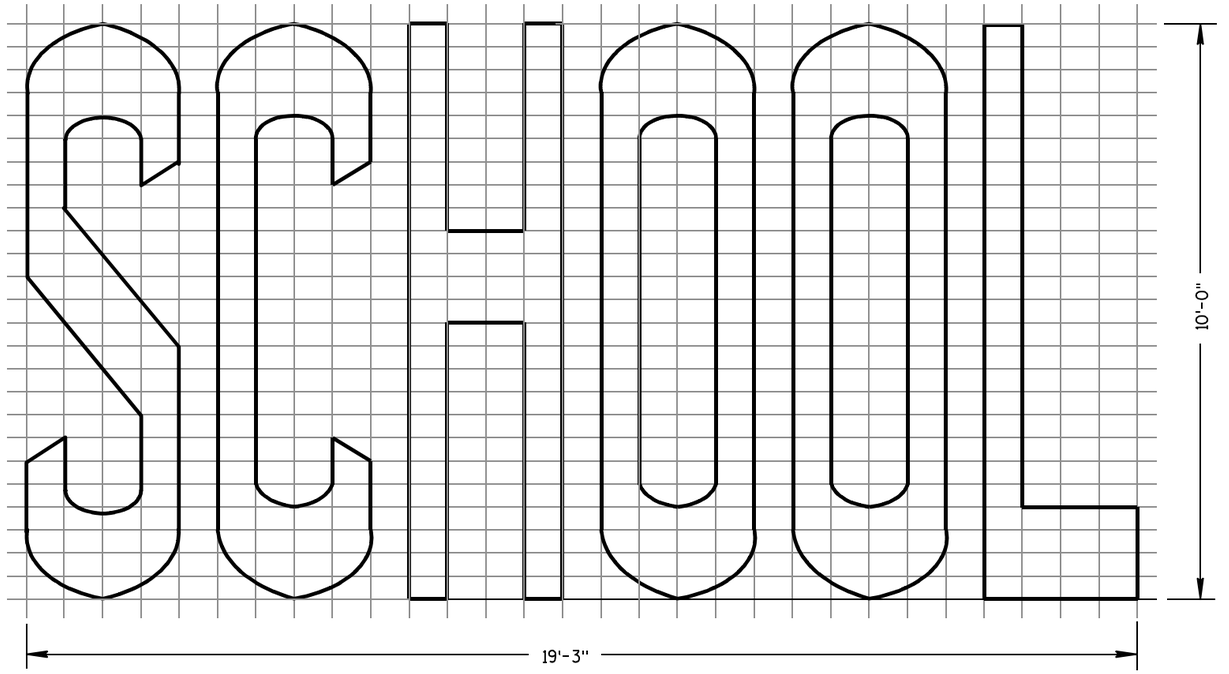
GENERAL NOTES

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.

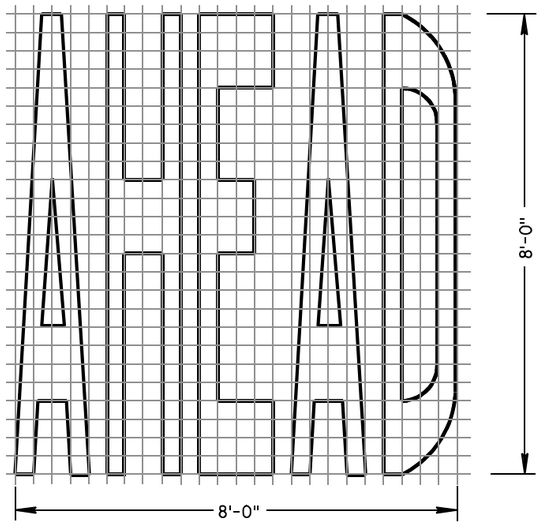
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

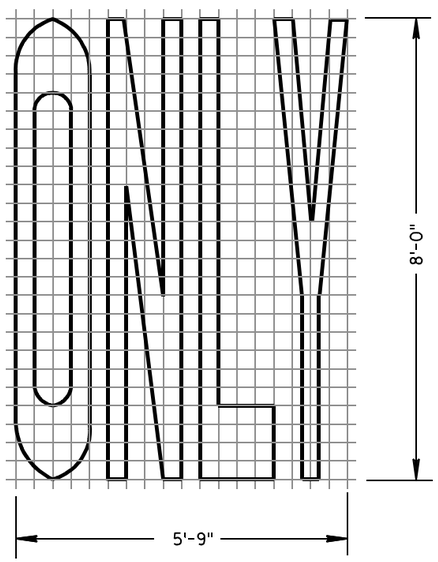


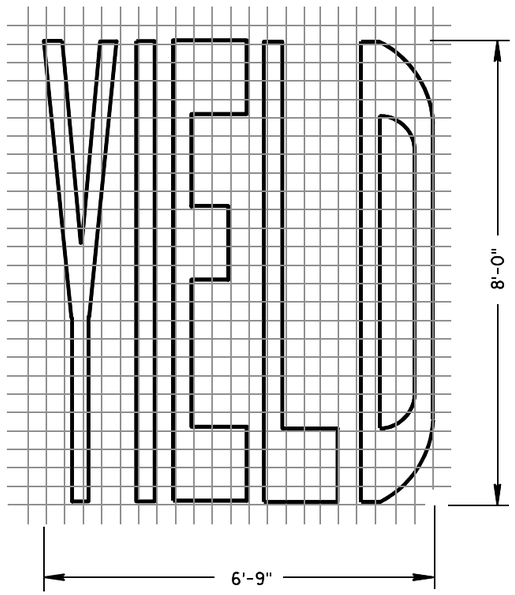


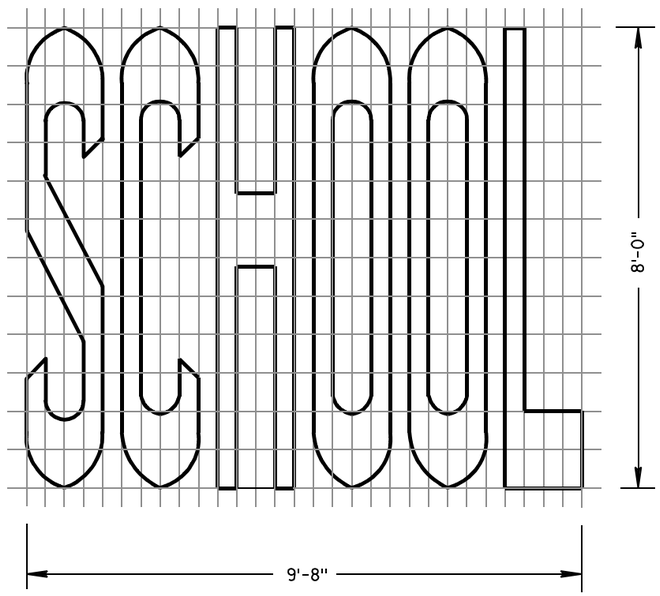


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 7-12b

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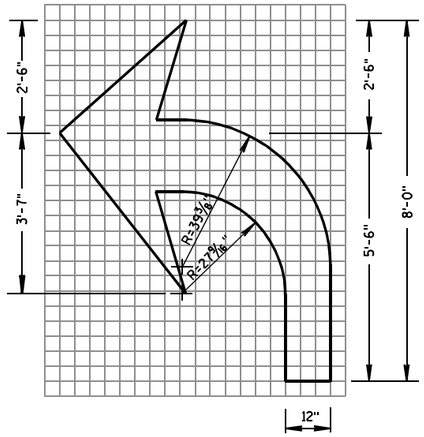
S.D.D. 15 C 7-12b



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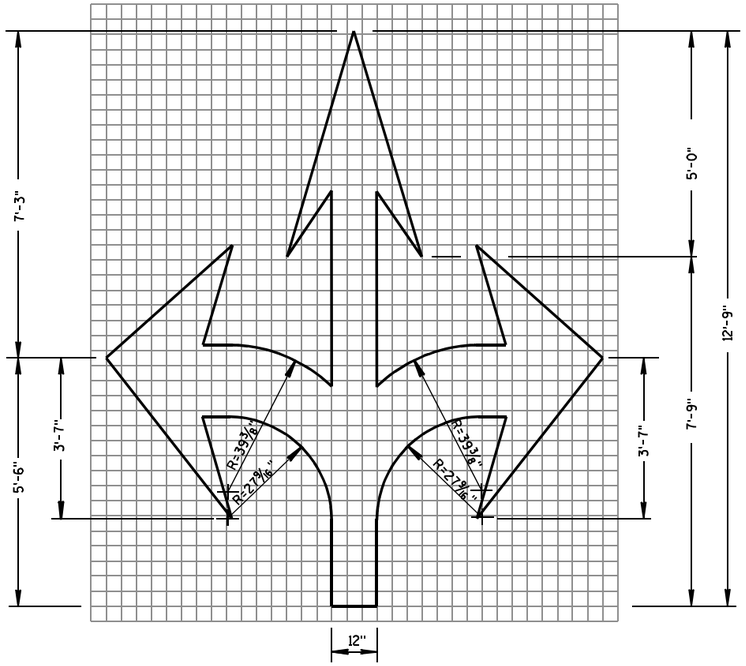
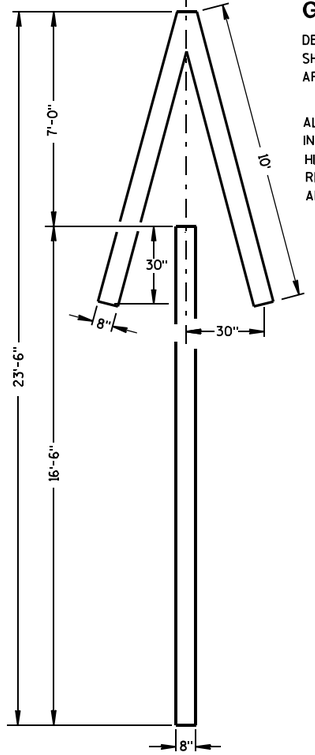


TYPE 6

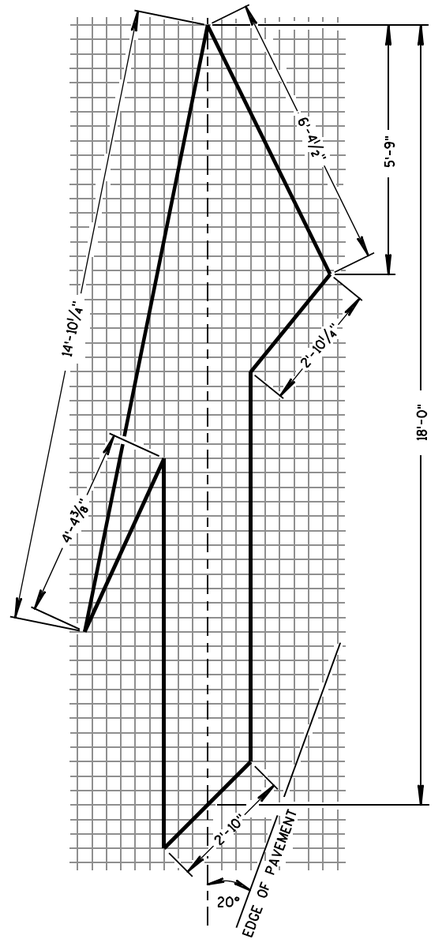


TYPE 4

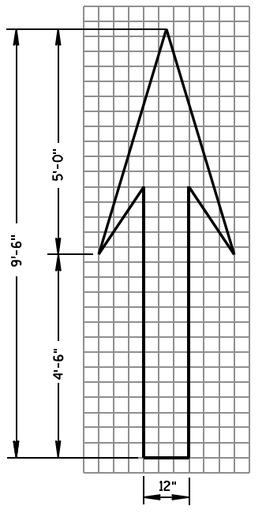
GENERAL NOTES

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.

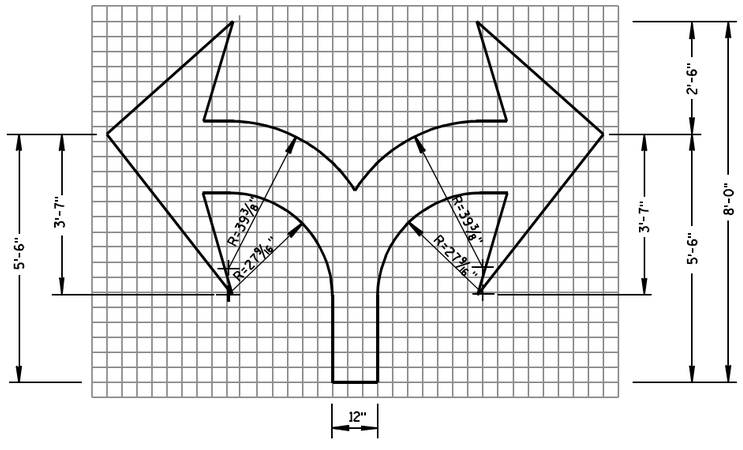
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 5 LANE DROP ARROW



TYPE 1



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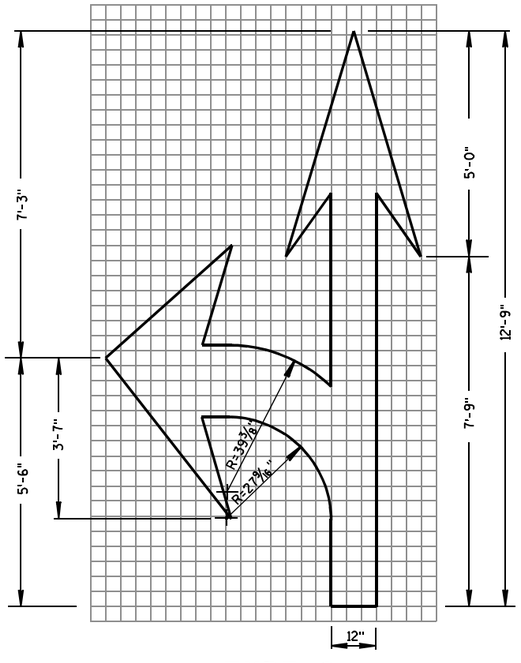

TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 7-12c

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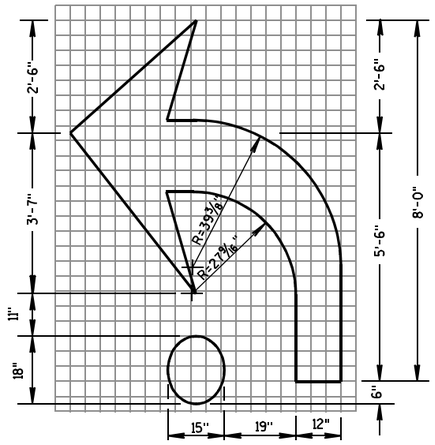
S.D.D. 15 C 7-12c

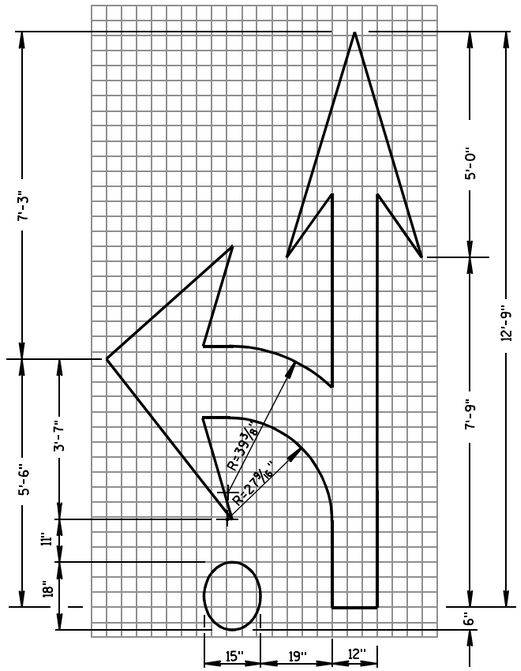
GENERAL NOTES

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.

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 2R



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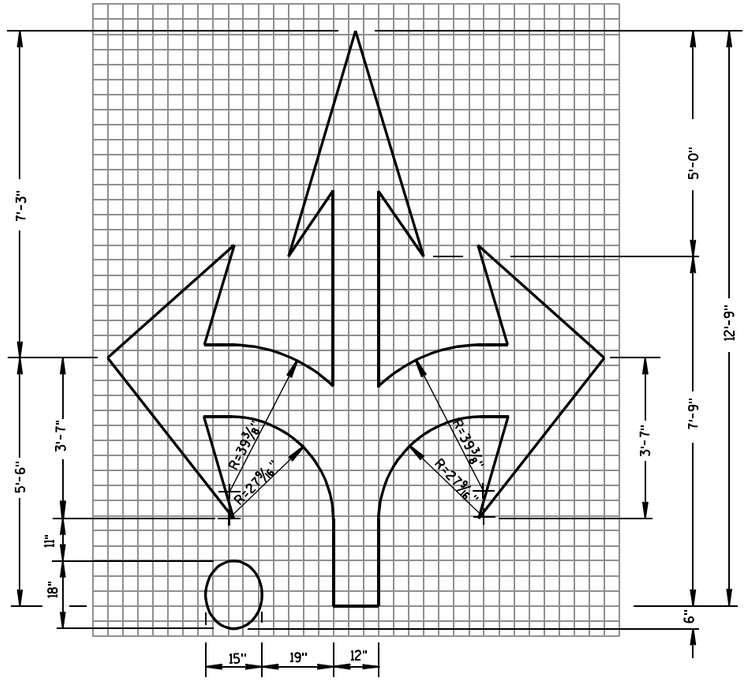
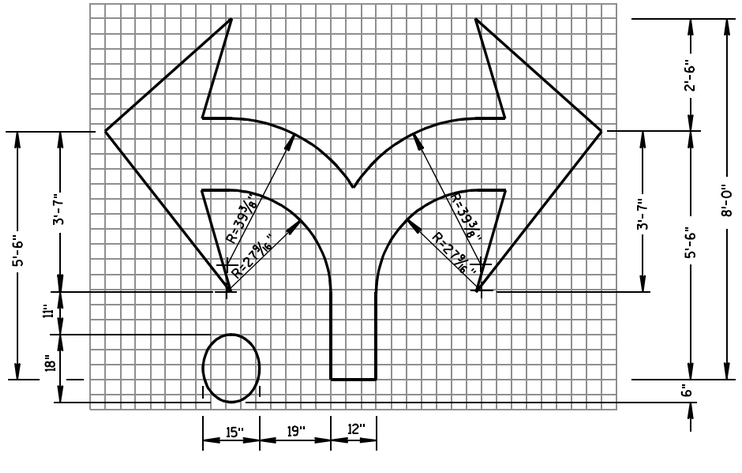


TYPE 6R



TYPE 7R

ROUNDABOUT ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurm — STATE TRAFFIC ENGINEER

FHWA

S.D.D. 15 C 7-12d

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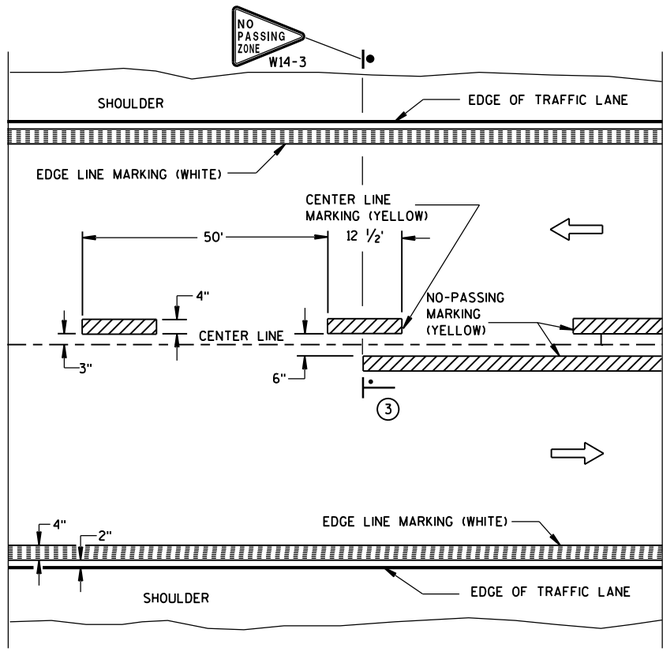
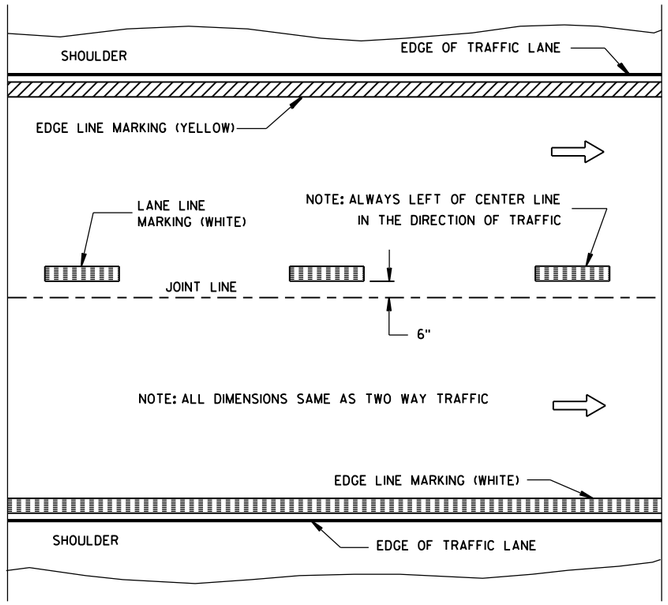
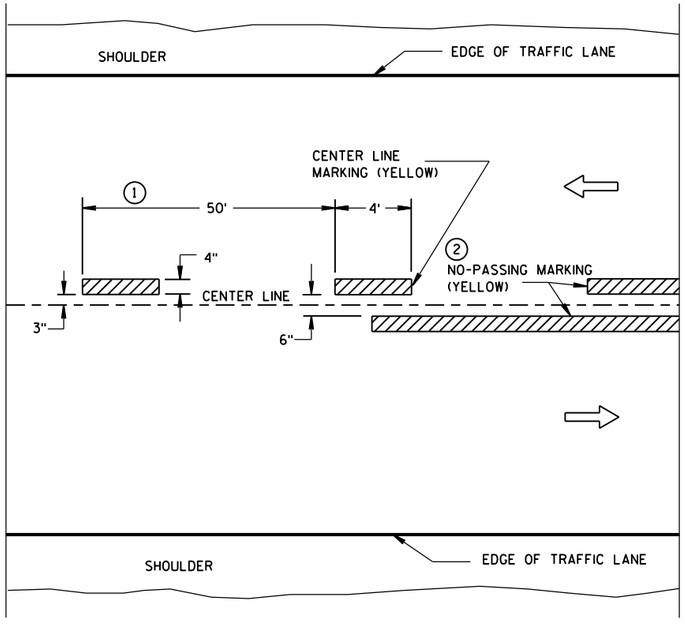


TWO WAY TRAFFIC

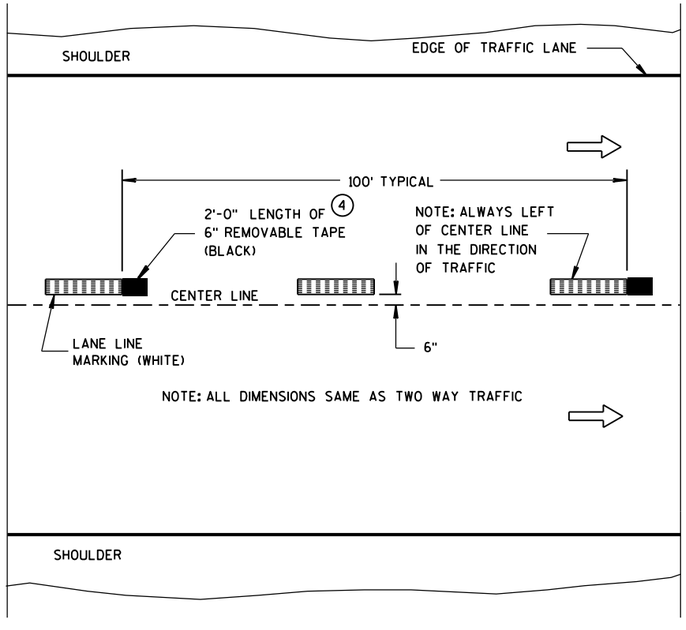


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

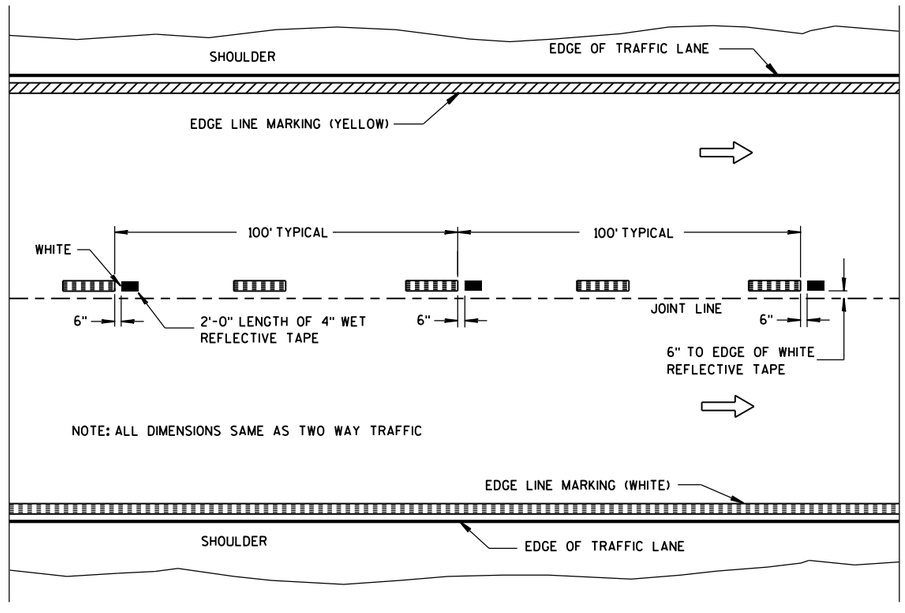
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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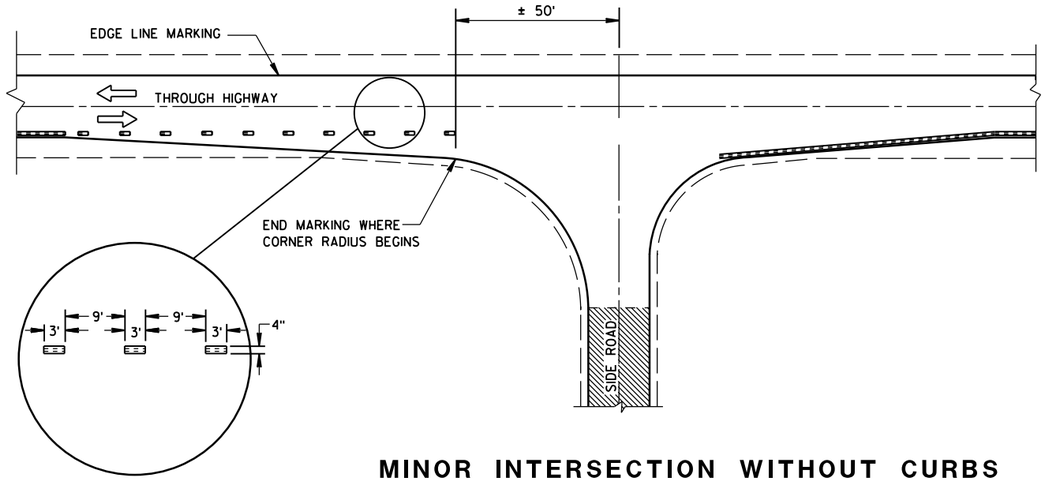
S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

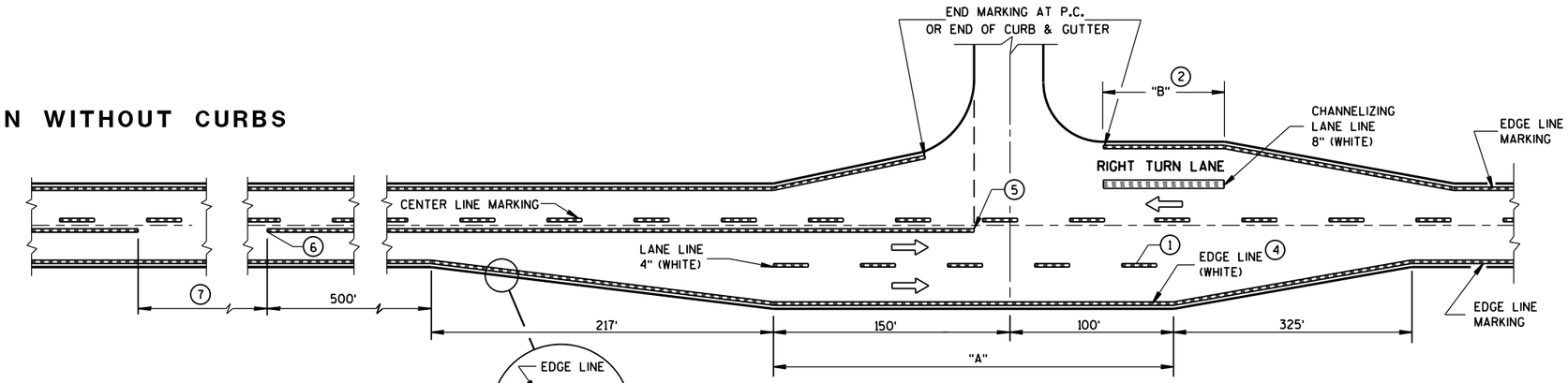
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

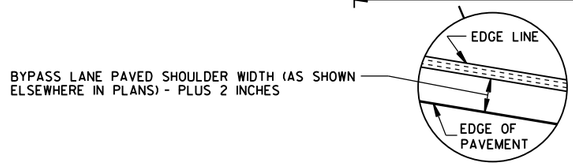
(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

(7)

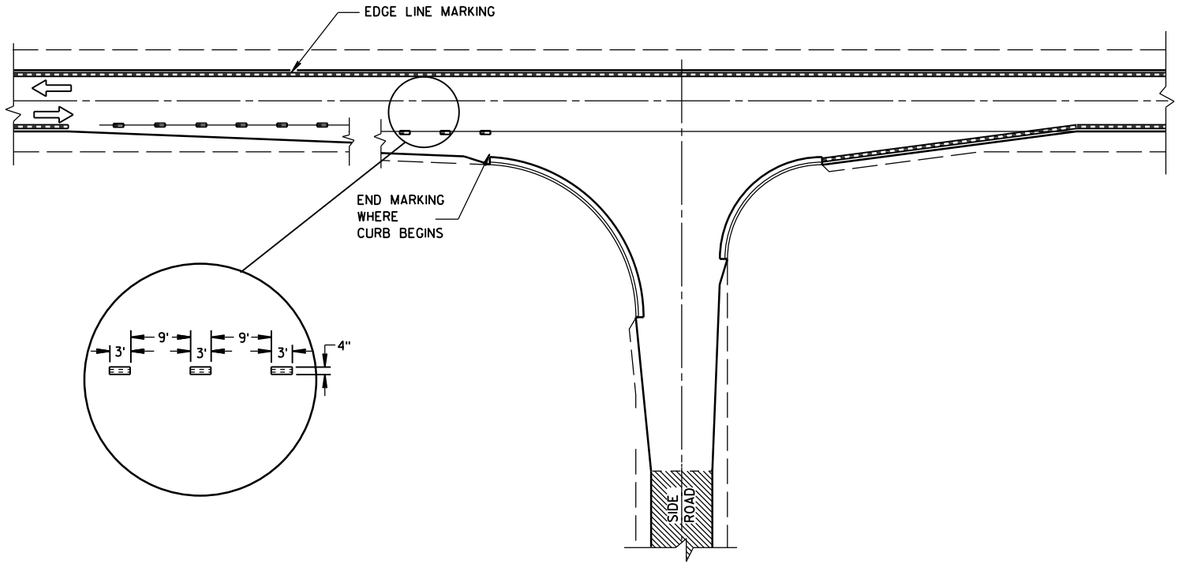
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792





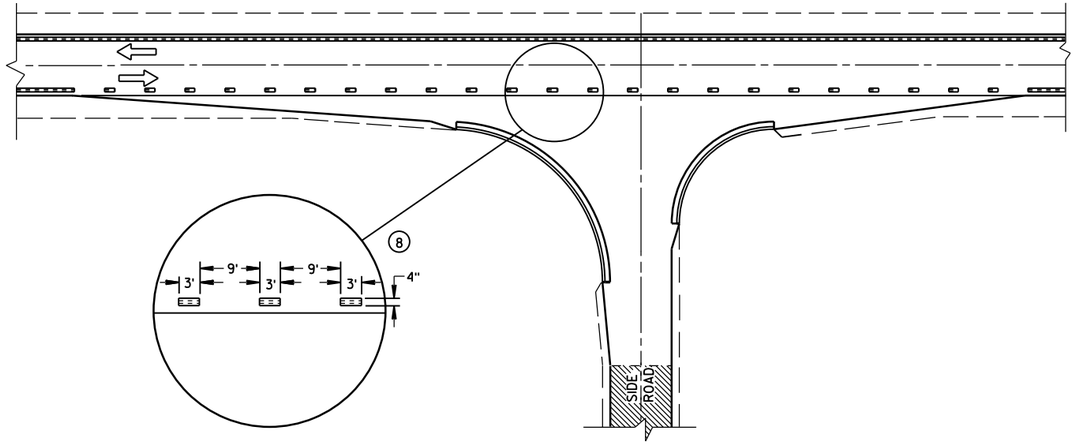
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 8-16b

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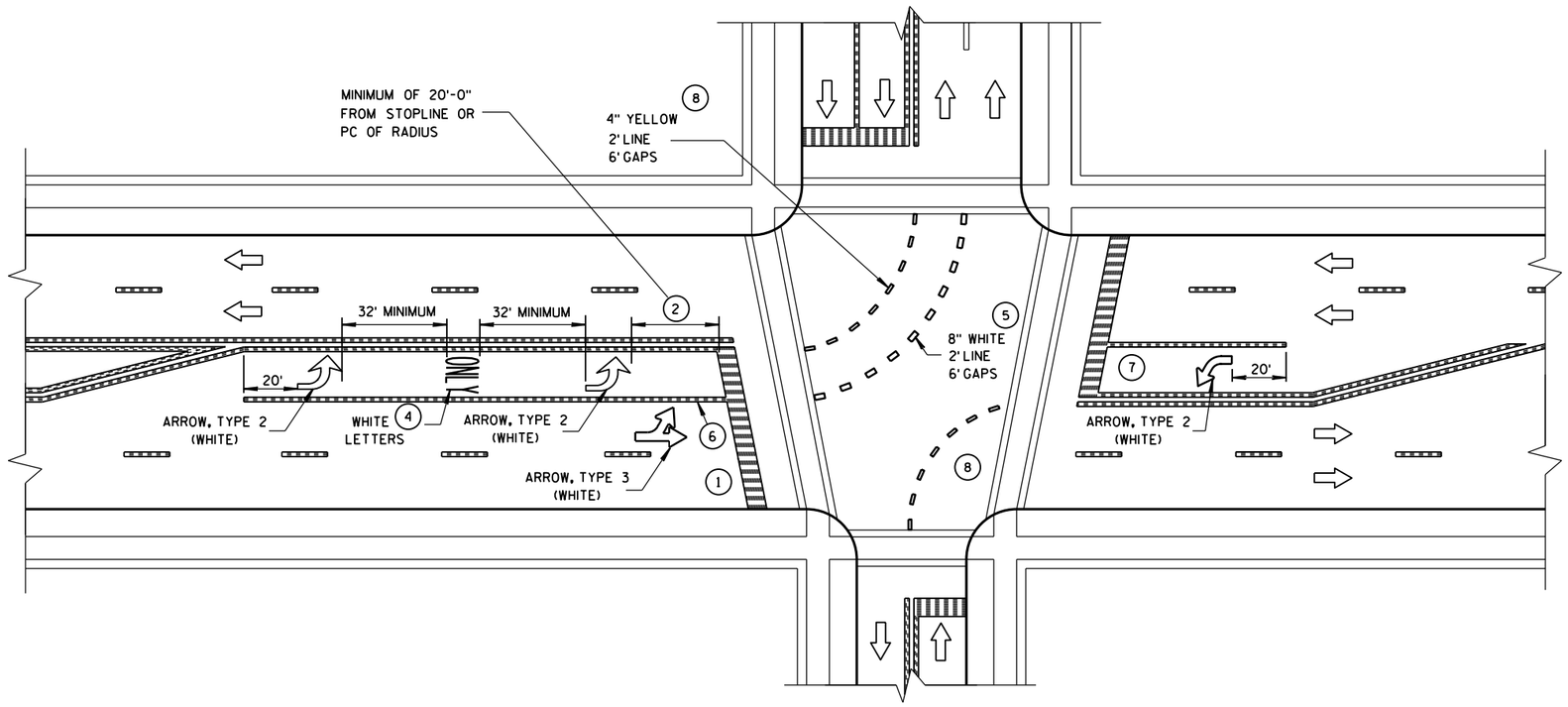
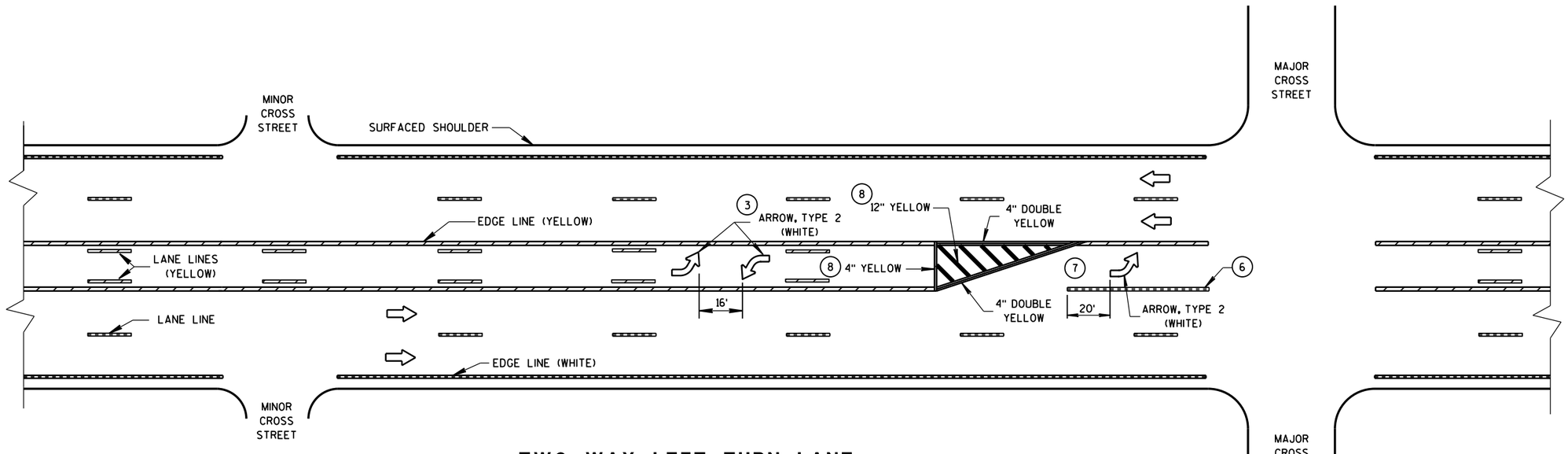
S.D.D. 15 C 8-16b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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S.D.D. 15 C 8-16e

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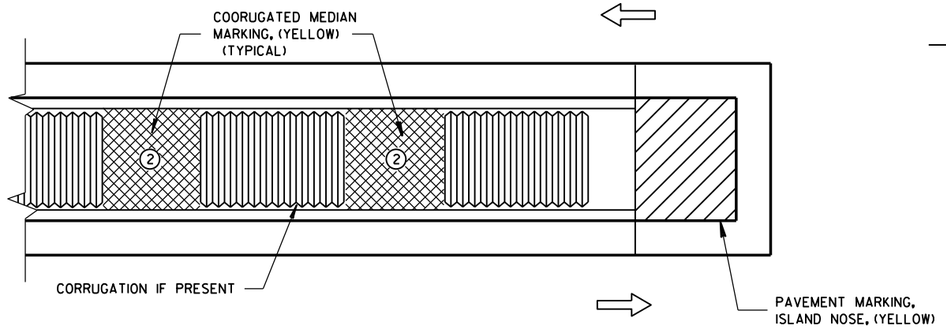
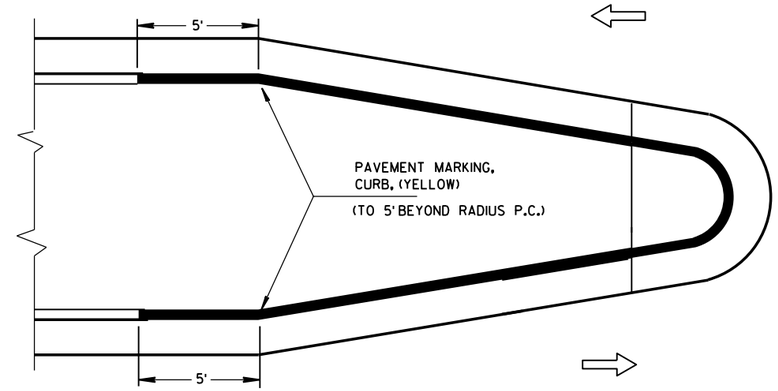
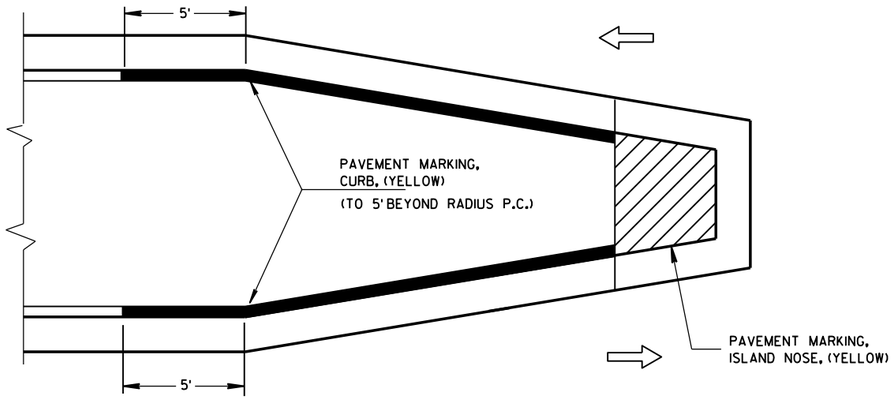
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

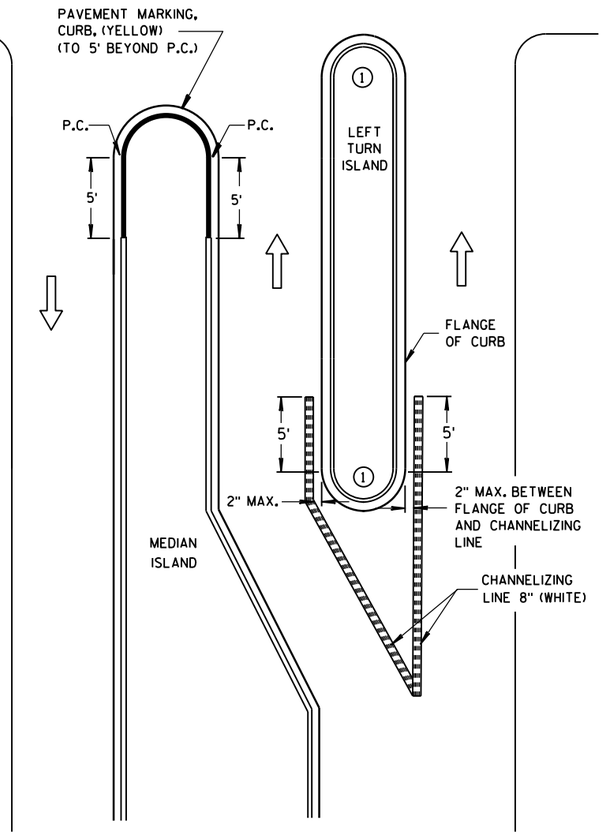


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

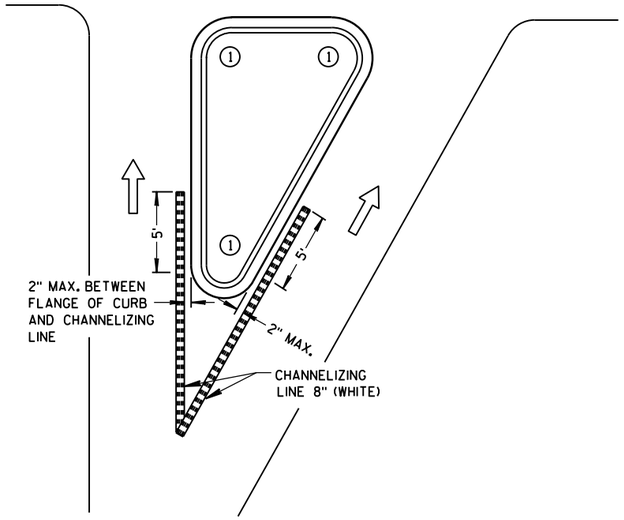


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-16f

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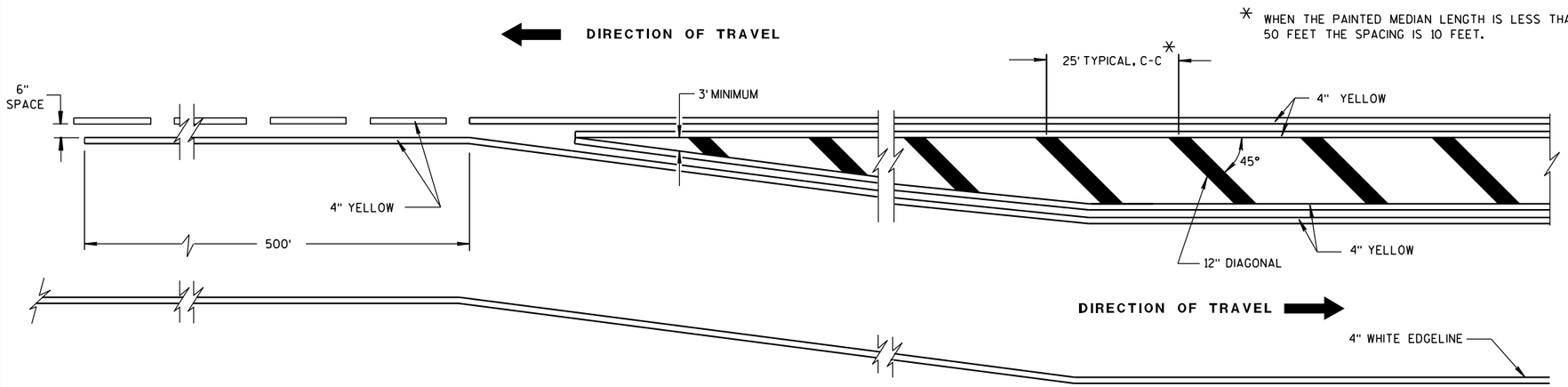
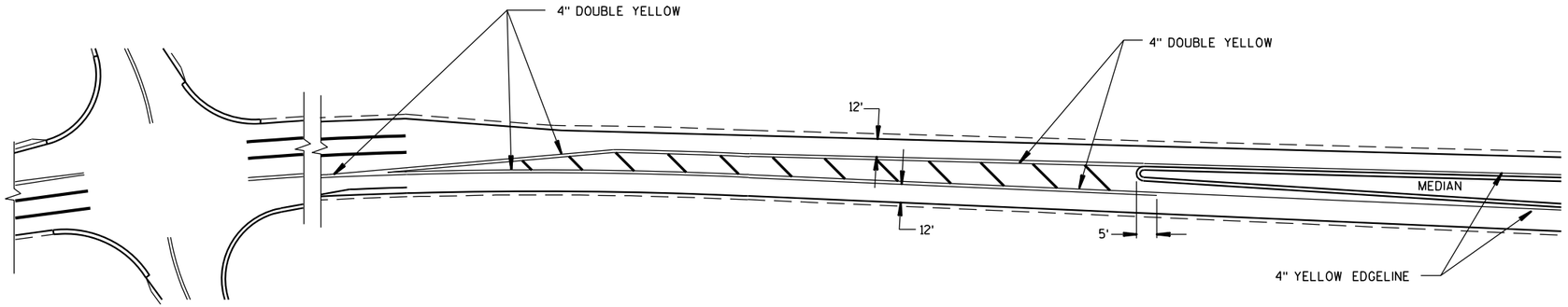
S.D.D. 15 C 8-16f



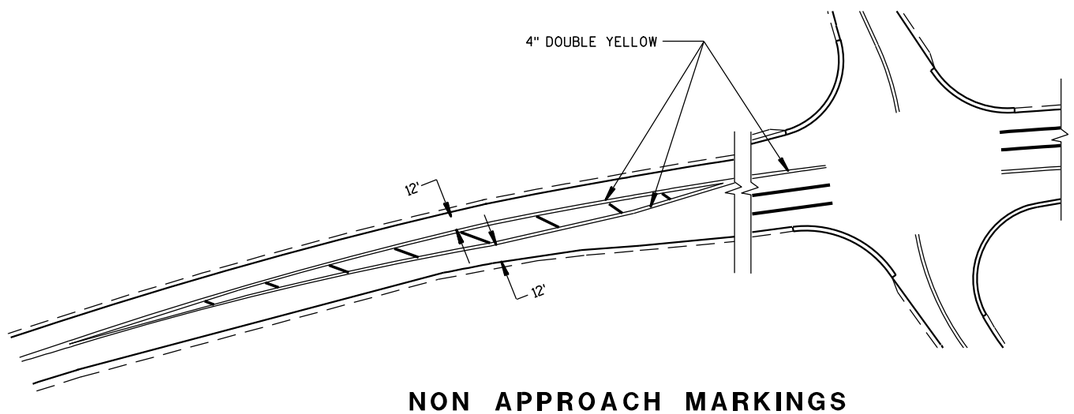
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER
FHWA	

6

S.D.D. 15 C 18-3

GENERAL NOTES

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

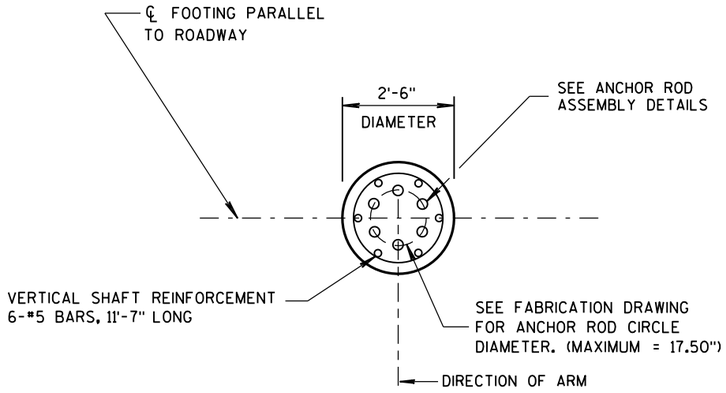
THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

FORM ALL EXPOSED CONCRETE CORNERS WITH ¾" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

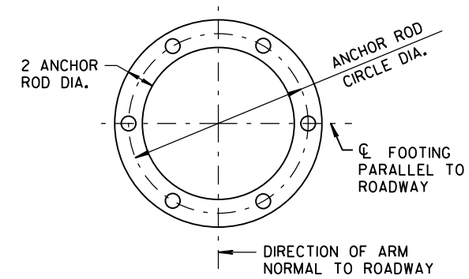
ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554, GRADE 55	fy=55,000 p.s.i.
ASTM A563A HEAVY HEX NUTS, AND ASTM F436 WASHERS.	
PLATES, ASTM A709, GRADE 36	fy=36,000 p.s.i.

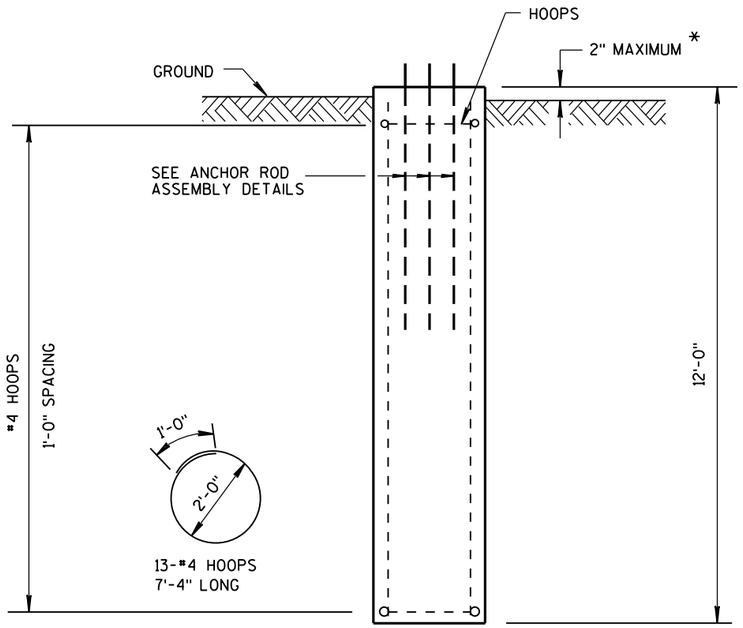
THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



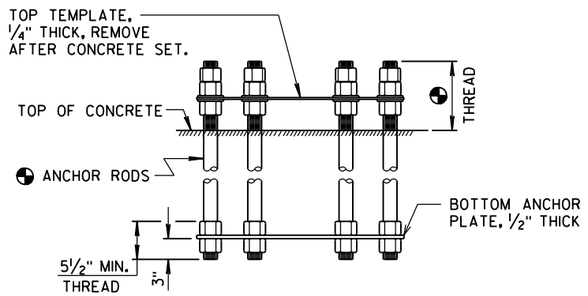
PLAN VIEW



TOP TEMPLATE AND BOTTOM ANCHOR PLATE



ELEVATION VIEW



ANCHOR ROD ASSEMBLY DETAILS

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.

⊕ MINIMUM OF 6 ANCHOR RODS, EXACT NUMBER, SIZE, DIMENSION AND ORIENTATION AS SHOWN ON FABRICATION DRAWING.

CONCRETE - 2.2 C.Y. PER FOOTING
H.S. REINFORCEMENT - 136 LBS. PER FOOTING

30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2016 — DATE
/S/ Vu Thao — WIND LOADED STRU PROGRAM LEAD
FHWA

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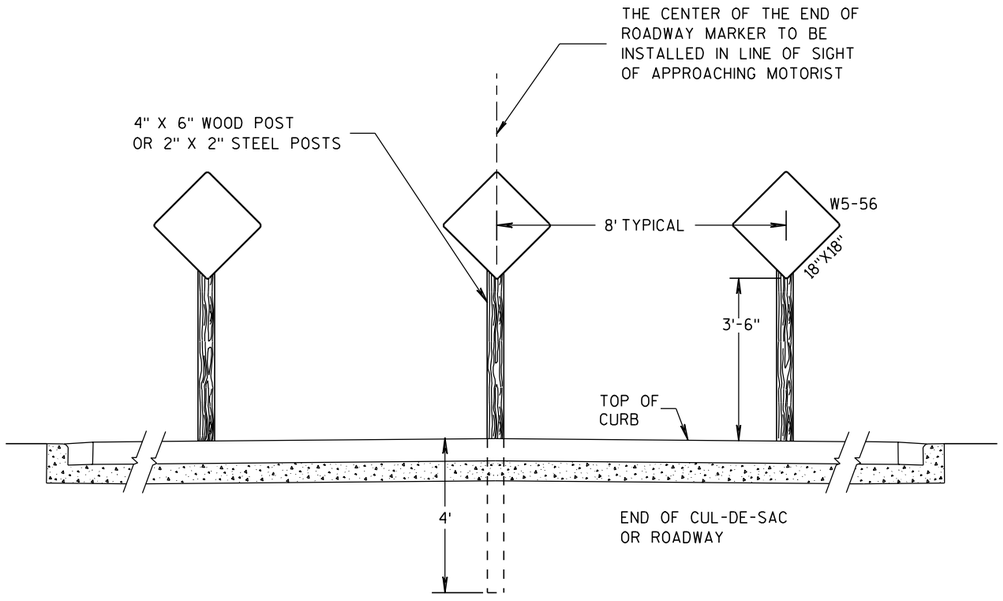
S.D.D. 15 C 23-3

GENERAL NOTES

SIGN LOCATIONS SHOWN ARE TYPICAL PLACEMENT AND MAY BE ADJUSTED BY THE ENGINEER AS FIELD CONDITIONS DICTATE.

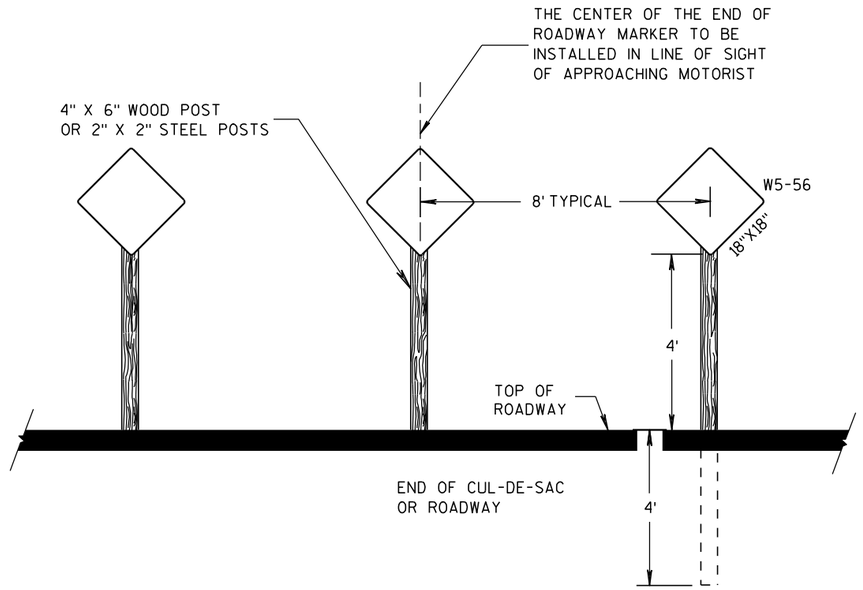
THE MINIMUM NUMBER OF END-OF-ROADWAY SIGNS ARE THREE (AS SHOWN). ADDITIONAL END-OF-ROADWAY SIGNS MAY BE INSTALLED AS FIELD CONDITIONS DICTATE. (SEE SIGNING PLAN).

WHEN BEAMGUARD IS REQUIRED, PLACE END-OF-ROADWAY SIGNING BEHIND BEAMGUARD.



TYPICAL URBAN SIGN INSTALLATION

(WITH CURB & GUTTER)



TYPICAL RURAL SIGN INSTALLATION

(WITHOUT CURB & GUTTER)

END-OF-ROADWAY SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/1/2011 — DATE

/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 26-2

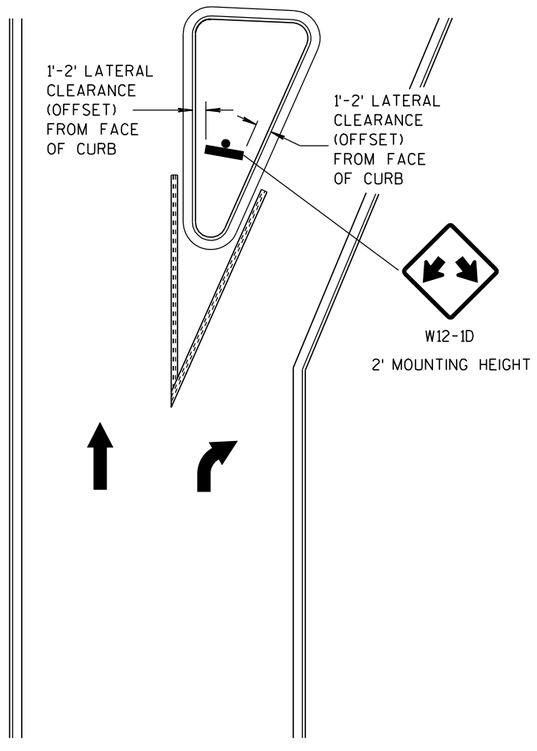
6

S.D.D. 15 C 26-2

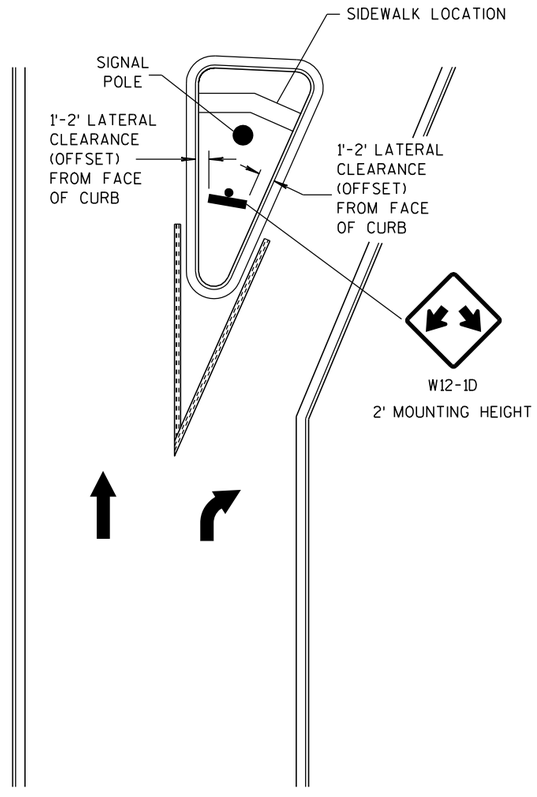
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

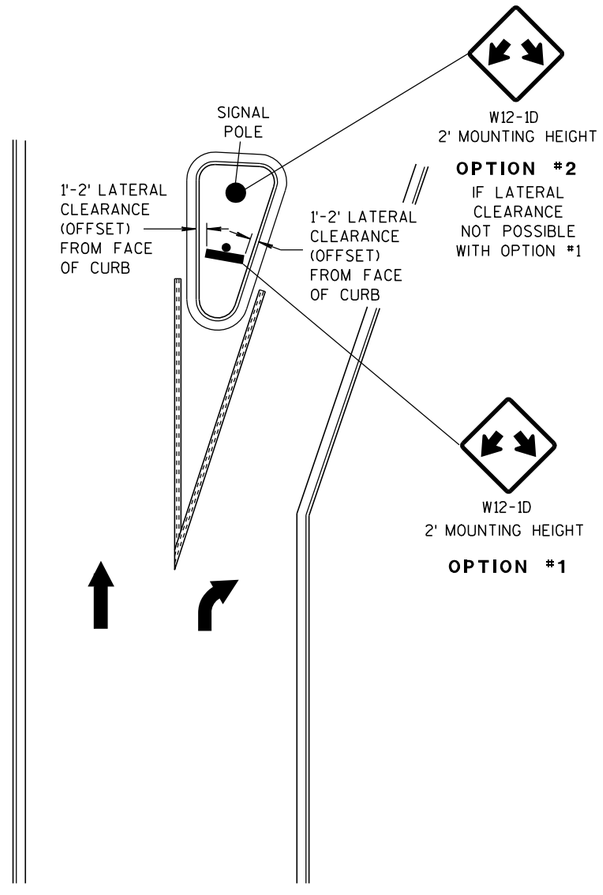
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



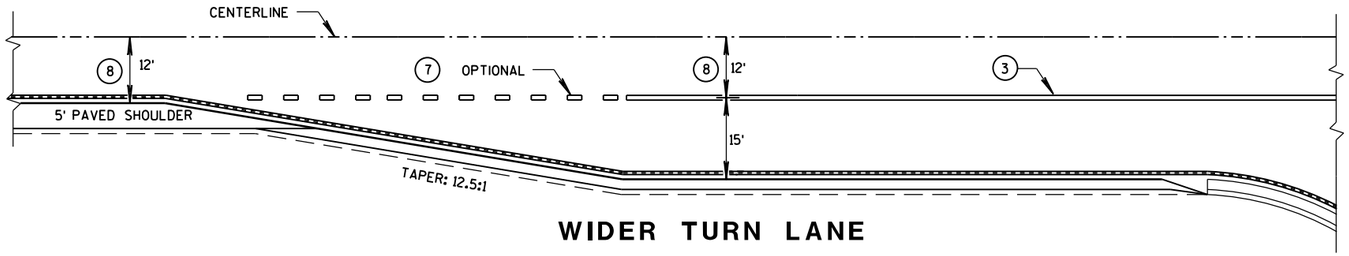
LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



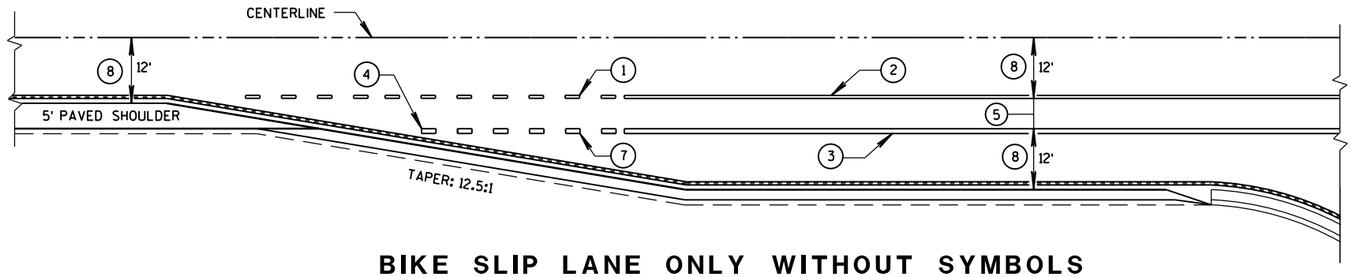
SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

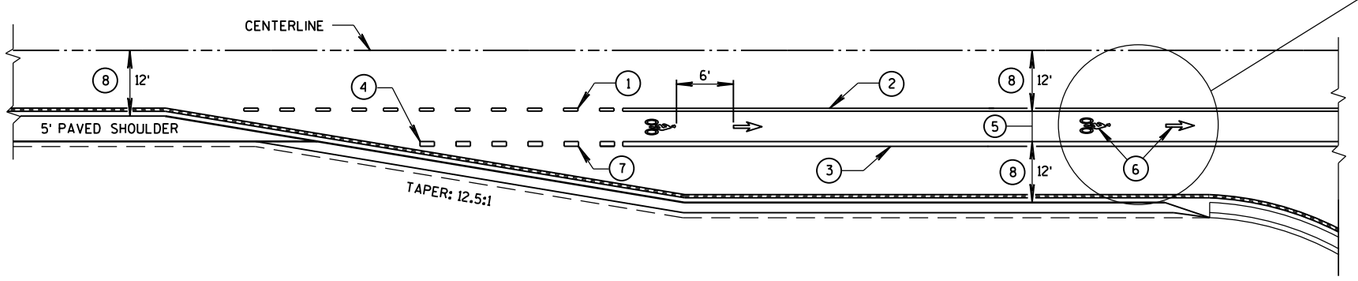
DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothem STATE TRAFFIC ENGINEER
FHWA	349 IGN



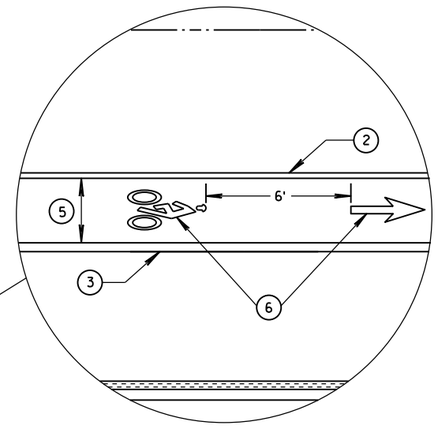
WIDER TURN LANE



BIKE SLIP LANE ONLY WITHOUT SYMBOLS



BIKE LANE WITH SYMBOLS



GENERAL NOTES

1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMMODATION FOR CONCRETE PAVEMENT IS 5' WIDE. BIKE ACCOMMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4', 5' AT ≥ 45 MPH.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.

6

S.D.D. 15 C 29-3a

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

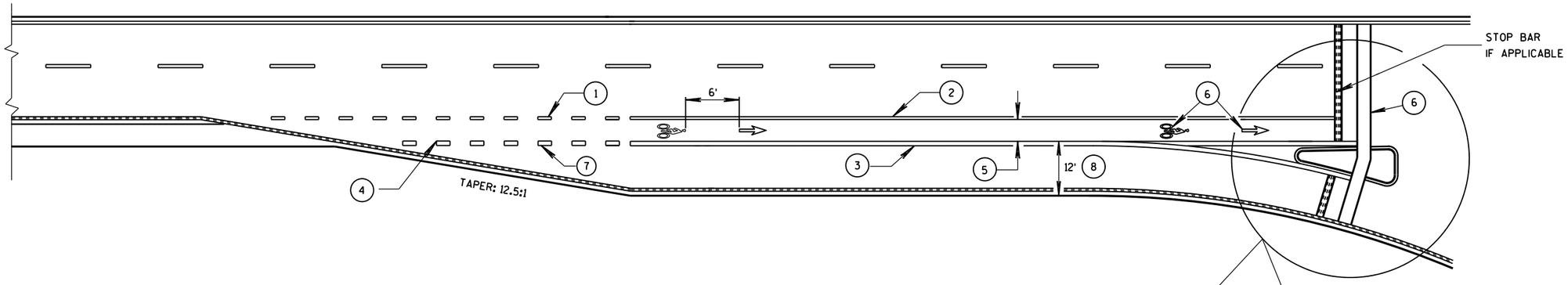
FHWA

6

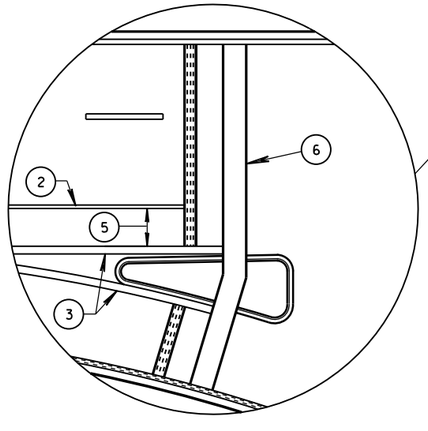
S.D.D. 15 C 29-3a

GENERAL NOTES

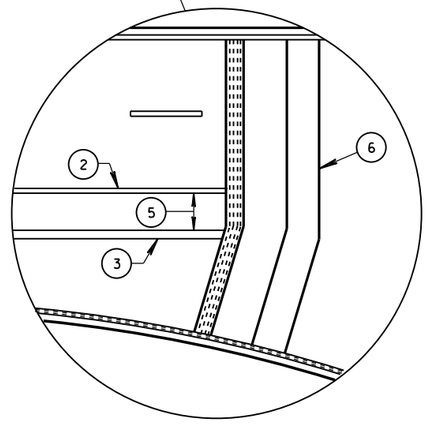
1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. 5' TYPICAL.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.



BIKE LANE - 4-LANE DIVIDED WITH RIGHT TURN LANE



4 LANE DIVIDED WITH ISLAND



4 LANE DIVIDED WITHOUT ISLAND

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 29-3b

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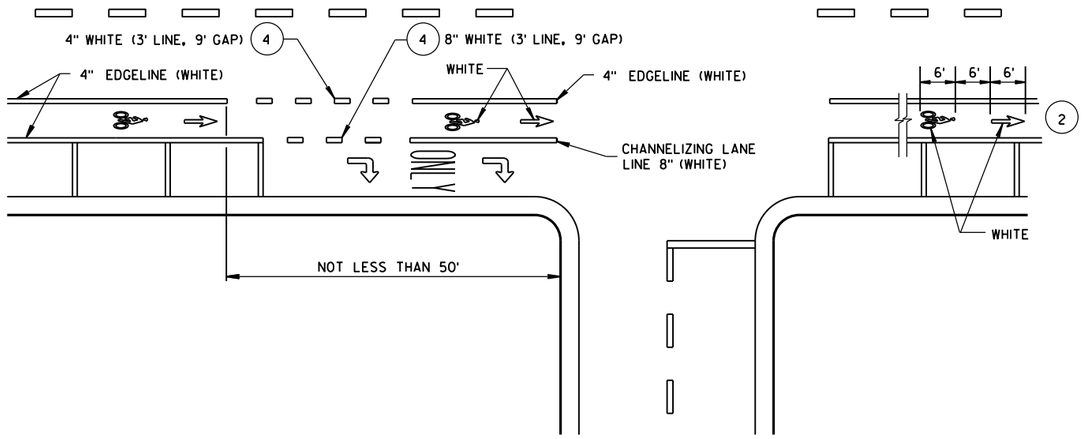
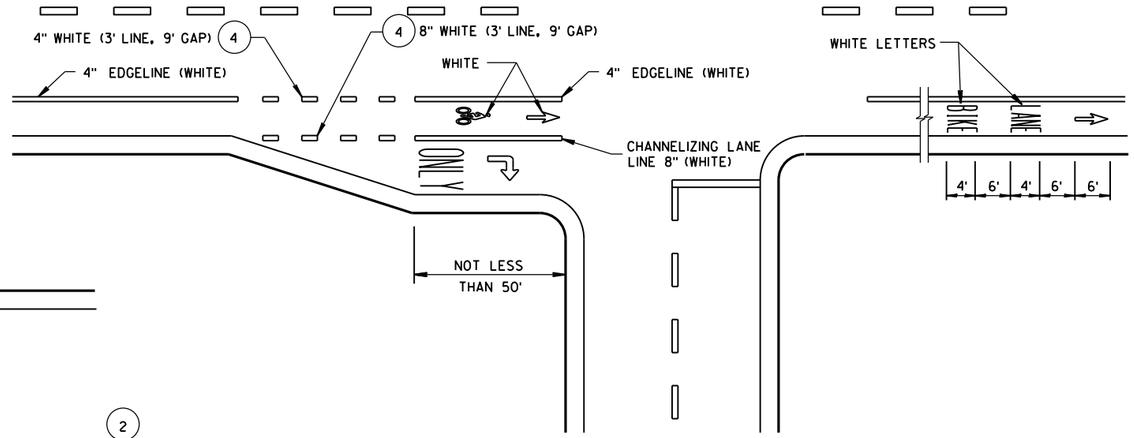
S.D.D. 15 C 29-3b



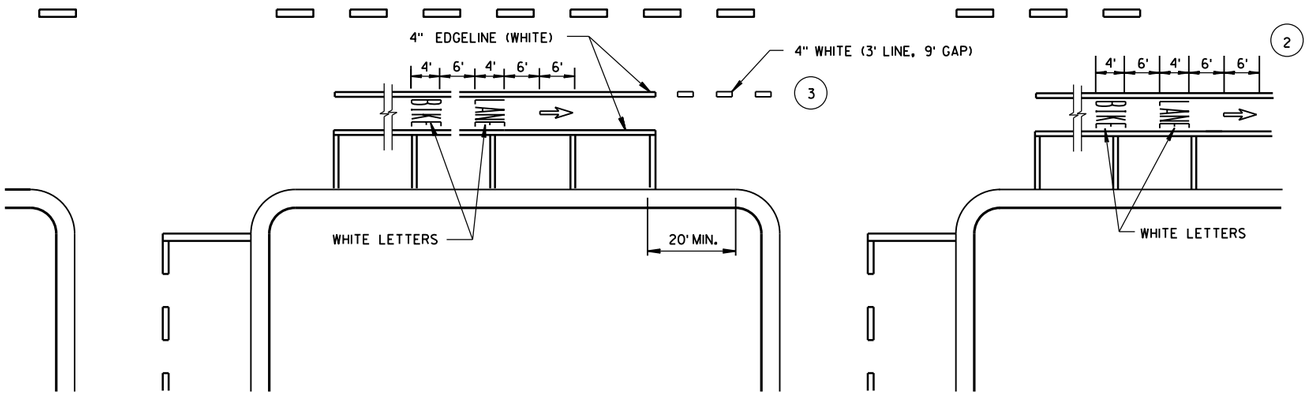
DESIGNATED BICYCLE LANE

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' 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. WHEN SPECIFIED IN THE CONTRACT.



DESIGNATED BICYCLE LANE
NO PARKING, RIGHT TURN LANE



DESIGNATED BICYCLE LANE
WITH PARKING, NO RIGHT TURN LANE

URBAN BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/30/2013 DATE
/S/ Travis Feltes
STATE TRAFFIC E
FHWA

6

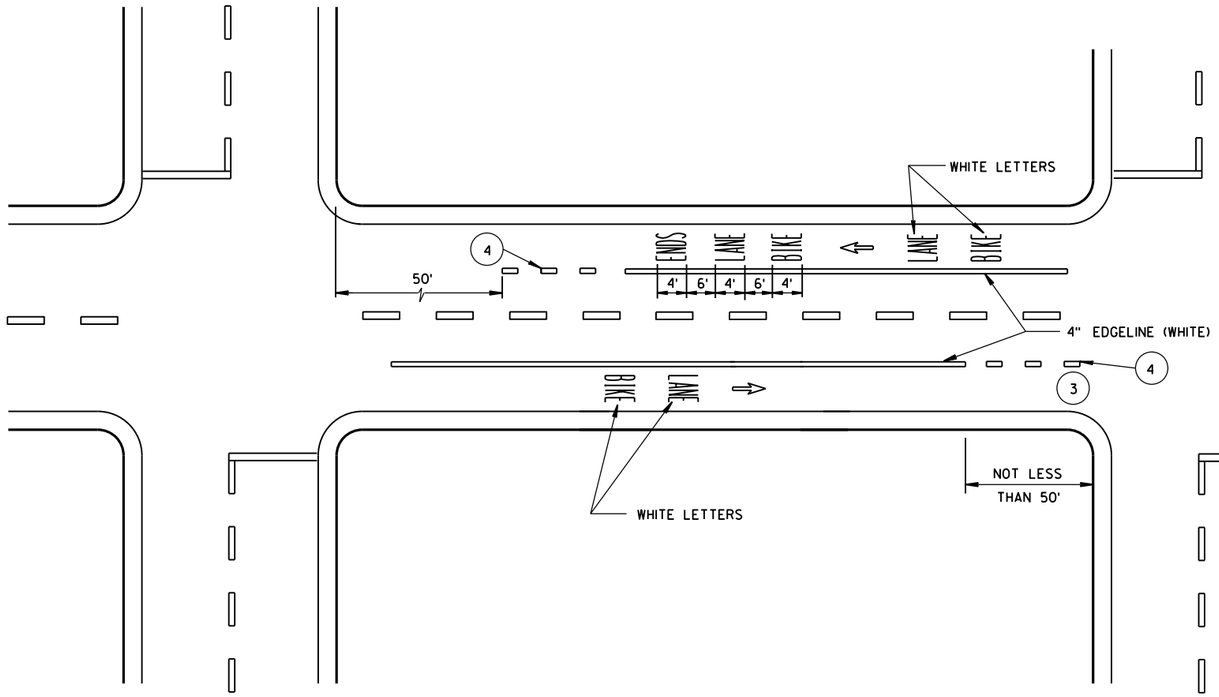
S.D.D. 15 C 29-3c

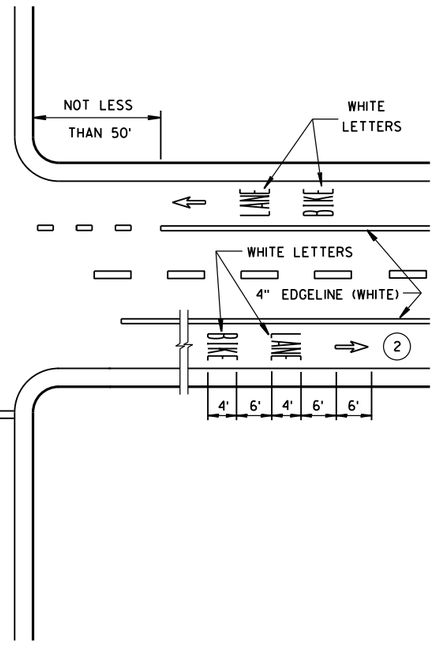
6

S.D.D. 15 C 29-3c

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' 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. 3' LINE, 9' GAP - 4" WIDE, WHITE.





DESIGNATED BICYCLE LANE
NO PARKING

URBAN BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC EN 353

FHWA

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S.D.D. 15 C 29-3d

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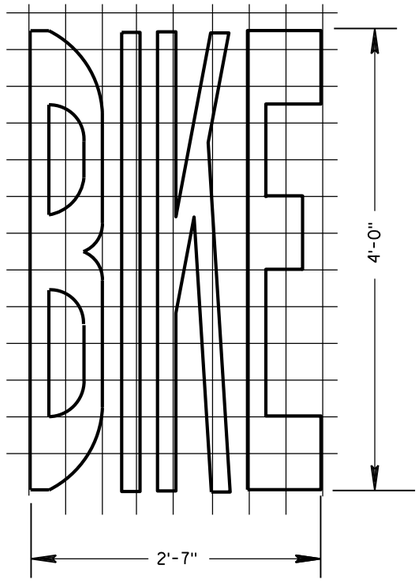
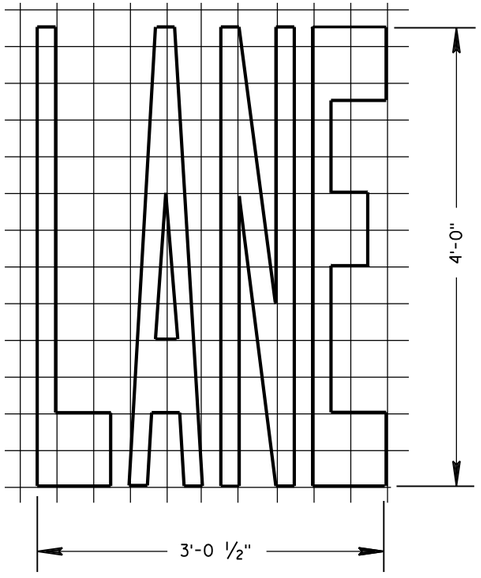
S.D.D. 15 C 29-3d

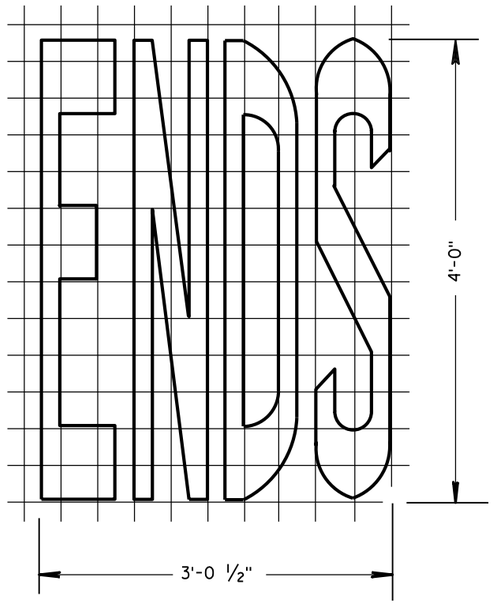
GENERAL NOTES

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.

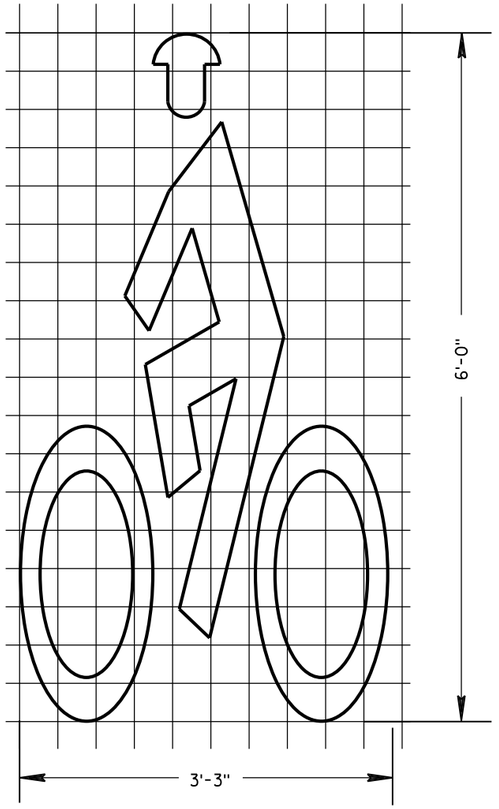
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



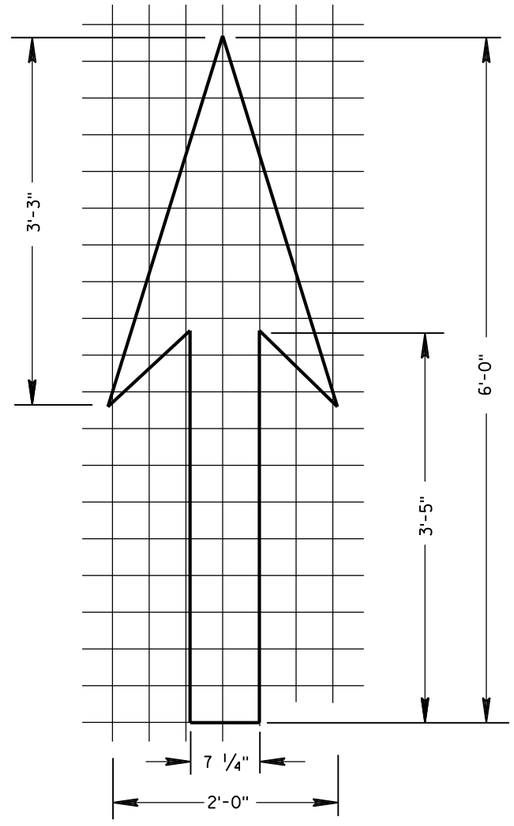




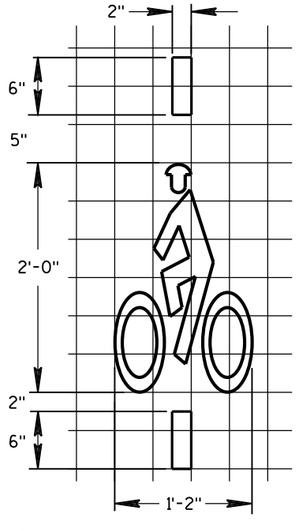
BIKE LANE WORDS



BIKE LANE SYMBOL



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-30-2013
DATE

/S/ Travis Feltes
STATE TRAFFIC EN

FHWA

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S.D.D. 15 C 29-3e

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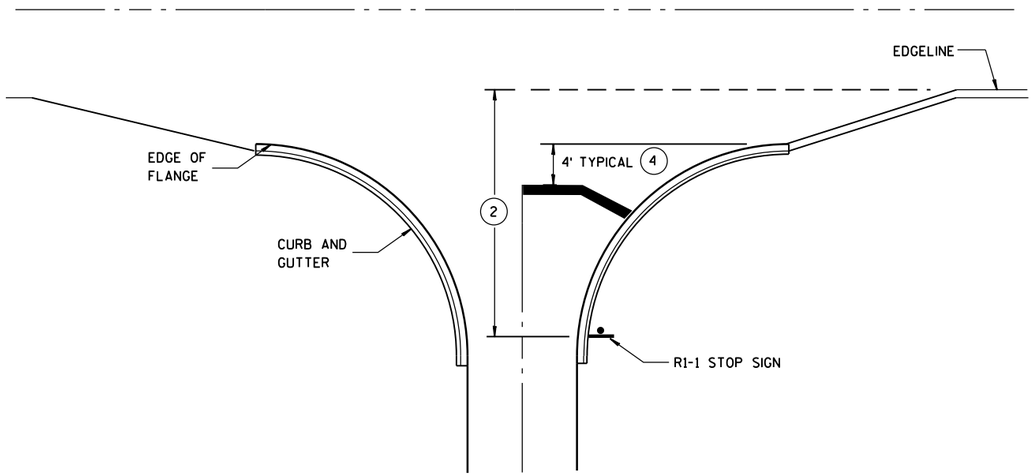
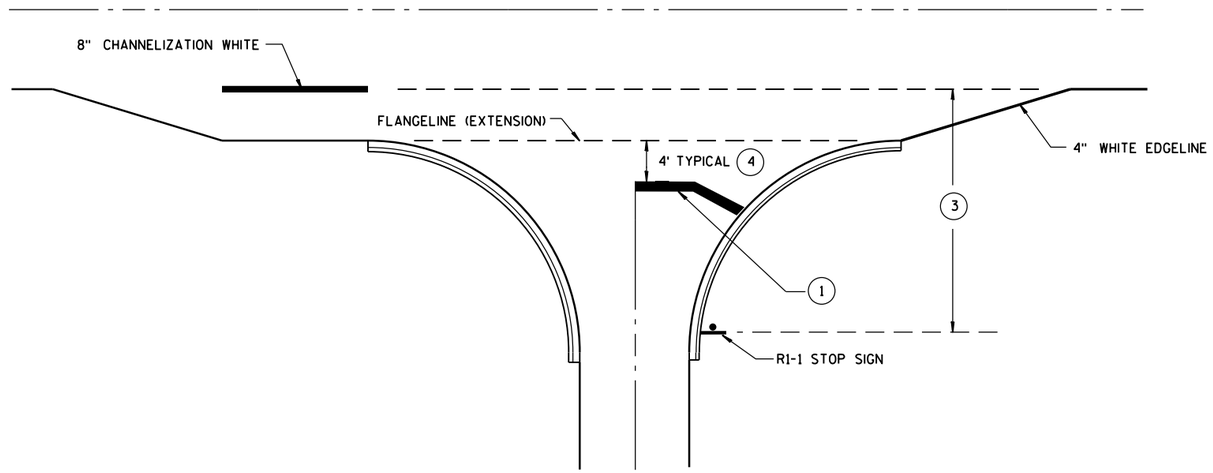
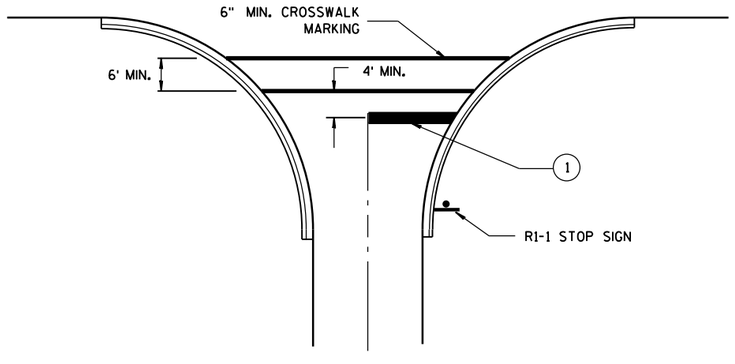
S.D.D. 15 C 29-3e



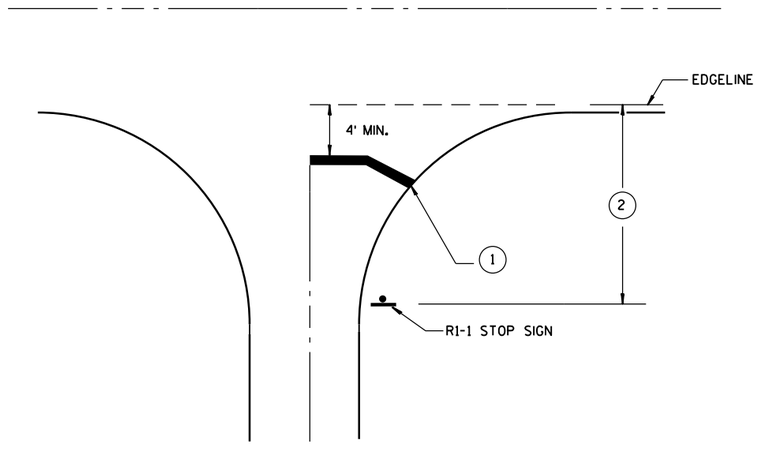
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

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.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

355

FHWA

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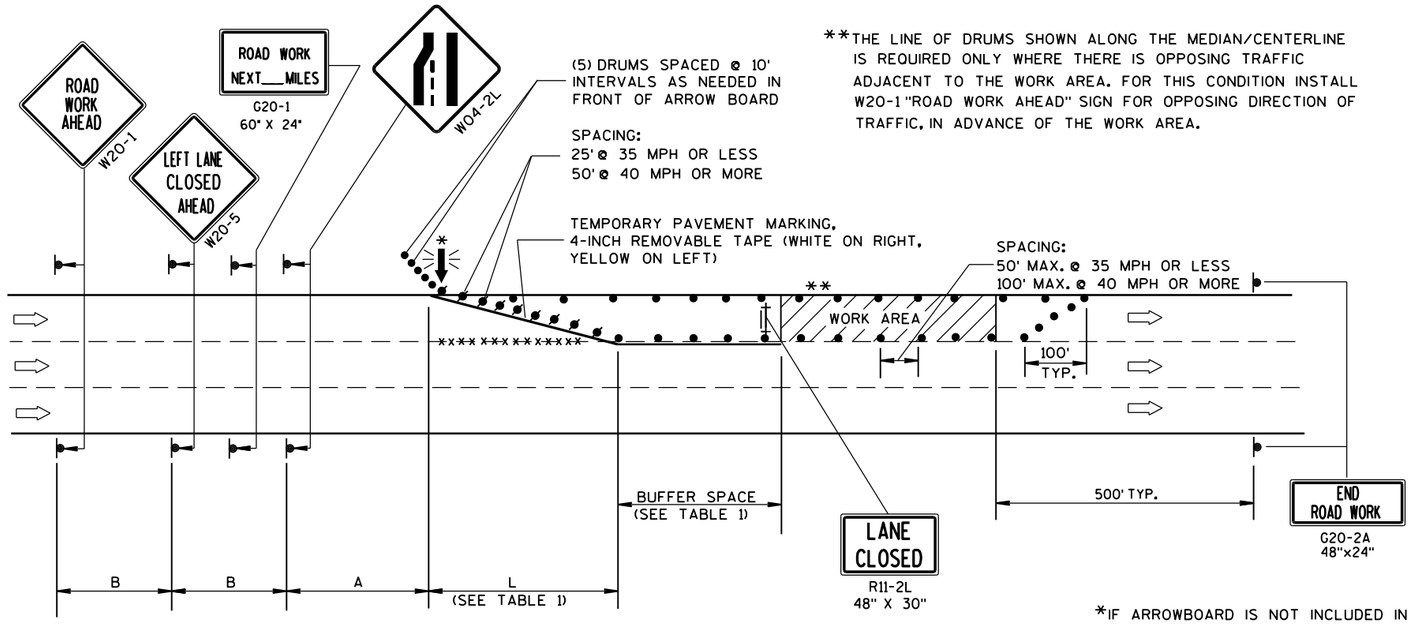
S.D.D. 15 C 33-1



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

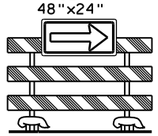


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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 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.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

BARRICADES IN A CLOSED LANE 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.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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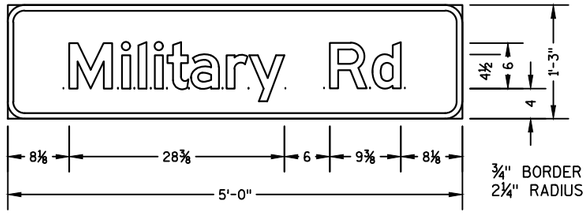
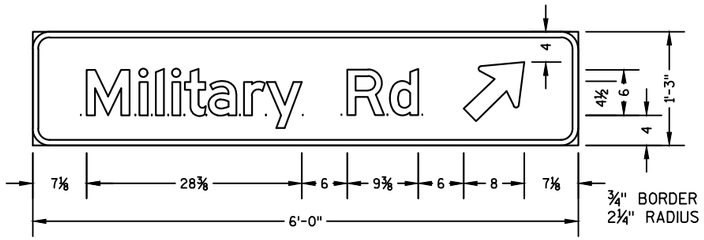
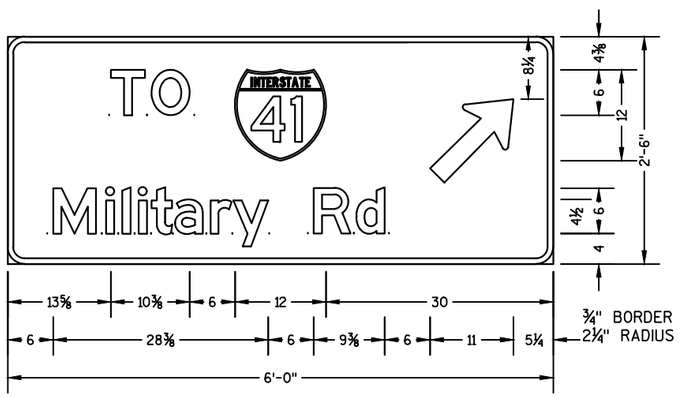
S.D.D. 15 D 20-3



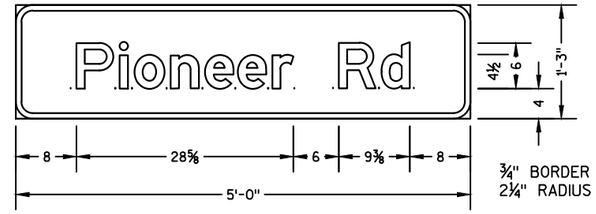
D1-1



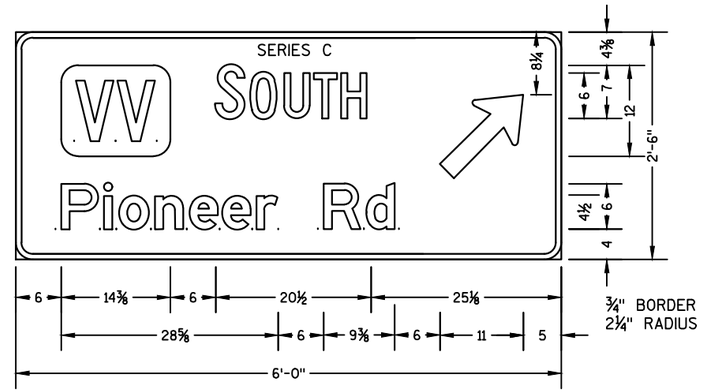
D1-1



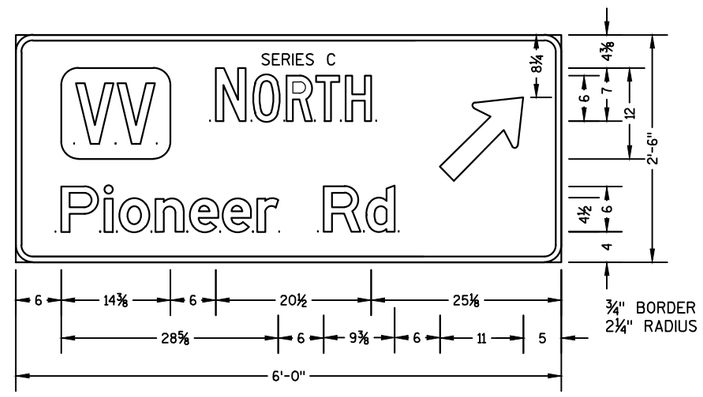
D1-2



D1-1



D1-2



D1-2

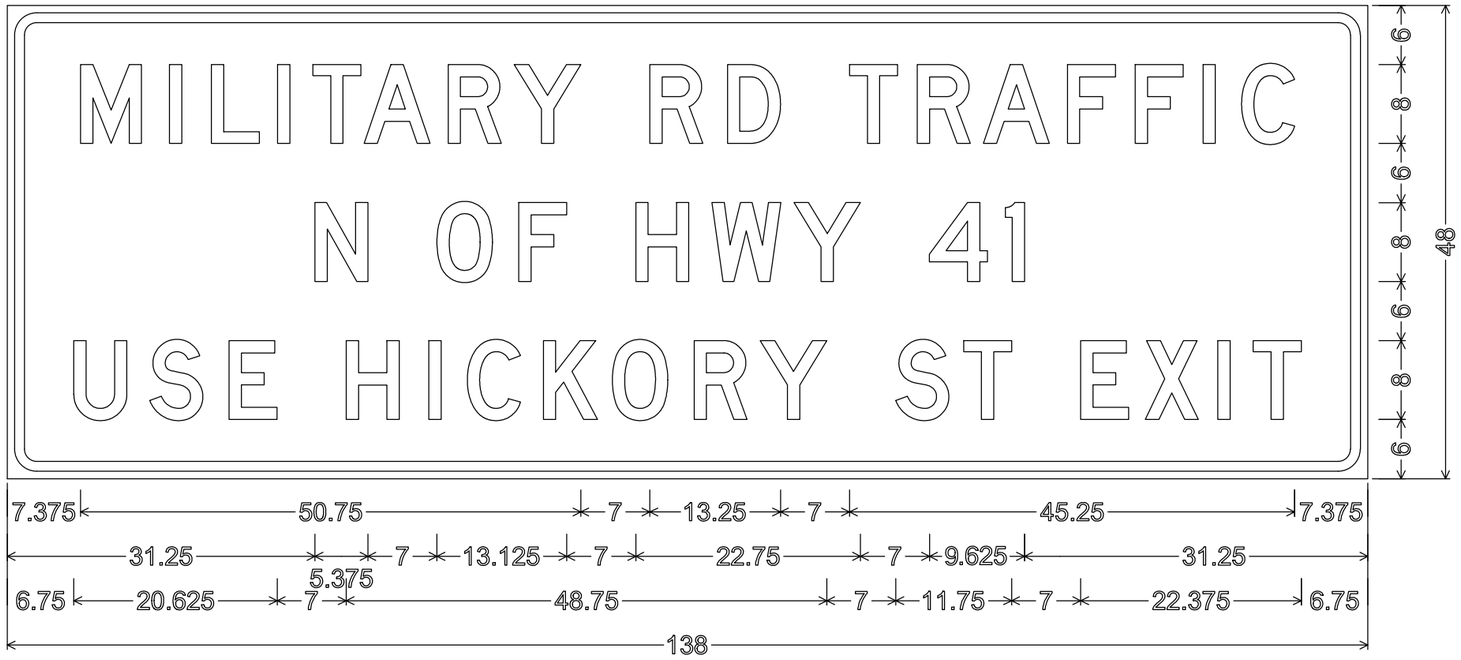
NOTES

1. ALL SIGNS TYPE II - TYPE H REFLECTIVE - REFERENCE WIS DOT STANDARD SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION LATEST EDITION
2. COLOR:
   BACKGROUND - GREEN
   MESSAGE - WHITE
3. MESSAGE SERIES - E EXCEPT AS NOTED

7

7

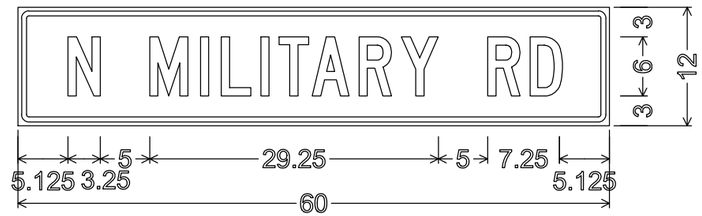
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	SIGN DETAILS	SHEET 357	E



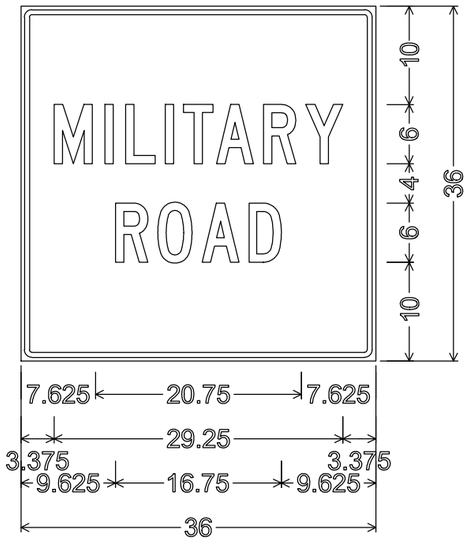
3.000" Radius, 1.000" Border, 0.750" Indent,

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D except as noted



1.125" Radius, 0.500" Border, 0.375" Indent
"N" C; "MILITARY" C; "ST" C;



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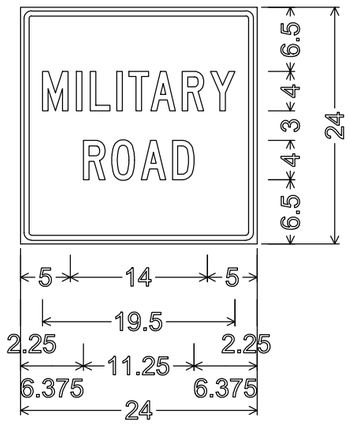
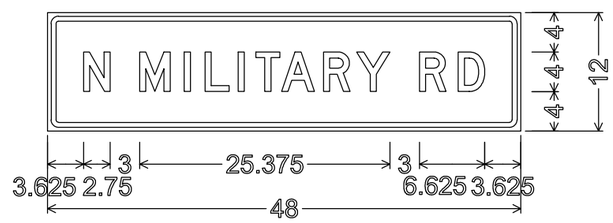
"MILITARY" C; "ROAD" C;



1.125" Radius, 0.500" Border, 0.375" Indent,
"MILITARY" C; "ROAD" C;



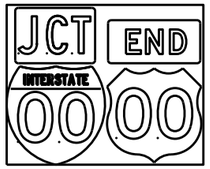
1.125" Radius, 0.500" Border, 0.375" Indent,

WORK BY OTHERS
FOR INFORMATION ONLY

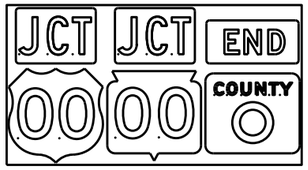
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	TEMPORARY SIGNING	SHEET 358	E

TYPICAL ASSEMBLIES

J1-1

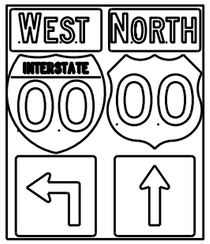


J1-2

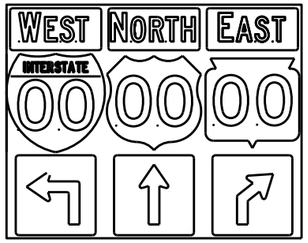


J1-3

J2-1



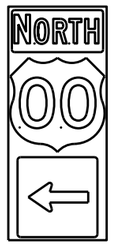
J2-2



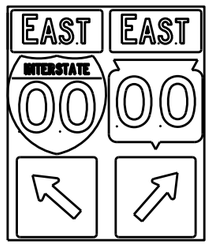
J2-3

JV

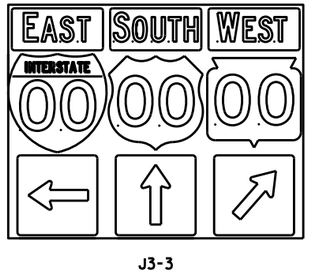
(Typical Vertical J-Assembly
See Note 10 and 11)



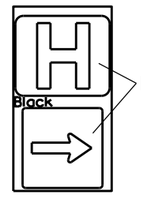
J3-1



J3-2

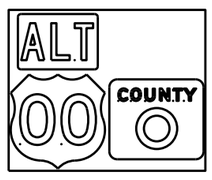


J3-3

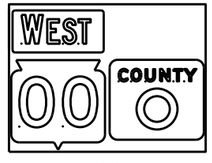


JH-1

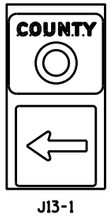
J4-1



J4-2



J4-2



J13-1

J12-1

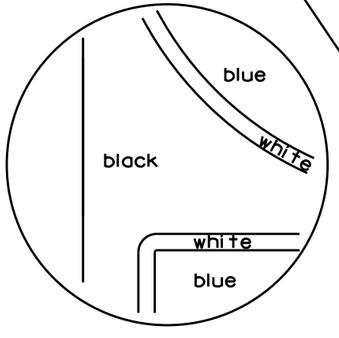
J32-1

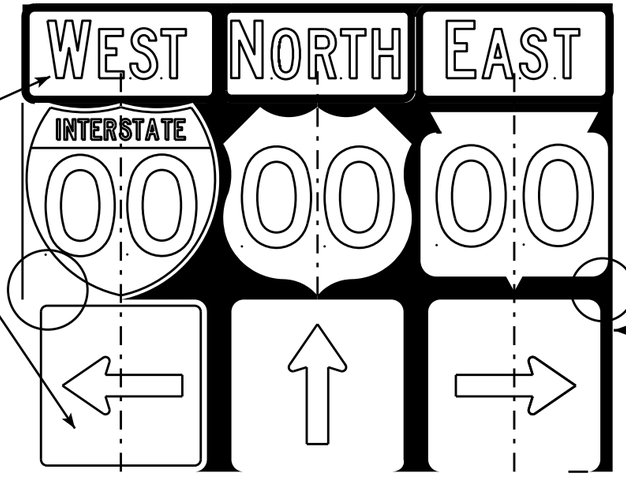
J33-1

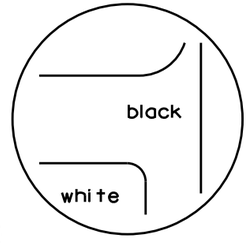
J23-1

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

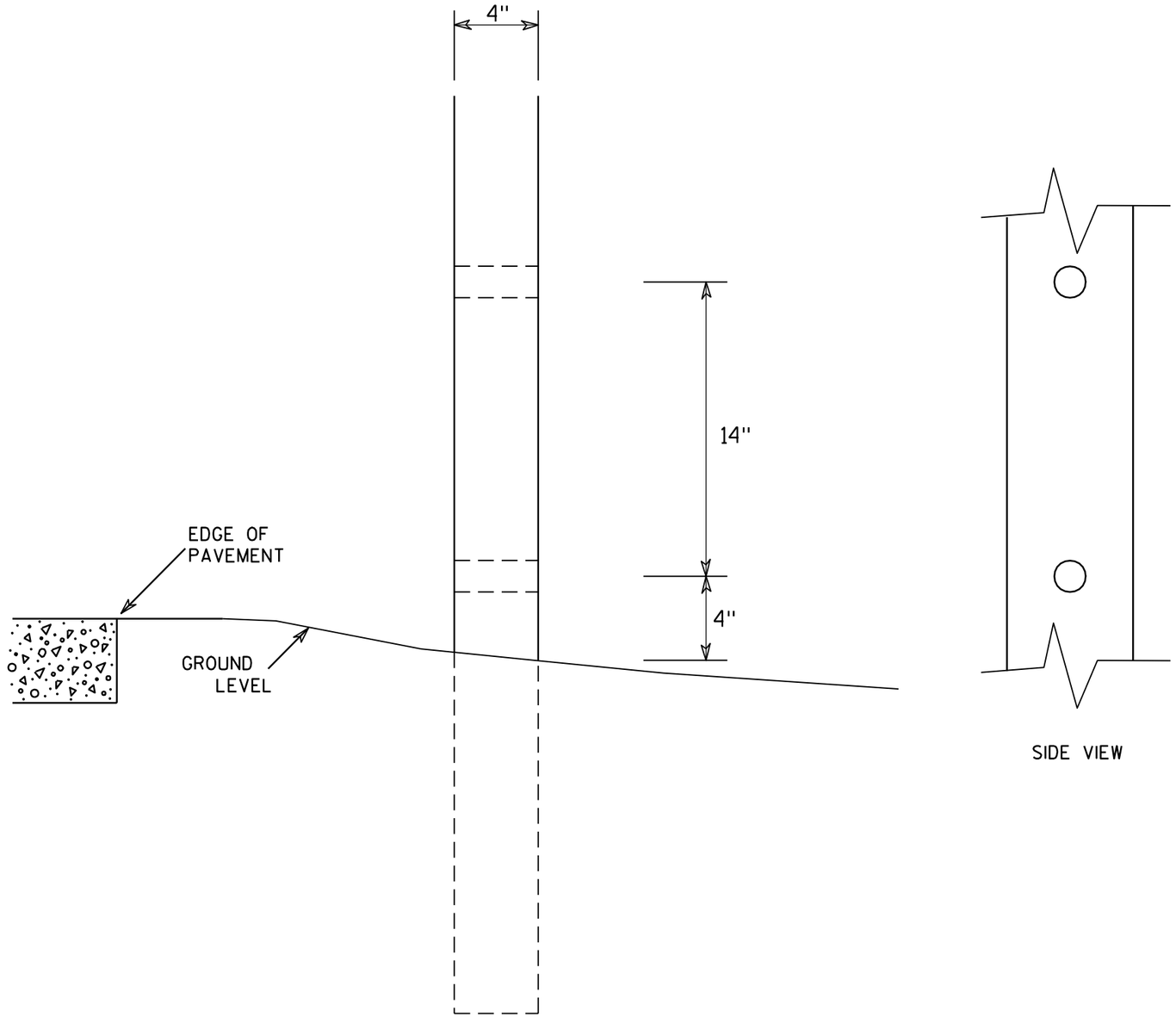
WISCONSIN DEPT OF TRANSPORTATION

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



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.

7

7

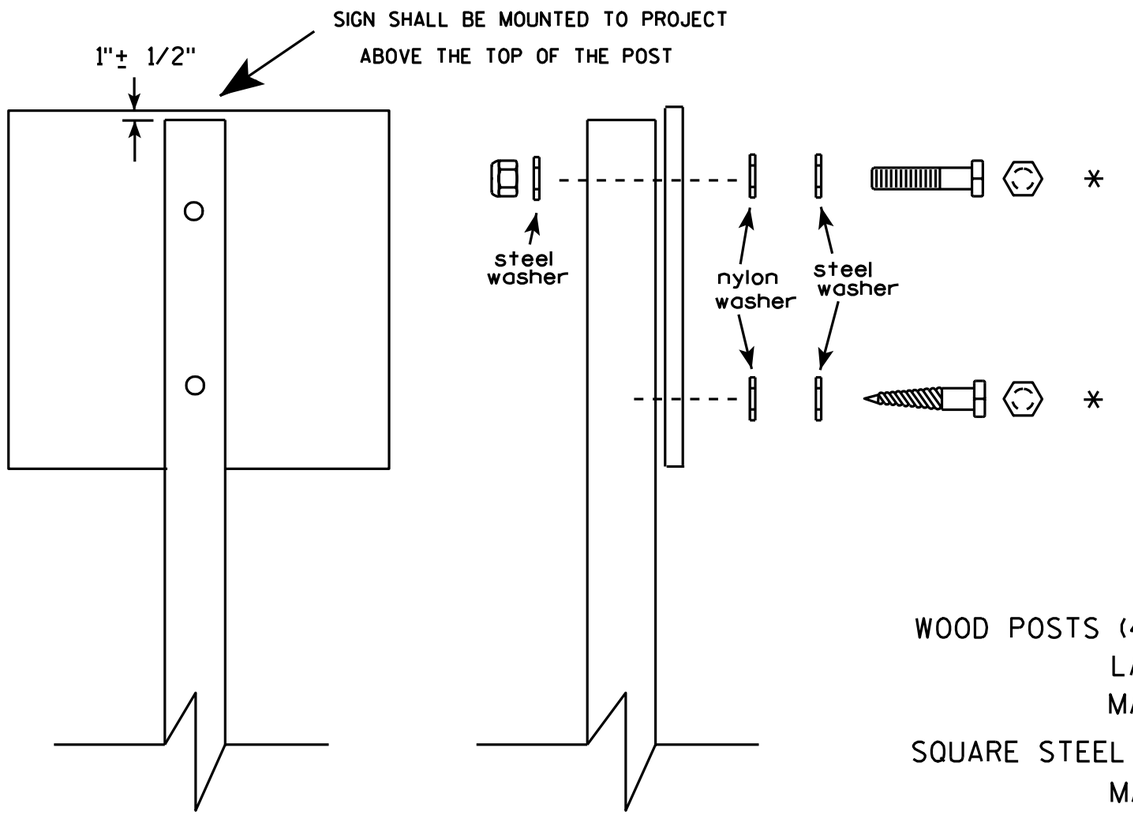
4 X 6 WOOD POST MODIFICATIONS

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: 360	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

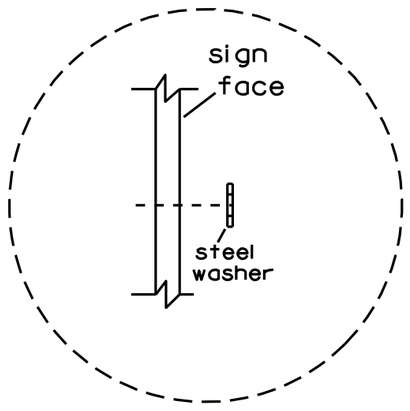
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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.

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.



Washer Placement when Sign Has Other Than Type H or Type F Face

* 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

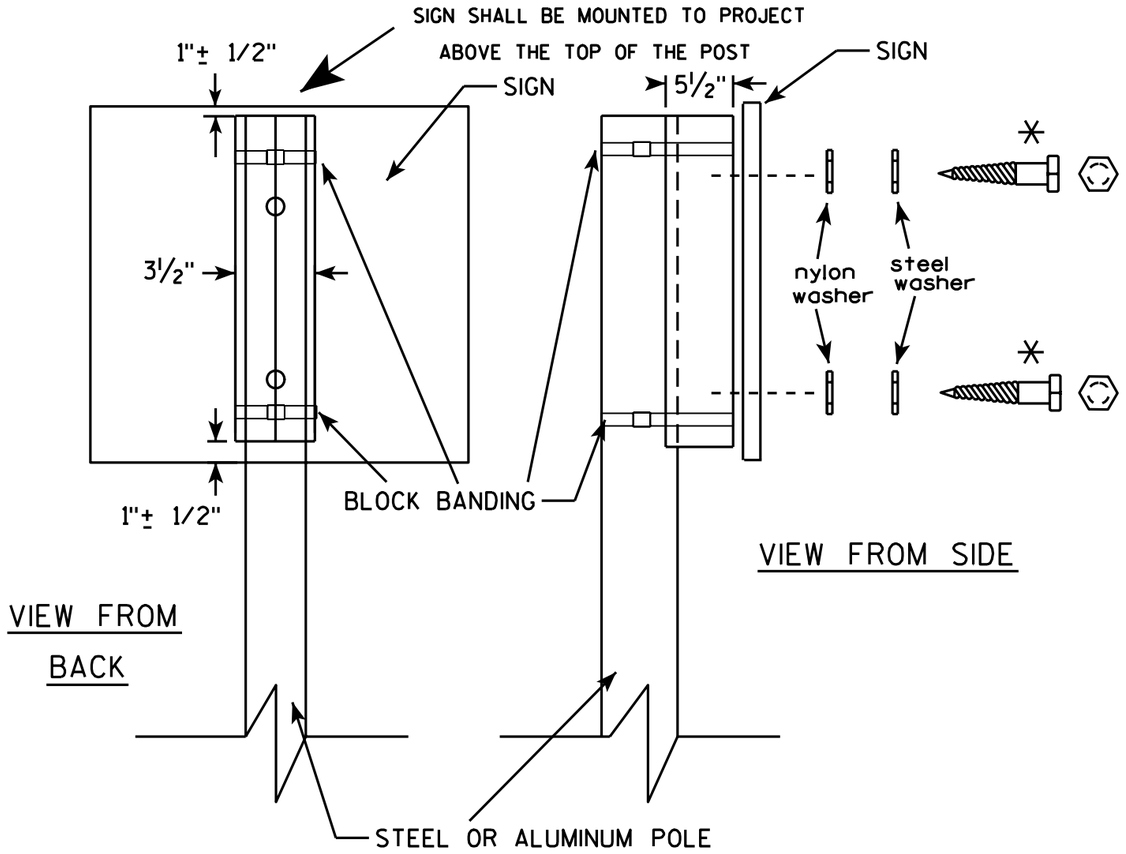
DATE 3/23/10 PLATE NO. A4-8.7

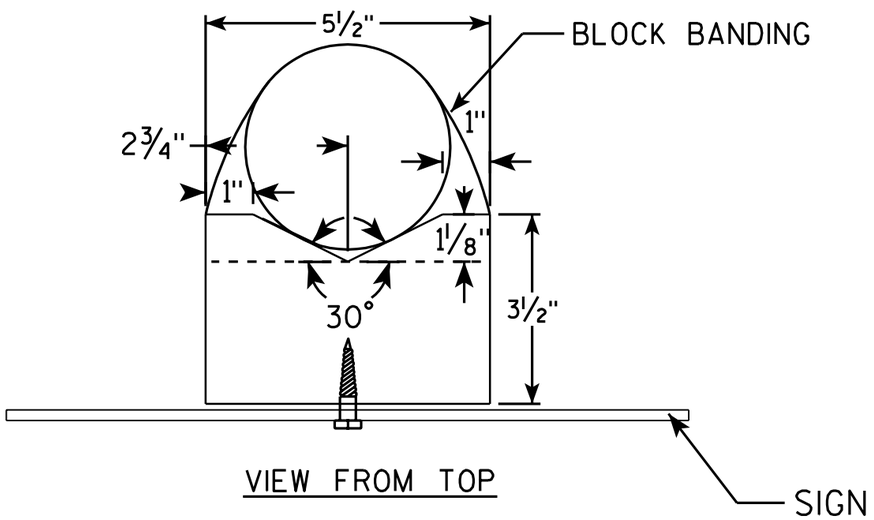
7

7

PROJECT NO:

SHEET NO: 361 E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

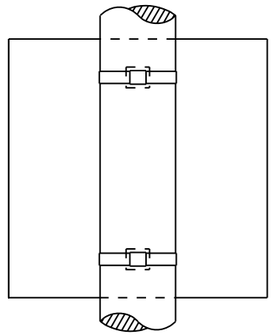
SHEET NO: 362 E

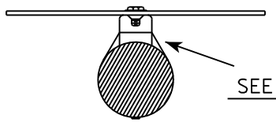
FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

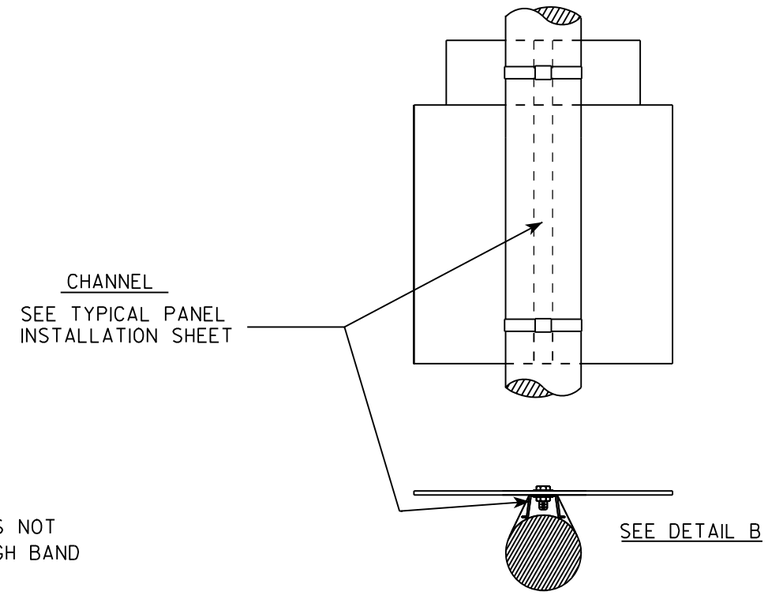
BANDING

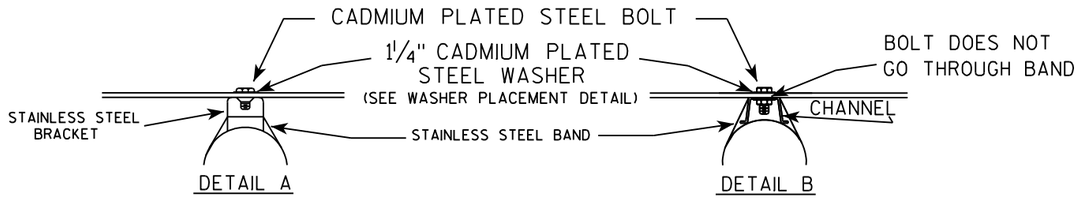
SINGLE SIGN



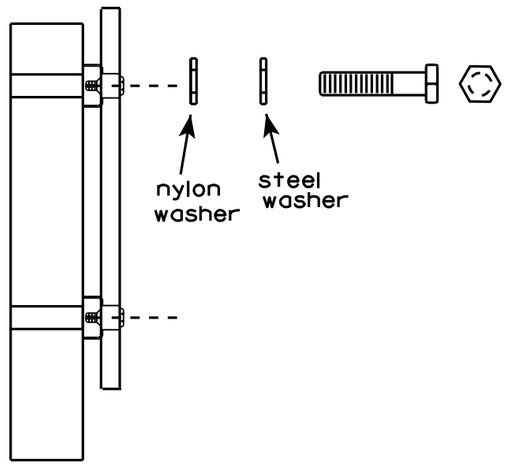


"J" ASSEMBLY





WASHER PLACEMENT



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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

STANDARD SIGN
SIGN BANDING DETAILS

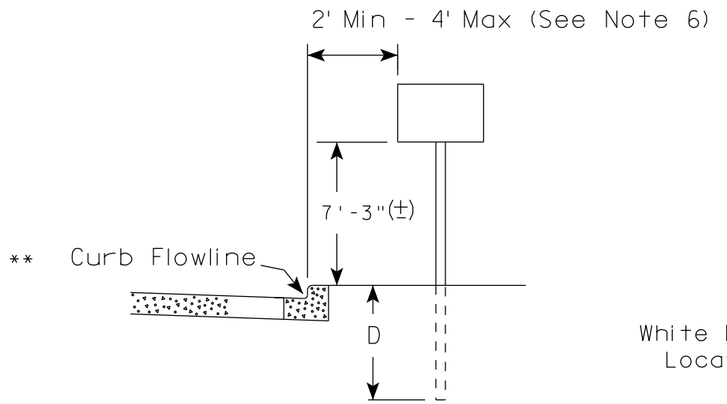
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

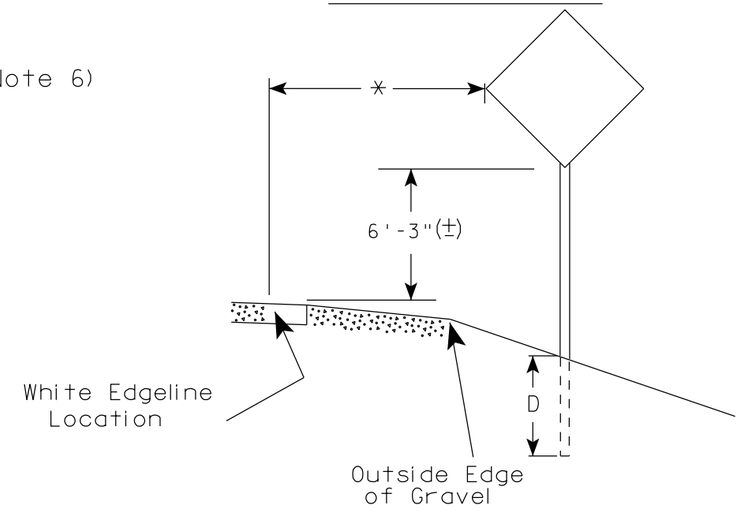
DATE 8/16/13 PLATE NO. A5-9.3

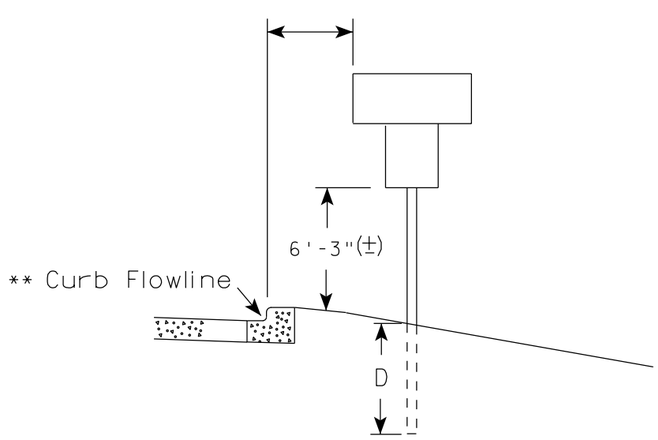
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 363	E

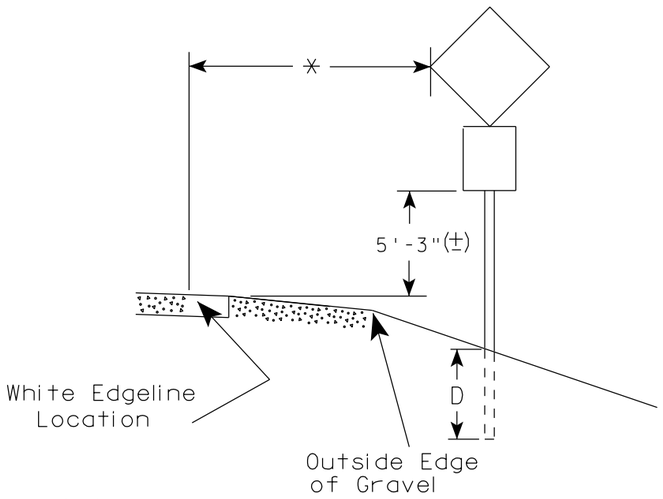
URBAN AREA



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" (±).

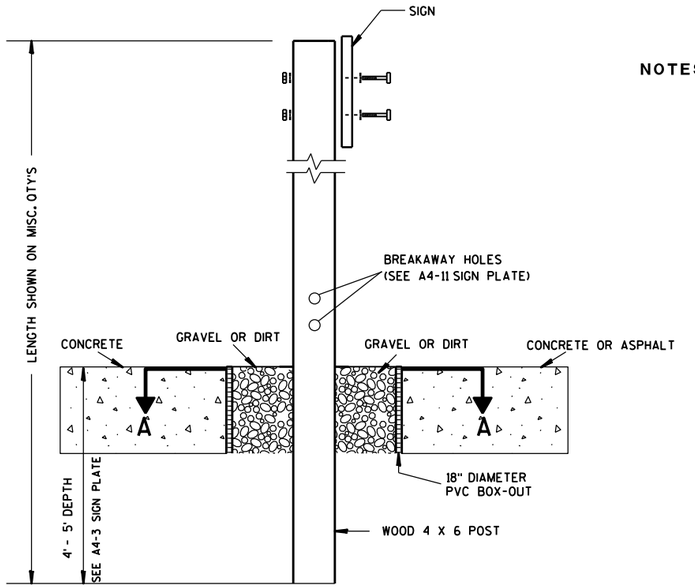
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

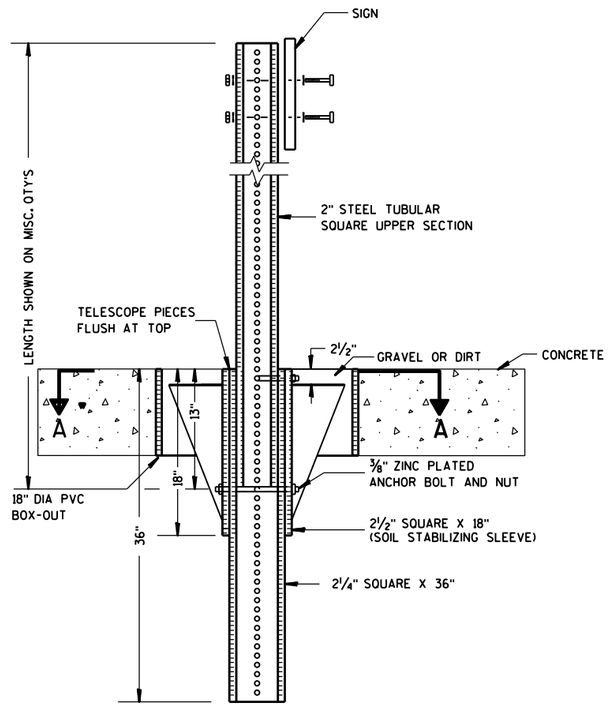
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

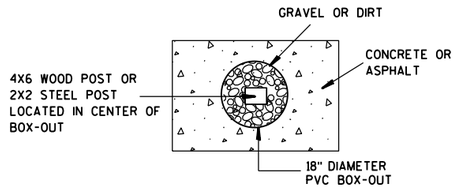
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

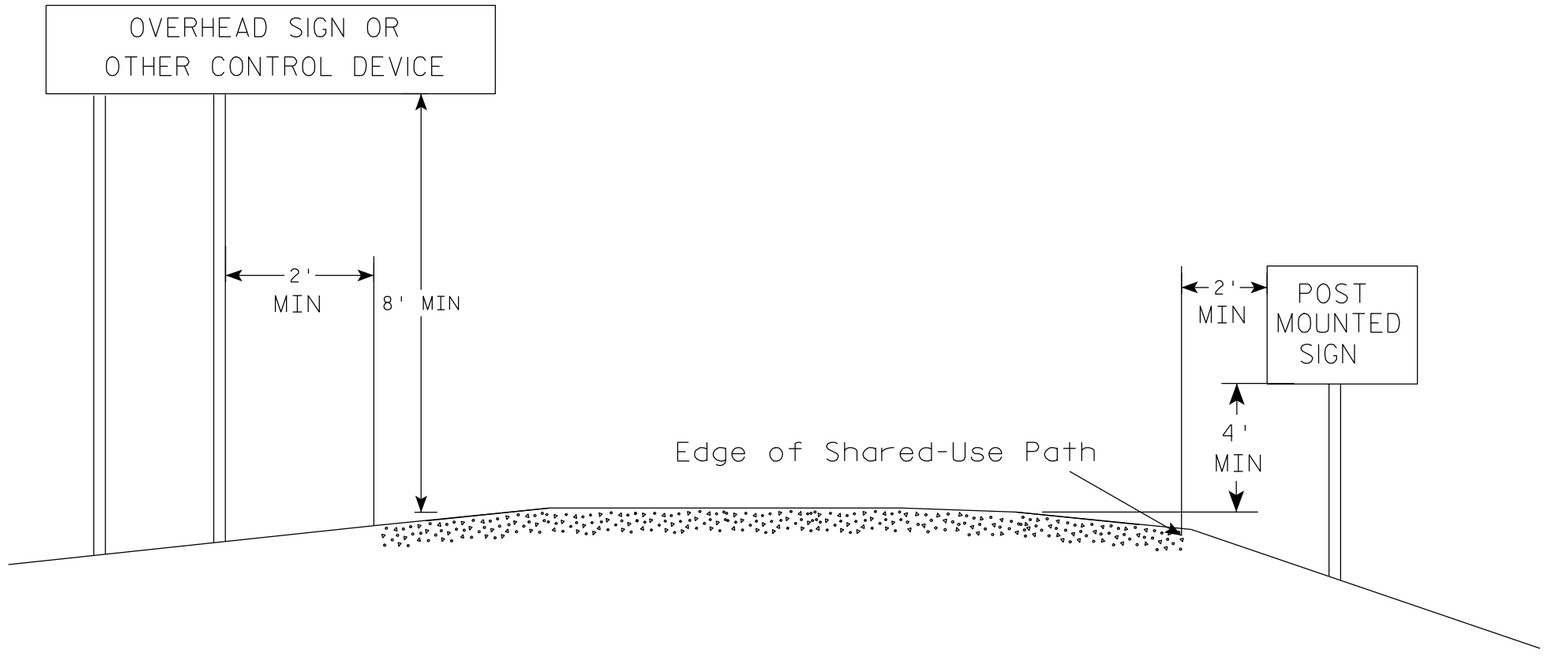
DATE 1/27/14 PLATE NO. A4-3B.1

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

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. Offset distance shall be consistent with existing signs or consistent throughout length of project.



POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON MULTI USE PATHS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

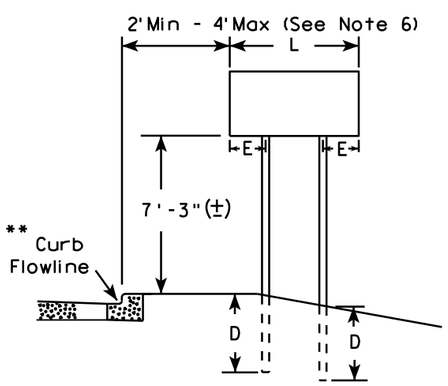
DATE 3/5/2012 PLATE NO. A4-3S.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 366	E

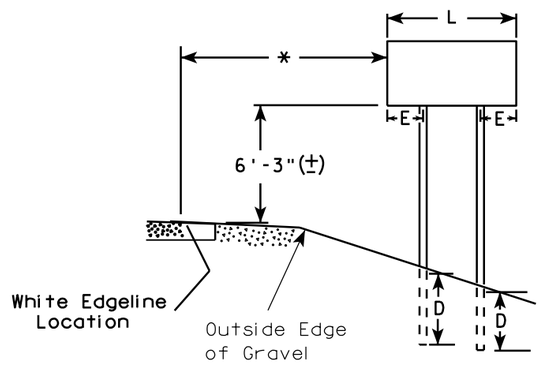
FILE NAME : c:\CAEFiles\Projects\tr_stdplate\A43S.DGN PLOT DATE : 05-MAR-2012 13:42 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 101.303739:1.000000

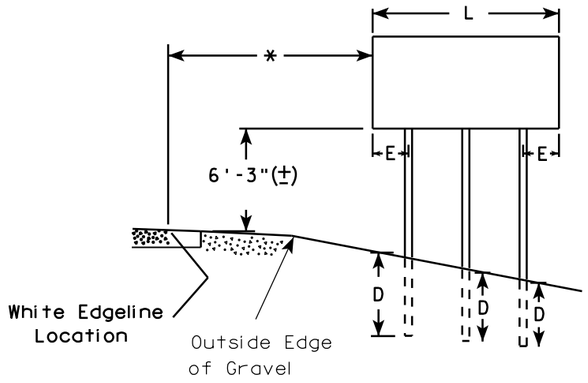
WISDOT/CADDS SHEET 42

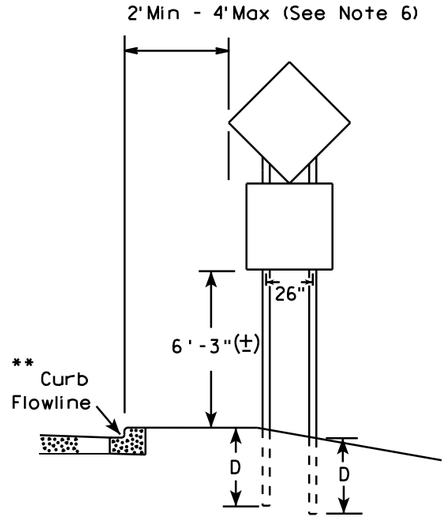
URBAN AREA



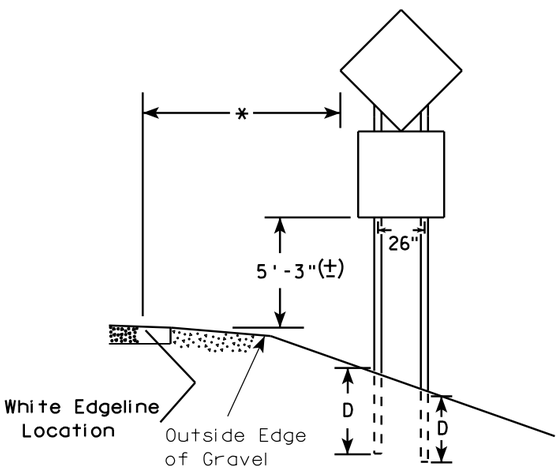
RURAL AREA (See Note 3)







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

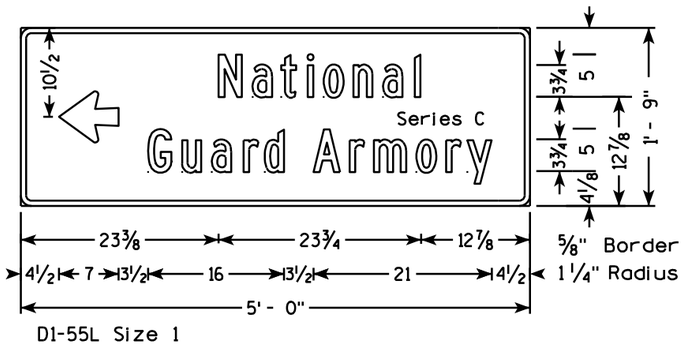
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

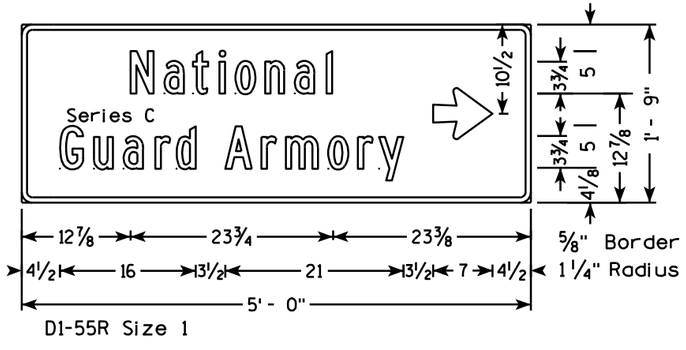
DATE 7/23/15 PLATE NO. A4-4 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000 WISDOT/CADDS SHEET 42



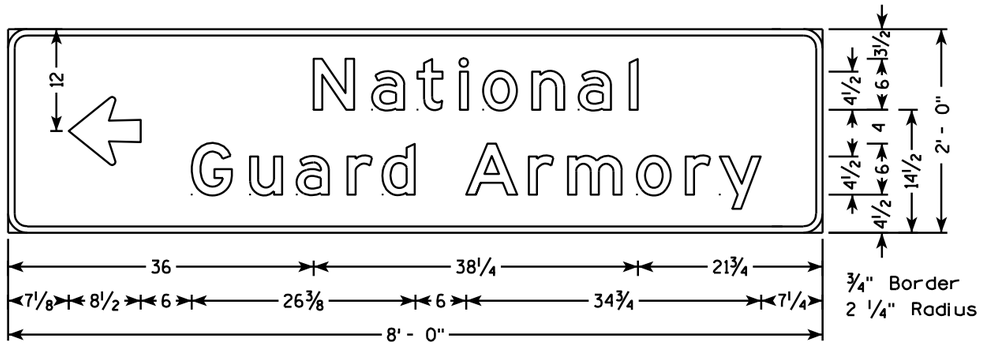
D1-55L Size 1



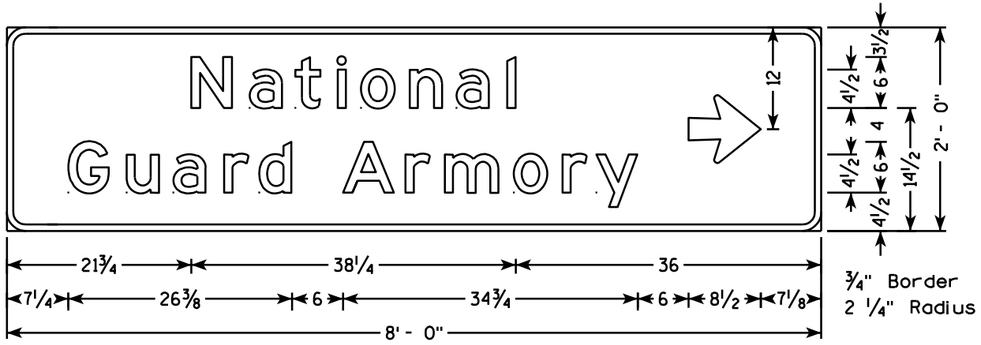
D1-55R Size 1

NOTES

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



D1-55L Size 2



D1-55R Size 2

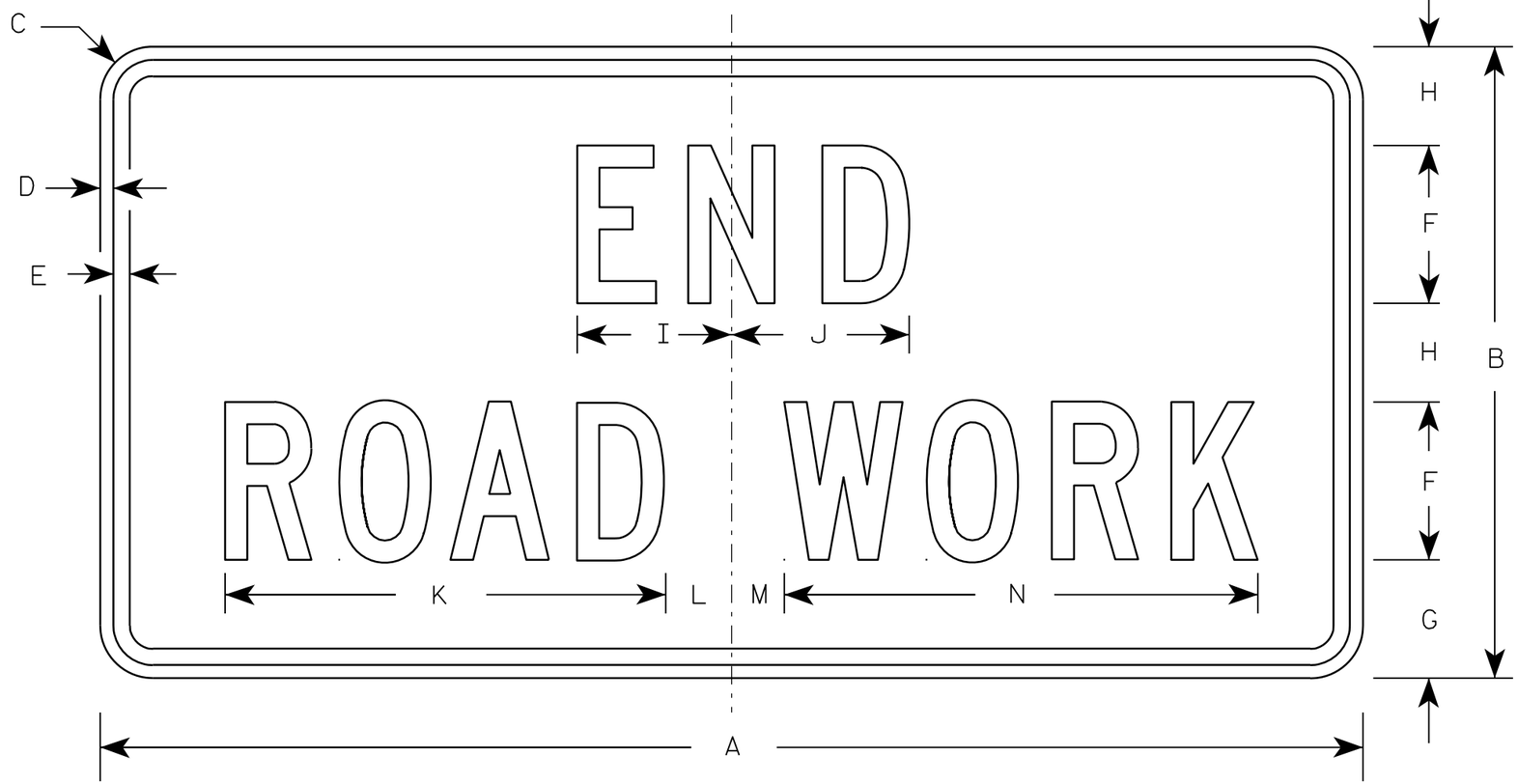
TYPICAL STANDARD
D1-55L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/21/13 PLATE NO. D1-55L.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 368	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

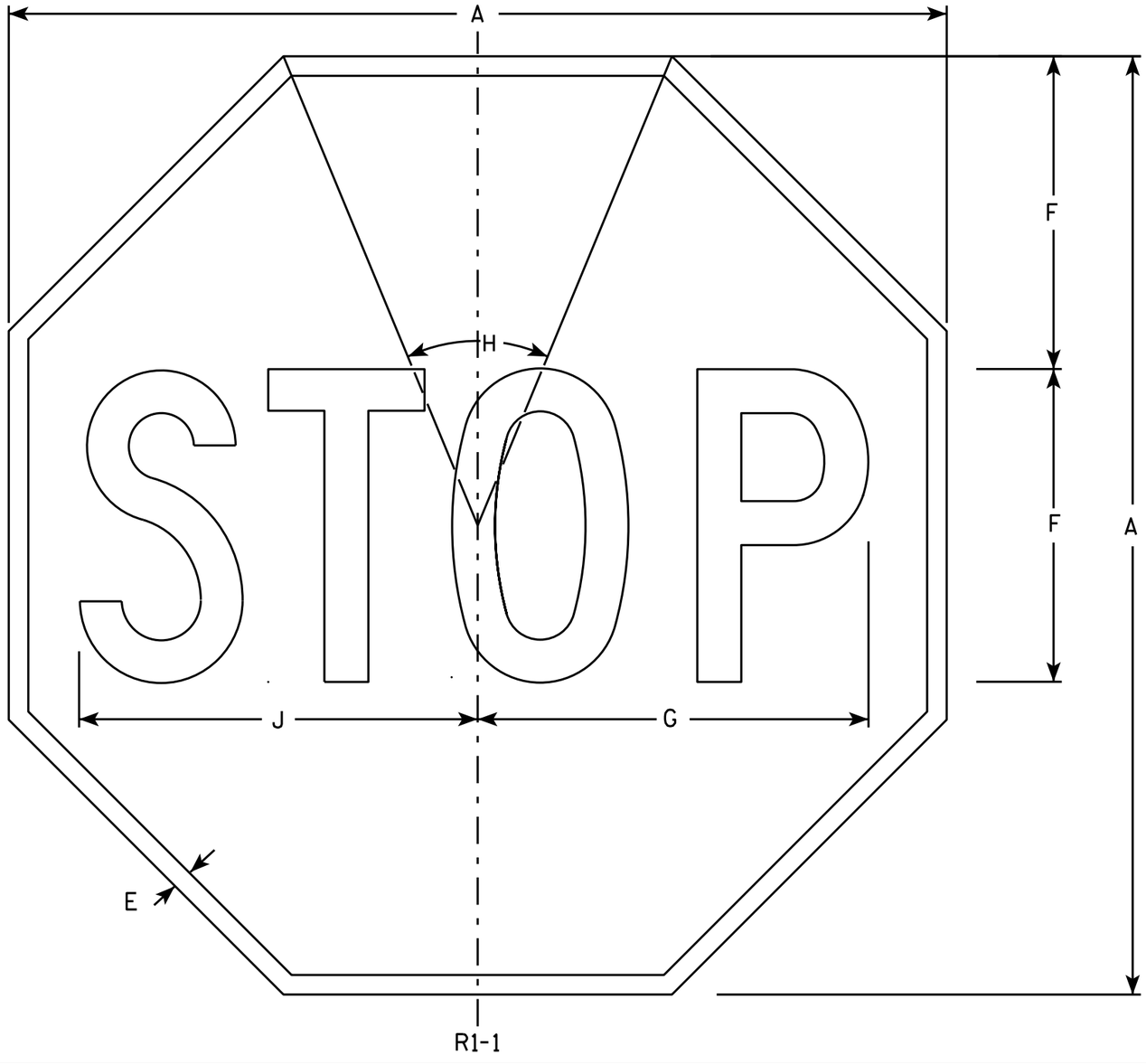
STANDARD SIGN
G20-2A

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: 369	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

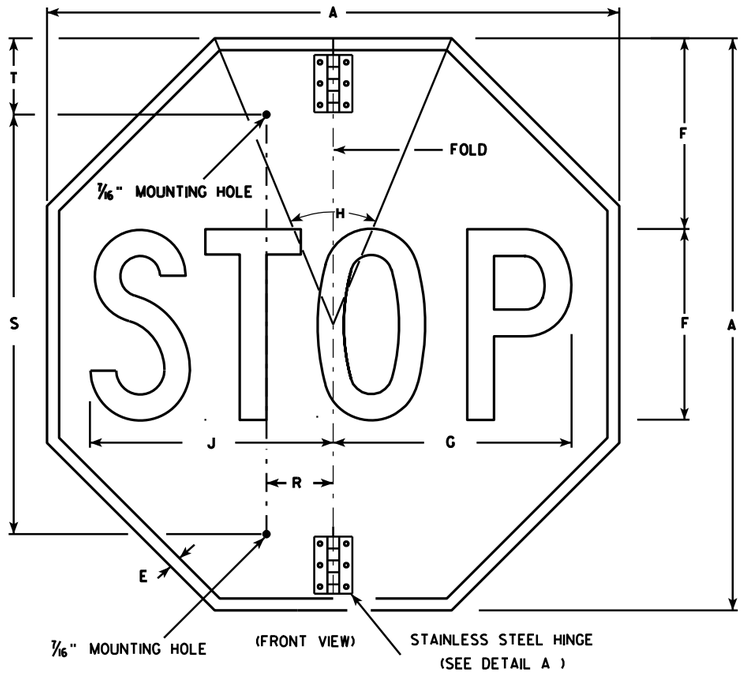
STANDARD SIGN
R1-1

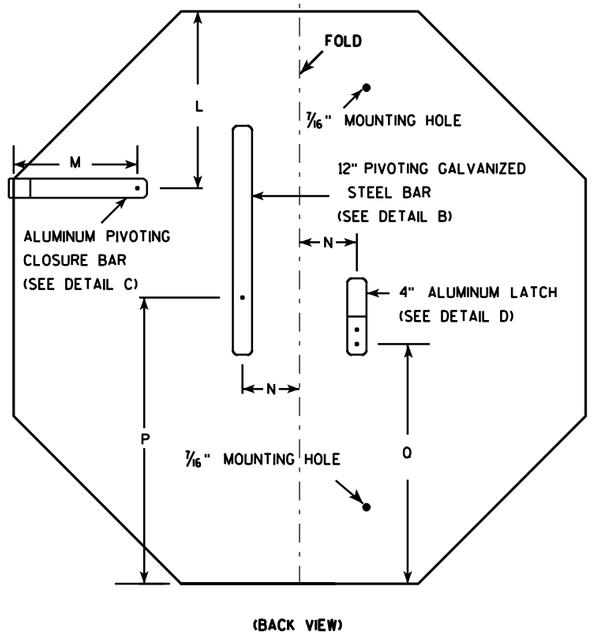
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.12

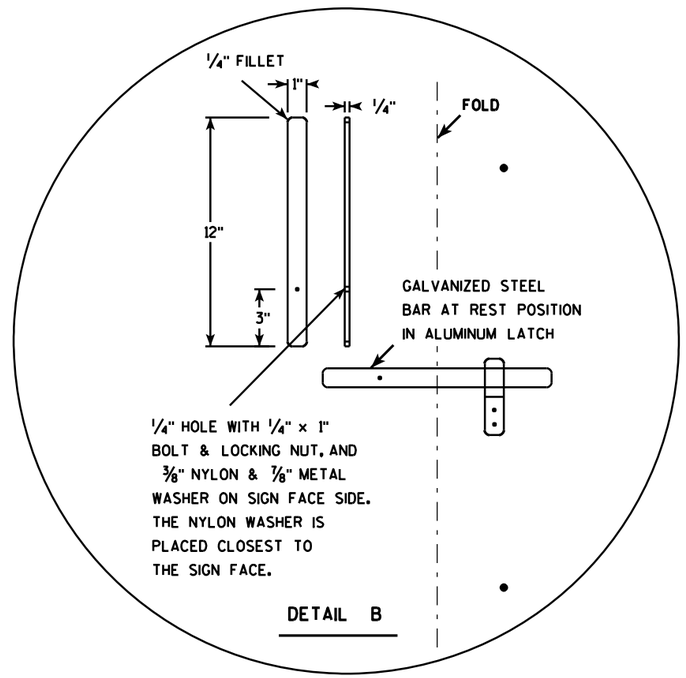
PROJECT NO:	HWY:	COUNTY:		SHEET NO. 370	E



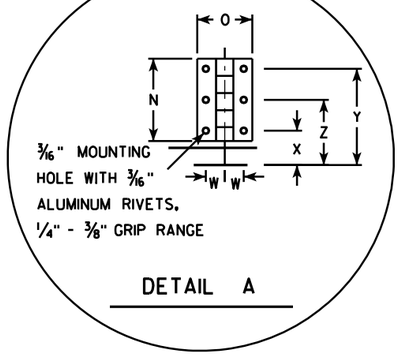


NOTES

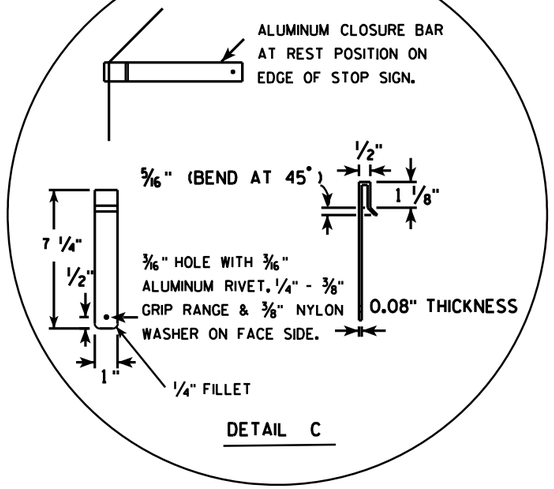
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



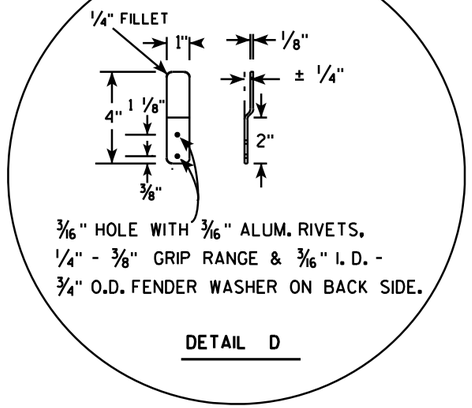
DETAIL B



DETAIL A



DETAIL C



DETAIL D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

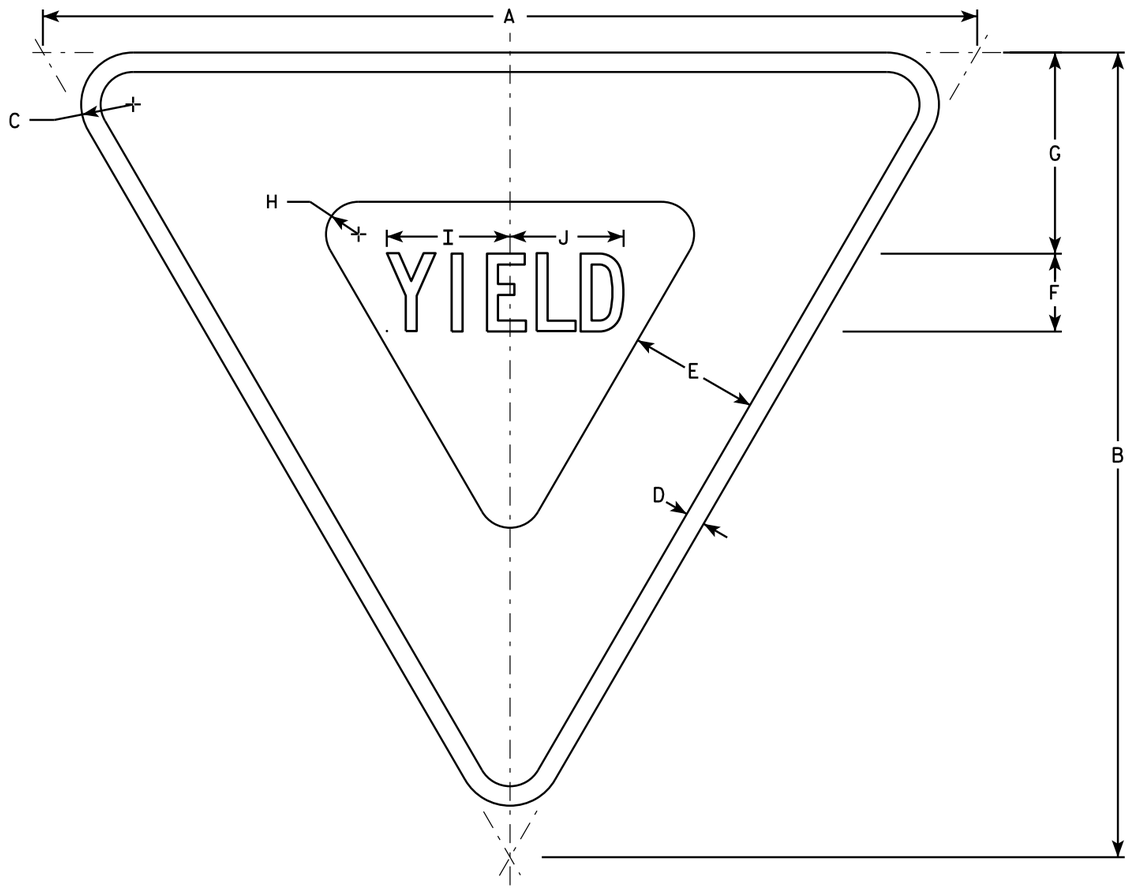
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 371 | 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

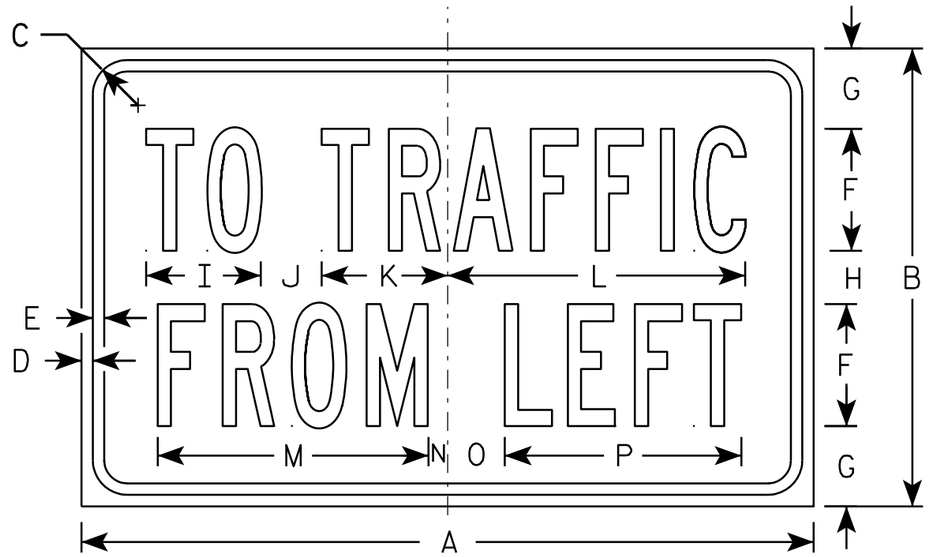
WISCONSIN DEPT OF TRANSPORTATION

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																											

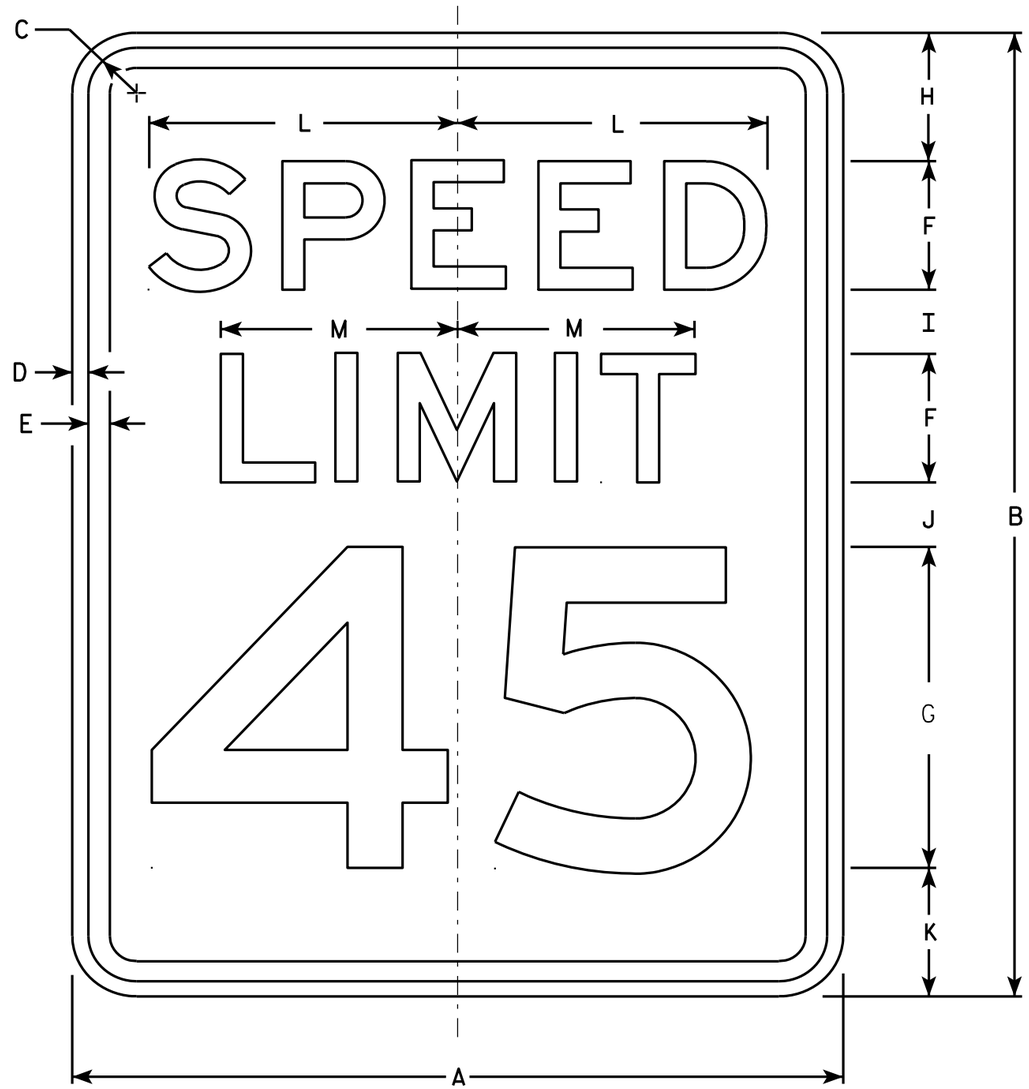
STANDARD SIGN
R1-54

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: 373	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

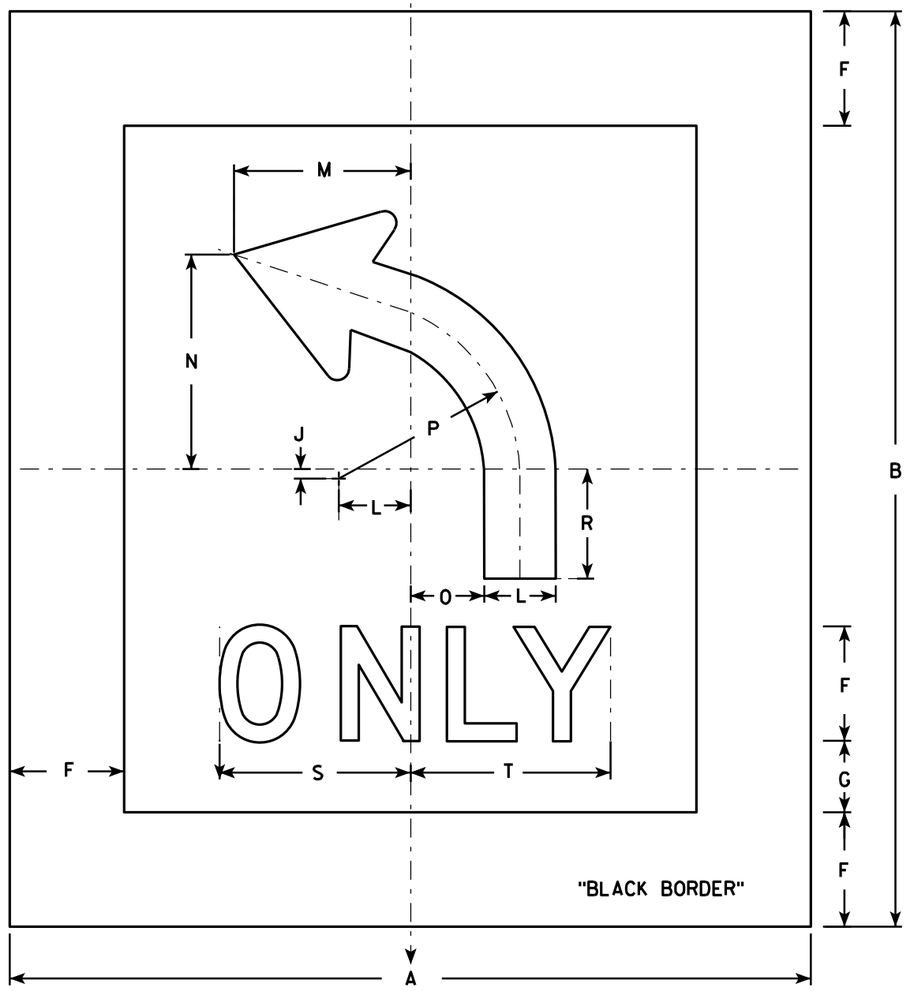
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

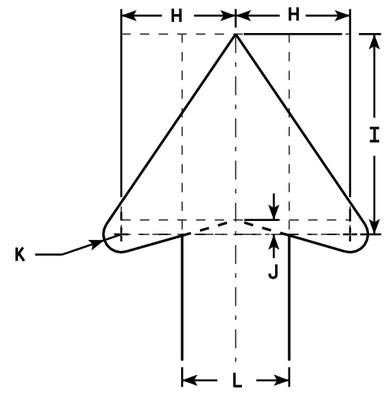
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 374	E



R3-5L

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. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



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	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

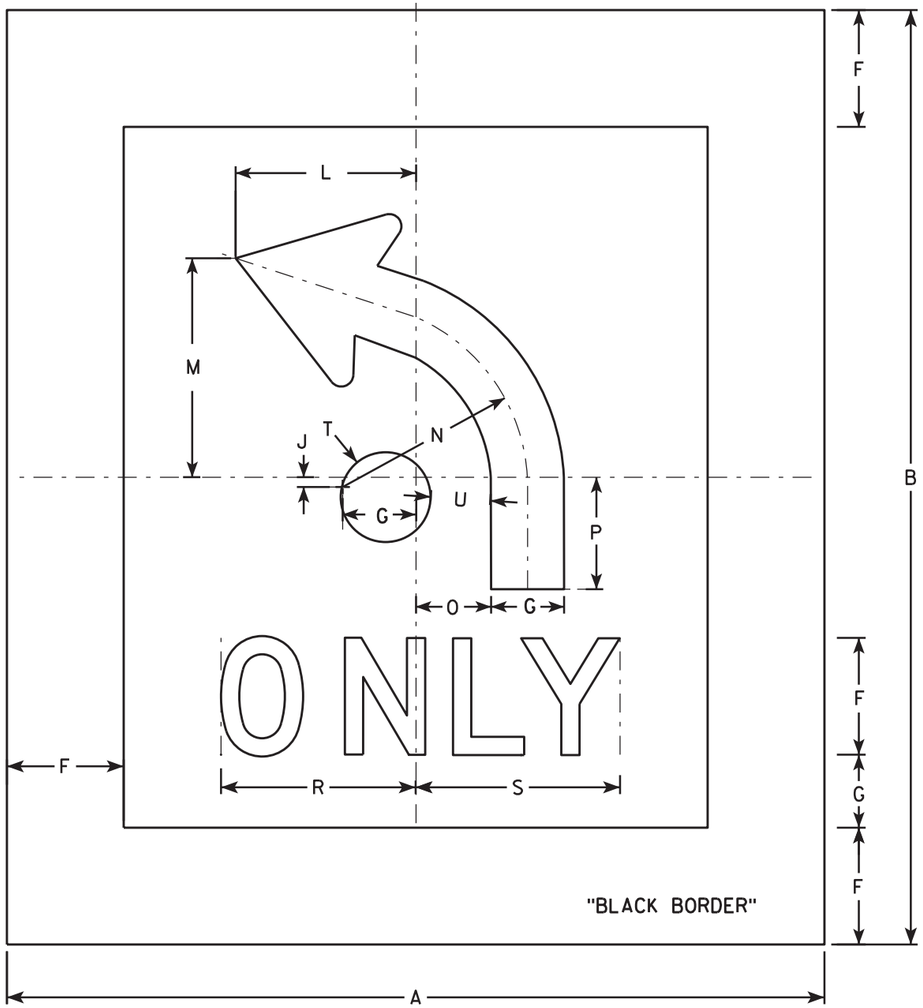
STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5.6

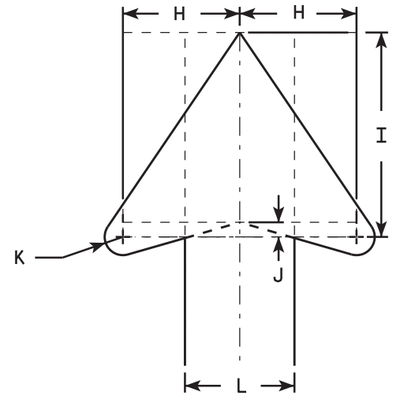
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 375 | E



R3-5X

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. The 6" border is non-reflective black.



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	42	48				6	3 3/4	4	7	1/2	5/8	9 1/4	11 1/4	9 1/2	3 7/8	5 3/4		10	10 1/2	4 1/2	3						14.0
2M	42	48				6	3 3/4	4	7	1/2	5/8	9 1/4	11 1/4	9 1/2	3 7/8	5 3/4		10	10 1/2	4 1/2	3						14.0
3																											
4																											
5																											

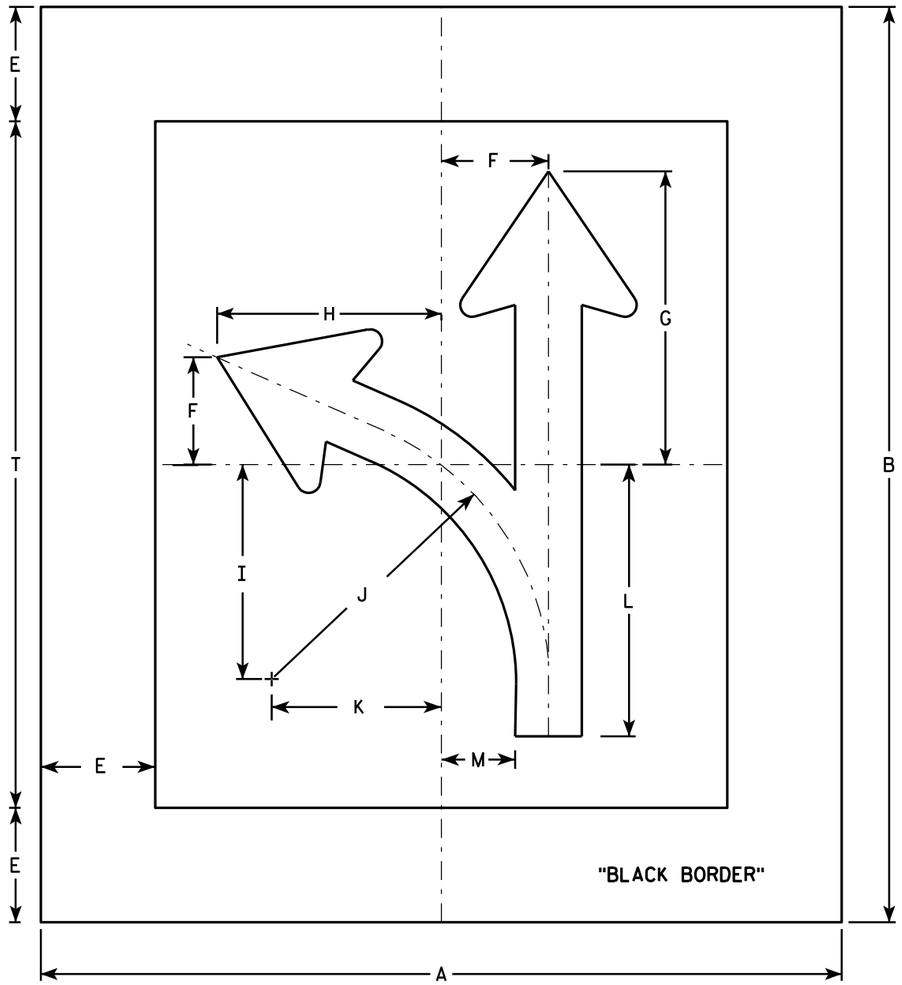
STANDARD SIGN
R3-5X

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 376 R3-5X.3

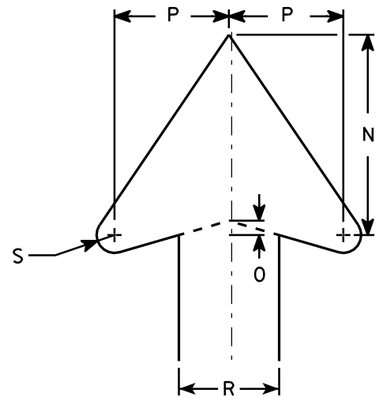
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



R3-6L

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. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. R3-6R is the same as R3-6L except curved portion of arrow points right.
5. The 6" border is non-reflective black.



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	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
3																											
4																											
5																											

STANDARD SIGN
R3-6

WISCONSIN DEPT OF TRANSPORTATION

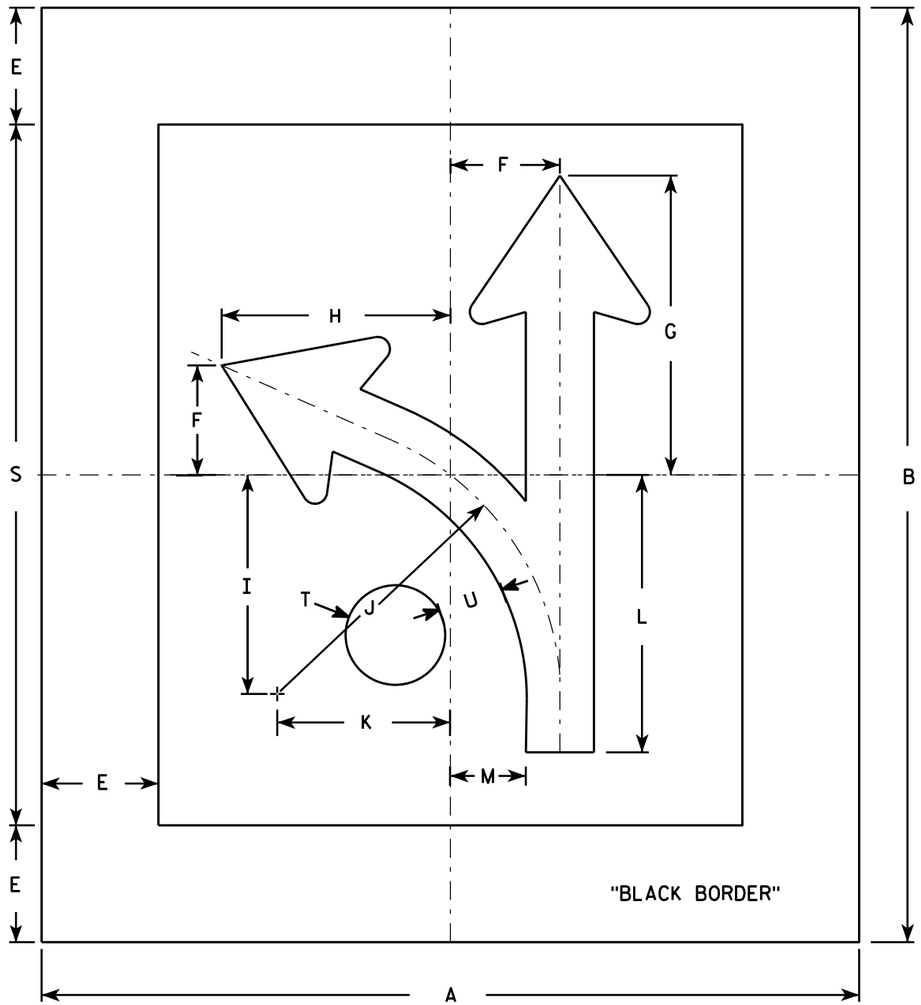
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-6.5

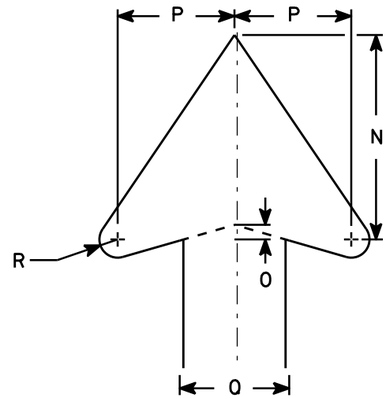
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 377 | E

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. When base material is metal, the corners shall be rounded.
4. The 6" border is non-reflective black.



R3-6X



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	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
3																											
4																											
5																											

STANDARD SIGN
R3-6X

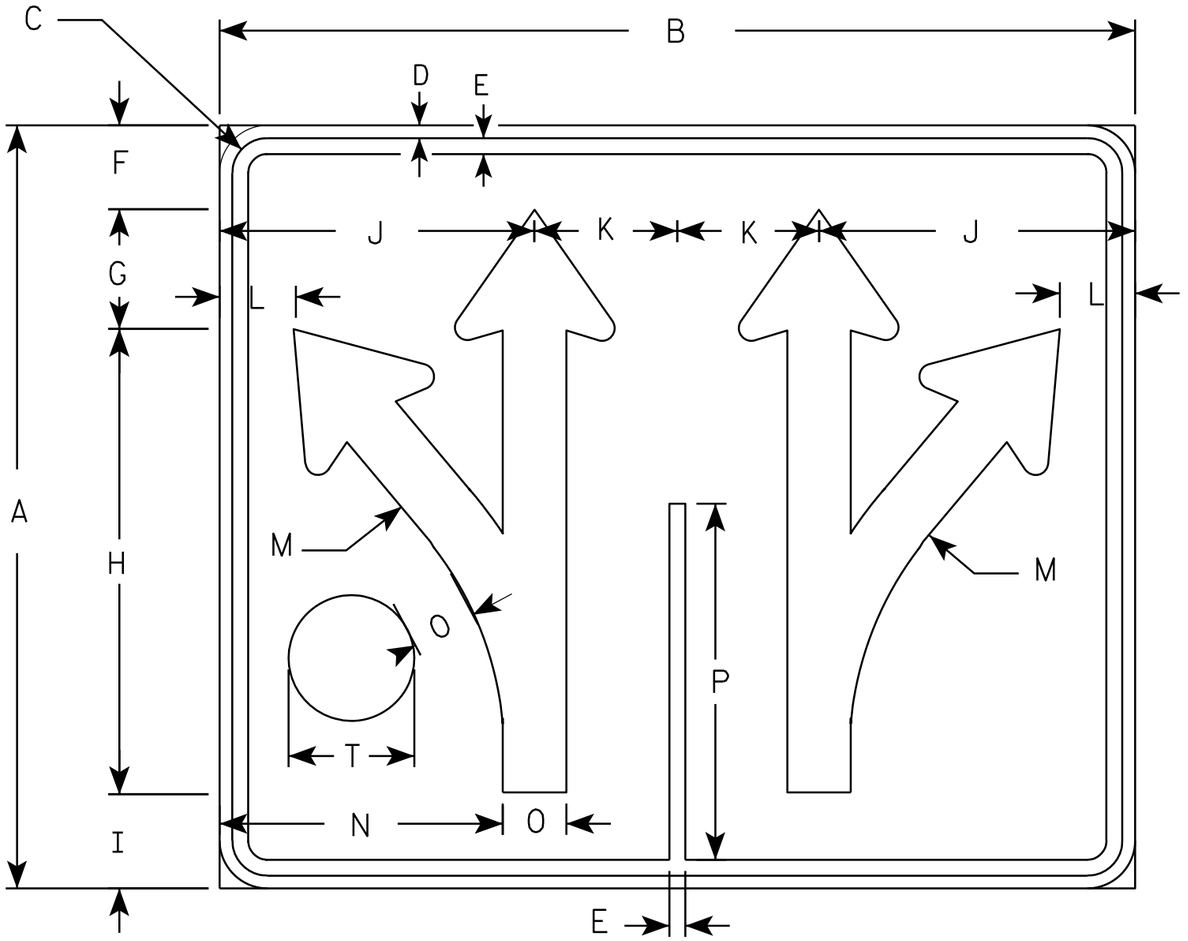
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE R3-6X.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

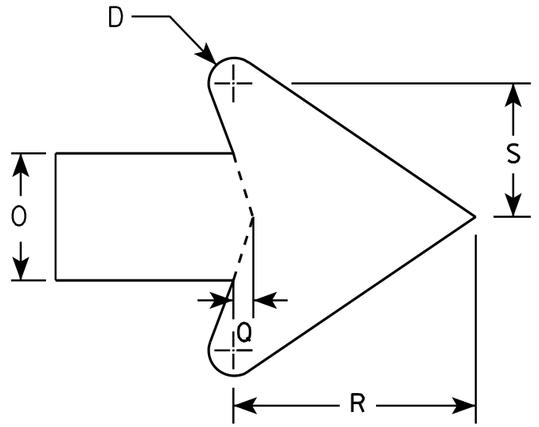
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R36X.DGN PLOT DATE : 05-FEB-2015 14:49 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.783368:1.000000
WISDOT/CADDS SHEET 42



R3-8CC

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.



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	30	36	1 3/8	1/2	5/8	3 1/4	4 3/4	18 1/4	3 3/4	12 3/8	5 5/8	3	13 1/4	11 1/8	2 1/2	14	3/8	4 3/4	2 5/8	5							7.5
2M	30	36	1 3/8	1/2	5/8	3 1/4	4 3/4	18 1/4	3 3/4	12 3/8	5 5/8	3	13 1/4	11 1/8	2 1/2	14	3/8	4 3/4	2 5/8	5							7.5
3																											
4																											

STANDARD SIGN
R3-8CC

WISCONSIN DEPT OF TRANSPORTATION

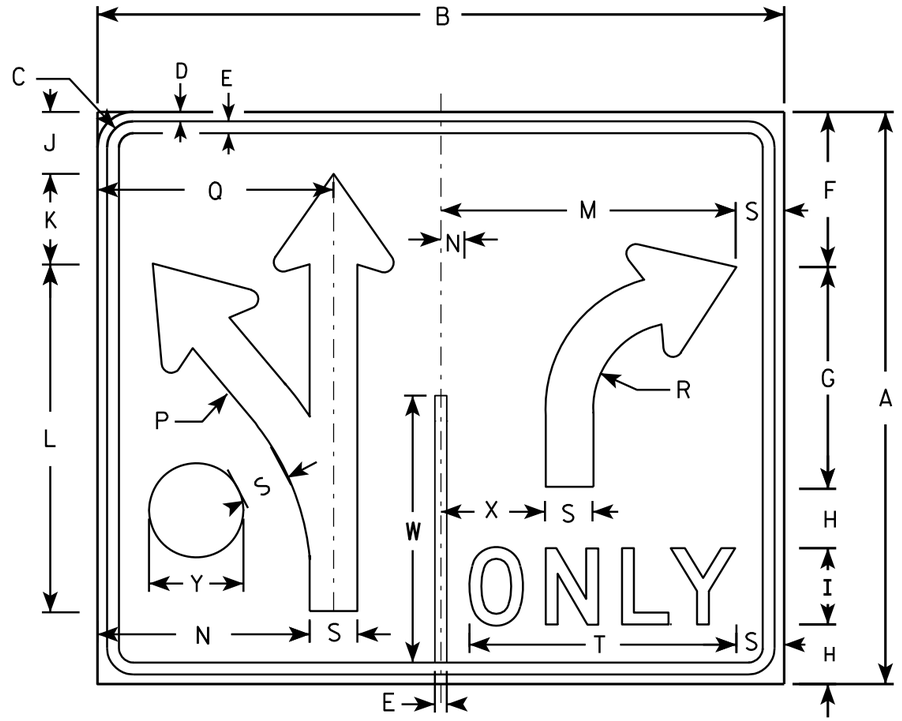
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8CC.2

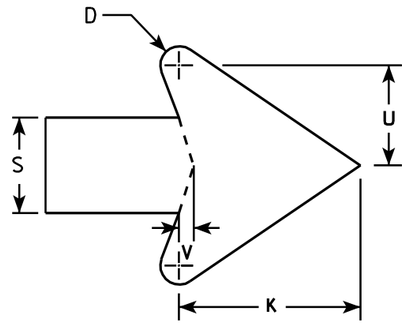
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 379	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R38CC.DGN PLOT DATE : 18-MAR-2011 12:37 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42



R3-8DD



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.
5. R3-8B & R3-8C is the same but reversed.

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	15 1/2	1 1/4		13 1/4	12 3/8	4 1/2	2 1/2	14	2 5/8	3/8	14	5 1/4	4 1/4		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	15 1/2	1 1/4		13 1/4	12 3/8	4 1/2	2 1/2	14	2 5/8	3/8	14	5 1/4	4 1/4		7.5
3																											

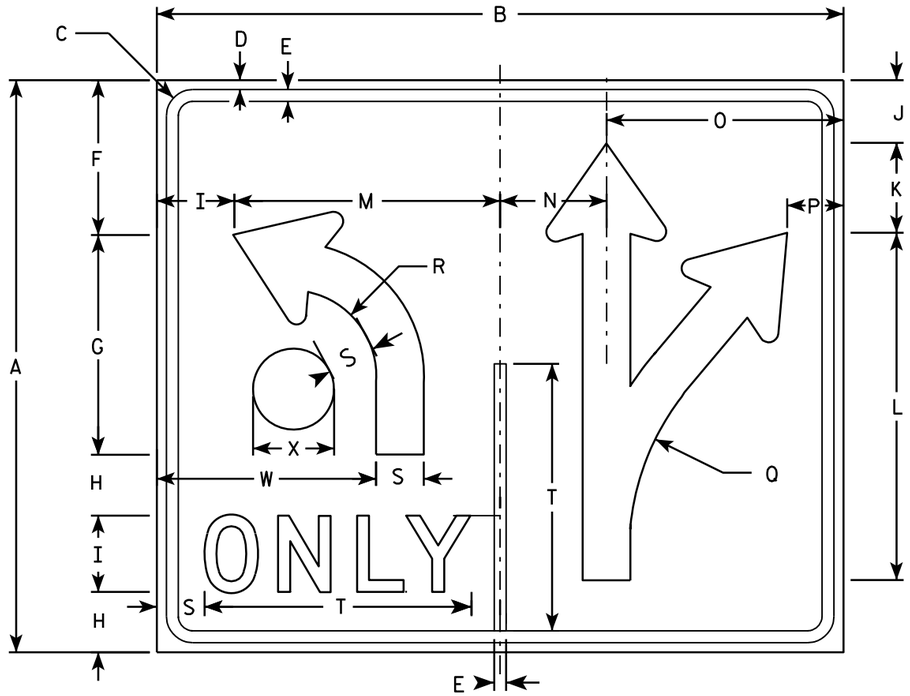
STANDARD SIGN
R3-8DD

WISCONSIN DEPT OF TRANSPORTATION

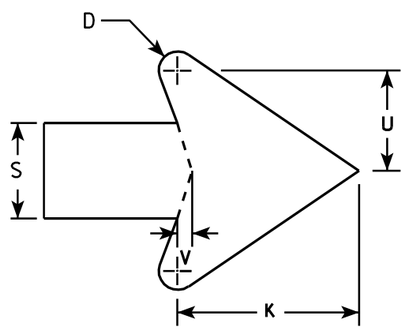
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8DD.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 380 | E



R3-8EE



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.

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	11 1/2	4 1/4			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	11 1/2	4 1/4			7.5
3																											
4																											
5																											

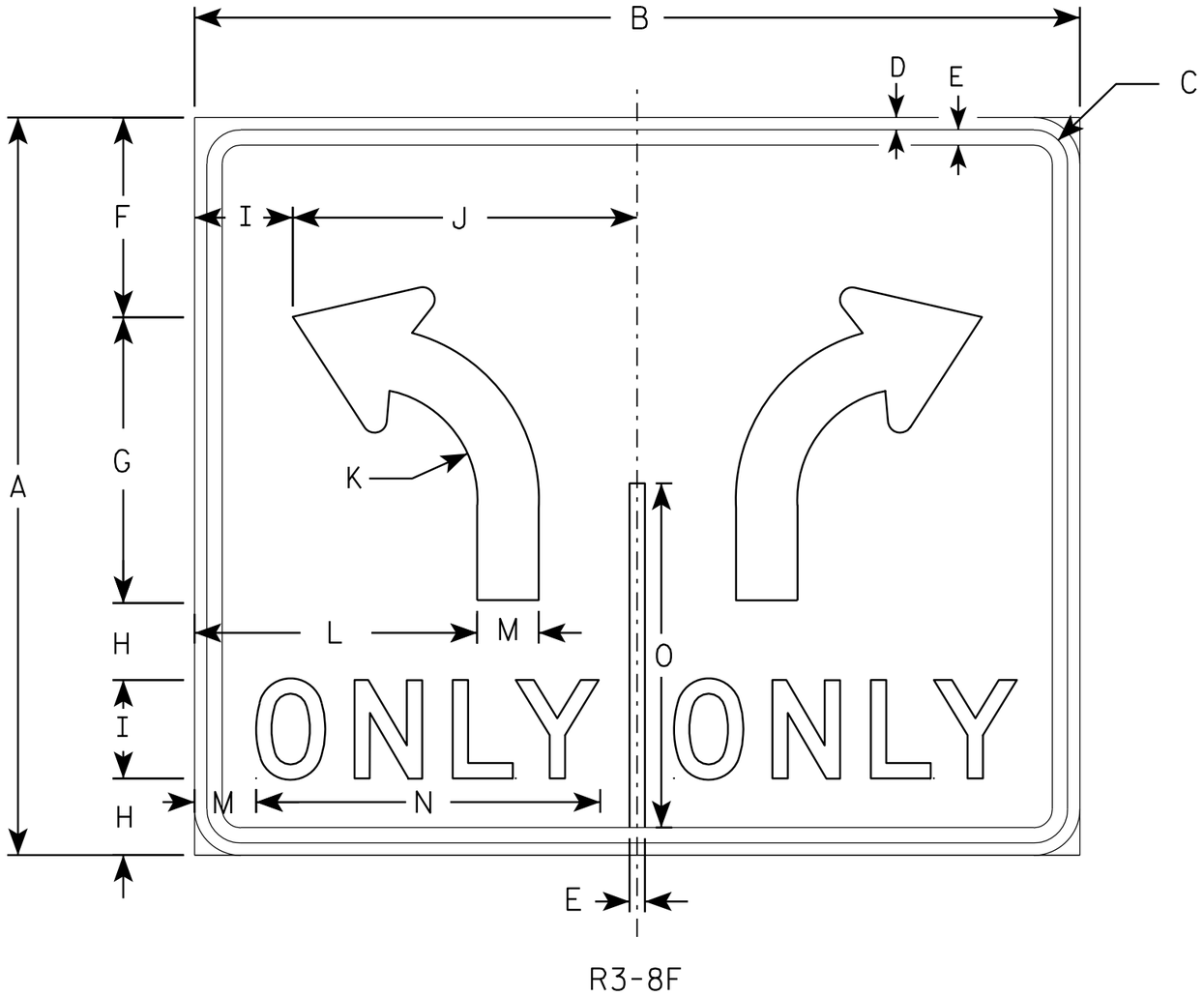
STANDARD SIGN
R3-8EE

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8EE.2

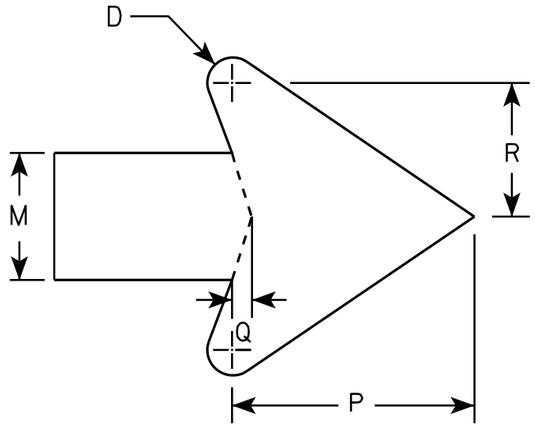
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 381	E



R3-8F

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.



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	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	14	4 1/2	11 1/2	2 1/2	14	14	4 3/4	3/8	2 5/8									7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	14	4 1/2	11 1/2	2 1/2	14	14	4 3/4	3/8	2 5/8									7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	21	7 1/4	17 1/4	3 3/4	20 5/8	22 3/8	7 1/8	5/8	4									18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	21	7 1/4	17 1/4	3 3/4	20 5/8	22 3/8	7 1/8	5/8	4									18.0

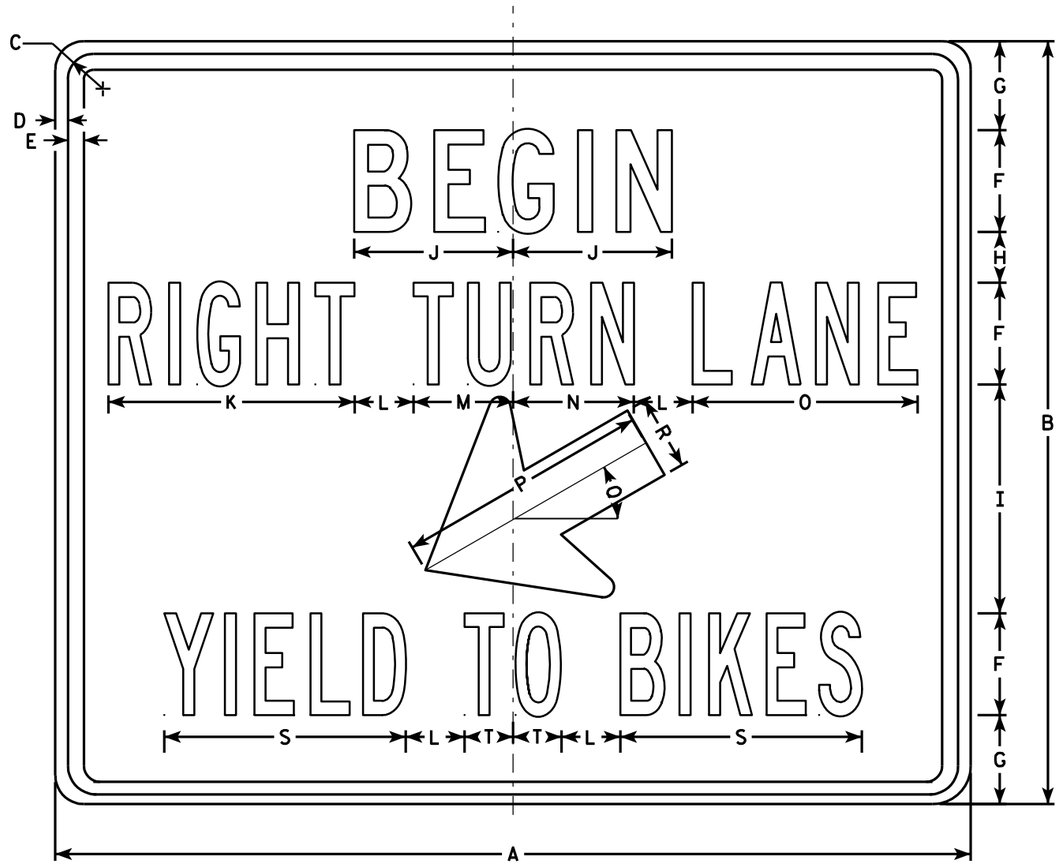
STANDARD SIGN
R3-8F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8F.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 382 | E



R4-4

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 - 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. Line 1 is Series C
   Lines 2 & 3 are 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	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
2M	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
3																											
4																											
5																											

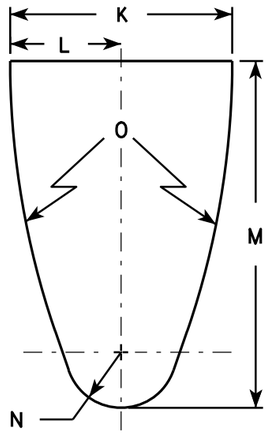
STANDARD SIGN
R4-4

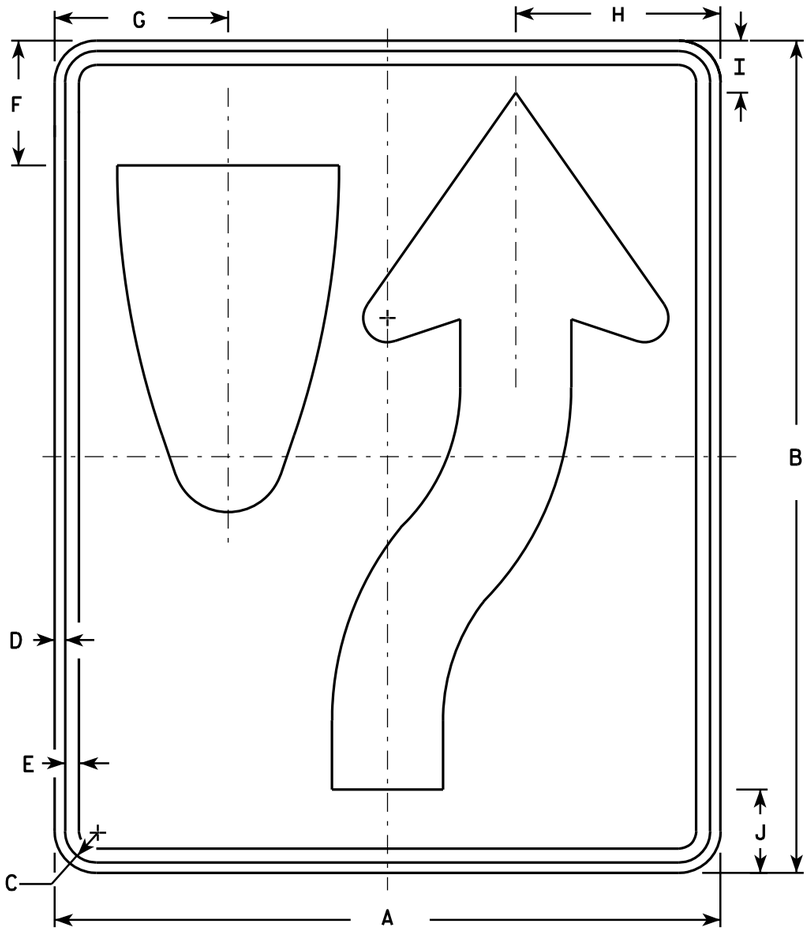
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 383 | E

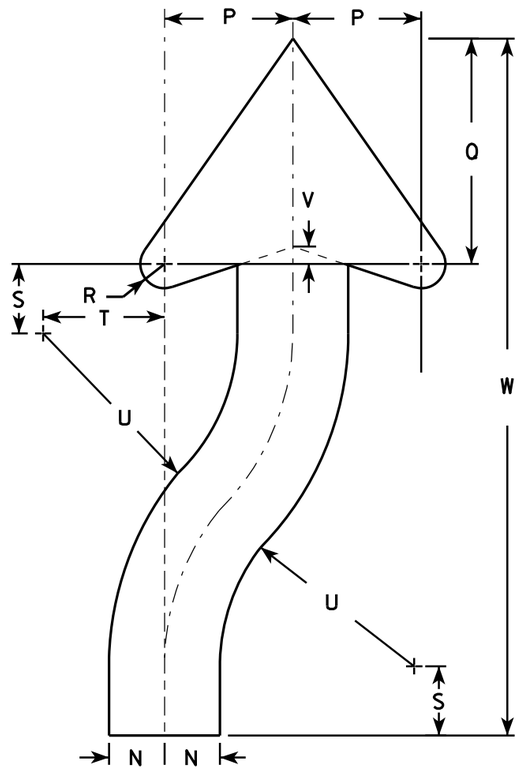




R4-7

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

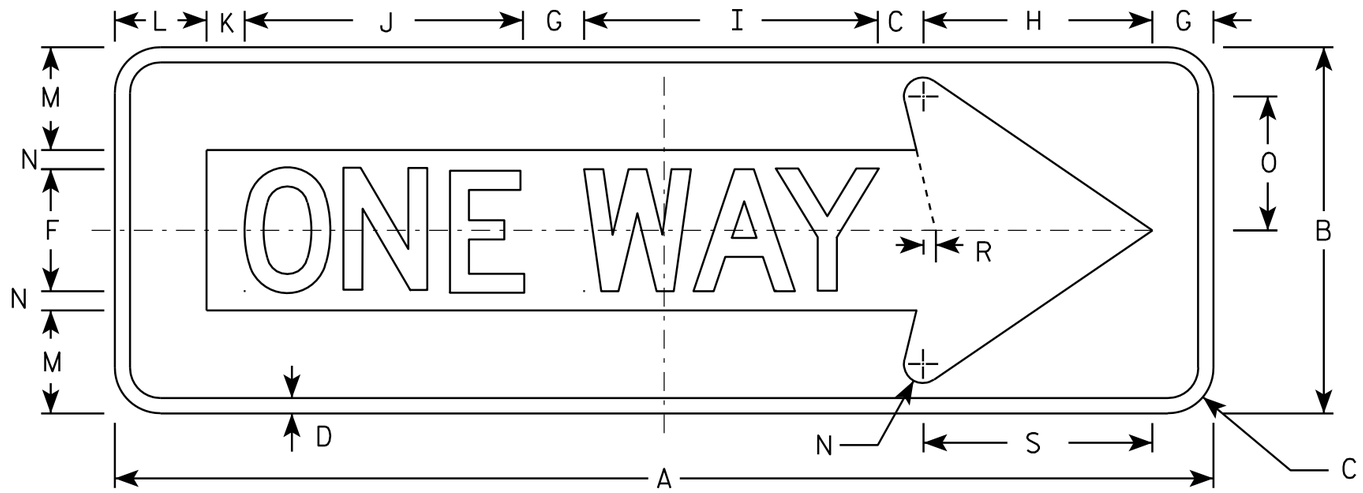
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

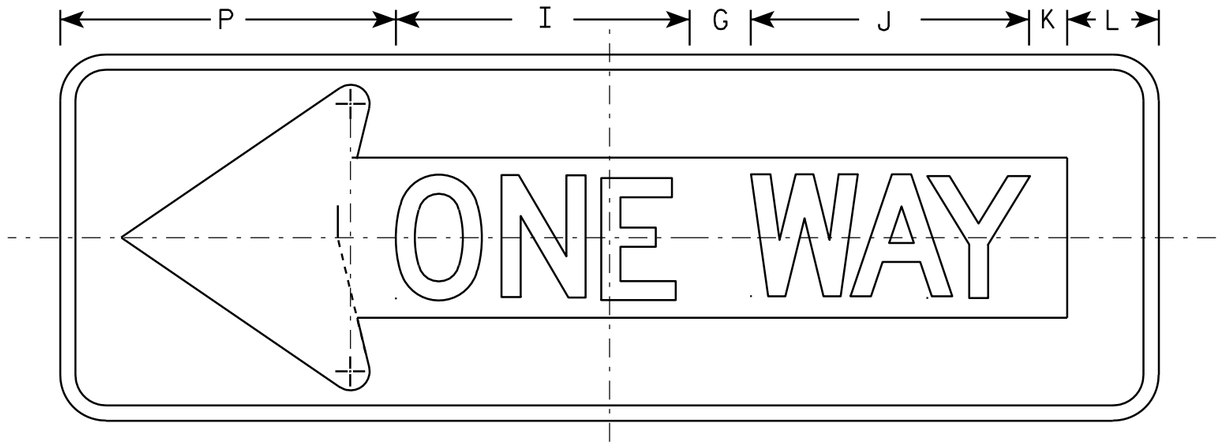
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 384	E



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

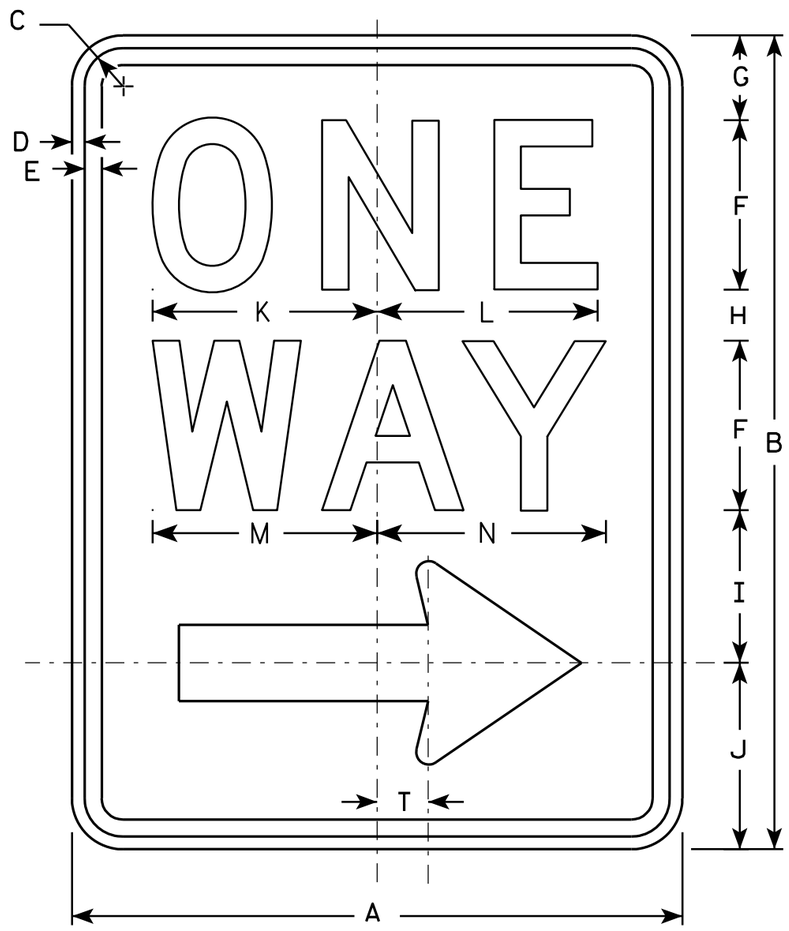
DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

SHEET NO: 385 E

7

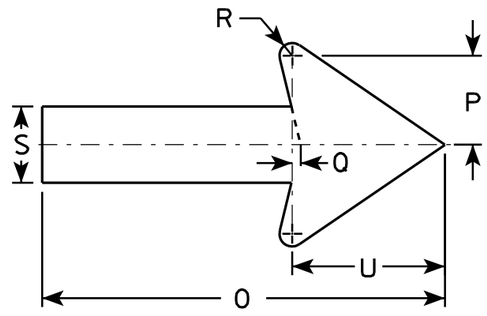
7



R6-2R

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.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

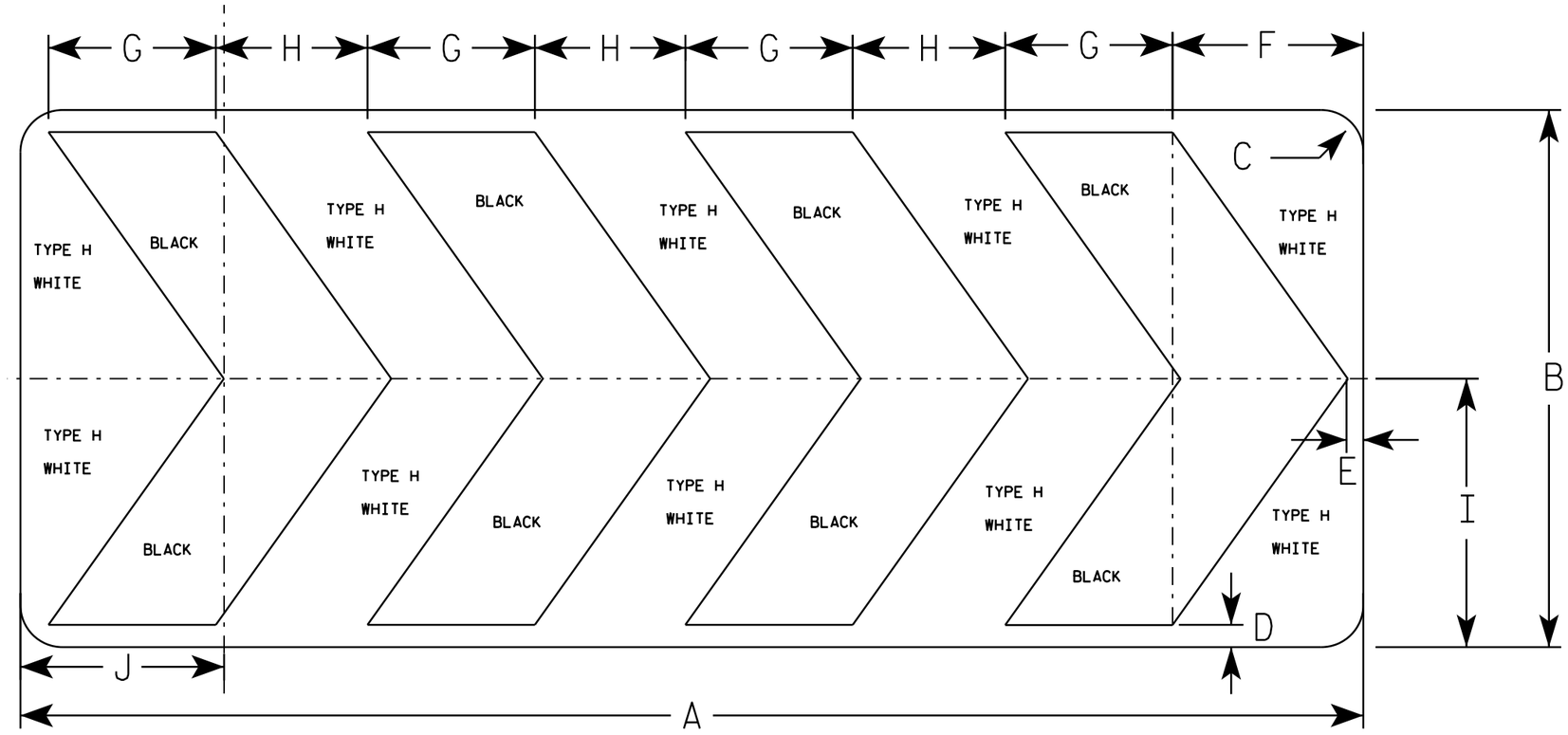
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 386	E

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

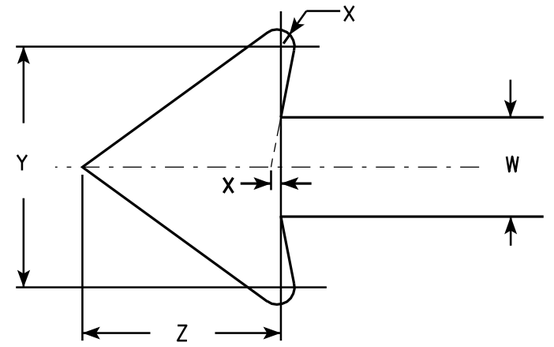
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

R7-53

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 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. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-53D (double arrow)
   R7-53L (left arrow)
   R7-53R (right arrow)



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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 5/8	1 3/4	1/4	4 1/2	2 3/8	3 7/8	3/4	1/8	1 3/4	1 1/2	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	3 3/8	1 1/2	5/8	5 3/8	3	5 7/8	1 1/8	1/4	2 5/8	2 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	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	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	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	5.0
4																											
5																											

STANDARD SIGN
R7-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-53.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 388	E

R9-9

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	30	18	1 3/4	1/2	1/2	4	3 1/2	3	10 3/4	8 1/8																	3.75
2M	30	18	1 3/4	1/2	1/2	4	3 1/2	3	10 3/4	8 1/8																	3.75
3																											
4																											
5																											

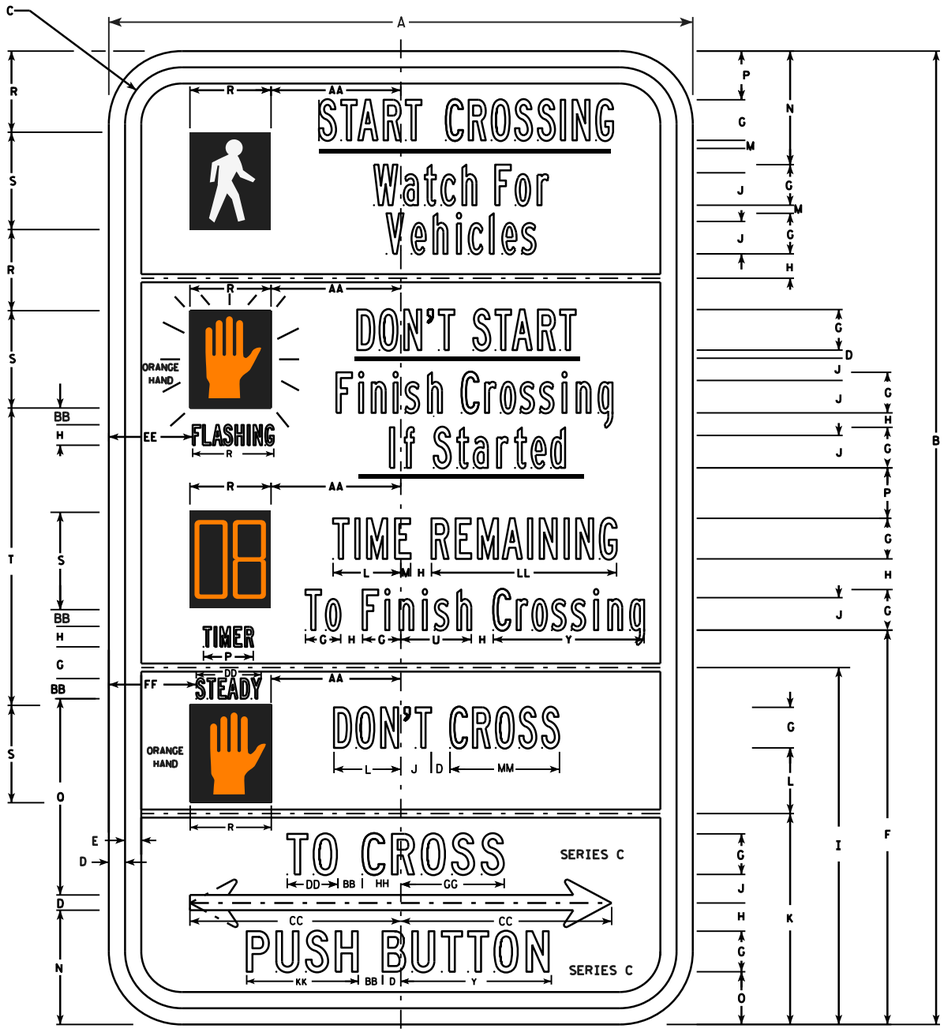
STANDARD SIGN
R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/2011 PLATE NO. R9-9.5

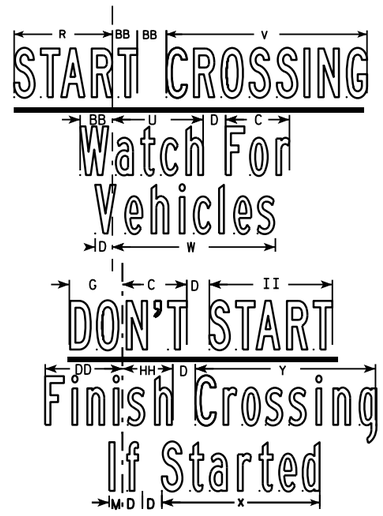
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 389	E



R10-3E

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK except Hand Symbol which is Orange with black background.
3. Message Series - B or as noted on the sign.
4. R10-3ER (right arrow)
   R10-3EL (left arrow)
   R10-3ED (double arrow)



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	6	10	1/2	1/8	1/8	4	3/8	1/4	4 1/8	1/4	2 1/8	3/4	1/8	1 1/8	1/2	1/2	2 1/4	7/8	1	3	3/4	1 3/4	1 5/8	1 3/8	1 1/2	5/8	0.42
2S	9	15	7/8	1/4	1/4	6 1/8	5/8	3/8	5 1/2	1/2	3 1/4	1	1/8	1 3/4	7/8	3/4	3	1 1/4	1 1/2	4 5/8	1 1/8	2 5/8	2 1/8	2	2 3/8	1 3/8	0.94
2M	9	15	7/8	1/4	1/4	6 1/8	5/8	3/8	5 1/2	1/2	3 1/4	1	1/8	1 3/4	7/8	3/4	3	1 1/4	1 1/2	4 5/8	1 1/8	2 5/8	2 1/8	2	2 3/8	1 3/8	0.94
3																											
4																											

SIZE	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU	VV	WW	XX	YY	ZZ	Area sq. ft.
1	1 3/8	1/4	2 1/4	1/2	7/8	7/8	1 1/8	3/8	1	1/2	1 1/8	1 7/8	1 1/8														
2S	2	3/8	3 1/4	1	1 1/4	1 3/8	1 5/8	5/8	1 5/8	3/4	1 3/4	2 7/8	1 5/8														
2M	2	3/8	3 1/4	1	1 1/4	1 3/8	1 5/8	5/8	1 5/8	3/4	1 3/4	2 7/8	1 5/8														
3																											
4																											

STANDARD SIGN
R10-3EL,R,D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

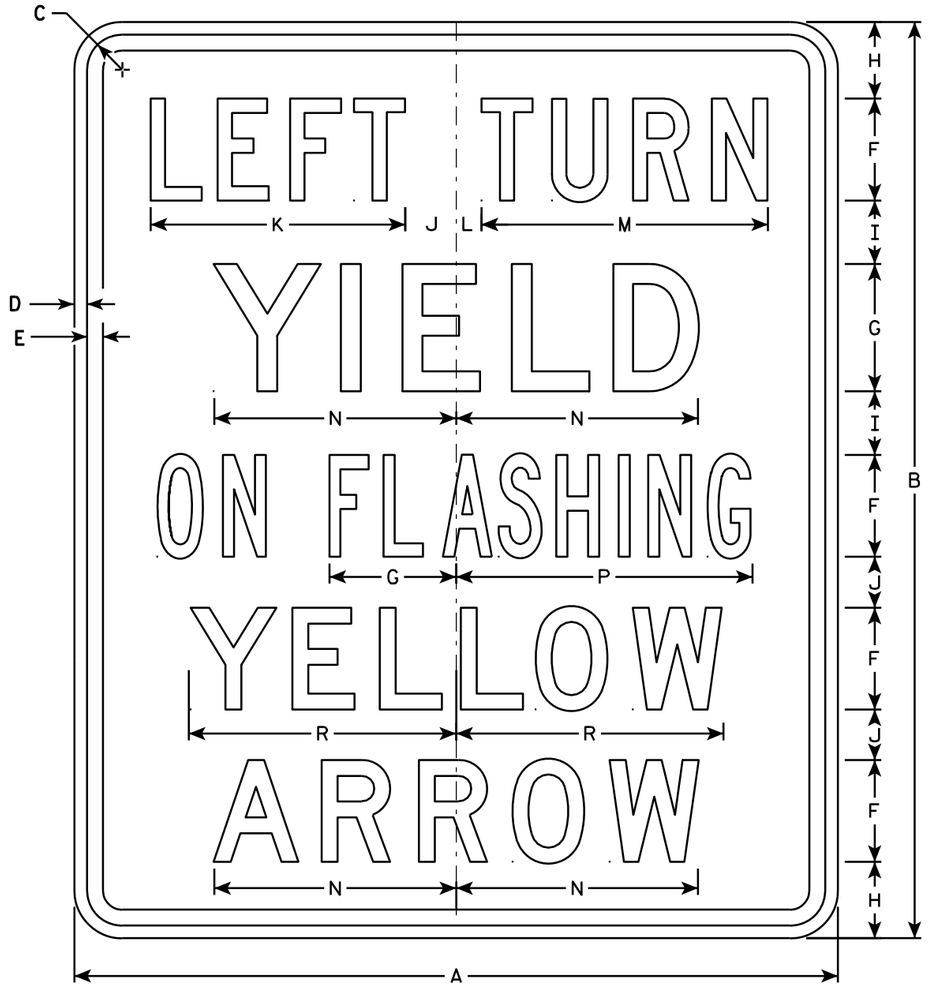
DATE 4/12/2011 PLATE R10-3E.2

PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R103E.DGN PLOT DATE : 09-APR-2014 11:22 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

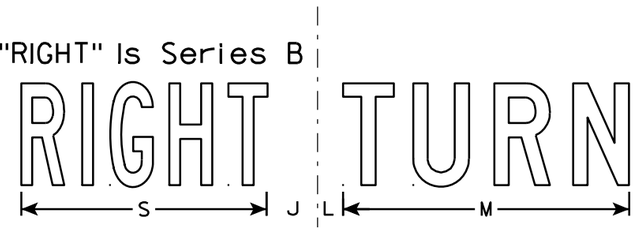


R10-50L

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 - 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. Line 1 is Series C.
   Lines 2, 4 and 5 are Series D.
   Line 3 is Series B.

"RIGHT" Is Series B



R10-50R

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	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
2M	30	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
3																											
4																											
5																											

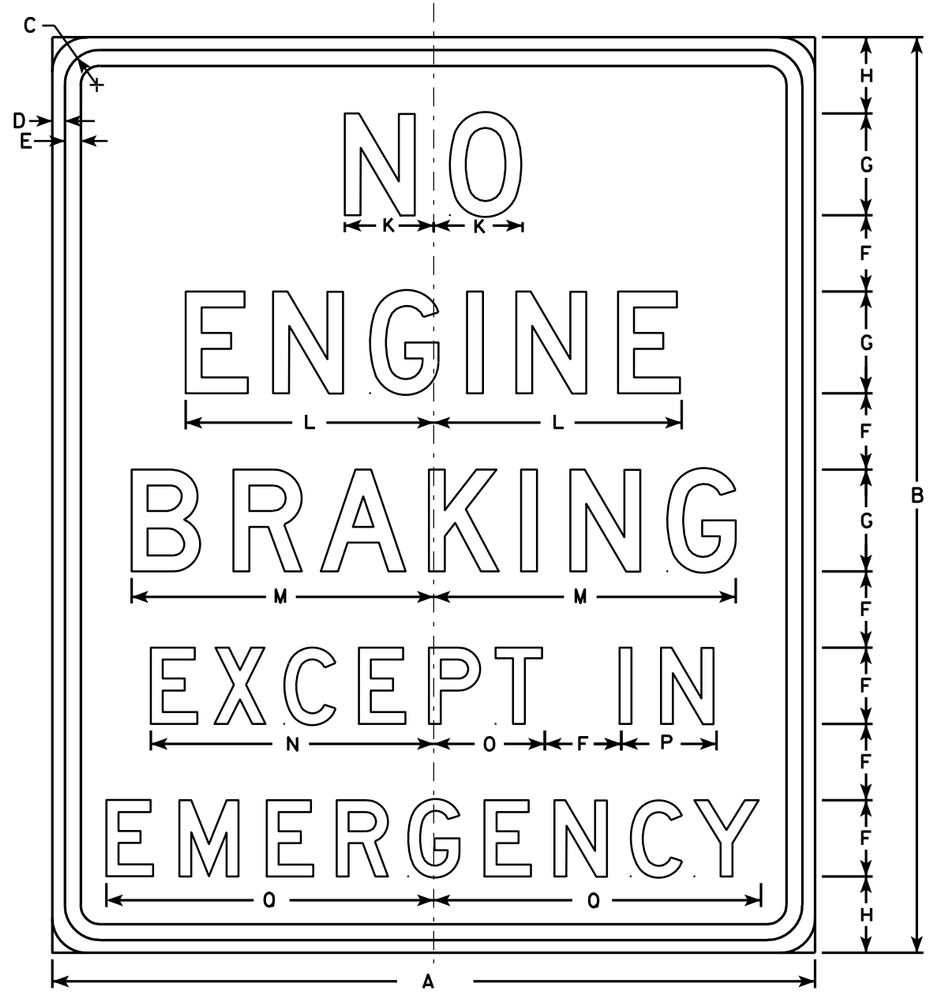
STANDARD SIGN
R10-50

WISCONSIN DEPT OF TRANSPORTATION

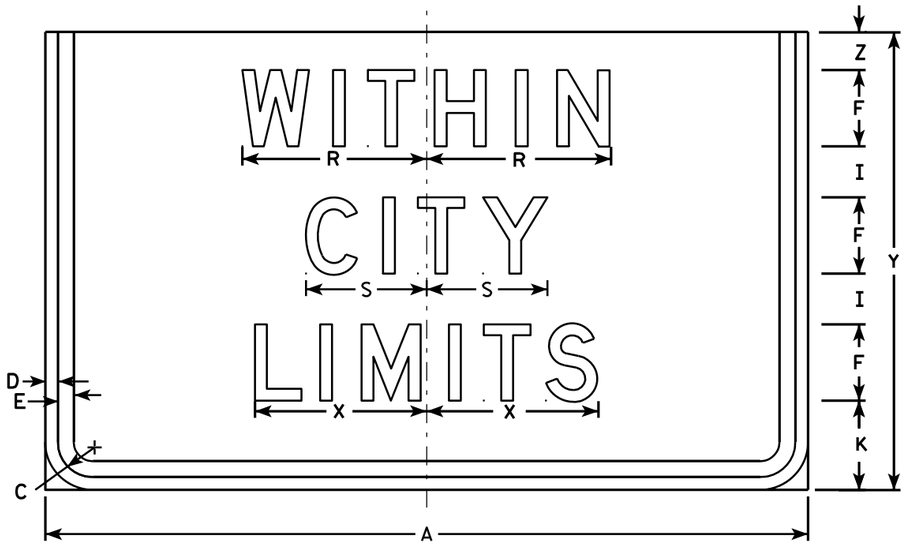
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/11/13 PLATE NO. R10-50.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 391	E



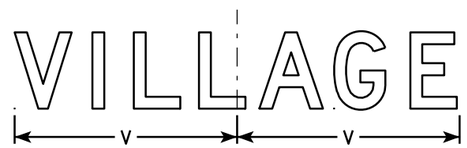
R10-64



R10-64F

NOTES

1. Signs are 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 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. Line 2 of R10-64F is Series C for "TOWNSHIP" Only



Area sq. ft.
3.75
7.0

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	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2S	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2M	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
3	42	48	1 3/8	1/2	5/8	4	5	4 1/2	3		4	12 1/4	14 7/8	14 1/8	5 1/4	4 3/4	16 1/4	9	6		11	11 1/4	1 1/2	8 1/2	24	2	14.0
4																											
5																											

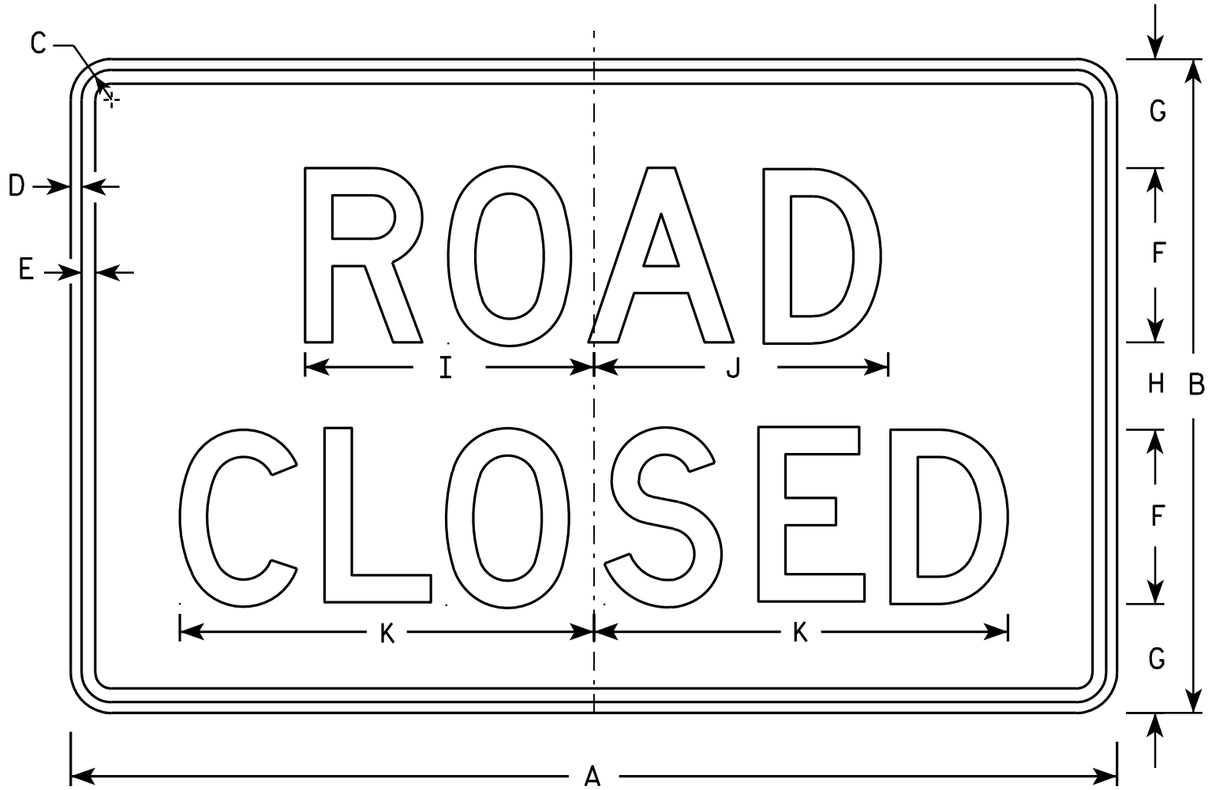
STANDARD SIGN
R10-64 & R10-64F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-64.7

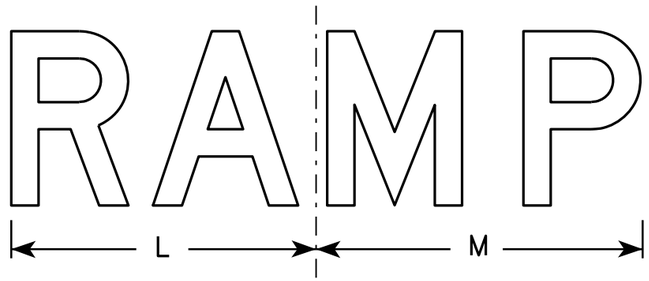
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 392	E



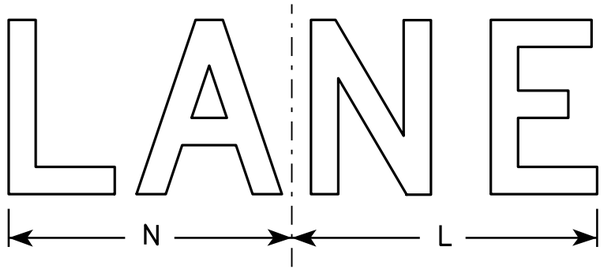
R11-2

NOTES

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



R11-2R



R11-2L

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	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

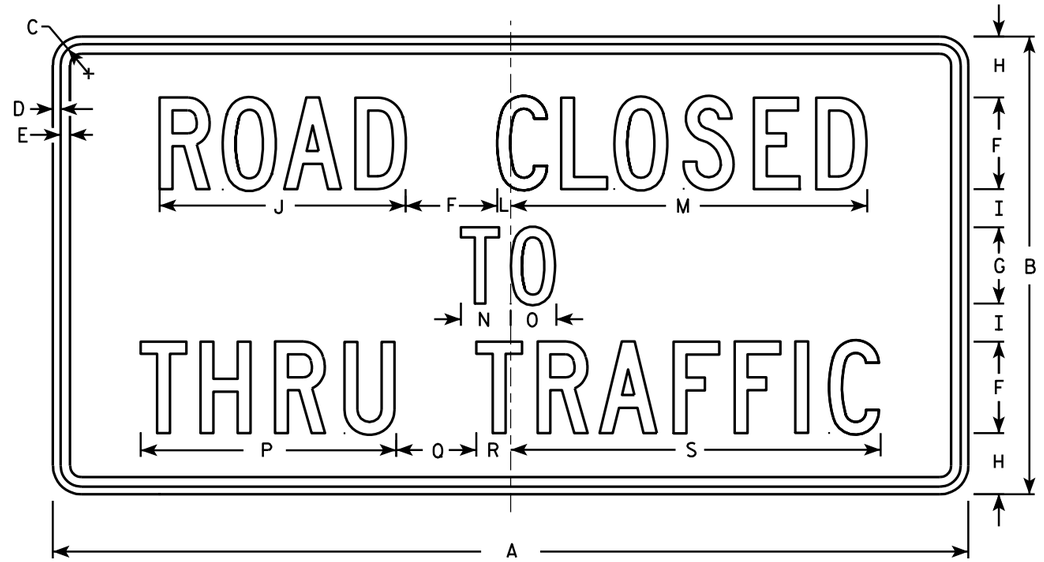
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 393	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																											

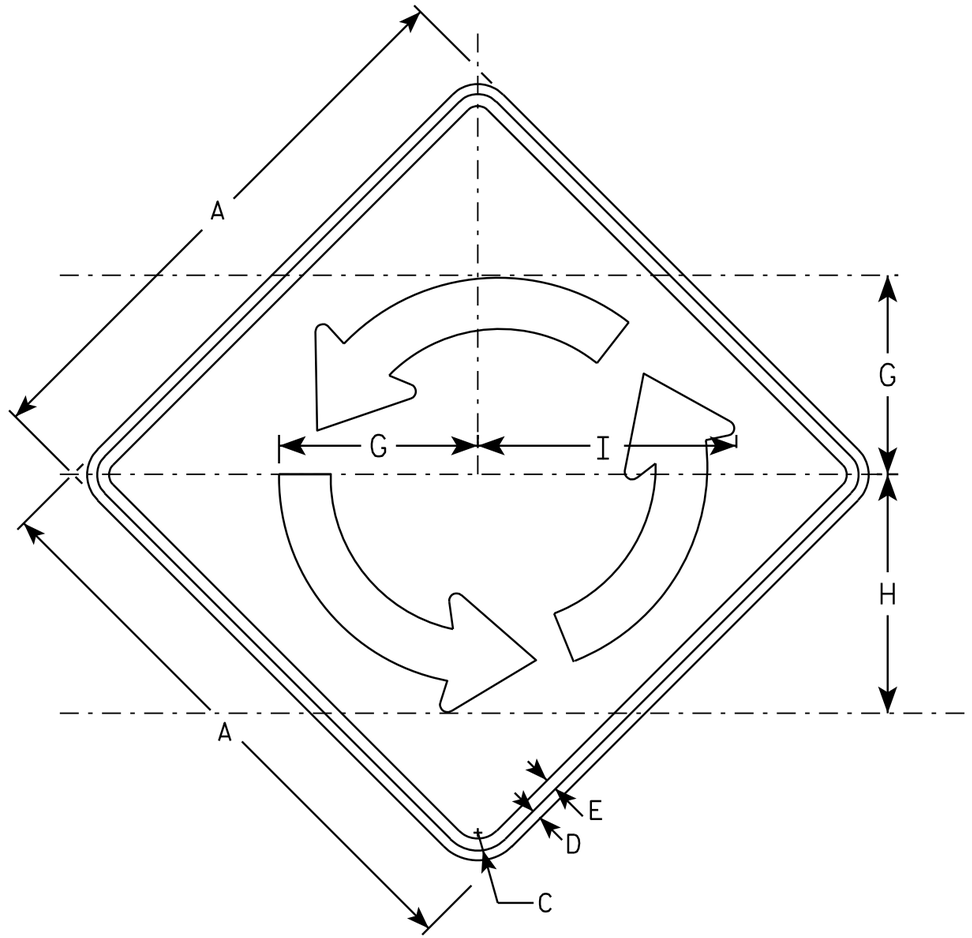
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

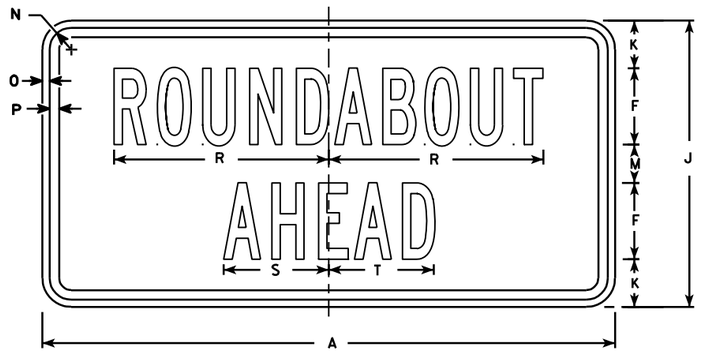
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 394	E



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

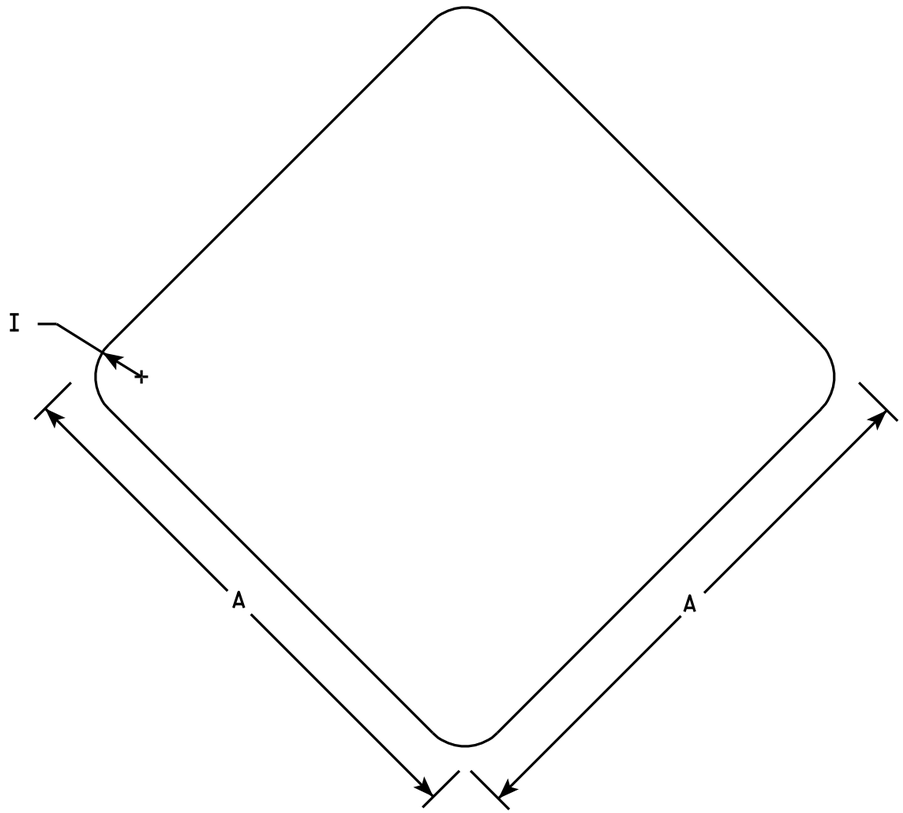
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

SHEET NO: 395 E



W5-56

NOTES

1. Sign is Type II - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

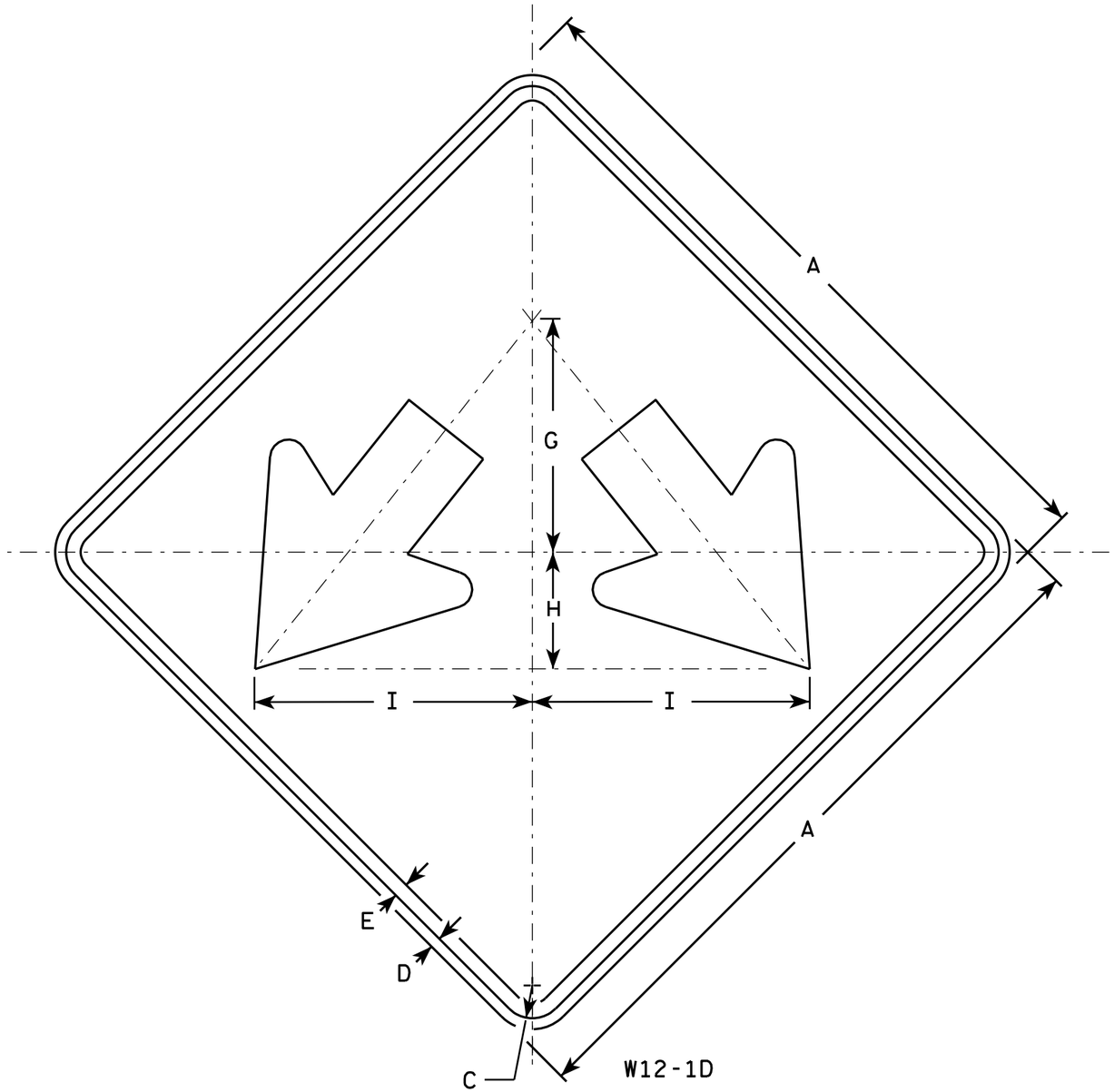
STANDARD SIGN
W5-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

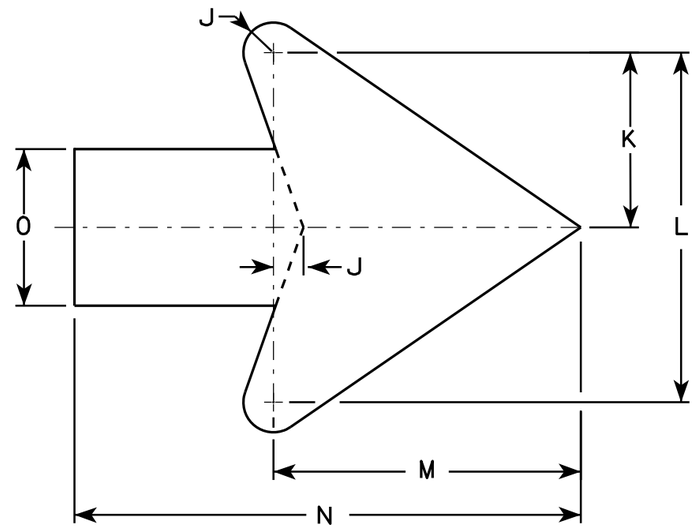
DATE 11/2/10 PLATE NO. W5-56.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 396	E



NOTES

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



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		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

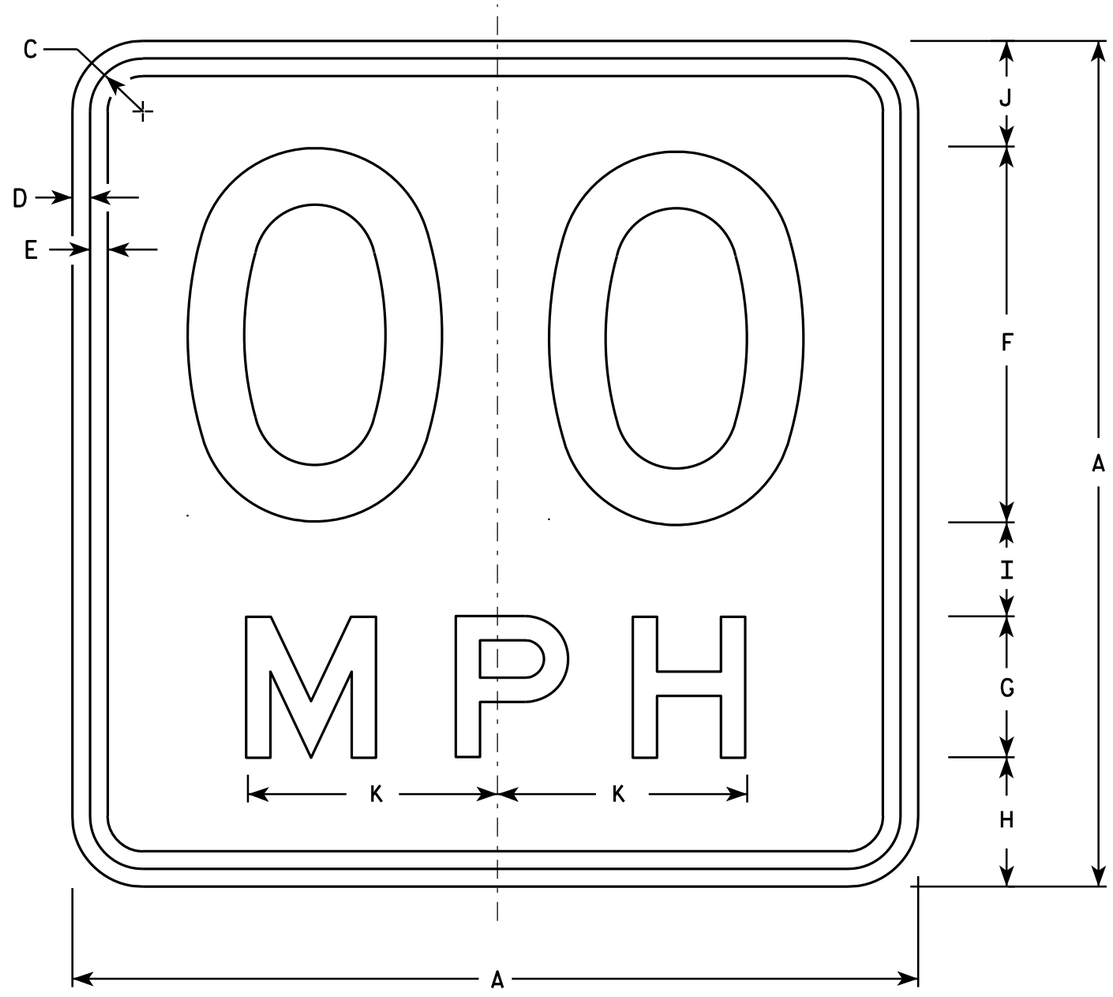
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 397	E



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

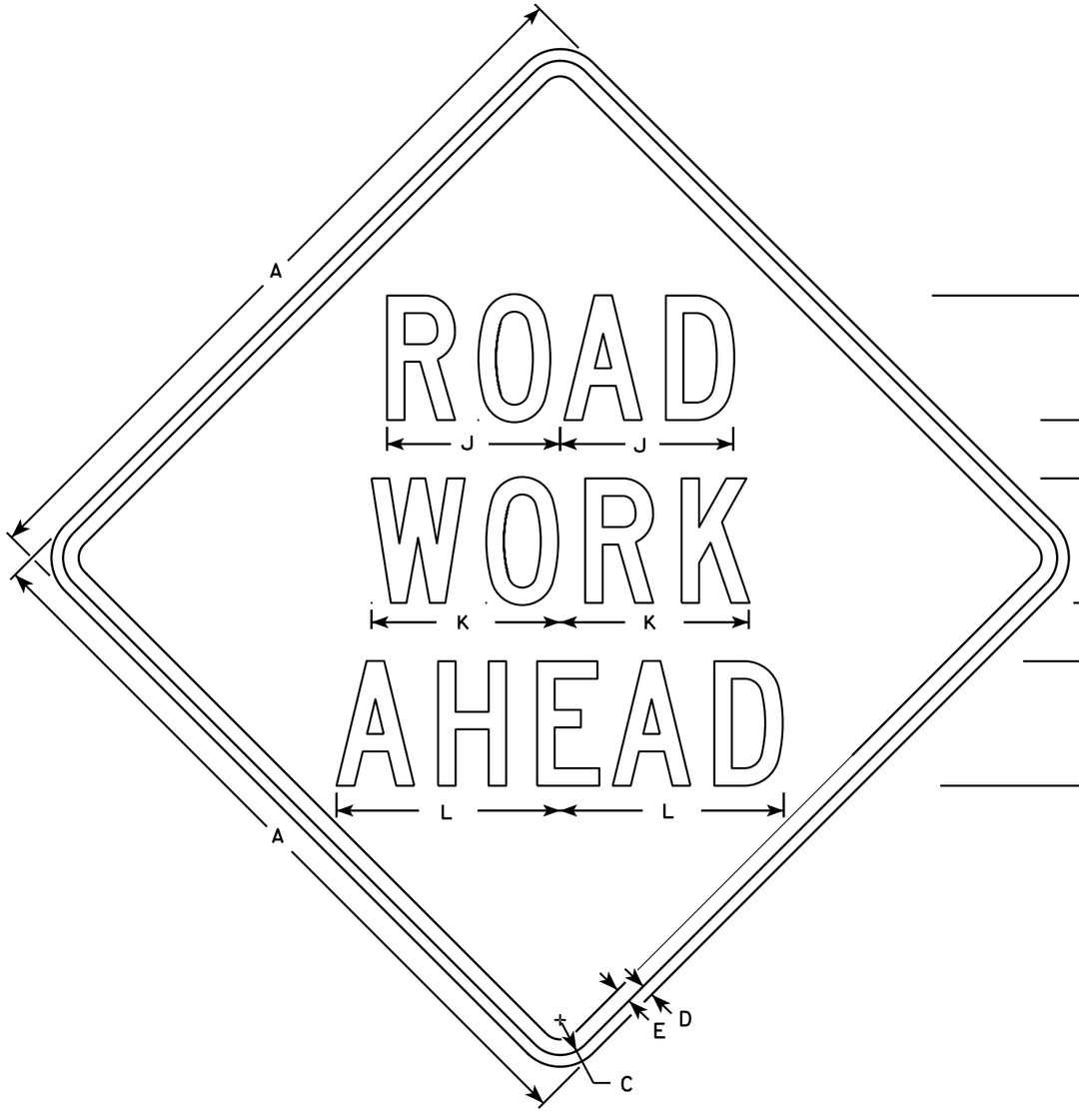
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

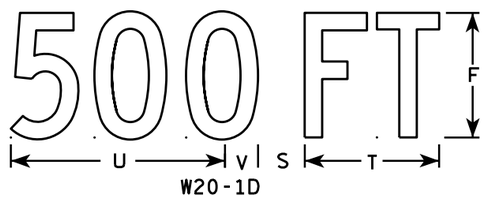
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

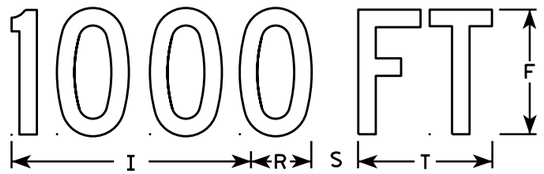
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 398 | E



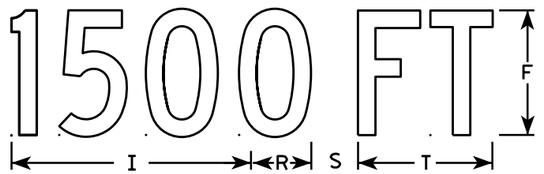
W20-1A



W20-1D



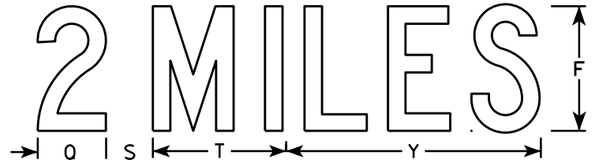
W20-1C



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

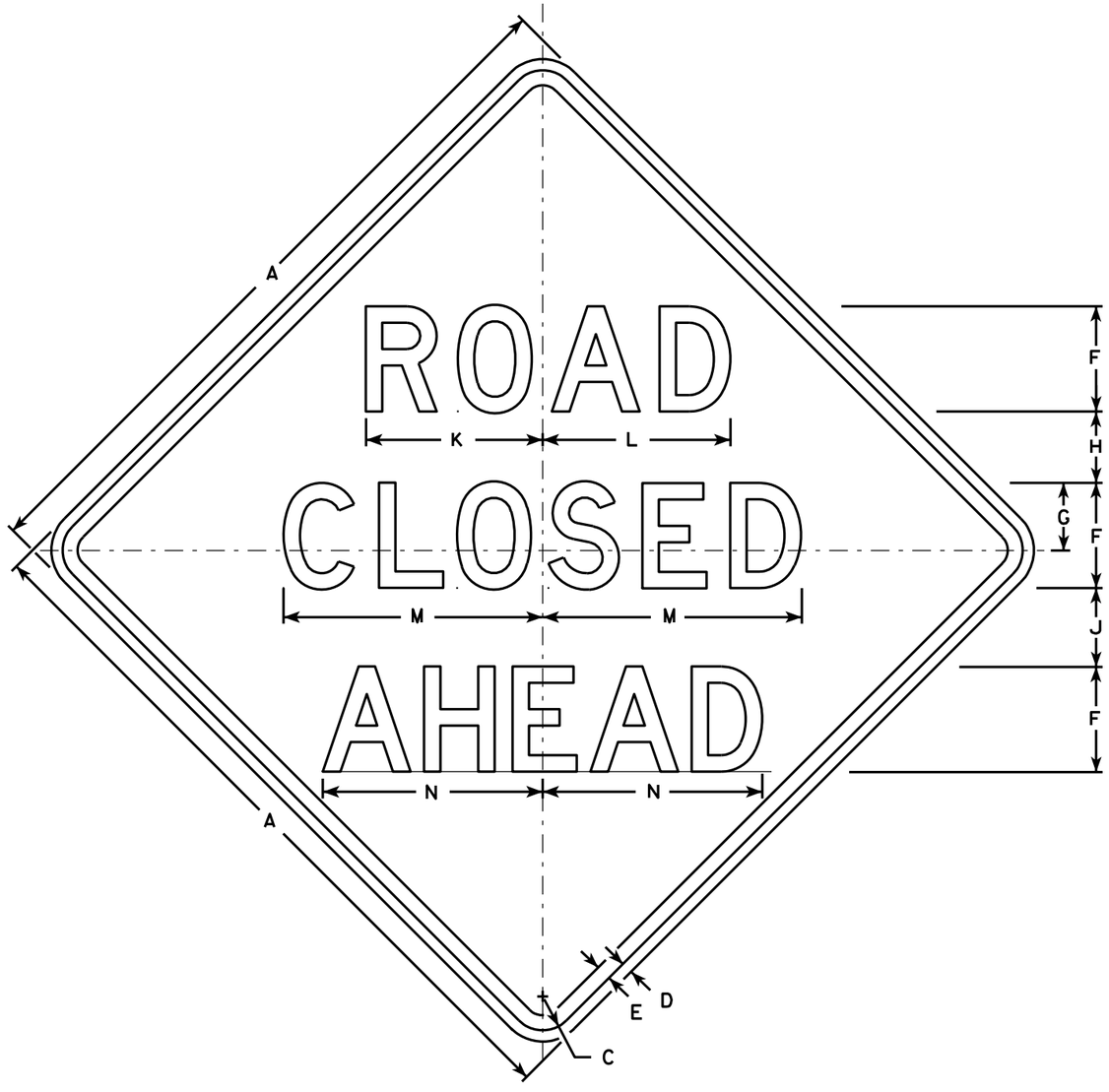
DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

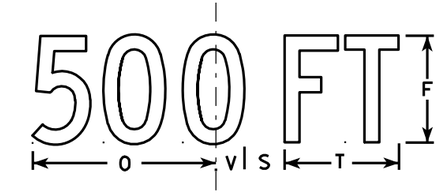
SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W201.dgn PLOT DATE : 27-MAY-2015 15:58 PLOT BY : mscsja

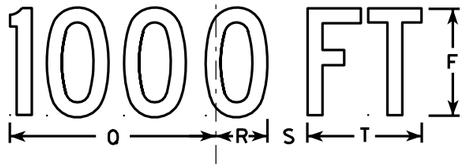
WISDOT/CADDS SHEET 42



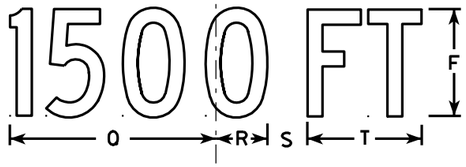
W20-3A



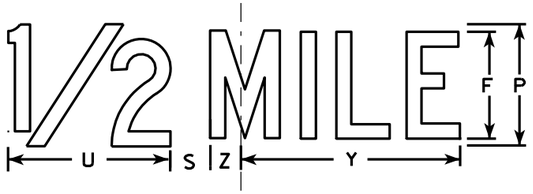
W20-3D



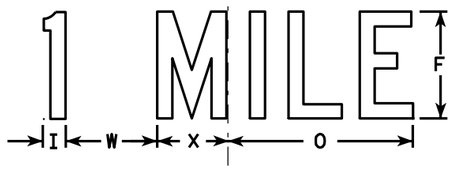
W20-3C



W20-3B



W20-3G



W20-3F

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. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

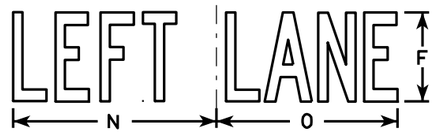
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 400 | E

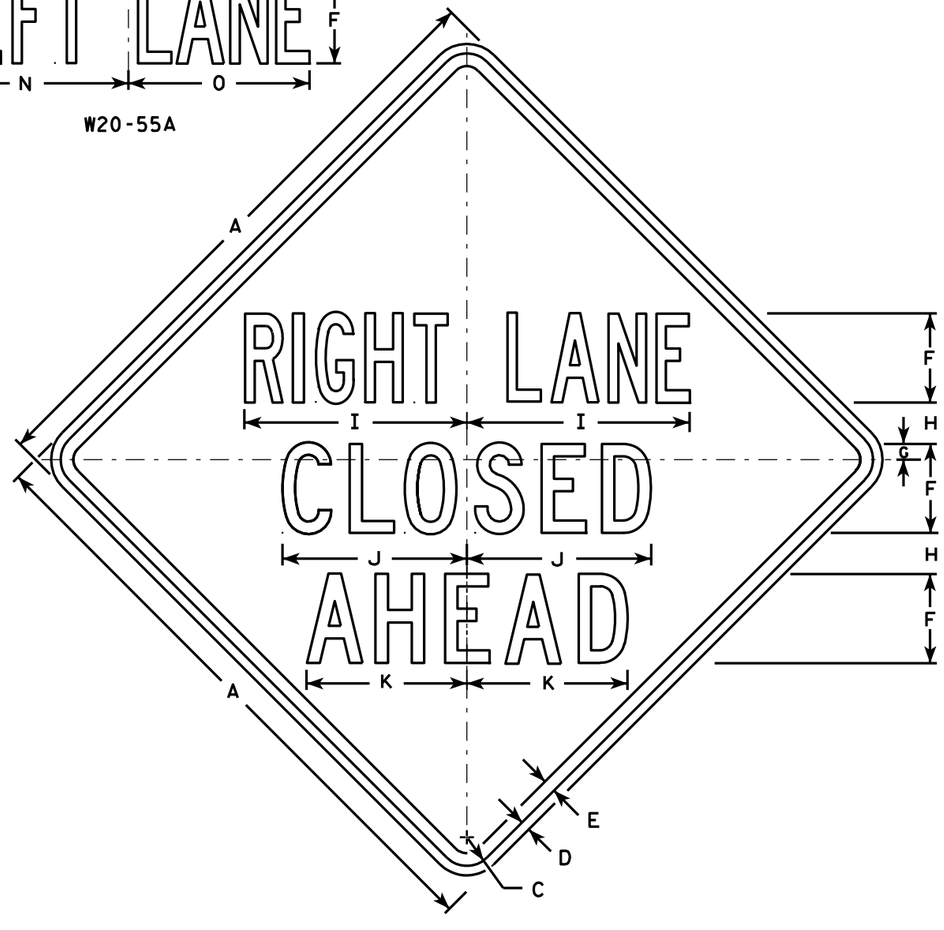
7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42

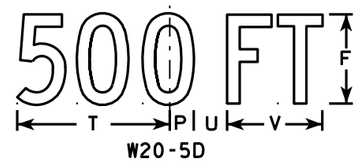
W20-56A



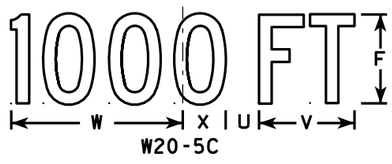
W20-55A



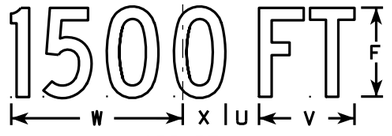
W20-5A



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

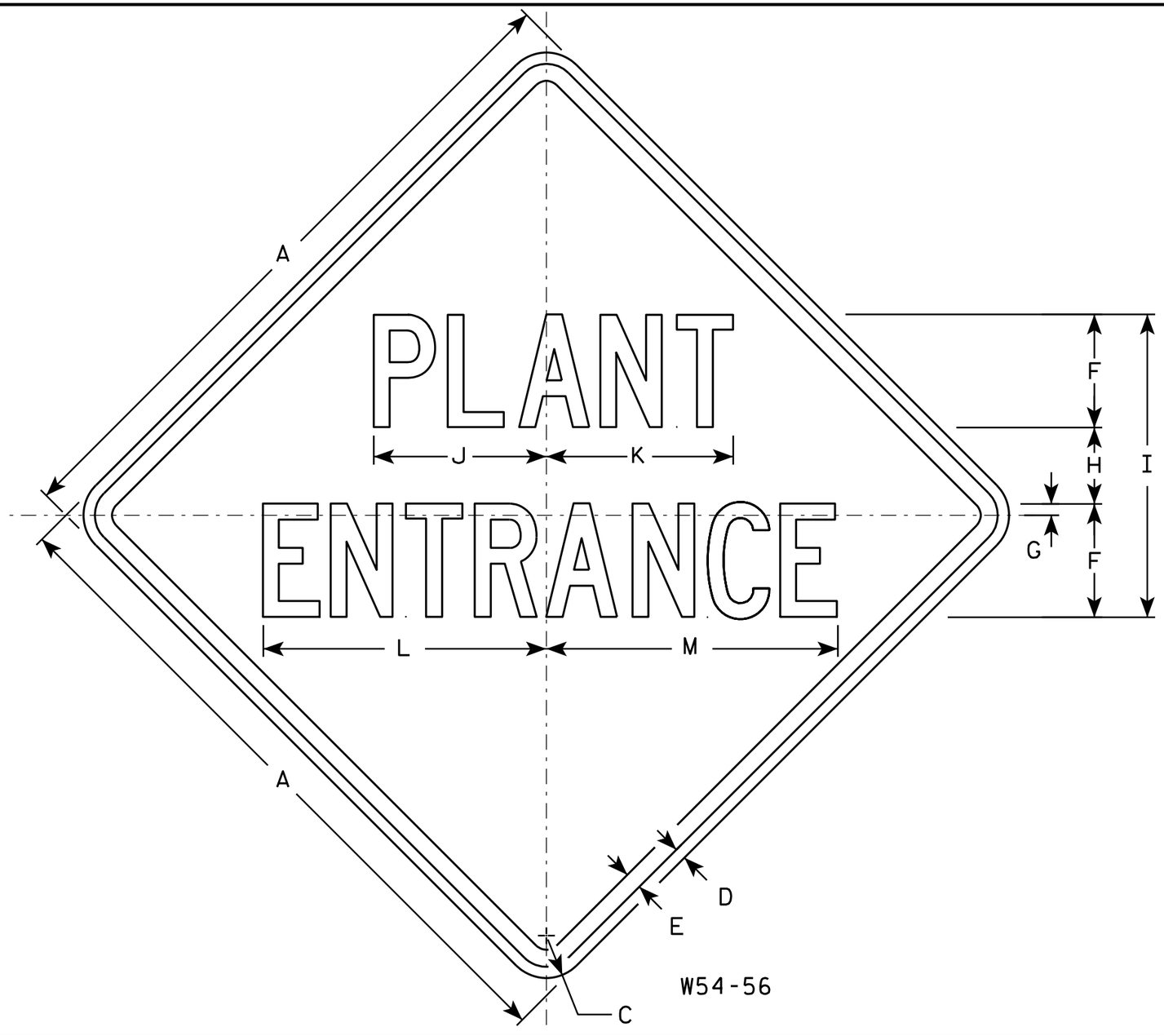
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 401	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



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 - 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	24		1 1/8	3/8	1/2	4	3/8	2 3/4	10 3/4	6 1/8	6 5/8	10	10 3/8														4.00
2S	30		1 3/8	1/2	5/8	5	1/2	3 3/8	13 3/8	7 5/8	8 1/4	12 1/2	12 7/8														6.25
2M	36		1 5/8	5/8	3/4	6	5/8	4 1/8	16 1/8	9 1/8	9 7/8	15	15 3/8														9.00
3	36		1 5/8	5/8	3/4	6	5/8	4 1/8	16 1/8	9 1/8	9 7/8	15	15 3/8														9.00
4																											
5																											

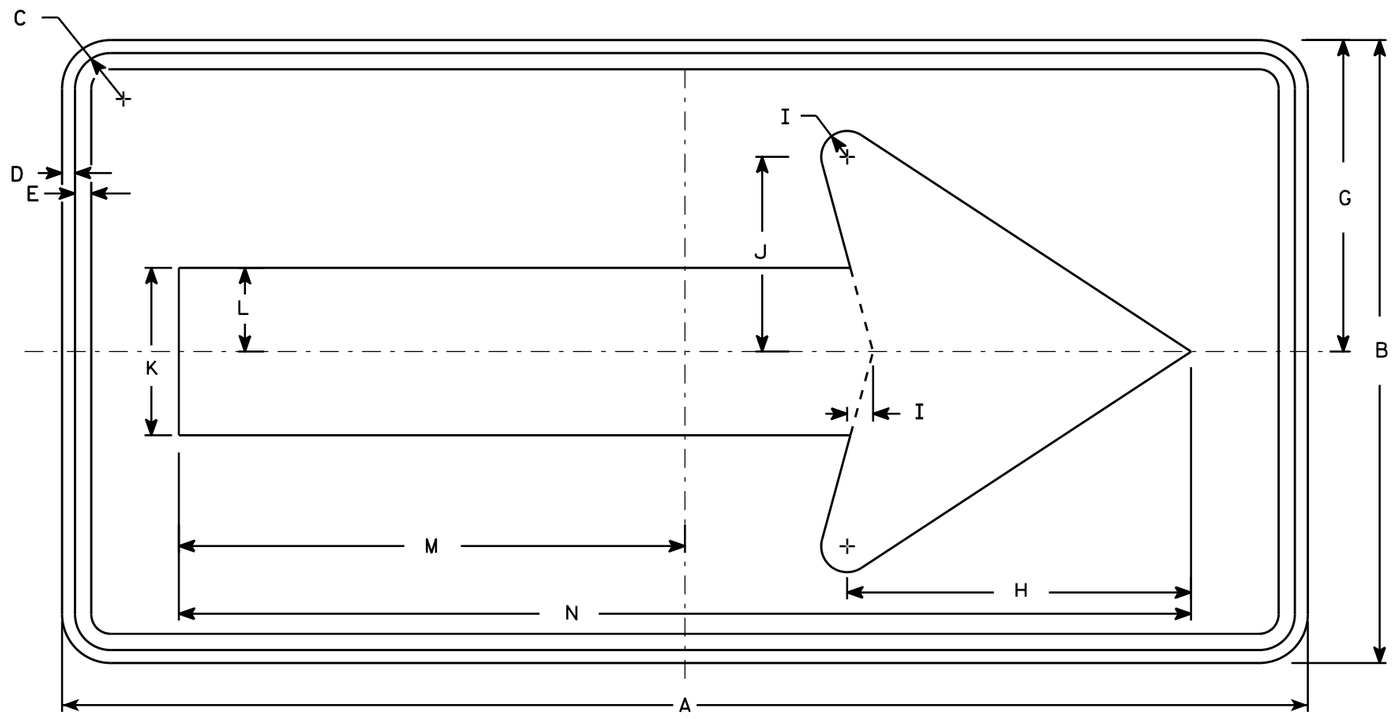
STANDARD SIGN
W54-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W54-56.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 402	E



W01-6

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
W01-6

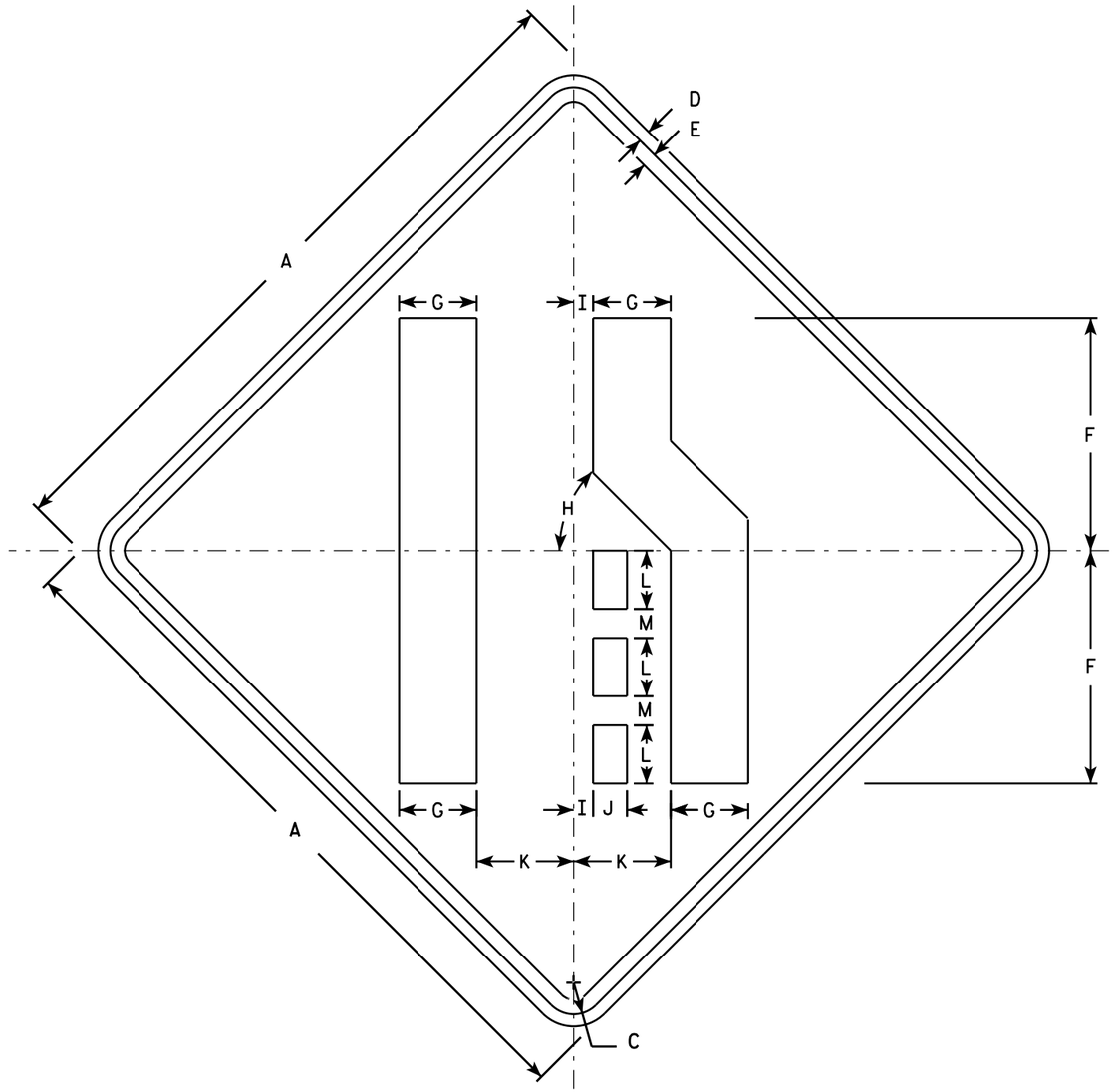
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W04-2R

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.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 404 W04-2.1

PROJECT NO:

SHEET NO: E

CTH VV - EASTBOUND

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
272+00	27200.0	0.0	60.7	0.0	0	0	0	0	0
272+50	27250.0	50.0	69.3	2.2	120	2	120	3	118
273+00	27300.0	50.0	91.3	3.2	149	5	269	9	260
273+50	27350.0	50.0	102.4	5.2	179	8	448	19	429
274+00	27400.0	50.0	127.2	12.7	213	17	661	41	620
274+50	27450.0	50.0	152.2	1.7	259	13	920	58	861
275+00	27500.0	50.0	182.1	0.1	310	2	1229	60	1169
275+50	27550.0	50.0	266.9	0.0	416	0	1645	60	1585
276+00	27600.0	50.0	192.4	0.1	425	0	2070	61	2010
276+50	27650.0	50.0	164.0	2.5	330	2	2400	64	2336
277+00	27700.0	50.0	156.2	5.3	296	7	2697	73	2623
277+50	27750.0	50.0	158.0	3.9	291	9	2988	84	2903
278+00	27800.0	50.0	160.9	1.6	295	5	3283	91	3192
278+50	27850.0	50.0	171.9	0.0	308	1	3591	93	3498
279+00	27900.0	50.0	186.4	0.0	332	0	3923	93	3830
279+50	27950.0	50.0	216.6	0.0	373	0	4296	93	4203
280+00	28000.0	50.0	233.6	0.0	417	0	4713	93	4620
280+50	28050.0	50.0	203.0	0.0	404	0	5117	93	5024
281+00	28100.0	50.0	156.6	2.4	333	2	5450	96	5354
281+11.97	28112.0	12.0	122.4	3.1	62	1	5512	97	5414
281+11.98	28112.0	0.0	0.0	0.0	0	0	5512	97	5414
283+13.07	28313.1	201.1	0.0	0.0	0	0	5512	97	5414
283+13.08	28313.1	0.0	98.4	3.6	0	0	5512	97	5414
283+50	28350.0	36.9	81.7	9.0	123	9	5635	108	5526
284+00	28400.0	50.0	75.0	5.3	145	13	5780	126	5654
284+50	28450.0	50.0	105.7	0.7	167	6	5947	133	5814
285+00	28500.0	50.0	130.3	0.0	218	1	6166	134	6032
285+50	28550.0	50.0	123.4	1.2	235	1	6401	135	6266
286+00	28600.0	50.0	124.6	6.9	230	7	6630	145	6485
286+50	28650.0	50.0	131.8	18.1	237	23	6868	175	6693
287+00	28700.0	50.0	143.0	17.4	254	33	7122	218	6905
287+50	28750.0	50.0	159.1	5.8	280	21	7402	245	7156
288+00	28800.0	50.0	170.3	0.6	305	6	7707	253	7454
288+50	28850.0	50.0	170.7	0.3	316	1	8023	254	7768
289+00	28900.0	50.0	148.1	0.8	295	1	8318	256	8062
289+50	28950.0	50.0	146.3	3.2	273	4	8590	260	8330
290+00	29000.0	50.0	153.0	11.2	277	13	8868	278	8590
290+50	29050.0	50.0	185.9	0.4	314	11	9181	292	8890
291+00	29100.0	50.0	172.3	0.2	332	0	9513	292	9221
291+50	29150.0	50.0	133.2	16.2	283	15	9796	312	9484
292+00	29200.0	50.0	144.9	0.4	257	15	10053	332	9722
292+50	29250.0	50.0	150.6	2.1	274	2	10327	335	9992
293+00	29300.0	50.0	157.3	1.7	285	3	10612	339	10273
293+50	29350.0	50.0	117.4	7.3	254	8	10866	350	10516
294+00	29400.0	50.0	137.4	3.2	236	10	11102	363	10740
294+50	29450.0	50.0	145.8	4.1	262	7	11365	371	10993
295+00	29500.0	50.0	185.5	0.0	307	4	11671	376	11295
295+50	29550.0	50.0	178.2	0.0	337	0	12008	376	11632
296+00	29600.0	50.0	176.3	0.0	328	0	12336	376	11960
296+50	29650.0	50.0	271.3	1.0	414	1	12751	377	12373
297+00	29700.0	50.0	254.8	0.0	487	1	13238	379	12859
297+50	29750.0	50.0	136.0	11.7	362	11	13600	393	13207
298+00	29800.0	50.0	120.9	9.3	238	19	13838	418	13420

CTH VV - EASTBOUND

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
298+50	29850.0	50.0	111.1	14.1	215	22	14052	446	13606
299+00	29900.0	50.0	103.5	25.0	199	36	14251	493	13758
299+50	29950.0	50.0	102.7	23.7	191	45	14442	552	13890
300+00	30000.0	50.0	105.0	22.2	192	43	14634	607	14027
300+50	30050.0	50.0	93.3	18.7	184	38	14818	656	14162
301+00	30100.0	50.0	101.6	15.1	180	31	14999	697	14301
301+50	30150.0	50.0	135.0	4.7	219	18	15218	721	14497
302+00	30200.0	50.0	168.0	1.2	280	5	15498	728	14770
302+50	30250.0	50.0	174.5	0.9	317	2	15815	731	15085
303+00	30300.0	50.0	165.3	1.8	315	2	16130	734	15396
303+50	30350.0	50.0	154.6	2.4	296	4	16426	739	15687
304+00	30400.0	50.0	144.2	3.6	277	5	16703	746	15957
304+50	30450.0	50.0	222.3	0.0	339	3	17042	750	16292
305+00	30500.0	50.0	306.9	0.0	490	0	17532	750	16782
305+50	30550.0	50.0	210.6	0.0	479	0	18011	750	17261
306+00	30600.0	50.0	104.3	23.0	292	21	18303	778	17525
306+50	30650.0	50.0	109.6	22.9	198	42	18501	833	17668
307+00	30700.0	50.0	114.0	24.1	207	44	18708	890	17818
307+50	30750.0	50.0	115.9	8.6	213	30	18921	929	17992
308+00	30800.0	50.0	96.7	8.1	197	15	19118	949	18168
308+50	30850.0	50.0	100.8	3.6	183	11	19300	963	18337
309+00	30900.0	50.0	109.3	0.3	195	4	19495	968	18527
309+50	30950.0	50.0	111.4	1.5	204	2	19699	970	18729
310+00	31000.0	50.0	107.5	0.4	203	2	19902	972	18930
310+50	31050.0	50.0	101.0	1.6	193	2	20095	975	19120
311+00	31100.0	50.0	84.2	5.5	171	7	20266	983	19283
311+06.9	31106.9	6.9	84.3	3.5	22	1	20288	985	19303
COLUMN TOTALS					20,288	757			

PROJECT NO: 4986-00-22 | HWY: CTH VV | COUNTY: FOND DU LAC | COMPUTER EARTHWORK DATA | SHEET 405 | E

FILE NAME : 090101_ew.ppt PLOT DATE: 7/29/2016 10:36 AM PLOT BY : gaajs PLOT NAME : PLOT SCALE : 1:1

CTH VV - WESTBOUND

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
272+00	27200.0	0.0	62.5	0.0	0	0	0	0	0
272+50	27250.0	50.0	75.8	0.0	128	0	128	0	128
273+00	27300.0	50.0	94.1	0.0	157	0	285	0	285
273+50	27350.0	50.0	100.7	0.0	180	0	466	0	466
274+00	27400.0	50.0	98.3	4.0	184	4	650	5	645
274+50	27450.0	50.0	100.1	48.7	184	49	834	68	765
275+00	27500.0	50.0	101.3	90.2	186	129	1020	236	785
275+50	27550.0	50.0	102.2	83.6	188	161	1208	445	764
276+00	27600.0	50.0	112.1	83.1	198	154	1407	645	762
276+50	27650.0	50.0	125.6	81.9	220	153	1627	844	783
277+00	27700.0	50.0	117.5	44.1	225	117	1852	996	856
277+50	27750.0	50.0	165.1	0.0	262	41	2114	1049	1065
278+00	27800.0	50.0	146.1	38.7	288	36	2402	1095	1306
278+50	27850.0	50.0	142.6	67.3	267	98	2669	1223	1446
279+00	27900.0	50.0	143.4	30.8	265	91	2934	1341	1593
279+50	27950.0	50.0	161.5	9.0	282	37	3216	1389	1827
280+00	28000.0	50.0	169.9	1.7	307	10	3523	1402	2121
280+50	28050.0	50.0	163.9	0.8	309	2	3832	1405	2427
281+00	28100.0	50.0	133.9	8.2	276	8	4108	1416	2692
281+23.8	28123.8	23.8	165.4	19.8	132	12	4240	1432	2808
281+34.45	28134.4	10.6	94.1	28.6	51	10	4291	1444	2847
281+34.46	28134.5	0.0	0.0	0.0	0	0	4291	1444	2847
283+14.92	28314.9	180.5	0.0	0.0	0	0	4291	1444	2847
283+14.93	28306.3	0.0	107.7	27.1	0	0	4291	1444	2847
283+19.74	28311.1	4.8	130.8	26.1	21	5	4312	1450	2862
283+50	28341.3	30.3	125.2	36.1	143	35	4456	1496	2960
284+00	28391.3	50.0	160.9	23.1	265	55	4721	1567	3154
284+50	28441.3	50.0	165.2	9.5	302	30	5023	1606	3417
285+00	28491.3	50.0	148.1	0.0	290	9	5313	1617	3695
285+50	28541.3	50.0	123.3	6.9	251	6	5564	1626	3938
286+00	28591.3	50.0	110.4	3.2	216	9	5780	1638	4142
286+50	28641.3	50.0	125.4	2.9	218	6	5999	1645	4353
287+00	28691.3	50.0	124.5	5.7	231	8	6230	1656	4574
287+50	28741.3	50.0	140.6	0.7	245	6	6475	1663	4812
288+00	28791.3	50.0	163.6	0.0	282	1	6757	1664	5093
288+50	28841.3	50.0	153.7	2.3	294	2	7051	1667	5384
289+00	28891.3	50.0	134.4	7.9	267	9	7318	1679	5639
289+50	28941.3	50.0	125.1	5.1	240	12	7558	1695	5863
290+00	28991.3	50.0	119.8	13.0	227	17	7785	1717	6068
290+50	29041.3	50.0	127.4	20.9	229	31	8014	1757	6256
291+00	29091.3	50.0	119.4	26.6	228	44	8242	1815	6427
291+50	29141.3	50.0	110.0	32.8	212	55	8454	1886	6568
292+00	29192.8	51.5	108.3	29.0	208	59	8662	1963	6700
292+50	29242.8	50.0	101.3	42.8	194	66	8856	2049	6807
293+00	29292.8	50.0	101.4	40.0	188	77	9044	2149	6895
293+50	29342.8	50.0	102.7	39.2	189	73	9233	2244	6989
294+00	29392.8	50.0	96.8	36.9	185	71	9418	2336	7082
294+50	29442.8	50.0	114.9	22.9	196	55	9614	2408	7206
295+00	29492.8	50.0	120.4	25.7	218	45	9831	2466	7365
295+50	29542.8	50.0	112.3	28.3	215	50	10047	2531	7515
296+00	29592.8	50.0	111.9	31.0	208	55	10254	2603	7652
296+50	29642.8	50.0	115.5	14.1	210	42	10465	2657	7808
297+00	29692.8	50.0	113.8	12.5	212	25	10677	2689	7988

CTH VV - WESTBOUND

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
297+50	29742.8	50.0	108.9	10.6	206	21	10883	2717	8167
298+00	29792.8	50.0	106.8	8.3	200	18	11083	2740	8344
298+50	29842.8	50.0	108.6	9.2	199	16	11282	2761	8522
299+00	29892.8	50.0	106.5	33.7	199	40	11482	2812	8669
299+50	29942.8	50.0	92.0	38.2	184	67	11665	2899	8767
300+00	29992.8	50.0	83.0	40.2	162	73	11827	2993	8834
300+50	30042.8	50.0	77.4	38.1	149	72	11976	3087	8889
301+00	30092.8	50.0	80.6	35.3	146	68	12122	3176	8946
301+50	30142.8	50.0	92.0	29.4	160	60	12282	3254	9028
302+00	30192.8	50.0	120.9	22.5	197	48	12479	3316	9163
302+50	30242.8	50.0	125.2	18.8	228	38	12707	3366	9341
303+00	30292.8	50.0	122.5	18.3	229	34	12936	3410	9526
303+50	30342.8	50.0	119.6	11.7	224	28	13160	3447	9714
304+00	30392.8	50.0	145.5	0.1	245	11	13406	3461	9945
304+50	30442.8	50.0	249.7	0.0	366	0	13772	3461	10311
305+00	30492.8	50.0	210.2	4.4	426	4	14198	3466	10731
305+50	30542.8	50.0	122.6	7.9	308	11	14506	3481	11025
306+00	30592.8	50.0	113.1	12.8	218	19	14724	3506	11218
306+50	30642.8	50.0	104.8	22.3	202	32	14926	3548	11378
307+00	30692.8	50.0	100.7	31.7	190	50	15116	3613	11503
307+50	30742.8	50.0	84.0	37.5	171	64	15287	3697	11590
308+00	30792.8	50.0	71.3	49.6	144	81	15431	3802	11629
308+50	30842.8	50.0	60.1	49.6	122	92	15553	3921	11632
309+00	30892.8	50.0	73.9	56.0	124	98	15677	4048	11629
309+50	30942.8	50.0	92.8	51.4	154	99	15831	4177	11654
310+00	30992.8	50.0	128.5	6.2	205	53	16036	4246	11789
310+50	31042.8	50.0	89.1	72.3	201	73	16237	4341	11897
311+00	31092.8	50.0	79.9	59.4	157	122	16394	4499	11895
311+50	31142.8	50.0	0.9	22.0	75	75	16469	4597	11872
312+00	31192.8	50.0	3.3	0.7	4	21	16472	4624	11848
312+50	31242.8	50.0	4.1	0.5	7	1	16479	4626	11853
313+00	31292.8	50.0	2.1	2.1	6	2	16485	4629	11856
313+50	31342.8	50.0	1.3	3.5	3	5	16488	4636	11852
314+00	31392.8	50.0	3.1	1.5	4	5	16492	4642	11850
314+44.69	31437.5	44.7	4.6	0.0	6	1	16498	4643	11855
COLUMN TOTALS					16,498	3,572			

MILITARY ROAD - NORTHBOUND

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
443+00	44300.0	0.0	102.6	38.8	0	0	0	0	0
443+50	44350.0	50.0	110.8	46.8	198	79	198	103	95
444+00	44400.0	50.0	122.3	44.0	216	84	413	212	201
444+50	44450.0	50.0	136.5	47.3	240	85	653	322	331
445+00	44500.0	50.0	149.7	54.5	265	94	918	445	473
445+50	44550.0	50.0	153.4	48.6	281	95	1199	569	630
446+00	44600.0	50.0	175.6	33.3	305	76	1503	667	836
446+50	44650.0	50.0	187.0	19.0	336	48	1839	730	1109
447+00	44700.0	50.0	164.1	5.2	325	22	2164	760	1405
447+17.95	44717.9	17.9	193.9	6.5	119	4	2283	765	1518
447+24.45	44724.5	6.5	108.4	7.3	36	2	2320	767	1553
447+24.46	44724.5	0.0	0.0	0.0	0	0	2320	767	1553
449+12.95	44913.0	188.5	0.0	0.0	0	0	2320	767	1553
449+12.96	44913.0	0.0	99.1	55.5	0	0	2320	767	1553
449+27.93	44927.9	15.0	142.5	19.6	67	21	2387	794	1593
449+50	44950.0	22.1	130.8	2.2	112	9	2498	805	1693
450+00	45000.0	50.0	143.4	0.0	254	2	2752	808	1944
450+50	45050.0	50.0	121.0	2.2	245	2	2997	811	2186
451+00	45100.0	50.0	113.0	35.6	217	35	3214	856	2358
451+50	45150.0	50.0	99.8	24.7	197	56	3411	929	2482
452+00	45200.0	50.0	88.8	14.6	175	36	3585	976	2609
452+50	45250.0	50.0	95.5	0.0	171	14	3756	993	2762
453+00	45300.0	50.0	90.7	0.0	172	0	3928	993	2935
453+50	45350.0	50.0	95.9	0.0	173	0	4101	993	3107
454+00	45400.0	50.0	92.3	0.0	174	0	4275	993	3282
454+50	45450.0	50.0	187.7	0.0	259	0	4534	993	3541
455+00	45500.0	50.0	84.0	0.1	252	0	4786	994	3792
455+50	45550.0	50.0	69.1	0.2	142	0	4928	994	3934
456+00	45600.0	50.0	69.6	0.3	128	0	5056	994	4062
456+50	45650.0	50.0	66.7	0.6	126	1	5182	995	4187
457+00	45700.0	50.0	64.5	0.3	122	1	5304	997	4307
457+50	45750.0	50.0	120.1	3.7	171	4	5475	1001	4473
457+84	45784.0	34.0	0.0	0.0	76	2	5550	1004	4546
COLUMN TOTALS					5,550	773			

MILITARY ROAD - SOUTHBOUND

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
443+00	44300.0	0.0	110.4	0.8	0	0	0	0	0
443+50	44350.0	50.0	98.7	11.9	194	12	194	15	178
444+00	44400.0	50.0	104.0	22.0	188	31	381	56	325
444+50	44450.0	50.0	106.8	25.8	195	44	577	114	463
445+00	44500.0	50.0	99.1	28.8	191	51	767	179	588
445+50	44550.0	50.0	104.8	11.2	189	37	956	228	729
446+00	44600.0	50.0	119.5	5.1	208	15	1164	247	917
446+50	44650.0	50.0	125.0	10.2	226	14	1390	265	1125
447+00	44700.0	50.0	127.0	12.8	233	21	1623	293	1330
447+20.54	44720.5	20.5	152.7	16.7	106	11	1730	308	1422
447+31.20	44731.2	10.7	104.1	16.9	51	7	1780	316	1464
447+31.21	44731.2	0.0	0.0	0.0	0	0	1780	316	1464
449+14.43	44914.4	183.2	0.0	0.0	0	0	1780	316	1464
449+14.44	44915.0	0.0	73.1	35.6	0	0	1780	316	1464
449+20.15	44920.7	5.7	106.4	33.1	19	7	1799	326	1474
449+50	44950.6	29.9	124.6	20.1	128	29	1927	364	1563
450+00	45000.6	50.0	124.2	8.5	230	26	2157	398	1759
450+50	45050.6	50.0	117.2	6.7	223	14	2381	416	1964
451+00	45100.6	50.0	99.9	14.8	201	20	2582	442	2140
451+50	45150.6	50.0	89.6	20.7	175	33	2757	485	2272
452+00	45200.6	50.0	84.6	25.4	161	43	2919	541	2378
452+50	45250.6	50.0	84.7	21.7	157	44	3075	597	2478
453+00	45300.6	50.0	81.7	30.7	154	48	3229	660	2569
453+50	45350.6	50.0	126.5	1.5	193	30	3422	699	2723
454+00	45400.6	50.0	163.0	2.9	268	4	3690	704	2986
454+50	45450.6	50.0	193.6	0.0	330	3	4020	708	3313
455+00	45500.6	50.0	128.8	0.9	299	1	4319	709	3610
455+50	45550.6	50.0	112.1	0.9	223	2	4542	711	3831
456+00	45600.6	50.0	107.0	1.2	203	2	4745	713	4031
456+50	45650.6	50.0	95.7	0.1	188	1	4932	715	4217
457+00	45700.6	50.0	82.3	0.0	165	0	5097	715	4382
COLUMN TOTALS					5,097	550			

SULLIVAN DRIVE

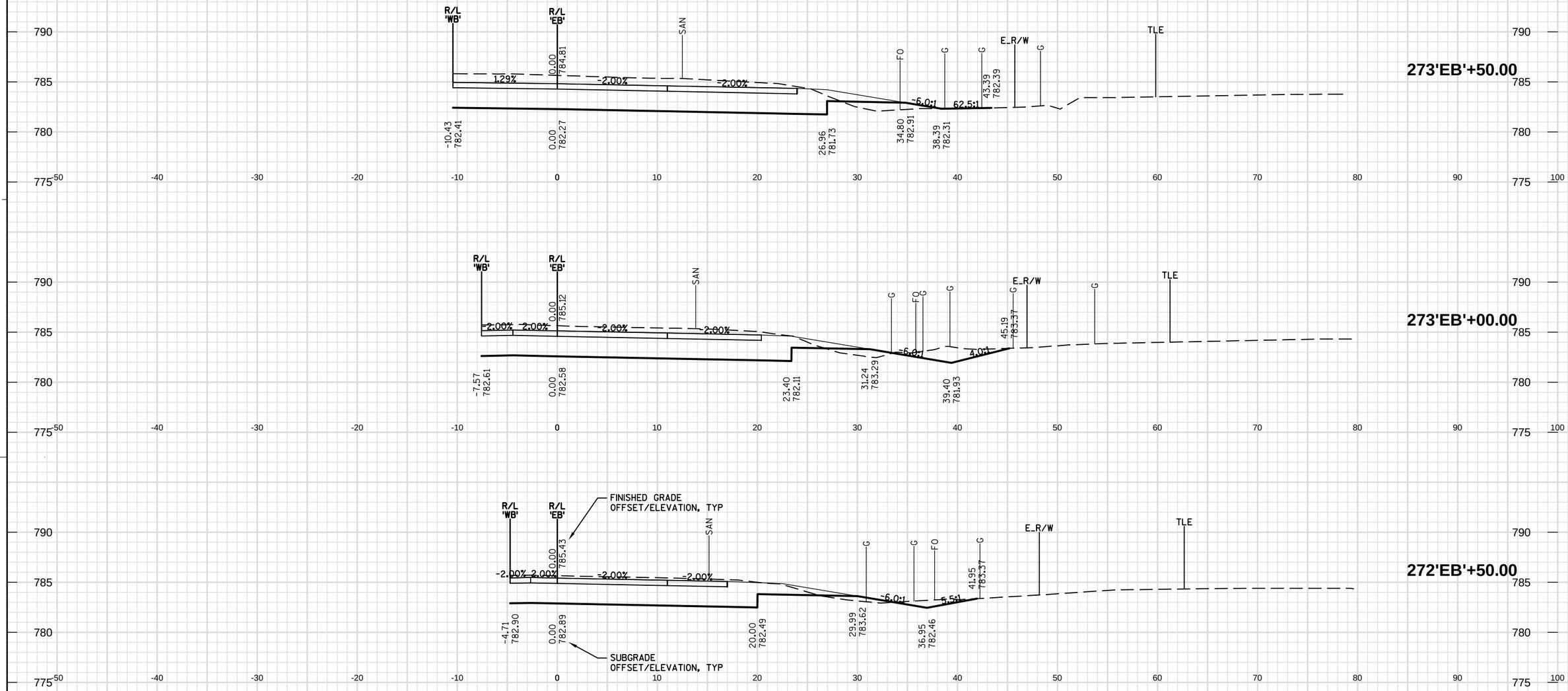
STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	MASS ORDINATE NOTE 8
521+00	52100.0	0.0	114.3	34.0	0	0	0	0	0
521+50	52150.0	50.0	165.6	7.0	259	38	259	49	210
522+00	52200.0	50.0	166.0	6.9	307	13	566	66	500
522+50	52250.0	50.0	166.7	7.5	308	13	874	83	791
523+00	52300.0	50.0	154.4	6.7	297	13	1171	100	1071
523+50	52350.0	50.0	141.0	6.4	274	12	1445	116	1329
524+00	52400.0	50.0	121.0	20.8	243	25	1688	149	1539
524+50	52450.0	50.0	0.0	0.0	112	19	1800	174	1626
COLUMN TOTALS					**1,800**	**134**			

ROUNDABOUT

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT	INCREMENTAL VOL (CY) (UNADJUSTED) FILL	CUMULATIVE VOL (CY) CUT 1.00	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	MASS ORDINATE
10+00	1000.0	0.0	171.9	7.3	0	0	0	0	0
10+25	1025.0	25.0	162.0	1.4	155	4	155	5	149
10+50	1050.0	25.0	185.7	0.8	161	1	316	7	309
10+75	1075.0	25.0	175.5	2.6	167	2	483	9	474
11+00	1100.0	25.0	173.0	3.3	161	3	644	12	632
11+25	1125.0	25.0	175.4	3.1	161	3	805	16	789
11+50	1150.0	25.0	143.9	9.8	148	6	953	24	929
11+75	1175.0	25.0	71.3	15.5	100	12	1053	39	1014
12+00	1200.0	25.0	78.5	13.4	69	13	1122	56	1066
12+25	1225.0	25.0	96.1	7.1	81	10	1203	69	1134
12+50	1250.0	25.0	135.6	3.3	107	5	1310	75	1235
12+75	1275.0	25.0	119.3	3.2	118	3	1428	79	1349
13+00	1300.0	25.0	70.4	10.2	88	6	1516	87	1429
13+25	1325.0	25.0	79.9	11.4	70	10	1586	100	1486
13+50	1350.0	25.0	113.1	6.0	89	8	1675	110	1564
COLUMN TOTALS					**1,675**	**85**			

MERCURY MARINE ENTRANCE

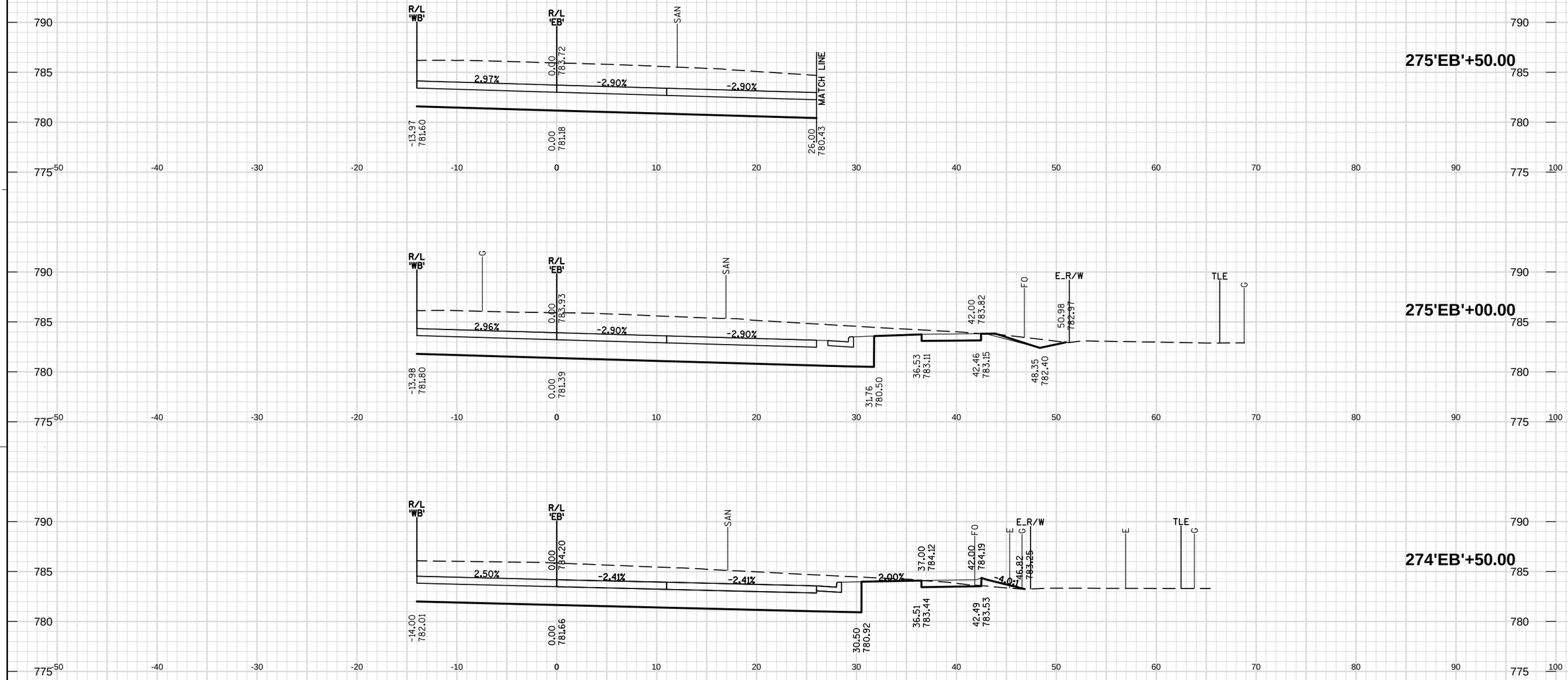
STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT	INCREMENTAL VOL (CY) (UNADJUSTED) FILL	CUMULATIVE VOL (CY) CUT 1.00	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	MASS ORDINATE
08+10	810.0	0.0	88.9	1.5	0	0	0	0	0
08+50	850.0	40.0	109.5	0.5	147	1	147	2	145
09+00	900.0	50.0	163.8	0.4	253	1	400	3	397
9+00.01	900.0	0.0	0.0	0.0	0	0	400	3	397
10+99.99	1100.0	200.0	0.0	0.0	0	0	400	3	397
11+00	1100.0	0.0	100.8	4.8	0	0	400	3	397
11+50	1150.0	50.0	46.6	2.5	137	7	537	12	525
11+78.82	1178.8	28.8	41.7	4.2	47	4	584	16	567
COLUMN TOTALS					**584**	**13**			



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - EB	SHEET: 409 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:10 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : _____ PLOT SCALE : *********

WISDOT/CADDS SHEET 49



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PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - EB	SHEET: 410	E

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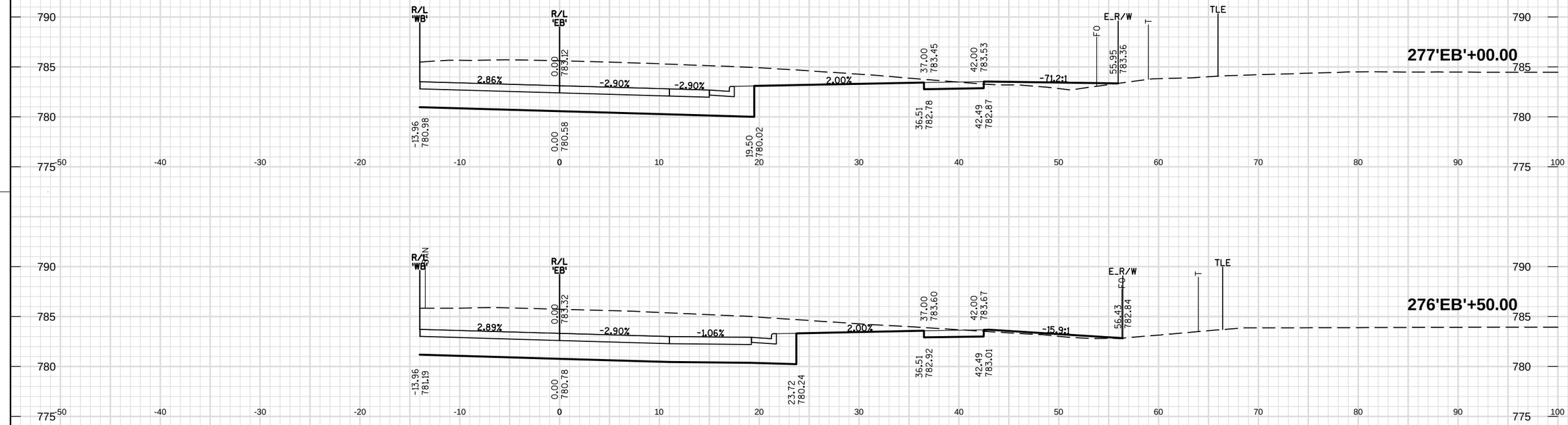

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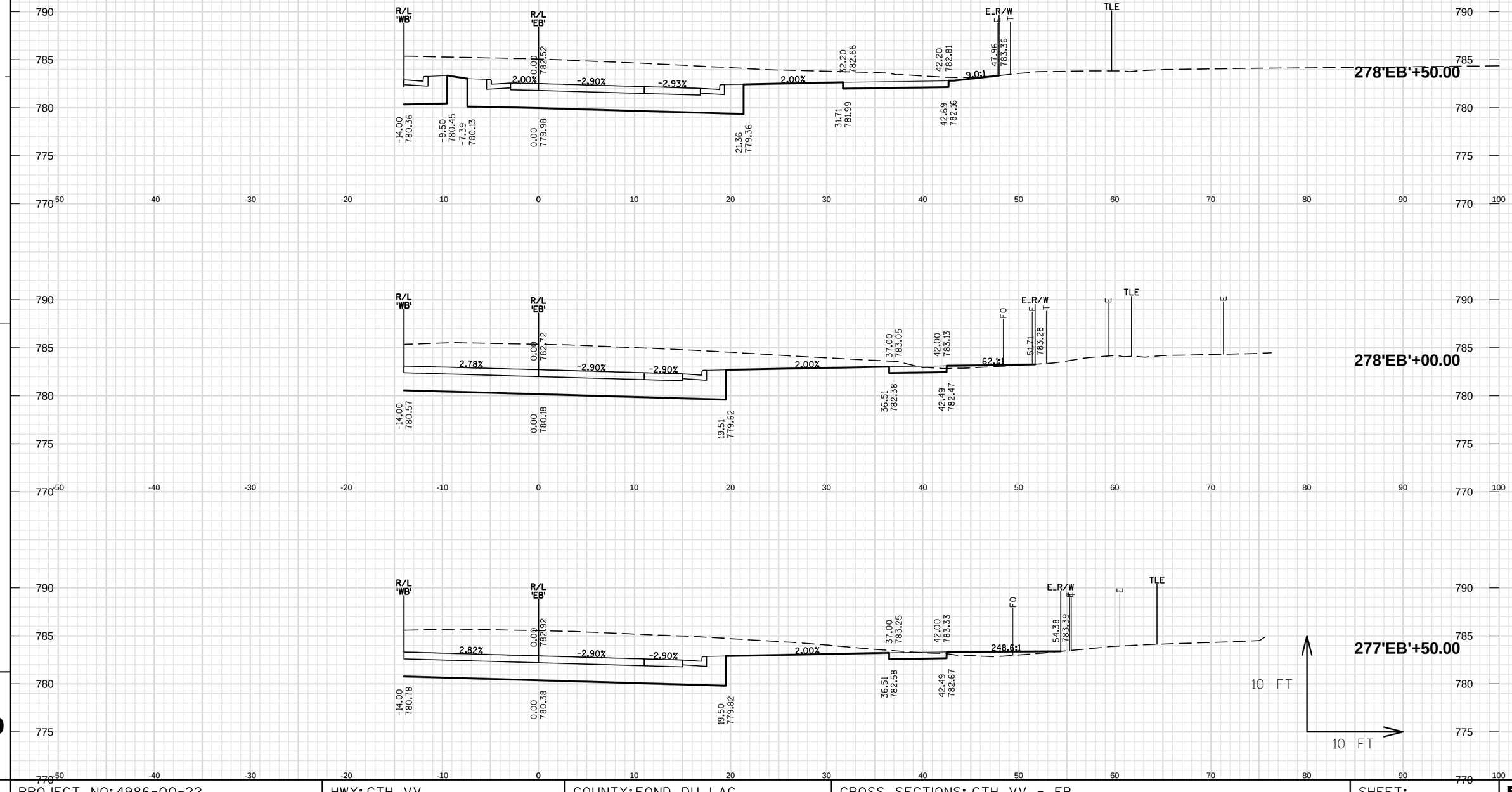

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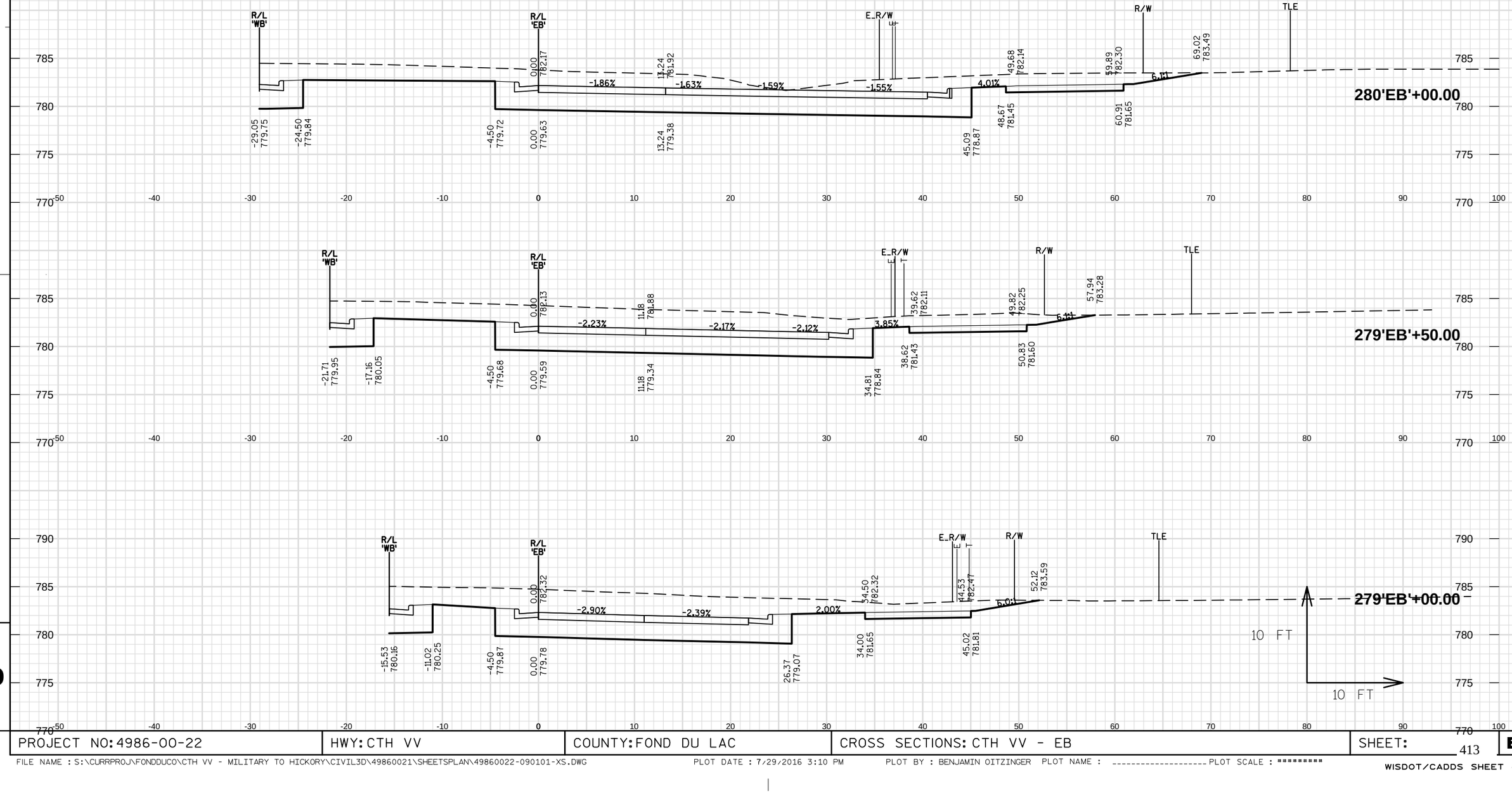

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PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - EB	SHEET: 413	E

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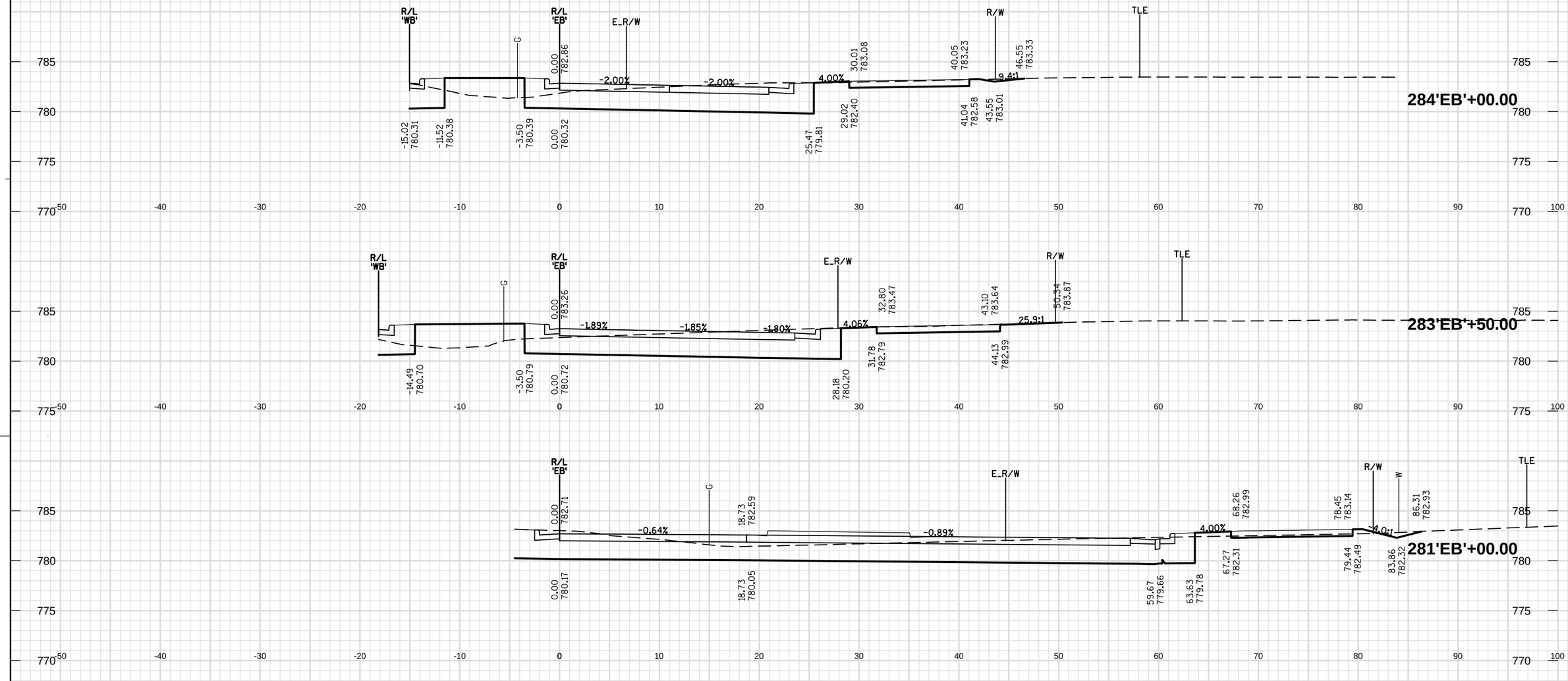

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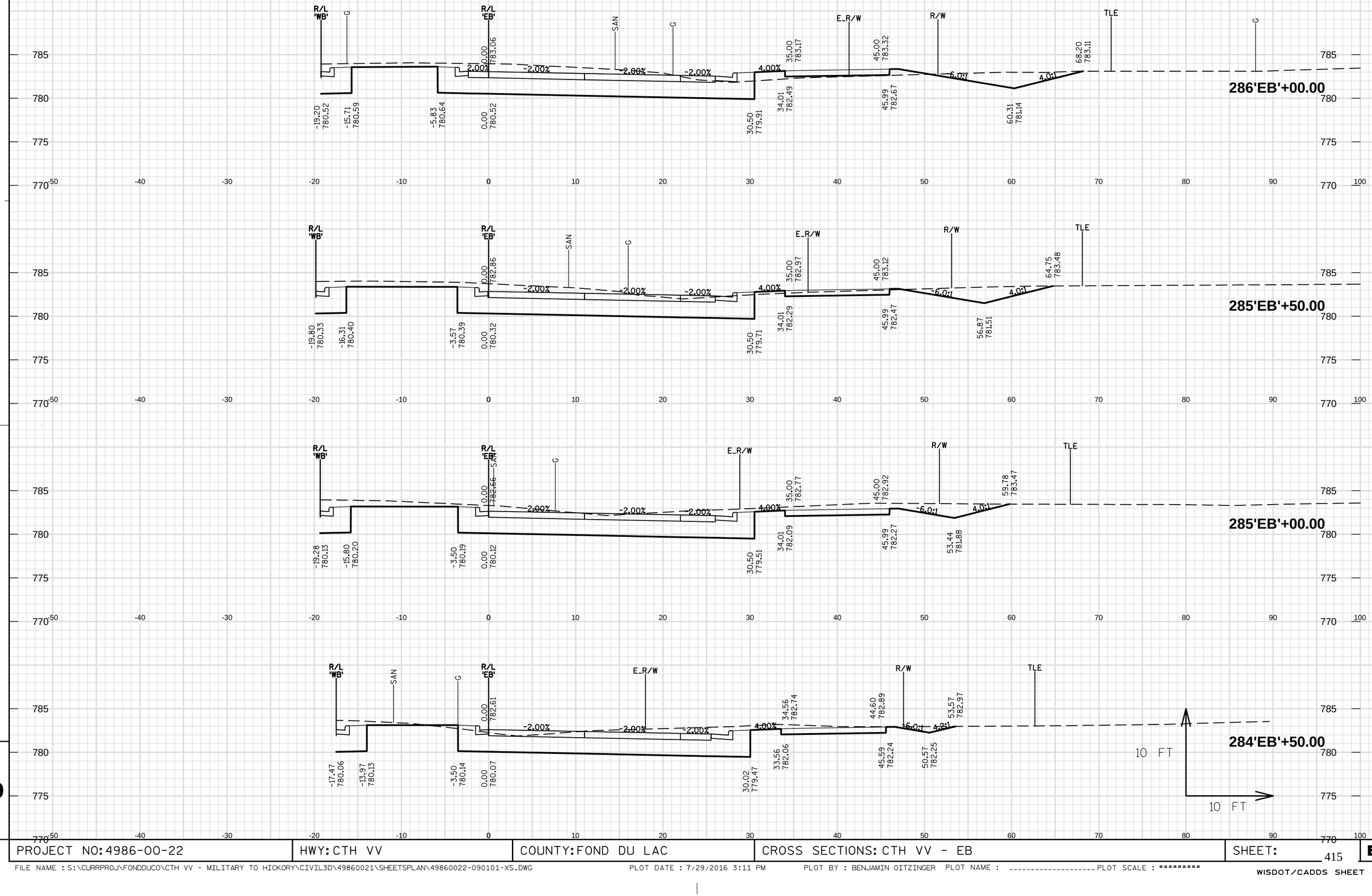

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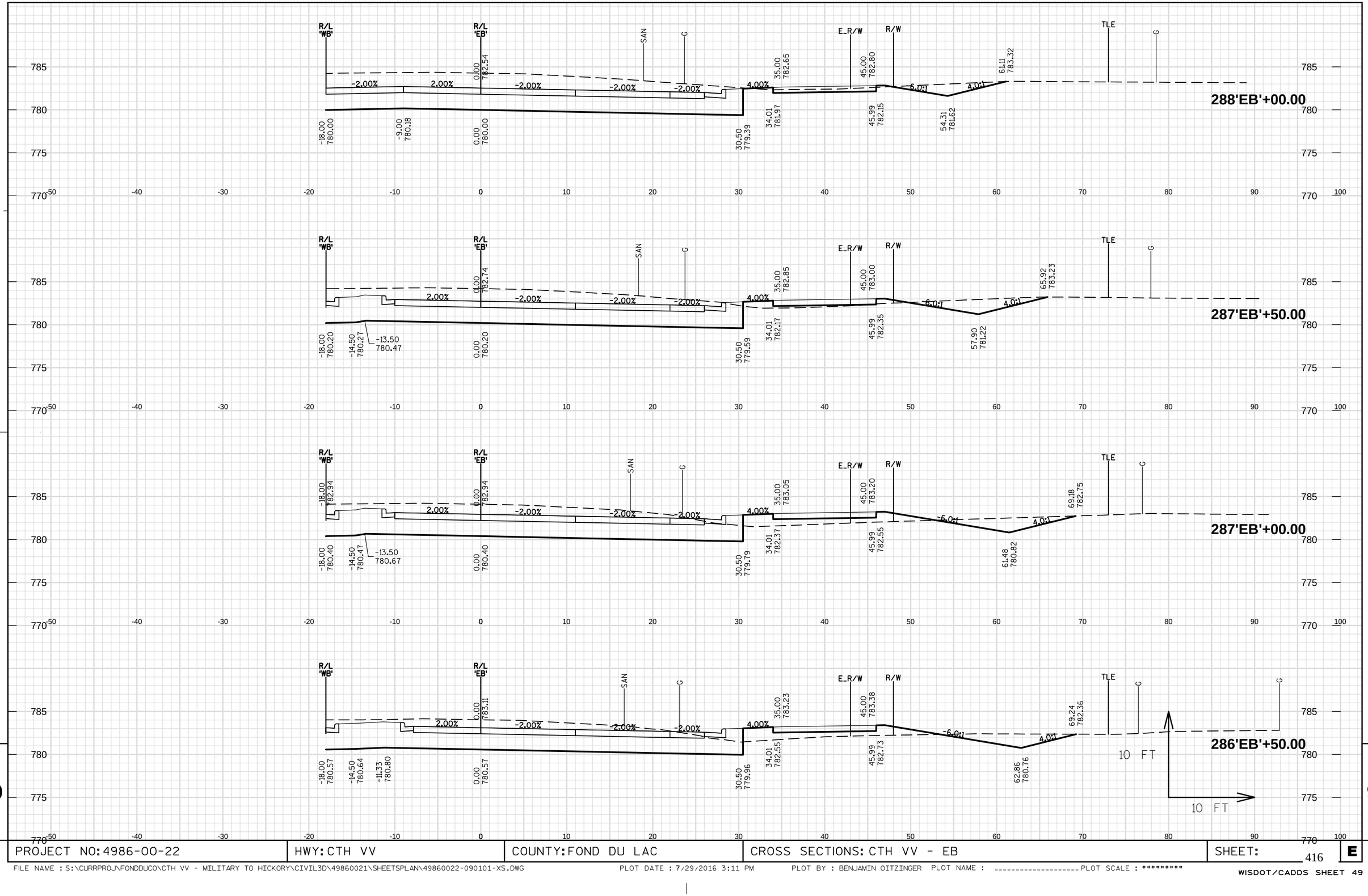

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WISDOT/CADDS SHEET 49

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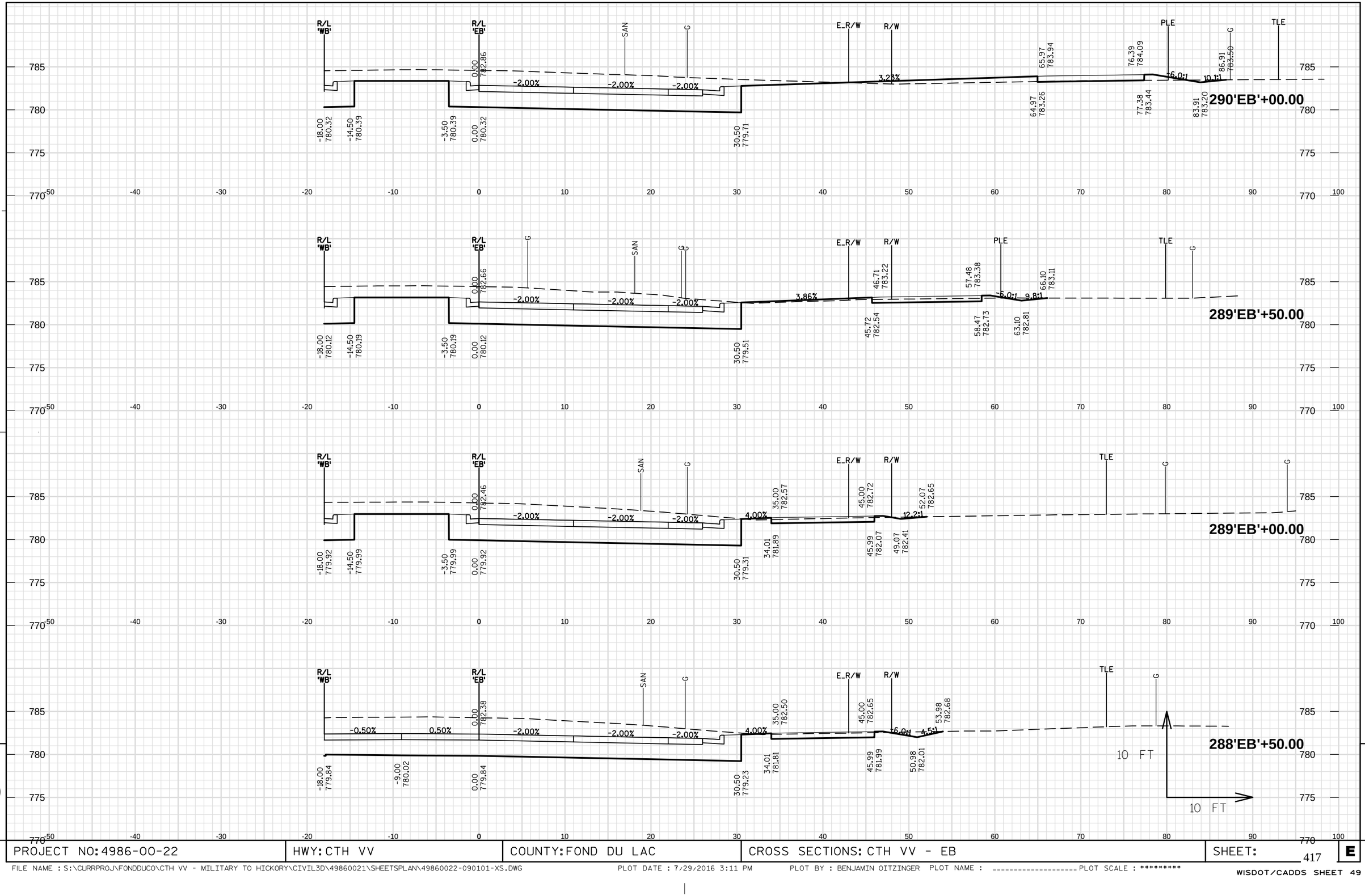

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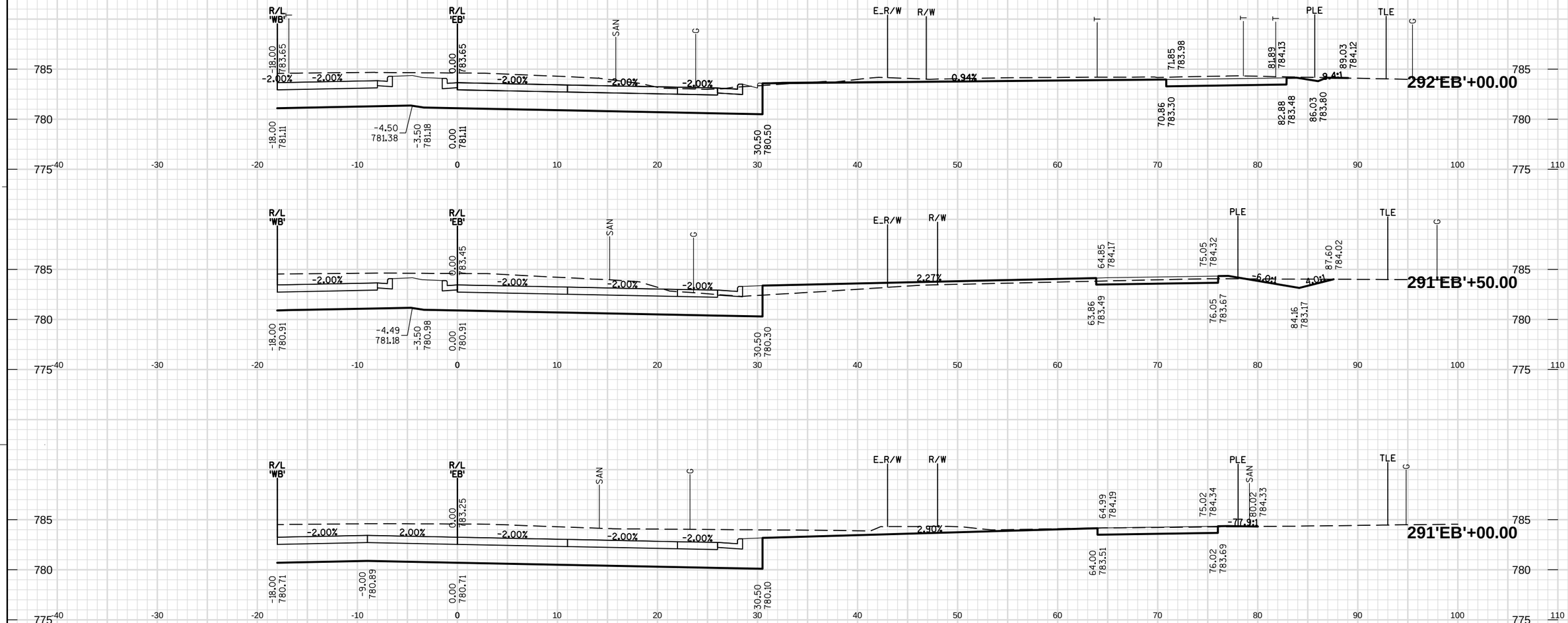

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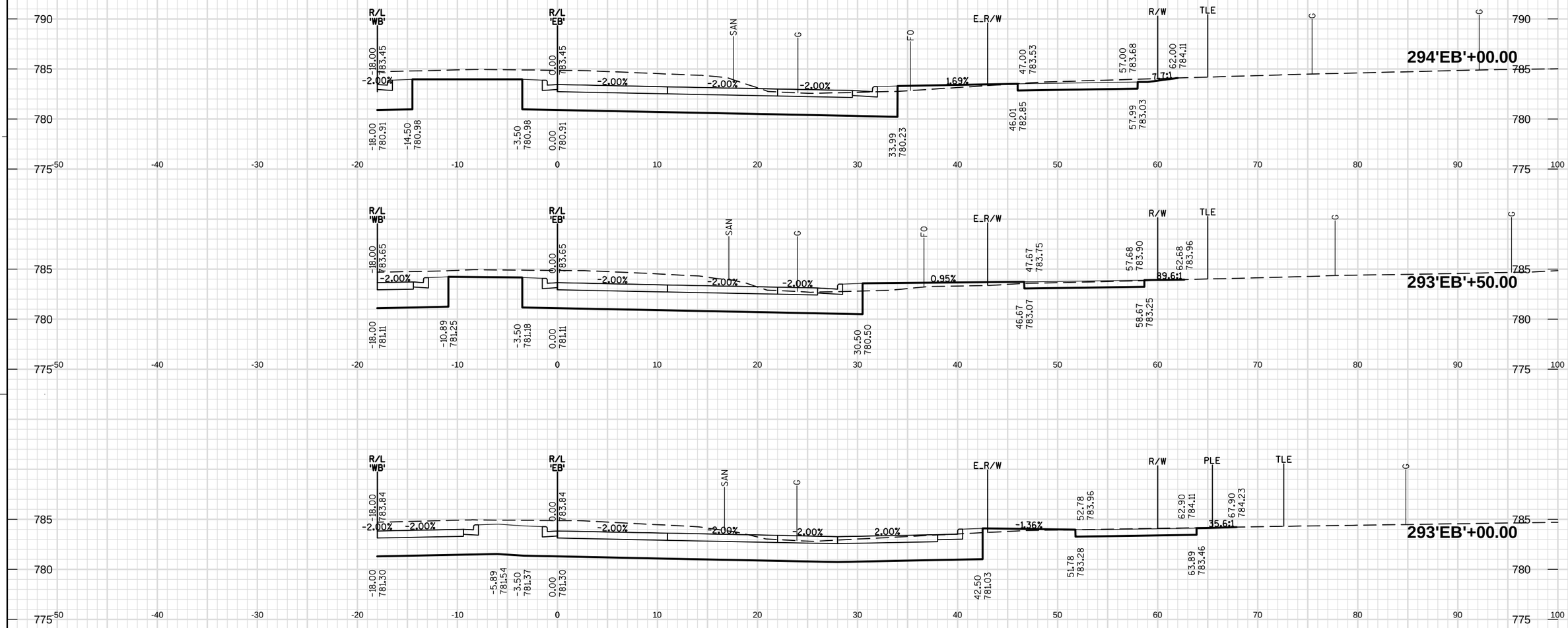

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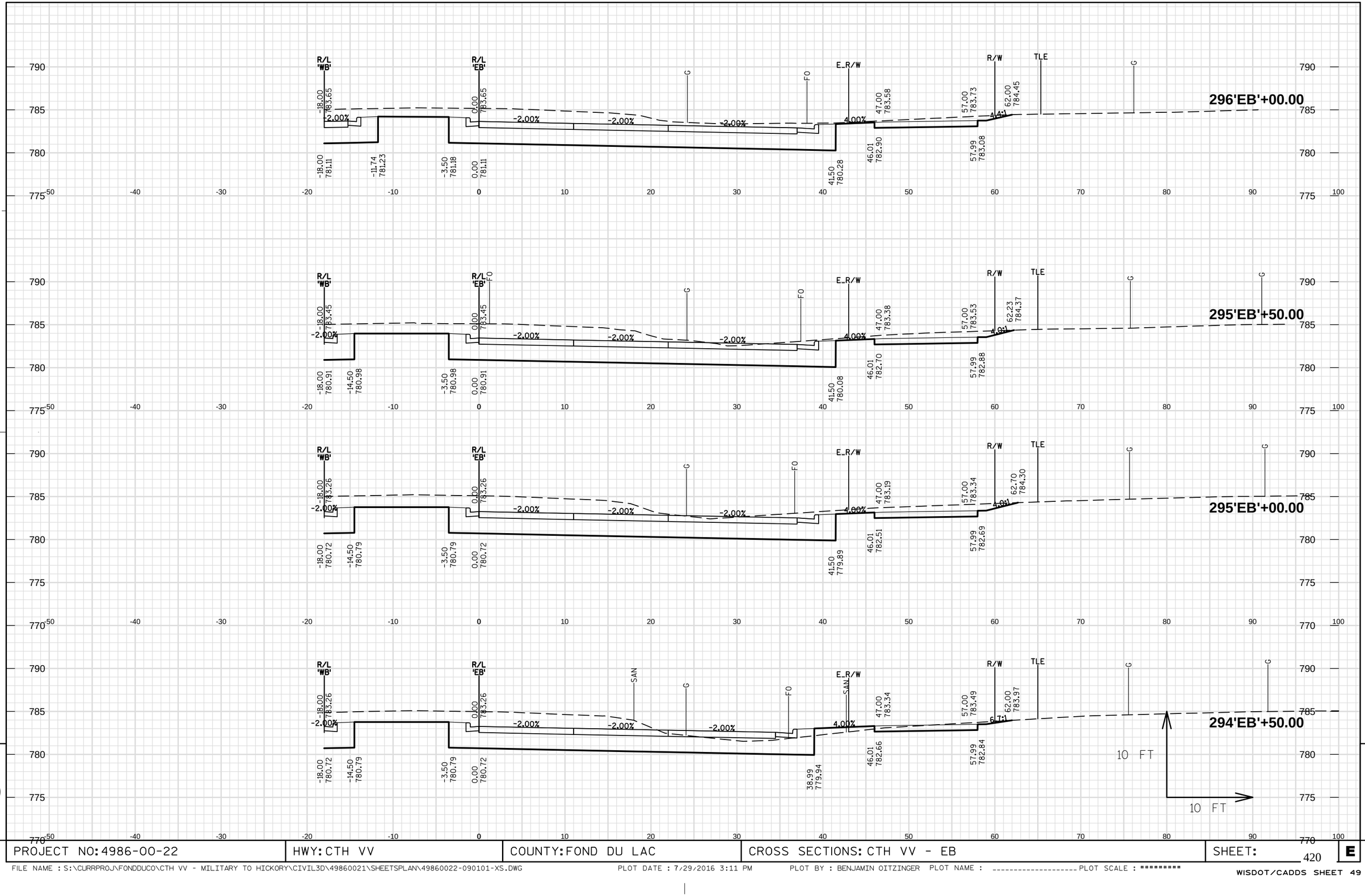

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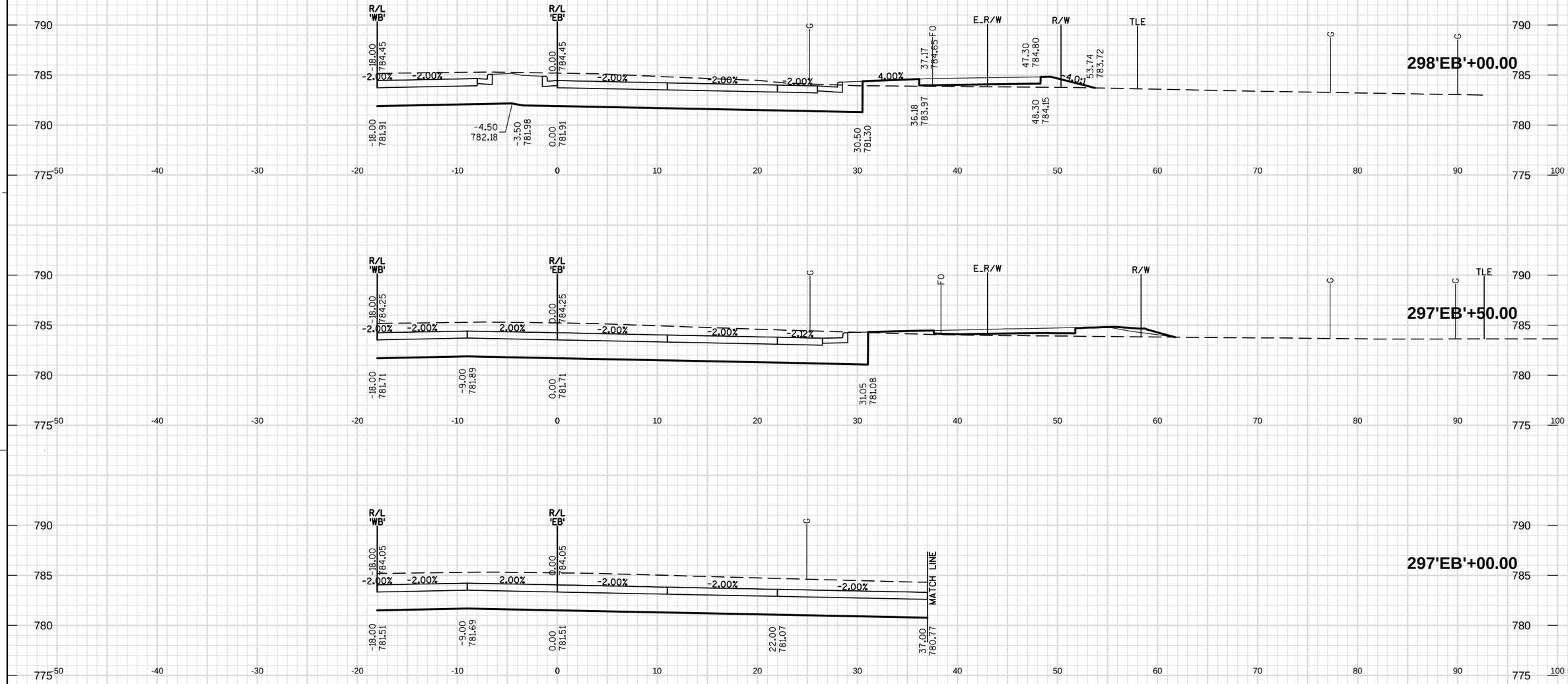

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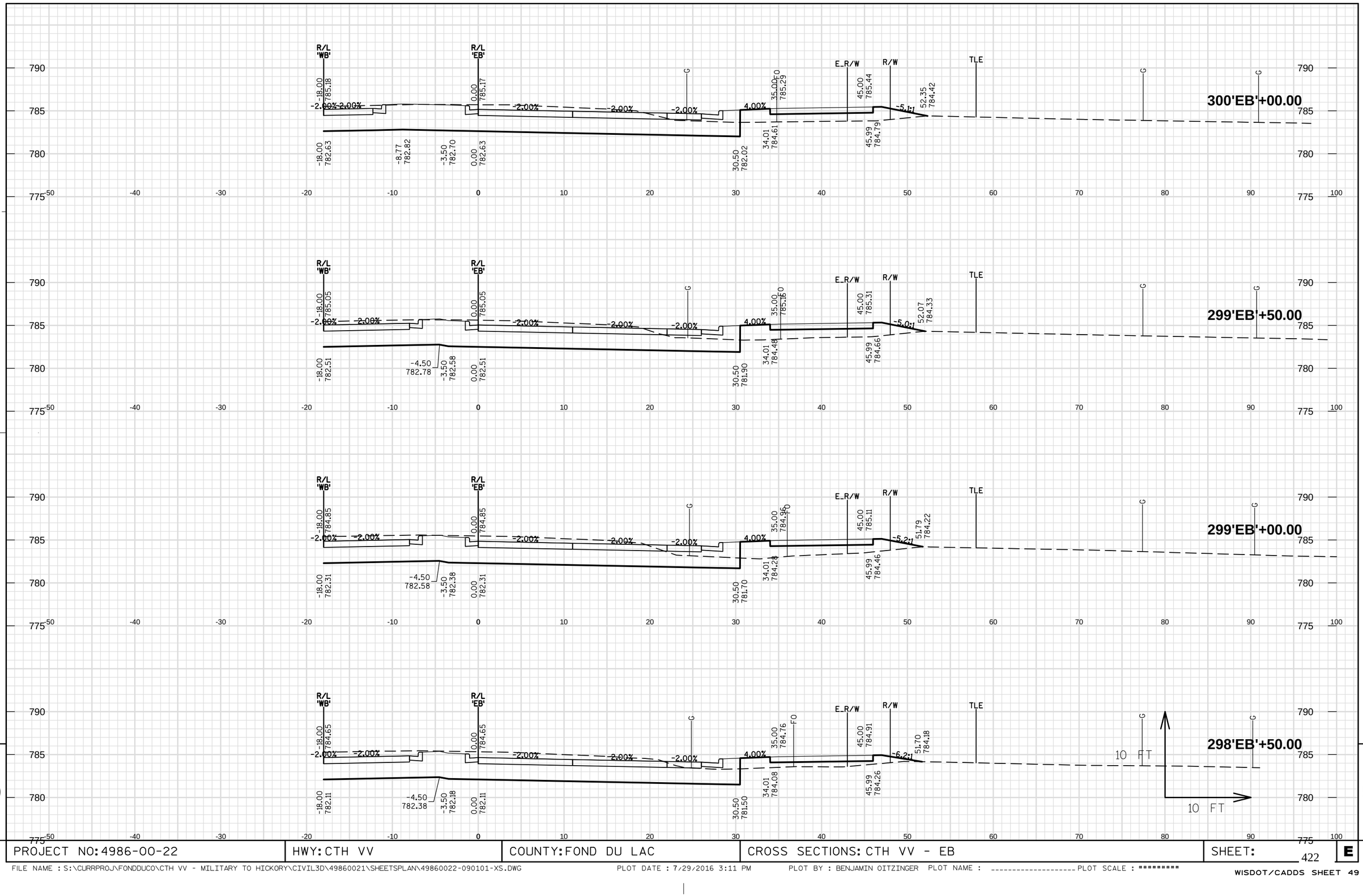
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - EB	SHEET: 421	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:11 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********



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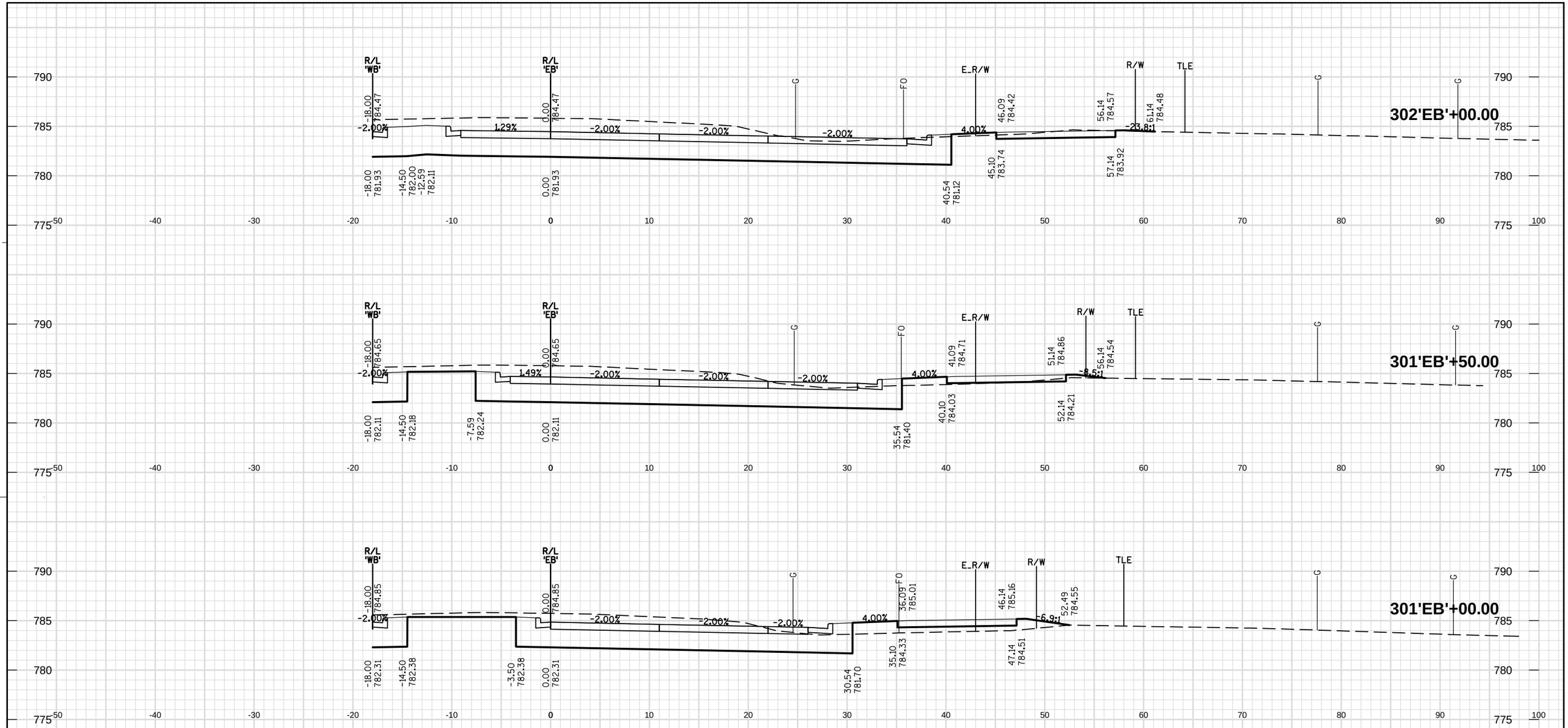
WISDOT/CADDS SHEET 49



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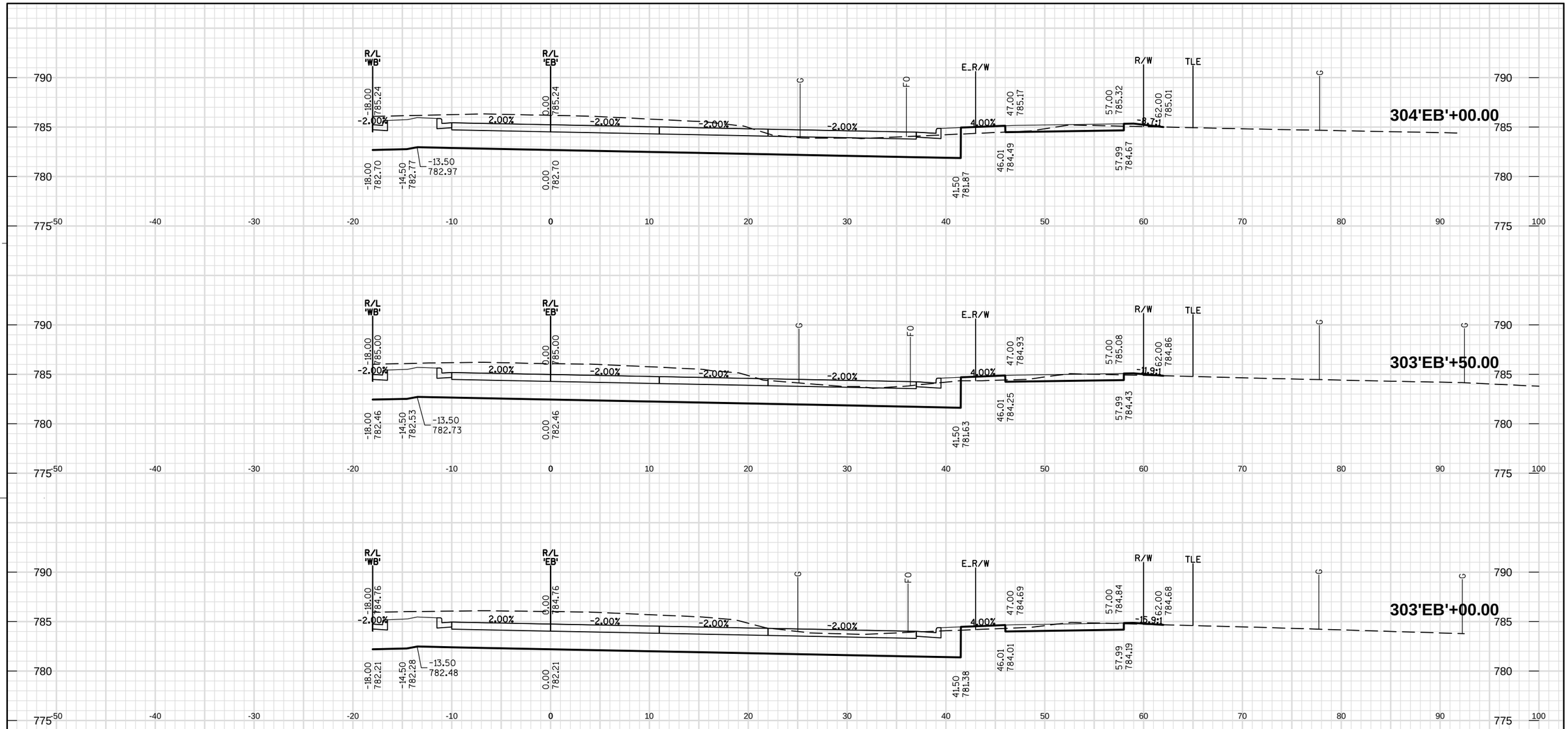
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:11 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : ********

WISDOT/CADDS SHEET 49



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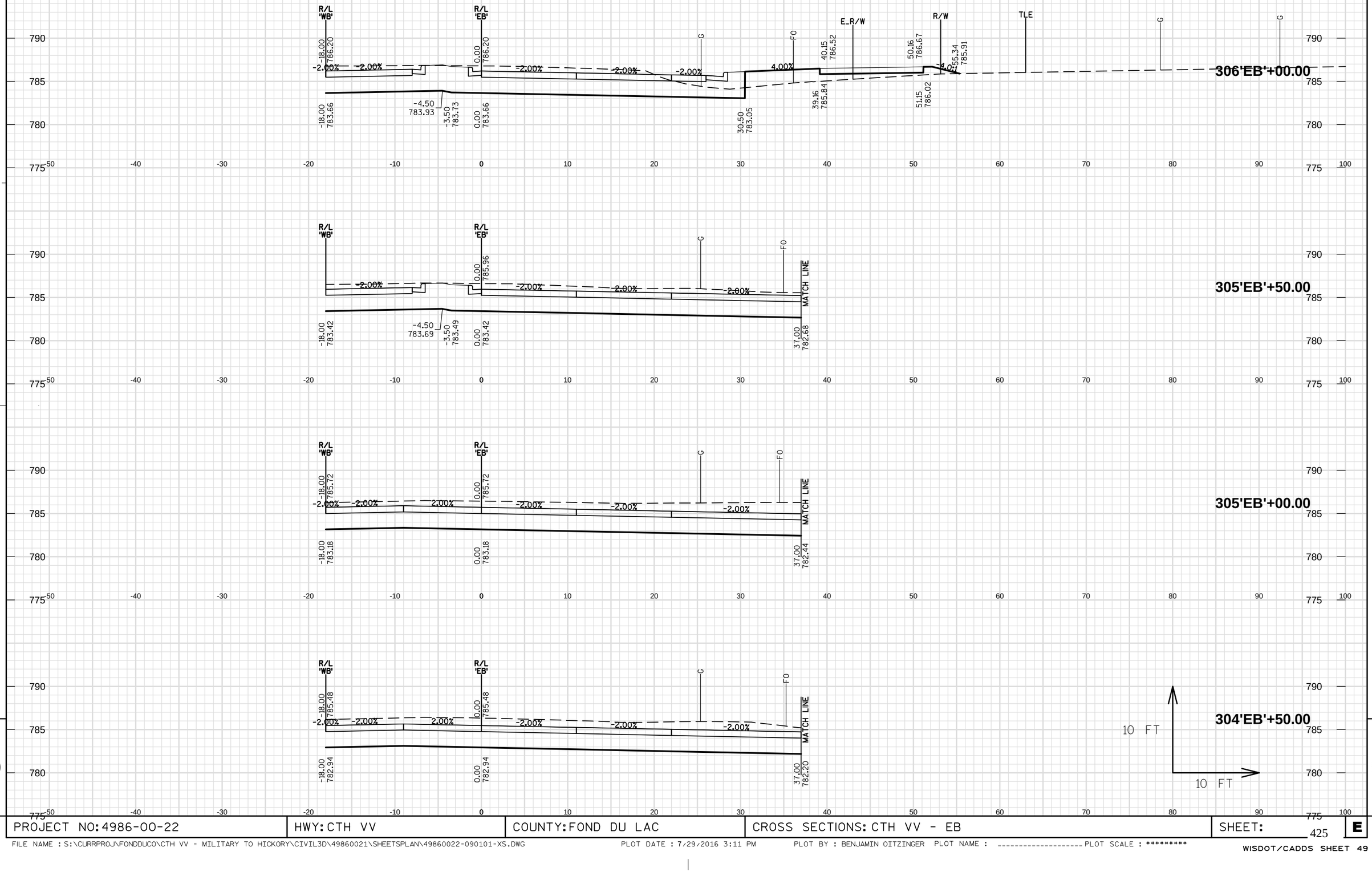
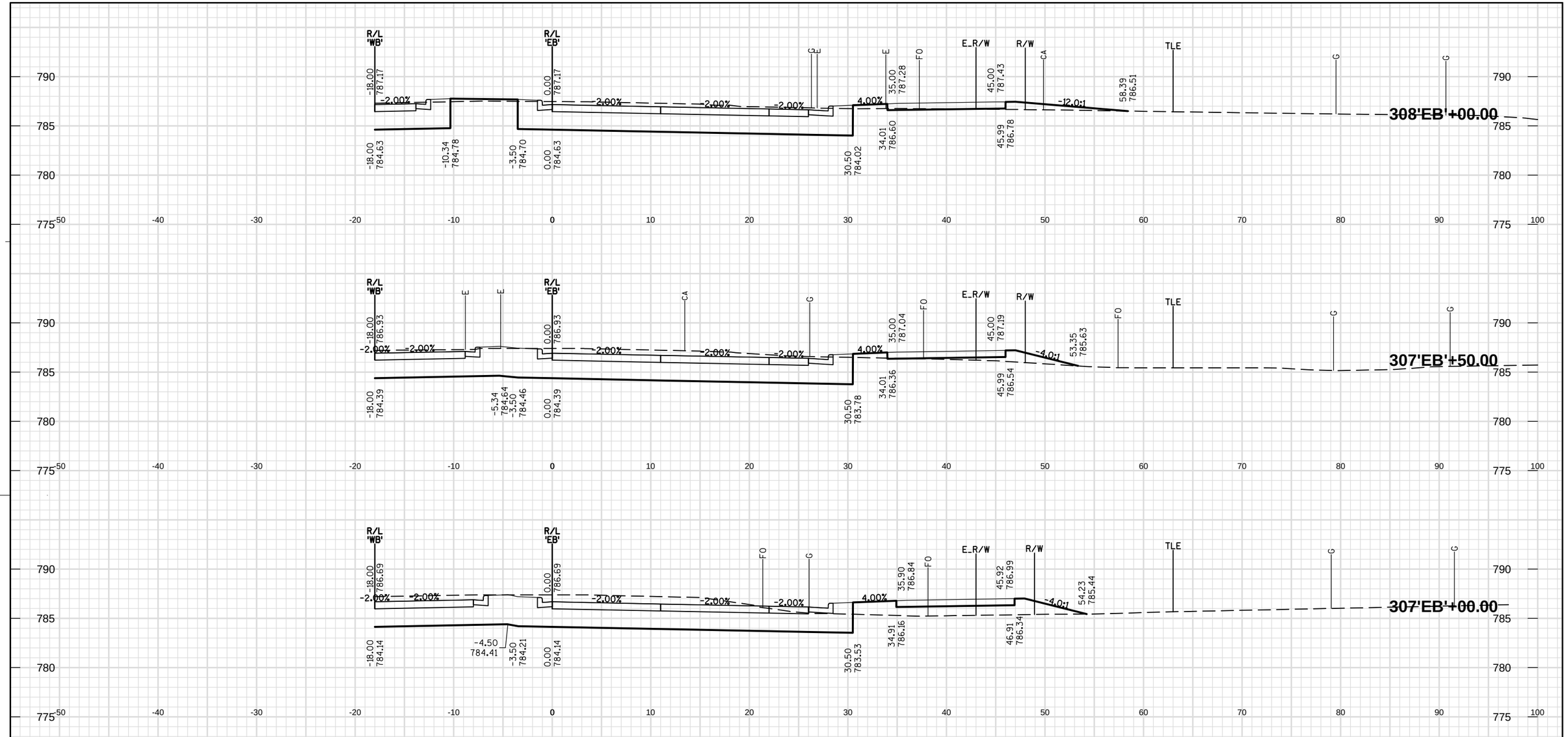
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - EB	SHEET: 424	E

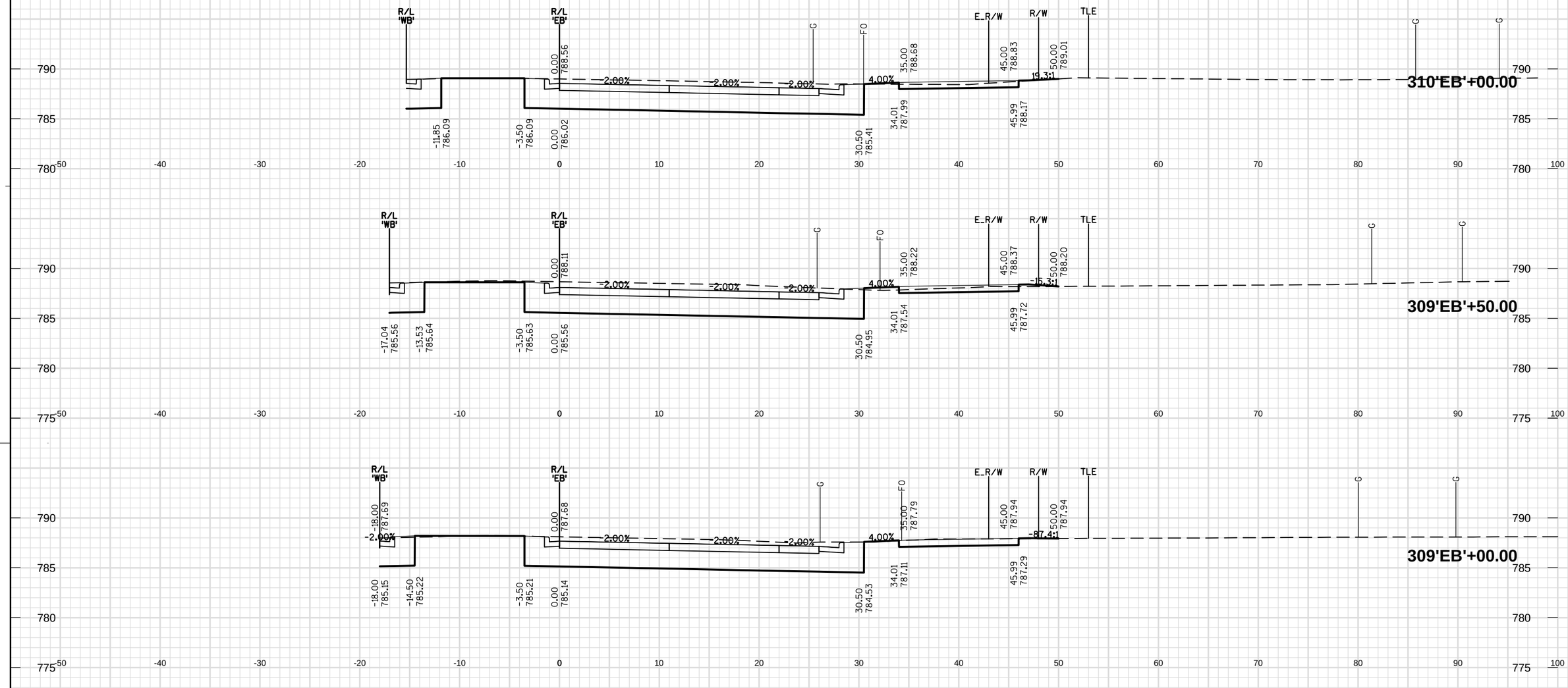


PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - EB	SHEET: 425	E


R/L 'WB'
R/L 'EB'
E_R/W
R/W
TLE
308'EB'+00.00
307'EB'+50.00
307'EB'+00.00
306'EB'+50.00
-2.00%
4.00%
-12.0:1
-4.0:1
10 FT
10 FT

9

9



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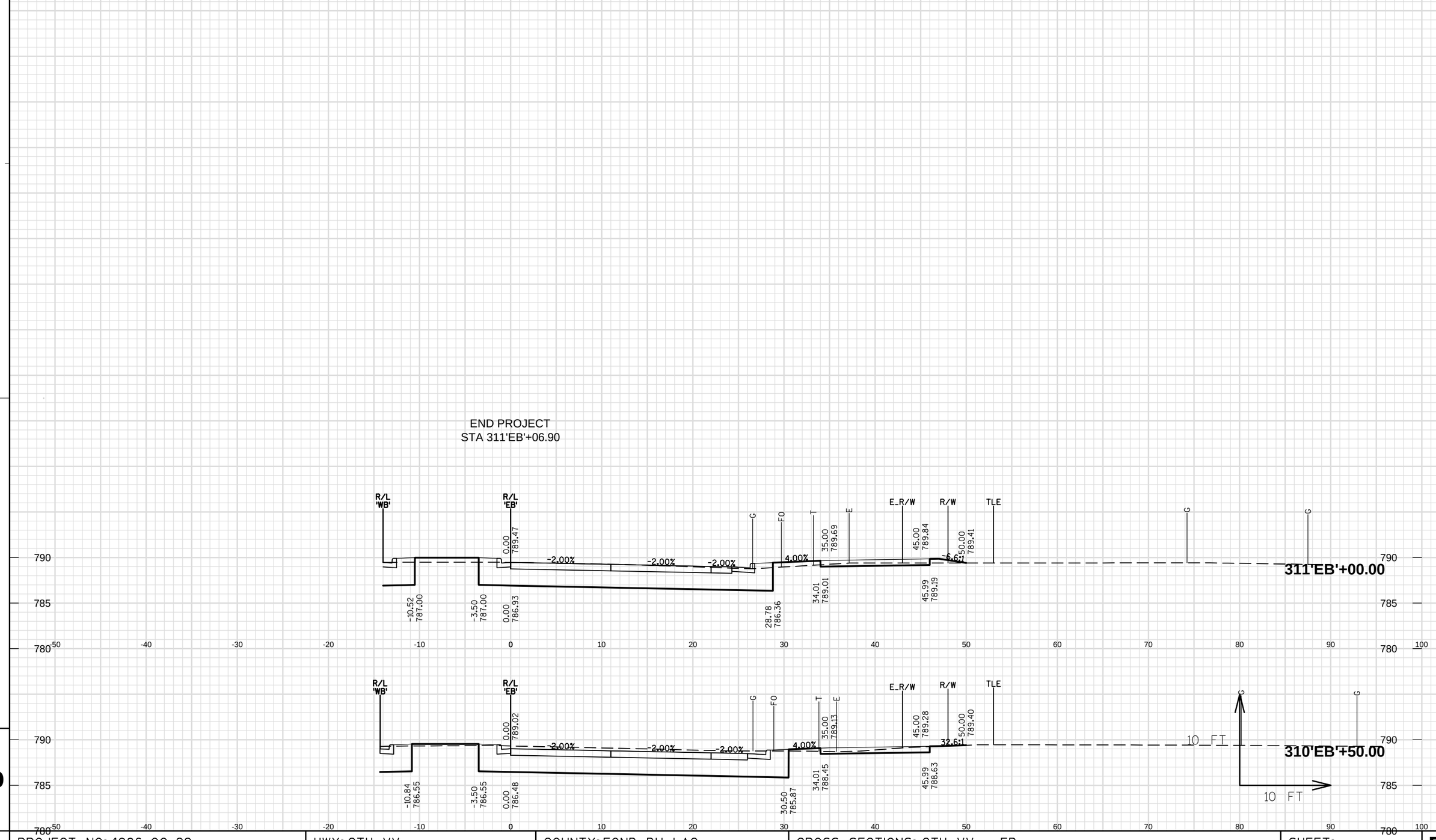
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - EB	SHEET: 427	E

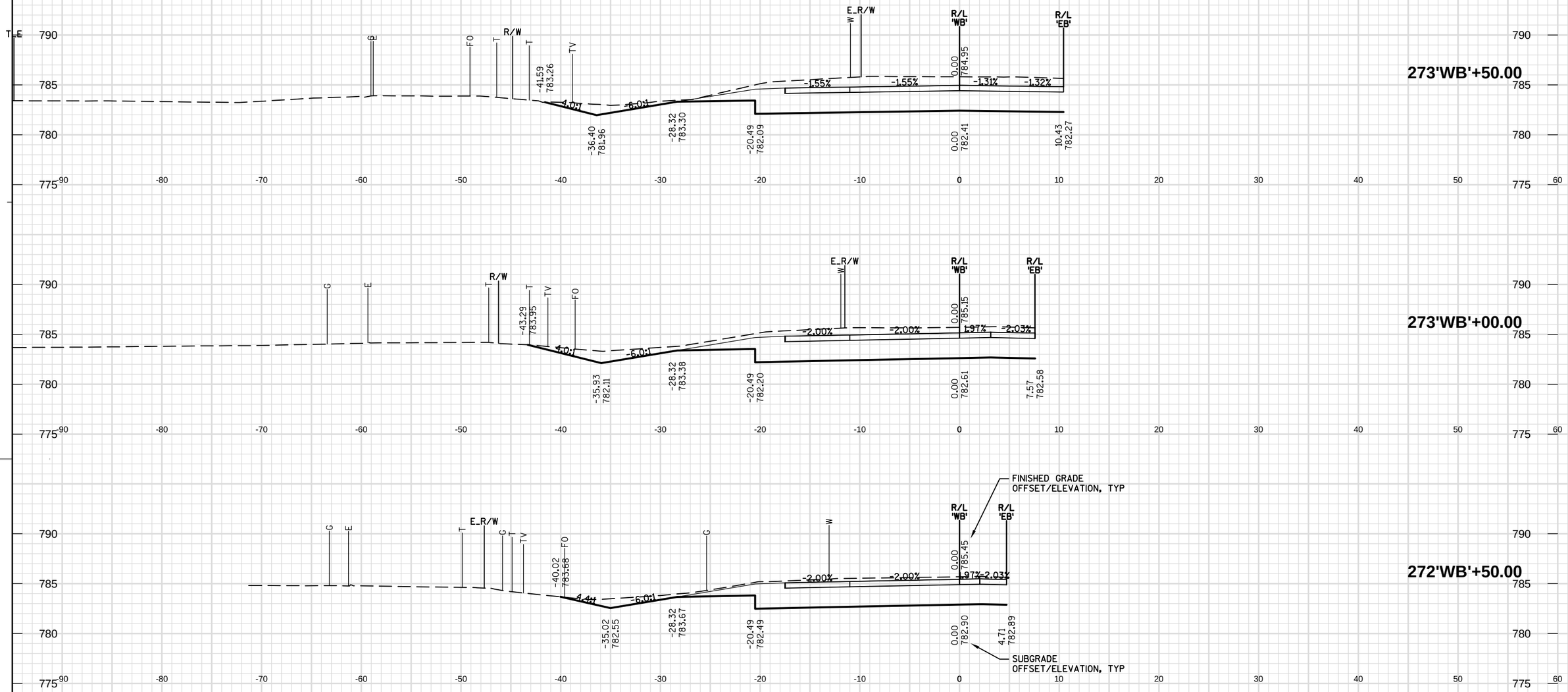
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:11 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49

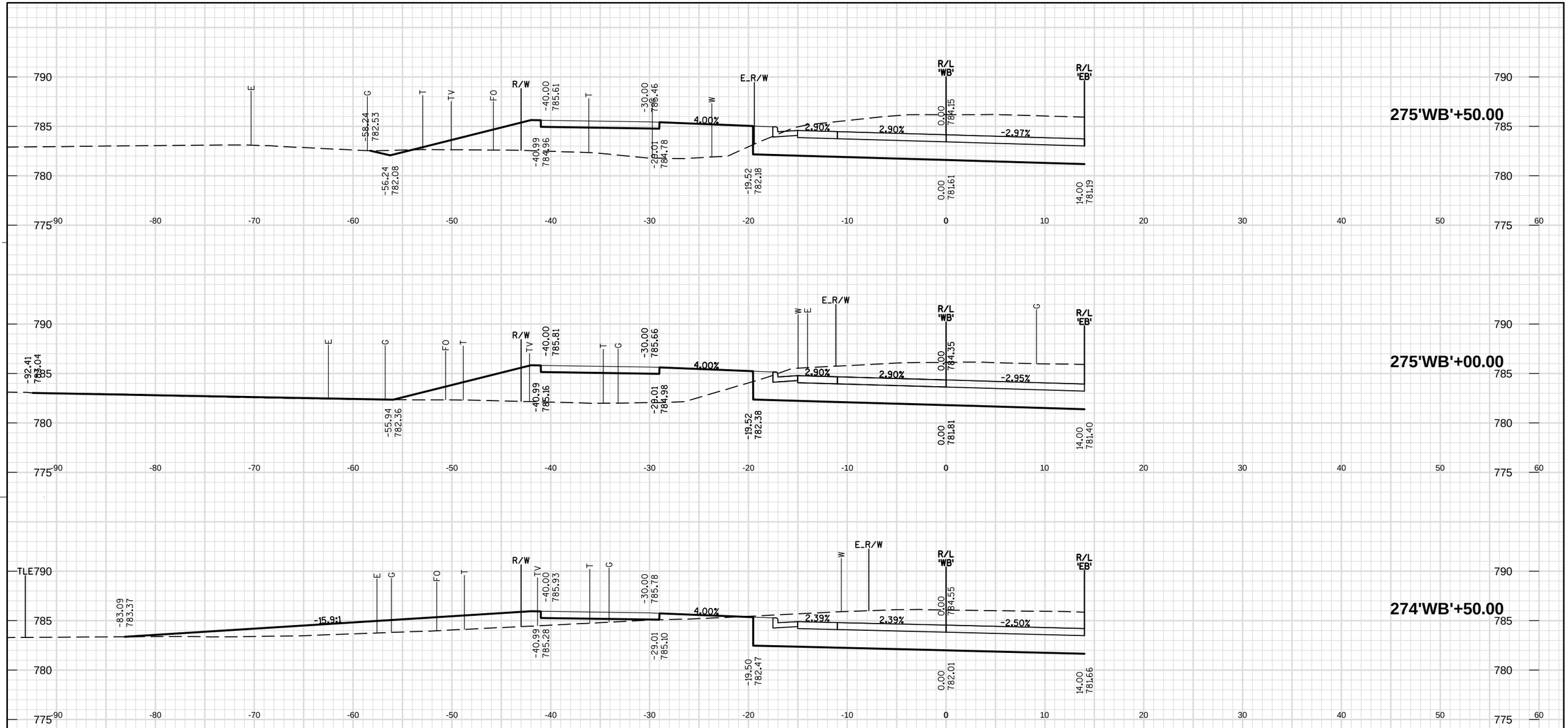
END PROJECT
STA 311'EB'+06.90



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - EB	SHEET: 428 E



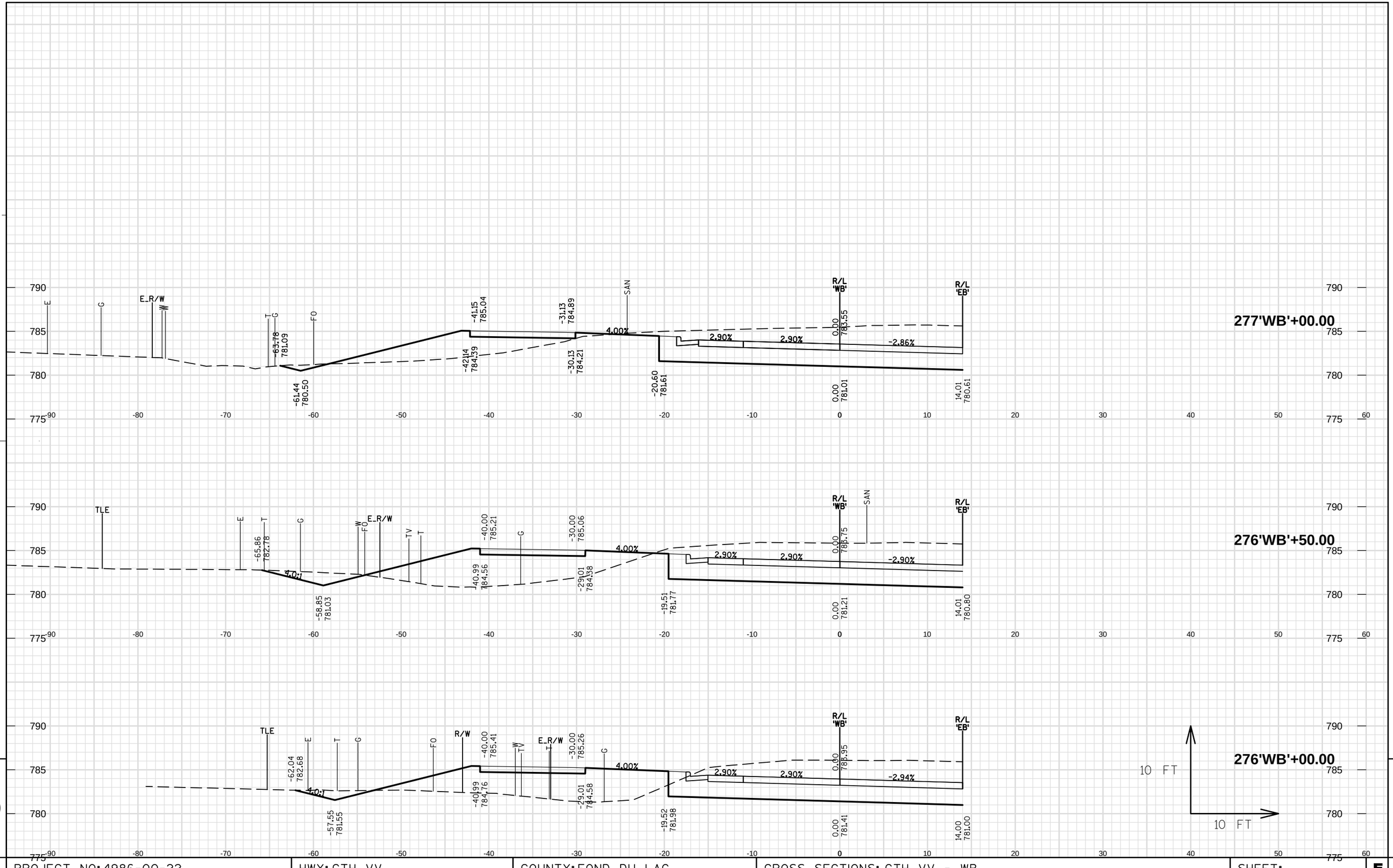
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 429 E



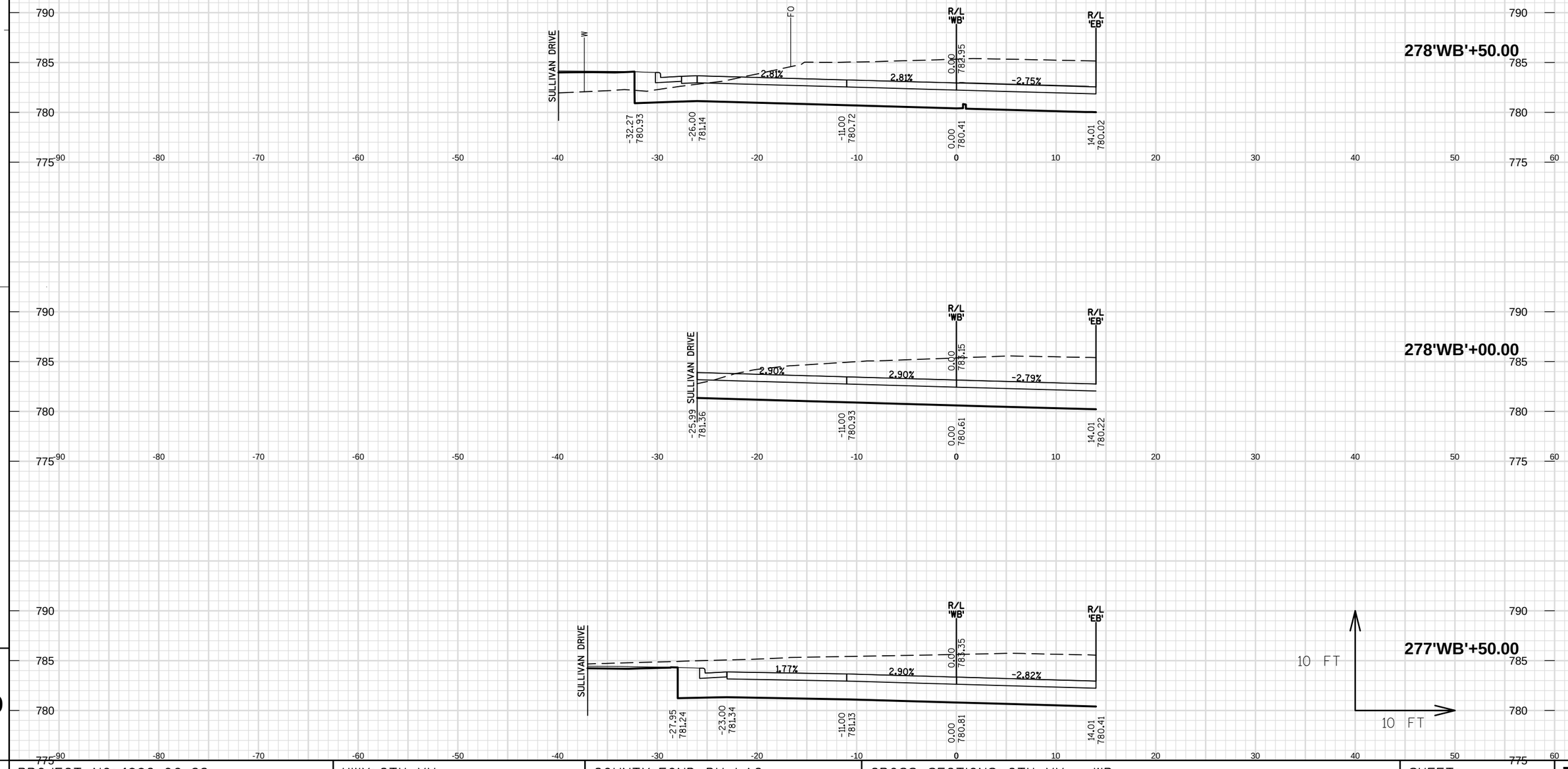
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 430 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:18 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 431	E



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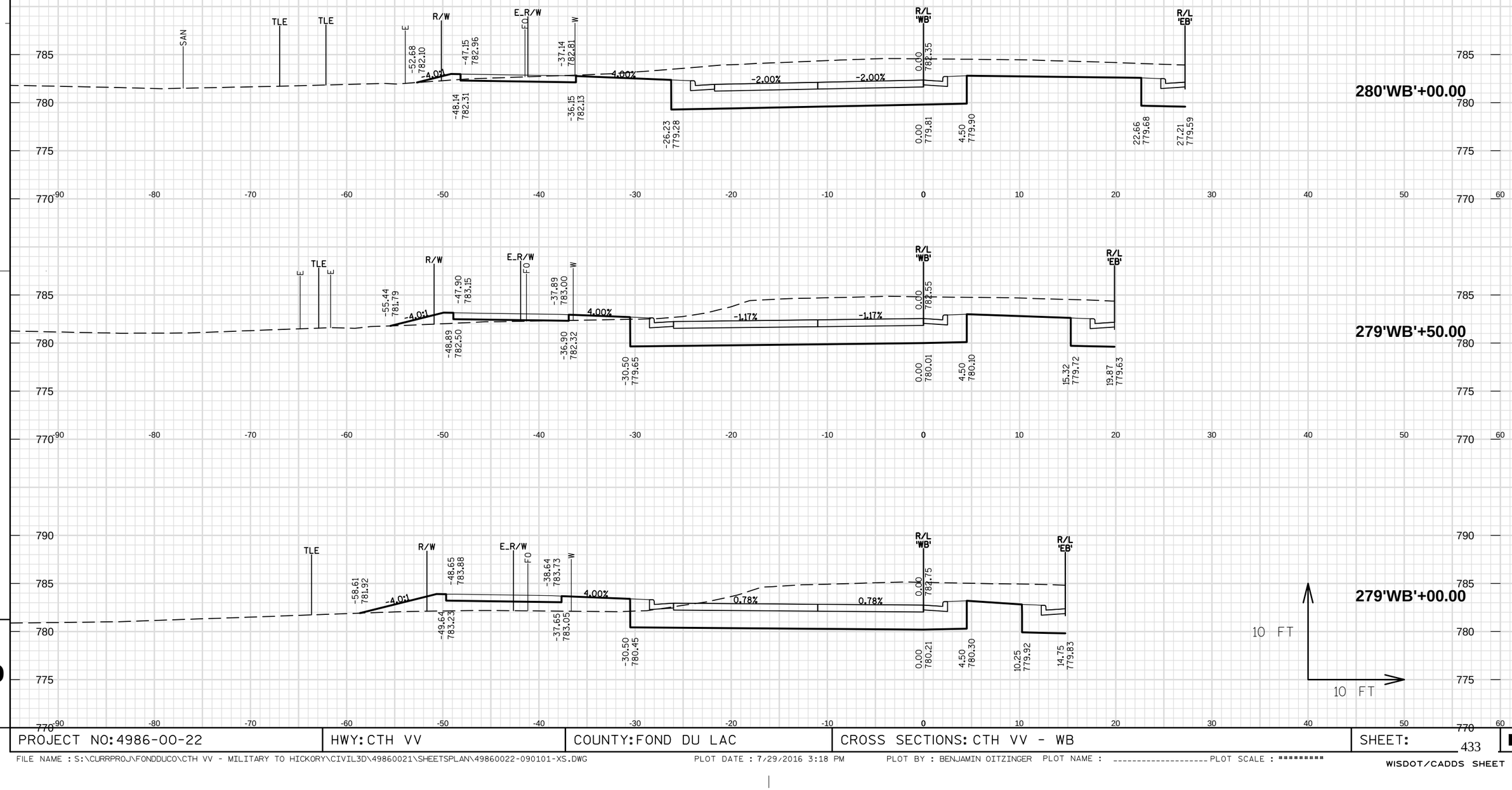
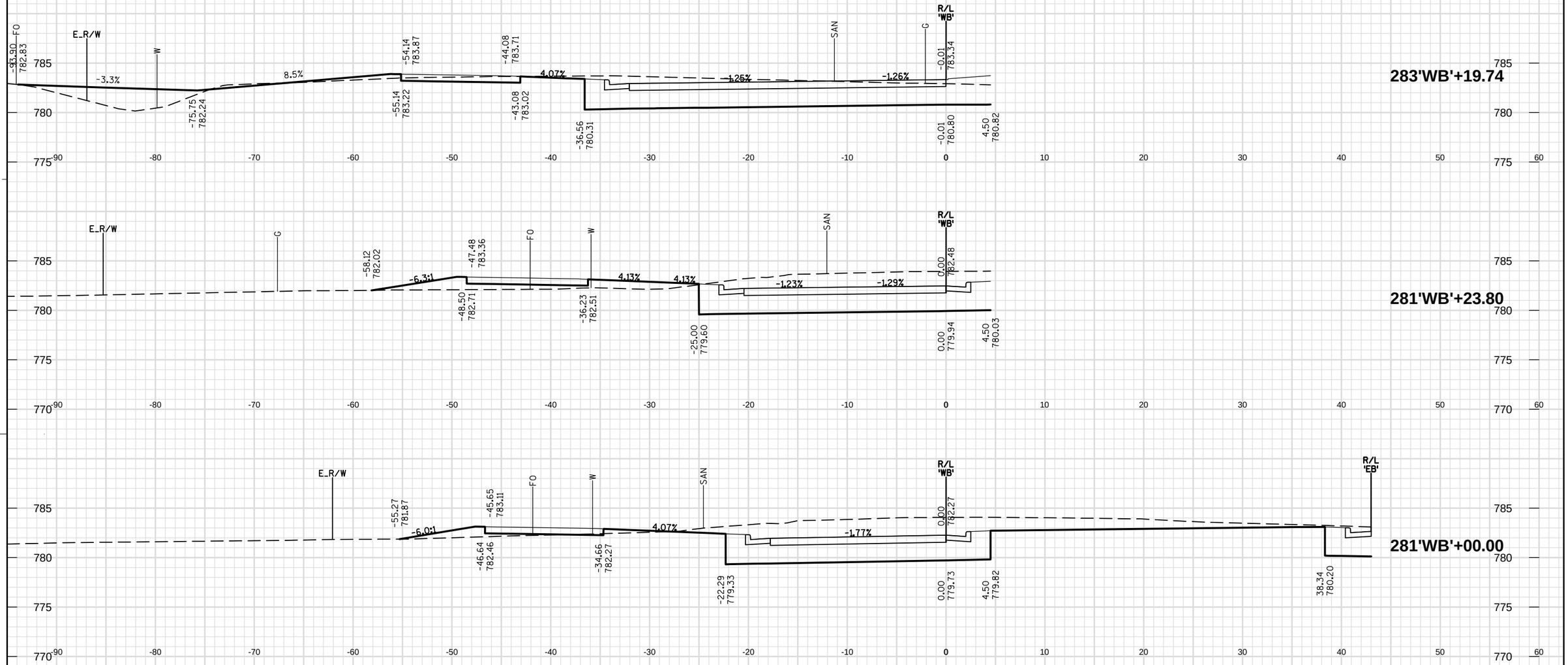
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 432	E



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 433 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:18 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********
WISDOT/CADDS SHEET 49



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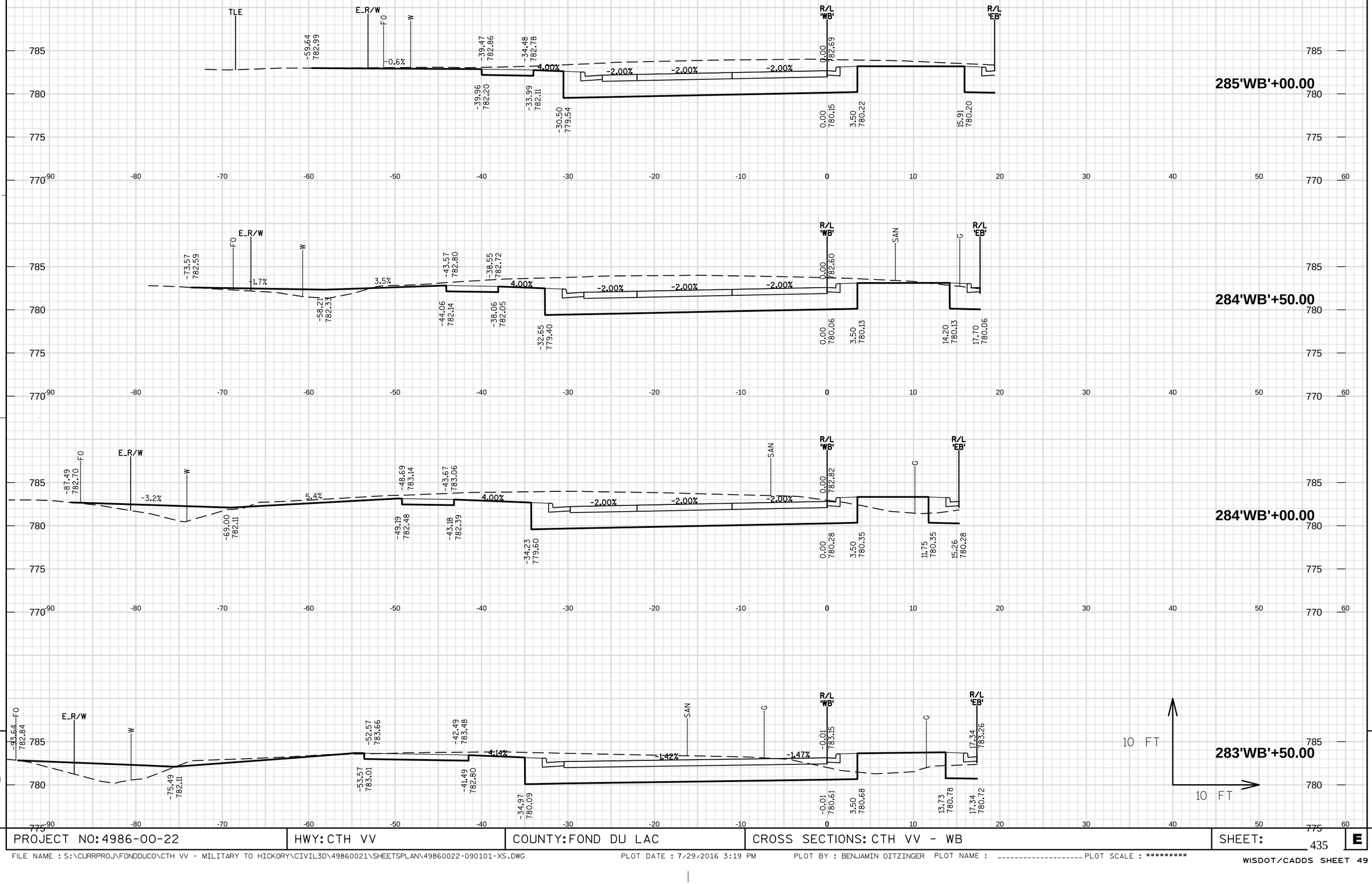
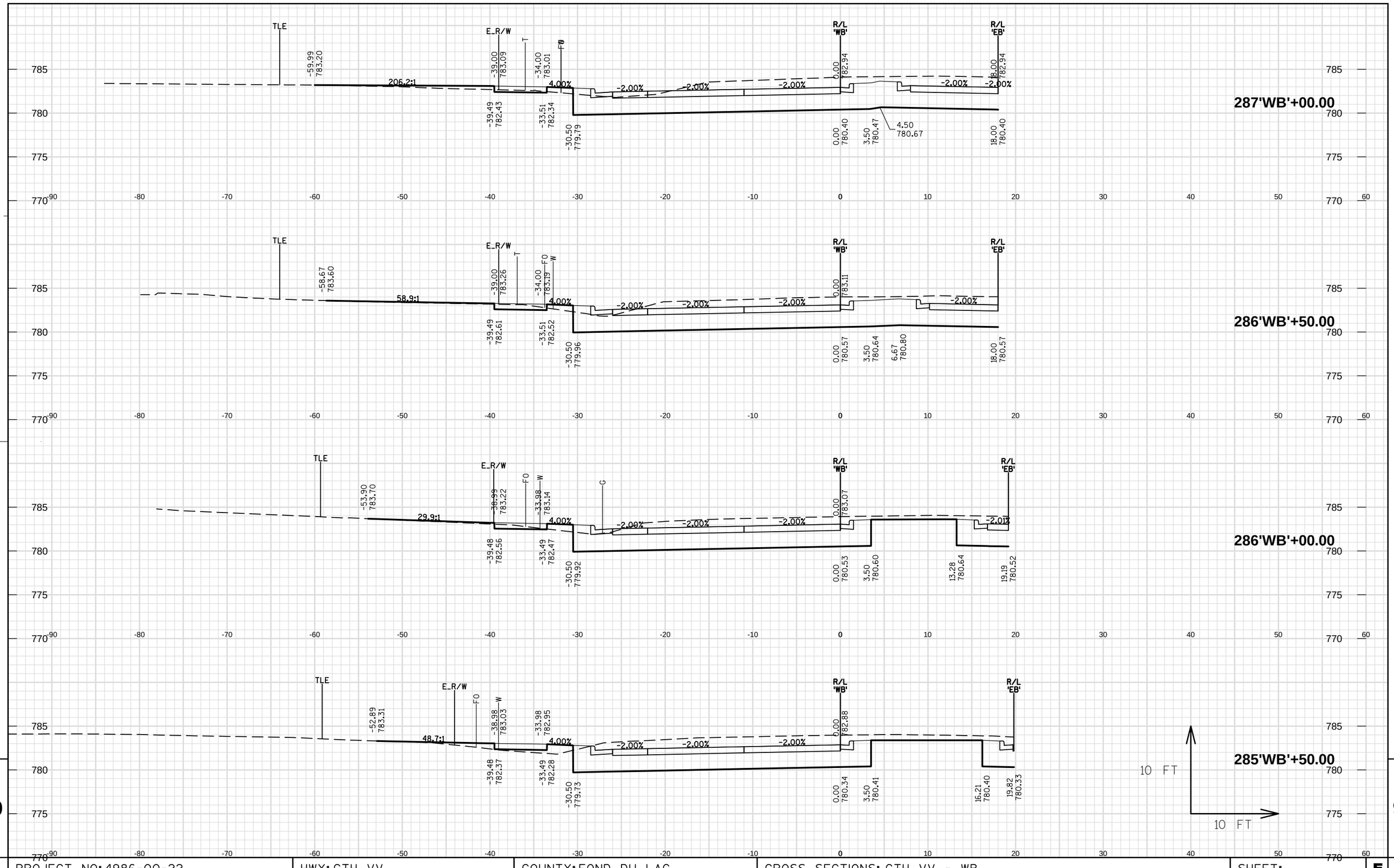
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 434	E



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 435 E

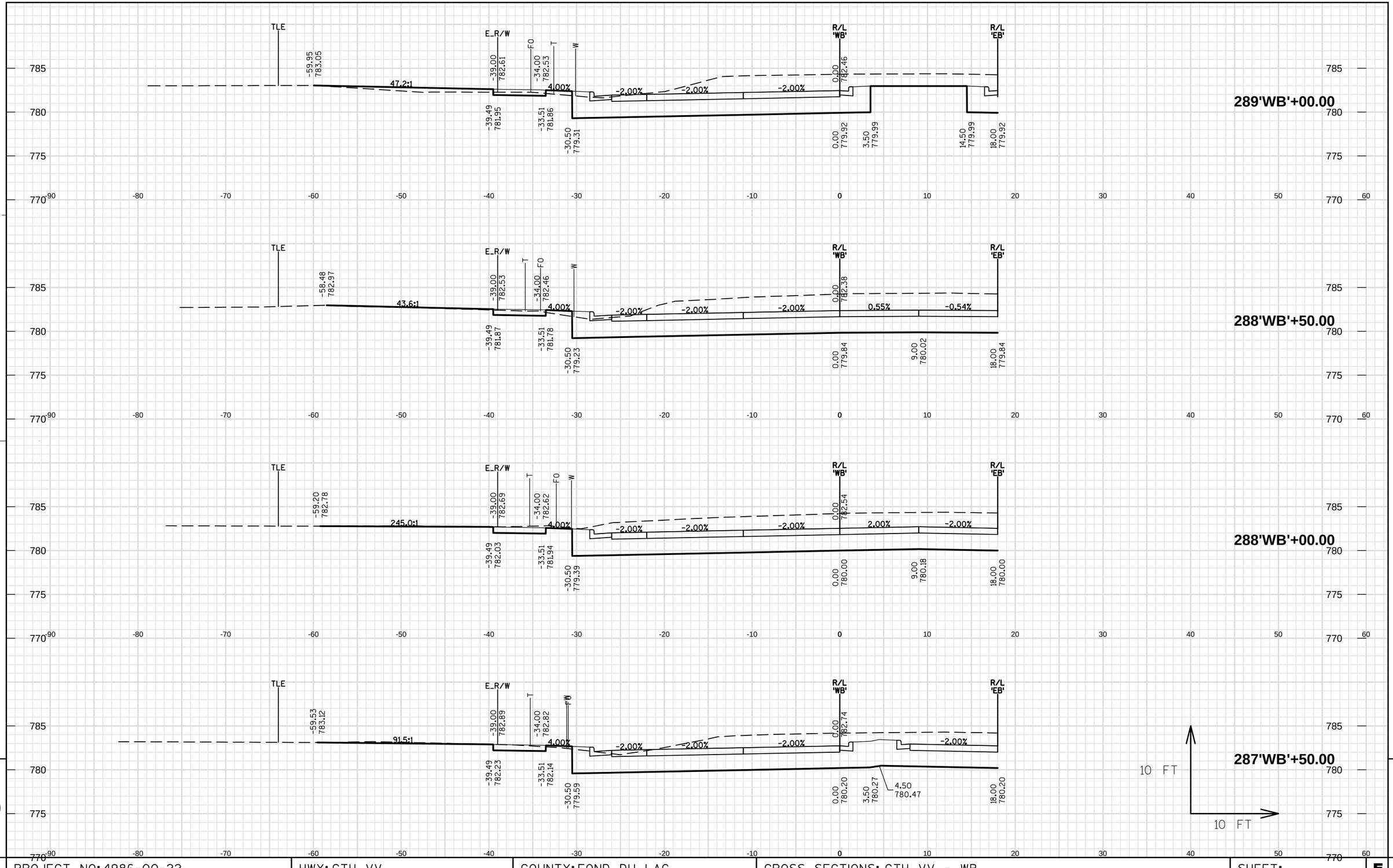
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********
WISDOT/CADDS SHEET 49



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 436	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

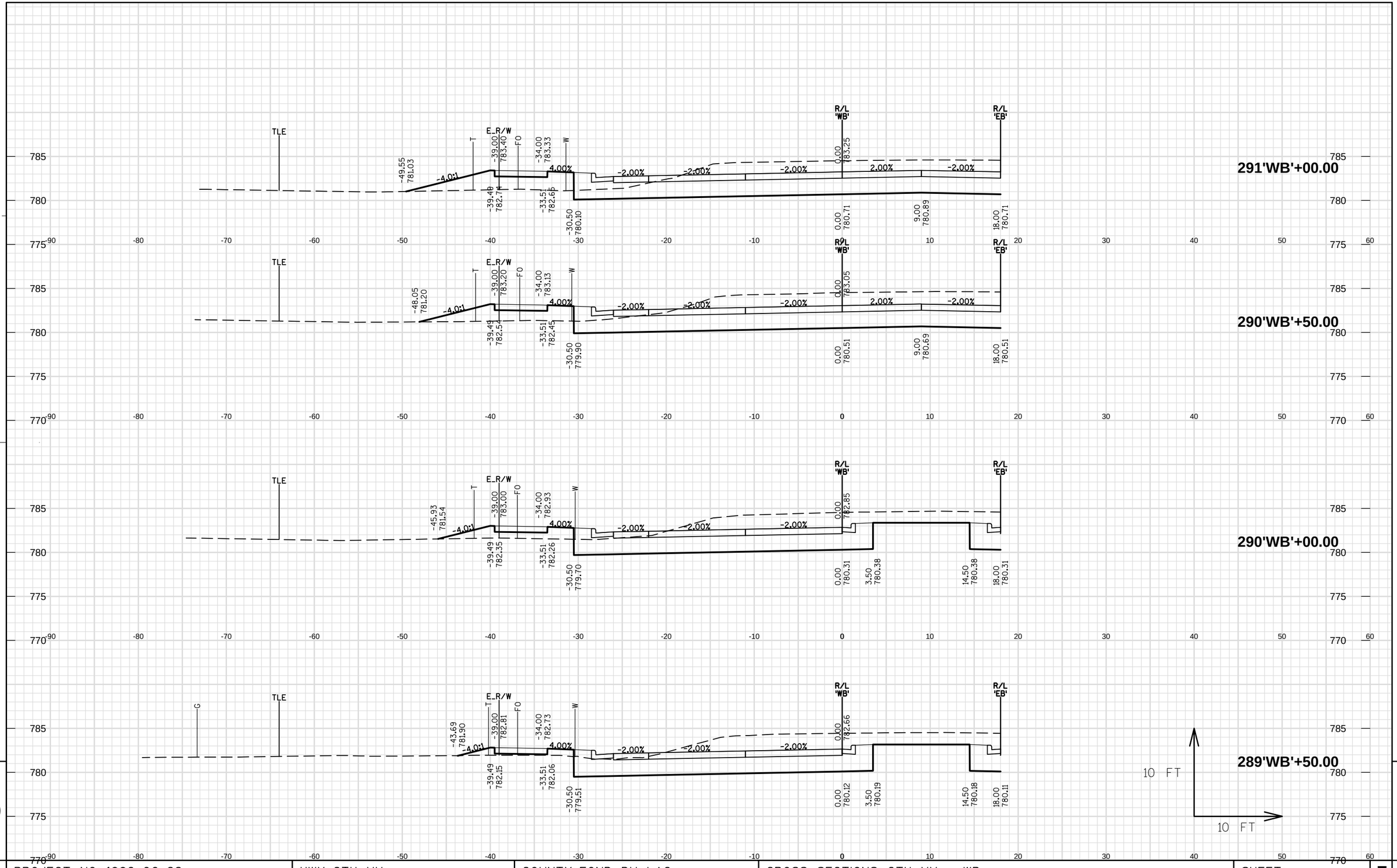
WISDOT/CADDS SHEET 49



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 437 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : ********

WISDOT/CADDS SHEET 49



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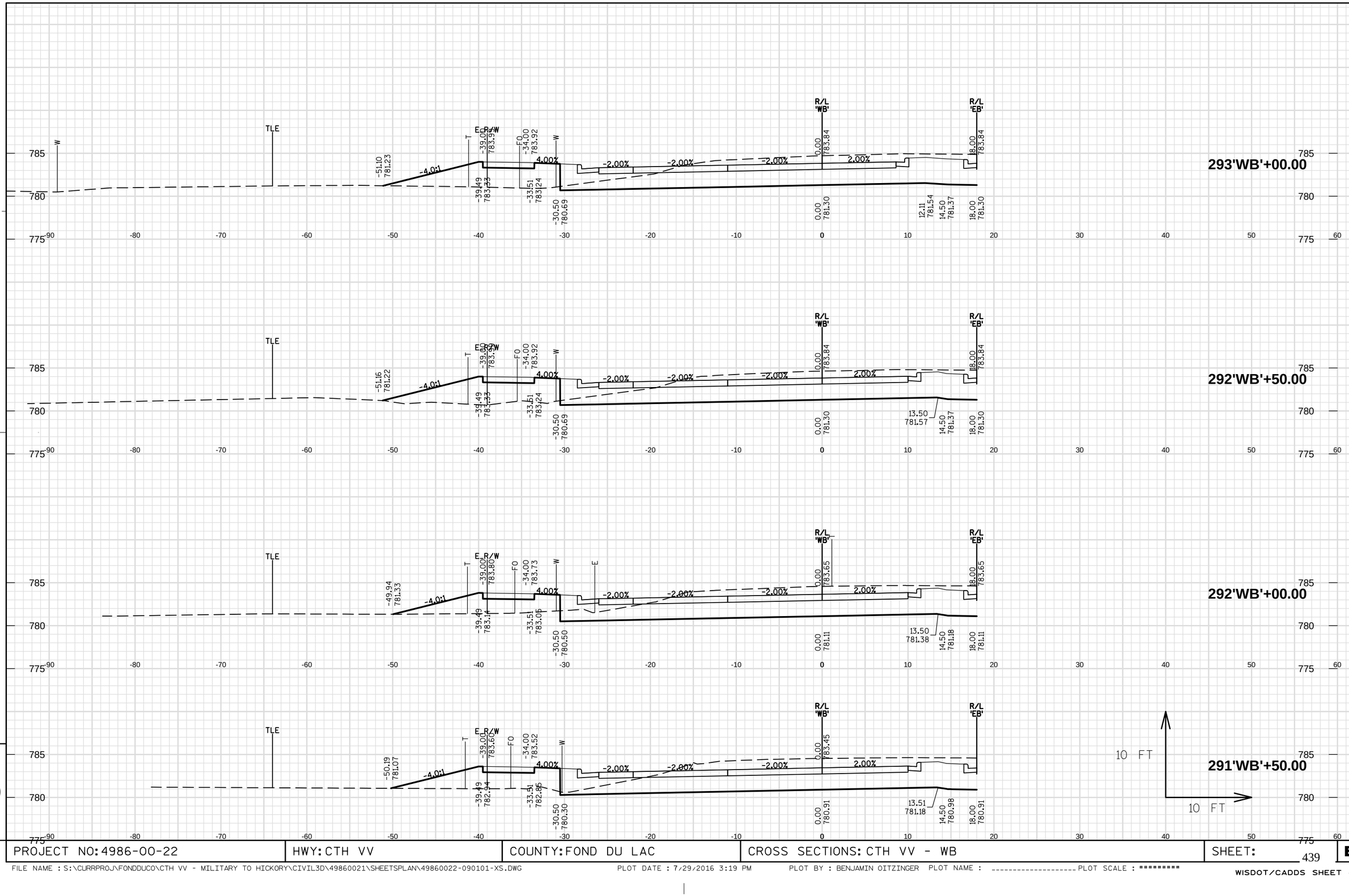
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 438	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



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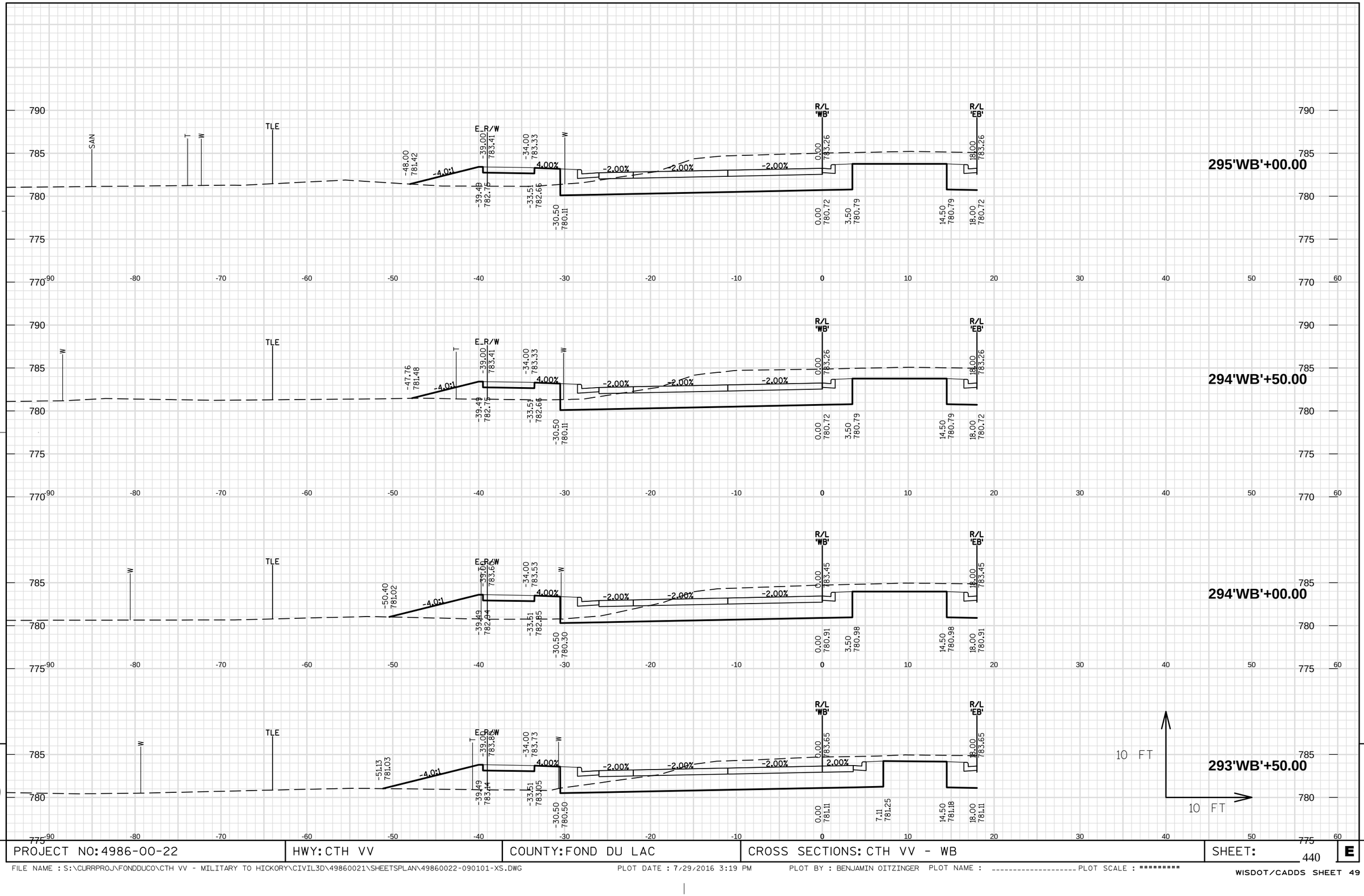
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 439	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : _____ PLOT SCALE : ********** WISDOT/CADDS SHEET 49



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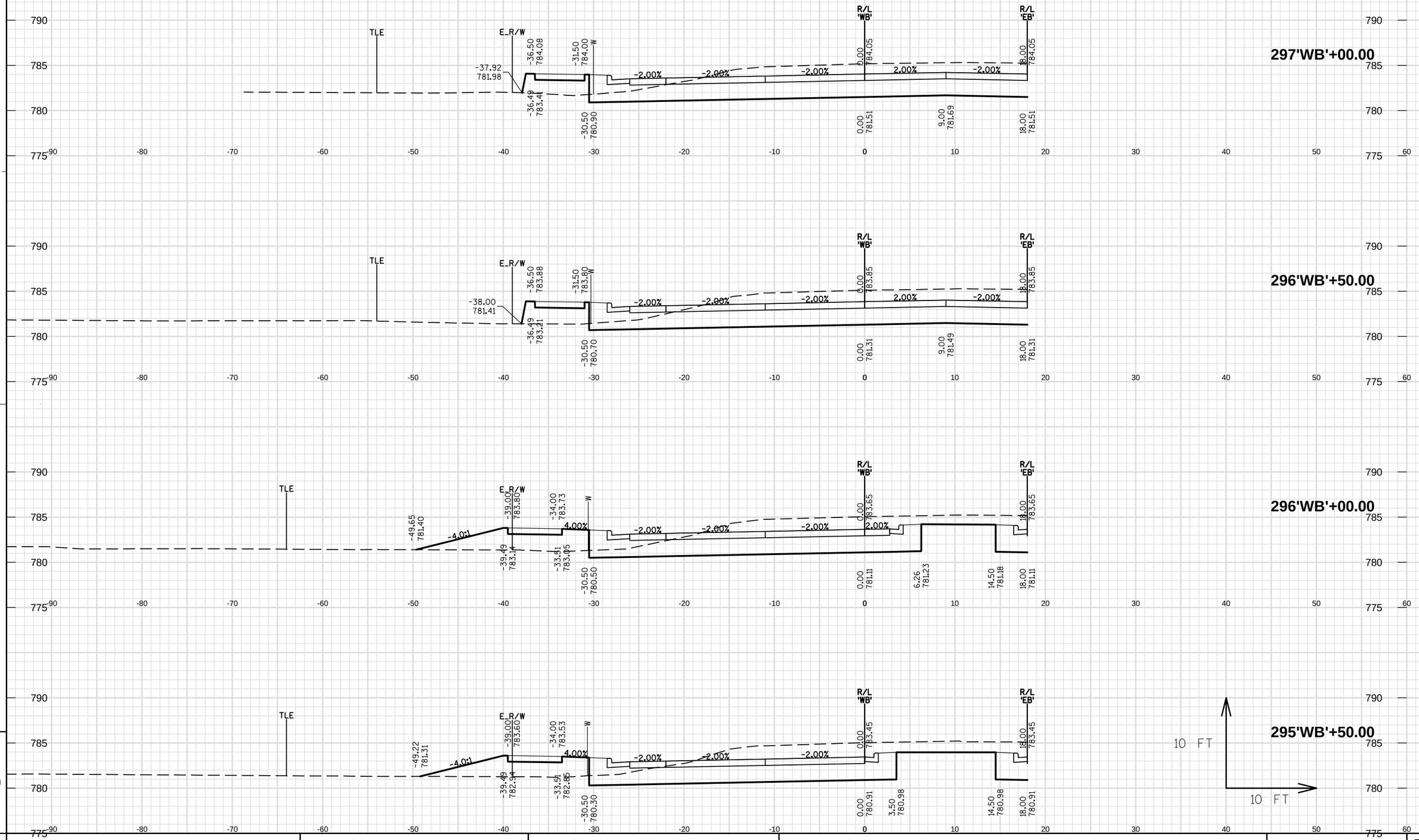
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 440	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : _____ PLOT SCALE : **********



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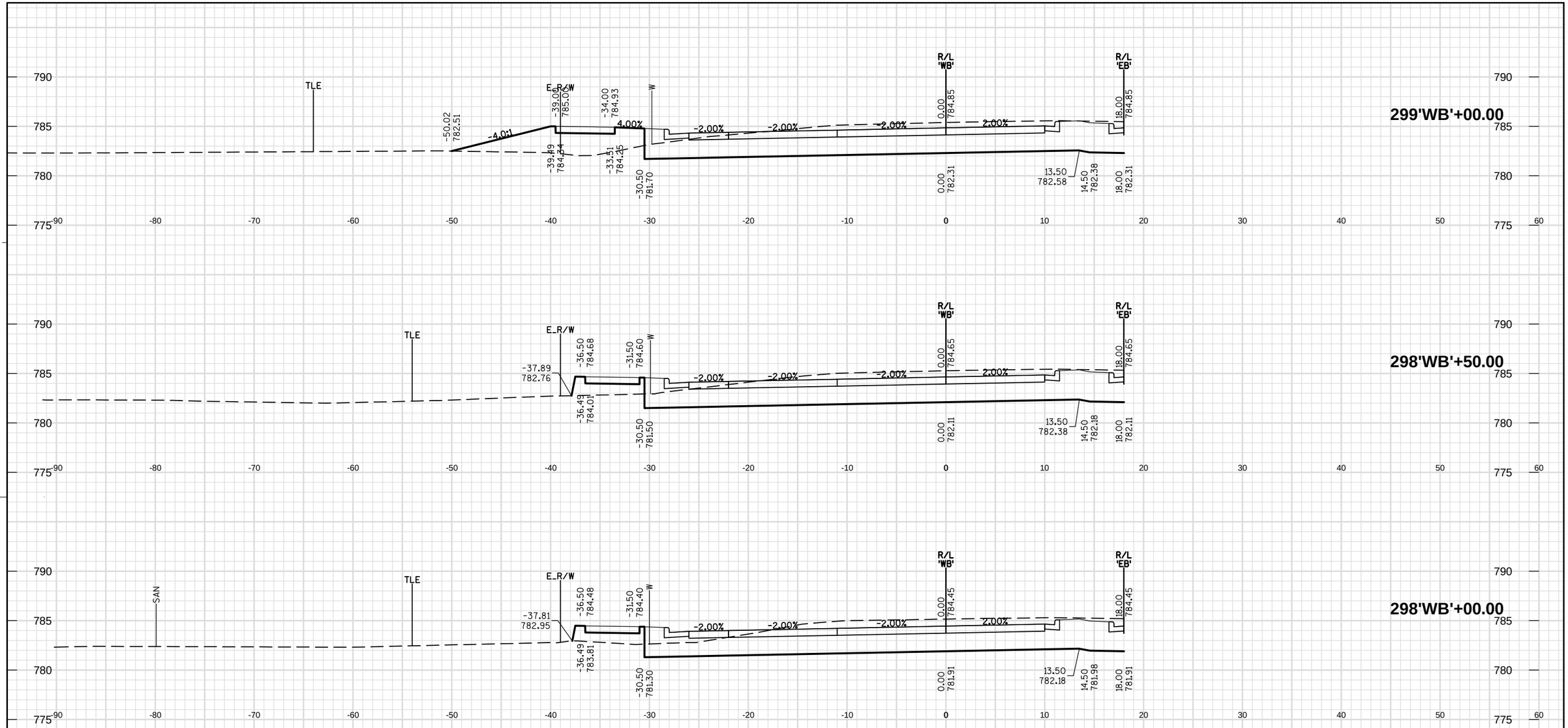
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 441 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********
WISDOT/CADDS SHEET 49



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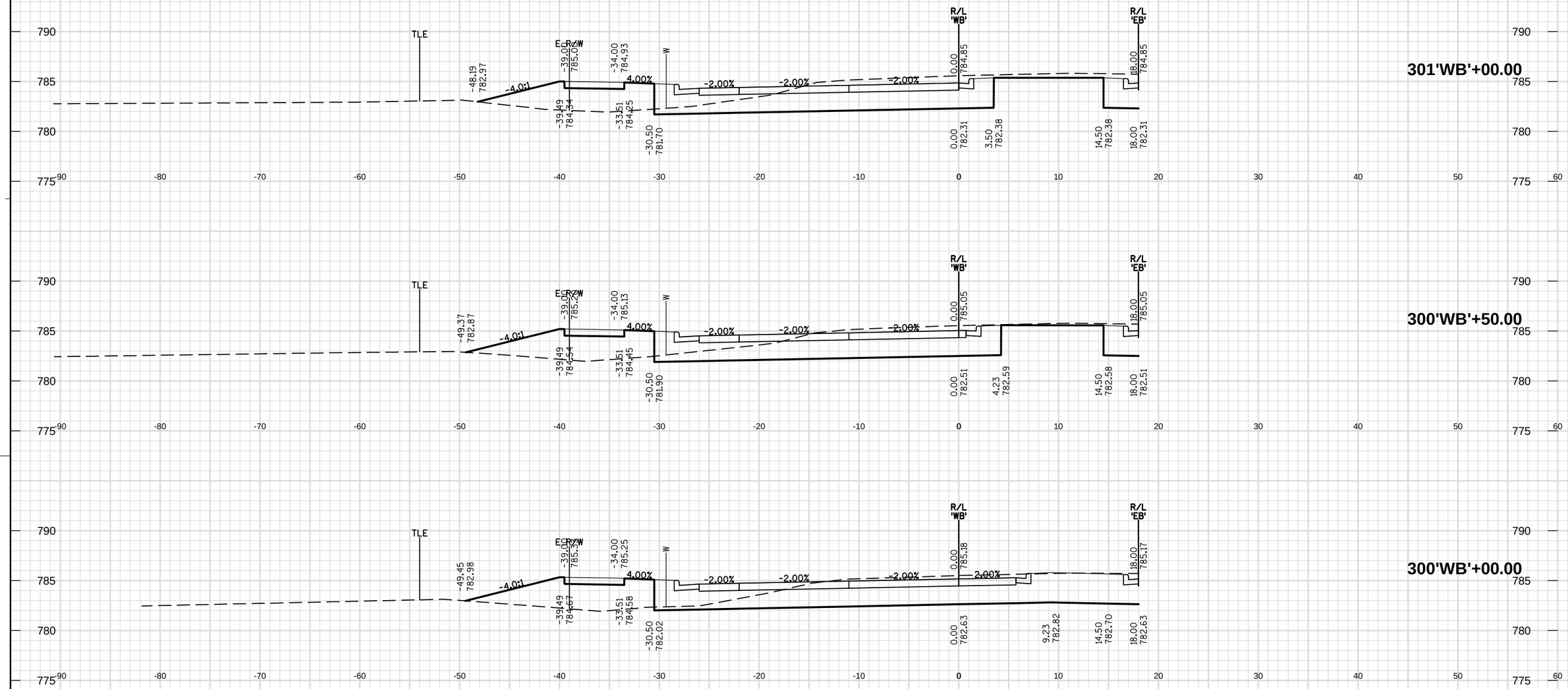
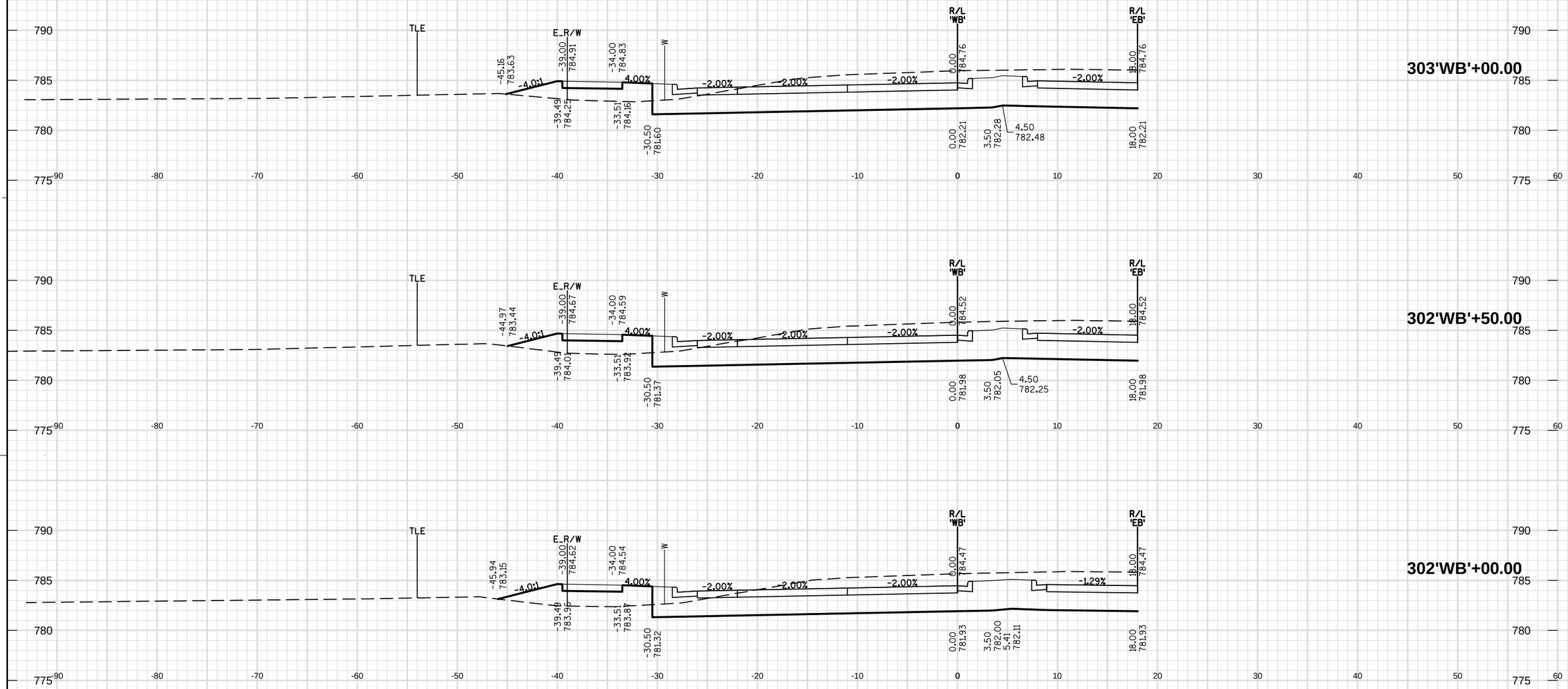
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 442	E



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 443 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



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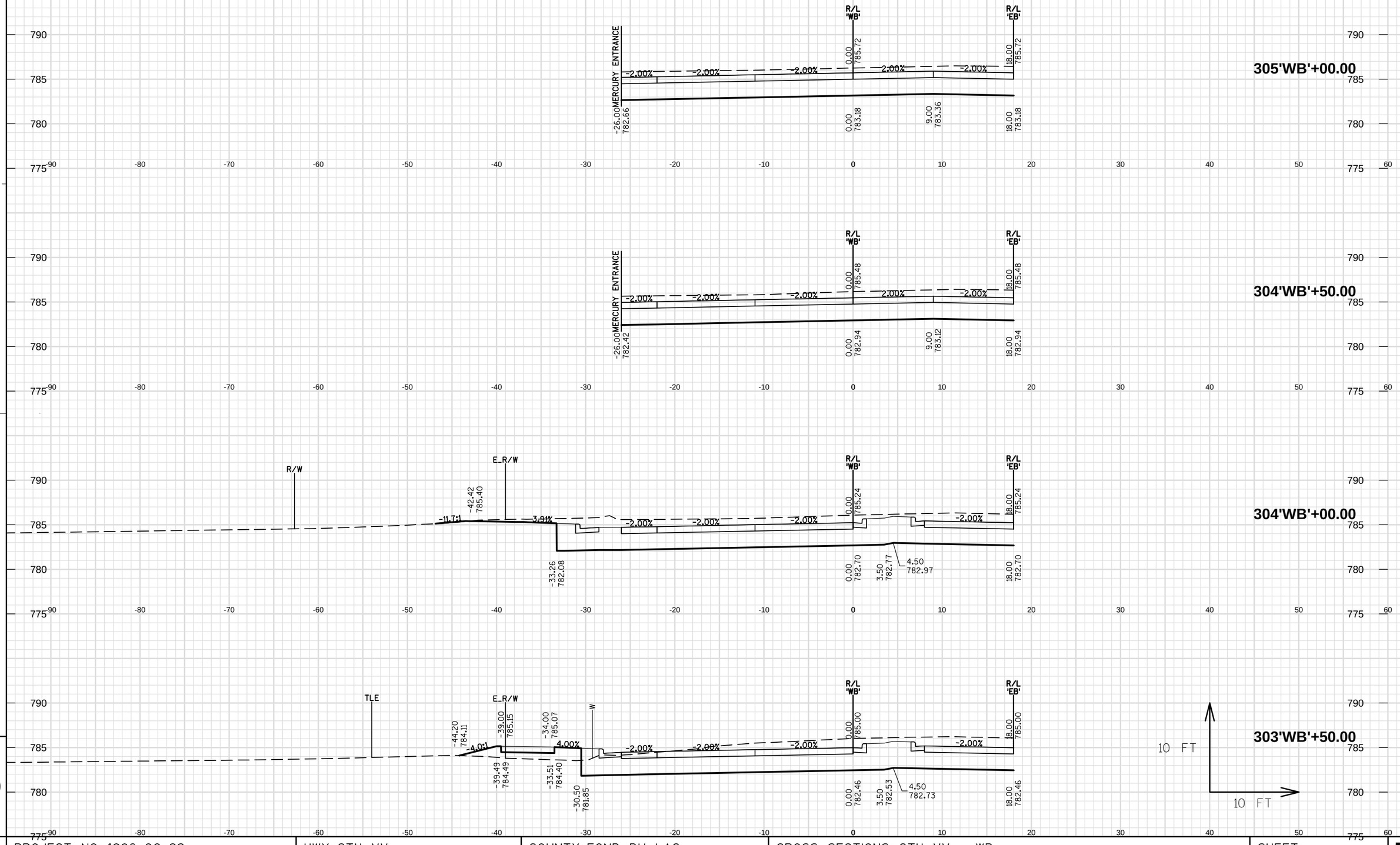
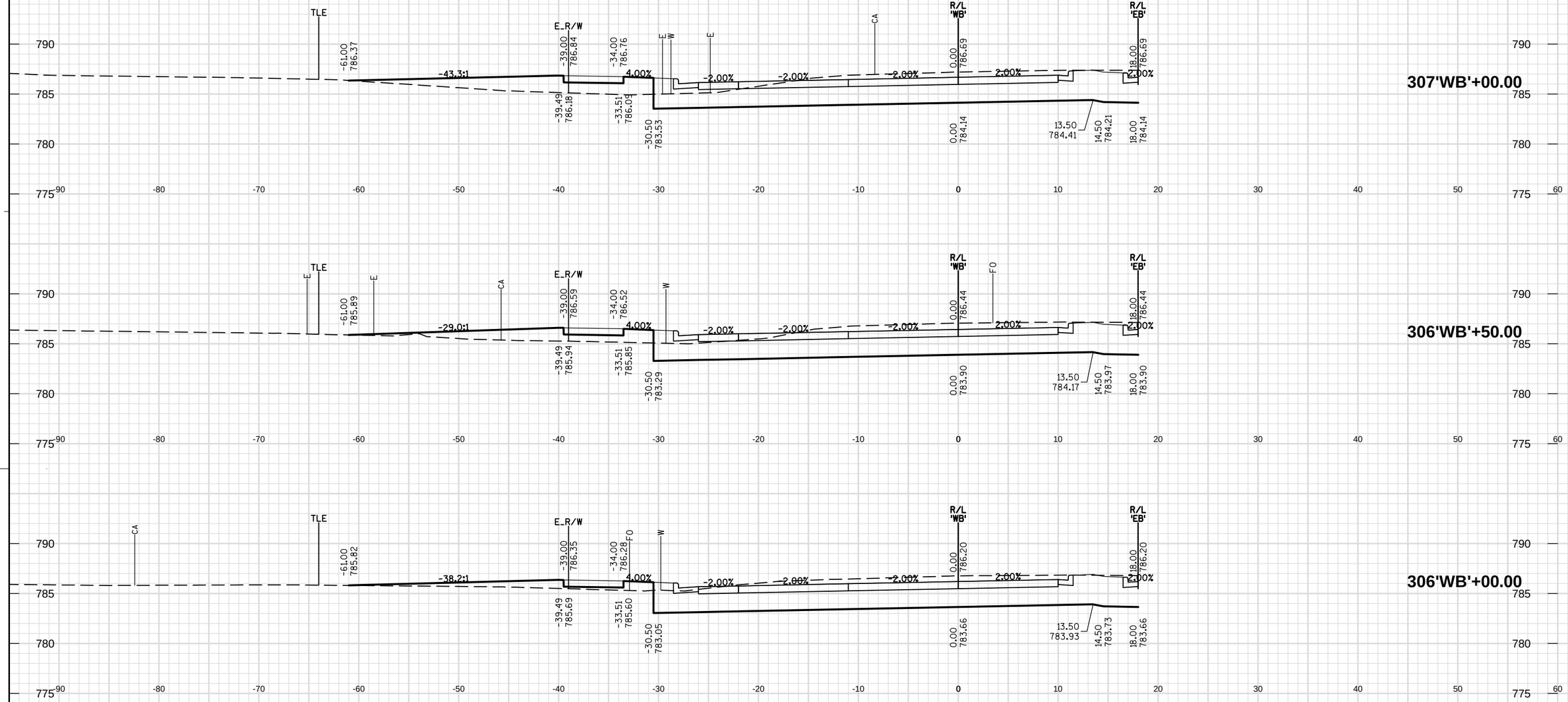
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 444	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : ********* WISDOT/CADDS SHEET 49



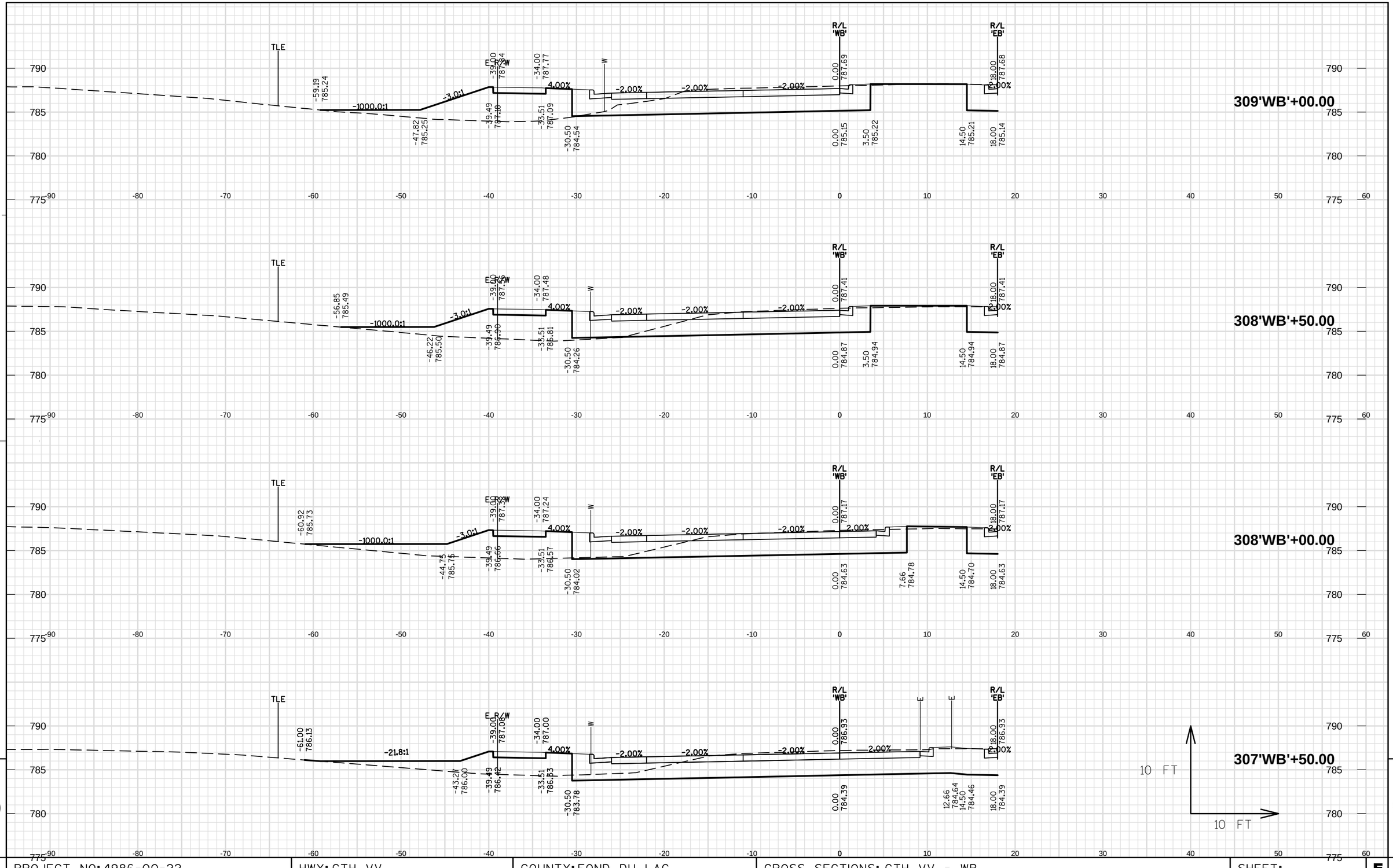
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 445 E



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 446	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : ********

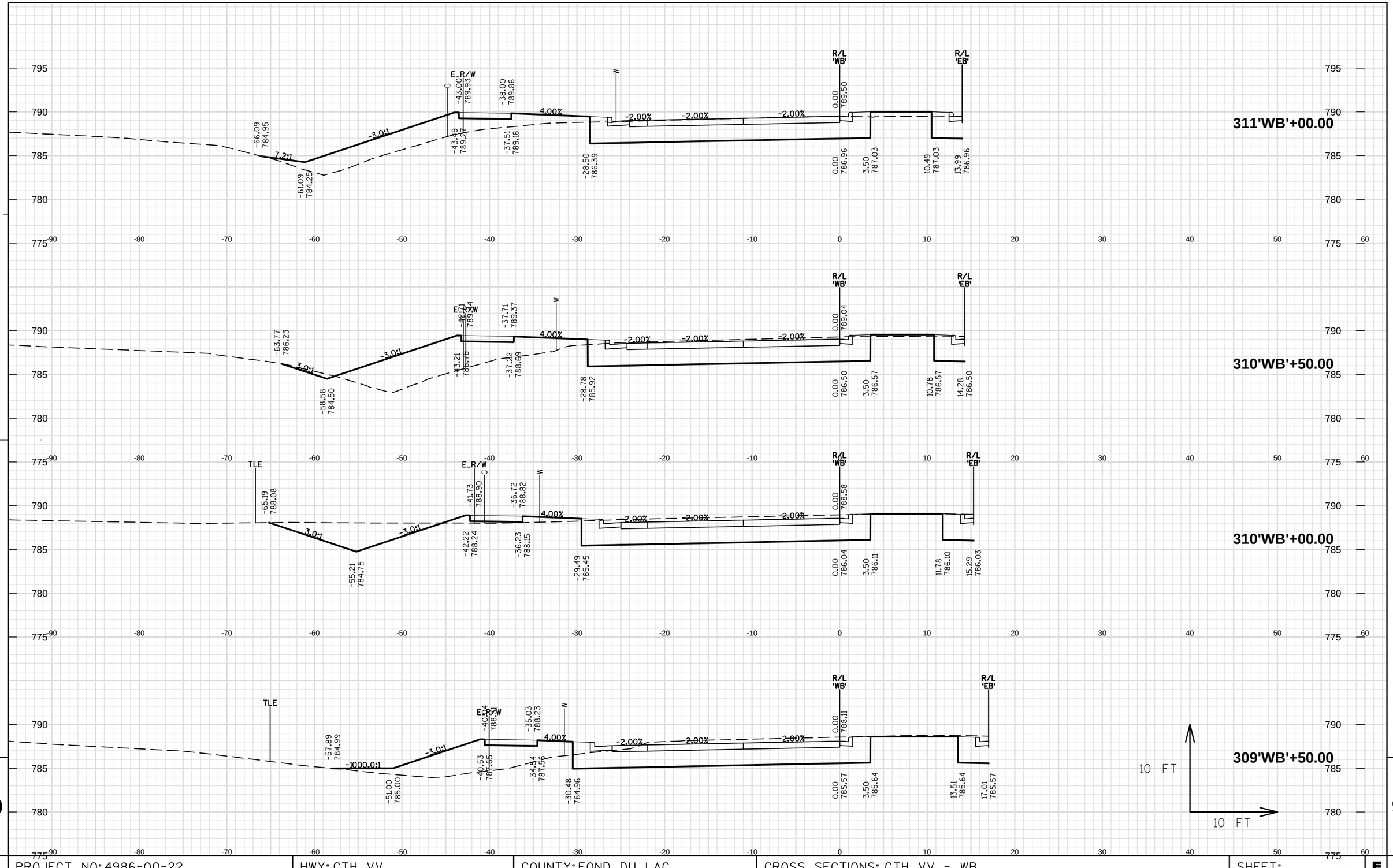
WISDOT/CADDS SHEET 49



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 447 E

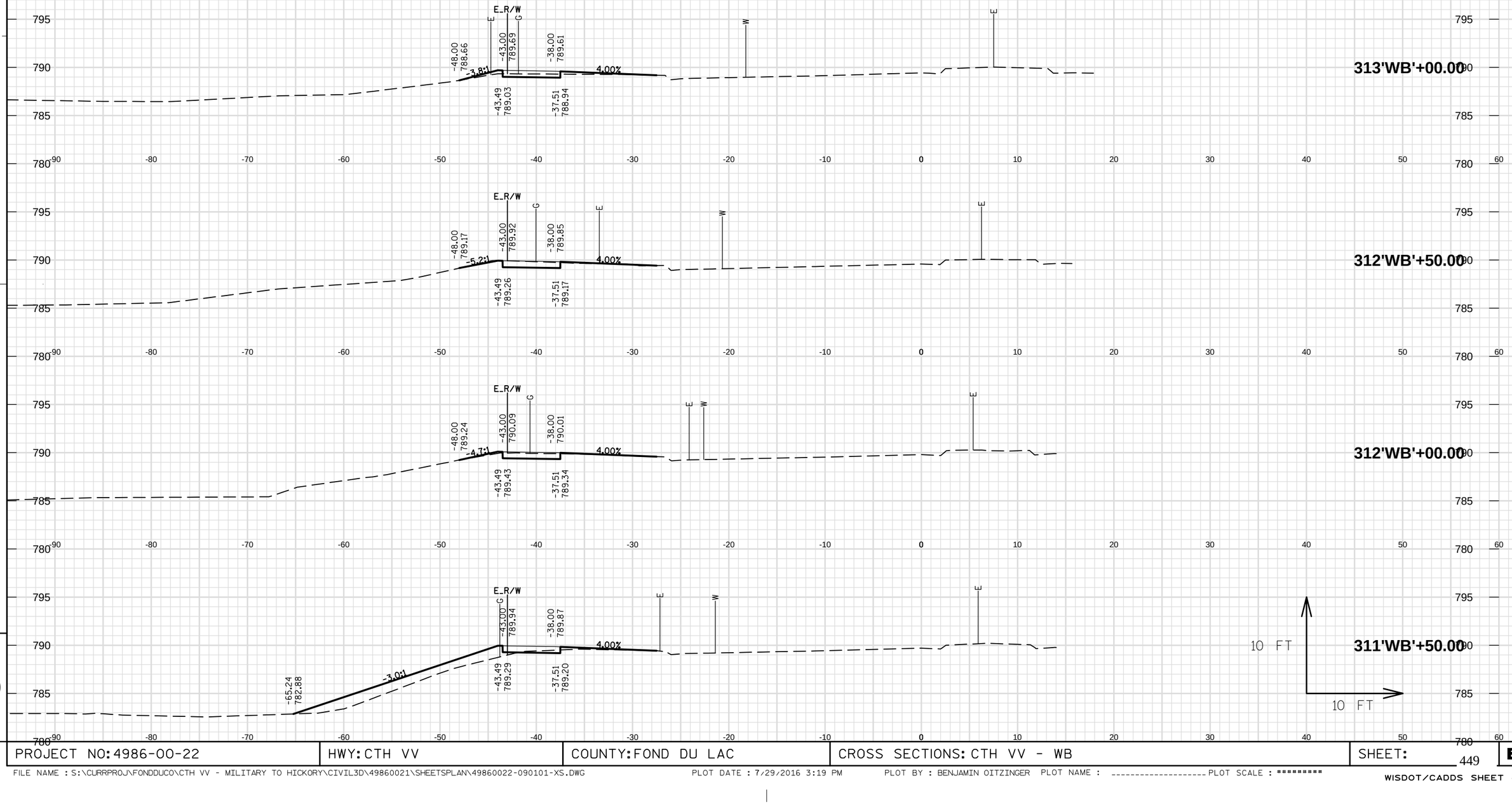
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 448 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********



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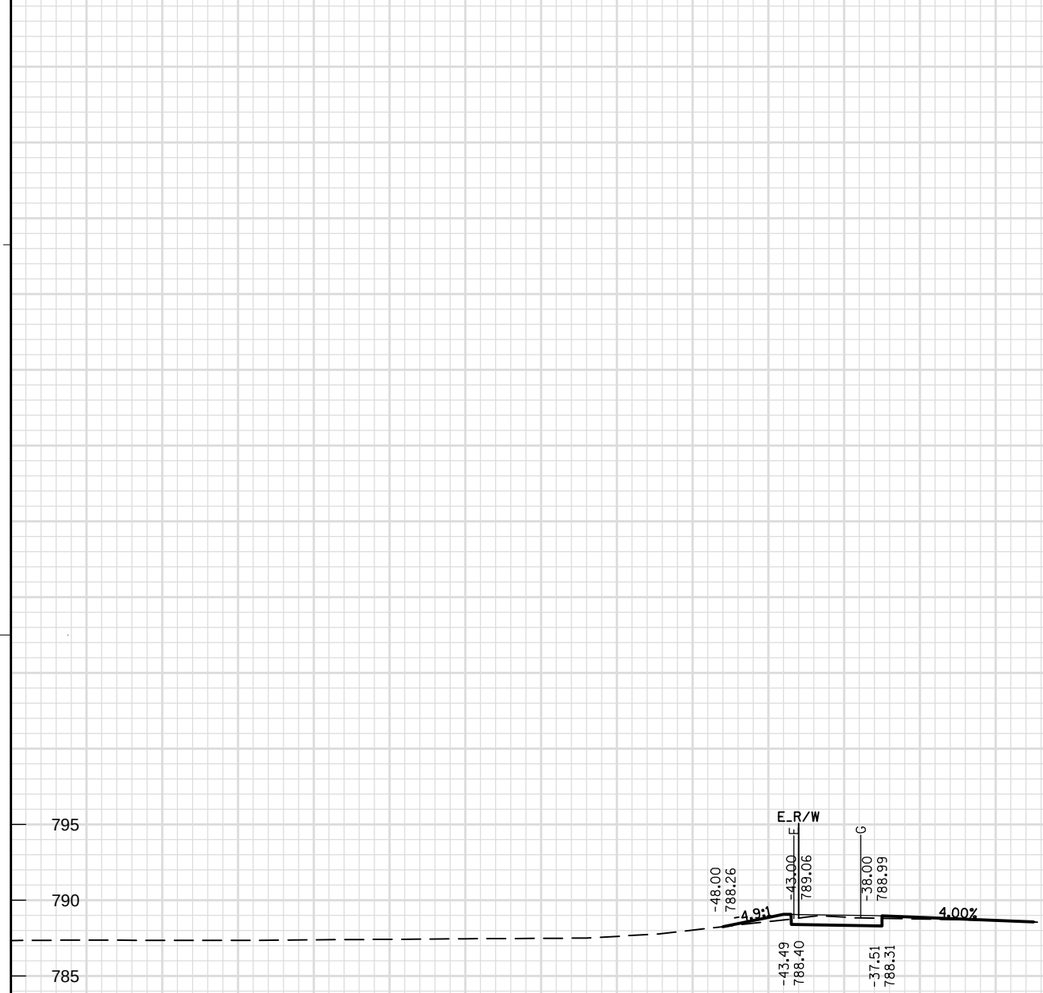
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 449	E

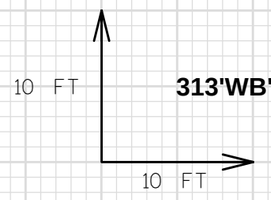
9

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : _____ PLOT SCALE : *********

END CONSTRUCTION
STA 314'WB'+44.69



314'WB'+00.00



313'WB'+50.00

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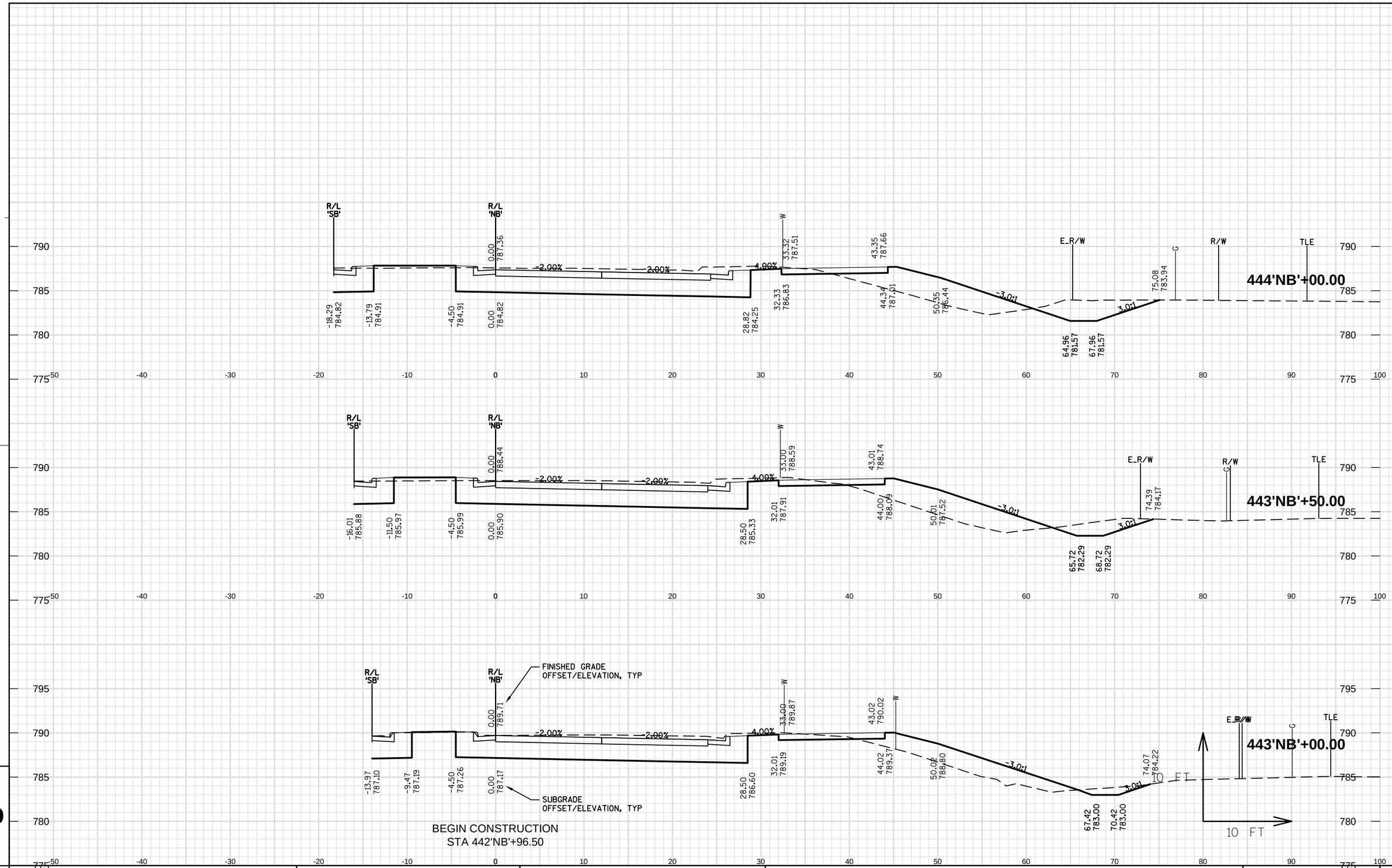
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: CTH VV - WB	SHEET: 450	E

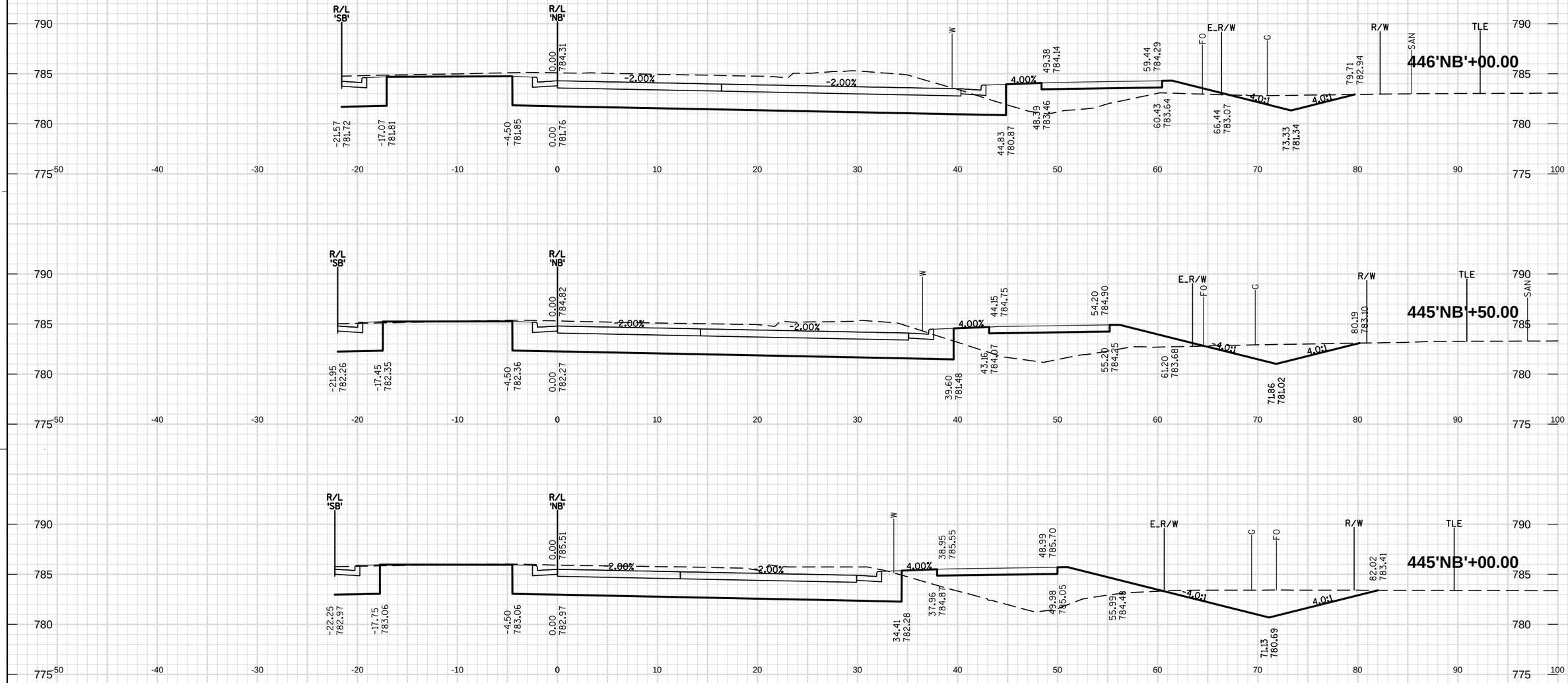
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - NB	SHEET: 451 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:21 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : _____ PLOT SCALE : *********

WISDOT/CADDS SHEET 49



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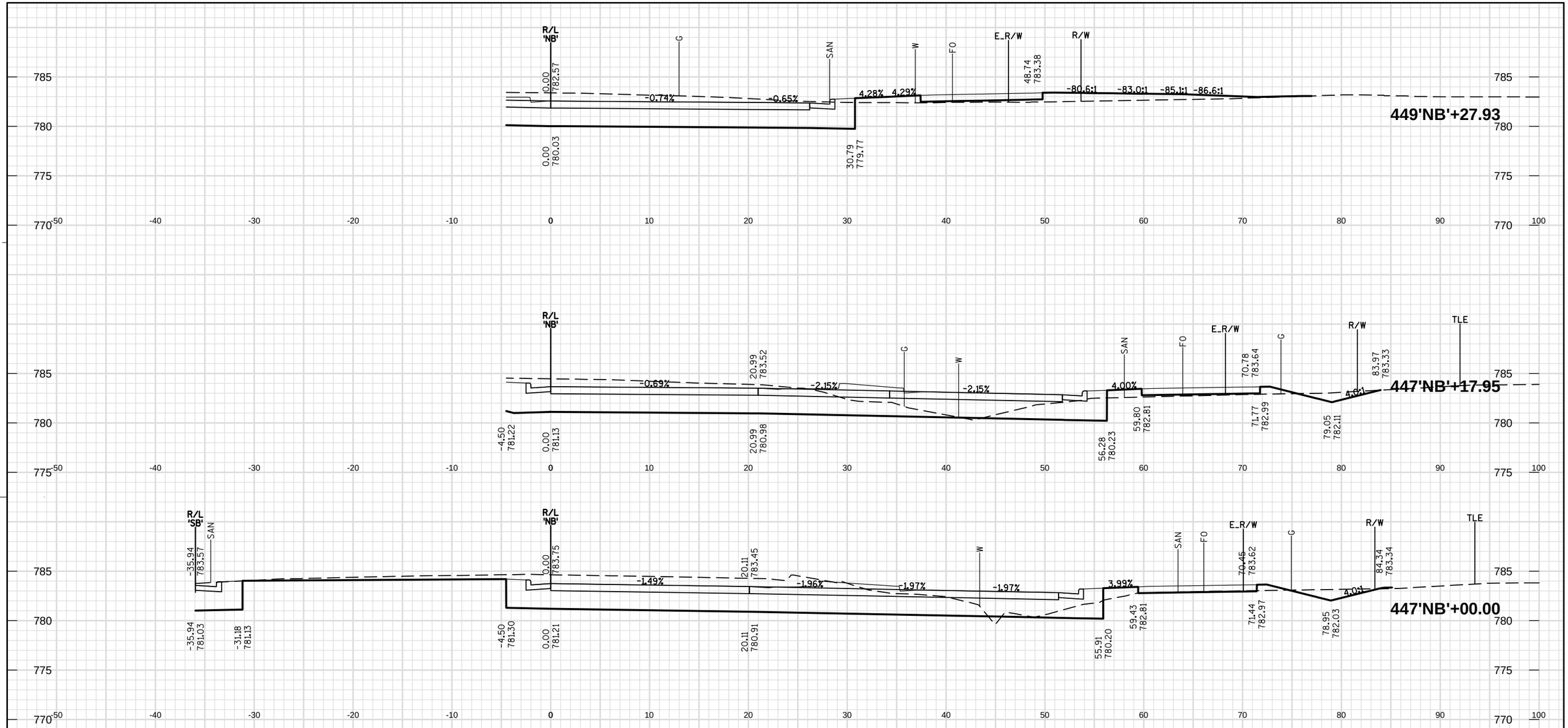
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - NB	SHEET: 452	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:21 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



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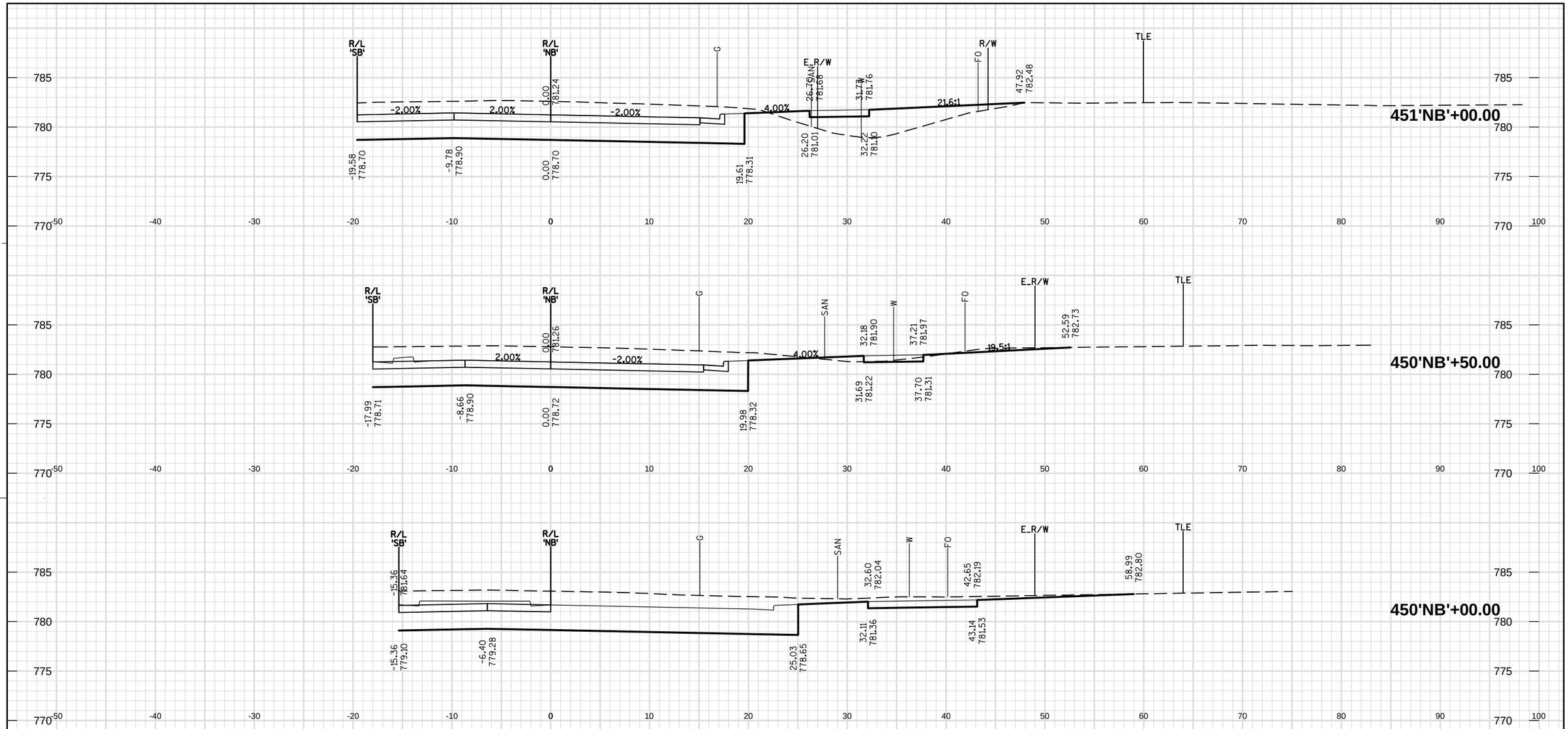
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - NB	SHEET: 453	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:21 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

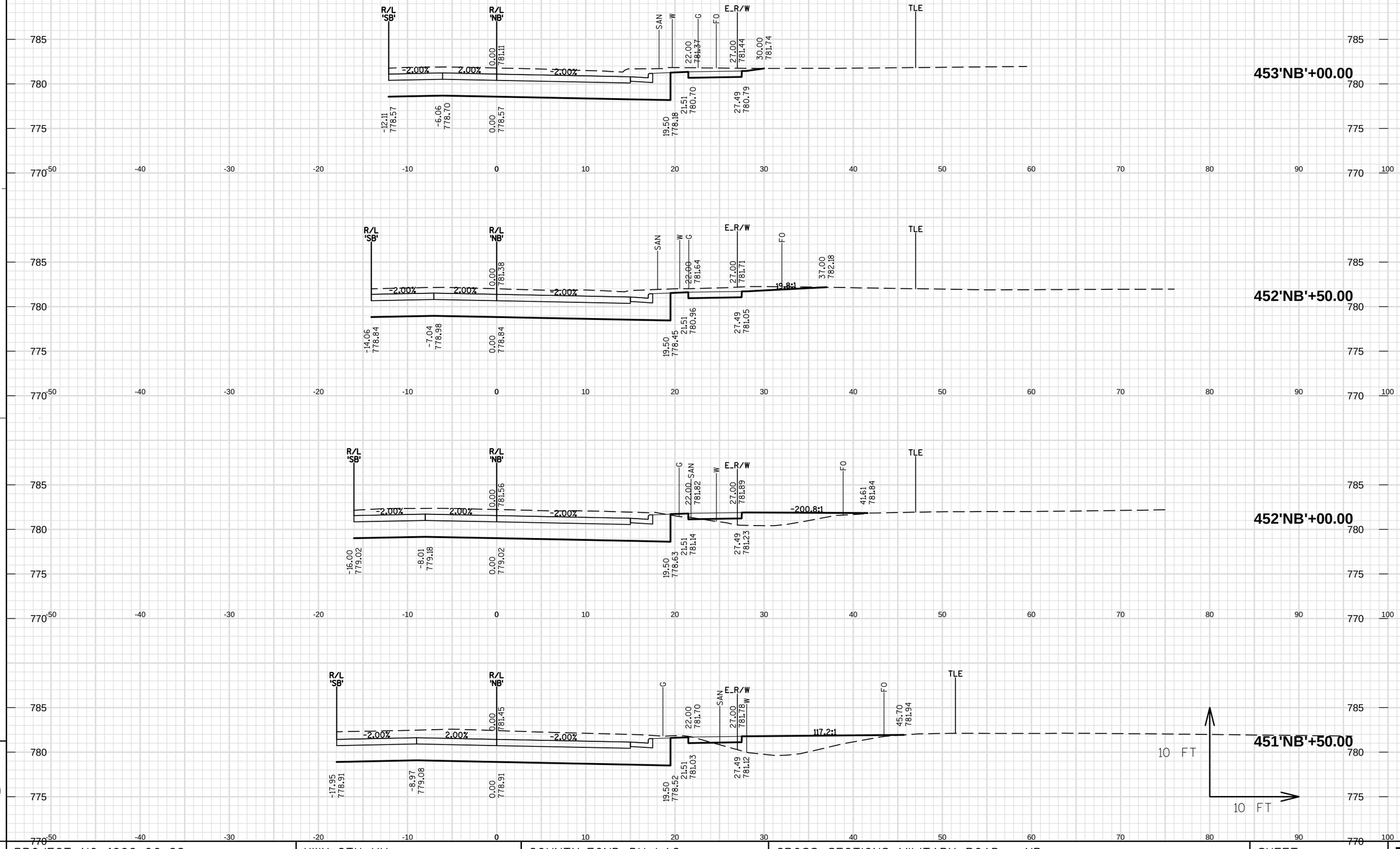
WISDOT/CADDS SHEET 49



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - NB	SHEET: 454 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:21 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



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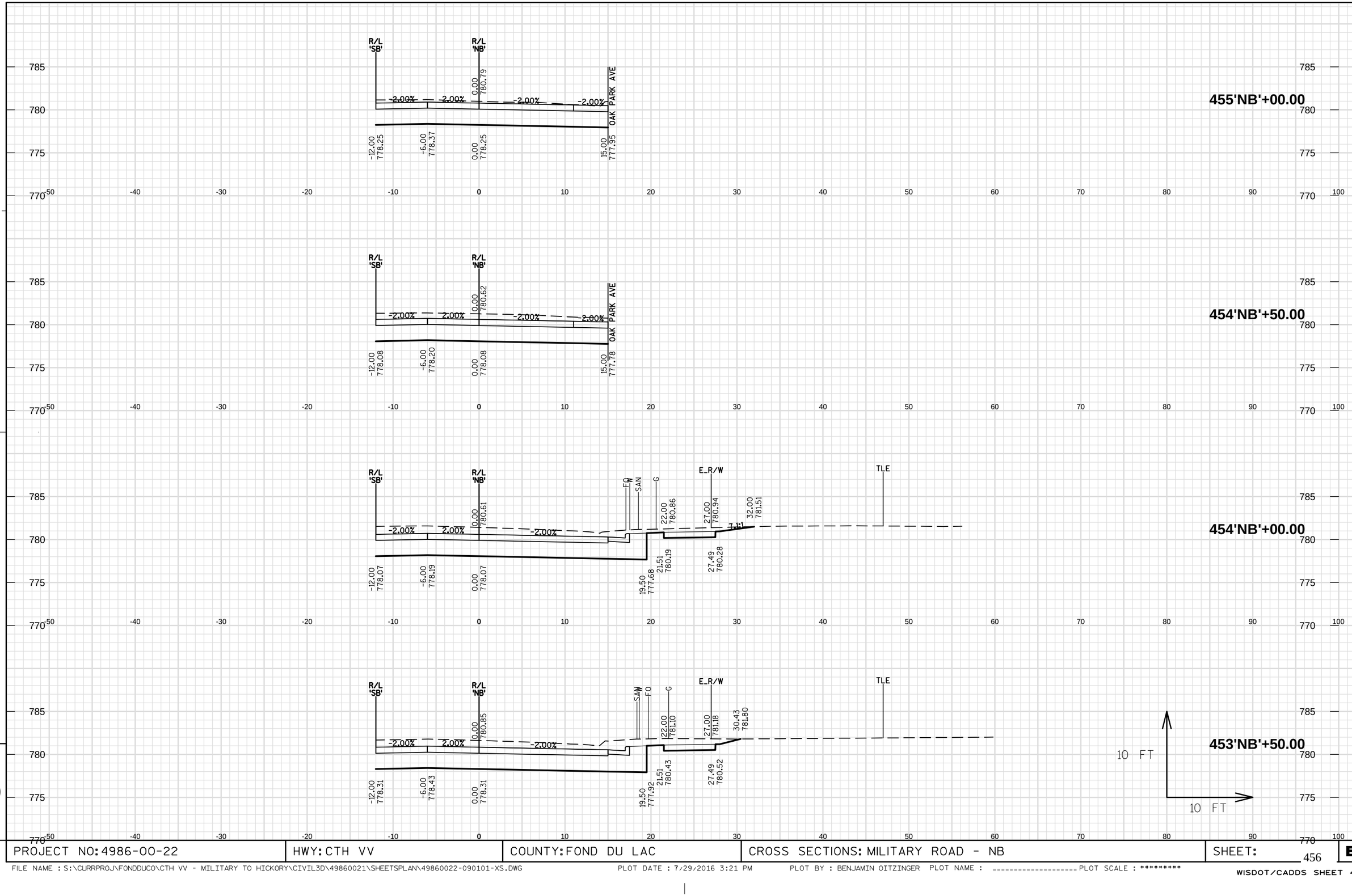
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - NB	SHEET: 455	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:21 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



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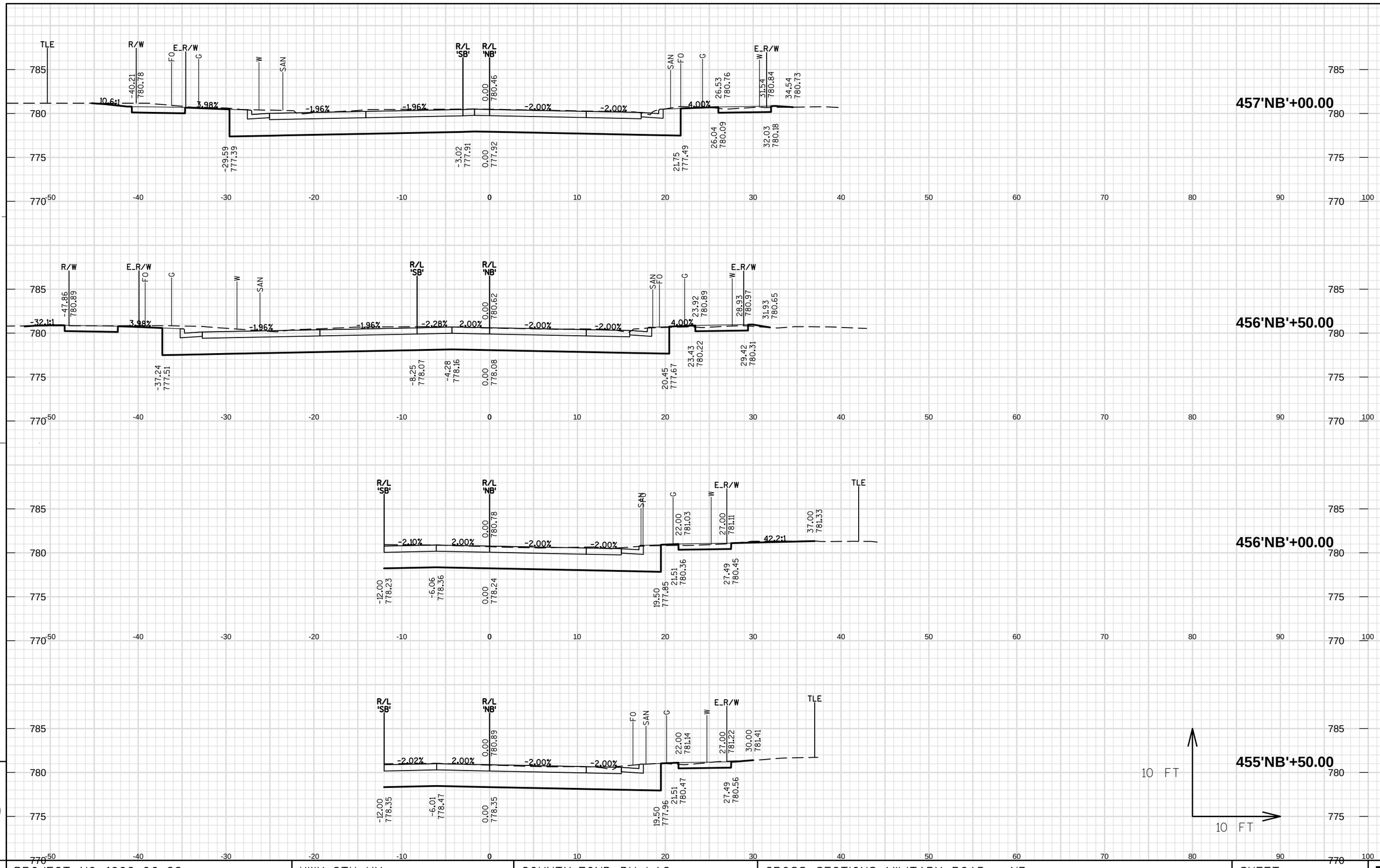
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - NB	SHEET: 456	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:21 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



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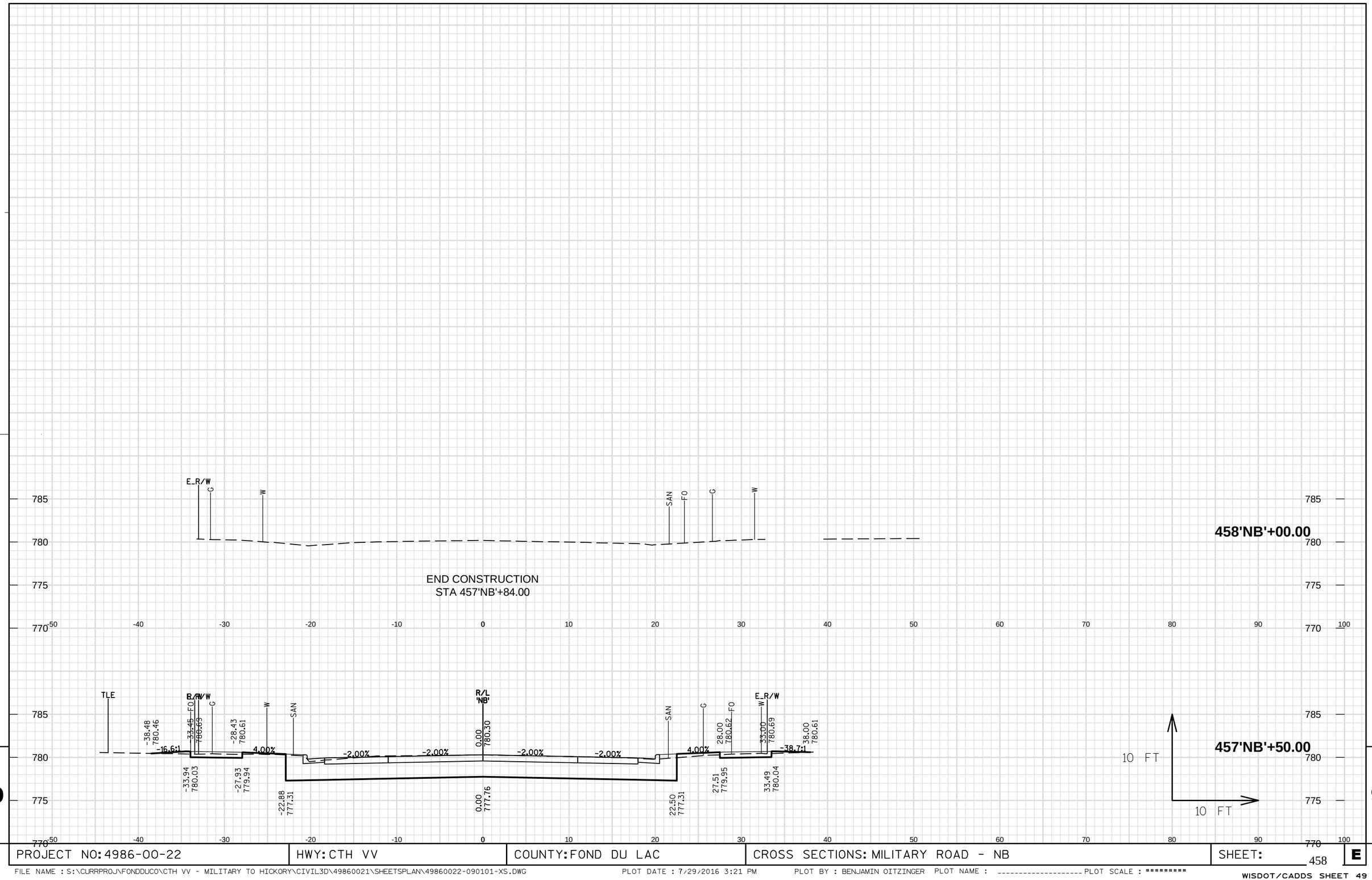
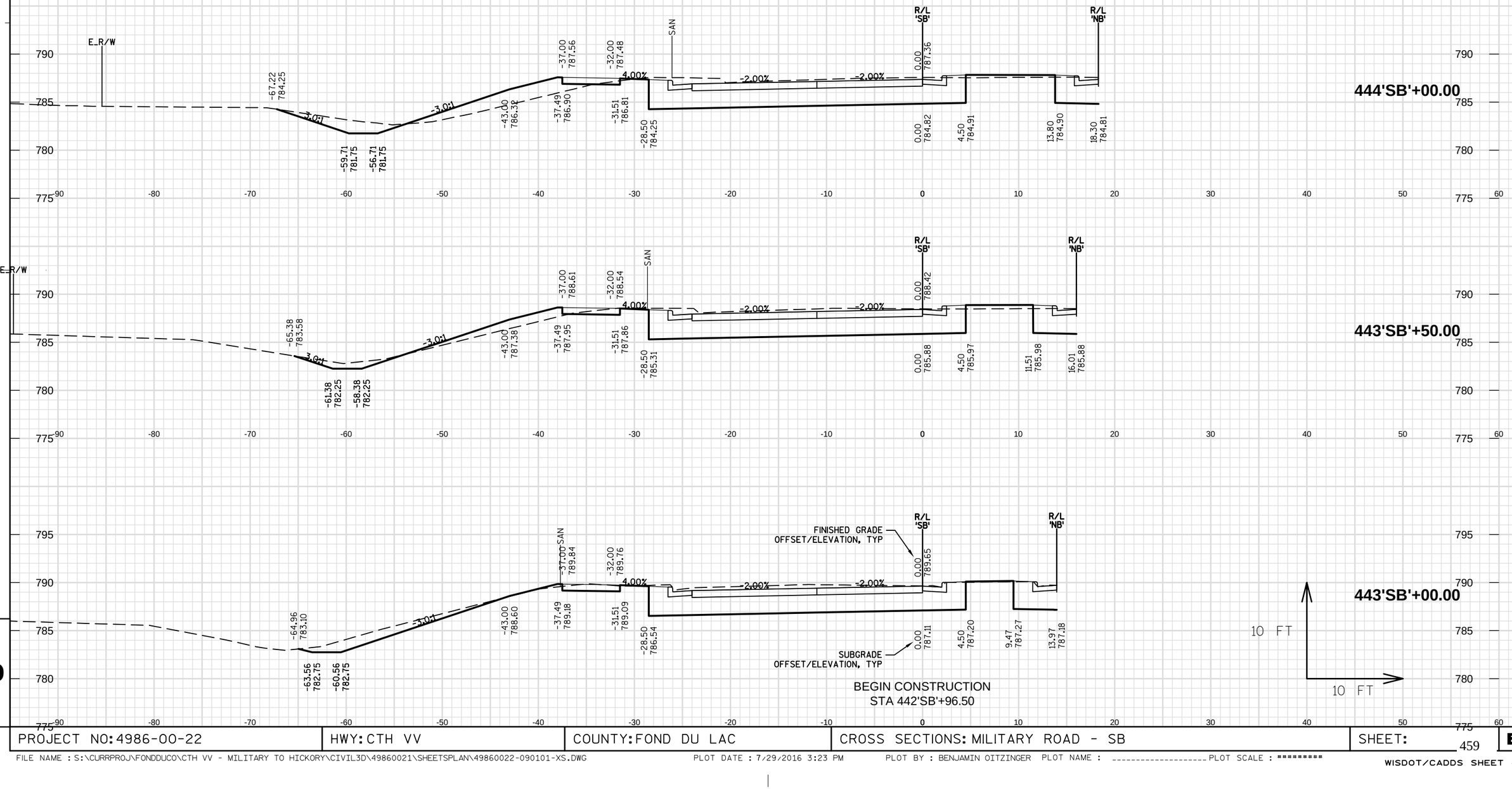
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - NB	SHEET: 457	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:21 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



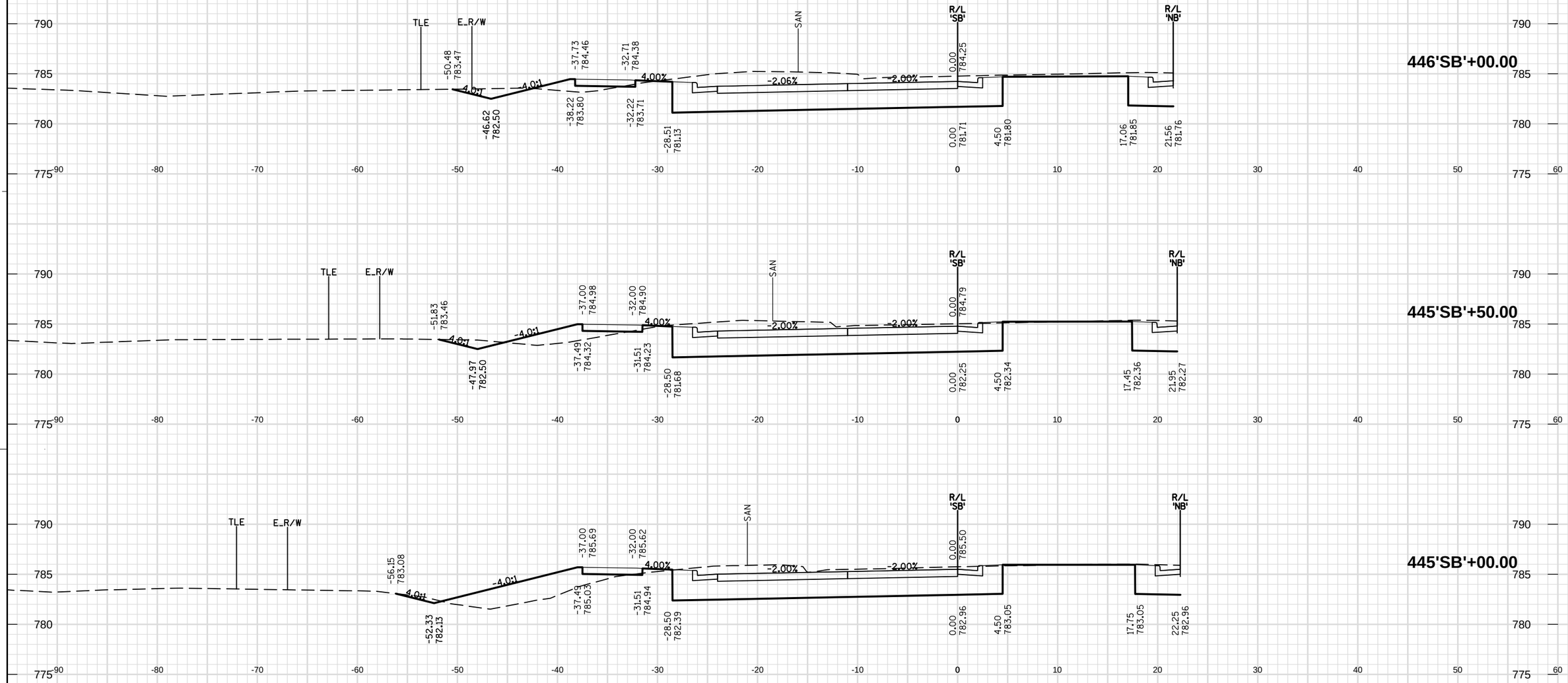
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - NB	SHEET: 458	E

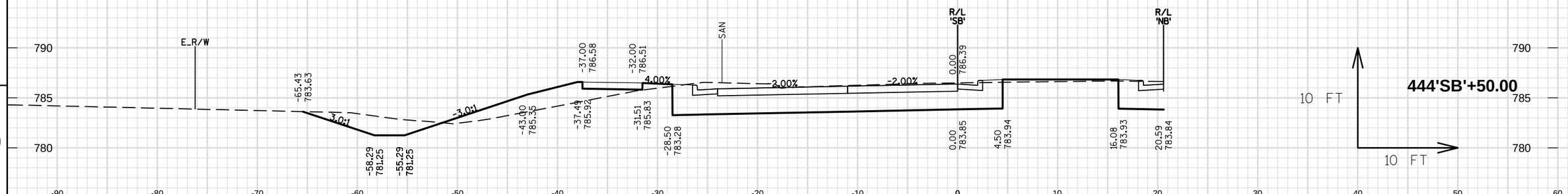


9	PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - SB	SHEET: 459 E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:23 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : _____ PLOT SCALE : *********

WISDOT/CADDS SHEET 49





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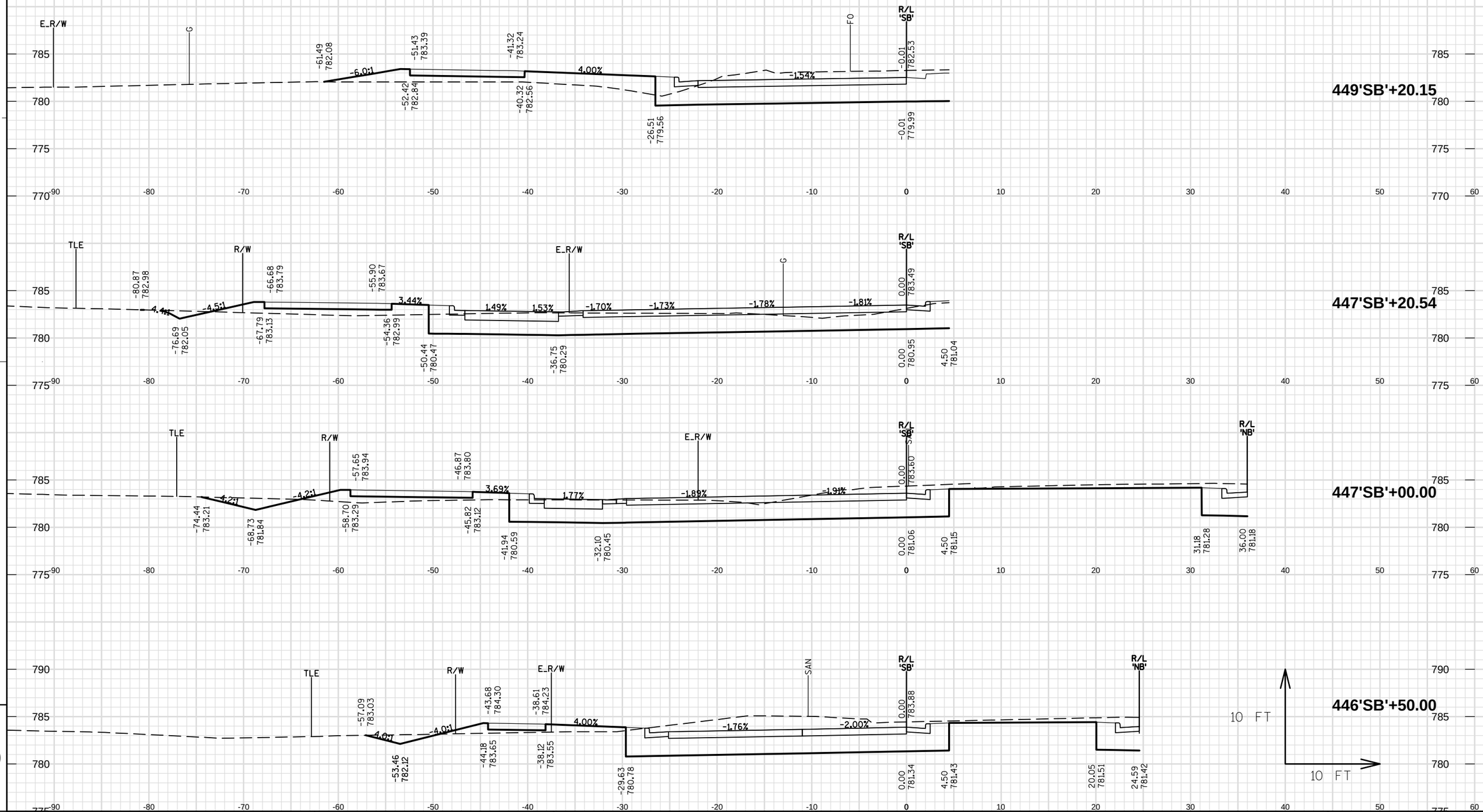
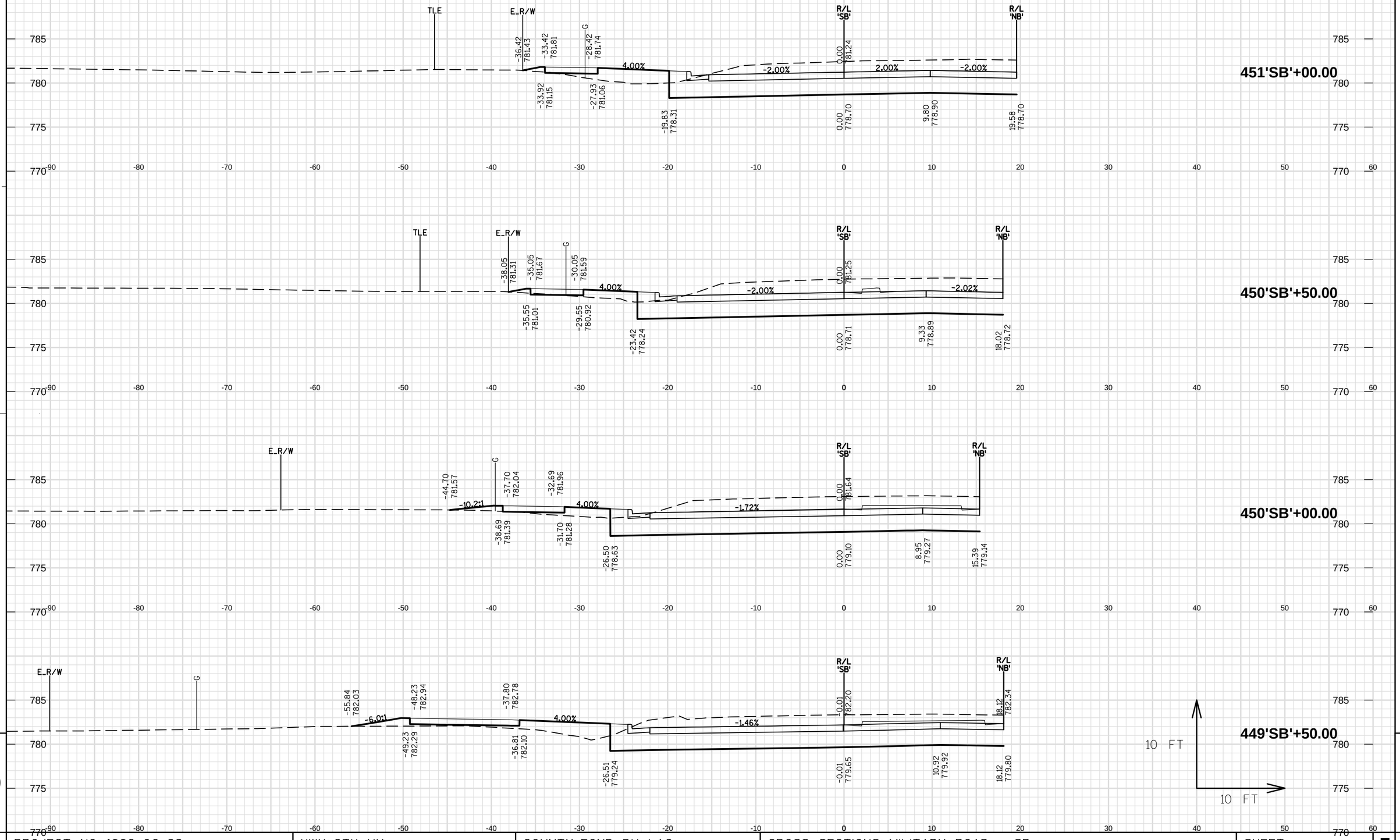
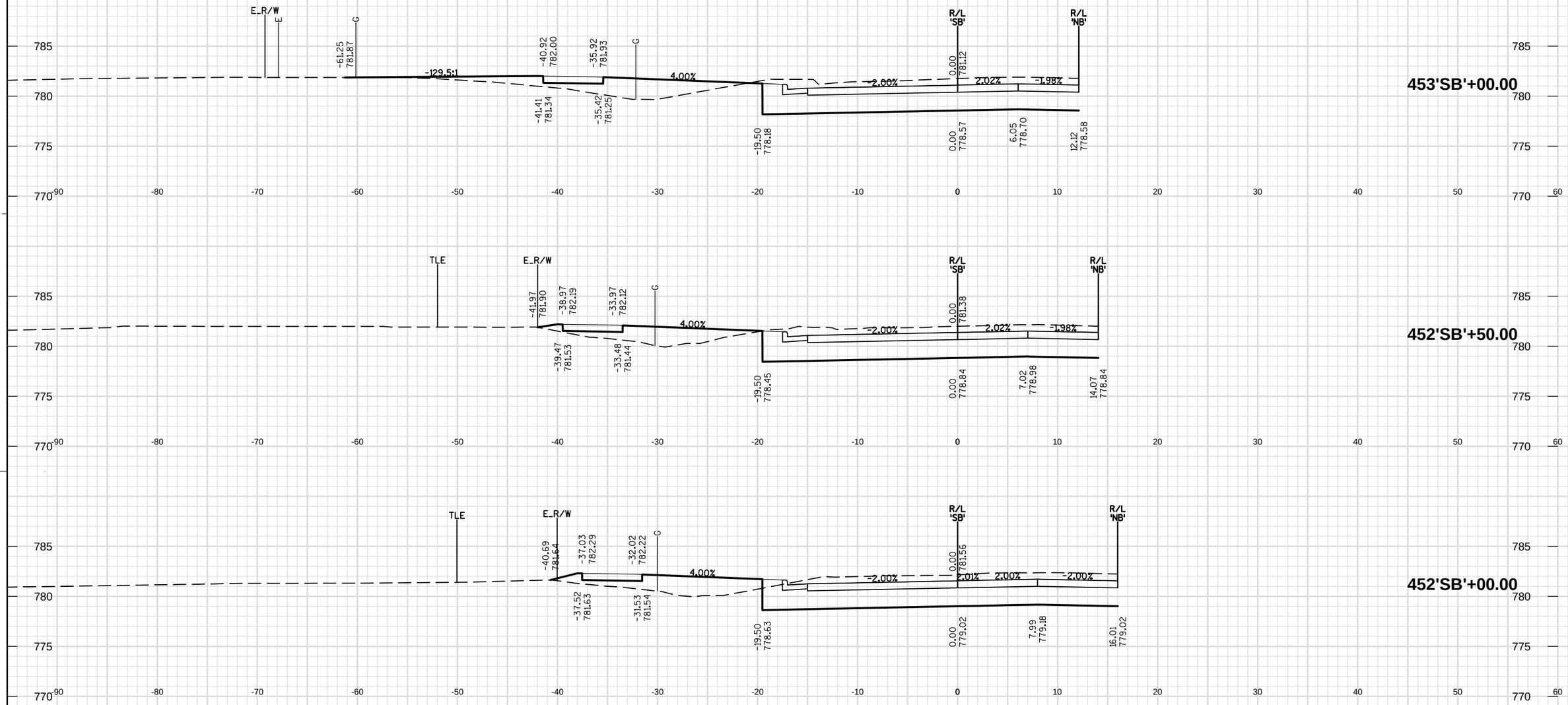
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - SB	SHEET: 460	E



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - SB	SHEET: 461 E



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - SB	SHEET: 462 E



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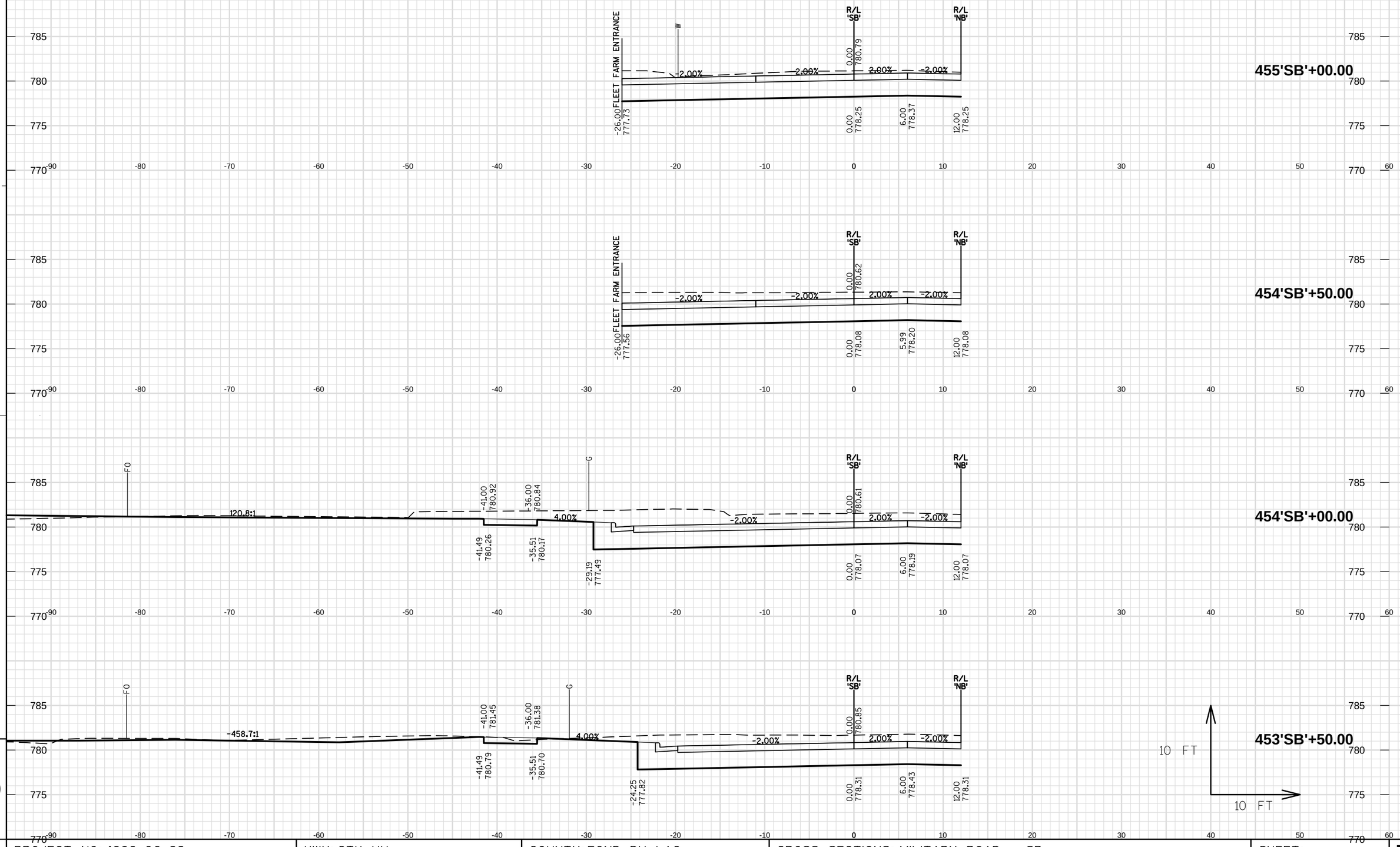
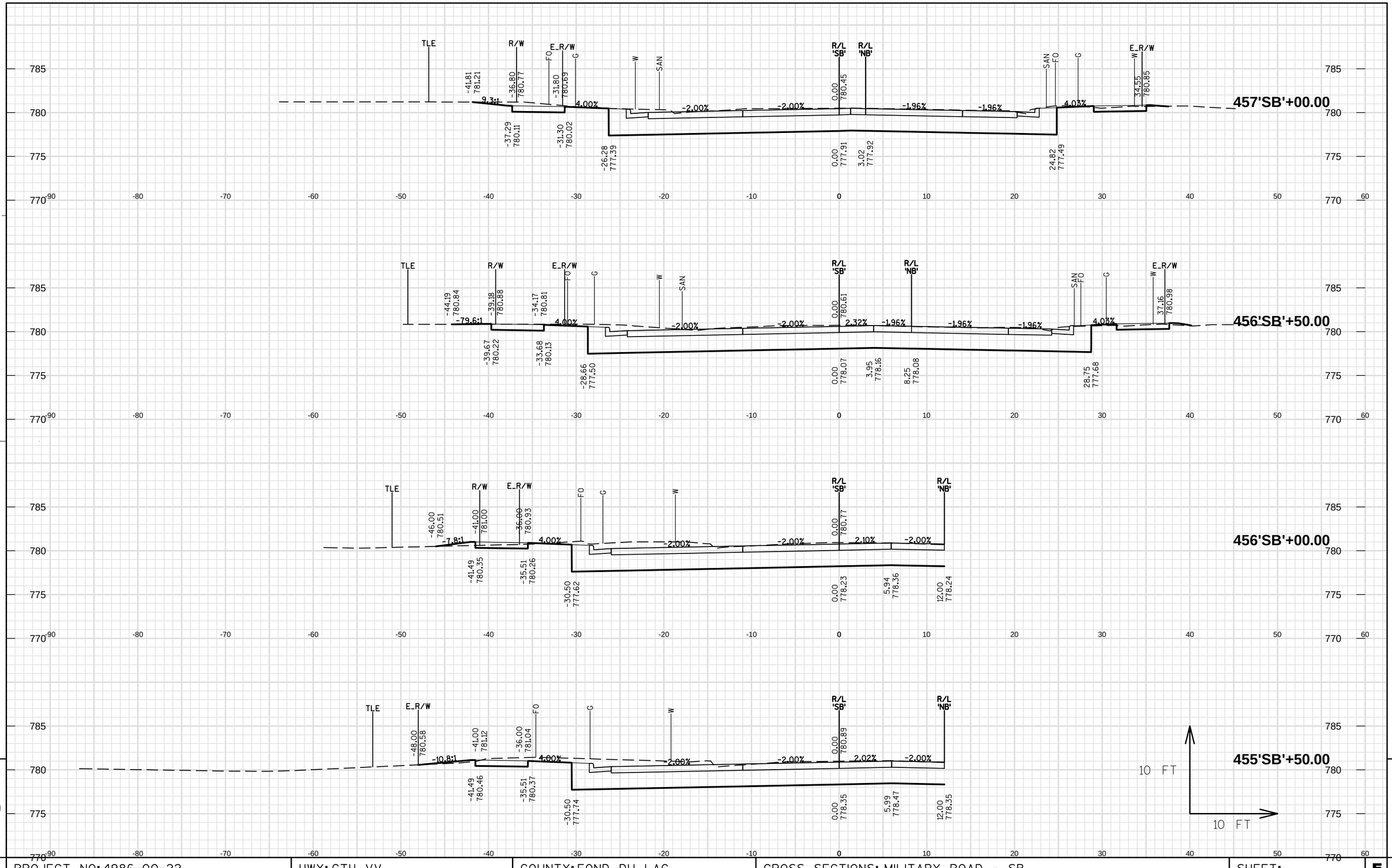
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - SB	SHEET: 463	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:23 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - SB	SHEET: 464 E



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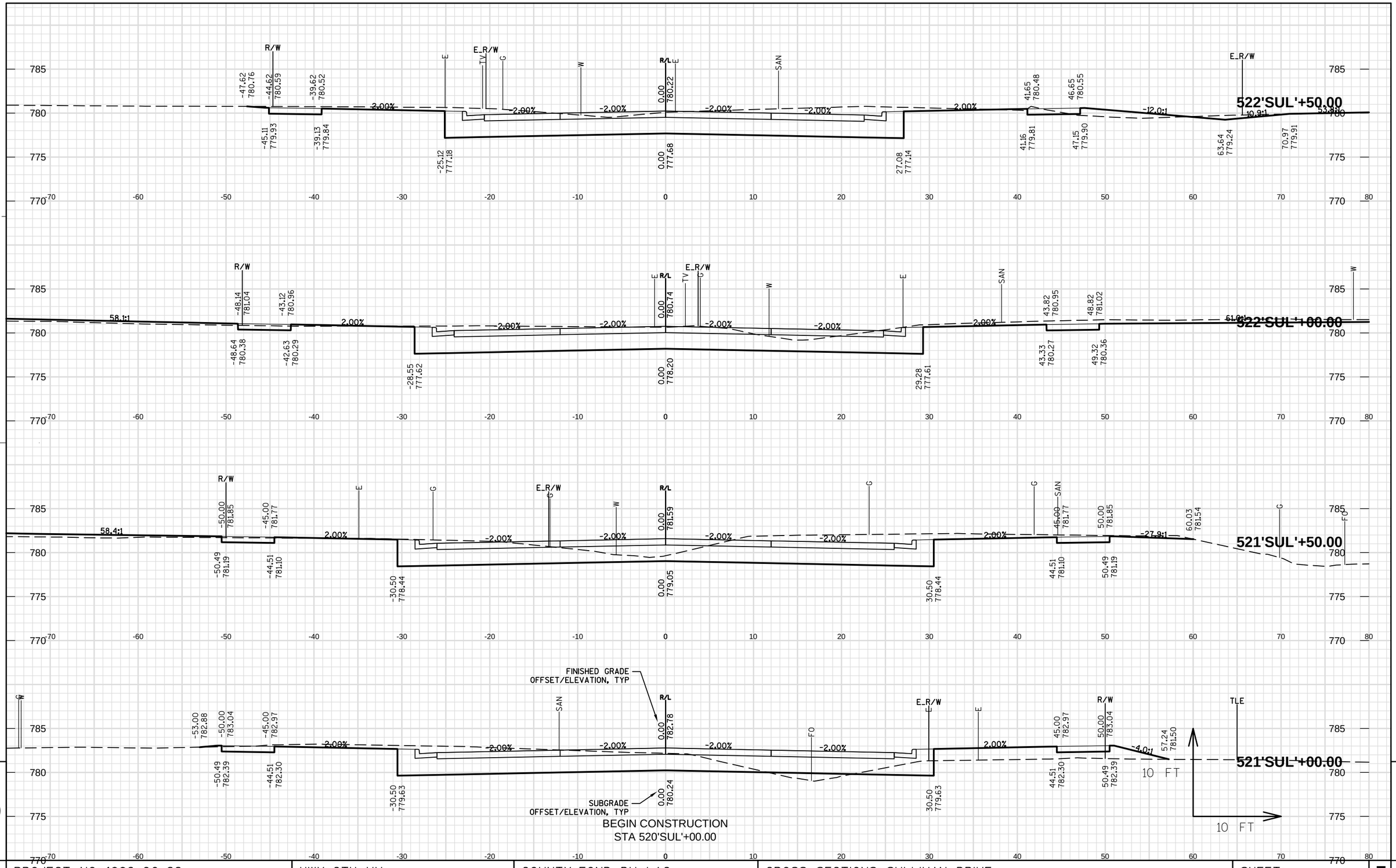
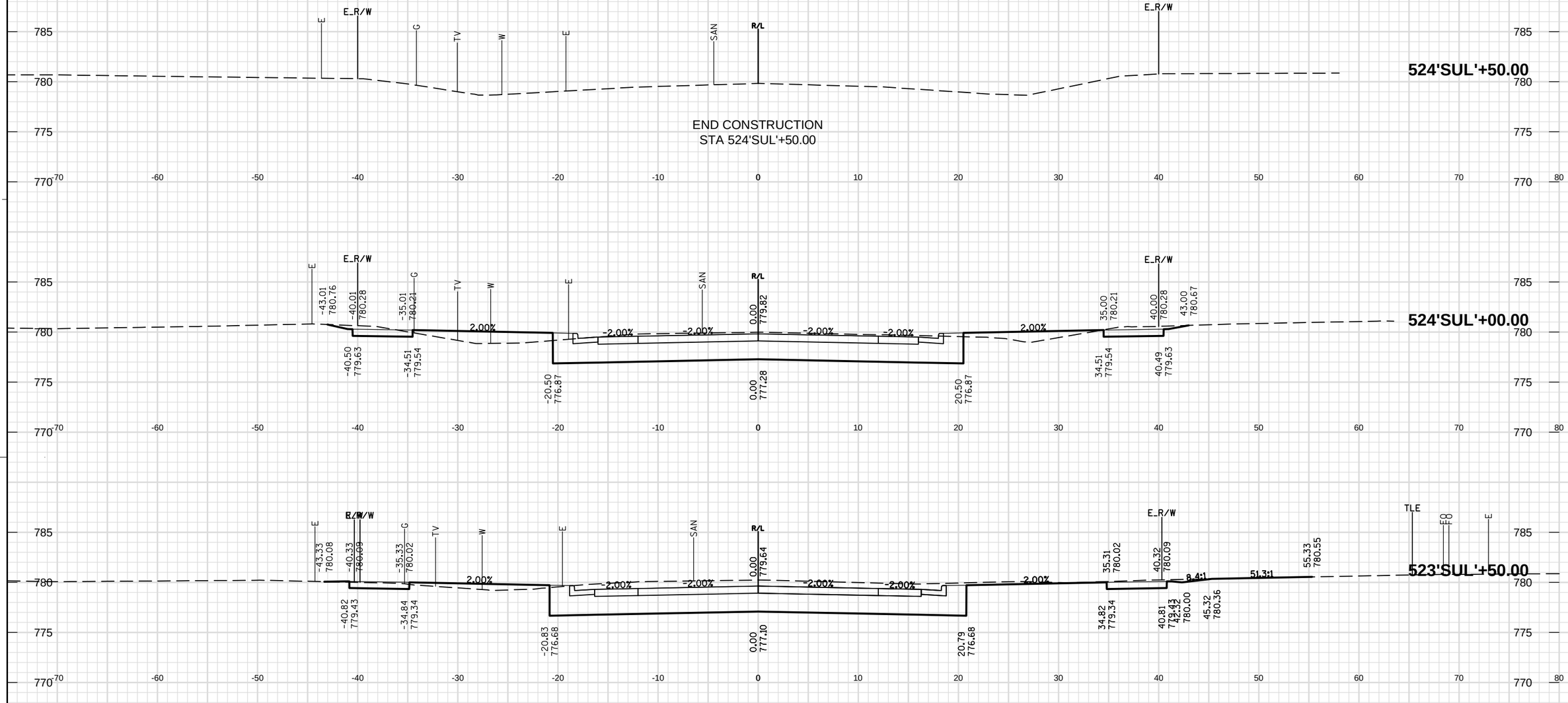
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MILITARY ROAD - SB	SHEET: 465	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:23 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: SULLIVAN DRIVE	SHEET: 466 E



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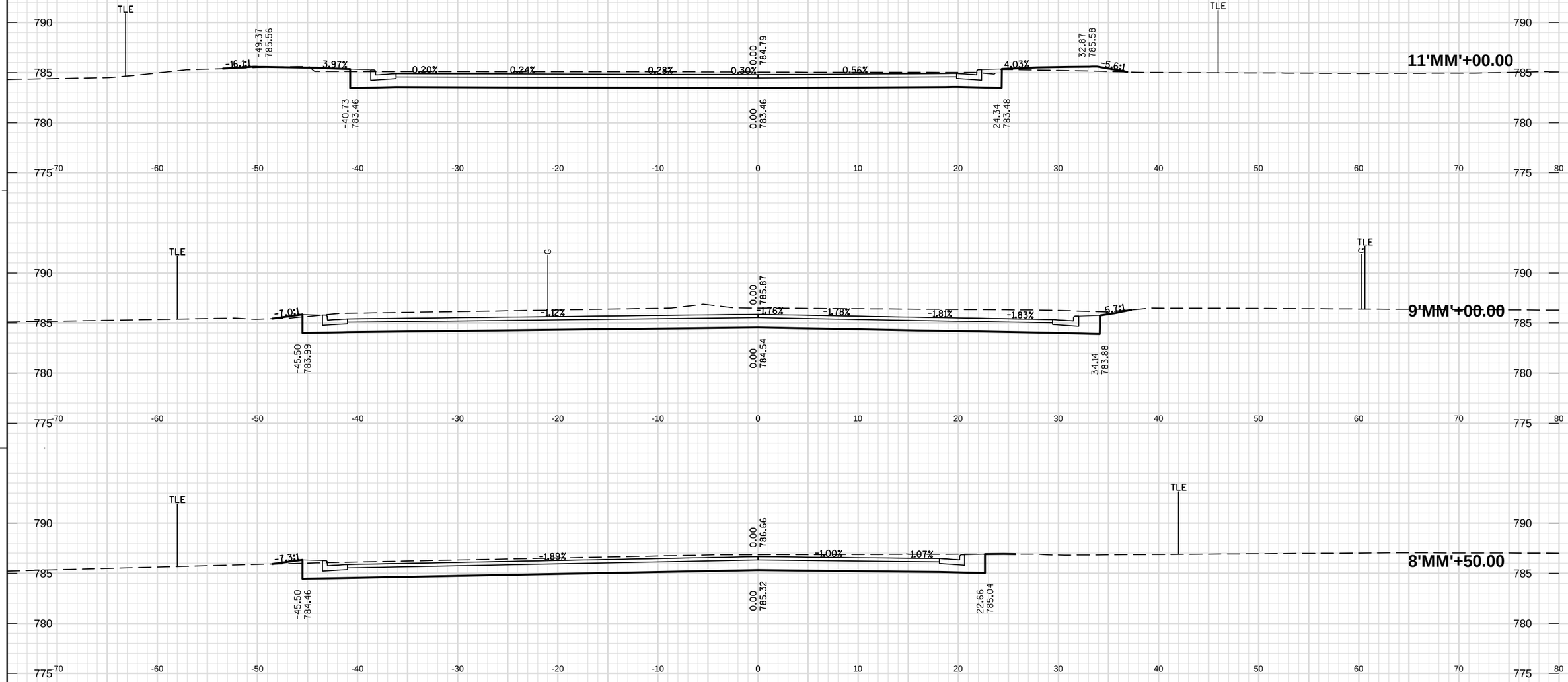
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: SULLIVAN DRIVE	SHEET: 467 E

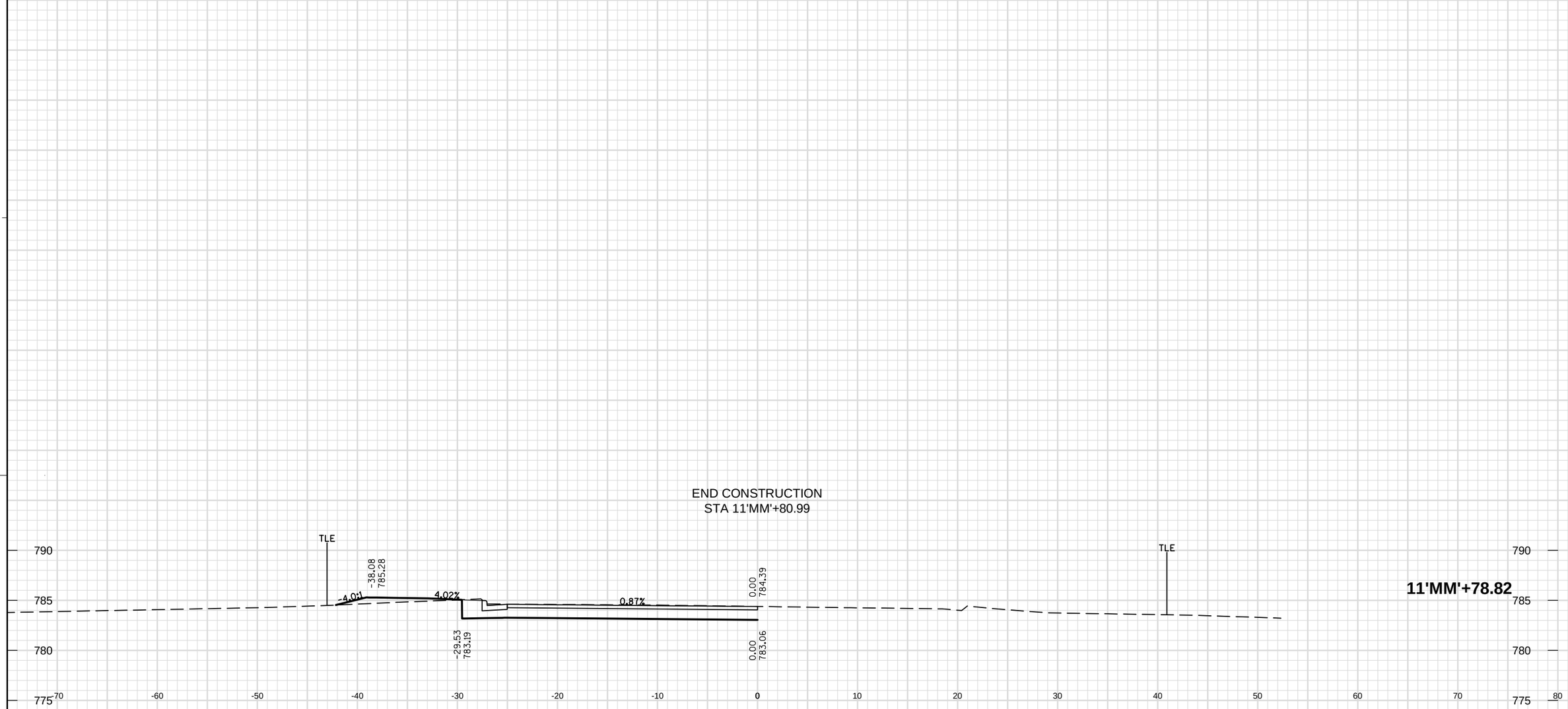
FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:24 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 49



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MERCURY MARINE ENTRANCE	SHEET: 468 E

END CONSTRUCTION
STA 11'MM'+80.99



11'MM'+78.82

11'MM'+50.00

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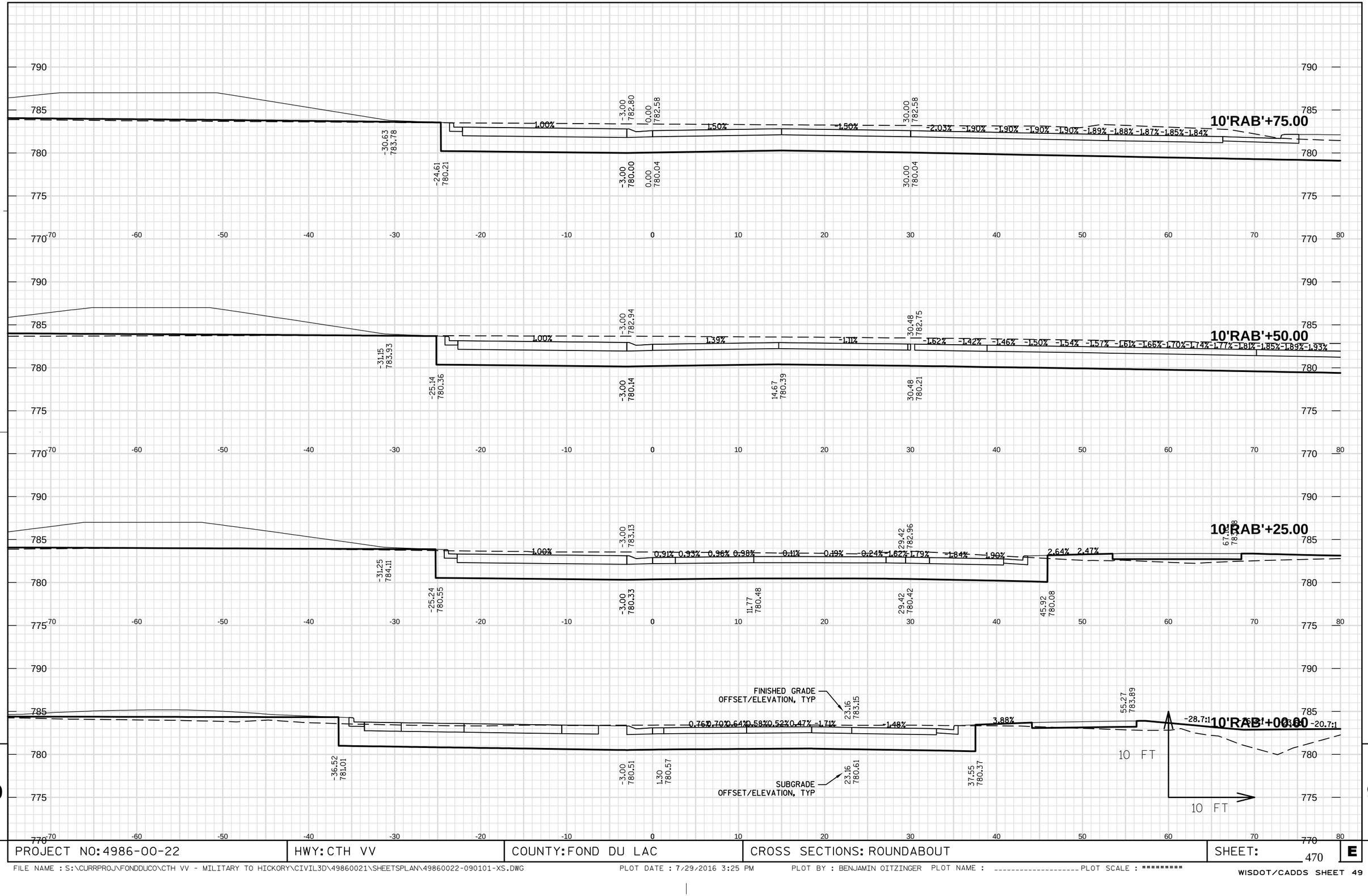
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: MERCURY MARINE ENTRANCE	SHEET: 469	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:25 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********
WISDOT/CADDS SHEET 49



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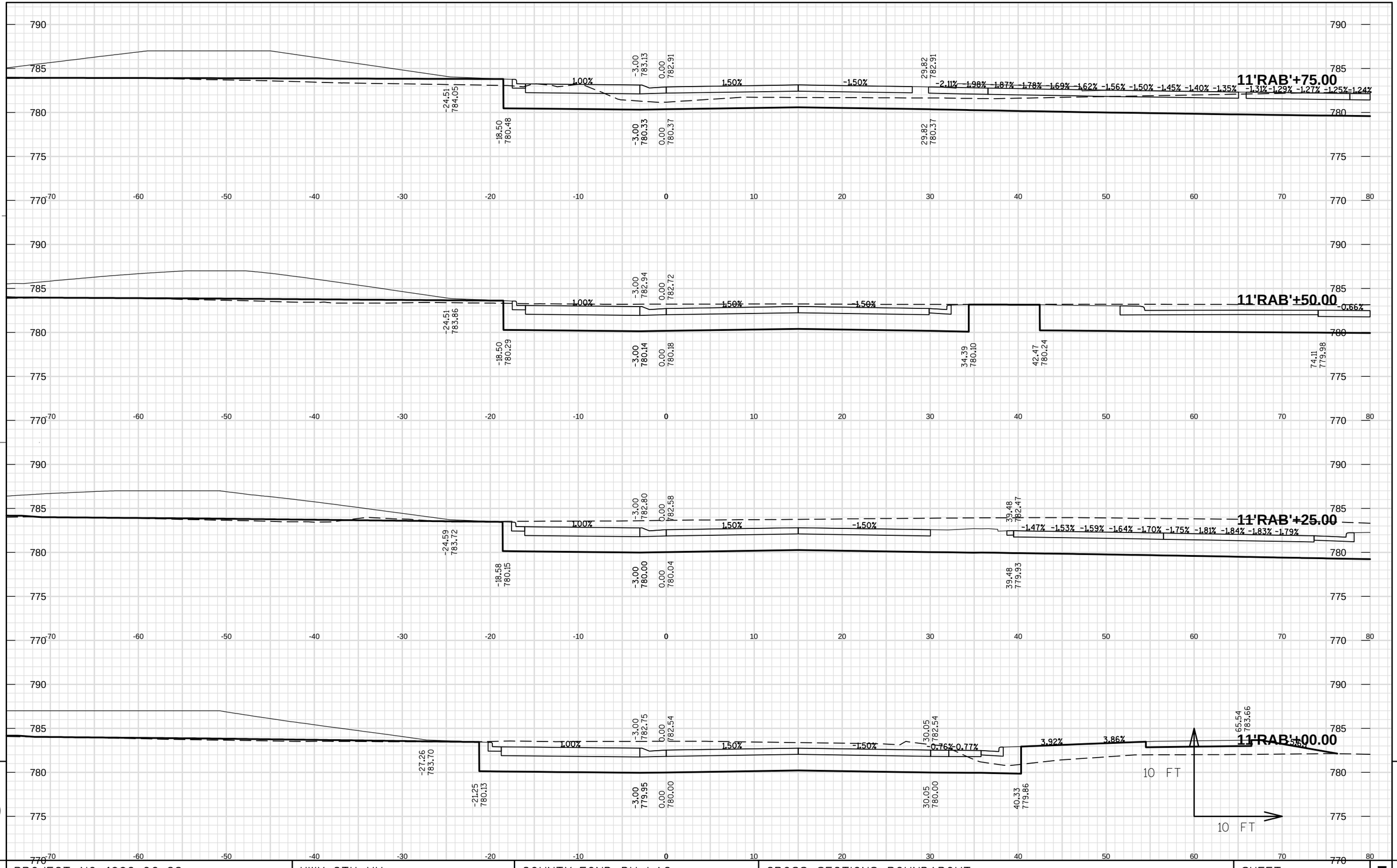
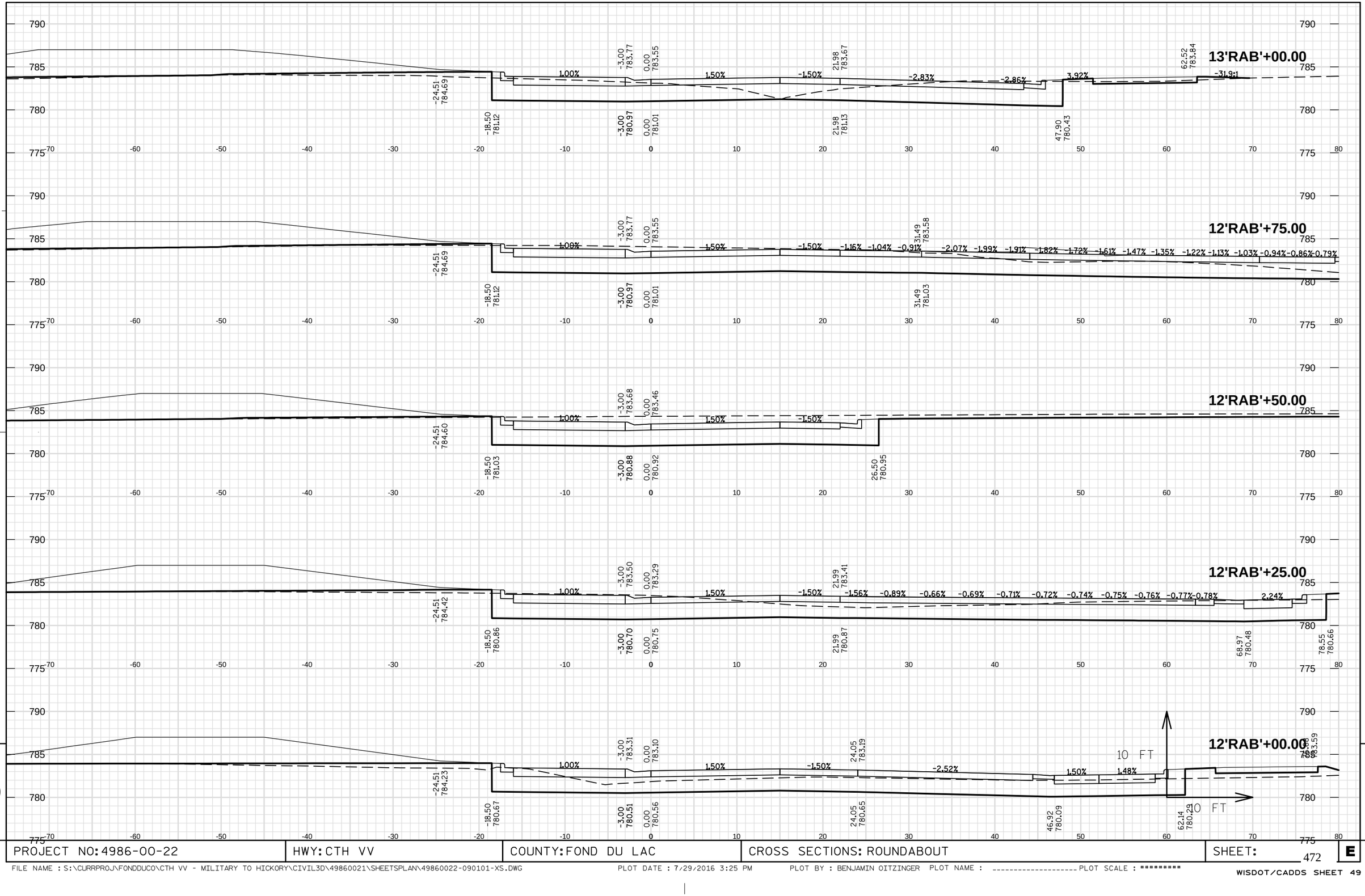
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: ROUNDABOUT	SHEET: 470	E

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:25 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : _____ PLOT SCALE : *********



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: ROUNDABOUT	SHEET:

FILE NAME : S:\CURRPROJ\FONDDUCO\CTH VV - MILITARY TO HICKORY\CIVIL3D\49860021\SHEETSPLAN\49860022-090101-XS.DWG PLOT DATE : 7/29/2016 3:25 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : ---------- PLOT SCALE : *********



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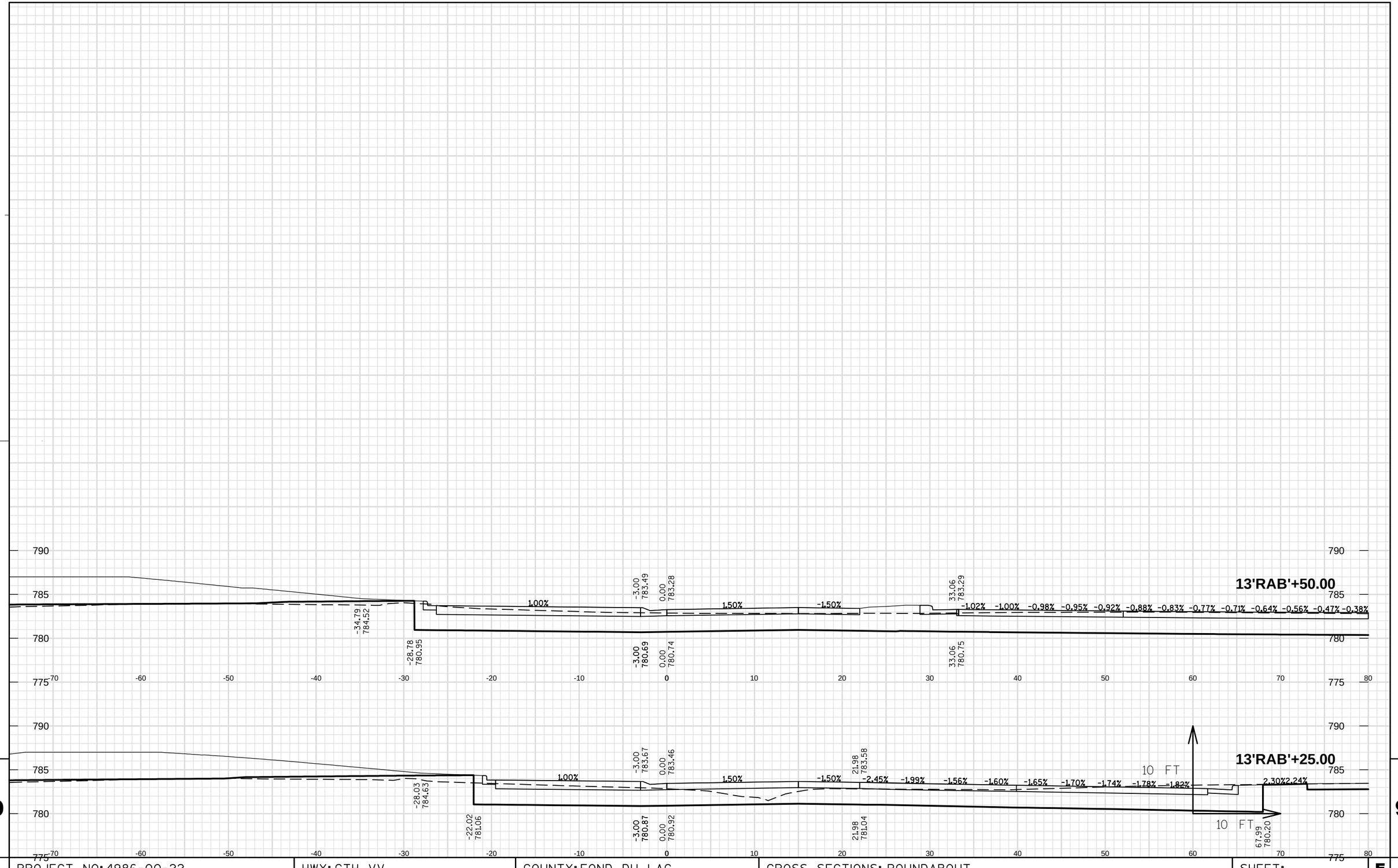
PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: ROUNDABOUT	SHEET: 472	E



PROJECT NO: 4986-00-22	HWY: CTH VV	COUNTY: FOND DU LAC	CROSS SECTIONS: ROUNDABOUT	SHEET: 473 E

Wisconsin Department of Transportation

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