GRE **DEC 2017** ORDER OF SHEETS (includes erosion control plans) Estimate of Quantities 0 9 995-00-64 Computer Earthwork Data Section No. TOTAL SHEETS = 210 DESIGN DESIGNATION 9995-00-64 A.A.D.T. (2018)= 3,200 = 3,600 A.A.D.T. (2038)D.H.V. = 450 D.D. = 59/41 = 3.3% DESIGN SPEED = 30 MPH ESALS = 430,000 CONVENTIONAL SYMBOLS PROFILE CORPORATE LIMITS GRADE LINE ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT GAS (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE WATER MARSH AREA UTILITY PEDESTAL POWER POLE

WOODED OR SHRUB AREA

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

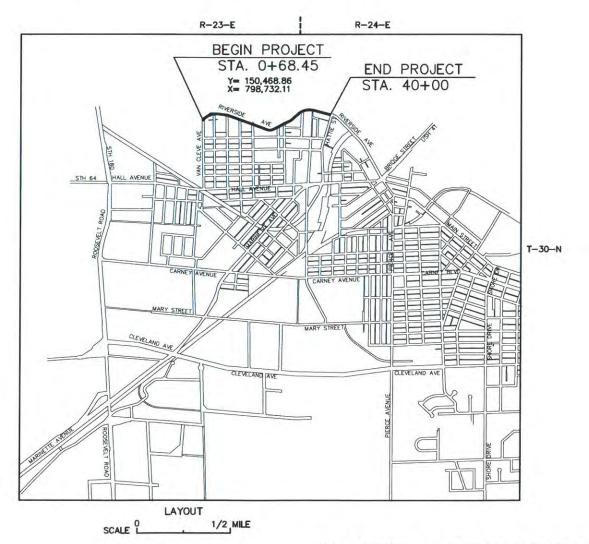
## C MARINETTE, RIVERSIDE AVE

**HATTIE ST - VANCLEVE AVE** 

## **LOCAL STREET**

MARINETTE COUNTY

STATE PROJECT NUMBER
9995-00-64



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY
TOTAL NET LENGTH OF CENTERLINE = 0.745 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY
COORDINATES, MARINETTE COUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES
ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES
MAY BE USED AS GROUND DISTANCES. ALL ELEVATIONS ON THE PLAN ARE
REFERENCED TO THE CITY OF MARINETTE VERTICAL DATUM.

PLOT DATE : 7/6/2017 2:25 PM PLOT BY : MATT RASTALL PLOT

 FEDERAL PROJECT

 PROJECT
 CONTRACT

 9995-00-64
 WISC 2018019
 1

ACCEPTED FOR CITY
OF MARINETTE

7-24-17 R. Meller City Engineer (Signature & Title of Office)

ORIGINAL PLANS PREPARED BY

THE CITY OF MARINETTE ENGINEERING DEPARTMENT



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

CITY OF MARINETTE
CITY OF MARINETTE

Management Consultant of Distriction, Inc.

APPROVED FOR THE DEPARTMENT

(Management Consultant Signature)

TELEPHONE POLE

#### **LEGEND** UTILITIES WITHIN PROJECT AREA

CONTROL POINT STREET SIGN EXISTING WATER VALVE PROPOSED WATER VALVE EXISTING CATCH BASIN PROPOSED CATCH BASIN EXISTING MANHOLE PROPOSED MANHOLE EXISTING TREE EXISTING BUSH

PROPOSED STORM SEWER (LABELED) PROPOSED SANITARY SEWER (LABELED) PROPOSED WATERMAIN (LABELED) PROPOSED CURB & GUTTER NEW CONCRETE SIDEWALK AND DRIVEWAY

NEW ASPHALT DRIVEWAY EXISTING HYDRANT PROPOSED HYDRANT PROPERTY FENCE SILT FENCE PROPERTY LINE SAWCUT

> DITCH EXISTING WATER CURB BOX PROPOSED WATER CURB BOX

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

WISCONSIN PUBLIC SERVICE S 54301 2850 ASHLAND AVE. GREEN BAY, WI. 54304 TEL. 920-617-2775 ROBERT LASKOWSKI EMAIL: rlaskowski@wisconsinpublicservice.com

CHARTER COMMUNICATIONS 3520 E. DESTINATION DR. APPLETON WI. 65915 TEL. (920) 831-9249 FMAIL: vince.albin@charter.com

AMERICAN TRANSMISSION COMPANY (ELECTRIC) 801 O'KEÉFE ROAD DEPERE, WI 54115-6113 TEL. (920) 338-6582 MICHÀEL ÓLSEN EMAIL: molsen@atclic.com

MARINETTE WATER & SEWER 501 WATER STREET MARINETTE, WI. 54143 TEL. (715) 732-5180 WARRÈN HOWARD EMAIL: whoward@marinette.wi.us

CENTURYLINK 1727 STEPHENSON STREET MARINETTE, W. 54143 TEL. (715) 735-0059 PETE JOHNSON EMAIL: peter.s. johnson@centurylink.com

#### DNR LIAISION

WISCONSIN DEPARTMENT OF NATURAL RESOURCES 2984 SHAWANO AVENUE P.O. BOX 10448 GREEN BAY, WISCONSIN, 54307-0448 ATTN. JIM DOPERALSKI JR. PHONE: 920-412-0165 EMAIL: james.doperalski@wisconsin.gov

#### GENERAL NOTES

- 1) THE LOCATION OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL INSPECT THE PROJECT SITE AND PLAN CONSTRUCTION ACCORDINGLY. NO EXTRA COMPENSATION WILL BE PAID TO CONTRACTOR FOR WORKING AROUND UNDERGROUND UTILITIES.
- 2) THE ENGINEER SHALL FURNISH HORIZONTAL ALIGNMENT CONTROL POINTS AND VERTICAL CONTROL.
- 3) "ARC DEFINITION CURVE DATA IS SHOWN ON THE PLANS.
- 4) CURB RADII ARE SHOWN TO THE BACK OF THE CURB.
- 5) CURB AND GUTTER ELEVATIONS ARE ALONG THE FLANGE LINE UNLESS OTHERWISE NOTED.
- 6) NO TREES OR SHRUBS WILL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
- THE EXACT LOCATION AND WIDTH OF PRIVATE DRIVEWAYS AND COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY ENGINEER IN THE FIELD.
- 8) THE EXACT LOCATION AND WIDTH OF TEMPORARY ACCESS FOR DRIVEWAYS SHALL BE DETERMINED BY
- 9) EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL RADIUS POINTS IN THE CURB AND GUTTER.
- 10) THE EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED ENGINEER IN THE FIELD.
- 11) SAWCUTTING CONCRETE PAVEMENT SHALL BE DONE AT CONSTRUCTION JOINTS OR AT MID PANEL INSTEAD OF LEAVING A SLIVER OF CONCRETE.
- 12) DRIVEWAYS SHALL BE REPLACED IN KIND. BASE AGGREGATE DENSE SHALL BE USED UNDER ALL DRIVEWAYS.
- 13) AFTER CONSTRUCTION OF ANY INLET, CONTRACTOR SHALL CONSTRUCT THE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS TO MINIMIZE SEDIMENTATION IN THE INLET AND STORM SEWER.
- 14) ALL MANHOLE AND INLET OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
- 15) THE COST OF CONNECTING EXISTING STORM SEWERS OR DRAINAGE STRUCTURES TO THE NEW STORM SEWER SHALL BE INCIDENTAL TO THE COST OF THE STORM SEWER PIPE.
- 16) FINAL SAWCUTTING LIMITS ON STREETS AND DRIVEWAYS WILL BE DETERMINED BY THE
- 17) ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE CITY OF MARINETTE DATUM. 0.00 CITY DATUM= 482.17 NGVD
- 18) IF CONCRETE MESH IS FOUND IN THE EXISTING PAVEMENT, THE REMOVAL OF THE MESH IS INCIDENTAL TO REMOVING

## RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 7.13 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 6.60 ACRES

#### STANDARD ABBREVIATIONS

BM(*)	ASPHALT BENCHMARK CURB AND GUTTER	0.C.	NOT TO SCALE ON CENTER PRIVATE ENTRANCE
	CRUSHED AGGREGATE BASE COURSE		PERMANENT LIMITED EASEMENT
	COMMERCIAL ENTRANCE	P.L.E.	PROPERTY LINE
	CENTERLINE		PROPOSED
	CLASS	R	RADIUS
		* *	
	CONCRETE	,	REFERENCE LINE
	CORRUGATED METAL CULVERT PIPE	RCCP	REINFORCED CONCRETE CULVERT PIPE
- (11)	CONTROL POINT	REQ'D	REQUIRED
CP	CULVERT PIPE	RHF	RIGHT HAND FORWARD
C.Y.	CUBIC YARDS	RT	RIGHT
DW	DRIVEWAY	R/W	RIGHT OF WAY
E.O.R.	END OF RADIUS	SB	SOUTHBOUND
EB	EASTBOUND	SBRL	SOUTHBOUND REFERENCE LINE
	ELEVATION	SE	SUPERELEVATION
	EXISTING	SF	SQUARE FOOT
EXC.	EXCAVATION	SQ. FT.	SQUARE FOOT
FE	FIELD ENTRANCE	SY	SQUARE YARD
F.L.	FLOWLINE	(TYP.)	TYPICAL
HERCP	HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE	T.L.E.	TEMPORARY LIMITED EASEMENT
LF	LINEAL FOOT	VAR.	VARIES
LT	LEFT	WB	WESTBOUND
мн	MANHOLE	W/L	WETLAND
MIN.	MINIMUM	, =	

PROJECT NO:9995-00-64

NORTHBOUND

NORMAL

NORTHBOUND REFERENCE LINE

ASPH.

**NBRL** NOR.

HWY: RIVERSIDE AVENUE

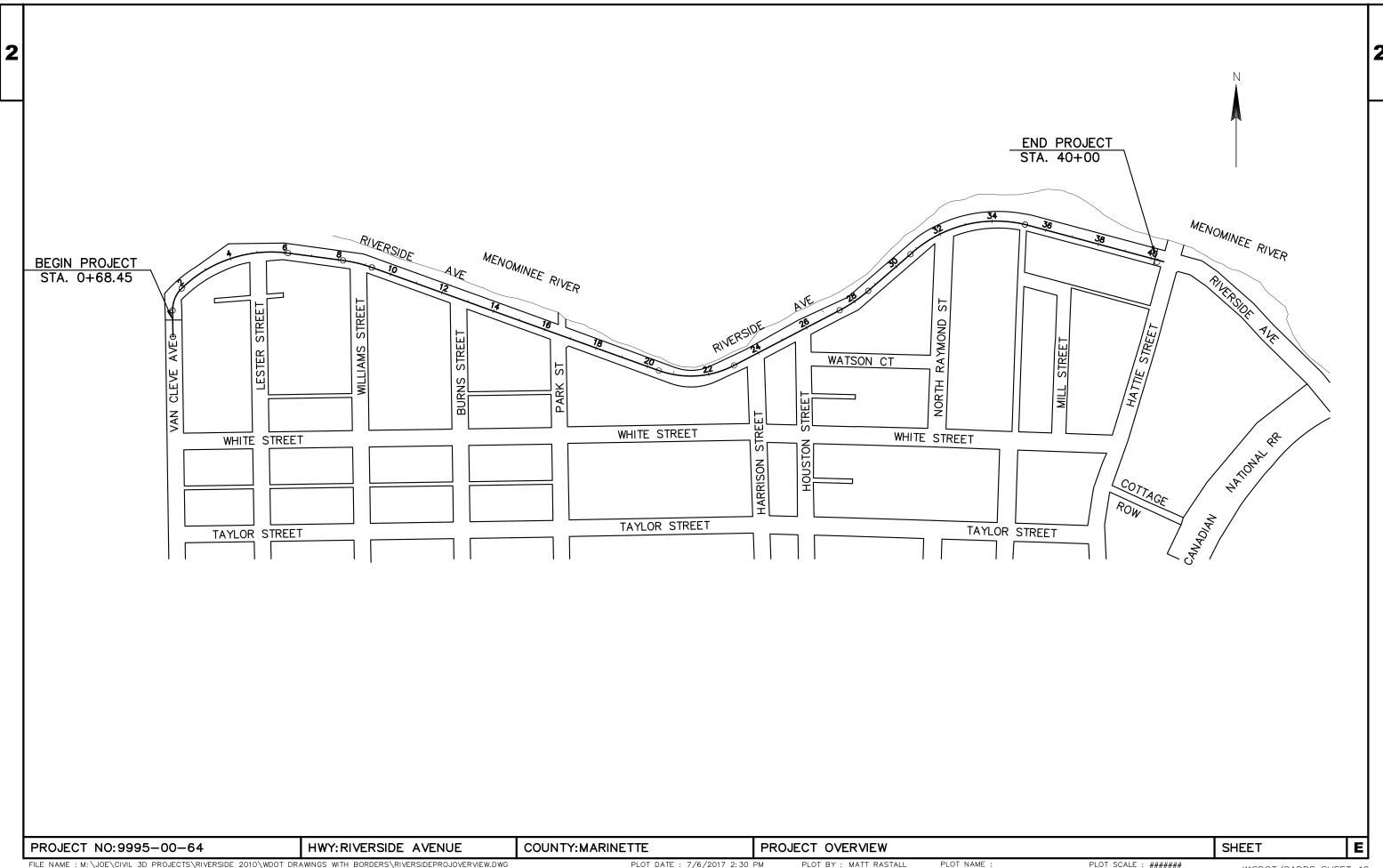
**COUNTY: MARINETTE** 

**GENERAL NOTES** 

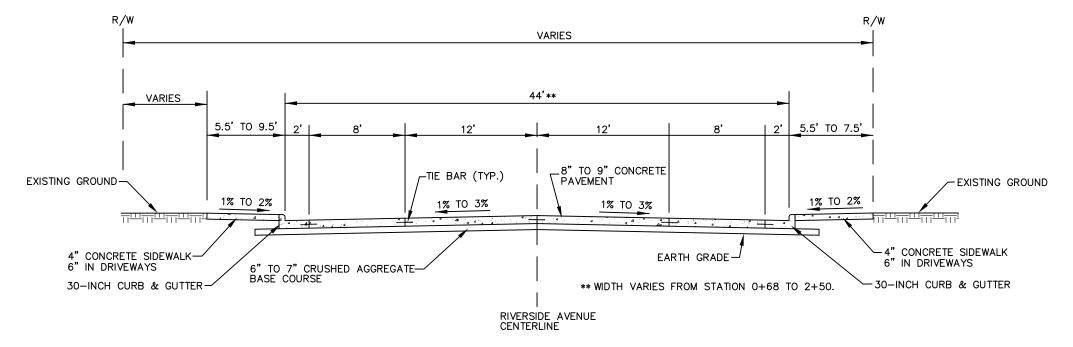
PLOT NAME

SHEET PLOT SCALE : ######

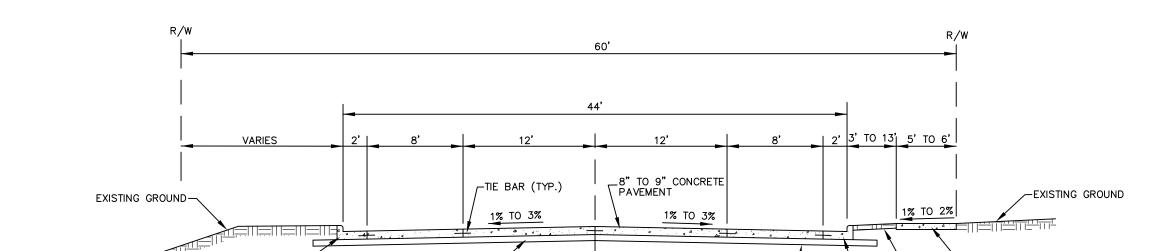
E







## EXISTING TYPICAL SECTION RIVERSIDE AVENUE STATION 0+68 - STATION 5+00



## EXISTING TYPICAL SECTION RIVERSIDE AVENUE

STATION 5+00 - STATION 40+00

RIVERSIDE AVENUE CENTERLINE

PROJECT NO:9995-00-64 HWY: RIVERSIDE AVENUE SHEET E COUNTY: MARINETTE TYPICAL SECTIONS PLOT SCALE : ###### PLOT BY : MATT RASTALL

30-INCH CURB & GUTTER-

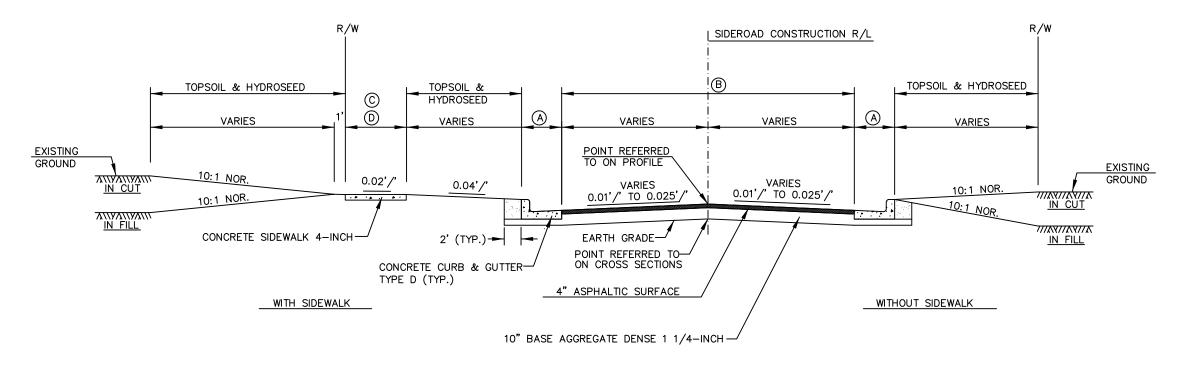
6" TO 7" CRUSHED AGGREGATE-BASE COURSE

EARTH GRADE-

-4" CONCRETE SIDEWALK 6" IN DRIVEWAYS

-EXISTING TERRACE AREA

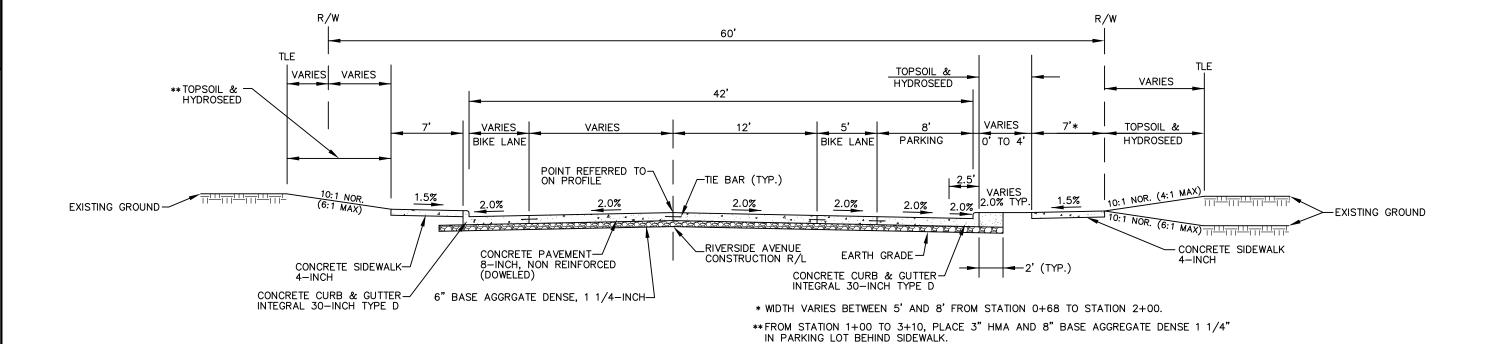
└─30-INCH CURB & GUTTER



## TYPICAL FINISHED SECTION: SIDE ROADS

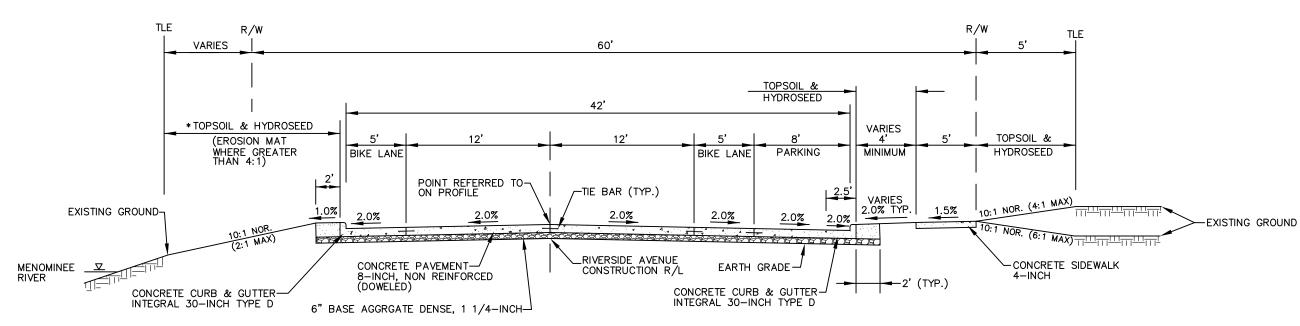
SIDEROAD	(A) CURB & GUTTER WIDTH (IN.)	B ROADWAY WIDTH (FT.)	© LT. SIDEWALK WIDTH (FT.)	D RT. SIDEWALK WIDTH (FT.)
LESTER STREET	30	32	_	_
WILLIAMS STREET	30	32	_	_
BURNS STREET	30	32	-	_
PARK STREET	30	32	5	5
HARRISON STREET	30	32	6	5
HOUSTON STREET	24	34	_	_
NORTH RAYMOND STREET	30	35	6	6
STATE STREET	*30	14	-	-

<sup>\*</sup> CONCRETE CURB & GUTTER 4- INCH SLOPED 30-INCH TYPE TBT



#### TYPICAL FINISHED SECTION RIVERSIDE AVENUE

STATION 0+68 - STATION 5+00



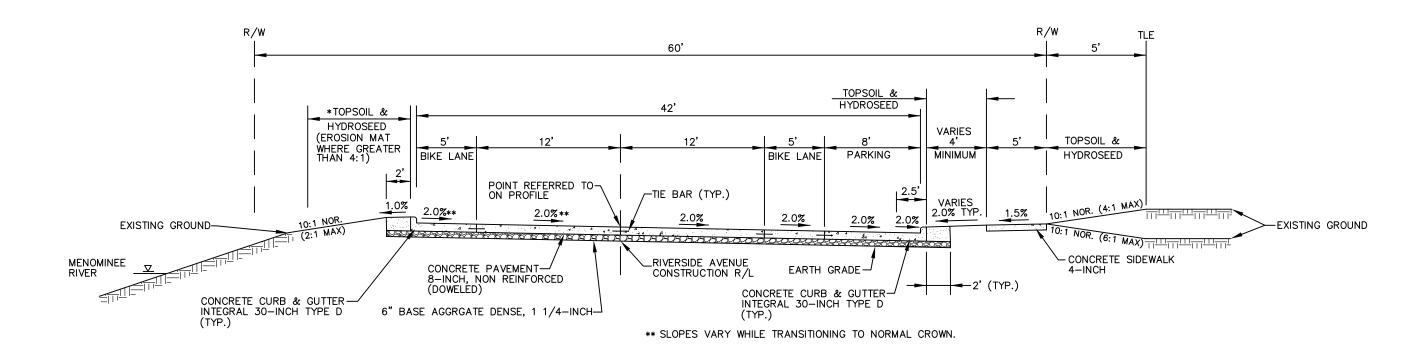
\* RIP RAP FROM STATION 18+35 TO STATION 31+00. (SEE EROSION CONTROL PLAN)

#### TYPICAL FINISHED SECTION RIVERSIDE AVENUE

STATION 5+00 - STATION 30+00 STATION 37+00 - STATION 40+00

PROJECT NO:9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE E TYPICAL SECTIONS SHEET

PLOT NAME



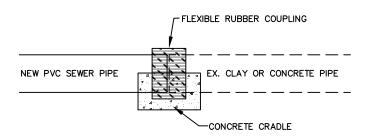
\* RIP RAP FROM STATION 30+00 TO STATION 31+00. (SEE EROSION CONTROL PLAN)

TYPICAL FINISHED SECTION RIVERSIDE AVENUE STATION 30+00 - STATION 37+00

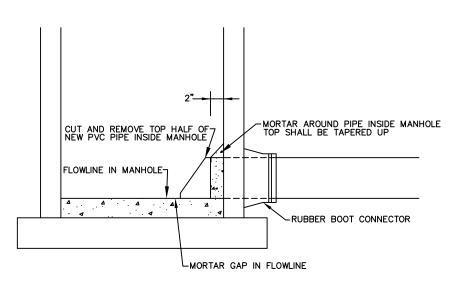
PROJECT NO:9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE TYPICAL SECTIONS SHEET E

PLOT NAME :

## SEWER PIPE CONNECTION DETAIL CONNECTION TO PVC PIPE



## SEWER PIPE CONNECTION DETAIL CONNECTION TO CMP, CONCRETE OR CLAY PIPE



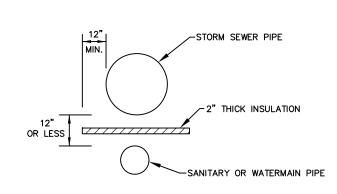
SANITARY MANHOLE DETAIL NEW SANITARY PIPE ENTERING MANHOLE

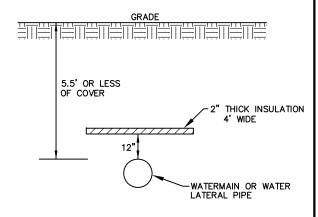
GENERAL UTILITY NOTES

- 1) TAPPING SANITARY MANHOLES WILL BE INCIDENTAL TO PLACING THE SANITARY SEWER PIPE.
- 2) THE CONTRACTOR SHALL CONTACT DNR PRIVATE WATER SUPPLY SECTION FOR A PERMIT FOR ALL DEWATERING WELLS INSTALLED FOR WHICH SINGLE OR AGGREGATE CAPACITY MAY BE IN EXCESS OF 70 GALLONS PER MINUTE. WELL PERMITS MAY BE OBTAINED BY APPLYING AT THE FOLLOWING OFFICE: DEPARTMENT OF NATURAL RESOURCES PRIVATE WATER SUPPLY SECTION BOX 7921

MADISON, WI. 53707

- 3) THE CONTRACTOR SHALL COORDINATE WITH THE WATER DEPARTMENT FOR WATERMAIN SERVICE CLOSURES. THE CONTRACTOR SHALL NOTIFY THE WATER UTILITY A MINIMUM OF 24 HOURS PRIOR TO TURNING OFF THE WATER (SEE SPECIAL PROVISIONS).
- 4) THE CONTRACTOR WILL BULKHEAD ALL ABANDONED SANITARY AND WATERMAIN PIPES THAT ARE NOT REMOVED. BULKHEADING ABANDONED PIPES THAT ARE 8" OR SMALLER IN DIAMETER, WILL BE INCIDENTAL TO THE THE PLACEMENT OF NEW SANITARY SEWER AND WATERMAIN PIPES.
- 5) REMOVAL AND DISPOSAL OF SANITARY MANHOLES THAT ARE IN THE SAME TRENCH AS THE NEW SEWER IS INCIDENTAL TO THE PLACEMENT OF THE NEW SEWER.
- 6) ANY WORK INVOLVING CAPPING EXISTING WATERMAIN TO KEEP IT IN SERVICE DURING OTHER CONSTRUCTION ACTIVITIES WILL BE INCIDENTAL TO THE PLACEMENT OF THE NEW WATERMAIN. THE CONTRACTOR MAY ALSO HAVE TO MAKE TAPS IN THESE LOCATIONS TO REMOVE AIR FROM THE WATERMAIN AT THE DIRECTION OF THE WATER DEPT.
- 7) THE REMOVAL OF UNSUITABLE MATERIAL FROM SEWER AND WATERMAIN TRENCHES WILL BE DONE SO AT THE DIRECTION OF THE ENGINEER IN THE FIELD.
- 8) THE CONTRACTOR SHALL BYPASS EXISTING SEWAGE WHILE PLACING NEW SANITARY SEWER. THIS WILL BE INCIDENTAL TO THE PLACEMENT OF THE NEW SANITARY SEWER.
- THE CONTRACTOR SHALL MAKE A TEMPORARY CONNECTION BETWEEN THE NEW PIPE AND THE EXISTING SANITARY SEWER AT THE END OF EACH DAY WHILE PLACING THE NEW SEWER. THIS WILL BE INCIDENTAL TO THE PLACEMENT OF THE NEW SEWER.
- 10) ALL NEW WATER SERVICES SHALL BE PLACED FROM THE NEW WATERMAIN TO THE NEW CURB STOP WITHOUT ANY UNIONS OR COUPLINGS, UNLESS PRE APPROVED BY THE ENGINEER IN THE FIELD.
- 11) ANY OLD SANITARY SEWER MAIN PIPES THAT ARE OUTSIDE THE NORMAL TRENCH WIDTH OF ANY NEW UTILITY SHALL BE ABANDONED IN PLACE BY FILLING THE PIPES FULLY WITH FLOWABLE CELLULAR CONCRETE AT THE CONTRACT UNIT PRICE PER LIN. FT.
- 12) TRENCH WIDTH IS DEFINED IN THE STANDARD SEWER AND WATER SPECIFICATIONS AS THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE REMOVAL OF ANY PIPES WITHIN THIS ZONE WILL BE INCIDENTAL TO OTHER PAY ITEMS.
- 13) ANY OLD WATERMAIN PIPES THAT ARE NOT REMOVED DURING CONSTRUCTION SHALL BE BULKHEADED AND LEFT IN PLACE. THE REMOVAL AND DISPOSAL OF WATERMAIN PIPES IN NEW UTILITY TRENCHES WILL BE INCIDENTAL TO OTHER PAY ITEMS.
- 14) WHILE PLACING CASTINGS AND MASONRY BUILD UP RINGS ON MANHOLES, THE CONTRACTOR SHALL TAKE CARE TO PREVENT ANY MORTAR FROM DROPPING INTO FLOWLINES OR PIPE INVERTS. IF ANY MORTAR FALLS INTO THE MANHOLE, IT SHALL BE CLEANED OUT IMMEDIATELY.





UTILITY TRENCH INSULATION

SANITARY AND WATERMAIN PIPES AND LATERALS

PROJECT NO:9995-00-64

HWY: RIVERSIDE AVENUE

COUNTY: MARINETTE

DETAILS AND UTILITY NOTES

PLOT BY: MATT RASTALL

SHEET

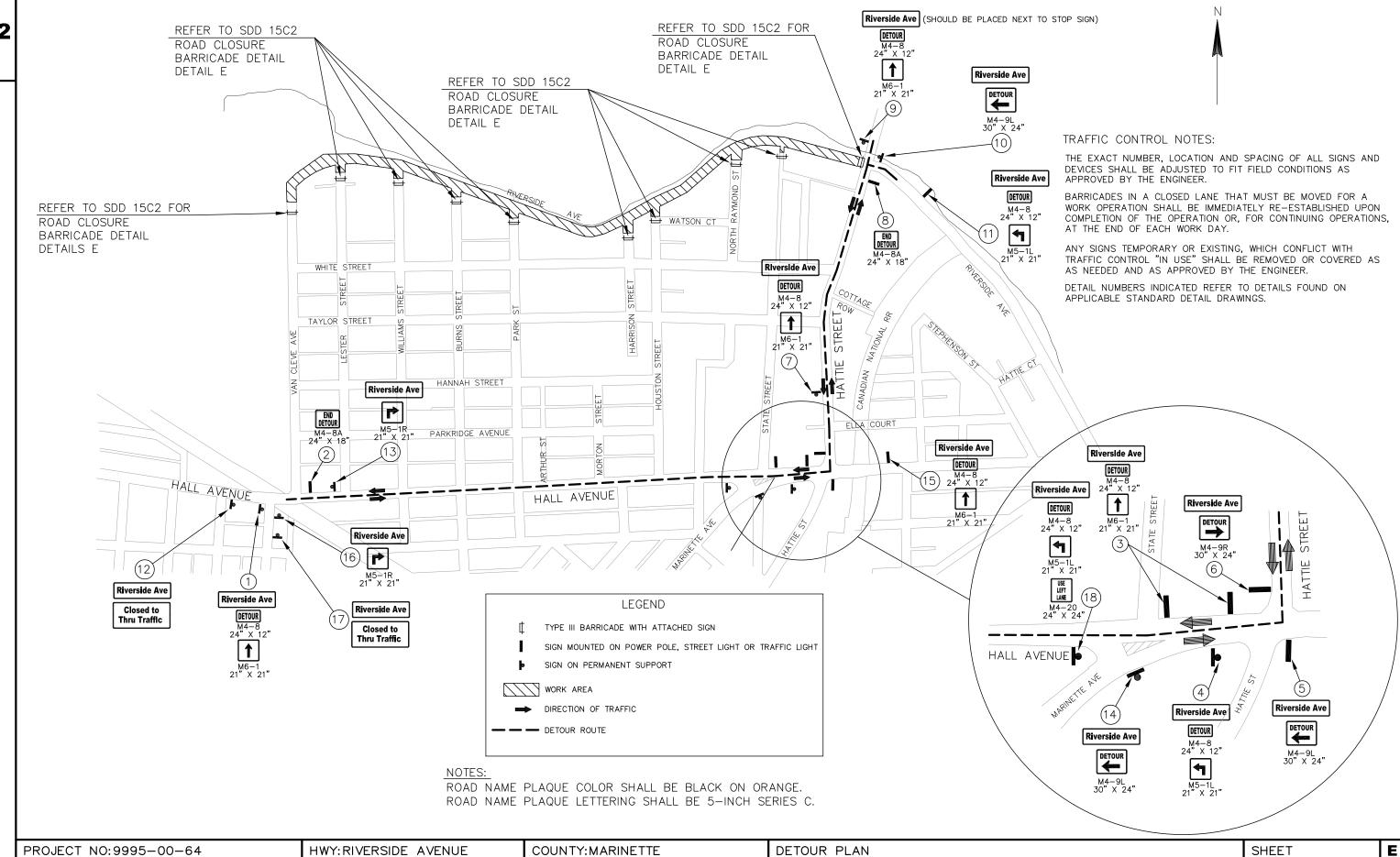
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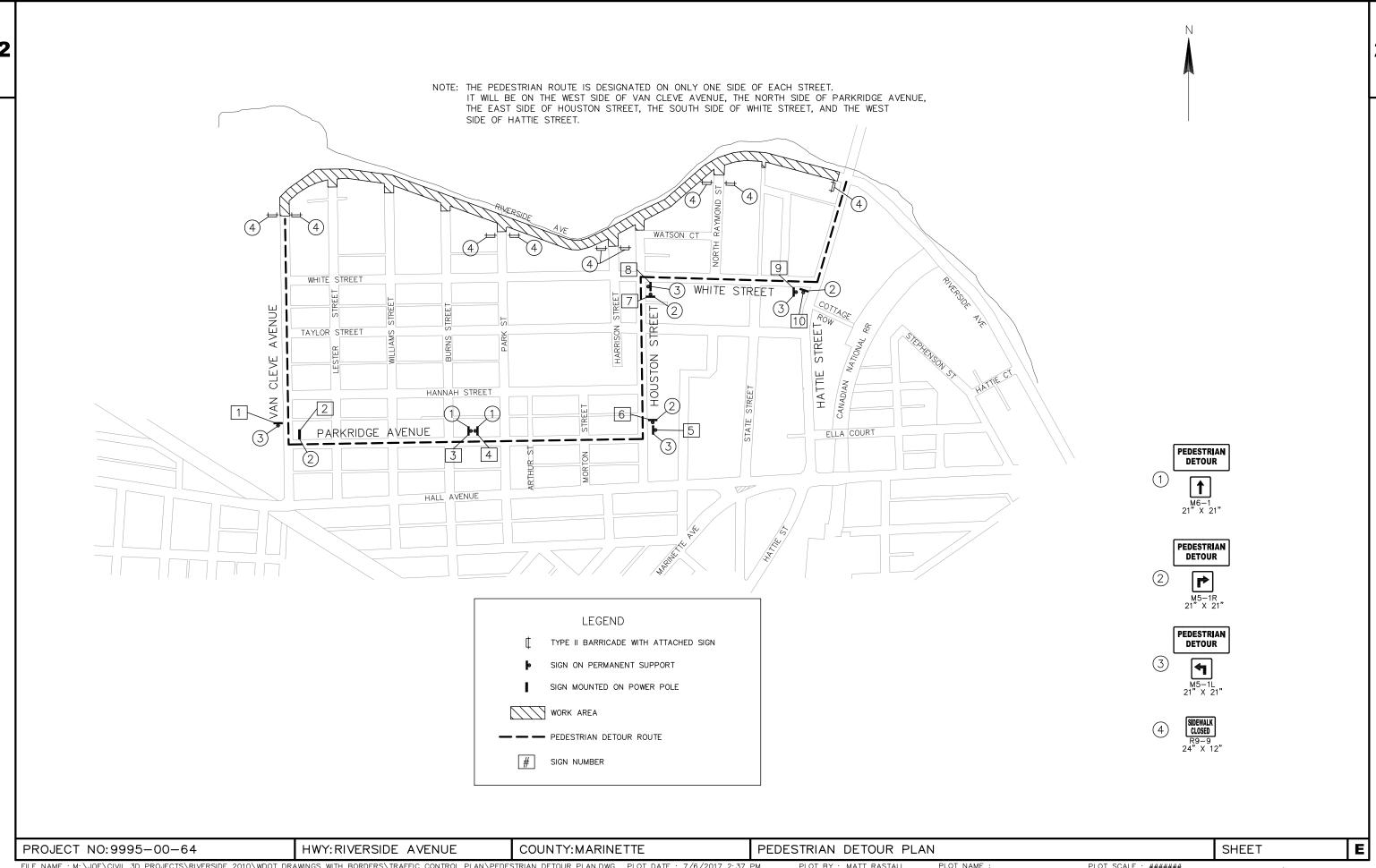
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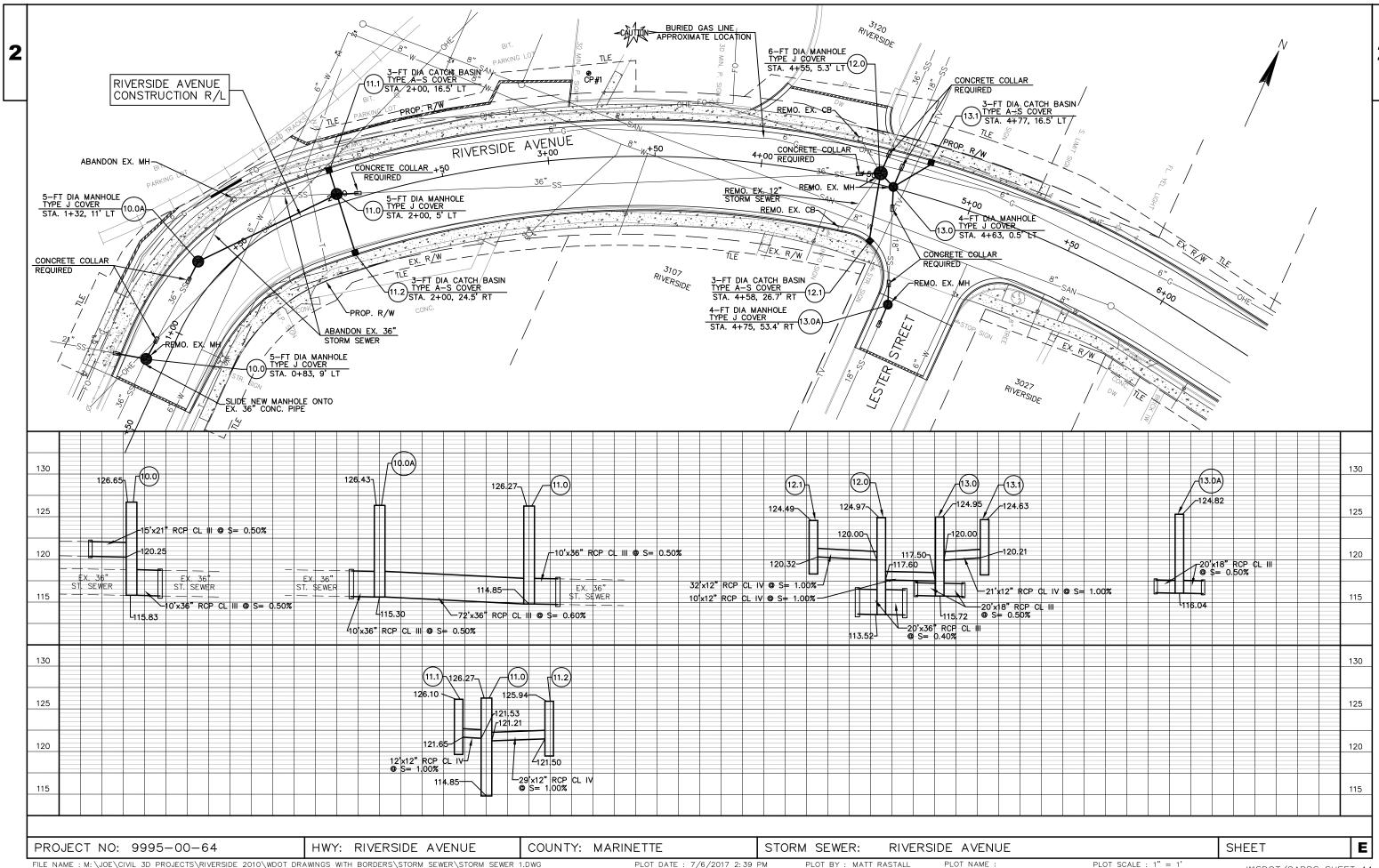
PLOT NAME :

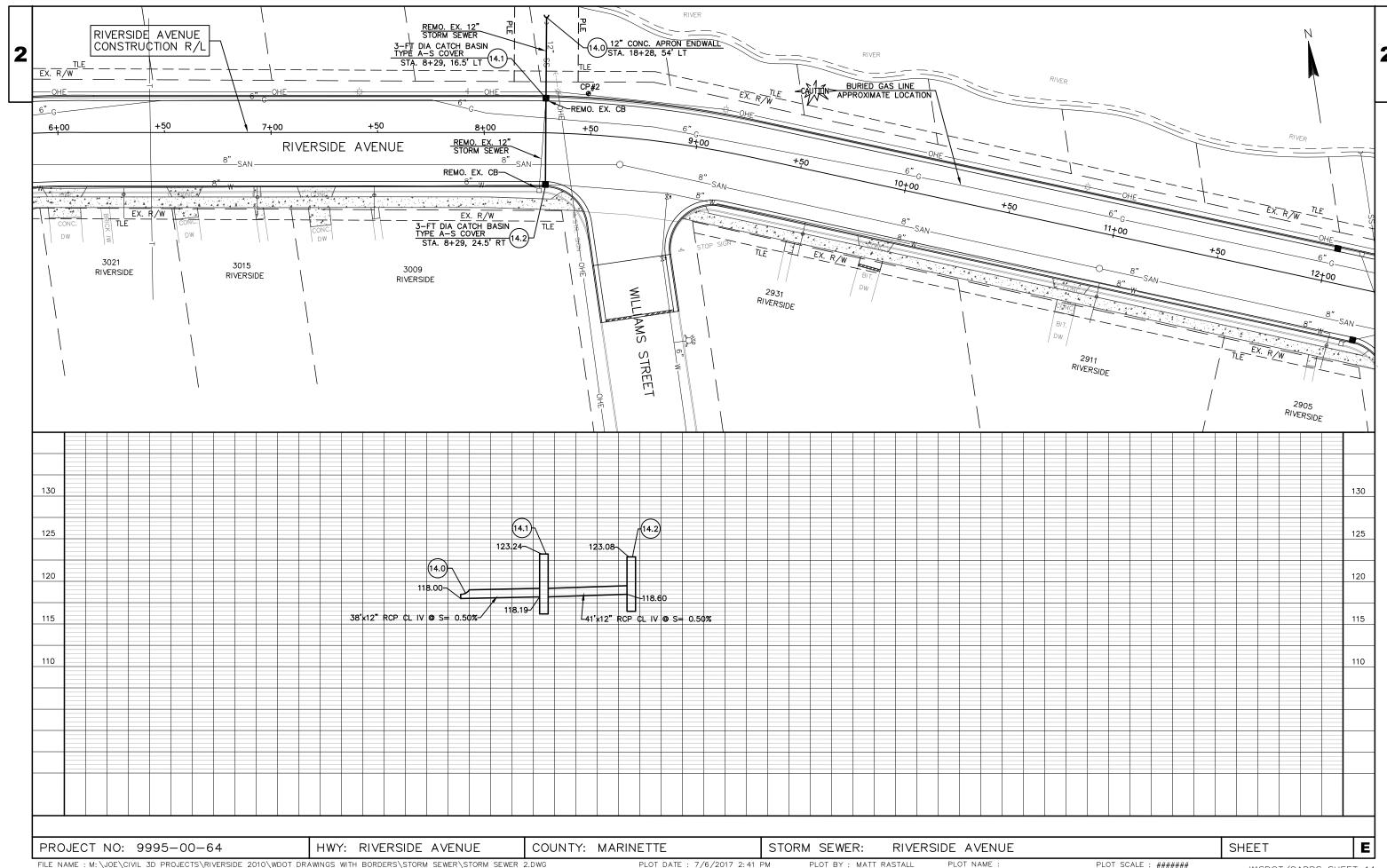
PLOT SCALE : ###### WISDOT/CADDS SHEET 42

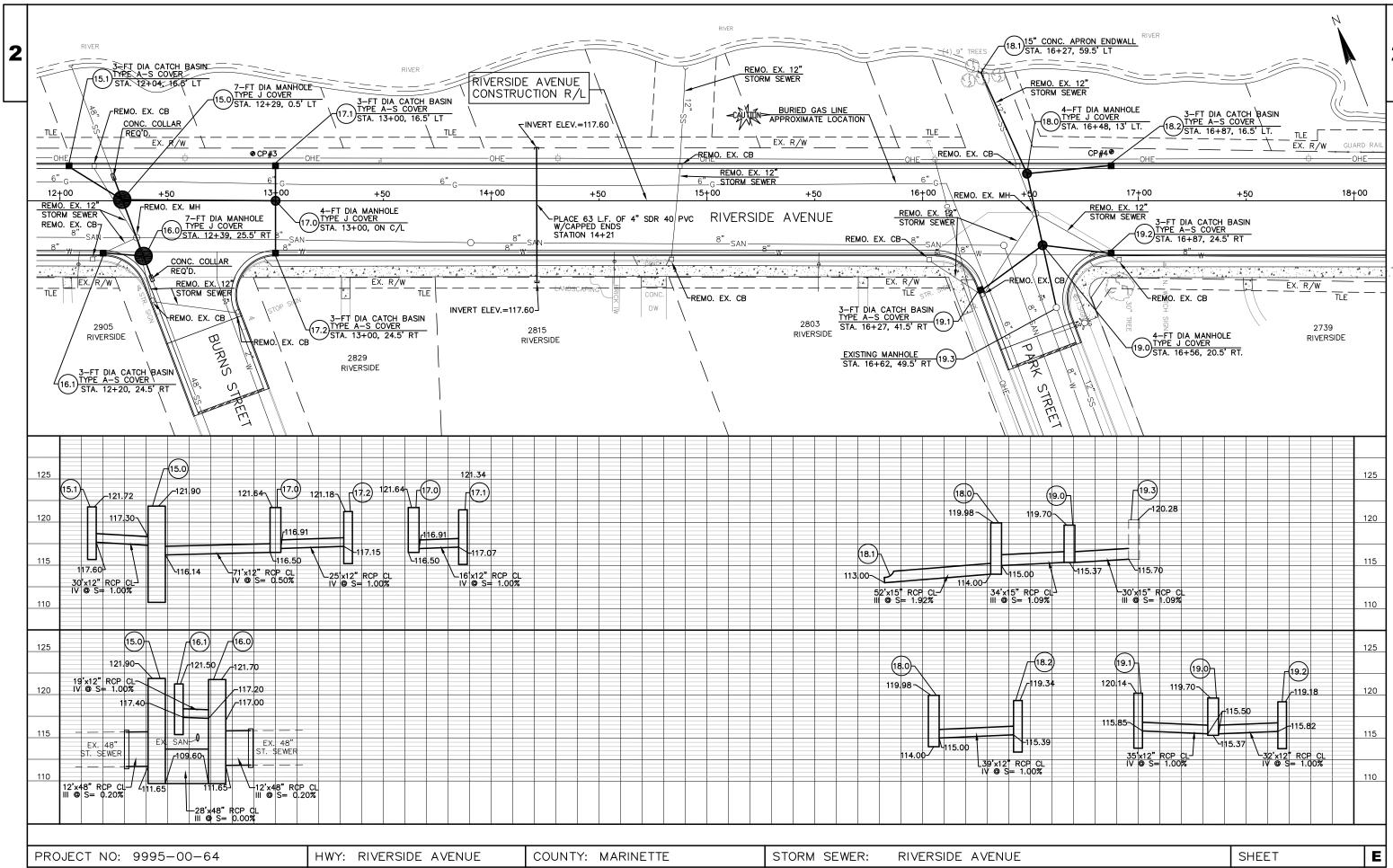


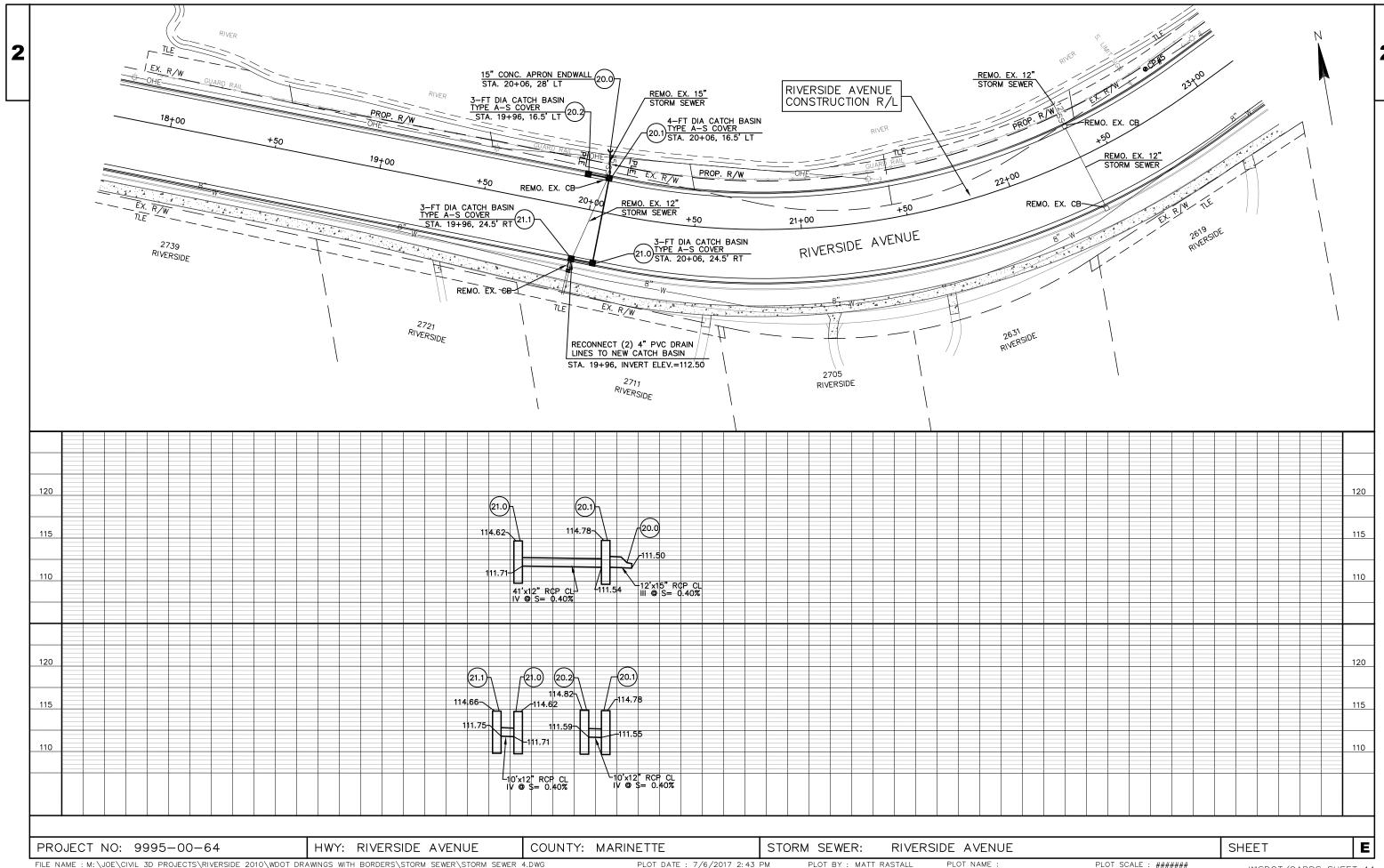


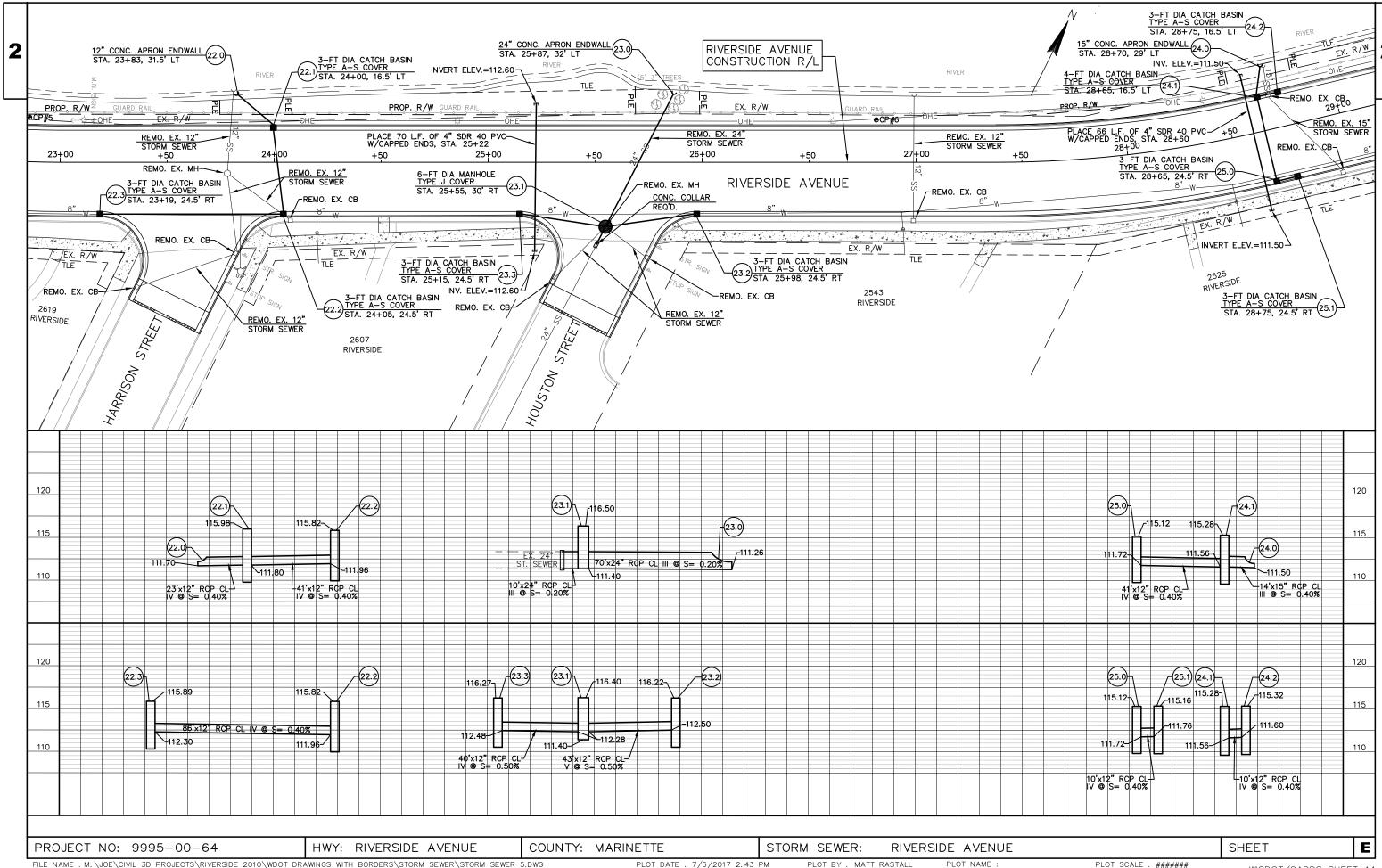


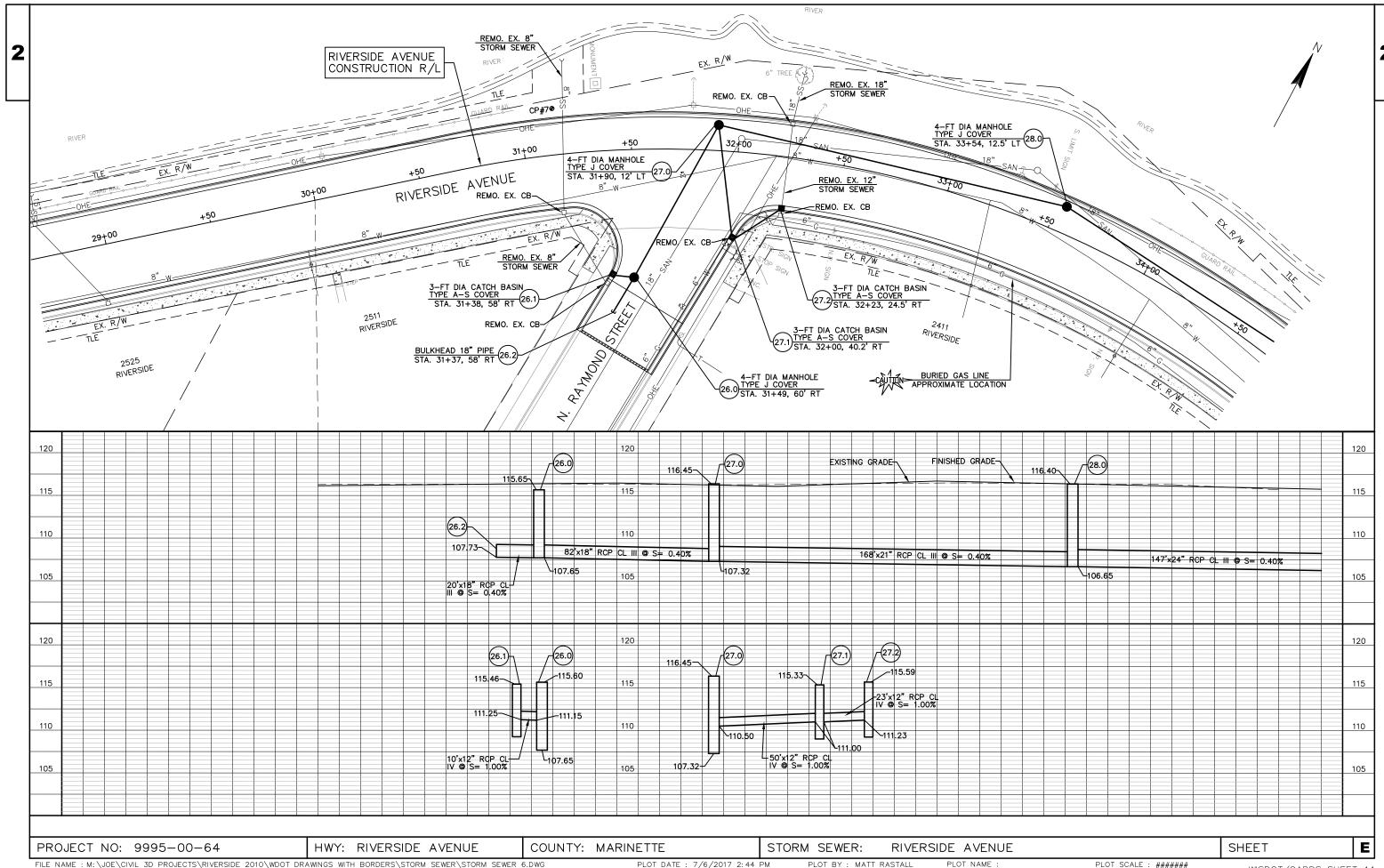


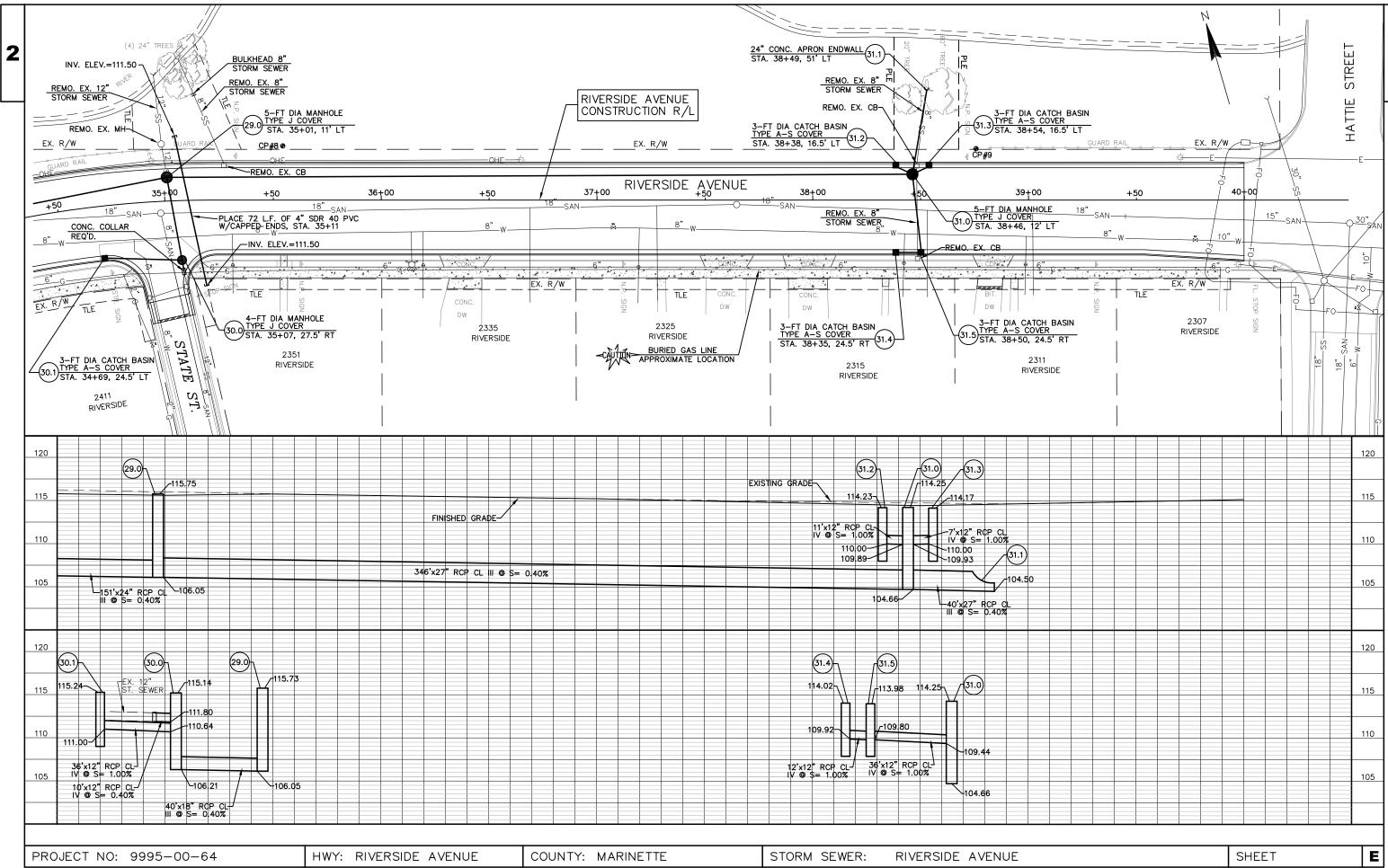


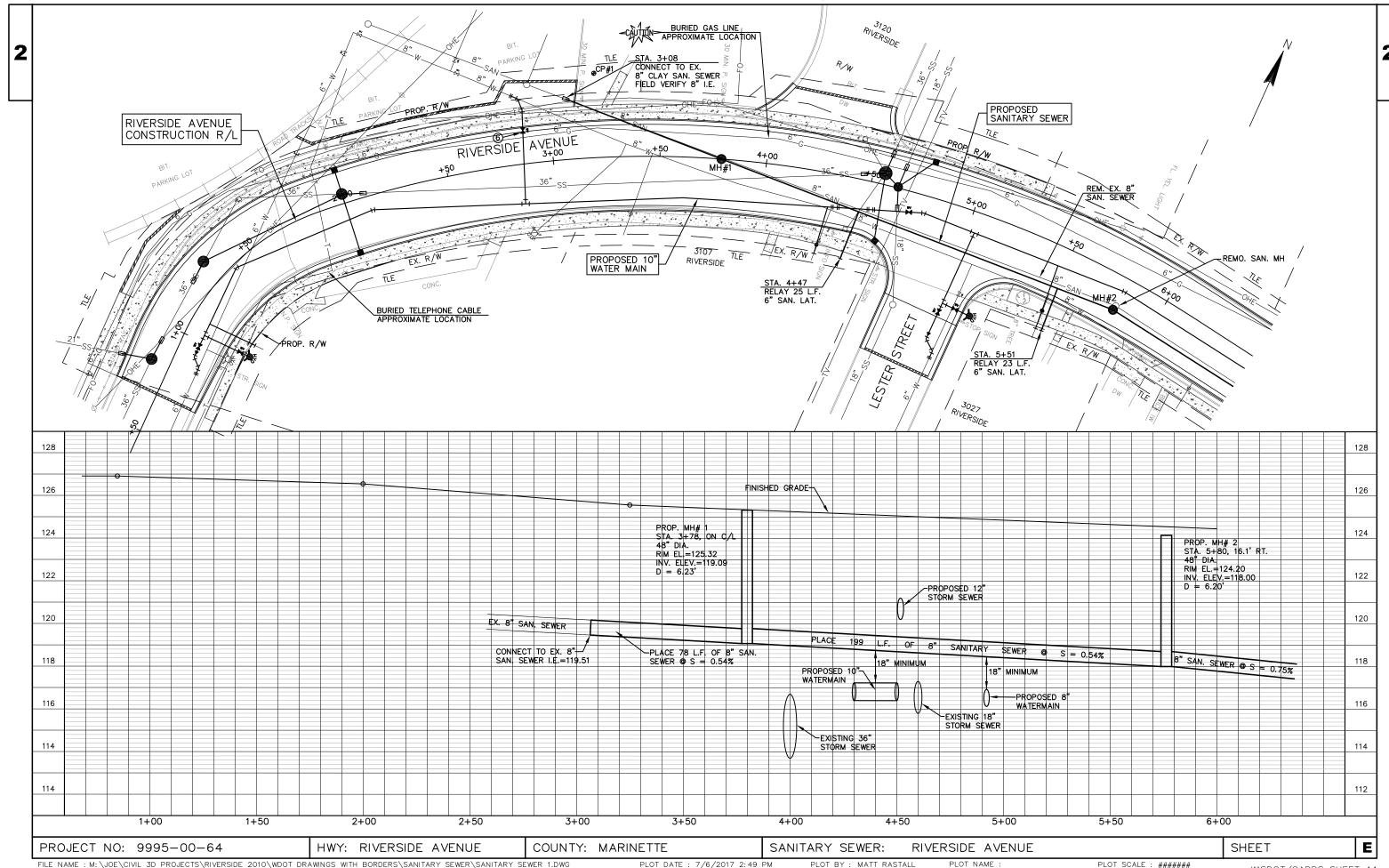


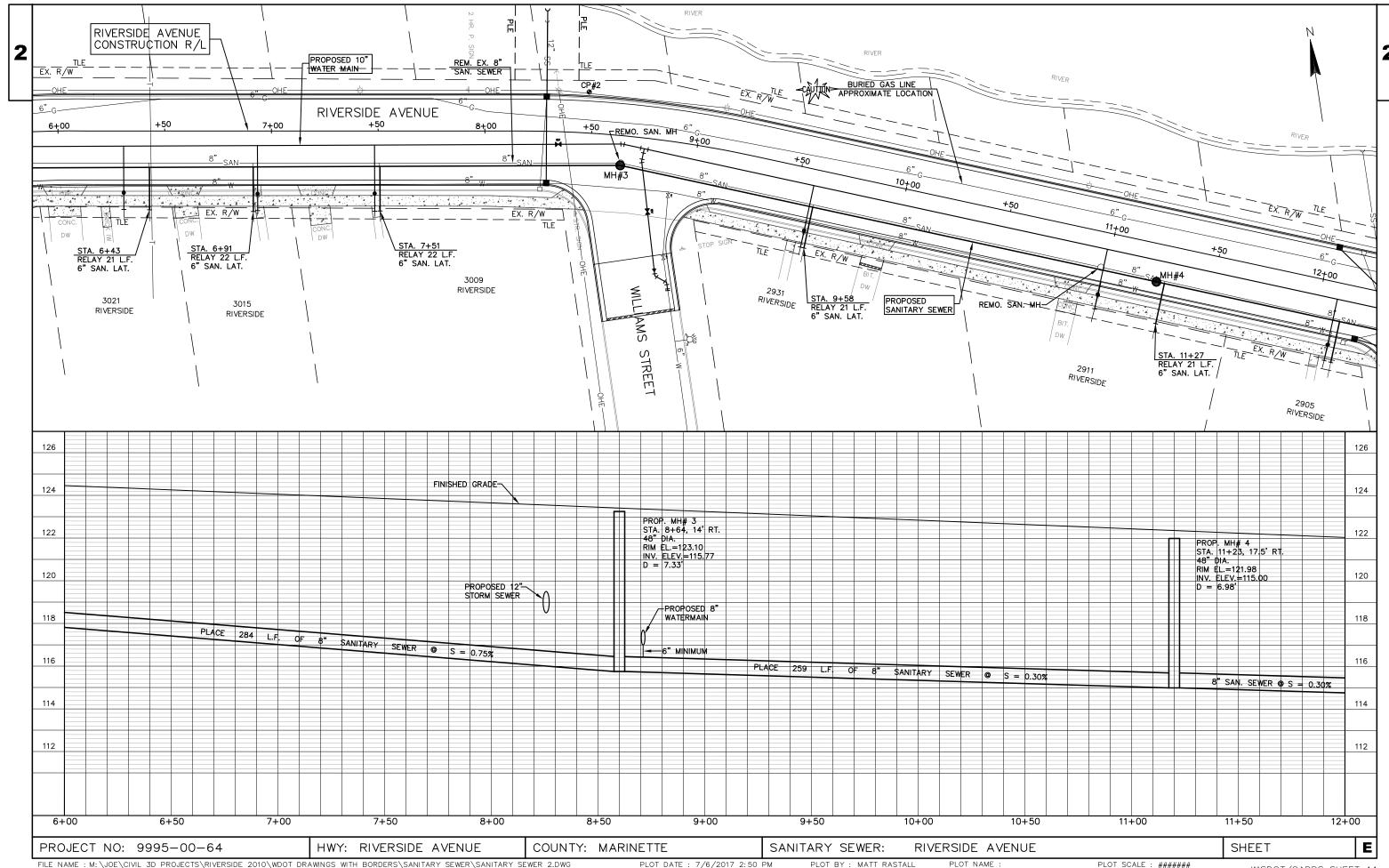


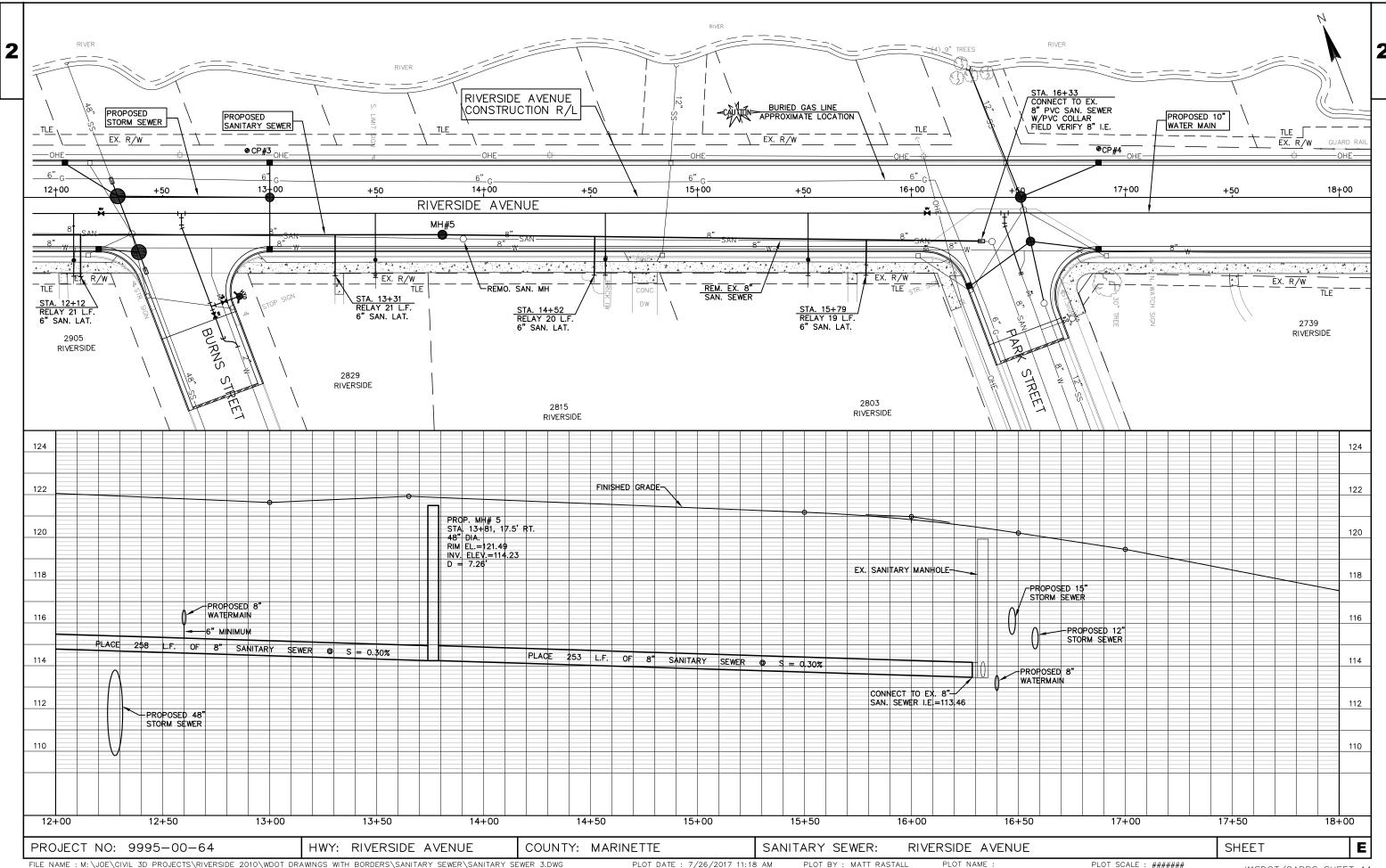


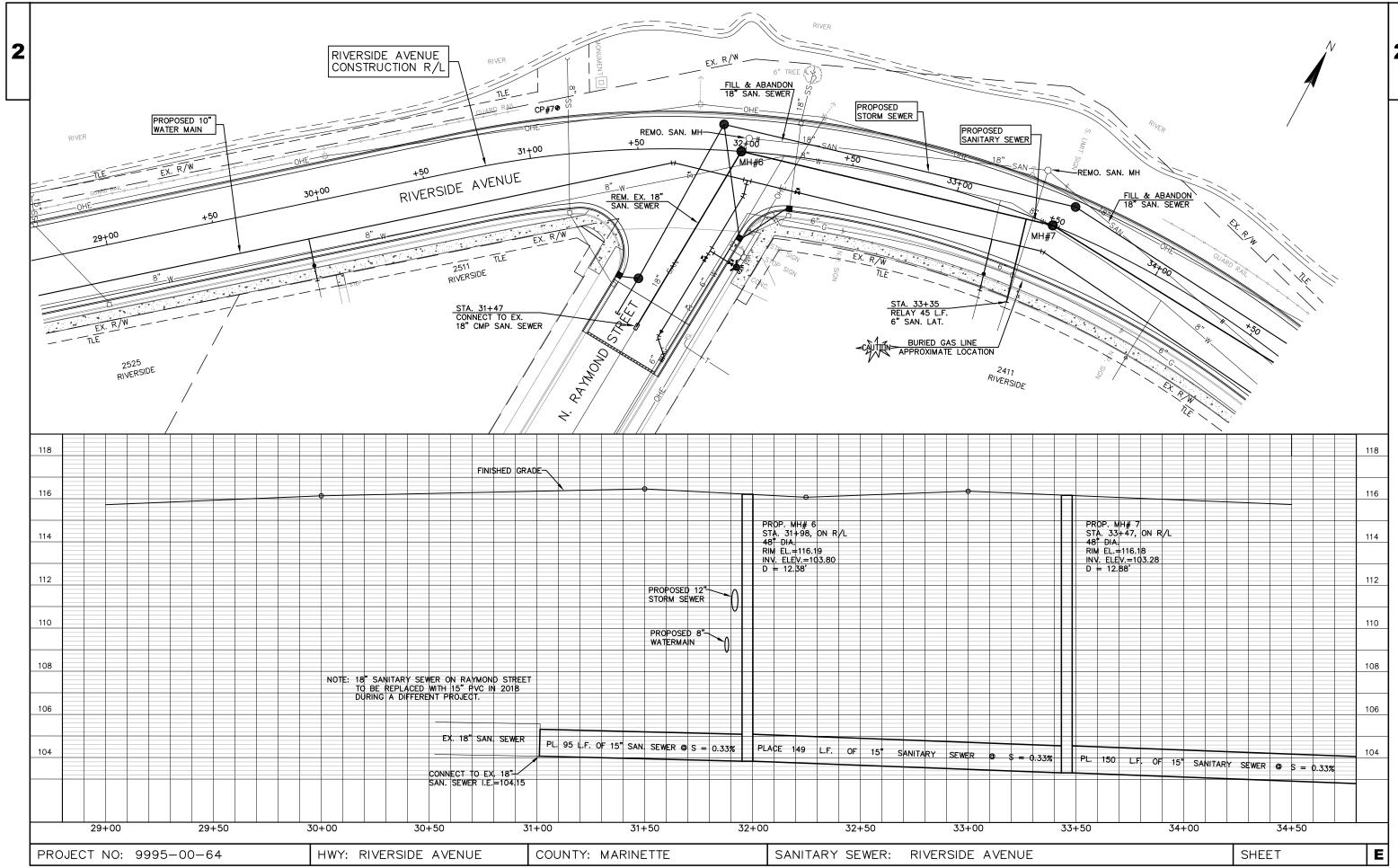


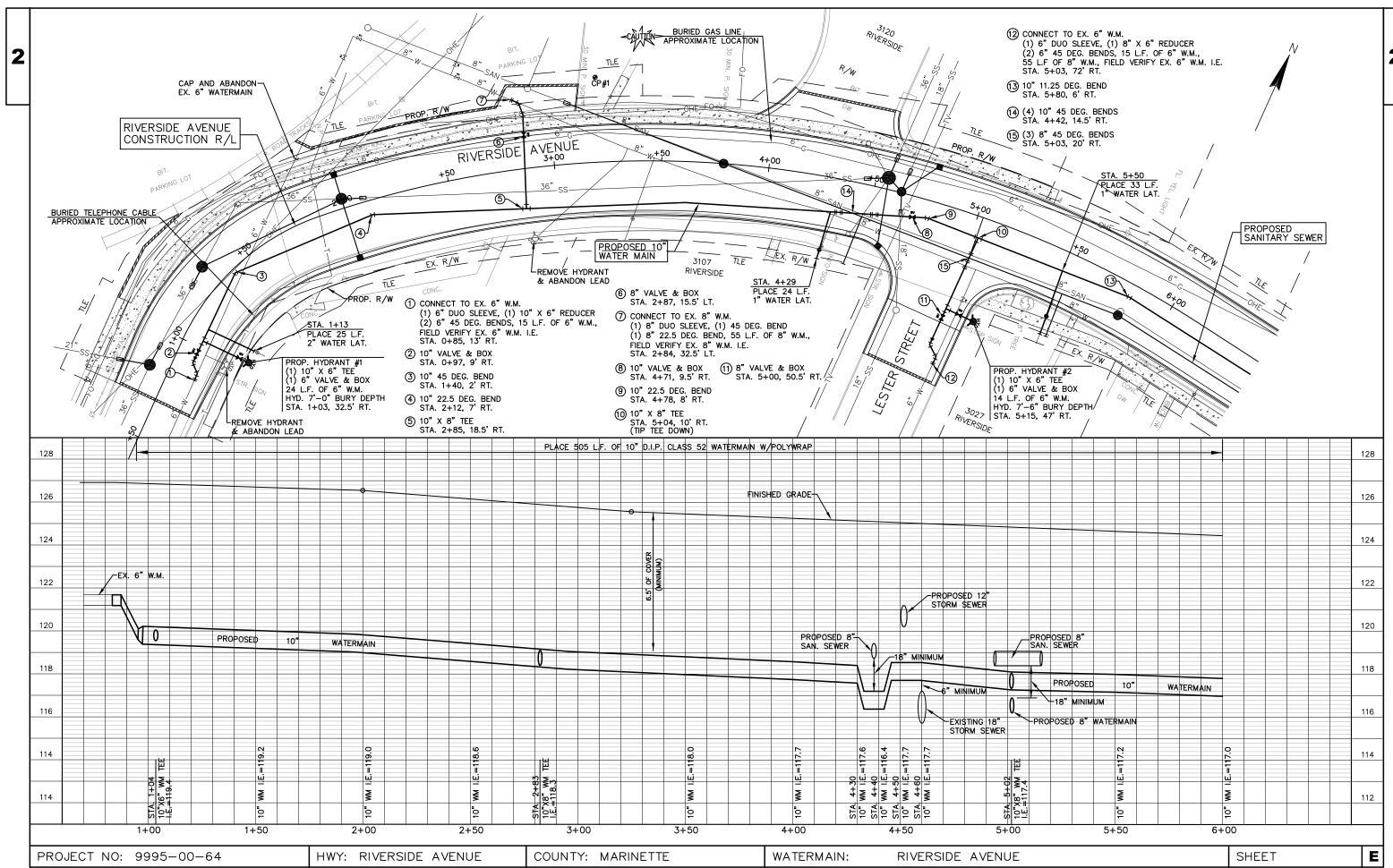


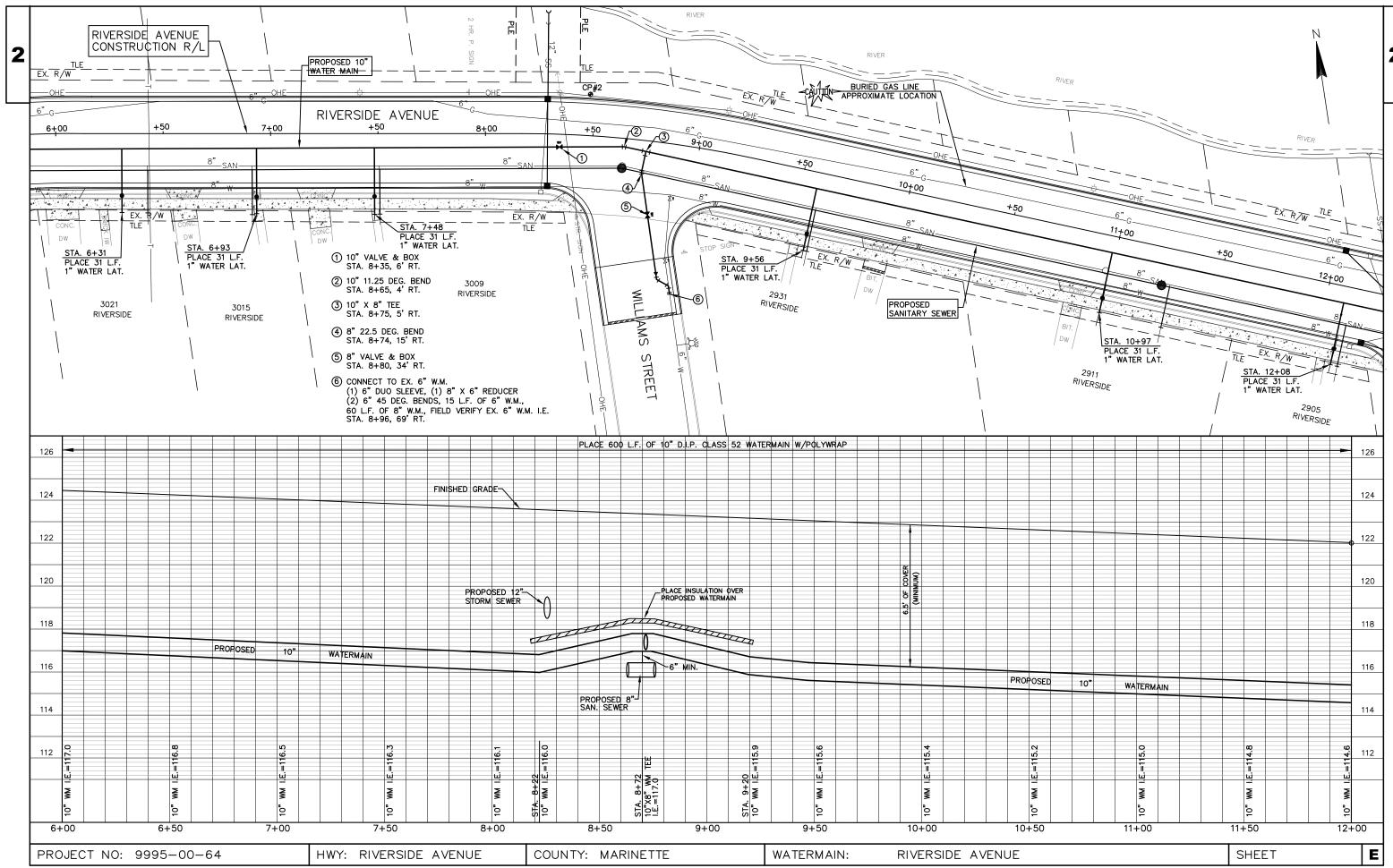


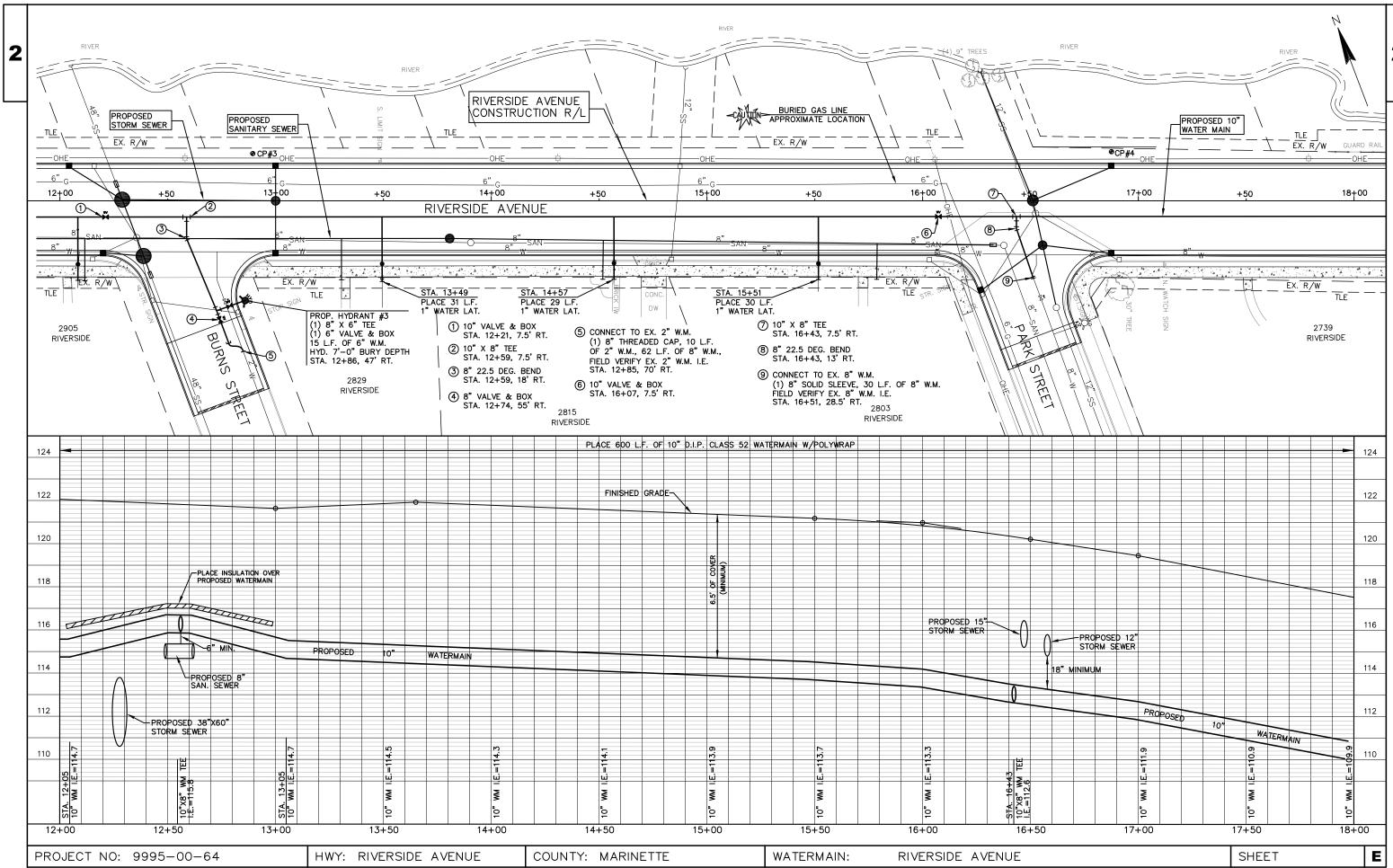


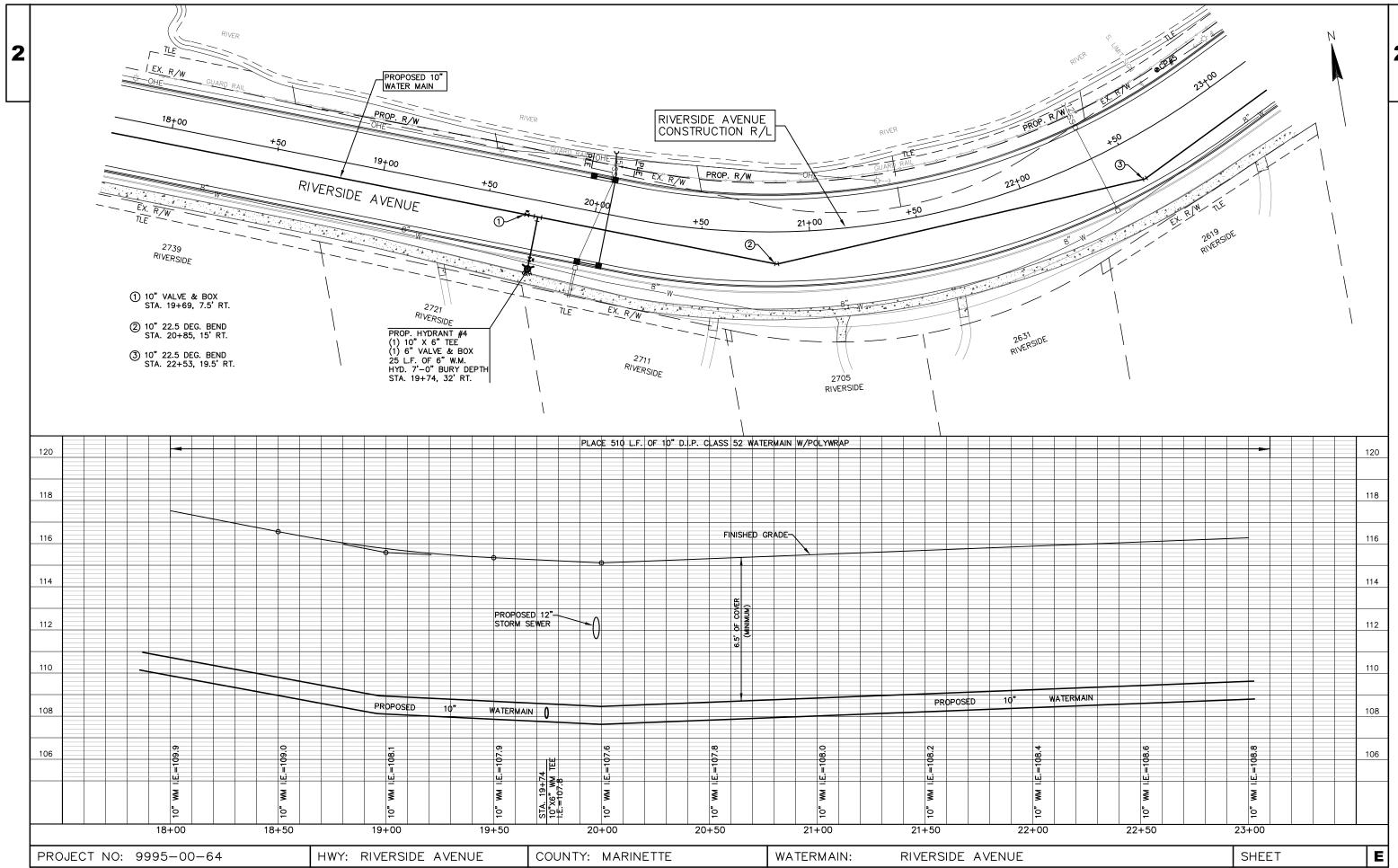


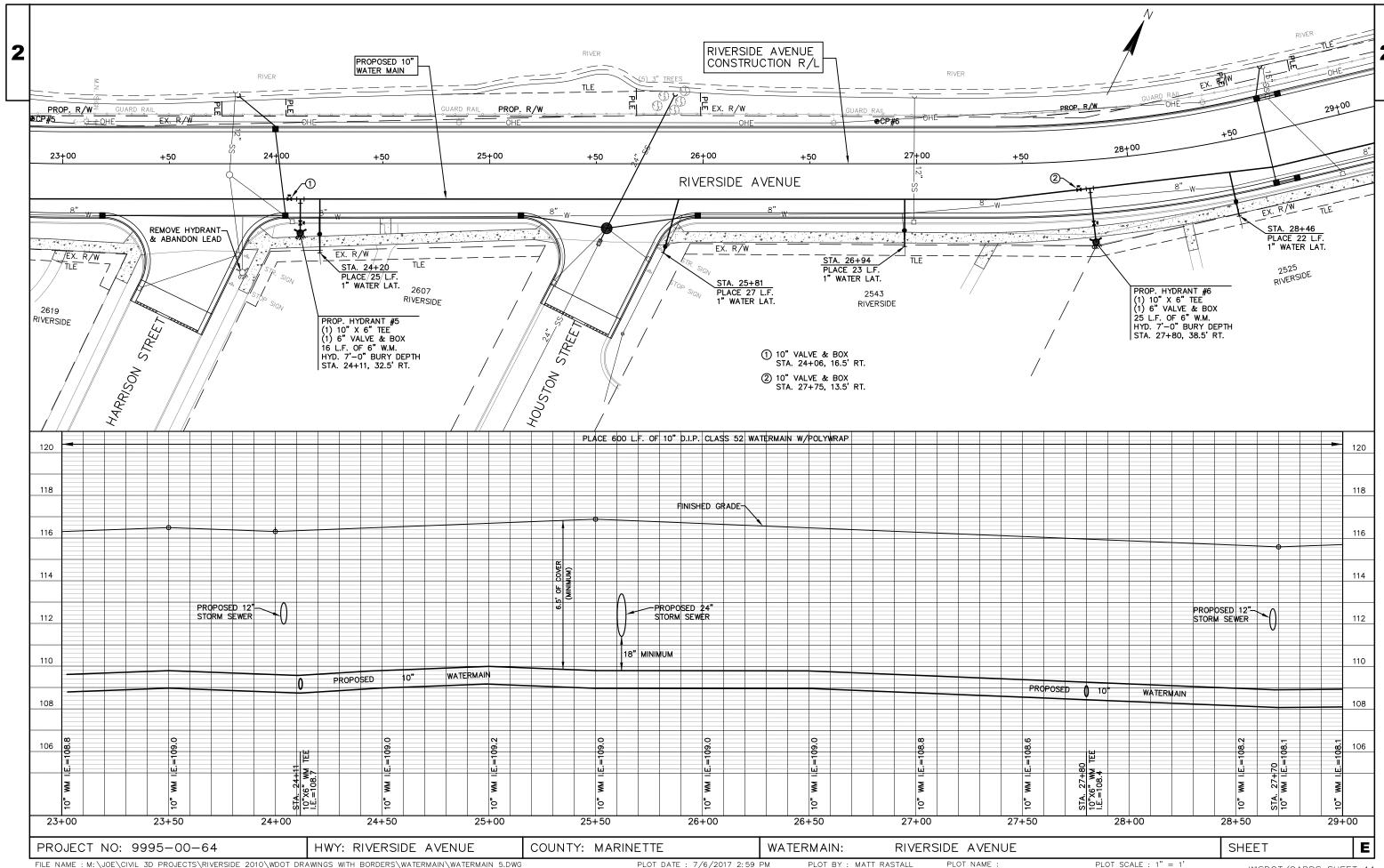


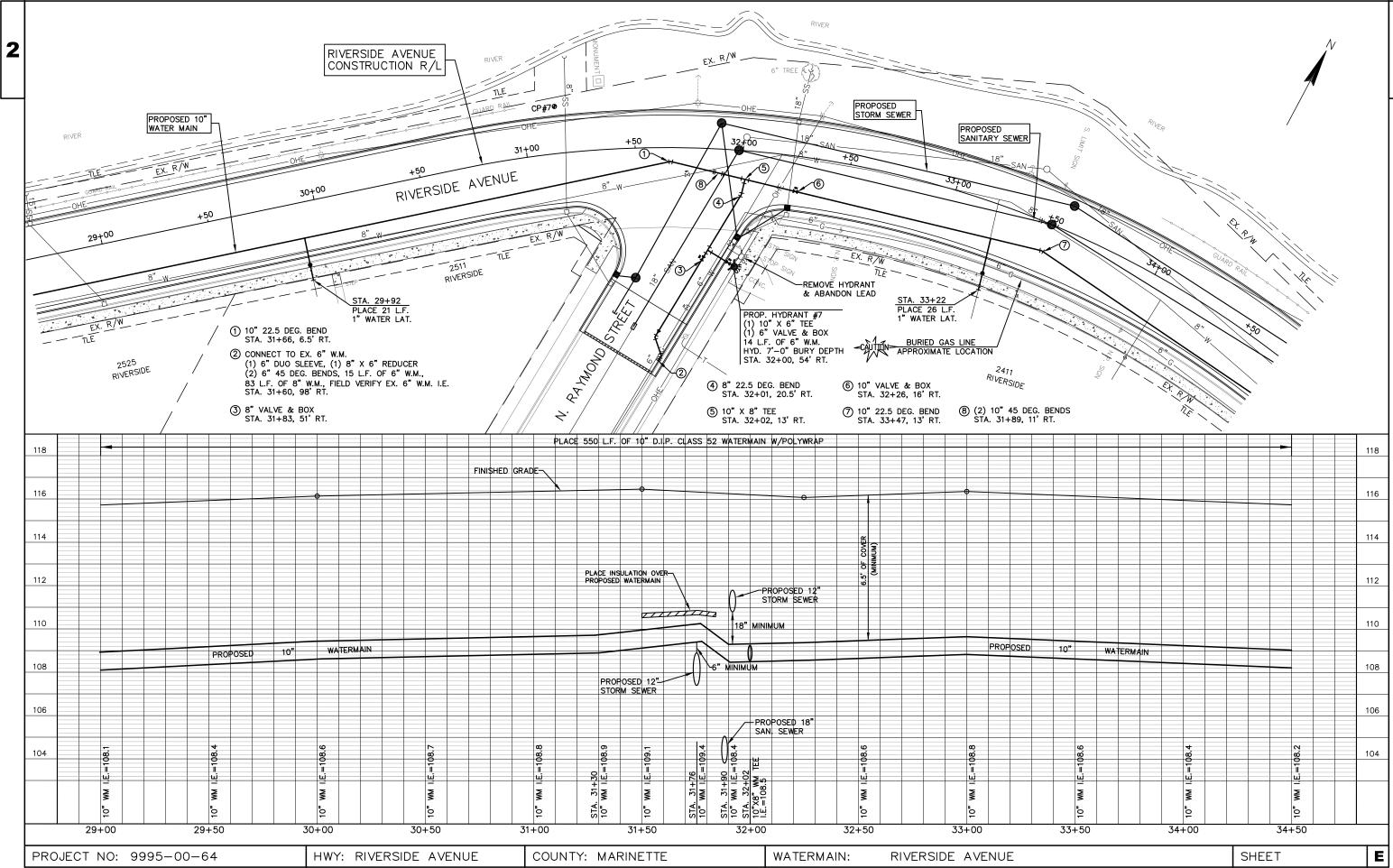




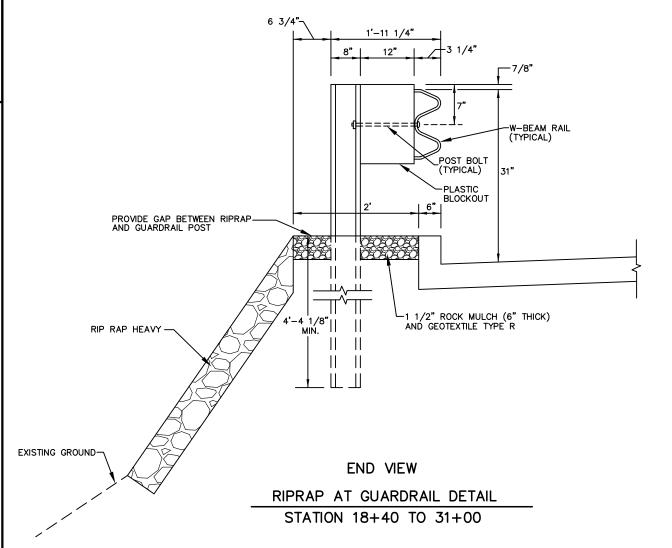


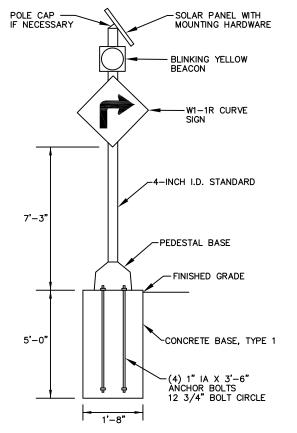












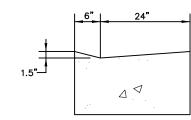
1/2 THICKNESS OF GUTTER -—6" MIN. 3/4" MAX R 3/4" /FT-SLOPE

CONCRETE CURB AND GUTTER 24" TYPE D

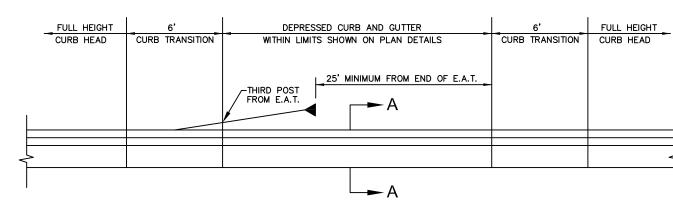
#### NOTES:

- ANCHOR BOLTS SHALL BE THREADED 12" IN LENGTH ON EACH END. WASHERS AND LOCK WASHERS ARE REQUIRED. ANCHOR ROD SHALL PROJECT 3-INCHES FROM TOP OF CONCRETE BASE.
- 2. CONTROL/BATTERY CABINET SHALL BE LOCATED PER OWNERS PREFERENCE AND WISDOT SPECIFICATIONS.

#### SOLAR POWERED SINGLE BLINKER BEACON



#### SECTION A-A DEPRESSED CURB



DEPRESSED CURB HEAD AT BEAM GUARD TERMINAL

-EARTH GRADE CONCRETE PAVEMENT-8-INCH, NON REINFORCED (DOWELED) -18" EXCAVATION BELOW SUBGRADE GEOTEXTILE, TYPE SR-REPLACED WITH BACKFILL GRANULAR 6" BASE AGGRGATE DENSE, 1 1/4-INCH-

EXCAVATION BELOW SUBGRADE LOCATIONS ARE SHOWN ON PLAN AND PROFILE SHEETS.

EXCAVATION BELOW SUBGRADE DETAIL

PROJECT NO:9995-00-64

HWY: RIVERSIDE AVENUE

COUNTY: MARINETTE

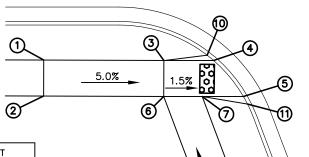
CONSTRUCTION DETAILS

PLOT NAME :

SHEET PLOT SCALE : #######

E

#### RIVERSIDE AVENUE



POINT NUMBER	STATION	OFFSET	ELEVATION	COMMENT
1	15+92	30.34 RT	121.39	FRONT OF WALK
2	15+92	35.34 RT	121.47	BACK OF WALK
3	16+12	30.42 RT	120.39	FRONT OF WALK
4	16+19	35.42 RT	120.33	BEGIN RAMP
5	16+23	35.42 RT	120.24	BEGIN RAMP
6	16+12	35.42 RT	120.55	BACK OF WALK
7	16+17.3	35.42 RT	120.47	FRONT OF WALK
8	16+20.6	58.45 RT	121.55	BACK OF WALK
9	16+25.3	56.69 RT	120.47	FRONT OF WALK
10	16+18	29.69 RT	120.75	BEGIN RAMP
11	16+24.5	36.96 RT	120.63	BEGIN RAMP

POINT NUMBER

8

10

STATION

23+37

OFFSET

37.66 RT

23+20.5 36.72 RT

23+20.5 41.72 RT

23+30.5 37.29 RT

23+30.5 42.29 RT

23+36.7 42.53 RT

23+24.8 53.46 RT

23+30.2 56.05 RT

23+36.2 36.17 RT

23+38.3 42.62 RT

ELEVATION

116.52

116.60

116.24

116.33

116.14

116.24

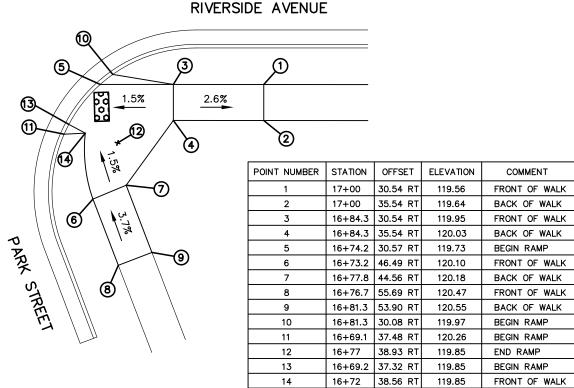
116.68

116.59

116.54

116.20

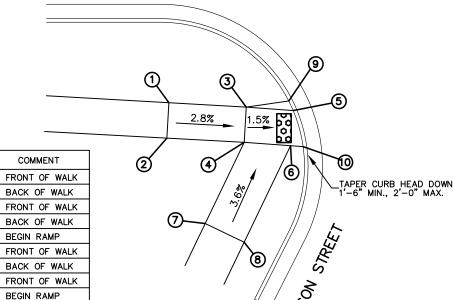
#### CURB RAMP DETAIL PARK STREET SW QUADRANT



## CURB RAMP DETAIL PARK STREET SE QUADRANT

RIVERSIDE AVENUE

#### RIVERSIDE AVENUE



CURB RAMP DETAIL HARRISON STREET SW QUADRANT

BEGIN RAMP

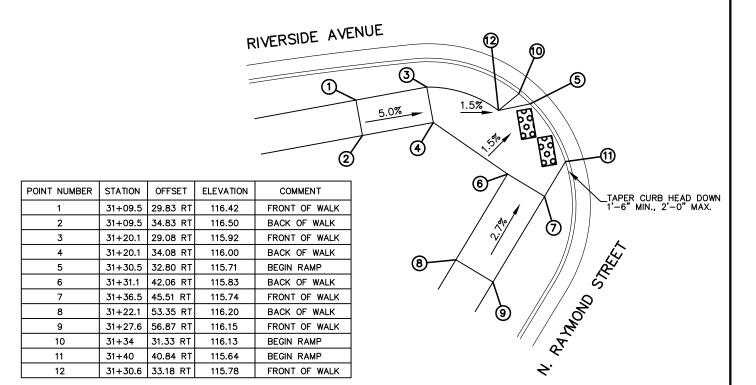
## HARRISON STREET 1.5% 1.2% 4

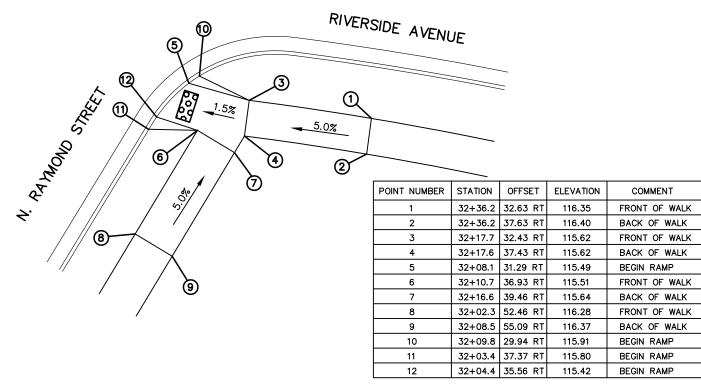
POINT NUMBER	STATION	OFFSET	ELEVATION	COMMENT
1	24+08.2	34.37 RT	116.46	FRONT OF WALK
2	24+08.2	39.37 RT	116.54	BACK OF WALK
3	23+98.2	34.71 RT	116.34	FRONT OF WALK
4	23+97.3	39.75 RT	116.42	BACK OF WALK
5	23+87.2	35.09 RT	116.17	BEGIN RAMP
6	23+91.6	39.94 RT	116.32	FRONT OF WALK
7	23+96.1	42.14 RT	116.42	BACK OF WALK
8	23+86.7	50.03 RT	116.62	FRONT OF WALK
9	23+91.1	52.20 RT	116.70	BACK OF WALK
10	23+88	33.83 RT	116.55	BEGIN RAMP
11	23+84	41.60 RT	116.63	BEGIN RAMP
12	23+84.6	40.18 RT	116.22	BEGIN RAMP

## CURB RAMP DETAIL HARRISON STREET SE QUADRANT

PROJECT NO:9995-00-64 SHEET E HWY: RIVERSIDE AVENUE COUNTY: MARINETTE CONSTRUCTION DETAILS







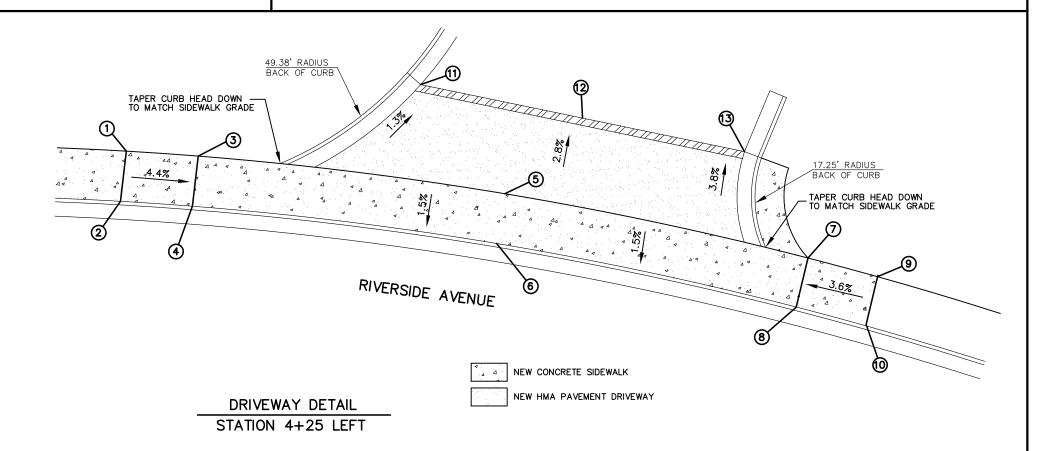
CURB RAMP DETAIL

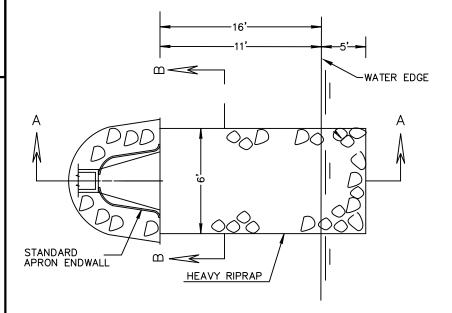
NORTH RAYMOND STREET SE QUADRANT

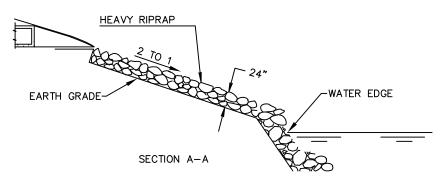
CURB RAMP DETAIL

NORTH RAYMOND STREET SW QUADRANT

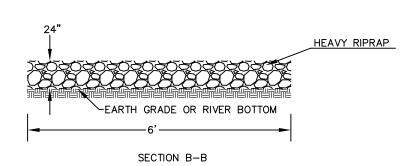
POINT NUMBER	STATION	OFFSET	ELEVATION	COMMENT
1	3+71	17.50 LT	125.57	BACK OF WALK
2	3+71	24.50 LT	125.46	FRONT OF WALK
3	3+81	17.50 LT	125.13	BACK OF WALK
4	3+81	24.50 LT	125.02	FRONT OF WALK
5	4+22	17.50 LT	124.96	BACK OF WALK
6	4+22	24.50 LT	124.85	FRONT OF WALK
7	4+63	17.50 LT	124.80	BACK OF WALK
8	4+63	24.50 LT	124.69	FRONT OF WALK
9	4+73	17.50 LT	125.16	BACK OF WALK
10	4+73	24.50 LT	125.05	FRONT OF WALK
11	4+09.1	37.71 LT	124.82	CURB FLANGE
12	4+30.4	36.71 LT	124.65	DRIVEWAY
13	4+51.6	36.75 LT	124.33	CURB FLANGE
14	3+96.7	24.50 LT	125.07	CURB FLANGE
15	4+54.3	24.50 LT	124.83	CURB FLANGE



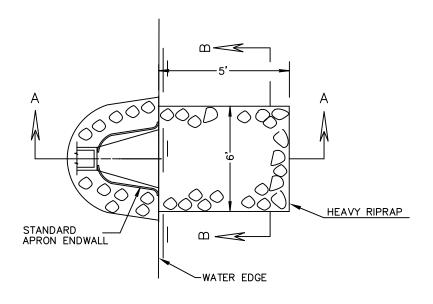


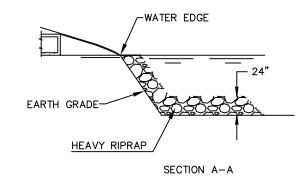


\* RIPRAP TO BE PLACED ON RIVER BANK AND RIVER BOTTOM BELOW NORMAL WATER ELEVATION. NO EXCAVATION REQUIRED.

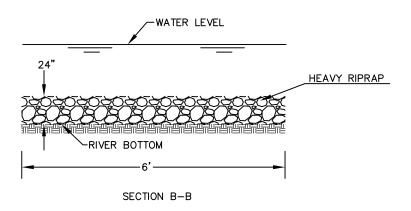


HEAVY RIPRAP AT APRON ENDWALL STATION 8+30

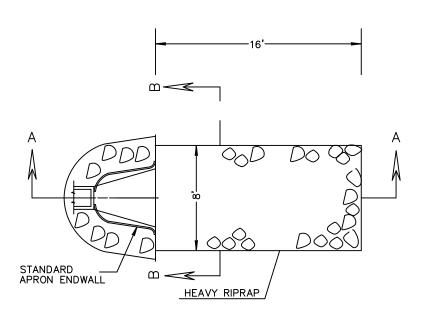




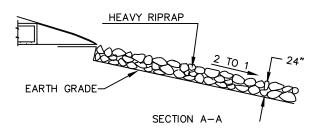
\* RIPRAP TO BE PLACED ON RIVER BANK AND RIVER BOTTOM BELOW NORMAL WATER ELEVATION. NO EXCAVATION REQUIRED.

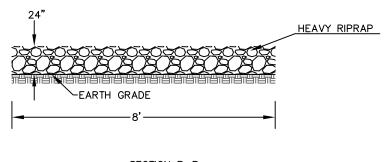


HEAVY RIPRAP AT APRON ENDWALL STATION 16+27, 20+04, 23+83, 25+87, & 28+70



\* PLACE RIPRAP ON DISTURBED SLOPE AREAS.





SECTION B-B

HEAVY RIPRAP AT APRON ENDWALL STATION 38+50

PROJECT NO:9995-00-64

HWY: RIVERSIDE AVENUE

COUNTY: MARINETTE

CONSTRUCTION DETAILS

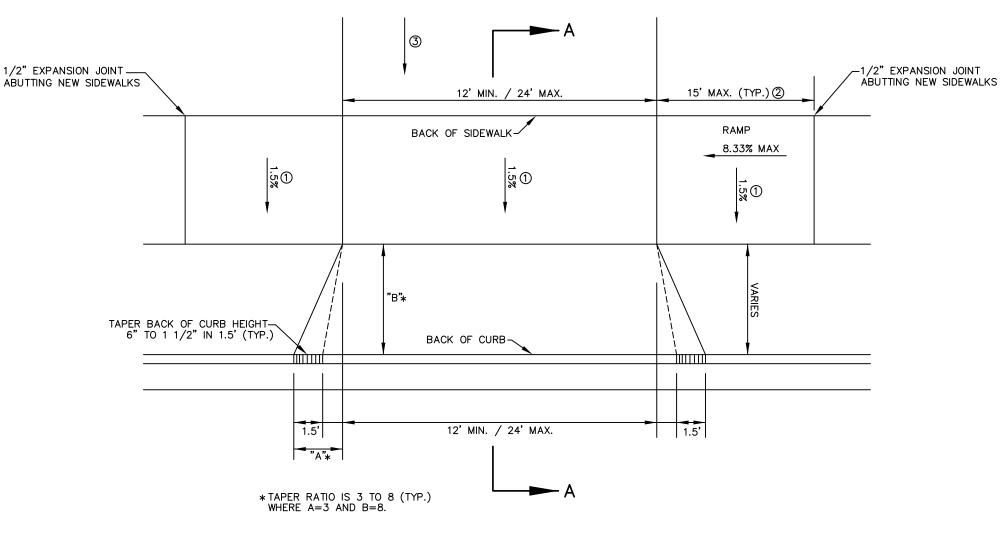
PLOT NAME :

SHEET

E

FILE NAME: M:\JOE\CIVIL 3D PROJECTS\RIVERSIDE 2010\WDOT DRAWINGS WITH BORDERS\CONSTRUCTION DETAILS\CONSTRUCTION DETAILS 4.DWG PLOT DATE: 7/26/2017 3:03 PM

PLOT BY: MATT RASTALL

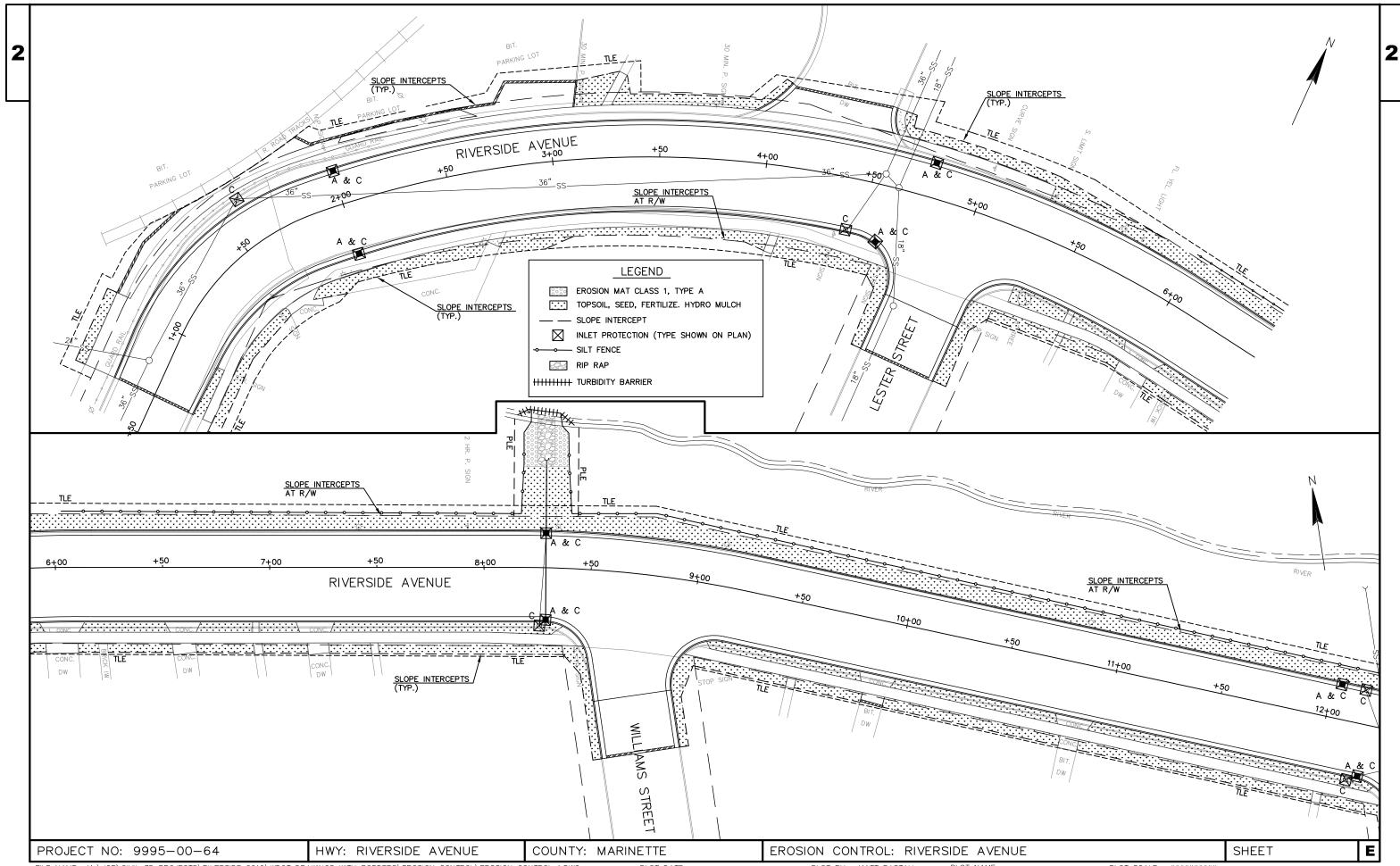


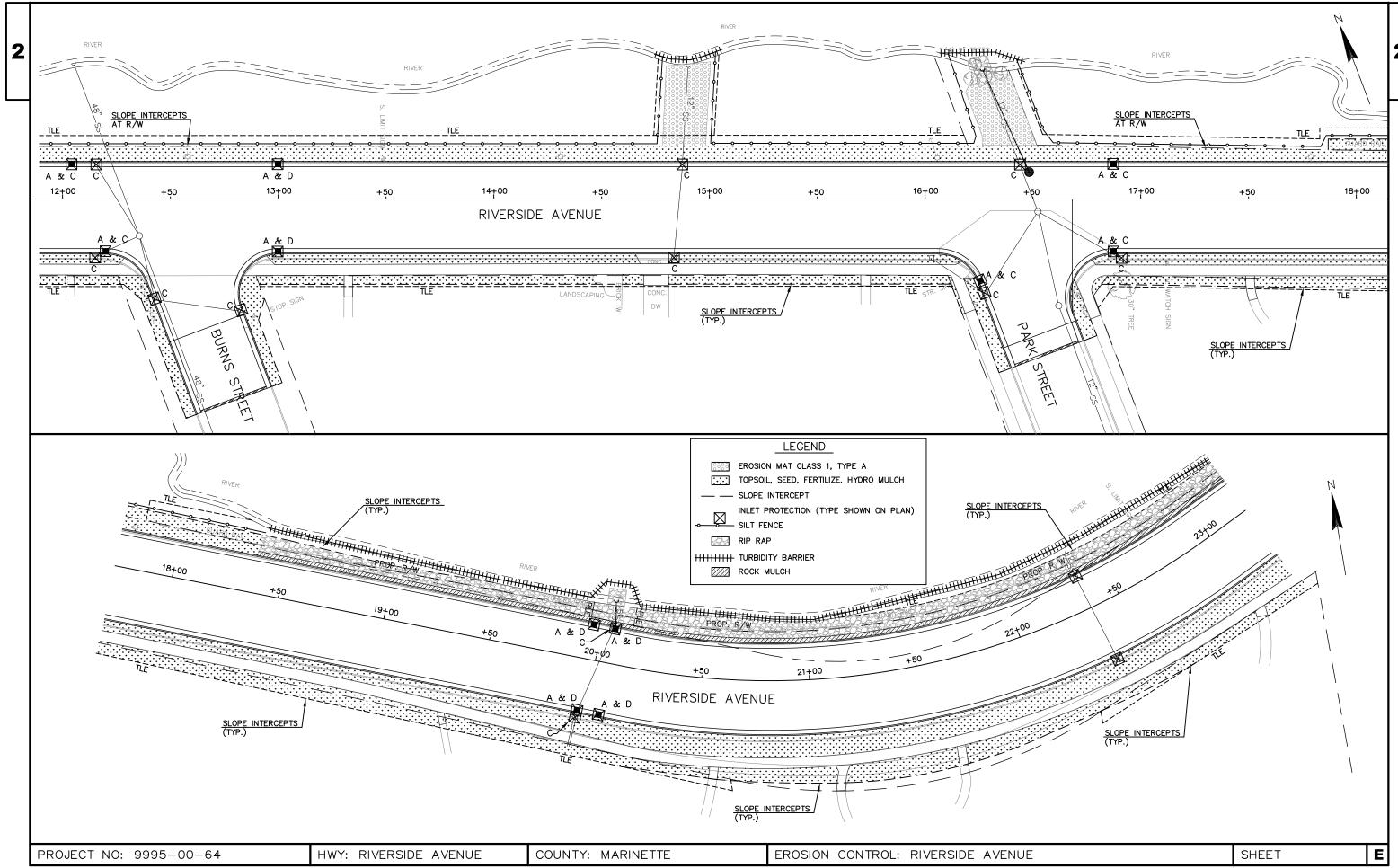
#### VARIABLE SIDEWALK CONCRETE APRON DRIVEWAY(4) WIDTH VARIES WIDTH VARIES 1.5% ① 4 4 4 4 4 -1 1/2**"** NOTES: SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID 6" OF 1/4" BASE AGGREGATE-FOR AS CONCRETE DRIVEWAY, 6-INCH. INTEGRAL CURB & GUTTER CONCRETE APRON PAID FOR AS CONCRETE DRIVEWAY SECTION A-A

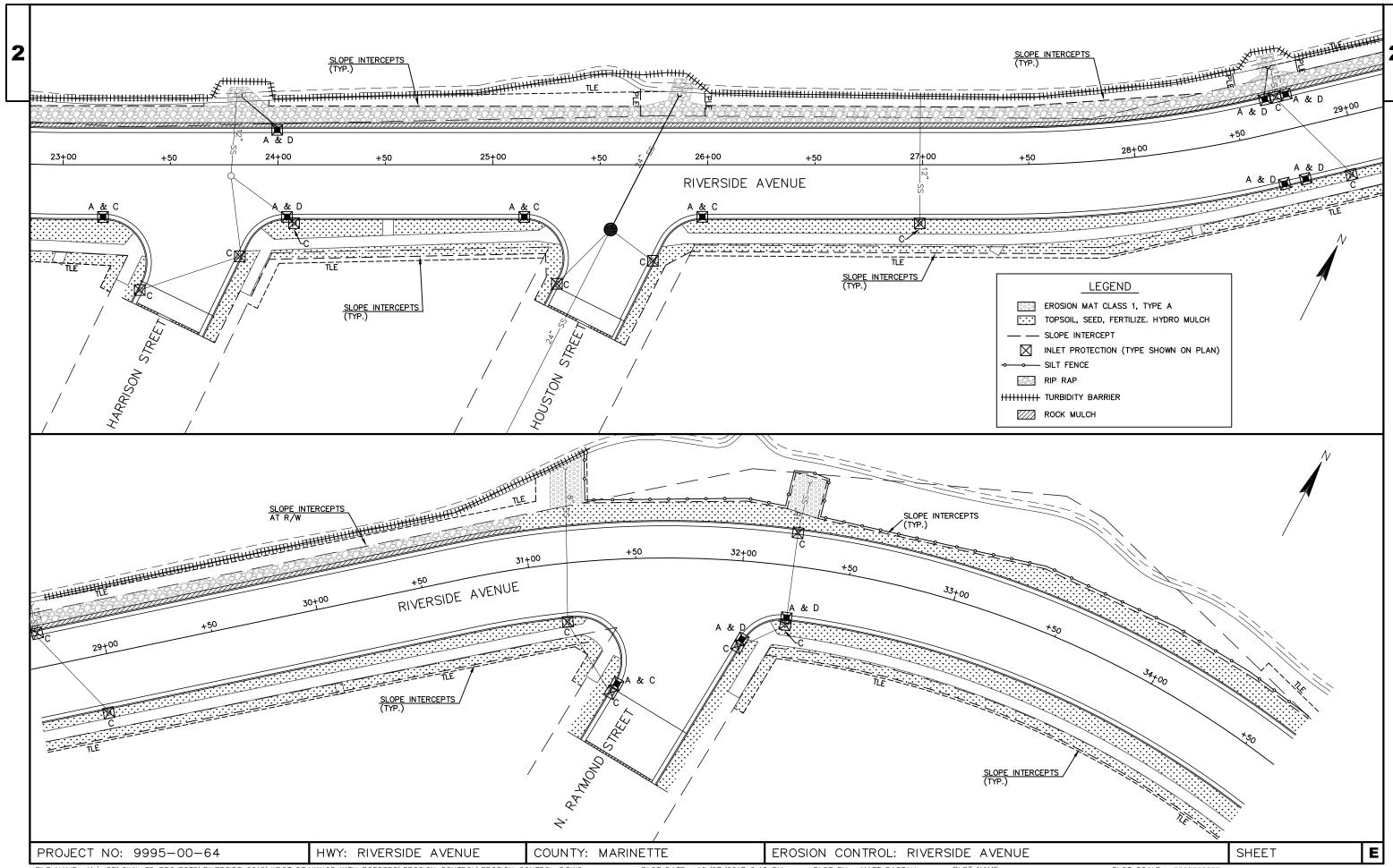
CONCRETE DRIVEWAY DETAIL

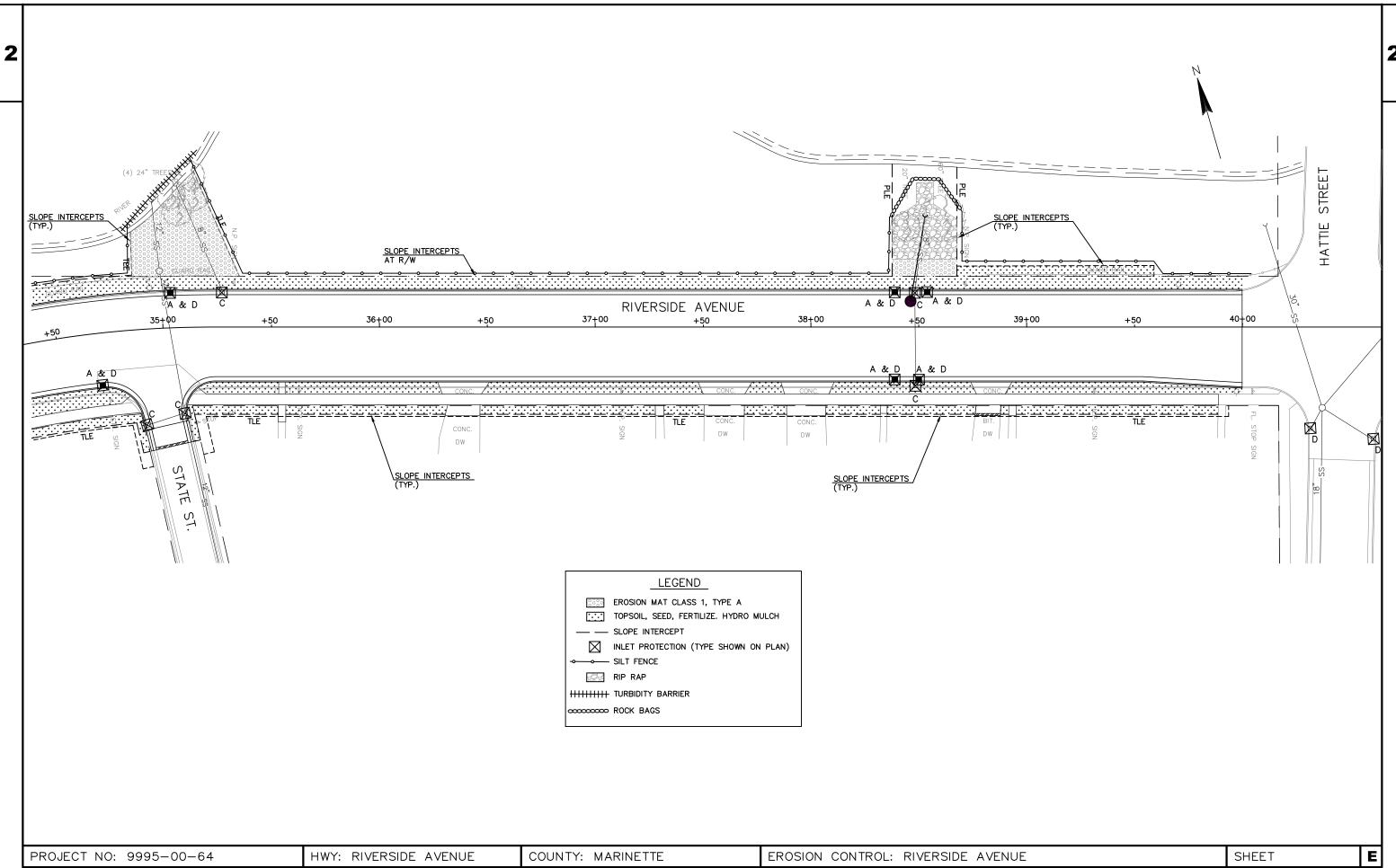
#### **GENERAL NOTES**

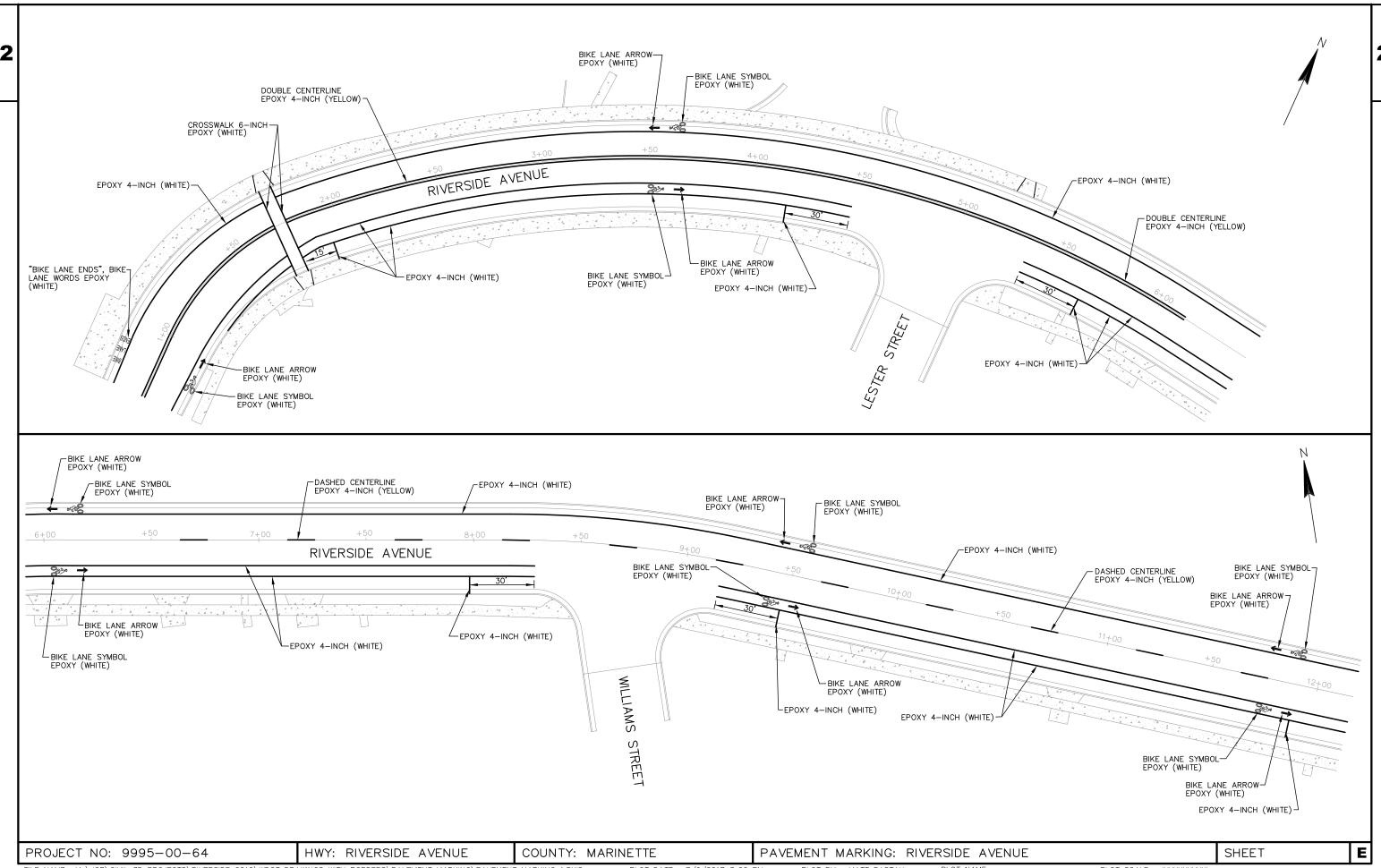
- $\bigodot$  construction tolerance of 0.5% +/- for sidewalk cross slope. The sidewalk cross slope shall not exceed 2%.
- (2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT TO EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.
- 3 DRIVEWAY SLOPES: DESIRABLE MAXIMUM 10.5% UP AWAY FROM SIDEWALK (SAG) 8.5% DOWN AWAY FROM SIDEWALK (CREST) ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
   2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
   6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES
- (5) PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER THE 20 FEET IN WIDTH

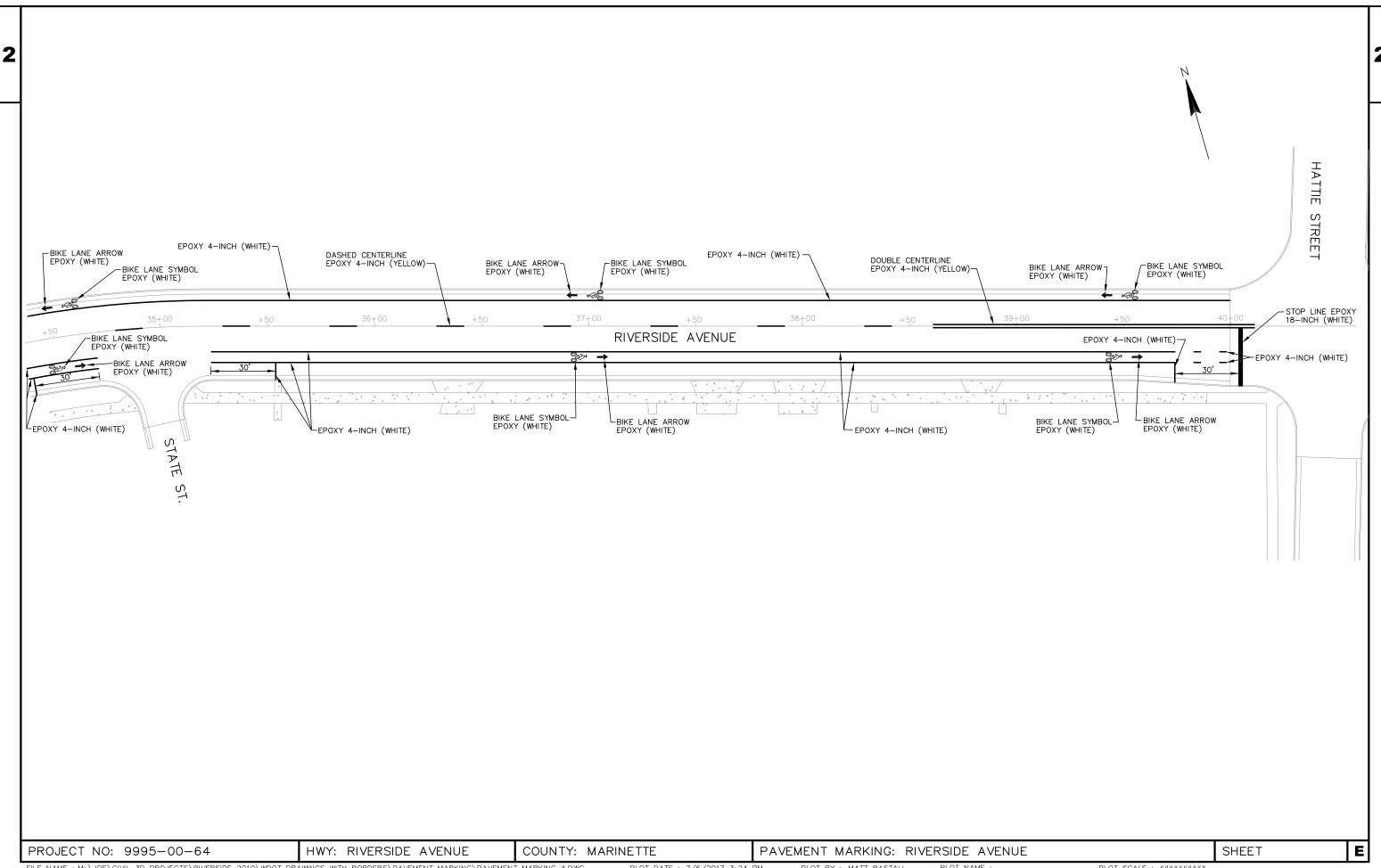


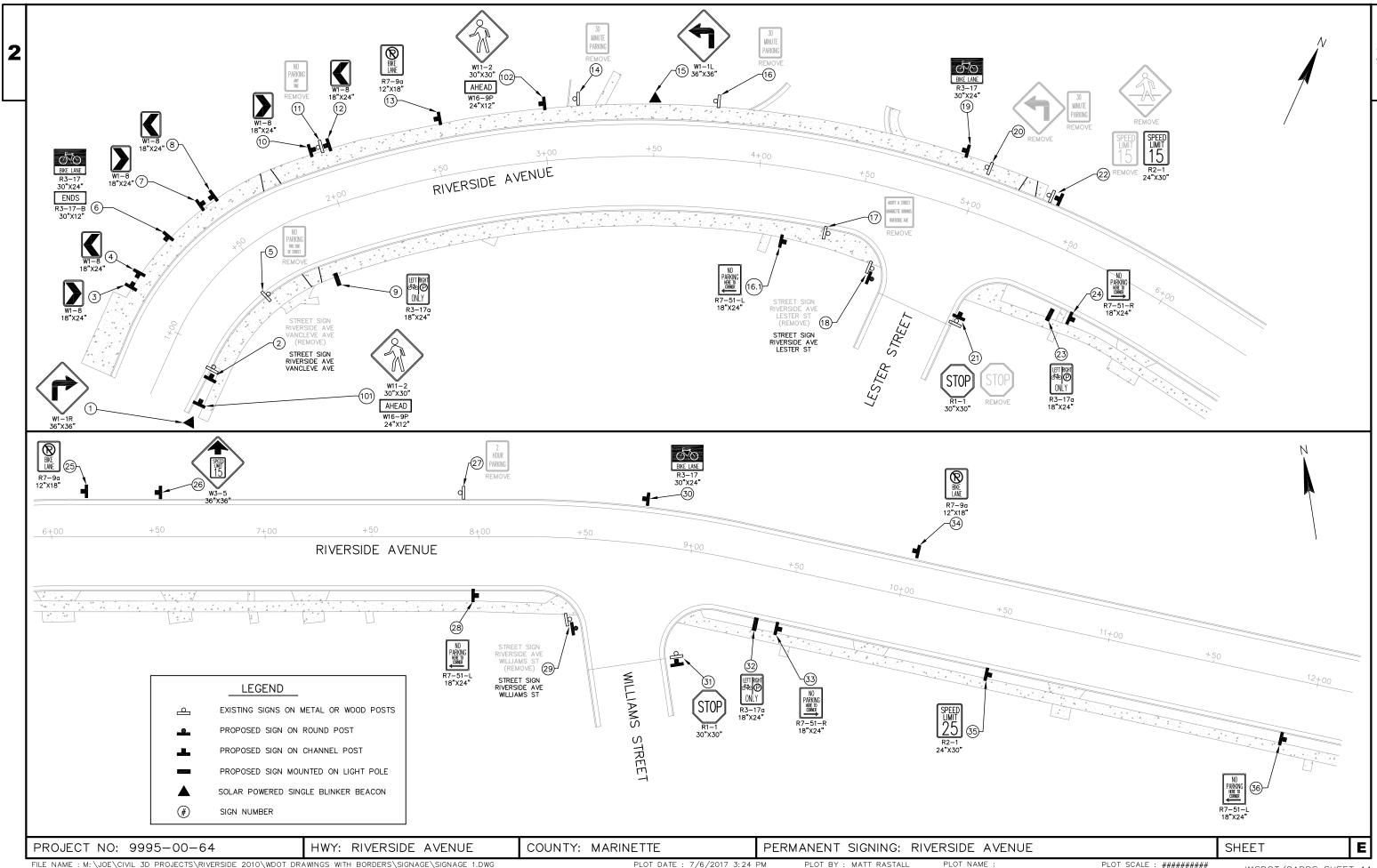


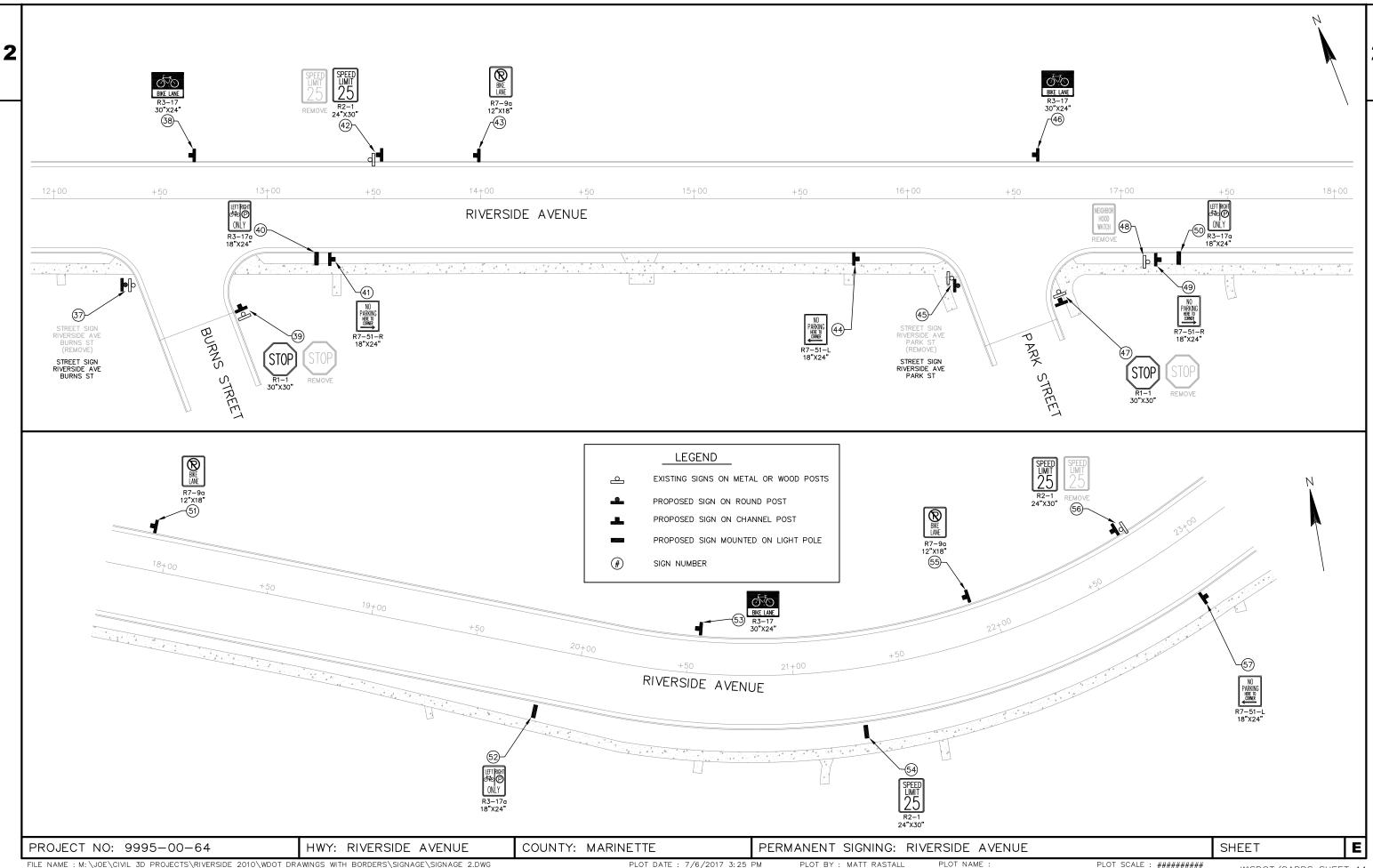


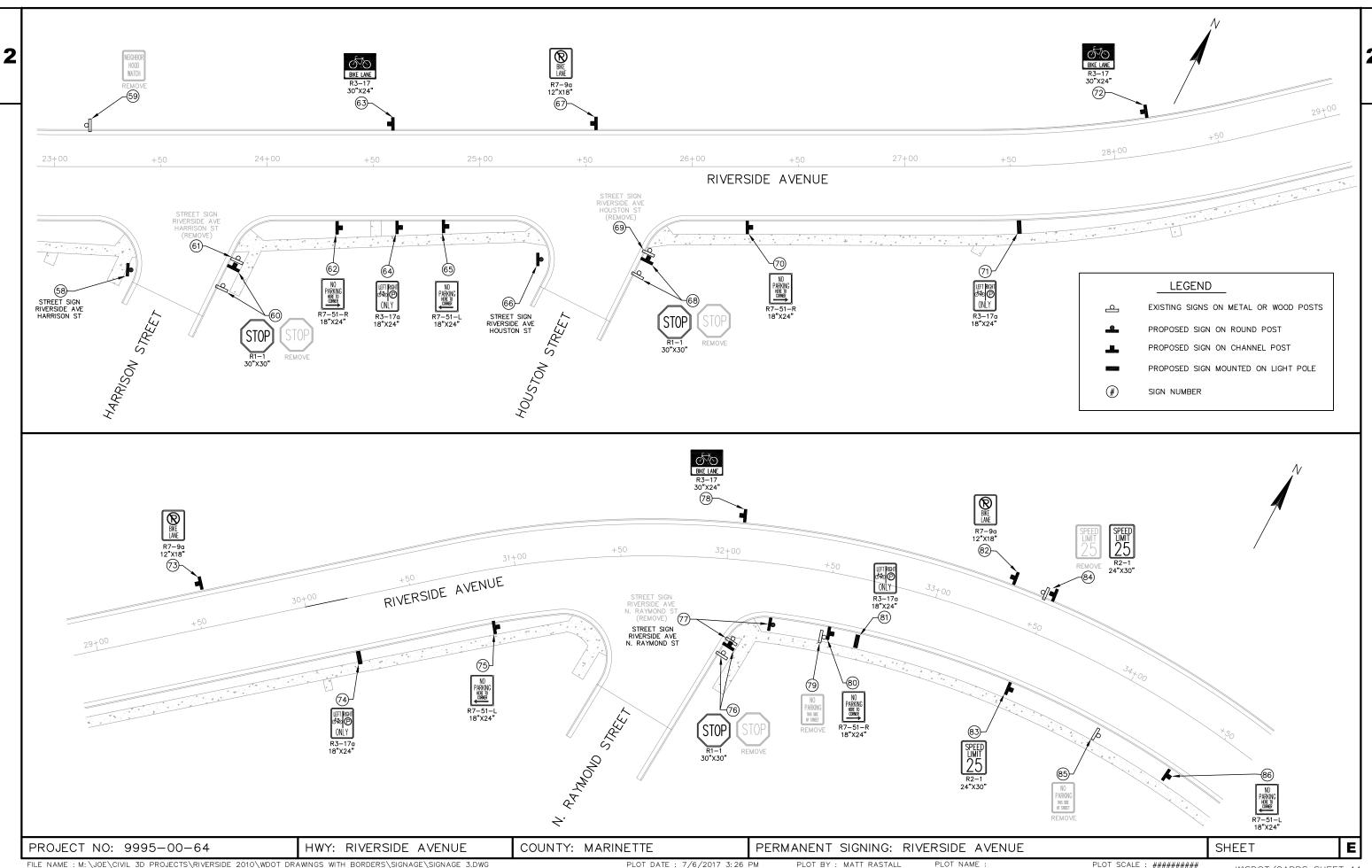


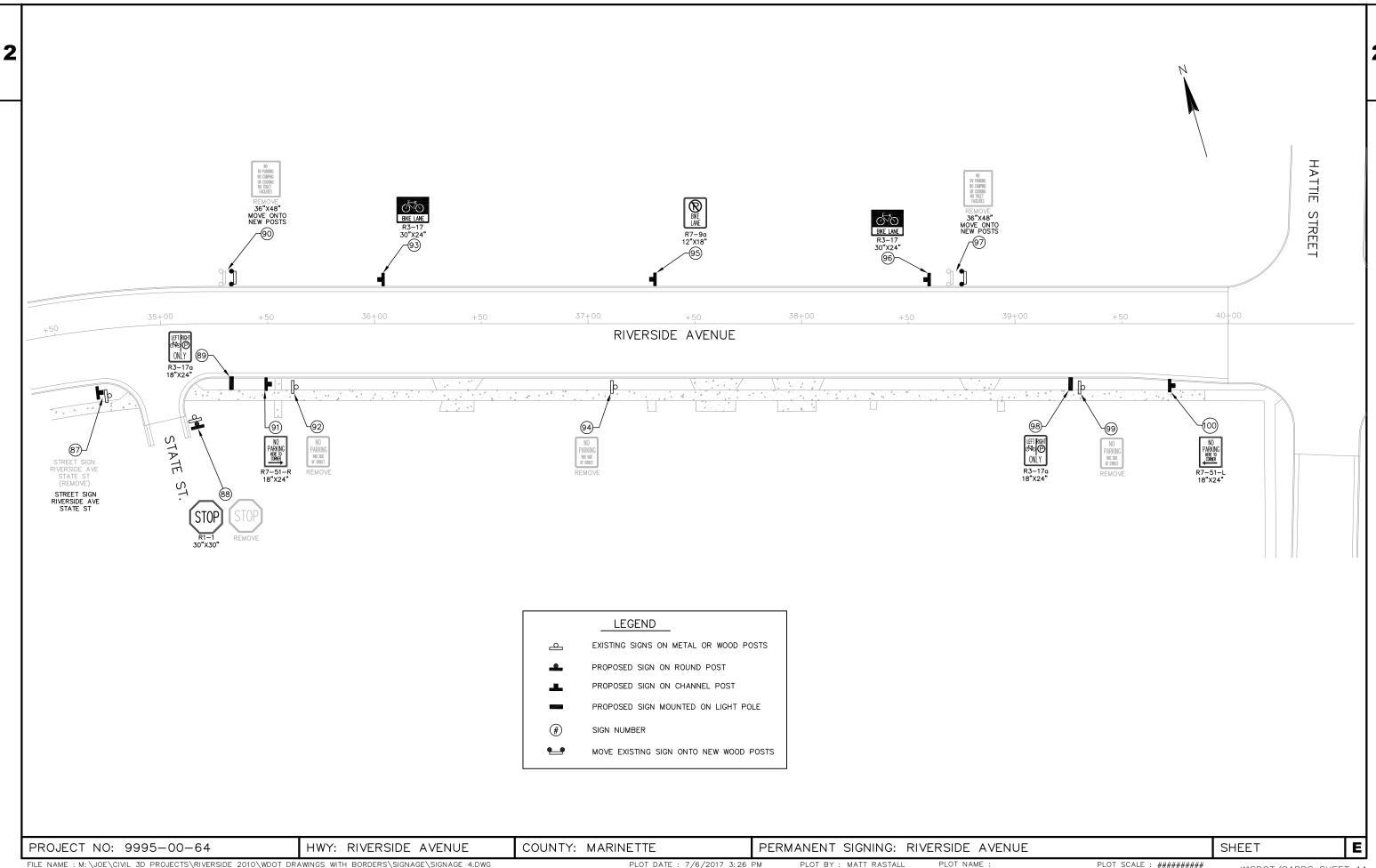


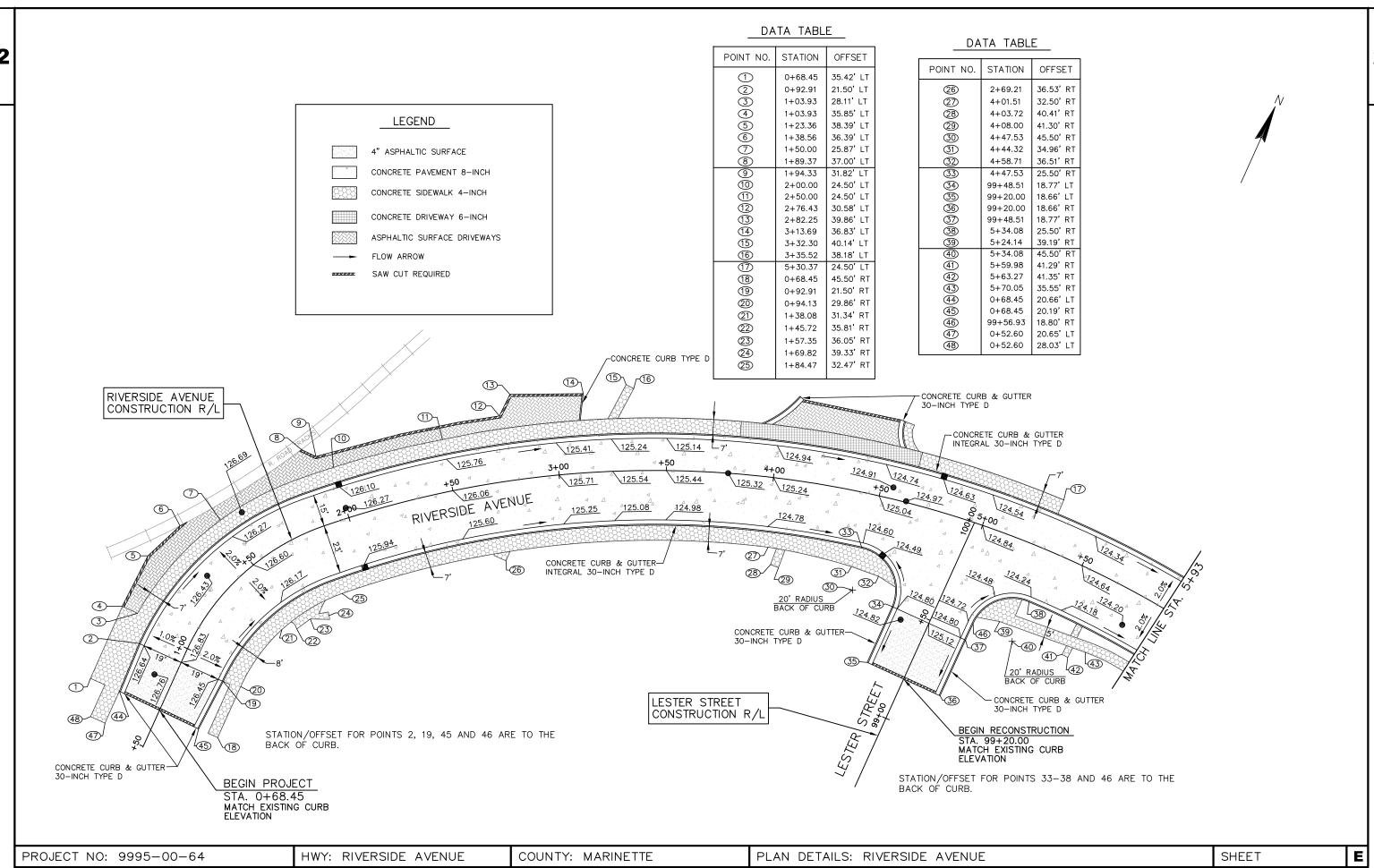












FILE NAME : M: \JOE\CIVIL 3D PROJECTS\RIVERSIDE 2010\WDOT DRAWINGS WITH BORDERS\PLAN DETAILS\PLAN DETAIL 2.DWG

PROJECT NO: 9995-00-64

PLOT DATE: 10/27/2017 2:29 PM

PLOT BY: MATT RASTALL

PLAN DETAILS: RIVERSIDE AVENUE

PLOT SCALE : ########

WISDOT/CADDS SHEET 44

E

COUNTY: MARINETTE

HWY: RIVERSIDE AVENUE

SHEET



POINT NO. STATION 12+01.50 2 12+05.50 34 12+20.04 12+20.04 25.50' RT 9999 LEGEND 299+66.03 18.86' LT 299+39.76 18.74' LT 299+00.00 4" ASPHALTIC SURFACE 299+00.00 9 299+39.76 18.66' RT CONCRETE PAVEMENT 8-INCH 10 12+99.95 10 (12) 12+99.95 25.50' RT CONCRETE SIDEWALK 4-INCH 40.34' RT 13+30.51 <u>13</u> 13+34.51 40.34' RT CONCRETE DRIVEWAY 6-INCH 14) 14+67.94 (15) 14+69.45 ASPHALTIC SURFACE DRIVEWAYS 16 14+81.10 40.02' RT FLOW ARROW 17 14+81.10 30.02' RT 18) 15+70.17 SAW CUT REQUIRED 19 15+74.63 40.28' RT 20 16+05.80 45.50' RT

DATA TABLE

OFFSET

40.38' R1

40.29' RT

45.50' RT

18.74' LT

18.74' RT

43.50' RT

30.03' RT

40.05' RT

40.28' RT

25.50' RT

18.23' LT

16+05.80

399+65.80

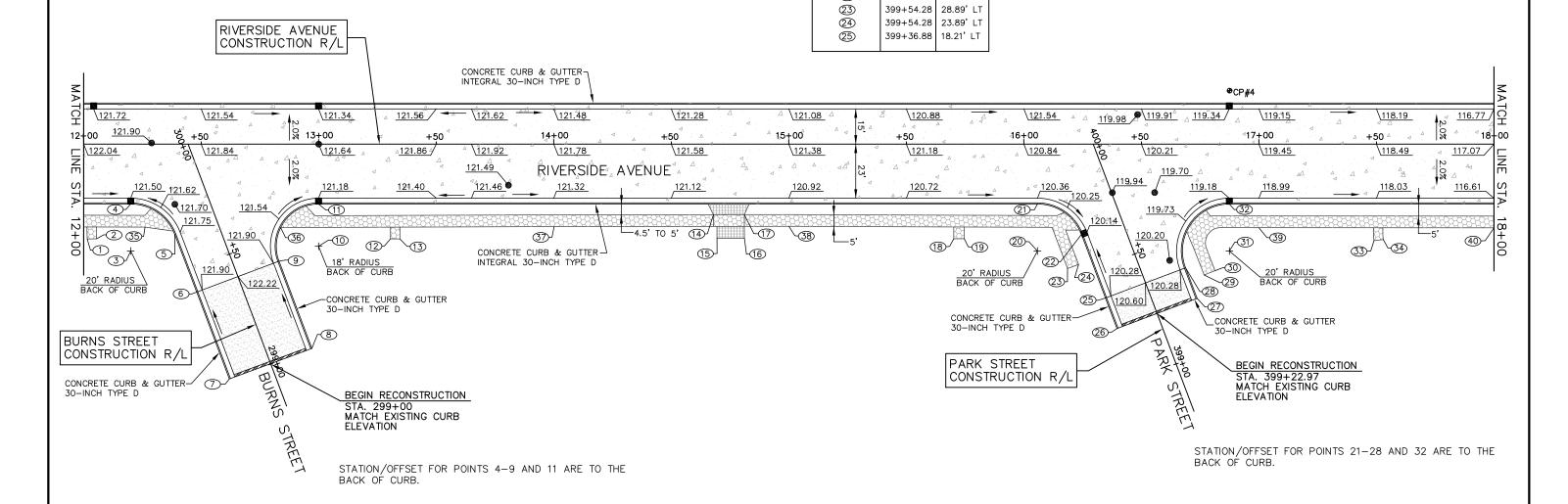
POINT NO. STATION OFFSET 399+22.97 18.21' LT 27) 399+22.97 18.21' RT 28) 399+36.88 18.21' RT 29 24.51' RT 399+31.28 (30) 399+31.28 29.51' RT 31) 16+87.47 45.50' RT 32) 16+87.47 25.50' RT 33 41.11' RT 17 + 48.9334) 17+52.90 40.63' RT (35) 12+26.12 35.33' RT 12+83.79 35.54' RT 37 35.11' RT 14+00.00 38 34.99' RT 15+00.00 39) 17+00.00 | 35.58' RT

18+00.00

35.64' RT

(40)

DATA TABLE



21)

22

HWY: RIVERSIDE AVENUE

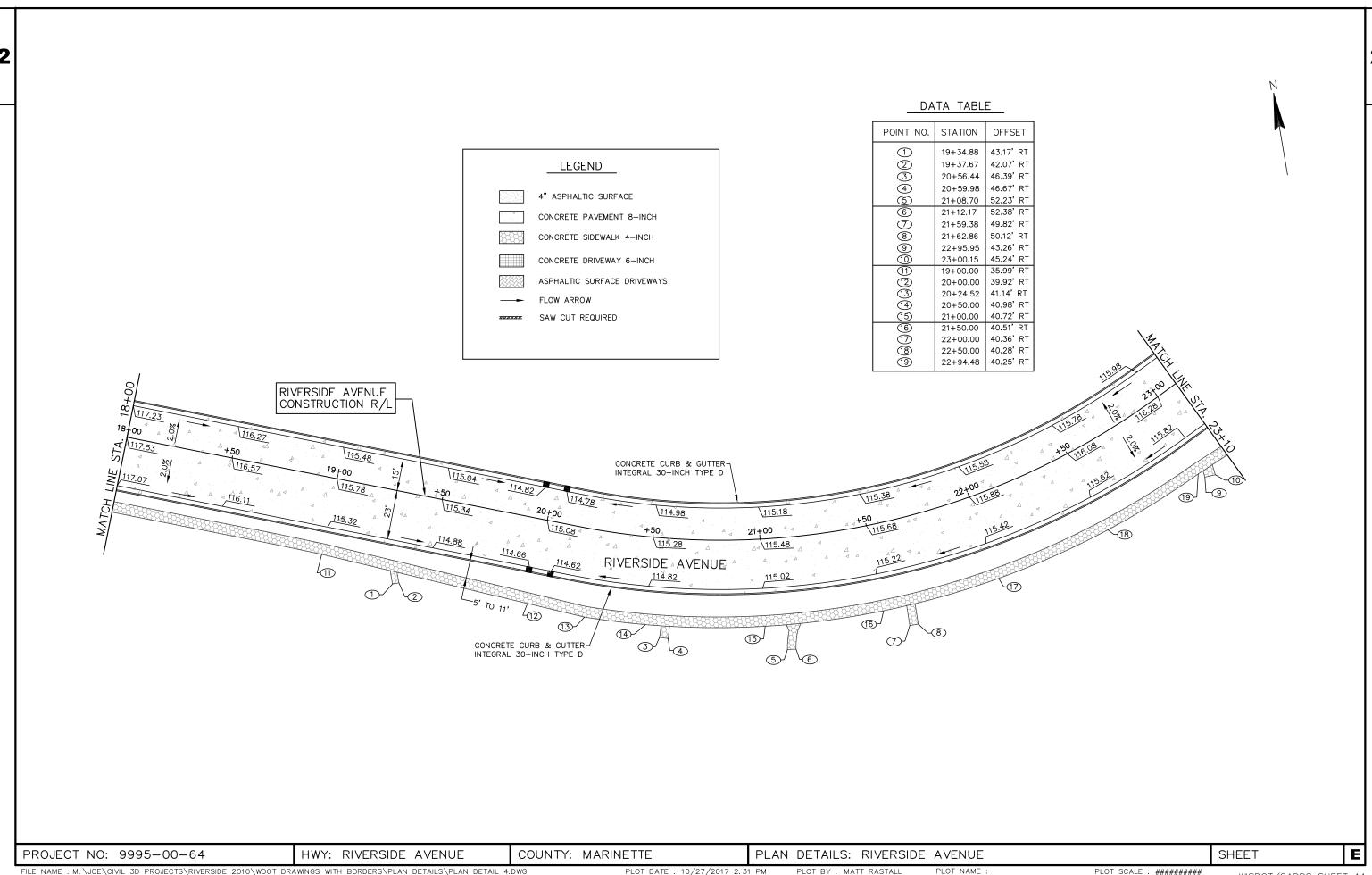
PROJECT NO: 9995-00-64

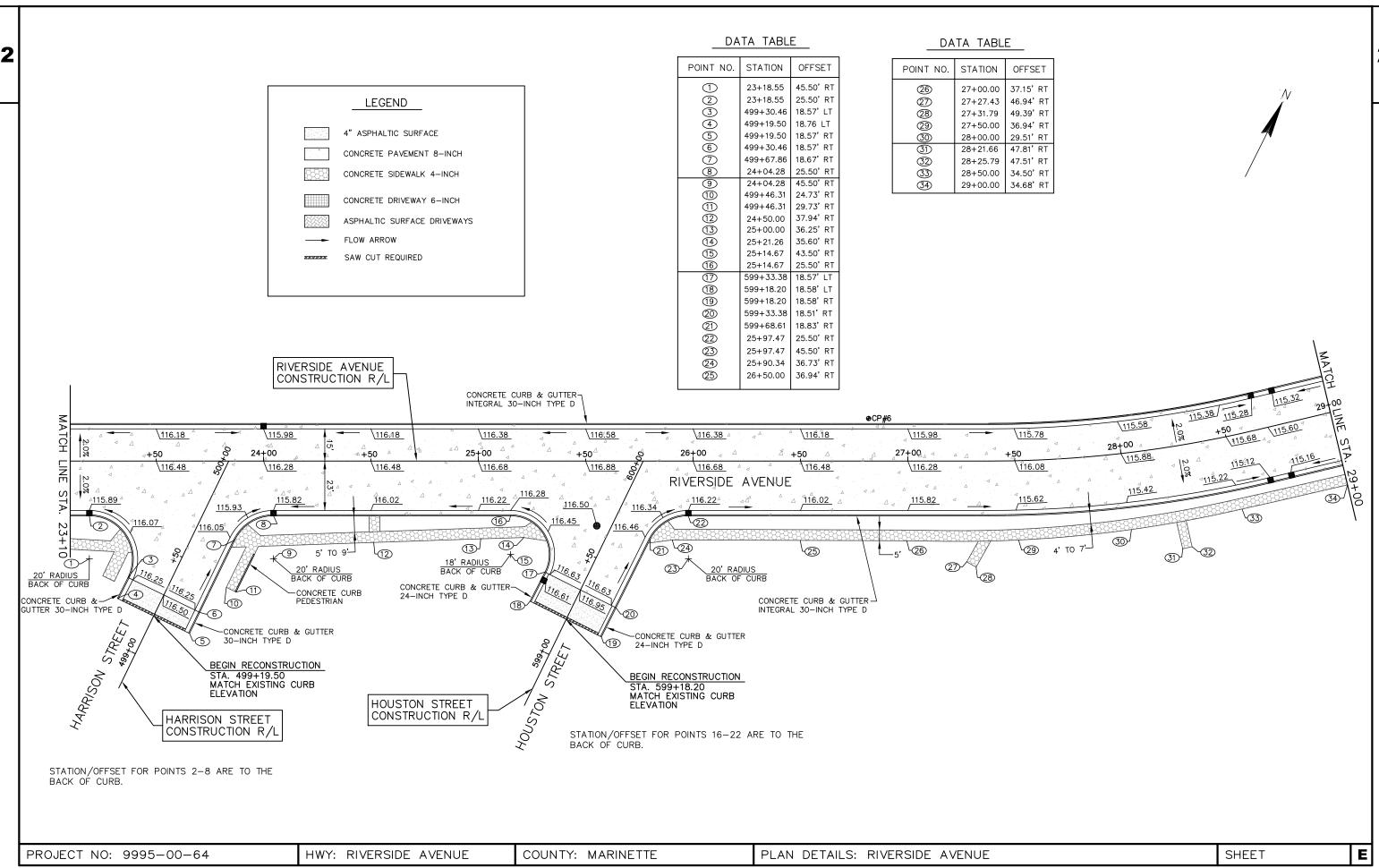
COUNTY: MARINETTE

PLAN DETAILS: RIVERSIDE AVENUE

SHEET

E





2

4" ASPHALTIC SURFACE

CONCRETE PAVEMENT 8-INCH

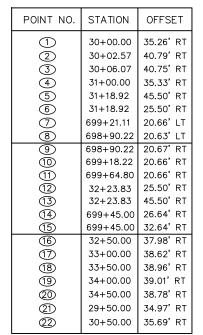
CONCRETE DRIVEWAY 6-INCH

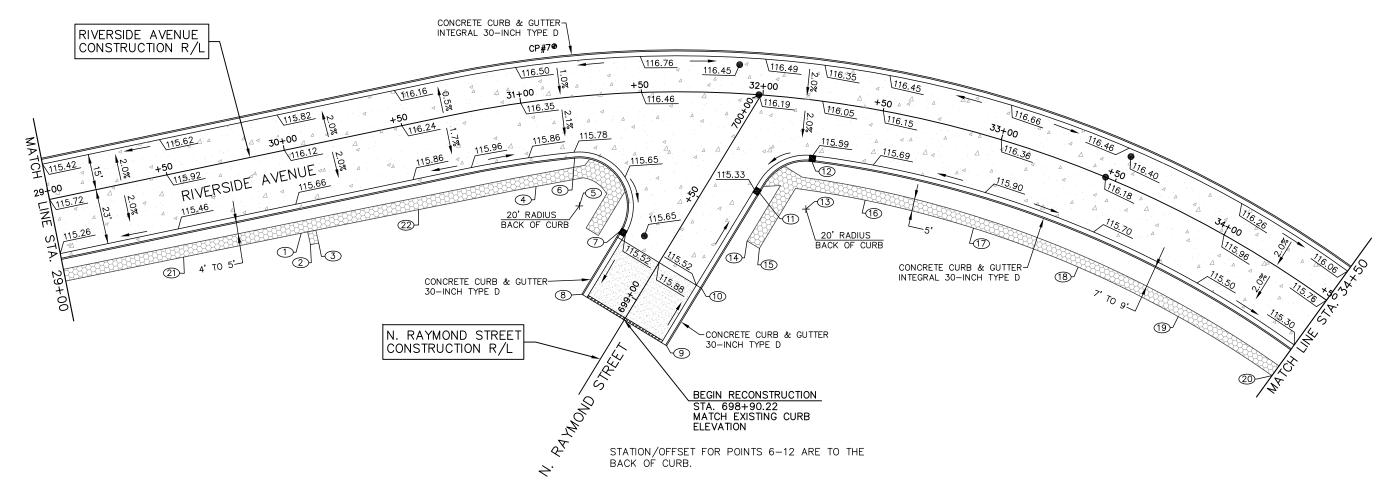
CONCRETE SIDEWALK 4-INCH

ASPHALTIC SURFACE DRIVEWAYS

FLOW ARROW

SAW CUT REQUIRED





FILE NAME : M:\JOE\CIVIL 3D PROJECTS\RIVERSIDE 2010\WDOT DRAWINGS WITH BORDERS\PLAN DETAILS\PLAN DETAIL 6.DWG LAYOUT NAME - ####

HWY: RIVERSIDE AVENUE

PROJECT NO: 9995-00-64

PLOT DATE: 10/27/2017 2:33 PM

PLOT BY : MATT RASTALL

PLAN DETAILS: RIVERSIDE AVENUE

PLOT SCALE : #########

WISDOT/CADDS SHEET 44

SHEET

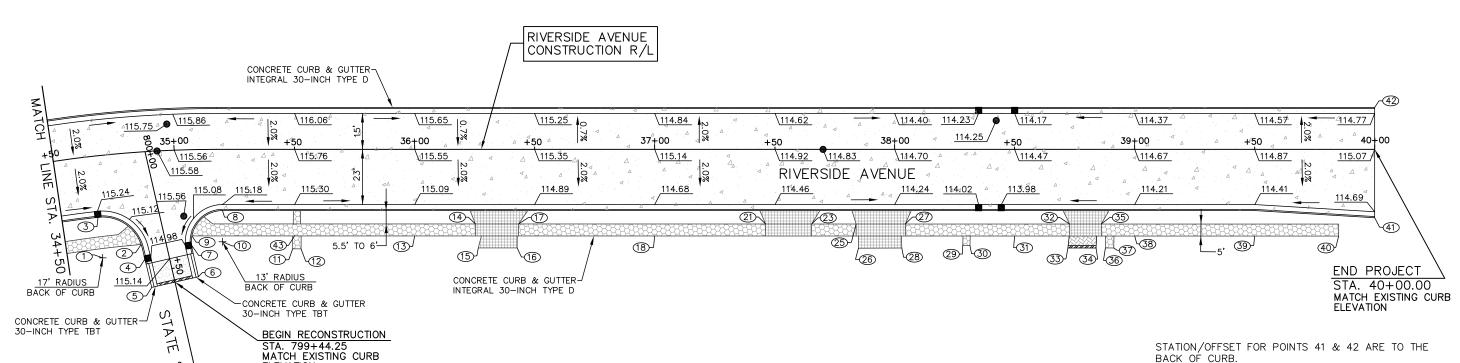
E

COUNTY: MARINETTE

LEGEND 4" ASPHALTIC SURFACE CONCRETE PAVEMENT 8-INCH CONCRETE SIDEWALK 4-INCH CONCRETE DRIVEWAY 6-INCH ASPHALTIC SURFACE DRIVEWAYS FLOW ARROW SAW CUT REQUIRED

POINT NO.	STATION	OFFSET
1	34+69.00	42.50' RT
2	34+83.39	38.45' RT
3	34+69.00	25.50' RT
4	799+56.43	10.07' LT
(5)	799+44.25	9.97' LT
6	799+44.25	10.03' RT
7	799+57.75	10.12' RT
8	35+23.86	25.50' RT
9	35+06.51	35.92' RT
10	35+23.86	38.50' RT
11)	35+49.18	41.43' RT
12	35+52.68	41.43' RT
13	36+00.00	36.06' RT
14	36+25.29	31.06' RT
<u>(15)</u>	36+26.48	41.06' RT
<u>16</u>	36+42.70	41.06' RT
17	36+43.31	31.06' RT
18)	37+00.00	36.07' RT
21)	37+46.24	31.08' RT

POINT NO.	STATION	OFFSET
23	37+65.07	41.08' RT
<b>2</b> 5)	37+83.93	31.08' RT
26	37+84.89	41.19' RT
27)	38+02.97	41.08' RT
28)	38+04.43	31.08' RT
29	38+28.36	40.02' RT
30	38+31.36	40.09' RT
31)	38+50.00	36.09' RT
32	38+72.19	41.09' RT
33)	38+72.88	31.09' RT
34)	38+84.18	36.09' RT
35)	38+86.11	31.09' RT
<b>3</b> 6	38+87.78	41.04' RT
37	38+91.28	41.09' RT
38)	39+00.00	36.10' RT
39	39+50.00	36.10' RT
40	39+85.00	36.11' RT
<b>41</b> )	40+00.00	28.50' RT
<b>42</b>	40+00.00	17.50' LT
43)	35+50.00	36.05' RT



STATION/OFFSET FOR POINTS 41 & 42 ARE TO THE BACK OF CURB.

STATION/OFFSET FOR POINTS 3-8 ARE TO THE BACK OF CURB.

57.

PROJECT NO: 9995-00-64

HWY: RIVERSIDE AVENUE

COUNTY: MARINETTE

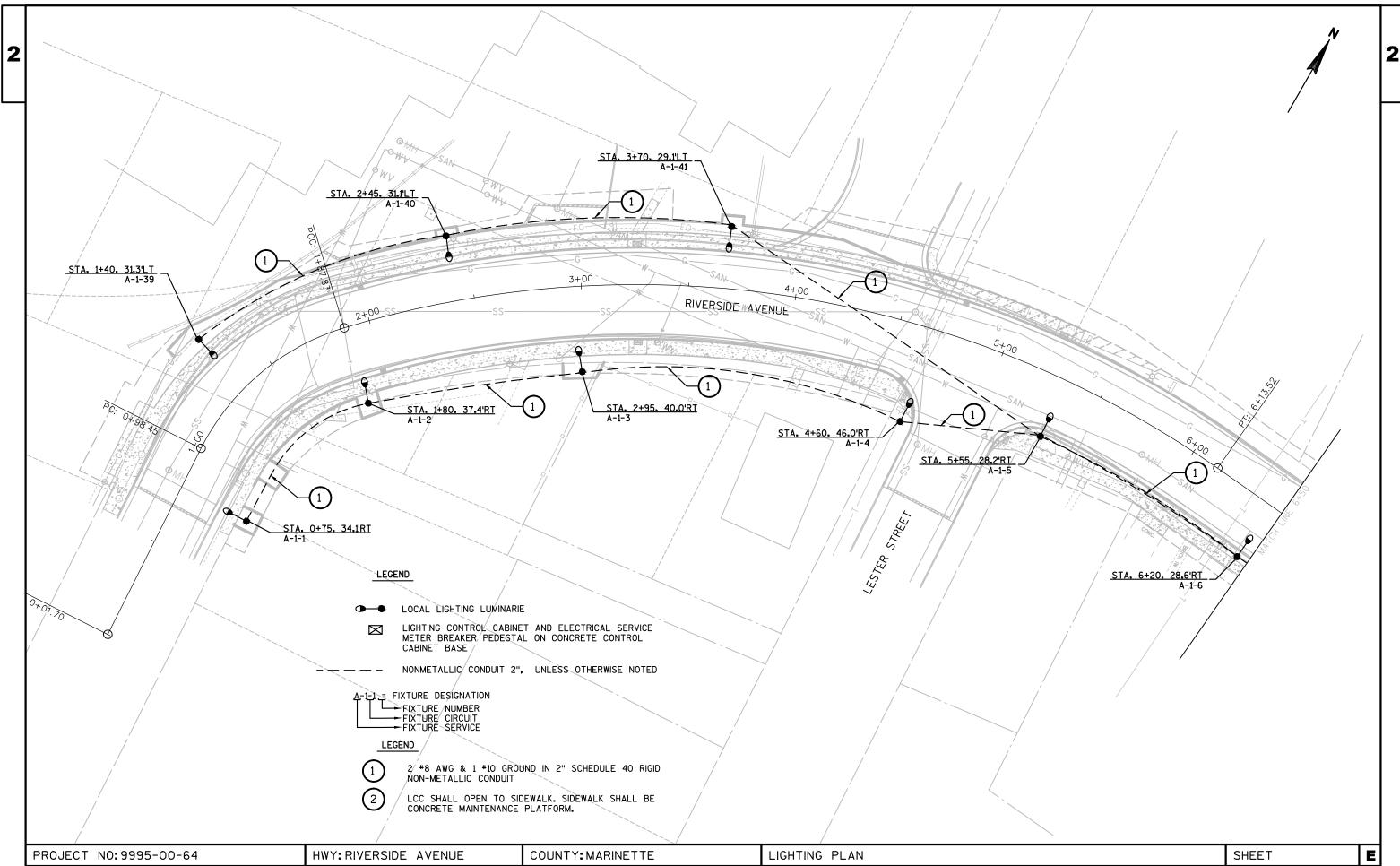
PLAN DETAILS: RIVERSIDE AVENUE

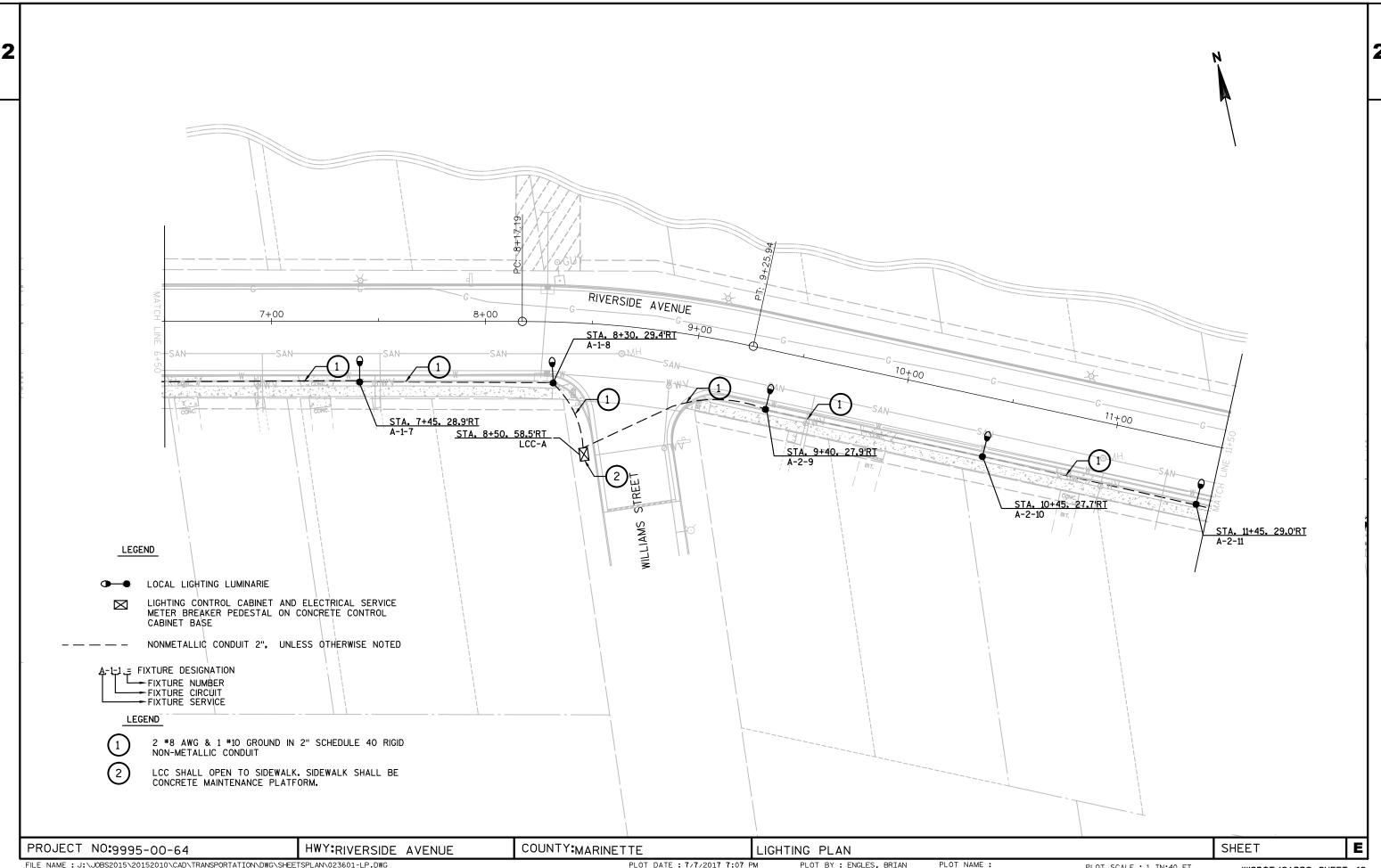
SHEET

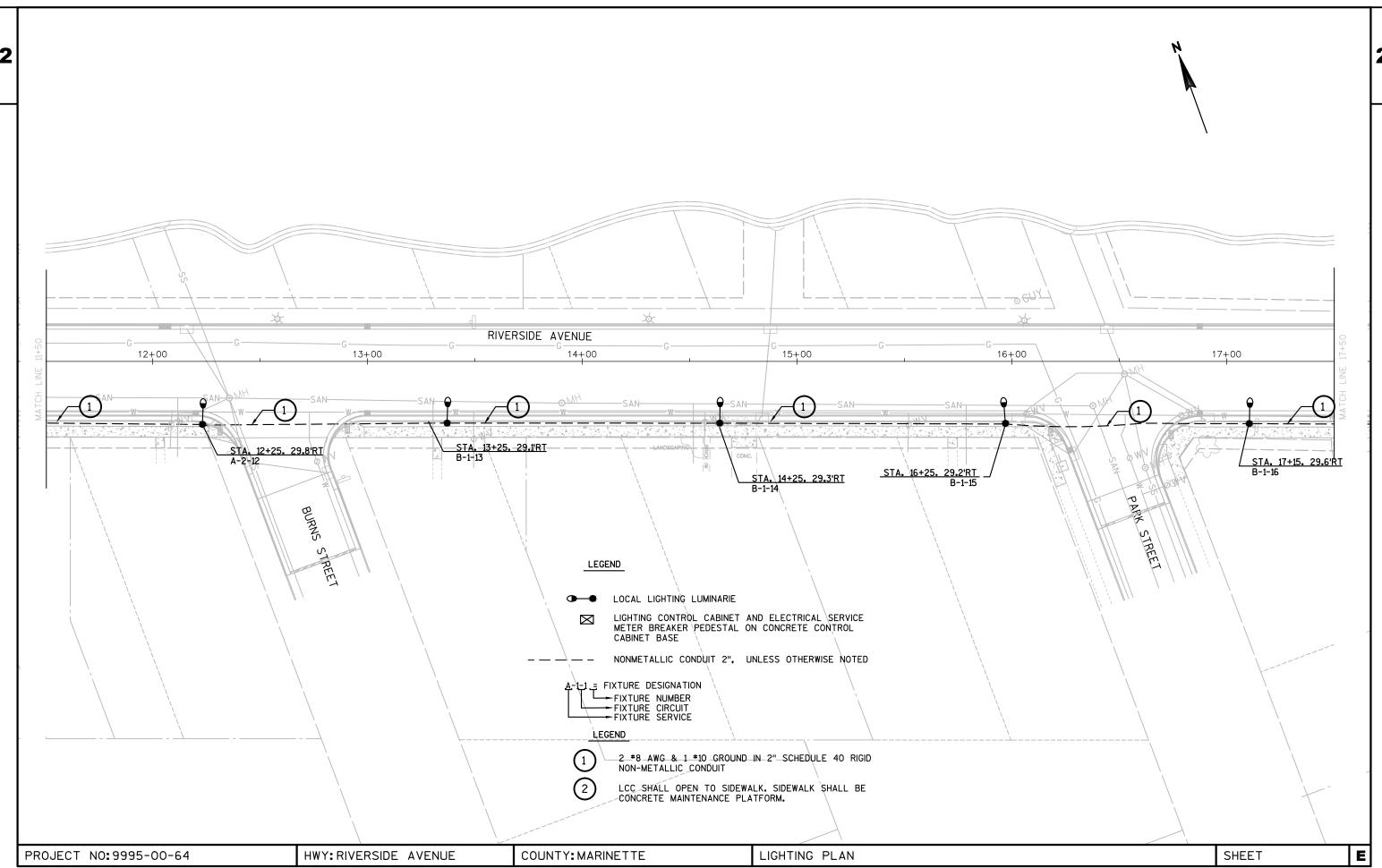
ELEVATION

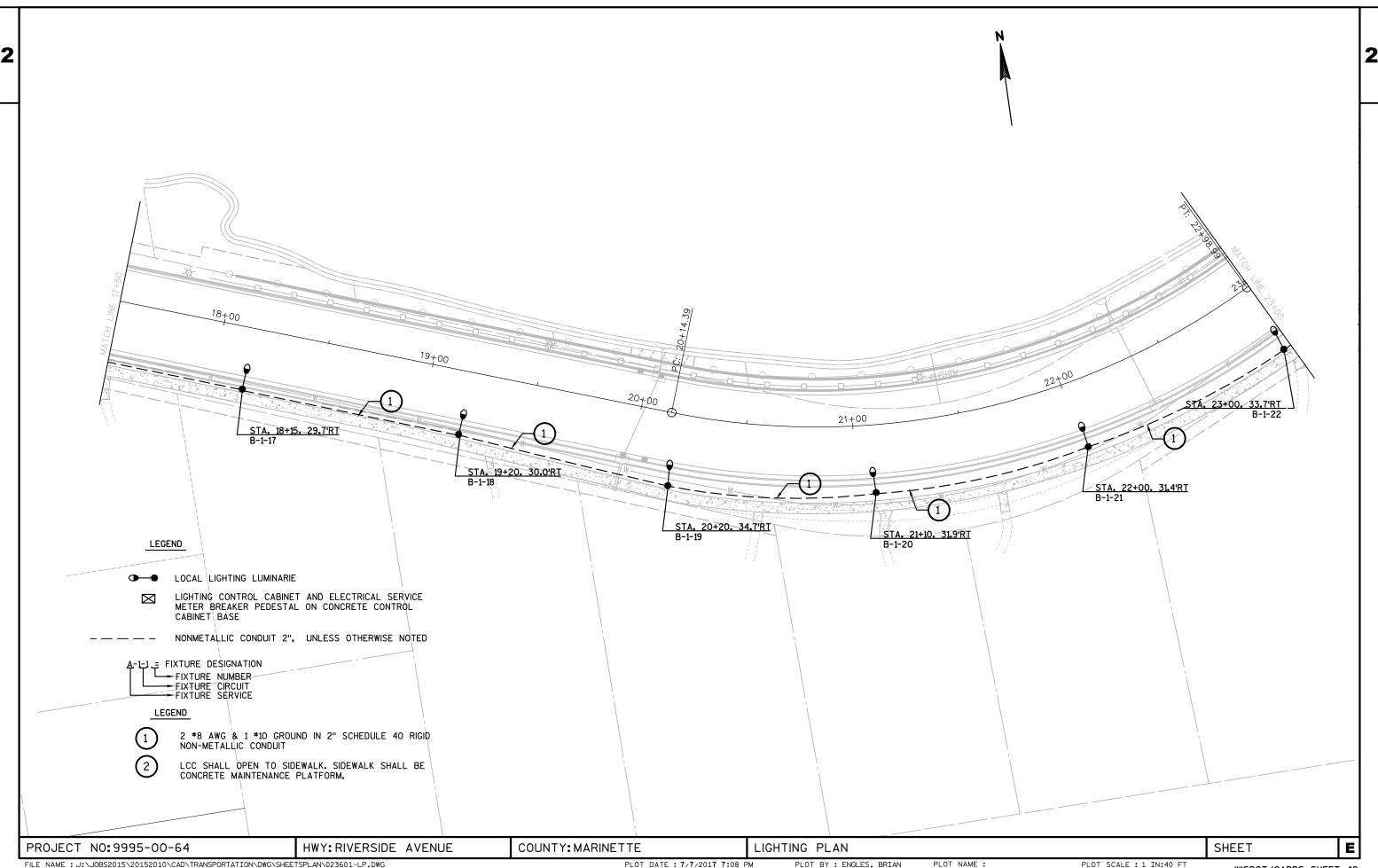
STATE STREET CONSTRUCTION R/L

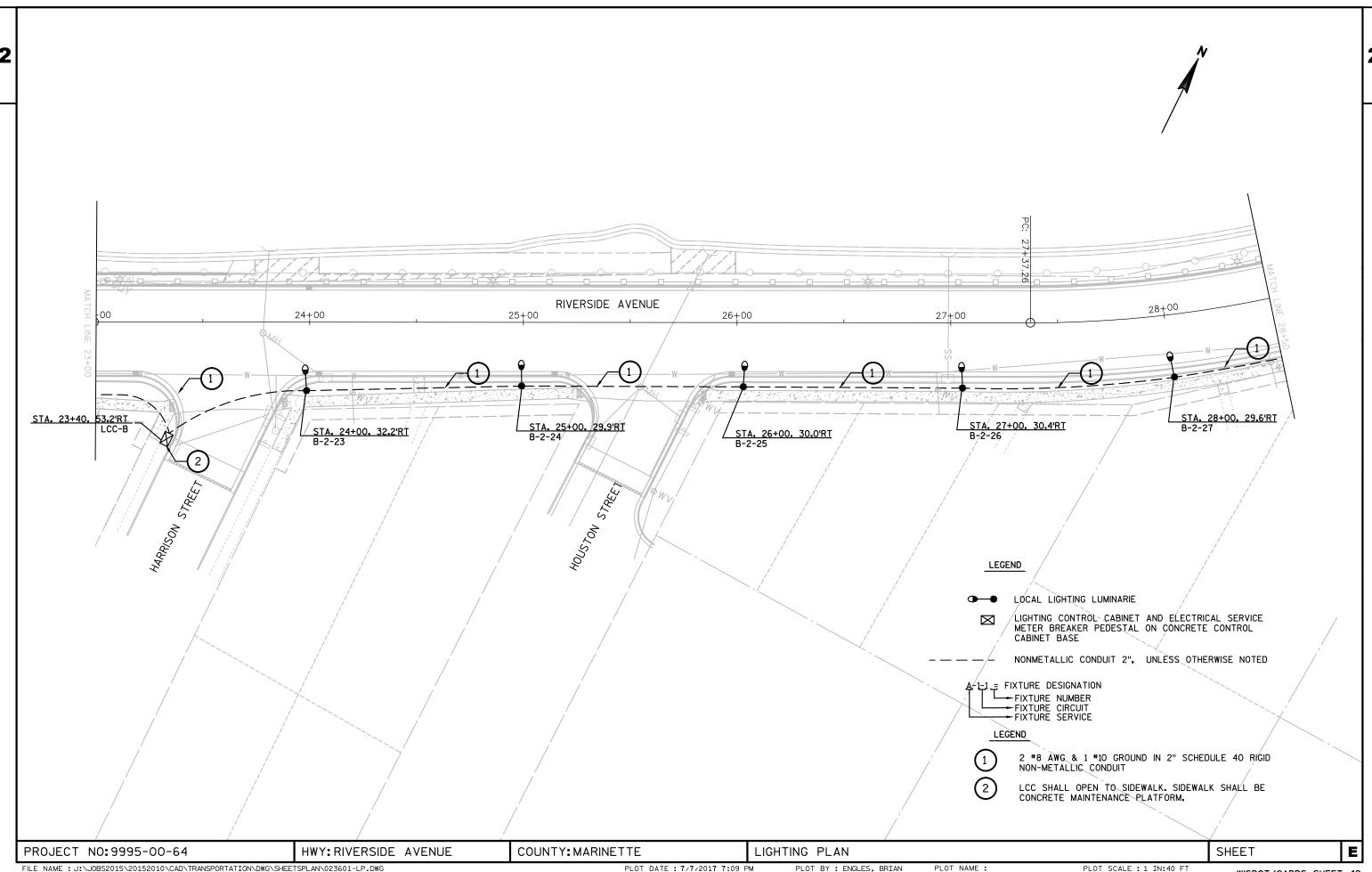
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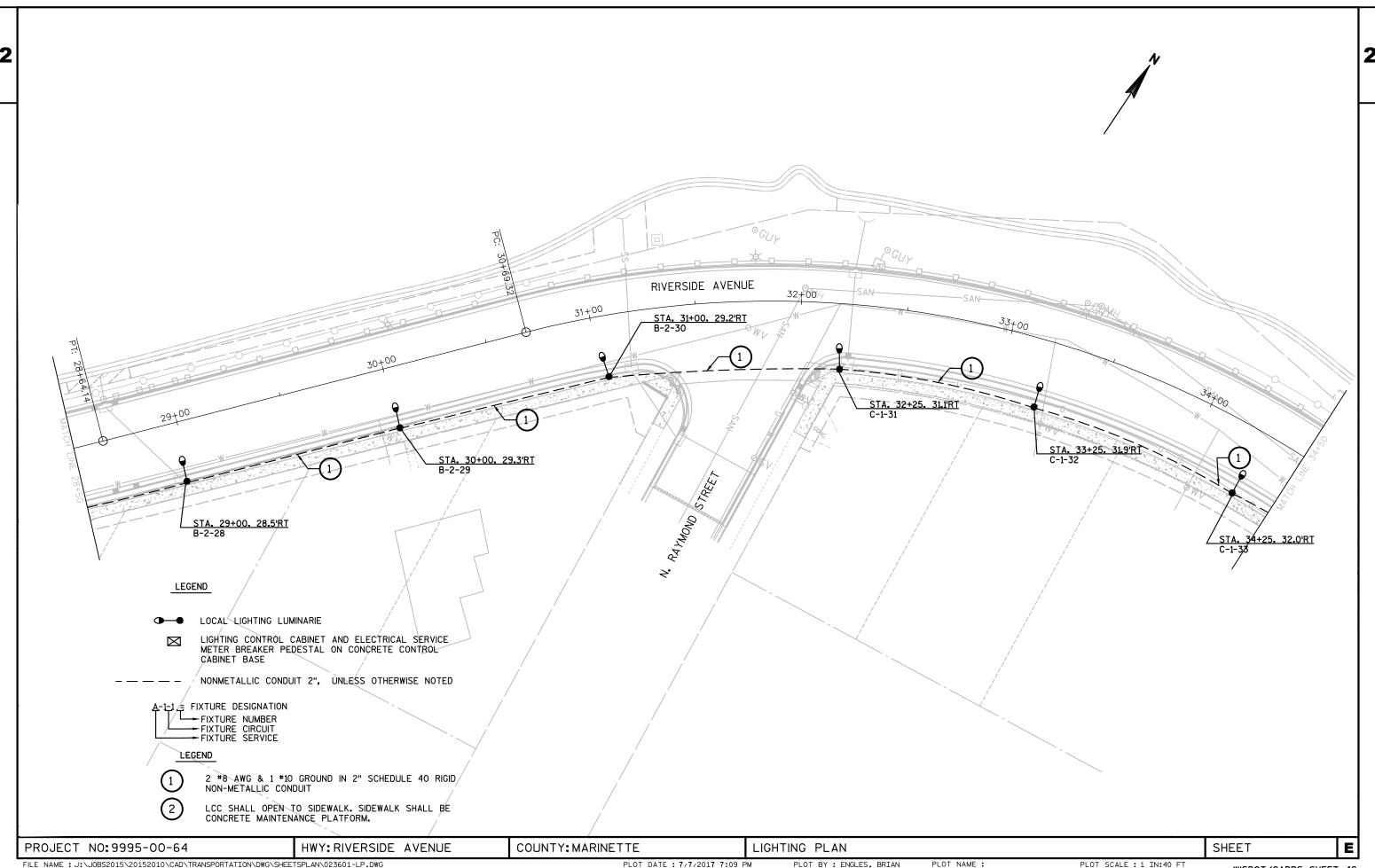


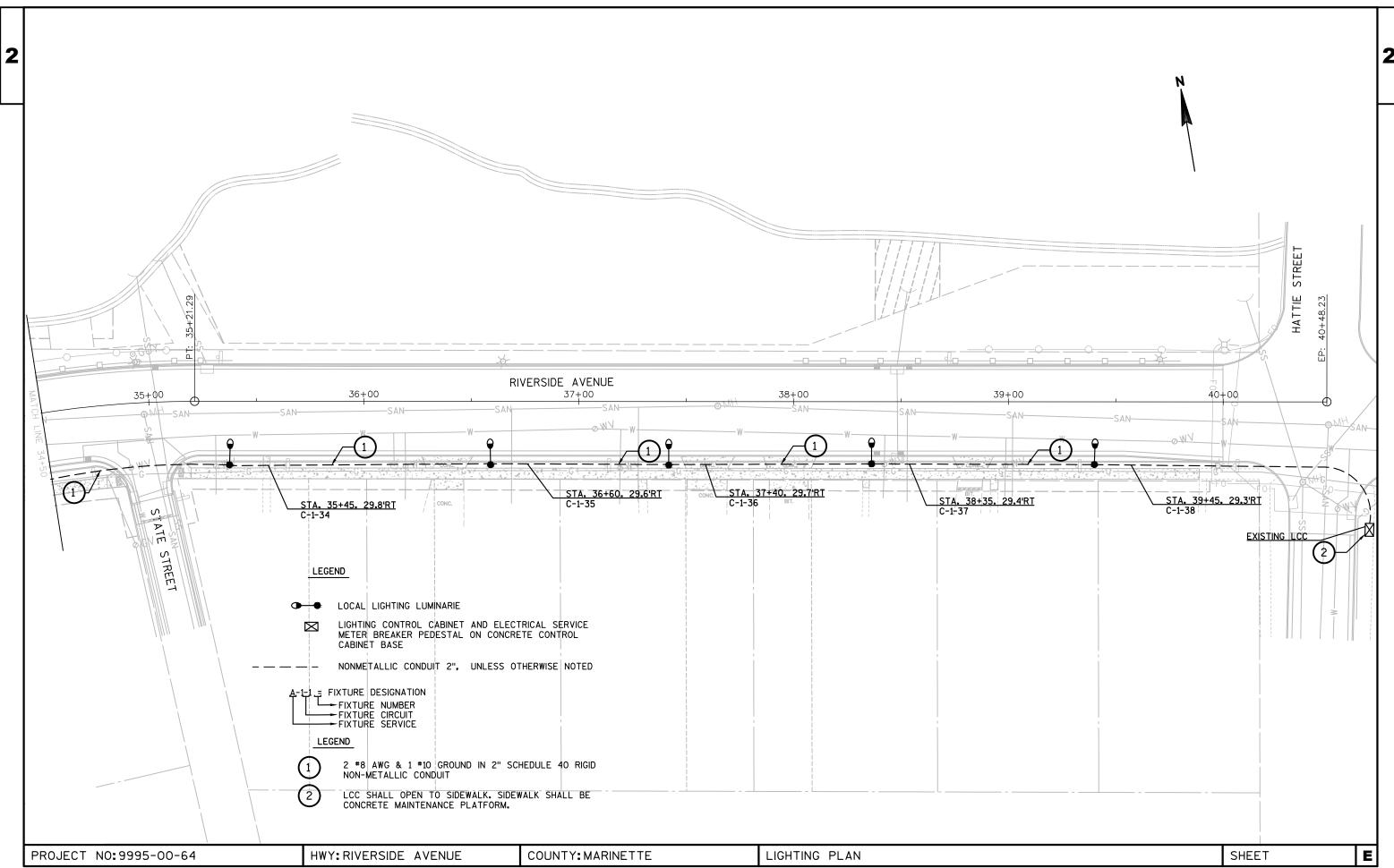




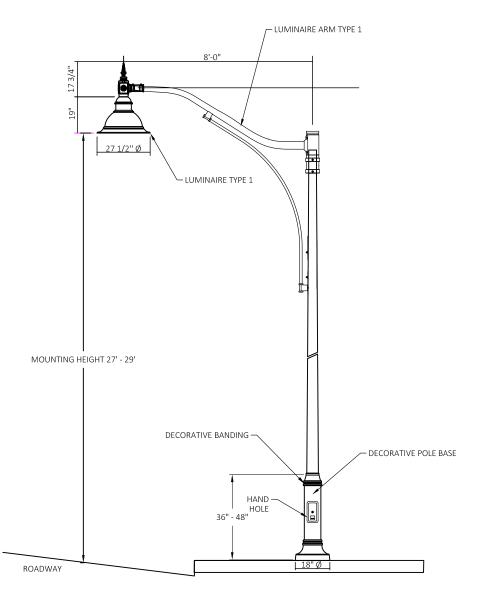








2



## **DECORATIVE LIGHTING UNIT**

PROJECT NO: 9995-00-64

HWY: RIVERSIDE AVENUE

COUNTY: MARINETTE

CONSTRUCTION DETAIL

SHEET

PLOT SCALE : 1 IN:50 FT WISDOT /CA

Page 1

					9995-00-64
Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	145.000	145.000
0004	201.0220	Grubbing	ID	145.000	145.000
0006	204.0100	Removing Pavement	SY	19,770.000	19,770.000
0008	204.0110	Removing Asphaltic Surface	SY	181.000	181.000
0010	204.0150	Removing Curb & Gutter	LF	514.000	514.000
0012	204.0155	Removing Concrete Sidewalk	SY	2,332.000	2,332.000
0014	204.0165	Removing Guardrail	LF	1,667.000	1,667.000
0016	204.0210	Removing Manholes	EACH	10.000	10.000
0018	204.0215	Removing Catch Basins	EACH	34.000	34.000
0020	204.0245	Removing Storm Sewer (size) 01. 48-Inch	LF	52.000	52.000
0022	204.0245	Removing Storm Sewer (size) 02. 36-Inch	LF	50.000	50.000
0024	204.0245	Removing Storm Sewer (size) 03. 24-inch	LF	79.000	79.000
0024	204.0245	Removing Storm Sewer (size) 04. 21-Inch	LF	15.000	15.000
0028	204.0245	Removing Storm Sewer (size) 05. 18-Inch	LF	64.000	64.000
0030	204.0245	Removing Storm Sewer (size) 06. 15-Inch	LF	77.000	77.000
0030	204.0245	Removing Storm Sewer (size) 07. 12-Inch	LF	1,126.000	1,126.000
0032	204.0245	Removing Storm Sewer (size) 08. 8-Inch	LF	242.000	242.000
0034	204.0243 204.0291.S		CY	22.000	22.000
0038	204.0291.S 204.9090.S	•	LF	63.000	63.000
		Temporary Precast Left In Place			
0040	204.9090.S	Removing (item description) 02. Modular Block Retaining Wall	LF	12.000	12.000
0042	204.9105.S	Removing (item description) 01. Traffic Signal, Flashing Light at Sta 5+75	LS	1.000	1.000
0044	205.0100	Excavation Common	CY	16,207.000	16,207.000
0046	209.1100	Backfill Granular Grade 1	CY	5,526.000	5,526.000
0048	213.0100	Finishing Roadway (project) 01. 9995-00-64	EACH	1.000	1.000
0050	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	8,144.000	8,144.000
0052	415.0080	Concrete Pavement 8-Inch	SY	17,634.000	17,634.000
0054	415.4100	Concrete Pavement Joint Filling	SY	19,828.000	19,828.000
0056		Concrete Pavement Joint Layout	LS	1.000	1.000
0058	416.0160	Concrete Driveway 6-Inch	SY	305.000	305.000
0060	465.0105	Asphaltic Surface	TON	165.000	165.000
0062	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	51.000	51.000
0064	520.8000	Concrete Collars for Pipe	EACH	13.000	13.000
0066	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete	EACH	2.000	2.000
		12-Inch			
0068	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	3.000	3.000
0070	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000

					9995-00-64
Line	Item	Item Description	Unit	Total	Qty
0136	624.0100	Water	MGAL	85.000	85.000
0138	625.0100	Topsoil	SY	7,306.000	7,306.000
0140	628.1504	Silt Fence	LF	2,707.000	2,707.000
0142	628.1520	Silt Fence Maintenance	LF	2,707.000	2,707.000
0144	628.1905	Mobilizations Erosion Control	EACH	11.000	11.000
0146	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0148	628.2002	Erosion Mat Class I Type A	SY	491.000	491.000
0150	628.6005	Turbidity Barriers	SY	641.000	641.000
0150	628.7005	•	EACH	38.000	38.000
		Inlet Protection Type A	EACH		
0154	628.7015	Inlet Protection Type C		57.000	57.000
0156	628.7020	Inlet Protection Type D	EACH	27.000	27.000
0158	628.7570	Rock Bags	EACH	85.000	85.000
0160	629.0210	Fertilizer Type B	CWT	0.300	0.300
0162	630.0140	Seeding Mixture No. 40	LB	9.000	9.000
0164	630.0200	Seeding Temporary	LB	198.000	198.000
0166	637.2210	Signs Type II Reflective H	SF	324.000	324.000
0168	638.2102	Moving Signs Type II	EACH	2.000	2.000
0170	638.2602	Removing Signs Type II	EACH	38.000	38.000
0172	638.3000	Removing Small Sign Supports	EACH	41.000	41.000
0174	642.5201	Field Office Type C	EACH	1.000	1.000
0176	643.0300	Traffic Control Drums	DAY	1,875.000	1,875.000
0178	643.0410	Traffic Control Barricades Type II	DAY	1,905.000	1,905.000
0180	643.0420	Traffic Control Barricades Type III	DAY	5,700.000	5,700.000
0182	643.0705	Traffic Control Warning Lights Type A	DAY	13,230.000	13,230.000
0184	643.0900	Traffic Control Signs	DAY	14,110.000	14,110.000
0186	643.5000	Traffic Control	EACH	1.000	1.000
0188	645.0130	Geotextile Type R	SY	285.000	285.000
0190	645.0135	Geotextile Type SR	SY	7,312.000	7,312.000
0192	646.1020	Marking Line Epoxy 4-Inch	LF	12,694.000	12,694.000
0194	646.5020	Marking Arrow Epoxy	EACH	31.000	31.000
0196 0198	646.5120 646.5220	Marking Word Epoxy Marking Symbol Epoxy	EACH EACH	3.000 31.000	3.000 31.000
0200	646.6120	Marking Stop Line Epoxy 18-Inch	LF	26.000	26.000
0202	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	86.000	86.000
0204	650.4000	Construction Staking Storm Sewer	EACH	58.000	58.000
0206	650.4500	Construction Staking Subgrade	LF	3,932.000	3,932.000
0208	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	441.000	441.000
0210	650.7000	Construction Staking Concrete Pavement	LF	3,932.000	3,932.000
0212	650.8500	Construction Staking Electrical Installations (project) 01. 9995-00-64	LS	1.000	1.000

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Line   Nem   Nem						9995-00-64	
0214         650.9000         Construction Staking Curb Ramps         EACH         2 0.000         20 000           0216         650.9910         Construction Staking Supplemental Control (project) 01.         LS         1,000         1,000           0218         650.9920         Construction Staking Stope Stakes         LF         3,932.000         3,932.000           0220         652.0225         Conduit Rigid Normetallic Schedule 40 2-Inch         LF         4,865.000         4,865.000           0222         654.0101         Concrete Bases Type 1         EACH         41,000         4,000           0226         655.0610         Electrical Wire Lighting 12 AWG         LF         4,885.000         4,885.000           0230         655.0620         Electrical Wire Lighting 10 AWG         LF         4,885.000         4,885.000           0230         650.020         Electrical Service Meter Bresker Pedestal (location) 01.         LS         1,000         1,000           0232         650.020         Electrical Service Meter Bresker Pedestal (location) 02.         LS         1,000         1,000           0233         650.020         Electrical Service Meter Bresker Pedestal (location) 02.         LS         1,000         1,000           0234         650.020         Sawing Concret	Line	ltem	Item Description	Unit	Total	Qtv	
6216         650,9910         Construction Staking Supplemental Control (project) 01. LS         1.000           0218         650,9920         Construction Staking Slope Stakes         LF         3,932,000         3,932,000           0220         652,0225         Conduit Right Normachills Schedule 40 2-Inch         LF         4,685,000         4,685,000           0222         654,0101         Concrete Bases Type 1         EACH         41,000         41,000           0226         655,0015         Electrical Wire Lighting 12 AWG         LF         3,690,000         3,980,000           0228         655,0015         Electrical Wire Lighting 19 AWG         LF         4,685,000         4,985,000           0230         655,0020         Electrical Wire Lighting 19 AWG         LF         4,685,000         4,985,000           0232         656,020         Electrical Wire Lighting 18 AWG         LF         9,790,000         3,790,000           0233         656,020         Electrical Service Meter Breaker Pedestal (locallon) 02. LS         1,000         1,000           0240         15,000         Saving Asphalt         LF         \$21,000         3,670,00           0241         ASP, 1706         On-the-Job Training Apprentice at \$5,00HR         HRS         1,200,000         3,200,00			·				
9995-00-04 0218 650.9920 Construction Staking Slope Stakes							
0220         652,0225         Conduit Rigid Nonmelallic Schedule 40 2-Inch         LF         4,885,000         4,685,000           0224         654 0015         Concrete Control Cabinet Bases Type 9         EACH         41,000         41,000           0226         655,0615         Electrical Wire Lighting 10 AWG         LF         3,690,000         3,690,000           0230         655,0620         Electrical Service Meter Breaker Pedestal (location) 01. LS         1,000         1,000           0234         656,0200         Electrical Service Meter Breaker Pedestal (location) 02. LS         1,000         1,000           0236         680,0015         Sawing Asphalt         LF         521,000         521,000           0236         680,0250         Sawing Concrete         LF         367,000         521,000           0236         680,0250         Sawing Concrete         LF         367,000         521,000           0240         715,0415         Incentive Strength Concrete Pavement         DOL         5,280,000         5,280,000           0242         ASP,1TOG         On-the-Job Training Apprentice at \$5,00HR         HRS         1,200,000         2,000,000           0243         SP,1TOG         On-the-Job Training Graduate at \$5,00HR         HRS         1,200,000	0216	650.9910		LS	1.000	1.000	
0222         654.0111         Concrete Bases Type 1         EACH         41.000         41.000           0224         654.0215         Concrete Control Cabinet Bases Type 9         EACH         2.000         3.690.000           0226         655.0610         Electrical Wire Lighting 12 AWG         LF         3.690.000         3.690.000           0230         655.0620         Electrical Wire Lighting 8 AWG         LF         4.868.000         9.370.000           0232         656.0200         Electrical Service Meter Breaker Pedestal (location) 01.         LS         1.000         1.000           0236         650.0200         Electrical Service Meter Breaker Pedestal (location) 02.         LS         1.000         1.000           0236         690.0150         Sawing Asphalt         LF         521.000         521.000           0238         690.0250         Sawing Concrete         LF         367.000         5290.000           0240         715.0415         Incentive Strength Concrete Paverment         DOL         5,290.000         5,290.000           0242         ASP.1704         On-the-Job Training Graduate at \$5.00/HR         HRS         2,000.000         1,320.000           0246         SPV.0035         Special 01.7 srench Backfill         CY         6,800.000	0218	650.9920	Construction Staking Slope Stakes		3,932.000	3,932.000	
0224         655.0610         Concrete Control Cabinet Bases Type 9         EACH         2.000         2.000           0226         655.0615         Electrical Wire Lighting 10 AWG         LF         4.685.000         4.685.000           0230         655.0620         Electrical Wire Lighting 10 AWG         LF         9.370.000         9.370.000           0232         656.0200         Electrical Service Meter Breaker Pedestal (location) 01.         LS         1.000           0234         656.0200         Electrical Service Meter Breaker Pedestal (location) 02.         LS         1.000           0236         690.0150         Sawing Asphalt         LF         521.000         521.000           0238         690.0250         Sawing Concrete         LF         367.000         367.000           0240         715.0415         Incentive Strength Concrete Pavement         DOL         5.290.000         5.290.000           0242         ASP.110A         On-the-Job Trianing Apprentice at \$5.00/HR         HRS         1,320.000         1,320.000           0244         ASP.110G         On-the-Job Trianing Backfill         CY         6,800.000         1,800.000           0248         SPV.0035         Special 0.1 8" kg "Samitary Wye         EACH         1,000         1,000.000	0220	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	4,685.000	4,685.000	
0226         655.0615         Electrical Wire Lighting 10 AWG         LF         3,890.000         3,890.000           0228         655.0620         Electrical Wire Lighting 8 AWG         LF         4,885.000         9,370.000           0322         656.0200         Electrical Service Meter Breaker Pedestal (location) 01.         LS         1,000           0234         656.0200         Electrical Service Meter Breaker Pedestal (location) 02.         LS         1,000           0236         690.0150         Sawing Asphalt         LF         521.000         521.000           0238         690.0250         Sawing Concrete         LF         367.000         367.000           0240         715.0415         Incentive Strength Concrete Pavement         DOL         5,290.000         5,290.000           0242         ASP.1T0A         On-the-Job Training Apprentice at \$5.00/HR         HRS         2,000.000         2,000.000           0244         ASP.1T0G         On-the-Job Training Craduate at \$5.00/HR         HRS         1,320.000         1,320.000           0246         SPV.0035         Special 01.7 French Backfill         CY         6,800.000         6,800.000           0248         SPV.0035         Special 02.15 % Ser Sanitary Wye         EACH         11.000         11.000 </td <td>0222</td> <td>654.0101</td> <td>Concrete Bases Type 1</td> <td>EACH</td> <td>41.000</td> <td>41.000</td> <td></td>	0222	654.0101	Concrete Bases Type 1	EACH	41.000	41.000	
	0224	654.0215	Concrete Control Cabinet Bases Type 9	EACH	2.000	2.000	
0230         655.0620         Electrical Service Meter Breaker Pedestal (location) 01. LS         1.000         1.000           0232         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. LS         1.000         1.000           0234         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. LS         1.000         1.000           0236         690.0150         Sawing Asphalt         LF         521.000         521.000           0238         690.0250         Sawing Concrete         LF         367.000         367.000           0240         715.0415         Incentive Strength Concrete Pavement         DOL         5.290.000         5.290.000           0242         ASP.1TOG         On-the-Job Training Apprentice at \$5.00HR         HRS         2,000.000         2.000.000           0244         ASP.1TOG         On-the-Job Training Apprentice at \$5.00HR         HRS         1,320.000         1,320.000           0246         SPV.0035         Special 01. Trench Excavation         CY         6,800.000         6,800.000           0248         SPV.0035         Special 02. Trench Backfill         CY         6,800.000         6,800.000           0252         SPV.0060         Special 01.8 "8 of Sanitary Wye         EACH         11.000 <td< td=""><td>0226</td><td>655.0610</td><td>Electrical Wire Lighting 12 AWG</td><td>LF</td><td>3,690.000</td><td>3,690.000</td><td></td></td<>	0226	655.0610	Electrical Wire Lighting 12 AWG	LF	3,690.000	3,690.000	
0232         656.0200         Electrical Service Meter Breaker Pedestal (location) 0.1. LS         1.000         1.000           0234         656.0200         Electrical Service Meter Breaker Pedestal (location) 0.2. LS         1.000         1.000           0236         690.0150         Sawing Asphalt         LF         521.000         367.000           0240         715.0415         Incentive Strength Concrete         LF         367.000         367.000           0240         715.0415         Incentive Strength Concrete Pavement         DOL         5.290.000         5.290.000           0242         ASP.1T0A         On-the-Job Training Apprentice at \$5.00/HR         HRS         2,000.000         2,000.000           0244         ASP.1T0G         On-the-Job Training Graduate at \$5.00/HR         HRS         1,320.000         1,320.000           0248         SPV.0035         Special 07. Trench Excavation         CY         6,800.000         6,800.000           0250         SPV.0035         Special 07. Trench Excavation         CY         6,800.000         6,800.000           0252         SPV.0060         Special 07. Secial Valve & CS         5,800.000         6,800.000         6,800.000           0252         SPV.0060         Special 07. Secial CS. Secial Valve & Box         EACH	0228	655.0615	Electrical Wire Lighting 10 AWG	LF	4,685.000	4,685.000	
LCC-A	0230	655.0620	Electrical Wire Lighting 8 AWG	LF	9,370.000	9,370.000	
0234         656.0200         Electrical Service Meter Breaker Pedestal (location) 02.         LS         1.000         1.000           0236         690.0150         Sawing Asphalt         LF         521.000         367.000           0238         690.0250         Sawing Concrete         LF         367.000         367.000           0240         715.0415         Incentive Strength Concrete Pavement         DOL         5,290.000         2,000.000           0242         ASP.1T0C         On-the-Job Training Apprentice at \$5.00/HR         HRS         2,000.000         1,320.000           0244         ASP.1T0G         On-the-Job Training Graduate at \$5.00/HR         HRS         1,320.000         1,320.000           0246         SPV.0035         Special 01. Trench Backfill         CY         6,800.000         6,800.000           0248         SPV.0035         Special 02. 18" x 6" Sanitary Wy         EACH         11.000         11.000           0252         SPV.0060         Special 01. 8" x 6" Sanitary Wye         EACH         11.000         11.000           0258         SPV.0060         Special 04. 6" Gate Valve & Box         EACH         5.000         5.000           0258         SPV.0060         Special 05. 8" Gate Valve & Box         EACH         10.000	0232	656.0200		LS	1.000	1.000	
0236         690.0150         Sawing Asphalt         LF         521.000         521.000           0238         690.0250         Sawing Concrete         LF         367.000         367.000           0240         715.0415         Incentive Strength Concrete Pavement         DOL         5,290.000         5,290.000           0242         ASP.1T0A         On-the-Job Training Apprentice at \$5.00/HR         HRS         2,000.000         1,320.000           0244         ASP.1T0G         On-the-Job Training Graduate at \$5.00/HR         HRS         1,320.000         1,320.000           0248         SPV.0035         Special 02. Trench Backfill         CY         6,100.000         6,100.000           0250         SPV.0035         Special 03. Rock Mulch         CY         46.000         46.000           0252         SPV.0060         Special 04. 8° call salvay by         EACH         11.000         11.000           0254         SPV.0060         Special 05. 6° Sanitary Wye         EACH         5.000         5.000           0256         SPV.0060         Special 06. 10° Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 07. 6° Hydrant 7°-0° Bury         EACH         7.000         7.000	0234	656.0200	Electrical Service Meter Breaker Pedestal (location) 02.	LS	1.000	1.000	
0238         690.0250         Sawing Concrete         LF         367.000         367.000           0240         715.0415         Incentive Strength Concrete Pavement         DOL         5,290.000         5,290.000           0242         ASP.1T0G         On-the-Job Training Apprentice at \$5.00/HR         HRS         2,000.000         2,000.000           0244         ASP.1T0G         On-the-Job Training Graduate at \$5.00/HR         HRS         1,320.000         1,320.000           0248         SPV.0035         Special 01. Trench Excavation         CY         6,800.000         6,800.000           0250         SPV.0035         Special 02. Trench Backfill         CY         6,100.000         46.000           0250         SPV.0060         Special 03. Rock Mulch         CY         46.000         46.000           0252         SPV.0060         Special 04.8" x 6" Sanitary Wye         EACH         11.000         11.000           0254         SPV.0060         Special 05.8" Gate Valve & Box         EACH         5.000         5.000           0255         SPV.0060         Special 06.10" Gate Valve & Box         EACH         5.000         5.000           0256         SPV.0060         Special 06.10" Gate Valve & Box         EACH         10.000         10.000	0236	690.0150		LF	521.000	521.000	
0240         715.0415         Incentive Strength Concrete Pavement         DOL         5,290.000         5,290.000           0242         ASP.1TOA         On-the-Job Training Apprentice at \$5.00/HR         HRS         2,000.000         2,000.000           0244         ASP.1TOG         On-the-Job Training Graduate at \$5.00/HR         HRS         1,320.000         1,320.000           0248         SPV.0035         Special 01. Trench Excavation         CY         6,800.000         6,800.000           0250         SPV.0035         Special 02. Trench Backfill         CY         6,800.00         6,100.000           0252         SPV.0035         Special 01.8° x 6" Sanitary Wye         EACH         11.000         11.000           0252         SPV.0060         Special 02.15° x 6" Sanitary Wye         EACH         15.000         5.000           0254         SPV.0060         Special 06.8" Gate Valve & Box         EACH         5.000         5.000           0258         SPV.0060         Special 05.8" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 05.6" Hydrant 7"-0" Bury         EACH         10.000         10.000           0262         SPV.0060         Special 07.6" Hydrant 7"-6" Bury         EACH         1.000 </td <td></td> <td></td> <td>• .</td> <td></td> <td></td> <td></td> <td></td>			• .				
0242         ASP.1T0A         On-the-Job Training Apprentice at \$5.00/HR         HRS         2,000.000         2,000.000           0244         ASP.1T0G         On-the-Job Training Graduate at \$5.00/HR         HRS         1,320.000         1,320.000           0246         SPV.0035         Special 01. Trench Excavation         CY         6,800.000         6,800.000           0250         SPV.0035         Special 02. Trench Backfill         CY         6,100.000         6,100.000           0252         SPV.0060         Special 01. 8" x 6" Sanitary Wye         EACH         11.000         11.000           0254         SPV.0060         Special 02. 15" x 6" Sanitary Wye         EACH         5.000         5.000           0256         SPV.0060         Special 04. 6" Gate Valve & Box         EACH         5.000         5.000           0258         SPV.0060         Special 05. 8" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 06. 10" Gate Valve & Box         EACH         10.000         10.000           0262         SPV.0060         Special 07. 6" Hydrant 7" - 6" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 08. 6" Hydrant 7" - 6" Bury         EACH         1.000 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>			-				
0244         ASP.1T0G         On-the-Job Training Graduate at \$5.00/HR         HRS         1,320.000         1,320.000           0246         SPV.0035         Special 01. Trench Excavation         CY         6,800.000         6,800.000           0248         SPV.0035         Special 02. Trench Backfill         CY         6,100.000         6,100.000           0250         SPV.0060         Special 03. Rock Mulch         CY         46.000         46.000           0252         SPV.0060         Special 01. 8" x 6" Sanitary Wye         EACH         11.000         11.000           0254         SPV.0060         Special 04. 6" Gate Valve & Box         EACH         5.000         5.000           0256         SPV.0060         Special 05. 8" Gate Valve & Box         EACH         5.000         5.000           0258         SPV.0060         Special 06. 10" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 07. 6" Hydrant 7"-0" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 08. 6" Hydrant 7"-0" Bury         EACH         1.000         1.000           0268         SPV.0060         Special 18. 6" Hydrant 7"-6" Bury         EACH         1.000         1.000 <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>			•				
0246         SPV.0035         Special 01. Trench Excavation         CY         6,800.000         6,800.000           0248         SPV.0035         Special 02. Trench Backfill         CY         6,100.000         6,100.000           0250         SPV.0035         Special 03. Rock Mulch         CY         46.000         46.000           0252         SPV.0060         Special 01. 8" x 6" Sanitary Wye         EACH         11.000         11.000           0254         SPV.0060         Special 02. 15" x 6" Sanitary Wye         EACH         5.000         5.000           0256         SPV.0060         Special 04. 6" Gate Valve & Box         EACH         8.000         8.000           0258         SPV.0060         Special 06. 8" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 07. 6" Hydrant 7"-0" Bury         EACH         7.000         7.000           0262         SPV.0060         Special 08. 6" Hydrant 7"-0" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0268         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         1.000         1.000 <td< td=""><td></td><td></td><td><b>5</b></td><td></td><td></td><td></td><td></td></td<>			<b>5</b>				
0248         SPV.0035         Special 02. Trench Backfill         CY         6,100.000         6,100.000           0250         SPV.0035         Special 03. Rock Mulch         CY         46.000         46.000           0252         SPV.0060         Special 01. 8" x 6" Sanitary Wye         EACH         11.000         11.000           0254         SPV.0060         Special 02. 15" x 6" Sanitary Wye         EACH         5.000         5.000           0256         SPV.0060         Special 04. 6" Gate Valve & Box         EACH         8.000         8.000           0258         SPV.0060         Special 05. 8" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 06. 10" Gate Valve & Box         EACH         10.000         10.000           0262         SPV.0060         Special 07. 6" Hydrant 7"-0" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 08. 6" Hydrant 7"-0" Bury         EACH         1.000         1.000           0266         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0268         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0272			•				
0250         SPV.0035         Special 03. Rock Mulch         CY         46.000         46.000           0252         SPV.0060         Special 01. 8" x 6" Sanitary Wye         EACH         11.000         11.000           0254         SPV.0060         Special 02. 15" x 6" Sanitary Wye         EACH         5.000         5.000           0256         SPV.0060         Special 04. 6" Gate Valve & Box         EACH         8.000         8.000           0258         SPV.0060         Special 05. 8" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 06. 10" Gate Valve & Box         EACH         10.000         10.000           0262         SPV.0060         Special 07. 6" Hydrant 7'-0" Bury         EACH         1.000         1.000           0264         SPV.0060         Special 08. 6" Hydrant 7'-6" Bury         EACH         1.000         1.000           0264         SPV.0060         Special 09. 1" Service Tap         EACH         2.000         22.000           0268         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         1.000         1.000           0270         SPV.0060         Special 11. 2" Curb Stop & Box         EACH         1.000         1.000           02			·				
0252         SPV.0060         Special 01. 8" x 6" Sanitary Wye         EACH         11.000         11.000           0254         SPV.0060         Special 02. 15" x 6" Sanitary Wye         EACH         5.000         5.000           0256         SPV.0060         Special 04. 6" Gate Valve & Box         EACH         8.000         8.000           0258         SPV.0060         Special 05. 8" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 06. 10" Gate Valve & Box         EACH         10.000         10.000           0262         SPV.0060         Special 07. 6" Hydrant 7"-0" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 08. 6" Hydrant 7"-0" Bury         EACH         1.000         1.000           0264         SPV.0060         Special 09. 1" Service Tap         EACH         1.000         1.000           0266         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0270         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         1.000         1.000           0272         SPV.0060         Special 13. 6" Watermain Tie In, Sta 2+84         EACH         1.000         1.000			·				
0254         SPV.0060         Special 02. 15" x 6" Sanitary Wye         EACH         5.000         5.000           0256         SPV.0060         Special 04. 6" Gate Valve & Box         EACH         8.000         8.000           0258         SPV.0060         Special 05. 8" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 06. 10" Gate Valve & Box         EACH         10.000         10.000           0262         SPV.0060         Special 07. 6" Hydrant 7"-0" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 08. 6" Hydrant 7"-6" Bury         EACH         1.000         1.000           0266         SPV.0060         Special 09. 1" Service Tap         EACH         22.000         22.000           0268         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0270         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         22.000         22.000           0272         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 18. 8" Watermain Tie In, Sta 2+84         EACH         1.000         1.000			·				
0256         SPV.0060         Special 04. 6" Gate Valve & Box         EACH         8.000         8.000           0258         SPV.0060         Special 05. 8" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 06. 10" Gate Valve & Box         EACH         10.000         10.000           0262         SPV.0060         Special 07. 6" Hydrant 7'-0" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 08. 6" Hydrant 7'-6" Bury         EACH         1.000         1.000           0266         SPV.0060         Special 19. 2" Service Tap         EACH         22.000         22.000           0268         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         1.000         1.000           0270         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0276         SPV.0060         Special 15. 6" Watermain Tie In, Sta 2+84         EACH         1.000         1.000           0280         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.							
0258         SPV.0060         Special 05. 8" Gate Valve & Box         EACH         5.000         5.000           0260         SPV.0060         Special 06. 10" Gate Valve & Box         EACH         10.000         10.000           0262         SPV.0060         Special 07. 6" Hydrant 7'-0" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 08. 6" Hydrant 7'-6" Bury         EACH         1.000         1.000           0266         SPV.0060         Special 09. 1" Service Tap         EACH         22.000         22.000           0268         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0270         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         22.000         22.000           0272         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0278         SPV.0060         Special 14. 8" Watermain Tie In, Lester Street         EACH         1.000         1.000           0280         SPV.0060         Special 16. 6" Watermain Tie In, Burns Street         EACH         1.000         1.0			• •				
0260         SPV.0060         Special 06. 10" Gate Valve & Box         EACH         10.000         10.000           0262         SPV.0060         Special 07. 6" Hydrant 7'-0" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 08. 6" Hydrant 7' - 6" Bury         EACH         1.000         1.000           0266         SPV.0060         Special 09. 1" Service Tap         EACH         22.000         22.000           0268         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0270         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         22.000         22.000           0272         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0276         SPV.0060         Special 14. 8" Watermain Tie In, Lester Street         EACH         1.000         1.000           0278         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.000           0282         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000 <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>			•				
0262         SPV.0060         Special 07. 6" Hydrant 7'-0" Bury         EACH         7.000         7.000           0264         SPV.0060         Special 08. 6" Hydrant 7' - 6" Bury         EACH         1.000         1.000           0266         SPV.0060         Special 09. 1" Service Tap         EACH         22.000         22.000           0268         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0270         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         22.000         22.000           0272         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0276         SPV.0060         Special 15. 6" Watermain Tie In, Lester Street         EACH         1.000         1.000           0278         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.000           0282         SPV.0060         Special 17. 2" Watermain Tie In, Park Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
0264         SPV.0060         Special 08. 6" Hydrant 7' - 6" Bury         EACH         1.000         1.000           0266         SPV.0060         Special 09. 1" Service Tap         EACH         22.000         22.000           0268         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0270         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         22.000         22.000           0272         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0276         SPV.0060         Special 14. 8" Watermain Tie In, Sta 2+84         EACH         1.000         1.000           0278         SPV.0060         Special 15. 6" Watermain Tie In, Lester Street         EACH         1.000         1.000           0280         SPV.0060         Special 16. 6" Watermain Tie In, Burns Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000			•				
0266         SPV.0060         Special 09. 1" Service Tap         EACH         22.000         22.000           0268         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0270         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         22.000         22.000           0272         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0276         SPV.0060         Special 14. 8" Watermain Tie In, Sta 2+84         EACH         1.000         1.000           0278         SPV.0060         Special 15. 6" Watermain Tie In, Lester Street         EACH         1.000         1.000           0280         SPV.0060         Special 17. 2" Watermain Tie In, Burns Street         EACH         1.000         1.000           0282         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000			•				
0268         SPV.0060         Special 10. 2" Service Tap         EACH         1.000         1.000           0270         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         22.000         22.000           0272         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0276         SPV.0060         Special 14. 8" Watermain Tie In, Sta 2+84         EACH         1.000         1.000           0278         SPV.0060         Special 15. 6" Watermain Tie In, Lester Street         EACH         1.000         1.000           0280         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.000           0282         SPV.0060         Special 17. 2" Watermain Tie In, Burns Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000							
0270         SPV.0060         Special 11. 1" Curb Stop & Box         EACH         22.000           0272         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0276         SPV.0060         Special 14. 8" Watermain Tie In, Sta 2+84         EACH         1.000         1.000           0278         SPV.0060         Special 15. 6" Watermain Tie In, Lester Street         EACH         1.000         1.000           0280         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.000           0282         SPV.0060         Special 17. 2" Watermain Tie In, Burns Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000							
0272         SPV.0060         Special 12. 2" Curb Stop & Box         EACH         1.000         1.000           0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0276         SPV.0060         Special 14. 8" Watermain Tie In, Sta 2+84         EACH         1.000         1.000           0278         SPV.0060         Special 15. 6" Watermain Tie In, Lester Street         EACH         1.000         1.000           0280         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.000           0282         SPV.0060         Special 17. 2" Watermain Tie In, Burns Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000							
0274         SPV.0060         Special 13. 6" Watermain Tie In, Sta 0+85         EACH         1.000         1.000           0276         SPV.0060         Special 14. 8" Watermain Tie In, Sta 2+84         EACH         1.000         1.000           0278         SPV.0060         Special 15. 6" Watermain Tie In, Lester Street         EACH         1.000         1.000           0280         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.000           0282         SPV.0060         Special 17. 2" Watermain Tie In, Burns Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000			·				
0276         SPV.0060         Special 14. 8" Watermain Tie In, Sta 2+84         EACH         1.000         1.000           0278         SPV.0060         Special 15. 6" Watermain Tie In, Lester Street         EACH         1.000         1.000           0280         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.000           0282         SPV.0060         Special 17. 2" Watermain Tie In, Burns Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000			·				
0278         SPV.0060         Special 15. 6" Watermain Tie In, Lester Street         EACH         1.000         1.000           0280         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.000           0282         SPV.0060         Special 17. 2" Watermain Tie In, Burns Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000			•				
0280         SPV.0060         Special 16. 6" Watermain Tie In, Williams Street         EACH         1.000         1.000           0282         SPV.0060         Special 17. 2" Watermain Tie In, Burns Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000			•				
0282         SPV.0060         Special 17. 2" Watermain Tie In, Burns Street         EACH         1.000         1.000           0284         SPV.0060         Special 18. 8" Watermain Tie In, Park Street         EACH         1.000         1.000			•				
0284 SPV.0060 Special 18. 8" Watermain Tie In, Park Street EACH 1.000 1.000			•				
·			•				
	0286	SPV.0060	·		1.000	1.000	

					9995-00-64	
Line	Item	Item Description	Unit	Total	Qty	
0288	SPV.0060	Special 20. 8" Watermain Tie In, State Street	EACH	1.000	1.000	
0290	SPV.0060	Special 21. 10" Watermain Tie In, Sta 39+76	EACH	1.000	1.000	
0292	SPV.0060	Special 22. Connect to 8" Sanitary Sewer	EACH	3.000	3.000	
0294	SPV.0060	Special 23. Connect to 15" Sanitary Sewer	EACH	1.000	1.000	
0296	SPV.0060	Special 24. Connect to 18" Sanitary Sewer	EACH	1.000	1.000	
0298	SPV.0060	Special 25. Connect to 6" Sanitary Lateral	EACH	16.000	16.000	
0300	SPV.0060	Special 26. Connect to 1" Water Lateral	EACH	22.000	22.000	
0302	SPV.0060	Special 27. Connect to 2" Water Lateral	EACH	1.000	1.000	
0304	SPV.0060	Special 28. Posts U-Channel 14-FT	EACH	65.000	65.000	
0306	SPV.0060	Special 29. Posts Round 12-FT	EACH	9.000	9.000	
0308	SPV.0060	Special 30. Concrete Bases Type 1 Modified	EACH	2.000	2.000	
0310	SPV.0060	Special 31. Pedestal Bases Black	EACH	2.000	2.000	
0312	SPV.0060	Special 32. Traffic Signal Standards Aluminum 10-FT Black	EACH	2.000	2.000	
0314	SPV.0060	Special 33. Solar Powered Single Blinking Beacon	EACH	2.000	2.000	
0316	SPV.0060	Special 34. Street Name Signs	EACH	9.000	9.000	
0318	SPV.0060	Special 35. 4" Core and Seal	EACH	2.000	2.000	
0320	SPV.0060	Special 36. Removing Sanitary Manholes	EACH	3.000	3.000	
0322	SPV.0060	Special 37. Decorative Luminaire and Pole	EACH	41.000	41.000	
0324	SPV.0060	Special 38. Lighting Control Cabinets 120/240 30-Inch Black	EACH	2.000	2.000	
0326	SPV.0080	Special 01. Bulkhead Existing Pipes	ID	250.000	250.000	
0328	SPV.0090	Special 01. 8" Sanitary Sewer SDR 35 PVC	LF	1,351.000	1,351.000	
0330	SPV.0090	Special 02. 15" Sanitary Sewer SDR 35 PVC	LF	888.000	888.000	
0332	SPV.0090	Special 03. 6" Sanitary Lateral SDR 40 PVC	LF	441.000	441.000	
0334	SPV.0090	Special 04. FIII and Abandon 18" Sanitary Sewer	LF	512.000	512.000	
0336	SPV.0090	Special 05. 6" Watermain Class 52 D.I.P. W/ Polywrap	LF	203.000	203.000	
0338	SPV.0090		LF	355.000	355.000	
0340	SPV.0090	Special 07. 10" Watermain Class 52 D.I.P. W/ Polywrap	LF	3,900.000	3,900.000	
0342	SPV.0090	Special 08. 1" Water Lateral	LF	567.000	567.000	
0344	SPV.0090	Special 09. 2" Water Lateral	LF	35.000	35.000	
0346	SPV.0090	Special 10. Insulate Watermain and Water Services	LF	295.000	295.000	
0348	SPV.0090	Special 11. 4" Intake Conduit SDR 40 PVC	LF	271.000	271.000	
0350	SPV.0090	Special 12. 4" Sump Pump Line SDR 40 PVC	LF	15.000	15.000	
0352	SPV.0090	Special 13. Concrete Curb & Gutter 24-Inch Type D	LF	30.000	30.000	
0354	SPV.0120	Special 01. Water for Seeded Areas	MGAL	163.000	163.000	
0356	SPV.0165	Special 01. Resetting Existing Brick Pavers	SF	25.000	25.000	
0358	SPV.0180	Special 01. Hydroseeding	SY	6,828.000	6,828.000	
0360	SPV.0195	Special 01. Watermain Fittings	TON	4.250	4.250	
0362	SPV.0200	Special 01. 4' Diameter Sanitary Manhole	VF	79.000	79.000	

LOCATION	LF
PARKING LOT	13
	<b>-</b> 1

204.0150

LT PARK 3+12 4+25 LT DRIVEWAY 51 299+30 - 299+69 RT & LT **BURNS STREET** 43 399+23 - 399+82 RT & LT PARK STREET 112 RT & LT 30 499+20 - 499+62 HARRISON STREET 599+18 - 599+68 RT & LT **HOUSTON STREET** 82 698+90 - 699+68 RT & LT N. RAYMOND STREET 129

RT & LT

REMOVING CURB AND GUTTER

STATION TO STATION

799+44 - 799+72

STATE STREET 54
PROJECT TOTAL 514

## **CLEARING AND GRUBBING**

NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

		201.0120 CLEARING	201.0220 GRUBBING
STATION	LOCATION	ID	ID
5+38	RT	8	8
16+27	LT	36	36
25+87	LT	15	15
32+26	LT	6	6
38+44	LT	20	20
38+61	LT	60	60
PF	ROJECT TOTALS	145	145

## REMOVING PAVEMENT

			204.0100
STATION TO STATION		LOCATION	SY
1+69 - 40+00		RIVERSIDE AVENUE	19,184
99+60 - 99+72		LESTER STREET	76
199+63 - 199+73		WILLIAMS STREET	61
299+62 - 299+70		<b>BURNS STREET</b>	49
499+55 - 499+68		HARRISON STREET	87
599+59 - 599+69		HOUSTON STREET	54
699+58 - 699+68		N. RAYMOND STREET	70
6+03	RT	DRIVEWAY	19
6+60	RT	DRIVEWAY	16
7+22	RT	DRIVEWAY	17
9+91	RT	DRIVEWAY	11
10+85	RT	DRIVEWAY	17
14+75	RT	DRIVEWAY	17
36+34	RT	DRIVEWAY	25
37+56	RT	DRIVEWAY	27
37+94	RT	DRIVEWAY	28
38+79	RT	DRIVEWAY	12
		PROJECT TOTAL	19,770

## REMOVING CONCRETE SIDEWALK

			204.0155
STATION		LOCATION	SY
0+53 - 4+66	RT & LT	RIVERSIDE AVENUE	545
5+15 - 8+48	RT	RIVERSIDE AVENUE	166
8+99 - 12+35	RT	RIVERSIDE AVENUE	163
12+84 - 16+24	RT	RIVERSIDE AVENUE	186
16+70 - 23+37	RT	RIVERSIDE AVENUE	407
23+85 - 25+30	RT	RIVERSIDE AVENUE	84
25+81 - 31+39	RT	RIVERSIDE AVENUE	322
32+05 - 34+84	RT	RIVERSIDE AVENUE	149
35+07 - 39+85	RT	RIVERSIDE AVENUE	236
399+31 - 399+73	RT & LT	PARK STREET	23
499+26 - 499+68	RT & LT	HARRISON STREET	21
699+15 - 699+74	RT & LT	N.RAYMOND STREET	30
		PROJECT TOTAL	2,332

# REMOVING ASPHALTIC SURFACE

STATION TO STATION		LOCATION	204.0110 SY
4+25	LT	DRIVEWAY	76
1+88 - 3+13	LT	PARKING LOT	94
9+90	RT	DRIVEWAY	5
38+83	RT	DRIVEWAY	6
		PROJECT TOTAL	181

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET

FILE NAME : T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT DATE :10/27/2017 2:24 PM PLOT BY : PLOT NAME : 030201\_mq PLOT SCALE : 1.000000:1.000000 WISDOT / CADDS SHEET 42

3

REMOVING MANHOLES

REMOVING CATCH BASIN	S
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		204.0215
TION	LOCATION	EACH
43	RT & I T	2

STATION	LOCATION	EACH
4+43	RT & LT	2
8+26	RT	1
8+29	LT	1
12+15	RT & LT	2
12+43	RT	1
12+83	RT	1
14+84	RT	1
14+87	LT	1
16+03	RT	1
16+28	RT	1

RT

LT

RT & LT

RT

RT

RT

RT

RT

RT

LT

RT

RT

RT & LT

LT

RT & LT

**PROJECT TOTALS** 

19+96 20+05

22+36

23+36

23+83

24+08

25+30

25+75

26+99

28+71

28+97

31+16

31+34 32+00 32+24

35+27

38+48

O-T-	TION	LOCATION					204.0210
SIA	ATION_	LOCATION	EACH	_	STATION	LOCATION	EACH
4-	+43	RT & LT	2	•	0+83	I T	1
8-	+26	RT	1		1+59	L T	1
8-	+29	ΙT	1			L I	l
_	2+15	RT & LT	2		4+55	LT	1
			_		4+75	RT	1
	2+43	RT	1	_	4+77	LT	1
12	2+83	RT	1	•	12+36	RT	1
14	+84	RT	1		16+52	RT	1
14	+87	LT	1				1
16	6+03	RT	1		23+78	RT	1
_	5+28	RT	1		25+55	RT	1
			<u> </u>	_	35+00	LT	1
16	5+44	LT	1	•	PROJE	CT TOTALS	10
16	5+91	RT	1				

# REMOVING CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE

REMOVING GUARDRAIL

LOCATION

LT

LT

LT

LT

**PROJECT TOTAL** 

**NOTE: ALL ITEMS ON THIS** SHEET ARE CATEGORY 0010 **UNLESS OTHERWISE NOTED.** 

STATION TO STATION

0+54 - 2+24

17+89 - 30+98

33+91 - 35+23

38+81 - 39+15

		204.9090.S.01
STATION TO STATION	LOCATION	LF
39+15 - 39+78	LT	63
	PROJECT TOTAL	63

## REMOVING MODULAR BLOCK RETAINING WALL

204.9090.S.02 REMOVING MODULAR **BLOCK RETAINING** WALL

204.0165

LF

192

1,309

132

34

1,667

			V V / \LL
STATION		LOCATION	LF
799+44 - 799+56 RT		STATE STREET	12
		TOTALS	12

# RESETTING EXISTING BRICK PAVERS

SPV.0165.01 **RESETTING EXISTING BRICK PAVERS** 

STATION		LOCATION	SF
6+22	RT	INWALK	25
		TOTALS	25

REMOVING TRAFFIC SIGNAL, FLASHING LIGHT AT STATION 5+75

1

204.9105.S.01

STATION	LOCATION	LS
5+75	LT	1
	PROJECT TOTAL	1

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE **COUNTY: MARINETTE MISCELLANEOUS QUANTITIES** SHEET

FILE NAME: T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT DATE: 10/27/2017 2:24 PM PLOT BY : PLOT NAME: 030201\_mq PLOT SCALE : 1.000000:1.000000 WISDOT/CADDS SHEET 42 3

# 4

## REMOVING STORM SEWER

					204.0245	5				209.1100 (A)	204.0291.S
		.01	.02	.03	.04	.05	.06	.07	.08	BACKFILL GRANULAR	ABANDONING
		48-INCH	36-INCH	1 24-INCH	I 21-INCH	18-INCH	115-INCH	112-INCH	8-INCH	GRADE 1	STORM SEWER
STATION - STATION	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF	CY	CY
0+83	LT	-	10	-	15	-	-	-	-	-	-
1+23 - 2+10	LT	-	20	-	-	-	-	-	-	-	22
4+43 - 4+63	RT & LT	-	20	-	-	20	-	60	-	44	-
4+75	RT	-	-	-	-	20	-	-	-	-	-
8+28	RT & LT	-	-	-	-	-	-	78	-	-	
12+15 - 12+83	RT & LT	52	=	-	-	-	-	132	-	-	-
14+85	RT & LT	-	_	-	-	-	-	89	-	80	-
16+03 - 16+91	RT & LT	-	_	-	-	-	-	236	-	65	-
20+00	RT & LT	-	_	-	-	-	13	44	-	32	-
22+35	RT & LT	-	-	-	-	-	-	55	-	51	-
23+36 - 24+08	RT & LT	-	-	-	-	-	-	162	-	131	-
25+30 - 25+97	RT & LT	-	-	79	-	-	-	60	-	46	-
26+98	RT & LT	-	-	-	-	-	-	50	-	50	-
28+71 - 28+97	RT & LT	-	-	-	-	-	64	-	-	33	-
<u>31+15 - 32+25</u>	RT & LT	-	-	-	-	24	-	68	109	120	-
34+98 - 35+27	RT & LT	-	-	-	-	-	-	92	54	64	-
38+50	RT & LT	_	-	-	-	-	-	-	79	-	-
	PROJECT TOTALS	52	50	79	15	64	77	1,126	242	716	22

A) REFER TO EXCAVATION TABLE FOR ADDITIONAL QUANTITY.

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET **E** 

EARTHWORK
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Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)		Available Material (5)	Expanded EBS Backfill (11)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow	Comment:
	CURVE TABLE		<b>Cut (2)</b> (item # 205.0100)	(3)	Unusable Pavement Material (4)		Factor 1.30		Factor 1.25			(item #208.0100)	
1	0+68.45 - 20+50	RIVERSIDE AVENUE	7375	1050	2286	5089	1365	57	71	5018	5018	0	
2	20+50 - 40+00	RIVERSIDE AVENUE	5132	2650	2389	2743	3445	130	163	2581	2580	0	
Grand Tota	al		12507	3700	4675	7832	4810	187	234	7598	7598	0	
		Total Common Exc	16207						•	•			•

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
  11) Expanded EBS Backfill This is to be filled with Backfill Granular Grade 1 material. EBS Backfill Factor = 1.3. Item number 209.1100 (Refer to Storm Sewer Removal Table for additional quantity)
- 13) Expanded Fill. Factor = 1.25
- 14) 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.

# BASE AGGREGATE DENSE AND WATER

305.0120 624.0100 BASE AGGREGATE WATER DENSE

		1 1/4-INCH	
STATION TO STATION	LOCATION	TON	MGAL
0+68.45 - 40+00	RIVERSIDE AVENUE	6,872	68.7
99+20 - 99+72	LESTER STREET	115	1.2
199+14 - 199+72	WILLIAMS STREET	120	1.2
299+00 - 299+71	BURNS STREET	154	1.5
399+23 - 399+71	PARK STREET	92	0.9
499+20 - 499+69	HARRISON STREET	95	1.0
599+18 - 599+70	HOUSTON STREET	100	1.0
698+90 - 699+69	N. RAYMOND STREET	174	1.7
799+44 - 799+72	STATE STREET	34	0.3
	UNDISTRIBUTED	387.8	7.8
	PROJECT TOTALS	8,144	85

## **CONCRETE PAVEMENT**

	CONTONE	•••		
		415.0080 8-INCH	415.4100 CONCRETE PAVEMENT	415.5110.S CONCRETE PAVEMENT
			JOINT FILLING	JOINT LAYOUT
STATION TO STATION	LOCATION	SY	SY	LS
0+93 - 40+00	RIVERSIDE AVENUE	16,496	18,489	1
99+49 - 99+74	LESTER STREET	112	133	-
199+42 - 199+72	WILLIAMS STREET	133	158	-
299+40 - 299+73	BURNS STREET	135	159	-
399+37 - 399+73	PARK STREET	145	171	
499+31 - 499+70	HARRISON STREET	170	198	-
599+32 - 599+70	HOUSTON STREET	155	182	-
699+17 - 699+69	N. RAYMOND STREET	250	283	-
799+54 - 799+73	STATE STREET	38	55	-
	PROJECT TOTALS	17 634	19 828	1

HWY: RIVERSIDE AVENUE PROJECT NO: 9995-00-64 **COUNTY: MARINETTE** MISCELLANEOUS QUANTITIES SHEET

FILE NAME: T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT DATE : 10/27/2017 2:24 PM PLOT BY : PLOT NAME: 030201\_mq PLOT SCALE: 1.000000:1.000000 WISDOT/CADDS SHEET 42 NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

## ASPHALT SUMMARY

465.0105 465.0120 ASPHALTIC SURFACE ASPHALTIC SURFACE

DRIVEWAYS AND FIELD ENTRANCES

STATION TO STATION		LOCATION	TON	TON
0+68.45 - 0+93		RIVERSIDE AVENUE	23	
1+04 - 3+11	LT	PARKING LOT	-	37
4+25	LT	DRIVEWAY	-	12
9+90	RT	DRIVEWAY	-	1
38+78	RT	DRIVEWAY	-	1
99+20 - 99+49		LESTER STREET	23	
199+14 - 199+41		WILLIAMS STREET	23	
299+00 - 299+40		<b>BURNS STREET</b>	34	
399+23 - 399+37		PARK STREET	11	
499+20 - 499+30		HARRISON STREET	9	
599+18 - 599+33		HOUSTON STREET	12	
698+90 - 699+18		N. RAYMOND STREET	26	
799+44 - 799+54		STATE STREET	4	
		PROJECT TOTALS	165	51

## CONCRETE CURB AND CURB & GUTTER

			601.0110	601.0411	601.0452	601.0584	601.0600	SPV.0090.13
			CONCRETE	30-INCH	INTEGRAL	4-INCH SLOPED	CONCRETE	24-INCH
			CURB	TYPE D	30-INCH	30-INCH TYPE TBT	CURB	TYPE D
			TYPE D		TYPE D		PEDESTRIAN	
STATION TO STATION		LOCATION	LF	LF	LF	LF	LF	LF
0+93 - 40+00	RT & LT	RIVERSIDE AVENUE	-	-	7,174	-	_	-
0+68.45 - 0+93	RT & LT	RIVERSIDE AVENUE	-	50	-	-	_	-
3+12	LT	PARKING LOT	13	-	-	-	_	-
4+25	LT	DRIVEWAY	-	32	-	-	-	-
99+20 - 99+75	RT & LT	LESTER STREET	-	56	74	-	-	-
199+14 - 199+74	RT & LT	WILLIAMS STREET	-	54	90	-	-	-
299+00 - 299+73	RT & LT	<b>BURNS STREET</b>	-	80	87	-	-	-
399+23 - 399+75	RT & LT	PARK STREET	-	28	94	-	-	-
499+20 - 499+74	RT & LT	HARRISON STREET	-	22	101	-	-	-
499+46 - 499+66	RT & LT	HARRISON STREET		-	-	-	20	
599+19 - 599+75	RT & LT	<b>HOUSTON STREET</b>	-	-	96	-	-	30
698+90 - 699+74	RT & LT	N. RAYMOND STREET	_	56	119	-	-	-
799+44 - 799+77	RT & LT	STATE STREET	-	-	60	20	-	-
		PROJECT TOTALS	13	378	7,895	20	20	30

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET

NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

## CONCRETE SIDEWALK AND DRIVEWAY

			416.0160 CONCRETE DRIVEWAY 6-INCH	602.0405 CONCRETE SIDEWALK 4-INCH	602.0515 CURB RAMP DETECTABLE WARNING FIELD
					NATURAL PATINA
STATION TO STATION		LOCATION	SY	SF	SF
0+53 - 4+66	LT	RIVERSIDE AVENUE	66	3,371	20
0+68 - 5+30	RT	RIVERSIDE AVENUE	-	2,718	20
5+15 - 8+48	RT	RIVERSIDE AVENUE	69	1,574	30
8+99 - 12+35	RT	RIVERSIDE AVENUE	37	1,597	20
12+84 - 16+24	RT	RIVERSIDE AVENUE	21	1,712	20
16+70 - 23+37	RT	RIVERSIDE AVENUE	-	3,725	20
23+85 - 25+30	RT	RIVERSIDE AVENUE	-	801	20
25+81 - 31+39	RT	RIVERSIDE AVENUE	-	3,022	30
32+05 - 34+84	RT	RIVERSIDE AVENUE	-	1,353	20
35+07 - 39+85	RT	RIVERSIDE AVENUE	112	2,117	10
399+31 - 399+73	RT & LT	PARK STREET	-	202	-
499+26 - 499+68	RT & LT	HARRISON STREET	_	195	-
699+15 - 699+74	RT & LT	N. RAYMOND STREET	-	334	-
		PROJECT TOTALS	305	22.721	210

## ADJUSTING STRUCTURES

		611.8110	611.0603		
		ADJUSTING	INLET COVERS	<b>EXISTING</b>	NEW
		MANHOLE COVER	TYPE A-S	COVER	COVER
STATION	LOCATION	EACH	EACH	ELEVATION	ELEVATION
16+38	20.7' RT	1		120.27	119.94
16+62	49.5' RT	1		120.30	120.30
34+87	44.4' RT		1	115.06	114.98
35+05	39.9' RT		1	115.02	114.98
PRO.	IFCT TOTALS	5 2	2	•	

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET **E** 

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NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 **UNLESS OTHERWISE NOTED.** 

#### STORM SEWER SUMMARY

							STOR	M SEWER PIPE	≣			STORM SEWER PIPE
							REINFORCE	ED CONCRETI	E CLASS III		RI	EINFORCED CONCRETE CLASS IV
FROM	TO				608.0315	608.0318	608.0321	608.0324	608.0327	608.0336	608.0348	608.0412
STRUCTURE	STRUCTURE	INLET	OUTLET	SLOPE	15-INCH	18-INCH	21-INCH	24-INCH	27-INCH	36-INCH	48-INCH	12-INCH
NO.	NO.	ELEV	ELEV	%	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)
MH 10.0	EX. PIPE N.	115.83	115.78	0.50%			15					<del></del>
MH 10.0	EX. PIPE W.	120.25	120.32	0.50%						10		<del></del>
MH 11.0	MH 10.0A	114.85	115.30	0.60%						72		<del></del>
MH 11.0	EX. PIPE W.	115.30	114.80	0.50%						10		<del></del>
MH 10.0A	EX. PIPE S.	115.30	115.35	0.50%						10		<del></del>
MH 11.0	CB 11.1	121.53	121.65	1.00%								12
MH 11.0	CB 11.2	121.21	121.50	1.00%								29
MH 12.0	EX. PIPE N.	113.52	113.48	0.40%						10		
MH 12.0	EX. PIPE W.	113.52	113.56	0.40%						10		
MH 13.0	MH 12.0	117.50	117.60	1.00%								10
MH 12.0	CB 12.1	120.00	120.32	1.00%								32
MH 13.0	EX. PIPE N.	115.72	115.67	0.50%		10						
MH 13.0	EX. PIPE S.	115.72	115.77	0.50%		10						
MH 13.0	CB 13.1	120.00	120.21	1.00%								21
MH 13.0A	EX. PIPE N.	116.04	115.99	0.50%		10						
MH 13.0A	EX. PIPE S.	116.04	116.09	0.50%		10						
AE 14.0	CB 14.1	118.00	118.19	0.50%								38
CB 14.1	CB 14.2	118.19	118.6	0.50%								41
MH 15.0	EX. PIPE N.	111.65	111.62	0.20%							12	
MH 15.0	MH 16.0	111.65	111.65	0.00%							28	
MH 15.0	CB 15.1	117.30	117.60	1.00%								30
MH 15.0	MH 17.0	116.14	116.50	0.50%								71
MH 17.0	CB 17.1	116.91	117.07	1.00%								16
MH 17.0	CB 17.2	116.91	117.15	1.00%								25
MH 16.0	EX. PIPE S.	111.65	111.68	0.20%							12	
MH 16.0	CB 16.1	117.20	117.40	1.00%								19
AE 18.1	MH 18.0	113.00	114.00	1.92%	52							
MH 18.0	MH 19.0	115.00	115.37	1.09%	34							
MH 19.0	MH 19.3	115.37	115.70	1.09%	30							
MH 18.0	CB 18.2	115.00	115.39	1.00%								39
MH 19.0	CB 19.1	115.50	115.85	1.00%								35
MH 19.0	CB 19.2	115.50	115.82	1.00%								32
AE 20.0	CB 20.1	111.50	111.54	0.40%	12							
CB 20.1	CB 21.0	111.54	111.71	0.40%								41
CB 20.1	CB 20.2	111.55	111.59	0.40%								10
CB 21.0	CB 21.1	111.71	111.75	0.40%								10
CB 21.1	EX. PIPES S.	112.50	112.55	1.00%								
			SUBTOTA		128	40	15			122	52	511

HWY: RIVERSIDE AVENUE MISCELLANEOUS QUANTITIES PROJECT NO: 9995-00-64 **COUNTY: MARINETTE** SHEET FILE NAME: T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT DATE: 10/27/2017 2:24 PM

PLOT BY : PLOT NAME: 030201\_mq PLOT SCALE : 1.000000:1.000000 WISDOT/CADDS SHEET 42 3

# STORM SEWER SUMMARY

	STORM SEWER PIPE REINFORCED CONCRETE CLASS III									REI	STORM SEWER PIPE NFORCED CONCRETE CLASS IV	
FROM	TO			-	608.0315	608.0318	608.0321	608.0324	608.0327	608.0336	608.0348	608.0412
STRUCTURE	STRUCTURE	INLET	OUTLET	SLOPE	15-INCH	18-INCH	21-INCH	24-INCH	27-INCH	36-INCH	48-INCH	12-INCH
NO.	NO.	ELEV	ELEV	%	(LF)	(LF)						
AE 22.0	CB 22.1	111.70	111.80	0.40%								12
CB 22.1	CB 22.2	111.80	111.96	0.40%								41
CB 22.2	CB 22.3	111.96	112.30	0.40%								86
AE 23.0	MH 23.1	111.26	111.40	0.20%				23				
MH 23.1	EX. PIPE S.	111.40	111.42	0.20%				70				
MH 23.1	CB 23.2	112.28	112.50	0.50%								43
MH 23.1	CB 23.3	112.28	112.48	0.50%								40
AE 24.0	CB 24.1	111.50	111.56	0.40%	14							
CB 24.1	CB 25.0	111.56	111.72	0.40%								41
CB 24.1	CB 24.2	111.56	111.60	0.40%								10
CB 25.0	CB 25.1	111.72	111.76	0.40%								10
BH 26.2	MH 26.0	107.73	107.65	0.40%		20						
MH 26.0	MH 27.0	107.65	107.32	0.40%		82						
MH 27.0	MH 28.0	107.32	106.65	0.40%			168					
MH 26.0	CB 26.1	111.15	111.25	1.00%								10
MH 27.0	CB 27.1	110.50	111.00	1.00%								50
CB 27.1	CB 27.2	111.00	111.23	1.00%								23
MH 28.0	MH 29.0	106.65	106.05	0.40%				147				<del></del>
MH 29.0	MH 30.0	106.05	106.21	0.40%		40						
MH 29.0	MH 31.0	106.05	104.66	0.40%					346			
MH 31.0	AE 31.1	104.66	104.50	0.40%					40			
MH 30.0	EX. PIPE S.	111.80	111.84	0.40%								10
MH 30.0	CB 30.1	110.64	111.00	1.00%								36
MH 31.0	CB 31.2	109.89	110.00	1.00%								11
MH 31.0	CB 31.3	109.93	110.00	1.00%								7
MH 31.0	CB 31.5	109.44	109.80	1.00%								36
CB 31.5	CB 31.4	109.80	109.92	1.00%								12
			SUBTOTAL		14	142	168	240	386			478
		PROJE	CT TOTAL	S	142	182	183	240	386	122	52	989

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET E

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#### STORM SEWER STRUCTURE SCHEDULE

APRON ENDWALLS FOR CULVERT PIPE

			FINISHED				REINFORCED CONCRETE			INLET AND MAI	NHOLE COVERS	CATCH	I BASINS	MANHOLES				
							522.1012	522.1015	522.1024	522.1027	611.0530	611.0603	611.1003	611.1004	611.2004	611.2005	611.2006	611.2007
				TOP	INVERT								3-FT	4-FT	4-FT	5-FT	6-FT	7-FT
STRUCT.			CASTING	STRUCTUR	<b>ESTRUCTUR</b>	Ε	12-INCH	15-INCH	24-INCH	27-INCH	TYPE J	TYPE A-S	DIAMETER	DIAMETER	DIAMETER	DIAMETER	DIAMETER	DIAMETER
NO.	STATION	OFFSET	ELEV	ELEV	ELEV	DEPTH	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
MH 10.0	0+83	9' LT	126.65	125.40	115.83	9.57					1					1		
MH 10.0A	1+32	11' LT	126.43	125.18	115.30	9.88					1					1		
MH 11.0	2+00	5' LT	126.27	125.02	114.85	10.17					1					1		
CB 11.1	2+00	16.5' LT	126.10	125.02	119.65	5.37						1	1					
CB 11.2	2+00	16.5' RT	125.94	124.86	119.50	5.36						1	1					
MH 12.0	4+55	5.3' LT	124.97	123.72	113.52	10.20					1						1	
CB 12.1	4+58	26.7' RT	124.49	123.41	118.32	5.09						1	1					
MH 13.0	4+63	0.5' LT	124.95	123.70	115.72	7.98					1				1			
CB 13.1	4+77	16.5' LT	124.63	123.55	118.21	5.34						1	1					
MH 13.0A	4+75	53.4' RT	124.82	123.57	116.04	7.53					1				1			
AE 14.0	18+28	54' LT			118.00		1											
CB 14.1	8+29	16.5' LT	123.24	122.16	116.19	5.97						1	1					
CB 14.2	8+29	24.5' RT	123.08	122.00	116.60	5.40						1	1					
MH 15.0	12+29	0.5' LT	121.90	120.65	109.60	11.05					1							1
CB 15.1	12+04	16.5' LT	121.72	120.64	115.60	5.04						1	1					
MH 16.0	12+39	25.5' RT	121.70	120.45	109.60	10.85					1							1
CB 16.1	12+20	24.5' RT	121.50	120.42	115.40	5.02						1	1					
MH 17.0	13+00	ON C/L	121.64	120.39	116.50	3.89					1				1			
CB 17.1	13+00	16.5' LT	121.34	120.26	114.91	5.35						1	1					
CB 17.2	13+00	24.5' RT	121.18	120.10	115.15	4.95						1	1					
MH 18.0	16+48	13' LT	119.70	118.45	114.00	4.45					1				1			
AE 18.1	16+27	59.5' LT			113.00			1										
CB 18.2	16+87	16.5' LT	119.34	118.26	113.39	4.87						1	1					
MH 19.0	16+56	20.5' RT	119.70	118.45	115.37	3.08					1				1			
CB 19.1	16+27	41.5' RT	120.14	119.06	113.85	5.21						1	1					
CB 19.2	16+87	24.5' RT	119.18	118.10	113.82	4.28						1	1					
AE 20.0	20+06	28' LT			111.50			1										
CB 20.1	20+06	16.5' LT	114.78	113.70	109.54	4.16						1		1				
CB 20.2	19+96	16.5' LT	114.82	113.74	109.59	4.15						1	1					
CB 21.0	20+06	24.5' RT	114.62	113.54	109.71	3.83						1		1				
CB 21.1	19+96	24.5' RT	114.66	113.58	109.75	3.83						1	1					
<del>_</del>					SUBTOTAL		1	2			11	17	15	2	5	3	1	2

#### **NOTES**

- 1. TOP OF CASTING ELEVATION FOR CATCH BASINS IS FLANGE ELEVATION.
- 2. OFFSETS TO ALL STRUCTURES ARE GIVEN TO CENTER OF STRUCTURE.
- 3. DEPTHS OF MANHOLES ARE MEASURED FROM LOWEST PIPE INVERT TO TOP OF MASONRY.
- 4. DEPTHS OF CATCH BASINS ARE MEASURED FROM BOTTOM OF SUMP TO TOP OF MASONRY.
- 5. MANHOLE DEPTHS INCLUDE A 9" CASTING ALLOWANCE AND A 6" ADJUSTMENT ALLOWANCE.
- 6. CATCH BASIN DEPTHS INCLUDE A 7" CASTING ALLOWANCE AND A 6" ADJUSTMENT ALLOWANCE.

MH = MANHOLE

CB = CATCH BASIN

AE = APRON ENDWALL

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FILE NAME : T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT BY : PLOT NAME : 030201\_mq PLOT SCALE : 1.000000:1.000000 WISDOT/CADDS SHEET 42

#### STORM SEWER STRUCTURE SCHEDULE

							APRON E	NDWALLS	FOR CULV	ERT PIPE								
				FINISI	HED		REINFORCED CONCRETE INLET AND MANHOLE COVERS			CATCH	BASINS		MANH	HOLES				
							522.1012	522.1015	522.1024	522.1027	611.0530	611.0603	611.1003	611.1004	611.2004	611.2005	611.2006	611.2007
				TOP	INVERT								3-FT	4-FT	4-FT	5-FT	6-FT	7-FT
STRUCT.			CASTING	STRUCTURE	ESTRUCTUR	RE	12-INCH	15-INCH	24-INCH	27-INCH	TYPE J	TYPE A-S	DIAMETER	DIAMETER	DIAMETER	DIAMETER	DIAMETER	DIAMETER
NO.	STATION	OFFSET	ELEV	ELEV	ELEV	DEPTH	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
AE 22.0	23+83	31.5' LT			111.70		1											
CB 22.1	24+00	16.5' LT	115.98	114.90	109.80	5.10						1	1					
CB 22.2	24+05	24.5' RT	115.82	114.74	109.96	4.78						1	1					
CB 22.3	23+19	24.5' RT	115.89	114.81	110.30	4.51						1	1					
AE 23.0	25+87	32' LT			111.26				1									
MH 23.1	25+55	30' RT	116.50	115.25	111.40	3.85					1						1	
CB 23.2	25+98	24.5' RT	116.22	115.14	110.50	4.64						1	1					
CB 23.3	25+55	24.5' RT	116.27	115.19	110.48	4.71						1	1					
AE 24.0	28+70	29' LT			111.50			1										
CB 24.1	28+65	16.5' LT	115.28	114.20	109.56	4.64						1		1				
CB 24.2	28+75	16.5' LT	115.32	114.24	109.60	4.64						1	1					
CB 25.0	28+65	24.5' RT	115.12	114.04	109.72	4.32						1		1				
CB 25.1	28+75	24.5' RT	115.16	114.08	109.76	4.32						1	1					
MH 26.0	31+49	60' RT	115.65	114.40	107.65	6.75					1				1			
CB 26.1	31+38	58' RT	115.46	114.38	109.25	5.13						1	1					
MH 27.0	31+90	12' LT	116.45	115.20	107.32	7.88					1				1			
CB 27.1	32+00	40.2' RT	115.33	114.25	109.00	5.25						1	1					
CB 27.2	32+23	24.5' RT	115.59	114.51	109.23	5.28						1	1					
MH 28.0	33+54	12.5' LT	116.40	115.15	106.65	8.50					1				1			
MH 29.0	35+01	11' LT	115.75	114.50	106.05	8.45					1					1		
MH 30.0	35+07	27.5 RT	115.14	113.89	106.21	7.68					1					1		
CB 30.1	34+69	24.5' RT	115.24	114.16	109.00	5.16						1	1					
AE 31.1	38+49	51' LT			104.50					1								
MH 31.0	38+46	12' LT	114.25	113.00	104.66	8.34					1					1		
CB 31.2	38+38	16.5' LT	114.23	113.15	108.00	5.15						1	11					
CB 31.3	38+54	16.5' LT	114.17	113.09	108.00	5.09						1	1					
CB 31.4	38+35	24.5 RT	114.02	112.94	107.92	5.02						1	1					
CB 31.5	38+50	24.5' RT	113.98	112.90	107.80	5.10						1	1					
						SUBTOTAL	1	1	1	1	7	17	15	2	3	3	1	0
					PROJEC	CT TOTALS	2	3	1	1	18	34	30	4	8	6	2	2

- 1. TOP OF CASTING ELEVATION FOR CATCH BASINS IS FLANGE ELEVATION.
- 2. OFFSETS TO ALL STRUCTURES ARE GIVEN TO CENTER OF STRUCTURE.
- 3. DEPTHS OF MANHOLES ARE MEASURED FROM LOWEST PIPE INVERT TO TOP OF MASONRY.
- 4. DEPTHS OF CATCH BASINS ARE MEASURED FROM BOTTOM OF SUMP TO TOP OF MASONRY.
- 5. MANHOLE DEPTHS INCLUDE A 9" CASTING ALLOWANCE AND A 6" ADJUSTMENT ALLOWANCE.
- 6. CATCH BASIN DEPTHS INCLUDE A 7" CASTING ALLOWANCE AND A 6" ADJUSTMENT ALLOWANCE.

MH = MANHOLE CB = CATCH BASIN AE = APRON ENDWALL

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE **COUNTY: MARINETTE** MISCELLANEOUS QUANTITIES SHEET

FILE NAME: T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT DATE : 10/27/2017 2:24 PM PLOT BY : PLOT NAME: 030201\_mq PLOT SCALE : 1.000000:1.000000 WISDOT/CADDS SHEET 42

	NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.							
			.2330 614.2500 IGS MGS THRIE	614.2610 MGS		SILTFENO	CE	
3		GUARDRAIL 3 GUARE	DRAIL 3K BEAM	GUARDRAIL I TERMINAL EAT	STATION TO STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
	STATION TO STATION LOCATION	l LF	LF LF	EACH	6+00 - 18+39	LT	1406	1406
4	17+89 LT	-		1	31+28 - 40+00	LT	1055	1055
	17+89 - 18+40 LT	51		-		SUBTOTALS	2461	2461
ı	18+40 - 31+00 LT		260 -	-		JTED AMOUNT	246	246
	31+00 - 35+39 LT	439		-	PRO	JECT TOTALS	2,707	2,707
	35+39 LT	-		1				
	38+00 LT 38+00 - 39+41 LT	- 141	-	1				
	39+41 - 39+80 LT	-	- 39	-				
	PROJECT TOTALS		260 39	3				
Ì					TURB	IDITY BARRIERS A	AND ROCK BAGS	
	MOBIL	ZATIONS EROSION CON				LOCATION	TURBIDITY BARRIERS 628.6005	ROCK BAGS 628.7570
		628	8.1905 628.1910	,	STATION TO STATION	LOCATION	SY	EACH
	STATION	LOCATION E	EMERGENCY ACH EACH	ſ	8+30 14+75 - 15+06	LT LT	13 17	
			<u>ACH EACH</u> 11 5	_	16+07 - 16+46	LT	19	
	<u> </u>		11 5	<u> </u>	18+39 - 31+32	LT	569	
ı		THOOLOTTOTALO			34+86 - 35+17	LT	23	
					38+35 - 38+70	LT		35
					UNDISTRIBUTED			50
					PF	ROJECT TOTAL	641	85
ľ	INLE <sup>-</sup>	F PROTECTION				GEOTEXTILE FA	BRIC	
	STATION  0+68.45 - 40+00  SUBTOTA  UNDISTRIBUTE  PROJECT TOTAL	D 4 5	C TYPE D	-	STATION TO STAT 3+50 - 6+50 19+50 - 22+50 27+00 - 30+00 34+00 - 39+00	RIVERSIDE RIVERSIDE RIVERSIDE RIVERSIDE	E AVENUE 1567 E AVENUE 1567 E AVENUE 1567 E AVENUE 2611	
	PROJECT NO: 4987-02-55	HWY: CTH YY	COUNTY: BROWN		MISCELLANEOUS QUANTITIES	PRO	JECT TOTAL 7,312	SHEET

PLOT DATE : 10/27/2017 2:24 PM FILE NAME: T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT BY : PLOT NAME: 030201\_mq PLOT SCALE: 1.000000:1.000000 WISDOT / CADDS SHEET 42

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STATION TO STATION	CK LCH CY 16  
STATION TO STATION	CK LCH CY 16   
Reference	LCH CY 16   
14+78 - 14+98	CY 66    
16+19 - 16+52	6     
31+13 - 31+28	
32+18 - 32+33	
34+88 - 35+35	
SUBTOTALS   446	 
NOTIFIED AMOUNT   45   18   15   17   18   18   18   18   18   19   19   19	
NODISTRIBUTED AMOUNT   45   PROJECT TOTAL   491   PROJECT TOTALS   747   285   46	
LANDSCAPING SUMMARY	6
625.0100	
TOPSOIL   FERTILIZER   SEEDING   SEEDING   HYDRO   WATER FOR	
TYPE B   MIXTURE NO. 40   TEMPORARY   SEEDING   SEEDED   AREAS	
STATION TO STATION   LOCATION   SY CWT   LB   LB   SY   MGAL	
STATION TO STATION         LOCATION         SY         CWT         LB         LB         SY         MGAL           0+68 - 5+30         LT         BEHIND SIDEWALK         135           4         135         3.0           0+68 - 4+70         RT         BEHIND SIDEWALK AND TERRACE AREA         238           6         238         5.3	
0+68 - 5+30 LT BEHIND SIDEWALK 135 4 135 3.0 0+68 - 4+70 RT BEHIND SIDEWALK AND TERRACE AREA 238 6 238 5.3	
0+68 - 4+70 RT BEHIND SIDEWALK AND TERRACE AREA 238 6 238 5.3	
F120 10127 LT DELIND CUDD 1450 24 1450 25.0	
5+30 - 18+37 LT BEHIND CURB 1,159 31 1,159 25.9	
8+17 - 8+40 LT NEW STORM SEWER OUTFALL 59 2 59 1.3	
14+78 - 14+98 LT EXISTING STORM SEWER OUTFALL 86 0.05 1.6 2 1.9	
16+19 - 16+52 LT NEW STORM SEWER OUTFALL 76 0.05 1.4 2 1.7	
5+12 - 8+63 RT BEHIND SIDEWALK AND TERRACE AREA 339 9 339 7.6	
8+96 - 12+62 RT BEHIND SIDEWALK AND TERRACE AREA 372 10 372 8.3	
12+97 - 16+40 RT BEHIND SIDEWALK AND TERRACE AREA 360 9.7 360 8.0	
16+68 - 23+39 RT BEHIND SIDEWALK AND TERRACE AREA 1,092 29 1,092 24.4	
23+65 - 25+32 RT BEHIND SIDEWALK AND TERRACE AREA 221 6.0 221 4.9	
25+57 - 31+41 RT BEHIND SIDEWALK AND TERRACE AREA 627 17 627 13.9	
31+00 - 41+00 LT BEHIND CURB 768 21 768 17.1	
31+13 - 31+28 LT EXISTING STORM SEWER OUTFALL 33 0.02 0.6 1 0.7	
32+18 - 32+33 LT EXISTING STORM SEWER OUTFALL 30 0.02 0.6 1 0.7	
34+88 - 35+35 LT EXISTING STORM SEWER OUTFALL 167 0.10 3.1 5 3.7	
38+38 - 38+68 LT NEW STORM SEWER OUTFALL 43 0.03 0.8 1 1.0	
31+57 - 34+90 RT BEHIND SIDEWALK AND TERRACE AREA 411 11 411 9.1	
35+10 - 40+00 RT BEHIND SIDEWALK AND TERRACE AREA 426 11 426 9.5	
SUBTOTALS 6642 0.27 8 180 6207 148.0	
UNDISTRIBUTED AMOUNT 664 0.03 1 18 621 15	
NOTES: PROJECT TOTAL 7,306 0.30 9 198 6828 163	
TYPE B FERTILIZER @ 7LBS/1000SF SEED NO 40 @ 2LBS/1000SF	
TEMP SEED @ 3LBS/1000SF	
PROJECT NO: 9995-00-64  HWY: RIVERSIDE AVENUE  COUNTY: MARINETTE  MISCELLANEOUS QUANTITIES  FILE NAME : T:\1082704.05\Cadd\Quants\030201_mq.ppt  PLOT DATE : 10/27/2017 2:24 PM PLOT BY: PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000	SHEET

PLOT SCALE : 1.000000:1.000000 WISDOT / CADDS SHEET 42

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NOTE: ALL ITEMS ON THIS												
SHEET ARE CATEGORY 0010					MARKI	NG						
UNLESS OTHERWISE NOTED.			SOLID		DASHED	646.6120 STOP LINE EPOXY	646.5020 ARROWS BIKE LANE	646.5520 SYMBOLS BIKE LANE	646.5120 WORDS BIKE LANE	646.7420 CROSSWALK EPOXY		
			WHITE	YELLOW	/ YELLOW	18"	EPOXY	EPOXY	EPOXY	6-INCH		
1	STATION TO STATION	LOCATION	LF	LF	LF	LF	EACH	EACH	EACH	LF		
	0+69 - 6+14	CENTERLINE		1090								
	6+63 - 38+42 38+61 - 40+11	CENTERLINE CENTERLINE		300	800 							
	40+05	RT				26						
	0+69 - 40+00	LT	3931									
1	0+69 - 4+47	RT	697									
	5+34 - 8+29	RT	606									
	9+17 - 12+20 13+00 - 16+06	RT RT	622 628									
	16+87 - 23+20	RT	1282									
	24+04 - 25+15	RT	238									
	25+97 - 31+19	RT	1060									
	32+23 - 34+69 35+24 - 39+74	RT PT	508 920									
	35+24 - 39+74 39+74 - 40+00	RT RT	920 12									
	1+74	RT & LT								86		
	0+84	RT & LT						1	3			
	0+96	RT					1					
	3+53 3+65	RT< RT<					1	1				
	6+05	RT & LT					<u></u> 1	<u></u>				
1	6+17	RT & LT					1	1				
	9+43	RT & LT					1	1				
	9+55	RT & LT					1	1				
	<u>11+80</u> 11+92	RT & LT RT & LT					1 1	1 1				
	14+43	RT & LT					1	1				
	14+55	RT & LT					1	1				
	16+93	RT & LT					1	1				
	17+05	RT & LT					1 1	1				
	19+43 19+55	RT & LT RT & LT					1	1				
	21+93	RT & LT					1	1				
	22+05	RT & LT					1	1				
	24+43	RT & LT					1	1				
	24+55 26+93	RT & LT RT & LT				<b></b>	1	1	<b></b>	<del></del>		
	20+93 27+05	RT & LT					1	1				
	29+43	RT & LT					1	11				
	29+55	RT & LT					1	1				
	32+32	RT & LT					1	1				
	32+44 34+49	RT & LT RT & LT					1 1	1 1	<b></b>			
	34+49 34+61	RT & LT					1	1				
	36+93	RT & LT					1	1				
	37+05	RT & LT					1	1				
	39+43	RT & LT					1	1				
	39+56	RT & LT PROJECT TOTALS	10,504	1,390	800	26	<u> </u>	1 31	3	 86		
												Ta::===
PROJECT NO: 9995-00-64	HWY: RIVERSIDE AVEN	NUE COUNTY: MA	ARINETTE			ANEOUS QUA				_		SHEET
FILE NAME: T:\1082704.05\Cadd\Quants\030201_mq.ppt				PLOT D	DATE : 10/27/2017	2:24 PM	PLOT BY :	PLO	T NAME : 030201_mq	PLOT SCALE	: 1.000000:1.000000	WISDO

WISDOT / CADDS SHEET 42

NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

#### ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS

								ERECTION	AND REIVIOVA	LOFITE	IGNO AND SU	JPPURIS		
					637.221			638.2602		SPV.0060.28	SPV.0060.29		SPV.0060.31	
					SIGNS TY	PE II				POSTS	POSTS			
j			DIRECTION		REFLECTI	VE H	SIGNS	SIGNS	SMALL SIGN		ROUND	SINGLE BLINKER	SIGN	
4	SIGN		OF	SIGN			TYPE II	TYPE II	SUPPORTS	14'	12'	BEACON		
	NO.	LOCATION	TRAVEL	CODE	WXH	S.F.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	REMARKS
	1	RIVERSIDE AVENUE	EB	W1-1R	3X3	9.00						1		SIGN MOUNTED ON SOLAR POWERED BLINKER BEACON
	2	RIVERSIDE AVENUE	EB	STREET SIGN				1	1		1		1	RIVERSIDE AVE / VAN CLEVE AVE
	3	RIVERSIDE AVENUE	EB	W1-8	2X3	6.00				1				
	4	RIVERSIDE AVENUE	WB	W1-8	2X3	6.00				1				<del></del>
	5	RIVERSIDE AVENUE	EB	EX SIGN				1	1					NO PARKING THIS SIDE OF STREET
	6	RIVERSIDE AVENUE	WB	R3-17, R3-17-B	2.5X2, 2.5X1	7.50				1				<del></del>
	7	RIVERSIDE AVENUE	EB	W1-8	2X3	6.00				1				
	8	RIVERSIDE AVENUE	WB	W1-8	2X3	6.00				1				
	9	RIVERSIDE AVENUE	EB	R3-17a	1.5x2	3.00								MOUNTED ON LIGHT POLE
	10	RIVERSIDE AVENUE	EB	W1-8	2X3	6.00				1				
	11	RIVERSIDE AVENUE	WB	EX SIGN				1	1					NO PARKING ANYTIME
	12	RIVERSIDE AVENUE	WB	W1-8	2X3	6.00				1				<del></del>
ĺ	13	RIVERSIDE AVENUE	WB	R7-9a	1X1.5	1.50				1				<u></u>
ĺ	14	RIVERSIDE AVENUE	WB	EX SIGN				1	1					30 MINUTE PARKING
Ī	15	RIVERSIDE AVENUE	WB	W1-1R	3X3	9.00						1		SIGN MOUNTED ON SOLAR POWERED BLINKER BEACON
	16	RIVERSIDE AVENUE	WB	EX SIGN		9.00		1	1			I		30 MINUTE PARKING
ĺ		RIVERSIDE AVENUE	EB	R7-51-L	1.5X2	3.00		•	'	1				JU WINO LE FARRING
ĺ	16.1	RIVERSIDE AVENUE		EX SIGN				 1	 1	I				ADOPT A STREET MARINETTE KIWANIS RIVERSIDE AVE.
I	17		EB					1	 				 1	
Ī	18	RIVERSIDE AVENUE	EB	STREET SIGN	 2 EV2	 		1	1		1		1	RIVERSIDE AVE / LESTER ST
ĺ	19	RIVERSIDE AVENUE	WB	R3-17	2.5X2	5.00				1				
ĺ	20	RIVERSIDE AVENUE	WB	EX SIGN				2	1					W1-1L AND 30 MINUTE PARKING
Ī	21	LESTER STREET	NB	R1-1	2.5X2.5	6.25		1	1	1				<del></del>
ł	22	RIVERSIDE AVENUE	WB	R2-1	2X2.5	5.00		1	1	1				
	23	RIVERSIDE AVENUE	EB	R3-17a	1.5X2	3.00								MOUNTED ON LIGHT POLE
	24	RIVERSIDE AVENUE	WB	R7-51-R	1.5X2	3.00				1				<del></del>
	25	RIVERSIDE AVENUE	WB	R7-9a	1X1.5	1.50				1				
	26	RIVERSIDE AVENUE	WB	W3-5	3X3	9				1				
ĺ	27	RIVERSIDE AVENUE	WB	EX SIGN				1	1					2 HOUR PARKING
1	28	RIVERSIDE AVENUE	EB	R7-51-L	1.5X2	3.00				1				
1	29	RIVERSIDE AVENUE	EB	STREET SIGN				1	1		1		11	RIVERSIDE AVE / WILLIAMS ST
	30	RIVERSIDE AVENUE	WB	R3-17	2.5X2	5.00				1				
	31	WILLIAMS STREET	NB	R1-1	2.5X2.5	6.25		1	1	1				
	32	RIVERSIDE AVENUE	EB	R3-17a	1.5X2	3.00								MOUNTED ON LIGHT POLE
ĺ	33	RIVERSIDE AVENUE	EB	R7-51-R	1.5X2	3.00				1				
1	34	RIVERSIDE AVENUE	WB	R7-9a	1X1.5	1.50				1				
ĺ	35	RIVERSIDE AVENUE	EB	R2-1	2X2.5	5.00				1				
ĺ	36	RIVERSIDE AVENUE		R7-51-L	1.5X2	3.00								<del></del>
ĺ	37	RIVERSIDE AVENUE		STREET SIGN				1	1		1		1	RIVERSIDE AVE / BURNS ST
I	38	RIVERSIDE AVENUE		R3-17	2.5X2	5.00				1			' 	
	39	BURNS STREET	NB	R1-1	2.5X2.5	6.25		 1	1	1				 
I	40	RIVERSIDE AVENUE		R3-17a	1.5X2	3.00		<u>'</u>	! 	I				MOUNTED ON LIGHT POLE
		RIVERSIDE AVENUE		R5-17a R7-51-R	1.5X2 1.5X2					 1		<del></del>		
	41	RIVERSIDE AVENUE				3.00		 1	 1	1		<b></b>		<del></del>
1	42			R2-1	2X2.5	5.00		1	1	1				<del></del>
	43	RIVERSIDE AVENUE		R7-9a	1X1.5	1.50				1				<del></del>
1	44	RIVERSIDE AVENUE		R7-51-L	1.5X2	3.00				1				DMEDOIDE AVE / DADI/ CT
1	45	RIVERSIDE AVENUE	EB	STREET SIGN				1	1		1		1	RIVERSIDE AVE / PARK ST
	46	RIVERSIDE AVENUE		R3-17	2.5X2	5.00			<del></del>	1				<del></del>
	47	PARK STREET	NB	R1-1	2.5X2.5	6.25		1	1	1				<del></del>
	48	RIVERSIDE AVENUE		EX SIGN				1	1					NEIGHBORHOOD WATCH
	49	RIVERSIDE AVENUE		R7-51-R	1.5x2	3.00				1				
	50	RIVERSIDE AVENUE	EB	R3-17a	1.5x2	3.00								MOUNTED ON LIGHT POLE
				SUBTO	TALS	175.50	0	20	19	30	5	2	5	
1														

HWY: RIVERSIDE AVENUE **COUNTY: MARINETTE** PROJECT NO: 9995-00-64 MISCELLANEOUS QUANTITIES SHEET FILE NAME: T:\1082704.05\Cadd\Quants\030201\_mq.ppt

	EMS ON THIS CATEGORY 0010					ER	RECTION AND	REMOVAL O	F TYPE II SIGNS	AND SUPPO		(CATEGORY 0020)	
	ERWISE NOTED.	DIRECTION		637.221 SIGNS TYI REFLECTI	PE II	638.2102 MOVING SIGNS		638.3000 REMOVING SMALL SIGN	SPV.0060.28 POSTS U-CHANNEL	SPV.0060.29 POSTS ROUND		SPV.0060.34	
SIGN		OF	SIGN	INEI EEO II	V L 11	TYPE II	TYPE II	SUPPORTS	14'	12'	BEACON	OIOI	
NO.	LOCATION	TRAVEL	CODE	WXH	S.F.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	REMARKS
51	RIVERSIDE AVENUE	WB	R7-9a	1X1.5	1.50				1				
52	RIVERSIDE AVENUE	EB	R3-17a	1.5X2	3.00								MOUNTED ON LIGHT POLE
53	RIVERSIDE AVENUE	WB	R3-17	2.5X2	5.00				1				<del></del>
54	RIVERSIDE AVENUE	EB	R2-1	2X2.5	5.00								MOUNTED ON LIGHT POLE
55	RIVERSIDE AVENUE	WB	R7-9a	1X1.5	1.50				1				
56	RIVERSIDE AVENUE	WB	R2-1	2X2.5	5.00		1	1	1				
57	RIVERSIDE AVENUE	EB	R7-51-L	1.5X2	3.00				1				<del></del>
58	RIVERSIDE AVENUE	EB	STREET SIGN				1	1		1		1	RIVERSIDE AVE / HARRISON ST
59	RIVERSIDE AVENUE	WB	EX SIGN				1	1					NEIGHBORHOOD WATCH
60	HARRISON STREET	NB	R1-1	2.5X2.5	6.25		1	1	1				
61	RIVERSIDE AVENUE	EB	EX SIGN				1	1					RIVERSIDE AVE / HARRISON ST
62	RIVERSIDE AVENUE	EB	R7-51-R	1.5X2	3.00				1				
63	RIVERSIDE AVENUE	WB	R3-17	2.5X2	5.00				1				
64	RIVERSIDE AVENUE	EB	R3-17a	1.5X2	3.00				1				
65	RIVERSIDE AVENUE	EB	R7-51-L	1.5X2	3.00				1				<u></u>
66	RIVERSIDE AVENUE	EB	STREET SIGN				1	1		1		1	RIVERSIDE AVE / HOUSTON ST
67	RIVERSIDE AVENUE	WB	R7-9a	1X1.5	1.50				1				
68	HOUSTON STREET	NB	R1-1	2.5X2.5	6.25		1	1	1				
69	RIVERSIDE AVENUE	EB	EX SIGN				1	1					RIVERSIDE AVE / HOUSTON ST
70	RIVERSIDE AVENUE	EB	R7-51-R	1.5X2	3.00				1				<u></u> _
71	RIVERSIDE AVENUE	EB	R3-17a	1.5X2	3.00								MOUNTED ON LIGHT POLE
72	RIVERSIDE AVENUE	WB	R3-17	2.5X2	5.00				1				
73	RIVERSIDE AVENUE	WB	R7-9a	1X1.5	1.50				1				
74	RIVERSIDE AVENUE	EB	R3-17a	1.5X2	3.00								MOUNTED ON LIGHT POLE
75	RIVERSIDE AVENUE	EB	R7-51-L	1.5X2	3.00				1				
76	N. RAYMOND STREET	NB	R1-1	2.5X2.5	6.25		1	1	1				
77	RIVERSIDE AVENUE	EB	STREET SIGN				1	1		1		1	RIVERSIDE AVE / N. RAYMOND ST
78	RIVERSIDE AVENUE	WB	R3-17	2.5X2	5.00				1				
79	RIVERSIDE AVENUE	EB	EX SIGN				1	1					NO PARKING THIS SIDE OF STREET
80	RIVERSIDE AVENUE	EB	R7-51-R	1.5X2	3.00				1				
81	RIVERSIDE AVENUE	EB	R3-17a	1.5X2	3.00								MOUNTED ON LIGHT POLE
82	RIVERSIDE AVENUE	WB	R7-9a	1X1.5	1.50				1				
83	RIVERSIDE AVENUE	EB	R2-1	2X2.5	5.00				1				
84	RIVERSIDE AVENUE	WB	R2-1	2X2.5	5.00		1	1	1				
85	RIVERSIDE AVENUE	EB	EX SIGN				1	1					NO PARKING THIS SIDE OF STREET
86	RIVERSIDE AVENUE	EB	R7-51-L	1.5X2	3.00				1				
87	RIVERSIDE AVENUE		STREET SIGN				1	1		1		1	RIVERSIDE AVE / STATE ST
88	STATE STREET	NB	R1-1	2.5X2.5	6.25		1	1	1				<del></del>
89	RIVERSIDE AVENUE	EB	R3-17a	1.5X2	3.00								MOUNTED ON LIGHT POLE
90	RIVERSIDE AVENUE	WB	EX SIGN			1		2	2				NO RV PARKING, NO CAMPING OR COOKING, ET
91	RIVERSIDE AVENUE	EB	R7-51-R	1.5X2	3.00				1				
92	RIVERSIDE AVENUE	EB	EX SIGN				1	1					NO PARKING THIS SIDE OF STREET
93	RIVERSIDE AVENUE	WB	R3-17	2.5X2	5.00				1				
94	RIVERSIDE AVENUE	EB	EX SIGN				1	1					NO PARKING THIS SIDE OF STREET
95	RIVERSIDE AVENUE	WB	R7-9a	1X1.5	1.50				1				
96	RIVERSIDE AVENUE	WB	R3-17	2.5X2	5.00				1				
97	RIVERSIDE AVENUE	WB	EX SIGN			1		2	2				NO RV PARKING, NO CAMPING OR COOKING, ET
98	RIVERSIDE AVENUE	EB	R3-17a	1.5X2	3.00								MOUNTED ON LIGHT POLE
99	RIVERSIDE AVENUE	EB	EX SIGN				1	1					NO PARKING THIS SIDE OF STREET
100	RIVERSIDE AVENUE	EB	R7-51-L	1.5X2	3.00			<u></u>	1				
101	RIVERSIDE AVENUE	EB		2.5X2.5,2X1	8.25				1				FLOURESCENT YELLOW-GREEN BACKGROUNI
	RIVERSIDE AVENUE	WB	W11-2, W16-9P		8.25				1				FLOURESCENT YELLOW-GREEN BACKGROUND
			SUBTOTA		148.50	2	18	22	35	4	0	4	
			PROJECT T		324.00	2	38	41	65	9	2	9	

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET **E** 

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3

SAWING

SAWING

STATION TO STATION         LOCATION         LF           CATEGORY 0010         0+68         RT & LT         RIVERSIDE AVENUE         36           0+53 - 0+68         LT         SIDEWALK            0+68         RT         SIDEWALK            1+05 - 1+40         LT         PARKING LOT         48           1+43 - 1+88         RT         INWALK            1+89 - 3+13         LT         PARKING LOT         140           2+66         RT         INWALK            3+34         LT         INWALK            4+06         RT         INWALK            4+07 - 4+59         LT         DRIVEWAY            5+94 - 6+11         RT         DRIVEWAY            99+20         RT & LT         LESTER STREET         37           6+55 - 6+67         RT         DRIVEWAY            7+18 - 7+28         RT         INWALK            7+49         RT         INWALK            199+14         RT & LT         WILLIAMS STREET         37           9+53         RT         INWALK	<u>LF</u>
0+68         RT & LT         RIVERSIDE AVENUE         36           0+53 - 0+68         LT         SIDEWALK            0+68         RT         SIDEWALK            1+05 - 1+40         LT         PARKING LOT         48           1+43 - 1+88         RT         INWALK            1+89 - 3+13         LT         PARKING LOT         140           2+66         RT         INWALK            3+34         LT         INWALK            4+06         RT         INWALK            4+07 - 4+59         LT         DRIVEWAY            5+62         RT         INWALK            5+94 - 6+11         RT         DRIVEWAY            99+20         RT & LT         LESTER STREET         37           6+55 - 6+67         RT         DRIVEWAY            6+95         RT         INWALK            7+49         RT         INWALK            199+14         RT & LT         WILLIAMS STREET         37           9+86 - 9+97         RT         DRIVEWAY         11 <t< td=""><td></td></t<>	
0+53 - 0+68         LT         SIDEWALK            0+68         RT         SIDEWALK            1+05 - 1+40         LT         PARKING LOT         48           1+43 - 1+88         RT         INWALK            1+89 - 3+13         LT         PARKING LOT         140           2+66         RT         INWALK            3+34         LT         INWALK            4+06         RT         INWALK            4+07 - 4+59         LT         DRIVEWAY            5+62         RT         INWALK            5+94 - 6+11         RT         DRIVEWAY            99+20         RT & LT         LESTER STREET         37           6+55 - 6+67         RT         DRIVEWAY            6+95         RT         INWALK            7+49         RT         INWALK            199+14         RT & LT         WILLIAMS STREET         37           9+53         RT         INWALK            9+86 - 9+97         RT         DRIVEWAY         9           12+04	
0+68         RT         SIDEWALK            1+05 - 1+40         LT         PARKING LOT         48           1+43 - 1+88         RT         INWALK            1+89 - 3+13         LT         PARKING LOT         140           2+66         RT         INWALK            3+34         LT         INWALK            4+06         RT         INWALK            4+07 - 4+59         LT         DRIVEWAY            5+62         RT         INWALK            5+94 - 6+11         RT         DRIVEWAY            99+20         RT & LT         LESTER STREET         37           6+55 - 6+67         RT         DRIVEWAY            6+95         RT         INWALK            7+49         RT         INWALK            199+14         RT & LT         WILLIAMS STREET         37           9+86 - 9+97         RT         DRIVEWAY         11           10+81 - 10+90         RT         DRIVEWAY         9           12+04         RT         INWALK            299+00	5
1+05 - 1+40         LT         PARKING LOT         48           1+43 - 1+88         RT         INWALK            1+89 - 3+13         LT         PARKING LOT         140           2+66         RT         INWALK            3+34         LT         INWALK            4+06         RT         INWALK            4+07 - 4+59         LT         DRIVEWAY            5+62         RT         INWALK            5+94 - 6+11         RT         DRIVEWAY            99+20         RT & LT         LESTER STREET         37           6+55 - 6+67         RT         DRIVEWAY            6+95         RT         INWALK            7+18 - 7+28         RT         DRIVEWAY            199+14         RT & LT         WILLIAMS STREET         37           9+53         RT         INWALK            9+86 - 9+97         RT         DRIVEWAY         11           10+81 - 10+90         RT         DRIVEWAY         9           12+04         RT         INWALK            299+	22
1+43 - 1+88         RT         INWALK            1+89 - 3+13         LT         PARKING LOT         140           2+66         RT         INWALK            3+34         LT         INWALK            4+06         RT         INWALK            4+07 - 4+59         LT         DRIVEWAY            5+62         RT         INWALK            5+94 - 6+11         RT         DRIVEWAY            99+20         RT & LT         LESTER STREET         37           6+55 - 6+67         RT         DRIVEWAY            6+95         RT         INWALK            7+18 - 7+28         RT         DRIVEWAY            7+49         RT         INWALK            199+14         RT & LT         WILLIAMS STREET         37           9+53         RT         INWALK            9+86 - 9+97         RT         DRIVEWAY         11           10+81 - 10+90         RT         DRIVEWAY         9           12+04         RT         INWALK            299+00	5
1+89 - 3+13         LT         PARKING LOT         140           2+66         RT         INWALK            3+34         LT         INWALK            4+06         RT         INWALK            5+62         RT         INWALK            5+94 - 6+11         RT         DRIVEWAY            99+20         RT & LT         LESTER STREET         37           6+55 - 6+67         RT         DRIVEWAY            6+95         RT         INWALK            7+18 - 7+28         RT         DRIVEWAY            7+49         RT         INWALK            199+14         RT & LT         WILLIAMS STREET         37           9+53         RT         INWALK            9+86 - 9+97         RT         DRIVEWAY         11           10+81 - 10+90         RT         DRIVEWAY         9           12+04         RT         INWALK            299+00         RT & LT         BURNS STREET         37           13+33         RT         INWALK	
2+66       RT       INWALK          3+34       LT       INWALK          4+06       RT       INWALK          5+62       RT       INWALK          5+94 - 6+11       RT       DRIVEWAY          99+20       RT & LT       LESTER STREET       37         6+55 - 6+67       RT       DRIVEWAY          6+95       RT       INWALK          7+18 - 7+28       RT       DRIVEWAY          199+14       RT & INWALK          199+14       RT & LT       WILLIAMS STREET       37         9+53       RT       INWALK          9+86 - 9+97       RT       DRIVEWAY       11         10+81 - 10+90       RT       DRIVEWAY       9         12+04       RT       INWALK          299+00       RT & LT       BURNS STREET       37         13+33       RT       INWALK	17
3+34       LT       INWALK          4+06       RT       INWALK          4+07 - 4+59       LT       DRIVEWAY          5+62       RT       INWALK          5+94 - 6+11       RT       DRIVEWAY          99+20       RT & LT       LESTER STREET       37         6+55 - 6+67       RT       DRIVEWAY          6+95       RT       INWALK          7+18 - 7+28       RT       DRIVEWAY          199+14       RT & LT       WILLIAMS STREET       37         9+53       RT       INWALK          9+86 - 9+97       RT       DRIVEWAY       11         10+81 - 10+90       RT       DRIVEWAY       9         12+04       RT       INWALK          299+00       RT & LT       BURNS STREET       37         13+33       RT       INWALK	
4+06       RT       INWALK          4+07 - 4+59       LT       DRNEWAY          5+62       RT       INWALK          5+94 - 6+11       RT       DRIVEWAY          99+20       RT & LT       LESTER STREET       37         6+55 - 6+67       RT       DRIVEWAY          6+95       RT       INWALK          7+18 - 7+28       RT       DRIVEWAY          7+49       RT       INWALK          199+14       RT & LT       WILLIAMS STREET       37         9+53       RT       INWALK          9+86 - 9+97       RT       DRIVEWAY       11         10+81 - 10+90       RT       DRIVEWAY       9         12+04       RT       INWALK          299+00       RT & LT       BURNS STREET       37         13+33       RT       INWALK	6
4+07 - 4+59         LT         DRIVEWAY            5+62         RT         INWALK            5+94 - 6+11         RT         DRIVEWAY            99+20         RT & LT         LESTER STREET         37           6+55 - 6+67         RT         DRIVEWAY            6+95         RT         INWALK            7+18 - 7+28         RT         DRIVEWAY            7+49         RT         INWALK            199+14         RT & LT         WILLIAMS STREET         37           9+53         RT         INWALK            9+86 - 9+97         RT         DRIVEWAY         11           10+81 - 10+90         RT         DRIVEWAY         9           12+04         RT         INWALK            299+00         RT & LT         BURNS STREET         37           13+33         RT         INWALK	4
5+62       RT       INWALK          5+94 - 6+11       RT       DRIVEWAY          99+20       RT & LT       LESTER STREET       37         6+55 - 6+67       RT       DRIVEWAY          6+95       RT       INWALK          7+18 - 7+28       RT       DRIVEWAY          7+49       RT       INWALK          199+14       RT & LT       WILLIAMS STREET       37         9+53       RT       INWALK          9+86 - 9+97       RT       DRIVEWAY       11         10+81 - 10+90       RT       DRIVEWAY       9         12+04       RT       INWALK          299+00       RT & LT       BURNS STREET       37         13+33       RT       INWALK	4
5+94 - 6+11       RT       DRIVEWAY          99+20       RT & LT       LESTER STREET       37         6+55 - 6+67       RT       DRIVEWAY          6+95       RT       INWALK          7+18 - 7+28       RT       DRIVEWAY          7+49       RT       INWALK          199+14       RT & LT       WILLIAMS STREET       37         9+53       RT       INWALK          9+86 - 9+97       RT       DRIVEWAY       11         10+81 - 10+90       RT       DRIVEWAY       9         12+04       RT       INWALK          299+00       RT & LT       BURNS STREET       37         13+33       RT       INWALK	10
99+20       RT & LT       LESTER STREET       37         6+55 - 6+67       RT       DRIVEWAY          6+95       RT       INWALK          7+18 - 7+28       RT       DRIVEWAY          7+49       RT       INWALK          199+14       RT & LT       WILLIAMS STREET       37         9+53       RT       INWALK          9+86 - 9+97       RT       DRIVEWAY       11         10+81 - 10+90       RT       DRIVEWAY       9         12+04       RT       INWALK          299+00       RT & LT       BURNS STREET       37         13+33       RT       INWALK	4
6+55 - 6+67       RT       DRIVEWAY          6+95       RT       INWALK          7+18 - 7+28       RT       DRIVEWAY          7+49       RT       INWALK          199+14       RT & LT       WILLIAMS STREET       37         9+53       RT       INWALK          9+86 - 9+97       RT       DRIVEWAY       11         10+81 - 10+90       RT       DRIVEWAY       9         12+04       RT       INWALK          299+00       RT & LT       BURNS STREET       37         13+33       RT       INWALK	15
6+95         RT         INWALK            7+18 - 7+28         RT         DRIVEWAY            7+49         RT         INWALK            199+14         RT & LT         WILLIAMS STREET         37           9+53         RT         INWALK            9+86 - 9+97         RT         DRIVEWAY         11           10+81 - 10+90         RT         DRIVEWAY         9           12+04         RT         INWALK            299+00         RT & LT         BURNS STREET         37           13+33         RT         INWALK	
7+18 - 7+28         RT         DRIVEWAY            7+49         RT         INWALK            199+14         RT & LT         WILLIAMS STREET         37           9+53         RT         INWALK            9+86 - 9+97         RT         DRIVEWAY         11           10+81 - 10+90         RT         DRIVEWAY         9           12+04         RT         INWALK            299+00         RT & LT         BURNS STREET         37           13+33         RT         INWALK	11
7+49       RT       INWALK          199+14       RT & LT       WILLIAMS STREET       37         9+53       RT       INWALK          9+86 - 9+97       RT       DRIVEWAY       11         10+81 - 10+90       RT       DRIVEWAY       9         12+04       RT       INWALK          299+00       RT & LT       BURNS STREET       37         13+33       RT       INWALK	4
199+14       RT & LT       WILLIAMS STREET       37         9+53       RT       INWALK          9+86 - 9+97       RT       DRIVEWAY       11         10+81 - 10+90       RT       DRIVEWAY       9         12+04       RT       INWALK          299+00       RT & LT       BURNS STREET       37         13+33       RT       INWALK	10
9+53 RT INWALK 9+86 - 9+97 RT DRIVEWAY 11  10+81 - 10+90 RT DRIVEWAY 9 12+04 RT INWALK 299+00 RT & LT BURNS STREET 37 13+33 RT INWALK	4
9+86 - 9+97         RT         DRIVEWAY         11           10+81 - 10+90         RT         DRIVEWAY         9           12+04         RT         INWALK            299+00         RT & LT         BURNS STREET         37           13+33         RT         INWALK	
10+81 - 10+90 RT DRIVEWAY 9 12+04 RT INWALK 299+00 RT & LT BURNS STREET 37 13+33 RT INWALK	4
12+04 RT INWALK 299+00 RT & LT BURNS STREET 37 13+33 RT INWALK	
299+00 RT & LT BURNS STREET 37 13+33 RT INWALK	
13+33 RT INWALK	4
14+69 - 14+81 RT DRIVEWAY	4
	12
15+72 RT INWALK	4
399+23 RT & LT PARK STREET 32	5
399+31 RT SIDEWALK	5
399+48 LT SIDEWALK	5
17+52 RT INWALK	4
SUBTOTALS 387	168

			690.0150 ASPHALT	690.0250 CONCRETE
STATION TO STATION		LOCATION	LF	LF
19+36	RT	INWALK		3
20+58	RT	INWALK		4
21+10	RT	INWALK		4
21+61	RT	INWALK		4
23+00	RT	INWALK		5
499+20	RT & LT	HARRISON STREET	37	
499+26	LT	SIDEWALK		6
499+46	RT	SIDEWALK		5
24+51	RT	INWALK		10
599+18	RT & LT	<b>HOUSTON STREET</b>	33	4
27+33	RT	INWALK		5
28+23	RT	INWALK		5
30+03	RT	INWALK		4
698+90	RT & LT	N. RAYMOND STREET	37	4
699+17	LT	SIDEWALK		6
699+45	RT	SIDEWALK		6
799+44	RT & LT	STATE STREET	15	5
35+55	RT	RT		4
36+30 - 36+47	RT	RT		16
37+30	RT	RT		4
37+50 - 37+69	RT	DRIVEWAY		19
37+89 - 38+07	RT	DRIVEWAY		18
38+34	RT	INWALK		3
38+76 - 38+88	RT	DRIVEWAY	12	
38+93	RT	INWALK		4
39+89	RT	SIDEWALK		5
40+00	RT & LT	RIVERSIDE AVENUE		46
		SUBTOTALS	134	199
		PROJECT TOTALS	521	367

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# 3

# CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER

				650.5500		
			CONCRETE	30-INCH	4-INCH SLOPED	24-INCH
			CURB	TYPE D	30-INCH TYPE TBT	TYPE D
			TYPE D			
STATION TO STATION		LOCATION	LF	LF	LF	LF
0+93 - 40+00	RT & LT	RIVERSIDE AVENUE	-	-	-	-
0+68.45 - 0+93	RT & LT	RIVERSIDE AVENUE	-	50	-	-
3+12	LT	PARKING LOT	13	-	-	-
4+25	LT	DRIVEWAY	-	32	-	-
99+20 - 99+75	RT & LT	LESTER STREET	-	56	-	-
199+14 - 199+74	RT & LT	WILLIAMS STREET	-	54	-	-
299+00 - 299+73	RT & LT	BURNS STREET	-	80	-	-
399+23 - 399+75	RT & LT	PARK STREET	-	28	-	-
499+20 - 499+74	RT & LT	HARRISON STREET	-	22	-	-
599+19 - 599+75	RT & LT	HOUSTON STREET	-	-	-	30
698+90 - 699+74	RT & LT	N. RAYMOND STREET	-	56	-	-
799+44 - 799+77	RT & LT	STATE STREET	-	-	20	-
		PROJECT TOTALS	13	378	20	30
		TOTAL (650.5500)	441			

#### CONSTRUCTION STAKING SUMMARY

		650.4000	650.4500	650.7000	650.8500	650.9910	650.9920	650.9000
		STORM SEWER	SUBGRADE	CONCRETE	ELECTRICAL	SUPPLEMENTAL	SLOPE	CURB
		SYSTEM *		PAVEMENT	INSTALLATIONS	CONTROL	STAKES	RAMPS
					(9995-00-64)	(9995-00-64)		
STATION TO STATION	LOCATION	EACH	LF	LF	LS	LS	LF	EACH
0+68 - 40+00	RIVERSIDE AVENUE	58	3,932	3,932	1	1	3,932	20
	PROJECT TOTALS	58	3.932	3.932	1	1	3.932	20

\* SEE STORM SEWER QUANTITIES FOR STATION AND OFFSETS

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NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

# BASES AND STANDARDS

		SPV.0060.30 CONCRETE BASES	SPV 0060.31 PEDESTAL BASES	SPV.0060.32 TRAFFIC SIGNAL
		TYPE 1	BLACK	STANDARDS ALUMINUM
		MODIFIED		10-FT BLACK
STATION	LOCATION	EACH	EACH	EACH
0+65	RT	1	1	1
3+50	LT	1	1	1
PRO	JECT TOTALS	2	2	2

# TRAFFIC CONTROL SUMMARY

			.0300 RUMS	BARR	.0410 ICADES PE II	BARF	3.0420 RICADES PE III	WARNIN	3.0705 NG LIGHTS PE A		3.0900 GNS
	SERVICE										
LOCATION	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS
RIVERSIDE AVENUE, BEGIN PROJECT	170	0	0	2	340	3	510	8	1,360	3	510
LESTER STREET	170	0	0	0	0	3	510	6	1,020	1	170
WILLIAMS STREET	170	0	0	0	0	3	510	6	1,020	1	170
BURNS STREET	170	0	0	0	0	3	510	6	1,020	1	170
PARK STREET	170	0	0	2	340	3	510	8	1,360	3	510
HARRISON STREET	170	0	0	2	340	3	510	8	1,360	3	510
HOUSTON STREET	170	0	0	0	0	3	510	6	1,020	2	340
N. RAYMOND STREET	170	0	0	2	340	3	510	8	1,360	3	510
STATE STREET	170	0	0	0	0	3	510	6	1,020	1	170
RIVERSIDE AVENUE, END PROJECT	170	0	0	1	170	3	510	7	1,190	2	340
UNDISTRIBUTED		25	1,875	5	375	8	600	20	1,500		
PROJECT	TOTALS	25	1,875	14	1,905	38	5,700	89	13,230	20	3,400

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		TRAFFIC	CONTROL	DETOUR	SIGN SUMM/	ARY
					643.0900	
				APPROX.		
			NUMBER	SERVICE	SIGNS	
SIGN	SIGN	SIZE	IN	PERIOD		
				155		
NO.	CODE	WXH	SERVICE	(DAYS)	(DAYS)	REMARKS
		RI	VERSIDE	AVENUE	DETOUR	
1	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE
	M4-8	24"x12"	1	170	170	
	M6-1	21"x21"	1	170	170	
2	M4-8A	24"X18"	1	170	170	
3	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE
	M4-8	24"X12"	1	170	170	
	M6-1	21"x21"	1	170	170	
4	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE
	M4-8	24"x12"	1	170	170	
	M5-1L	24"x24"	1	170	170	
5	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE
	M4-9L	30"x24"	1	170	170	
6	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE
	M4-9R	30"x24"	1	170	170	
7	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE
	M4-8	24"x12"	1	170	170	
	M6-1	21"x21"	1	170	170	
8	M4-8A	24"X18"	1	170	170	
9	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE
	M4-8	24"x12"	1	170	170	
	M6-1	21"x21"	1	170	170	LEFT
10	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE
	M4-9L	30"x24"	1	170	170	
	SUBTOTALS		23		3,910	

		TRAFFIC	CONTROL	DETOUR	SIGN SUMM	ARY		
					643.0900			
				APPROX.				
			NUMBER	SERVICE	SIGNS			
SIGN	SIGN	SIZE	IN	PERIOD				
				155				
NO.	CODE	W X H	SERVICE	(DAYS)	(DAYS)	REMARKS		
RIVERSIDE AVENUE DETOUR								
11	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE		
	M4-8	24"x12"	1	170	170			
	M5 - 1L	21"x21"	1	170	170			
12	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE		
			1	170	170	CLOSED TO THRU TRAFFIC		
13	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE		
	M5 - 1R	21"x21"	1	170	170			
14	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE		
	M4-9L	30"X24"	1	170	170			
15	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE		
	M4-8	24"x12"	1	170	170			
	M6 - 1	21"x21"	1	170	170			
16	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE		
	M5 - 1R	21"x21"	1	170	170			
17	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE		
			1	170	170	CLOSED TO THRU TRAFFIC		
18	M1-94	VARIES	1	170	170	RIVERSIDE AVENUE		
	M4-8	24"x12"	1	170	170			
	M5 - 1L	21"x21"	1	170	170			
	M4-20	24"x24"	1	170	170			
_	SUBTOTALS	<u> </u>	20		3,400			
	PROJECT T	TOTALS	43		7,310			

COUNTY: MARINETTE **HWY: RIVERSIDE AVENUE** SHEET PROJECT NO: 9995-00-64 MISCELLANEOUS QUANTITIES

FILE NAME: T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT DATE: 10/27/2017 2:24 PM PLOT BY : PLOT NAME : 030201\_mq PLOT SCALE : 1.000000:1.000000 WISDOT/CADDS SHEET 42

#### CONCRETE COLLARS FOR STORM SEWER PIPE

#### 520.8000 CONCRETE COLLARS FOR PIPE

STATION	LOCATION	EACH	REMARKS
0+93	8.4' LT	1	36" PIPE
1+52	18.6' LT	1	36" PIPE
1+67	17.9' LT	1	36" PIPE
4+46	2.7' LT	1	36" PIPE
4+57	15.0' LT	1	36" PIPE
4+64	10.4' LT	1	18" PIPE
4+65	9.3' LT	1	18" PIPE
4+73	43.7' RT	1	18" PIPE
4+74	63.3' RT	1	18" PIPE
12+25	11.1' LT	1	48" PIPE
12+43	36.0' RT	1	48" PIPE
25+51	38.5' RT	1	24" PIPE
35+08	34.6' RT	1	12" PIPE
	PROJECT TOTAL	13	

#### INTAKE CONDUITS AND SUMP PUMP LINES

			(CATEGORY 0020)	(CATEGORY 0020)	(CATEGORY 0020)
			SPV.0090.11	SPV.0090.12	SPV.0060.35
			4" INTAKE CONDUIT	4" SUMP PUMP LINE	4" CORE AND
			SDR 40 PVC	SDR 40 PVC	SEAL
ST	TATION	LOCATION	LF	LF	EACH
1	14+21	RT & LT	63		
1	19+96	RT		15	2
2	25+22	RT & LT	70		
2	28+60	RT & LT	66		
3	35+11	RT & LT	72		
		TOTALS	271	15	2

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET **E** 

FILE NAME : T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT BY : PLOT NAME : 030201\_mq PLOT SCALE : 1.000000:1.000000 WISDOT / CADDS SHEET 42

NOTE: ALL ITEMS SHEET ARE CAT UNLESS OTHER	EGORY 0020			
	RE	MOVING MANHOI (SANITARY)	_ES	
	STATION	LOCATION	SPV.0060.36 EACH	
	32+02 34+97	6' LT 23' LT	1	
	37+65	3' RT	1 1	
	PRO	DJECT TOTALS	3	
	OUTSIDE OF	SEWER TRENCH	1	

LOCATION

LT RT

TOTAL

STATION TO STATION

32+02 - 34+38

35+00 - 37+64

FILL AND ABANDON 18" SANITARY SEWER

LF

248

264

512

		SPV.0035.01	SPV.0035.02
		TRENCH	TRENCH
		EXCAVATION	BACKFILL
STATION TO STATION	DESCRIPTION	CY	CY
1+00 - 5+00	WATERMAIN TRENCH	259	259
3+00 - 5+00	SANITARY TRENCH	200	200
5+00 - 8+50	WATERMAIN TRENCH	227	227
5+00 - 8+50	SANITARY TRENCH	292	292
8+50 - 12+50	WATERMAIN TRENCH	52	52
8+50 - 12+50	SANITARY TRENCH	67	67
16+50 - 21+00	WATERMAIN TRENCH	233	233
21+00 - 25+50	WATERMAIN TRENCH	408	408
25+50 - 28+00	WATERMAIN TRENCH	227	227
28+00 - 32+00	WATERMAIN TRENCH	207	207
32+00 - 35+00	WATERMAIN TRENCH	156	156
32+00 - 35+00	SANITARY TRENCH	500	500
35+00 - 37+00	WATERMAIN TRENCH	156	207
35+00 - 37+00	SANITARY TRENCH	467	467
37+00 - 40+00	WATERMAIN TRENCH	156	156
37+00 - 40+00	SANITARY TRENCH	600	600
LATERALS	WATERMAIN TRENCH	500	500
LATERALS	SANITARY TRENCH	500	500
	SUBTOTALS	5207	5258
	SWELL	30%	15%
	TOTAL	6800	6100

TRENCH EXCAVATION AND BACKFILL

# SANITARY STRUCTURES

			SPV.0200.01 4' DIAMETER	611.0535 MANHOLE COVERS	RIM	INVERT
STRUCTURE			SANITARY MANHOLE	TYPE J - SPECIAL	<b>ELEVATION</b>	<b>ELEVATION</b>
NUMBER	STATION	LOCATION	VF	EACH		
1	3+78	C/L	5.53	1	125.32	119.09
2	5+80	16.1' RT	5.50	1	124.20	118.00
3	8+64	14.0' RT	6.63	1	123.10	115.77
4	11+23	17.5' RT	6.28	1	121.98	115.00
5	13+81	17.5' RT	6.56	1	121.49	114.23
6	31+98	C/L	11.69	1	116.19	103.80
7	33+47	C/L	12.20	1	116.18	103.28
8	34+97	C/L	12.10	1	115.58	102.78
9	37+74	C/L	12.28	1	114.83	101.85
_		TOTAL	79	9		

MANHOLE COVERS ARE PAID SEPERATELY AND ARE NOT INCLUDED IN THE VERTICAL HEIGHT OF THE NEW MANHOLES. MANHOLES WILL BE MEASURED BY THE VERTICAL FOOT FROM THE BOTTOM PIPE INVERT TO THE BOTTOM OF THE CASTING.

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET **E** 

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NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0020 UNLESS OTHERWISE NOTED.

# 4

# SANITARY SEWER SUMMARY

			SPV.0090.01 8" SANITARY SEWER SDR 35 PVC	SPV.0090.02 15" SANITARY SEWER SDR 35 PVC	SPV.0060.22 CONNECT TO 8" SANITARY SEWER	SPV.0060.23 CONNECT TO 15" SANITARY SEWER	SPV.0060.24 CONNECT TO 18" SANITARY SEWER
STATION TO STATION		LOCATION	LF	LF	EACH	EACH	EACH
3+08 - 3+78	LT	RIVERSIDE AVENUE	78				
3+78 - 5+80	RT	RIVERSIDE AVENUE	199				
5+80 - 8+64	RT	RIVERSIDE AVENUE	284				
8+64 - 11+23	RT	RIVERSIDE AVENUE	259				
11+23 - 13+81	RT	RIVERSIDE AVENUE	258				
13+81 - 16+33	RT	RIVERSIDE AVENUE	253				
699+05 - 700+00	C/L	N. RAYMOND STREET		95			
31+98 - 33+47	RT	RIVERSIDE AVENUE		149			
33+47 - 34+97	RT	RIVERSIDE AVENUE		150			
799+79 - 799+99	RT	STATE STREET	20				
34+97 - 37+74	C/L	RIVERSIDE AVENUE		278			
37+74 - 39+89	RT	RIVERSIDE AVENUE		216			
3+08	LT	RIVERSIDE AVENUE			1		
16+33	RT	RIVERSIDE AVENUE			1		
699+05	C/L	N. RAYMOND STREET					1
799+79	RT	STATE STREET			1		
39+89 RT RIVERSIDE AVEN		RIVERSIDE AVENUE				1	
		TOTAL	1351	888	3	1	1

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET **E** 

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NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0020 UNLESS OTHERWISE NOTED.

# SANITARY LATERAL SUMMARY

		SPV.0090.03 6" SANITARY LATERAL SDR 40 PVC	SPV.0060.01 8" X 6" SANITARY WYE	SPV.0060.02 15" X 6" SANITARY WYE	SPV.0060.25 CONNECT TO 6" SANITARY LATERAL	
STATION	LOCATION	LF	EACH	EACH	EACH	
4+47	RT	25	1		1	
5+51	RT	23	1		1	
6+43	RT	21	1		1	
6+91	RT	22	1		1	
7+51	RT	22	1		1	
9+58	RT	21	1		1	
11+27	RT	21	1		1	
12+12	RT	21	1		1	
13+31	RT	21	1		1	
14+52	RT	20	1		1	
15+79	RT	19	1		1	
33+35	RT	45		1	1	
36+69	RT	42		1	1	
37+28	RT	42		1	1	
38+54	RT	39		1	1	
39+04	RT	37		1	1	
	TOTAL	441	11	5	16	

#### WATER VALVES

		SPV.0060.04	SPV.0060.05	SPV.0060.06		
		6" GATE VALVE	8" GATE VALVE	10" GATE VALVE		
		& BOX	& BOX	& BOX		
STATION	LOCATION	EACH	EACH	EACH		
0+97	9' RT			1		
2+87	15.5' LT		1			
1+03	29.5' RT	1				
4+71	9.5' RT			1		
5+00	50.5' RT		1			
5+12	47' RT	1				
8+35	6' RT			1		
8+80	34' RT		1			
12+21	7.5' RT			1		
12+74	55' RT		1			
12+79	49' RT	1				
16+07	7.5' RT			1		
19+69	7.5' RT			1		
19+74	29' RT	1				
24+06	16.5' RT			1		
27+75	13.5' RT	1		1		
27+80	30' RT	1				
31+83	51' RT		1			
31+96	52' RT	1				
32+26	16' RT			1		
35+13	20.5' RT			1		
36+00	23' RT	1				
	TOTALS	8	5	10		

# FIRE HYDRANTS

			SPV.0060.07 6" HYDRANT 7'-0" BURY	SPV.0060.08 6" HYDRANT 7'-6" BURY
	STATION	LOCATION	EACH	EACH
_	STATION	LOCATION	LACIT	LACIT
	1+03	32.5' RT	1	
	5+15	47' RT		1
	12+86	47' RT	1	
	19+74	32' RT	1	
_	24+11	32.5' RT	1	
	27+80	38.5' RT	1	
	32+00	54' RT	1	
_	36+00	29.5' RT	1	
_		TOTALS	7	1

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET **E** 

FILE NAME : T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT NAME : 030201\_mq PLOT SCALE : 1.000000:1.000000 WISDOT / CADDS SHEET 42

	NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0020 UNLESS OTHERWISE NOTED.		WATERMAIN SUMMA	ARY			
				SPV.0090.05 6" WATERMAIN CLASS 52 D.I.P. W/POLYWRAP	SPV.0090.06 8" WATERMAIN CLASS 52 D.I.P. W/POLYWRAP	SPV.0090.07 10" WATERMAIN CLASS 52 D.I.P. W/POLYWRAP	
	STATION TO STATION 0+95 - 39+76		LOCATION	EACH	LF	LF	
3	0+85 - 0+95	LT LT	RIVERSIDE AVENUE RIVERSIDE AVENUE	 15		3900 	
	0+85 - 0+95 1+03 2+85 99+29 - 99+39	RT & LT RIVERSIDE AVE	HYDRANT LEAD RIVERSIDE AVENUE	24 	 55	 	BULKHEAD EXISTING PIPES
	99+29 - 99+39 99+39 - 99+91	RT RT	LESTER STREET LESTER STREET	15	 55		SPV.0080.01
	5+15	RT	HYDRANT LEAD	 14			BULKHEAD EXISTING PIPES
	199+24 - 199+34	RT	WILLIAMS STREET	15			STATION LOCATION ID
	199+34 - 199+92 299+26 - 299+87	RT RT	WILLIAMS STREET BURNS STREET	 	60 62	<del></del>	UNDISTRIBUTED 250 TOTALS 250
	12+86	RT	HYDRANT LEAD	15			TOTALS 250
	399+59 - 399+88 19+74	RT RT	PARK STREET HYDRANT LEAD	 25	30		
	19+74 24+11	RT	HYDRANT LEAD	25 16			
	27+80	RT	HYDRANT LEAD	25			
	698+97 - 699+07 699+07 - 699+89	RT RT	N. RAYMOND STREET N. RAYMOND STREET	15 	 83		

# WATERMAIN TIE INS

3900

10

355

			SPV.0060.13 STATION	SPV.0060.14 STATION	SPV.0060.15 LESTER	SPV.0060.16 WILLIAMS	SPV.0060.17 BURNS	SPV.0060.18 PARK	SPV.0060.19 N. RAYMOND	SPV.0060.20 STATE	SPV.0060.21 STATION	
	STATION	LOCATION	0+85	2+84	STREET	STREET	STREET	STREET	STREET	STREET	39+76	REMARKS
_	0+85	13' RT	1									6" DUO SLEEVE
	2+84	18.5' LT		1								8" DUO SLEEVE
	5+03	72' RT			1							6" DUO SLEEVE
	8+96	69' RT				1						6" DUO SLEEVE
	12+85	70' RT					1					2" UNION
_	16+51	28.5' RT						1				8" SOLID SLEEVE
	31+60	98' RT							1			6" DUO SLEEVE
	34+90	29' RT								1		8" SOLID SLEEVE
	39+76	18.5' RT									1	10" SOLID SLEEVE
		TOTALS	1	1	1	1	1	1	1	1	1	

SLEEVES ARE INCLUDED IN THE TIE IN PRICE.

HYDRANT LEAD

STATE STREET

HYDRANT LEAD

TOTAL

14

10

203

32+00

799+72 - 799+82

36+00

RT

LT

RT

PROJECT NO: 9995-00-64	HWY: RIVERSIDE AVENUE	COUNTY: MARINETTE	MISCELLANEOUS QUANTITIES	SHEET	E

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NOTE: ALL ITEMS ON THIS
SHEET ARE CATEGORY 002
<b>UNLESS OTHERWISE NOTE</b>

# WATER LATERAL SUMMARY

		SPV.0060.09	SPV.0060.10	SPV.0060.11	SPV.0060.12	SPV.0090.08	SPV.0090.09	SPV.0060.26	SPV.0060.27
		1" SERVICE	2" SERVICE	1" CURB	2" CURB	1" WATER	2" WATER	CONNECT TO	CONNECT TO
		TAP	TAP	STOP & BOX	STOP & BOX	LATERAL	LATERAL	1" WATER LATERAL	2" WATER LATERAL
STATION	LOCATION	EACH	EACH						
1+13	RT		1		1		25		1
4+29	RT	1		1		24		1	
5+50	RT	1		1		33		1	
6+31	RT	1		1		31		1	
6+93	RT	1		1		31		1	
7+48	RT	1		1		31		1	
9+56	RT	1		1		31		1	
10+97	RT	1		1		31		1	
12+08	RT	1		1		31		1	
12+85	BURNS ST						10		
13+49	RT	1		1		31		1	
14+57	RT	1		1		29		1	
15+51	RT	1		1		30		1	
24+20	RT	1		1		25		1	
25+81	RT	1		1		27		1	
26+94	RT	1		1		23		1	
28+46	RT	1		1		22		1	
29+92	RT	1		1		21		1	
33+22	RT	1		1		26		1	
35+31	RT	1		1		18		1	
36+19	RT	1		1		18		1	
37+20	RT	1		1		18		1	
38+43	RT	1		1		18		1	
38+99	RT	1		1		18		1	
	TOTAL	22	1	22	1	567	35	22	1

# INSULATE WATERMAIN

SPV.0090.10
INSULATE
WATERMAIN

				4 4 / ( ) E   (   V   V   V   V
	STATION TO STATION		LOCATION	<u>LF</u>
_	8+20 - 9+20	LT	RIVERSIDE AVENUE	100
	12+00 - 13+00	LT	RIVERSIDE AVENUE	100
	31+50 - 31+85	LT	RIVERSIDE AVENUE	35
	199+60 - 199+90	RT	WILLIAMS STREET	30
	299+60 - 299+88	RT	<b>BURNS STREET</b>	30
			TOTALS	295

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET E

NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0020 UNLESS OTHERWISE NOTED.

#### WATERMAIN FITTINGS

		10" X 8"	10" X 6"	8" X 6"	10" X 6"	8" X 6"	10" 45 DEG.	10" 22 DEG.	10" 11 DEG.	8" 45 DEG.	6" 45 DEG.	8" 22 DEG.	8" MECH.	10" MEGA	8" MEGA	6" MEGA
		TEE	TEE	TEE	REDUCER	REDUCER	BEND	BEND	BEND	BEND	BEND	BEND	CAP	LUG	LUG	LUG
STATION TO STATION	LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
0+85 - 0+95	RT				1						2			3		7
1+03	RT		1											2		4
1+40	RT						1							2		
2+12	RT							1						2		
2+85	RT & LT	1								1		1		2	9	
4+35 - 4+78	RT						4	1						12		
5+03 - 5+15	RT	1		1		1				3	2			2	12	11
5+80	RT								1					2		
8+35 - 8+96	RT	1				1			1		2	1		6	6	7
12+21 - 12+85	RT	1		1								1	1	4	8	4
16+07 - 16+51	RT	1										1		4	5	
19+69 - 19+74	RT		1											4		4
20+85	RT							1						2		
22+53	RT							1						2		
24+06 - 24+11	RT		1											4		4
27+75 - 27+80	RT		1											4		4
31+66 - 32+26	RT	1		1		1	2	1			2	1		10	8	7
33+47	RT							1								
34+89 - 35+13	RT	1							1					6	3	
36+00	RT		1											2		4
39+66 - 39+76	RT						2							6		
TOTALS		7	5	3	1	3	9	6	3	4	8	5	1	81	51	56
WEIGHT PER EACH		111	93	80	47	40	81	78	75	59	38	51	25	32	21	17
TOTAL WEIGHT		777	465	240	47	120	729	468	225	236	304	255	25	2592	1071	952

SPV.0195.01 WATERMAIN FITTINGS TOTAL TONS = 4.25

# INCIDENTAL REMOVALS (FOR BIDDING PURPOSES ONLY)

		8" SANITARY	18" SANITARY	SANITARY	<b>HYDRANTS</b>	WATER VALVE
		SEWER	SEWER	MANHOLES		BOXES
STATION TO STATION	LOCATION	LF	LF	EACH	EACH	EACH
0+68 - 40+00	RIVERSIDE AVENUE	1351	531	4	5	23

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET E

FILE NAME : T:\1082704.05\Cadd\Quants\030201\_mq.ppt PLOT SCALE : 1.000000:1.000000 WISDOT/CADDS SHEET 42

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STREET	LIGHTING	WIRING AND	<u>CONDUIT</u>
CE 2 0	225	CEE	0.000

		STREET LIGHTING WIT	TING AND CONDOL	<u>L</u>	
		652.0225	655.0620	655.0615	655.0610
		CONDUIT RIGID NONMETALLIC	ELECTRICAL WIRE	ELECTRICAL WIRE	ELECTRICAL WIRE
		SCHEDULE 40	LIGHTING	LIGHTING	LIGHTING
DESCRIPTION	DESCRIPTION	2-INCH	8 AWG	10 AWG	12 AWG
FROM	ТО	L.F.	L.F.	L.F.	L.F.
A-1-1	A-1-2	95	190	95	90
A-1-2	A-1-3	100	200	100	90
A-1-3	A-1-4	170	340	170	90
A-1-4	A-1-39	75	150	75	90
A-1-39	A-1-40	130	260	130	90
A-1-40	A-1-41	140	280	140	90
A-1-41	A-1-5	180	360	180	90
A-1-5	A-1-6	120	240	120	90
A-1-6	A-1-7	100	200	100	90
A-1-7	A-1-8	105	210	105	90
A-1-8	LCC-A	40	80	40	90
LCC-A	A-2-9	90	180	90	
A-2-9	A-2-10	105	210	105	90
A-2-10	A-2-11	105	210	105	90
A-2-11	A-2-12	80	160	80	90
A-2-12	B-1-13	115	230	115	90
B-1-13	B-1-14	130	260	130	90
B-1-14	B-1-15	135	270	135	90
B-1-15	B-1-16	120	240	120	90
B-1-16	B-1-17	110	220	110	90
B-1-17	B-1-18	110	220	110	90
B-1-18	B-1-19	105	210	105	90
B-1-19	B-1-20	100	200	100	90
B-1-20	B-1-21	115	230	115	90
B-1-21	B-1-22	105	210	105	90
B-1-22	LCC-B	65	130	65	90
LCC-B	B-2-23	75	150	75	
B-2-23	B-2-24	105	210	105	90
B-2-24	B-2-25	105	210	105	90
B-2-25	B-2-26	105	210	105	90
	SUBTOTALS	3,235	6,470	3,235	2,520

#### STREET LIGHTING WIRING AND CONDUIT

		652.0225	655.0620	655.0615	655.0610
		CONDUIT RIGID NONMETALLIC	ELECTRICAL WIRE	ELECTRICAL WIRE	ELECTRICAL WIRE
		SCHEDULE 40	LIGHTING	LIGHTING	LIGHTING
DESCRIPTION	DESCRIPTION	2-INCH	8 AWG	10 AWG	12 AWG
FROM	ТО	L.F.	L.F.	L.F.	L.F.
B-2-26	B-2-27	110	220	110	90
B-2-27	B-2-28	105	210	105	90
B-2-28	B-2-29	110	220	110	90
B-2-29	B-2-30	105	210	105	90
B-2-30	C-1-31	110	220	110	90
C-1-31	C-1-32	105	210	105	90
C-1-32	C-1-33	120	240	120	90
C-1-33	C-1-34	120	240	120	90
C-1-34	C-1-35	125	250	125	90
C-1-35	C-1-36	90	180	90	90
C-1-36	C-1-37	100	200	100	90
C-1-37	C-1-38	105	210	105	90
C-1-38	LCC-C	145	290	145	90
	SUBTOTALS	1,450	2,900	1,450	1,170
	PROJECT TOTALS	4,685	9,370	4,685	3,690

#### LIGHTING CONTROL CABINET

SPV.0060.38 654.0215 LIGHTING CONTROL CABINETS 120/240 30-INCH CONCRETE CONTROL CABINET BLACK BASES

						TYPE 9
_	DESCRIPTION	STATION	DIRECTION	LOCATION	EACH	EACH
	LCC-A	8+50	RT	58.5'	1	1
	LCC-B	23+40	RT	53.2'	1	1

PROJECT TOTALS

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE **COUNTY: MARINETTE MISCELLANEOUS QUANTITIES** SHEET

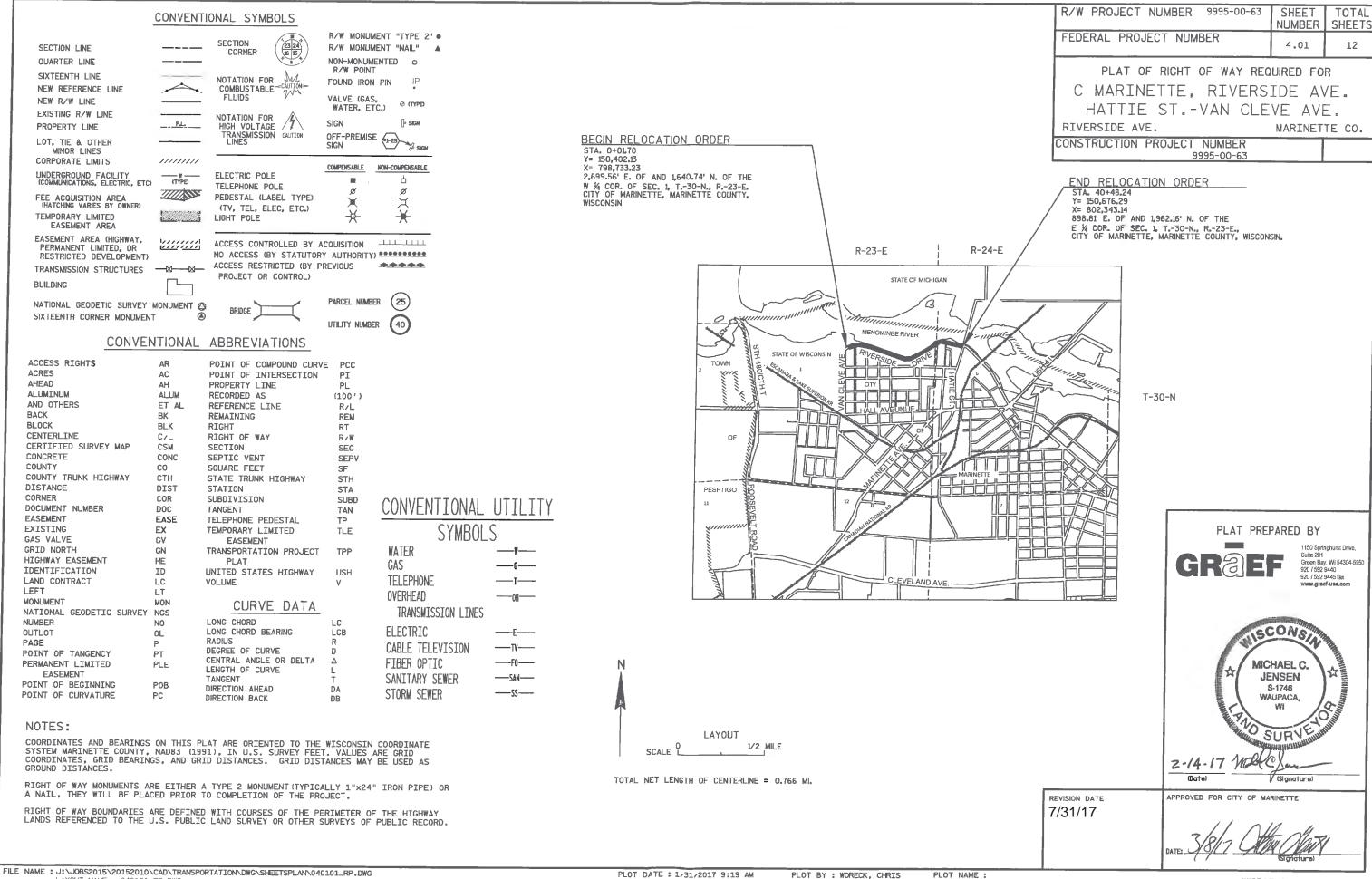
#### **LUMINAIRE AND POLE MOUNTINGS**

				SPV.0060.37	654.0101
				DECORATIVE LUMINAIRE AND	CONCRETE BASES
				POLE	TYPE 1
DESCRIPTION	STATION	DIRECTION	LOCATION	EACH	EACH
A-1-1	0+75	RT	34.1'	1	1
A-1-2	1+80	RT	37.4'	1	1
A-1-3	2+95	RT	40.0'	1	1
A-1-4	4+60	RT	46.0'	1	1
A-1-39	1+40	LT	31.3'	1	1
A-1-40	2+45	LT	31.1'	1	1
A-1-41	3+70	LT	29.1'	1	1
A-1-5	5+55	RT	28.2'	1	1
A-1-6	6+20	RT	28.6'	1	1
A-1-7	7+45	RT	28.9'	1	1
A-1-8	8+30	RT	29.4'	1	1
A-2-9	9+40	RT	27.9'	1	1
A-2-10	10+45	RT	27.7'	1	1
A-2-11	11+45	RT	29.0'	1	1
A-2-12	12+25	RT	29.8'	1	1
B-1-13	13+25	RT	29.1'	1	1
B-1-14	14+25	RT	29.3'	1	1
B-1-15	16+25	RT	29.2'	1	1
B-1-16	17+15	RT	29.6'	1	1
B-1-17	18+15	RT	29.7'	1	1
B-1-18	19+20	RT	30.0'	1	1
B-1-19	20+20	RT	34.7'	1	1
B-1-20	21+10	RT	31.9'	1	1
B-1-21	22+00	RT	31.4'	1	1
B-1-22	23+00	RT	33.7'	1	1
B-2-23	24+00	RT	32.2'	1	1
B-2-24	25+00	RT	29.9'	1	1
B-2-25	26+00	RT	30.0'	1	1
B-2-26	27+00	RT	30.4'	1	1
B-2-27	28+00	RT	29.6'	1	1
	SUBTOTALS			30	30

#### **LUMINAIRE AND POLE MOUNTINGS**

				SPV.0060.37	654.0101
				DECORATIVE LUMINAIRE AND	CONCRETE BASES
				POLE	TYPE 1
DESCRIPTION	STATION	DIRECTION	LOCATION	EACH	EACH
B-2-28	29+00	RT	28.5'	1	1
B-2-29	30+00	RT	29.3'	1	1
B-2-30	31+00	RT	29.2'	1	1
C-1-31	32+25	RT	31.1'	1	1
C-1-32	33+25	RT	31.9'	1	1
C-1-33	34+25	RT	32.0'	1	1
C-1-34	35+45	RT	29.8'	1	1
C-1-35	36+60	RT	29.6'	1	1
C-1-36	37+40	RT	29.7'	1	1
C-1-37	38+35	RT	29.4'	1	1
C-1-38	39+45	RT	29.3'	1	1
	SUBTOTALS			11	11
	PROJECT TOTA	ALS		41	41

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET **E** 



# SCHEDULE OF LANDS & INTERESTS REQUIRED

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

\* DENOTES AREAS COMPUTED

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	NEW ACRES	EXISTING ACRES	TOTAL ACRES	TLE ACRES	PLE ACRES	PARCE NUMBE
1	4.06	KIMBERLY-CLARK CORP.	FEE & TLE	0.051	0.251	0.302	0.109	0.000	1
2	4.06	ADAM & KATHY A. DEWITT	TLE	0.000	0.000	0.000	0.016	0.000	2
3	4.06	N.E.W. HYDRO LLC.	TLE & PLE	0.000	0.000	0.000	0.025	0.011	3
4	4.06	DONNA H. & WARREN A. THURSON	TLE	0.000	0.000	0.000	0.007	0.000	4
6	4.06	EARL A. & KATHALEEN L. DAU	TLE	0.000	0.000	0.000	0.014	0.000	6
7	4.06	WILLIAM R. TIPPLE	TLE	0.000	0.000	0.000	0.013	0.000	7
8	4.06-4.07	ALLEN R. & SHARON M. BREY	TLE & PLE	0.000	0.000	0.000	0.028	0.010	8
9	4.07	RAYMOND G. & BONNIE R. BJORKMAN TRUST	TLE & PLE	0.000	0.000	0.000	0.005	0.019	9
11	4.07	JAMES H. & MARLENE ENGLAND	TLE	0.000	0.000	0.000	0.029	0.000	11
12	4.07	RAYMOND G. & BONNIE R. BJORKMAN TRUST	TLE	0.000	0.000	0.000	0.029	0.000	12
13	4.07	LINDA S. O'BRIEN TRUST	TLE	0.000	0.000	0.000	0.015	0.000	13
14	4.07	CITY OF MARINETTE	TLE	0.000	0.000	0.000	0.007	0.000	14
16	4.07-4.08	ELISABETH JAEGER, PENELOPE BUTMAN, BARBARA KOPISH & JOHN HESSLER TRUST	TLE	0.000	0.000	0.000	0.022	0.000	16
47	4.00		TIF	0.000	0.000	0.000	0.000	0.000	47
17	4.08	WAYNE T. & BARBARA J. KOPISH	TLE	0.000	0.000	0.000	0.022	0.000	17
18	4.08	JOHN W. & PAULETTE S. ENDERS	TLE	0.000	0.000	0.000	0.051	0.000	18
19	4.08	RAYMOND G. & BONNIE R. BJORKMAN TRUST	TLE	0.000	0.000	0.000	0.004	0.000	19
21	4.08-4.09	MERRITT R. & JOYCE H. BAUMAN	FEE & TLE	0.001	0.000	0.001	0.059	0.000	21
22	4.09	WALTER A. JR. & MARY J. MUELLER	FEE & TLE	0.004	0.000	0.004	0.023	0.000	22
23	4.09	ROGER J. JR. & SUSAN K. WILLIAMS	FEE,TLE & PLE	0.007	0.000	0.007	0.017	0.003	23
24	4.09	SANFORD C. & EMELYN S. SEVERSON TRUST	FEE & TLE	0.025	0.000	0.025	0.012	0.000	24
26	4.09	ANDREW J. THANOS, KANDANCE KAROL HIGLEY, JEFFERY C. THANOS, JARED J. THANOS, JOEL K. THANOS, GEOFFREY S. FARR	FEE,TLE	0.025	0.000	0.025	0.015	0.000	26
27	4.09-4.10	BARKER & STEIN LLC.	FEE & TLE	0.010	0.000	0.010	0.034	0.000	27
28	4.10	WILLIAM F. & JUDITH K. ALWIN	TLE	0.000	0.000	0.000	0.018	0.000	28
29	4.10-4.12	N.E.W. HYDRO LLC.	TLE & PLE	0.000	0.000	0.000	0.145	0.047	29
31	4.10	DAVID POLZIN, DEBRA K. VAN & SCOTT POLZIN	TLE	0.000	0.000	0.000	0.022	0.000	31
32	4.10	ROBERT S. JR. & DEBORAH M. KROLL TRUST	TLE	0.000	0.000	0.000	0.021	0.000	32
33	4.10-4.11	MARK S. DAVENPORT & MARIA LANCIA	FEE & TLE	0.002	0.000	0.002	0.024	0.000	33
34	4.11	MARY L. STAUDENMAIER TRUST	TLE	0.000	0.000	0.000	0.034	0.000	34
36	4.11	RODNEY J. & LYNDA K. TAFELSKI	TLE	0.000	0.000	0.000	0.012	0.000	36
37	4.11-4.12	ROBIN ISLE	TLE	0.000	0.000	0.000	0.010	0.000	37
38	4.12	KEVIN R. & MELISSA J. HENRIKSEN	TLE	0.000	0.000	0.000	0.010	0.000	38
39	4.12	ERIC & SUSAN CRAVER	TLE	0.000	0.000	0.000	0.010	0.000	39
41	4.12	MARTHA ARNOLD TRUST	TLE	0.000	0.000	0.000	0.009	0.000	41
42	4.12	LINDA, HACKERT & MAXINE L. OLESZAK	TLE	0.000	0.000	0.000	0.006	0.000	42
70	4.06, 4.11	WISCONSIN PUBLIC SERVICE (GAS)	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	70
71	4.06	CITY OF MARINETTE PUBLIC WORKS (WATER)	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	71
72	4.06	CENTURYLINK	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	72
73	4.06-4.09	WISCONSIN PUBLIC SERVICE (ELECTRIC)	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	73
74	4.06	TIME WARNER CABLE	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	74
75	4.06	CITY OF MARINETTE PUBLIC WORKS (SANITARY)	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	75

FILE NAME : J:\JOBS2015\20152010\CAD\TRANSPORTATION\DWG\SHEETSPLAN\040102\_RP.DWG

DATE 2-7-2017

COUNTY: MARINETTE

REVISION DATE 7/31/17: Revised Parcels 1,2,3,29; Removed Parcel 76

PLOT DATE : 7/31/2017 2:35 PM

CONSTRUCTION PROJECT NUMBER 9995-00-63

HWY: RIVERSIDE AVE.

PLOT BY: SCHULTZ, ANDREW K. PLOT NAME:

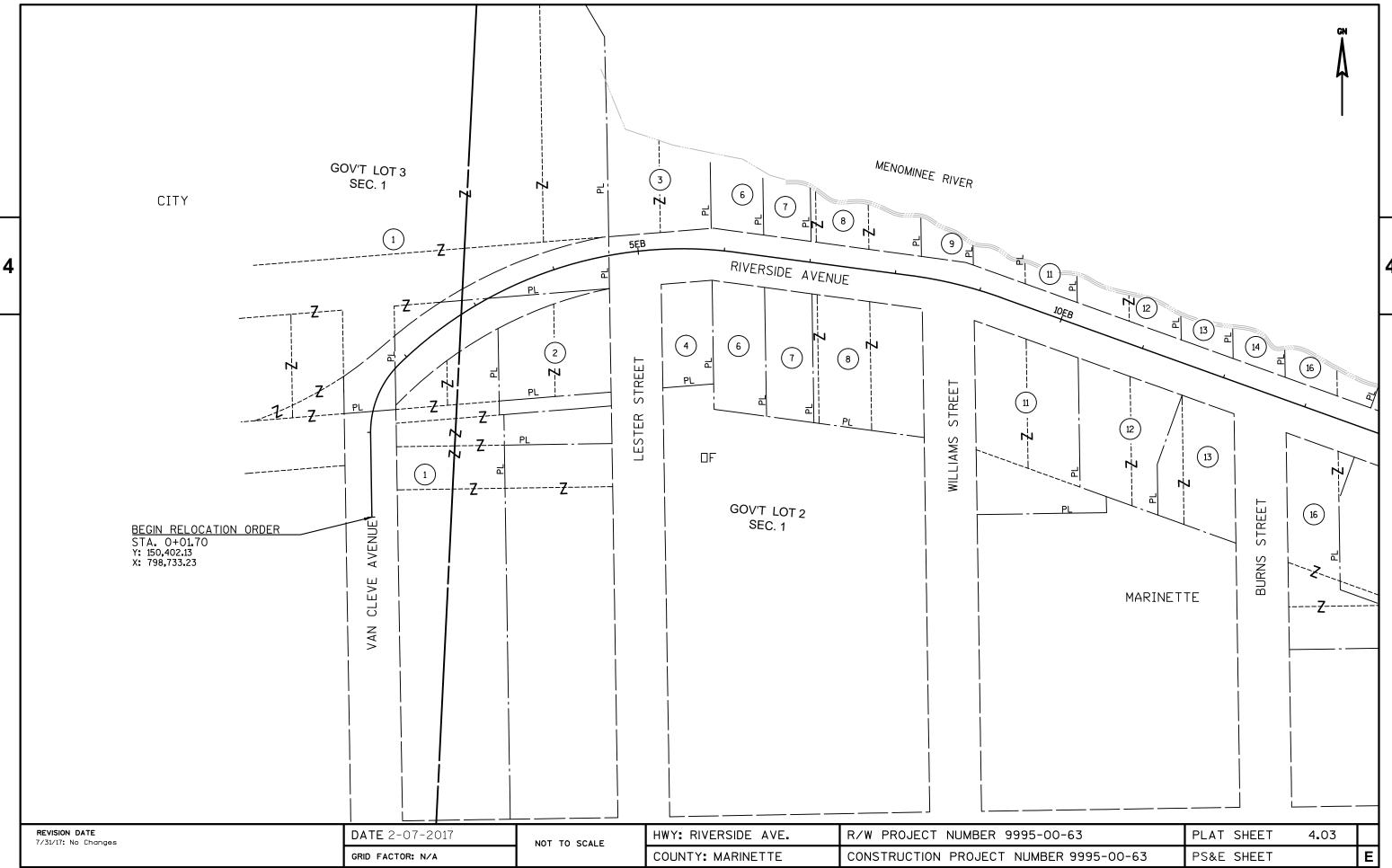
R/W PROJECT NUMBER 9995-00-63

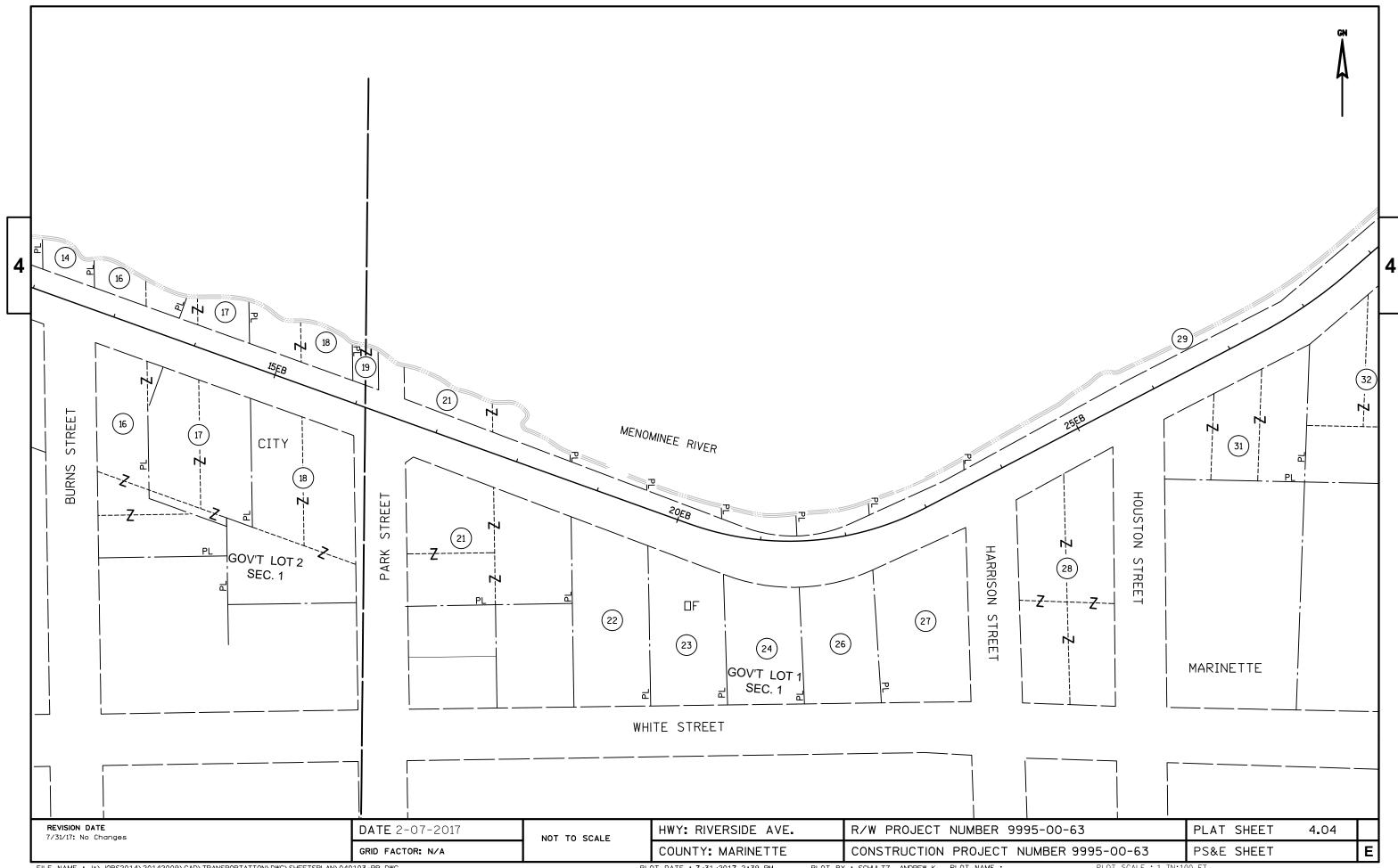
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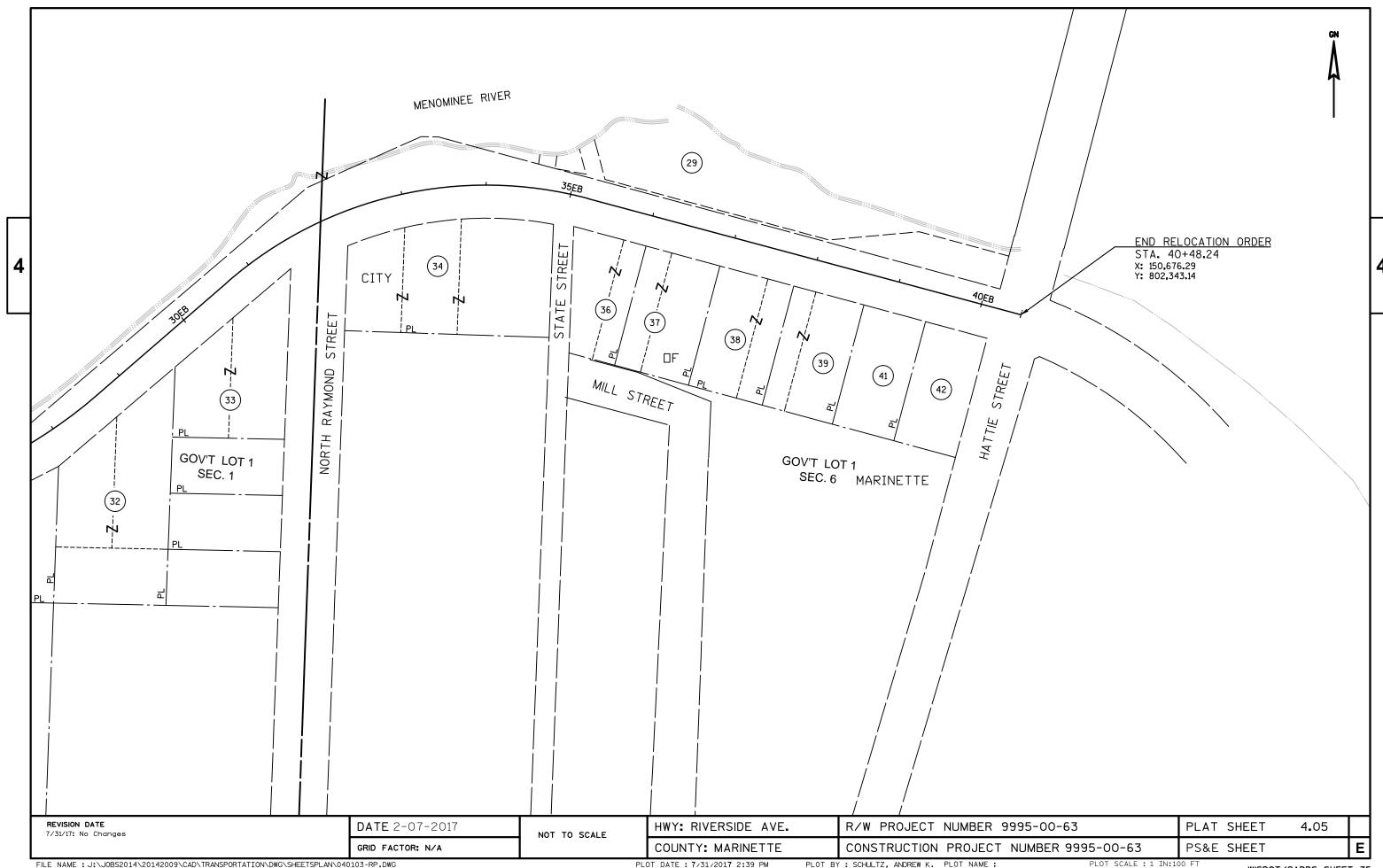
PLAT SHEET

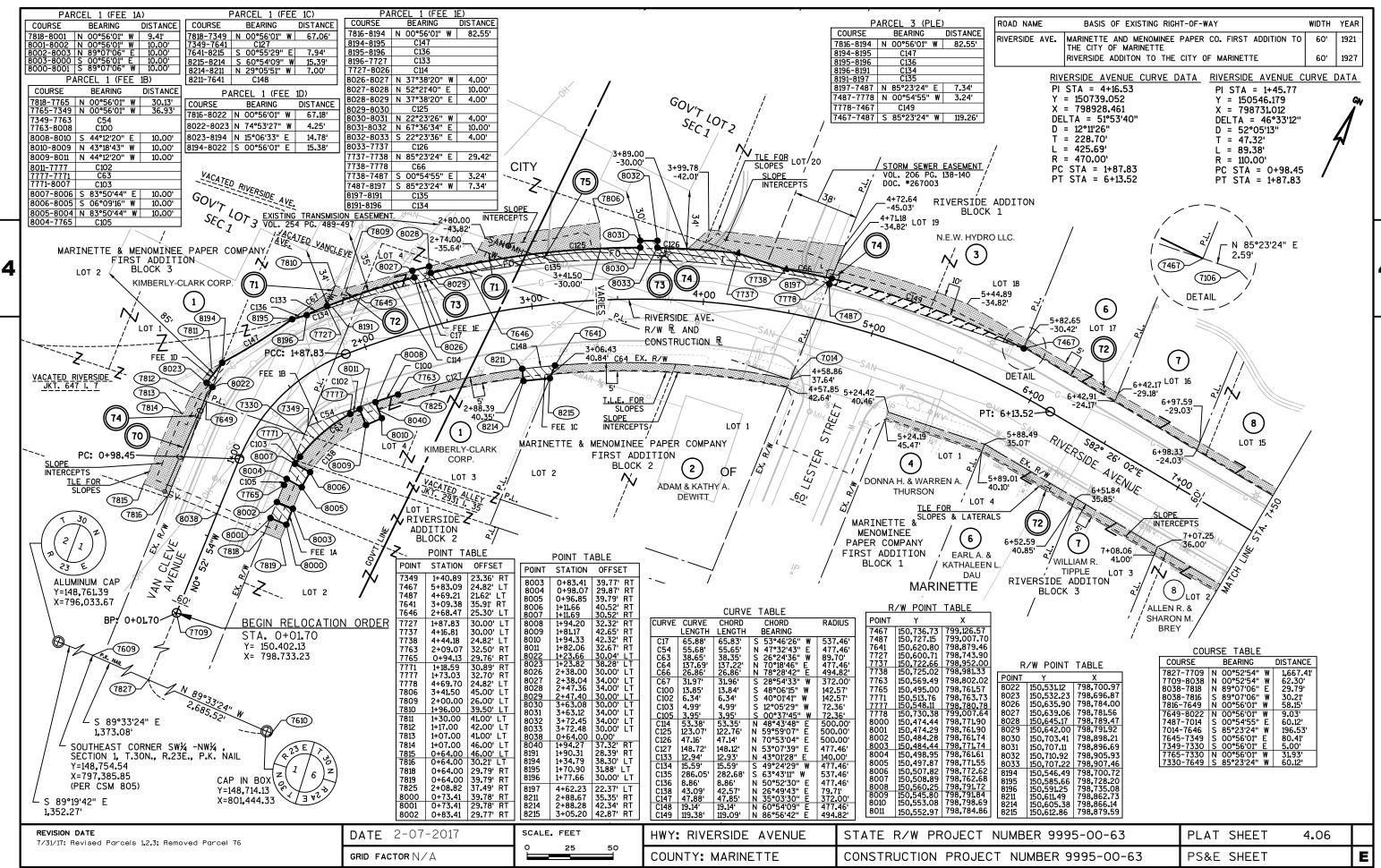
WISDOT/CADDS SHEET 75

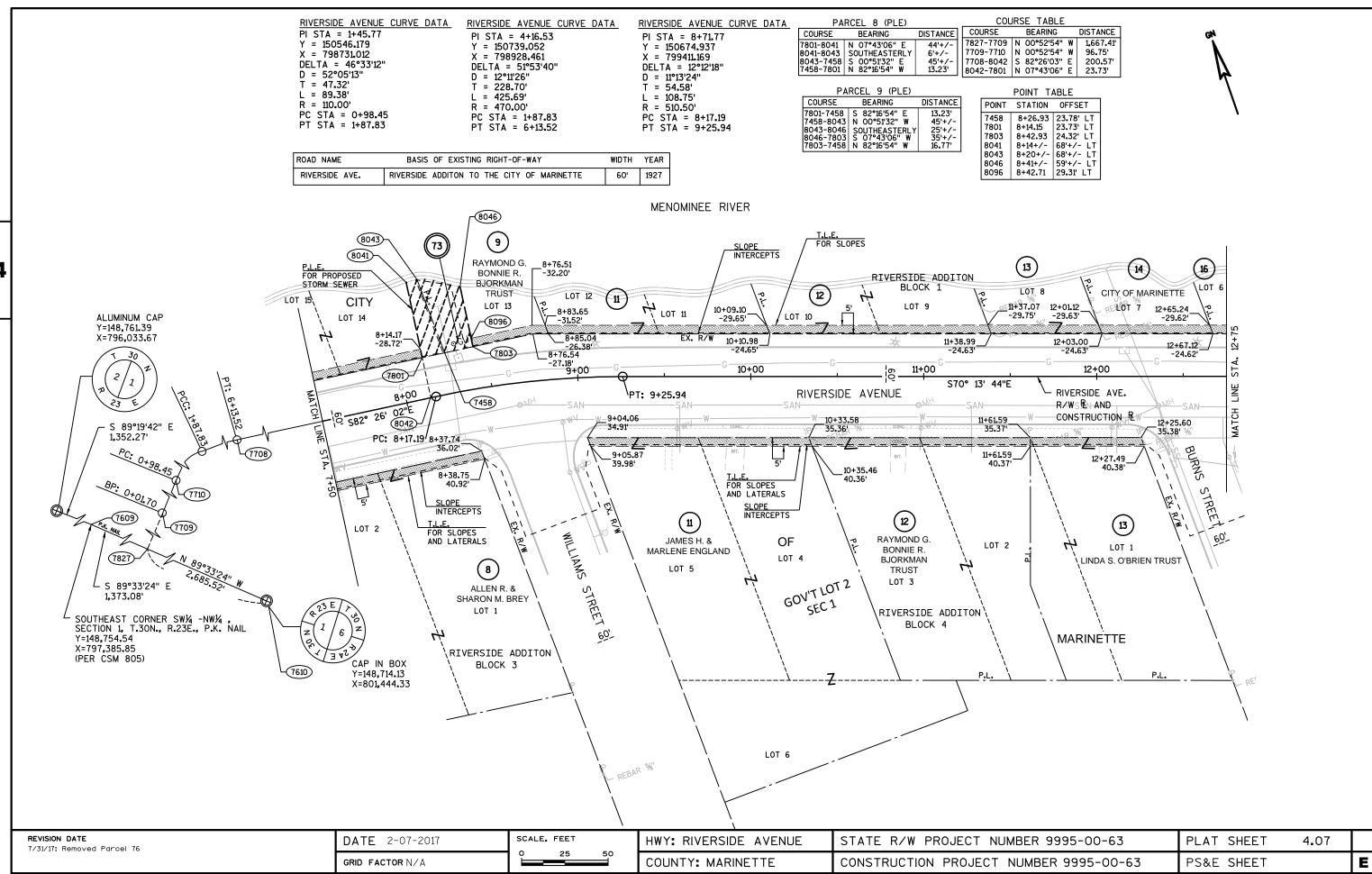
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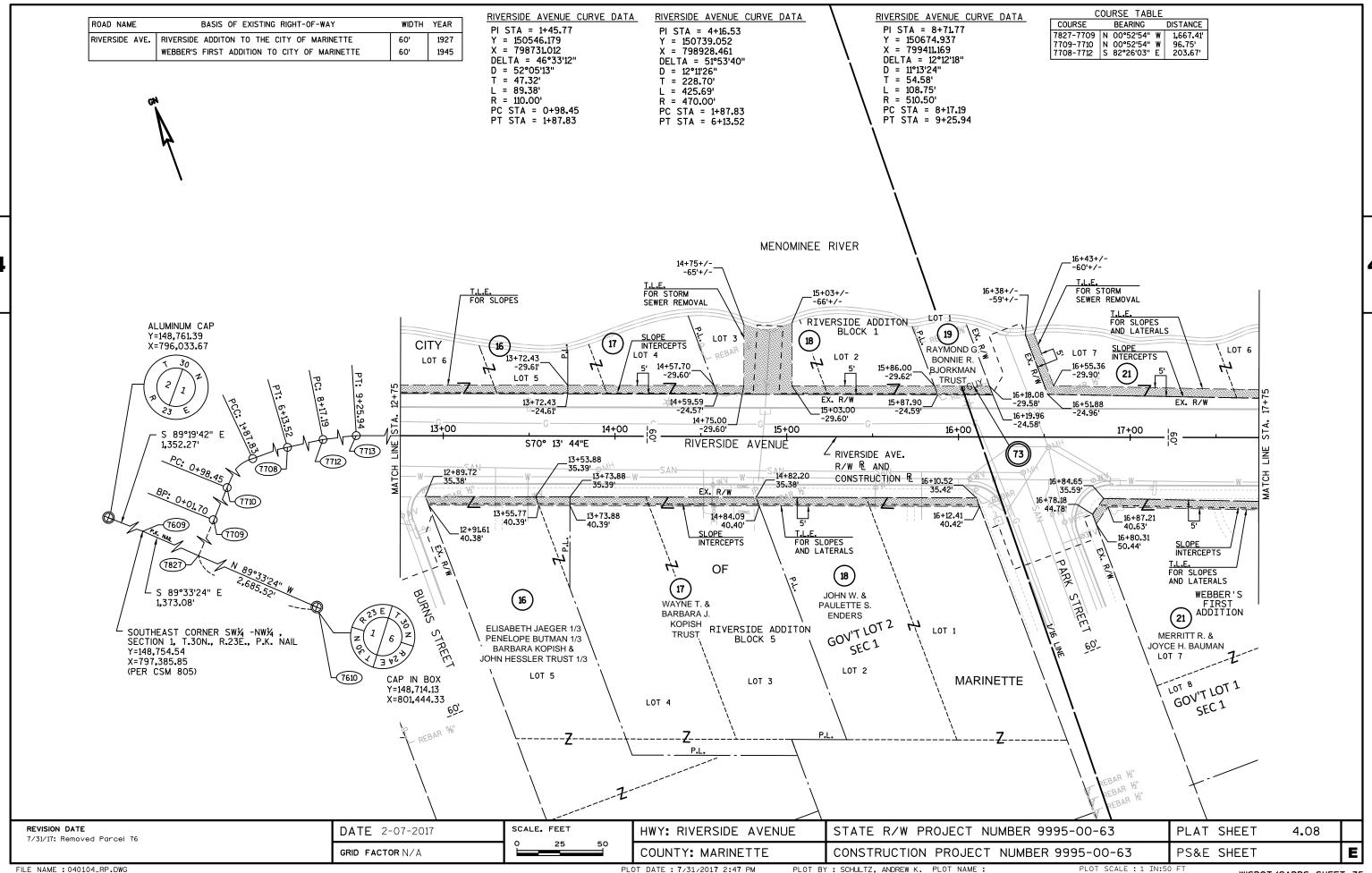


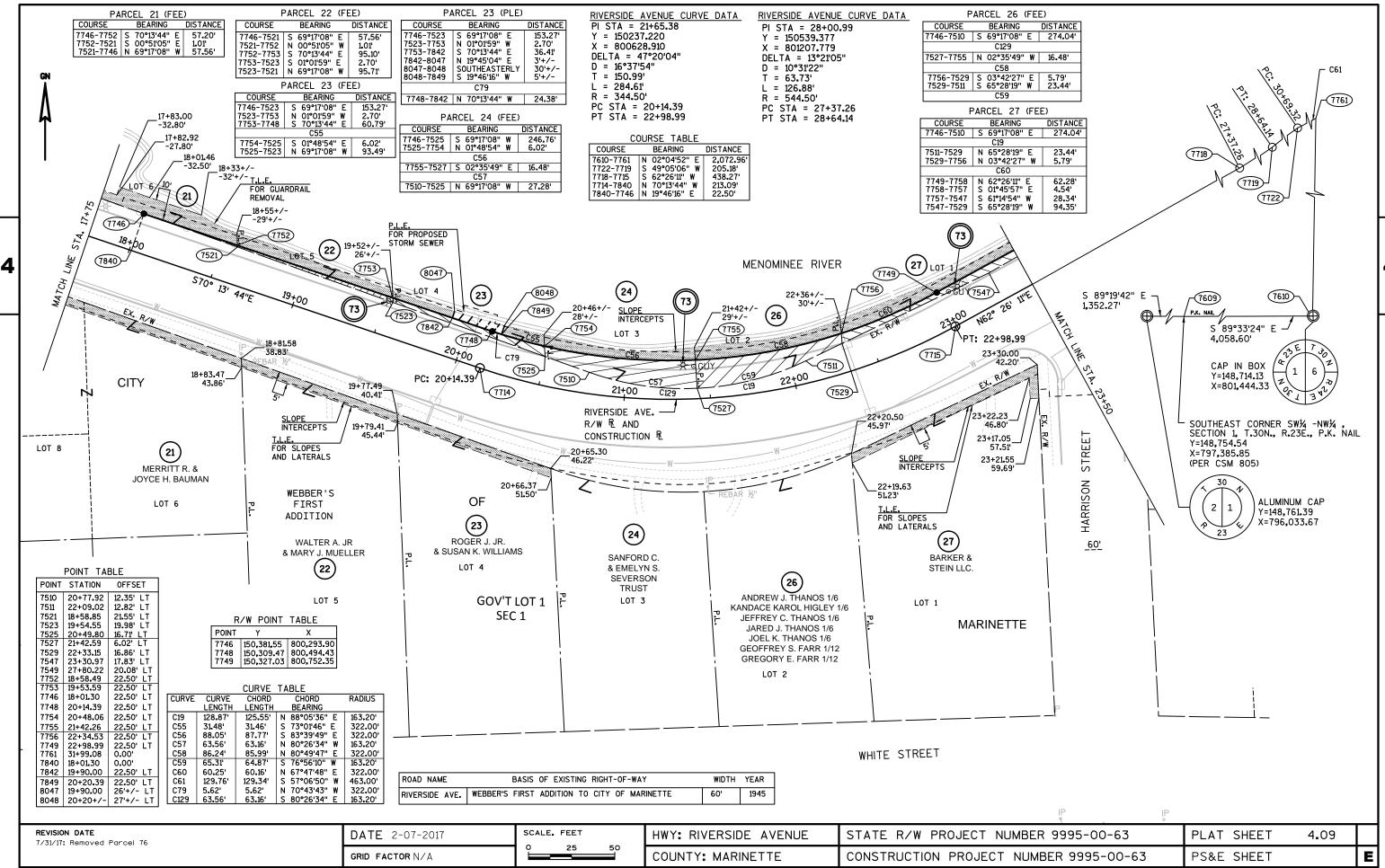
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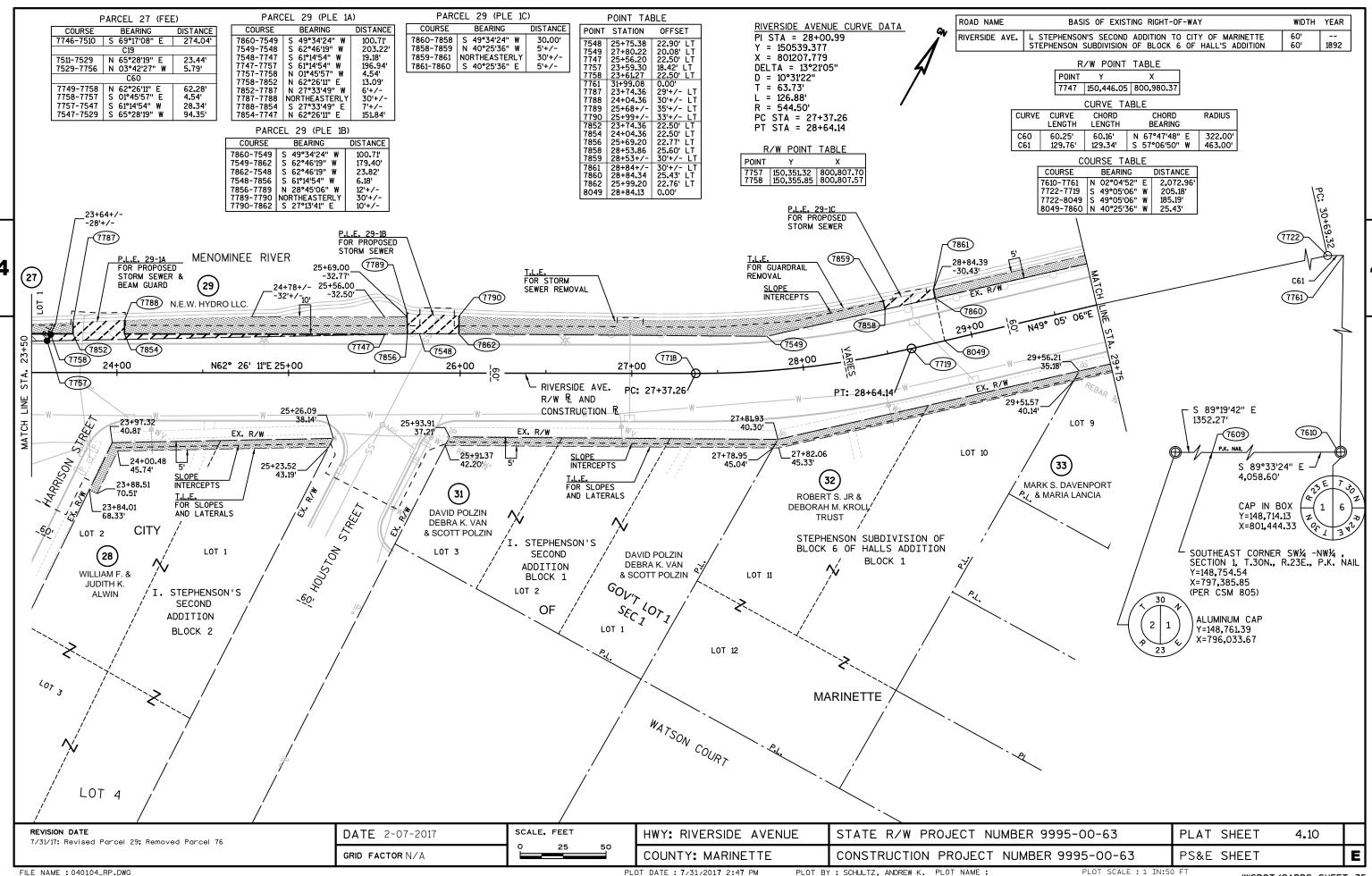
PLOT BY: SCHULTZ, ANDREW K. PLOT NAME:

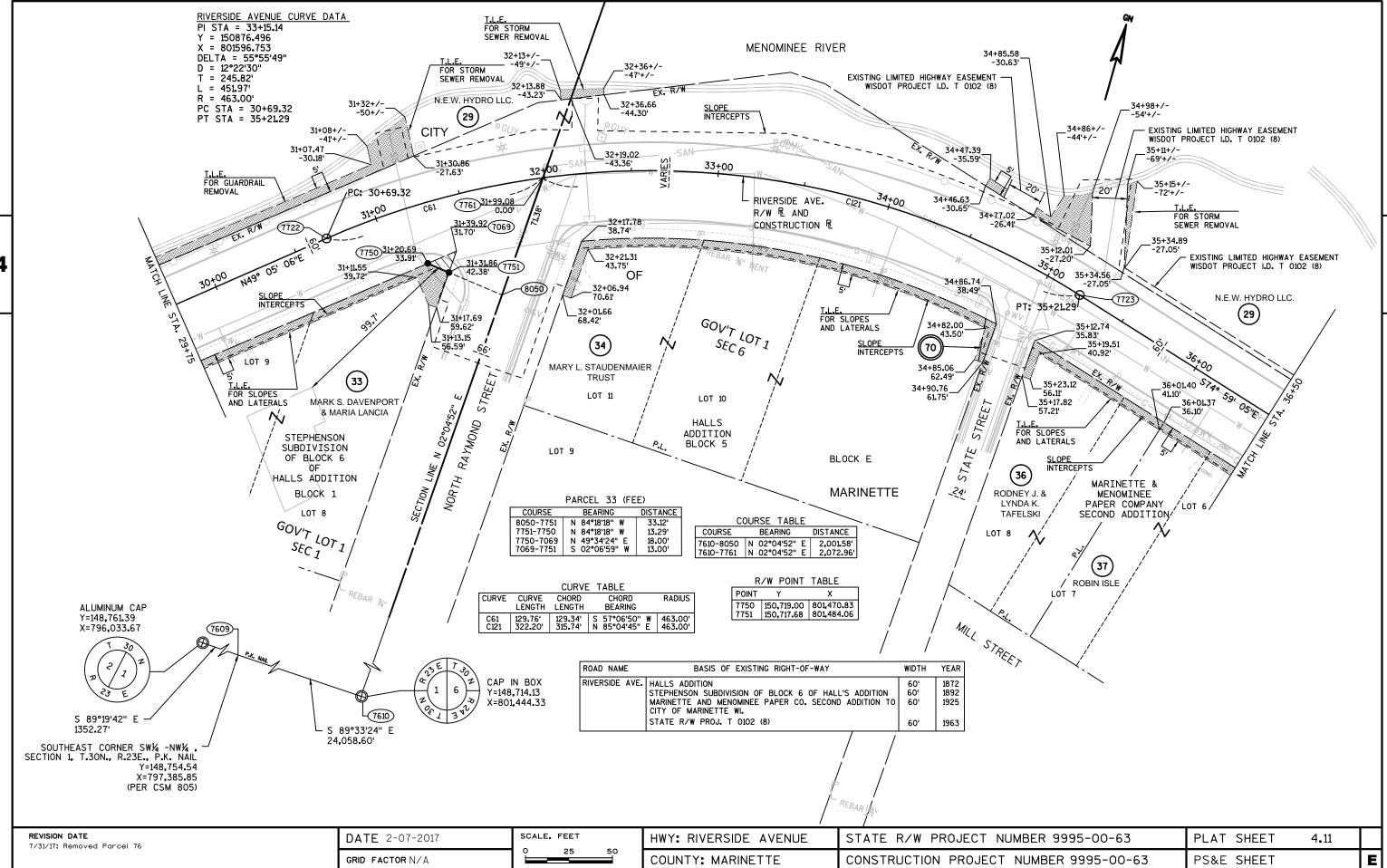
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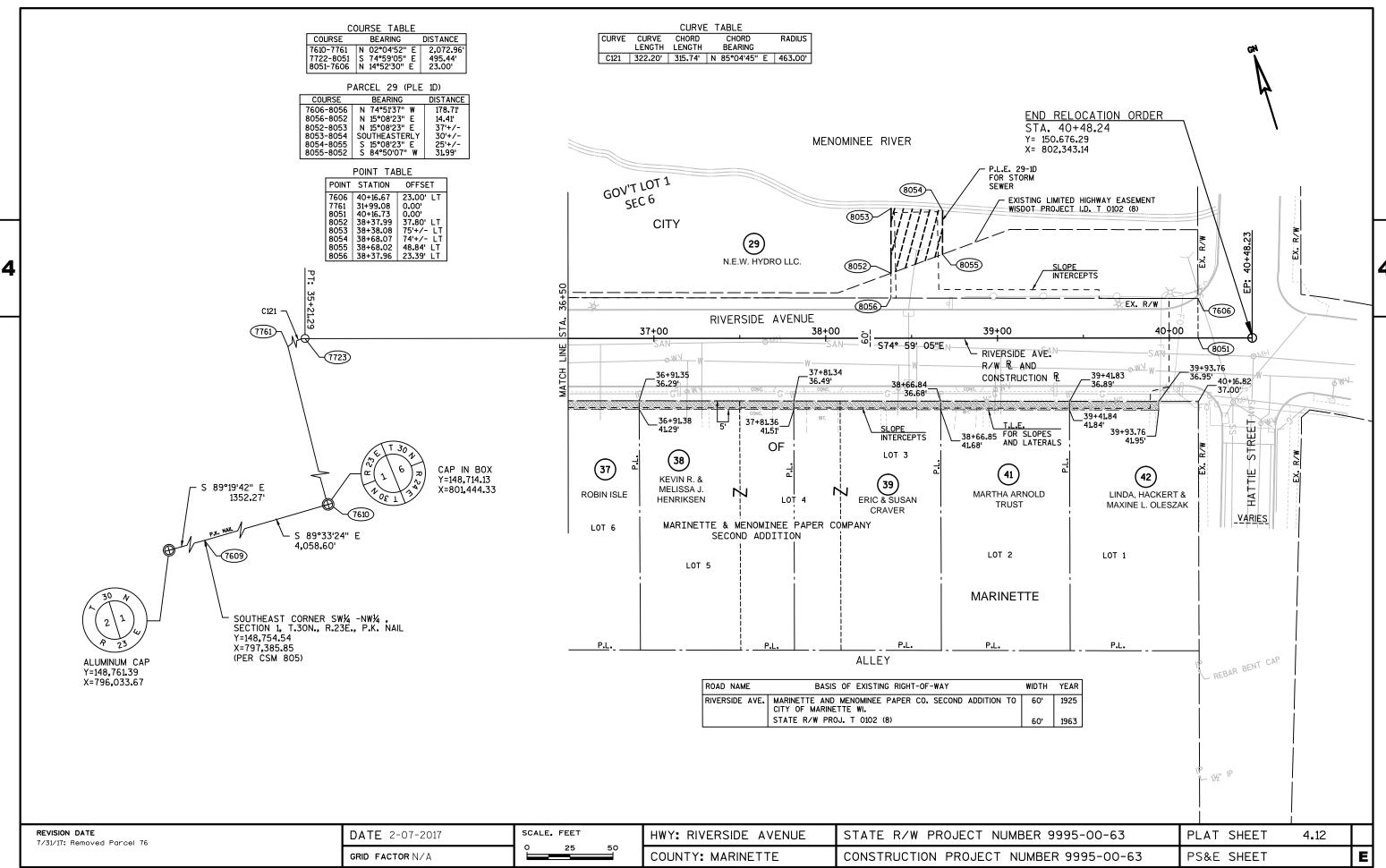
WISDOT/CADDS SHEET 75

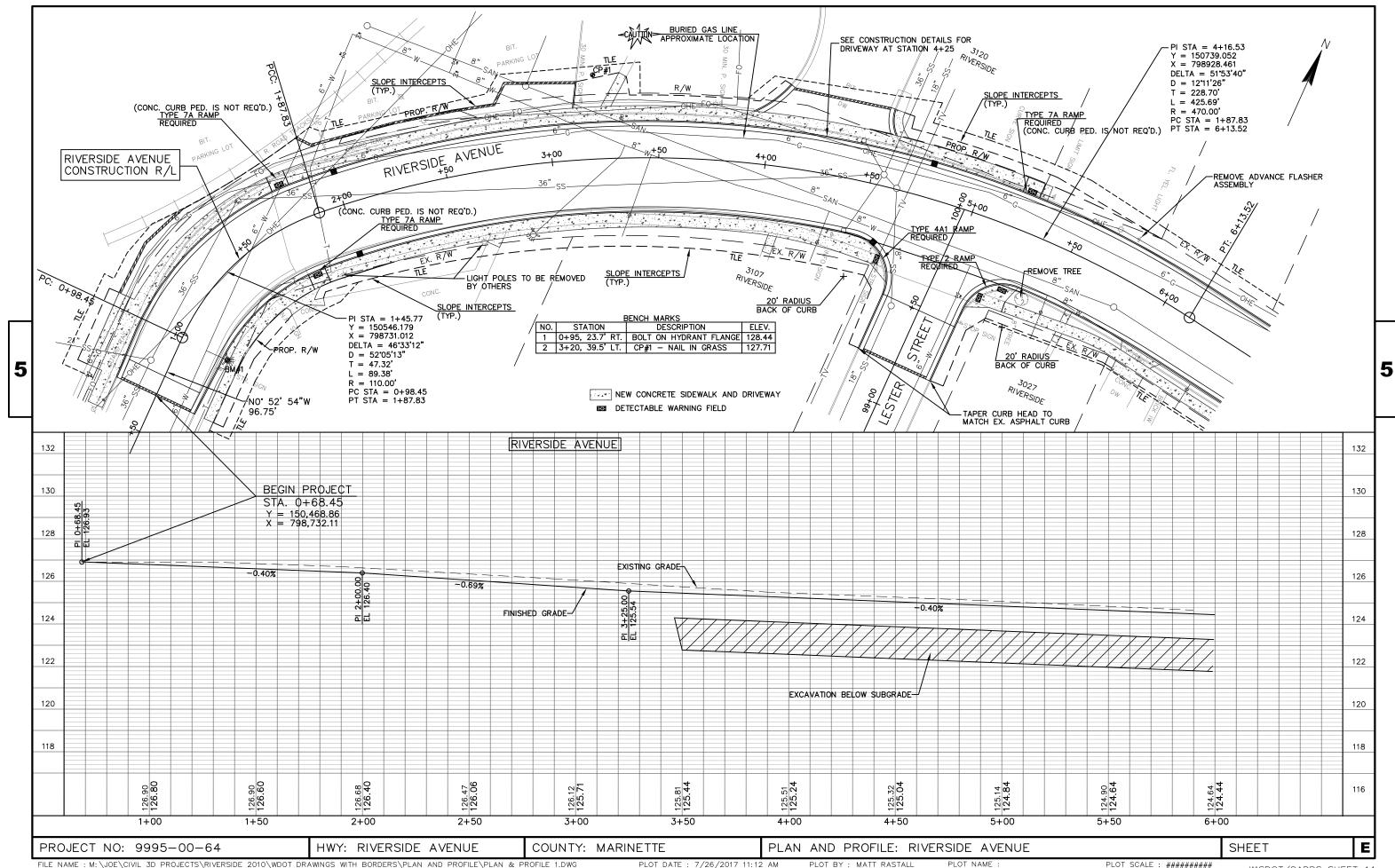


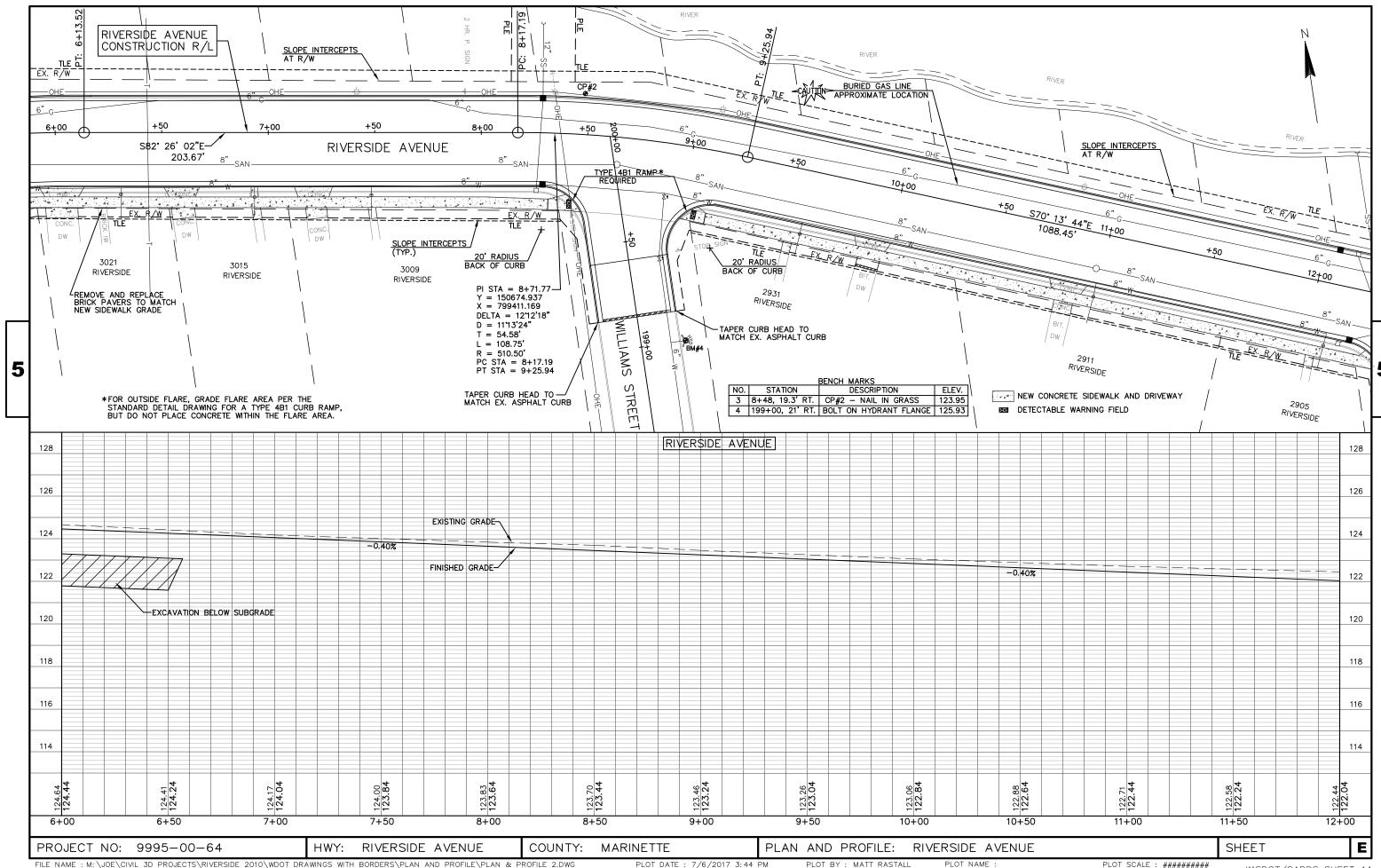


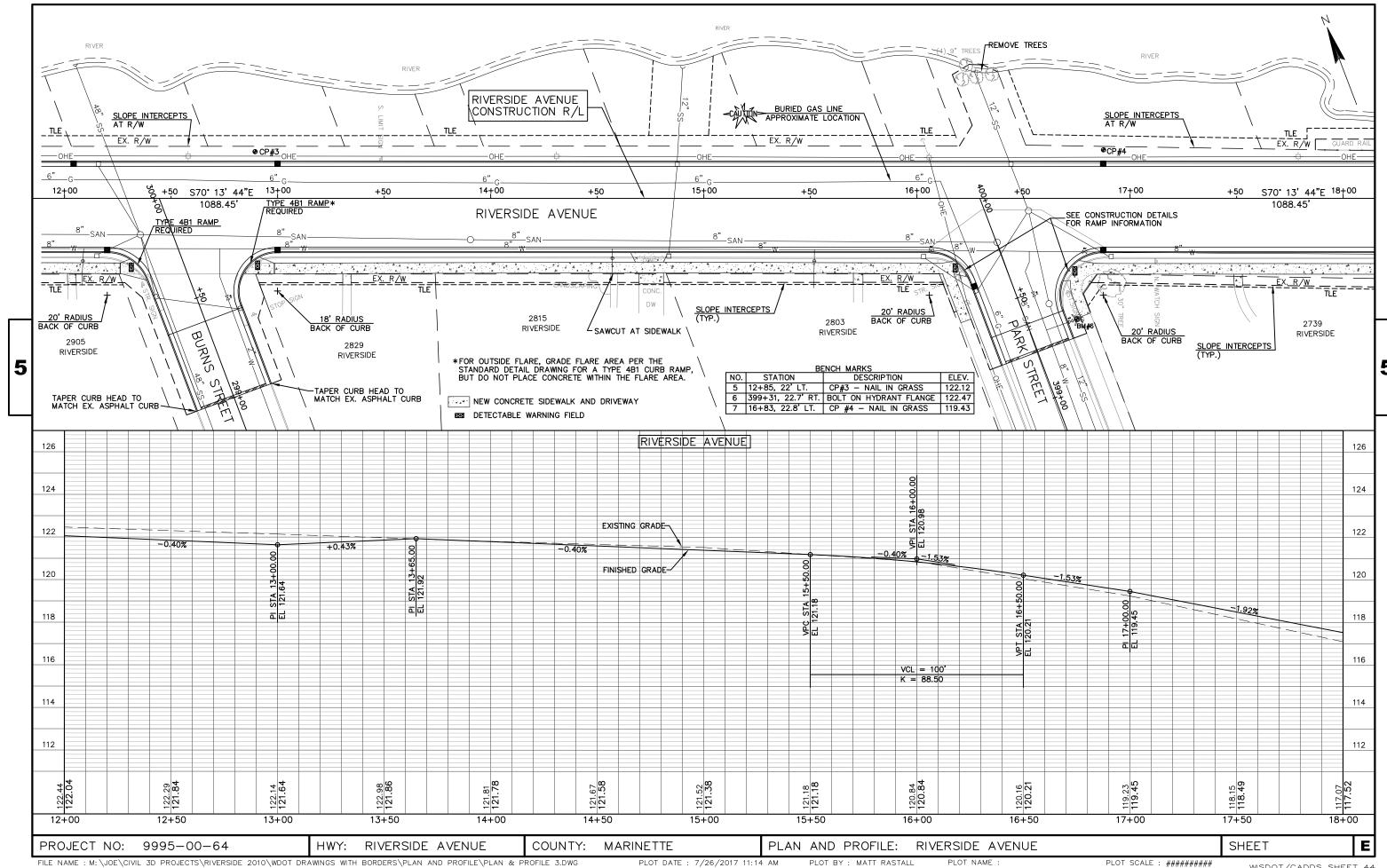


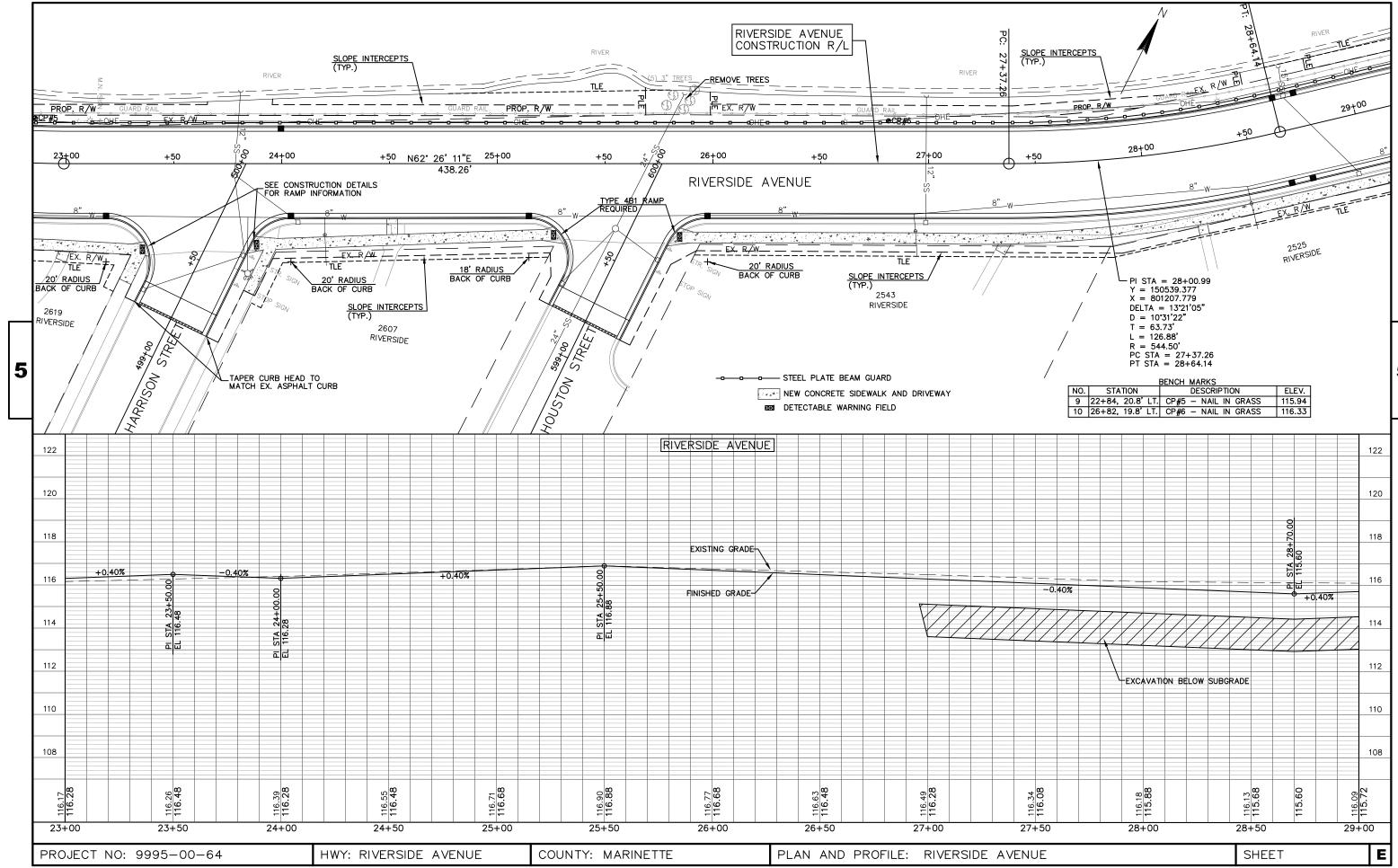


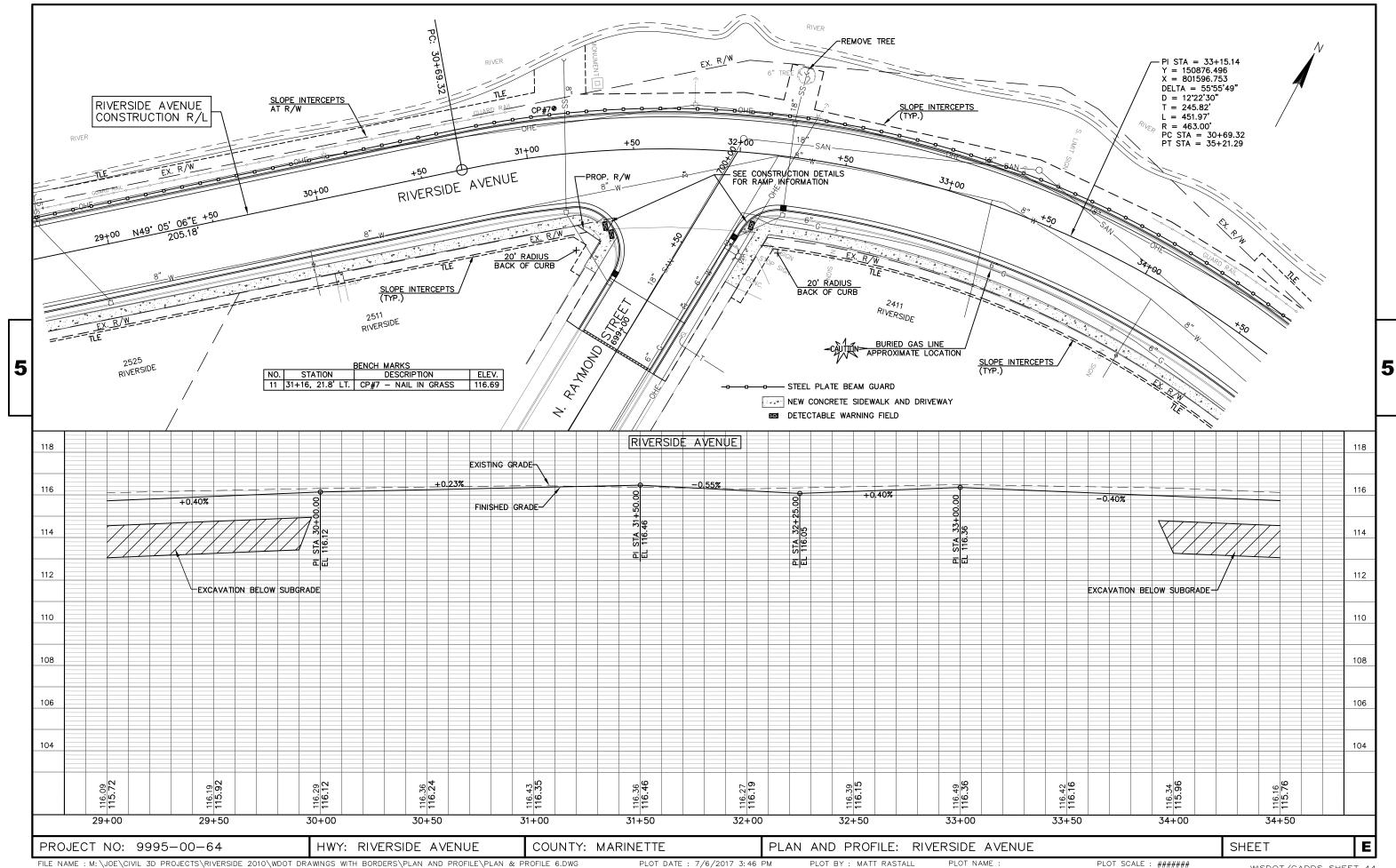


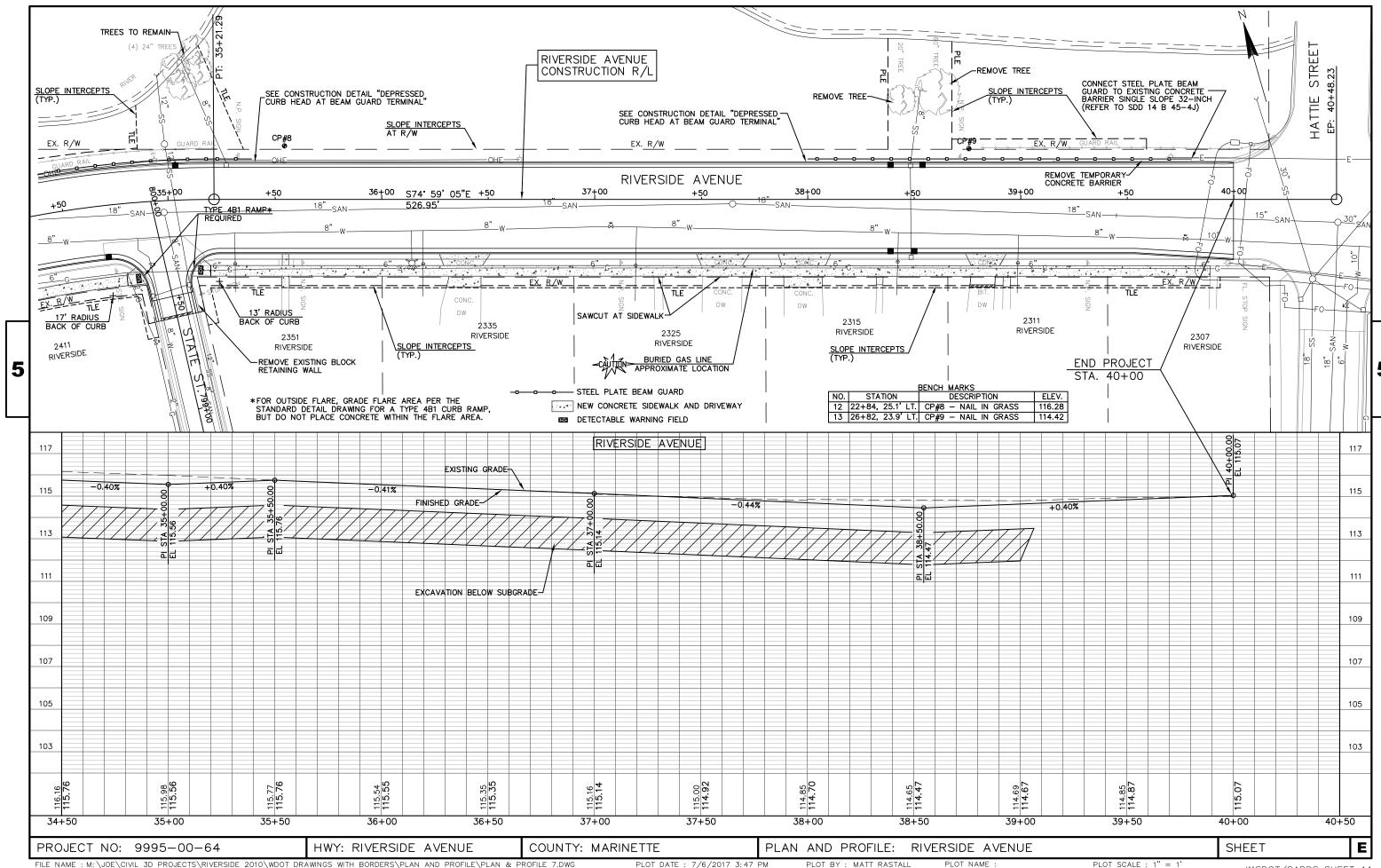








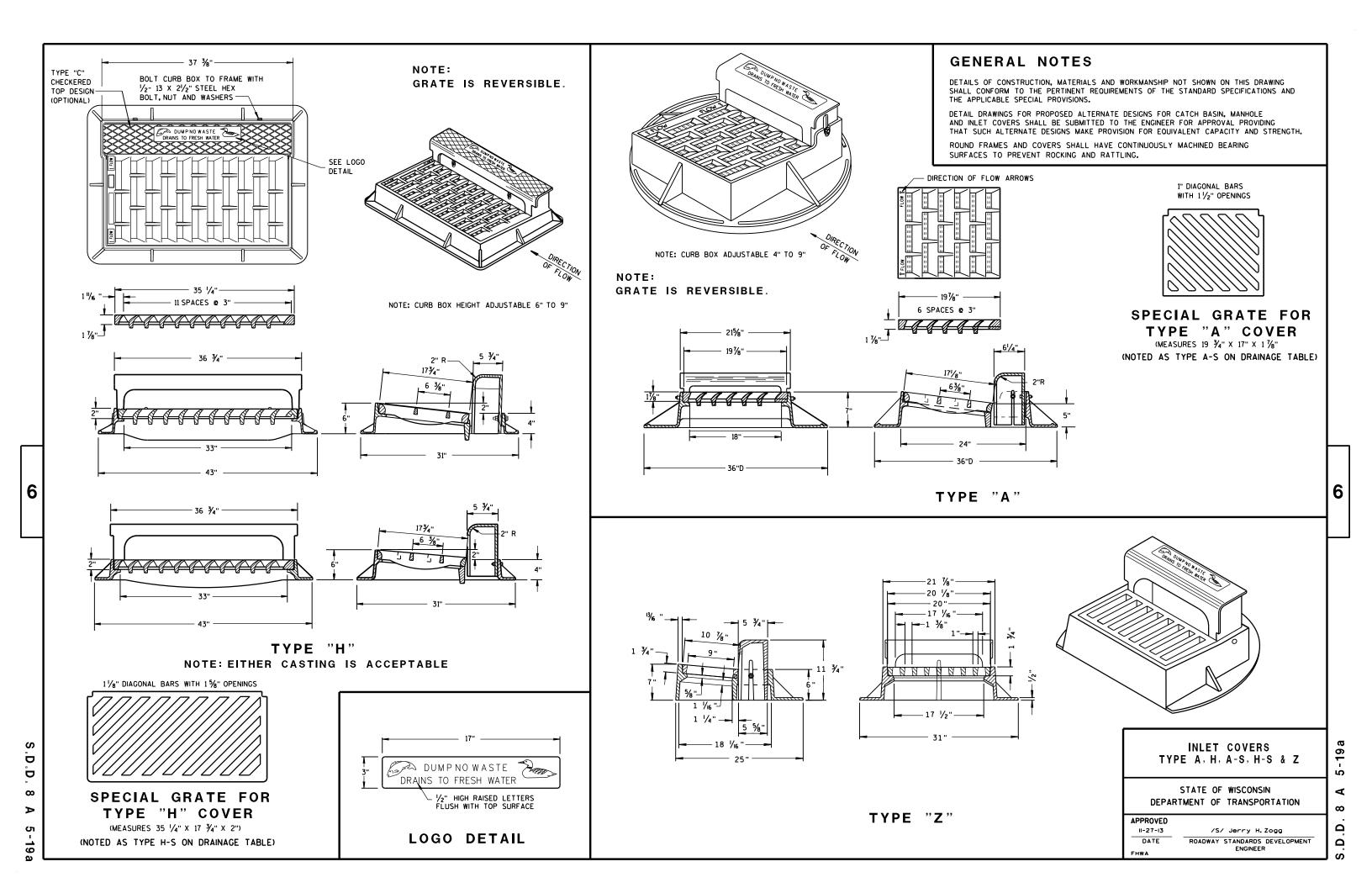


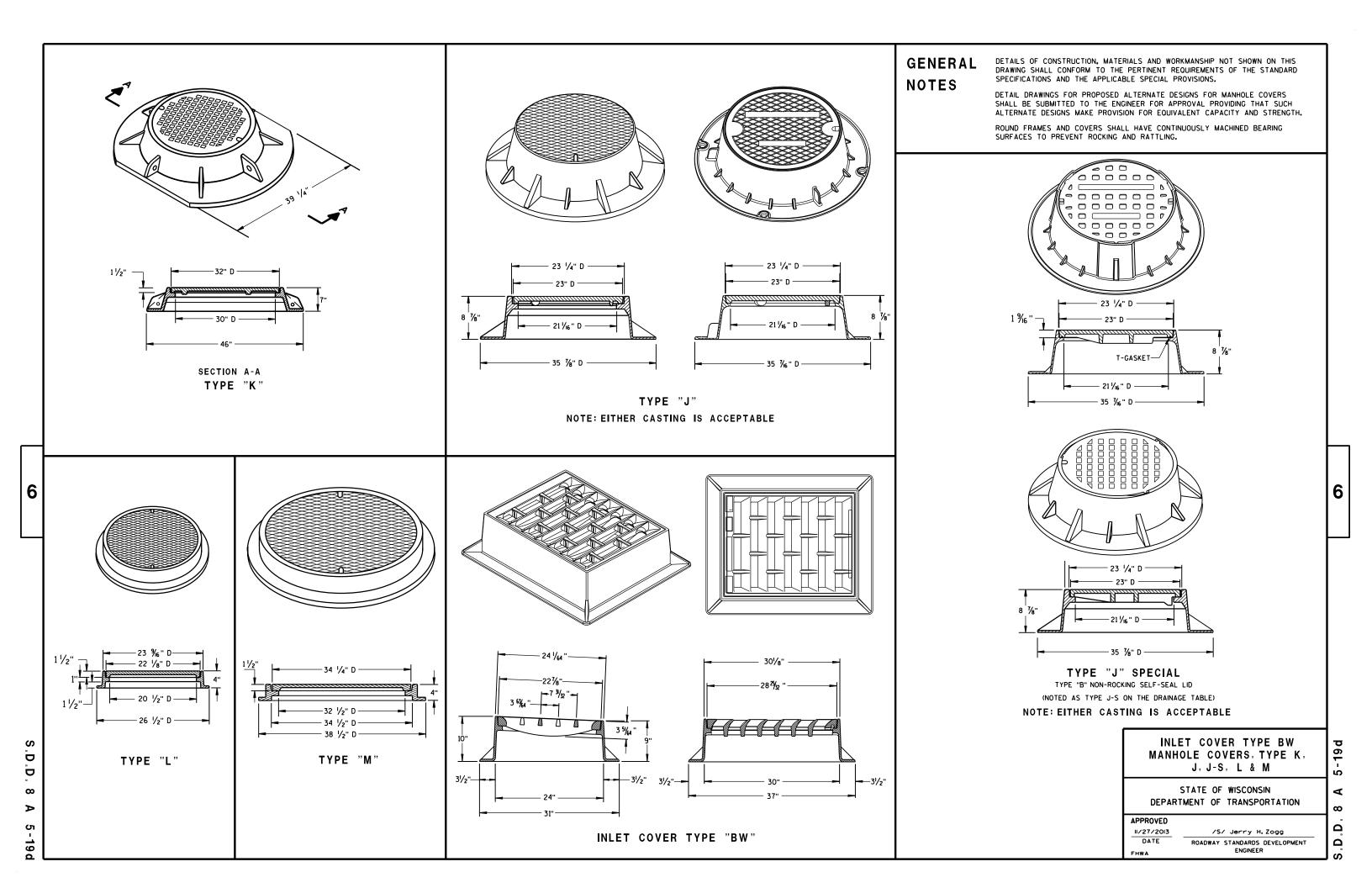


### 6

## Standard Detail Drawing List

08A05-19A 08A05-19D 08A08-02 08B09-02 08D01-19 08D05-18A 08D05-18B 08D05-18C 08D05-18D 08D05-18E	INLET COVERS TYPE A, H, A-S, H-S & Z INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES CURB RAMPS TYPES 1 AND 1-A CURB RAMPS TYPES 2 AND 3 CURB RAMPS TYPES 4A AND 4A1 CURB RAMPS TYPE 4B AND 4B1 CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E09-06	SILT FENCE
08E10-02 08E11-02	INLET PROTECTION TYPE A, B, C AND D TURBIDITY BARRIER
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10 09C02-07	CONDUIT CONCRETE BASES, TYPES 1, 2, 5, & 6
09C02-07	TRANSFORMER/PEDESTAL BASES
09C05-10	CONCRETE CONTROL CABINET BASES
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-02	LIGHTING CONTROL CABINET 120/240 VOLT
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
13C01-18 13C13-08	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES URBAN DOWELED CONCRETE PAVEMENT
13C18-05A	CONCRETE PAVEMENT JOINTING
13C18-05B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-05C	CONCRETE PAVEMENT JOINT TYPES
13C18-05D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14B42-04A 14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A 14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRI CADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C 15C07-13E	DETOUR SIGNING FOR MAINLINE CLOSURES PAVEMENT MARKING FOR BIKE LANES
15C08-17A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C29-05A	BICYCLE LANE MARKING
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

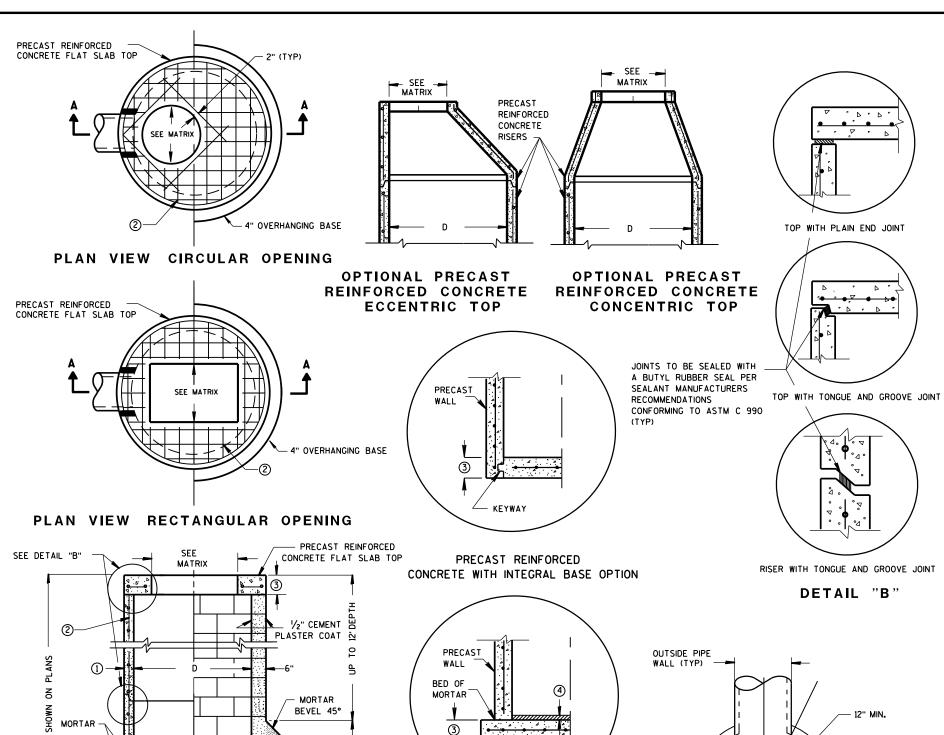






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2 COURSES

4

SECTION A-A

.Z.

CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER

FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

CONCRETE BLOCK WITH CAST-

REINFORCED CONCRETE BASE ②

IN-PLACE OR PRECAST

OUTSIDE PIPE WALL (TYP)

DETAIL "C"

GENERAL NOTES

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

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

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

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

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

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

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

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

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF  $\frac{1}{2}$  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.

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

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

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- ① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.
- (2) FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.
- ③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".
- 4 1" CONCRETE KEY POURED AFTER INSTALLATION. 2'SUMP MEASURED FROM TOP OF KEY.

### CATCH BASIN COVER OPENING MATRIX

CATCH BASIN	INLET COVER TYPE	ALL A'S	ALL B'S	BW	С	F	ALL H'S	S	Т	٧	WM	Z
SIZE	OPENING SIZE (FT)											
3-FT	2X2	Х	Х					Х		Х		
"	2 DIA.				Х							Х
	2X2	Х	Х					Х		Х		
4-FT-	2X2.5			Х				Х	Х	Х	X	
6-FT	2 DIA.				X							Х
	2X3						х					
	2.5X3					х						

### PIPE MATRIX

CATCH BASIN	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES							
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)						
3-FT	15	12						
4-FT	24	18						
5-FT	36	24						
6-FT	42	30						

4-FT, 5-FT AND 6-FT DIAMETER

CATCH BASINS 3-FT,

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016

DATE

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

CA

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

D.D. 8 A 8-2

SEE DETAIL "A"

PRECAST REINFORCED

CONCRETE WITH

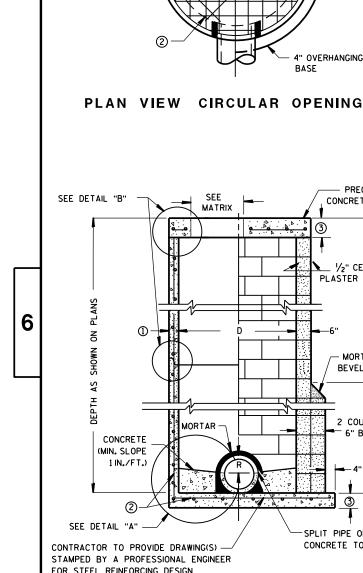
MONOLITHIC BASE

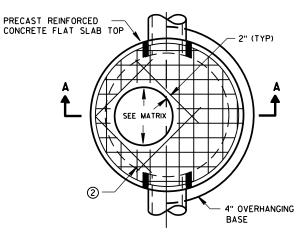


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SEE

MATRIX

SEE \_\_ MATRIX **PRECAST** REINFORCED CONCRETE RISERS

OPTIONAL PRECAST REINFORCED CONCRETE **ECCENTRIC TOP** 

PRECAST

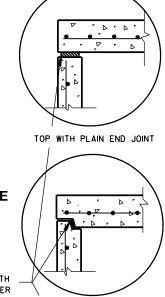
WALL

PRECAST REINFORCED

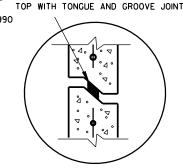
CONCRETE FLAT SLAB TOP

**CONCRETE BASE 2** 

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

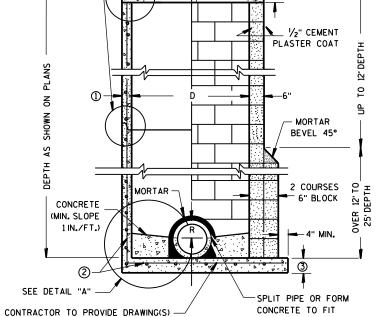


JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

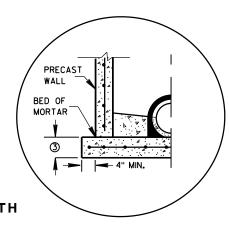


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B'



FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES PRECAST REINFORCED CONCRETE BLOCK WITH **CONCRETE WITH** CAST-IN-PLACE OR PRECAST REINFORCED MONOLITHIC BASE

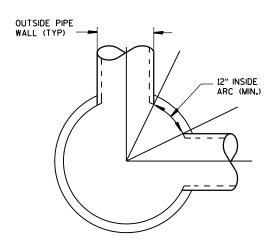


PRECAST REINFORCED

CONCRETE WITH INTEGRAL BASE OPTION

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

### **GENERAL NOTES**

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

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

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

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

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

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

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

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

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2" 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".

- MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT. 6 INCHES FOR 5-FT, 7 INCHES O MINIMUM WALL IHICKNESS SHALL DE 4 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

### MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	С	ALL J'S	K	L	М
OPENING SIZE (FT)					
2 DIA.	х	х		Х	
3 DIA.			Х		Х

### PIPE MATRIX

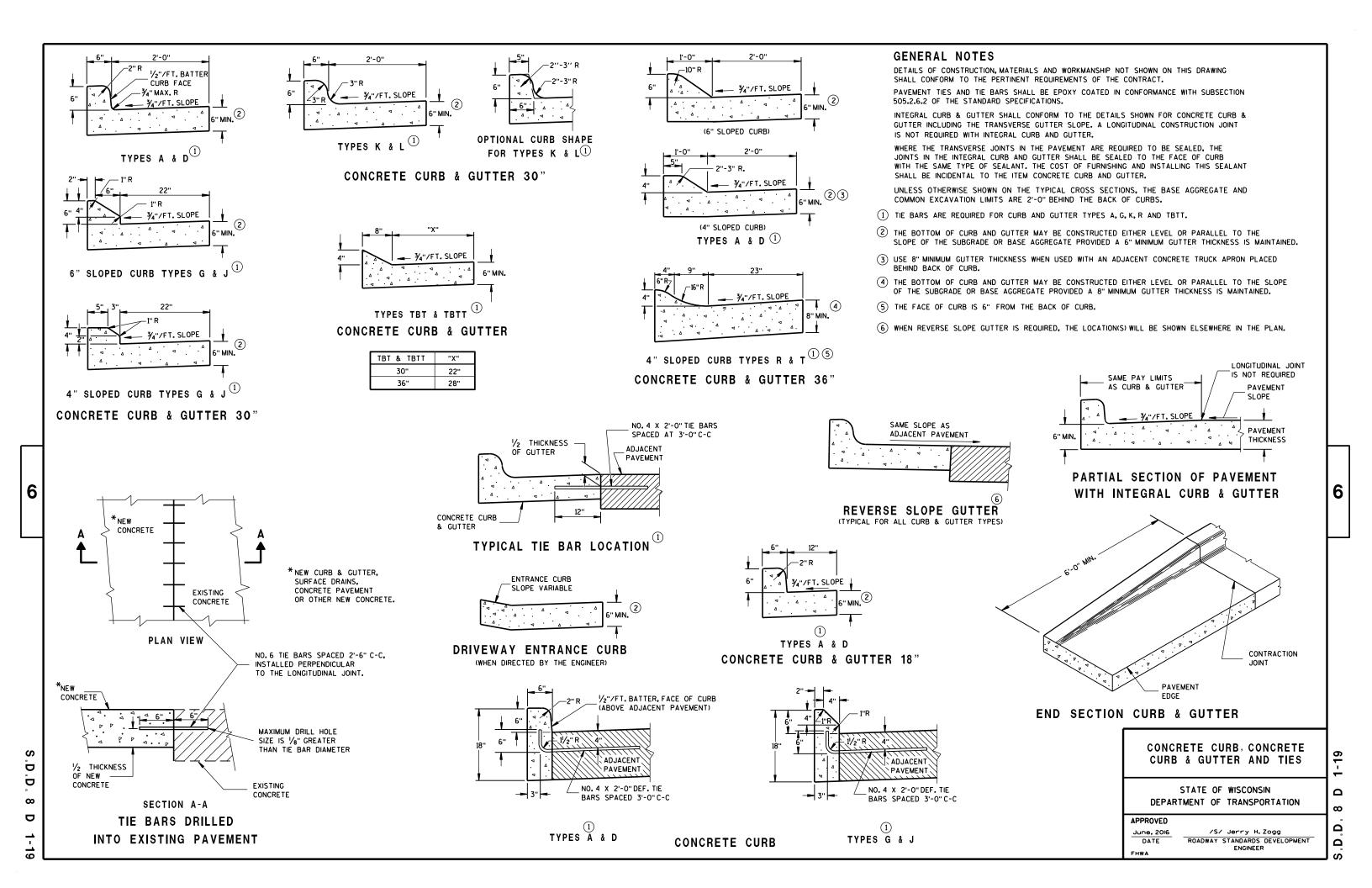
MANHOLE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES					
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)				
3-FT	15	12				
4-FT	24	18				
5-FT	36	24				
6-FT	42	36				
7-FT	48	36				
8-FT	60	42				

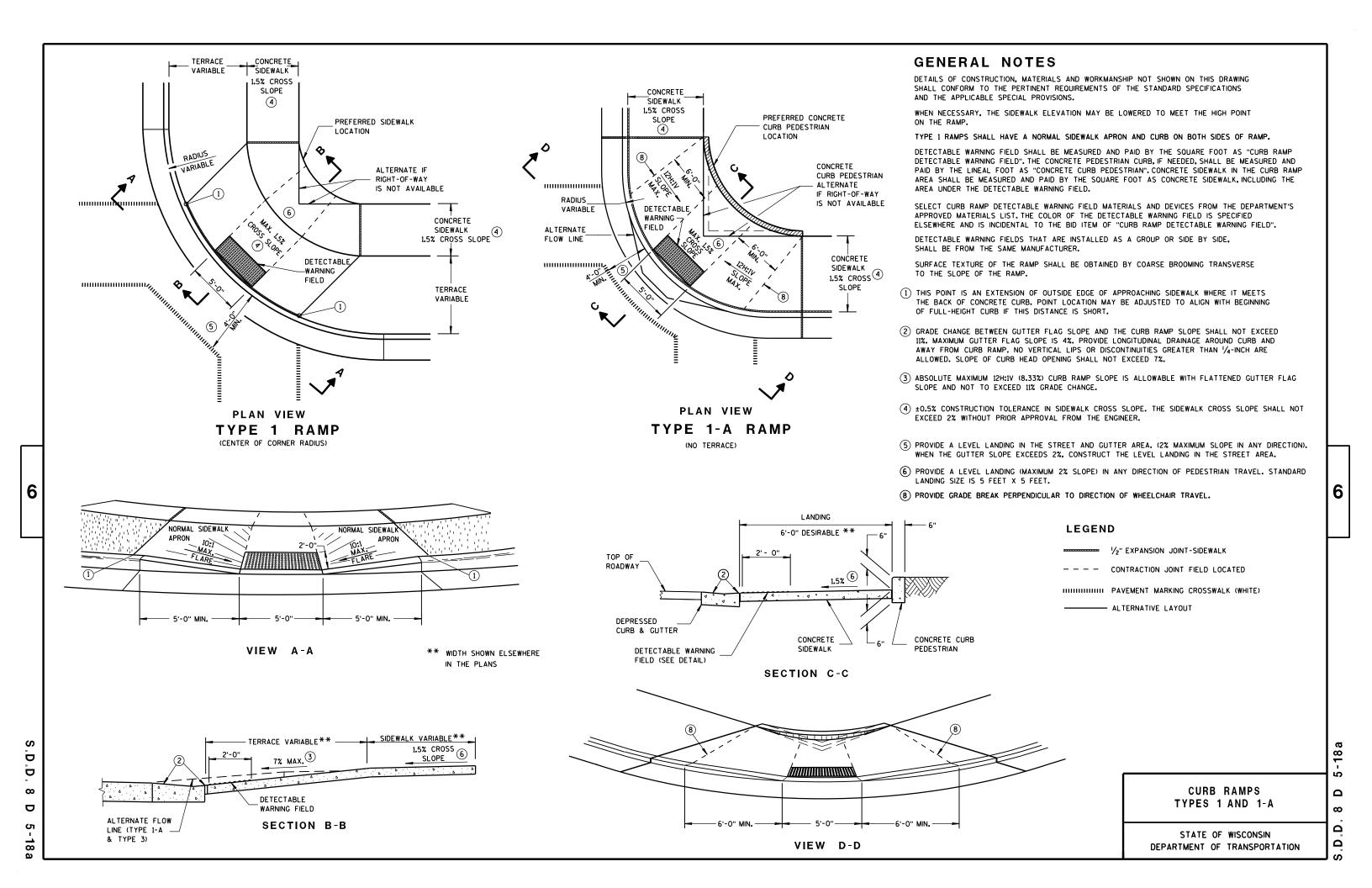
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT 7-FT AND 8-FT DIAMETER

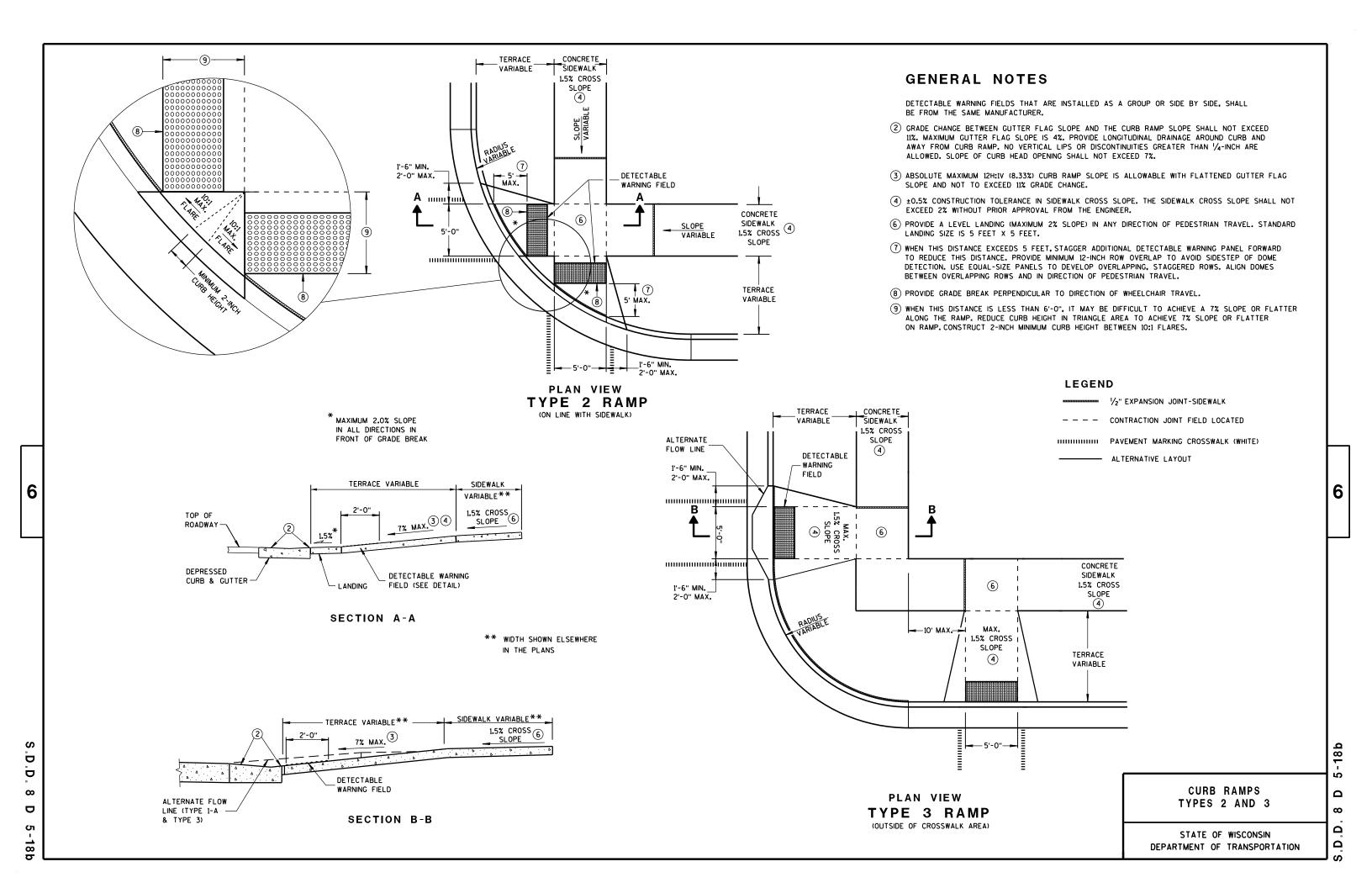
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

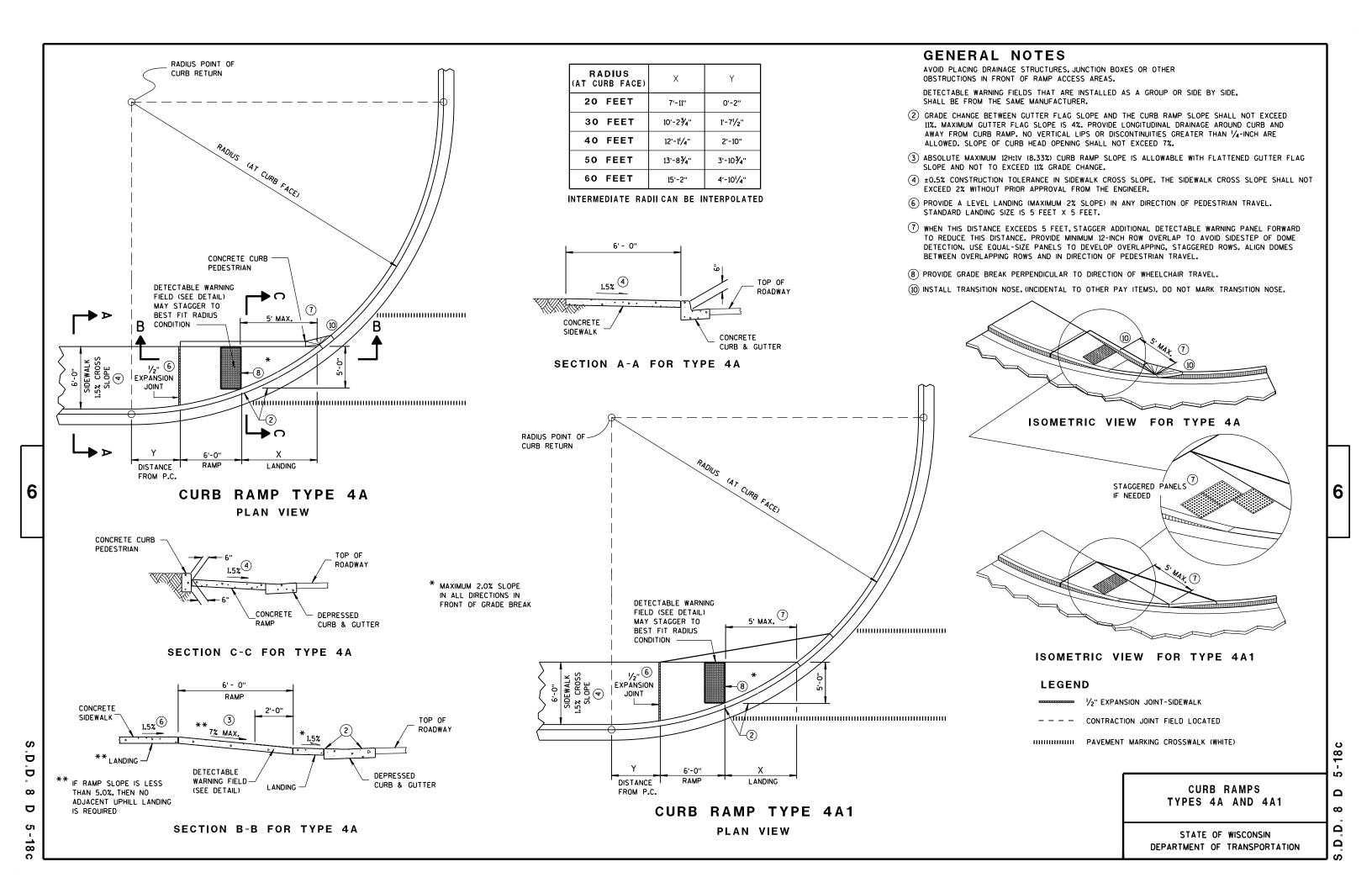
PPROVED	
Sept., 2016	/S/ Rodney Taylor
DATE	ROADWAY STANDARDS DEVE
	UNIT SUPERVISOR

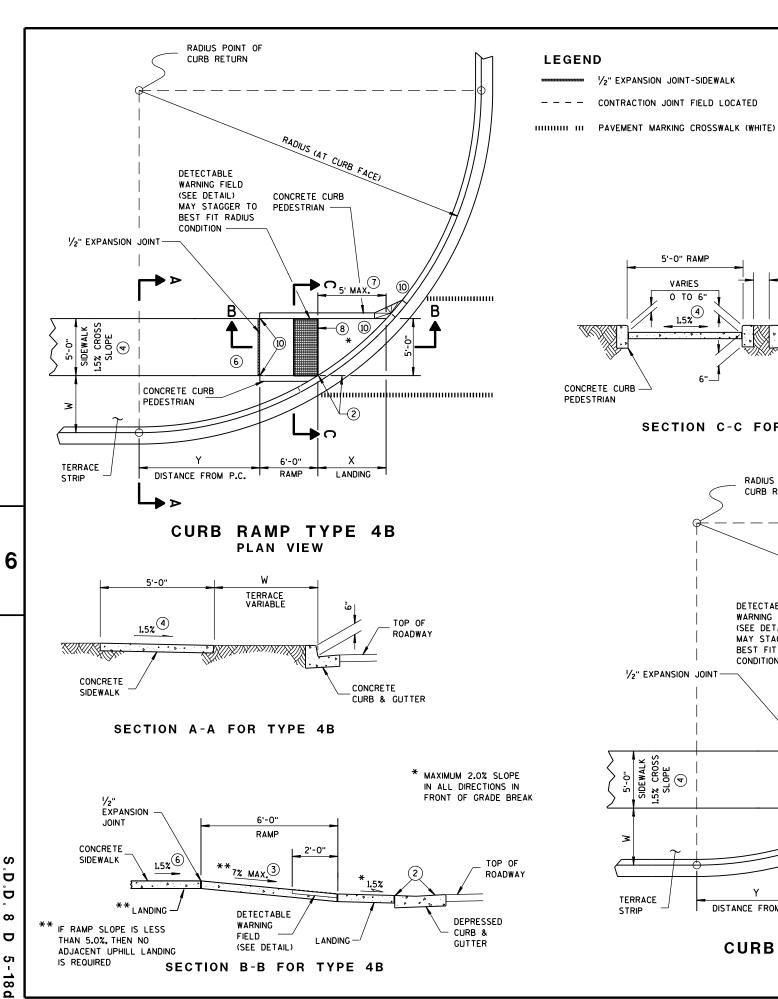
ELOPMENT











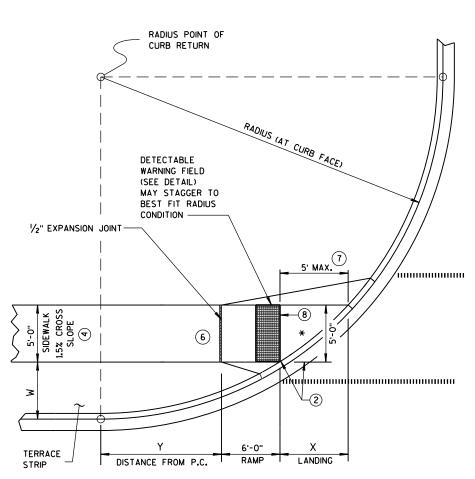
#### W = 5' - Ø" 7' - Ø" 3' - Ø" W = 4' - Ø" W = 6' - 0" RADIUS AT CURB FACE 20 FEET 3'-8¾" 7'-6¾" 3'-61/2" 4'-111/2" 6'-51/2" 8'-61/4" 5'-9¾" 5'-1¾" 4'-31/4" 3'-3" 30 FEET 5'-101/2" 6'-91/2" 7'-11'/4" 6'-0'/4" 12'-5¾" 11'-13/4' 40 FEET 12'-33/4" 14'-1'/4" 15'-81/2" 50 FEET 9'-61/2" 9'-51/2" 12'-31/4" 8'-61/2" 14'-71/2" 7'-9¾" 16'-81/4" 7'-21/2" 18'-6'/4" 60 FEET 11'-10'/4'' 11'-0¾" 10'-61/2" 14'-1'/4" 9'-61/2" 16'-81/2" 8'-9'/4" 18'-11¾" 8'-1'/2" 21'-0'/2"

### **GENERAL NOTES**

INTERMEDIATE RADII CAN BE INTERPOLATED

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- (2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.
- (3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- 4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- (6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
- (7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. USE EQUAL-SIZE PANELS TO DEVELOP OVERLAPPING, STAGGERED ROWS. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.
- (8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



TERRACE STRIP

VARIES O TO W

CONCRETE

CURB & GUTTER

TOP OF

ROADWAY

5'-0" RAMP

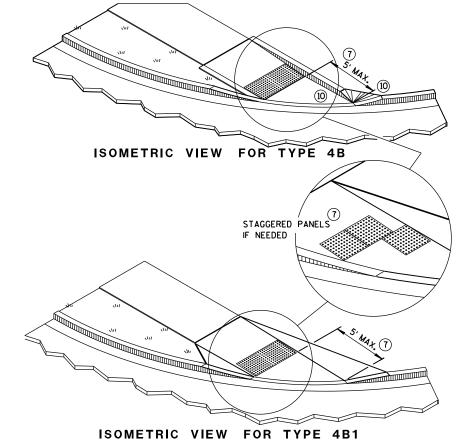
VARIES

0 TO 6"

1.5%

SECTION C-C FOR TYPE 4B

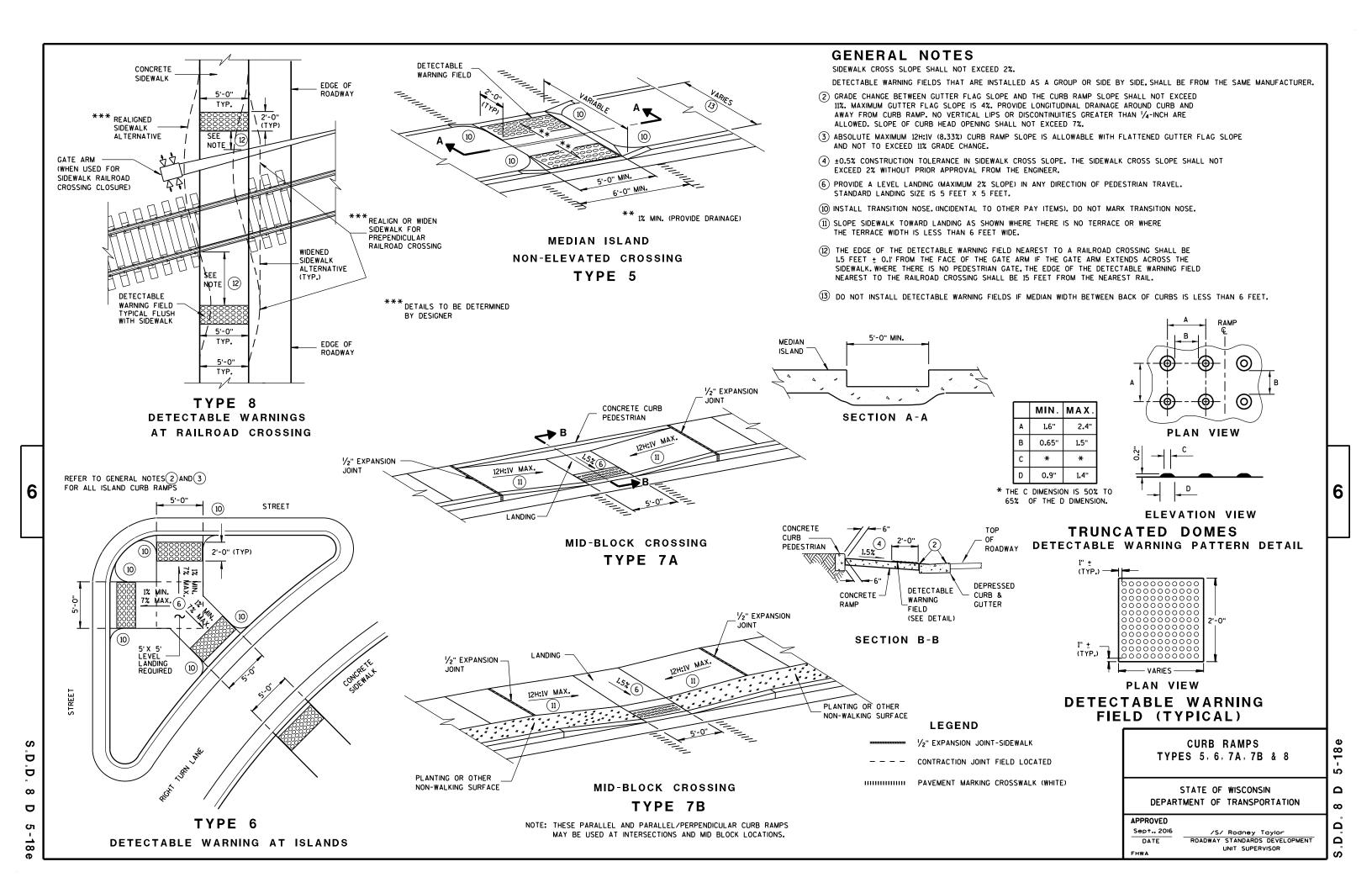
**CURB RAMP TYPE 4B1 PLAN VIEW** 



CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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## TYPICAL APPLICATION OF SILT FENCE

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# 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.

- $\bigcirc$  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 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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INLET PROTECTION, TYPE A

### **GENERAL NOTES**

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

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

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

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



### INLET PROTECTION, TYPE C (WITH CURB BOX)

### **INSTALLATION NOTES**

### TYPE B & C

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

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

#### TYPE D

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

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

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

### INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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### **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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- 4 IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

### TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER  $\infty$ 

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	METAL APRON ENDWALLS										
PIPE	MIN. 1	THICK.			DIMEN:	SIONS (I	nches)			APPROX.	
DIA.	(Incl		A	В	Н	L	Γį	L <sub>2</sub>	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	<b>.</b> 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 <sup>1</sup> / <sub>4</sub> +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 <sup>1</sup> / <sub>4</sub> †o 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	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.

	REINFORCED CONCRETE APRON ENDWALLS									
PIPE		DIMENSIONS (Inches)								
DIA.	T	A	В	С	D	Ε	G	APPROX. SLOPE		
12	2	4	24	48 1/8	721/8	24	2	3 to 1		
15	21/4	6	27	46	73	30	21/4	3 to 1		
18	21/2	9	27	46	73	36	21/2	3 to 1		
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1		
24	3	91/2	431/2	30	731/2	48	3	3 to 1		
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1		
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1		
36	4	15	63	34¾	97¾	72	4	3 to 1		
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1		
48	5	24	72	26	98	84	5	3 to 1		
54	51/2		65	**************************************	8 <sup>1</sup> / <sub>4</sub> - 100	90	51/2	2% to 1		
60	6	* ** 30-35	60	39	99	96	5	2 to 1		
66	61/2	<del>* **</del>  24-30	<del>*</del> <del>* *</del>   72-78	* * * 21-27	99	102	51/2	2 to 1		
72	7	* ** 24-36	78	21	99	108	6	2 to 1		
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1		
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1		
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1		

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

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.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

### \* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



\*\*MAXIMUM





CONCRETE ENDWALLS

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

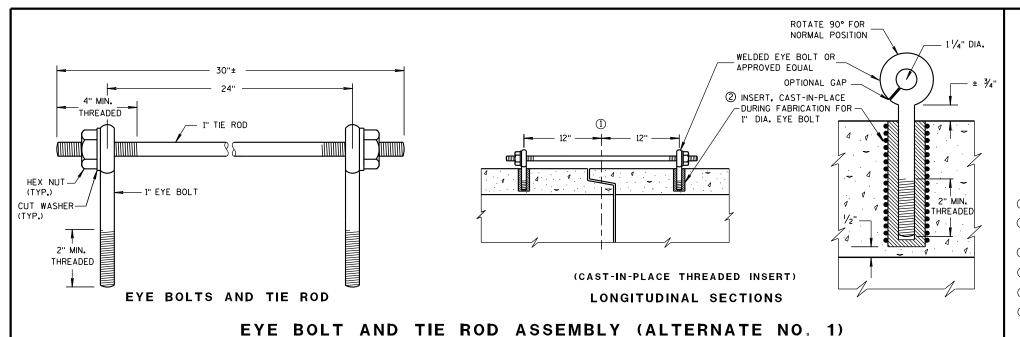
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. 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.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER



### **GENERAL NOTES**

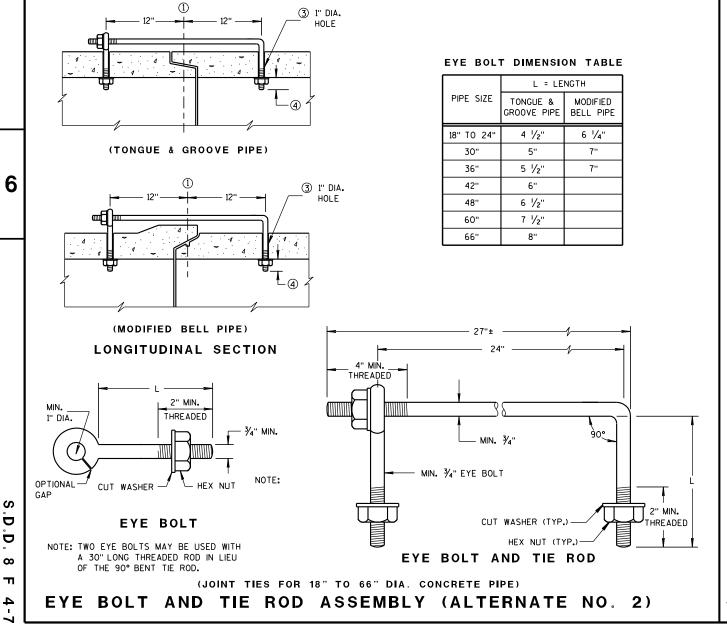
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

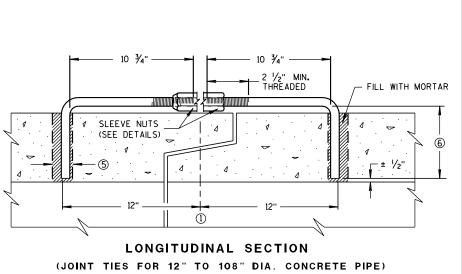
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

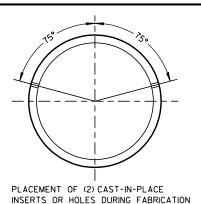
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$  HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM  ${\mathfrak L}$  OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN  $rac{1}{2}$  INCH OF THE INNER SURFACE OF THE PIPE.



## ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

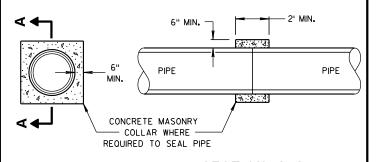


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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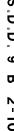
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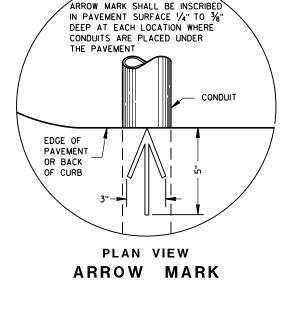


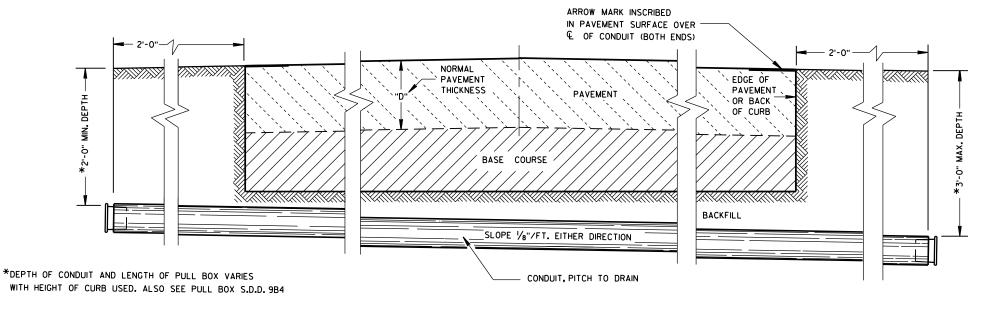












### SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

### **GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L.LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED 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

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

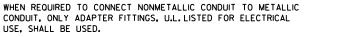
TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

### CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
March, 2017	/S/ Ahmet Demirbilek
DATE	STATE ELECTRICAL ENGINEER



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 1FOOT 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.

**GENERAL NOTES (CONTINUED)** 

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE

OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A LINCH 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.

**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.

## FORMING DETAIL

1'-8"

a)

- FORM

FORMING SHALL BE

CONCRETE HAS SET

REMOVED AFTER

FORM DEPTH SHALL BE

GRADE ON THE LOWER

SIDE OF BASE

4" MAX.

CONDUIT WITHIN

6" DIA.

ANCHOR RODS SHALL BE

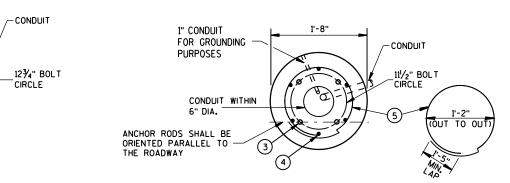
ORIENTED PARALLEL TO

1" CHAMFER ALL AROUND

FORM ALL EXPOSED

CONCRETE, PROVIDE

NO MORE THAN 6" BELOW



QUANTITY

REQUIREMENTS

ARDS OF CONCRETE

APPROX. CUBIC

LBS. OF HOOP

LBS. OF VERTICAL

BAR STEEL

BAR STEEL

CONCRETE BASE TYPE

0.57

23

60

0.40

NONE

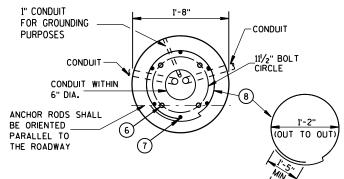
NONE

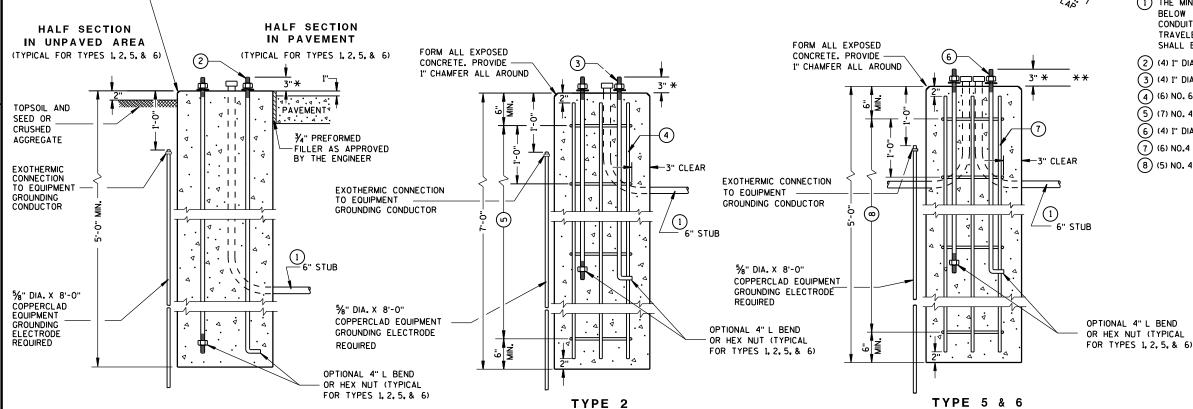
5 & 6

0.40

16

18





**CONCRETE BASES** 

\* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 31/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

\*\* FOR NONBREAKAWAY INSTALLATIONS, 41/2" ± 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

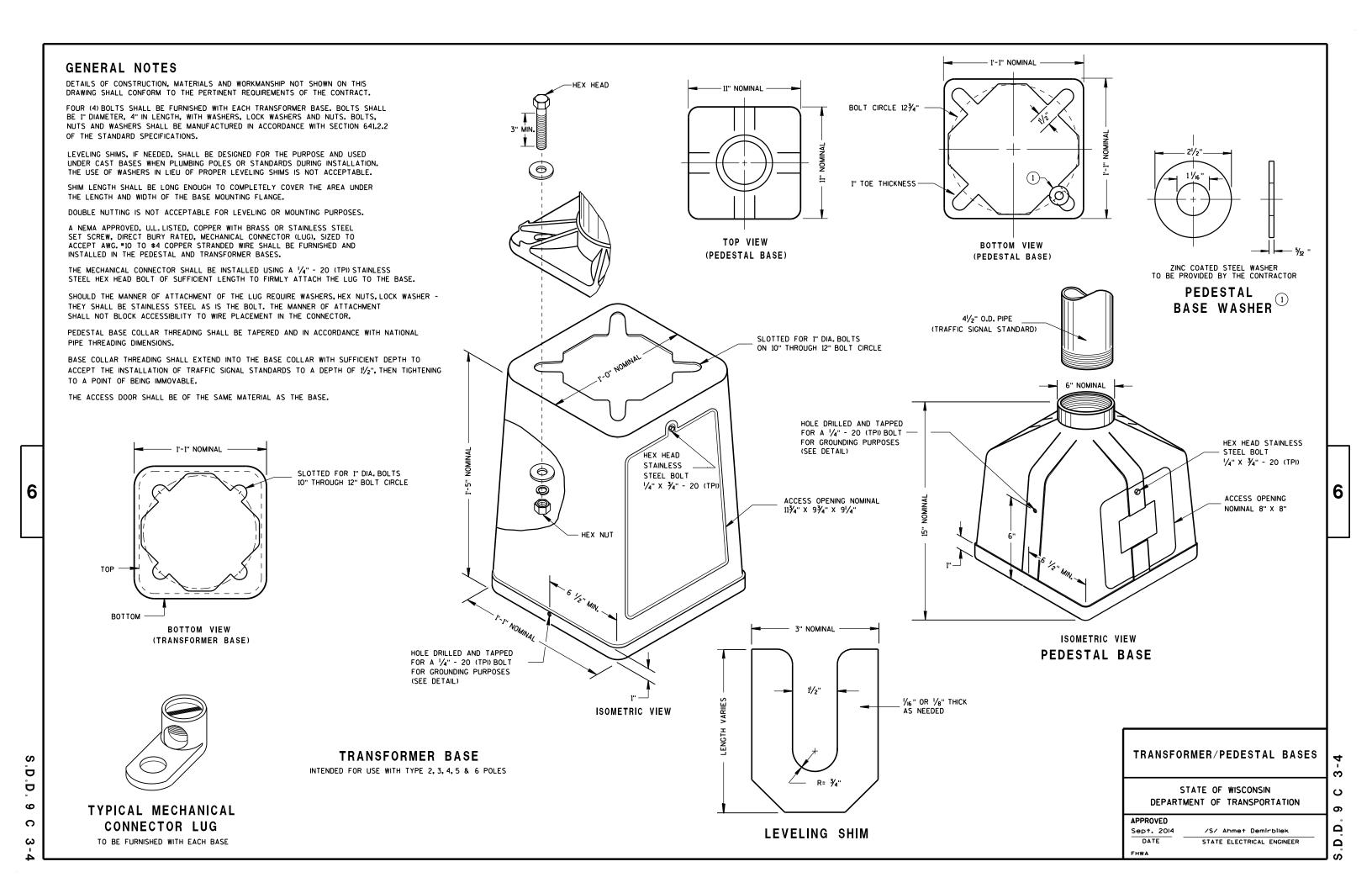
**APPROVED** Sept. 2014 /S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER

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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING

SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

**GENERAL NOTES** 

	IMEN	ISION	IS	C.Y. CONCRETE	
Н	ı	7	K	(APPROX.)	
34"	60"	10"	17"	.64	
42"	60"	10"	21"	.93	
42"	72"	12"	21"	1.29	
54"	72"	14"	27"	1.56	
AS SHOWN			١	.65 <del>X</del>	
	H 34" 42" 42" 54"	H I 34" 60" 42" 60" 42" 72" 54" 72"	H I J 34" 60" 10" 42" 60" 10" 42" 72" 12" 54" 72" 14"	34" 60" 10" 17" 42" 60" 10" 21" 42" 72" 12" 21" 54" 72" 14" 27"	

INCLUDES MAINTENANCE PLATFORM.

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9

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TYPICAL 3'-0" X 3'-0" X 4" THICK MAINTENANCE PLATFORM. LOCATION TO BE DETERMINED IN THE FIELD. COST TO BE -INCLUDED UNDER CONCRETE CONTROL CABINET TYPE 10. EXIT LOCATION OF 11/4" CONDUIT FROM CABINET BASE DEPENDENT UPON LOCATION OF ELECTRIC SERVICE. THE 3" CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST) PULL BOX LOCATED AS SHOWN ON THE PLAN A O ALL CONDUITS WITHIN 6" DIA. CIRCLE

12 ¾" BOLT

4 2" CONDUIT 3" CONDUIT

Δ

4

### CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND ALL CONDUIT SHALL FORM ALL EXPOSED BE INSTALLED WITHIN CONCRETE. PROVIDE 7" X 14" RECTANGLE 1" CHAMFER ALL AROUND LOCATE CONCRETE MAINTENANCE HALF SECTION HALF SECTION OCATE CONCRETE MANY LOVAR OCATE CONCRETE MANY LOVAR OCATE CONCRET (SEE NOTES) IN UNPAVED AREA IN PAVED AREA TOPSOIL AND SIDEWALK SEED OR CRUSHED AGGREGATE ·||| | ¾" PREFORMED FILLER AS 1" CONDUIT - 6" STUB GROUND APPROVED BY THE ENGINEER FOR GROUNDING WIRE LINE ENTRANCE **EXOTHERMIC** 6" STUB CONNECTION THE 3" CONDUIT SHALL BE TO EQUIPMENT APPROX. SPACED 2" MIN. APART TO GROUNDING CONDUCTOR ALLOW FOR PLACEMENT OF 6" STUB-CAPS, BUSHINGS OR COUPLINGS 1 1/4" SERVICE 4 - 6" STUBS SPACED 2" MIN. ENTRANCE APART TO ALLOW FOR PLACEMENT WITH 6" STUB OF CAPS, BUSHING OR COUPLINGS %" DIA. X 8'-0" 2" CONDUIT COPPERCLAD EQUIPMENT COMMUNICATION CABLE 3.0".BASE TYPE 8 & 9 GROUNDING ELECTRODE REQUIRED (ALTERNATE) EXIT LOCATION OF 11/4" CONDUIT 4" L BEND OR FROM CABINET BASE DEPENDENT ONE HEX NUT UPON LOCATION OF ELECTRIC

> TYPE 6,7,8 AND 9 (ISOMETRIC VIEW)

SERVICE.

\* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 31/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

TYPE 10

CONCRETE CONTROL CABINET BASES

CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 2

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**APPROVED** 

/S/ Ahmet Demirbilek DATE STATE ELECTRICAL ENGINEER FHWA

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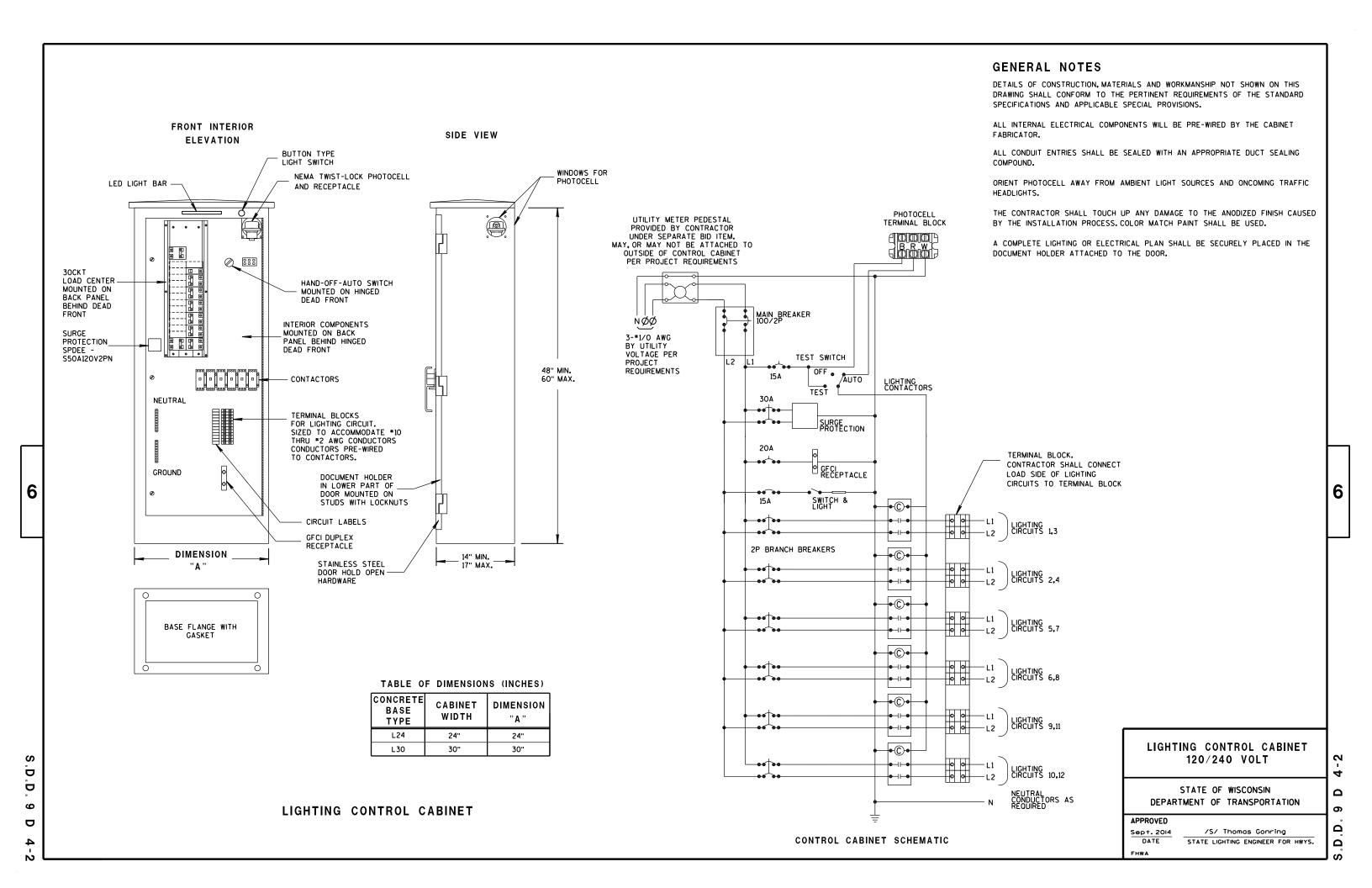
/S/ Ahmet Demirbilek

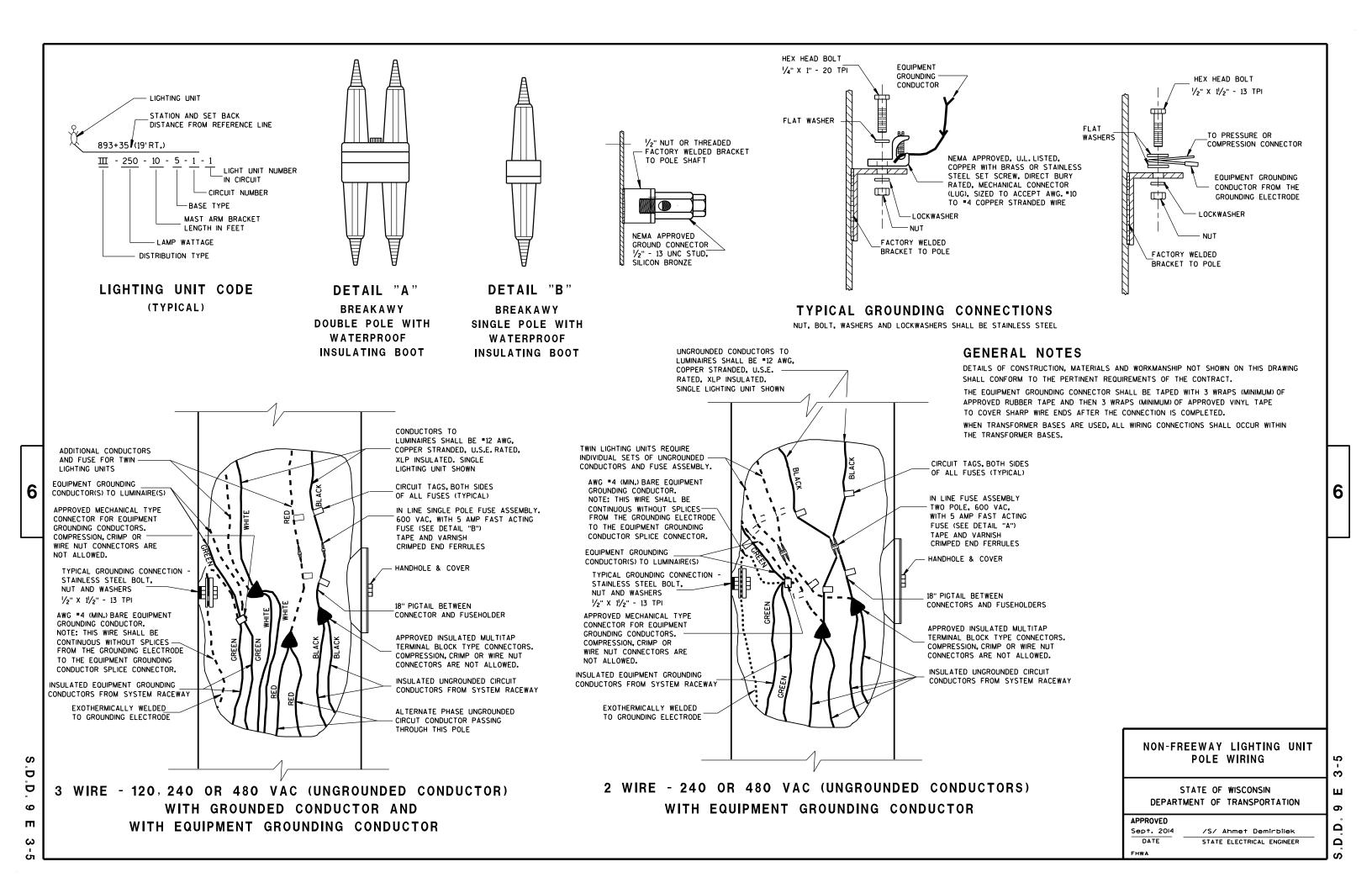
STATE ELECTRICAL ENGINEER

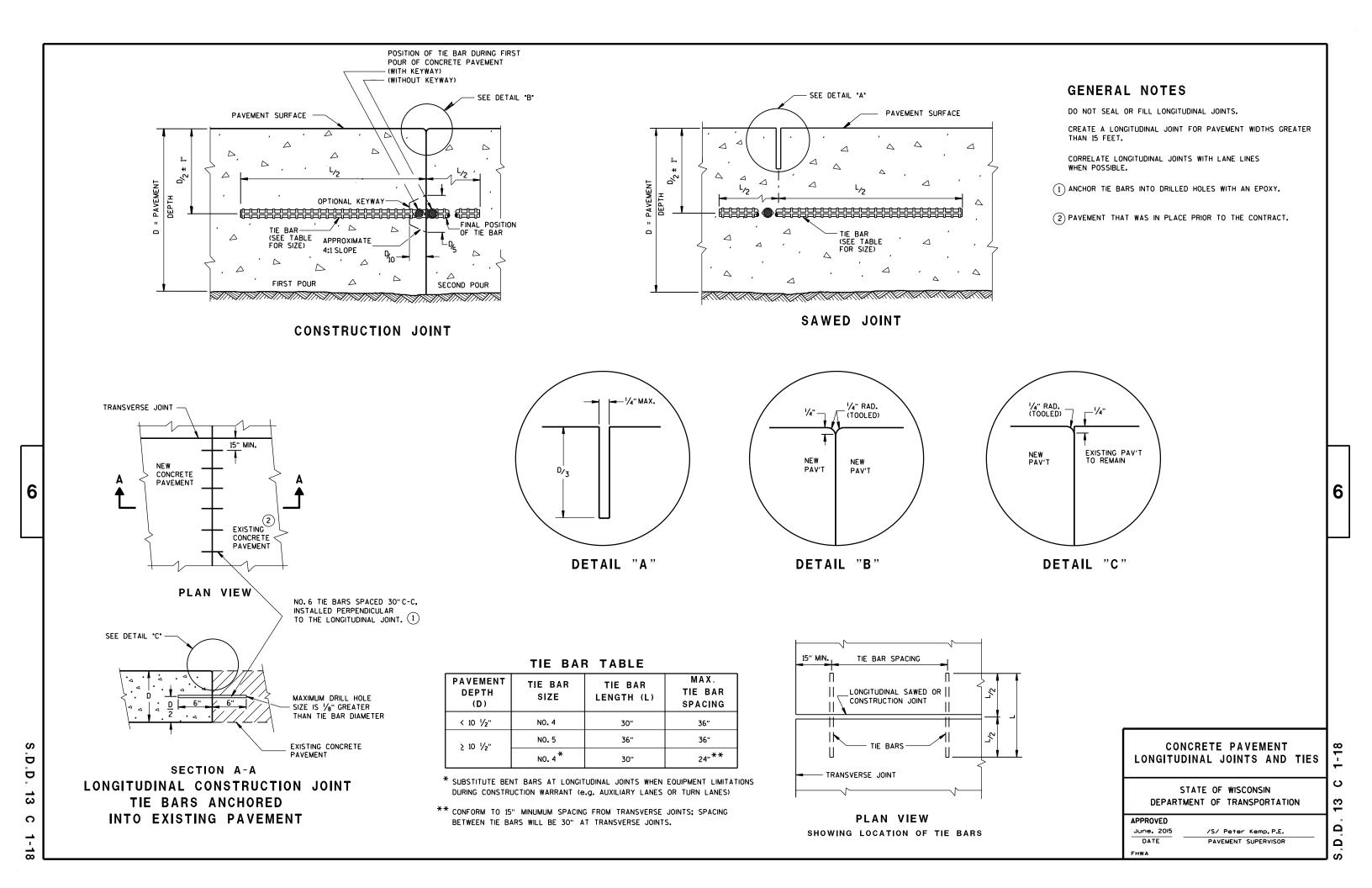
Sept. 2014

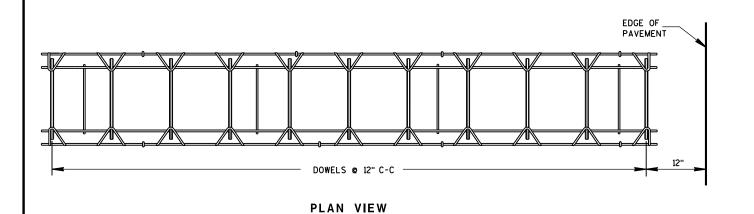
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### PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7",7 1/2"	1"	14'
8"•8 1/2"	1 1/4"	15'
9",9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

### **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.

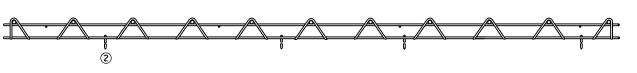
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

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

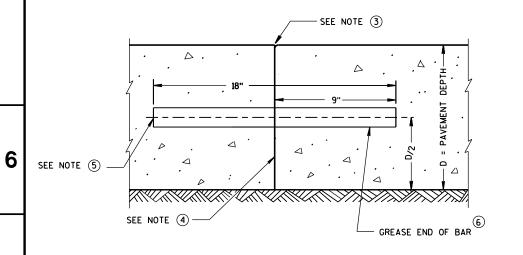
### CONSTRUCTION JOINTS

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 1/4-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 1/8-INCH GREATER THAN DOWEL BAR DIAMETER. 9 INCHES IN LENGTH.



SIDE VIEW CONTRACTION JOINT DOWEL ASSEMBLY



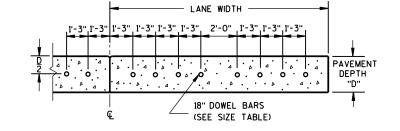
TRANSVERSE CONSTRUCTION JOINT

△ DOWEL BARS © 12" C-C 12" FROM PAVEMENT EDGE-

**DOWELED CONTRACTION JOINT** 

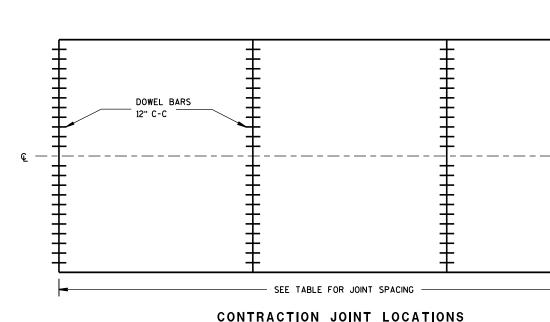
(SEE SIZE TABLE)

SEE JOINT DETAIL



(FOR 11' LANE WIDTH REDUCE CENTER SPACE TO 1'-O")

## DRILLED DOWEL BAR CONSTRUCTION JOINT $^{\scriptsize \bigcirc}$



JOINT DETAIL

### **URBAN DOWELED CONCRETE PAVEMENT**

- ¼" MAX.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**APPROVED** 5/3/2013

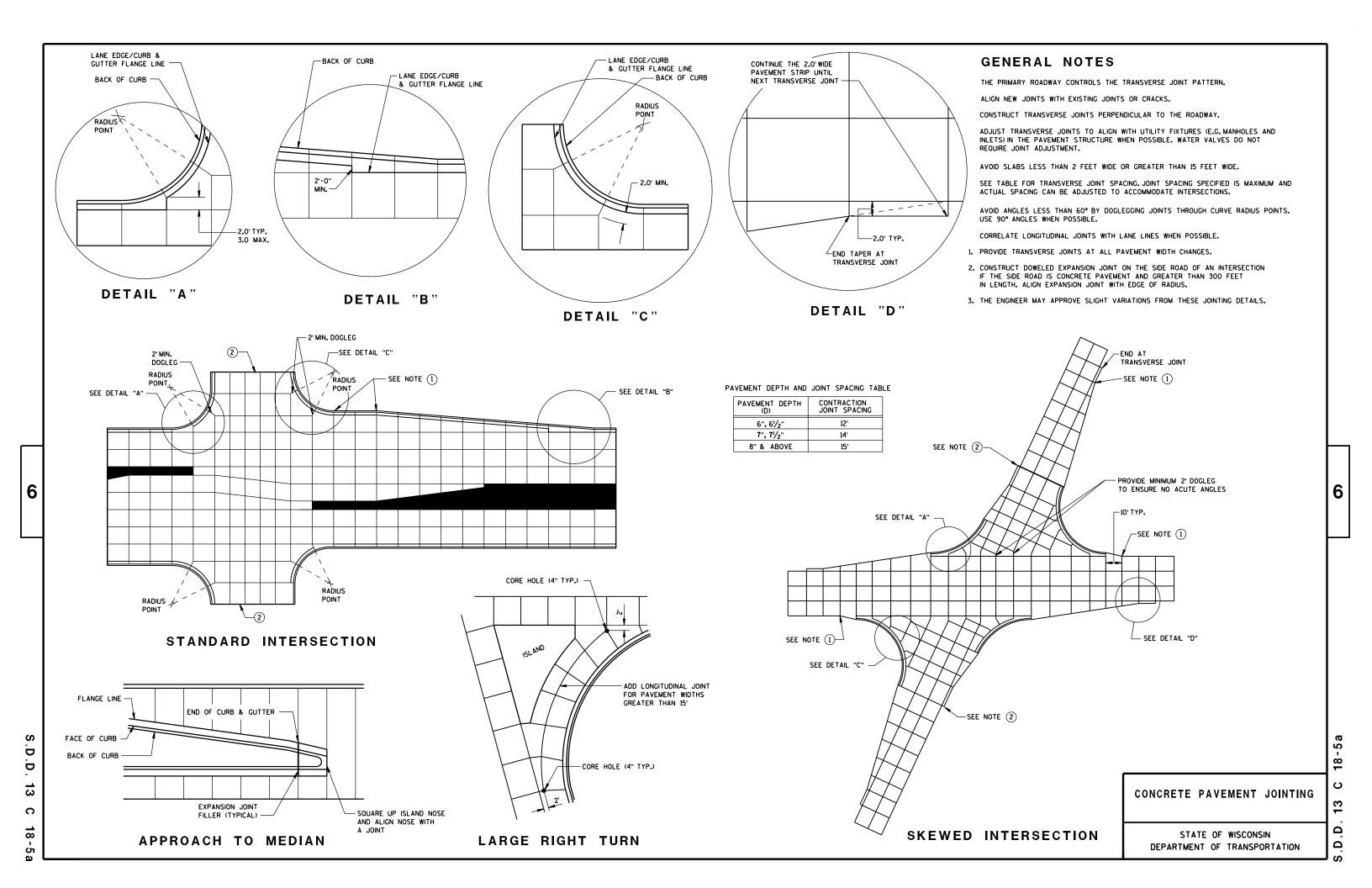
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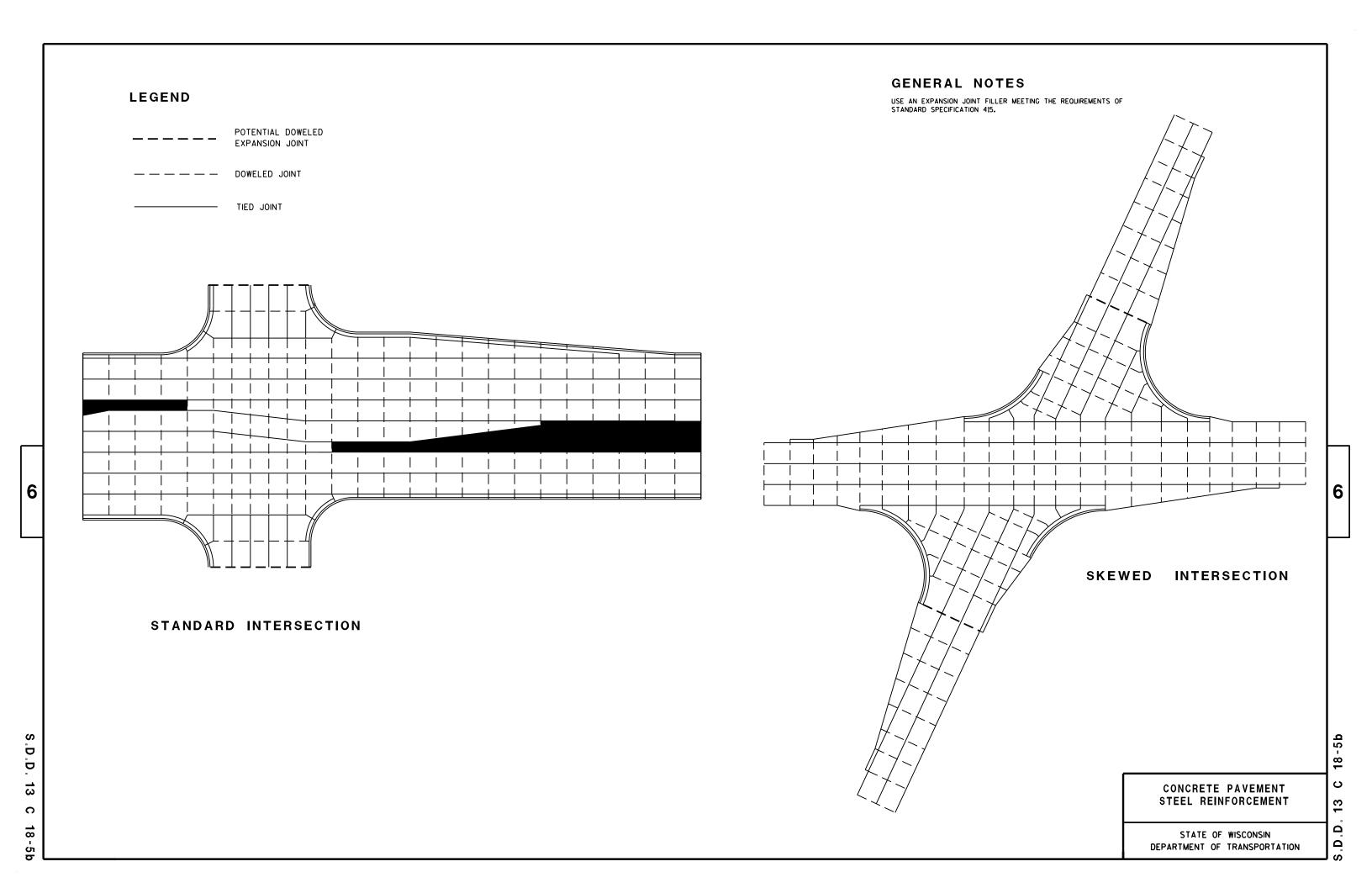
/S/ Deb Bischoff PAVEMENT POLICY & DESIGN ENGINEER

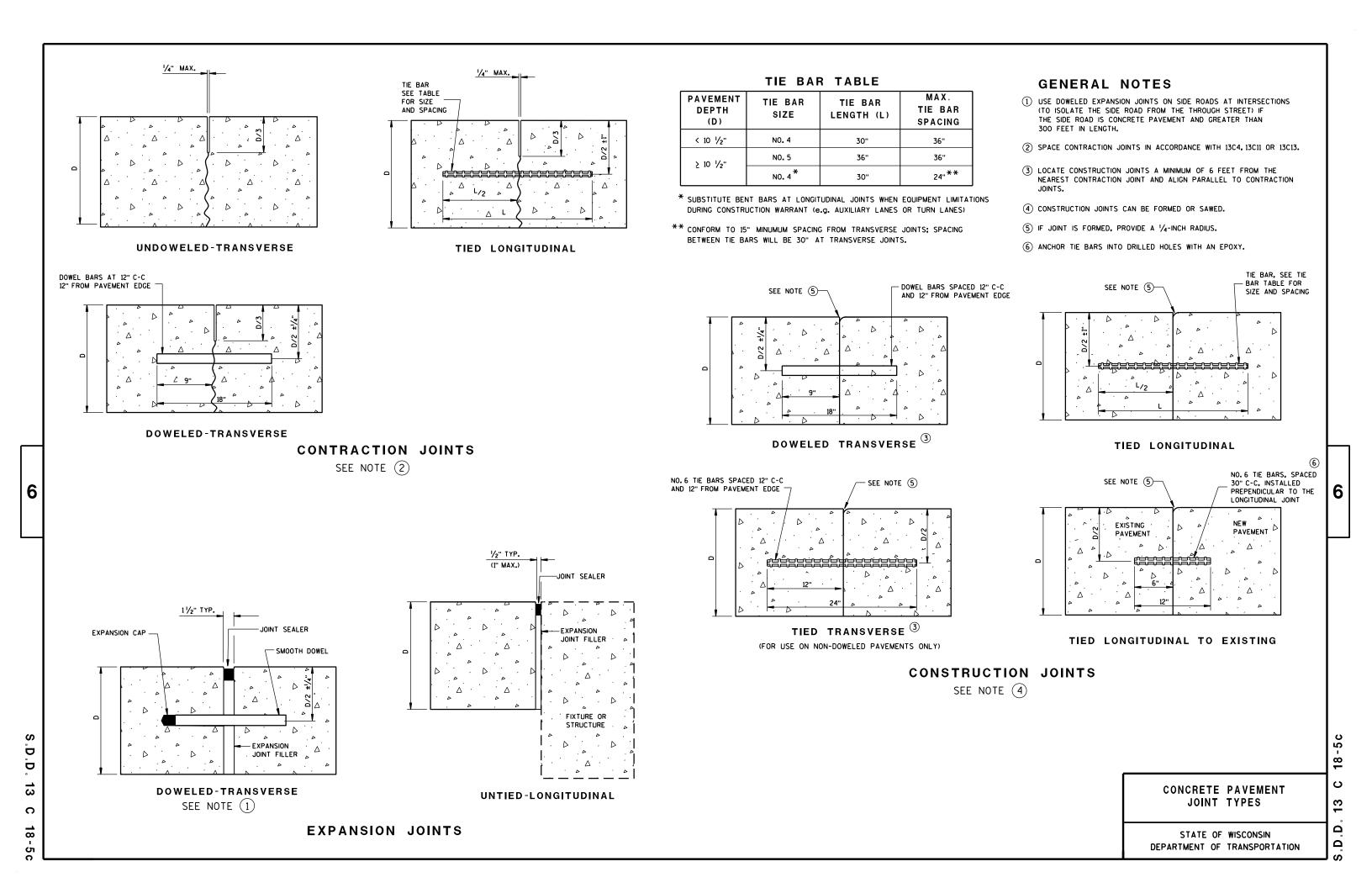
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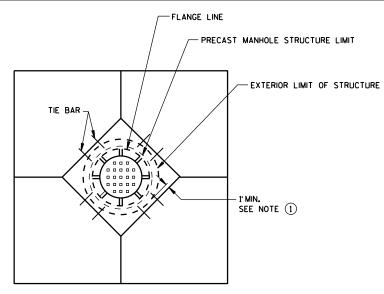
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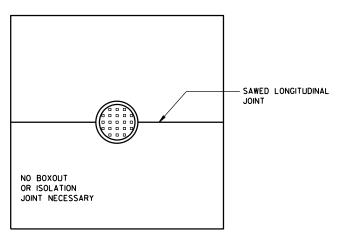




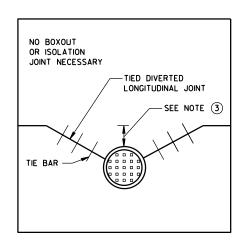




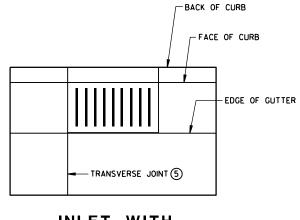
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



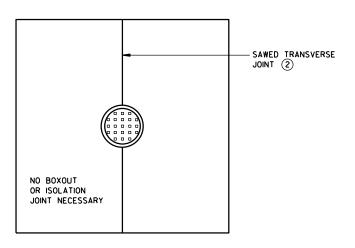
MANHOLE WITH LONGITUDINAL JOINT



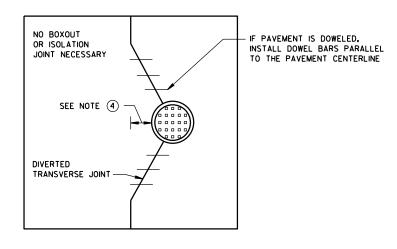
MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



INLET WITH TRANSVERSE JOINT



MANHOLE WITH TRANSVERSE 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

FHWA

December, 2016 /S/ Peter Kemp, P.E.

DATE PAVEMENT SUPERVISOR

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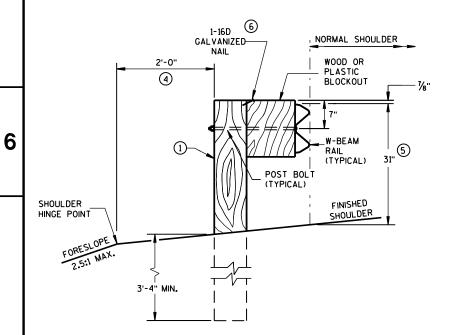
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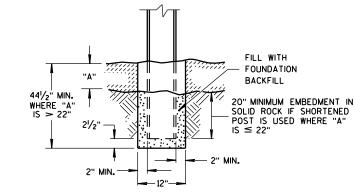
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- 2 USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



**END VIEW** 

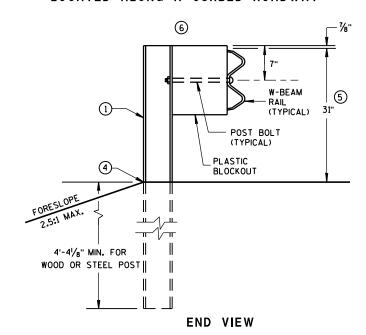
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



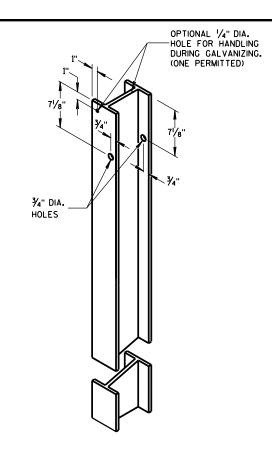
SETTING STEEL OR WOOD POST IN ROCK  $^{\cite{3}}$ 



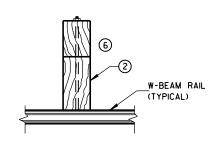
END VIEW
LOCATED ALONG A CURBED ROADWAY



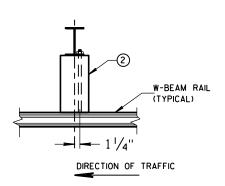
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



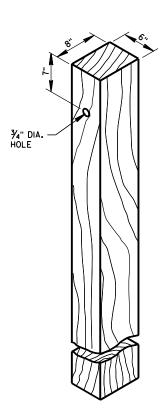
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



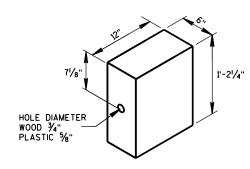
PLAN VIEW WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL  $^{\scriptsize \textcircled{1}}$ 



WOOD OR PLASTIC BLOCKOUT

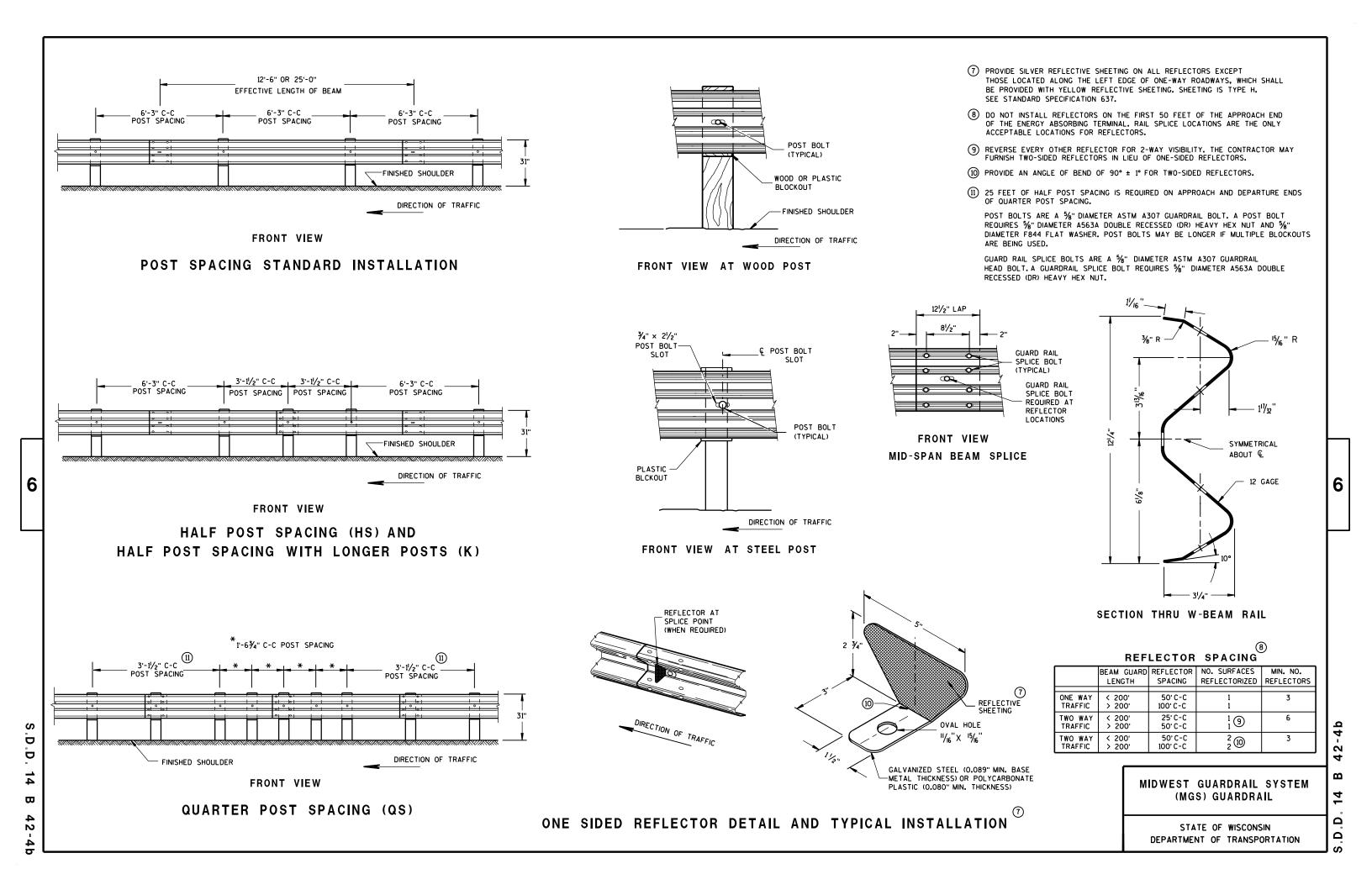
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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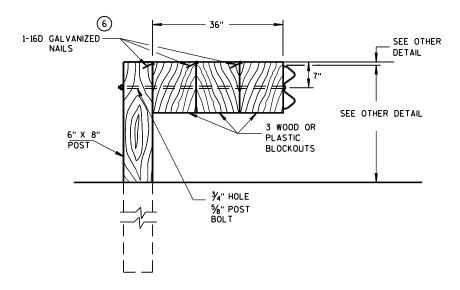
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#### DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

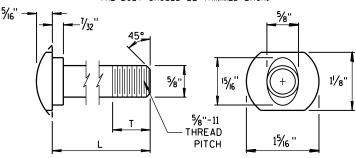


#### DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

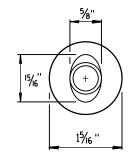
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

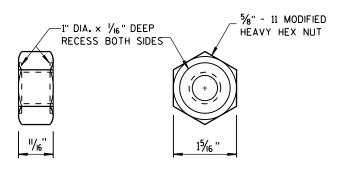


POST BOLT TABLE

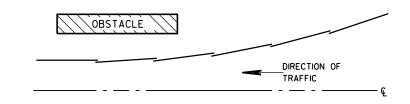
11/8"
1/8
13/4"
4"
4½ <sub>6</sub> "
4"
41/16"
4"



ALTERNATE BOLT HEAD

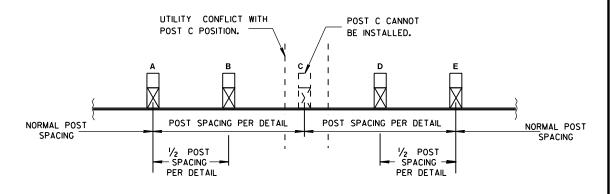


POST BOLT, SPLICE BOLT AND RECESS NUT



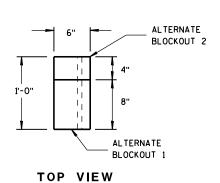
#### **PLAN VIEW**

#### **BEAM LAPPING DETAIL**



#### POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

#### ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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# SECTION A-A SECTION B-B

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PLAN VIEW

#### BILL OF MATERIALS

PART NO.	DESCRIPTION  MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



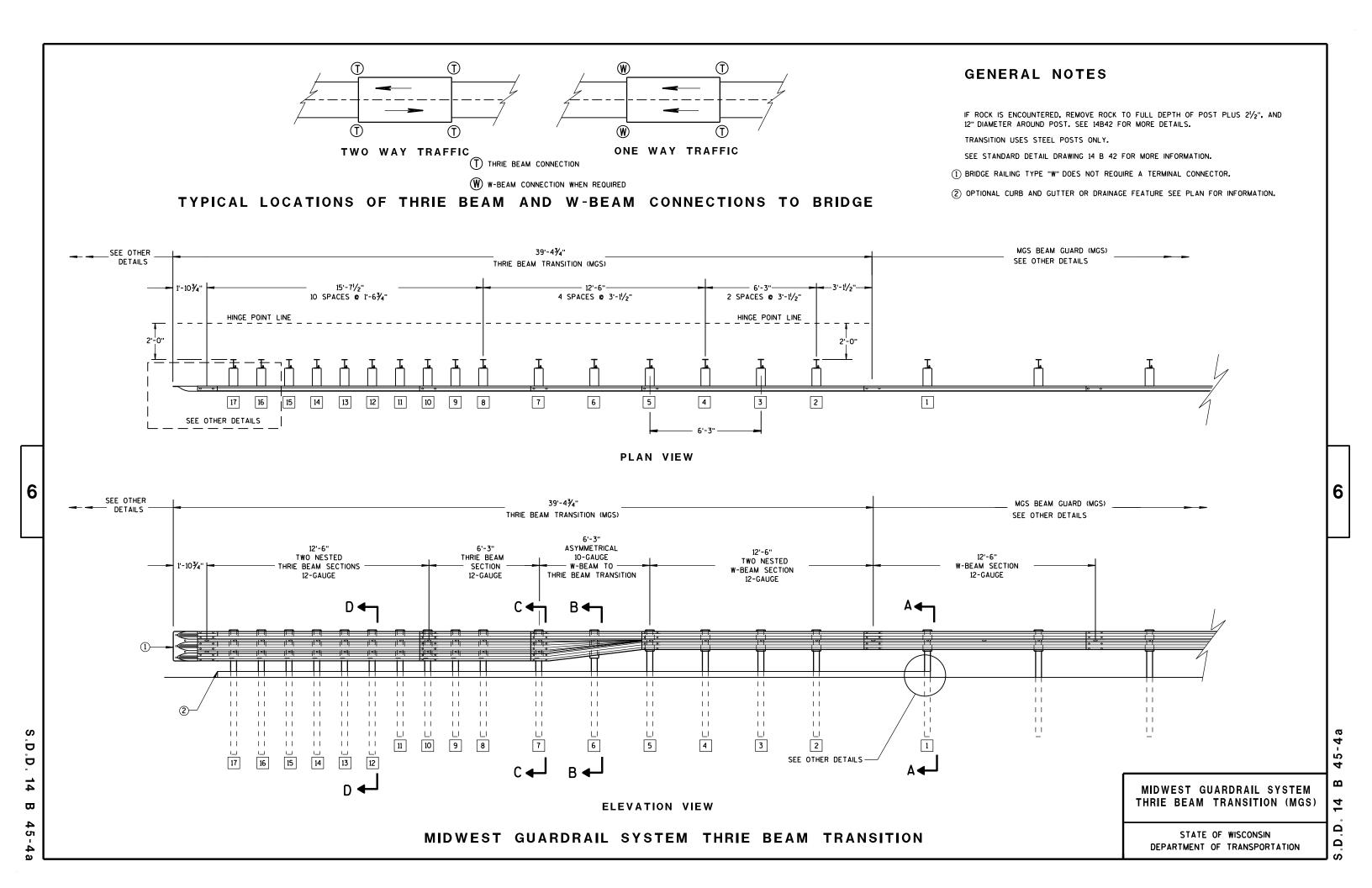
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

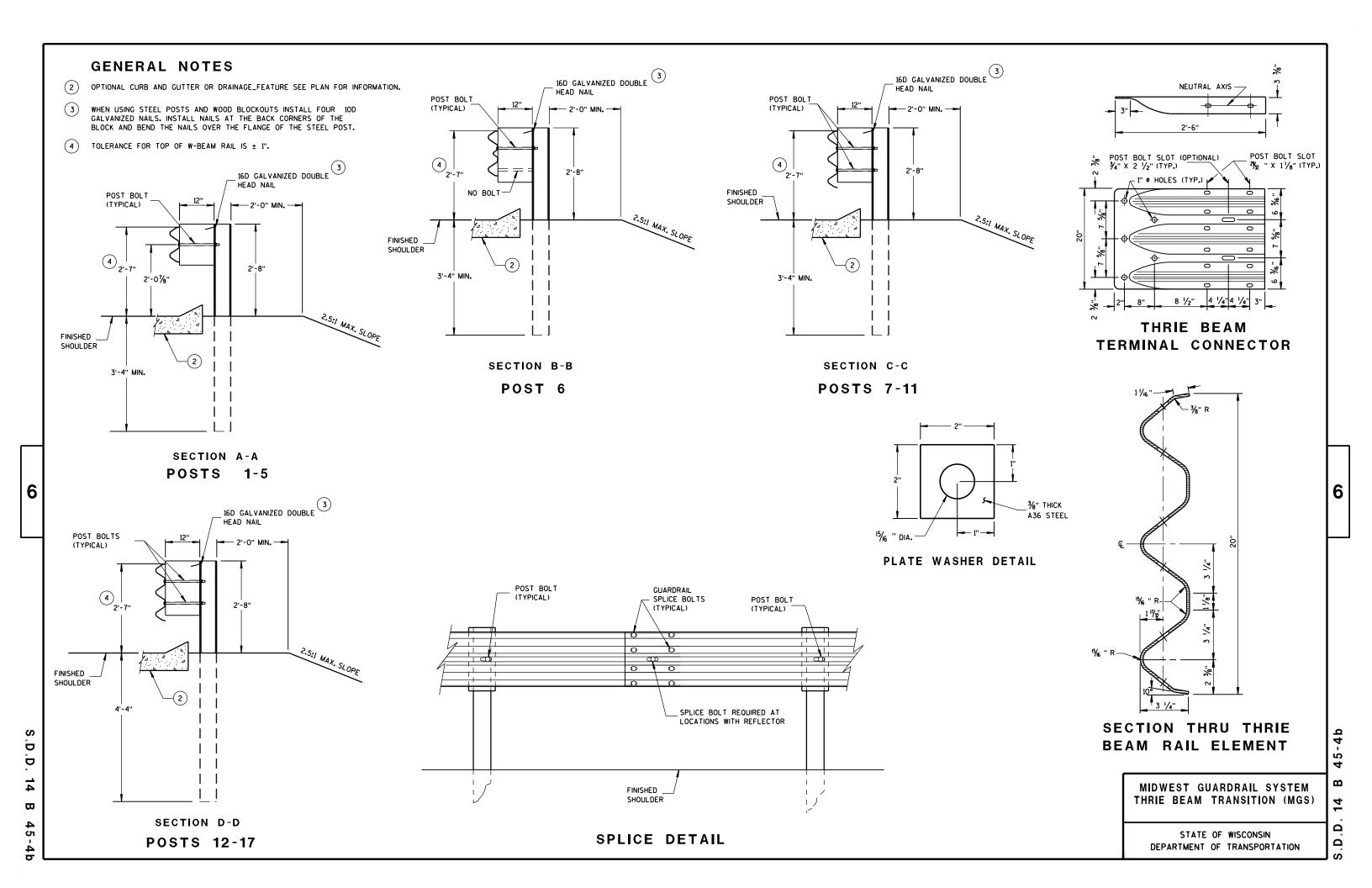
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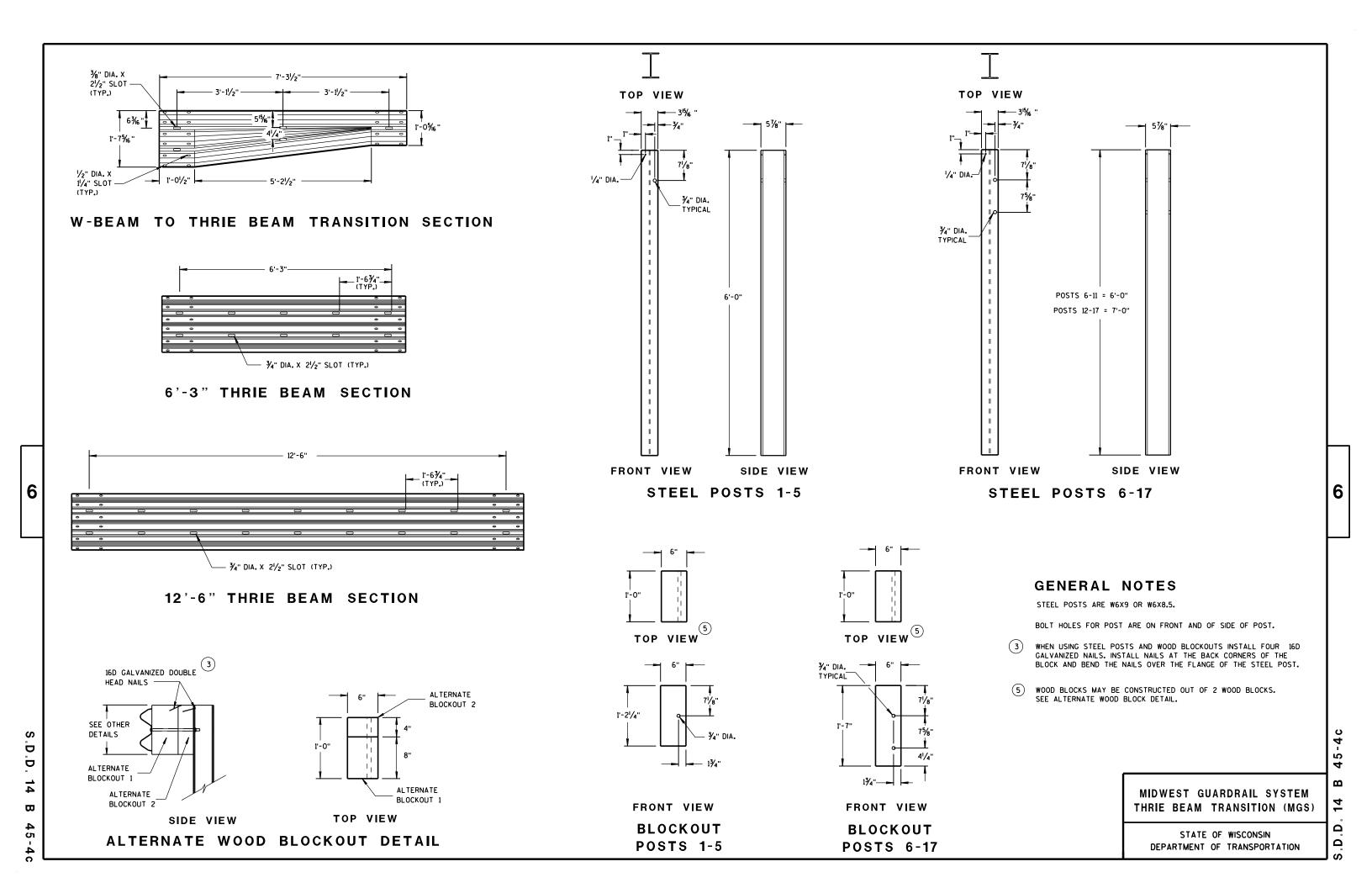
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	CONNE		R ASSEMBLY)	ON
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	в₫	20" × 20"	3√6 "
P2	1	B∱c	20" × 20" × 28 <b>%</b> 6"	¾6 "
Р3	1	B C D	39" × 35/8" × 20" × 191/6"	3/6 "
S1	4	B A	18 <b>%</b> 6" × 3 <b>%</b> " × 18 <b>¾</b> "	1/4"
S2	1	B D	10 <sup>1</sup> / <sub>4</sub> " × 2 <sup>7</sup> / <sub>16</sub> " × 10 <sup>3</sup> / <sub>8</sub> " × <sup>1</sup> / <sub>2</sub> "	1/4"
S3	1	B₽₽	3" × 1½6" × 3½" × ½"	1/4"
S4	1	в₫	61/8" × 21/16"	1/4"
S5	1	вФ	61/8" × 11/16"	1/4"
S6	1	в₾	7¾" × 1¾"	1/4"
<b>S7</b>	1	A DC	2%6" × 6" × 35%" × 57%"	1/4"
S8	1	4 <u>8</u> 4	1 <sup>5</sup> / <sub>32</sub> " × 7 <sup>1</sup> / <sub>2</sub> " × 2 <sup>1</sup> / <sub>2</sub> " × 7 <sup>3</sup> / <sub>8</sub> "	1/4"
S9	1	C <del>□</del> R	6½6" × 6¾6" × 1¾2"	1/4"
S10	1	A D C	11/8" × 91/8" × 35/8" × 911/16 "	1/4"
S11	1	c ≜	8½" × 8¾" × 1¼6 "	1/4"

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#### SINGLE SLOPE CONNECTION PLATE

#### MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

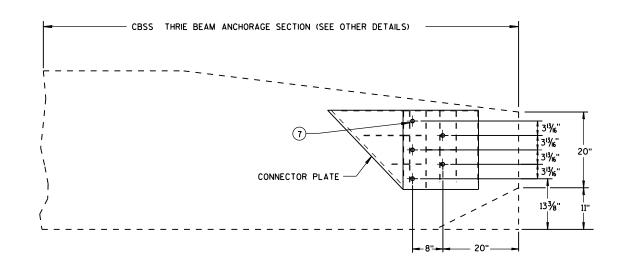
APPROVED	
2015	

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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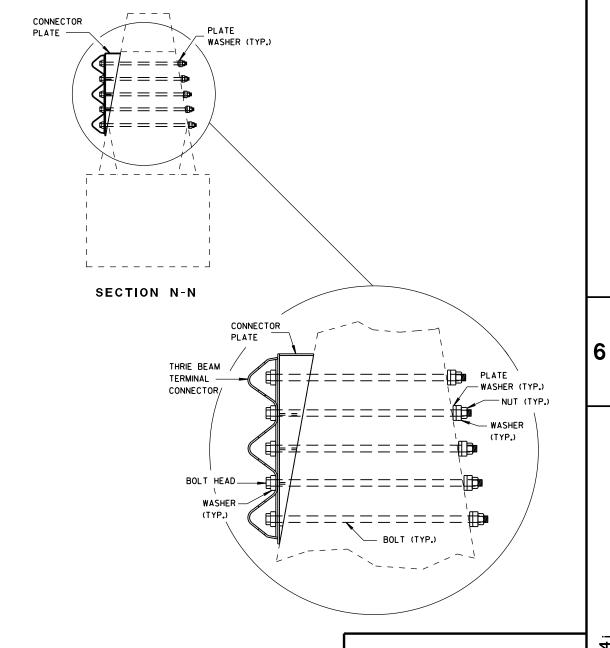


SINGLE SLOPE CONNECTION PLATE PLACEMENT

#### **GENERAL NOTES**

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

- 2 OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X %" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED
June, 2015 /S.

FHWA

OIS /S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT
ENGINEER

S.D.D. 14 B 4



## 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

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.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 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.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

#### BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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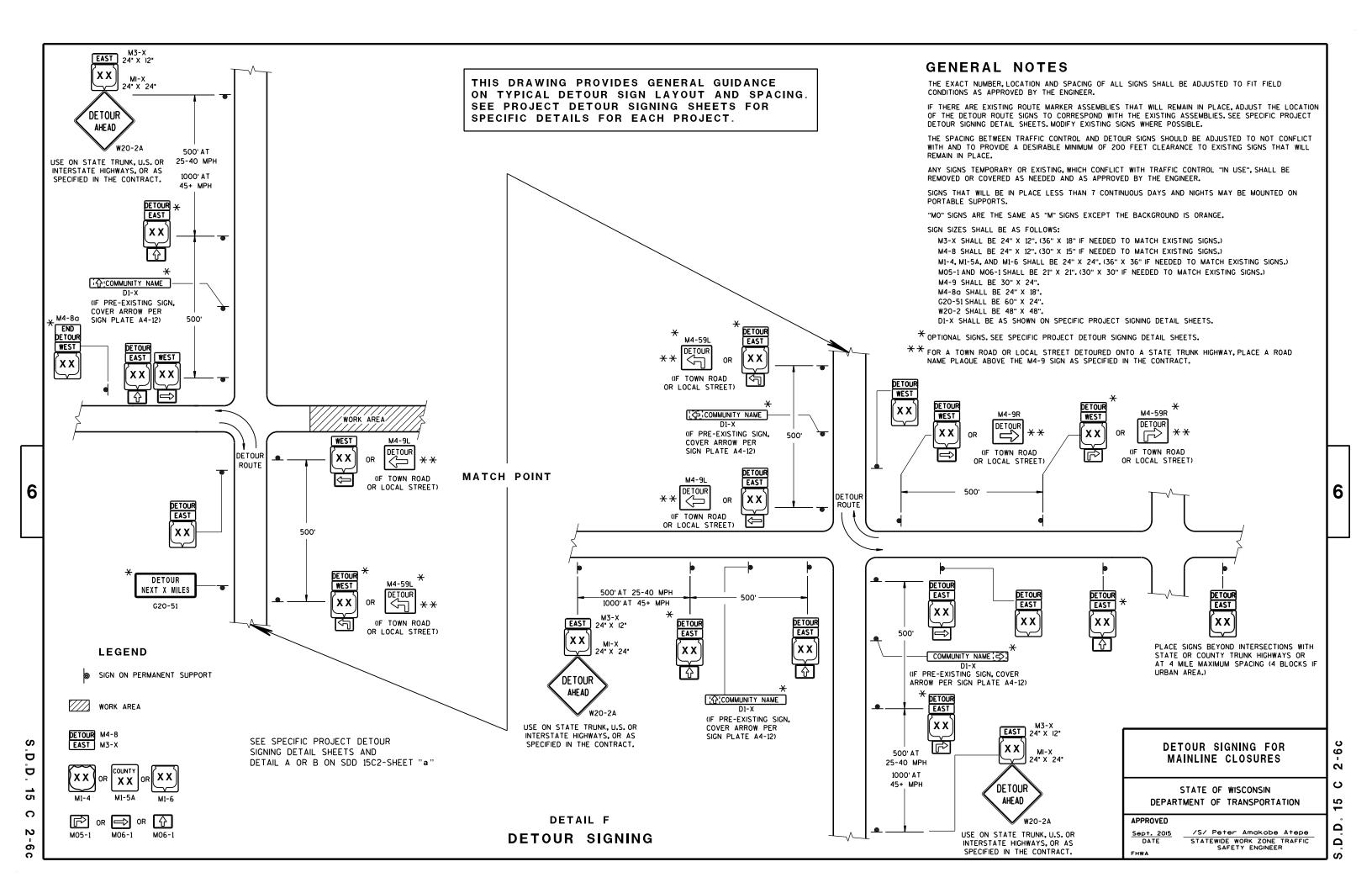
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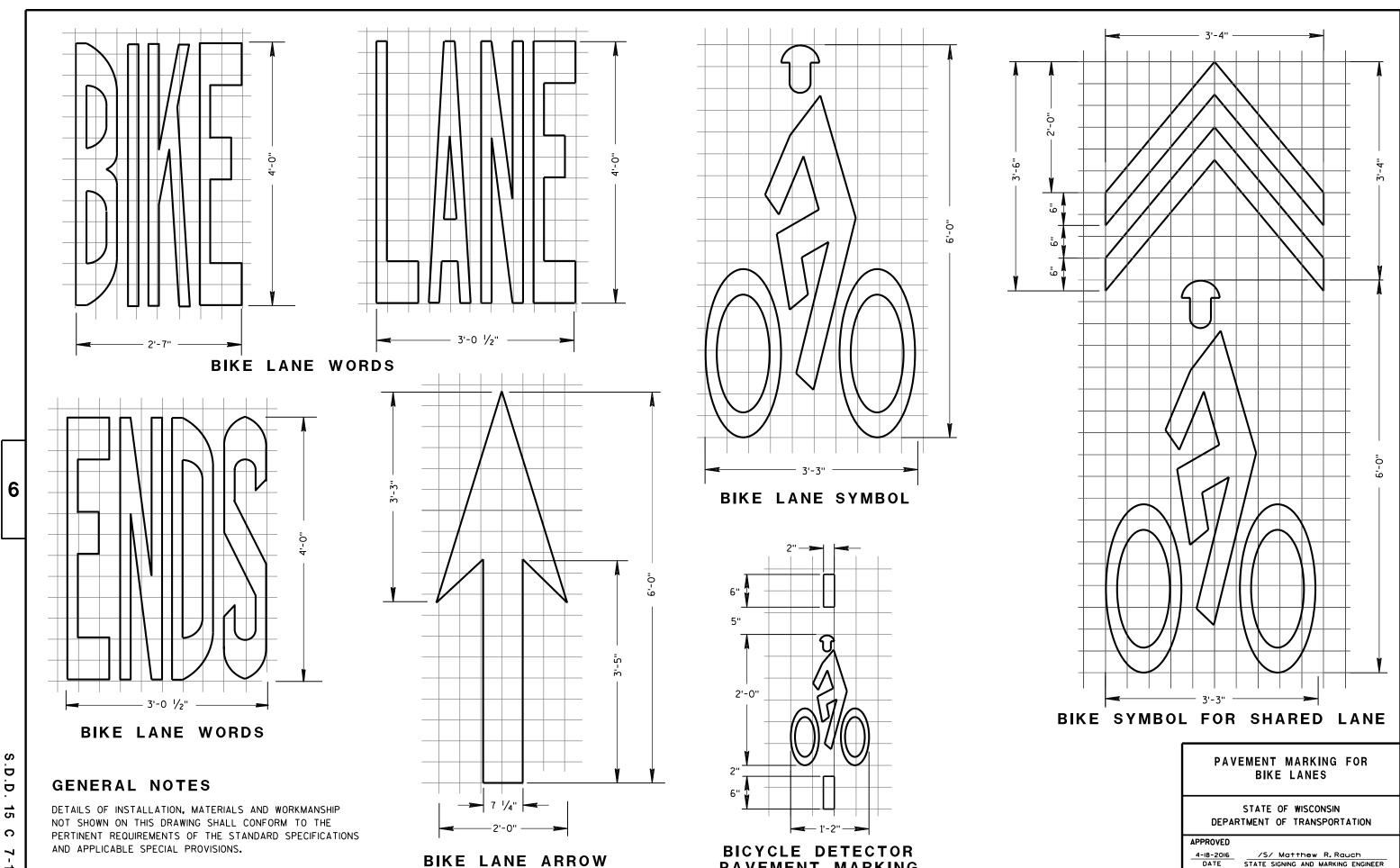
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





PAVEMENT MARKING

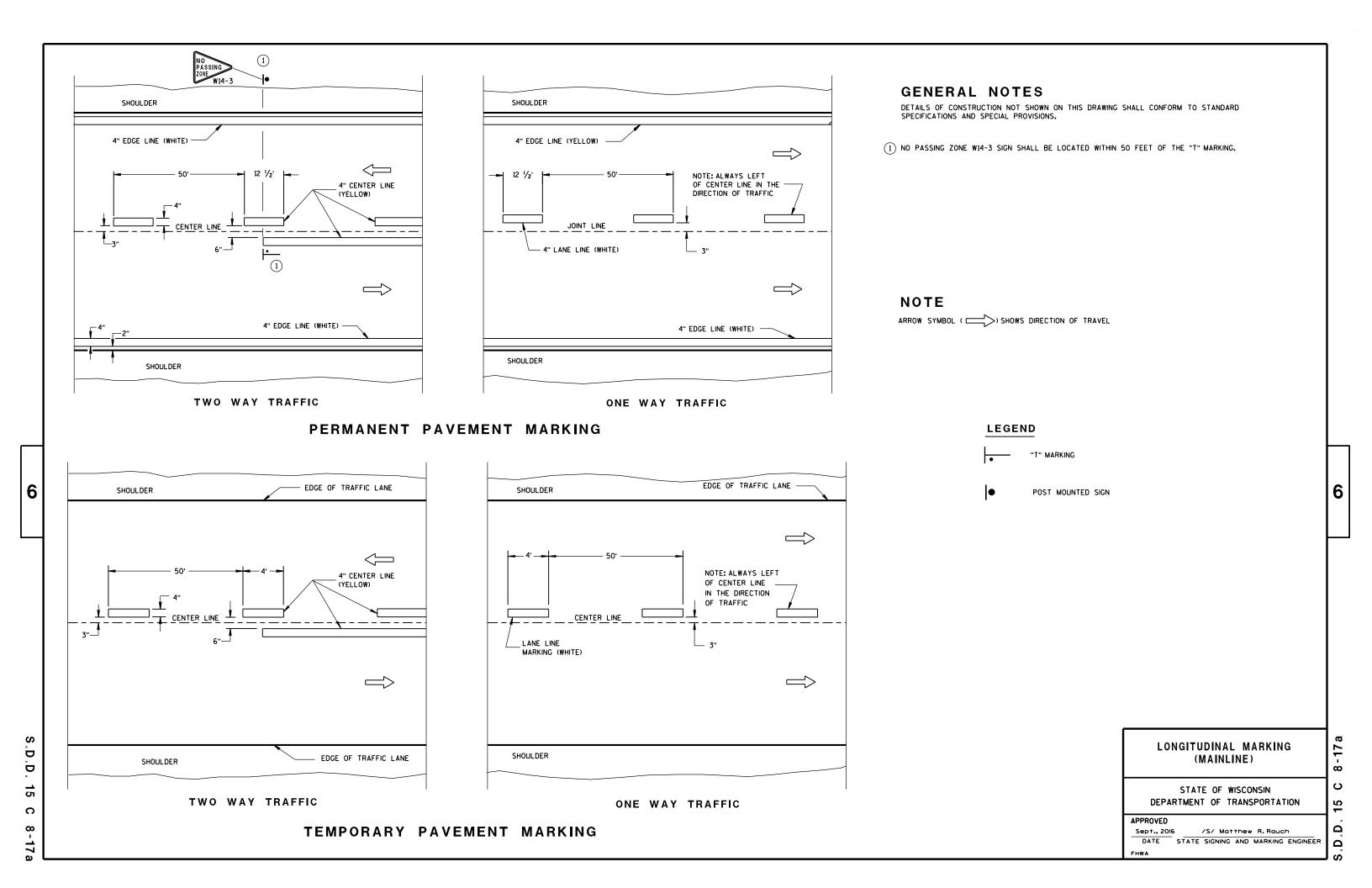
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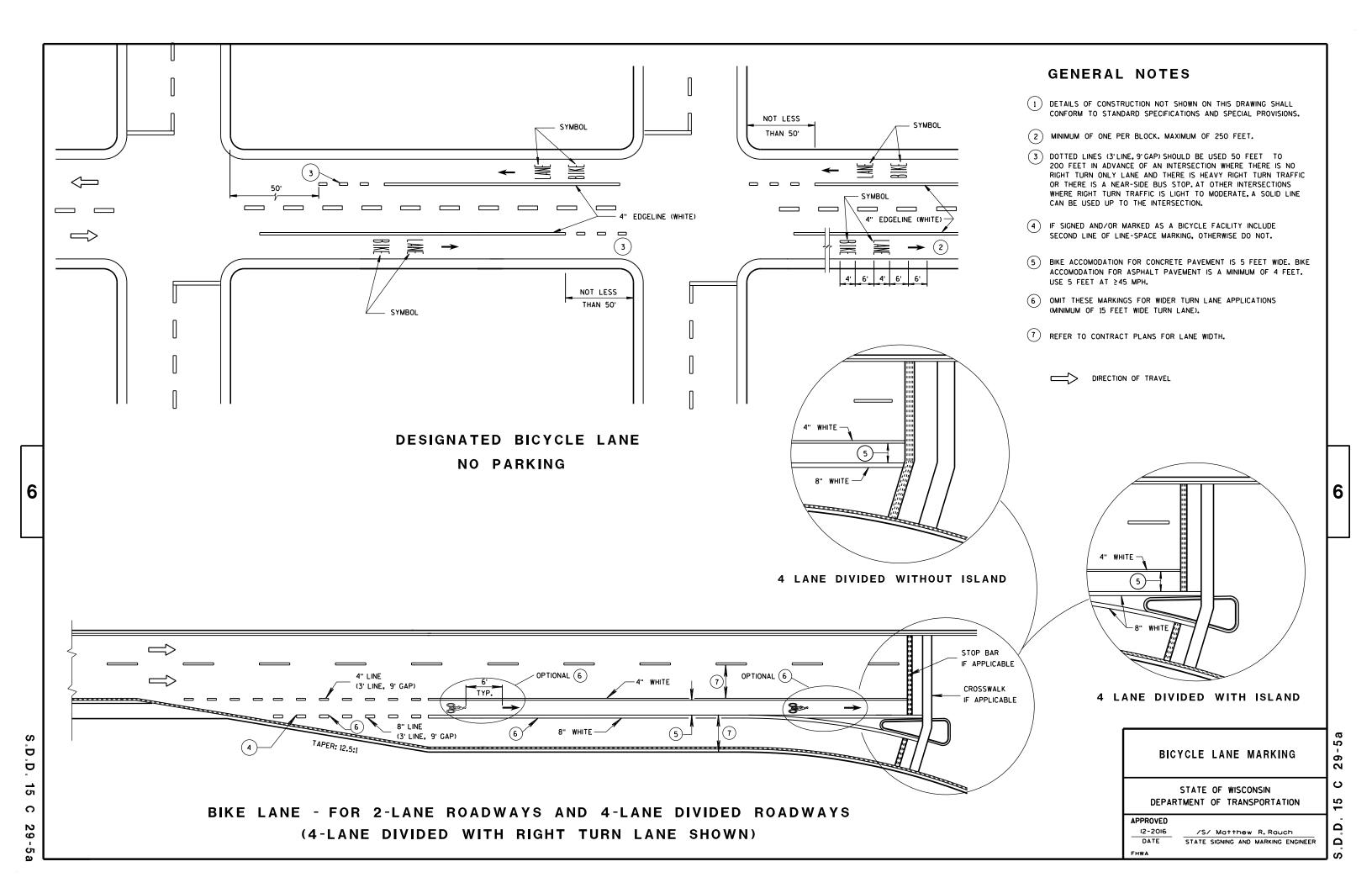
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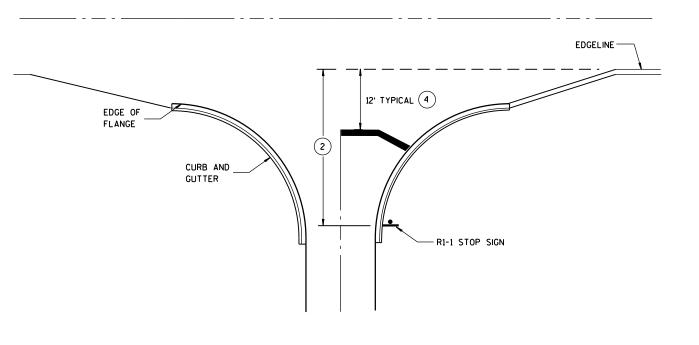
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STATE SIGNING AND MARKING ENGINEER

FHWA







8" CHANNELIZATION WHITE

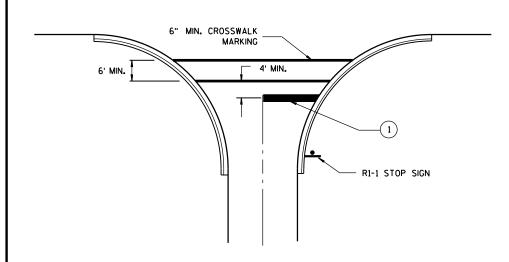
FLANGELINE (EXTENSION)

4" WHITE EDGELINE

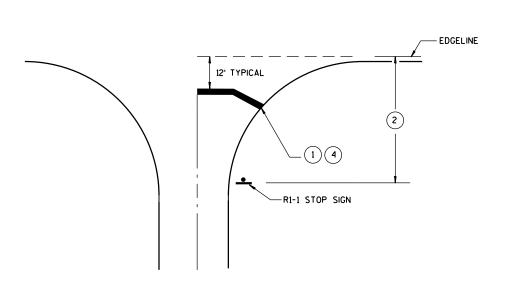
RI-1 STOP SIGN

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.
- MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

# STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
4-18-2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MARKING ENGINEER

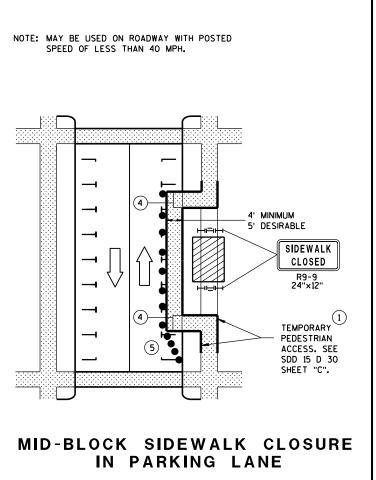
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NOTE: LAYOUT SAME AS ABOVE. 4' MINIMUM 5' DESIRABLE SIDEWALK CLOSED RQ-Q TEMPORARY PEDESTRIAN ACCESS. SEE SDD 15 D 30 SHEET "C". SIDEWALK DIVERSION

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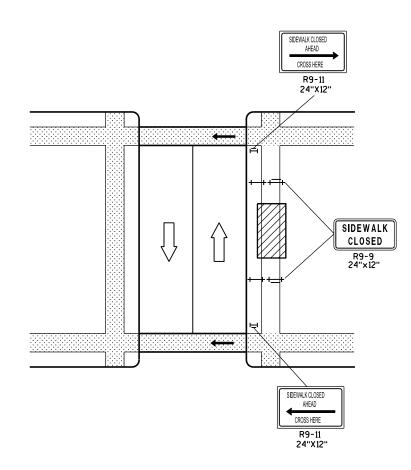
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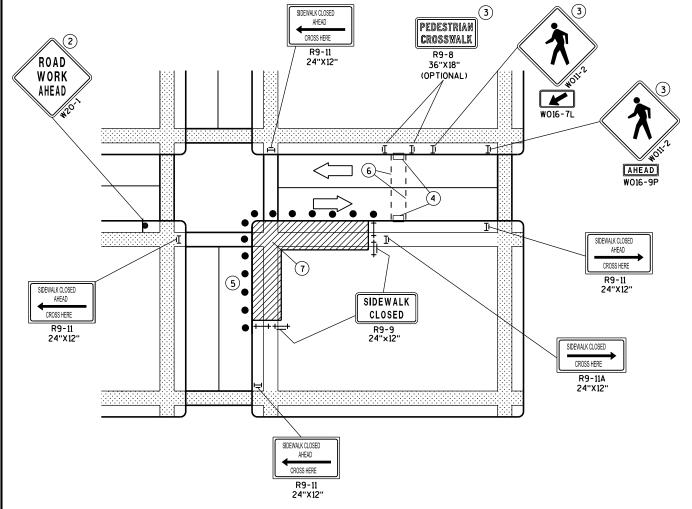
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MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

#### **GENERAL NOTES**

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- 1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.
- (2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- (3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
- (4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".
- (5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- (6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- (7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN

#### **LEGEND**

SIGN ON PERMANENT SUPPORT

UNDER PEDESTRIAN TRAFFIC

TRAFFIC TRAFFIC CONTOL DRUM

DIRECTION OF

WORK AREA PEDESTRIAN

CHANNELIZATION DEVICE

TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A. LOW-INTENSITY FLASHING)

TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)

#### TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

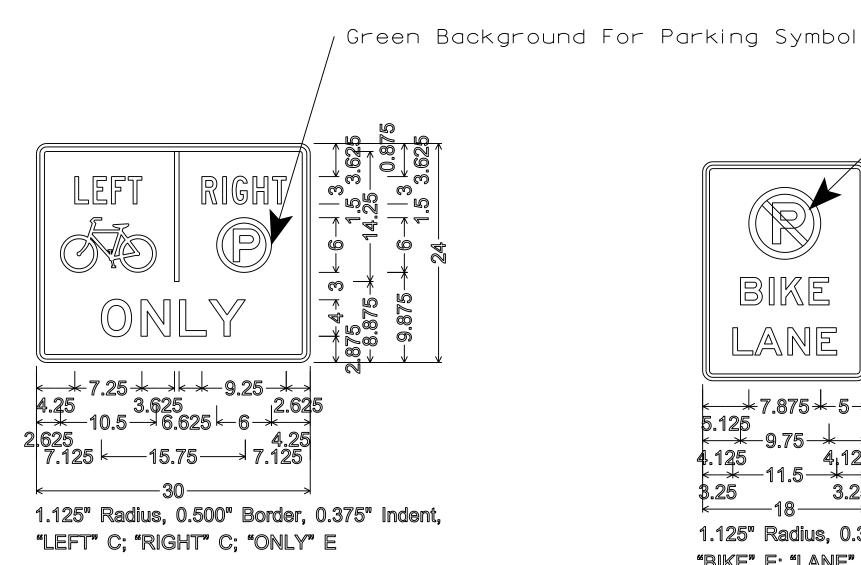
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION က 0 က Ω Ω

Ω

- 1. All Signs Type II Type H Reflective
- 2. Color:

Background - White Message - Black except as noted

3. Message Series - As noted



1.125" Radius, 0.375" Border, 0.375" Indent, "BIKE" E; "LANE" E

PROJECT NO:9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE PERMANENT SIGNING SHEET NO:

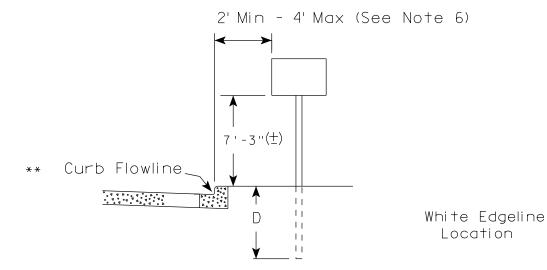
FILE NAME : C:\CAEfiles\Projects\tr\_d3\3381a717.DGN

PLOT DATE: 06-JUL-2017 16:23

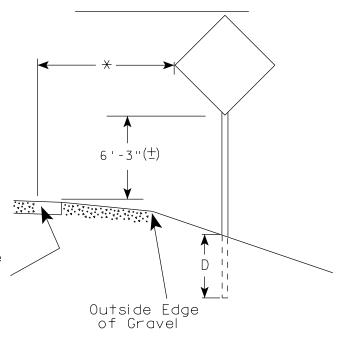
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 10.516276:1.000000

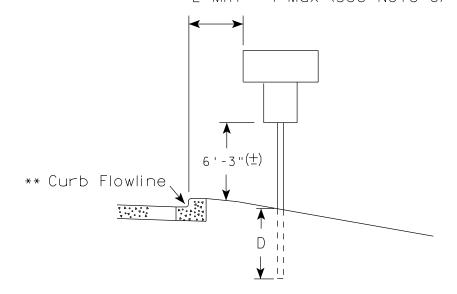
# URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) White Edgeline  $D^{-1}$ Location Outside Edae of Gravel

\*\* 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.

HWY:

\* 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.

PLOT BY : mscj9h

#### 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  $7'-3''(\pm)$  or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' ( $\pm$ ).
- 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'' ( $\pm$ ) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3"  $(\pm)$ . 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'' ( $\pm$ ).

#### POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY \* \$\$ nintuser \$\$

SHEET NO:

| | |



- 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

<b>*</b>								— А — ;								<b></b>			<b>A</b>	
									H			- G -							F	A
		E						               	-1			_//								*
D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	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

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>11/12/15</u>

PLATE NO. \_\_\_\_R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R11.DGN

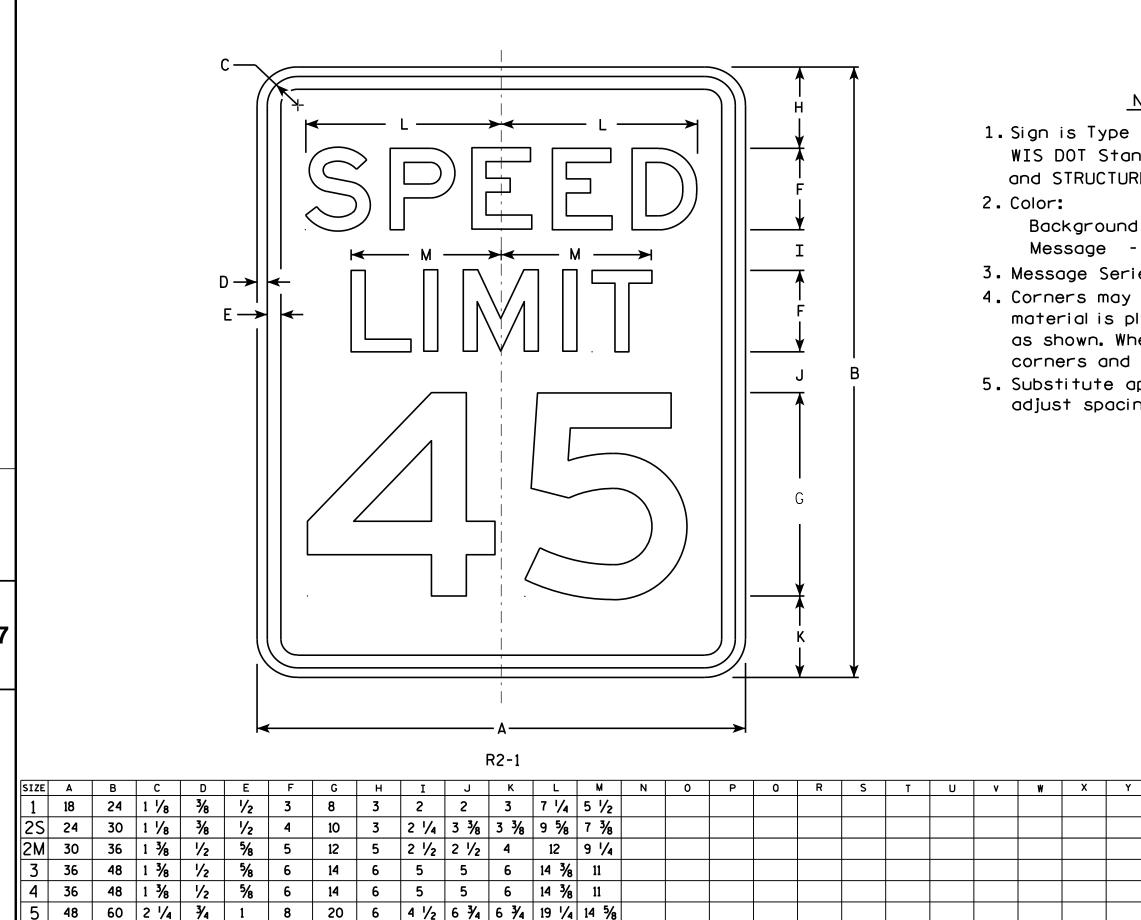
HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 4.427909:1.000000



COUNTY:

### NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raus

For State Traffic Engineer DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R21.DGN

PROJECT NO:

HWY:

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

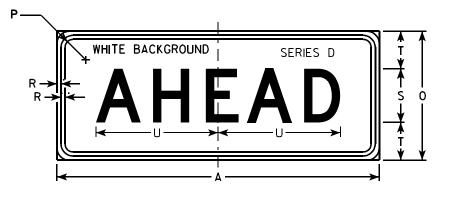
PLOT SCALE: 4.717577:1.000000



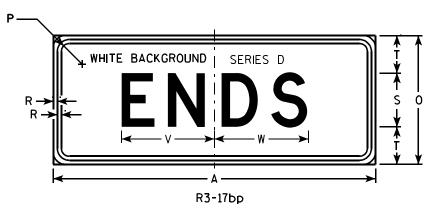
- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - AS SHOWN
Message - BLACK

- 3. Message Series C or as noted on the Signs.
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-17ap



																											R3-17	R3-17ap	R3-17b
IZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Areg sq. ff.	Areg sq. it.	Areg sq. fr.
1																													
25	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 1/8	6 3/8	9 1/2	2 5/8	7∕8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 %	8 3/4	2 3/8	15 %	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 1/8	6 3/8	9 1/2	2 5/8	7∕8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 %	8 3/4	2 3/8	15 %	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN R3-17 & R3-17a&bp

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & R.

For State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\R317.DCN

PROJECT NO:

PLOT DATE: 02-APR-2013 14:09

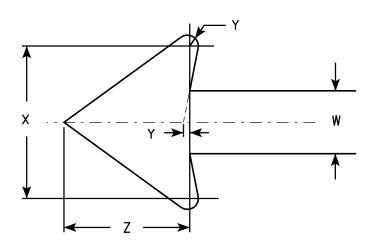
PLOT BY: mscj9h



- 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 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.R7-51D (double arrow) R7-51R (right arrow) R7-51L (left arrow)
- 6. Lines 1, 3 and 4 are Series C. Line 2 is Series B.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Areg sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 %	2	<b>1</b> / <sub>8</sub>	5/8	1 1/2	2 1/2	2	2	4 1/8	4 1/8	4 1/8	5/8	1 3/4	2 1/2	4 3/8	3 %	3/4	1 3/4	1/8	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 %	7 1/8	7	5 3/4	1 1/8	1 1/2	3 1/8	5 ½	5 %	1 1/8	2 5/8	1/4	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	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	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	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

COUNTY:

STANDARD SIGN R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 3/31/2011

PLATE NO. R7-51.6

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R751.DGN

HWY:

PROJECT NO:

PLOT DATE: 31-MAR-2011 11:28

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 3.476110:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

A R N N S S S S S S S S S S S S S S S S S	
W1-1R	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	<b>7</b> ⁄8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
25	36		1 5/8	5/8	3/4		4 ½	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
2M	36		1 %	5/8	₹4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
3	36		1 5/8	5/8	3∕4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 1/8	1 %	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 ½	10	4 1/8	1 %	8	1	14	19		1 1/4	6 1/2								16.0

COUNTY:

STANDARD SIGN W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe

 $f_{or}$  State Traffic Engineer
DATE 5/15/12 PLATE NO. W1-1.11

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W11.DGN

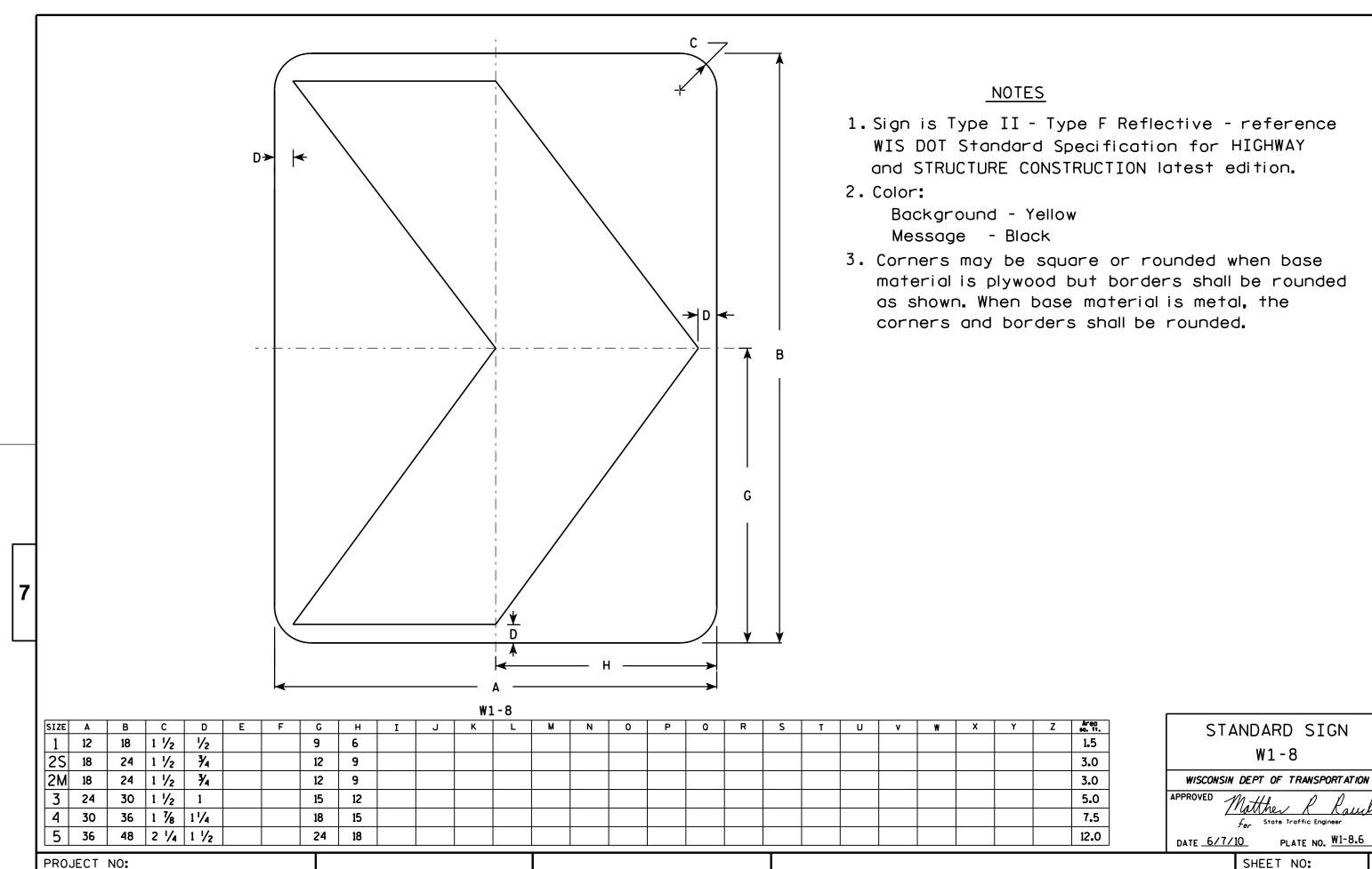
PROJECT NO:

HWY:

PLOT DATE: 15-MAY-2012 13:47

PLOT BY: mscsja PLOT NAME:

PLOT SCALE: 7.939035:1.000000



FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W18.DGN

PLOT DATE: 07-JUN-2010 12:55 PLOT BY : ditjph PLATE NO. W1-8.6

W1 - 8

For State Traffic Engineer

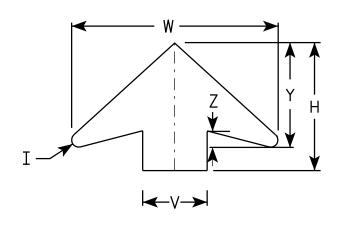
SHEET NO:

- 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 for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

\*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3∕8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3∕8	9 3/4	1 %	9.0
2M	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 ¾	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	<b>%</b>	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9	12	8	25 %	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	<b>1</b> / <sub>8</sub>	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

DATE 5/29/12 PLATE NO. W3-5.5

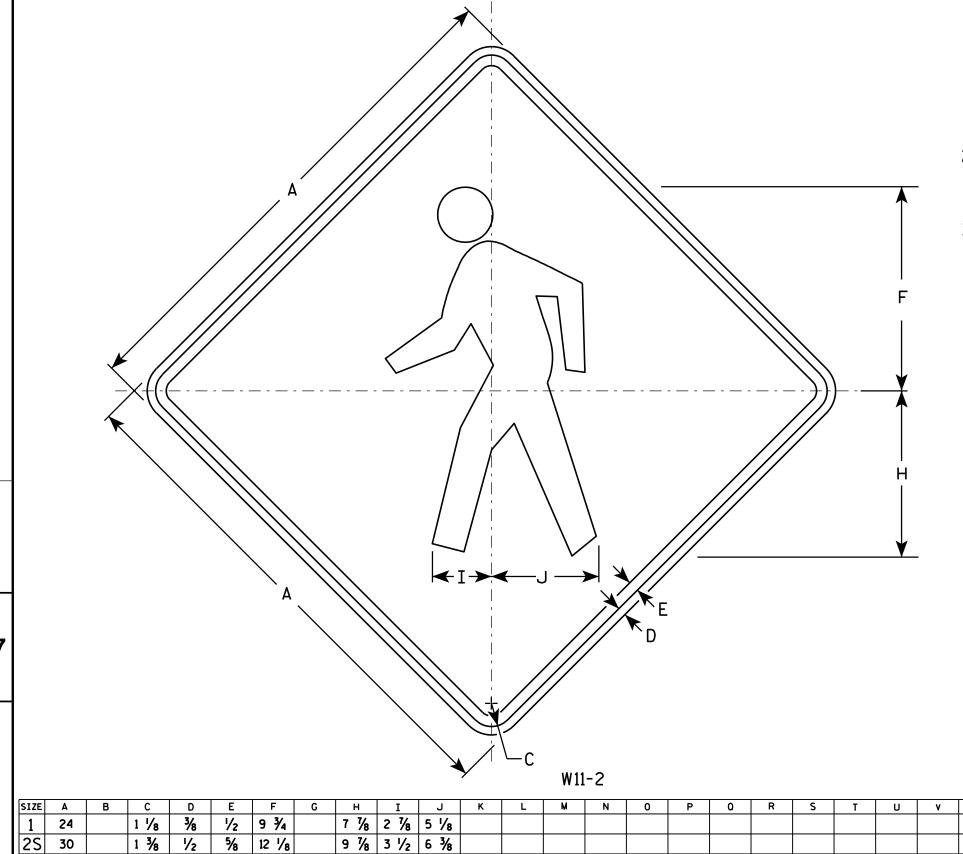
SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W35.DGN

PROJECT NO:

PLOT DATE: 29-MAY-2012 10:52

PLOT BY: mscsja



# <u>NOTES</u>

- 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.

STANDARD SIGN W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 6/7/10

PLATE NO. W11-2.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W112.DGN

1 1/8

1 %

2 1/4 3/4

2M

3

4 48

5

PROJECT NO:

5/8

5/8

3/4

14 1/2

3/4 14 1/2

1 19 3/8

11 1/8 4 1/4 7 5/8

11 1/8 4 1/4 7 5/8

15 3/4 5 5/8 10 1/4

HWY:

PLOT DATE: 07-JUN-2010 13:29

COUNTY:

PLOT NAME :

PLOT BY: ditjph

4.0

6.25

9.0

9.0

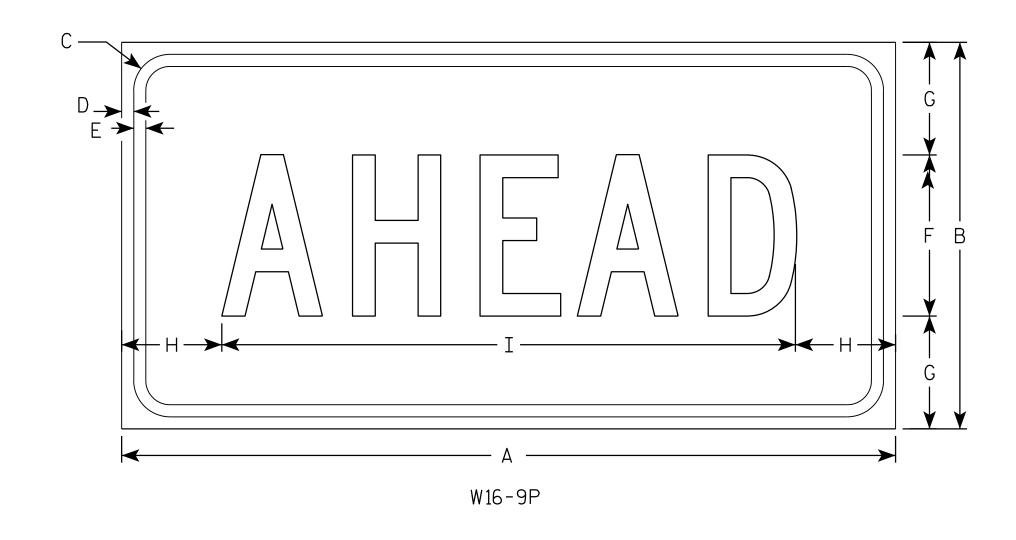
16.0

PLOT SCALE: 5.700818:1.000000

- 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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 ¾																		8.0
5																											

COUNTY:

STANDARD SIGN W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 12/28/10

PLATE NO. W16-9P.6

SHEET NO:

PLOT NAME :

PLOT BY: dotsja

HWY:

PROJECT NO:

RIVERSIDE A	AVENUE									
				VOL	UME		VOL	UME		
		END-	AREA	INCREM	IENTAL	(	CUMUL	ATIVE		MASS
STATION	LENGTH	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	HAUL
		SQ	FT	CU	YD	CU Y	D	CU	YD	CU YD
00+68.45		70.6	0.4							
	31.55			101.6	0.2	101.6	1.0	0.3	1.25	101.4
01+00.00		103.3	0.0							
	50.00			184	0.0	285.6	1.0	0.3	1.25	285.4
01+50.00		95.4	0.0	40- 4		4-0-0			4 0=	450.0
00.00.00	50.00	05.4	0 0	167.4	0.0	453.0	1.0	0.3	1.25	452.8
02+00.00	<b>50.00</b>	85.4	0.0	154 4	0.0	607.4	1.0	0.2	1 05	607.2
02+50.00	50.00	81.4	0.0	154.4	0.0	607.4	1.0	0.3	1.25	607.2
02+50.00	50.00	01.4	0.0	149.1	0.0	756.5	1.0	0.3	1.25	756.3
03+00.00	30.00	79.6	0.0	149.1	0.0	730.3	1.0	0.3	1.23	730.3
00.00.00	50.00	'3.0	0.0	149	0.0	905.5	1.0	0.3	1.25	905.3
03+50.00	00100	81.3	0.0	143	0.0	30010		0.0	1120	30010
00.00100	50.00	****	0.0	151.2	0.0	1056.7	1.0	0.3	1.25	1056.5
04+00.00		82.0	0.0							
	50.00			151.2	0.0	1207.9	1.0	0.3	1.25	1207.7
04+50.00		81.3	0.0							
	50.00			187.5	0.4	1395.4	1.0	0.8	1.25	1394.7
05+00.00		121.2	0.4							
	50.00			183.1	0.8	1578.5	1.0	1.8	1.25	1576.8
05+50.00		76.5	0.5							
	50.00			137.1	0.8	1715.6	1.0	2.8	1.25	1712.9
06+00.00		71.6	0.4							
	5.00			13	0.1	1728.6	1.0	2.9	1.25	1725.7
06+05.00		68.9	1.0							
	45.00			112.1	1.5	1840.7	1.0	4.8	1.25	1836.0
06+50.00		65.6	0.8							
	10.00			24.5	0.2	1865.2	1.0	5.0	1.25	1860.2
06+60.00		66.6	0.5							
	40.00			103	0.5	1968.2	1.0	5.6	1.25	1962.6
07+00.00		72.4	0.2							
	23.00			60	0.3	2028.2	1.0	6.0	1.25	2022.2
07+23.00		68.5	0.5							
	27.00			69.3	0.4	2097.5	1.0	6.5	1.25	2091.0
07+50.00	50.00	70.0	0.3	404.0		0000 4		- 4	4 05	0000
08+00.00	50.00	70 4	0.5	131.9	0.7	2229.4	1.0	7.4	1.25	2222.0
08+00.00	F0 00	72.4	0.5	100 5	0.5	0445 0	4.0	0 0	1 05	0407.0
00150 00	50.00	1,00 0	0 0	186.5	0.5	2415.9	1.0	8.0	1.25	2407.9
08+50.00	05 00	129.0	0.0	104.5	0.0	0546.6	4 ^	0 0	4 6-	0500 4
00.175.00	25.00	1,00	0 4	124.4	0.2	2540.3	1.0	8.3	1.25	2532.1
08+75.00	05 00	139.6	0.4	100	0 0	0640.0	4 ^	0 =	1 05	0604 0
00+00 00	25.00	76.2	0 0	100	0.2	2640.3	1.0	8.5	1.25	2631.8
09+00.00	E0 00	76.3	0.0	144	0.3	2794 2	1 ^		1 05	2775 4
00150 00	50.00	79.2	0.3	144	0.3	2784.3	1.0	8.9	1.25	2775.4
09+50.00	42.00	19.2	0.3	61.6	0.2	2845.9	1 0	9.1	1 25	2836.8
	74.00			01.0	0.2	2040.5	1.0	J. I	1123	2000.0

			VOL	.UME		VOL	UME			
		END-	AREA	INCRE	MENTAL	С	UMUL	ATIVE		MASS
STATION	LENGTH	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	HAUL
		SQ	FT	CU	YD	CU Y	)	CU	YD	CU YD
09+92.00	2 22	104.4	0.2		•				4 0=	2222 4
10+00.00	8.00	116.1	0.3	32.7	0.1	2878.6	1.0	9.3	1.25	2869.4
	50.00			206.2	0.8	3084.8	1.0	10.3	1.25	3074.6
10+50.00	35.00	106.6	0.6	130.6	0.4	3215.4	1.0	10.8	1.25	3204.7
10+85.00		95.0	0.0							
11+00.00	15.00	93.9	0.0	52.5	0.0	3267.9	1.0	10.8	1.25	3257.2
	50.00			164.8	0.0	3432.7	1.0	10.8	1.25	3422.0
11+50.00	50.00	84.2	0.0	155	0.0	3587.7	1.0	10.8	1.25	3577.0
12+00.00		83.2	0.0							
12+50.00	50.00	75.3	0.0	146.8	0.0	3734.5	1.0	10.8	1.25	3723.8
12:00:00	15.00	1010		39.5	0.0	3774.0	1.0	10.8	1.25	3763.3
12+65.00	35.00	66.8	0.0	88	0.0	3862.0	1.0	10.8	1.25	3851.3
13+00.00		69.0	0.0							
13+50.00	50.00	70.9	0.0	129.5	0.0	3991.5	1.0	10.8	1.25	3980.8
	50.00			135.3	0.6	4126.8	1.0	11.5	1.25	4115.3
14+00.00	50.00	75.3	0.6	150.5	1.0	4277.3	1.0	12.8	1.25	4264.6
14+50.00		87.2	0.5							
14+75.00	25.00	89.6	0.1	81.9	0.3	4359.2	1.0	13.1	1.25	4346.1
	25.00			95.2	0.1	4454.4	1.0	13.3	1.25	4441.2
15+00.00	50.00	116.1	0.2	264.1	0.5	4718.5	1.0	13.9	1.25	4704.6
15+50.00		169.2	0.3							
16+00.00	50.00	182.1	0.4	325.2	0.6	5043.7	1.0	14.6	1.25	5029.1
	50.00			330.3	1.6	5374.0	1.0	16.6	1.25	5357.4
16+50.00	50.00	174.6	1.3	314	2.2	5688.0	1.0	19.4	1.25	5668.6
17+00.00		164.5	1.1							
17+50.00	50.00	141.2	2.4	283	3.2	5971.0	1.0	23.4	1.25	5947.6
	50.00			251.8	5.6	6222.8	1.0	30.4	1.25	6192.4
18+00.00	50.00	130.8	3.6	239.8	6.1	6462.6	1.0	38.0	1.25	6424.6
18+50.00		128.2	3.0							
19+00.00	50.00	128.5	2.0	237.8	4.6	6700.4	1.0	43.8	1.25	6656.7
	50.00			259.3	3.2	6959.7	1.0	47.8	1.25	6912.0
19+50.00	50.00	151.5	1.5	280.6	1.9	7240.3	1 0	50 1	1.25	7190.2
20+00.00		151.5	0.5			7.24010			20	

PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE EARTHWORK DATA SHEET NO:

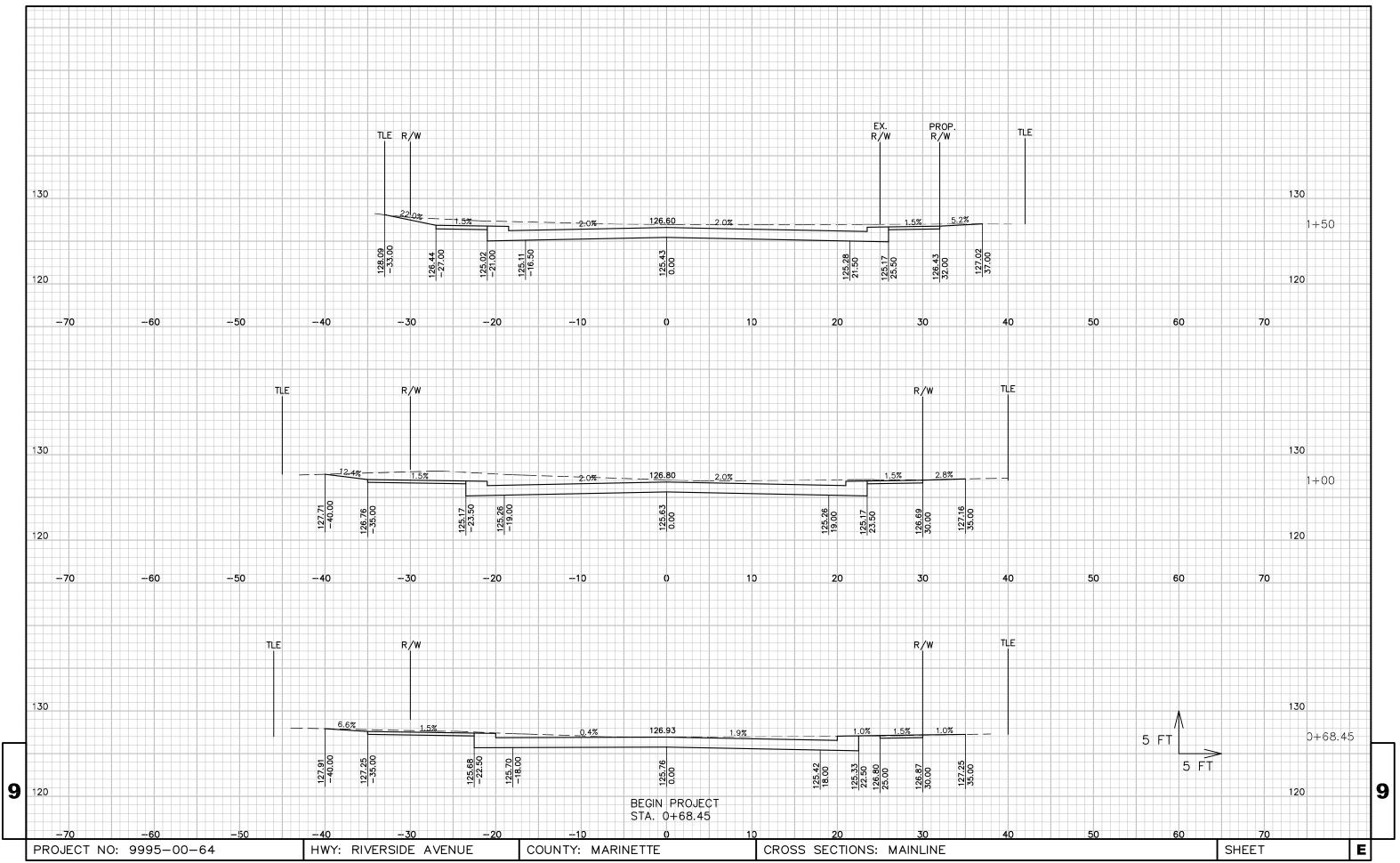
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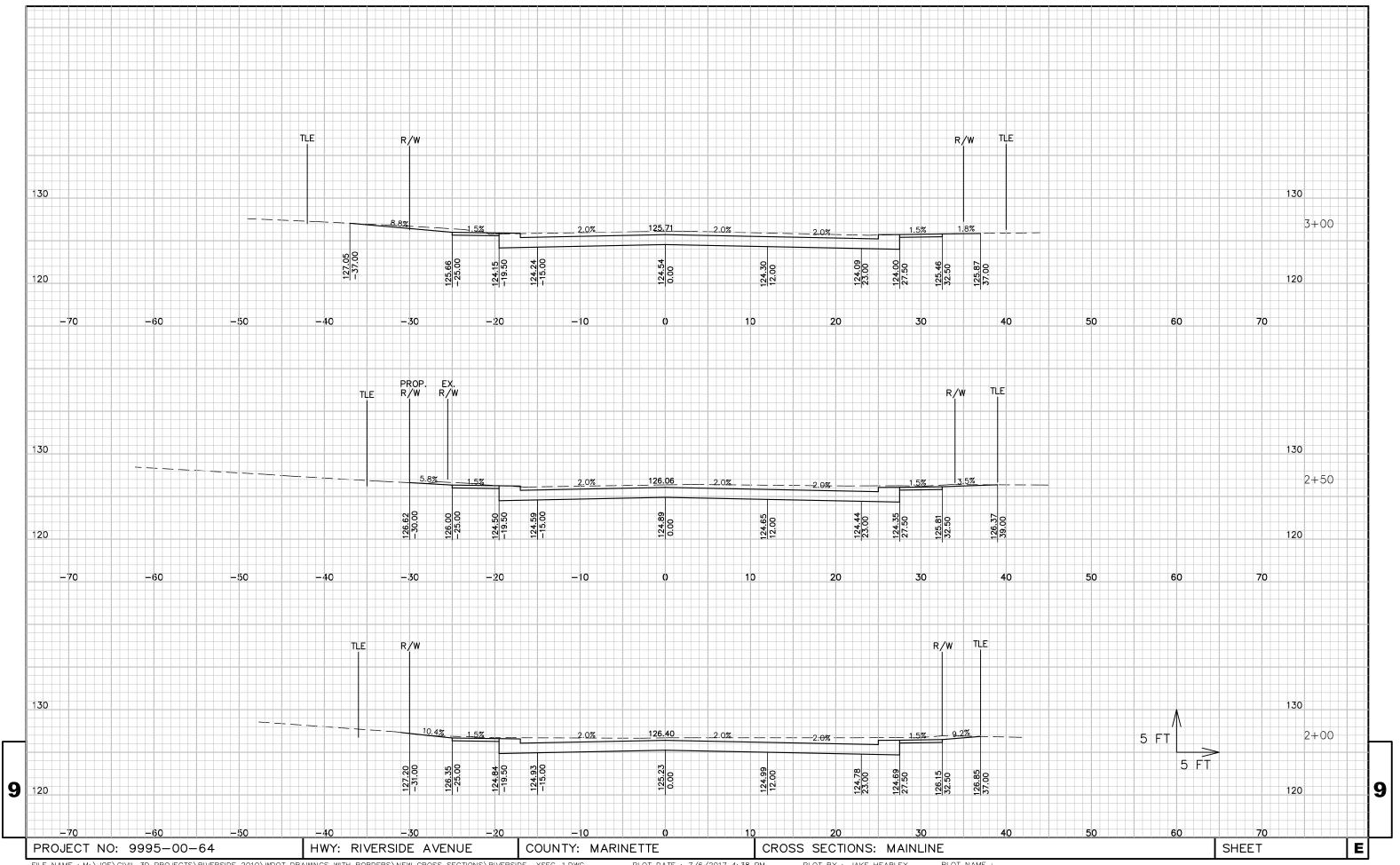
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		END-	AREA	INCREM	ENTAL	C	UMUL	ATIVE		MASS
STATION	LENGTH	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	HAUL
		SQ	FT	CU	YD	CU Y	D	CU	YD	CU YD
20+50.00		73.9	2.9							
	50.00			134.8	5.7	7375.1	1.0	57.3	1.25	7317.9
21+00.00		71.7	3.3							
	50.00			128.1	6.6	7503.2	1.0	65.5	1.25	7437.7
21+50.00		66.7	3.8							
	50.00			119.1	4.1	7622.3	1.0	70.6	1.25	7551.7
22+00.00	50.00	61.9	0.6	440.7		7700 0		74.0	4 05	7004 4
22+50.00	50.00	60.9	3.1	113.7	3.4	7736.0	1.0	74.9	1.25	7661.1
22+50.00	50.00	00.9	3.1	114.2	3.1	7850.2	1 0	70 0	1.25	7771.5
23+00.00	30.00	62.4	0.3	114.2	3.1	7830.2	1.0	70.0	1.23	7771.5
20.00.00	50.00	02.4	0.0	165.1	3.7	8015.3	1.0	83.4	1.25	7931.9
23+50.00	33.33	115.9	3.7		• • • • • • • • • • • • • • • • • • • •			•••	0	,
	50.00			173.9	3.6	8189.2	1.0	87.9	1.25	8101.3
24+00.00		71.9	0.2							
	50.00			128.1	3.2	8317.3	1.0	91.9	1.25	8225.4
24+50.00		66.5	3.3							
	50.00			123.4	4.1	8440.7	1.0	97.0	1.25	8343.7
25+00.00		66.8	1.1							
	50.00			170.5	4.0	8611.2	1.0	102.0	1.25	8509.2
25+50.00		117.3	3.2							
	50.00			173	3.1	8784.2	1.0	105.9	1.25	8678.3
26+00.00		69.5	0.2	400.0				400.0		
06150 00	50.00	71.9	16	130.9	1.7	8915.1	1.0	108.0	1.25	8807.1
26+50.00	50.00	11.9	1.6	134.3	4.9	9049.4	1 0	11/ 1	1 25	8935.3
27+00.00	30.00	73.1	3.7	134.3	4.3	3049.4	1.0	114.1	1.23	0933.3
27 - 00 100	50.00	' ' ' '	017	138.3	5.8	9187.7	1.0	121.4	1.25	9066.3
27+50.00		76.3	2.6							
	50.00			142.1	2.4	9329.8	1.0	124.4	1.25	9205.4
28+00.00		77.2	0.0							
	50.00			146	1.0	9475.8	1.0	125.6	1.25	9350.2
28+50.00		80.5	1.1							
	50.00			149.4	1.1	9625.2	1.0	127.0	1.25	9498.2
29+00.00		80.9	0.1							
	50.00	l		144.9	1.9	9770.1	1.0	129.4	1.25	9640.7
29+50.00	F0 00	75.6	1.9	400.0	0.4	0000	4 ^	100 0	4 05	0776 0
30+00.00	50.00	74.2	0.4	138.8	2.1	9908.9	1.0	132.0	1.25	9776.9
30+00.00	50.00	74.3	0.4	132.8	3.1	10041.7	1 0	135 0	1 25	9905.8
30+50.00	30.00	69.1	3.0	132.6	3.1	10041.7	1.0	133.9	1.23	9905.6
00.00100	50.00		0.0	123.5	4.7	10165.2	1.0	141.8	1.25	10023.5
31+00.00	23.00	64.3	2.1						20	
	50.00			174.6	3.7	10339.8	1.0	146.4	1.25	10193.4
31+50.00		124.3	1.9							
	50.00	<u> </u>		115.1	1.8	10454.9	1.0	148.6	1.25	10306.3

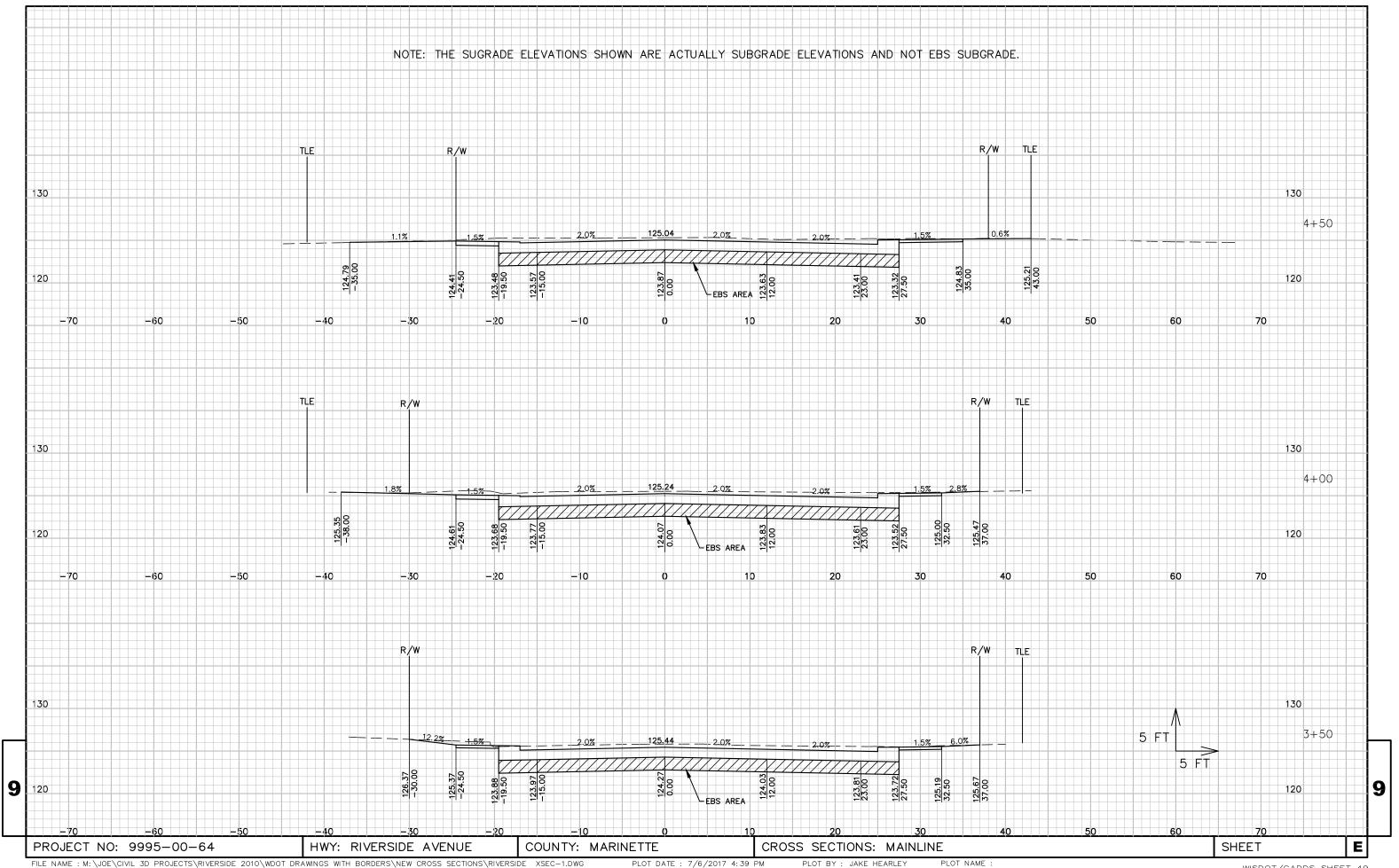
				VOL	.UME		VOL	UME		
		END-	AREA	INCRE	MENTAL		CUMUL	ATIVE		MASS
STATION	LENGTH	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	HAUL
		SQ	FT	CU	YD	CU	YD	CU	YD	CU YD
32+00.00		91.7	0.4							
00150 00	50.00		4 =	158.7	1.8	10613.	6 1.0	150.9	1.25	10462.7
32+50.00	50.00	79.7	1.5	141.9	3.1	10755	5 1 O	154.8	1 25	10600.8
33+00.00	50.00	73.6	1.8	141.9	3.1	10755.	5 1.0	154.6	1.25	10000.8
00.00100	50.00	' ' ' '		146.1	2.2	10901.	6 1.0	157.5	1.25	10744.1
33+50.00		84.2	0.6							
	50.00			156.6	0.6	11058.	2 1.0	158.3	1.25	10900.0
34+00.00		84.9	0.1							
	50.00			158.8	0.2	11217.	0 1.0	158.5	1.25	11058.5
34+50.00		86.6	0.1							
25.00.00	50.00	110 6	0 0	182.6	0.1	11399.	6 1.0	158.6	1.25	11241.0
35+00.00	50.00	110.6	0.0	157.2	2.2	11556	Q 1 0	161 /	1 25	11395.4
35+50.00	30.00	59.2	2.4	137.2	2.2	11330.	0 1.0	101.4	1.25	11095.4
	50.00	***-		113.4	3.7	11670.	2 1.0	166.0	1.25	11504.2
36+00.00		63.3	1.6							
	40.00			95.5	1.6	11765.	7 1.0	168.0	1.25	11597.7
36+40.00		65.6	0.6							
	10.00			24	0.4	11789.	7 1.0	168.5	1.25	11621.2
36+50.00	50.00	64.2	1.7	101 0		11010		474 5	4 05	44700 4
37+00.00	50.00	66.7	0.9	121.2	2.4	11910.	9 1.0	1/1.5	1.25	11739.4
37+00.00	50.00	66.7	0.9	121.9	1.8	12032	8 1 0	173 8	1 25	11859.1
37+50.00	00.00	64.9	1.0	12110	110	120021		17010		1100011
	10.00			24.3	0.3	12057.	1 1.0	174.1	1.25	11883.0
37+60.00		66.3	0.6							
	40.00			100.3	0.9	12157.	4 1.0	175.3	1.25	11982.2
38+00.00		69.1	0.6							
00.50.00	50.00			134	1.9	12291.	4 1.0	177.6	1.25	12113.8
38+50.00	33.00	75.6	1.5	89.7	1.2	12201	1 1 0	170 1	1 25	12202.0
38+83.00	33.00	71.2	0.5	69.7	1.2	12361.	1 1.0	179.1	1.23	12202.0
	17.00	' ' ' -	0.0	45.8	0.3	12426.	9 1.0	179.5	1.25	12247.4
39+00.00		74.3	0.4							
	50.00			134	3.2	12560.	9 1.0	183.5	1.25	12377.4
39+50.00		70.4	3.1							
	50.00			133.6	2.9	12694.	5 1.0	187.1	1.25	12507.4
40+00.00		73.9	0.0							

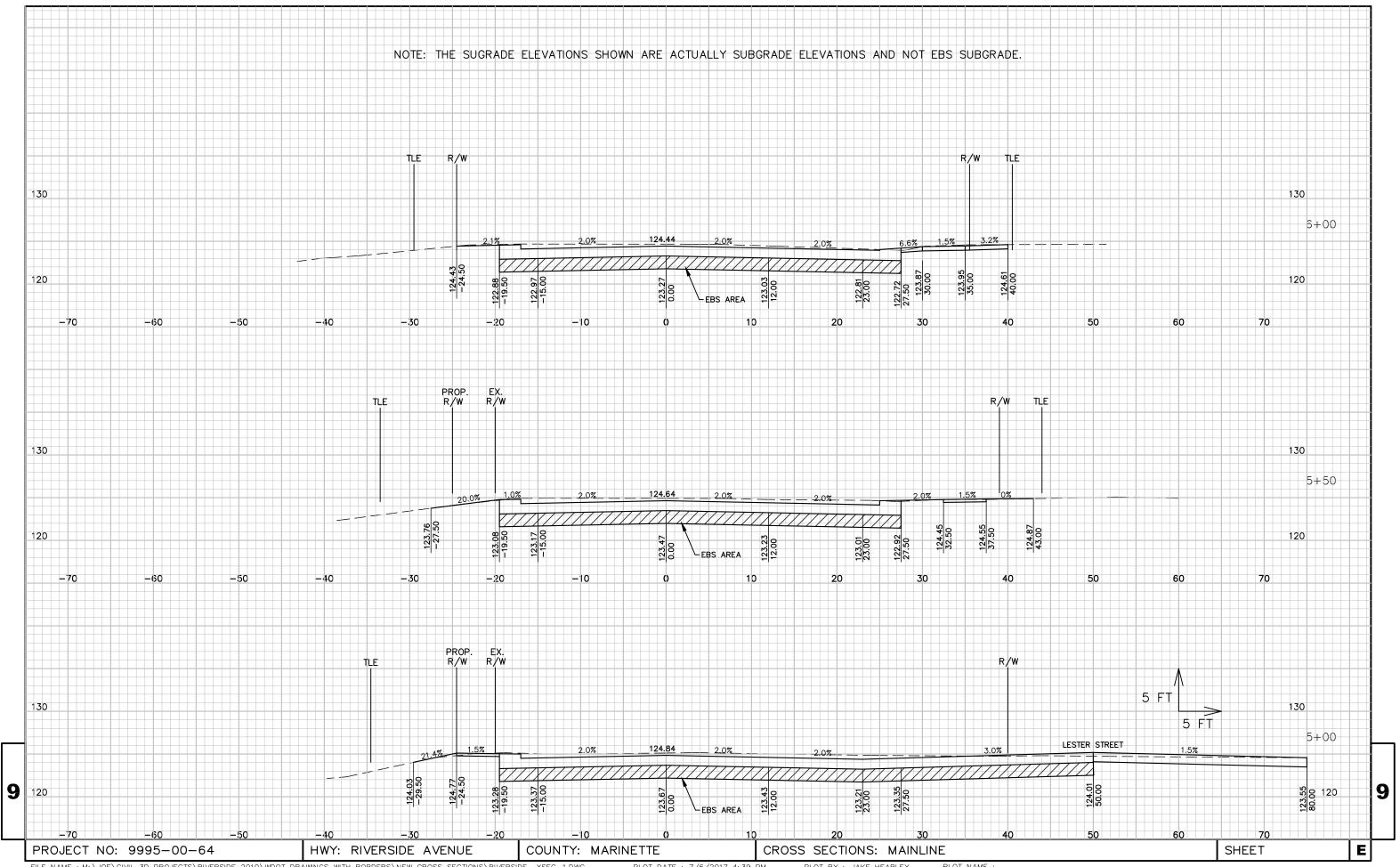
PROJECT NO: 9995-00-64 HWY: RIVERSIDE AVENUE COUNTY: MARINETTE EARTHWORK DATA SHEET NO: • E

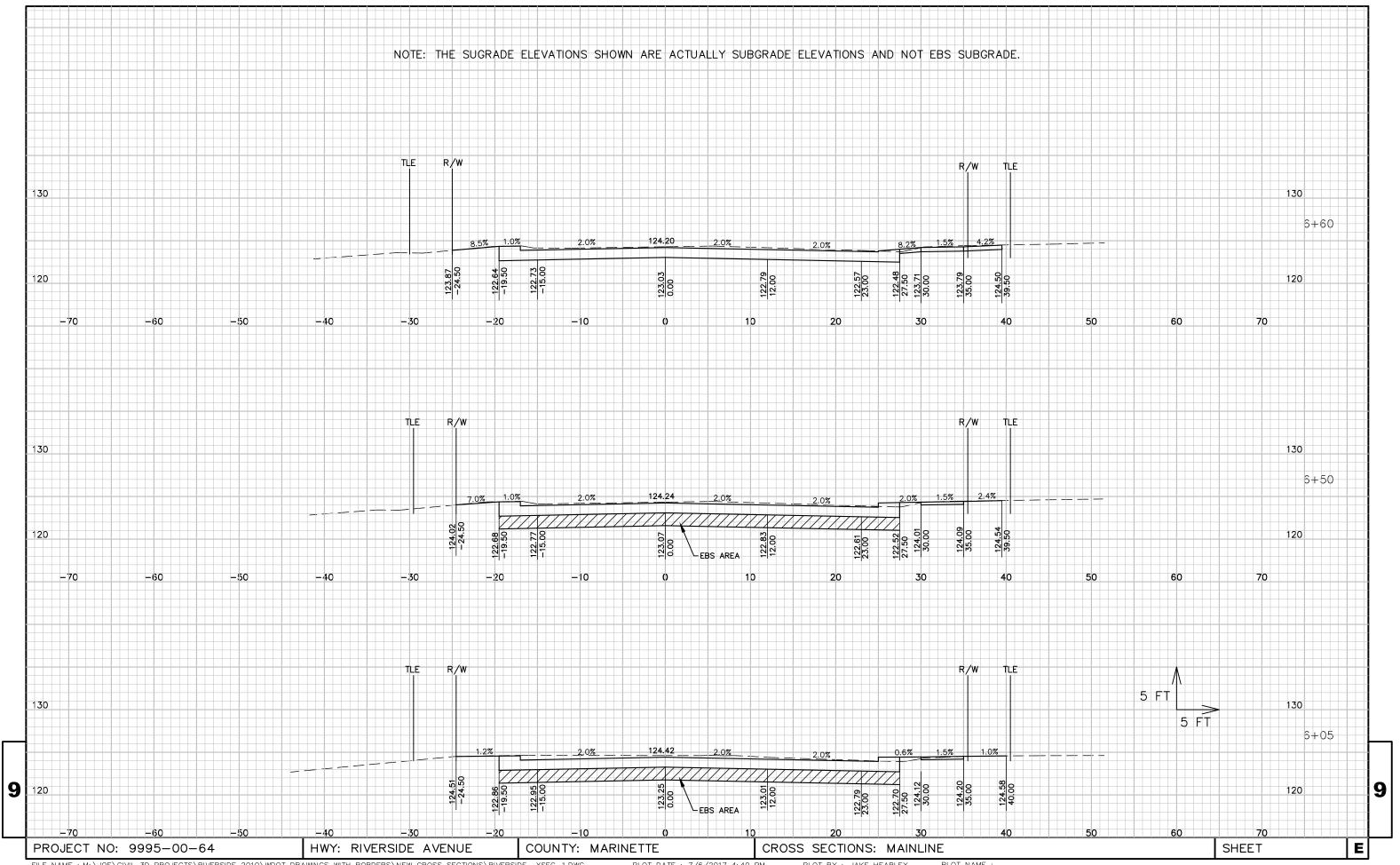
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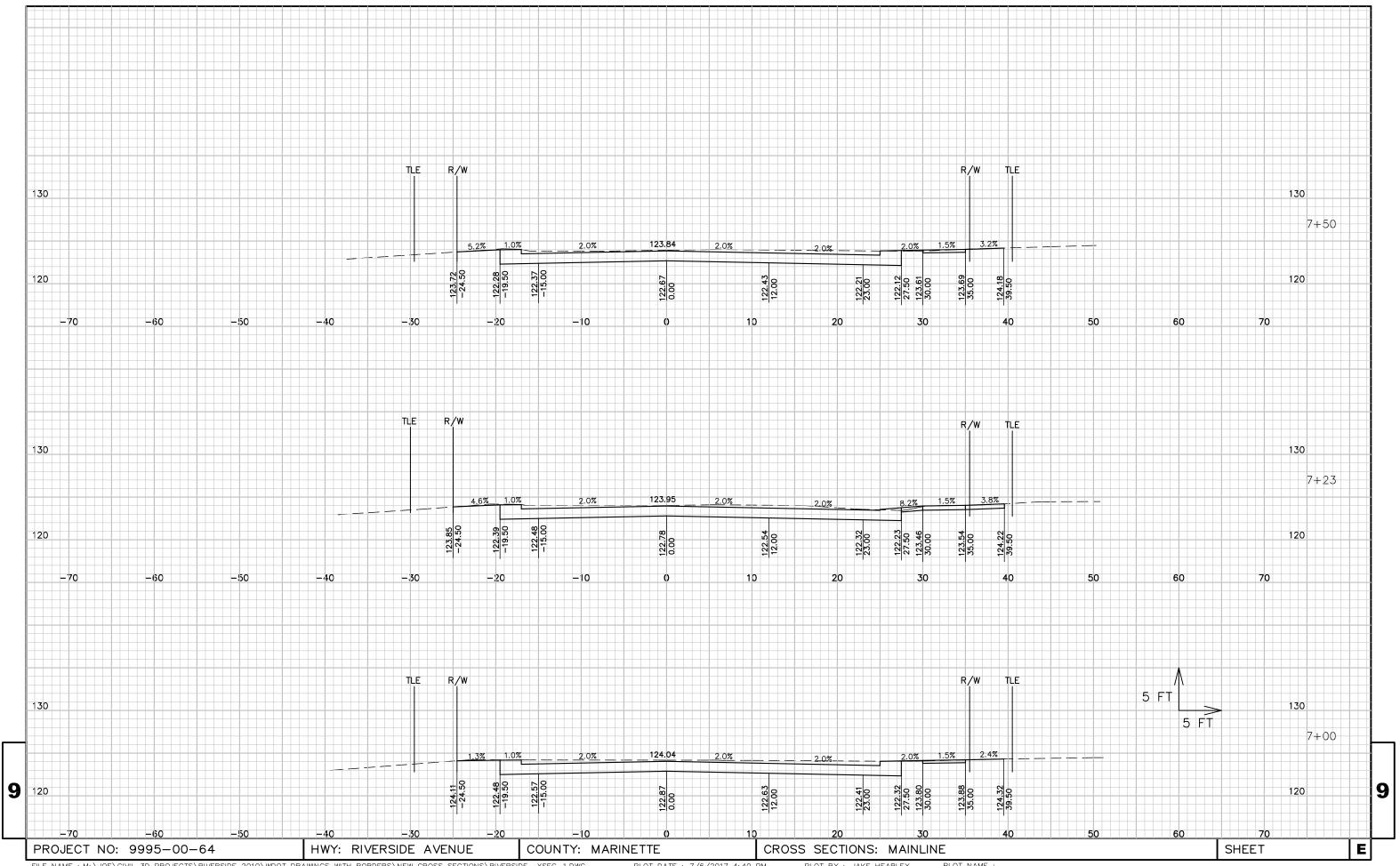


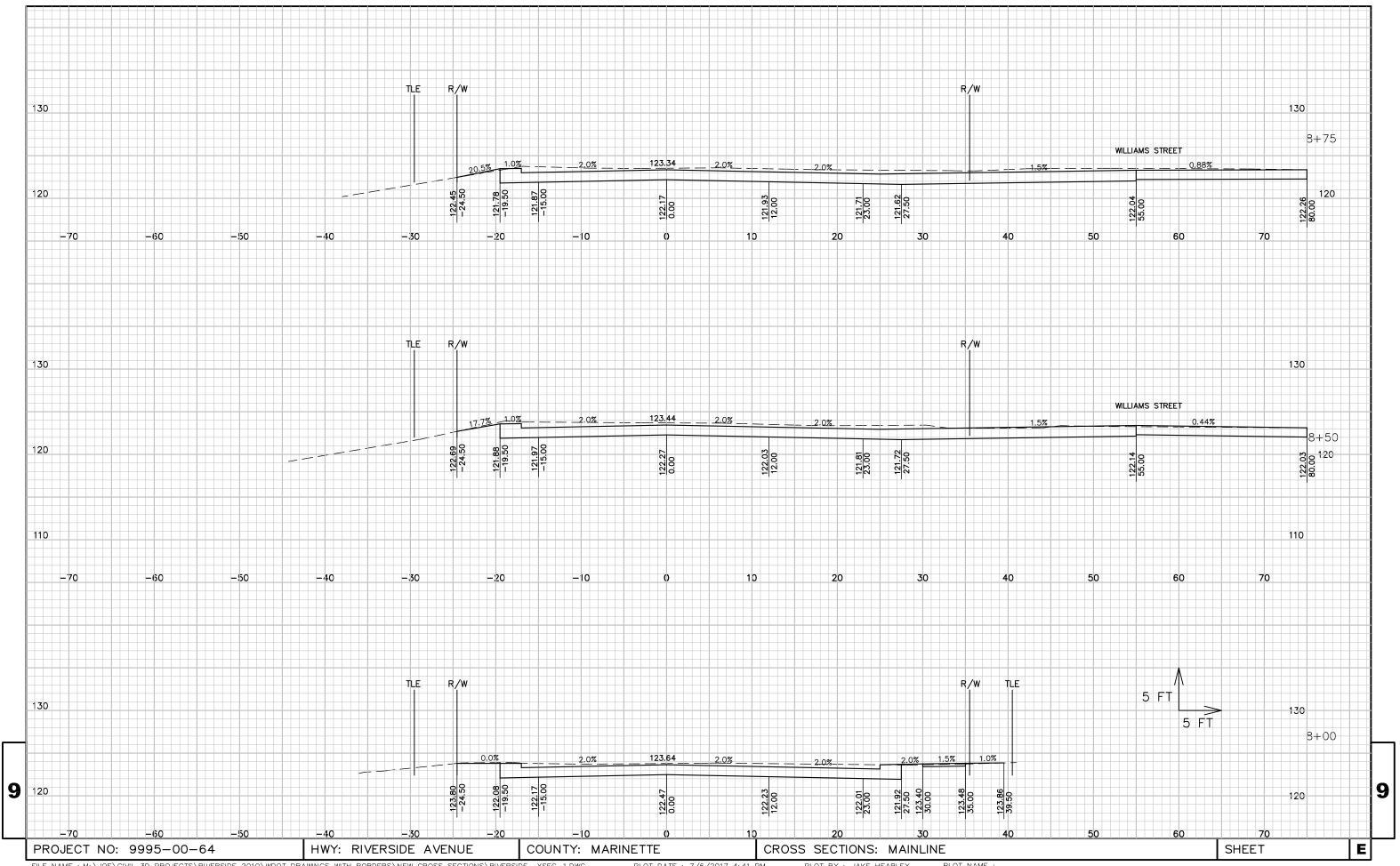


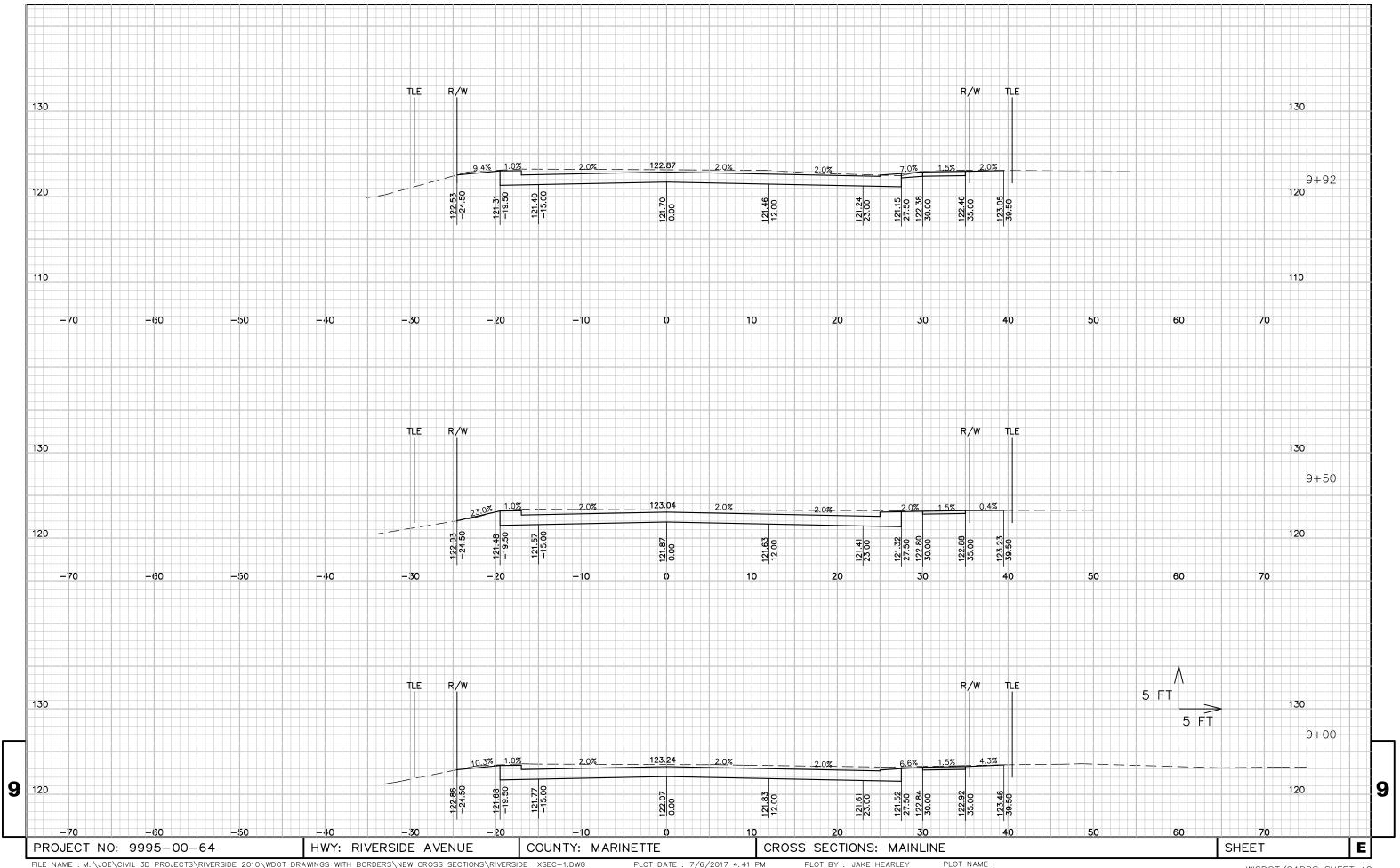


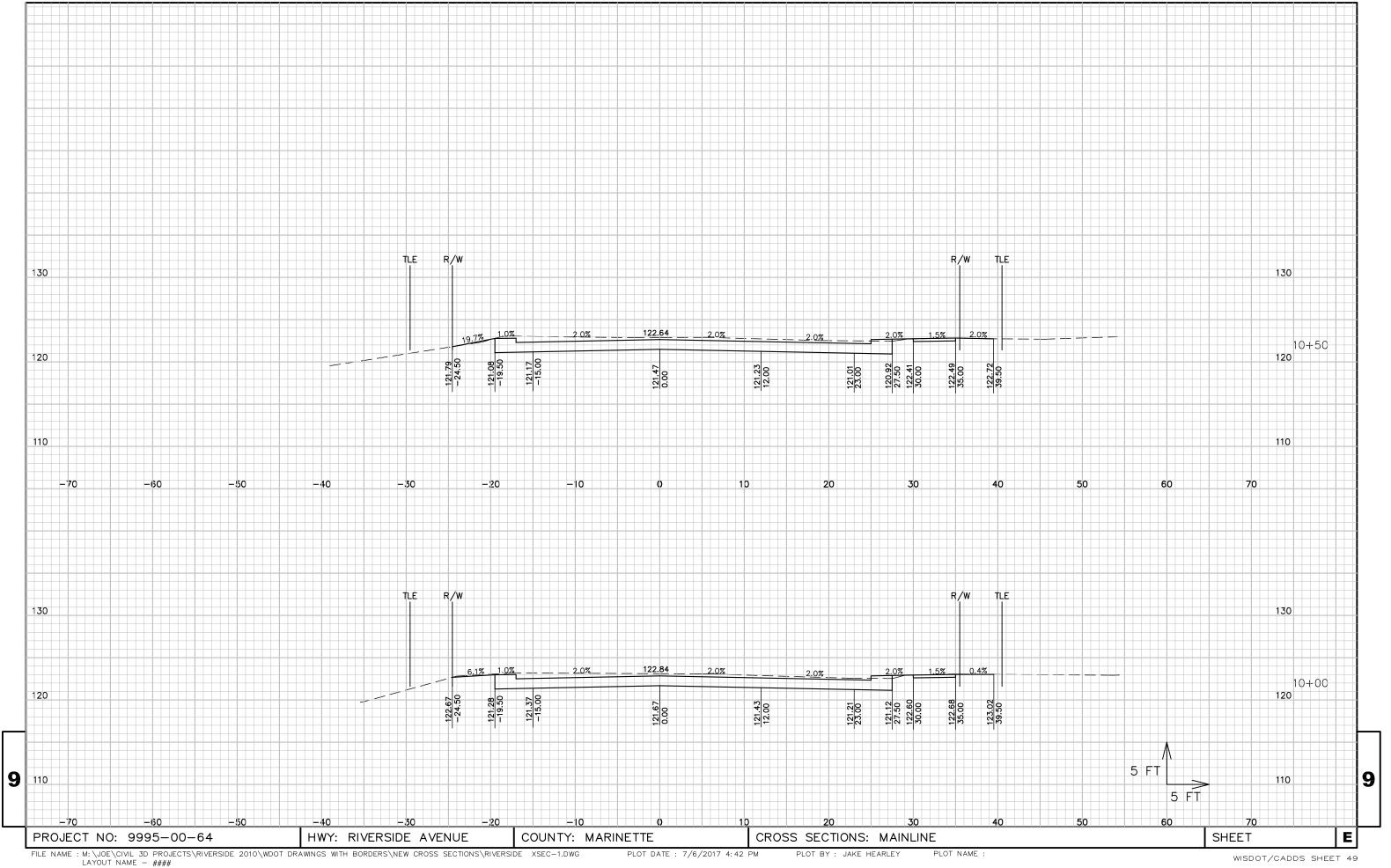


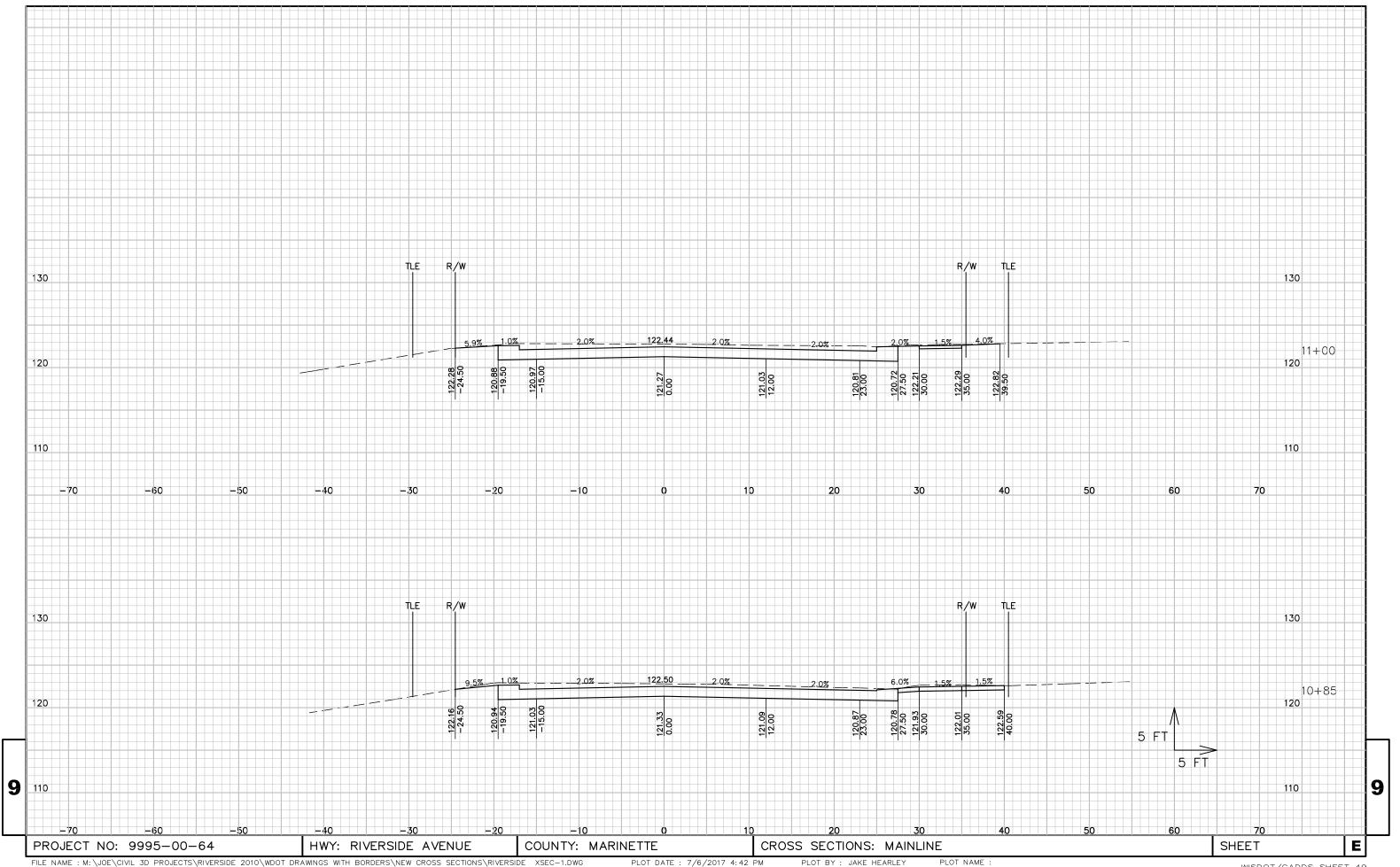


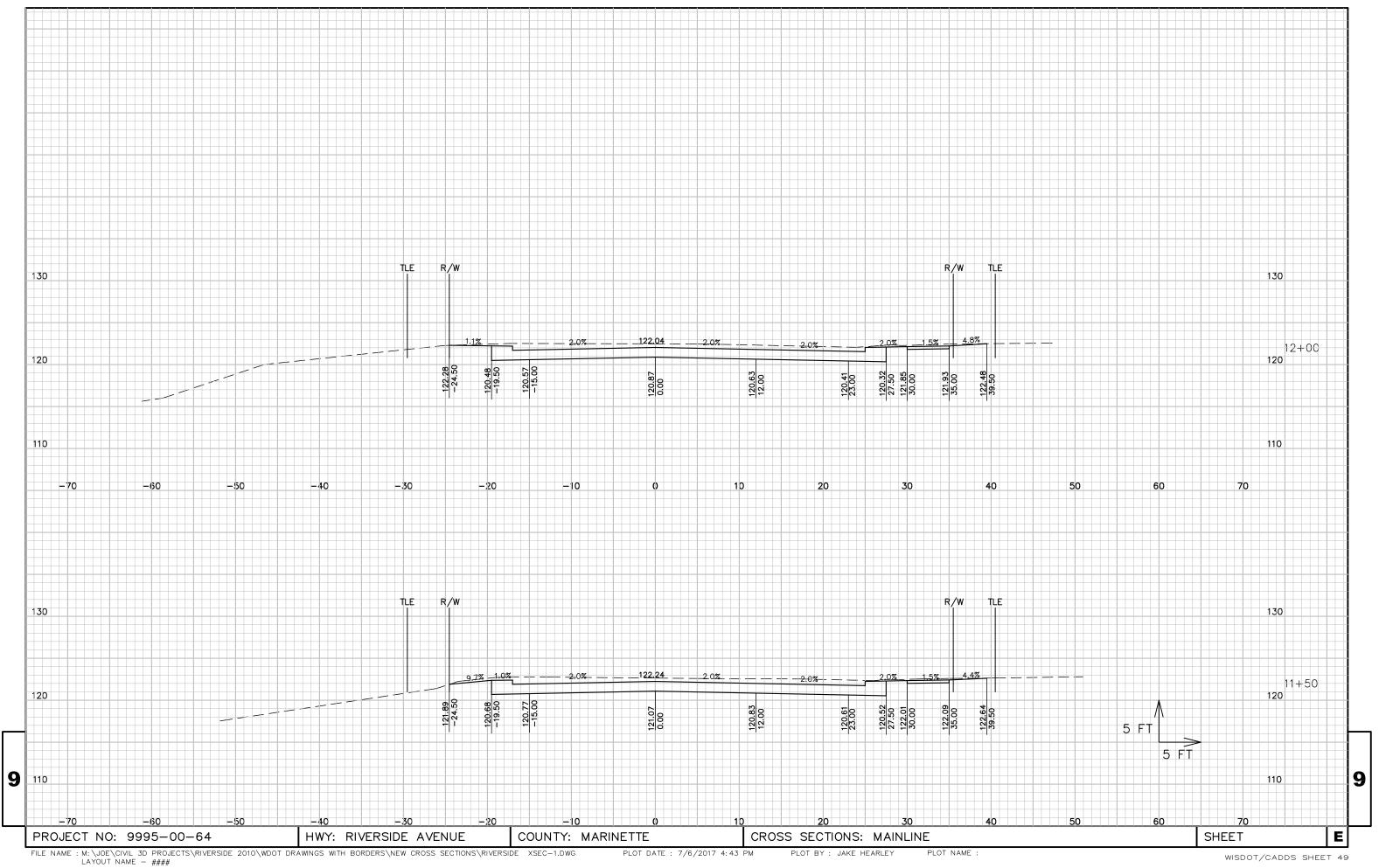


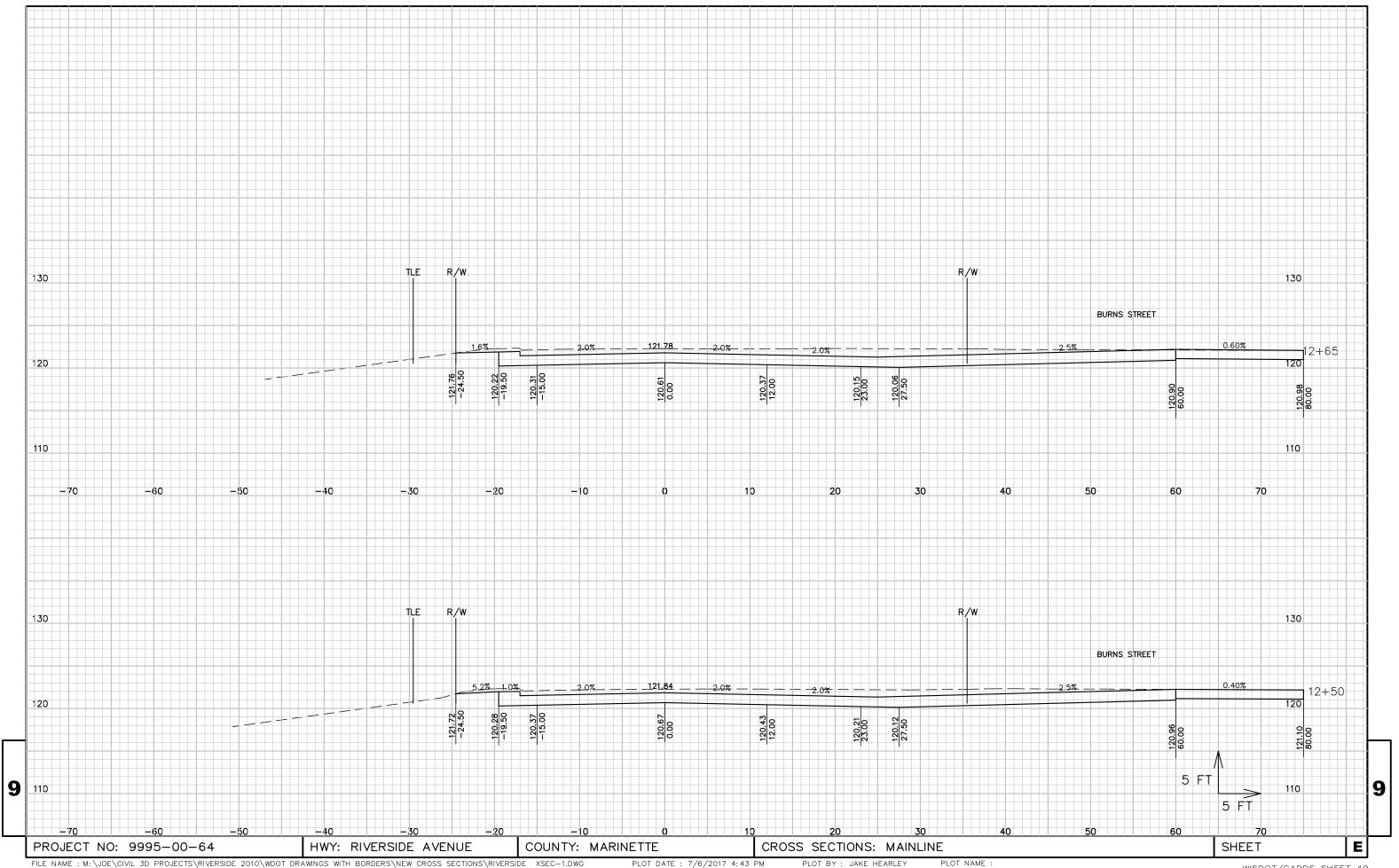


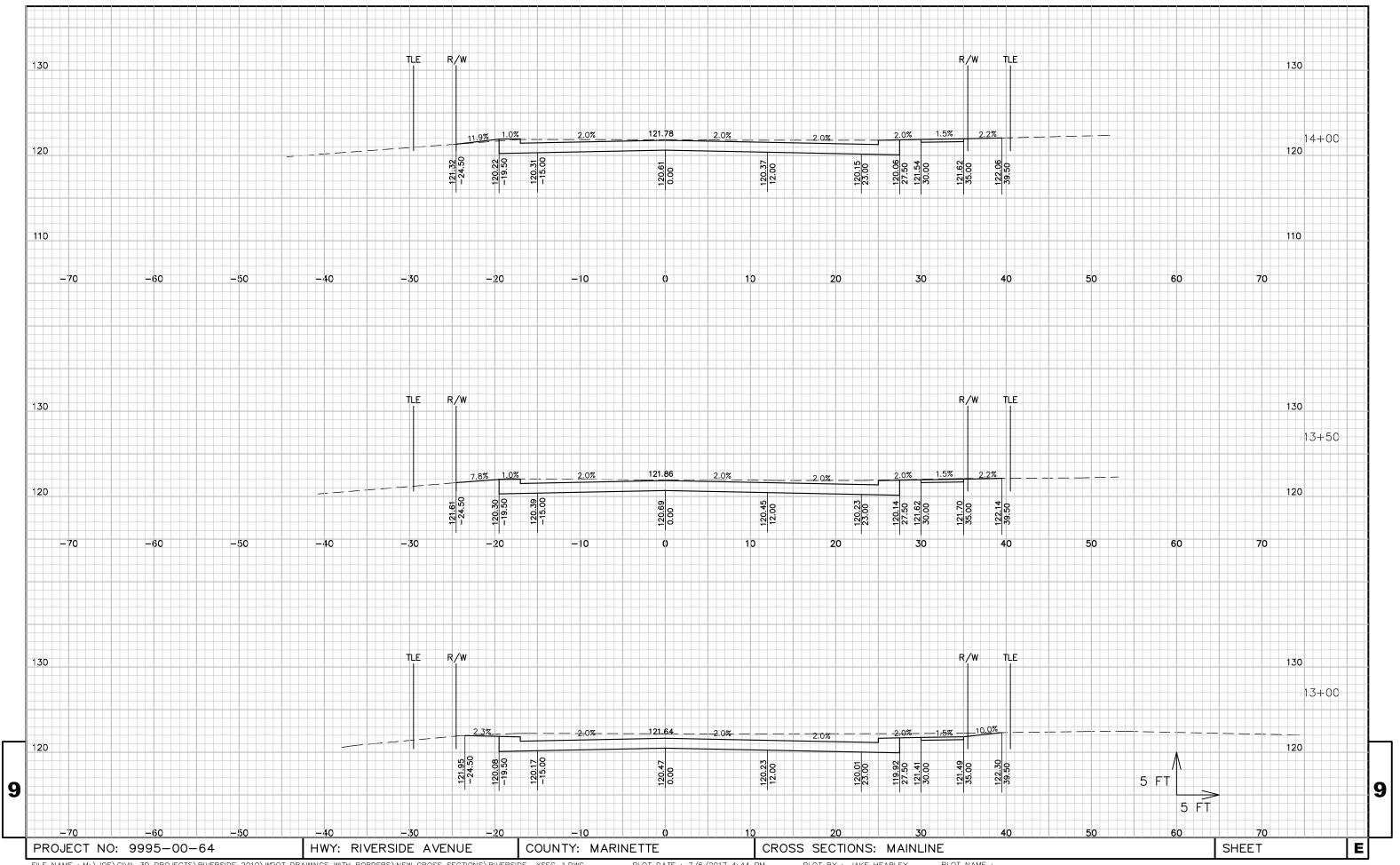


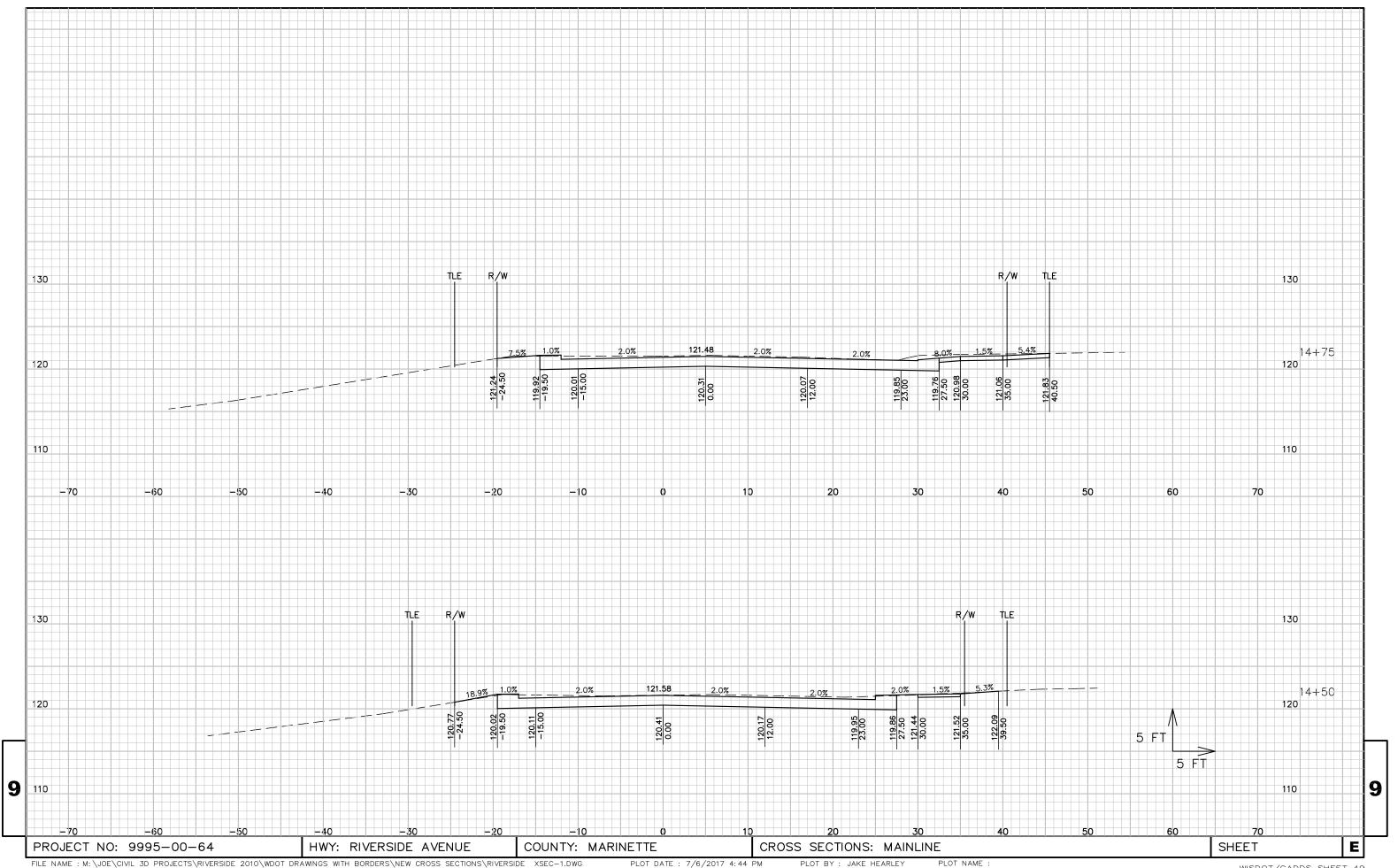


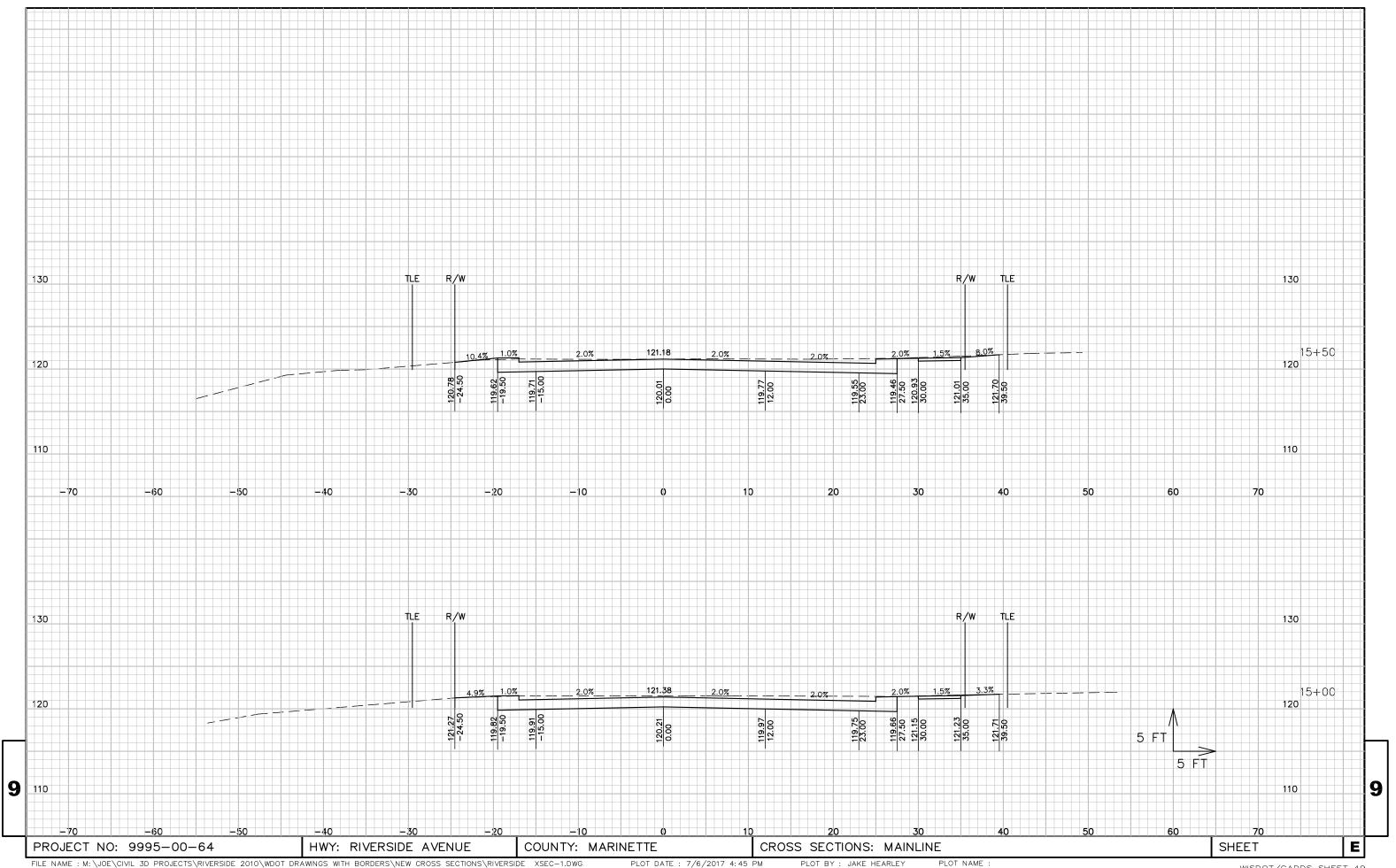


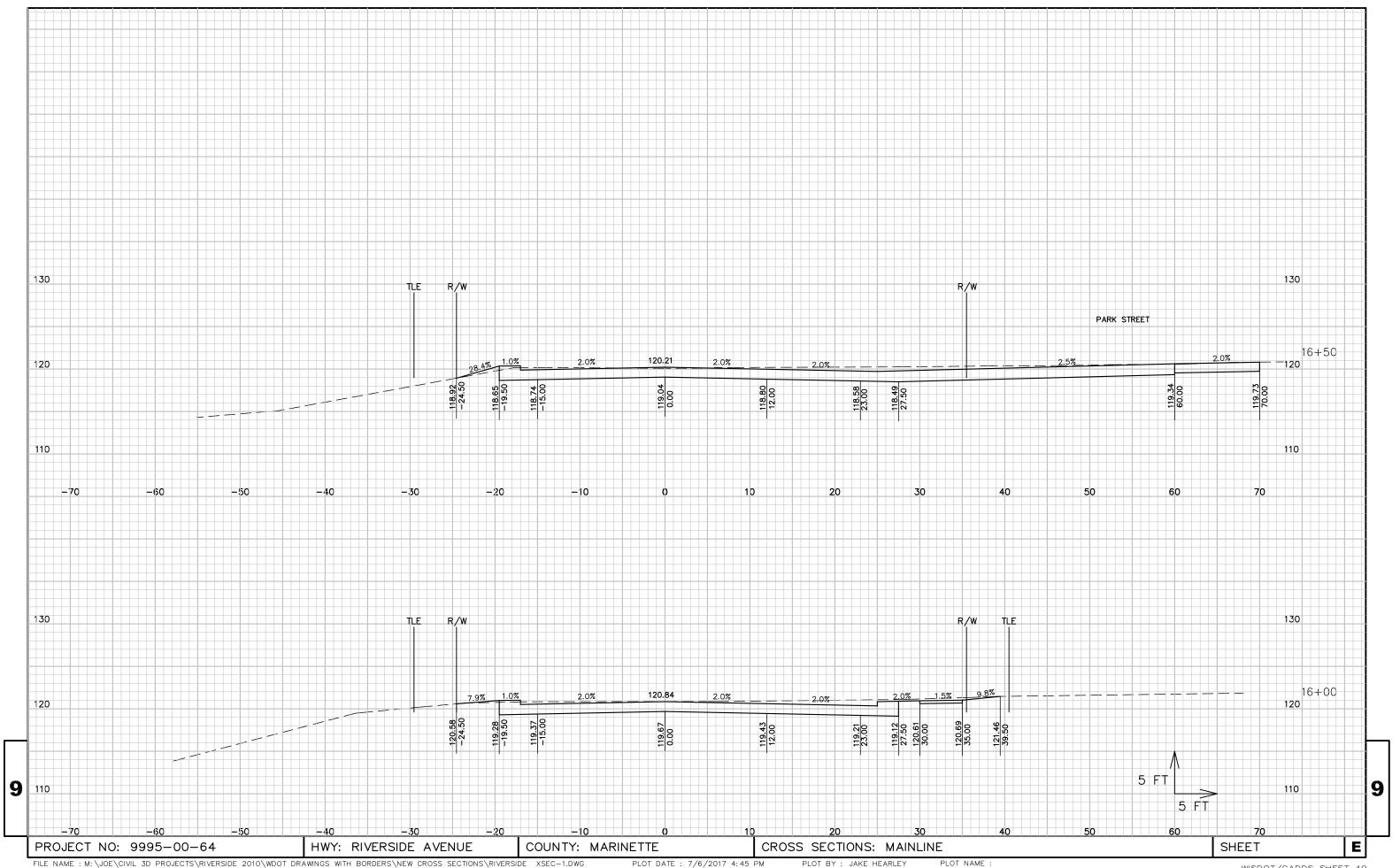


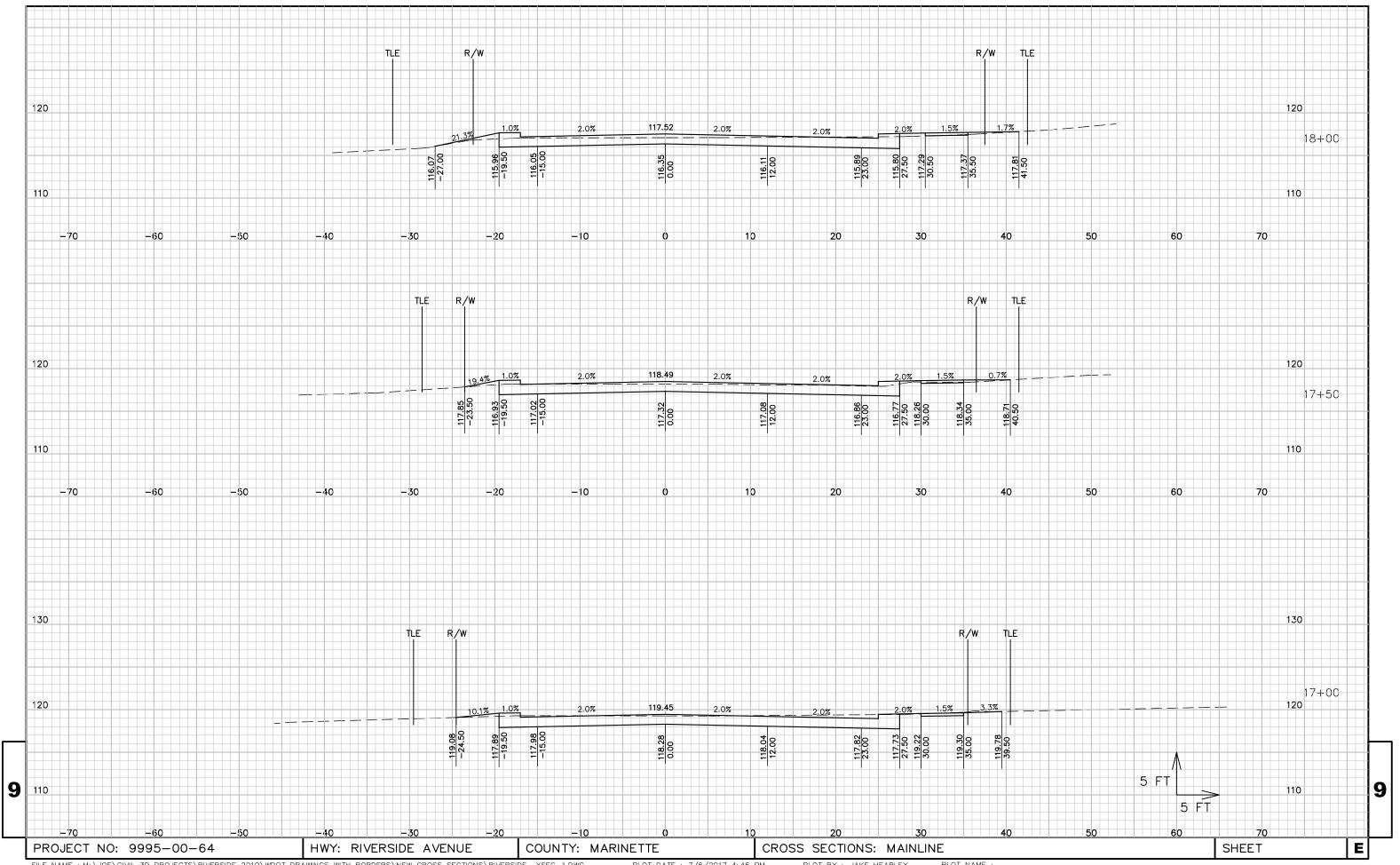


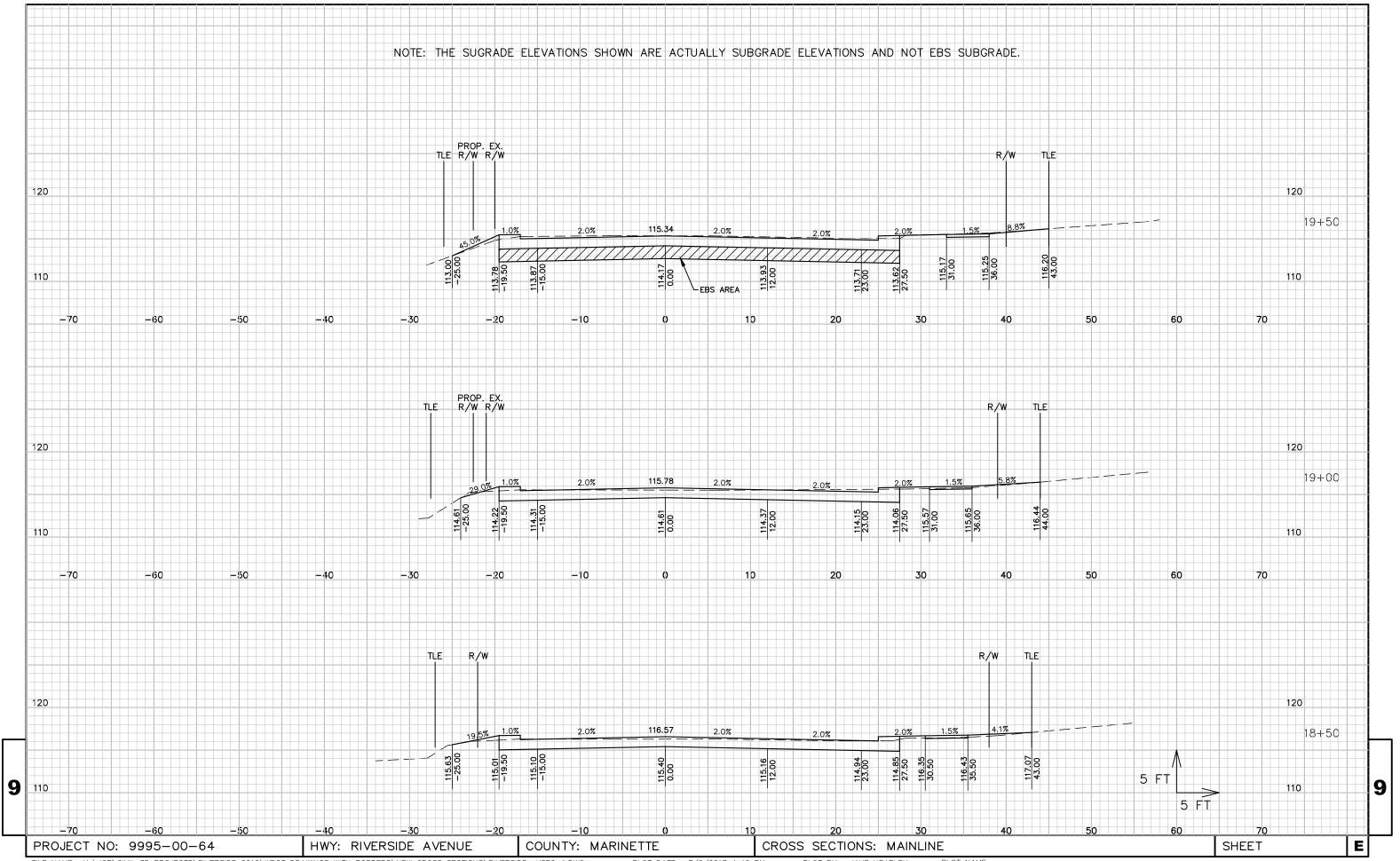


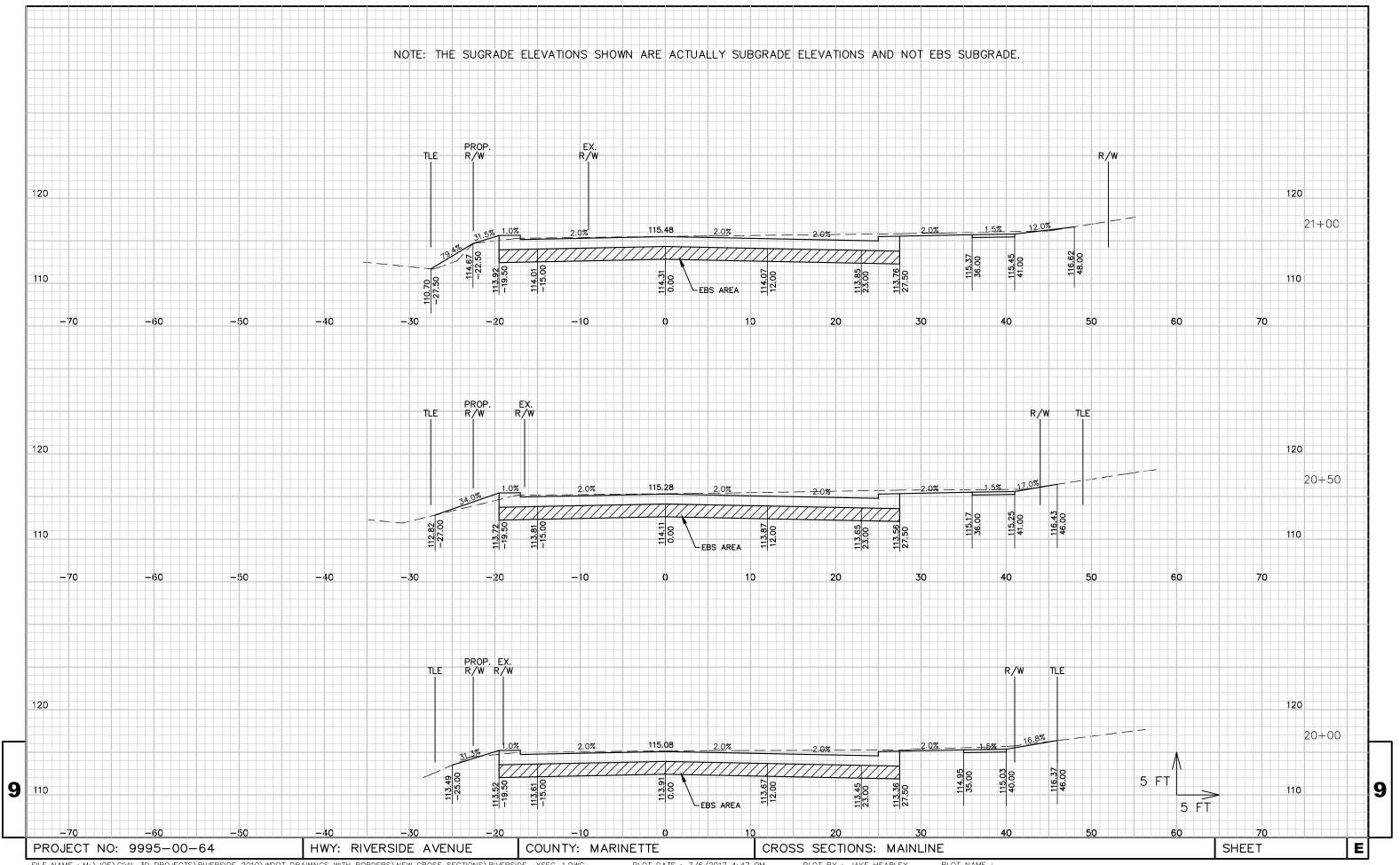


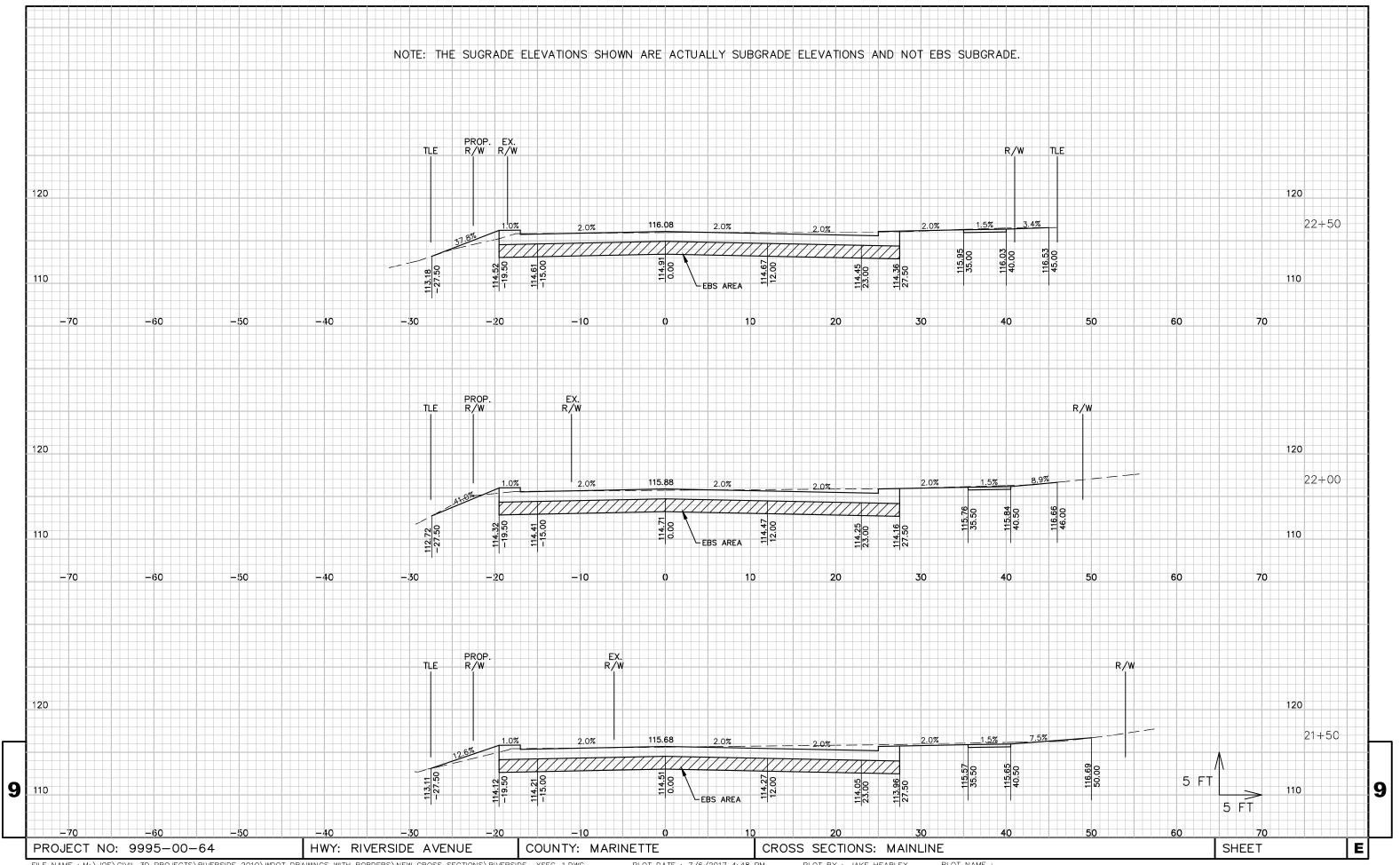


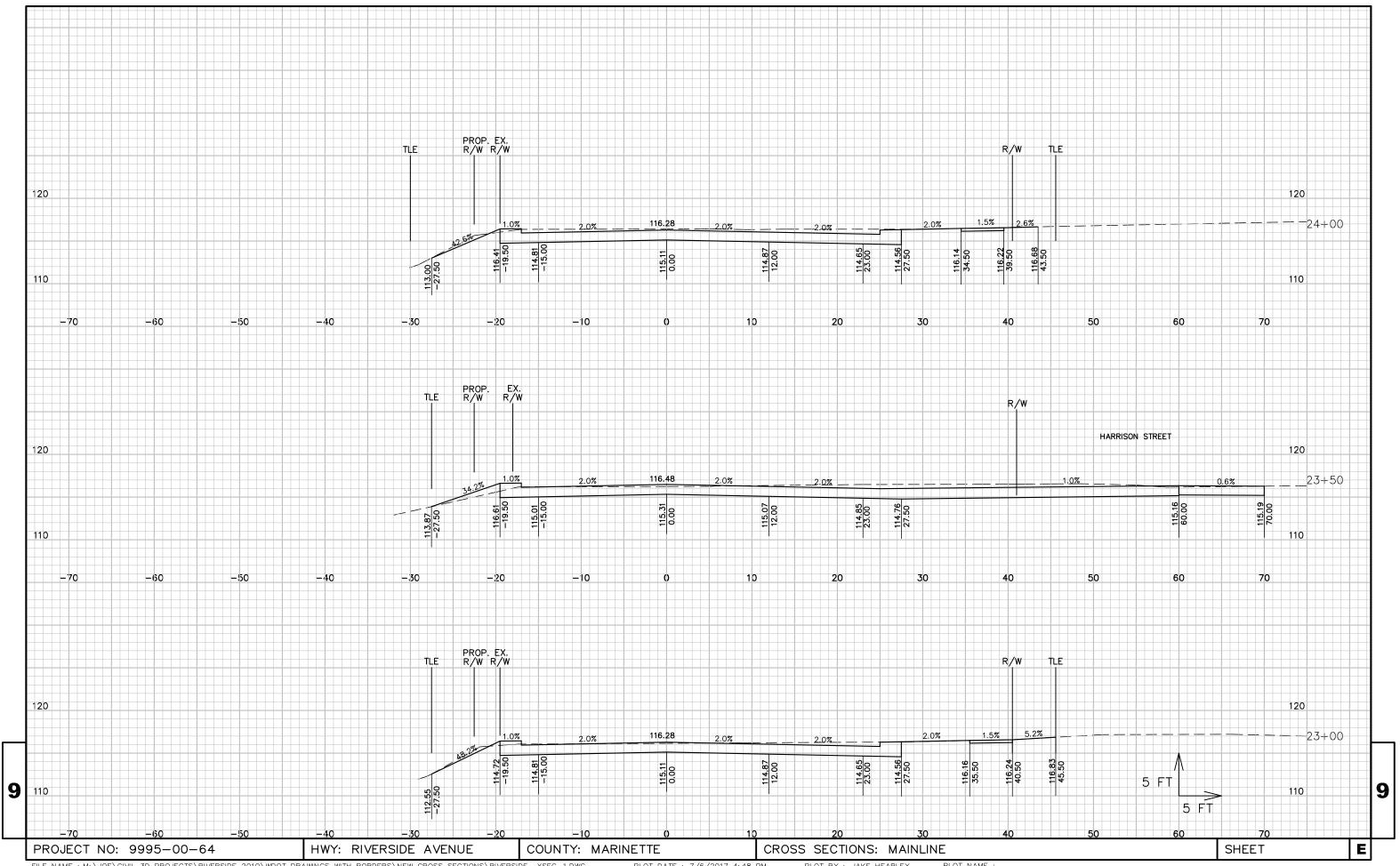


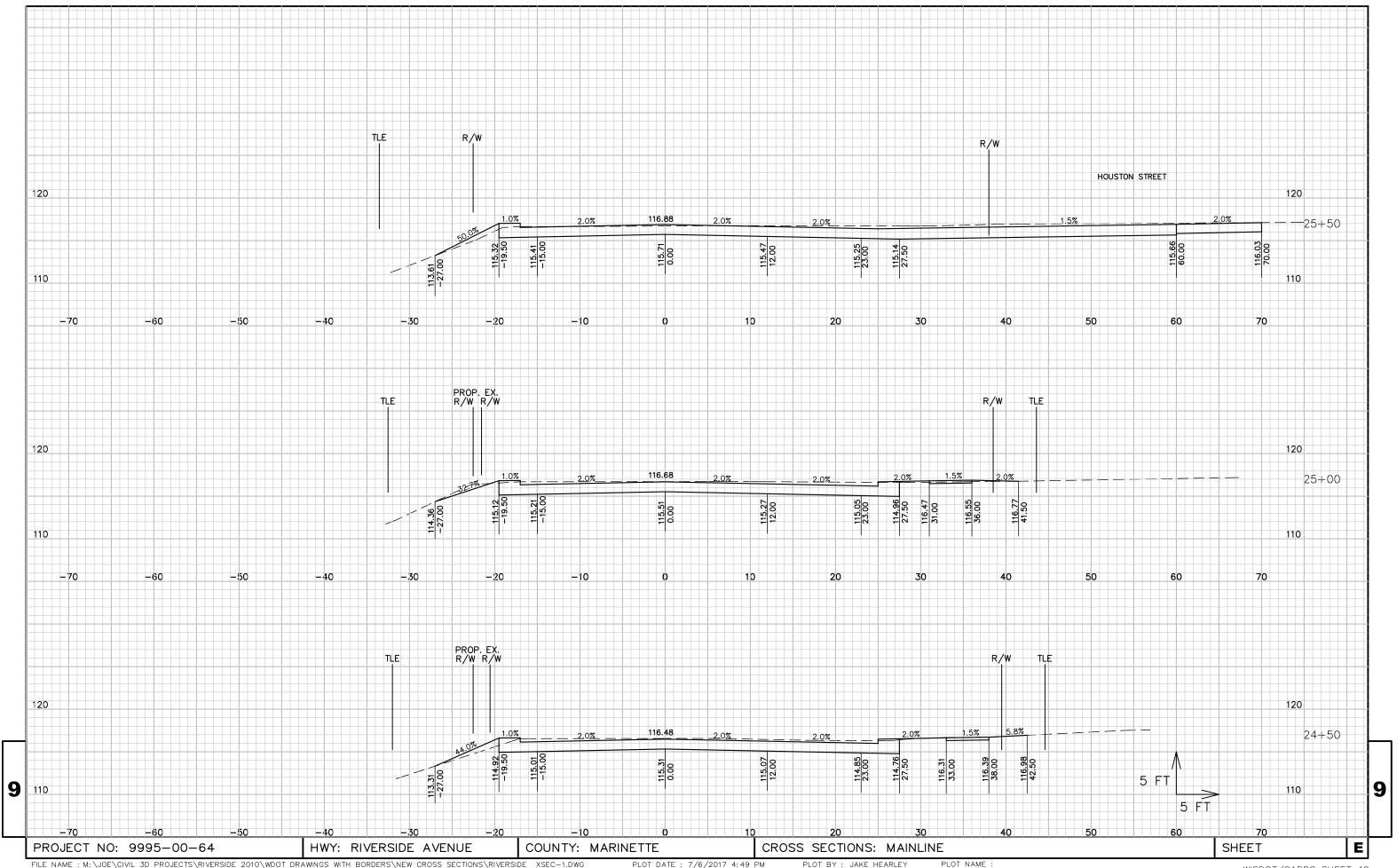


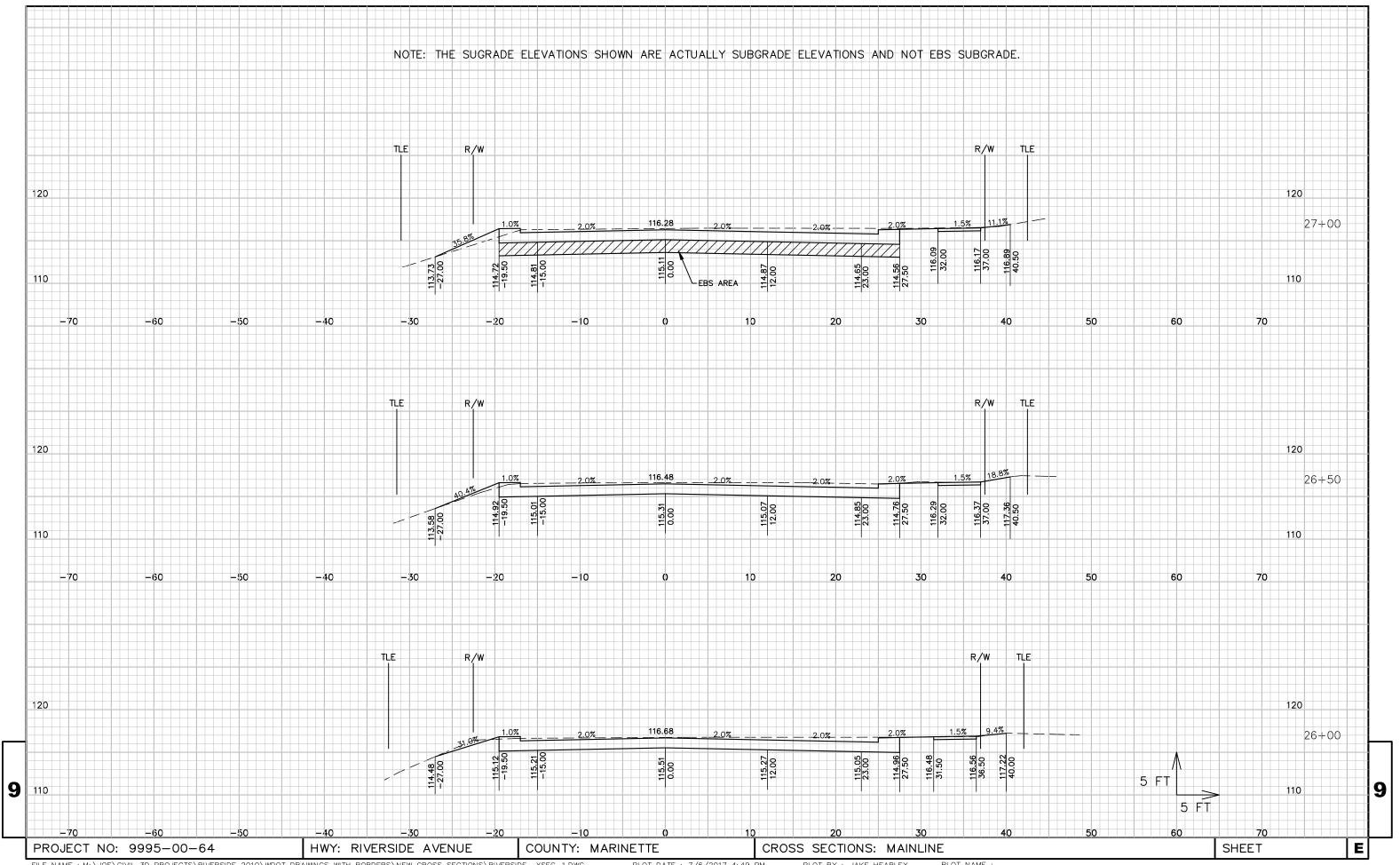


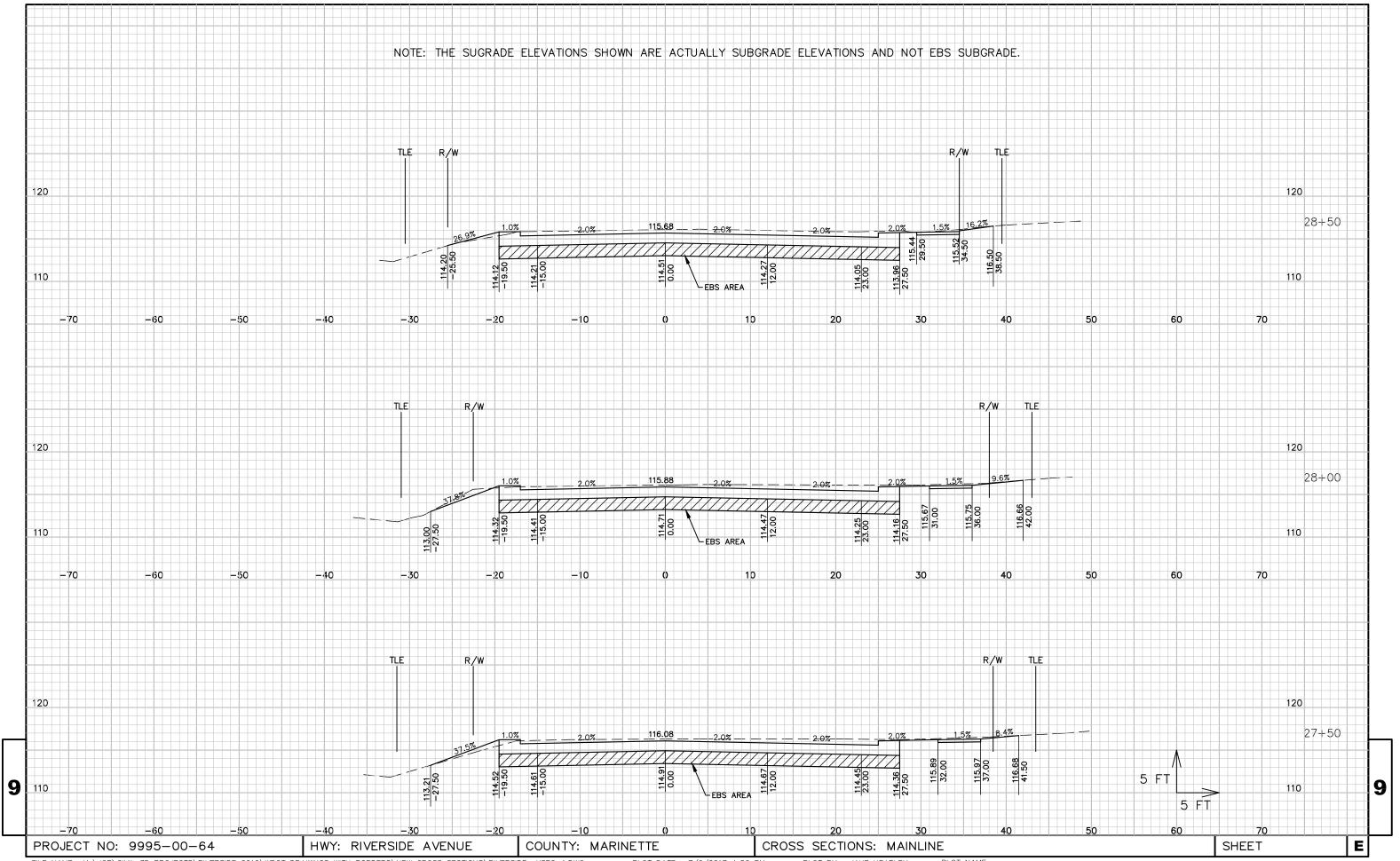


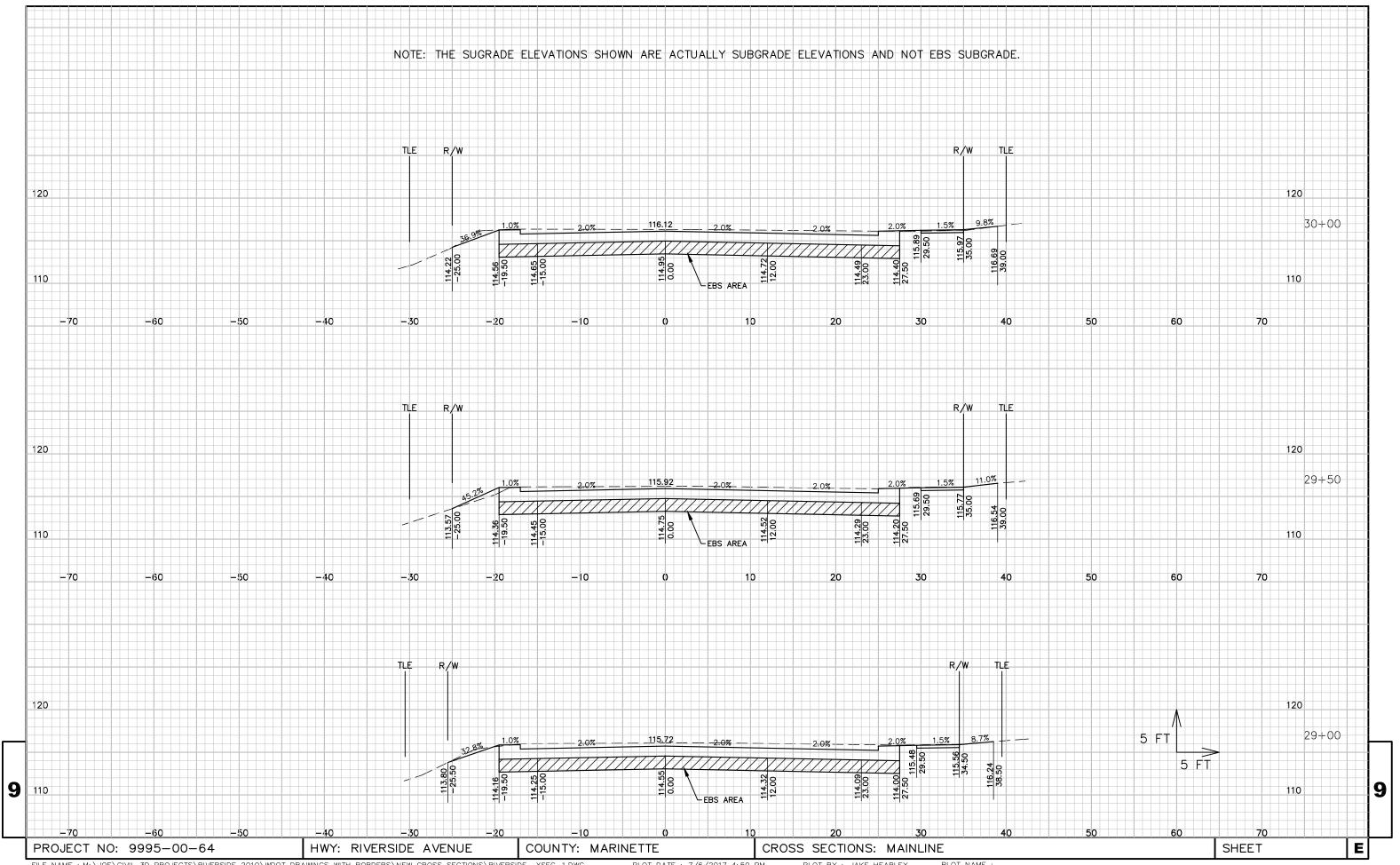


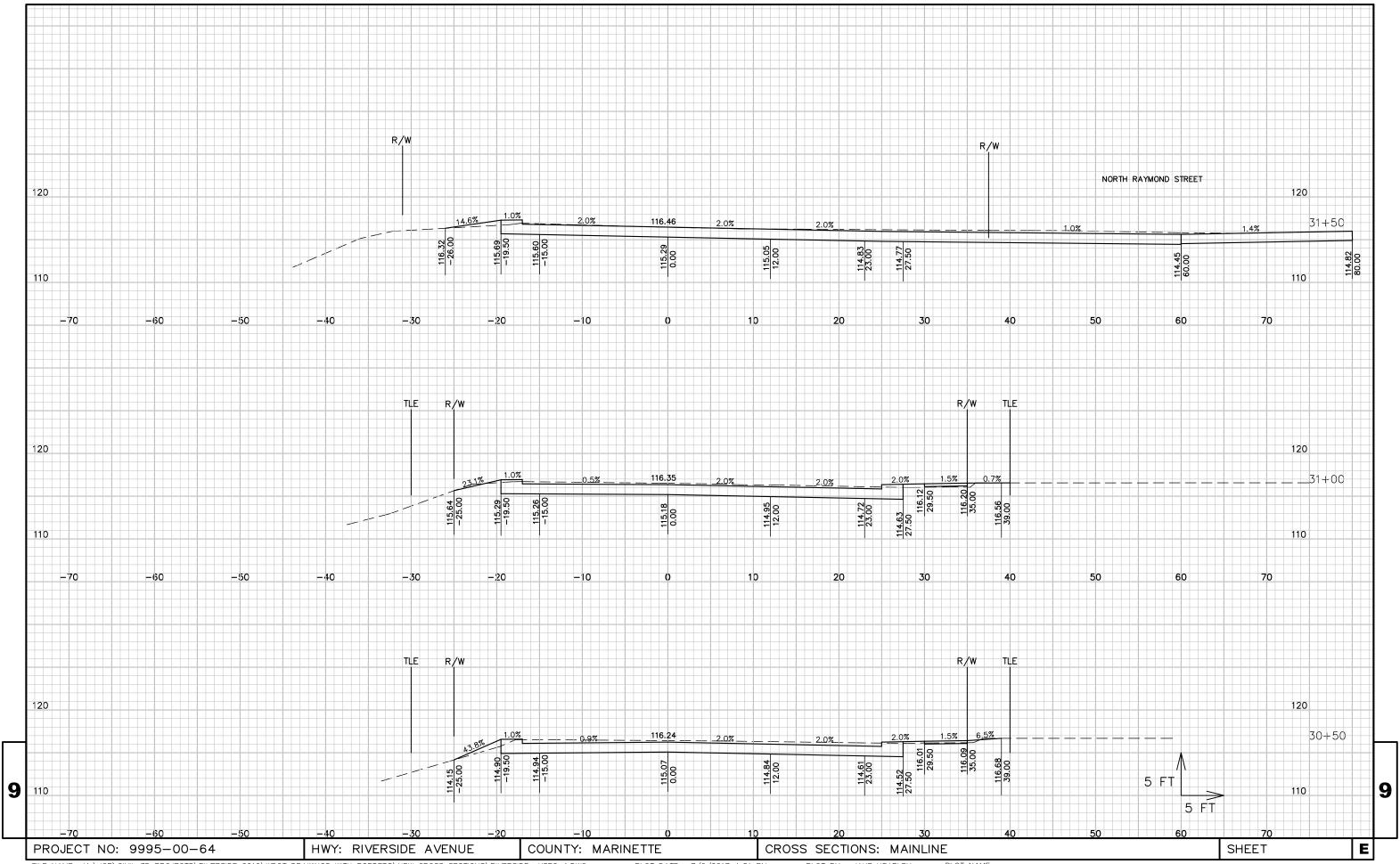


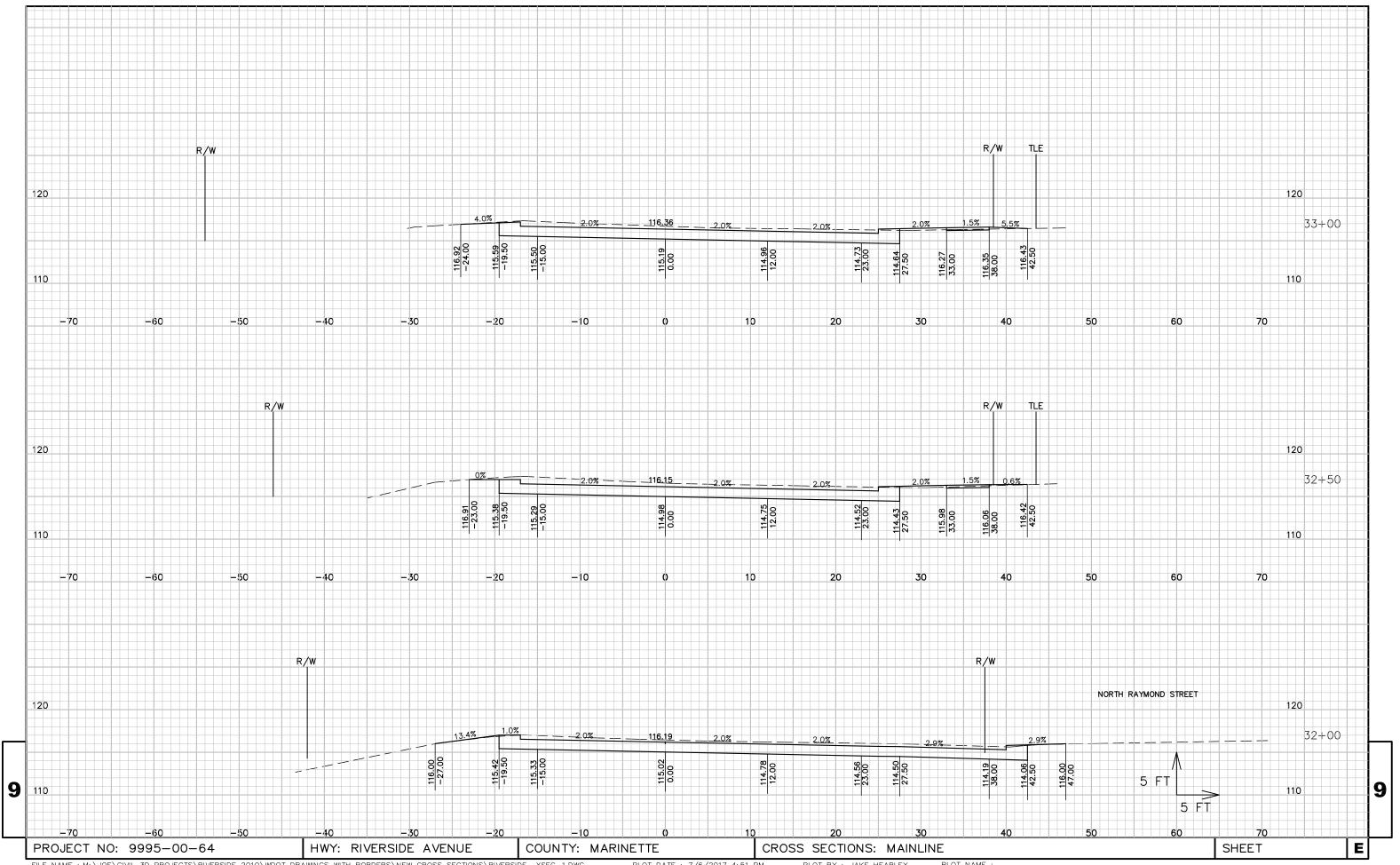


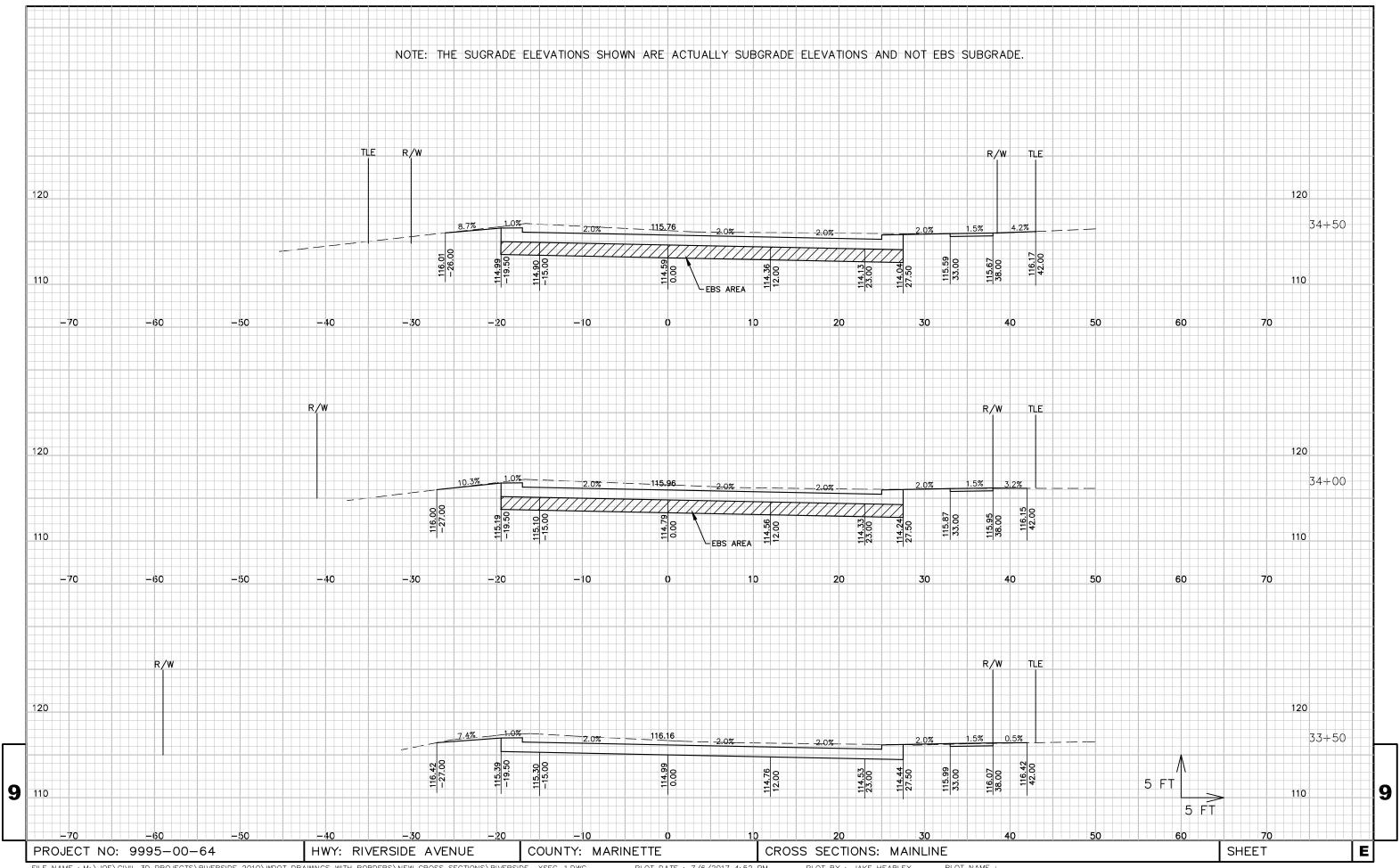


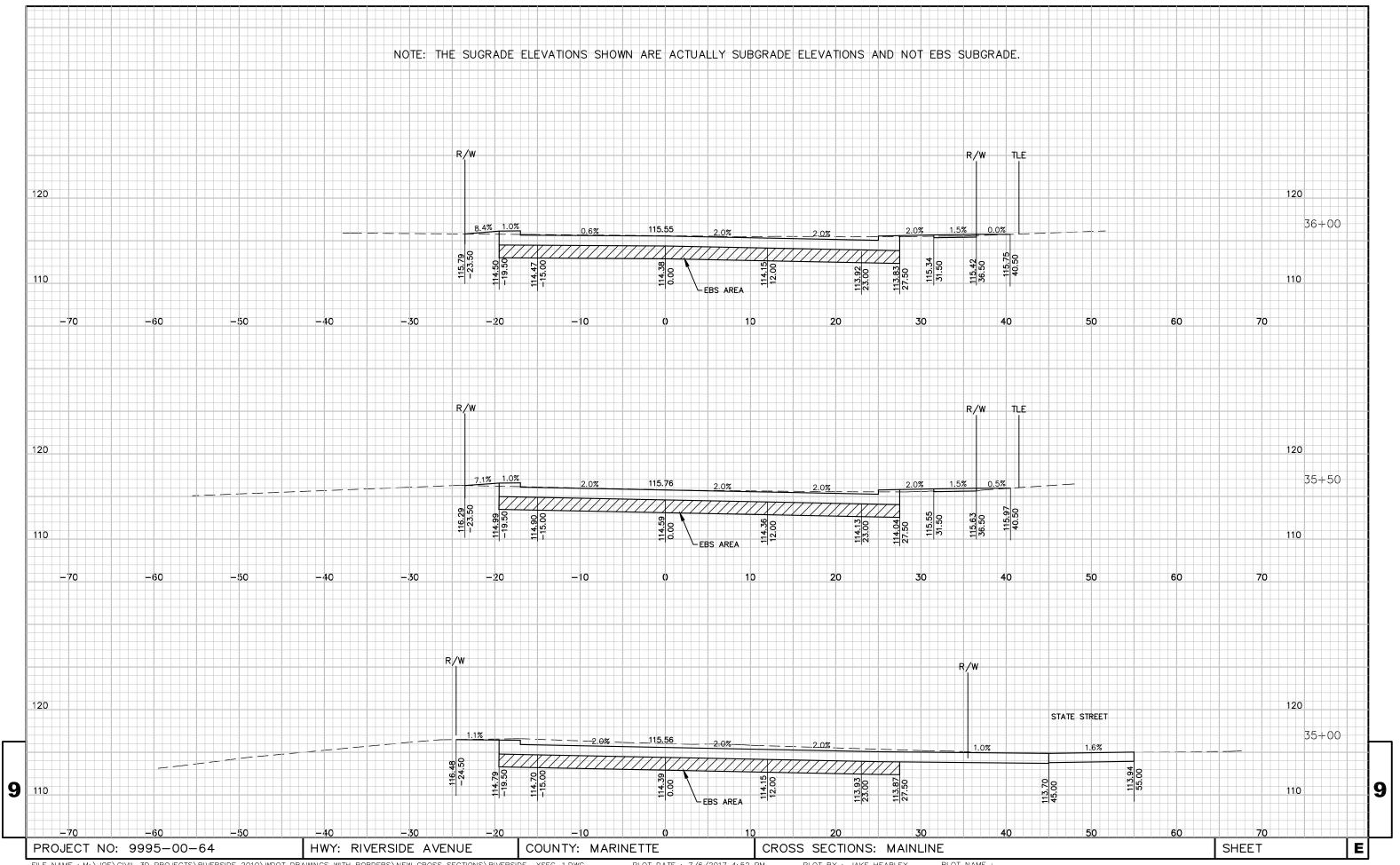


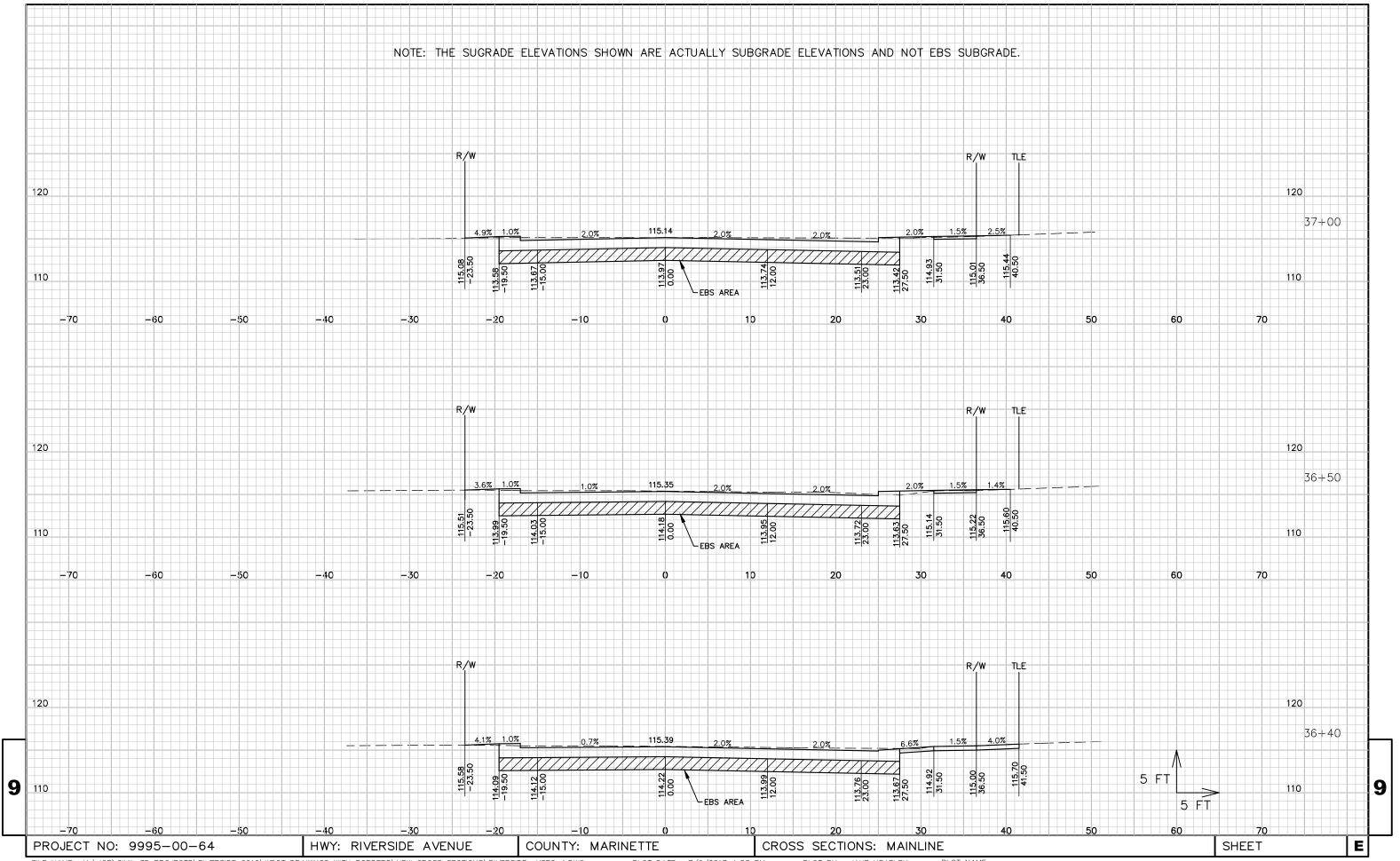


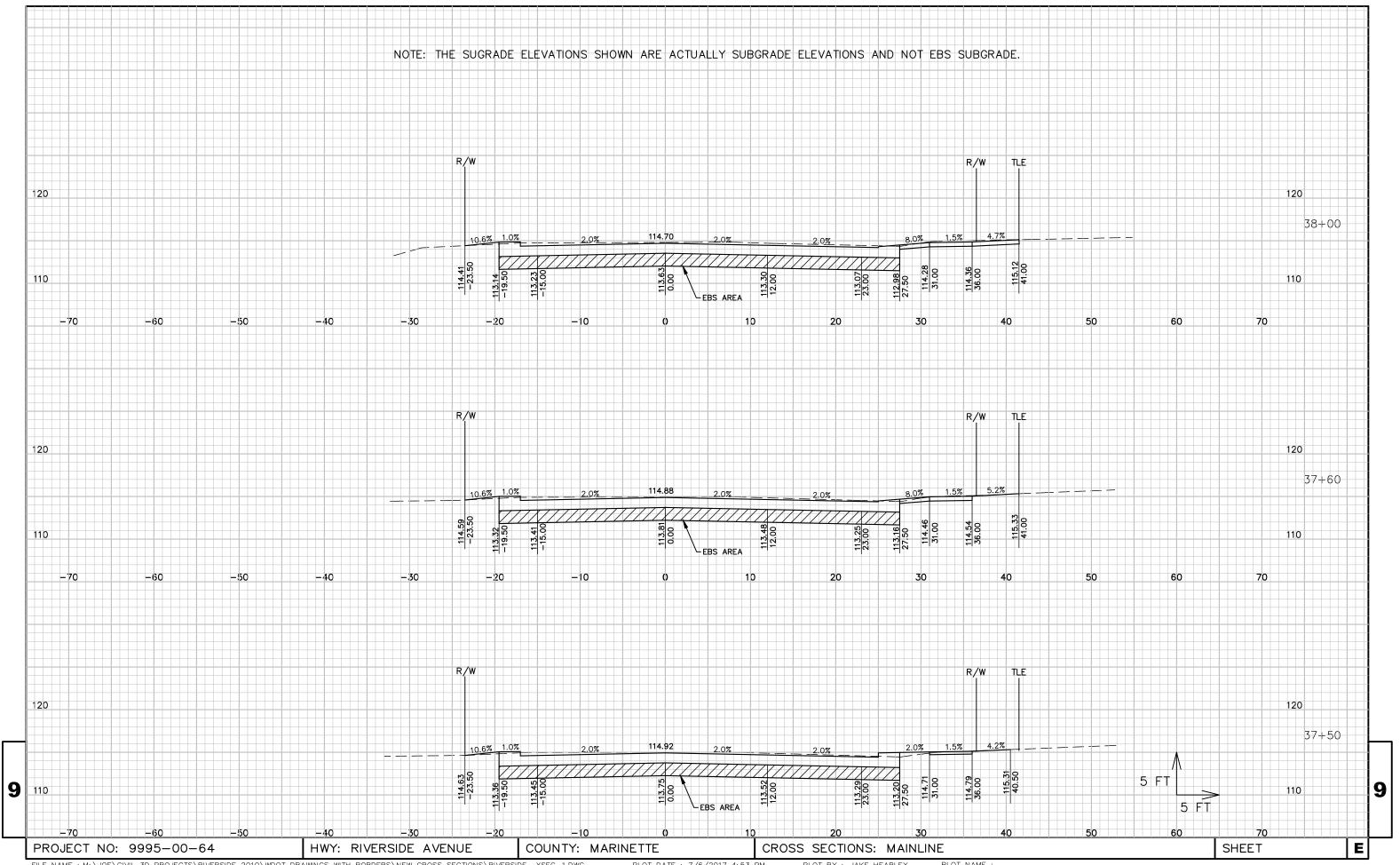


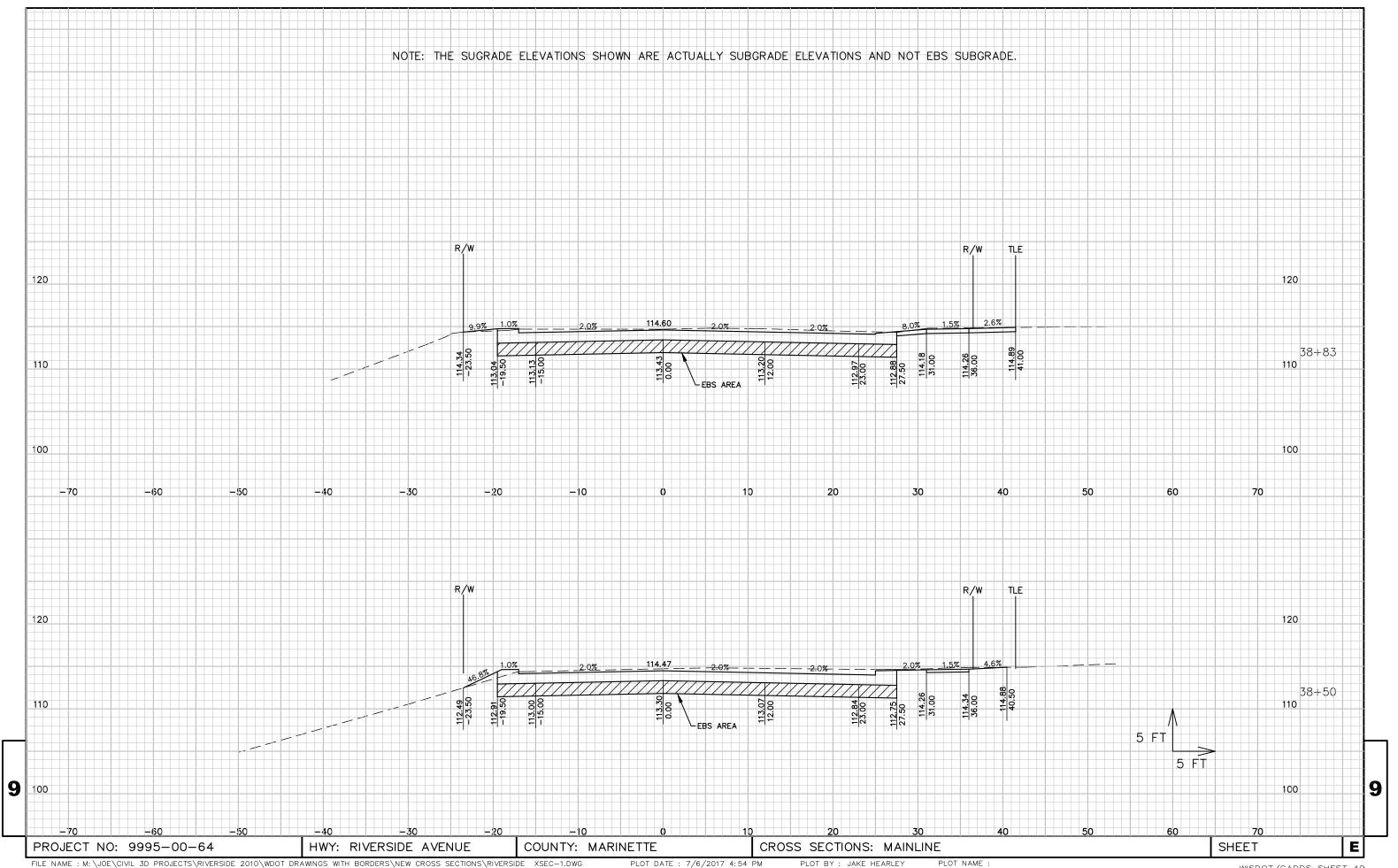


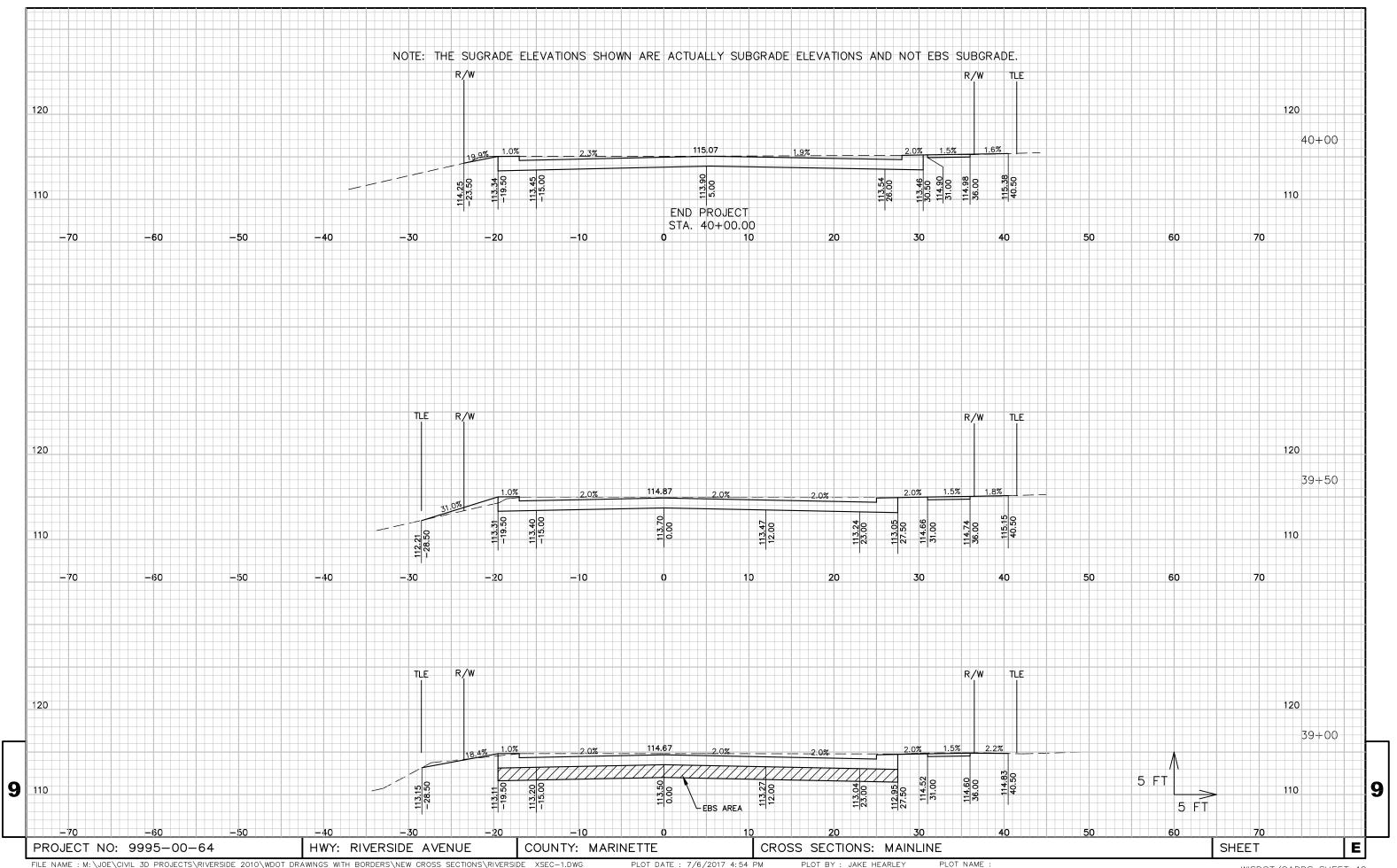












Notes



## Wisconsin Department of Transportation

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