03-11-2022 LETTING ITEM 008

PROJECT LOCATED IN **VILLAGE OF SHOREWOOD** AND CITY OF JOLIET

**DESIGN DESIGNATION:** 

**BLACK ROAD** 

**BLACK ROAD** 

**POSTED SPEED:** 

**BLACK ROAD** 

ADT:

FOR INDEX OF SHEETS, SEE SHEET NO. 2

MINOR ARTERIAL

2019

24,300

**40 MPH** 

SN 099-0209

BLACK ROAD STA. 19+42.20

STA. 20+99.80

BEGIN IMPROVEMENTS

## STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

**FINAL** 

2020-163-BR WILL ILLINOIS CONTRACT NO. 62M50 **★** 65 + 12 = 77 TOTAL SHEETS

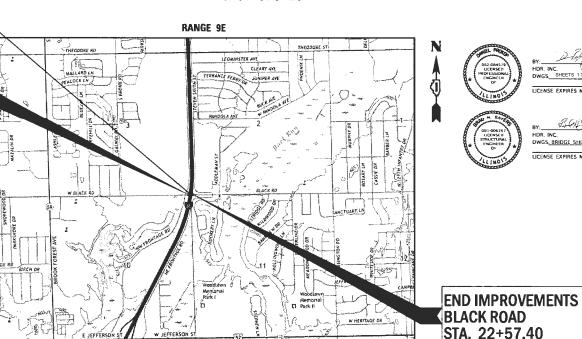
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D-91-579-20

# **PROPOSED HIGHWAY PLANS**

F.A.I. ROUTE 55: I-55 BARACK OBAMA PRESIDENTIAL EXPRESSWAY AT BLACK ROAD (BRIDGE CARRYING BLACK ROAD OVER I-55) **SECTION 2020–163–BR** PROJECT NHPP-UUD8(263) **BRIDGE REHABILITATION** WILL COUNTY

C-91-378-20



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION REGIONAL ENGINEER

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REVISED SHEET 2/25/2022

**CONTRACT NO. 62M50** 

1-800-892-0123

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS

CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432

PROJECT MANAGER: FAWAD AQUEEL (847) 705-4211

GROSS LENGTH = 315.20 FT. = 0.06 MILE NET LENGTH = 315.20 FT. = 0.06 MILE

TROY TOWNSHIP

**LOCATION MAP** 

9450 W. Bryn Mawr Ave., Suite 400 Chicago, IL 60018

DESIGN FIRM REGISTRATION NUMBER 184 001070

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REV-SEP

	<u>INI</u>	DEX	OF :	SHEETS	HIGHWAY	STANDARDS CONT.
	DRA	WING	NO.	DESCRIPTION	STANDARD NO.	TITLE
	1			COVER SHEET	280001-07	TEMPORARY EROSION CONTROL SYSTEMS
	2			INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES	420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
	3	то	6	SUMMARY OF QUANTITIES	424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
	7			SCHEDULE OF QUANTITIES	424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
	8	то	9	TYPICAL SECTIONS	424021-06	DEPRESSED CORNER FOR SIDEWALKS
	10	то	17	MAINTENANCE OF TRAFFIC & DETOUR PLAN	442201-03	CLASS C AND D PATCHES
	18			ROADWAY REMOVAL PLAN	606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
	19			ROADWAY PROPOSED PLAN	630001-12	STEEL PLATE BEAM GUARDRAIL
	20			PAVEMENT OVERLAY DETAIL	630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
<u>/î</u>	21	то	23	PAVEMENT MARKING PLAN	631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
Notes	23A	то	23E)	TEMPORARY TRAFFIC SIGNAL PLANS	701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
General Notes	24	то	44	STRUCTURAL PLANS - BLACK ROAD BRIDGE (SN 099-0209)	701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
dards &	45			BUTT JOINT AND HMA TAPER DETAILS (BD400-05 BD-32)	701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
Highway Star	45A	~~~	~~~	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY.1 SPL. (BD600-10 BD-34)	701301-04	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
	46	•		BENCHING DETAIL FOR EMBANKMENT WIDENING (BD-51)	701311-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
dex of Sh	47			TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING (BE-805)	701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
adway\Inc	48			PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE (BM-20)	701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
Sheet(Roadway/Index of Sheets,	49	то	52	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL (BM-21)	701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS $\leq$ 40 MPH
	53	то	55	TYPE 6 TERMINAL FOR USE WITH 21" HIGH SPBGR (BM-22)	701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
BIM/6.2 WIP\6.2.3 CADD	56			TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS,	701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
D BIM\6.2				INTERSECTIONS, AND DRIVEWAYS (TC-10)	701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
∆6.0 CAD	57			TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)	701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
Black Ro	58			DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701901-08	TRAFFIC CONTROL DEVICES
199-15 TO3 Black	59			TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	704001-08	TEMPORARY CONCRETE BARRIER
	60			SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS	720001-01	SIGN PANEL MOUNTING DETAILS
9-15\IDOJ	61			(TC-16) TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES	720006-04	SIGN PANEL ERECTION DETAILS
ents/ILDOT/IDOT Phs    Serv Various TO s 199-15/IDOT PTB	01			AND PARTIAL RAMP CLOSURES (TC-17)	720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
Various	62			DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)	725001-01	OBJECT AND TERMINAL MARKERS
s II Serv	63			ARTERIAL ROAD INFORMATION SIGN (TC-22)	728001-01	TELESCOPING STEEL SIGN SUPPORT
VIDOT P	64	то	65	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)	729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
nts/][DO	HI	GHV	VAY	STANDARDS	731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
01\Docume	-	NDARD		TITLE	780001-05	TYPICAL PAVEMENT MARKINGS
entral 01		001-08		STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS	781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
en01:HDR US Central	0010	001-02		AREAS OF REINFORCEMENT BARS	782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
ndruscen01:H	0010	006		DECIMAL OF AN INCH AND A FOOT		

#### **GENERAL NOTES**

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY
  OF JOLIET, AND THE VILLAGE OF SHOREWOOD.
- 2. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 4. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV AND THE EXPRESSWAY FIELD ENGINEER AT (847) 705-4155, A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- 5. THE CONTRACTOR SHALL CONTACT EMAD ALHUSSEINI, AREA TRAFFIC FIELD ENGINEER, AT EMAD.ALHUSSEINI@ILLINOIS.GOV AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 5. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
- ANY SIGNAGE, PAVEMENT MARKINGS, AND REFLECTORS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 8. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE DURATION OF THE CONTRACT AND MAINTAIN ALL PUBLIC AND PRIVATE DRAINS. TEMPORARY DRAINAGE STRUCTURES MAY BE REQUIRED AND SHALL BE CONSTRUCTED AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE CONTRACT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- 10. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 11. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC.
- 12. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
- 13. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- 14. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- 15. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ACROSS THE SOUTH LEF OF NW FRONTAGE ROAD AT ALL TIMES.

## **COMMITMENTS**

NONE

REVISED SHEET 2/24/2022

HDR 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018

USER NAME = YPARK	DESIGNED	-	MSM	REVISED	-	<u> 1</u> 2/16/2022
	DRAWN	-	YP	REVISED	-	
PLOT SCALE = 100.0000 ' / in.	CHECKED	-	DP	REVISED	-	
PLOT DATE = 2/16/2022	DATE	-	12/17/2021	REVISED	_	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES I-55 AT BLACK ROAD									
		I-	55 A	T	BLACK ROA	D			
SCALE:	SHEET	1	OF	1	SHEETS STA		TO STA	۹.	

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY URBAN	0059 BRIDGE RESURFACING 90% FED/ 10% STATE	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	53	53	
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	90	90	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	203	203	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	407	407	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	378	378	
40600990	TEMPORARY RAMP	SQ YD	14	14	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	64	64	
42001300	PROTECTIVE COAT	SQ YD	81	81	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	289	289	
44004250	PAVED SHOULDER REMOVAL	SQ YD	77	77	
50102400	CONCRETE REMOVAL	CU YD	15.8	15.8	
50157300	PROTECTIVE SHIELD	SQ YD	682	682	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	18.2	18.2	
50300260	BRIDGE DECK GROOVING	SQ YD	1,137	1,137	
50300300	PROTECTIVE COAT	SQ YD	1,936	1,936	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	220	220	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,430	2,430	
50800515	BAR SPLICERS	EACH	24	24	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	110.0	110.0	

**LEGEND** 

\*- DENOTES
SPECIALTY ITEM

REVISED SHEET 2/24/2022

HDR 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

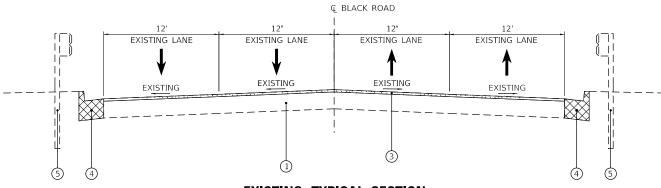
I-55 AT BLACK ROAD

SHEET 2 OF 4 SHEETS STA.

TO STA.

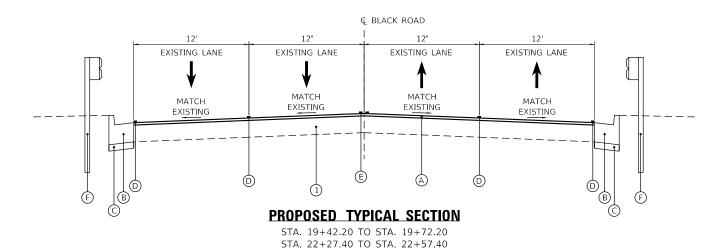
SCALE:

	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY URBAN	0059 BRIDGE RESURFACING 90% FED/ 10% STATE		CODE NO.		DESCRIPTION	UNIT	TOTAL QUANTITY URBAN	0059 BRIDGE RESURFACING 90% FED/ 10% STATE	
-	52100520	ANCHOR BOLTS, 1"	EACH	1	1	_	70307210	TEMPORARY PAVEME	ENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	115	115 97	
-	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	281	281		70400100	TEMPORARY CONCRE	ETE BARRIER	FOOT	537.5	537.5	
_												· · · · · · · · · · · · · · · · · · ·	<u></u>
-	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	163	163	-	70400200	RELOCATE TEMPORA	RY CONCRETE BARRIER	FOOT	1,400 462.5	1,400 462.5	3
	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	-	70600241	IMPACT ATTENUATOR	RS, TEMPORARY (NON- REDIRECTIVE, NARROW),	EACH	2 1	2	
-	63200310	GUARDRAIL REMOVAL	FOOT	250	250		70600341	IMPACT ATTENUATOR	RS, RELOCATE (NON- REDIRECTIVE, NARROW),	EACH	5	5 1	
-	63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	43	43	<u>}</u> *	78000100	THERMOPLASTIC PAV	/EMENT MARKING - LETTERS AND SYMBOLS	SQ FT	247	247	_
	63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	1	1	*	78000200	THERMOPLASTIC PAV	/EMENT MARKING - LINE 4"	FOOT	12,574	12,574	_
	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	85	85	*	78000400	THERMOPLASTIC PAV	/EMENT MARKING - LINE 6"	FOOT	1,085	1,085	_
	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	*	78000600	THERMOPLASTIC PAV	/EMENT MARKING - LINE 12"	FOOT	910	910	
-	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	*	78000650	THERMOPLASTIC PAV	/EMENT MARKING - LINE 24"	FOOT	107	107	
							>		PAVEMENT MARKING, TYPE B - LINE 7"	FOOT	264	264	1
-	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	*	<del>78004235</del>	PREFORMED PLASTIC	PAVEMENT MARKING, TYPE B - INLAID - LINE	-F00T	2,372	2,372	
							www.		E PAVEMENT MARKING - LINE 4"	F00T	2,109 -7 264	2,109 264	3
-	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	20	20	*	78011040	GROOVING FOR REC	ESSED PAVEMENT MARKING 8"	FOOT	2,372	2,372	3
	67100100	MOBILIZATION	L SUM	1	1	*	78100100	RAISED REFLECTIVE	PAVEMENT MARKER	EACH	40	40	_
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12	*	78100300	REPLACEMENT REFLE	ECTOR	EACH	236	236	
-	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	6,308 5,323	6,308 5,323	*	78200006	GUARDRAIL REFLECT	TORS, TYPE B	EACH	31	31	
	70207455	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV	CO 57	turiuu.		1./	702222	DARRIER WAY TO	ECTORS TWO C	F. C			
	70307100	TAPE	SQ FT	73	73		/8200011	BARRIER WALL REFL	ECTURS, TYPE C	EACH	24	24	
-	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	15,939 13,313	15,939 13,313		78300200	RAISED REFLECTIVE	PAVEMENT MARKER REMOVAL	EACH	40	40	
-	70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	1,388 1,237	1,388 1,237	3	78300202	PAVEMENT MARKING	REMOVAL - WATER BLASTING	SQ FT	5,886	5,886	<u>LEGEND</u>
L						_							*- DENOTES SPECIALTY
		USER NAME = MMICZEK DESIGNED - MSM I	REVISED -	T				Г	Autoria		F.A.I. RTE.		ISED SHEET 2/2
7	HDR 9450 W. BRYN M. ROSEMONT, IL 60	DRAWN - MSM I	REVISED -				F ILLINOIS		SUMMARY OF QUANTITIE I-55 AT BLACK ROAD	:5	RTE. 55		WILL
•	ROSEMONT, IL 60		REVISED -		DEPARTM	ENT OF	TRANSPOR	RTATION	SCALE: SHEET 3 OF 4 SHEETS STA.				CONTRACT N



## **EXISTING TYPICAL SECTION**

STA. 19+42.20 TO STA. 19+72.20 STA. 22+27.40 TO STA. 22+57.40

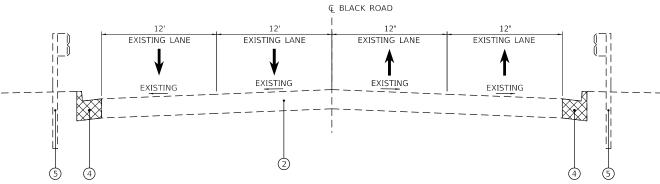


#### **EXISTING LEGEND**

- 1 EXISTING HOT-MIX ASPHALT PAVEMENT
- ② EXISTING CONCRETE APPROACH SLAB
- 3 HMA SURFACE REMOVAL BUTT JOINT
- 4 COMBINATION CONCRETE CURB & GUTTER REMOVAL
- (5) EXISTING GUARDRAIL

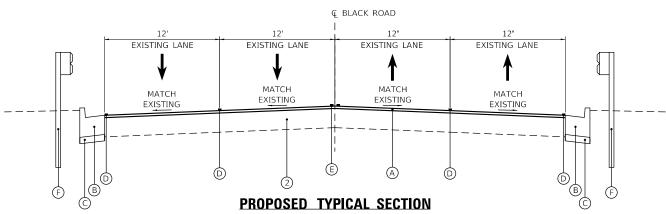
#### PROPOSED LEGEND

- A) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 (1.5")
- B PROPOSED CONCRETE CURB AND GUTTER, TYPE B-6.24
- © SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (D) THERMOPLASTIC PAVEMENT MARKING LINE 4", WHITE
- E THERMOPLASTIC PAVEMENT MARKING LINE 4", YELLOW
- (F) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS



#### **EXISTING TYPICAL SECTION**

STA. 19+72.20 TO STA. 19+96.27 STA. 19+96.27 TO STA. 22+03.33 - BRIDGE OMISSION STA. 22+03.33 TO STA. 22+27.40



STA. 19+72.20 TO STA. 19+96.27 STA. 19+96.27 TO STA. 22+03.33 - BRIDGE OMISSION STA. 22+03.33 TO STA. 22+27.40

HOT-MIX ASPHALT MIXTURE REQUIREME	NTS								
MIXTURE TYPE	AIR VOIDS @ NDES	QMP							
PAVEMENT RESURFACING	-								
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; 1.5"	4% @ 70 GYR.	QC/QA							
PAVEMENT WIDENING									
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; 2"	4% @ 70 GYR	QC/QA							
HOT-MIX ASPHALT BASE COURSE WIDENING, (HMA BINDER IL-19)		QC/QA							
HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL									
HMA BINDER COURSE IL-19.0 N70; 6"	4% @ 70 GYR.	QC/QA							
TEMPORARY RAMP									
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70	4% @ 70 GYR.	QC/QA							
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); C	DUALITY CONTROL FOR PERFORMANCE	(QCP);							
PAY FOR PERFORMANCE (PFP)									

NOTES FOR HMA MIXTURE REQUIREMENTS:

SCALE: N.T.S.

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN. 2. THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC
- THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22", UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

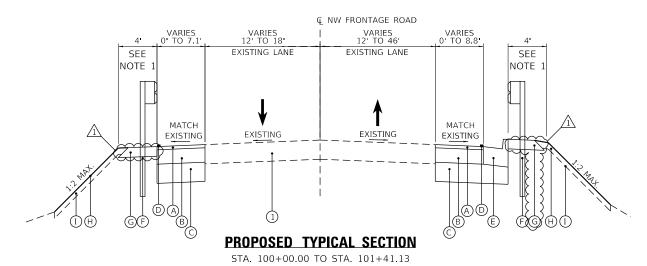
REVISED SHEET 2/25/2022

HDR 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018 | DESIGNED | DRAWN | REVISED | DRAWN | REVISED | DRAWN | PROVISED | DRAWN | DRAWN | DRAWN | PROVISED | DRAWN | DR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

#### **EXISTING TYPICAL SECTION**

STA. 100+00.00 TO STA. 101+41.13



#### **EXISTING LEGEND**

- 1 EXISTING HOT-MIX ASPHALT PAVEMENT
- 2 COMBINATION CONCRETE CURB & GUTTER REMOVAL
- 3 EXISTING GUARDRAIL

#### **PROPOSED LEGEND**

- A HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 (2")
- B HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
- C AGGREGATE SUBGRADE IMPROVEMENT, 12"
- D THERMOPLASTIC PAVEMENT MARKING LINE 4", WHITE
- E PROPOSED CONCRETE CURB AND GUTTER, TYPE B-6.24
- (F) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- G HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL
- (H) SEEDING, CLASS 3
- (I) TOPSOIL FURNISH AND PLACE, 4"

#### NOTES

1. HINGE POINT TO BE LOCATED A MINIMUM OF 2 FEET FROM BACK OF GUARD RAIL POSTS, MEASURED PERPENDICULAR TO THE EDGE OF PAVEMENT.

REVISED SHEET 2/25/2022

HDR 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018

ER NAME = YPARK	DESIGNED -	MSM	REVISED	-	<u>/1\</u> 2/16/2022
	DRAWN -	YJP	REVISED	-	
DT SCALE = 10.0000 ' / in.	CHECKED -	DP	REVISED	-	
DT DATE = 2/16/2022	DATE -	12/10/2021	REVISED	-	

CONTRACT NO. 62M50

ILLINOIS FED. AID PROJECT

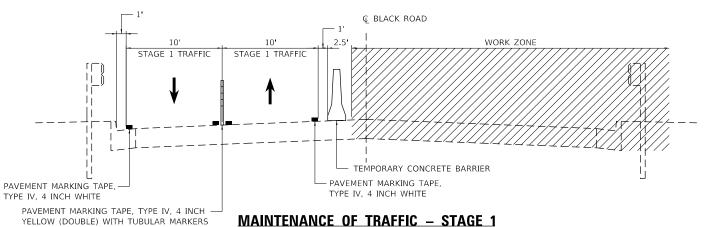
#### MOT GENERAL NOTES

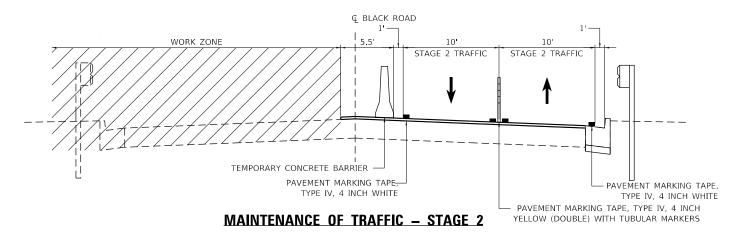
JSER NAME = YPARK

IOT DATE = 2/16/2022

9450 W. BRYN MAWR AVE

- 1. TRAFFIC CONDITIONS, CRASHES, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF TRAFFIC CONTROL AND PROTECTION (ARTERIALS).
- 2. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THE CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 3. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY OR EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE STAGING. REMOVAL OF TEMPORARY PAVEMENT MARKING LINE WILL BE PAID FOR AS TEMPORARY PAVEMENT MARKING REMOVAL. REMOVAL OF EXISTING PAVEMENT MARKING ON PAVEMENT TO REMAIN WILL BE PAID FOR AS PAVEMENT MARKING REMOVAL - WATER BLASTING
- 4 ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAVEMENT MARKING TAPE TYPE IV
- 5. ALL TRAFFIC CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO DRUMS, VERTICAL PANELS, AND BARRICADES IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELLED WAY SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS.
- 6. THE CONTRACTOR SHALL REMOVE OR COVER ALL EXISTING SIGNS THAT CONFLICT WITH OR DO NOT APPLY TO THE REVISED TRAFFIC PATTERNS AND SHALL RESTORE THE SIGNS AT THE END OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE TRAFFIC CONTROL AND PROTECTION (SPECIAL)
- 7. ANY RAISED REFLECTIVE MARKERS THAT CONFLICT WITH THE TEMPORARY TRAFFIC LANES MUST HAVE THE REFLECTIVE LENSES REMOVED AS DIRECTED BY THE ENGINEER. REFLECTOR REPLACEMENT NOT TO OCCUR UNTIL NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONFIGURATION.
- 8. DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID ANY CONSTRUCTION DEBRIS FROM ENCROACHING INTO TRAVEL LANES.
- 9 PEDESTRIAN ACCESS SHALL RE MAINTAINED AT ALL TIMES ANY TEMPORARY SIGNAGE TEMPORARY ACCESS PATHS OR OTHER ITEMS NEEDED TO REPOUTE PEDESTRIAN TRAFFIC AROUND WORK ZONES SHALL BE APPROVED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF TRAFFIC CONTROL AND PROTECTION (ARTERIALS).
- 10. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ACROSS THE SOUTH LEG OF NW FRONTAGE ROAD AT ALL TIMES
- 11. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 12. CONTRACTOR SHALL MAINTAIN SATISFACTORY INGRESS AND EGRESS TO ADJACENT PROPERTIES THOUGHOUT THE CONSTRUCTION.
- 13. BEFORE INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES





<u> 1</u> 2/16/2022

REVISED -

REVISED

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REVISED

DESIGNED - MSM

Y.IP

DP

12/10/2021

DRAWN

DATE

HECKED

#### SUGGESTED STAGING AND MAINTENANCE OF TRAFFIC

#### PRE-STAGE 1

#### **CONSTRUCTION STAGING:**

CONSTRUCT PAVEMENT WIDENING, CONCRETE CURB AND GUTTER, AND GUARDRAIL AT NE CORNER OF NW FRONTAGE RD AND BLACK RD. COMBINATION CURB AND GUTTER AND GUARDRAIL SHALL BE CONSTRUCTED TO FINAL ELEVATION ACCORDING TO PROPOSED PAVEMENT OVERLAY DETAIL INSTALL TEMPORARY TRAFFIC SIGNALS FOR WB BLACK RD AND SB NW FRONTAGE RD AS SHOWN IN THE PLANS.

#### **MAINTENANCE OF TRAFFIC:**

- MAINTAIN TWO-LANE EB TRAFFIC, AND CLOSE ONE LANE OF WB AS SHOWN IN THE PLANS
- REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS
  ACCESS TO AND FROM NW FRONTAGE ROAD IS TO BE PROVIDED FOR RIGHT-IN. RIGHT-OUT MOVEMENTS ONLY USING A TEMPORARY TRAFFIC SIGNAL AS SHOWN IN THE PLANS. THE SOUTH LEG OF NW FRONTAGE ROAD IS TO BE CLOSED AND TRAFFIC DETOURED PER DETOUR PLANS.

#### PRE-STAGE 2

#### **CONSTRUCTION STAGING:**

CONSTRUCT PAVEMENT WIDENING, CONCRETE CURB AND GUTTER, AND GUARDRAIL AT NW CORNER OF NW FRONTAGE RD AND BLACK RD.

#### **MAINTENANCE OF TRAFFIC:**

- MAINTAIN TWO-LANE BB TRAFFIC, AND CLOSE ONE LANE OF WB AS SHOWN IN THE PLANS
- REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS
- ACCESS TO AND FROM NW FRONTAGE ROAD IS TO BE PROVIDED FOR RIGHT-IN, RIGHT-OUT MOVEMENTS ONLY USING A TEMPORARY TRAFFIC SIGNAL AS SHOWN IN THE PLANS, THE SOUTH LEG OF NW FRONTAGE ROAD IS TO BE CLOSED AND TRAFFIC DETOURED PER DETOUR PLANS,

#### STAGE 1

#### **CONSTRUCTION STAGING:**

- REPLACE BRIDGE JOINTS AND REPAIR APPROACH SLAB ON EASTROLIND HALE OF BRIDGE
- SCARIFY BRIDGE DECK 3/4" ON EASTBOUND HALF OF BRIDGE AND PLACE LATEX CONCRETE OVERLAY.
- REMOVE AND REPLACE COMBINATION CONCRETE CURB AND GUTTER ON RIGHT TO FINAL ELEVATION ACCORDING TO PROPOSED OVERLAY TRANSITION.
- REMOVE AND REPLACE GUARDRAIL ON RIGHT TO FINAL ELEVATION ACCORDING TO PROPOSED OVERLAY TRANSITION. SCARIFY AND OVERLAY EASTBOUND APPROACH SLABS AND EXISTING PAVEMENT.

#### MAINTENANCE OF TRAFFIC:

- MAINTAIN TWO-LANE TWO-WAY TRAFFIC ON WESTBOUND PAVEMENT ACROSS BRIDGE AS SHOWN IN PLANS.
- . REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS. . ACCESS TO AND FROM NW FRONTAGE ROAD IS TO BE PROVIDED FOR RIGHT-IN RIGHT-OUT MOVEMENTS ONLY USING A TEMPORARY TRAFFIC SIGNAL AS SHOWN IN THE PLANS. THE SOUTH LEG OF NW FRONTAGE ROAD IS TO BE CLOSED AND TRAFFIC DETOURED PER DETOUR PLANS.

#### STAGE 2

#### **CONSTRUCTION STAGING:**

- REPLACE BRIDGE JOINTS AND REPAIR APPROACH SLAB ON WESTBOUND HALF OF BRIDGE.
- SCARIEY BRIDGE DECK 3/4" ON WESTBOLIND HALE OF BRIDGE AND PLACE LATEX CONCRETE OVERLAY
- REMOVE AND REPLACE COMBINATION CONCRETE CURB AND GUTTER ON LEFT TO FINAL ELEVATION ACCORDING TO PROPOSED OVERLAY TRANSITION.
- REMOVE AND REPLACE GUARDRAIL ON LEFT TO FINAL ELEVATION ACCORDING TO PROPOSED OVERLAY TRANSITION.
  SCARIFY AND OVERLAY WESTBOUND APPROACH SLAB AND EXISTING PAVEMENT ON EAST SIDE OF BRIDGE. CONSTRUCT TEMPORARY HMA RAMP AT
- NEWLY CONSTRUCTED WEST SIDE BRIDGE JOINT

#### **MAINTENANCE OF TRAFFIC:**

- I. MAINTAIN TWO-LANE TWO-WAY TRAFFIC ON EASTBOUND PAVEMENT ACROSS BRIDGE AS SHOWN IN PLANS. 2. REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS. 3. ACCESS TO AND FROM NW FRONTAGE ROAD IS TO BE PROVIDED FOR RIGHT-IN RIGHT-OUT MOVEMENTS ONLY USING A TEMPORARY TRAFFIC SIGNAL AS SHOWN IN THE PLANS. THE SOUTH LEG OF NW FRONTAGE ROAD IS TO BE CLOSED AND TRAFFIC DETOURED PER DETOUR PLANS.

#### **POST STAGE**

#### CONSTRUCTION STAGING:

1. CONSTRUCT APPROACH SLAB SCARIFICATION, BUTT JOINT AND OVERLAY OF WESTBOUND APPROACH SLAB AND EXISTING PAVEMENT ON WEST SIDE OF

#### **MAINTENANCE OF TRAFFIC:**

- 1. UTILIZE DAY TIME LANE CLOSURES TO CONSTRUCT BUTT JOINT AND OVERLAY. 2. MAINTAIN A MINIMUM OF TWO-LANES OF EASTBOUND TRAFFIC AND ONE LANE OF WESTBOUND TRAFFIC ON BLACK ROAD AT ALL TIMES.

#### SUBSTRUCTURE REPAIRS

#### CONSTRUCTION STAGING:

PERFORM THE FOLLOWING WORK CONCURRENTLY WITH SUPERSTRUCTURE REPAIRS:

- REPAIR SHOULDER BRIDGE PIER AT BLACK ROAD OVER SOUTHBOUND I-55. REPAIR MEDIAN BRIDGE PIER AT BLACK ROAD OVER SOUTHBOUND I-55.
- REPAIR MEDIAN BRIDGE PIER AT BLACK ROAD OVER NORTHBOUND 1-55. REPAIR SHOULDER BRIDGE PIER AT BLACK ROAD OVER NORTHBOUND 1-55

#### MAINTENANCE OF TRAFFIC:

- 1. UTILIZE IDOT HIGHWAY STANDARD 701400, 701401, AND 701428.
- . UTILIZE IDOT HIGHWAY STANDARD (01400, 701401, AND 701420). . WORK IS TO BE PERFORMED USING OVERNIGHT LANE CLOSURES. . MAINTAIN A MINIMUM OF TWO-LANE TRAFFIC ON 1-55 IN THE DIRECTION IN WHICH WORK IS BEING PERFORMED AND THREE-LANE TRAFFIC IN THE OPPOSITE DIRECTION AT ALL TIMES.



STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION COUNTY SUGGESTED BLACK ROAD TRAFFIC CONTROL 2020-163-BR WILL 65 MAINTENANCE OF TRAFFIC NOTES & SEQUENCE OF CONSTRUCTION CONTRACT NO. 62M50 SHEET 1 OF 12 SHEETS STA.





#### SUGGESTED TRAFFIC CONTROL PLAN GENERAL NOTES

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022", THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND THE SPECIAL PROVISIONS.

2. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER SHALL DETERMINE THE HOUR OF CLOSURE. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.

3. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING PRIOR TO THE START OF THE WORK.

4. IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT, THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.

5. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN FFFECT.

7. THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL THAT IS DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

8. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.

9. ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR (4) CALENDAR DAYS.

10. ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF ARTICLE 1084.02 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION OF THE SIGNS. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.

11. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

12. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.

13. WHEN REQUIRED THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THESE PLANS ARE 18"  $\times$  18".

14. ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 8 FEET IN WIDTH EACH, FOR A SINGLE APPROACH LANE.

15. THE "ROAD CLOSED" (R11-2) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.

16. THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN SHALL BE A 9" X VARIABLE OR A 12" X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 5" LOWER CASE.

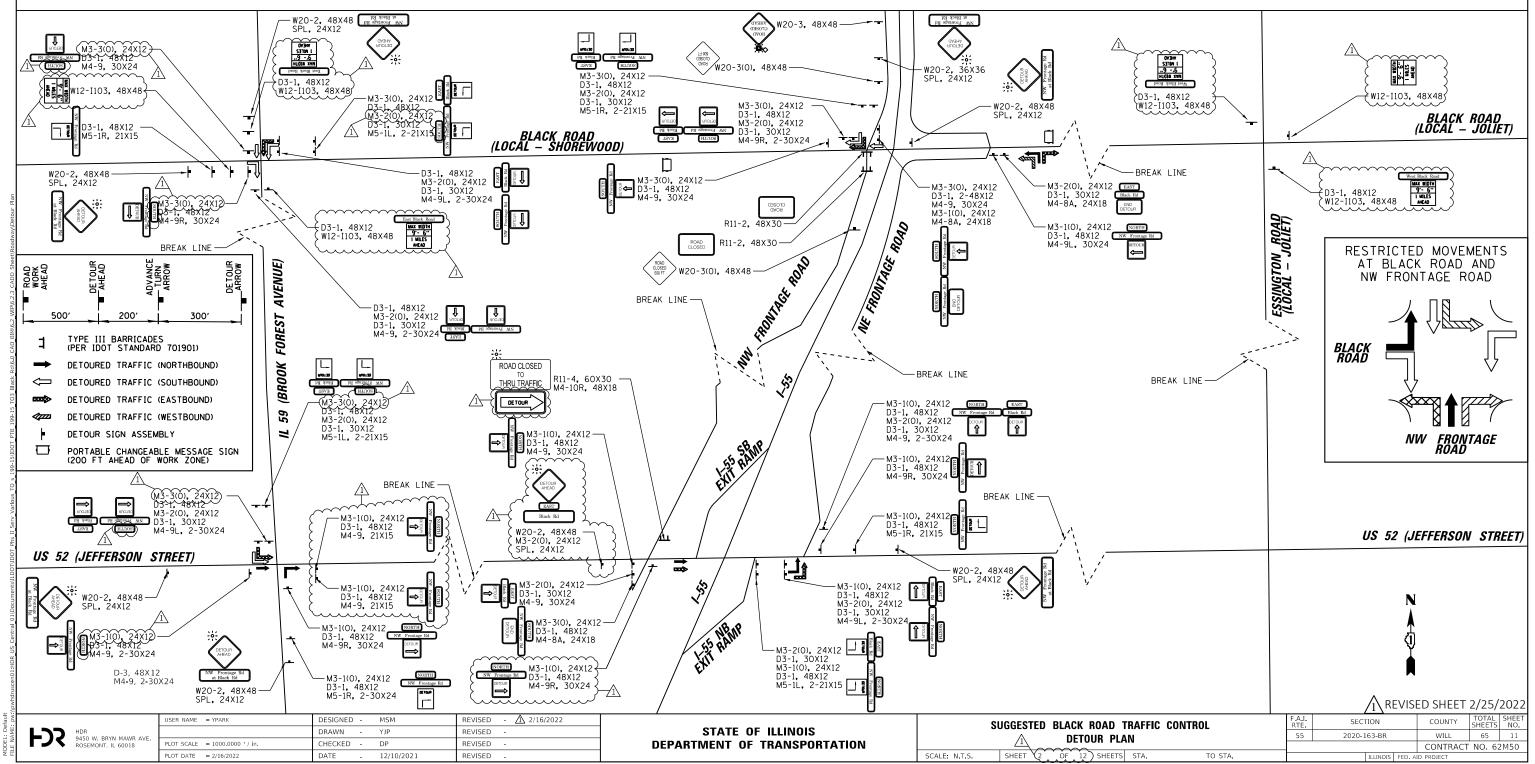
17. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.

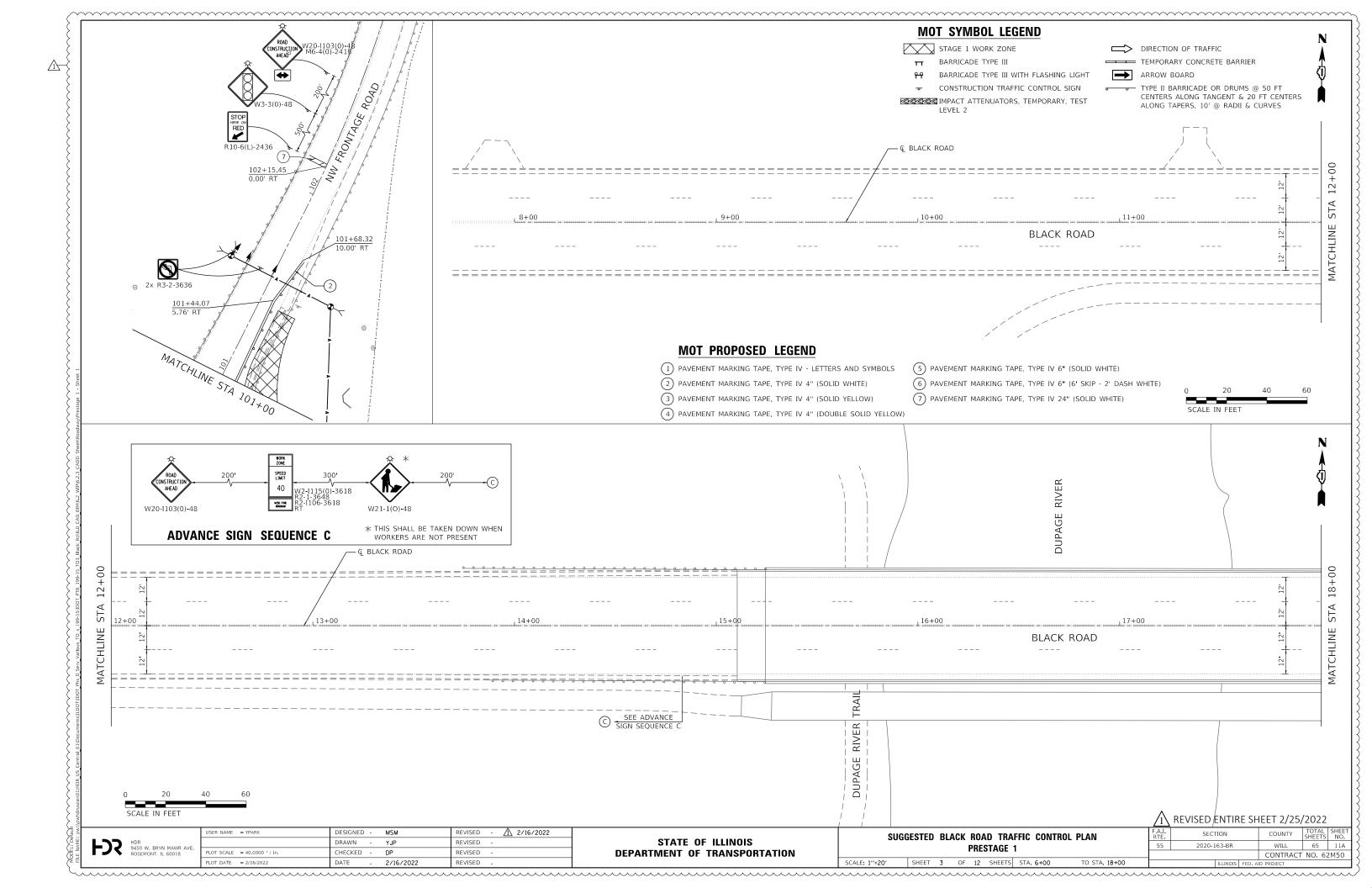
18. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED WITHIN 25 FT BEHIND THE TYPE III BARRICADES. IN ANY EVENT ARTICLE 701.04 OF THE STANDARD SPECIFICATIONS SHALL APPLY.

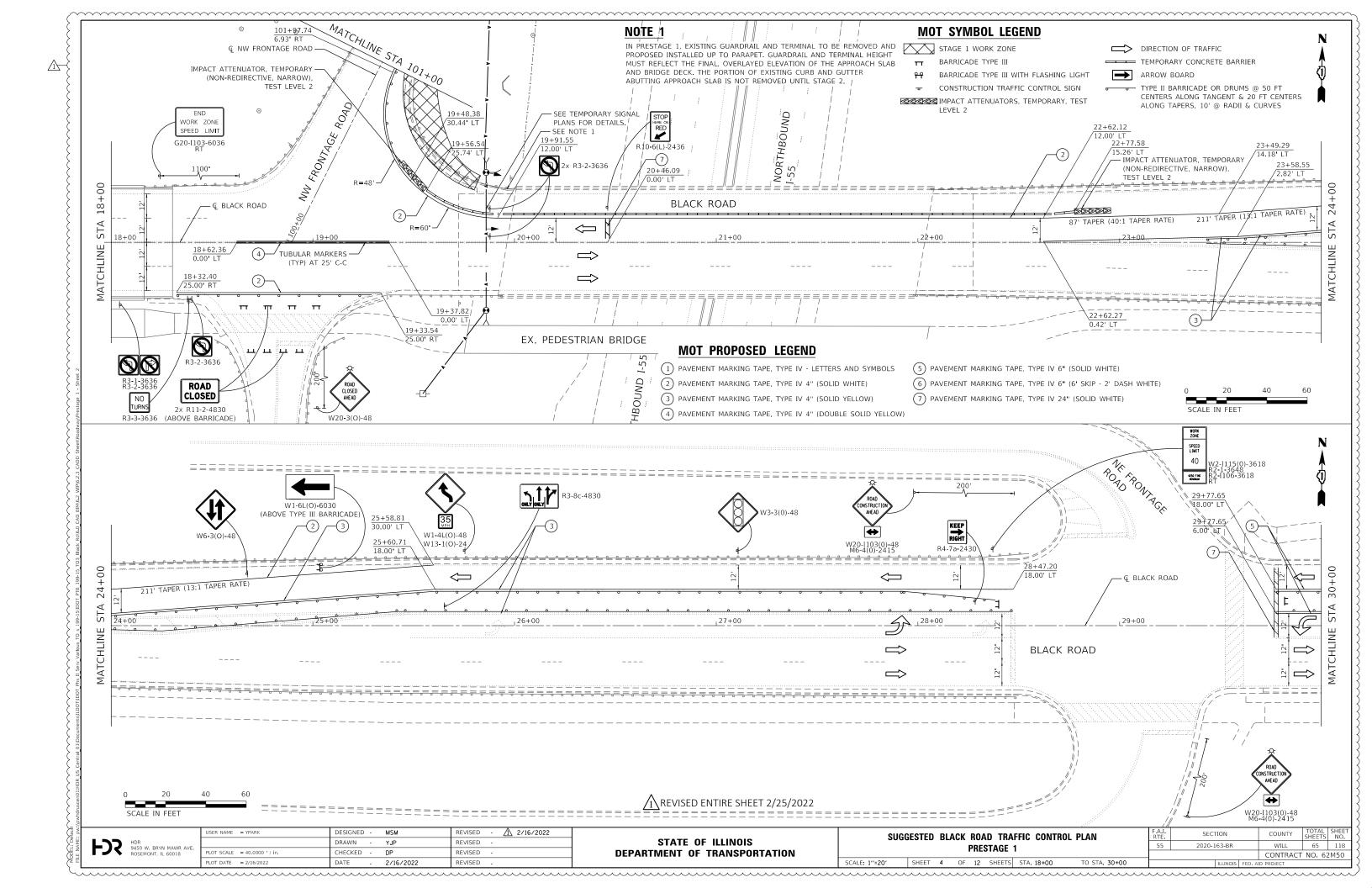
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.

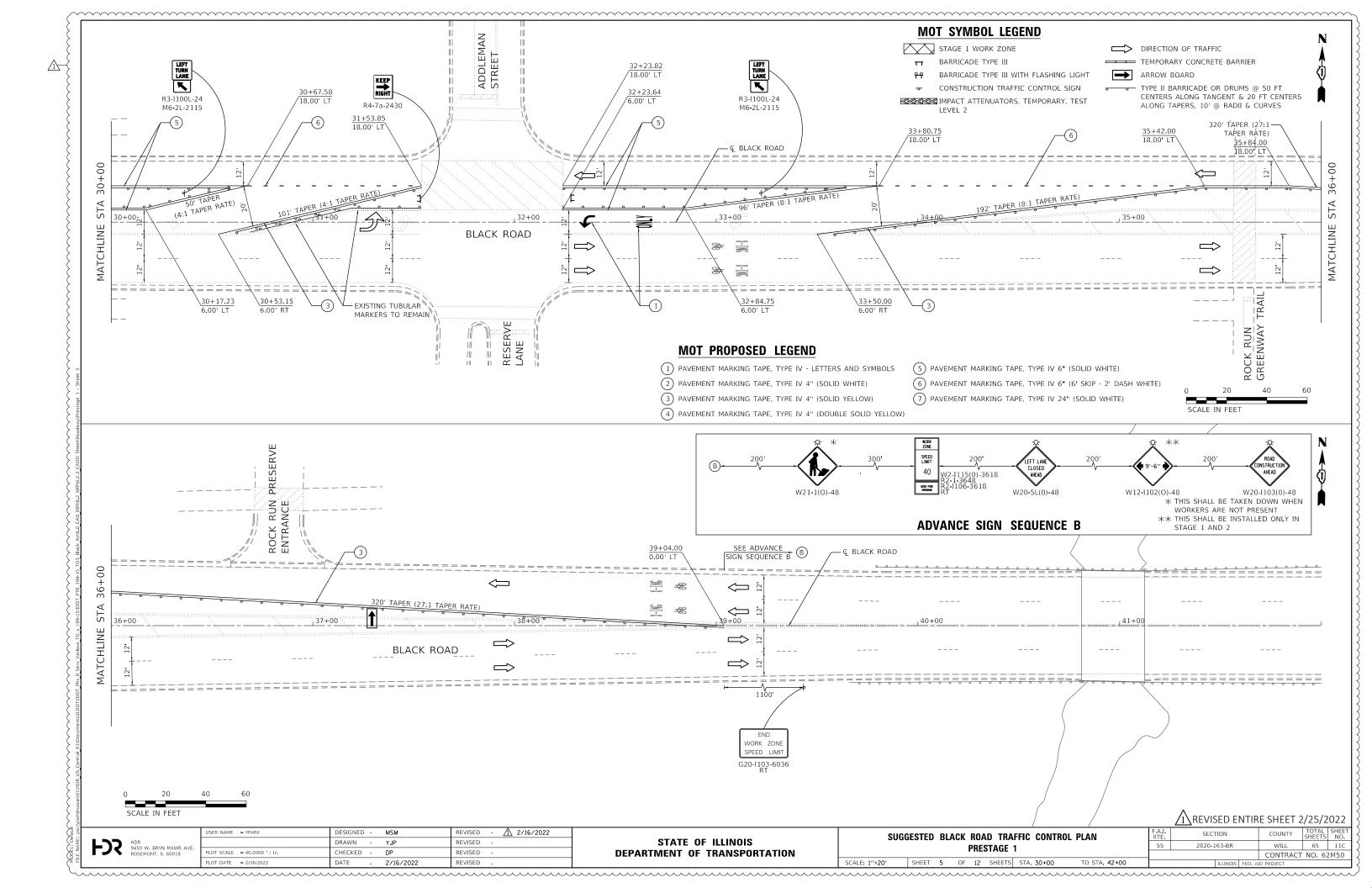
20. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.

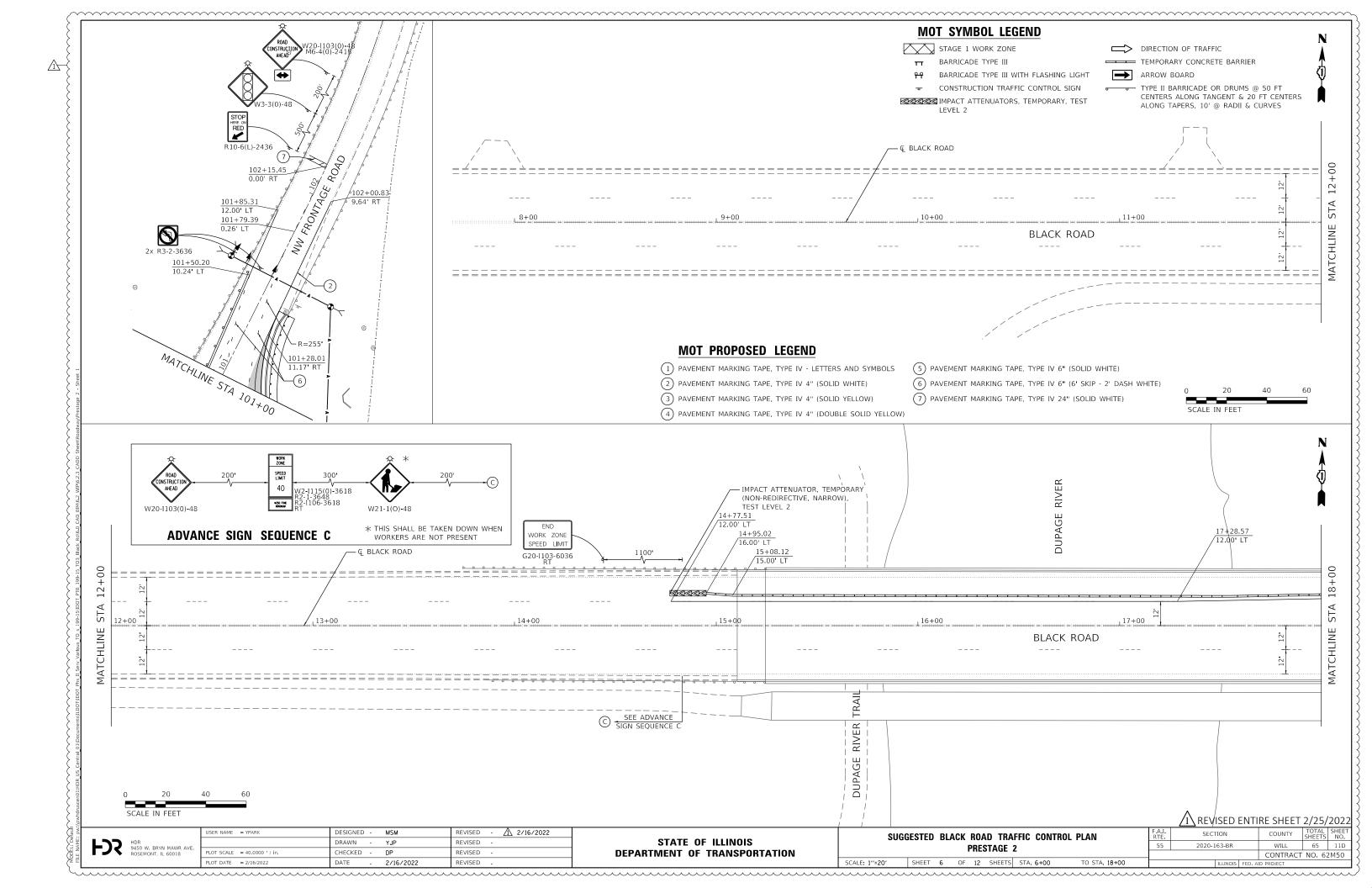
21. BLACK ROAD LANE CLOSURE AND DETOUR SHALL NOT BEGIN PRIOR TO MAY 1, 2022 WITHOUT WRITTEN PERMISSION FROM THE VILLAGE OF SHOREWOOD.

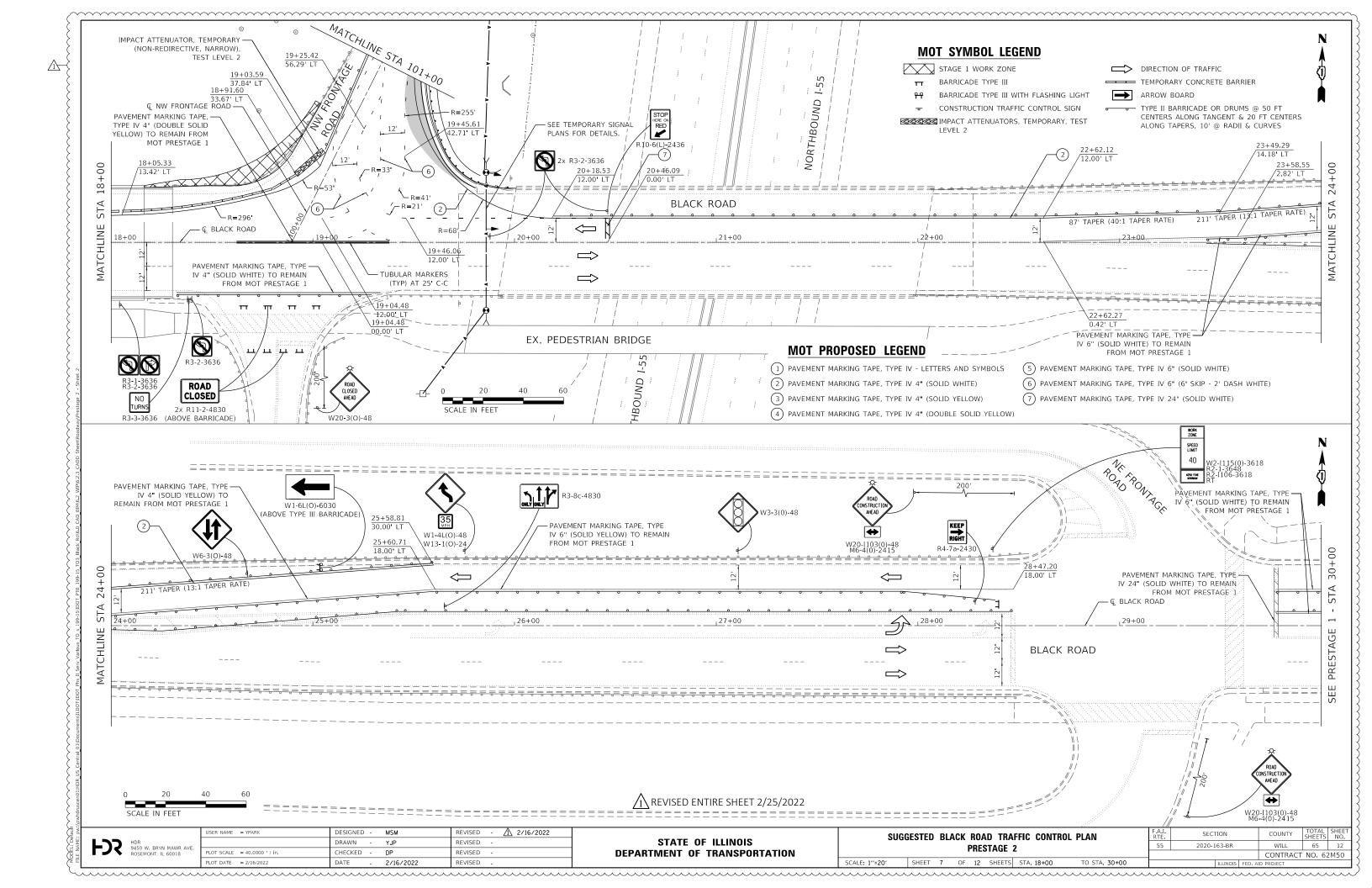


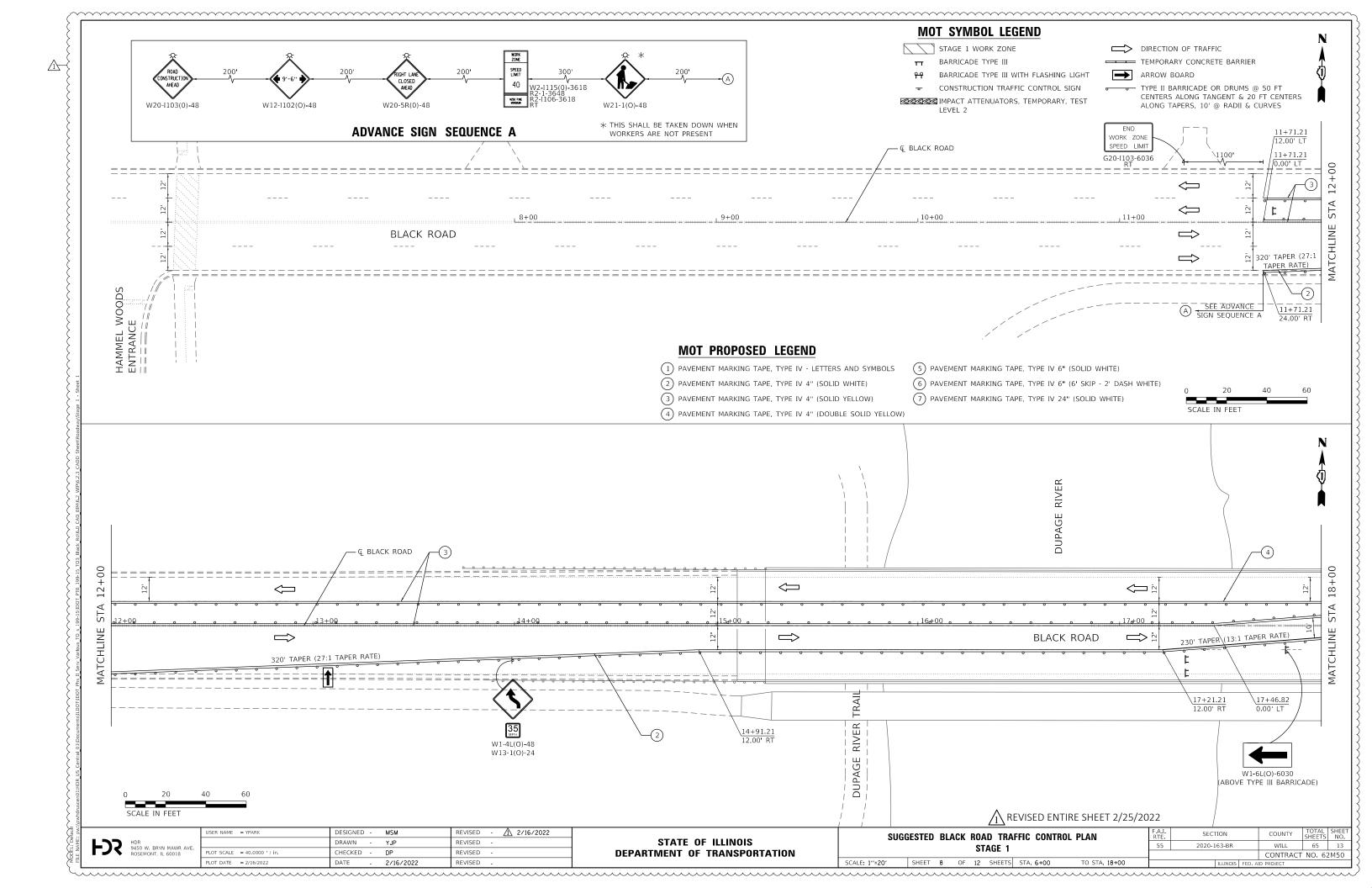


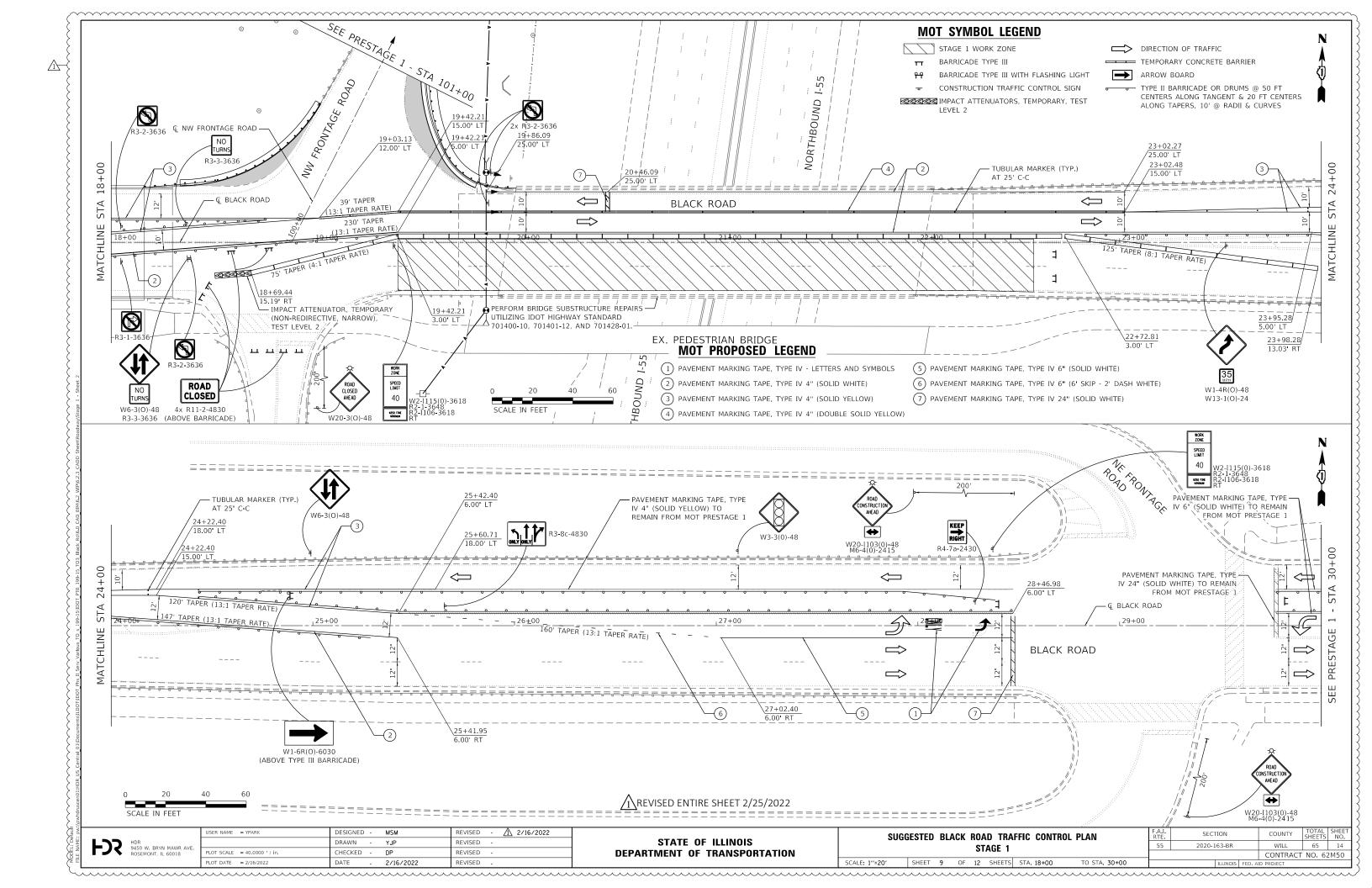


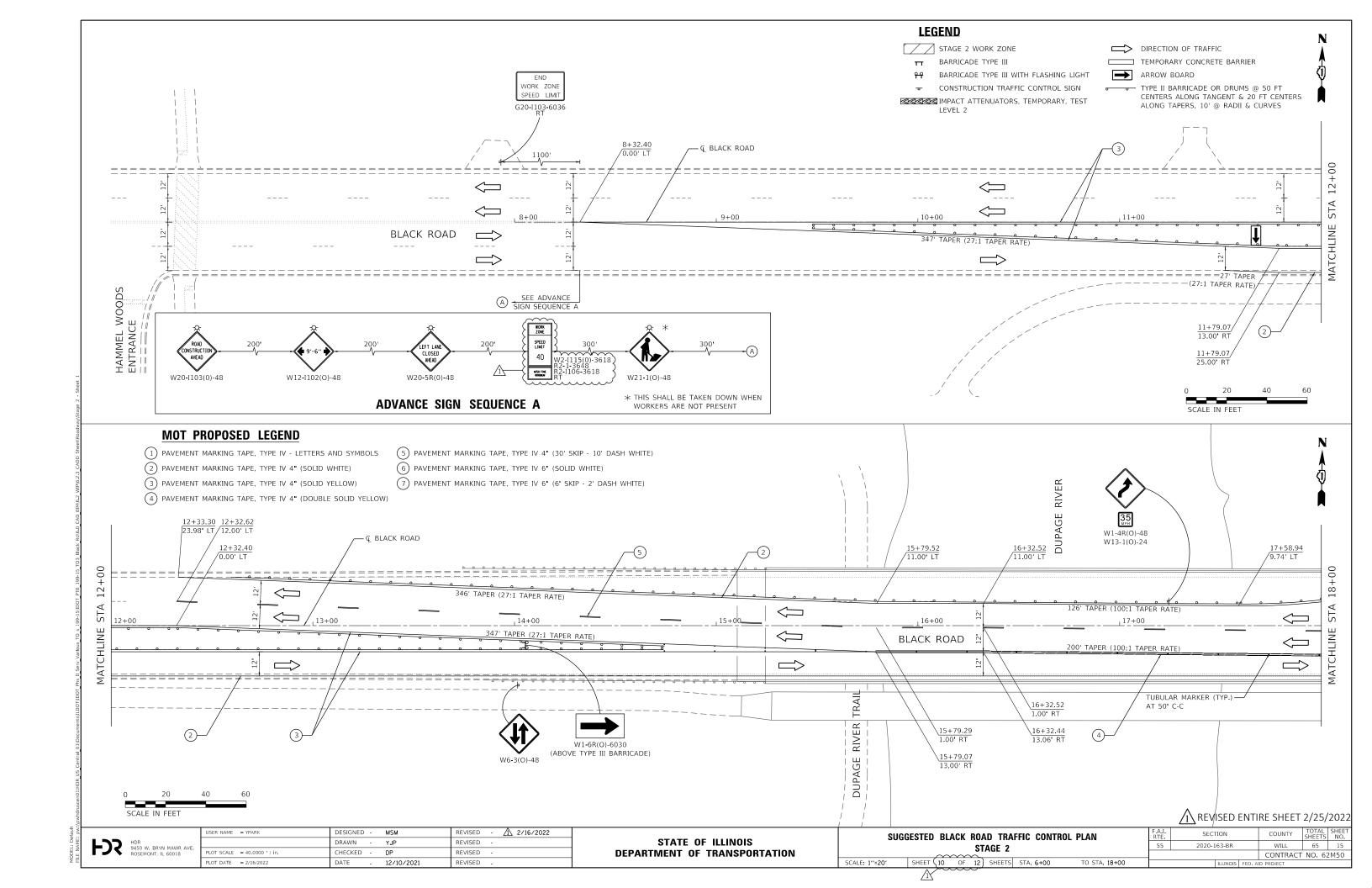


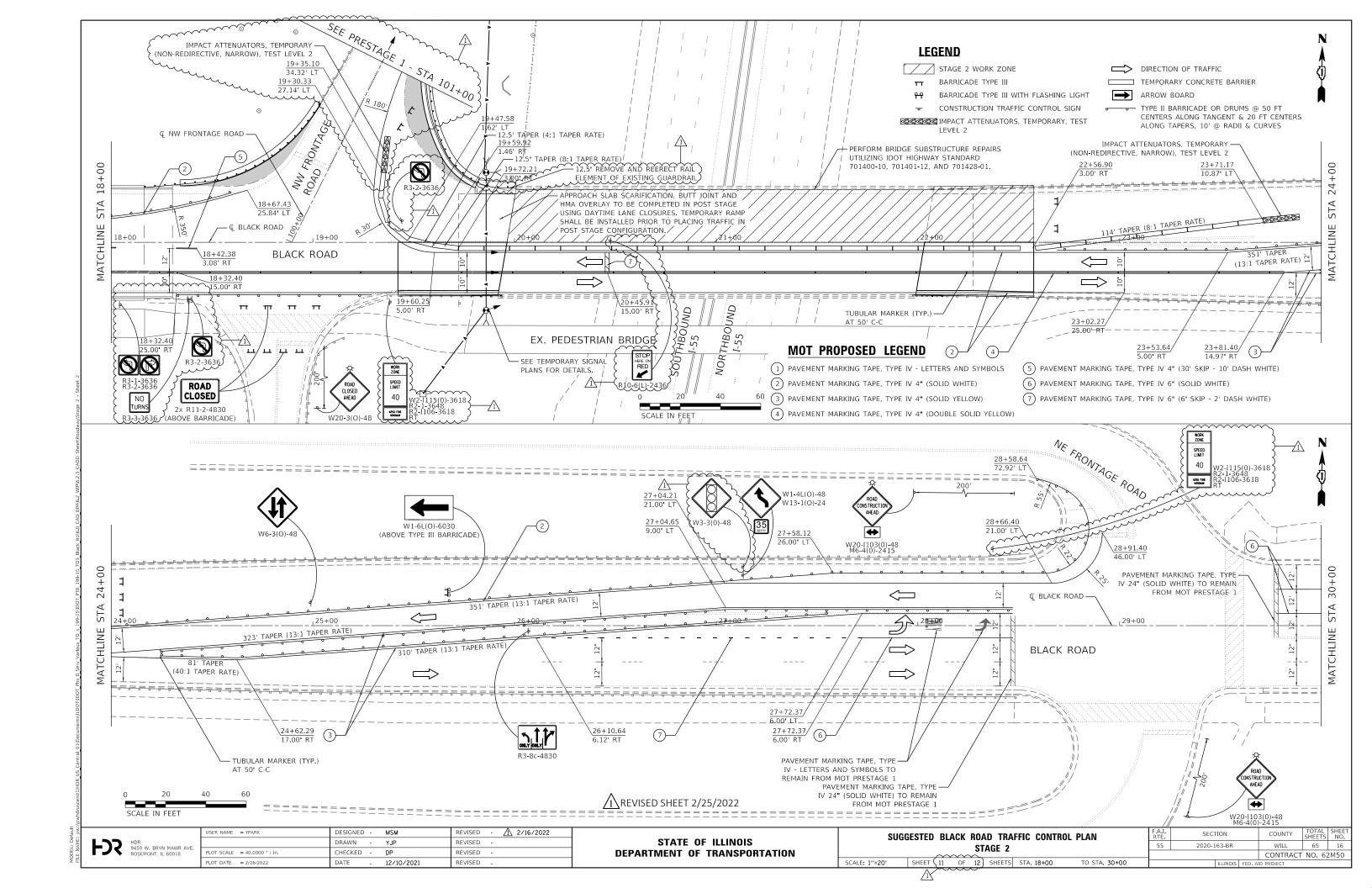


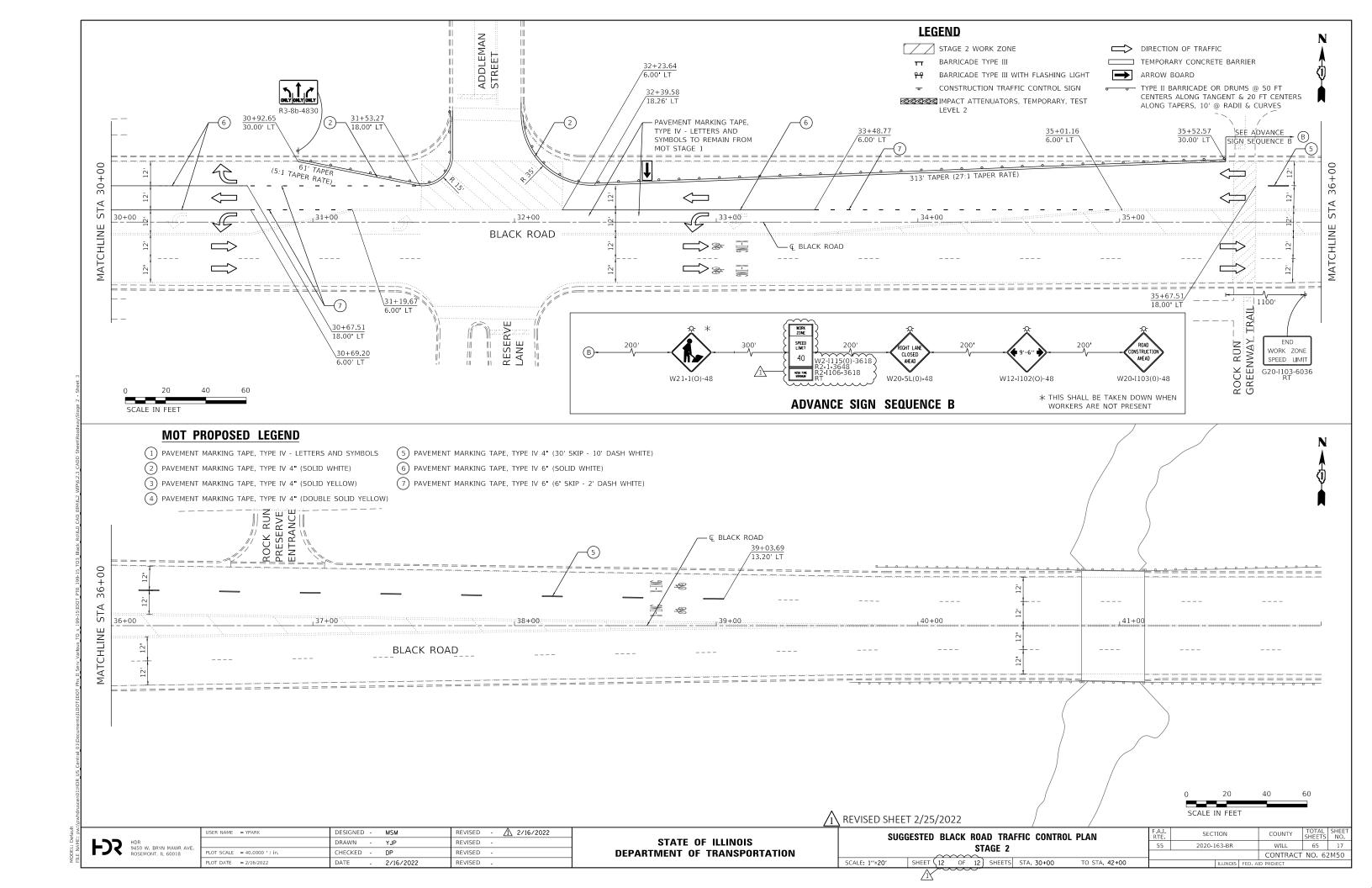


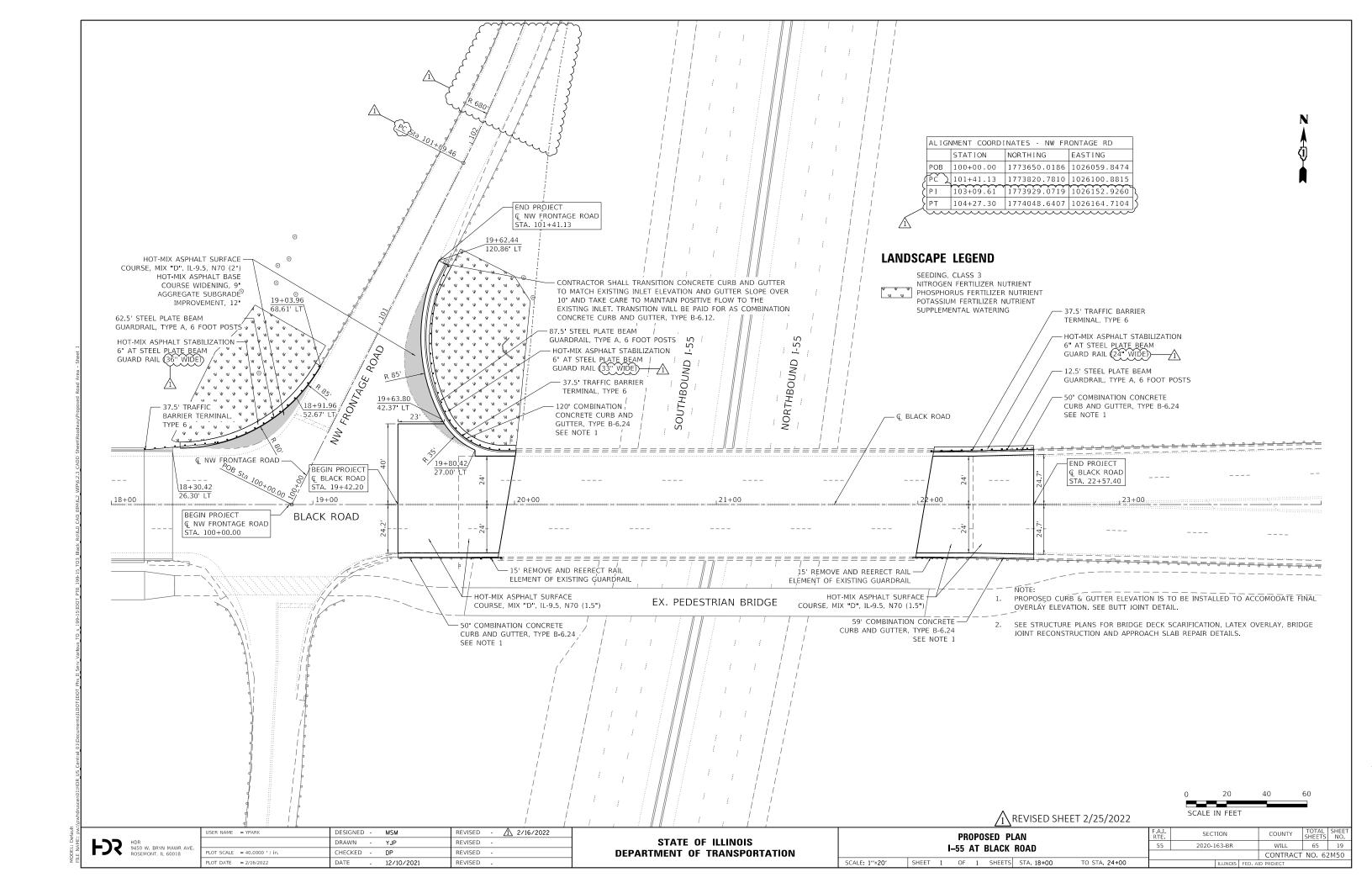


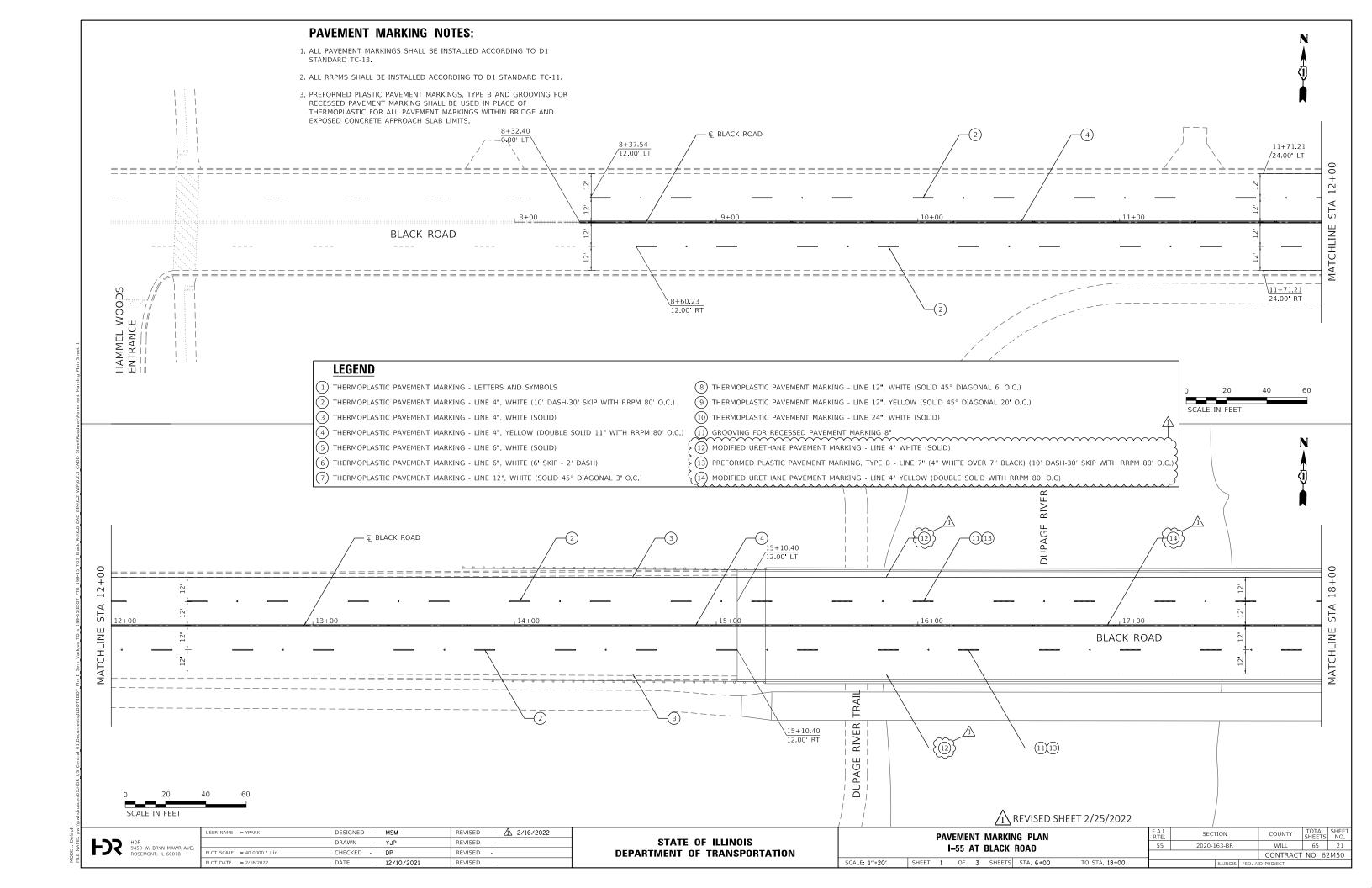


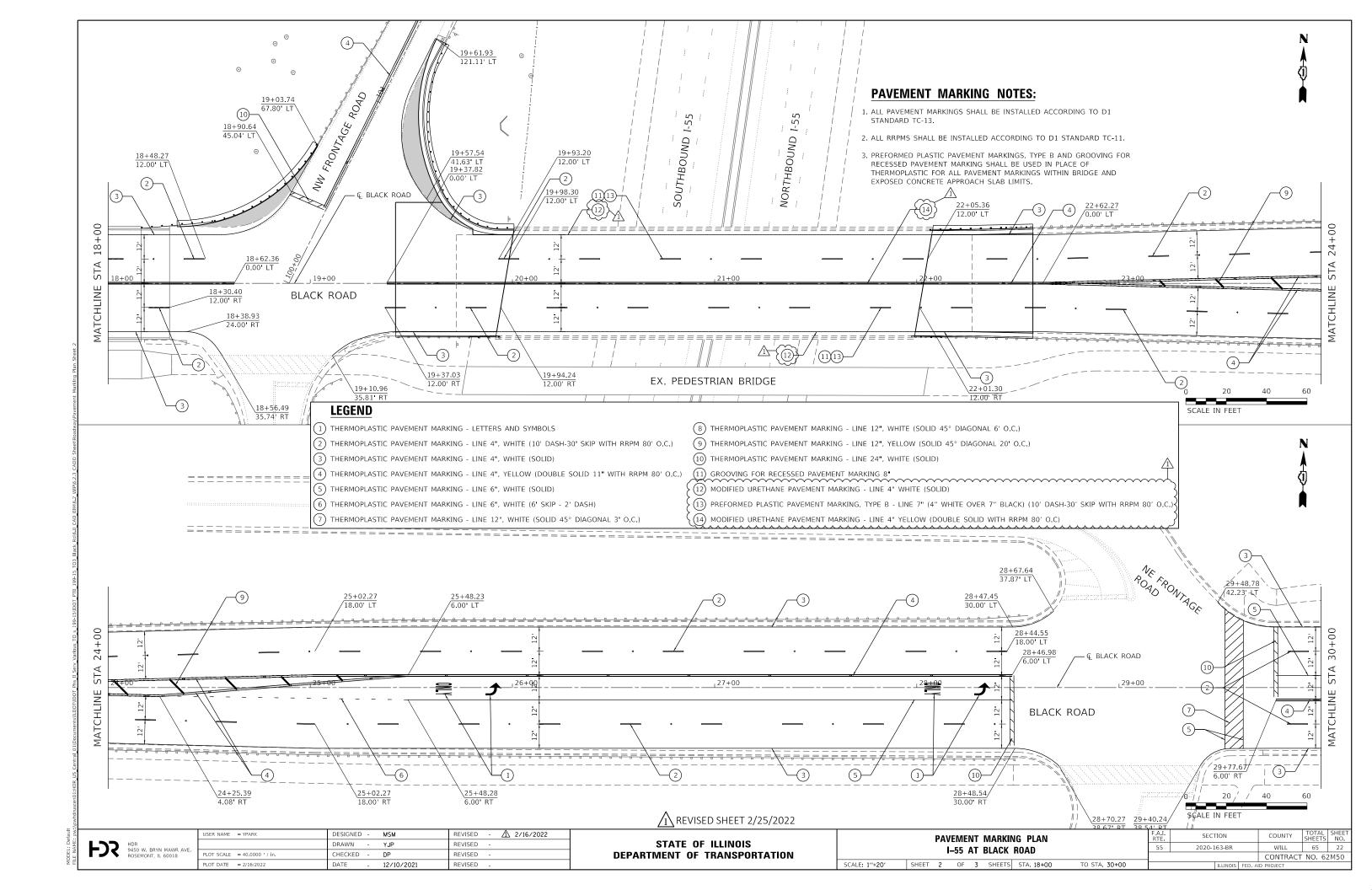


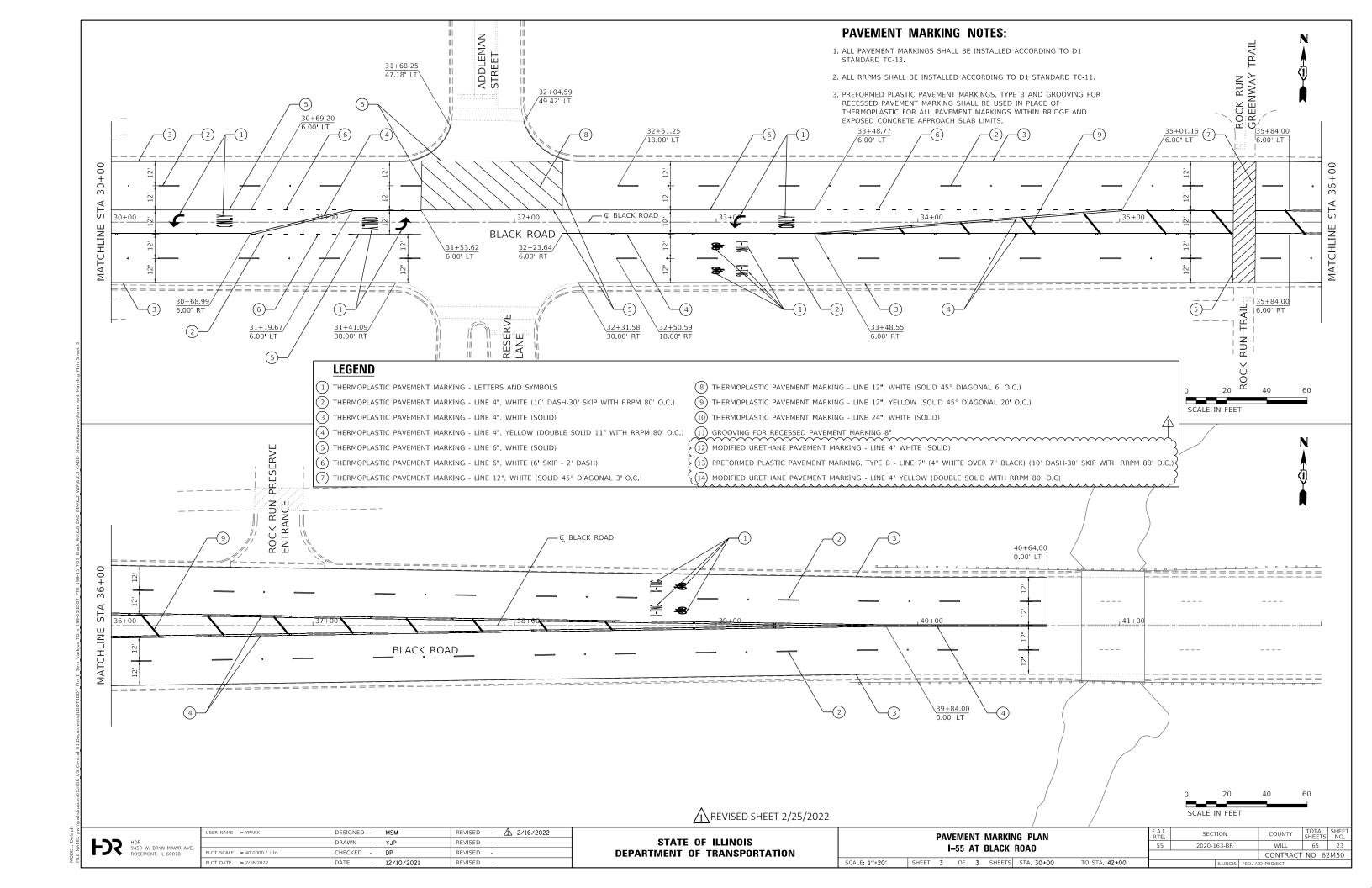


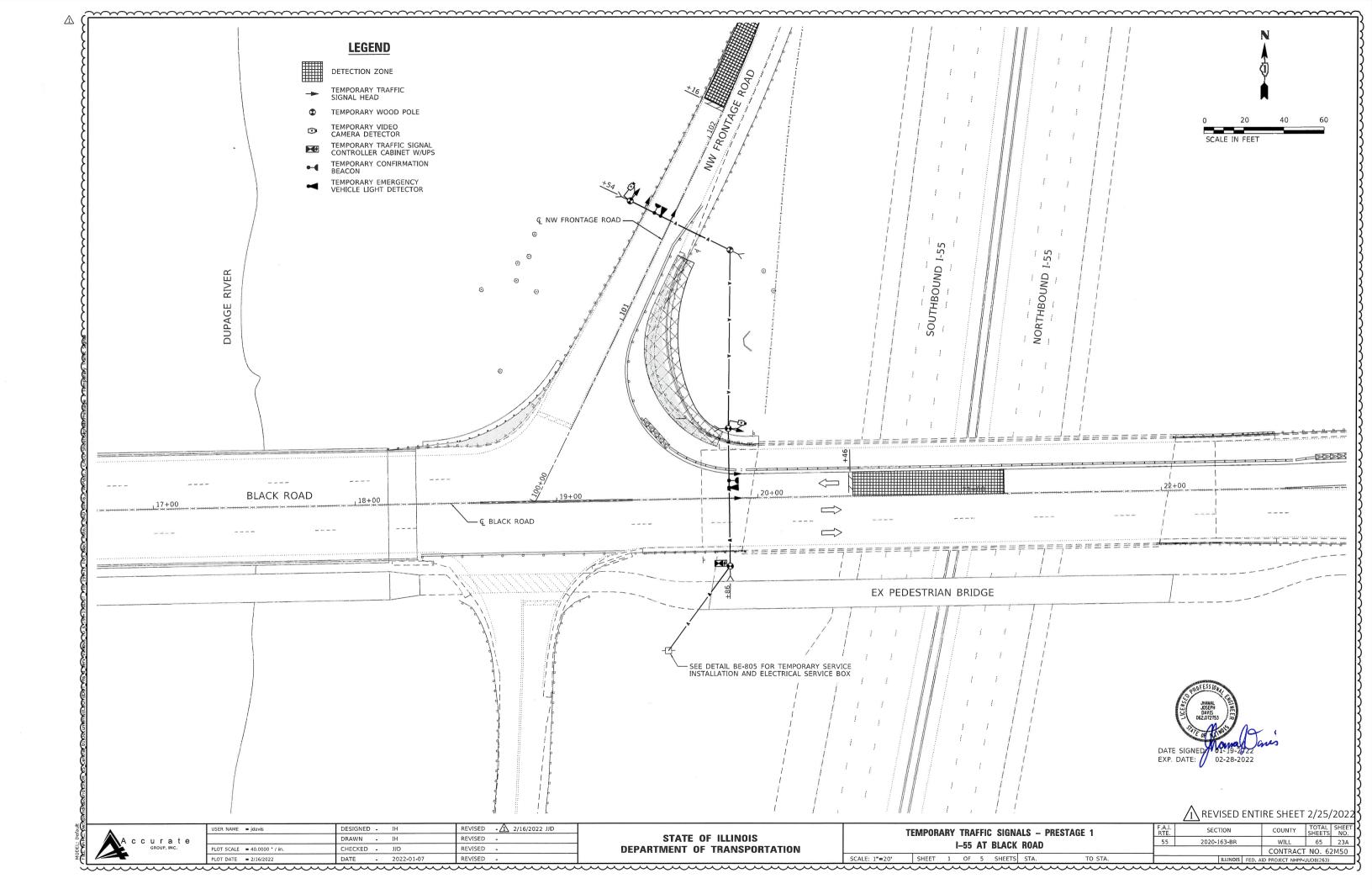


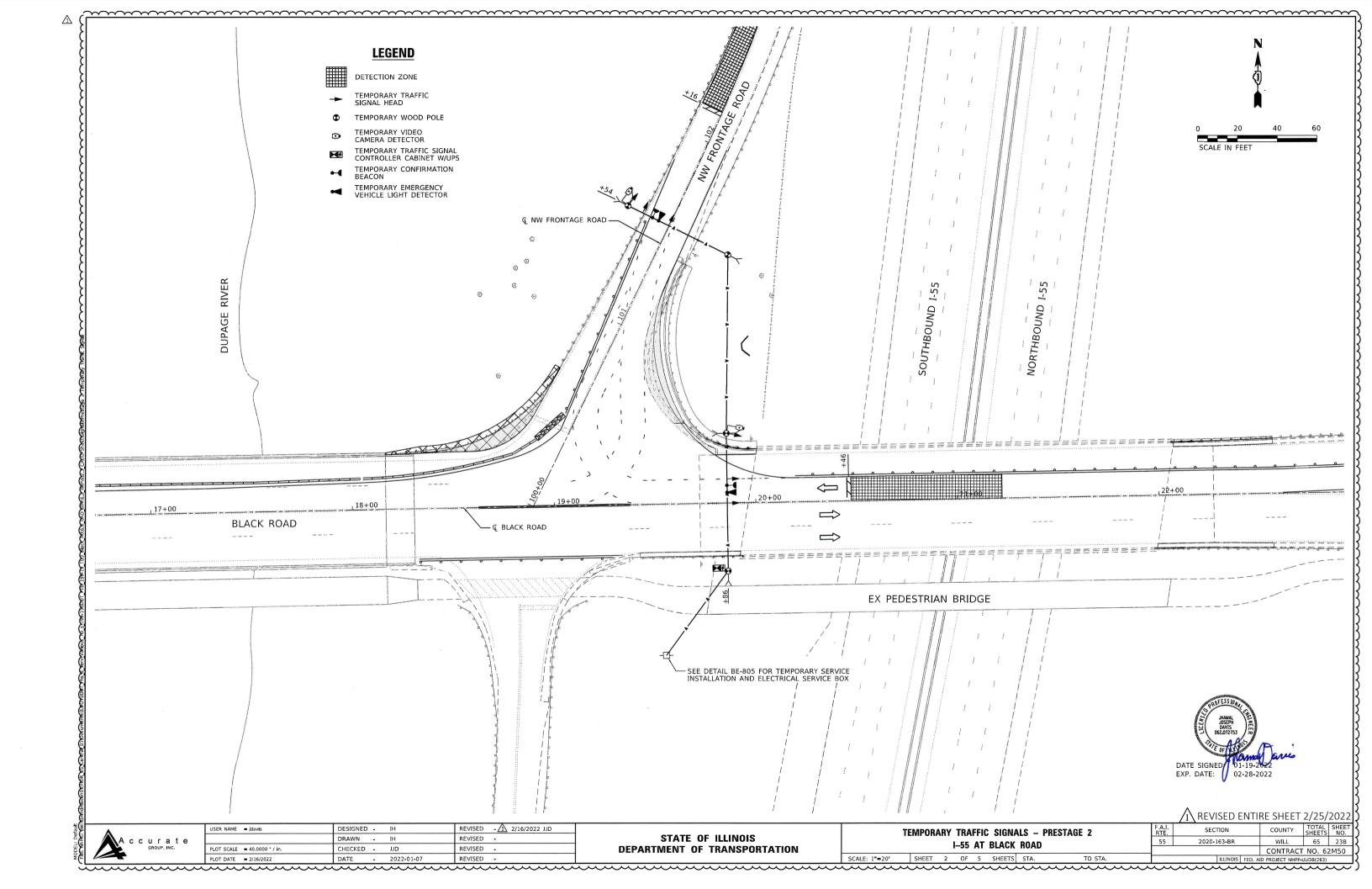


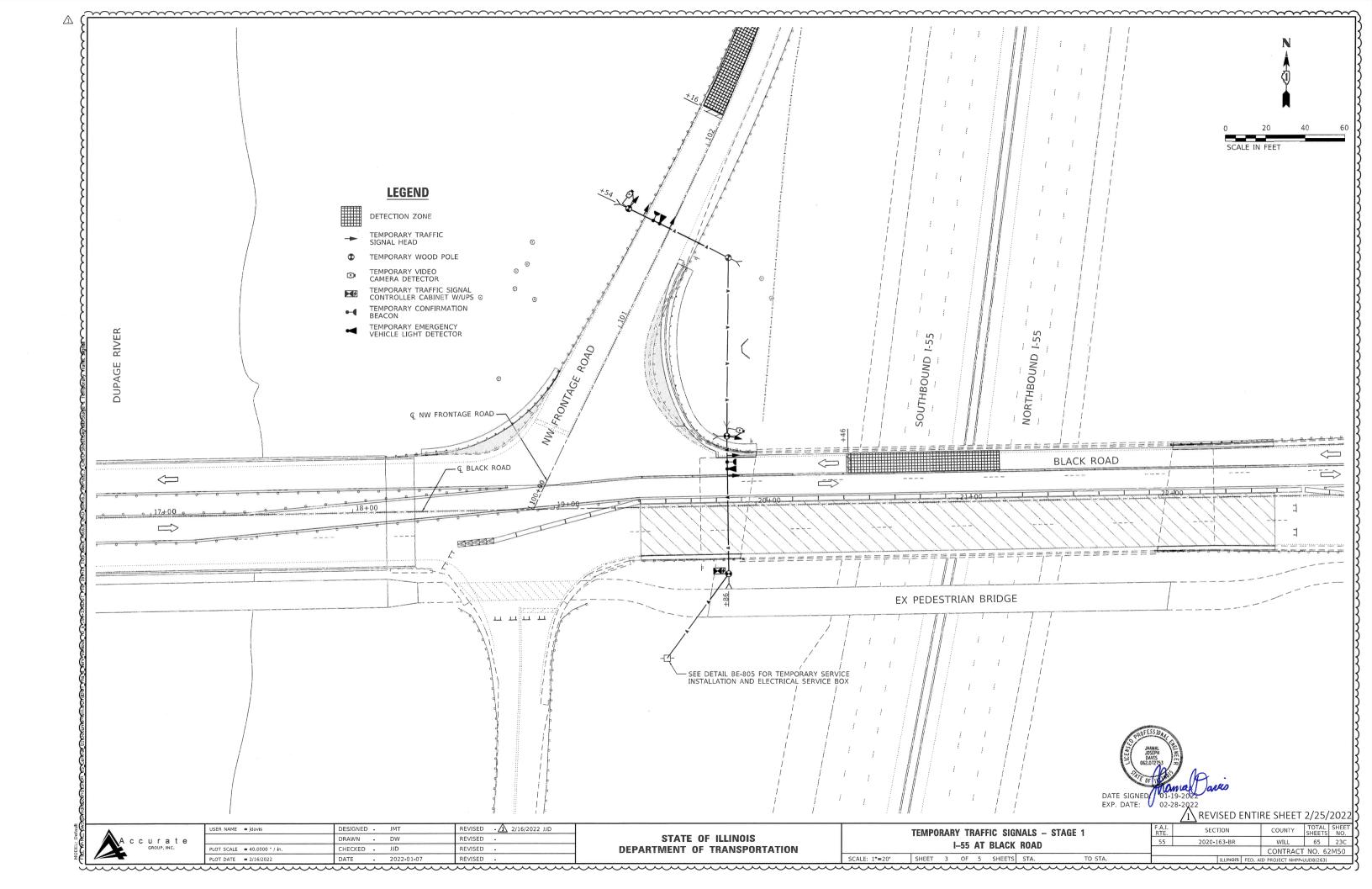


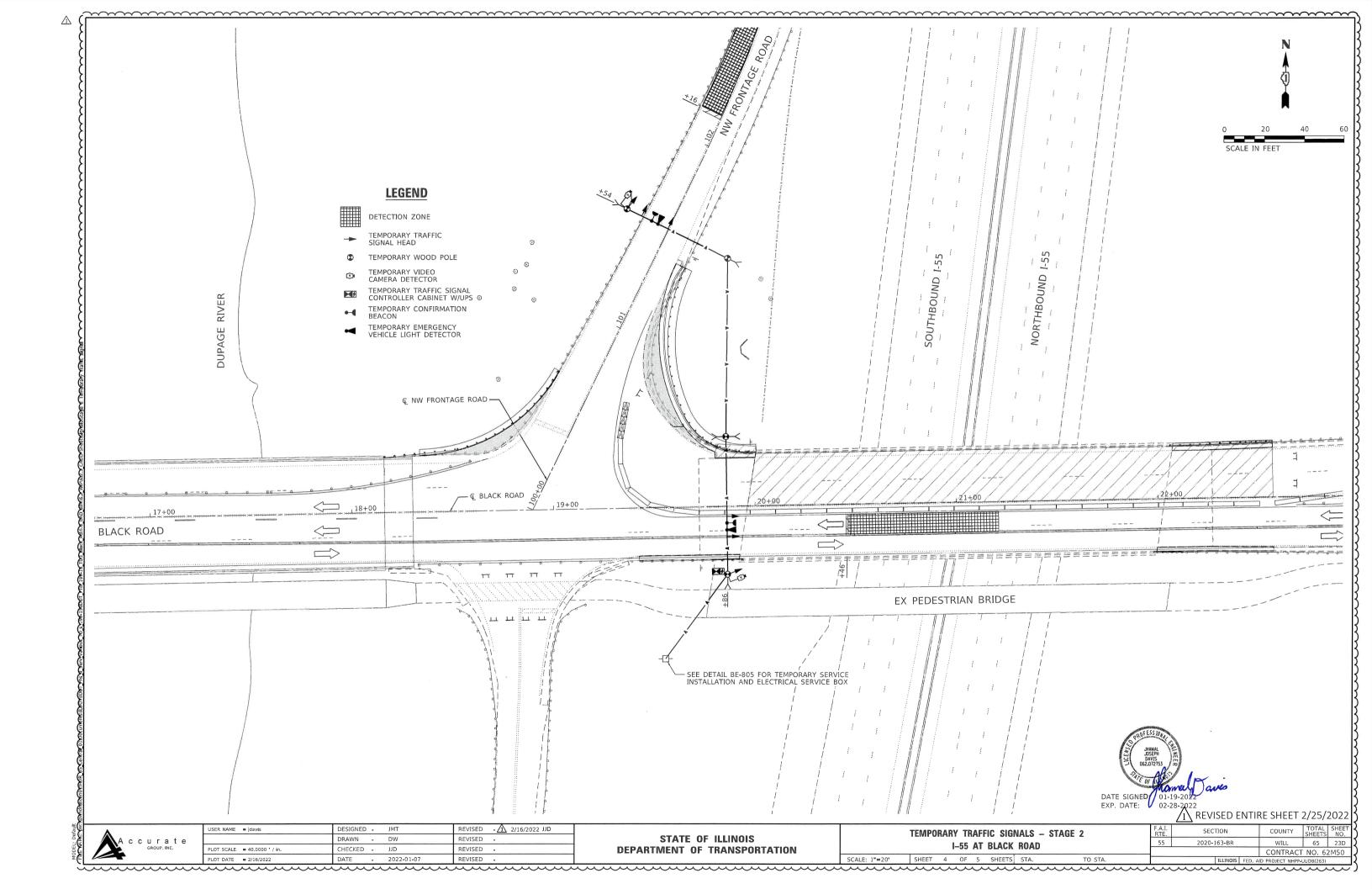


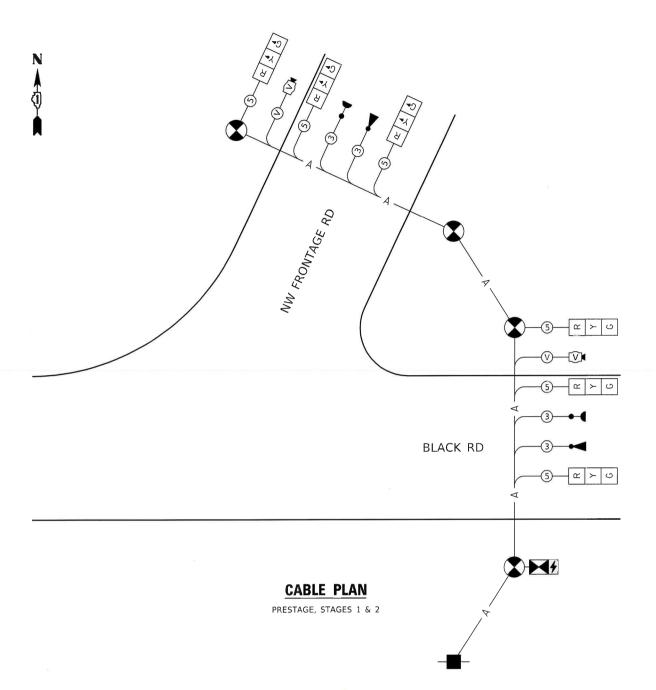












#### **LEGEND**

Y TI

TRAFFIC SIGNAL HEAD

 $\bigcirc$ 

VIDEO DETECTOR

EMERGENCY VEHICLE

4

CONFIRMATION BEACON

◀

LIGHT DETECTOR

NUMBER OF CONDUCTORS

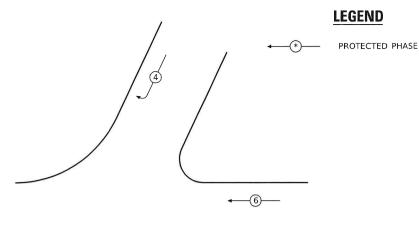
OR VIDEO DETECTOR CABLE

**4** 

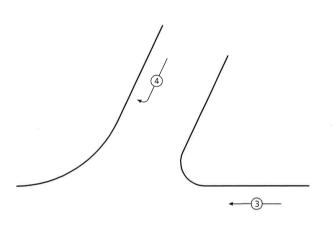
CONTROLLER AND CABINET WITH UNINTERRUPTABLE POWER SUPPLY

TEMPORARY WOOD POLE

SERVICE INSTALLATION



#### CONTROLLER SEQUENCE



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

SHEET 5 OF 5 SHEETS STA.

# TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

Serva	TYPE	Nº LAMPS	WATTAGE LED	% OPERATION	TOTAL WATTAGE
اچ اچ	SIGNAL (RED)	6	11	0.50	33
	(YELLOW)	6	20	0.05	6
	(GREEN)	6	12	0.45	32.4
	CONTROLLER	1	100	1.00	100
	VIDEO SYSTEM	1	150	1.00	150
Œ	UPS	1	25	1.00	25
چ	ILLUM. SIGN			0.50	
01) Octuments (ILDO)	FLASHER			0.50	
اع				TOTAL =	346.4

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: PHONE:

JOE HURLEY (847) 816-5503

PLOT DATE ■ 2/16/2022

#### NOTES

DATE

- 2022-01-07

REVISED -

- NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENCE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY SHALL BE PRESENTED AT THAT MEETING. NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENCE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY FURNISHED TO THE ENGINEER.
- 2. THE LAYOUT OF THE TEMPORARY EQUIPMENT MAY VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY. BEFORE ANY POLES ARE PLACED, THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES, TRAFFIC SIGNALS, AND COMBINED SERVICE TO THE ENGINEER FOR APPROVAL.
- 3. THE ELECTRIC SERVICE SHALL BE 240/120V. WHERE 240V SERVICE IS NOT AVAILABLE, THE CONTRACTOR MAY SUBMIT A PROPOSAL FOR 120V SERVICE. DROP CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED REGARDLESS OF THE SERVICE VOLTAGE APPLIED.
- 4. THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH THE FACTORY-APPLIED WATERPROOF SEALANT OR AN APPROVED UL-LISTED AERIAL TAP DEVICE.
- 5. ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.
- 6. ANY TREE TRIMMING NECESSARY TO SET UP THE TEMPORARY TRAFFIC SIGNALS WILL BE COVERED UNDER THE SPECIAL PROVISION "PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE".



02-28-2022 REVISED ENTIRE SHEET 2/25/2022

COUNTY

WILL

ILLINOIS FED. AID PROJECT NHPP-UUD8(263)

CONTRACT NO. 62M50

SECTION

TOTAL SHEET NO.

65 23E

USER NAME | JOSE JULY | JULY |

MODEL: Default

ccurate

Existing Structure: S.N. 099-0209 Built in 1959 and widened in 1986 as a 4 lane, 4 span continuous non-composite bridge with an out to out of 55'-6" and length of 207'-0¾" Bk. to Bk. of abutments.

> k Proposed Traffic Barrier Terminal

Type 6

typ.

Bk. W. Abut.

Sta. 19+96.27

2'-03/8"

24'-07/8"

Appr. Slab

Exist. 6" Ø

Floor Drain,

W. Abut.

© Pier 1

Sta. 20+43.30

20'-0" | 11'-6" |

45'-0'

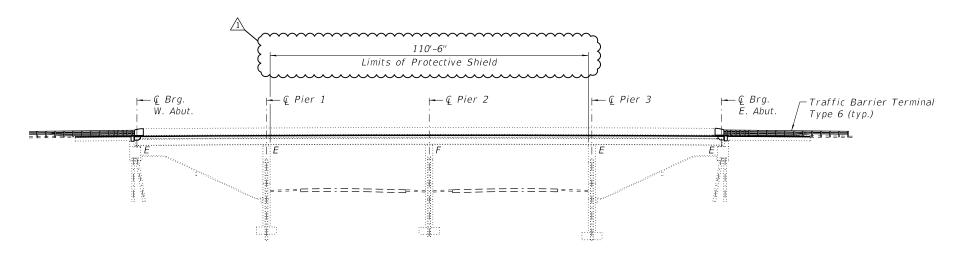
Span 1

20'-0"

.11'-6"

Traffic to be maintained utilizing stage construction.

No salvage.



ELEVATION

9°37'0" Skew, typ.

© Pier 2

56'-6"

Span 2

207'-03/4"

Bk. to Bk. Abutments

<u>PLAN</u>

Sta. 20+99.80

# VGS BRIDGE SHEETS 1 TO 21 (OF 21)

Ç Brg.

Bk. E. Abut.

2'-03/8"

24'-07/8"

Appr. Slab

Sta. 22+03.33

Existing Traffic

Barrier Terminal

Type 6 (to remain)

\* Proposed Traffic

Barrier Terminal

Type 6

#### DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

#### LOADING HS20-44

No allowance for future wearing surface

#### EXISTING DESIGN STRESSES

#### 1959 CONSTRUCTION

fc = 1,400 psi (Superstructure)

fc = 800 psi (Substructure)

fs = 20,000 psi (Reinforcement)fs = 18,000 psi (Structural Steel)

#### 1986 CONSTRUCTION

fc = 1,400 psi

fs = 24,000 psi (Reinforcement)

fs = 20,000 psi (Structural Steel)

#### PROPOSED DESIGN STRESSES

#### FIELD UNITS:

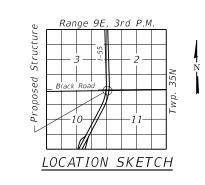
f'c = 4,000 psi (Superstructure)

fy = 60,000 psi (Reinforcement)

fy = 36,000 psi (Structural Steel)

#### SCOPE OF WORK

- 1. Remove and replace existing expansion joints at both abutments.
- Perform partial and full depth repairs to bridge deck and approach slabs.
- Install 1  $\frac{1}{2}$ " Hot-Mix Asphalt (HMA) on the approaches. Refer to Roadway Plans for quantities and details.
- the West Abutment.
- the West Abutment.
- 7. Perform Structural Repair of Concrete at all substructure units.
- the top and inside faces of the existing parapets and curbs, and the piers.



GENERAL PLAN AND ELEVATION BLACK ROAD OVER I-55 F.A.I. RTE. 55 SEC. 2020-163-BR WILL COUNTY STATION 20+99.80 STRUCTURE NO. 099-0209

REVISED SHEET 2/24/2022

JSER NAME = DESIGNED — BHS REVISED - <u>1</u> 2/16/2022 HECKED - SA REVISED -RAWN REVISED PLOT DATE = 2/14/2022 CHECKED - BHS REVISED

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

\* Attach Proposed Traffic Barrier Terminal to bridge

parapet using anchor bolts secured with chemical

adhesive per Highway Standard 631031 (Sheet 2 of 4).

11'-6"

20'-0"

45'-0"

Span 4

11'-6''

20'-0"

**GENERAL PLAN & ELEVATION** STRUCTURE NO. 099-0209 SHEET 1 OF 21 SHEETS

WILL 65 24 55 2020-163-BR CONTRACT NO. 62M50

- Scarify bridge deck  $\frac{3}{4}$ " and install 2  $\frac{1}{4}$ " Latex Concrete Overlay.
- Install steel plates on the north and south fascia beam webs at
- Install a new side retainer angle at the north fascia beam at
- Apply Protective Coat on the top surface of the deck overlay,

₽ Pier 3

Sta. 21+56.30

- Stage

Line

56'-6"

Span 3

Constr.

Existing Traffic

Barrier Terminal

Type 6 (to remain)

2. No field welding is permitted except as specified in the contract documents

3. Reinforcement bars designated (E) shall be epoxy coated.

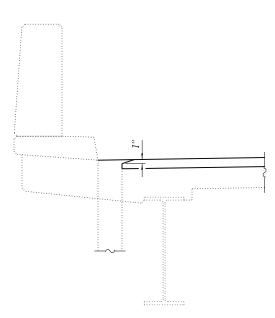
- 4. Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dve penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding  $\frac{1}{4}$ " deep shall be identified and reported to the Bureau of Bridges and Structures for further dispositions. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- 5. Plan dimensions and details relative to existing plans are subject to nominal construction variation. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variation shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 6. Existing reinforcement extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any existing reinforcement bars intended for reuse and damaged during the concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system to the satisfaction of the Engineer. Cost included with Concrete Removal.
- 7. The Contractor shall take appropriate measures to assure the Protective Coat is not applied to the floor drains.
- 8. Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.
- 9. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 10. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."
- 11. All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".

#### INDEX OF SHEETS

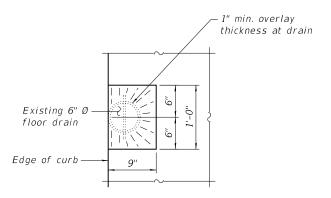
- 1 General Plan & Elevation
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#### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	15.8
Concrete Superstructure	Cu Yd	18.2
Bridge Deck Grooving	Sq Yd	1,137
Protective Coat	Sq Yd	1,936
Furnishing and Erecting Structural Steel	Pound	220
Reinforcement Bars, Epoxy Coated	Pound	2,430
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	110.0
Anchor Bolts, 1"	Each	1
Approach Slab Repair (Full Depth)	Sq Yd	59
Approach Slab Repair (Partial Depth)	Sq Yd	6
Structural Steel Removal	Pound	90
Structural Steel Repair	Pound	370
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	Sq Yd	1,159
Bridge Deck Scarification 3/4"	Sq Yd	1,159
Structural Repair of Concrete (Depth Equal to Or Less Than 5 Inches)	Sq Ft	170
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq Ft	38
Deck Slab Repair (Full Depth, Type I)	Sq Yd	2
Deck Slab Repair (Full Depth, Type II)	Sq Yd	3
Protective Shield	$\gamma_{Sq}\gamma_{d}$	682



#### SECTION AT DRAINS



#### OVERLAY TREATMENT AT DRAINS

(8 drains total)

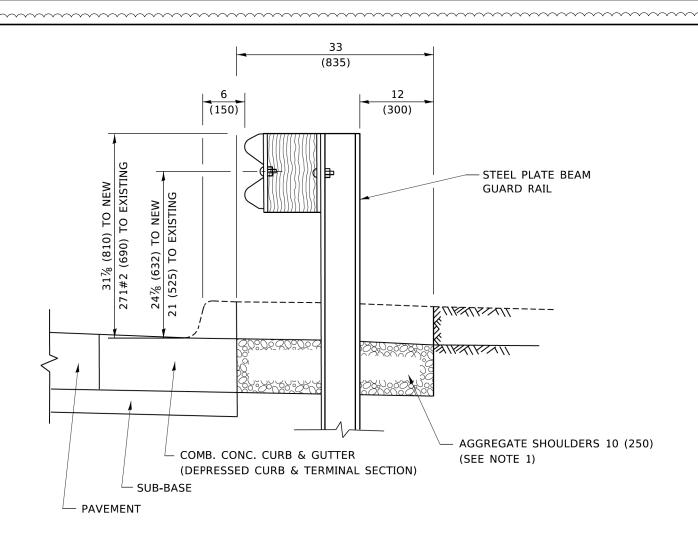
REVISED SHEET 2/24/2022:

HDR 9450 W. BRYN MAWR A ROSEMONT, IL 60018

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIALS
STRUCTURE NO. 099-0209

F.A.

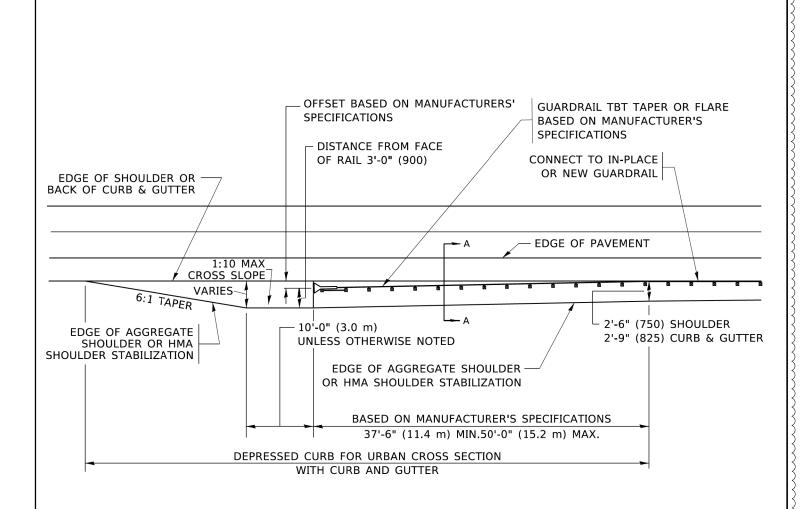


#### SECTION A-A

#### NOTES:

- 1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
- 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
- 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER** [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



## **DEPRESSED CURB AND GUTTER AND** SHOULDER TREATMENT AT TBT TY. 1 SPL.

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

> TBT = TRAFFIC BARRIER TERMINAL ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)

UNLESS OTHERWISE SHOWN.

 $\sqrt{1}$  REVISED ENTIRE SHEET 2/25/2022

**DETAILS FOR DEPRESSED CURB & GUTTER AND** SHOULDER TREATMENT AT TBT TY. 1 SPL. CONTRACT NO. 62M50

DESIGNED - M. DE YONG CHECKED -REVISED -R. BORO 08-06-2012 DATE R BORO 05-08-2015

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

