MAD NOV 2016 ORDER OF SHEETS Section No. 1 Section No. 2 Section No. 3 Section No. 3 Section No. 8 Structure Plans TOTAL SHEETS = 42 DESIGN DESIGNATION

Typical Sections and Details Estimate of Quantities

Miscellaneous Quantities

Computer Earthwork Data

Right of Way Plat

ECT ID:	
1206-04-66	
COUNTY:	
DANE COUNTY	

A.A.D.T.

A.A.D.T. D.H.V.

DESIGN SPEED

CORPORATE LIMITS

PROPERTY LINE

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

LOT LINE

CONVENTIONAL SYMBOLS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

D.D.

PLAN

2015 = 128,000

= N/A

= N/A = N/A

= 60 MPH

STATE OF W	ISCONSIN
DEPARTMENT OF T	RANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

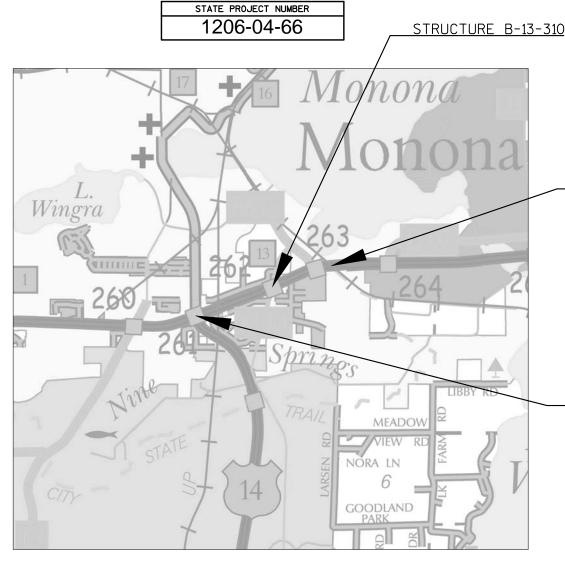
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2016339 1206-04-66

C MADISON, SOUTH MADISON BELTLINE

(PARK ST, CMSTPP RR, RIMROCK RD BRGS)

USH 12

DANE COUNTY



STRUCTURE B-13-280

STRUCTURES B-13-016 & B-13-191

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY Surveyor ALEX HAGEN DAVID LAYTON BRENDA SCHOENFELD APPROVED FOR THE DEPARTMENT DATE: 7/1/2016 Ε

ROCK MARSH OR ROCK PROFILE (To be noted as such)

SPECIAL DITCH GRADE ELEVATION

CULVERT (Profile View)

PROFILE

WATER

GRADE LINE

ORIGINAL GROUND

UTILITIES **ELECTRIC** OVERHEAD UTILITY FIBER OPTIC SANITARY SEWER

STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE ₫ TELEPHONE POLE

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

FILE NAME: N:\PDS\C3D\12060436\SHEETSPLAN\010101_TI.DWG LAYOUT NAME - 010101_TI - TITLE SHEET 1 IN EQ 1 MI

PLOT DATE : 7/1/2016 8:33 AM

PLOT BY : HAGEN, ALEX J

PLOT NAME :

WISDOT/CADDS SHEET 10

2

2

GENERAL NOTES

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

DO NOT DRIVE EQUIPMENT OR STORE EQUIPMENT OR MATERIAL IN WETLANDS, WATERWAYS OR ENVIRONMENTAL SENSITIVE AREAS ADJACENT TO THE PROJECT. DO NOT DRIVE EQUIPMENT OR STORE EQUIPMENT OR MATERIALS OUTSIDE OF THE RIGHT OF WAY.

UTILITY CONTACTS

ATC MANAGEMENT, INC. - ELECTRICITY
MIKE OLSEN
801 O'KEEFE RD
P.O. BOX 69113
DE PERE, WI 54115-6113
(920) 338-6582
MOLSEN@ATCLLC.COM

MADISON GAS AND ELECTRIC COMPANY - ELCTRICITY/GAS TIM STATZ P.O. BOX 1231 MADISON, WI 53701-1231 (608) 252-4727 TSTATZ@MGE.COM

MADISON WATER UTILITY - WATER DENNIS CAWLEY 119 E. OLIN AVE MADISON, WI 53713-1431 (608) 266-4651 DCAWELY@CITYOFMADISON.COM



OTHER AGENCIES

DNR LIASON ERIC HEGGELUND DEPT. OF NATURAL RESOURCES 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711-5397 (608) 275-3301 ERIC.HEFFELUND@WISCONSIN.GOV

DESIGN CONTACT
DAVID LAYTON P.E.
DEPT. OF TRANSPORTATION
2101 WRIGHT ST.
MADISON, WI. 53704
(608) 246-3821
DAVID.LAYTON@DOT.WI.GOV

ABBREVIATIONS

WB

LS

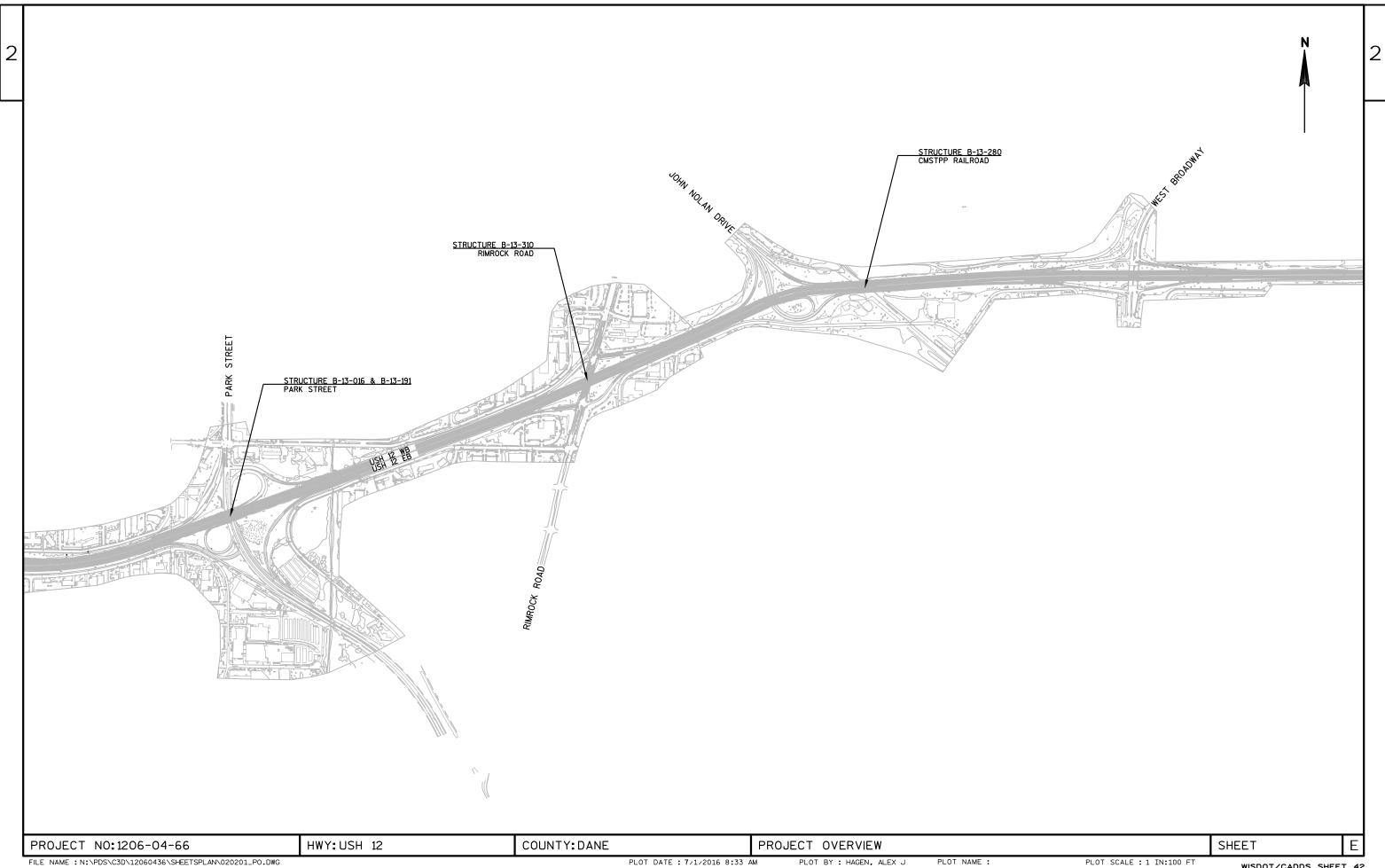
A.A.D.T ANNUAL AVERAGE DAILY TRAFFIC D.H.V DESIGN HOUR VOLUME D.D. DIRECTIONAL DISTRIBUTION T. TRUCKS (PERCENT OF) ESALS EQUIVALENT SINGLE AXLE LOADS NB NORTH BOUND SB SOUTH BOUND EB EAST BOUND

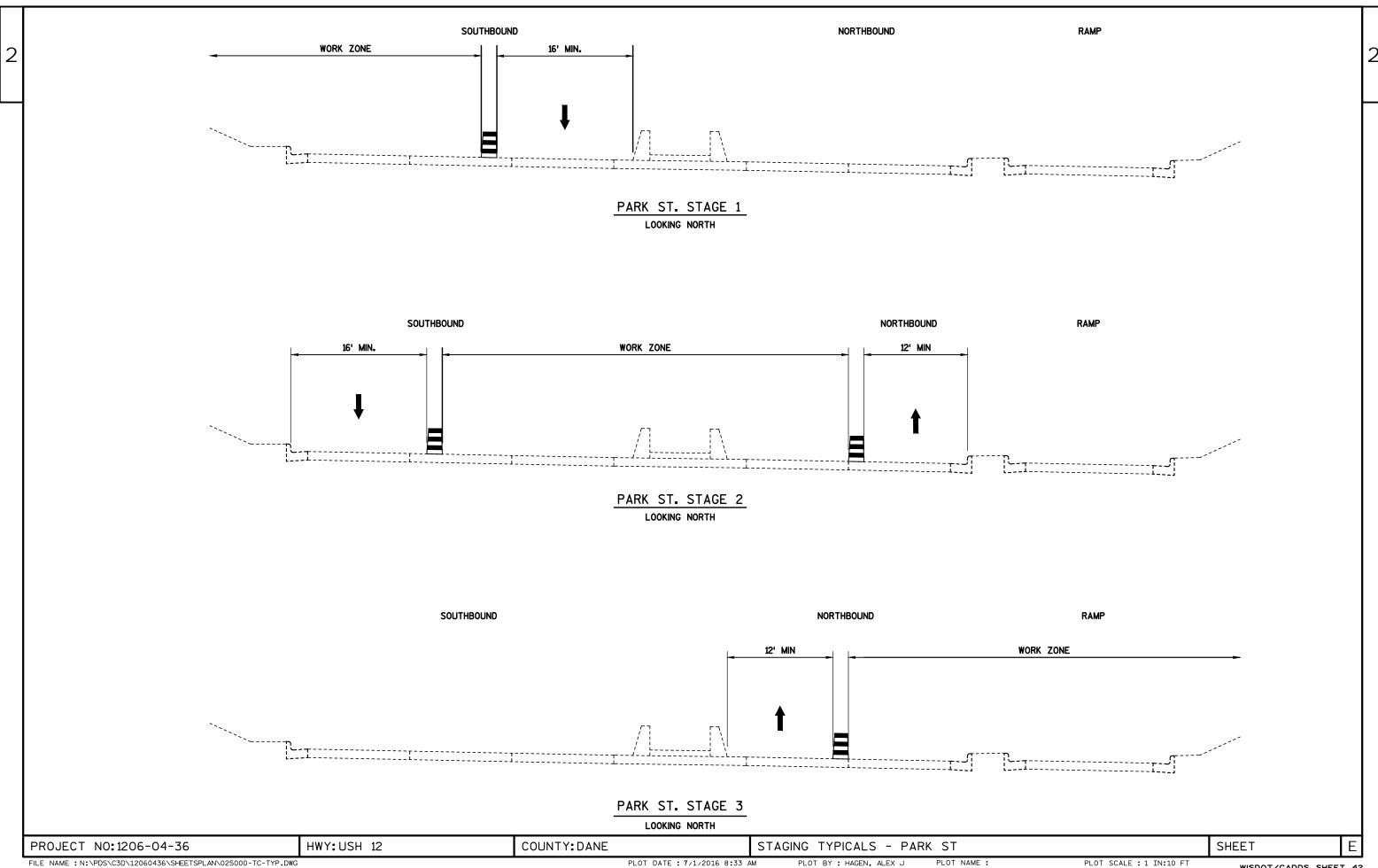
WEST BOUND LUMP SUM

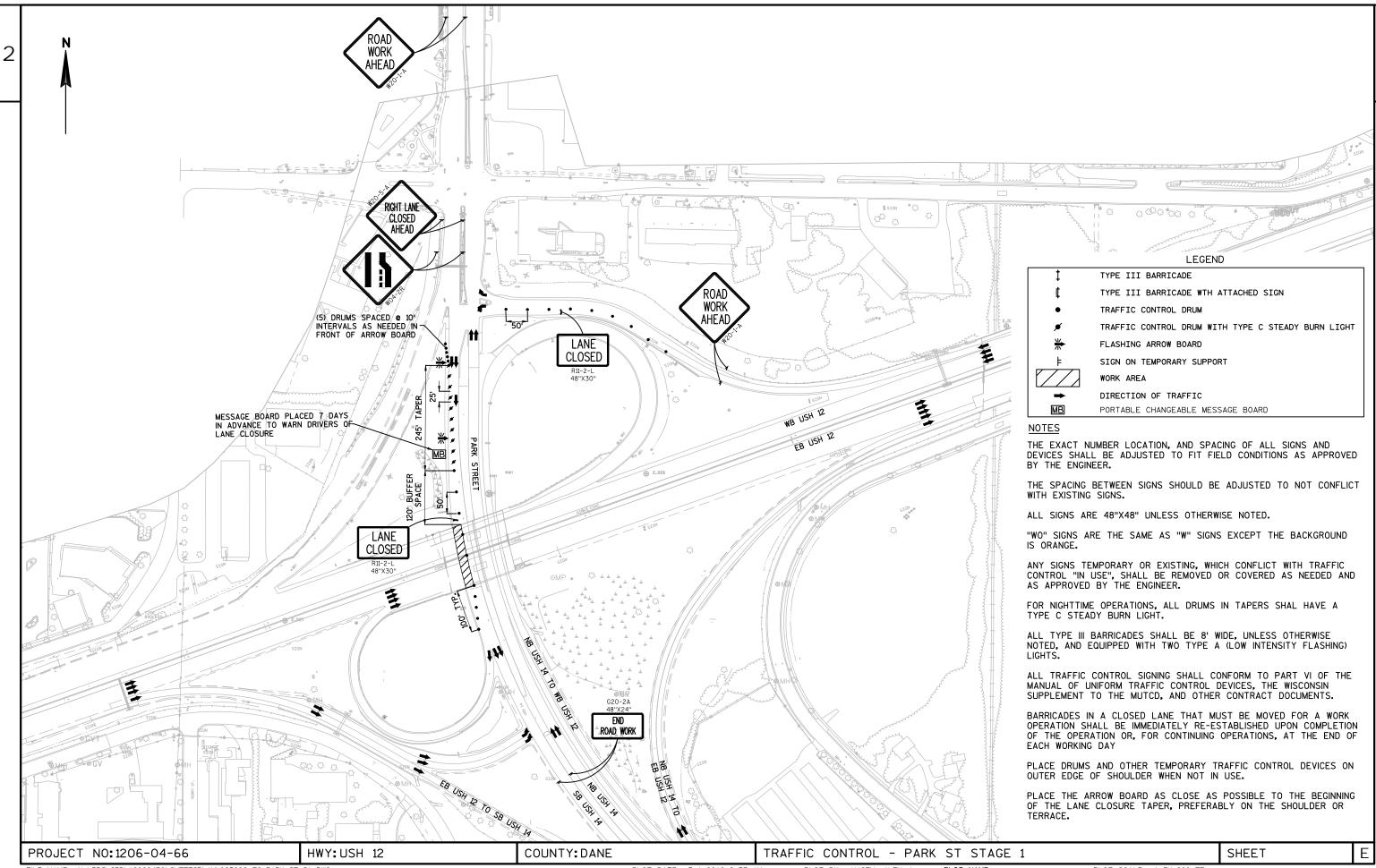
ORDER OF SECTION 2 SHEETS

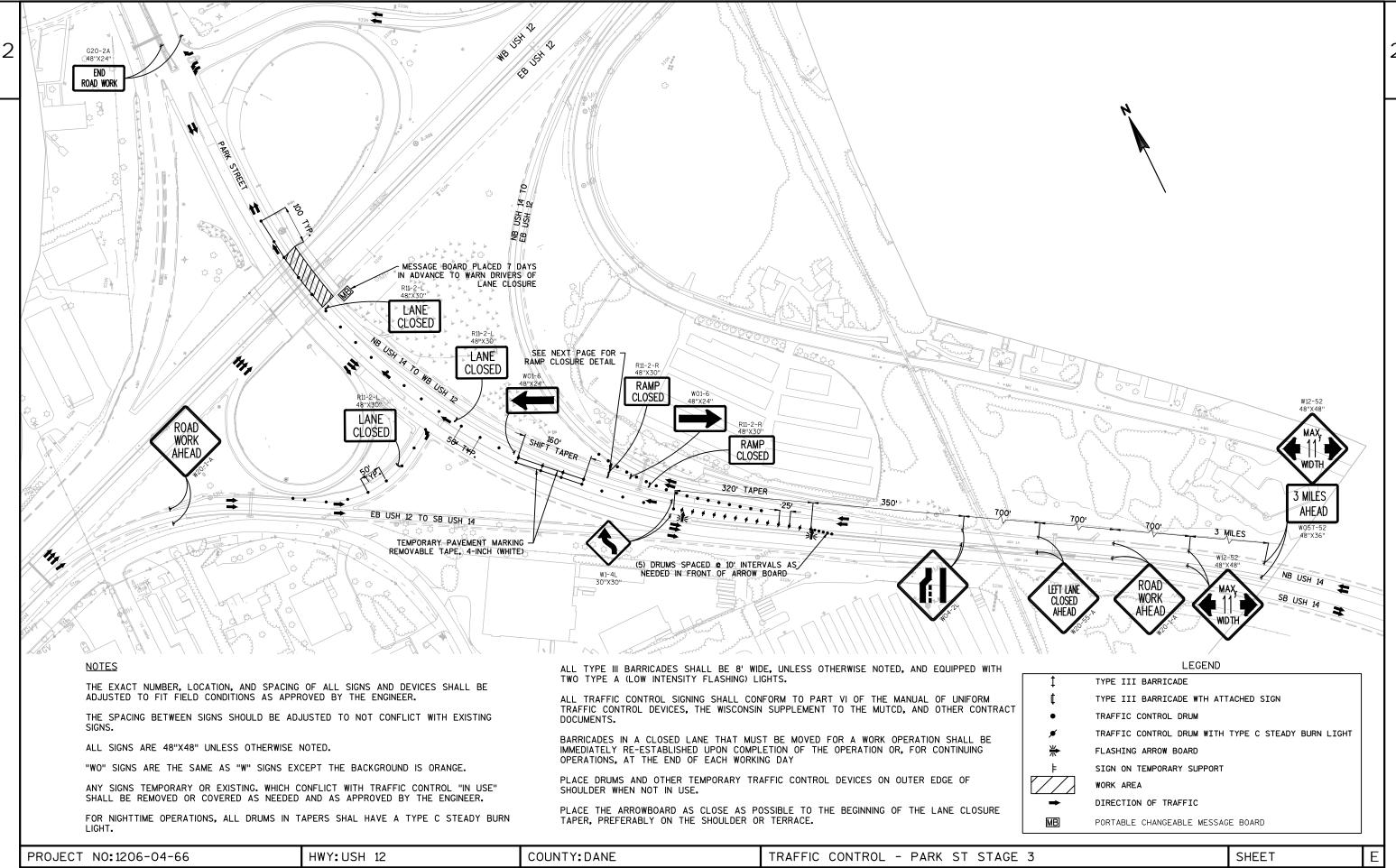
GENERAL NOTES
PROJECT OVERVIEW
TRAFFIC CONTROL/STAGING

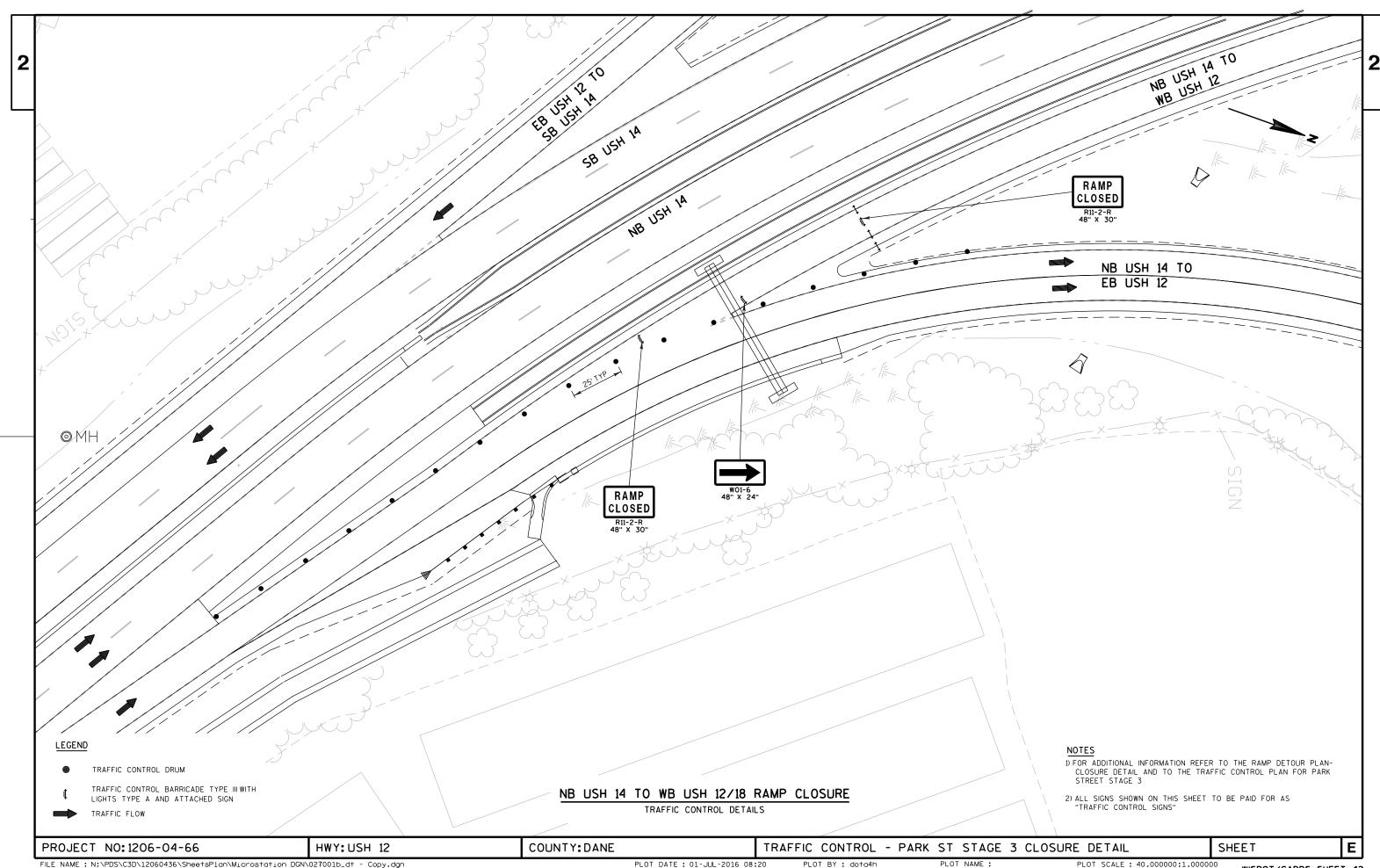
PROJECT NO:1206-04-66 HWY:USH 12 COUNTY:DANE GENERAL NOTES SHEET E

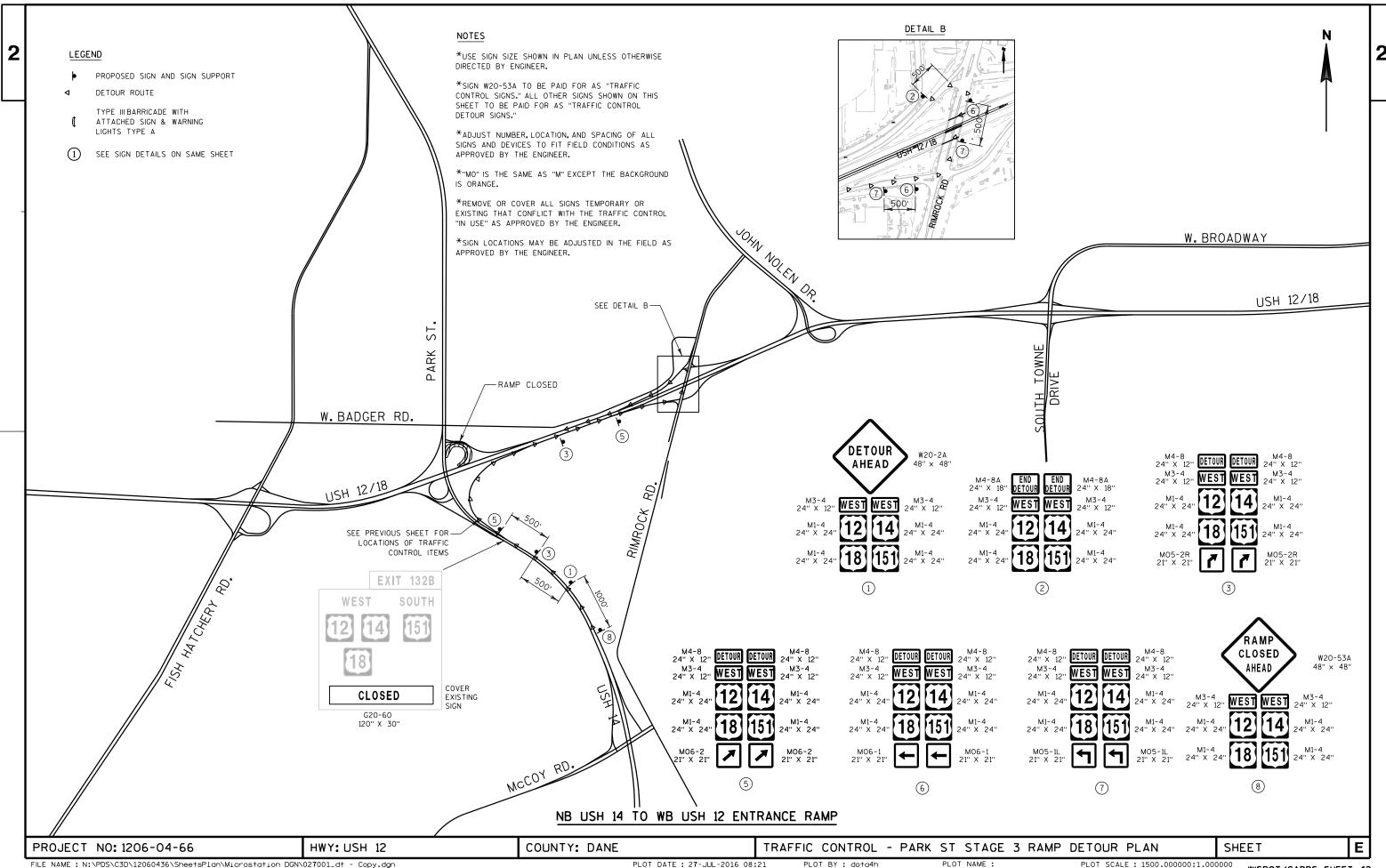












2

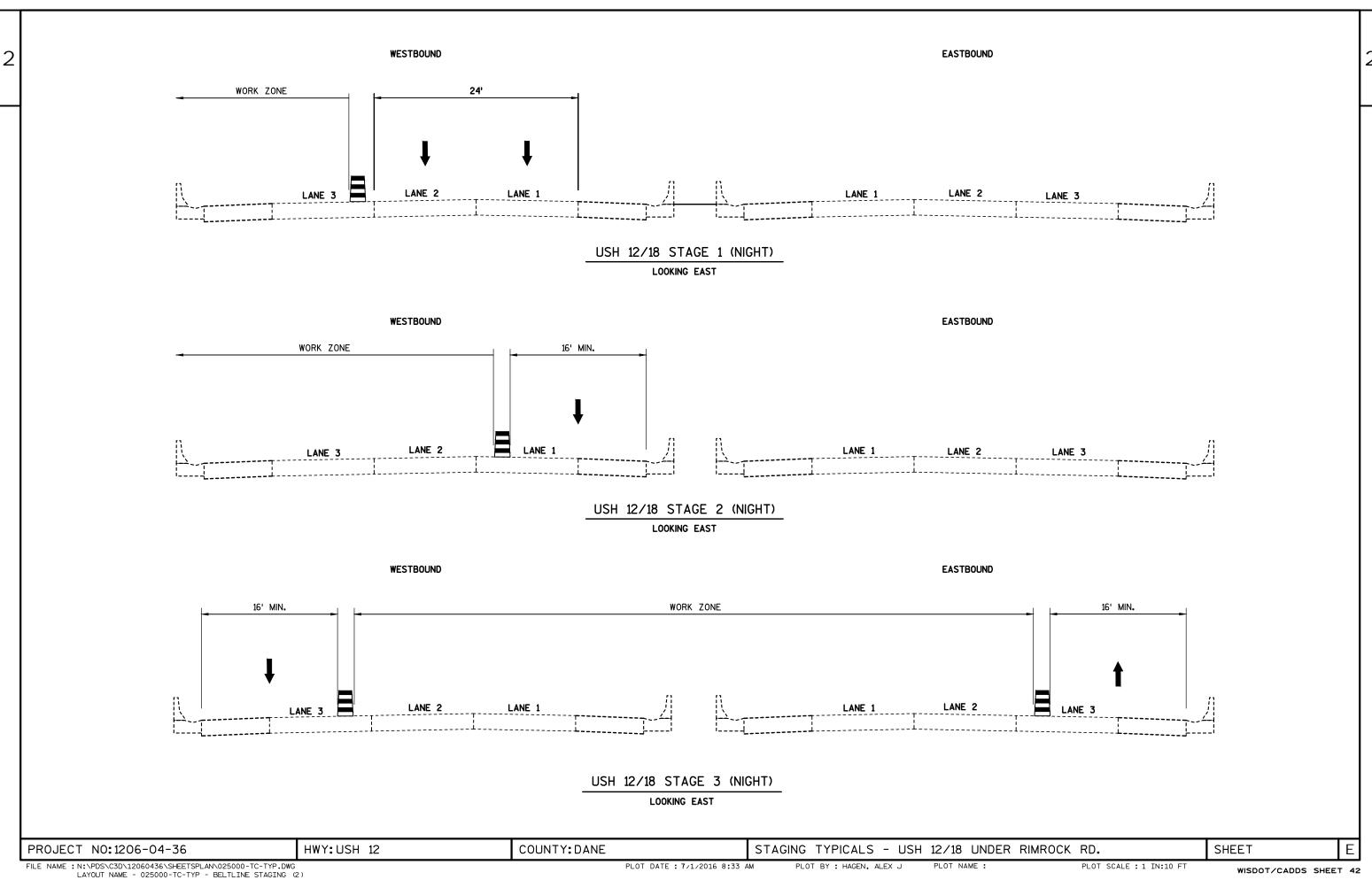
SOUTHBOUND

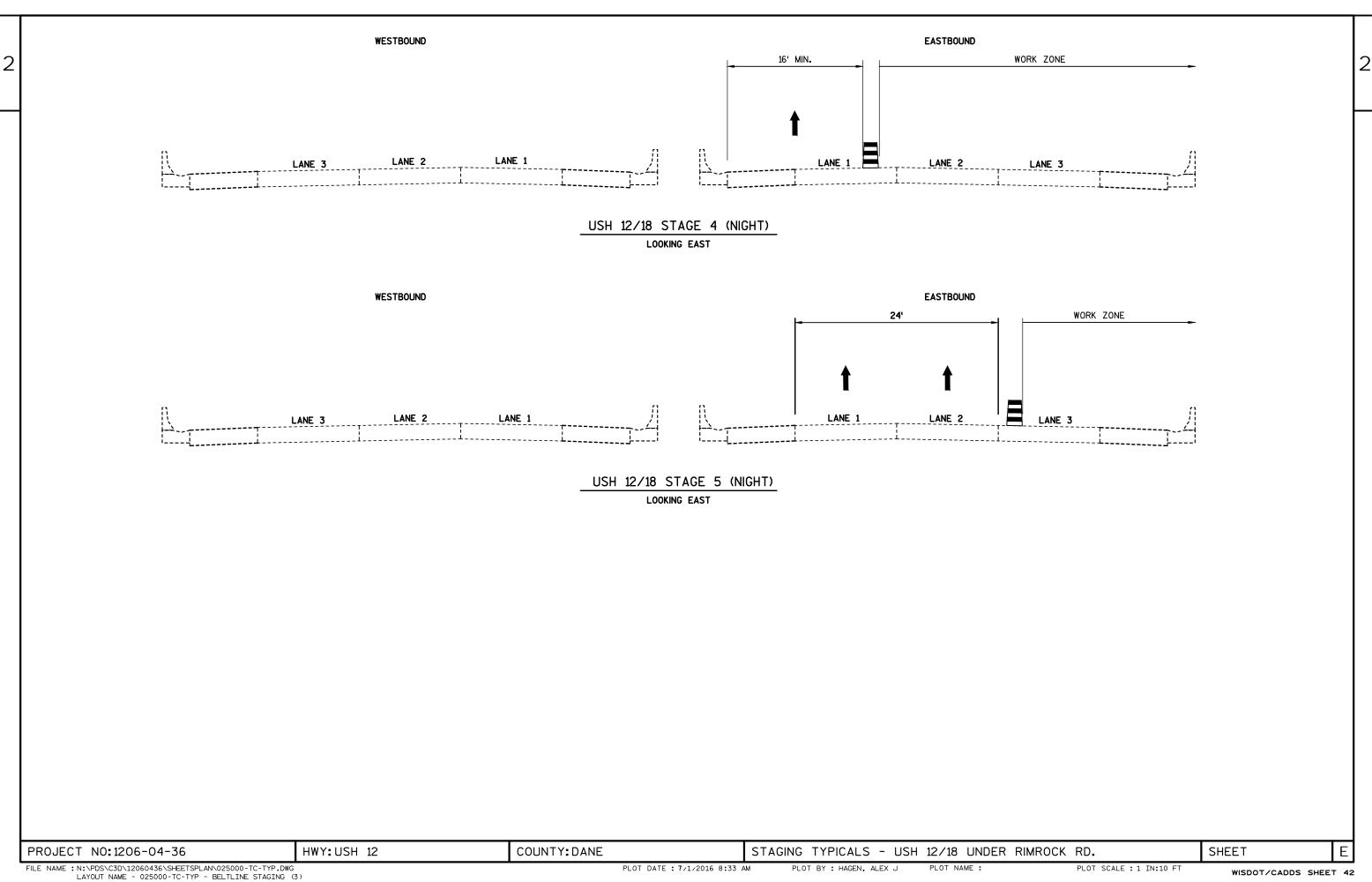
T 11' 14' 5'

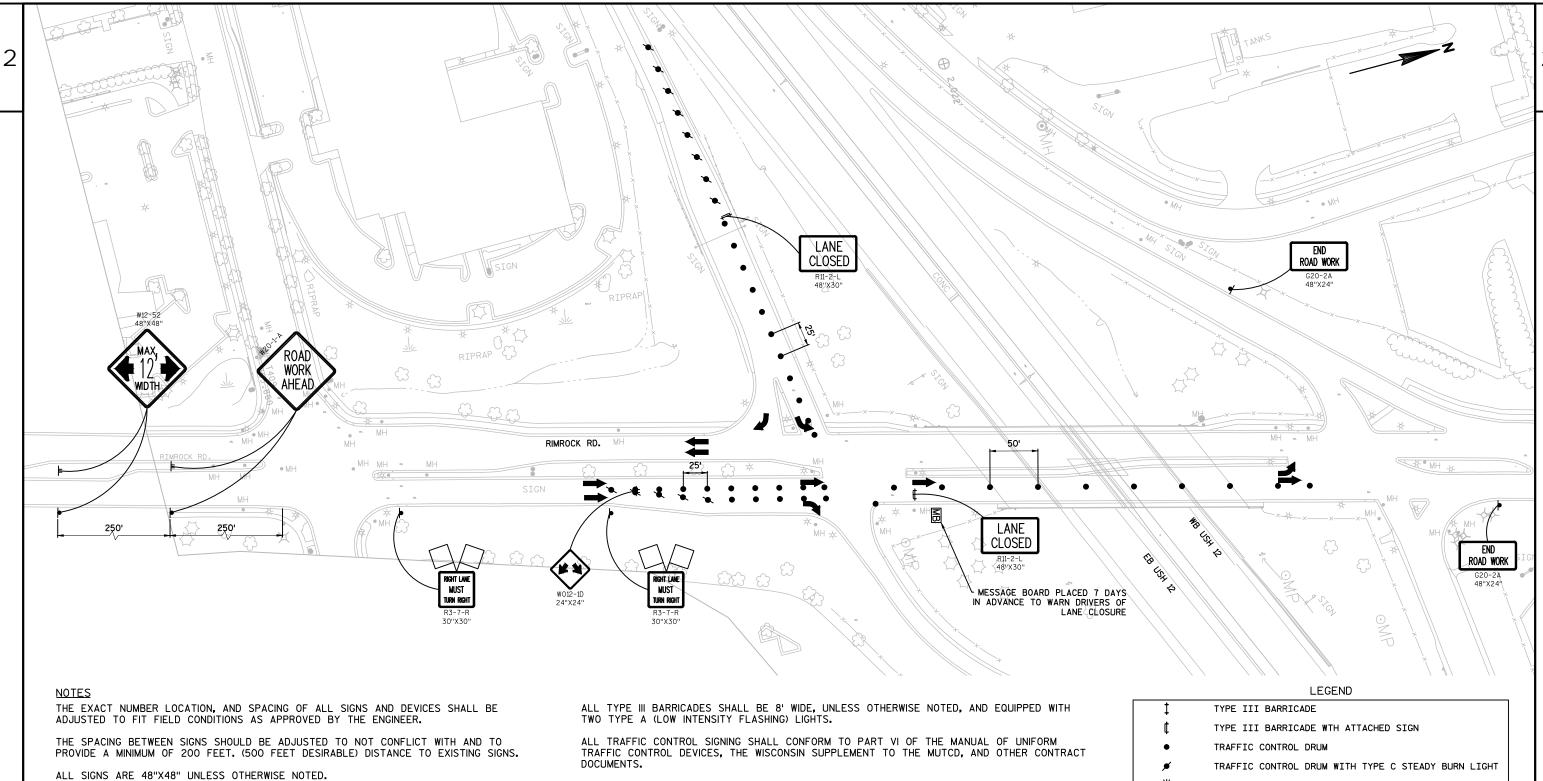
EQUIPMENT STORAGE

RIMROCK RD. STRUCTURE OVER BELTLINE LOOKING NORTH

PROJECT NO:1206-04-36 HWY:USH 12 COUNTY:DANE STAGING TYPICALS - RIMROCK RD E







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

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

FOR NIGHTTIME OPERATIONS, ALL DRUMS IN TAPERS SHAL HAVE A TYPE C STEADY BURN LIGHT.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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

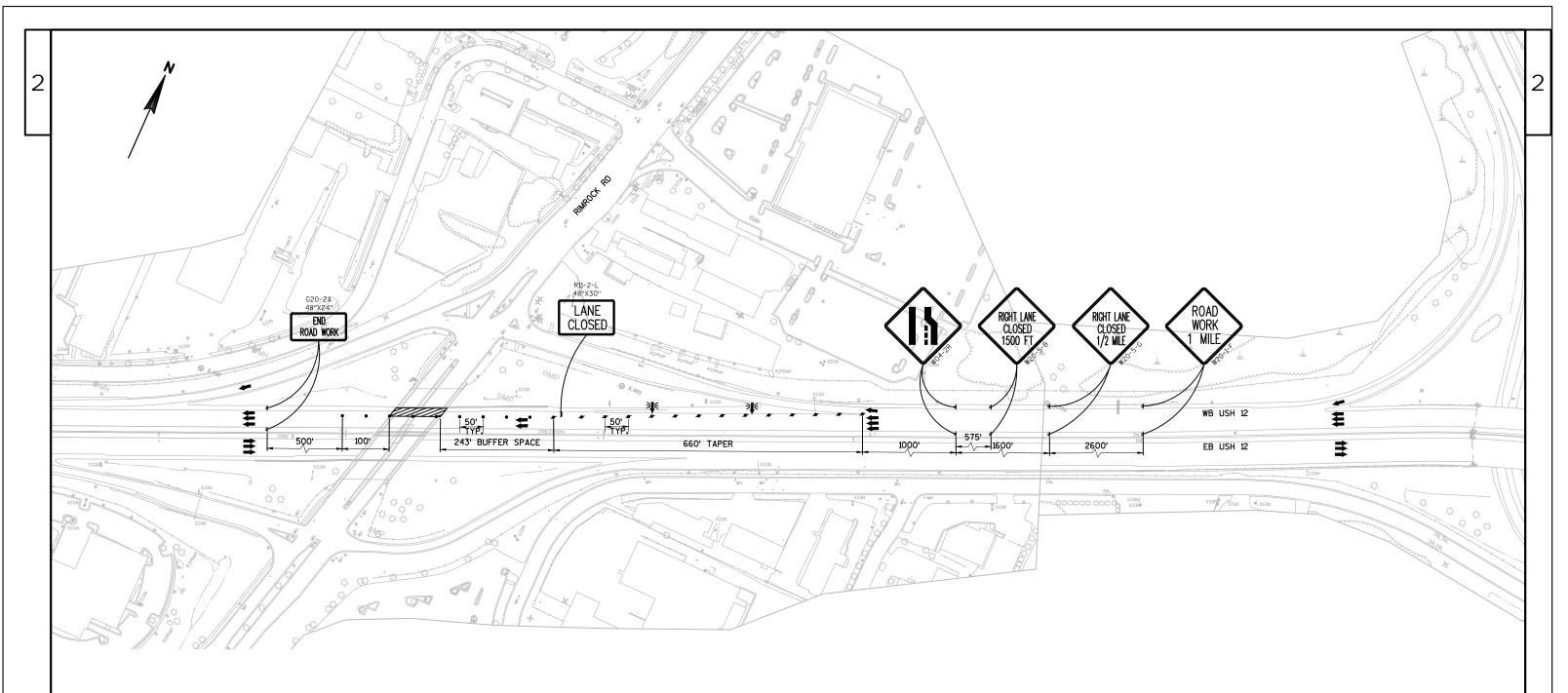
PLACE DRUMS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES ON OUTER EDGE OF SHOULDER WHEN NOT IN USE.

FLASHING ARROW BOARD SIGN ON TEMPORARY SUPPORT WORK AREA DIRECTION OF TRAFFIC

FLAGS, $16" \times 16"$ MIN., (ORANGE)

PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO:1206-04-66 HWY: USH 12 COUNTY: DANE TRAFFIC CONTROL - RIMROCK RD STAGES 1-5 SHEET FILE NAME: N:\PDS\C3D\12060436\SHEETSPLAN\025001-TC_RIMROCK.DWG



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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET. (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

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FOR NIGHTTIME OPERATIONS, ALL DRUMS IN TAPERS SHAL HAVE A TYPE C STEADY BURN

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

HWY: USH 12

ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A (LOW INTENSITY FLASHING) LIGHTS.

ALL TRAFFIC CONTROL SIGNING SHALL CONFORM TO PART VI OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE WISCONSIN SUPPLEMENT TO THE MUTCD, AND OTHER CONTRACT

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

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

PLACE DRUMS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES ON OUTER EDGE OF SHOULDER WHEN NOT IN USE.

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

WORK AREA

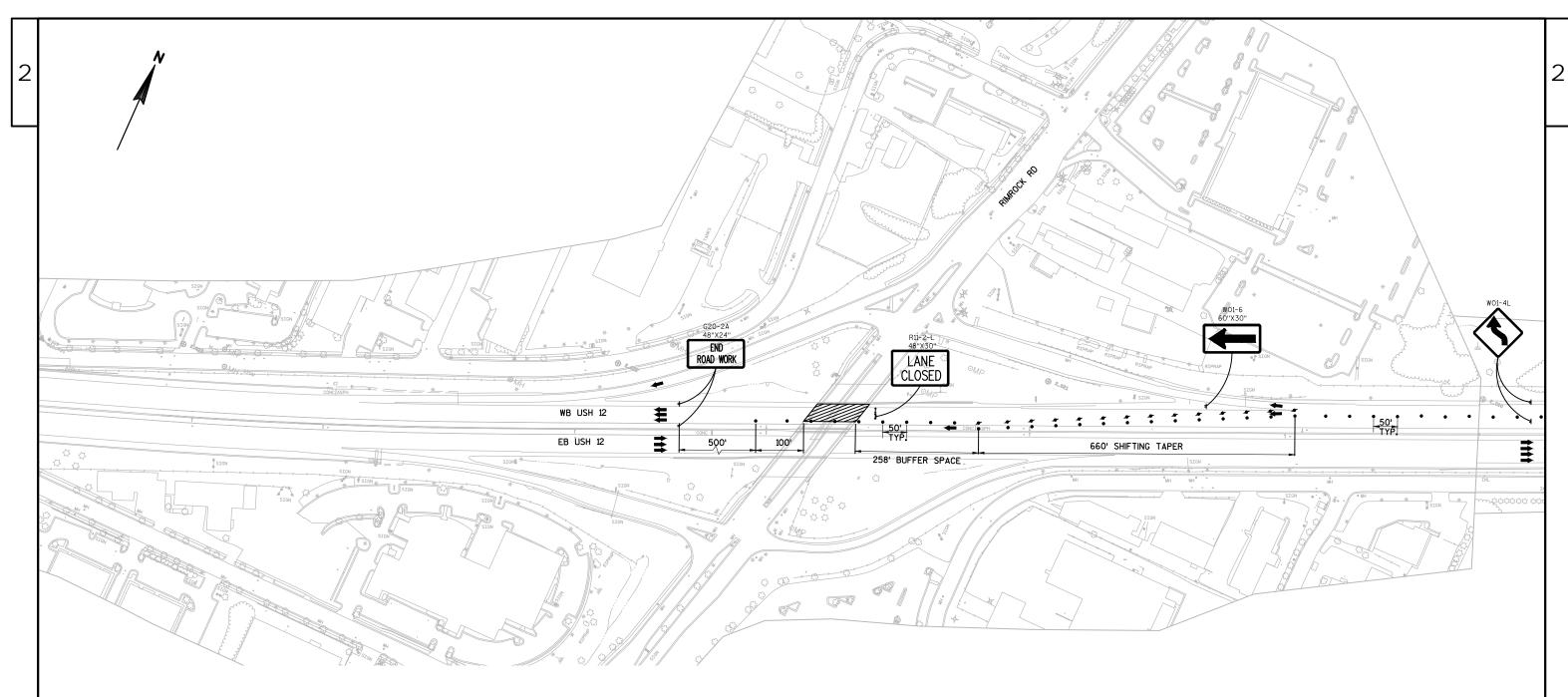
DIRECTION OF TRAFFIC

COUNTY: DANE

TRAFFIC CONTROL - RIMROCK RD STAGE 1

SIGN ON TEMPORARY SUPPORT

PROJECT NO:1206-04-66



NOTES

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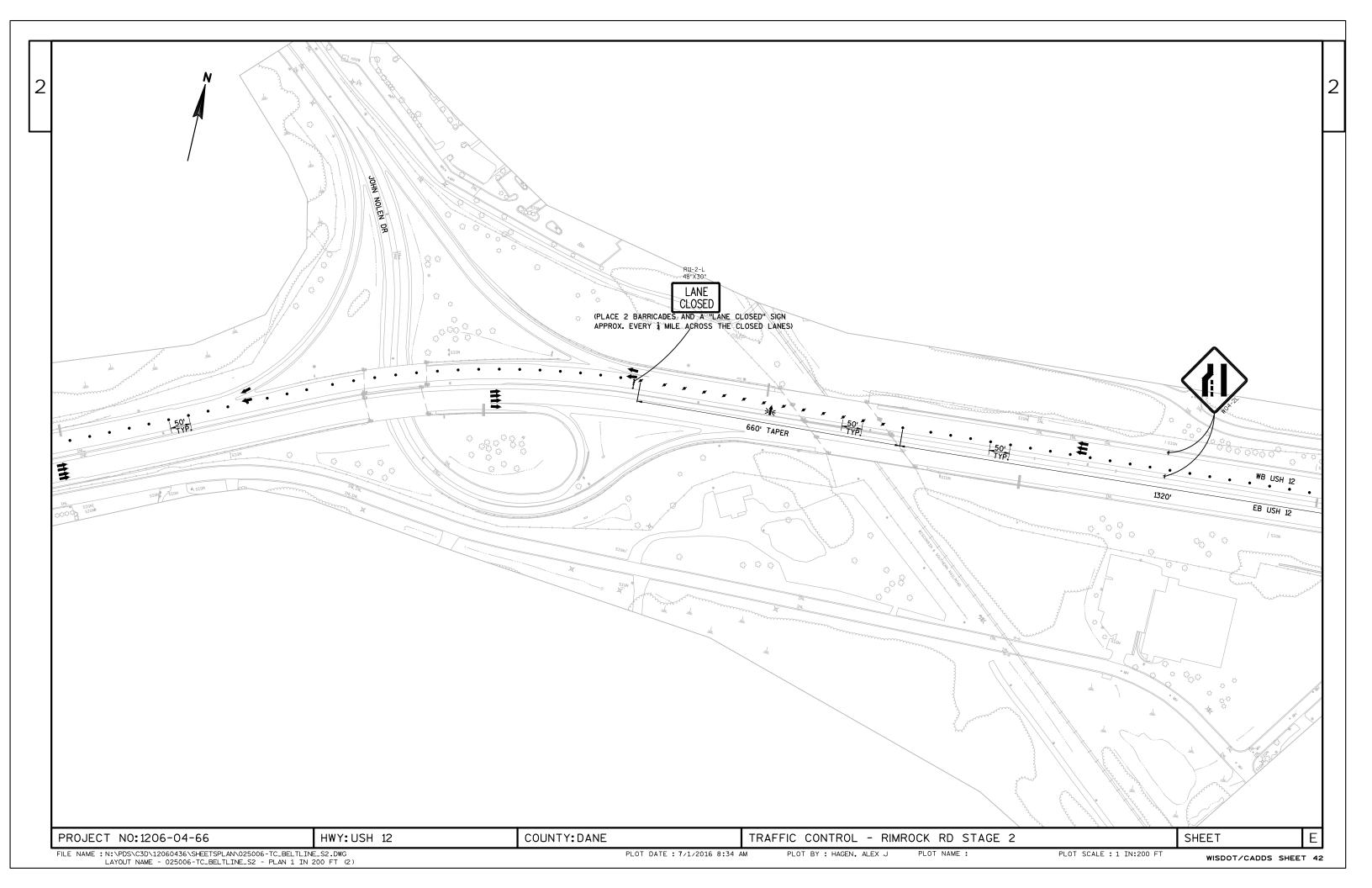
TYPE III BARRICADE TYPE III BARRICADE WTH ATTACHED SIGN TRAFFIC CONTROL DRUM TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT FLASHING ARROW BOARD SIGN ON TEMPORARY SUPPORT

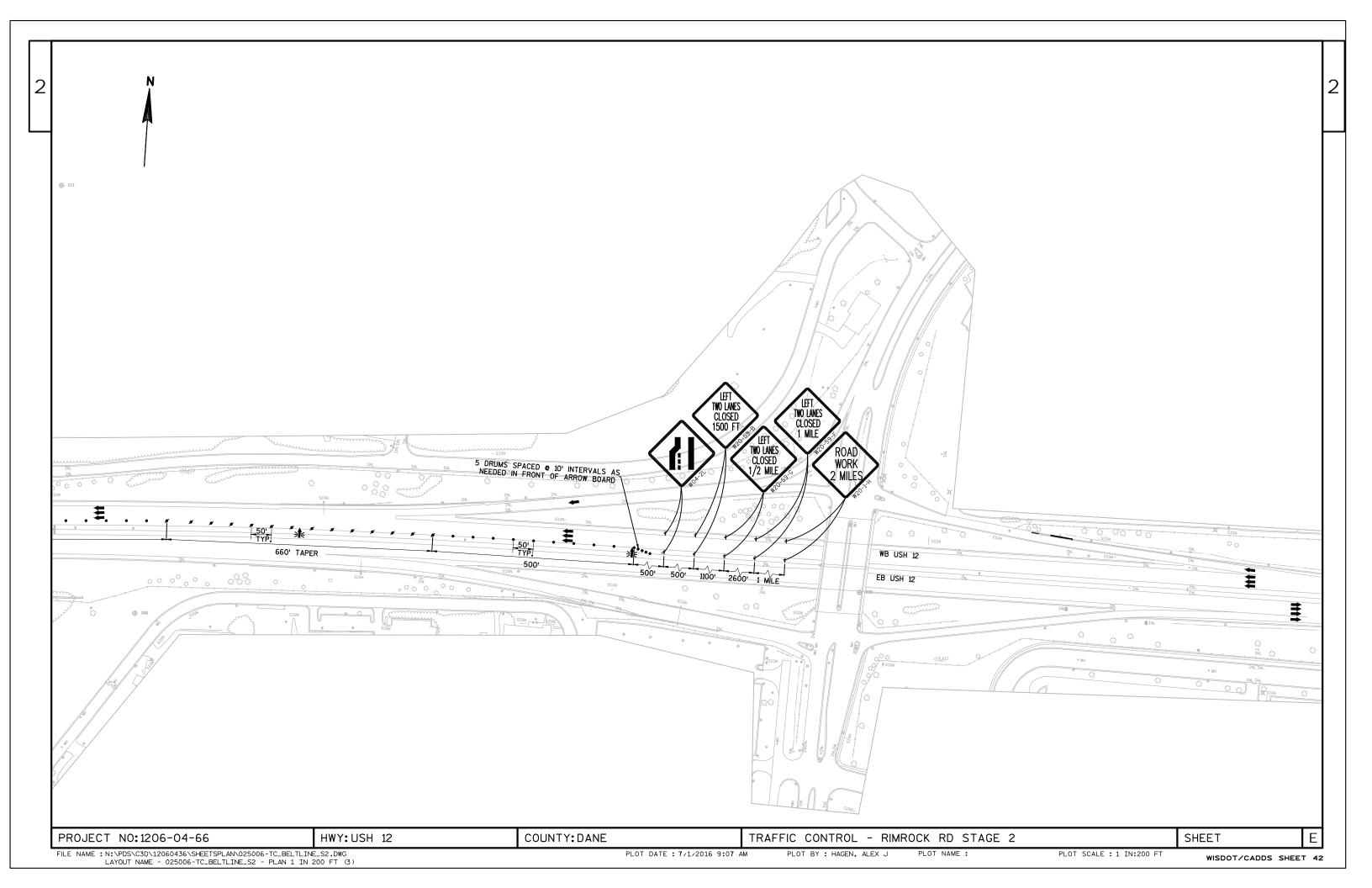
LEGEND

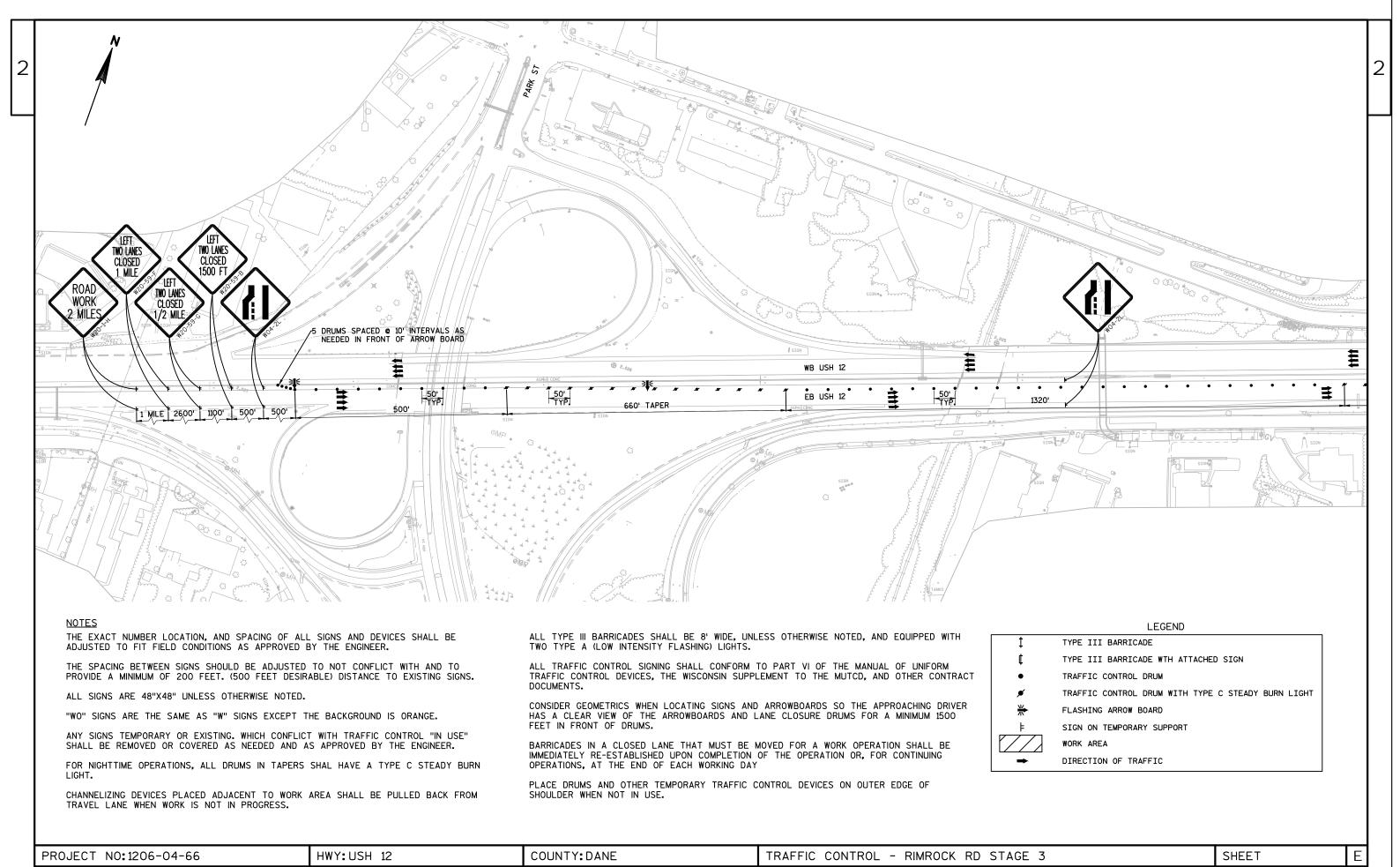
PROJECT NO:1206-04-66 HWY:USH 12 COUNTY:DANE TRAFFIC CONTROL - RIMROCK RD STAGE 2 SHEET

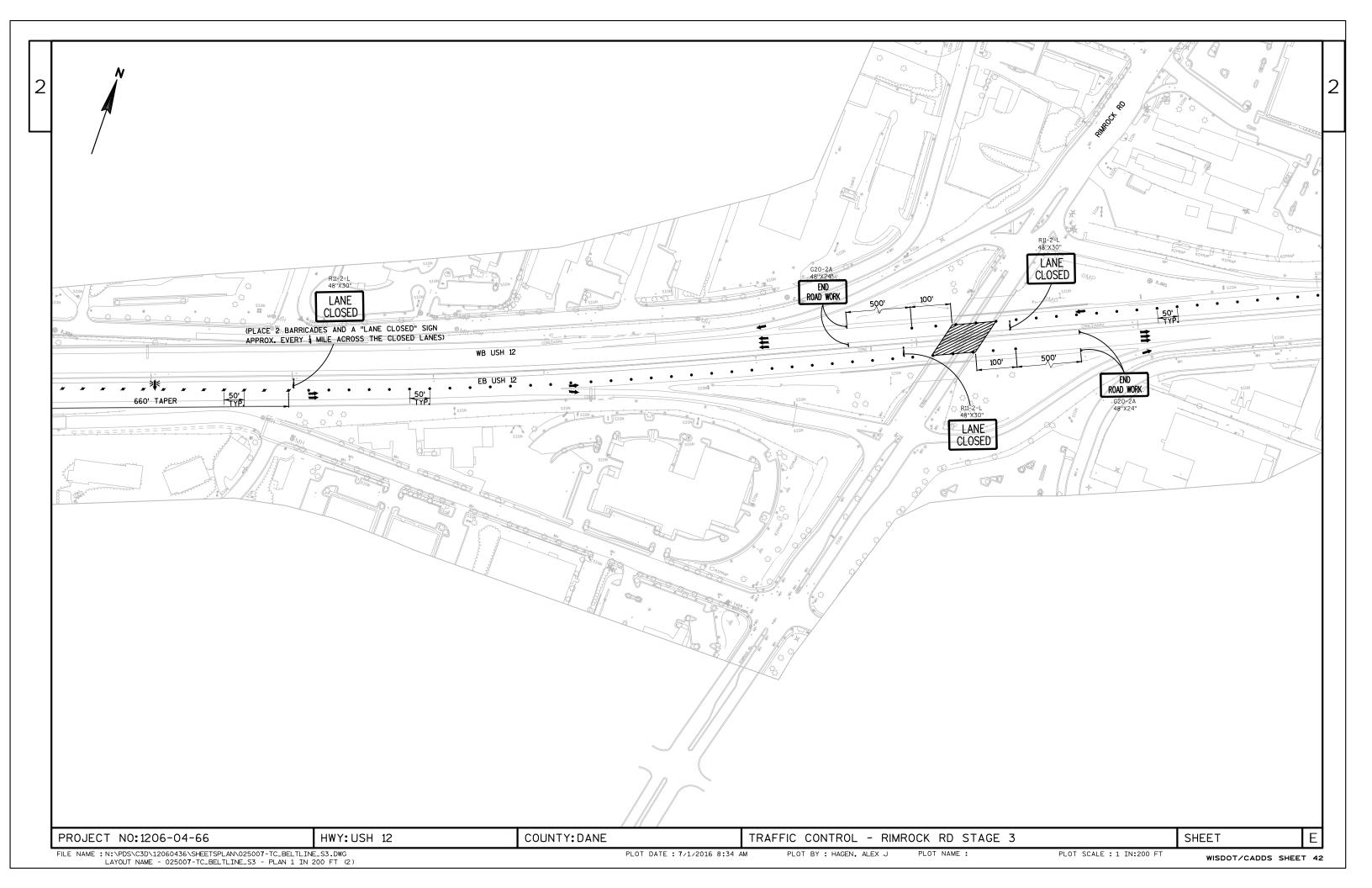
WORK AREA

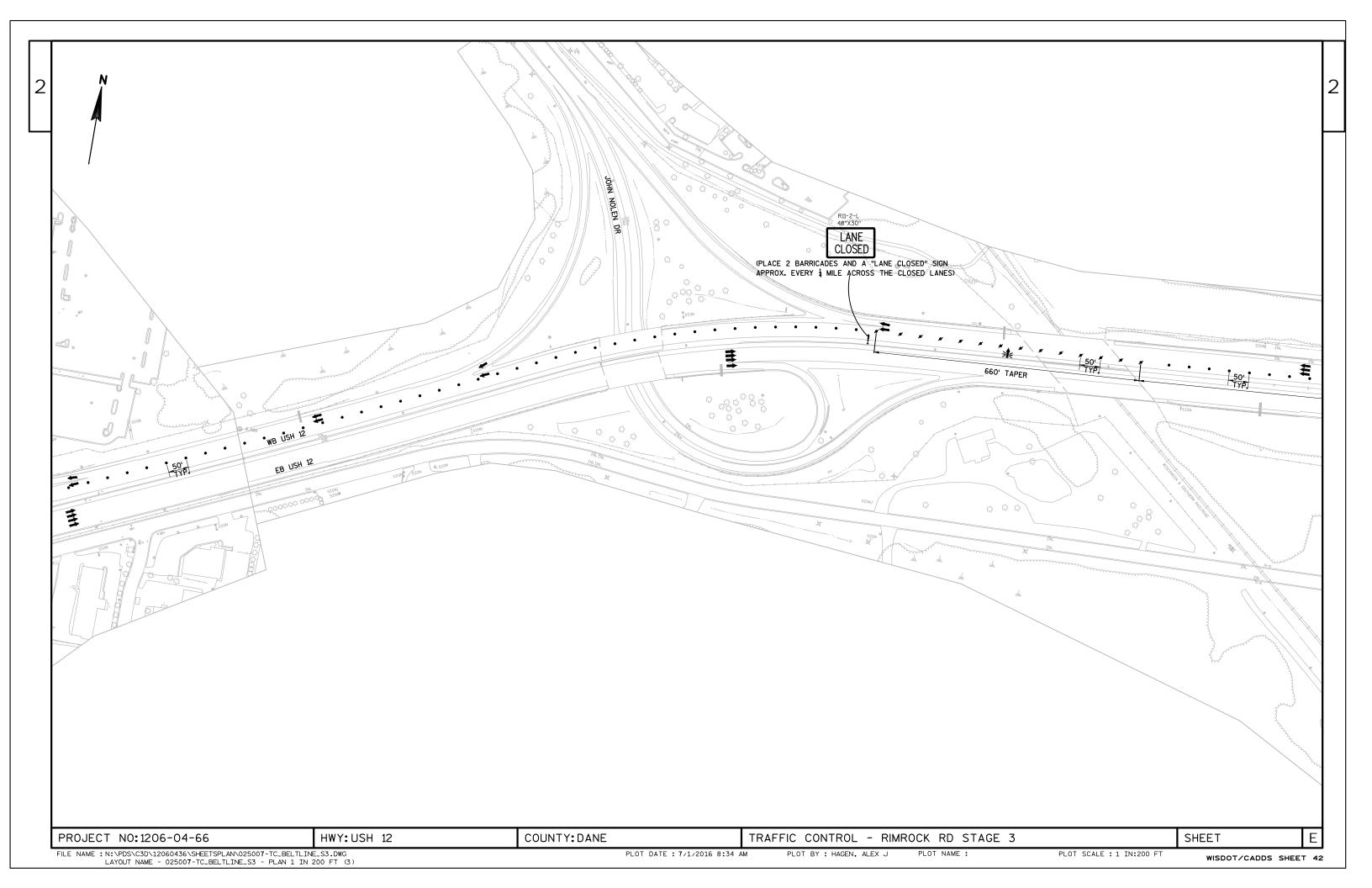
DIRECTION OF TRAFFIC

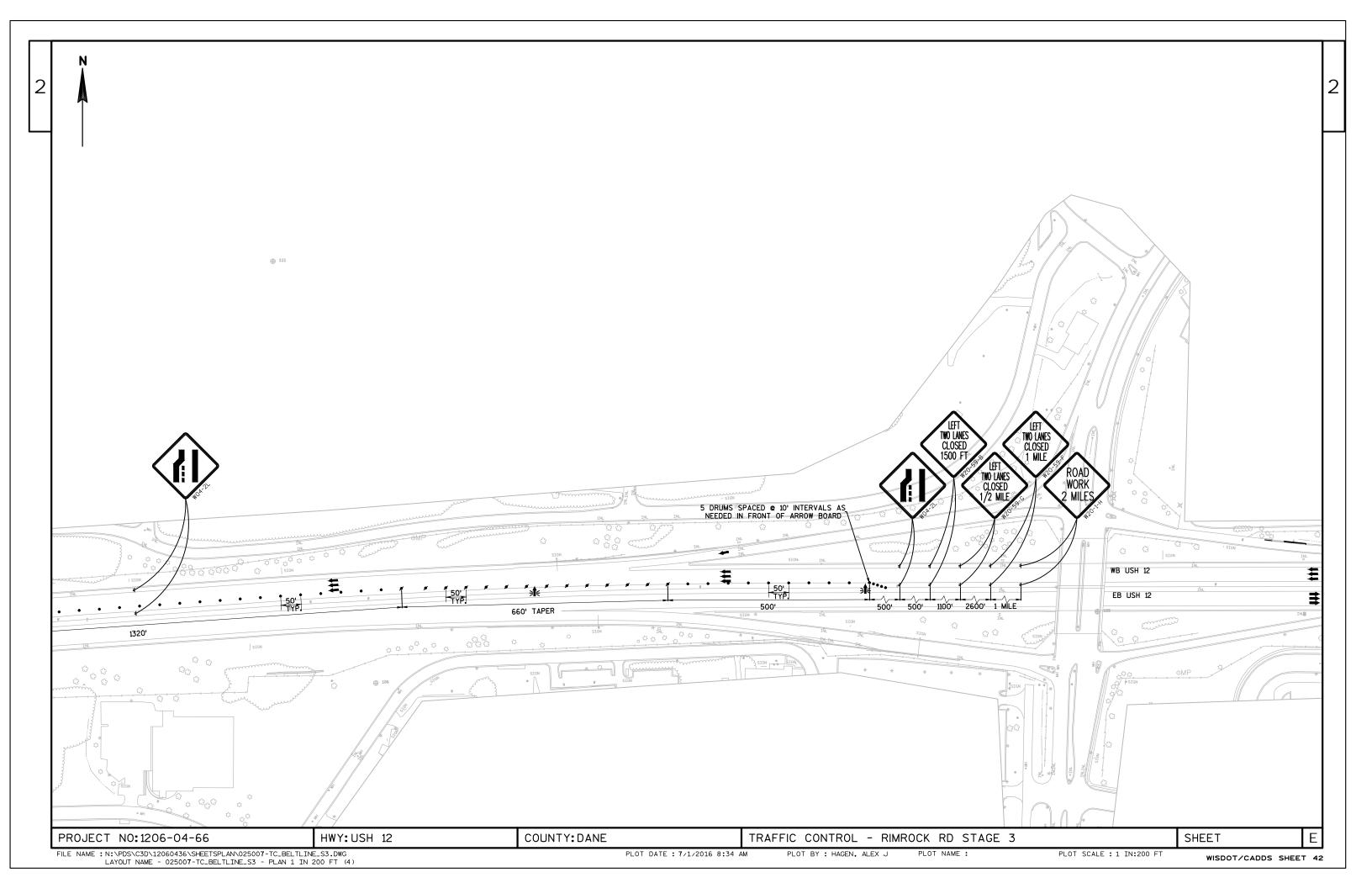


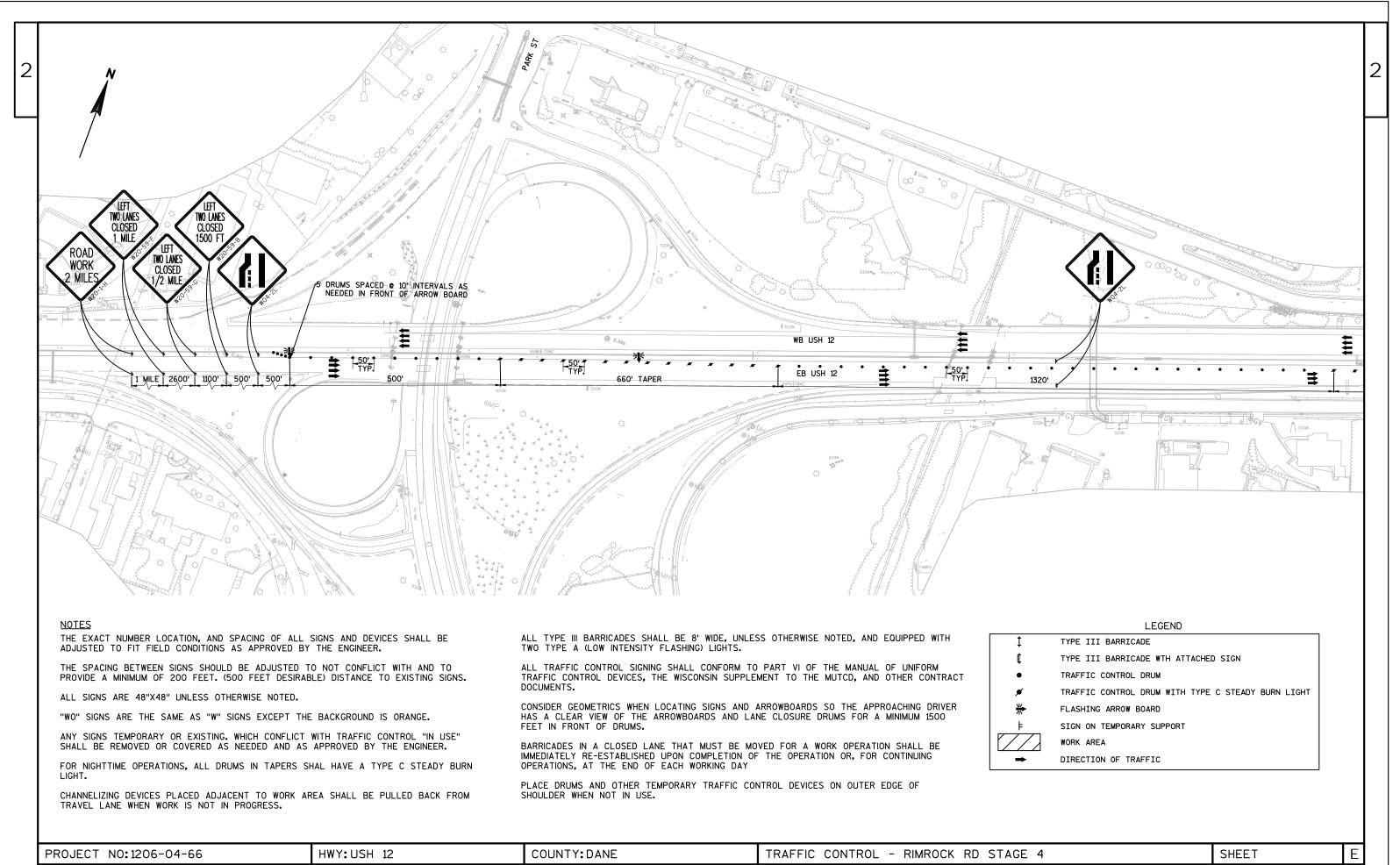


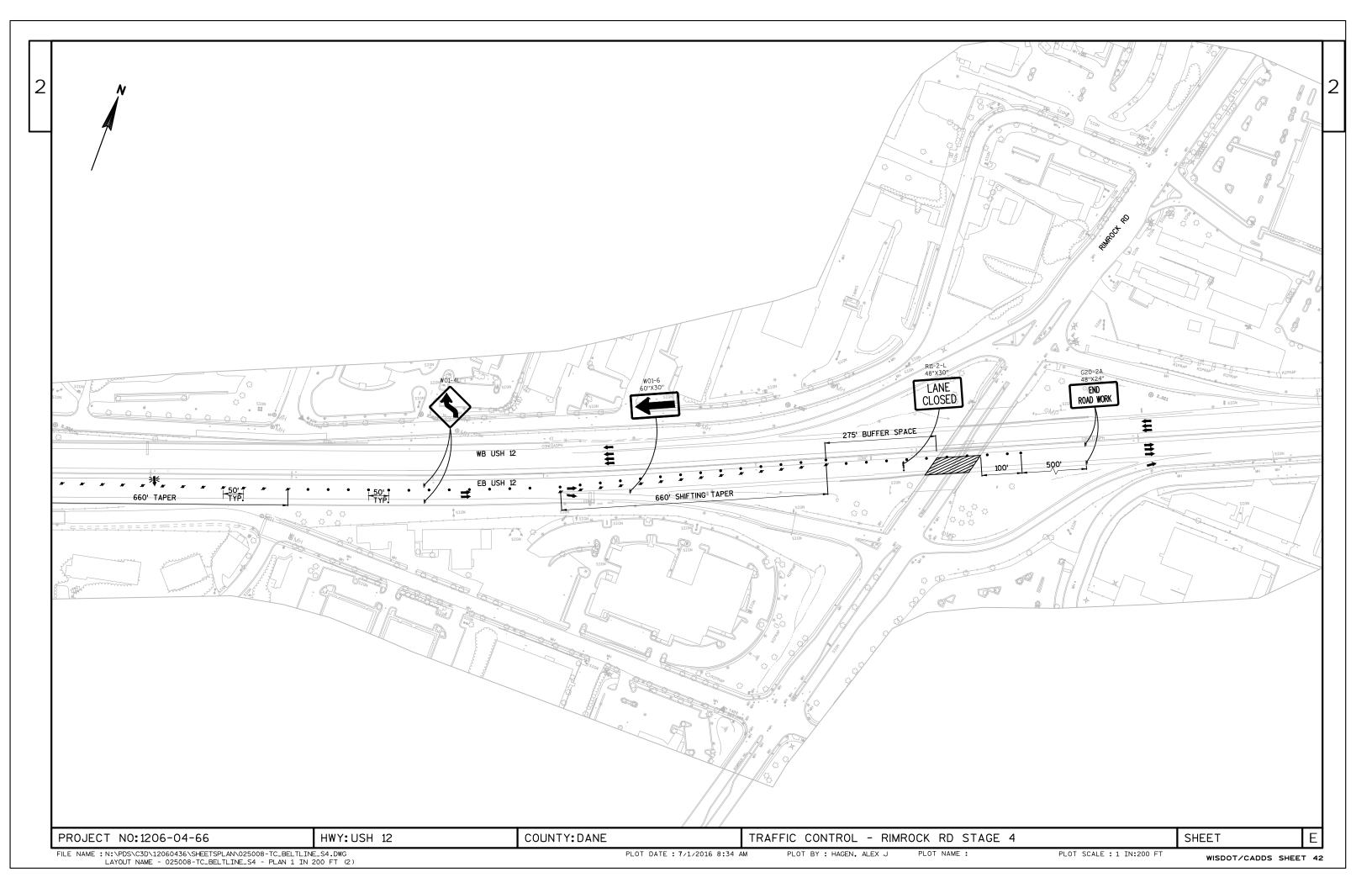


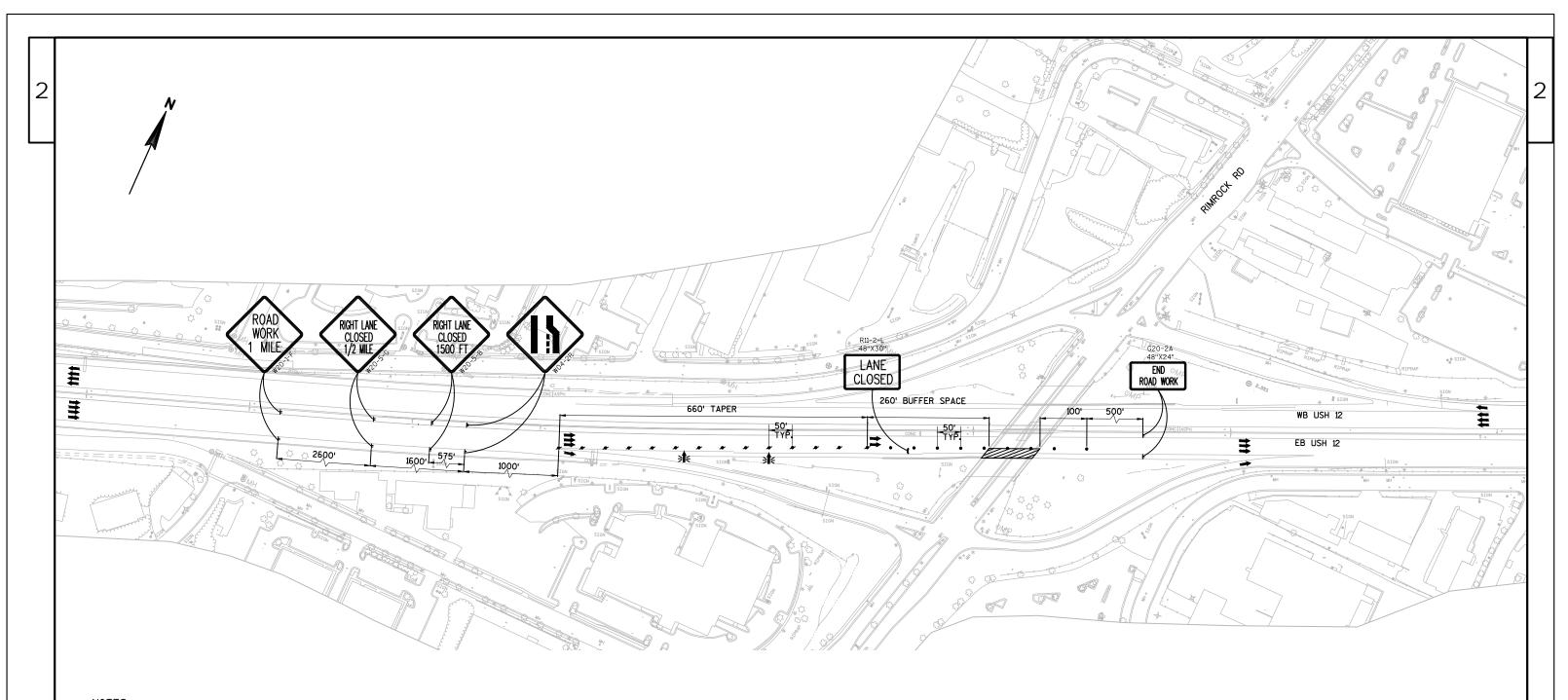












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PLACE DRUMS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES ON OUTER EDGE OF SHOULDER WHEN NOT IN USE.

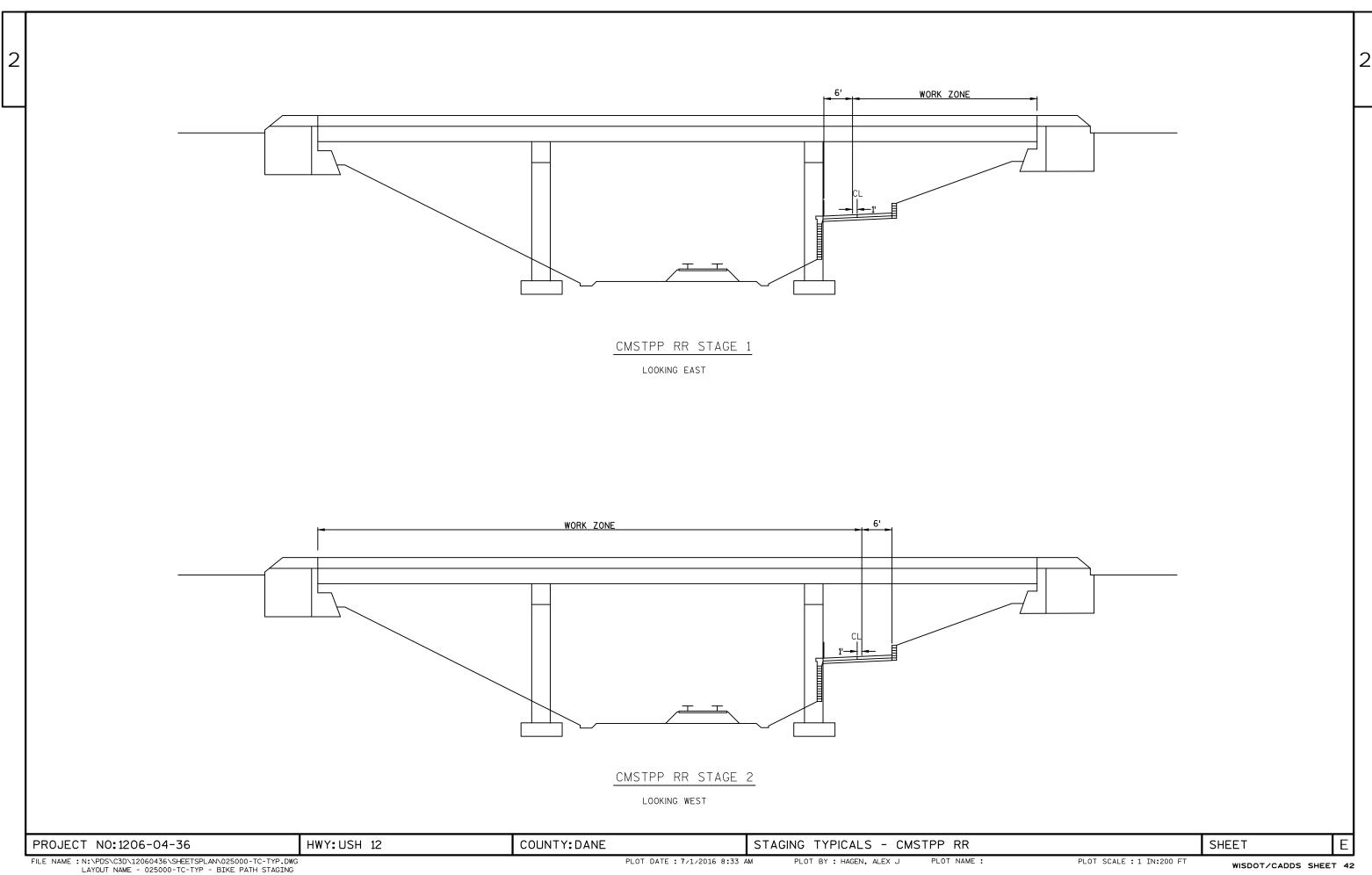
↑ TYPE III BARRICADE ↑ TYPE III BARRICADE WTH ATTACHED SIGN • TRAFFIC CONTROL DRUM ▼ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT ▼ FLASHING ARROW BOARD ├ SIGN ON TEMPORARY SUPPORT WORK AREA DIRECTION OF TRAFFIC

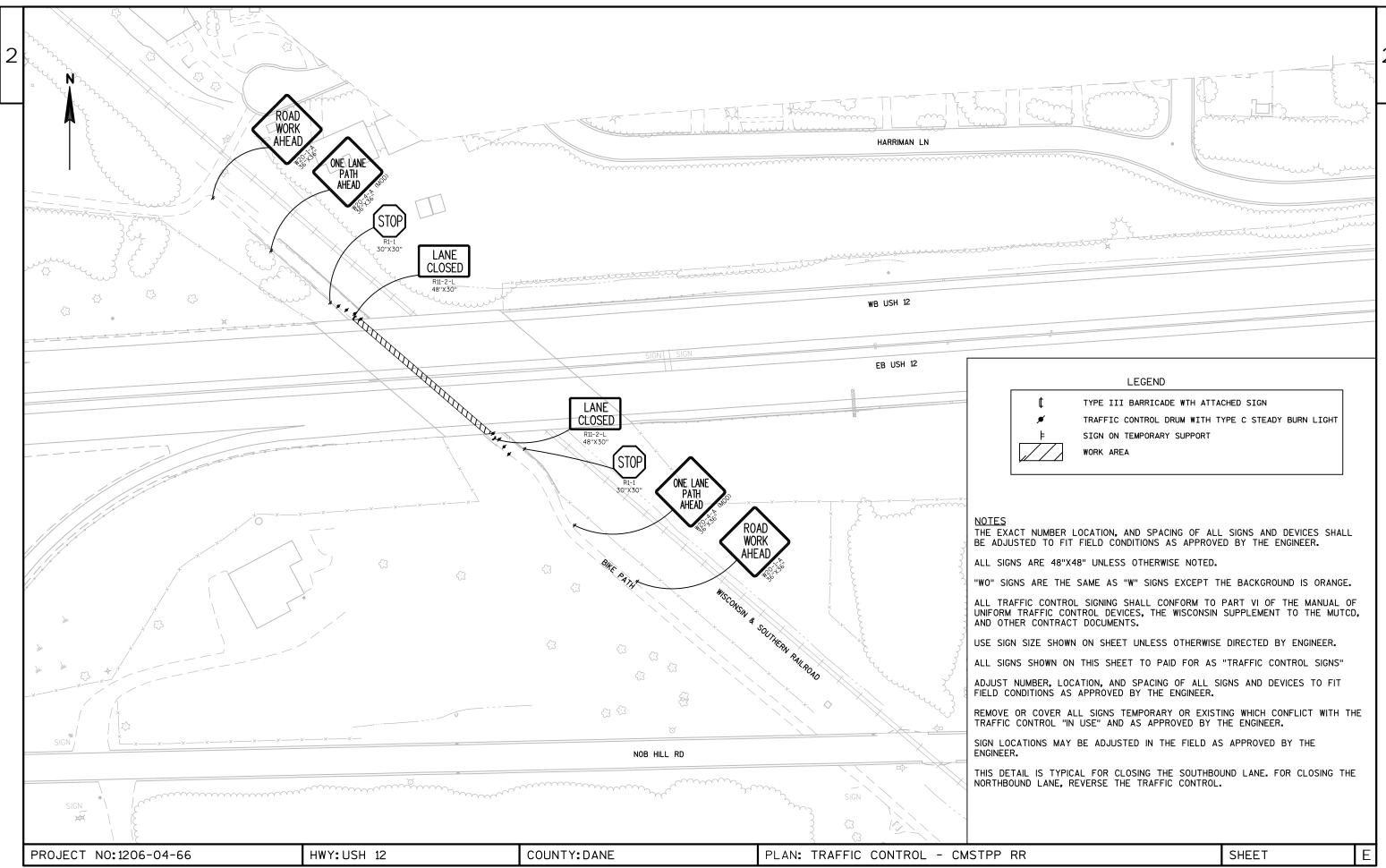
LEGEND

TRAFFIC CONTROL - RIMROCK RD STAGE 5

PLOT NAME :

SHEET





		643. 0200		643. 0300		643. 0420		643. 0705		643. 0715		643. 0800		643. 0900
		TRAFFIC CONTROL		TRAFFIC	T	RAFFIC CONTROL	T	RAFFIC CONTROL	TR	RAFFIC CONTROL	T	RAFFIC CONTROL		TRAFFIC
		SURVEI LLANCE AND		CONTROL		BARRI CADES	V	VARNING LIGHTS	W	ARNING LIGHTS		ARROW		CONTROL
		MAI NTENANCE		DRUMS		TYPE III		TYPE A		TYPE C		BOARDS		SIGNS
CATEGORY	STAGE	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY
0010	DI MDOOK DD		40	0.450	0	100		000	40				4.4	550
0010	RIMROCK RD		49	2450	2	100	4	200	13	650			11	550
0010	USH 12 STAGE 1		23	115	1	5	2	10	14	70	2	10	11	55
0010	USH 12 STAGE 2		142	852	4	24	8	48	41	246	3	18	19	114
0010	USH 12 STAGE 3		232	1624	8	56	16	112	56	392	6	42	32	224
0010	USH 12 STAGE 4		117	702	2	12	4	24	42	252	3	18	18	108
0010	USH 12 STAGE 5		23	115	1	5	2	10	14	70	2	10	11	55
0010	PARK ST STAGE 1		35	385	2	22	4	44	10	110	2	22	12	132
0010	PARK ST STAGE 2		79	790	5	50	10	100	24	240	4	40	31	310
0010	PARK ST STAGE 3		72	792	9	99	18	198	17	187	2	22	26	286
0010	CMSTPP RR STAGE 1		8	96	2	24	4	48	8	96			8	96
0010	CMSTPP RR STAGE 2		8	184	2	46	4	92	8	184			8	184
0010	PROJECT	117												
	TOTAL	117		8105		443		886		2497		182		2114

CATEGORY	STAGE	643. 0910 TRAFFI C CONTROL COVERI NG SI GNS TYPE I EACH	EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643. 2000 TRAFFI C CONTROL DETOUR EACH	T EACH	643. 3000 TRAFFI C CONTROL DETOUR SI GNS DAY	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH LF	SPV. 0060. 01 REPOSITIONING TRAFFIC CONTROL DEVICES FOR LANE CLOSURES EACH
0010	RI MROCK RD		1	7					
0010	USH 12 STAGE 1			, 					5
0010	USH 12 STAGE 2								6
0010	USH 12 STAGE 3								7
0010	USH 12 STAGE 4								6
0010	USH 12 STAGE 5								5
0010	PARK ST STAGE 1		1	7					
0010	PARK ST STAGE 2		1	7					1
0010	PARK ST STAGE 3	1	1	7		101	1111	320	1
0010	CMSTPP RR STAGE 1								
0010	CMSTPP RR STAGE 2								1
0010	PROJECT				1				
-	TOTAL	1	·	28	1	·	1111	320	32

PROJECT NO: 1206-04-66 HWY: USH 12 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

1206-04-66

DESIGN DATA

LIVE LOAD: (TAKEN FROM HSI - 08/05/2015)

DESIGN LOADING; HS-20 INVENTORY RATING; HS-22 OPERATIONAL RATING; HS-37

MAXIMUM STANDARD PERMIT VEHICLE LOAD = 250 KIPS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. THE COLOR OF THE FINISH EPOXY TOP COAT SHALL BE CITY OF MADISON MEDIUM GRAY, FEDERAL STANDARD COLOR # 36373.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

TRAFFIC VOLUME

U.S.H. 12/18 EB & WB A.D.T. = 122,600 (2014) R.D.S. = 60 MPH

U.S.H. 14 WB - U.S.H. 151 NB A.D.T. = 20,800 (2014) R.D.S. = 35 MPH

BID ITEM NUMBER

51**7.**1800.S

517.4500.S

51**7.**6001.S

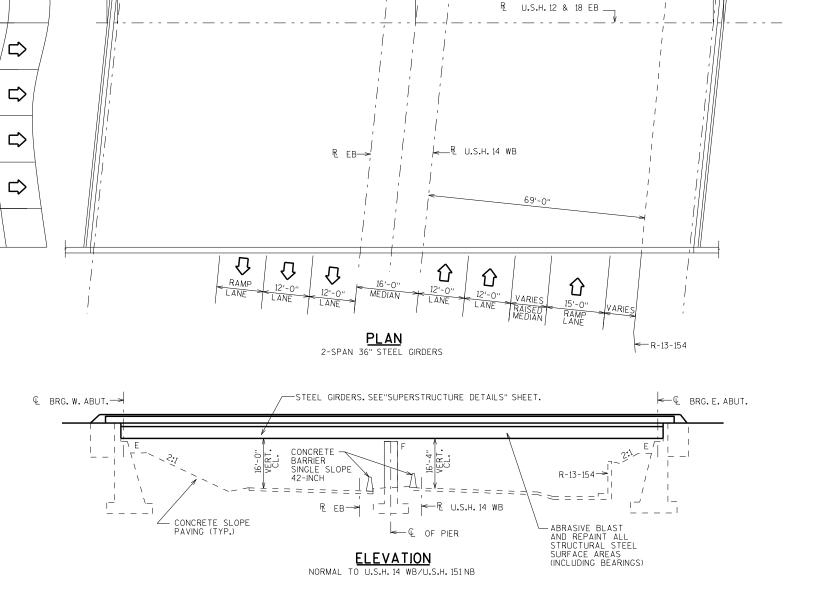
TOTAL ESTIMATED QUANTITIES

BID ITEMS

NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-13-16

STRUCTURE REPAINTING RECYCLED ABRASIVE B-13-16

PORTABLE DECONTAMINATION FACILTY



UNITS

LS

EACH

TOTALS

1

159'-41/2" BACK TO BACK OF ABUTMENTS

SKEW TYP.

└──Û PIER

77'-0"

SPAN 2

2'-81/4"

−Q BRG.E.ABUT.

77'-0"

SPAN 1

€ U.S.H. 12 & 18 —

2'-81/4"

← € BRG. W. ABUT.

STRUCTURE DESIGN CONTACTS:

RUTH COISMAN (608) 261-8205 LAURA SHADEWALD (608) 267-9592

LIST OF DRAWINGS

1. STRUCTURE REPAINTING
2. CROSS SECTION DETAILS
3. SUPERSTRUCTURE DETAILS



STRUCTURE B-13-16

U.S.H. 12/18	EB OVER U.	S.H. 14 WB/U.	S.H. 151 NB
COUNTY	DANE	TOWN/CITY/VILI	MADISON
DESIGN SPEC.	REHABILITA	TION N/A	
DESIGNED BY RAC	DESIGN CK'D. LLS	DRAWN BY MJH	PLANS RAC

STRUCTURE REPAINTING

SHEET 1 OF 3

STATE PROJECT NUMBER 1206-04-66 71'-6" 12'-0" 12'-0" LANE LANE SHLD. 7" DECK W/ CONC.OVERLAY 0.02% W21X62 BTWN.GIRS. 10 THRU 18 (TYP.) W21X55 BTWN. GIRS. 18 THRU 20 (TYP.) W21X62 BTWN. GIRS. 20 AND 21 (21) (TYP.) <u>IN SPAN</u> <u>IN SPAN</u> <u>IN SPAN</u> 6'-21/2" 6'-21/2" 6'-21/2" 5'-0" 4'-0" 6'-0" 3' -10¹/2'' 70'-10" 8 NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-13-16 MJH PLANS RAC

CROSS SECTION THRU ROADWAY LOOKING EAST

LANE

- 36" STEEL GIRDERS (TYP.)

6'-21/2"

_0.02%

6'-21/2"

CROSS SECTION SHEET 2 DETAILS

B-13-191 B-13-16

€ U.S.H 12 & 18—>

SHLD.

12'-0"

6'-0"

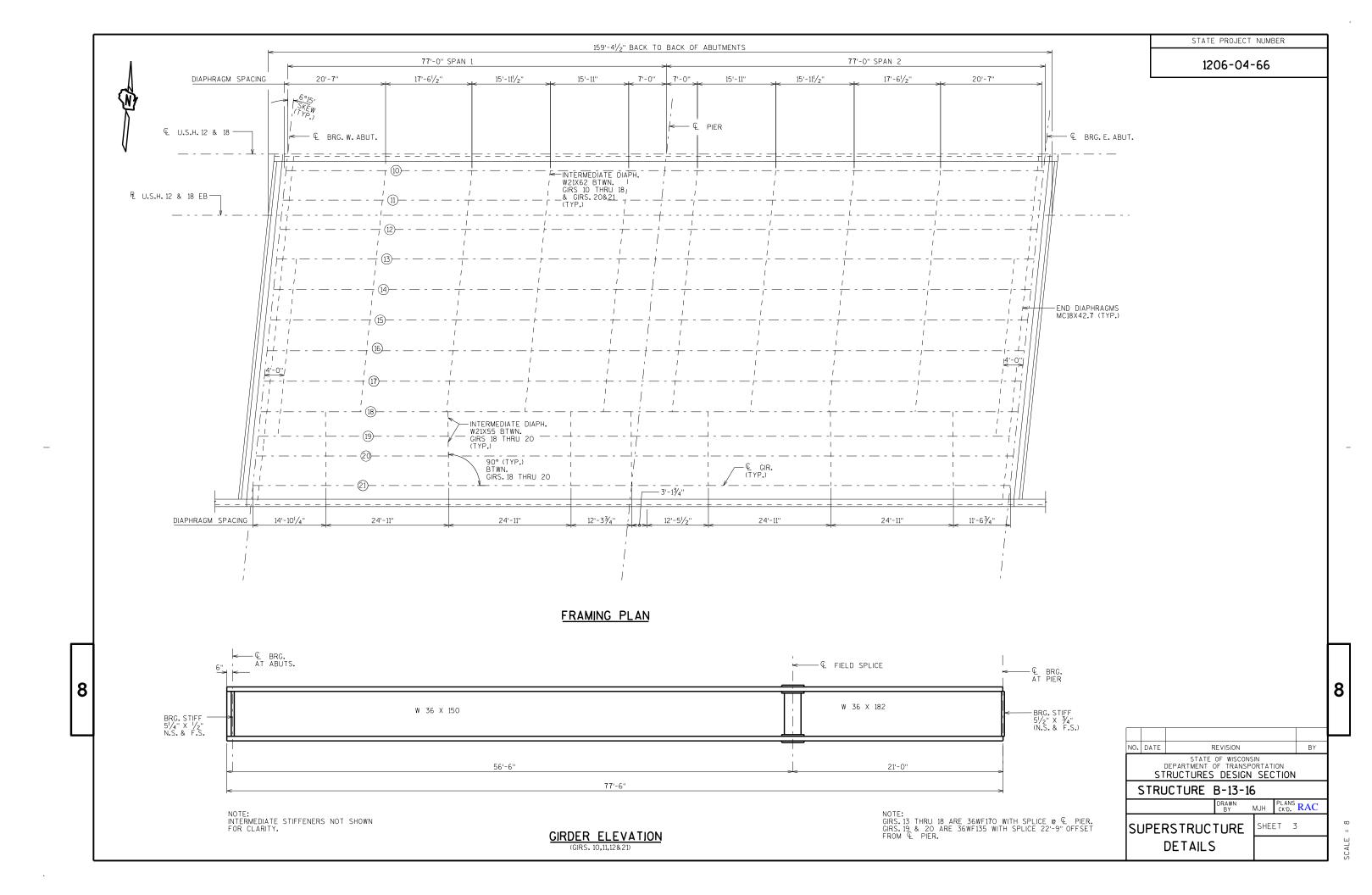
LANE

MC18X42.7 10 THRU 21 (TYP.)

AT ABUTS.

6'-0"

6'-0"



1206-04-66

DESIGN DATA

LIVE LOAD: (TAKEN FROM HSI - 08/06/2015) DESIGN LOADING ; HS-20 INVENTORY RATING; HS-17

OPERATIONAL RATING; HS-28
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 230 KIPS.

GENERAL NOTES

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THE COLOR OF THE FINISH EPOXY TOP COAT SHALL BE CITY OF MADISON MEDIUM GRAY, FEDERAL STANDARD COLOR # 36373.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

U.S.H. 12 & 18 EB & WB U.S.H. 14 WB - U.S.H. 151 NB

TRAFFIC VOLUME

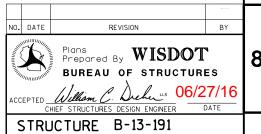
A.D.T. = 122,600 (2014) R.D.S. = 60 MPH A.D.T. = 20,800 (2014) R.D.S. = 35 MPH



RUTH COISMAN (608) 261-8205 LAURA SHADEWALD (608) 267-9592

LIST OF DRAWINGS

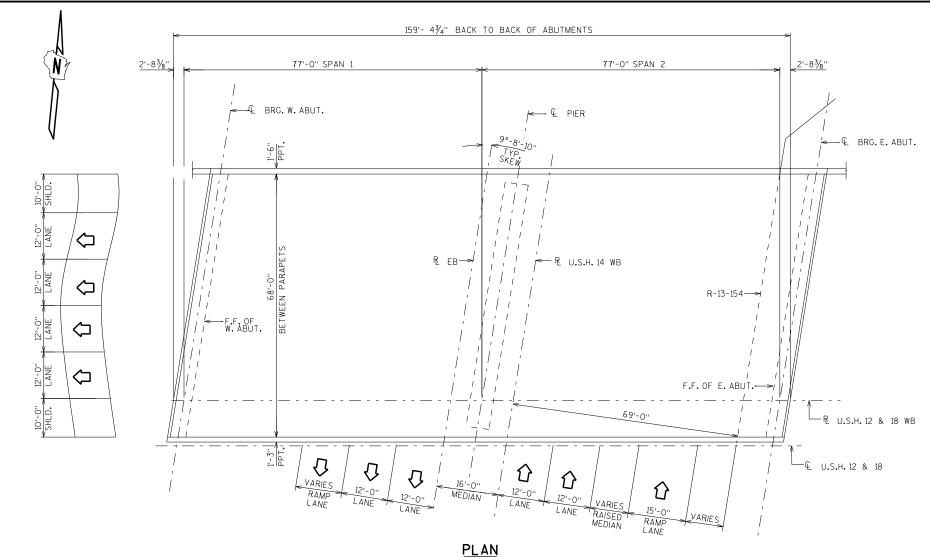
1. STRUCTURE REPAINTING
2. CROSS SECTION DETAILS
3. SUPERSTRUCTURE DETAILS



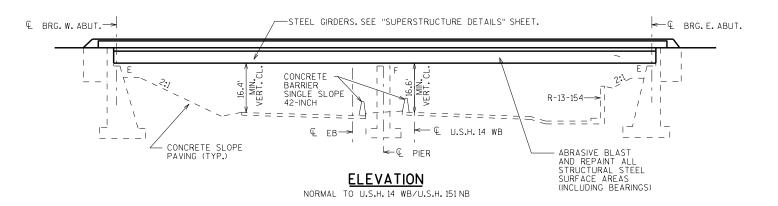
U.S.H. 12/18 WB OVER U.S.H. 14 WB/U.S.H. 151 NB

TOWN/CITY/VILLAGE MADISON DANE DESIGN SPEC. REHABILITION N/A
DESIGNED DESIGN
BY RAC CK'D. LLS BY MJH CK'D. RAC SHEET 1 OF 3 **STRUCTURE**

REPAINTING

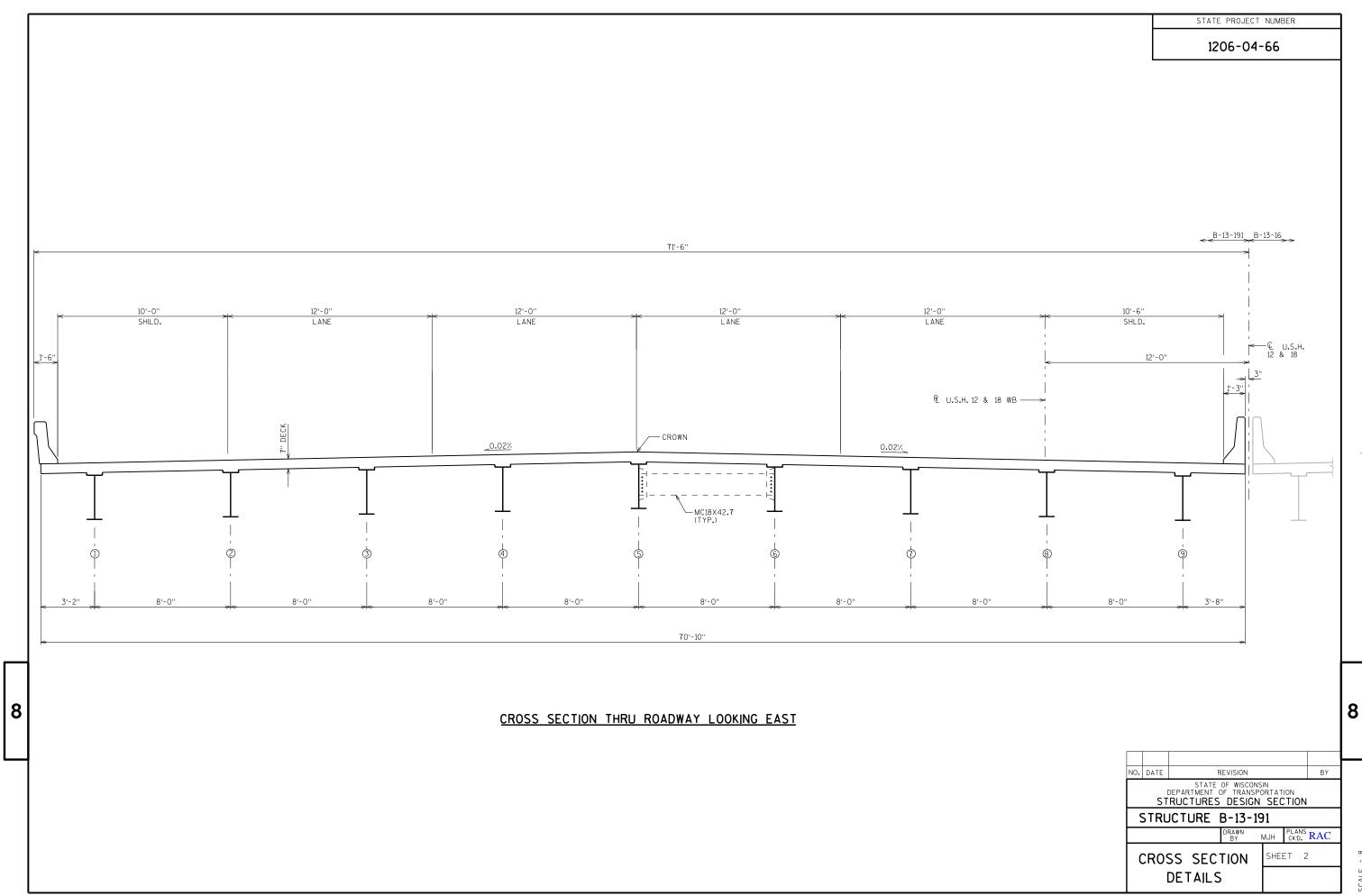


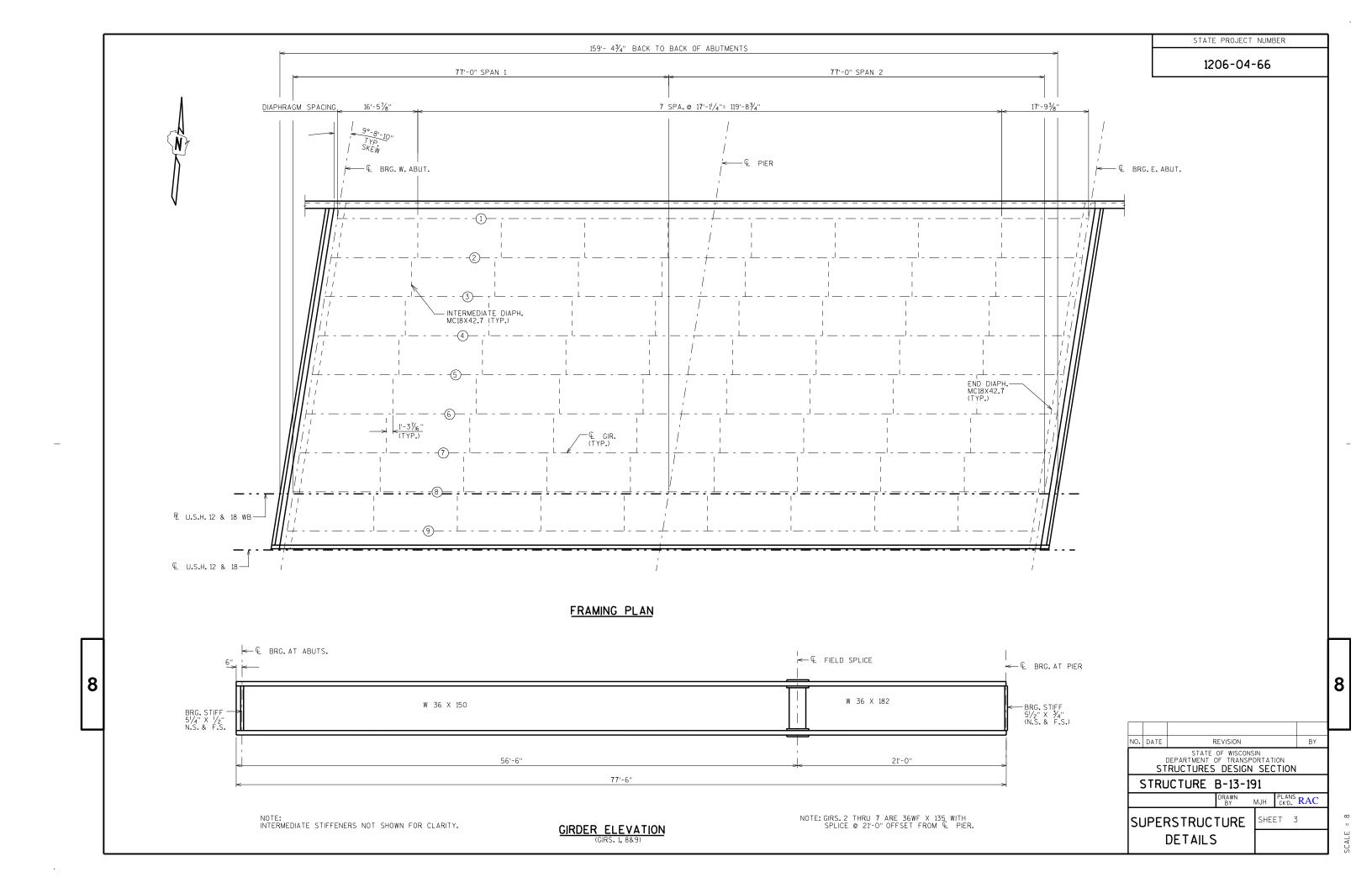
PLAN 2-SPAN 36" STEEL GIRDERS

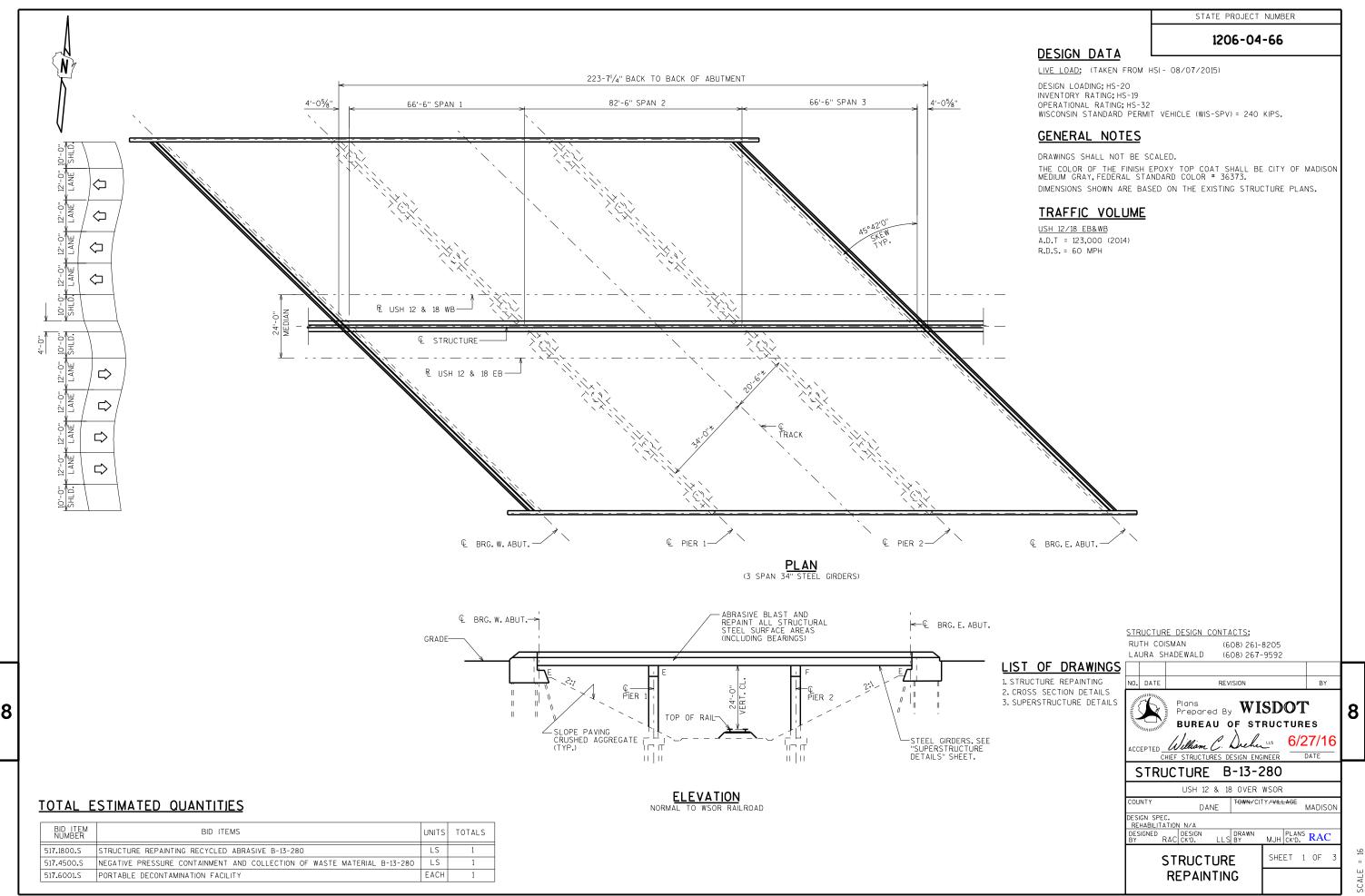


TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNITS	TOTALS
51 7. 1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-13-191	LS	1
51 7. 4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-13-191	LS	1
51 7. 6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1

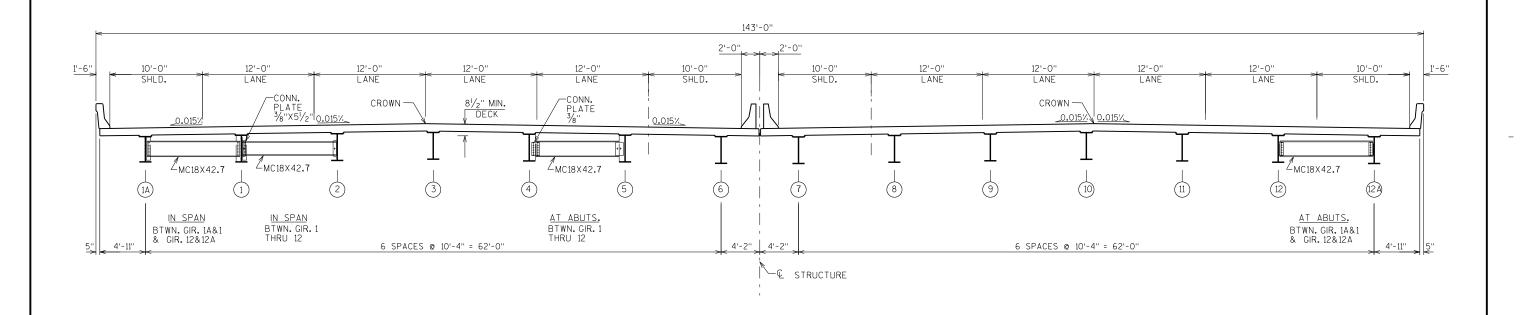






STATE PROJECT NUMBER

1206-04-66



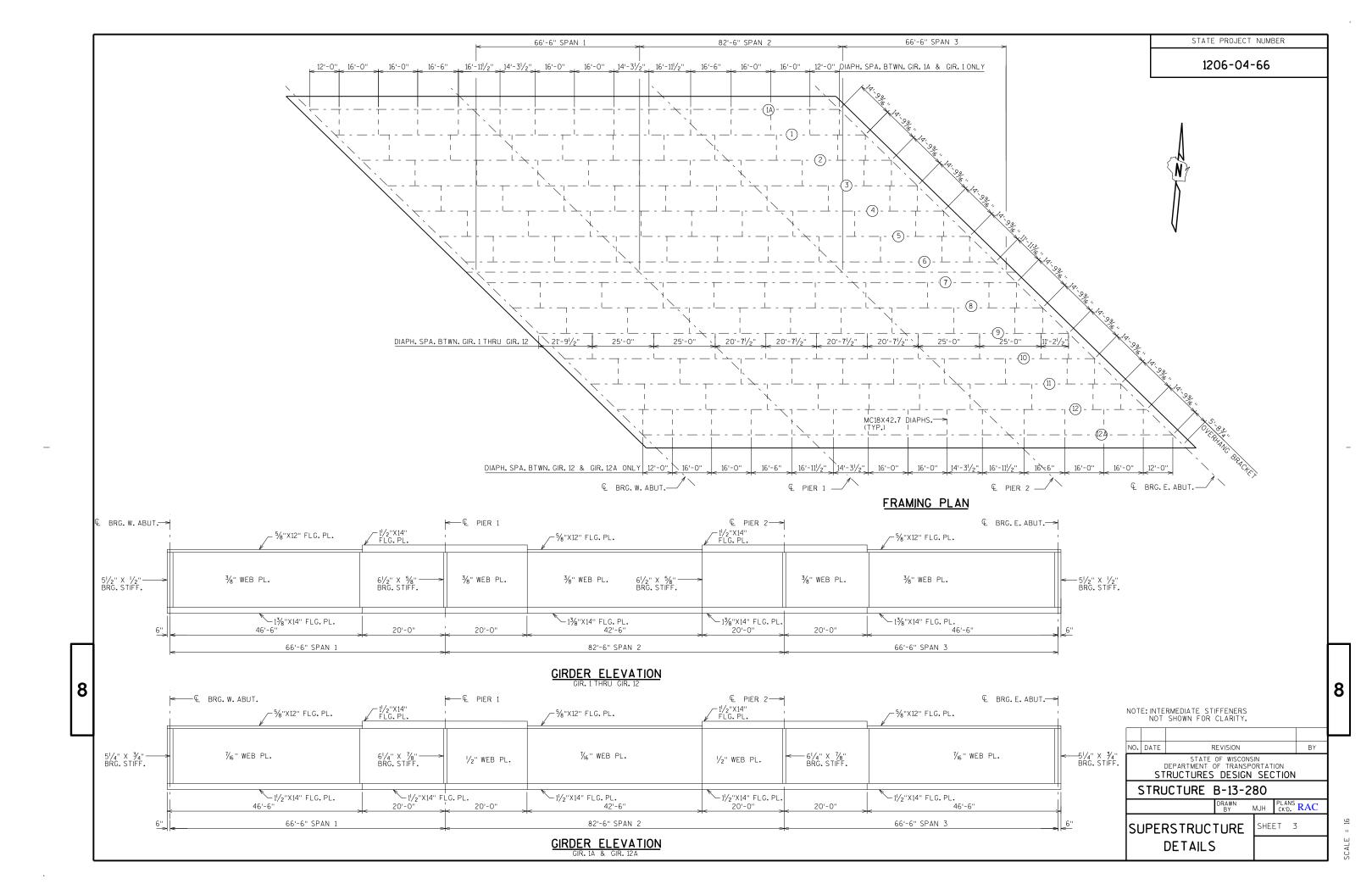
CROSS SECTION THRU ROADWAY LOOKING EAST

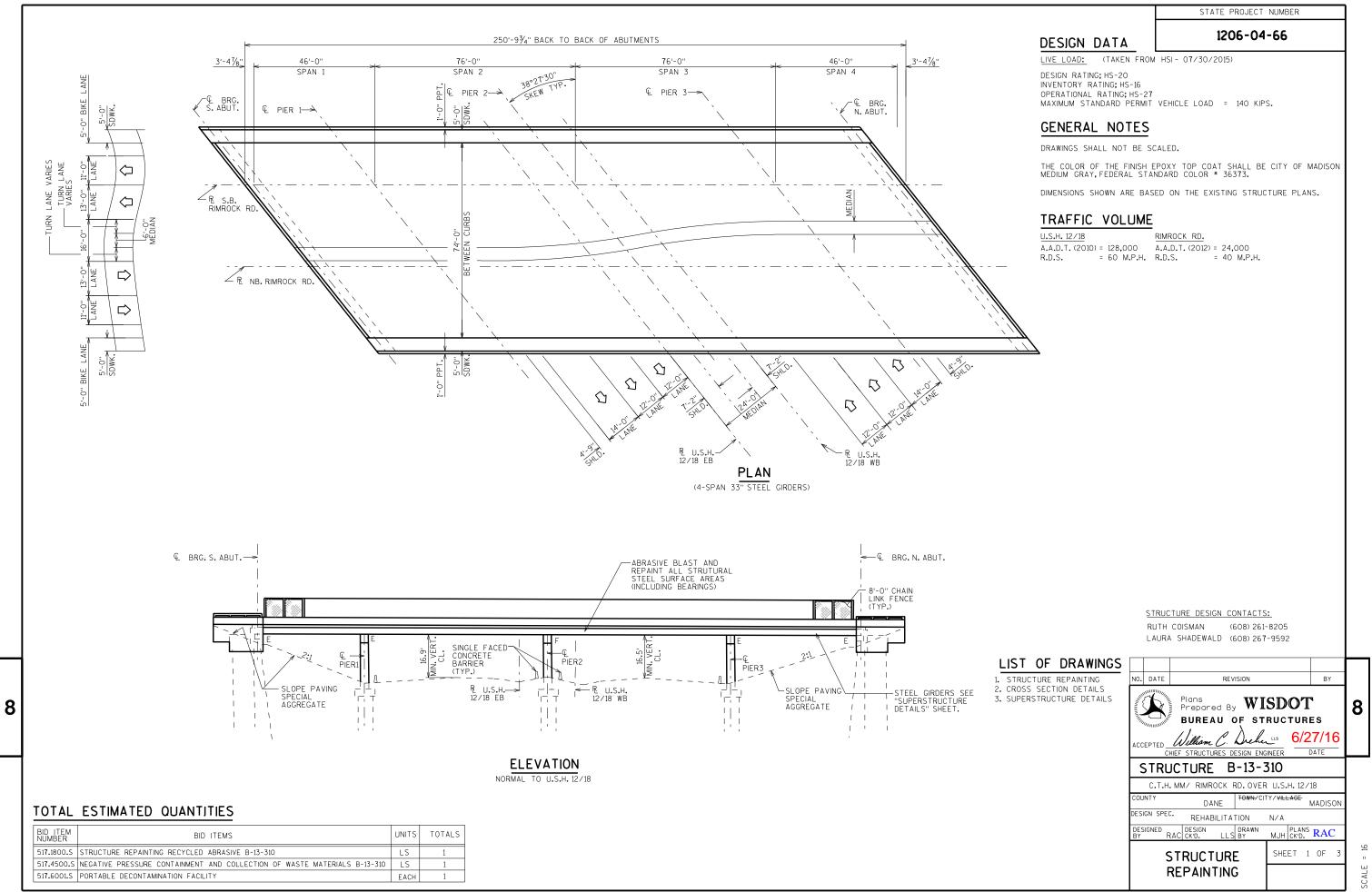
8

NO.	DATE	F	REVISION					
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION								
[[STRUCTURE B-13-280							
			DRAWN BY	MJH	PLANS CK'D.	RAC		
	CROS	SS SEC	SHEI	ET 2	2			
	ĺ	DETAILS						

SCALE = E

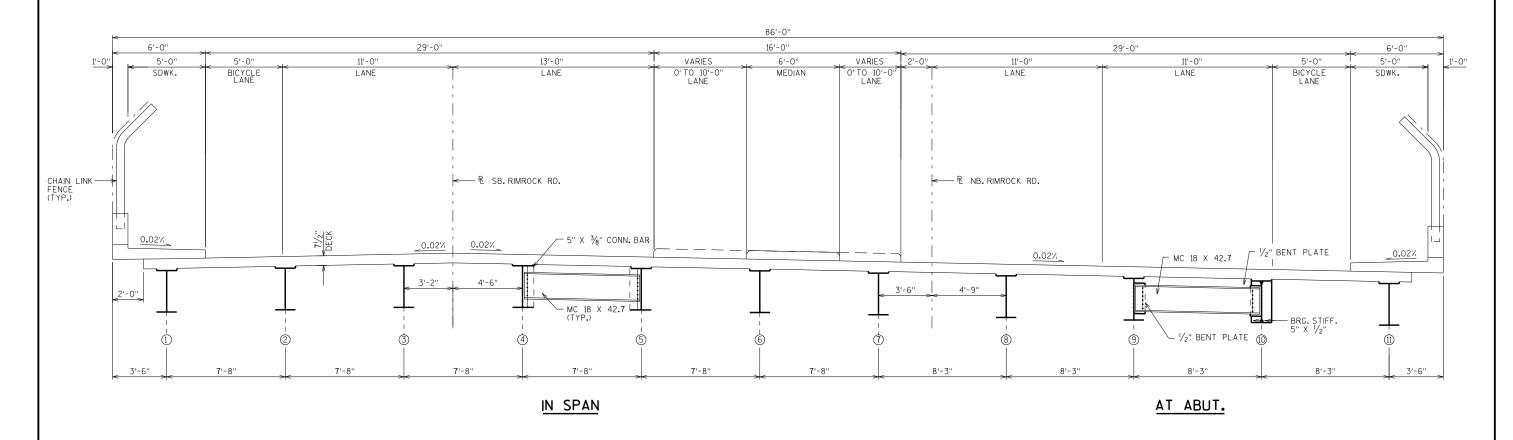
8





STATE PROJECT NUMBER

1206-04-66



CROSS SECTION THRU ROADWAY

8

NO. DATE REVISION BY

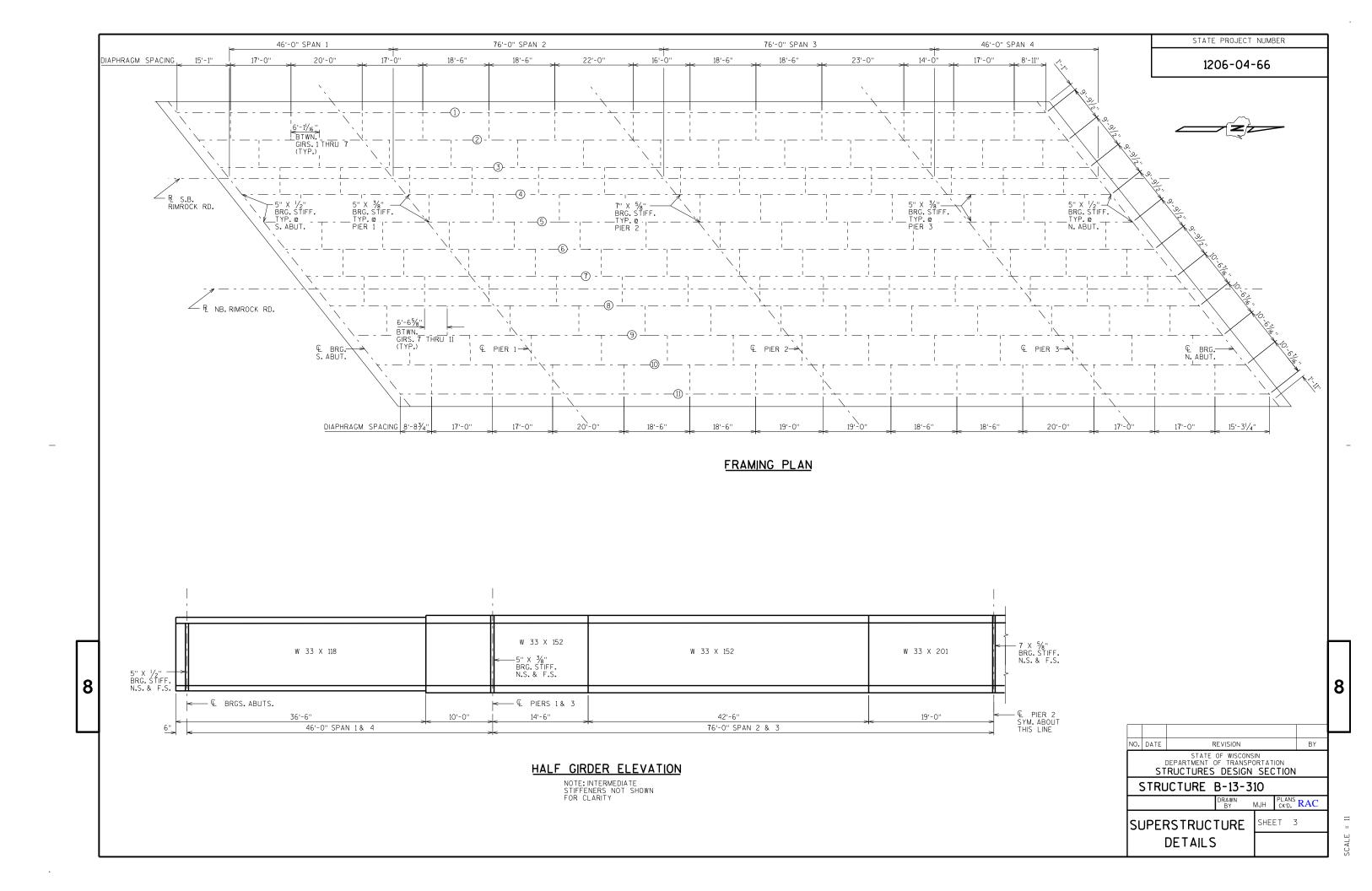
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-310

DRAWN
BY
MJH
PLANS RAC
CROSS SECTION
DETAILS

SCALE = 3

8



Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov