MAD

Miscellaneous Quantities

Standard Detail Drawings

Structure Plans

38

PROJECT ID: WITH: 1011-02-65

010-01-62

Section No.

Section No.

TOTAL SHEETS =

D.D.

ESALS

WOODED OR SHRUB AREA

JUNE 2021 STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details Estimate of Quantities

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1010-01-62 1011-02-65

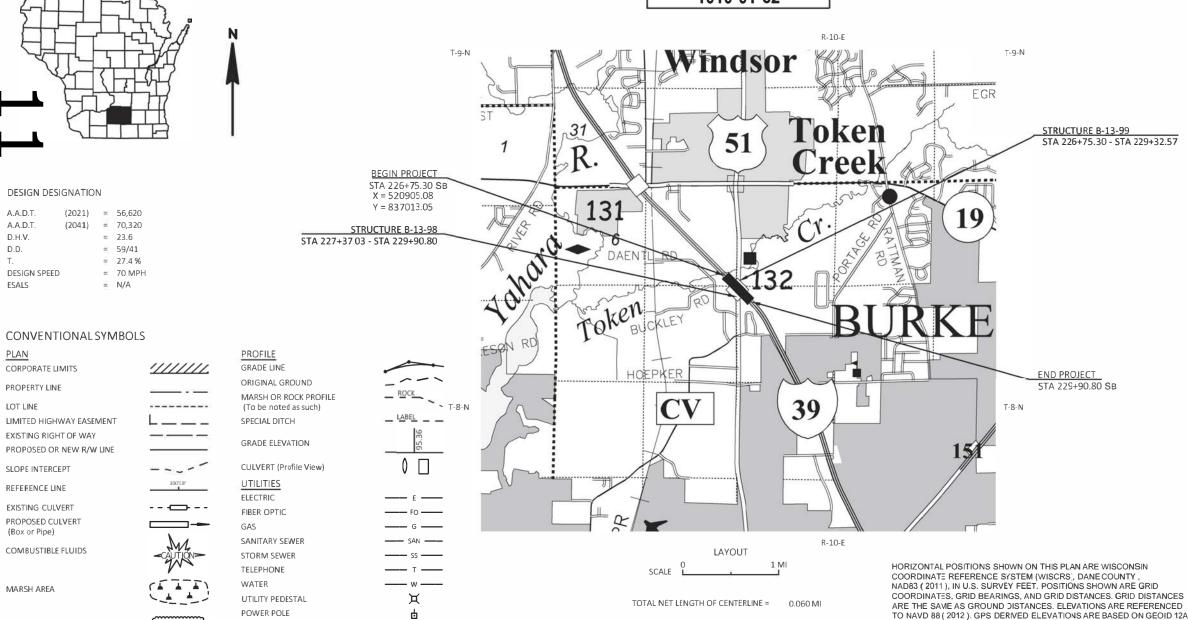
PLAN OF PROPOSED IMPROVEMENT

MADISON - PORTAGE

USH 51 BRIDGES B-13-98 & B-13-99

IH 39 DANE COUNTY

STATE PROJECT NUMBER 1010-01-62



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION REPARED BY Designer ADAM SHAW

GREG BRECKA SW REGION BRENDA SCHOENFELD

PROVED FOR THE DEPARTMENT 3/16/21

Ε

Ø

TELEPHONE POLE

SHAW, ADAM M

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THIS 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.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS CONSTRUCTION DETAILS CONSTRUCTION STAGING TRAFFIC CONTROL AND CONSTRUCTION STAGING DETOUR

ABBREVIATIONS

ABUT	ABUTMENT	LT	LEFT
A.D.T.	AVERAGE DAILY TRAFFIC	ML	MATCH LINE
AP	ACCESS POINT	MAX.	MAXIMUM
B.F.	BACK FACE	MIN.	MINIMUM
B.M.	BENCH MARK	NORM.	NORMAL
B.O.P.	BEGIN OF PROJECT	O.H.	OVER HEAD POWER LINE
CL	BACK FACE BENCH MARK BEGIN OF PROJECT CENTER LINE	PT	POINT
CTR.	CENTER	PC	POINT OF CURVATURE
CY	CUBIC YARD	PI	POINT OF INTERSECTION
CP	CULVERT PIPE	PT	POINT OF TANGENCY
C&G	CULVERT PIPE CURB AND GUTTER	PL	PROPERTY LINE
D.H.V.	DESIGN HOURLY VOLUME	PB	PULL BOX
DIA.	DIAMETER	RAD.	RADIUS
DIM.	DIMENSION	RL	REFERENCE LINE
EL	ELEVATION	REQ'D	REQUIRED
EW	END WALL	RT	RIGHT
EBS	EXCAVATION BELOW SUBGRADE	RHF	RIGHT HAND FORWARD
E.O.P.	END OF PROJECT	R/W	RIGHT OF WAY
EXC.	EXCAVATION	STA.	STATION
EXIST	EXISTING	SSPRC	STORM SEWER PIPE
F.F.	FRONT FACE		REINFORCED CONCRETE
FL	FLOW LINE	SE	SUPERELEVATION
HT	HEIGHT	STR.	STRUCTURE
CWT	HUNDREDWEIGHT	TLE	TEMPORARY LIMITED EASEMENT
INL	INLET	TYP.	TYPICAL
INV	INVERT	V.	DESIGN SPEED

UTILITY CONTACTS

ALLIANT ENERGY - ELECTRICITY MARY MONTGOMERY 200 FIRST ST CEDAR RAPIDS, IA 52401 (319) 786-4768 MARYMONTGOMERY@ALLIANTENERGY.COM

AT&T LEGACY - COMMUNICATION LINE KENNETH COLWELL 222 W JACKSON WOODSTOCK, IL 60098 (312) 734-2223 KC1298@ATT.COM

> WILLIAM KOENIG 128 W SUNSET AVE APPLETON, WI 54911 (608) 628-0575 WEKOENIG@ATT.NET

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

MADISON GAS AND ELECTRIC COMPANY - ELECTRICITY JANE ROSSING P.O. BOX 1231 MADISON, WI 53701-1231 (608) 252-7099 WORKPLANS@MGE.COM

MADISON GAS AND ELECTRIC COMPANY - GAS/PETROLEUM JANE ROSSING P.O.BOX 1231 MADISON, WI 53701-1231 (608) 252-7099 WORKPLANS@MGE.COM



REGION CONTACT

GREG BRECKA, P.E. 2101 WRIGHT ST. MADISON, WI 53704 608 516-6524 GREGORY.BRECKA@DOT.WI.GOV **DESIGN CONTACT**

ADAM SHAW 2101 WRIGHT ST. MADISON, WI 53704 608 246-5311 ADAM.SHAW@DOT.WI.GOV

DNR CONTACTS

ERIC HEGGELUND 3911 FISH HATCHERY RD. FITCHBURG, WI 53711 608 275-3301 ERIC.HEGGELUND@WISCONSIN.GOV

HWY: IH 39 SHEET PROJECT NO: 1010-01-62 COUNTY: DANE **GENERAL NOTES**

LAYOUT NAME - 01

C:\USERS\DITAMS\DESKTOP\10100132\SHEETSPLAN\020101-GN.DWG

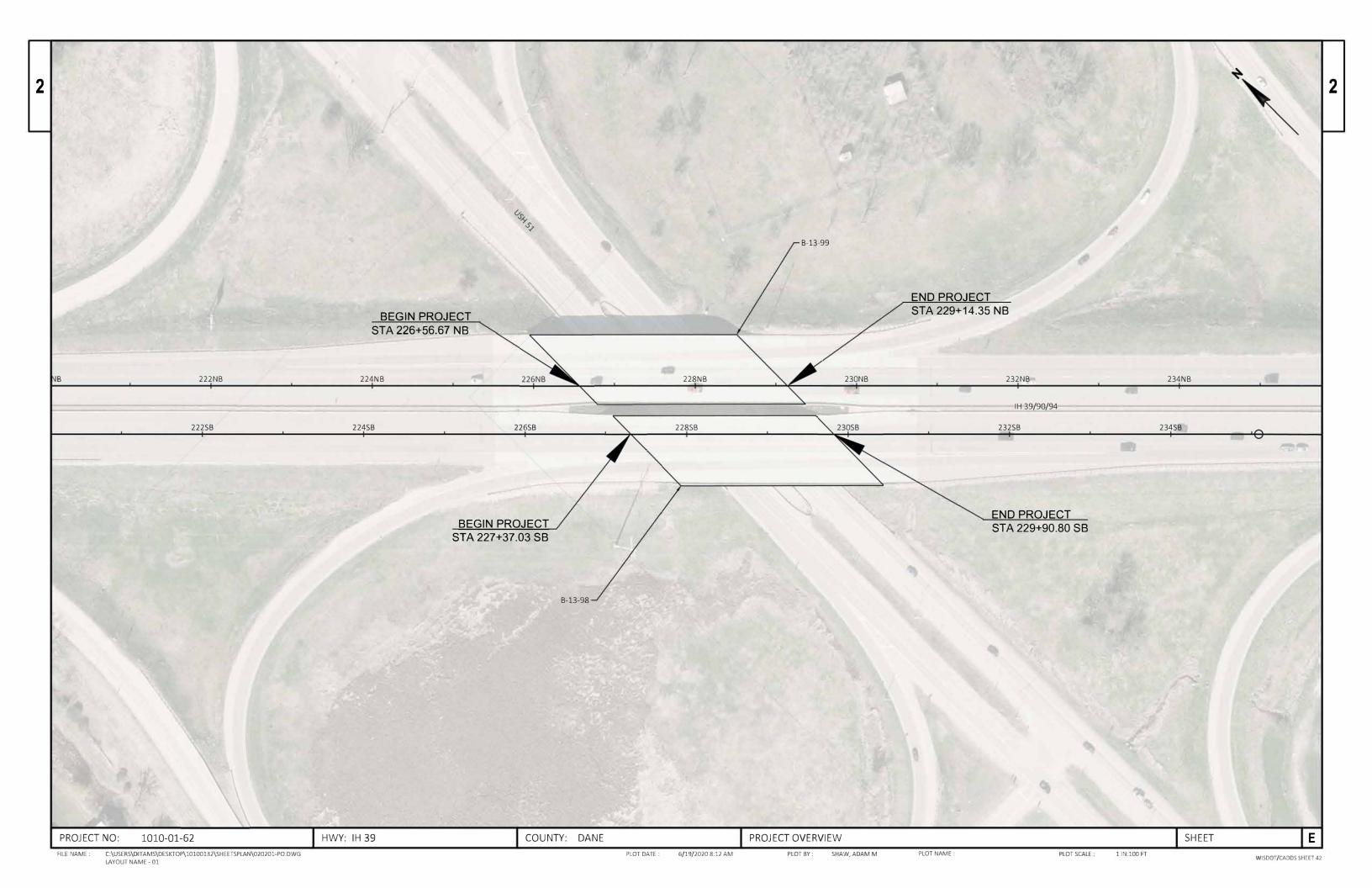
7/31/2020 2:20 AM

SHAW, ADAM M

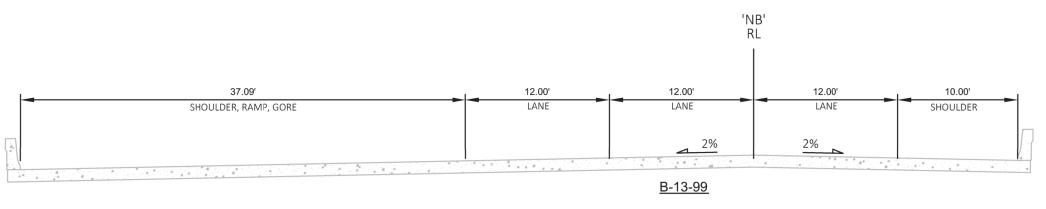
PLOT NAME:

PLOT SCALE :

WISDOT/CADDSSHEET 42

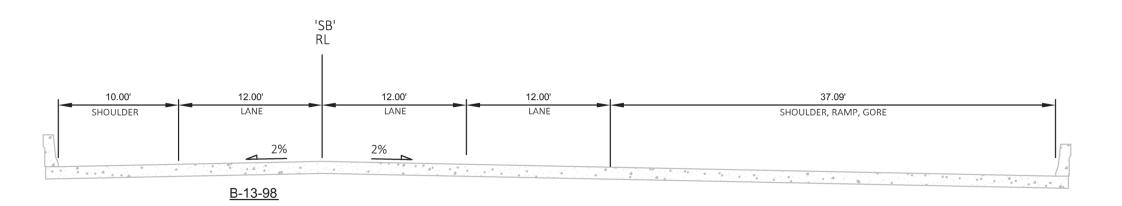






TYPICAL EXISTING SECTION

STA. 226'NB'+75.30 TO STA. 229'NB'+32.57



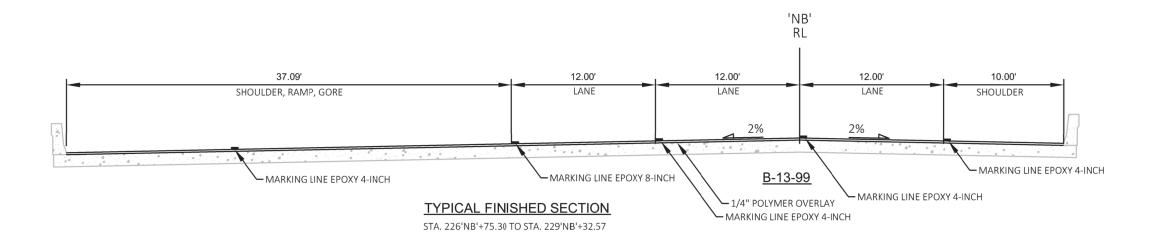
TYPICAL EXISTING SECTION

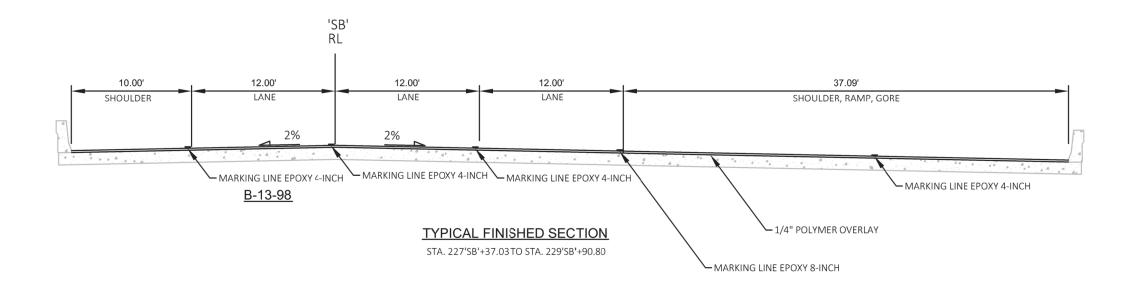
STA. 227'SB'+37.03TO STA. 229'SB'+90.80

PROJECT NO: 1010-01-62	HWY: IH 39	COUNTY: DANE	TYPICAL SECTIONS	SHEET	E

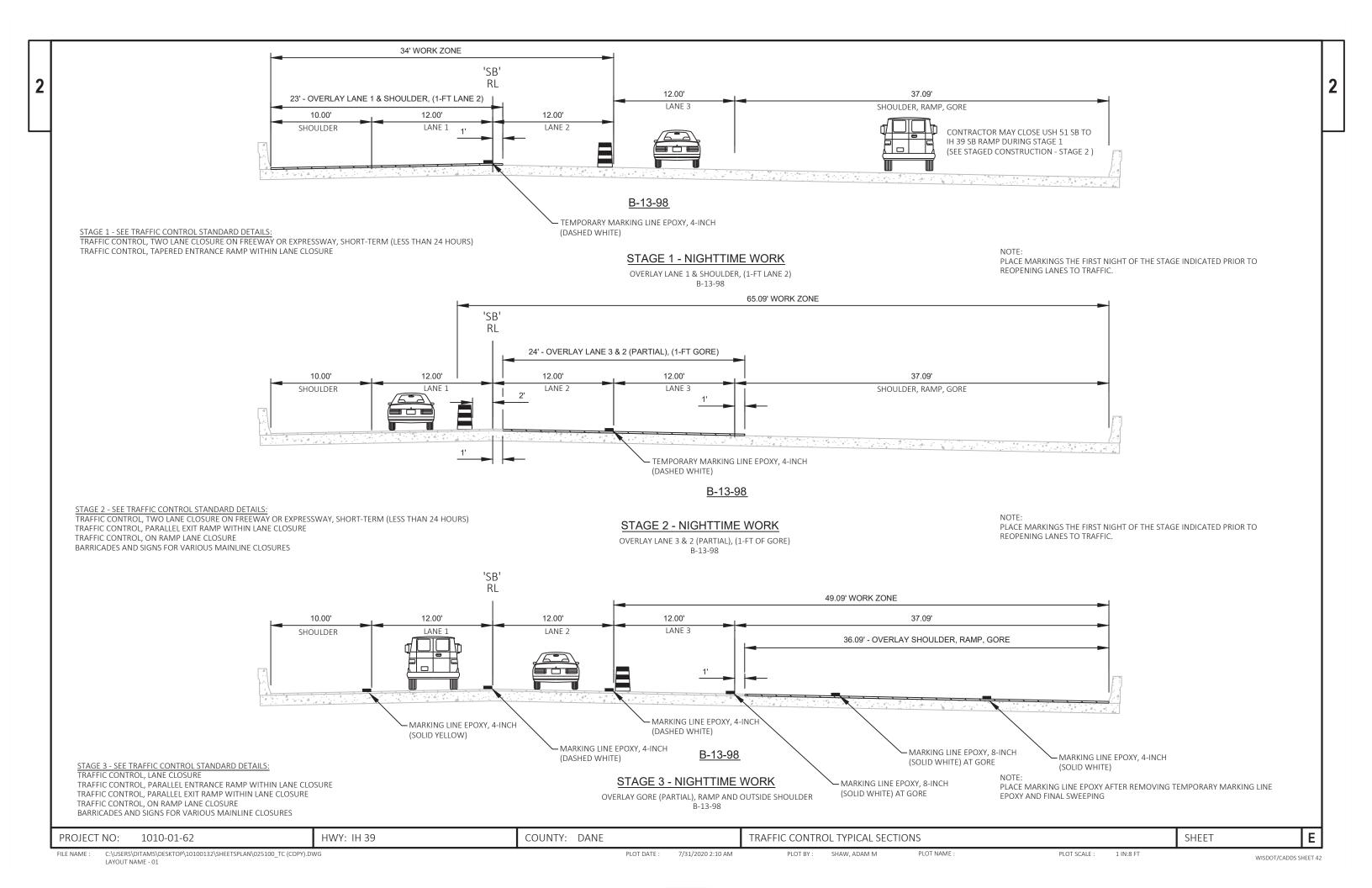
2

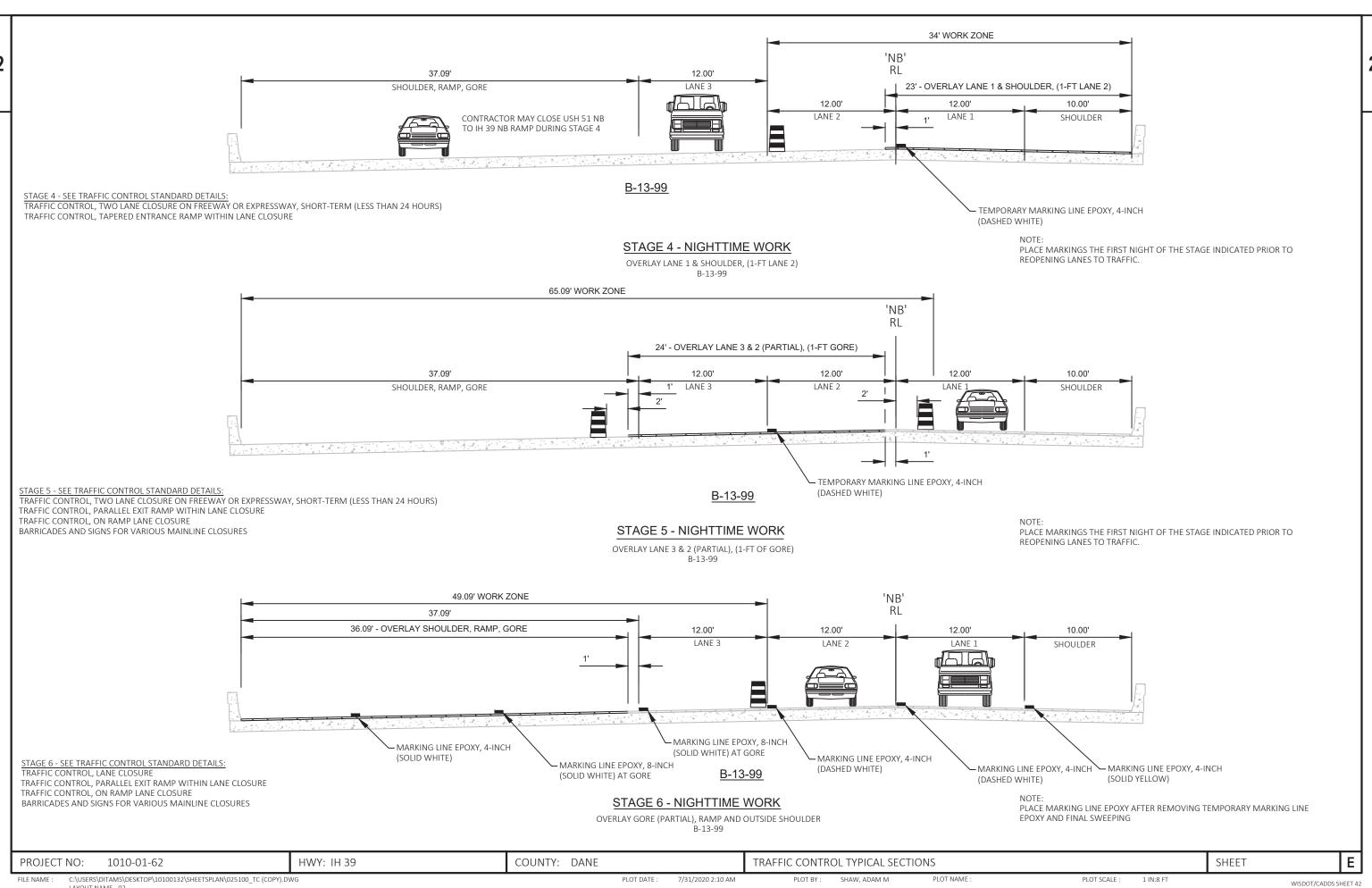
|2

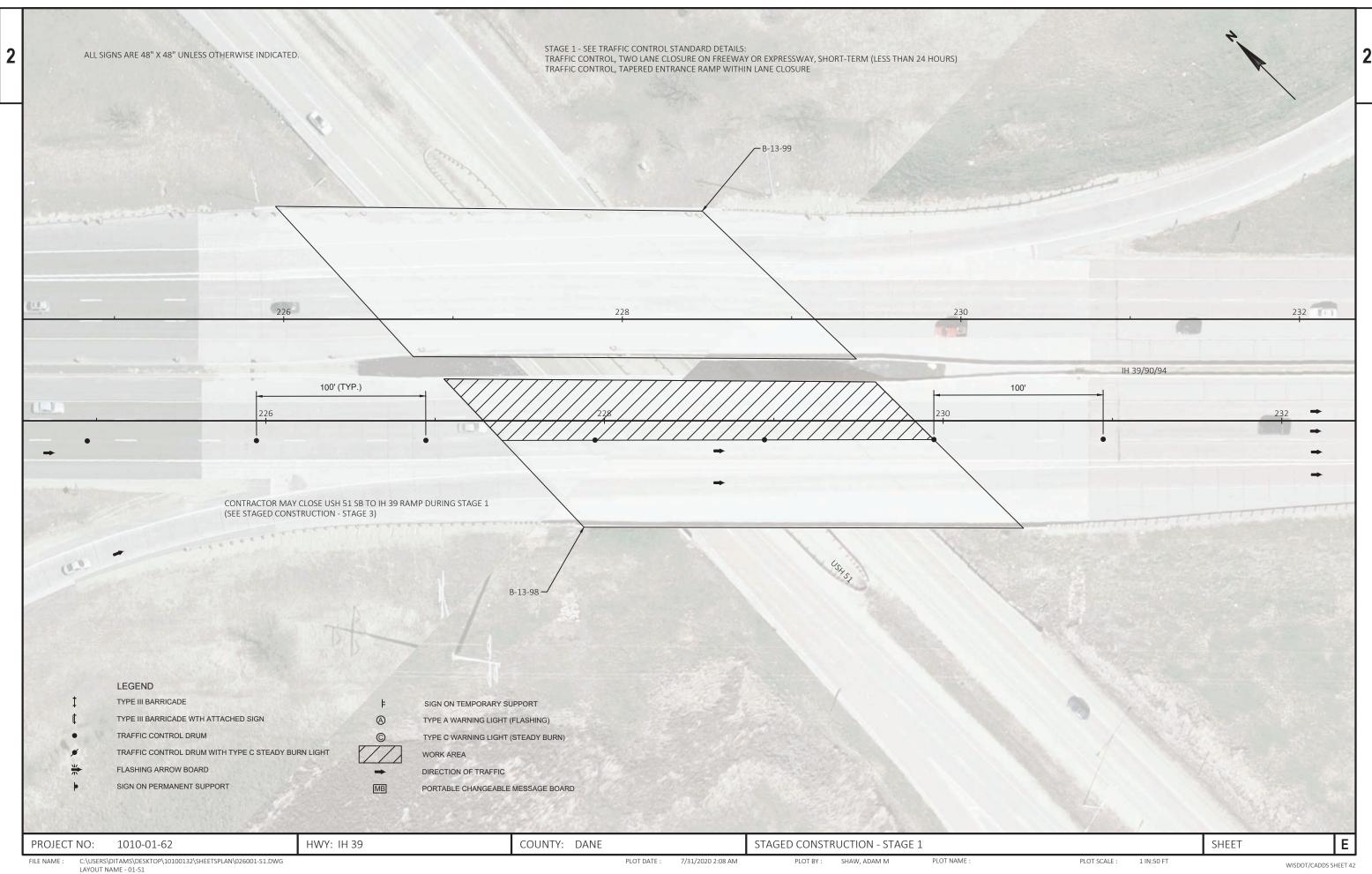


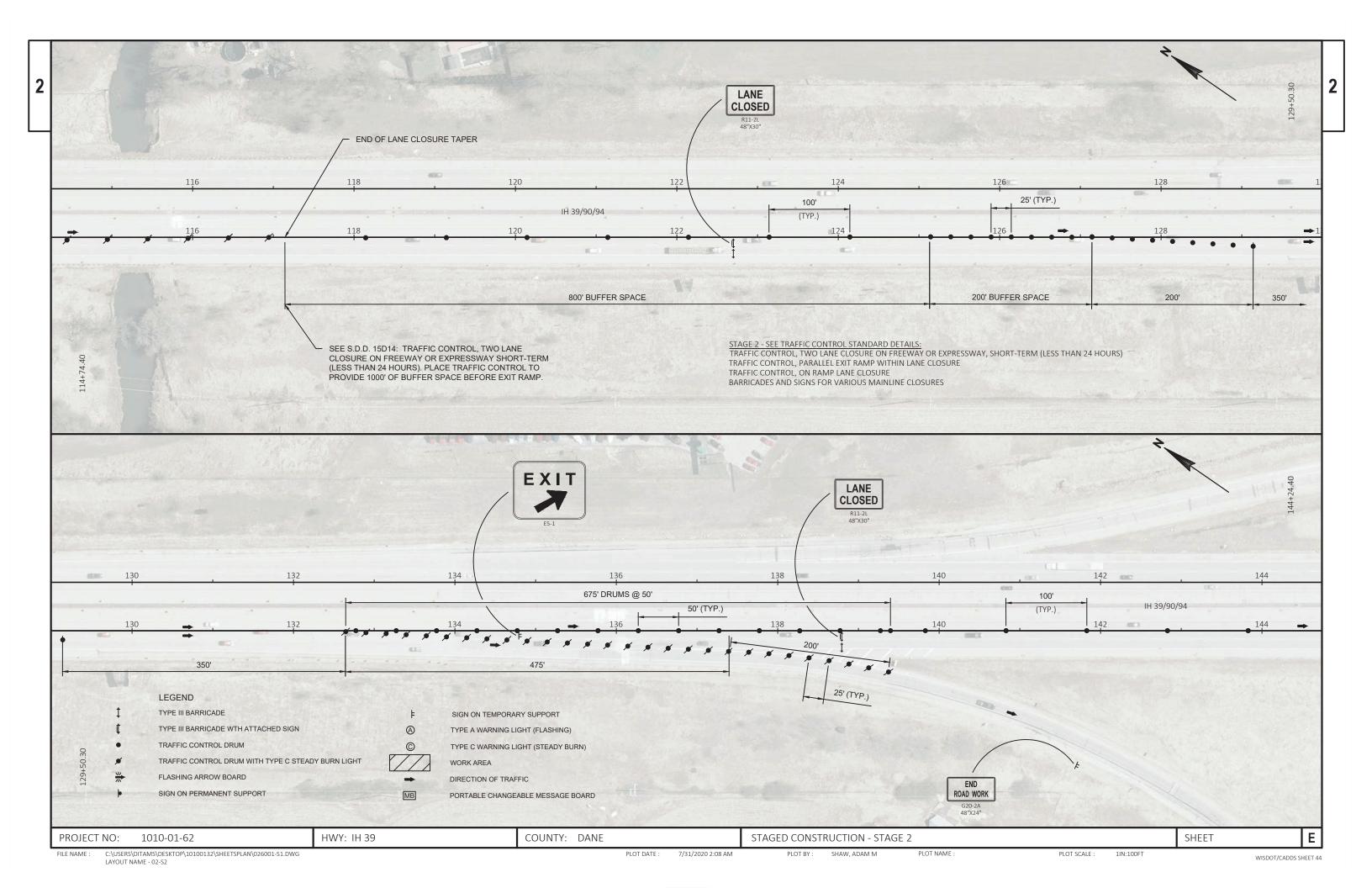


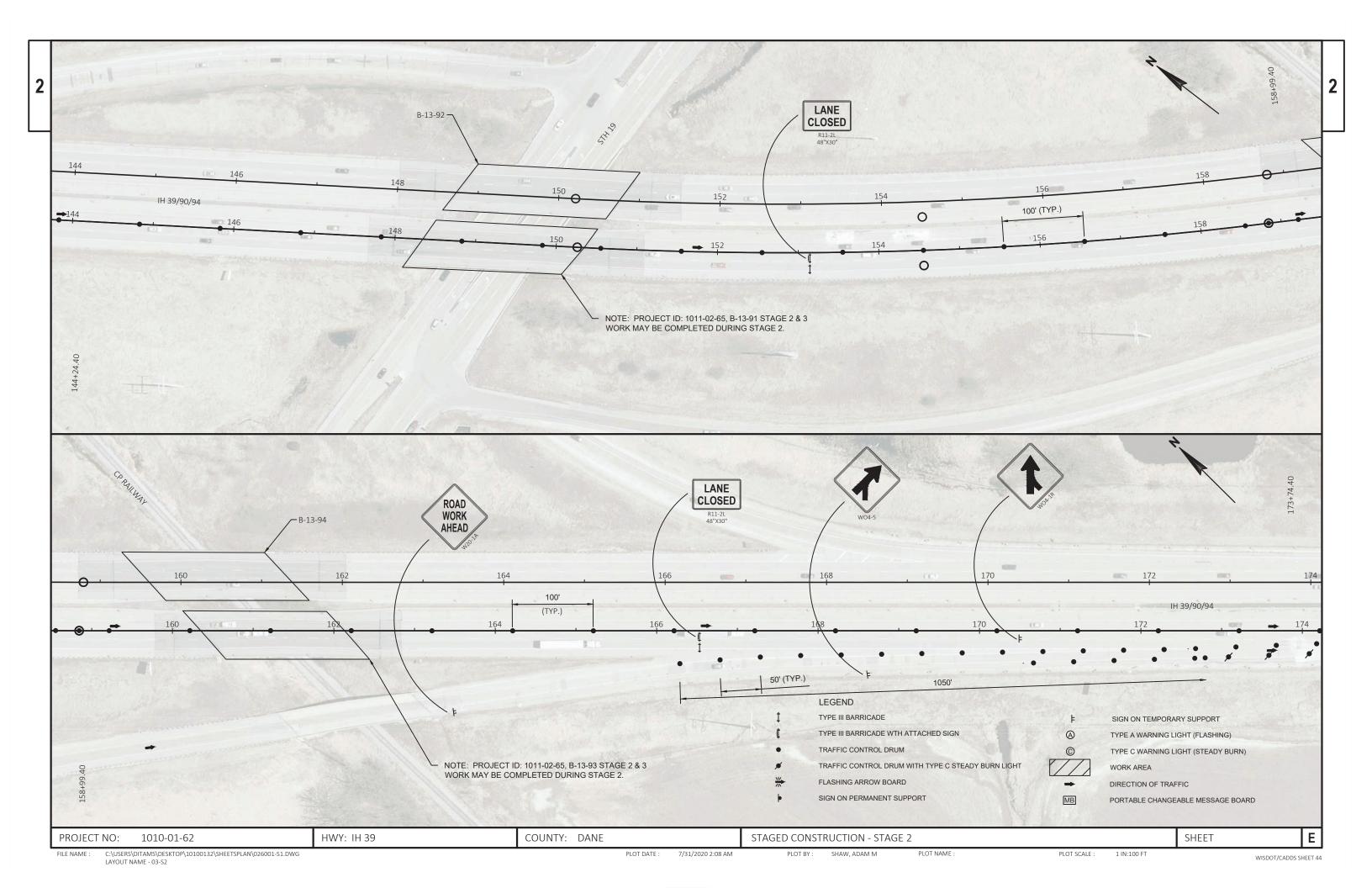
PROJECT NO: 1010-01-62 HWY: IH 39 COUNTY: DANE TYPICAL SECTIONS SHEET **E**

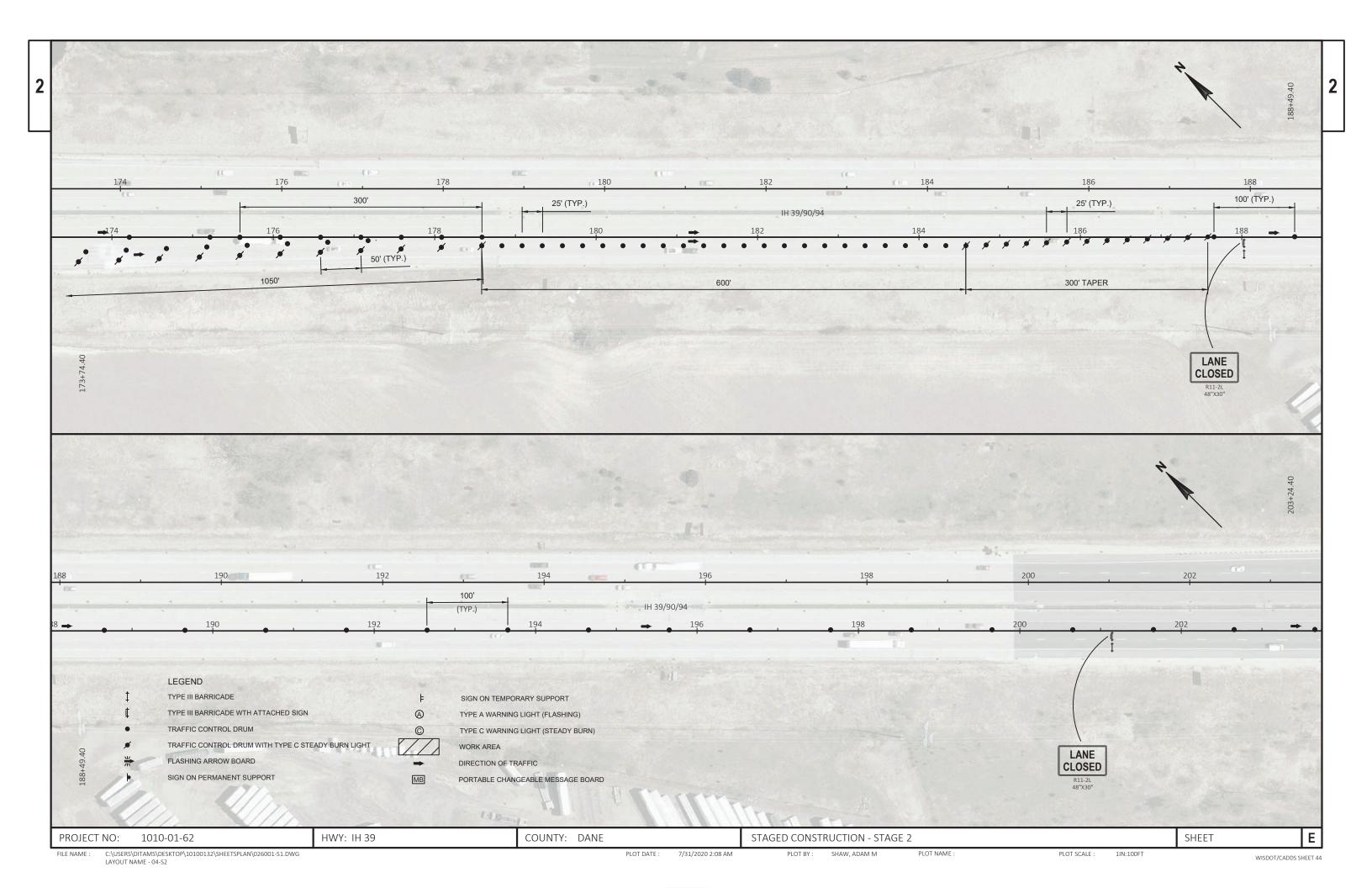


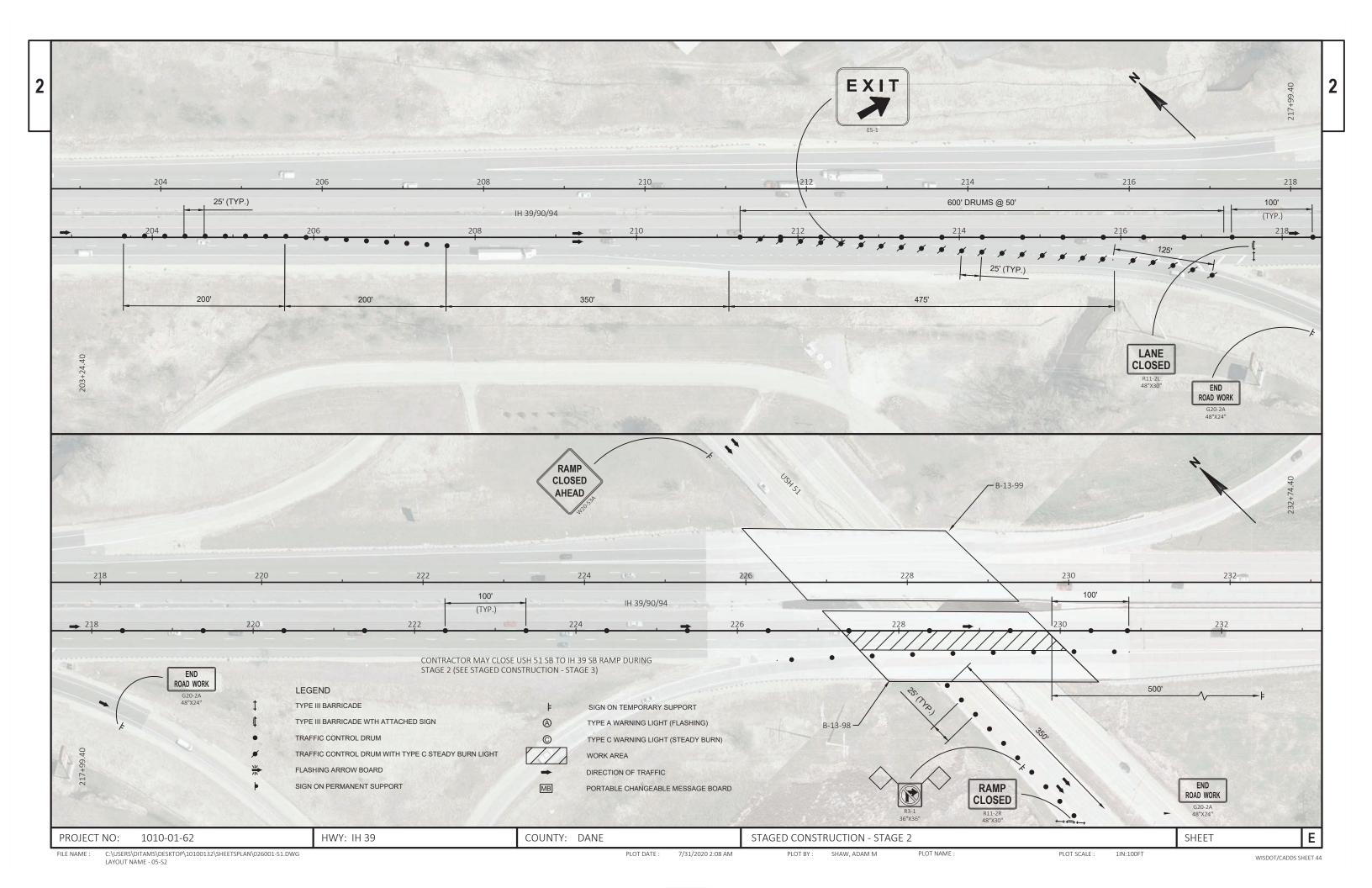


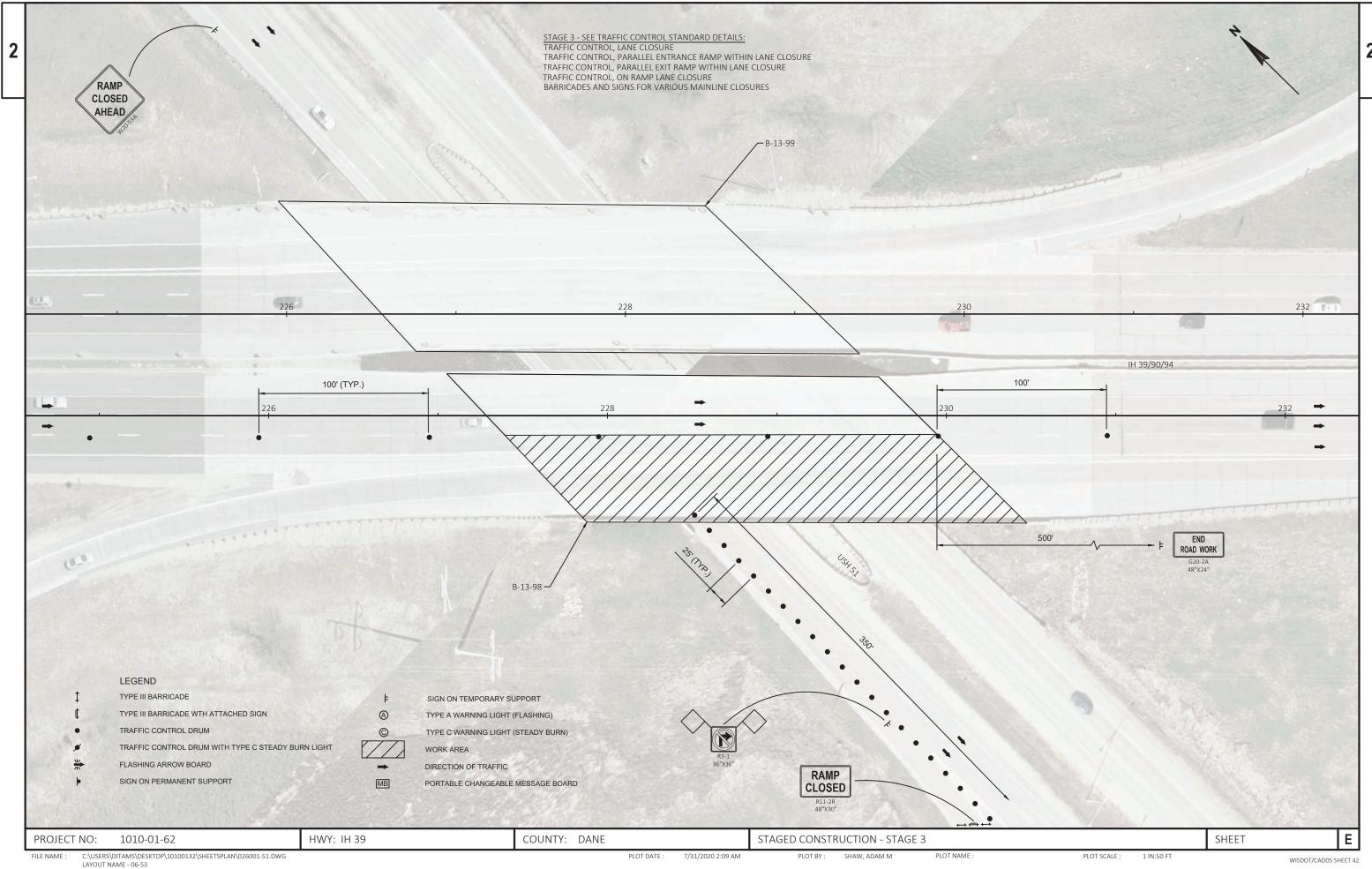


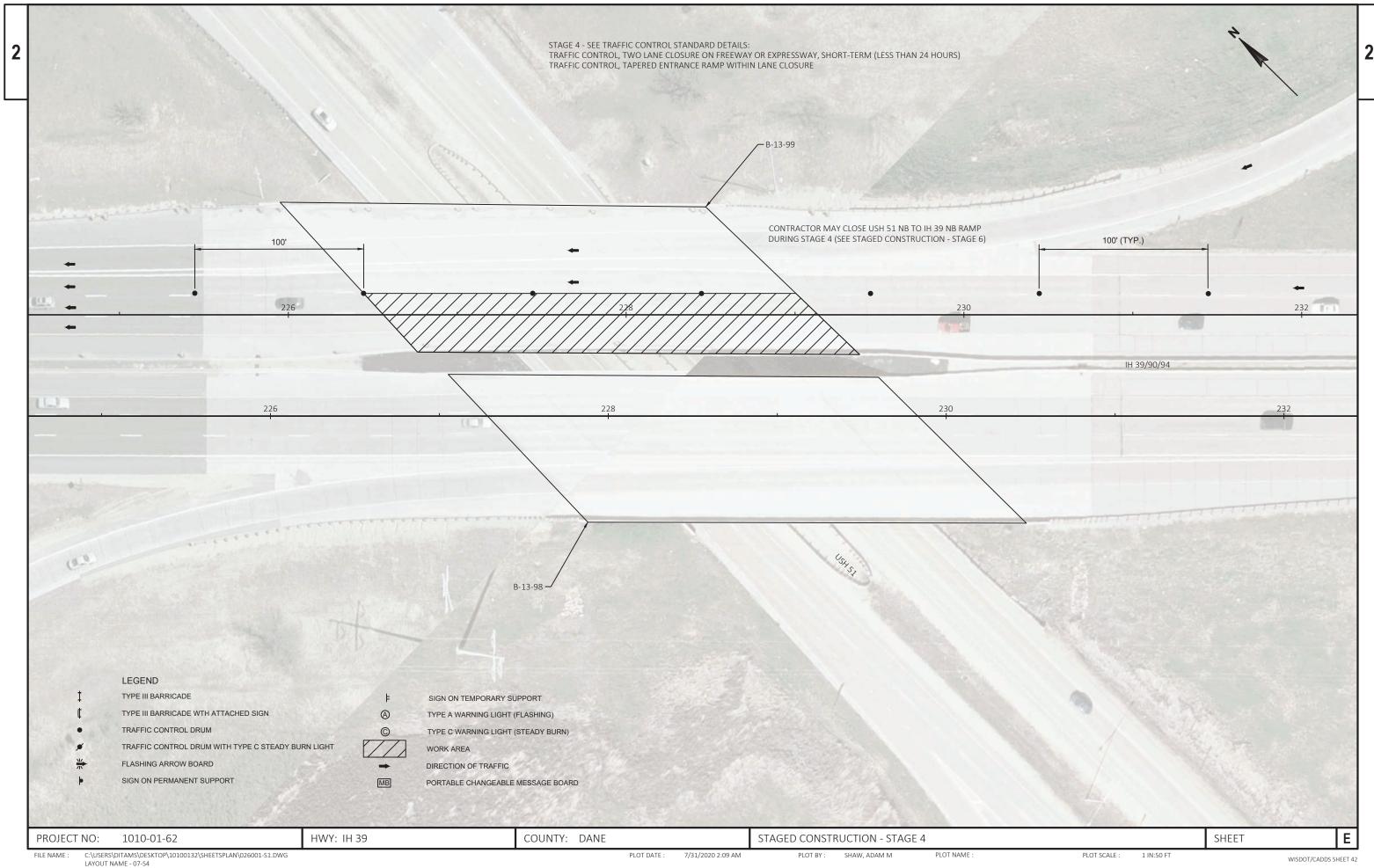


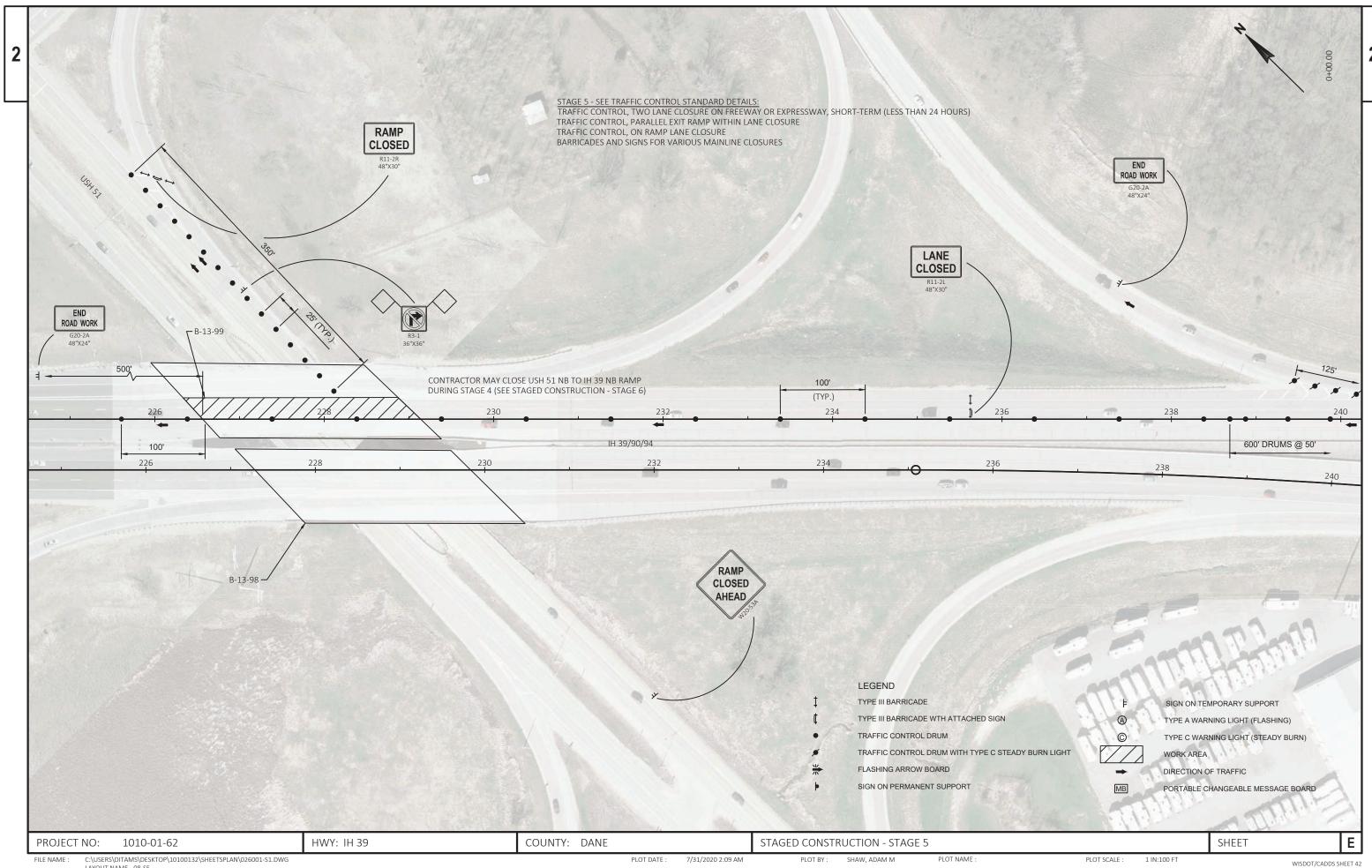




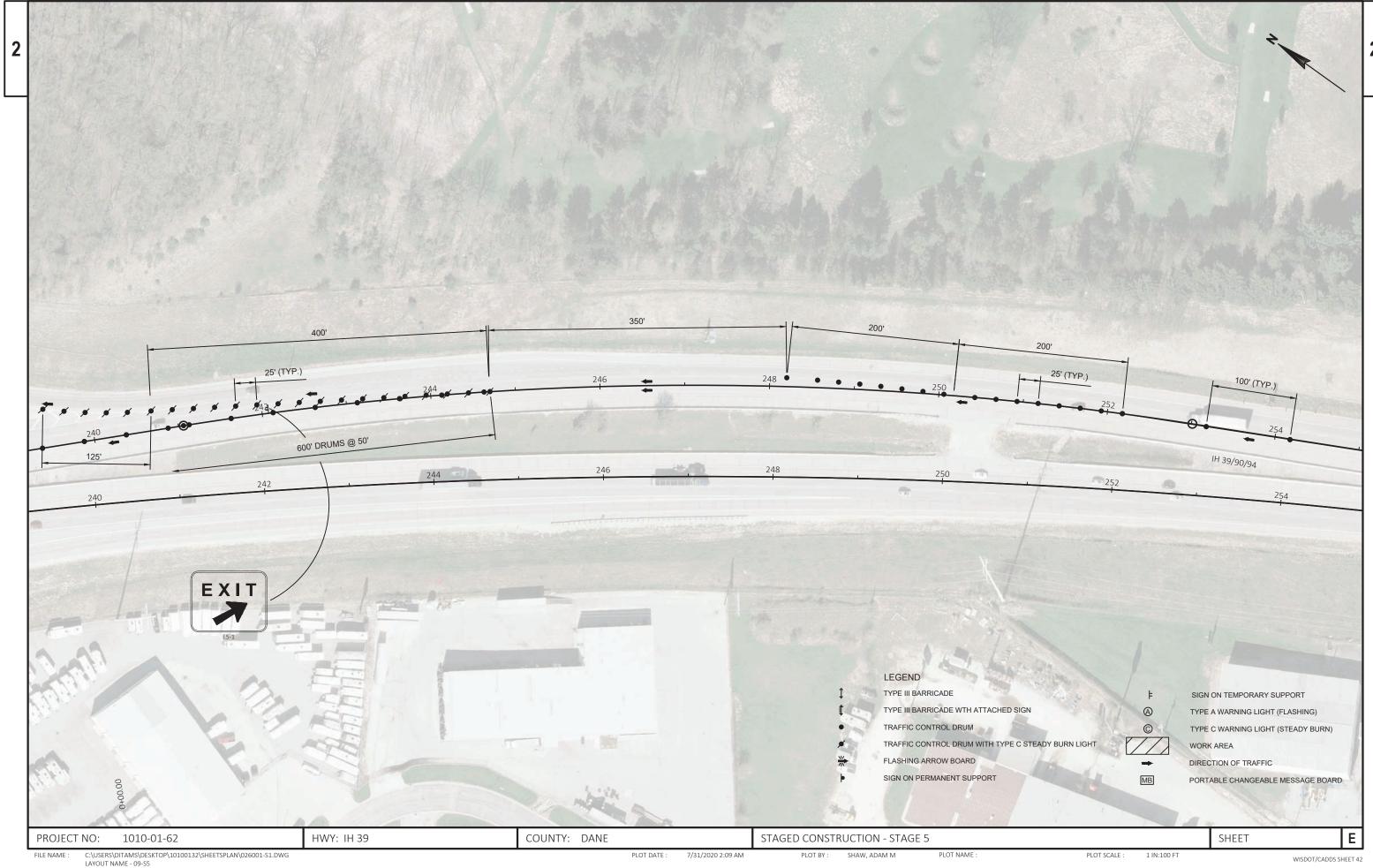




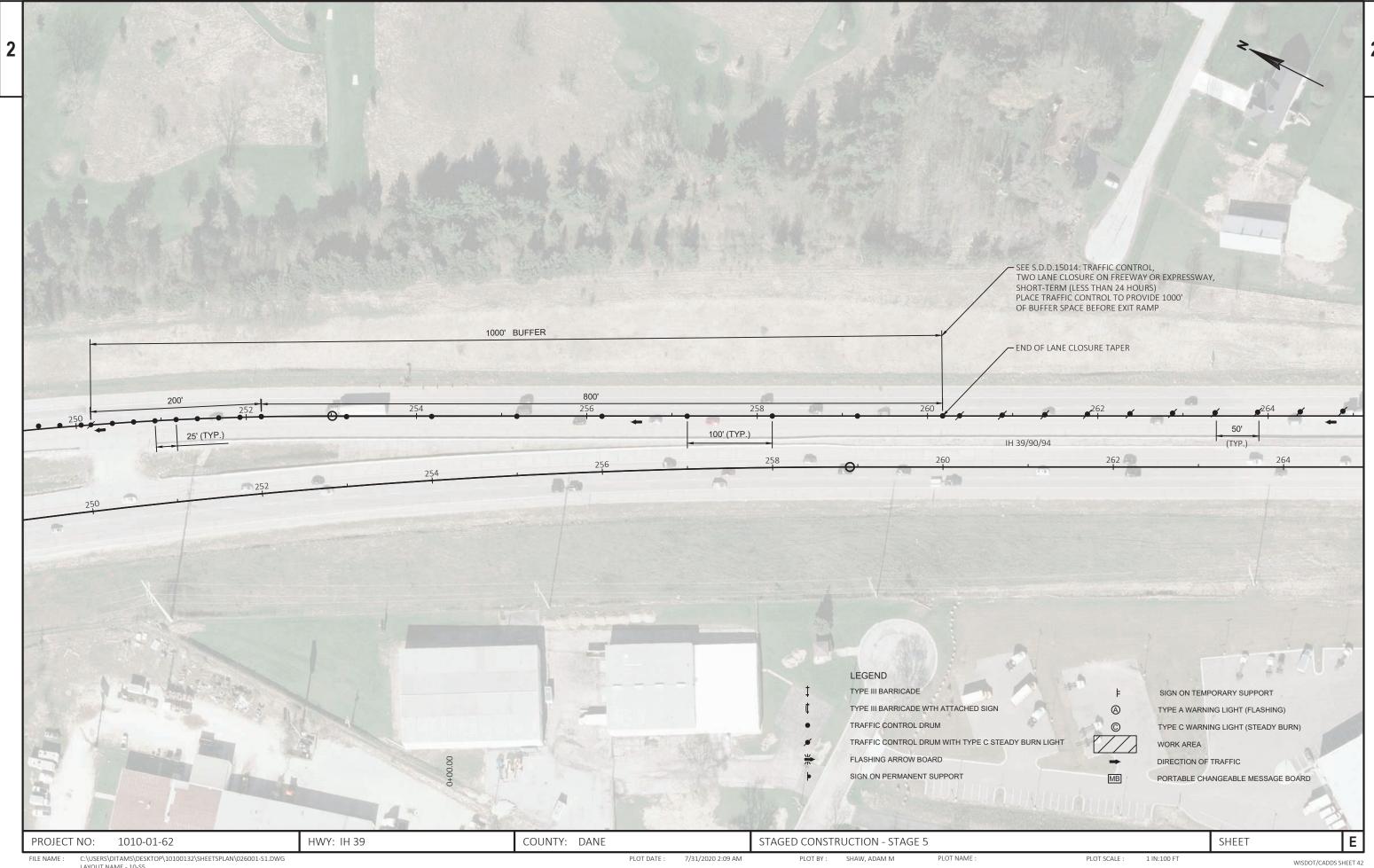


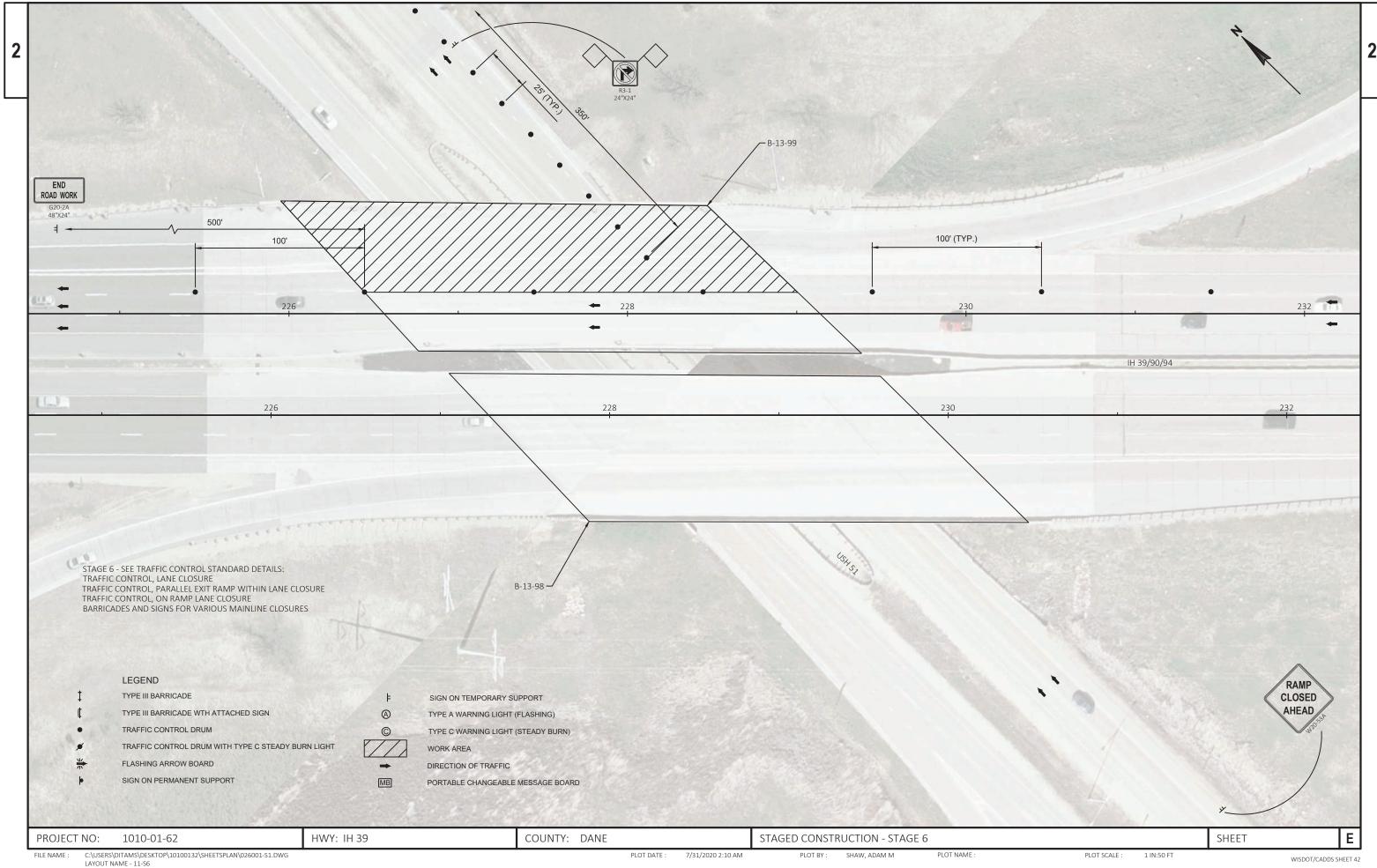


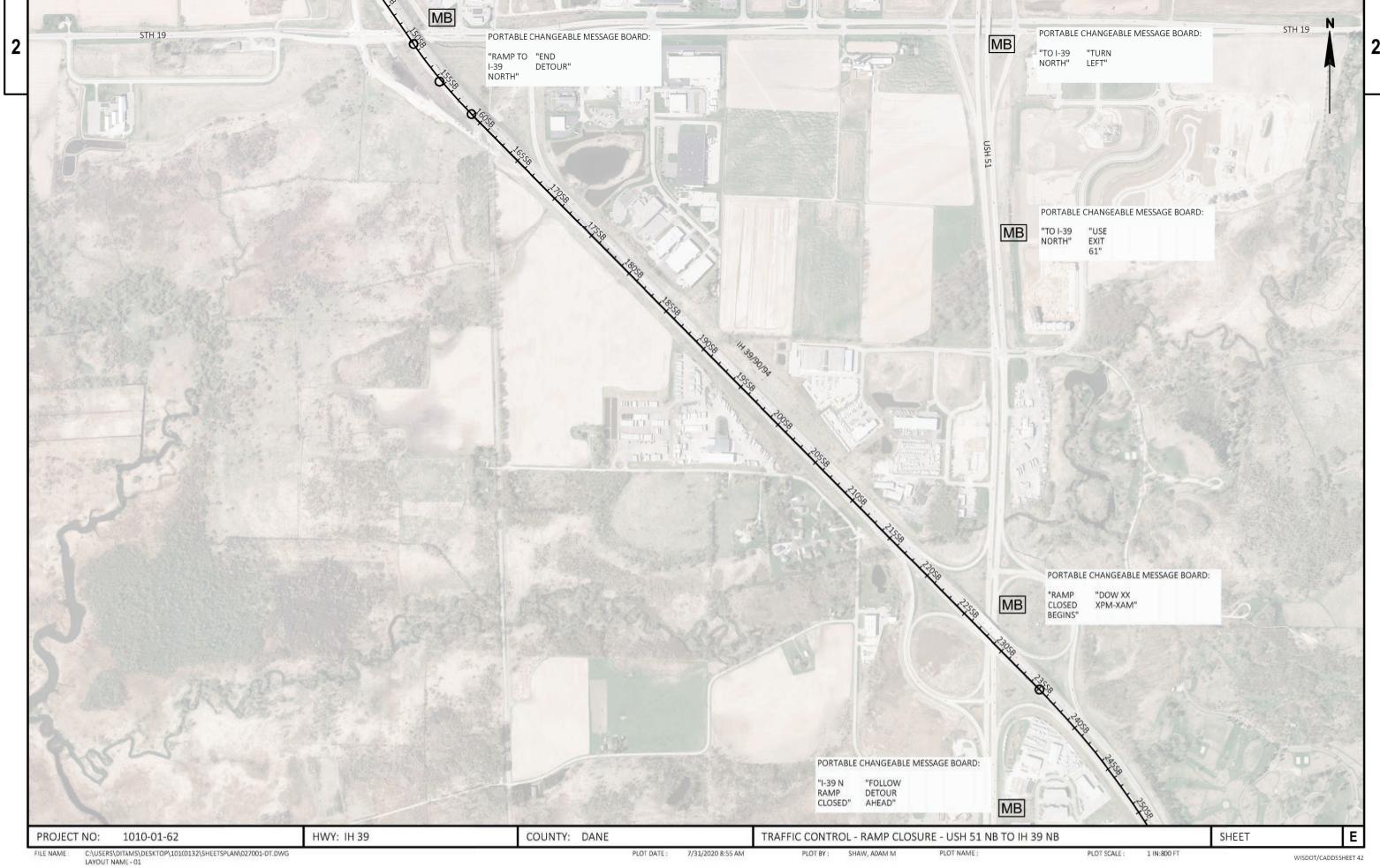
C:\USERS\DITAMS\DESKTOP\10100132\SHEETSPLAN\026001-\$1.DWG LAYOUT NAME - 08-\$5 PLOT DATE : 7/31/2020 2:09 AM PLOT BY: PLOT SCALE : 1 IN:100 FT



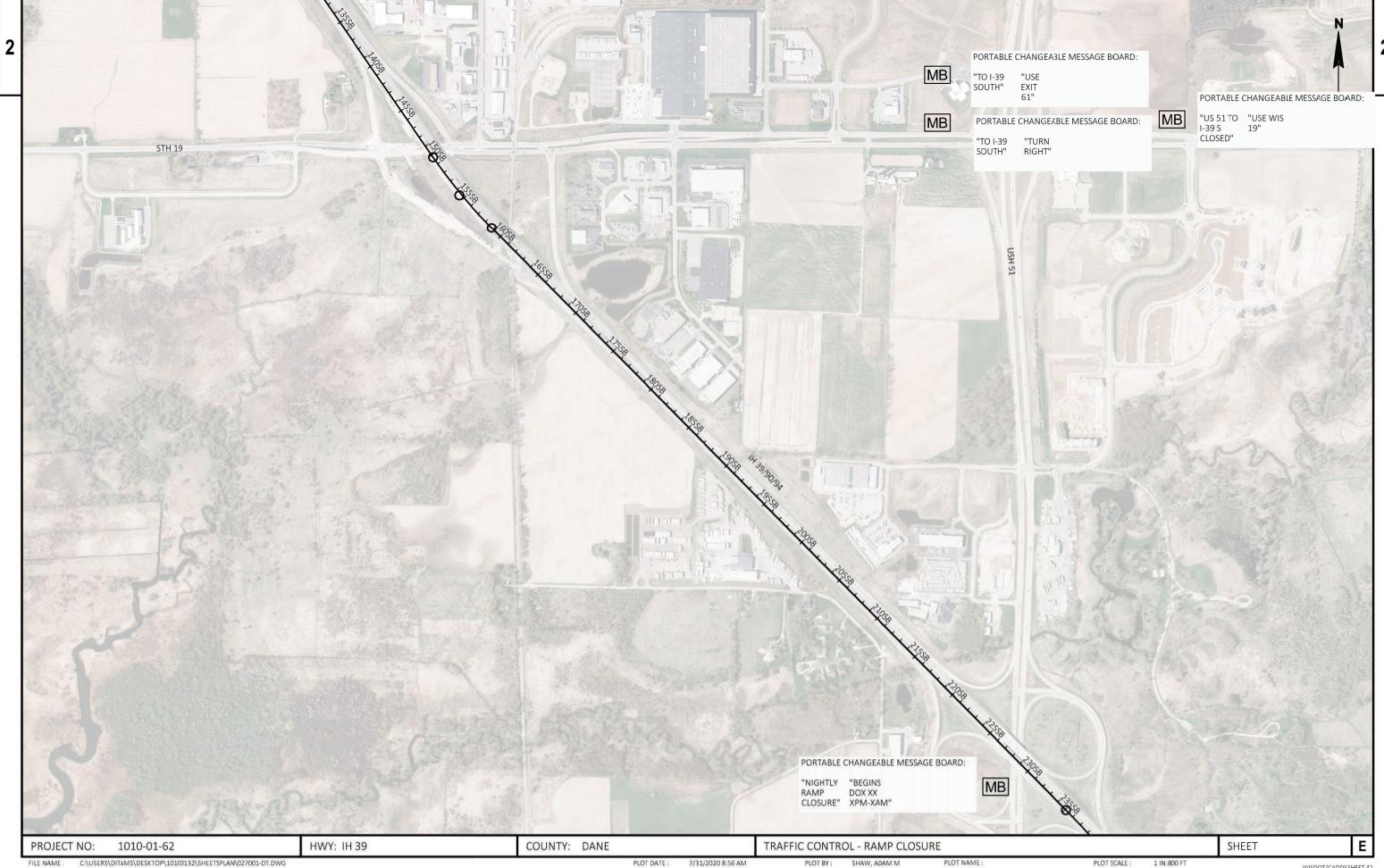
PLOT DATE : FILE NAME : 7/31/2020 2:09 AM PLOT BY: SHAW, ADAM M PLOT NAME : PLOT SCALE : 1 IN:100 FT







PLOT DATE:



C:\USERS\DITAMS\DESKTOP\10100132\SHEETSPLAN\027001-DT.DWG LAYOUT NAME - 02

PLOT DATE:

PLOT NAME:

Estimate Of Quantities By Plan Sets

Page 1

					1010-01-62
Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 1010-01-62	EACH	1.000	1.000
0006	509.0301	Preparation Decks Type 1	SY	1.000	1.000
8000	509.0310.S	Sawing Pavement Deck Preparation Areas	LF	8.000	8.000
0012	509.5100.S	Polymer Overlay	SY	4,660.000	4,660.000
0014	619.1000	Mobilization	EACH	0.450	0.450
0016	642.5001	Field Office Type B	EACH	1.000	1.000
0018	643.0300	Traffic Control Drums	DAY	1,886.000	1,886.000
0020	643.0420	Traffic Control Barricades Type III	DAY	108.000	108.000
0022	643.0705	Traffic Control Warning Lights Type A	DAY	166.000	166.000
0024	643.0715	Traffic Control Warning Lights Type C	DAY	564.000	564.000
0026	643.0800	Traffic Control Arrow Boards	DAY	32.000	32.000
0028	643.0900	Traffic Control Signs	DAY	254.000	254.000
0030	643.1050	Traffic Control Signs PCMS	DAY	82.000	82.000
0032	643.5000	Traffic Control	EACH	0.450	0.450
0034	646.1020	Marking Line Epoxy 4-Inch	LF	1,278.000	1,278.000
0036	646.3020	Marking Line Epoxy 8-Inch	LF	1,024.000	1,024.000
0038	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	258.000	258.000
0040	SPV.0035	Special 01. Rapid Set Deck Repair	CY	1.000	1.000

643-TRAFFIC CONTROL

		643.0300	643.0420	643.0705	643.0715	643.0800	643.0900	643.1050	
			TRAFFIC	TRAFFIC	TRAFFIC				
		TRAFFIC	CONTROL	CONTROL	CONTROL	TRAFFIC		TRAFFIC	
		CONTROL	BARRICADES	WARNING	WARNING	CONTROL	TRAFFIC	CONTROL SIGNS	
		DRUMS	TYPEIII	LIGHTS TYPE A	LIGHTS TYPE C	ARROW BOARDS	CONTROL SIGNS	PCMS	
CATEGORY	LOCATION	DAY	DAY	DAY	DAY	DAY	DAY	DAY	REMARKS
0010	IH 39 SB	214	14	20	68	6	38	24	STAGE 1
0010	IH 39 SB	728	34	50	194	6	62	10	STAGE 2
0010	IH 39 SB	196	16	28	50	4	36	10	STAGE 3
0010	IH 39 NB	214	14	20	68	6	38	22	STAGE 4
0010	IH 39 NB	338	14	20	134	6	44	8	STAGE 5
0010	IH 39 NB	196	16	28	50	4	36	8	STAGE 6
	TOTAL 0010	1,886	108	166	564	32	254	82	

646-MARKING LINE

646.1020 646.3020

MARKING LINE MARKING LINE
EPOXY 4-INCH EPOXY 8-INCH

					WHITE	YELLOW	WHITE	
CATEGORY	STATION	TO	STATION	LOCATION	l	LF	LF	REMARKS
0010	227+37	-	229+91	B-13-98	-	254	-	STAGE 1, SOLID
0010	227+37	-	229+91	B-13-98	64	-	-	STAGE 1, DASHED
0010	227+37	-	229+91	B-13-98	-	-	254	STAGE 2, SOLID
0010	227+37	-	229+91	B-13-98	64	-	-	STAGE 2, DASHED
0010	227+37	-	229+91	B-13-98	-	-	254	STAGE 3, SOLID
0010	227+37	-	229+91	B-13-98	254	-	-	STAGE 3, SOLID
0010	226+75	-	229+33	B-13-99	-	258	-	STAGE 4, SOLID
0010	226+75	-	229+33	B-13-99	65	-	-	STAGE 4, DASHED
0010	226+75	-	229+33	B-13-99	-	-	258	STAGE 5, SOLID
0010	226+75	-	229+33	B-13-99	65	-	-	STAGE 5, DASHED
0010	226+75	-	229+33	B-13-99	-	-	258	STAGE 6, SOLID
0010	226+75	-	229+33	B-13-99	254	_	-	STAGE 6, SOLID
				TOTAL 0010	1,	278	1,024	

TEMPORARY MARKING

649.0120

TEMPORARY MARKING LINE EPOXY

			4-111/011
CATEGORY		LOCATION	LF
0010	TEMPORARY SKIPS	B-13-98, B-13-99	258
		TOTAL 0010	258

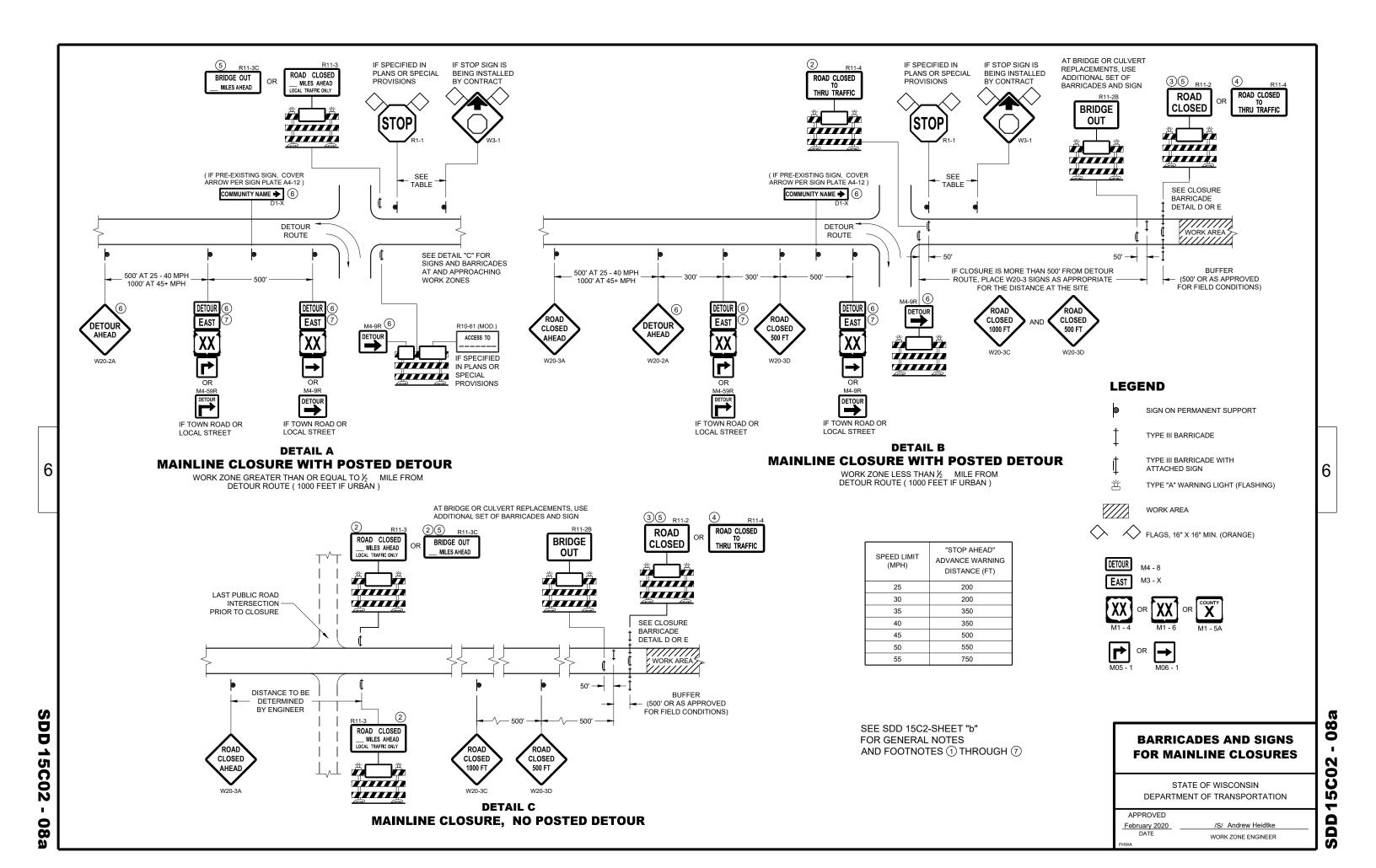
PROJECT NO: 1010-01-62 HWY: IH 39 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: **E**

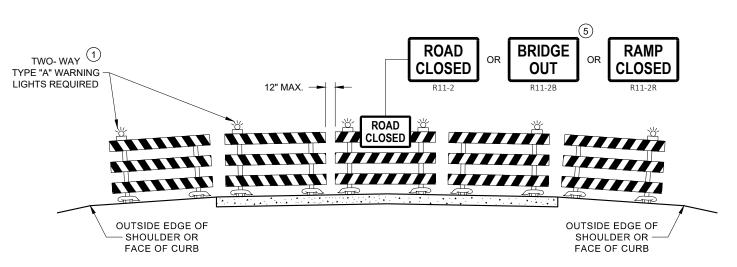
FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

Standard Detail Drawing List

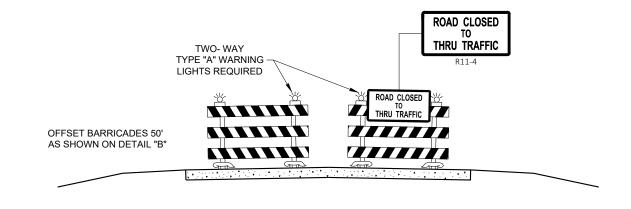
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08D	ON RAMP LANE CLOSURE
15C08-20A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C31-03C	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D14-04	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D15-05A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-05E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

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

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

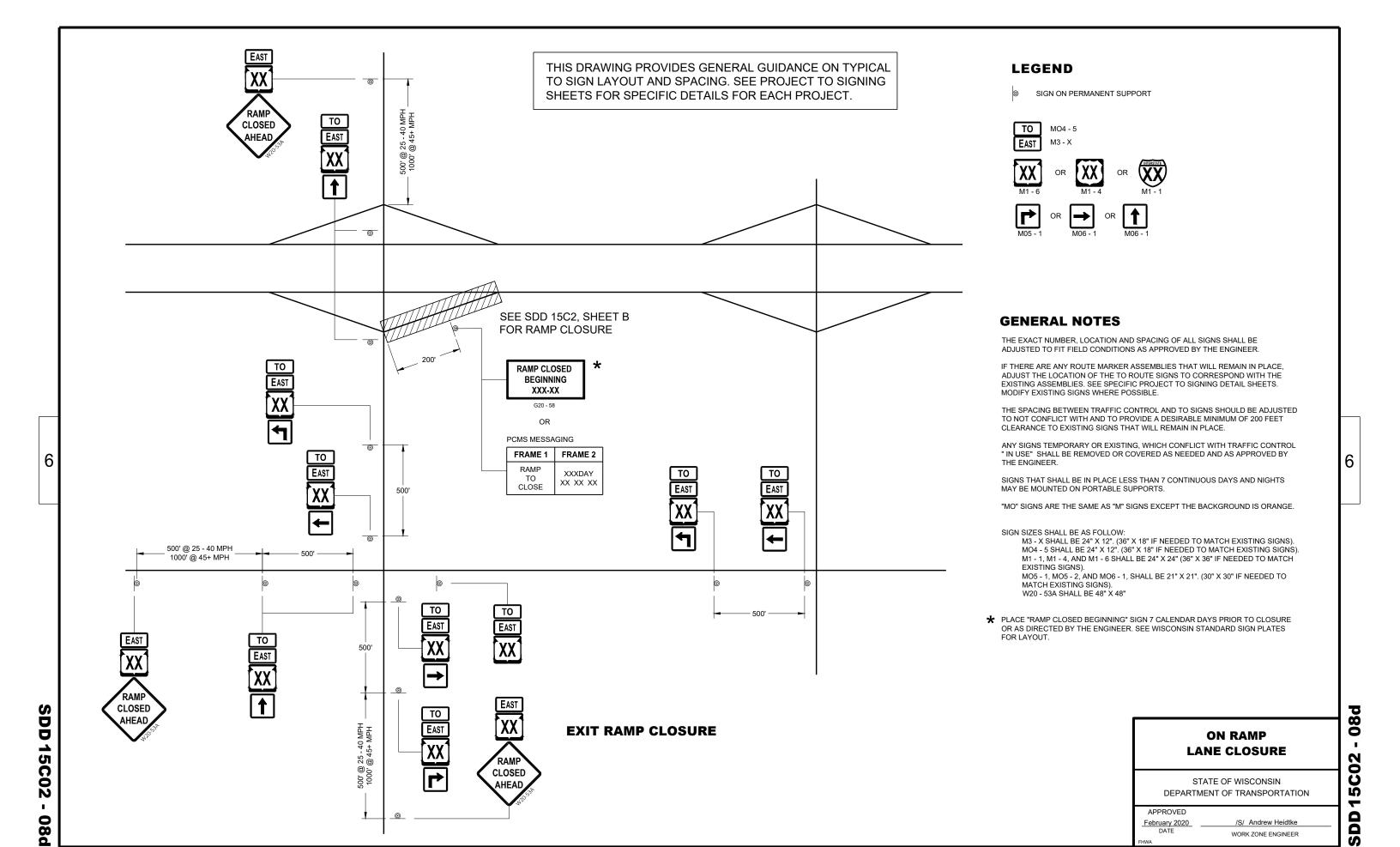
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

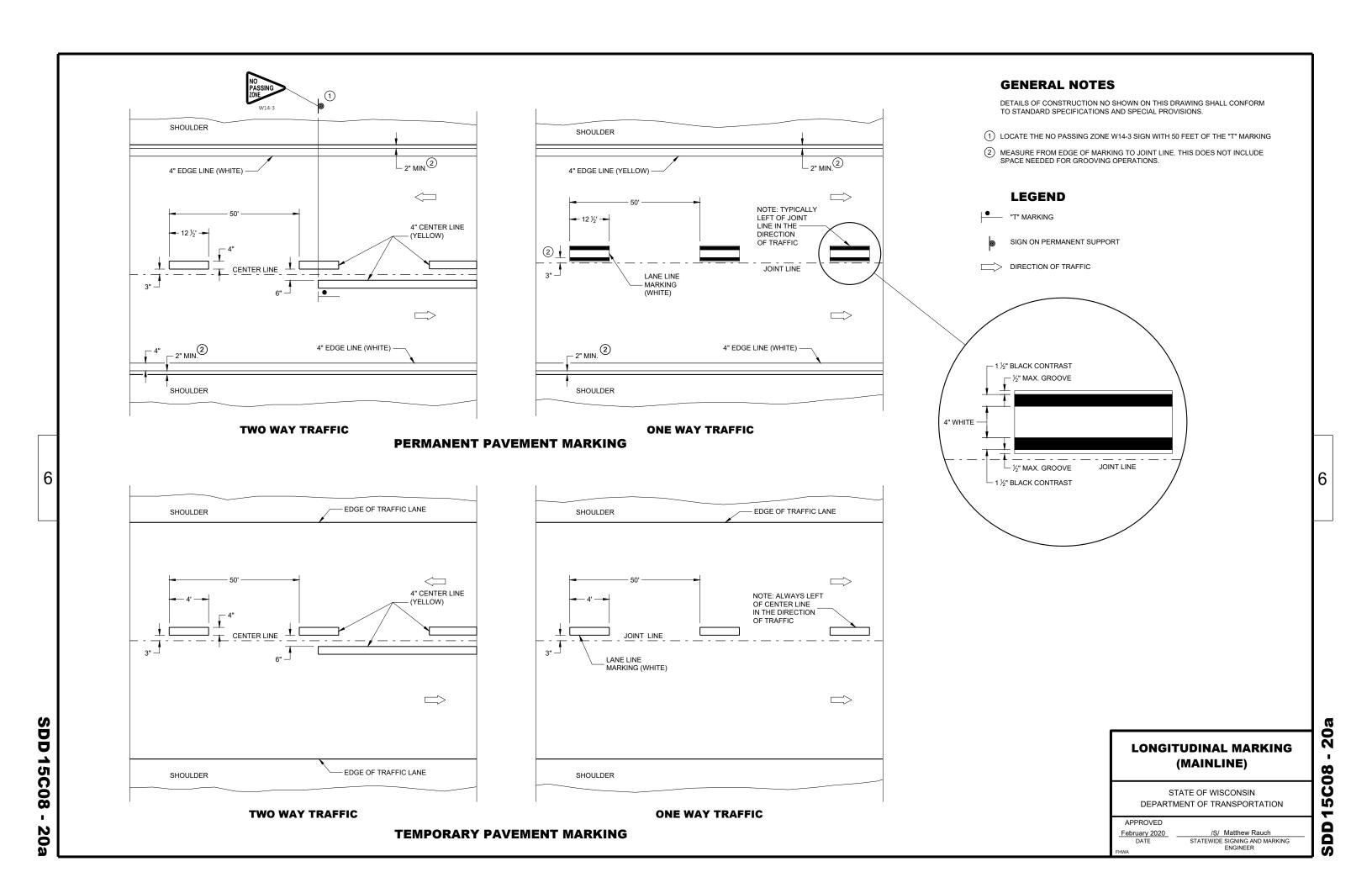
APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

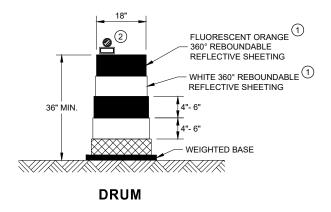
DD 15C02 - 08

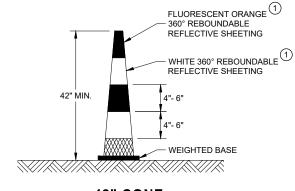


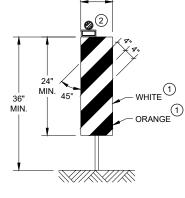


GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





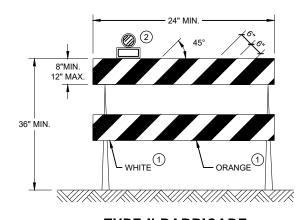


42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS

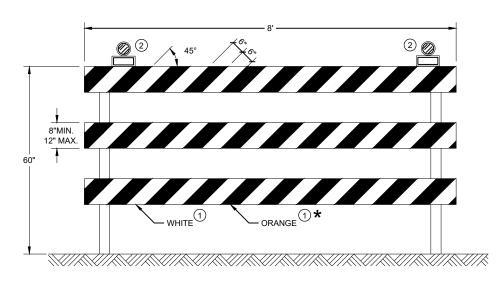
VERTICAL PANEL

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



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

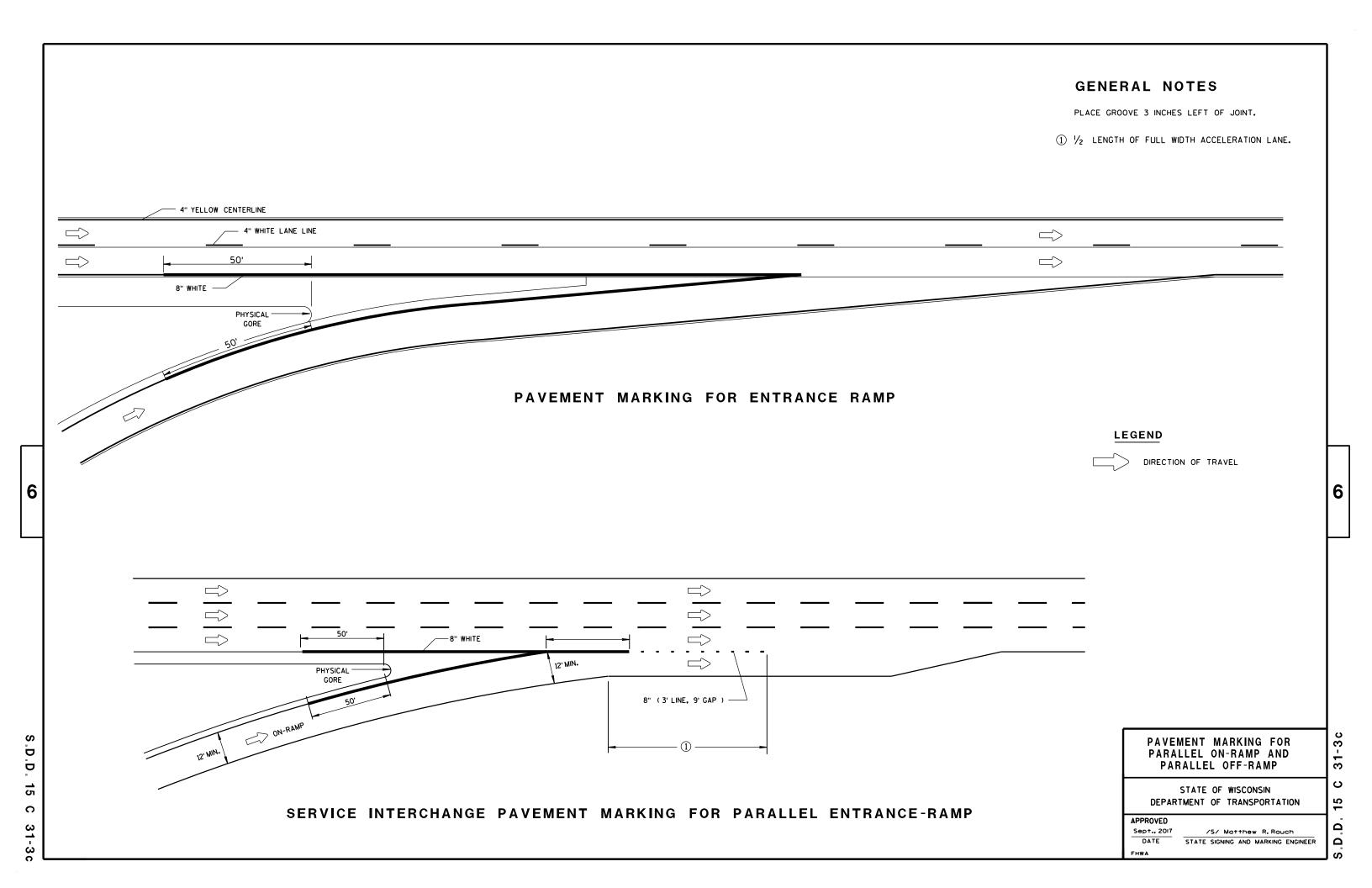
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 08

15C

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



GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

August 2020 DATE /S/ Andrew Heidtke

WORK ZONE ENGINEER

TYPE III BARRICADE WITH ATTACHED SIGN

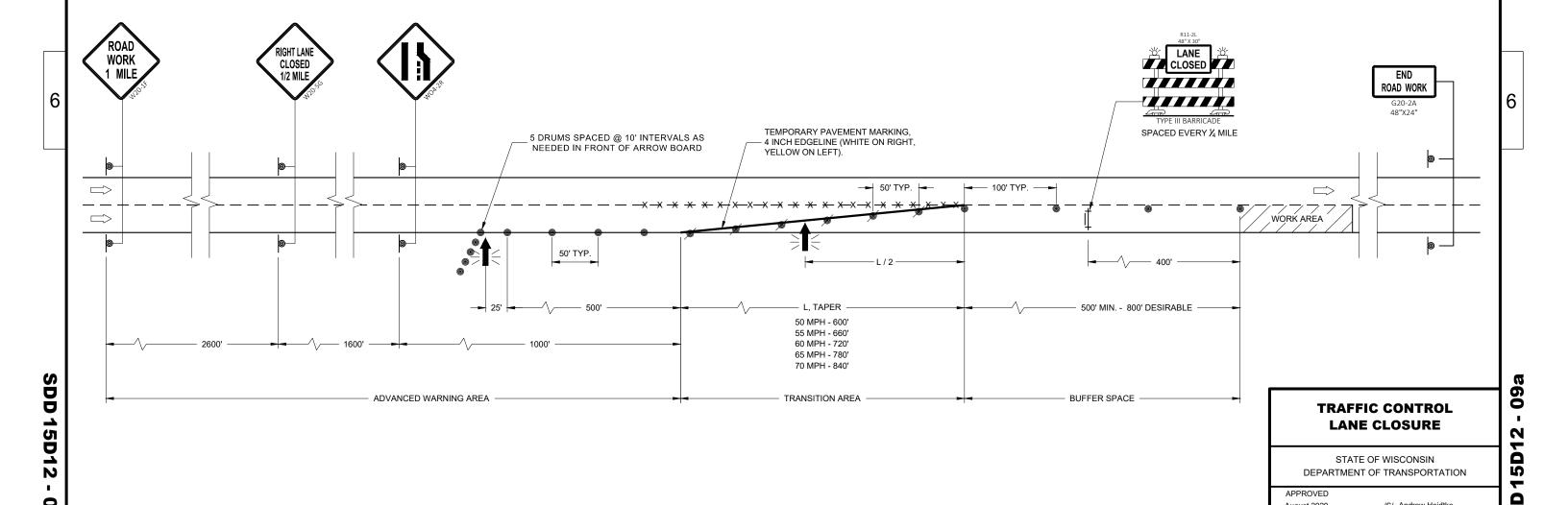
TYPE "A" WARNING LIGHT (FLASHING)

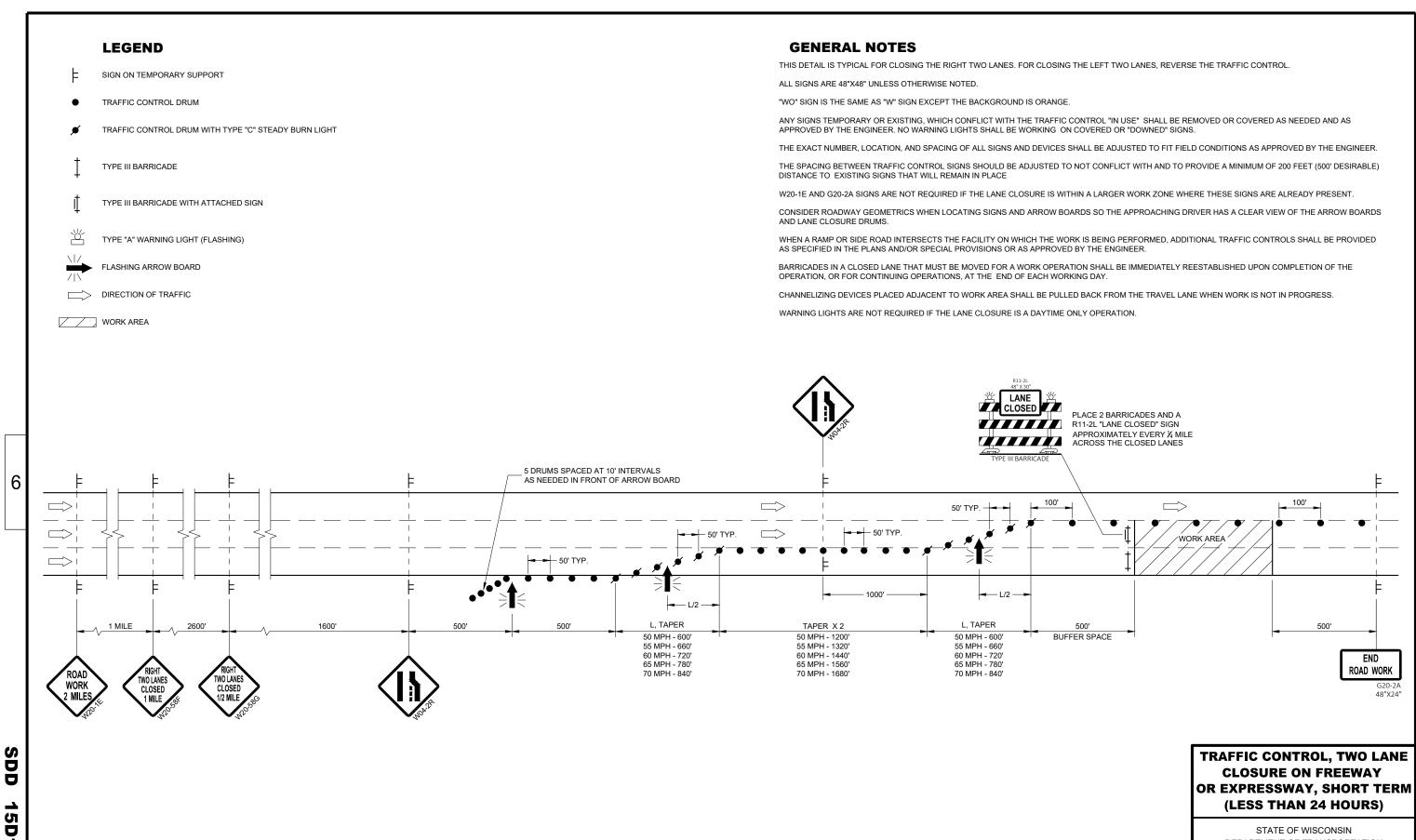
-X-X-X- REMOVING PAVEMENT MARKINGS

DIRECTION OF TRAFFIC

WORK AREA

FLASHING ARROW BOARD





4

0

4 D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

APPROVED May 2020 DATE

6

(PLACE 500' IN

ADVANCE OF GORE)

(PLACE 1000' IN

ADVANCE OF GORE

0

S

S

LANE CLOSED

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

100' (TYP.)

LANE CLOSED

SDD 15D15

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

▼ TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

X- X-X -X REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

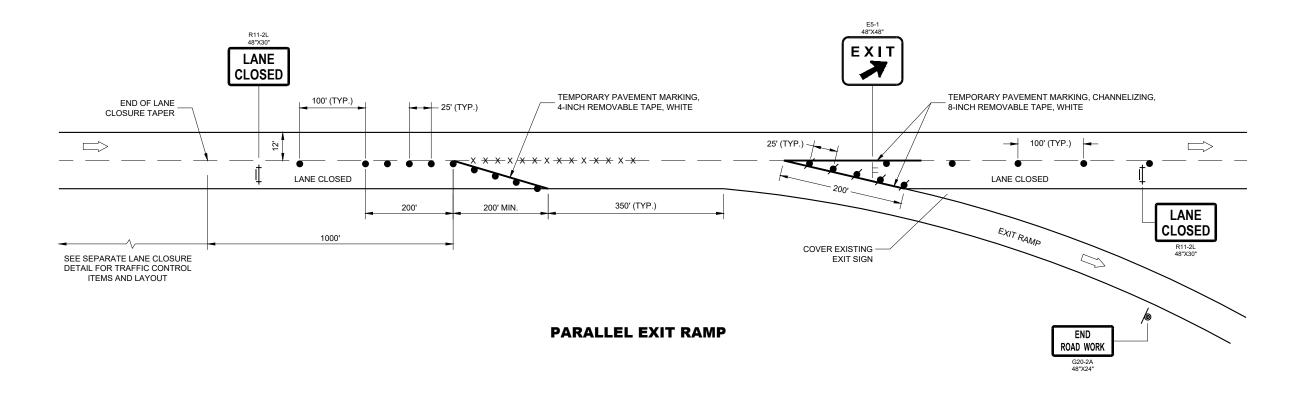
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019

DATE

/S/ Andrew Heidtke

WORK ZONE ENGINEER

6

SDD 15D15 - 0

SDD 15D15 - 05e



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	MENTS	NUMBER OF WOOD POSTS	
L	E	REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D D 15 D ∞

6

Δ

 ∞

6

- 11/2" DIAMETER HOLES

Ω

Ω

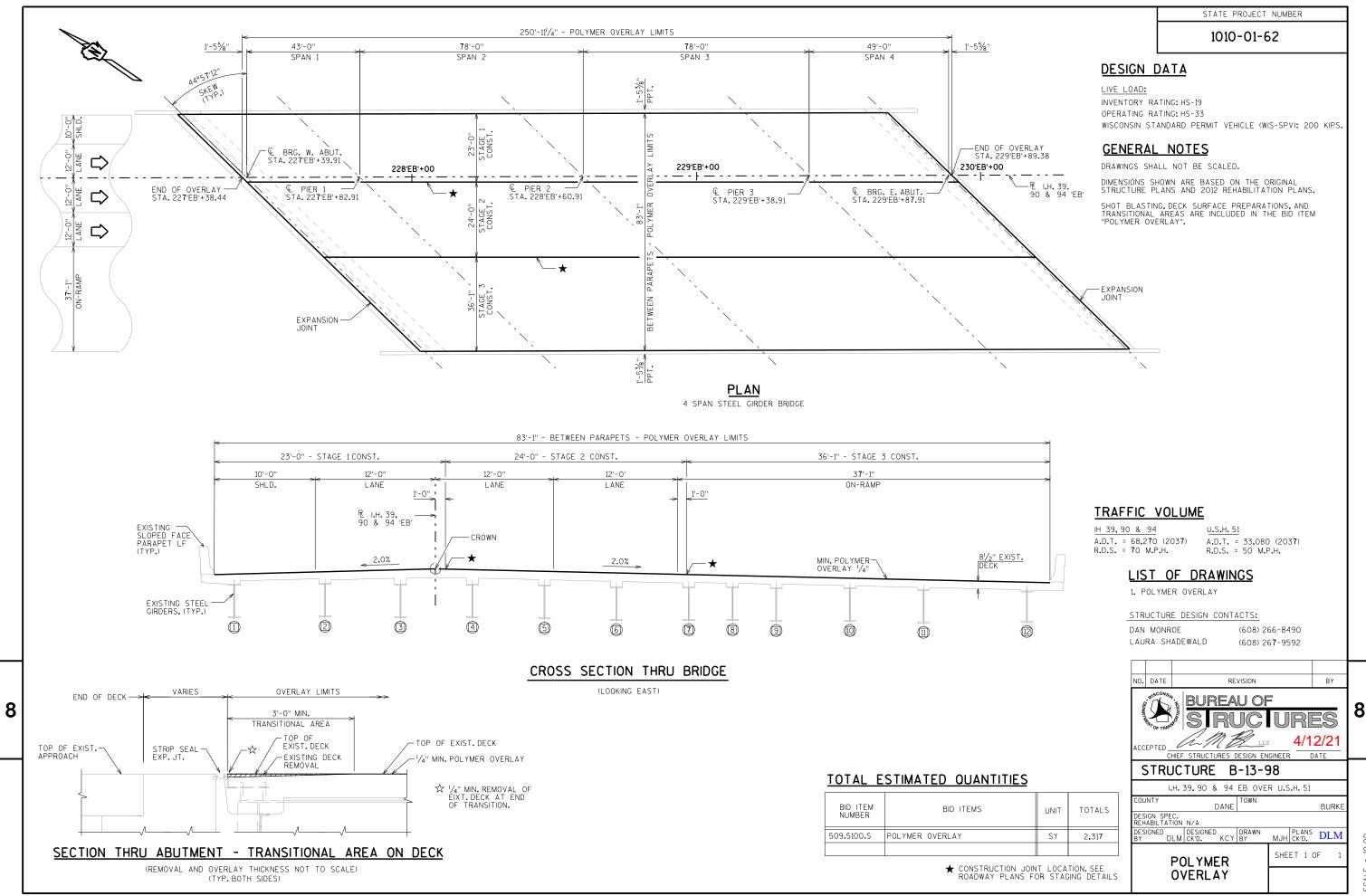
0 ∞ **2**D

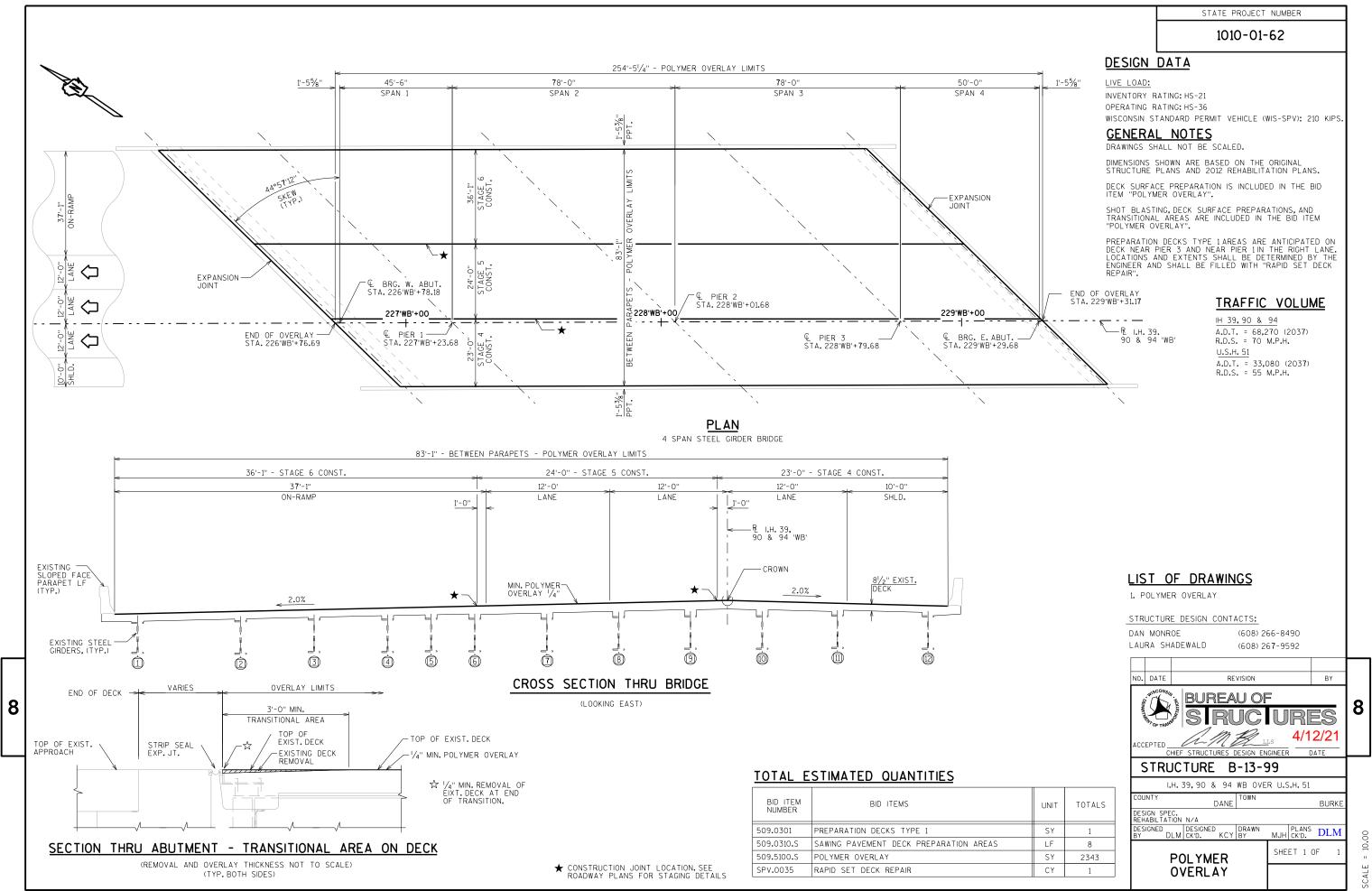
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE







Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

MAD

PROJECT ID: WITH: 1010-01-6

1011-02-65

Section No.

Section No.

TOTAL SHEETS =

Standard Detail Drawing

Structure Plans

42

COUNTY

DANE

JUNE 2021 ORDER OF SHEETS Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellareous Quantities Miscellareous Quantities

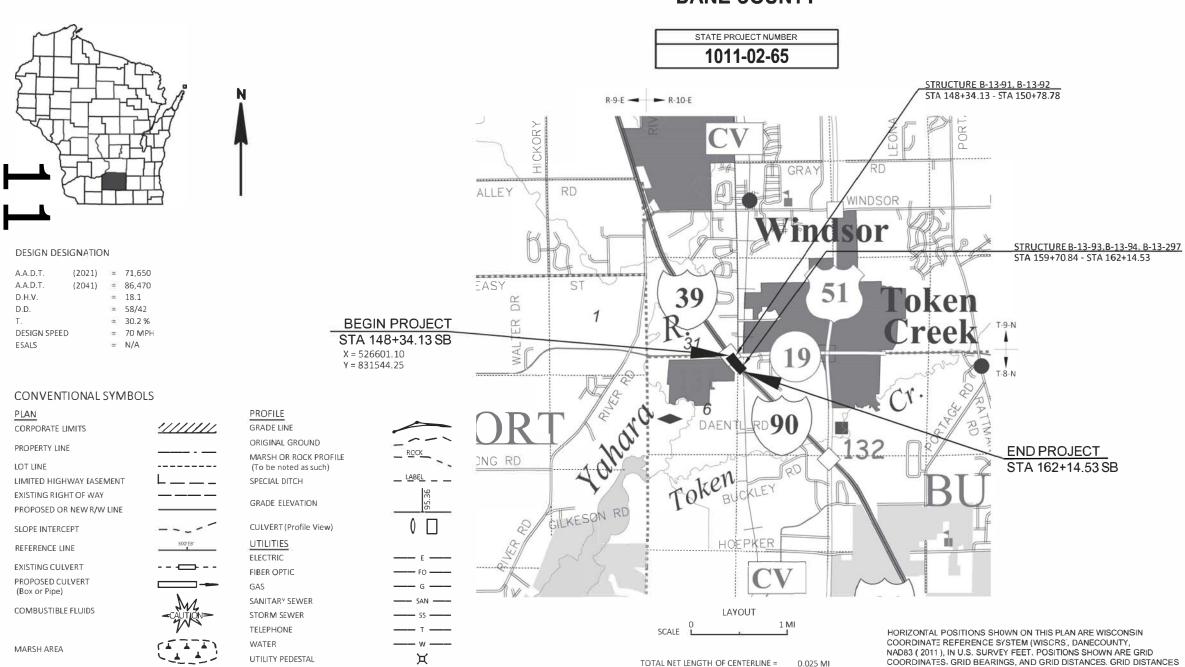
PLAN OF PROPOSED IMPROVEMENT

FEDERAL PROJECT PROJECT CONTRACT 1010-01-62 — 1011-02-65 —

MADISON - PORTAGE

STH 19 IC B-13-91, 92, 93, 94, 297

IH 39 DANE COUNTY



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor
Designer
ADAM SHAW
Project Manager
Regional Examiner
Regional Supervisor

APPROVED FOR THE BEPARTMENT
3/16/2021
DATE:
(Signature)

FILE NAME : C:\USERS\DITAMS\DESKTOP\L0110235\SHEETSPLAN\010101TI.DWG

WOODED OR SHRUB AREA

POWER POLE

TELEPHONE POLE

₫

PLOT DATE : 7/31/2020 9:24 AM

SHAW, ADAM M

PLOT NAME :

ARE THE SAVE AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED

TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THIS 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.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS PAVEMENT MARKING TRAFFIC CONTROL AND CONSTRUCTION STAGING DETOUR

ABBREVIATIONS

ABUT	ABUTMENT	LT	LEFT
A.D.T.	AVERAGE DAILY TRAFFIC	ML	MATCH LINE
AP	ACCESS POINT	MAX.	MAXIMUM
B.F.	BACK FACE	MIN.	MINIMUM
B.M.	BENCH MARK	NORM.	NORMAL
B.O.P.	BEGIN OF PROJECT	O.H.	OVER HEAD POWER LINE
CL	CENTER LINE	PT	POINT
CTR.	CENTER	PC	POINT OF CURVATURE
CY	CUBIC YARD	PI	POINT OF INTERSECTION
CP	CULVERT PIPE	PT	POINT OF TANGENCY
C&G	AVERAGE DAILY TRAFFIC ACCESS POINT BACK FACE BENCH MARK BEGIN OF PROJECT CENTER LINE CENTER CUBIC YARD CULVERT PIPE CURB AND GUTTER DESIGN HOURLY VOLUME DIAMATER	PL	PROPERTY LINE
D.H.V.	DESIGN HOURLY VOLUME	PB	PULL BOX
DIA.	DIAMETER	RAD.	RADIUS
DIM.	DIMENSION	RL	REFERENCE LINE
EL	ELEVATION	REQ'D	REQUIRED
EW	END WALL	RT	RIGHT
EBS	EXCAVATION BELOW SUBGRADE	RHF	RIGHT HAND FORWARD
E.O.P.	END OF PROJECT	R/W	RIGHT OF WAY
EXC.	EXCAVATION	STA.	STATION
EXIST	EXISTING	SSPRC	STORM SEWER PIPE
F.F.	FRONT FACE		REINFORCED CONCRETE
FL	FLOW LINE	SE	SUPERELEVATION
HT	HEIGHT	STR.	STRUCTURE
CWT	HUNDREDWEIGHT	TLE	TEMPORARY LIMITED EASEMENT
INL	INLET	TYP.	TYPICAL
INV	INVERT	V.	DESIGN SPEED

UTILITY CONTACTS

AT&T LEGACY - COMMUNICATION LINE KENNETH COLWELL 222 W JACKSON WOODSTOCK, IL 60098 (312) 734-2223 KC1298@ATT.COM

> WILLIAM KOENIG 128 W SUNSET AVE APPLETON, WI 54911 (608) 628-0575 WEKOENIG@ATT.NET

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION

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

ALLIANT ENERGY - ELECTRICITY MARY MONTGOMERY 200 FIRST ST CEDAR RAPIDS, IA 52401 (319) 786-4768 MARYMONTGOMERY@ALLIANTENERGY.COM

MCI - COMMUNICATION LINE **BONNIE BEACH** 2410 PACKERS AVE. MADISON, WI 53704 (608) 294-7411 BONNIE.S.BEACH@VERIZON.COM MADISON GAS AND ELECTRIC COMPANY - GAS/PETROLEUM JANE ROSSING P.O. BOX 1231 MADISON, WI 53701-1231 (608) 252-7099 WORKPLANS@MGE.COM

VILLAGE OF DEFOREST - WATER **GREG HALL** 306 DEFOREST ST DEFOREST, WI 53532 (608) 846-6751 HALLG@VI.DEFOREST.WI.US

MADISON METROPOLITAN SEWERAGE DISTRICT - SEWER ERIC HJELLEN 1610 MOORLAND RD MADISON, WI 53713

(608) 222-1202 ERICH@MADSEWER.ORg

ROGERS TELECOM - COMMUNICATION LINE VICKIE MORAN 4804 N 40TH ST SHEBOYGAN, WI 53083 (920) 395-7125 VMORAN@GABES.COM



REGION CONTACT

GREG BRECKA 2101 WRIGHT ST. MADISON, WI 53704 608 516-6524 GREGORY.BRECKA@DOT.WI.GOV

DESIGN CONTACT

RUTH COISMAN 2101 WRIGHT ST. MADISON, WI 53704 608 516-5960 RUTH.COISMAN@DOT.WI.GOV

DNR CONTACTS

ERIC HEGGELUND 3911 FISH HATCHERY RD. FITCHBURG, WI 53711 608 275-3301 ERIC.HEGGELUND@WISCONSIN.GOV

RAILROAD CONTACT

CANADIAN PACIFIC RAILWAY EDWARD ARTHUR OOM SUITE 9126 120 SOUTH SIXTH STREET MINNEAPOLIS, MN 55402 (612) 330-4553 OOM0001@CPR.CA.

PROJECT NO: 1011-02-65 HWY: IH 39

COUNTY: DANE

7/31/2020 9:27 AM

GENERAL NOTES

SHEET

1 IN:100 FT

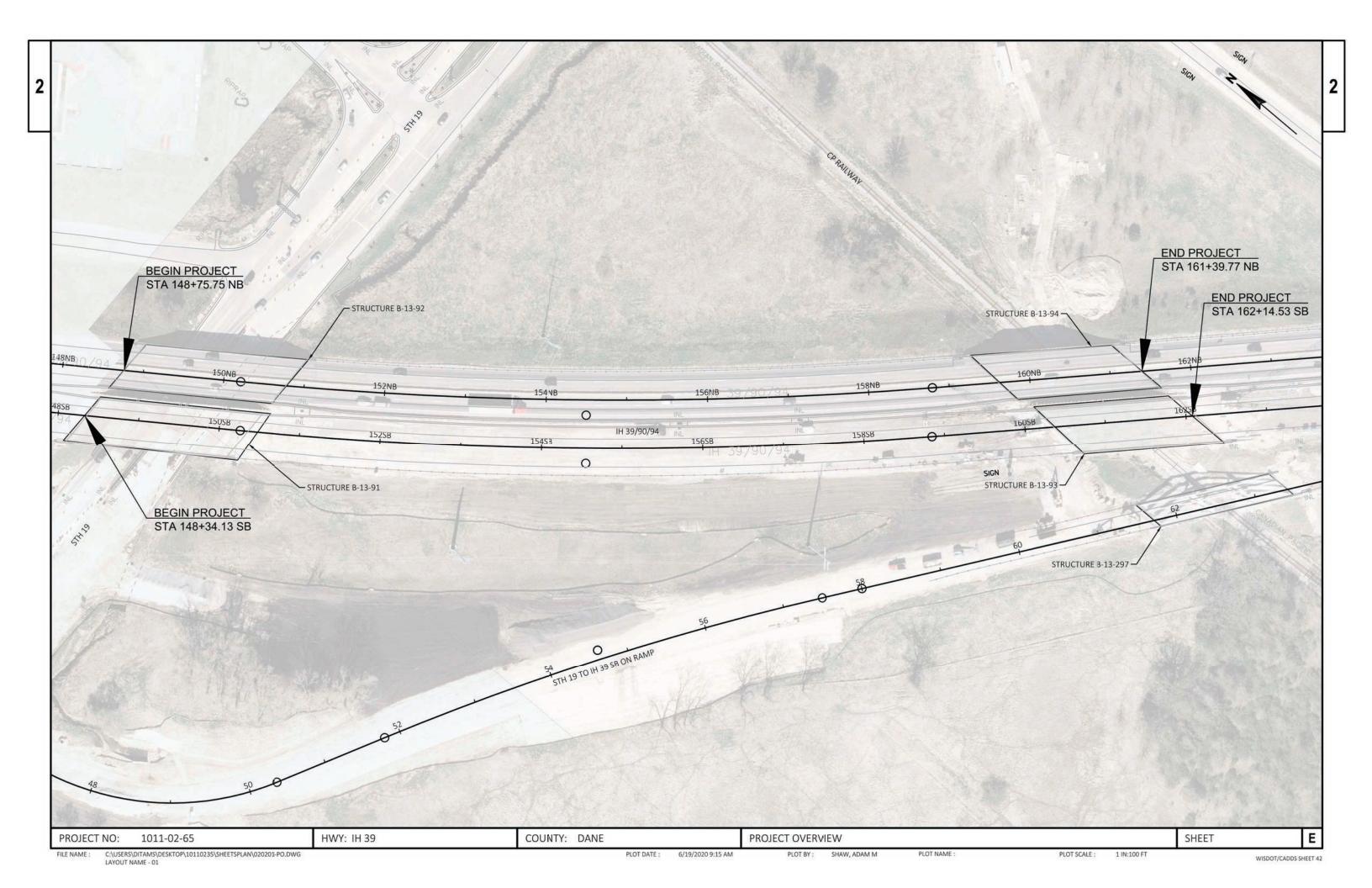
C:\USERS\DITAMS\DESKTOP\10110235\SHEETSPLAN\020101-GN.DWG LAYOUT NAME - 01

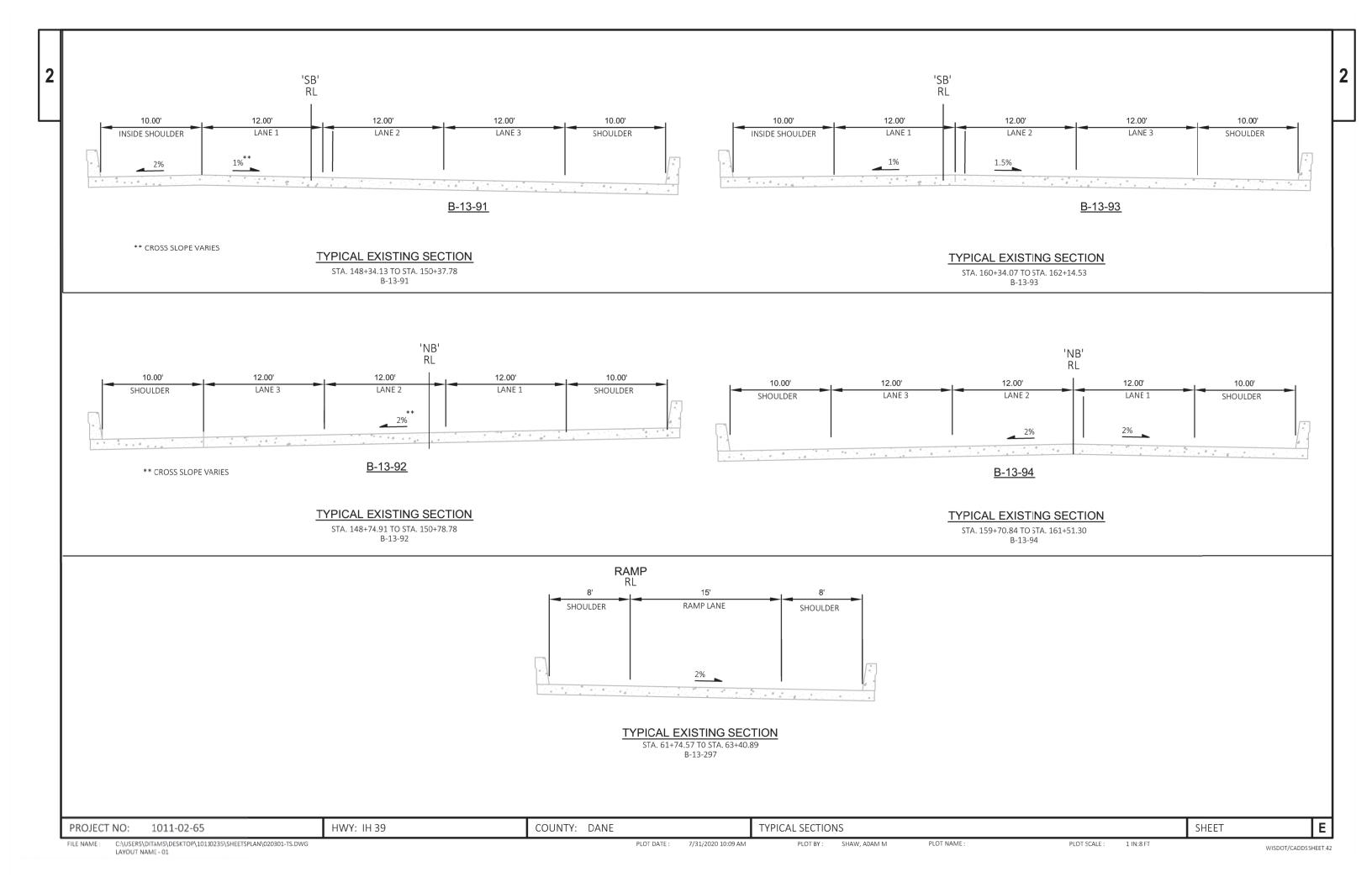
SHAW, ADAM M

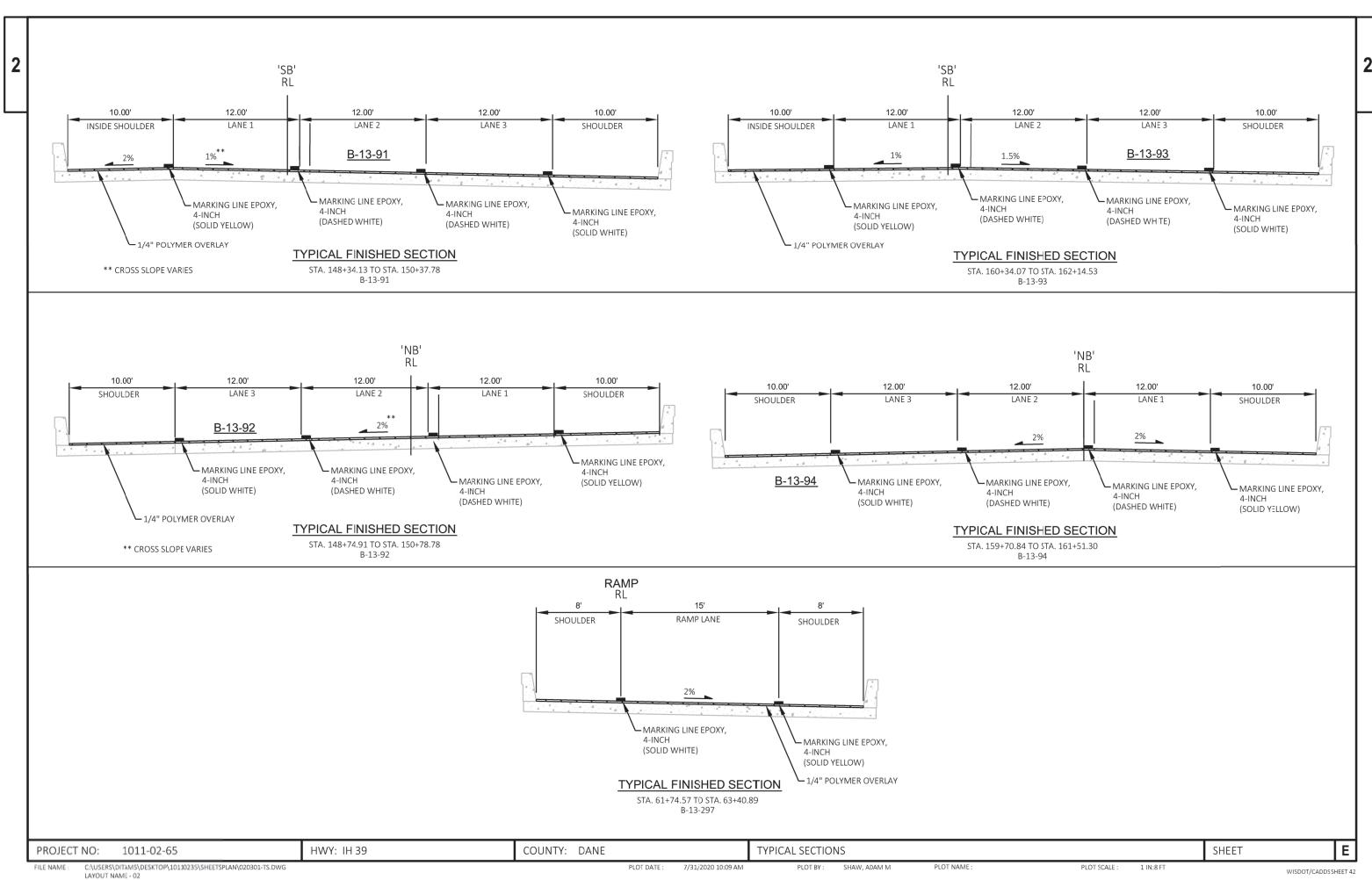
PLOT NAME

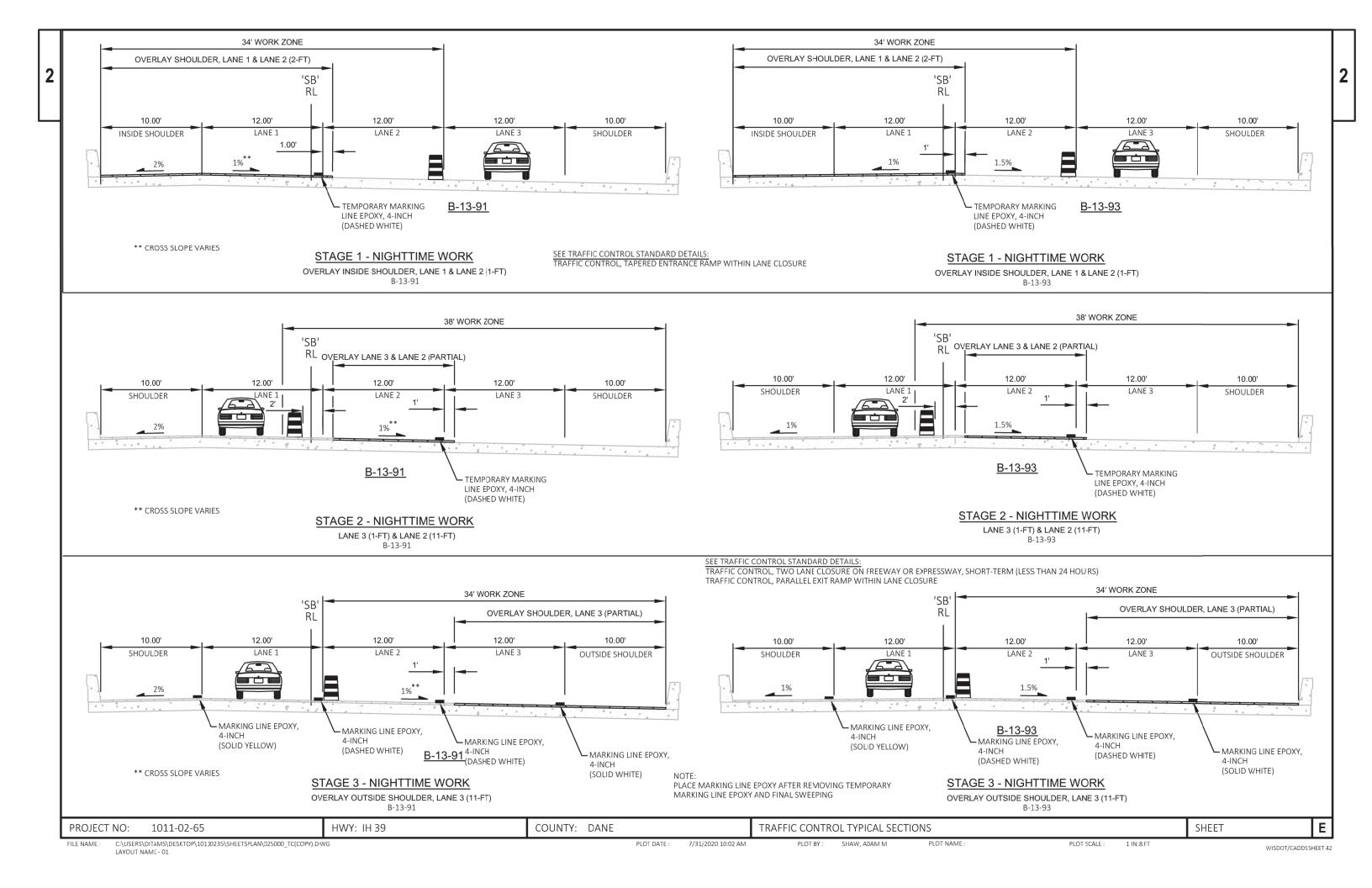
PLOT SCALE:

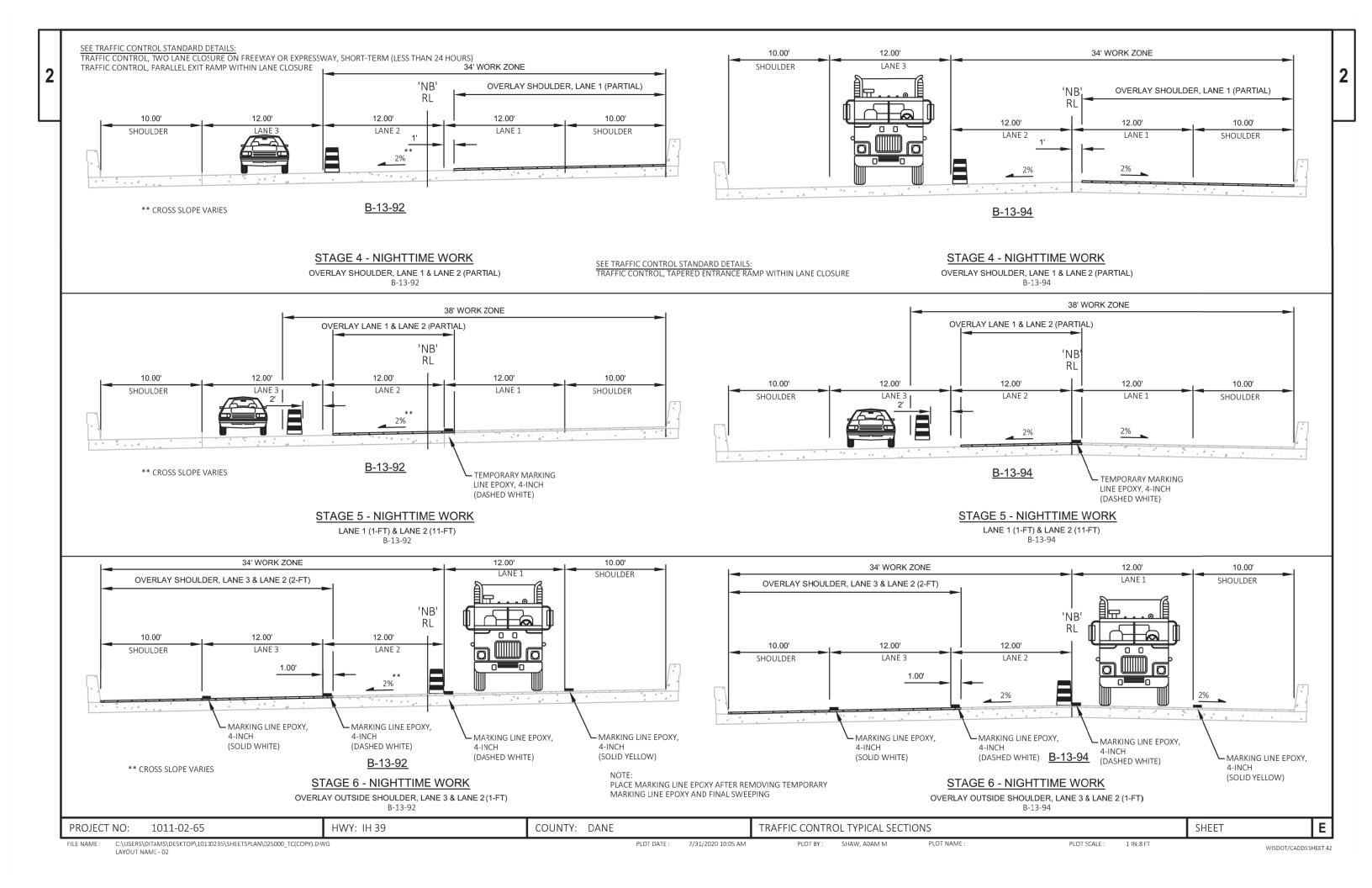
WISDOT/CADDSSHEET 42

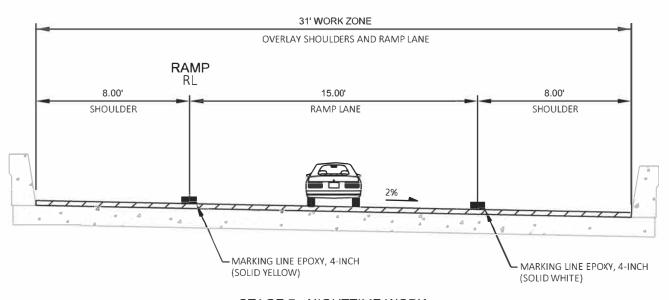












STAGE 7 - NIGHTTIME WORK

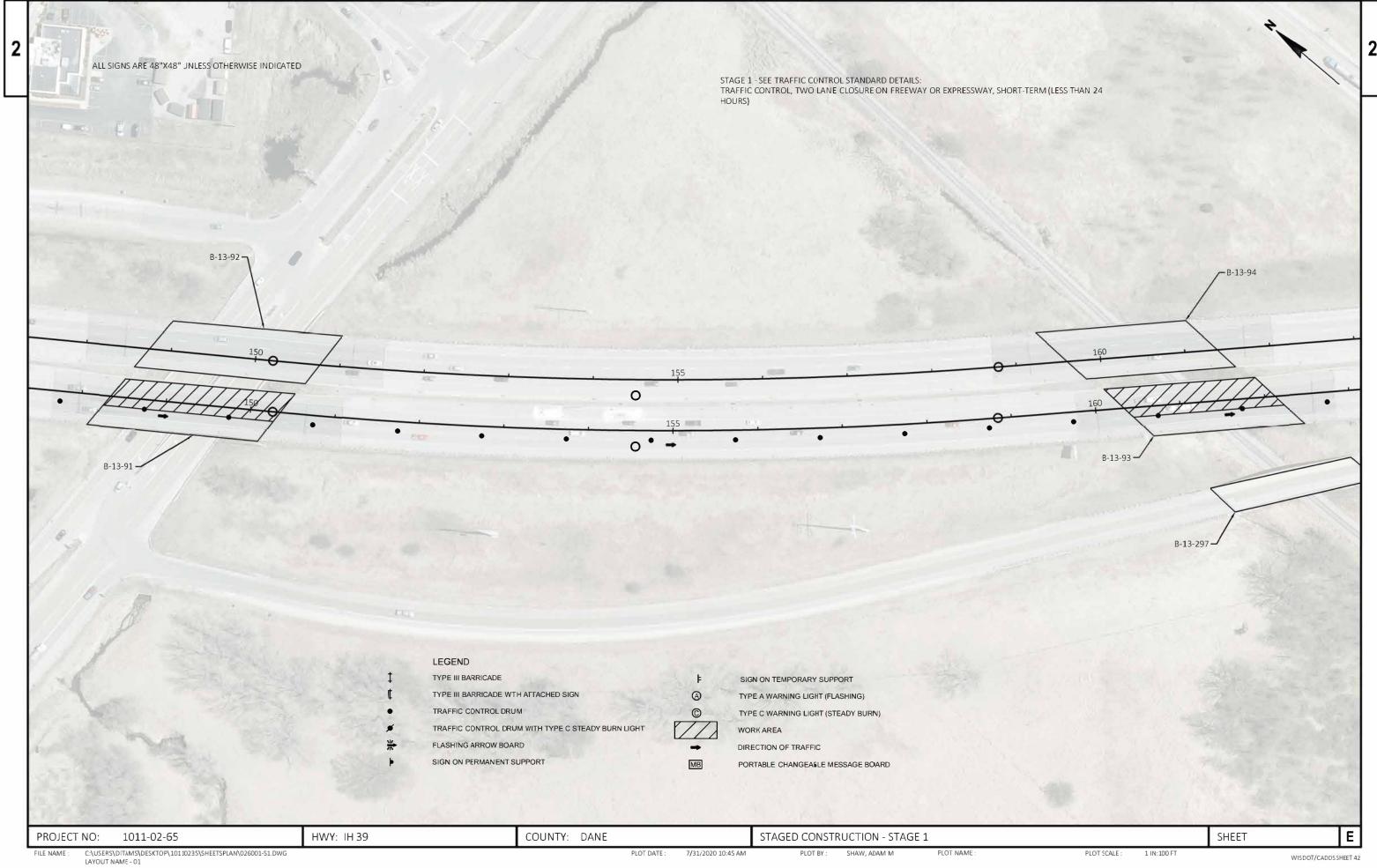
OVERLAY BOTH SHOULDERS AND RAMP LANE B-13-297

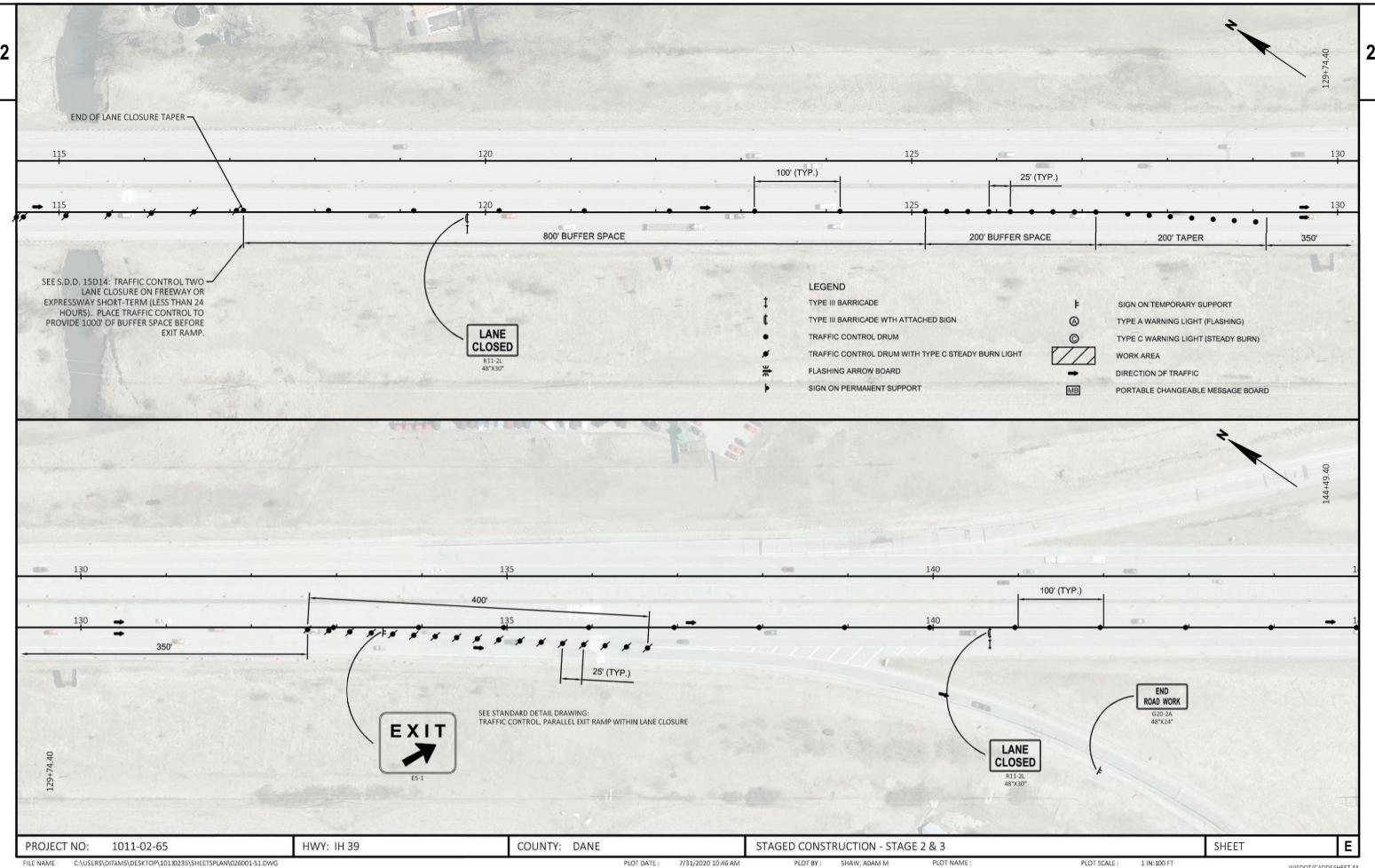
SEE TRAFFIC CONTROL STANDARD DETAILS:
TRAFFIC CONTROL, TWO LANE CLOSUREON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 IHOURS)
TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

TRAFFIC CONTROL, ON RAMP LANE CLOSURE
BARRICADES AND SIGNS FOR VARIOUS MAINLINE CLOSURES

HWY: IH 39 SHEET PROJECT NO: 1011-02-65 COUNTY: DANE PLAN: TRAFFIC CONTROL TYPICAL SECTIONS

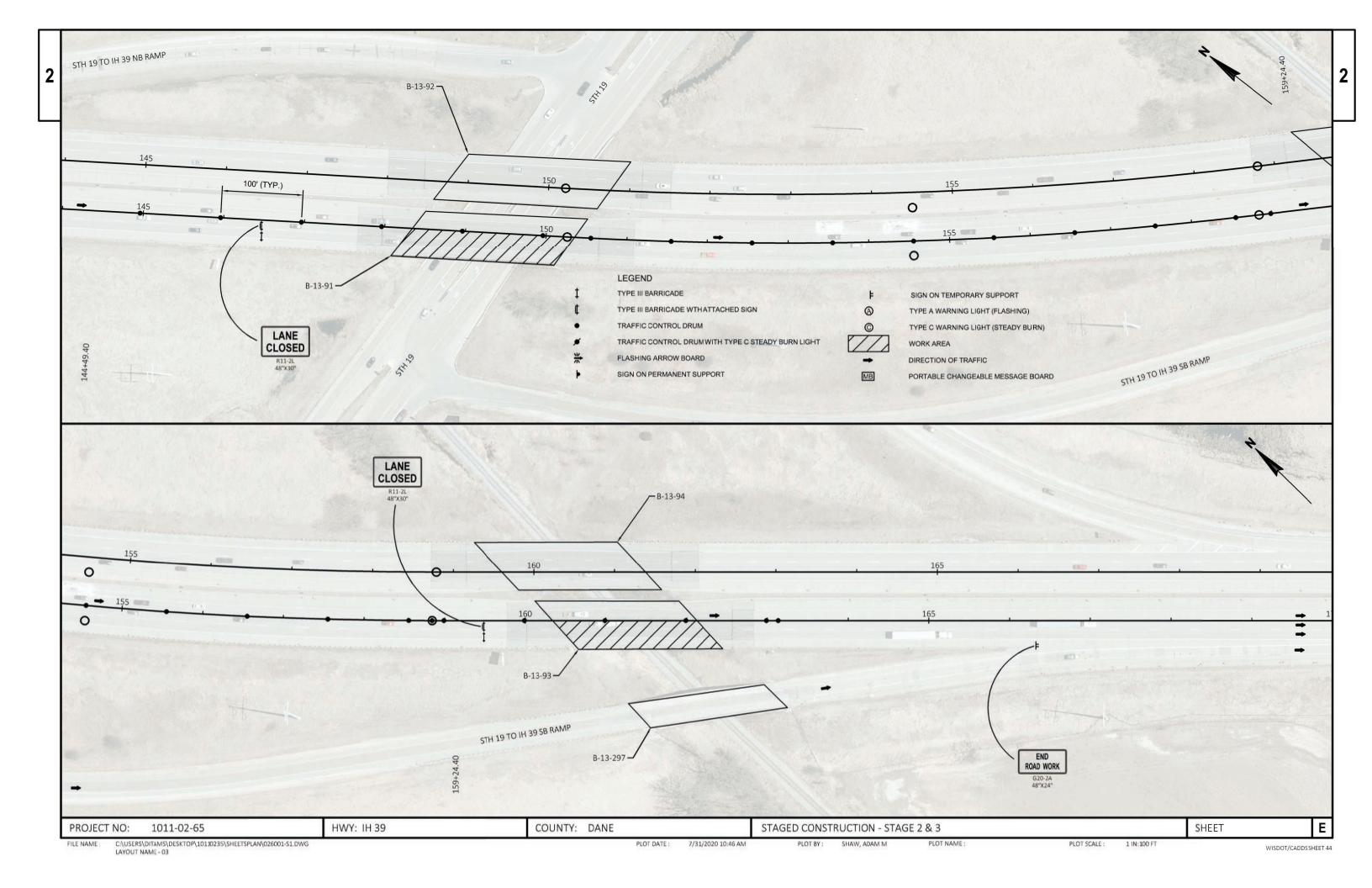
C:\USERS\DITAMS\DESKTOP\1013D23S\SHEETSPLAN\025000_TC(COPY).D\WG LAYOUT NAME - 03 PLOT DATE: 7/31/2020 10:05 AM PLOT BY: SHAW, ADAM M PLOT SCALE : 1 IN:5 FT WISDOT/CADDSSHEET 42

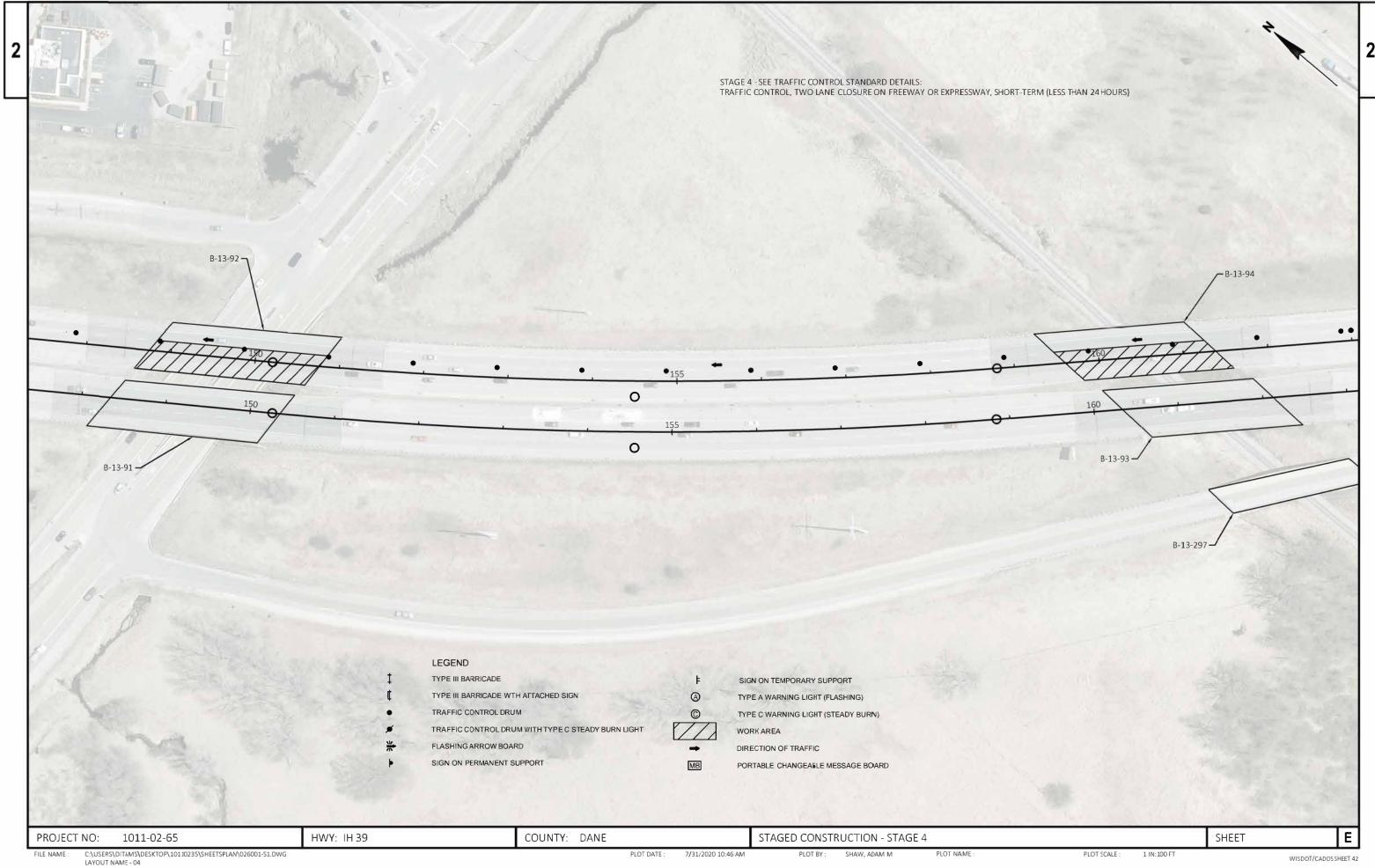


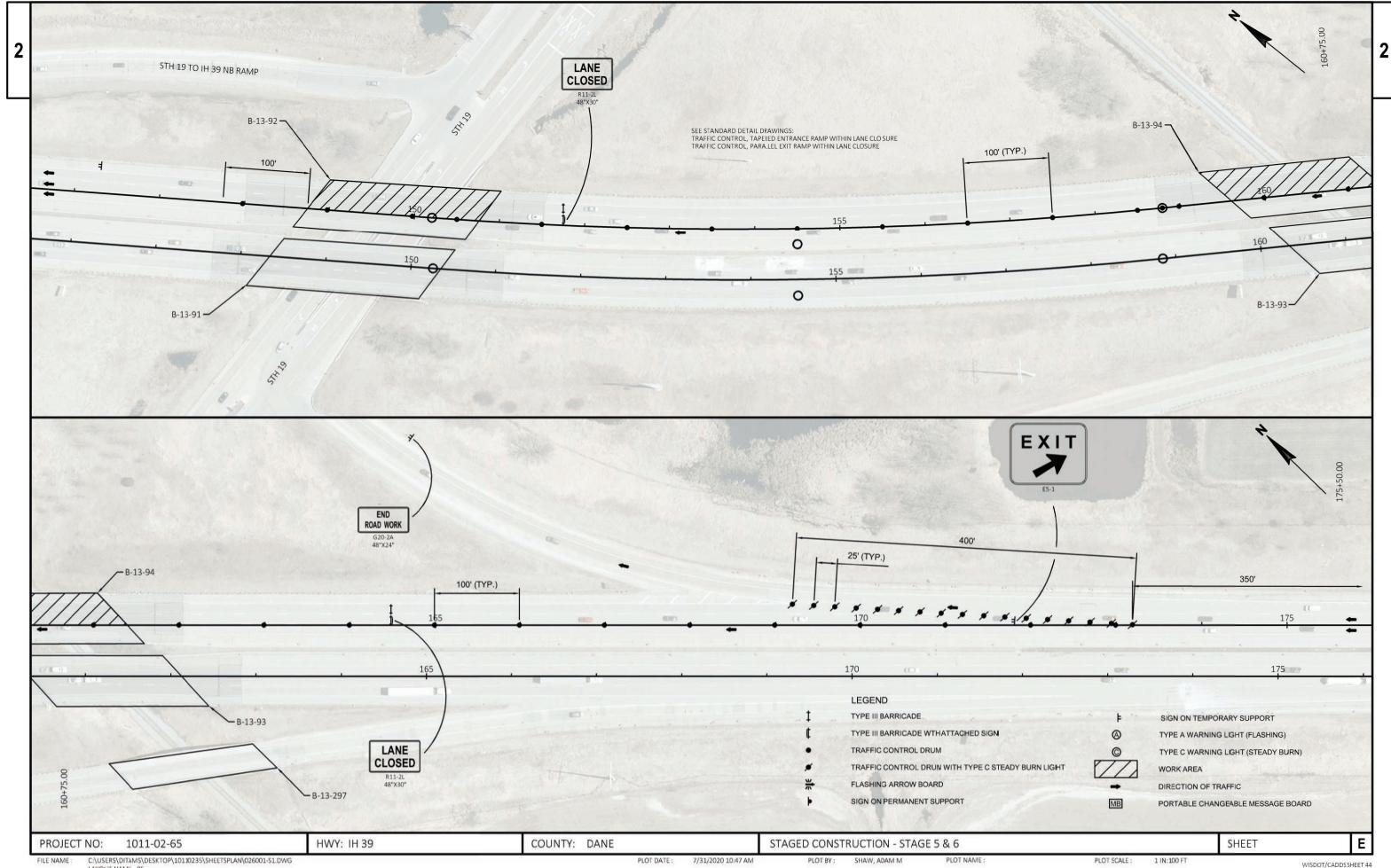


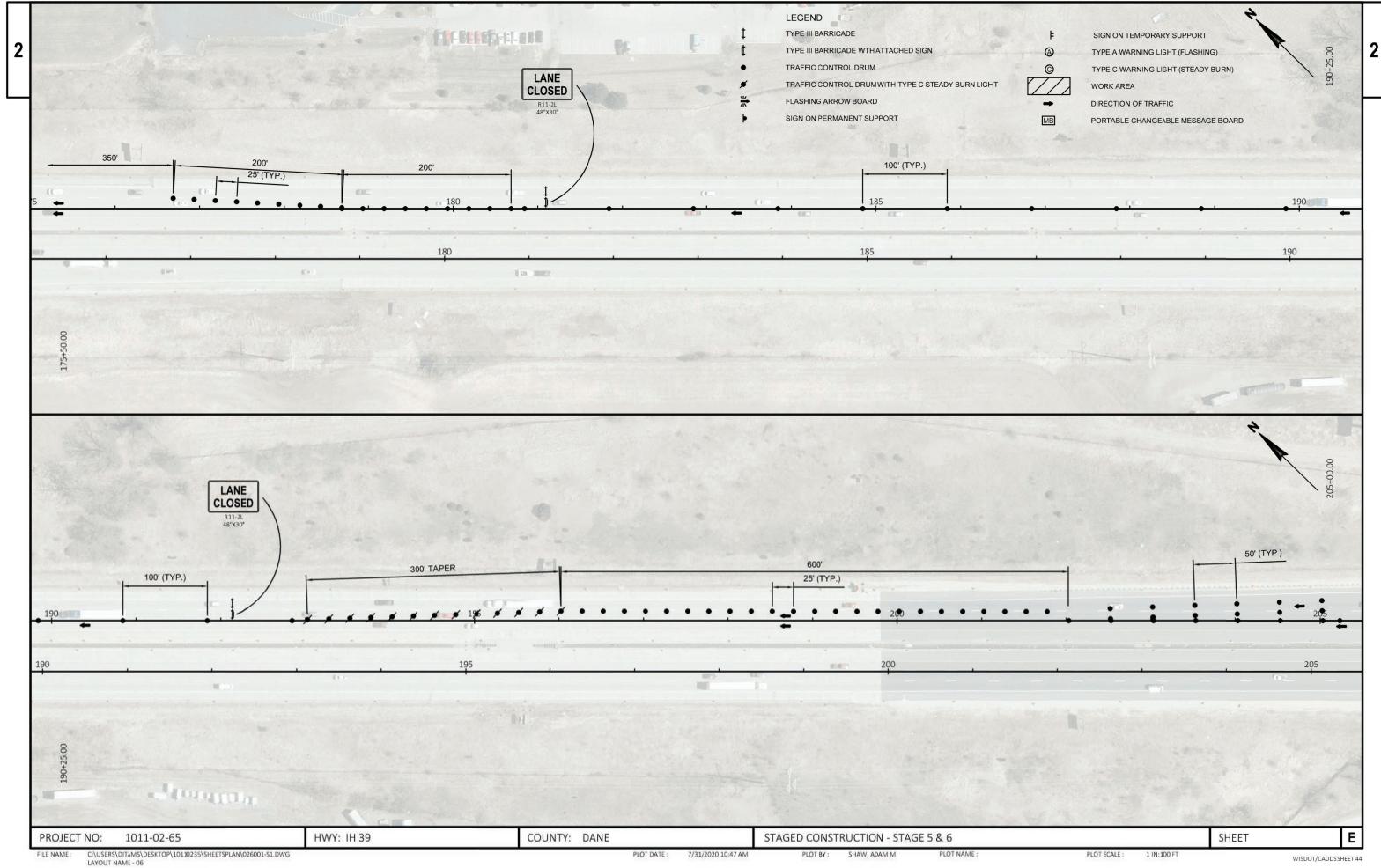
LAYOUT NAME - 02

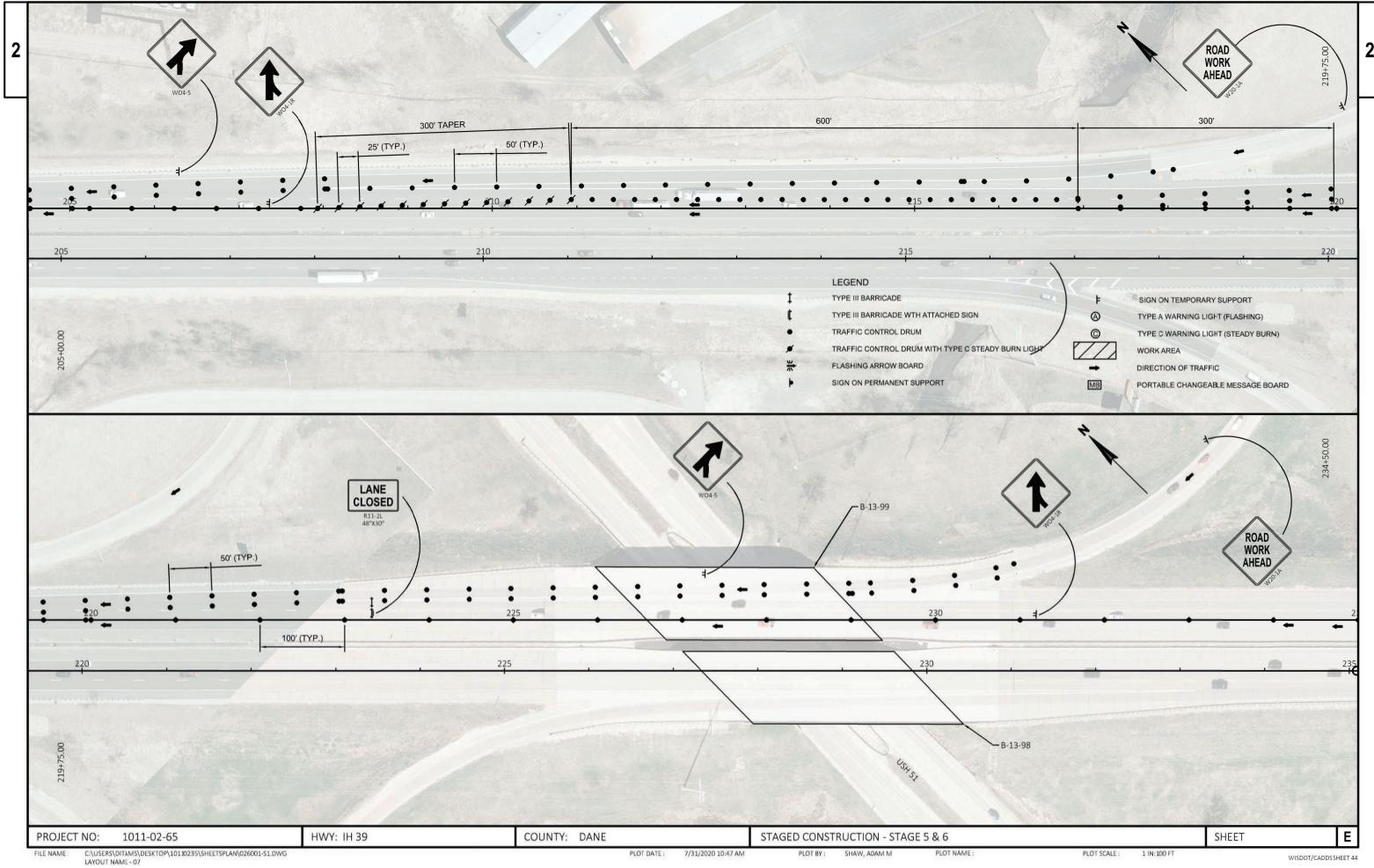
WISDOT/CADDSSHEET 44

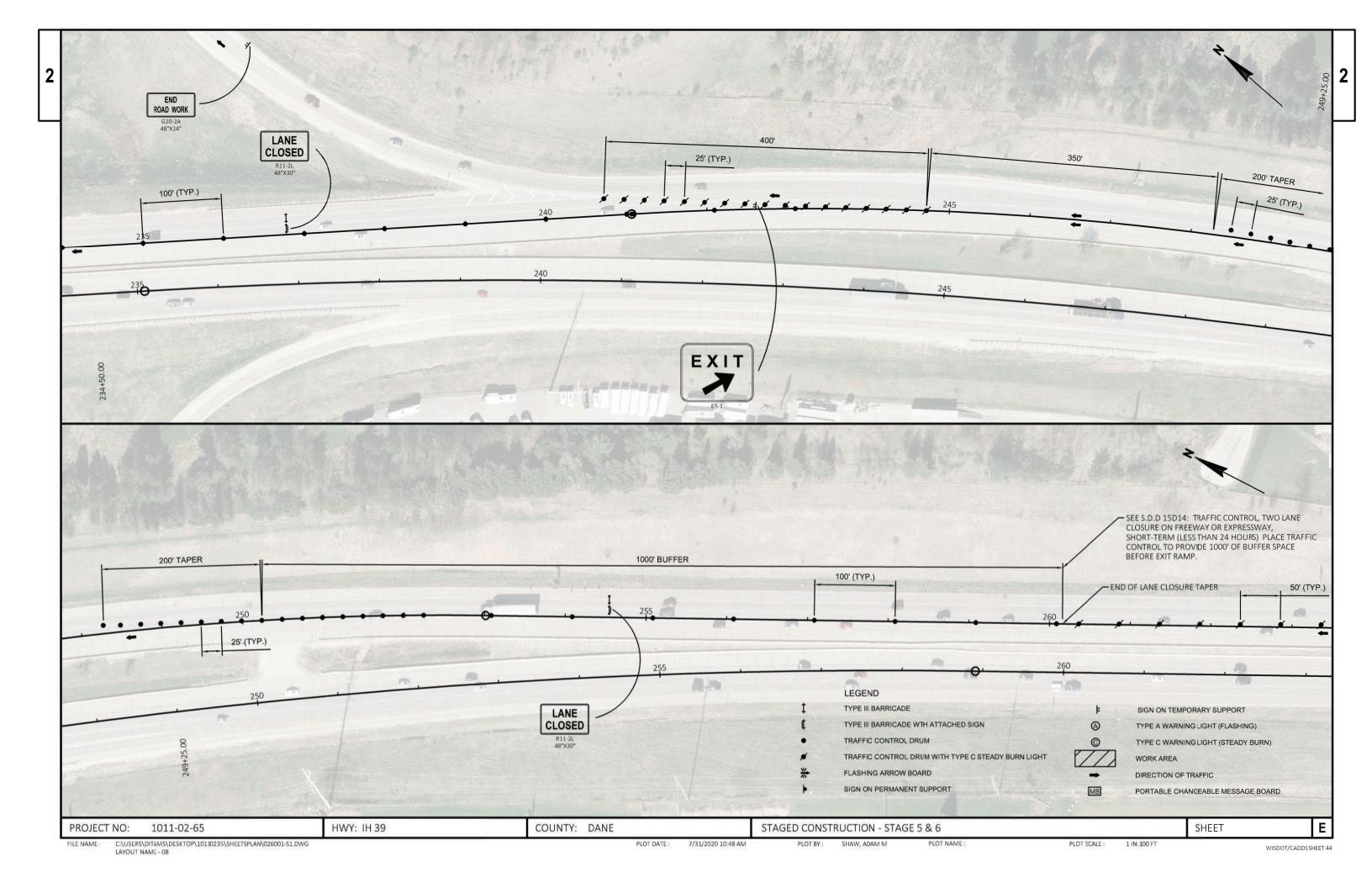


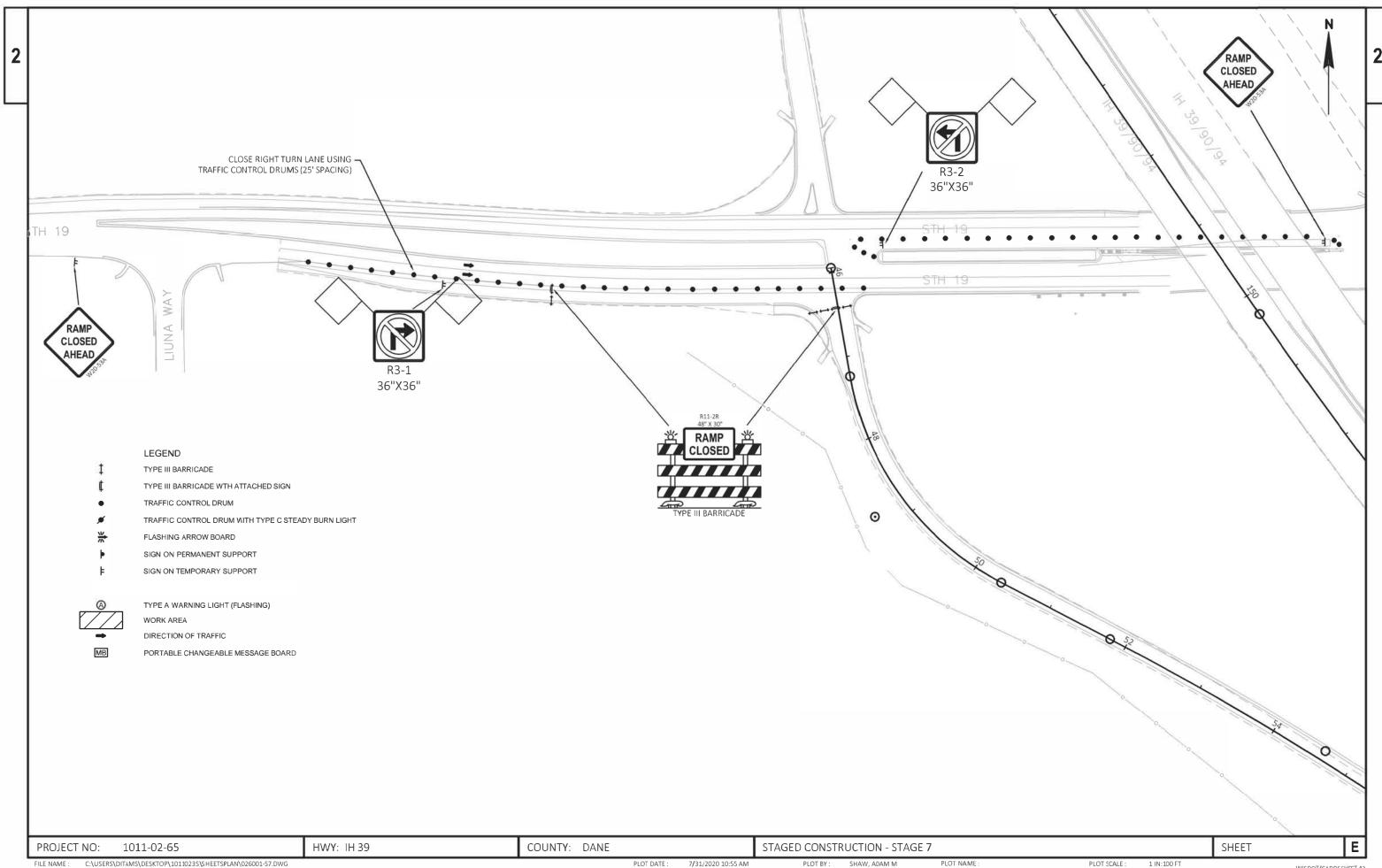




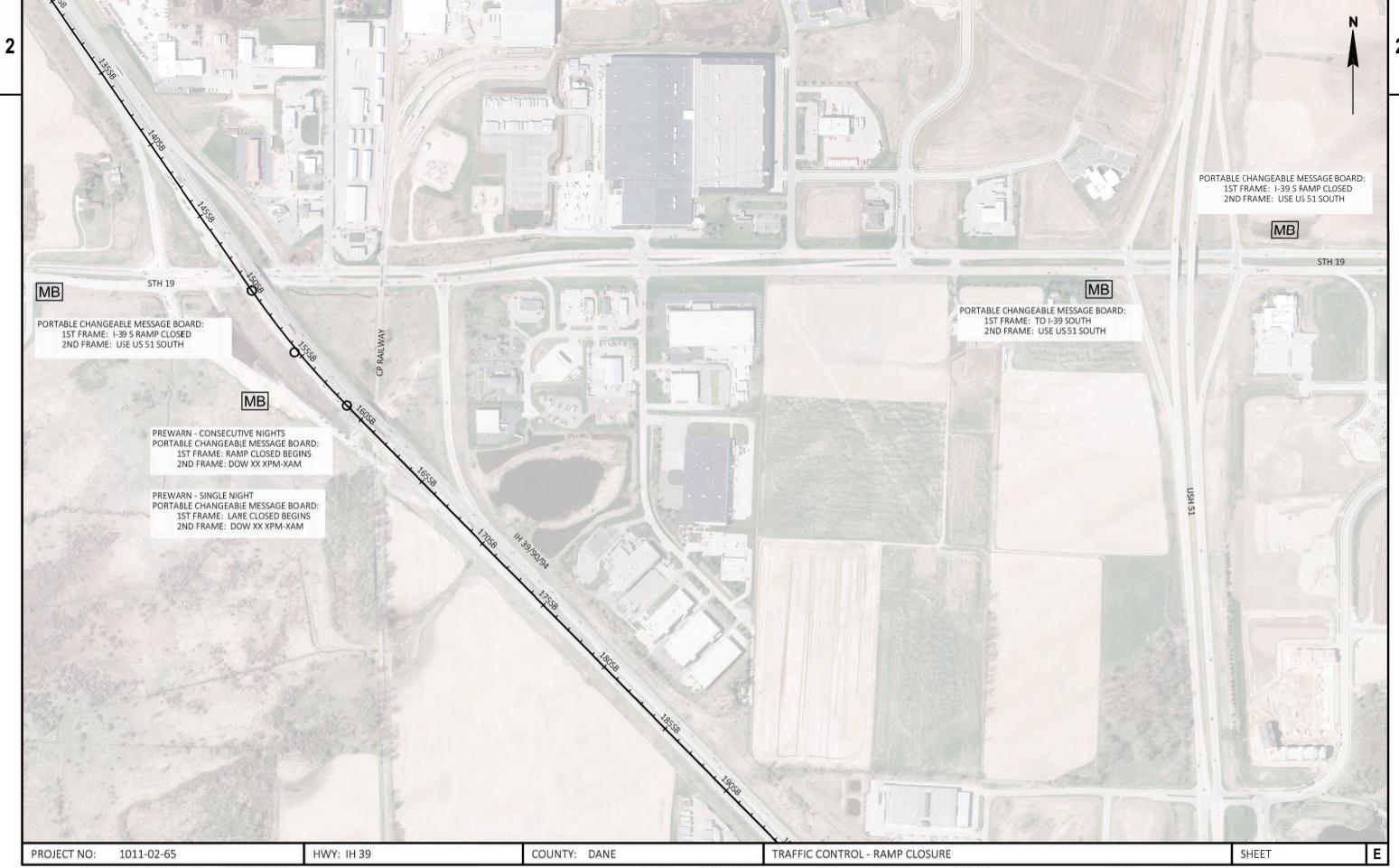








C:\USERS\DITAMS\DESKTOP\1011023S\SHEETSPLAN\026001-S7.DWG LAYOUT NAME - 01



FILE NAME : C:\USERS\DITAMS\DESKTOP\10130235\SHEETSPLAN\027001-DT.DWG LAYOUT NAME - 01

PLOT DATE: 7/31/2020 9:04 AM

TBY: SHAW, ADAM M

PLOT NAME :

PLOT SCALE: 1 IN:500 FT

WISDOT/CADDSSHEET 42

Estimate Of Quantities By Plan Sets

1011-02-65

Pa

Page	1
------	---

Line	Item	Item Description	Unit	Total	Qty
0004	213.0100	Finishing Roadway (project) 02. 1011-02-65	EACH	1.000	1.000
0010	509.1500	Concrete Surface Repair	SF	38.000	38.000
0012	509.5100.S	Polymer Overlay	SY	5,293.000	5,293.000
0014	619.1000	Mobilization	EACH	0.550	0.550
0018	643.0300	Traffic Control Drums	DAY	2,886.000	2,886.000
0020	643.0420	Traffic Control Barricades Type III	DAY	146.000	146.000
0022	643.0705	Traffic Control Warning Lights Type A	DAY	218.000	218.000
0024	643.0715	Traffic Control Warning Lights Type C	DAY	856.000	856.000
0026	643.0800	Traffic Control Arrow Boards	DAY	36.000	36.000
0028	643.0900	Traffic Control Signs	DAY	298.000	298.000
0030	643.1050	Traffic Control Signs PCMS	DAY	27.000	27.000
0032	643.5000	Traffic Control	EACH	0.550	0.550
0034	646.1020	Marking Line Epoxy 4-Inch	LF	2,262.000	2,262.000
0038	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	388.000	388.000

643 - TRAFFIC CONTROL

		643.0300	643.0420	643.0705	643.0715	643.0800	643.0900	643.1050	
			TRAFFIC	TRAFFIC	TRAFFIC				
		TRAFFIC	CONTROL	CONTROL	CONTROL	TRAFFIC		TRAFFIC	
		CONTROL	BARRICADES	WARNING	WARNING	CONTROL	TRAFFIC	CONTROL SIGNS	
		DRUMS	TYPEIII	LIGHTS TYPE A	LIGHTS TYPE C	ARROW BOARDS	CONTROL SIGNS	PCMS	
CATEGORY	LOCATION	DAY	DAY	DAY	DAY	DAY	DAY	DAY	REMARKS
0010	IH 39 SB	206	12	18	68	6	34	7	STAGE 1
0010	IH 39 SB	340	20	30	100	6	42	-	STAGE 2
0010	IH 39 SB	340	20	30	100	6	42	-	STAGE 3
0010	IH 39 NB	204	8	12	68	6	32	7	STAGE 4
0010	IH 39 NB	844	40	60	260	6	68	-	STAGE 5
0010	IH 39 NB	844	40	60	260	6	68	-	STAGE 6
0010	IH 39 SB ENTRANCE RAMP	108	6	8			12	13	STAGE 7
	TOTAL 0010	2,886	146	218	856	36	298	27	

646-PAVEMENT MARKING

646.1020 MARKING LINE EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	148+34	-	150+38	B-13-91	204	STAGE 1, SOLID
0010	148+34	-	150+38	B-13-91	51	STAGE 1, DASHED
0010	160+34	-	162+15	B-13-93	181	STAGE 1, SOLID
0010	160+34	-	162+15	B-13-93	46	STAGE 1, DASHED
0010	148+34	-	150+38	B-13-91	51	STAGE 2, DASHED
0010	160+34	-	162+15	B-13-93	46	STAGE 2, DASHED
0010	148+34	-	150+38	B-13-91	204	STAGE 3, SOLID
0010	160+34	-	162+15	B-13-93	181	STAGE 3, SOLID
0010	148+75	-	150+79	B-13-92	204	STAGE 4, SOLID
0010	159+71	-	161+51	B-13-94	181	STAGE 4, SOLID
0010	148+75	-	150+79	B-13-92	51	STAGE 5, DASHED
0010	159+71	-	161+51	B-13-94	46	STAGE 5, DASHED
0010	148+75	-	150+79	B-13-92	204	STAGE 6, SOLID
0010	148+75	-	150+79	B-13-92	51	STAGE 6, DASHED
0010	159+71	-	161+51	B-13-94	181	STAGE 6, SOLID
0010	159+71	=	161+51	B-13-94	46	STAGE 6, DASHED
0010	61+75	-	63+41	B-13-297	334	STAGE 7, SOLID
				TOTAL 0010	2,262	

TEMPORARY MARKING

649.0120

CATEGORY LOCATION LF

B-13-91, B-13-92, B-13-93 & 388

TOTAL 0010 388

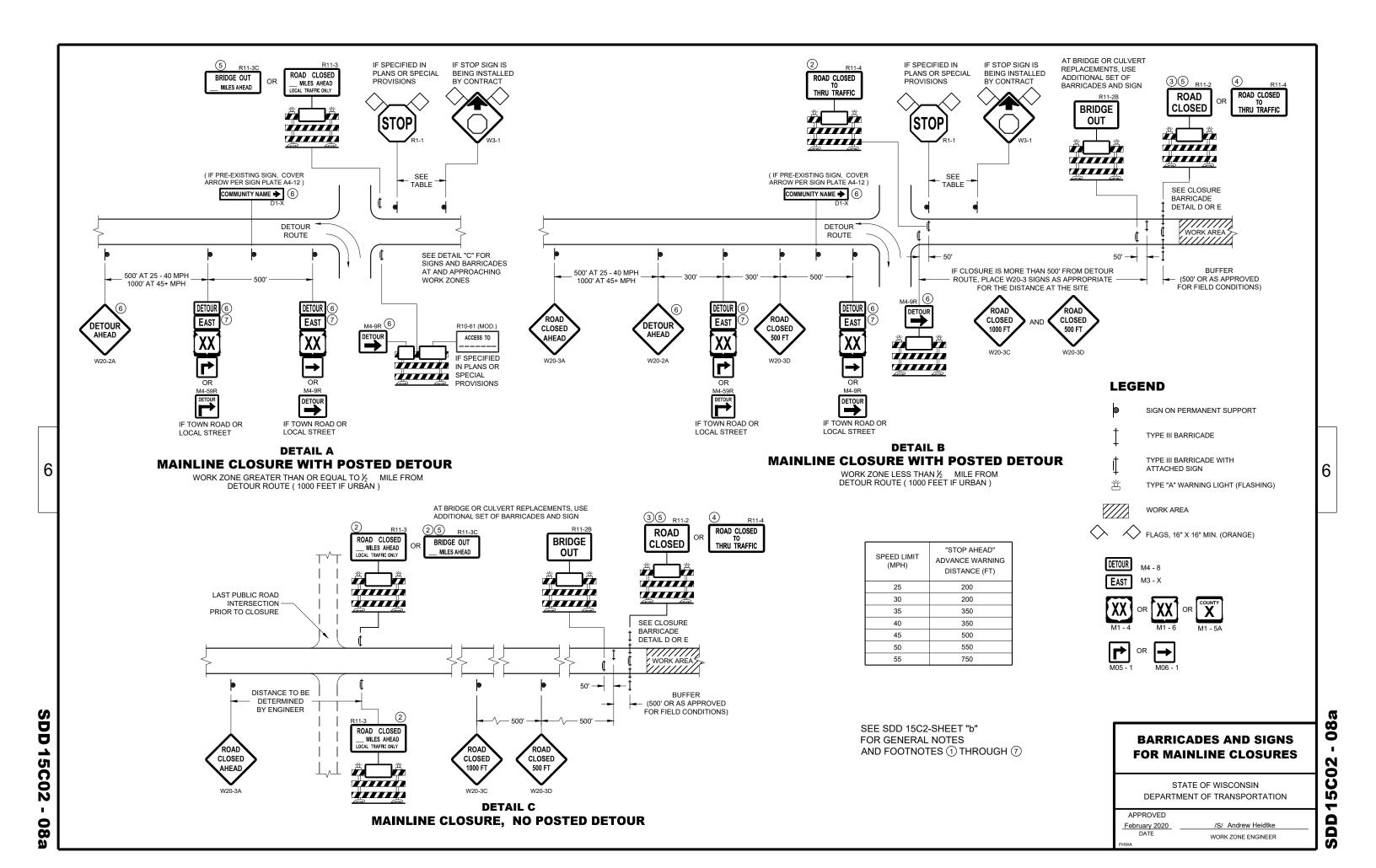
PROJECT NO: 1011-02-65 HWY: IH 39 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: **E**

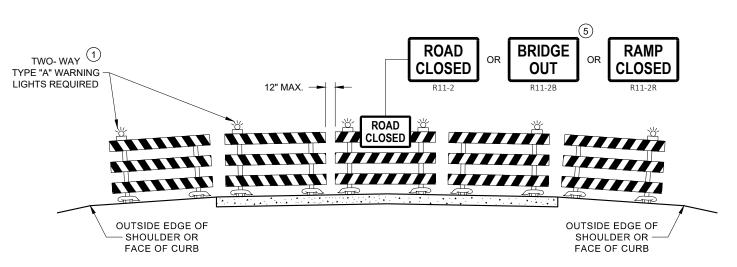
FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

Standard Detail Drawing List

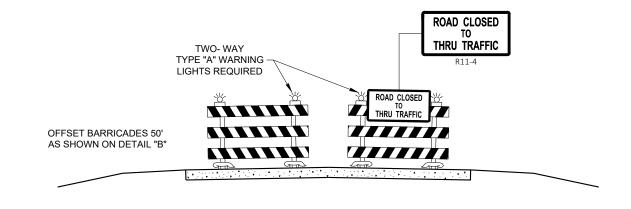
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08D	ON RAMP LANE CLOSURE
15C02-08E	OFF RAMP LANE CLOSURE
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D14-04	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D15-05A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-05C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-05D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-05E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

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

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

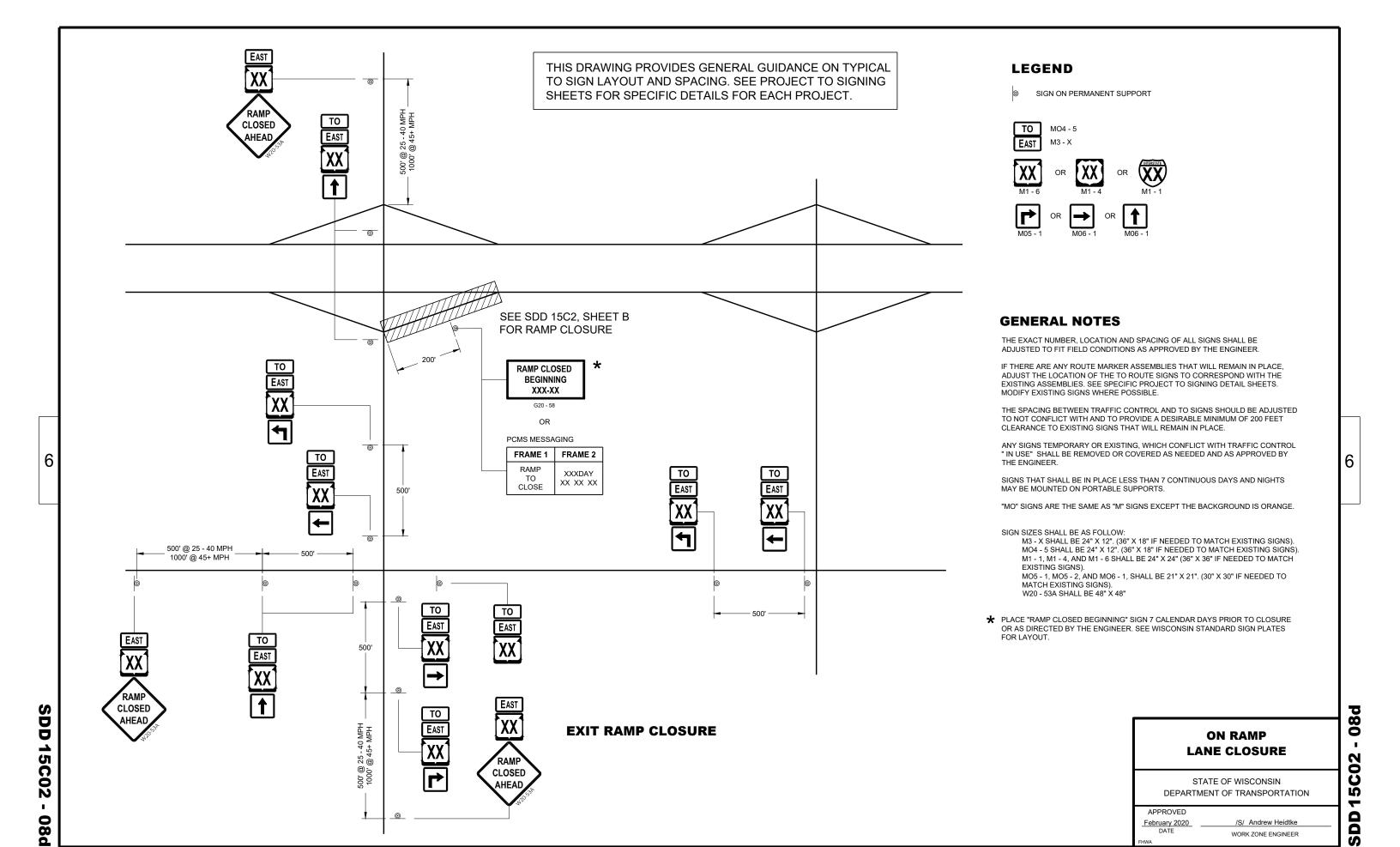
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

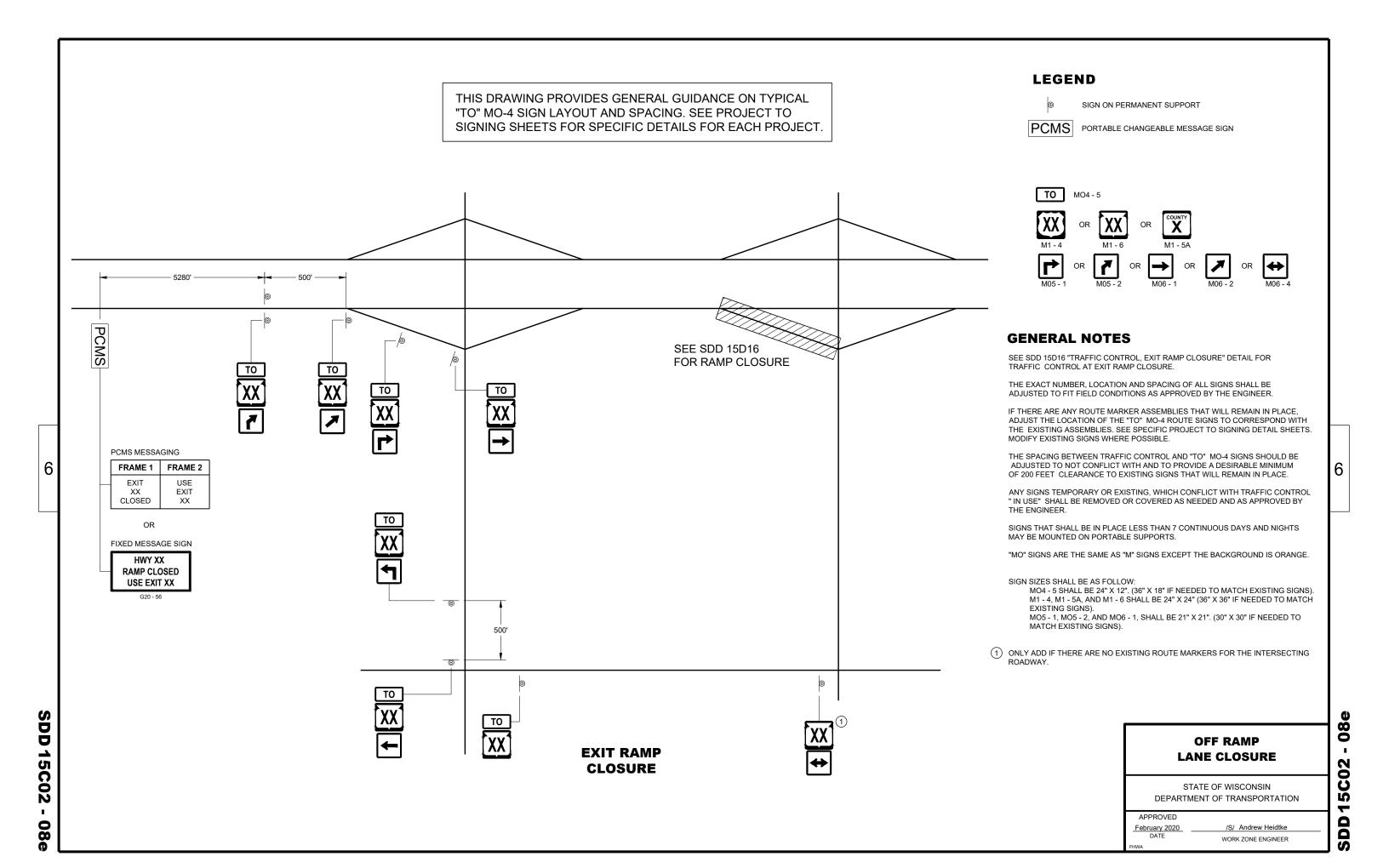
APPROVED

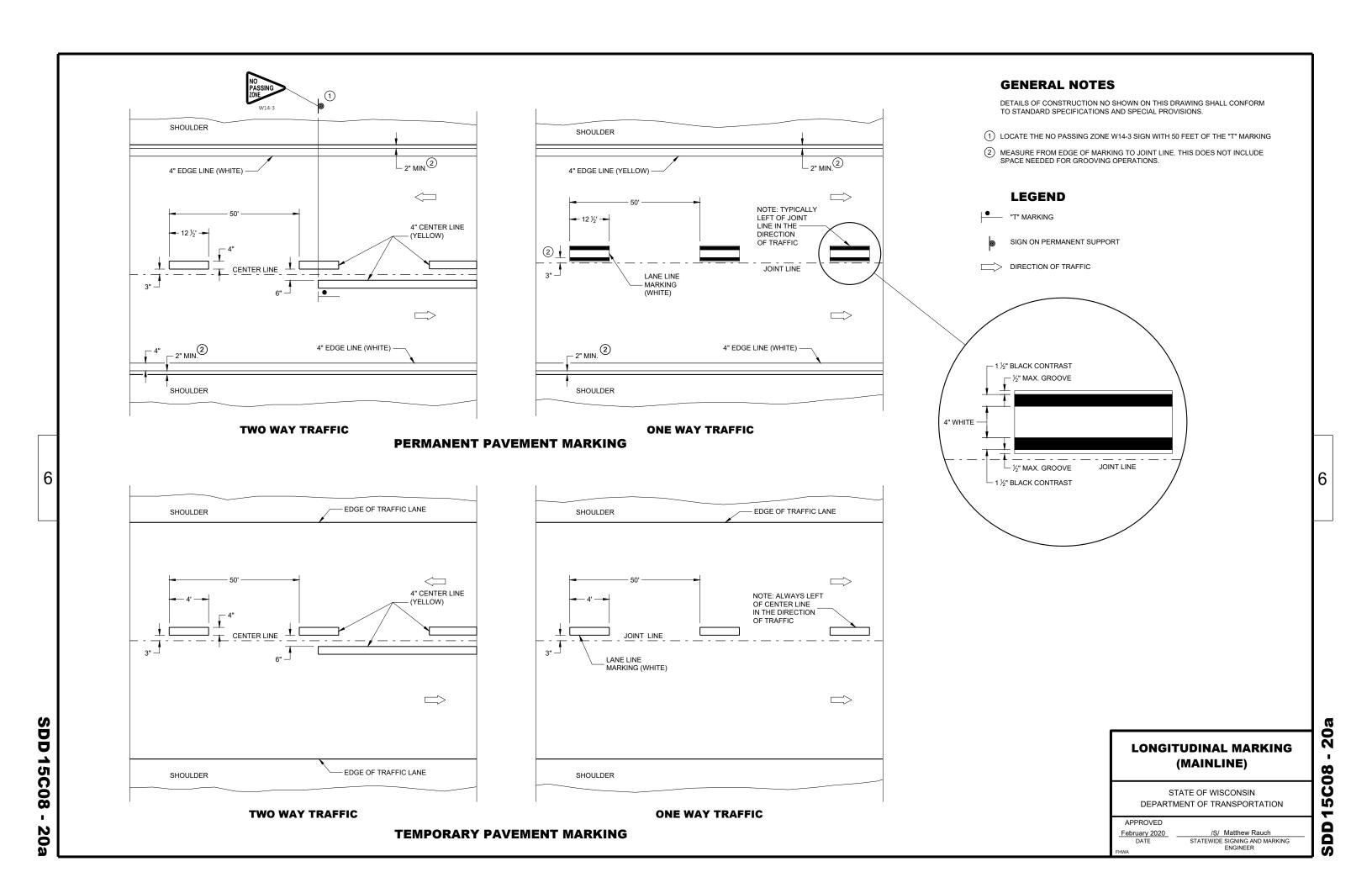
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

DD 15C02 - 08

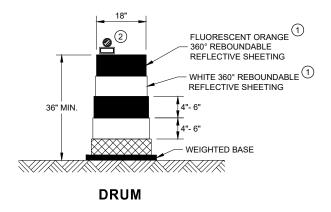


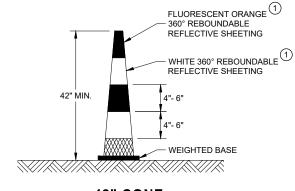


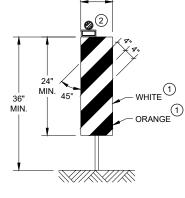


GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





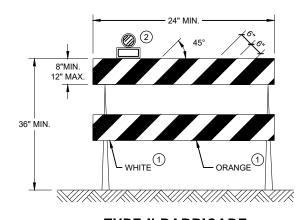


42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS

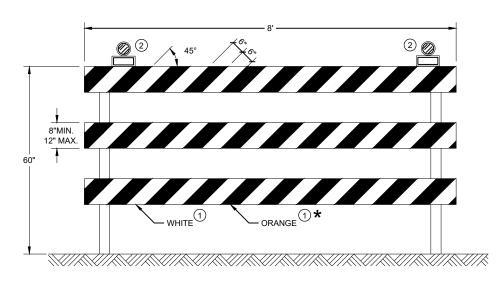
VERTICAL PANEL

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



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 08

15C

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

GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

August 2020 DATE /S/ Andrew Heidtke

WORK ZONE ENGINEER

TYPE III BARRICADE WITH ATTACHED SIGN

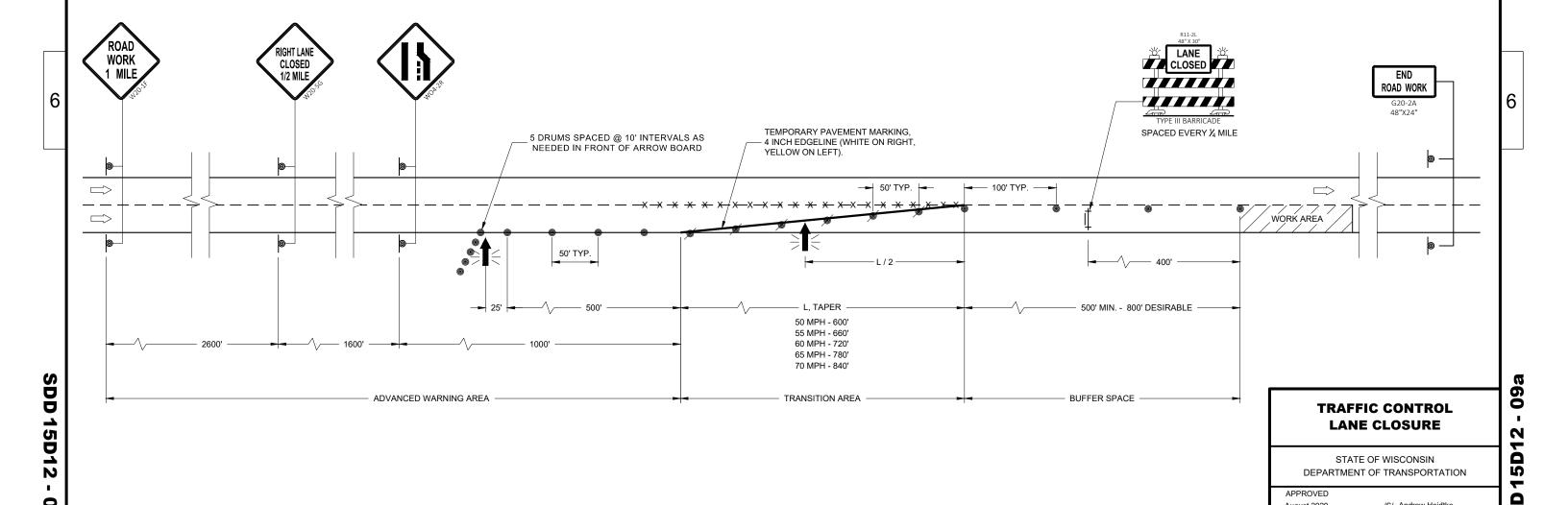
TYPE "A" WARNING LIGHT (FLASHING)

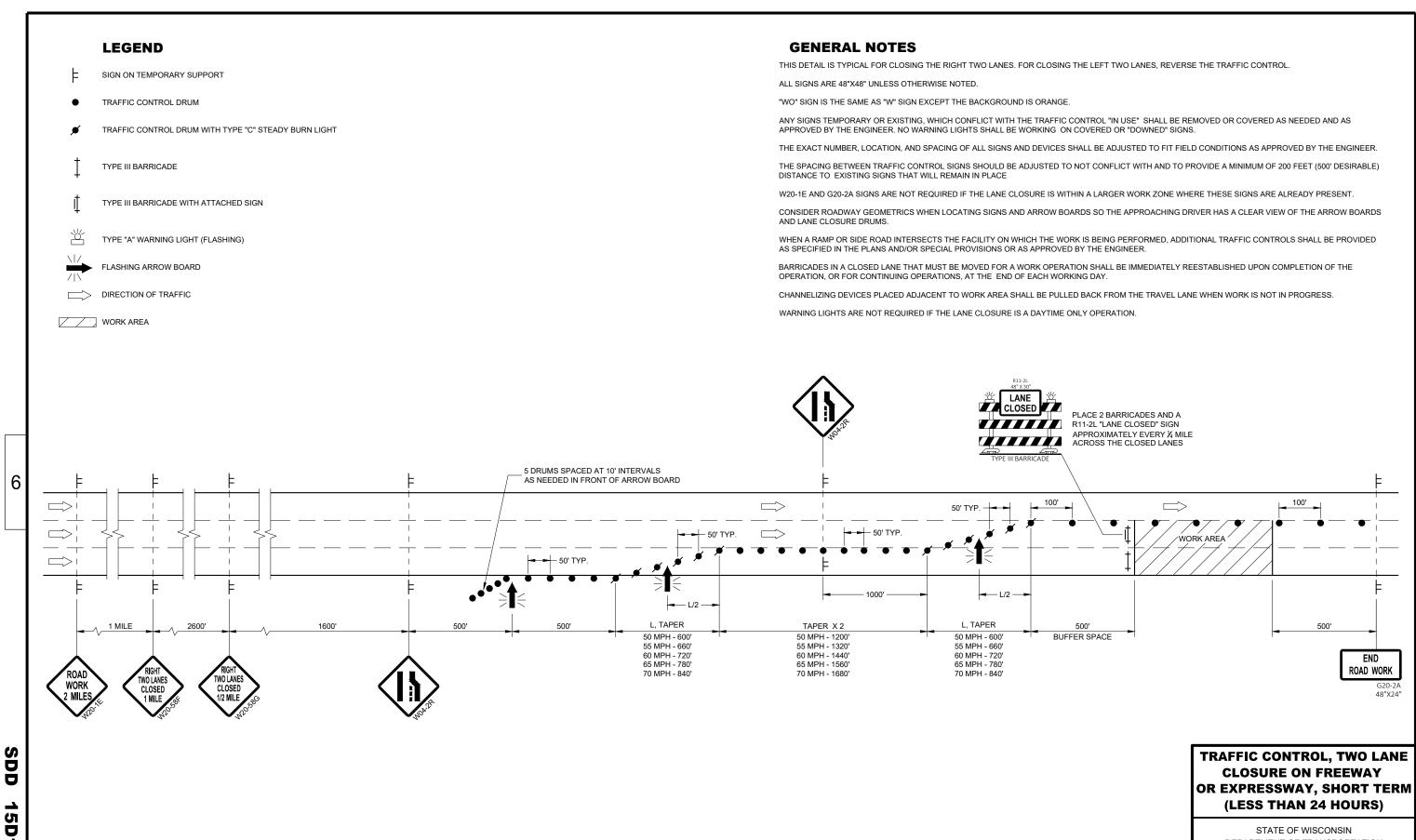
-X-X-X- REMOVING PAVEMENT MARKINGS

DIRECTION OF TRAFFIC

WORK AREA

FLASHING ARROW BOARD





4

0

4 D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

APPROVED May 2020 DATE

6

(PLACE 500' IN

ADVANCE OF GORE)

(PLACE 1000' IN

ADVANCE OF GORE

0

S

S

LANE CLOSED

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

100' (TYP.)

LANE CLOSED

SDD 15D15

(PLACE 500' IN

ADVANCE OF WO3-2)

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

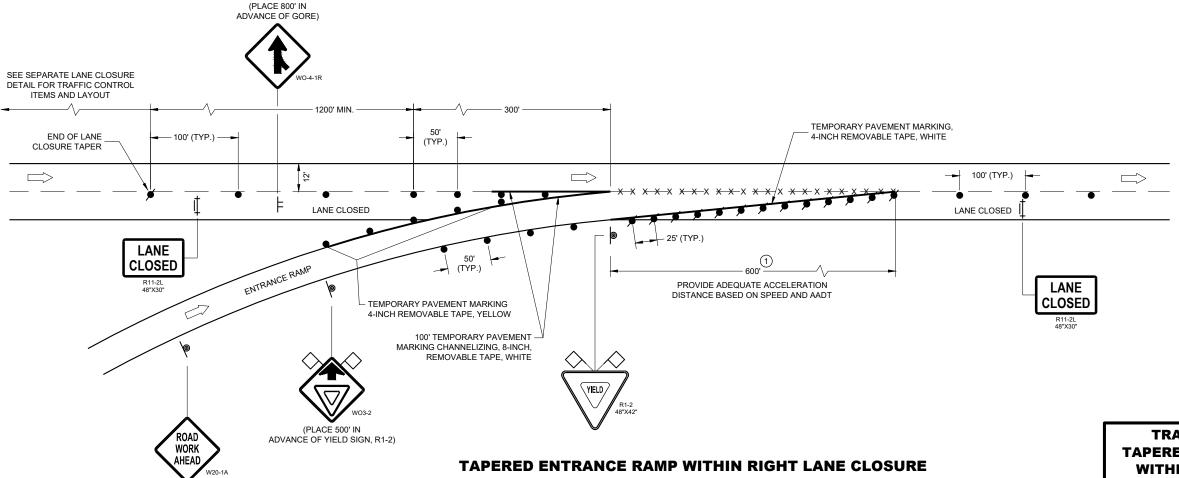
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.



TRAFFIC CONTROL, **TAPERED ENTRANCE RAMP** WITHIN LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019
DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER 0

S

S

TAPERED ENTRANCE RAMP WITHIN LEFT LANE CLOSURE

(PLACE 500' IN

ADVANCE OF WO3-2)

0 S S

TRAFFIC CONTROL, **TAPERED ENTRANCE RAMP** WITHIN LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

▼ TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

X-X-X -X REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

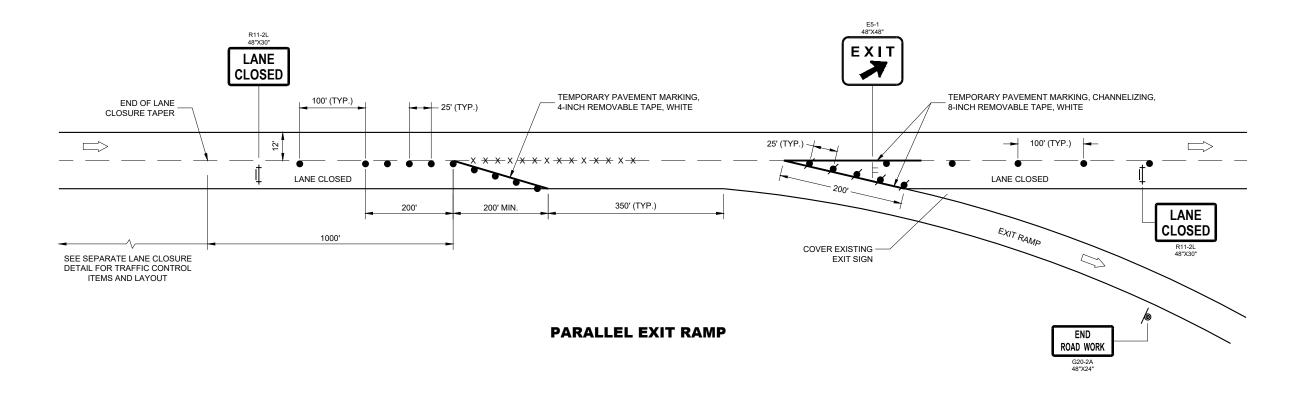
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019

DATE

/S/ Andrew Heidtke

WORK ZONE ENGINEER

6

SDD 15D15 - 0

SDD 15D15 - 05e



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D D 15 D ∞

6

Δ

 ∞

6

- 11/2" DIAMETER HOLES

Ω

Ω

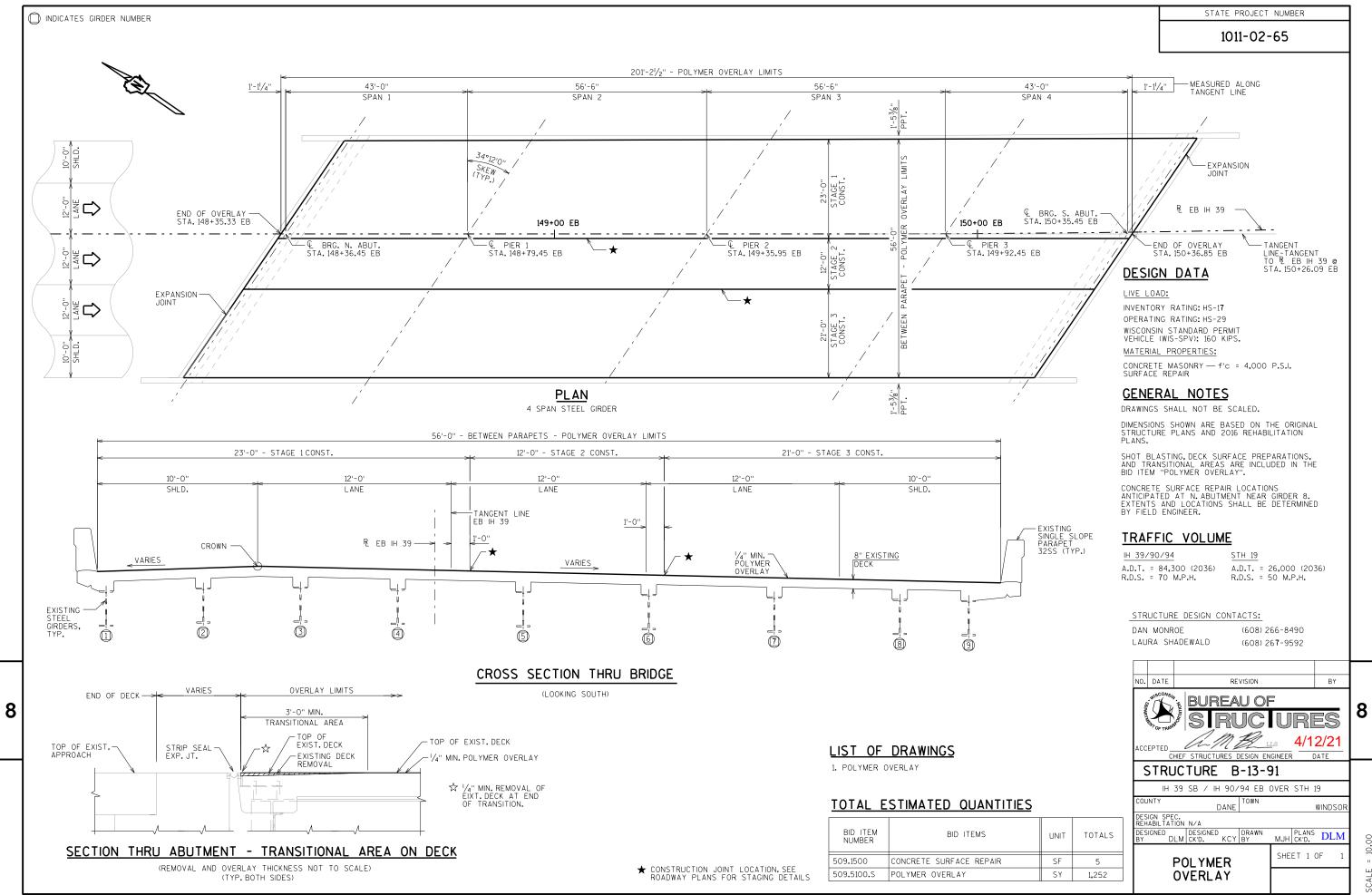
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

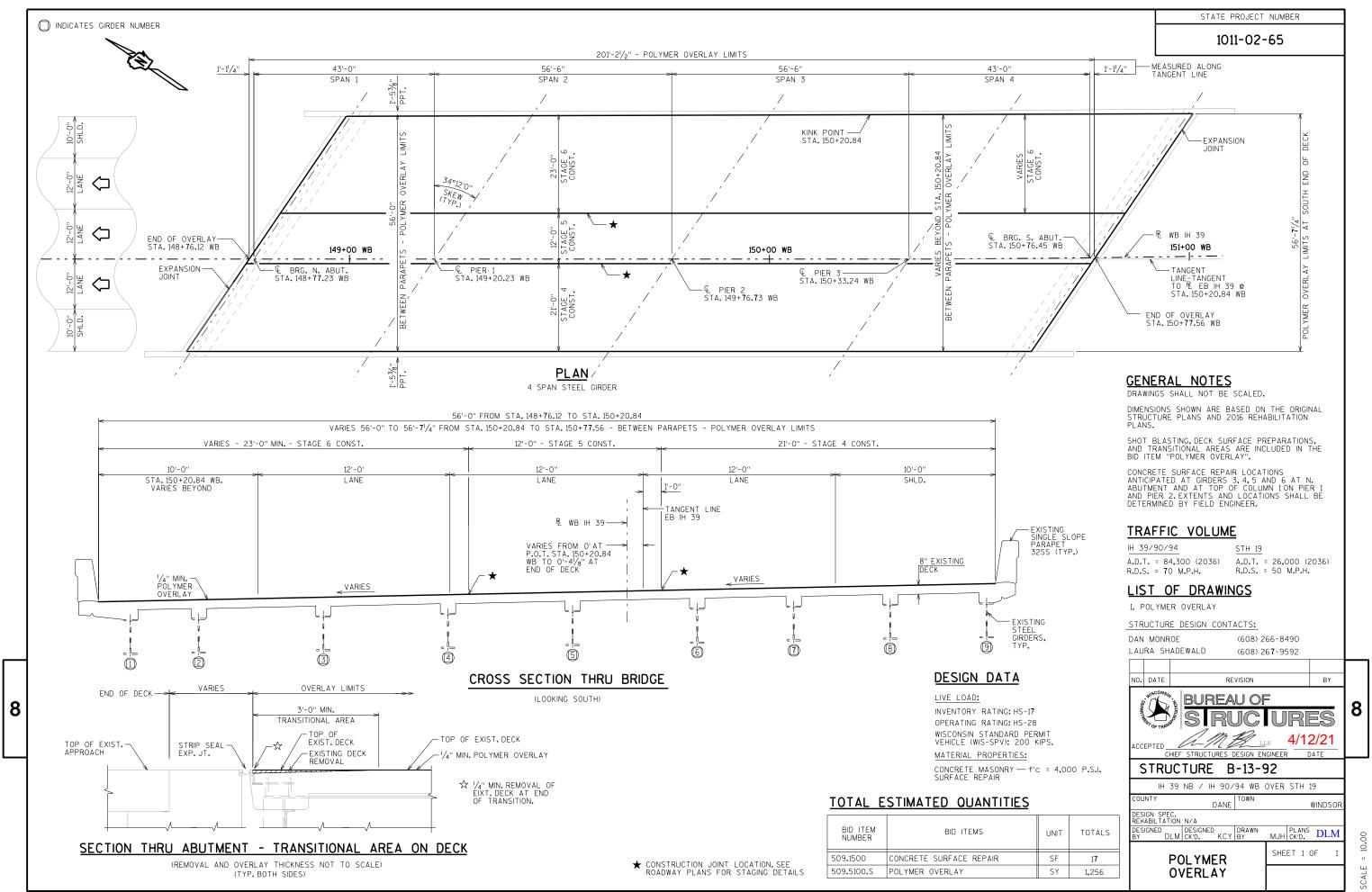
APPROVED

June 2017 DATE

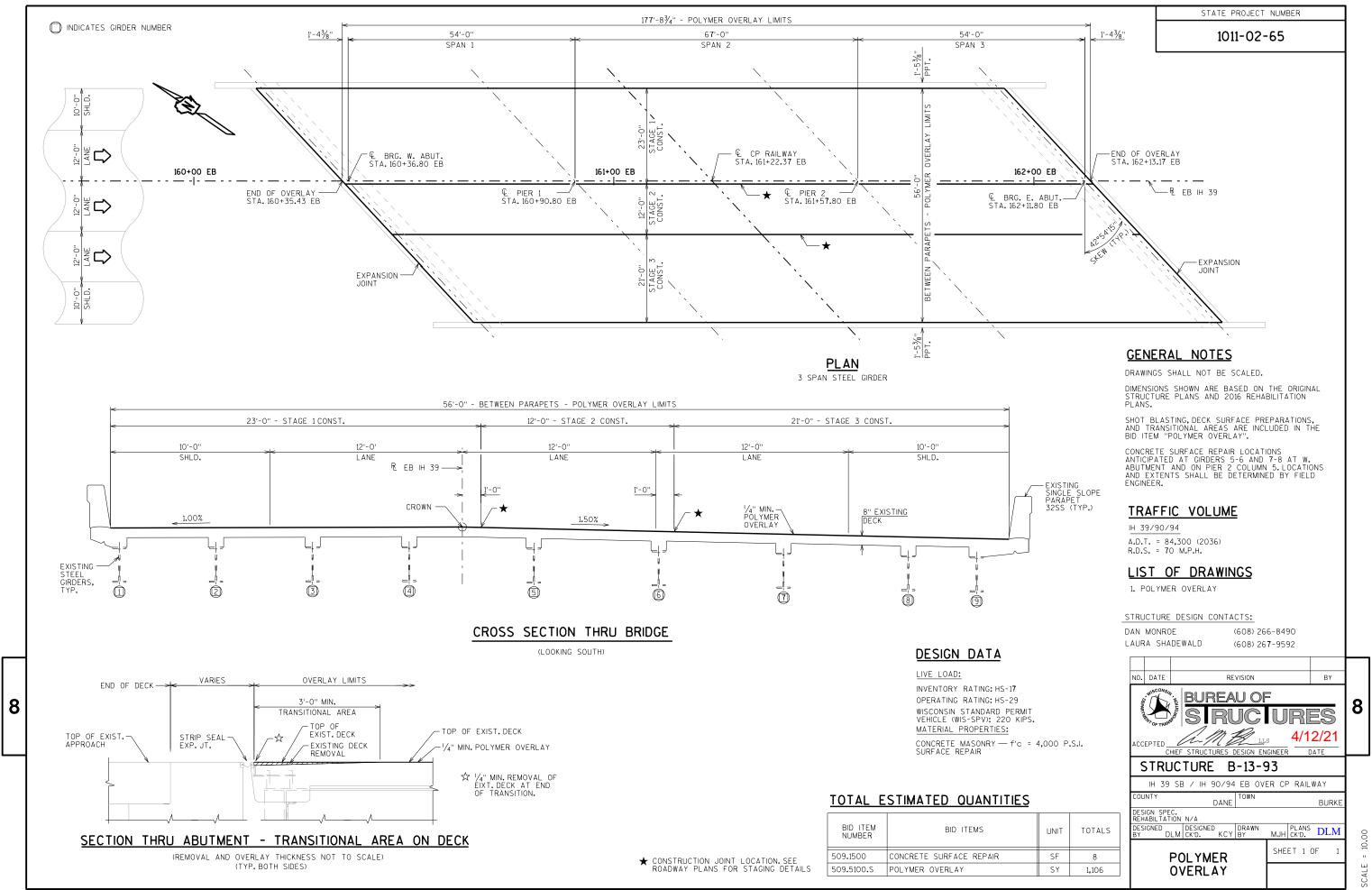
0 ∞ **2**D

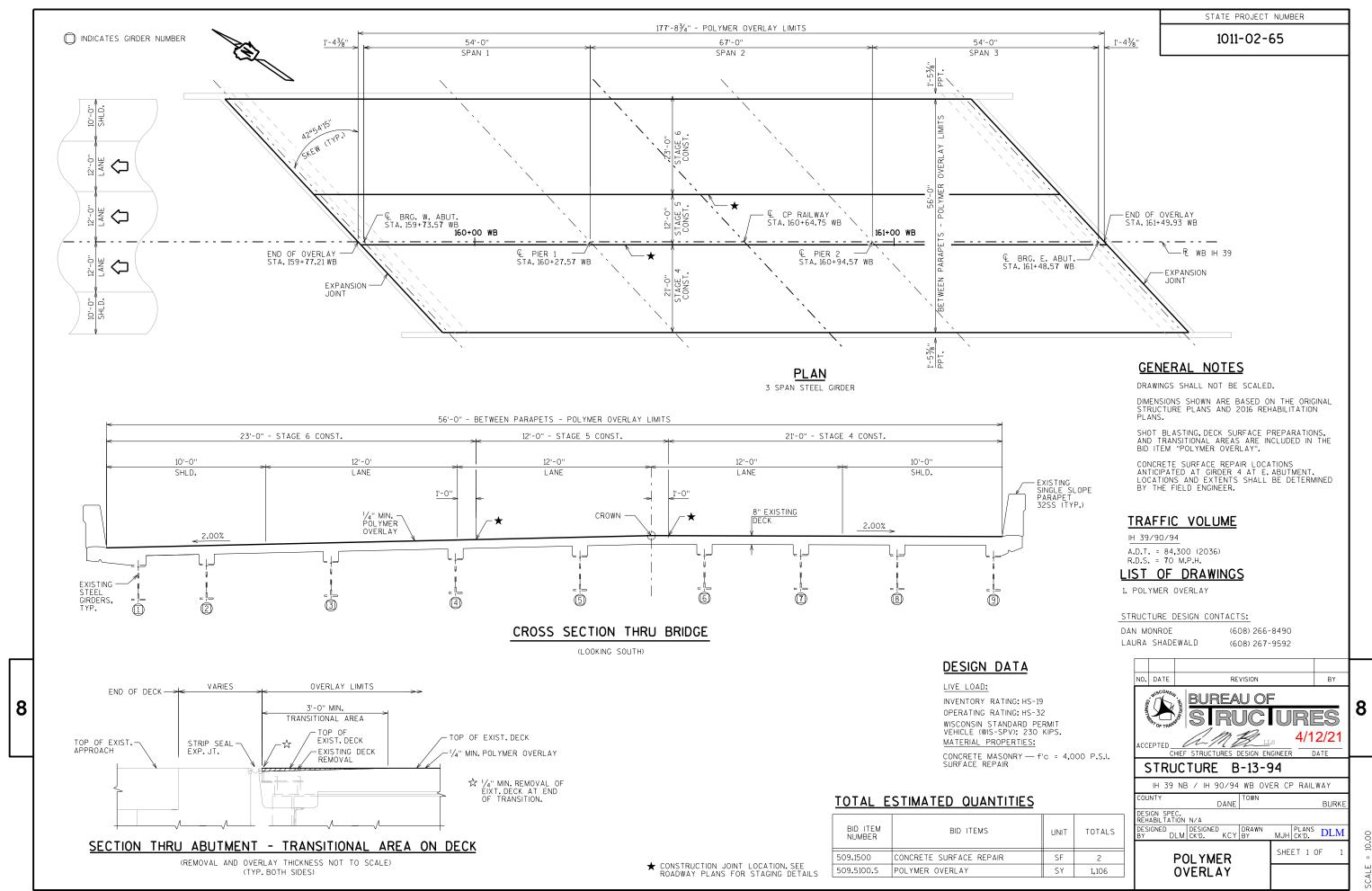


DATE: AUG. 2020

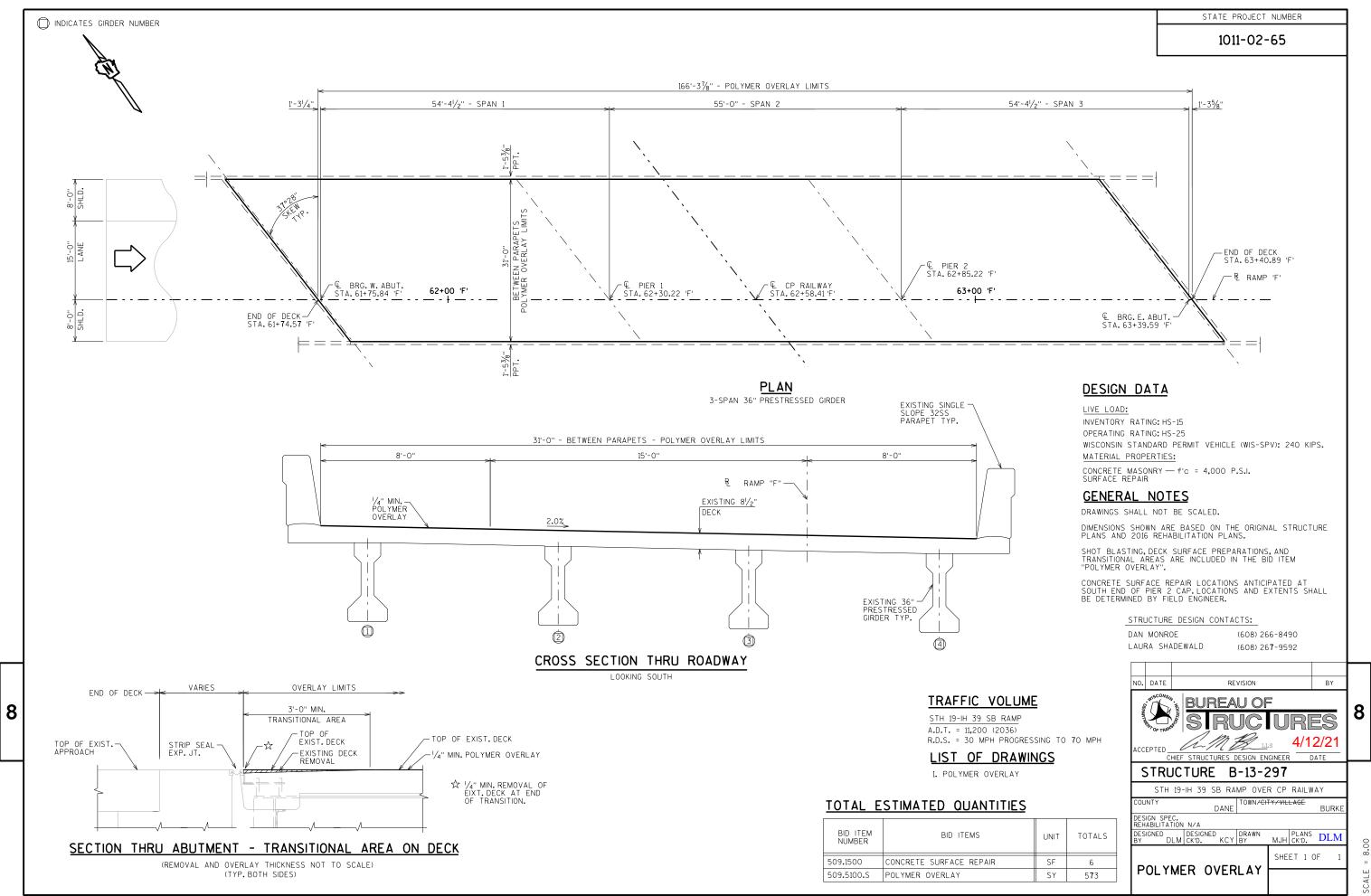


DATE: AUG. 2020

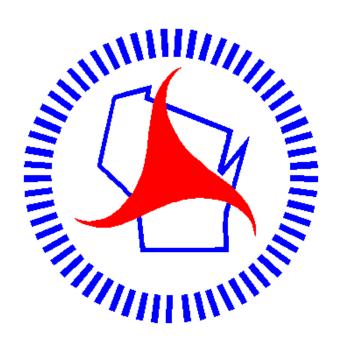




DATE: MARCH 2021



Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov