

\* 65 + 5 = 70 TOTAL SHEETS

PROJECT LOCATED IN VILLAGE OF SHOREWOOD AND CITY OF JOLIET

DEPARTMENT OF TRANSPORTATION

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

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:

BLACK ROAD = MINOR ARTERIAL

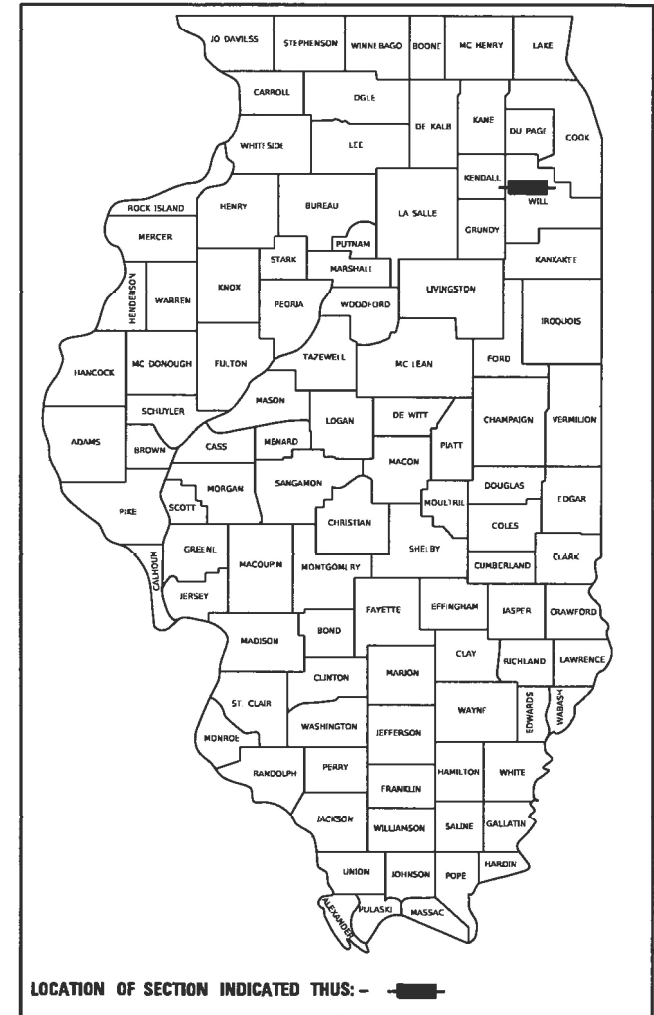
ADT: 2019

BLACK ROAD = 24,300

POSTED SPEED:

BLACK ROAD = 40 MPH

D-91-579-20



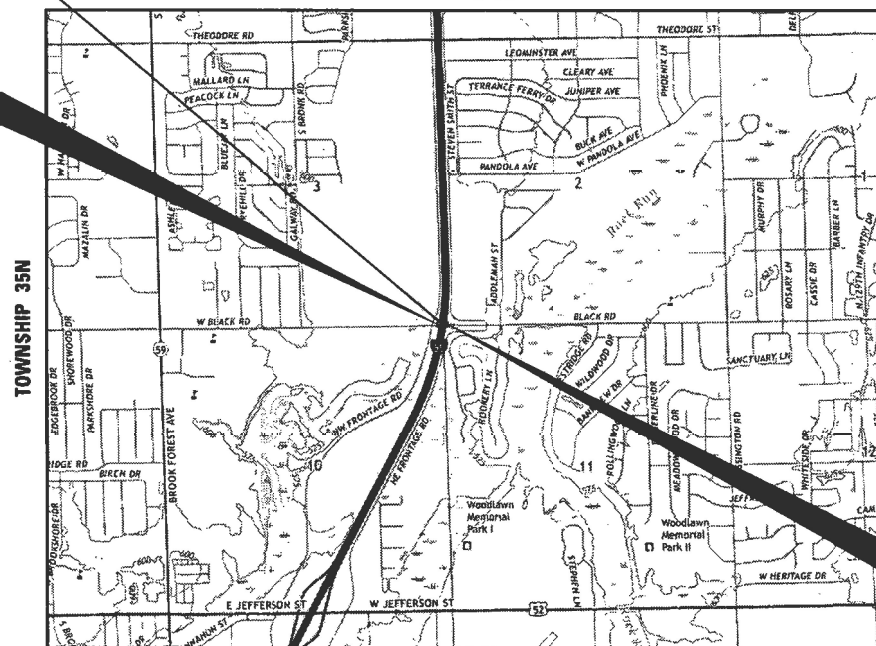
LOCATION OF SECTION INDICATED THUS: - [Symbol]

SN 099-0209 STA. 20+99.80

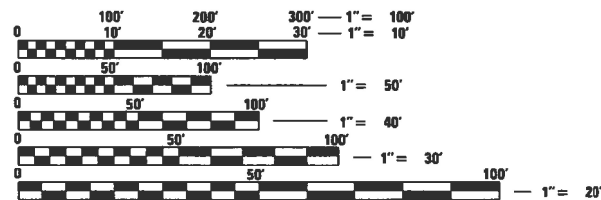
BEGIN IMPROVEMENTS BLACK ROAD STA. 19+42.20

C-91-378-20

RANGE 9E



TROY TOWNSHIP LOCATION MAP SCALE = N.T.S.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811



BY: [Signature] DATE: 12/10/2021 HDR, INC. DWGS, SHEETS 1 TO 23, 45 TO 66 LICENSE EXPIRES NOV. 30, 2023



BY: [Signature] DATE: 12/10/2021 HDR, INC. DWGS, BRIDGE SHEETS 1 TO 21 OF 21 LICENSE EXPIRES NOV. 30, 2022

END IMPROVEMENTS BLACK ROAD STA. 22+57.40

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432 PROJECT MANAGER: FAWAD AQUEEL (847) 705-4211

CONTRACT NO. 62M50

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



HDR, Inc. 9450 W. Bryn Mawr Ave., Suite 400 Chicago, IL 60018 773-380-7900 DESIGN FIRM REGISTRATION NUMBER 184.001070

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUBMITTED: December 9, 2021 [Signature] REGIONAL ENGINEER February 4, 2022 [Signature] ENGINEER OF DESIGN AND ENVIRONMENT February 4, 2022 [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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63	ARTERIAL ROAD INFORMATION SIGN (TC-22)
64 TO 65	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)
65A TO 65B	CROSS SECTIONS - NW FRONTAGE ROAD

**HIGHWAY STANDARDS**

STANDARD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT

**HIGHWAY STANDARDS CONT.**

STANDARD NO.	TITLE
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701311-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

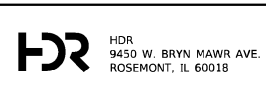
**GENERAL NOTES**

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF JOLIET, AND THE VILLAGE OF SHOREWOOD.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 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.
- 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.
- 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.
- 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)
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
- 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.
- 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.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ACROSS THE SOUTH LEF OF NW FRONTAGE ROAD AT ALL TIMES.

**COMMITMENTS**

NONE

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USER NAME = MMICZEK	DESIGNED - MSM	REVISED -
	DRAWN - YP	REVISED -
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PLOT DATE = 01/21/22022	DATE - 12/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES  
I-55 AT BLACK ROAD**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	2
			CONTRACT NO. 62M50	
		ILLINOIS	FED. AID PROJECT	

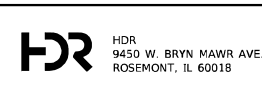


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 TD3\_Black\_Rd16.0\_CAD\_BIM6.2\_WPB6.2\_3\_CADD\_SheetRoadway\Summary of Quantities Sheet

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY URBAN	0059 BRIDGE RESURFACING 90% FED/ 10% STATE
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	96	96
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24	24
* 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	21	21
* 20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	21	21
* 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	21	21
20200100	EARTH EXCAVATION	CU YD	85	85
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	20	20
20400800	FURNISHED EXCAVATION	CU YD	135	135
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	86	86
* 25000300	SEEDING, CLASS 3	ACRE	0.3	0.3
* 25000350	SEEDING, CLASS 7	ACRE	0.3	0.3
* 25200200	SUPPLEMENTAL WATERING	UNIT	36.4	36.4
* 28000305	TEMPORARY DITCH CHECKS	FOOT	10	10
* 28000400	PERIMETER EROSION BARRIER	FOOT	224	224
* 28000510	INLET FILTERS	EACH	4	4
* 28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1,211	1,211
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	120	120

**LEGEND**

\* - DENOTES SPECIALTY ITEM



USER NAME = MMICZEK	DESIGNED - MSM	REVISED -
	DRAWN - MSM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - DJP	REVISED -
PLOT DATE = 10/1/2021	DATE - 12/21/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
I-55 AT BLACK ROAD**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	3
CONTRACT NO. 62M50			ILLINOIS FED. AID PROJECT	

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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, 1L-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
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



USER NAME = MMICZEK  
 PLOT SCALE = 100,0000' / in.  
 PLOT DATE = 10/1/2021

DESIGNED - MSM  
 DRAWN - MSM  
 CHECKED - DJP  
 DATE - 12/21/2021

REVISED -  
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 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
I-55 AT BLACK ROAD**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

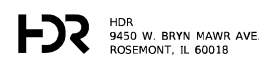
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55	2020-163-BR	WILL	65	4
CONTRACT NO. 62M50			ILLINOIS FED. AID PROJECT	

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CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY URBAN	0059 BRIDGE RESURFACING 90% FED/ 10% STATE
52100520	ANCHOR BOLTS, 1"	EACH	1	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	281	281
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	163	163
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2
63200310	GUARDRAIL REMOVAL	FOOT	250	250
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	30	30
63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	1	1
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	85	85
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	20	20
67100100	MOBILIZATION	L SUM	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	5,323	5,323
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	73	73
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	13,313	13,313
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	1,237	1,237

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY URBAN	0059 BRIDGE RESURFACING 90% FED/ 10% STATE
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	97	97
70400100	TEMPORARY CONCRETE BARRIER	FOOT	537.5	537.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	462.5	462.5
70600241	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1
70600341	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	247	247
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	12,574	12,574
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,085	1,085
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	910	910
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	107	107
* 78004235	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 7"	FOOT	2,372	2,372
* 78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	2,372	2,372
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	40	40
* 78100300	REPLACEMENT REFLECTOR	EACH	236	236
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	31	31
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	24	24
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	40	40
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5,886	5,886

**LEGEND**  
 \* - DENOTES SPECIALTY ITEM



USER NAME = MMICZEK	DESIGNED - MSM	REVISED -
DRAWN - MSM	REVISIONS -	
PLOT SCALE = 100.0000' / in.	CHECKED - DJP	REVISED -
PLOT DATE = 10/1/2021	DATE - 12/21/2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 I-55 AT BLACK ROAD**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	5
CONTRACT NO. 62M50			ILLINOIS FED. AID PROJECT	

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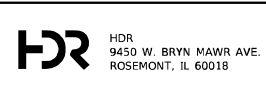
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY URBAN	0059 BRIDGE RESURFACING 90% FED/ 10% STATE
* 89000050	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1	1
* X2100002	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	UNIT	100	100
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	236	236
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPEC IAL	EACH	1	1
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	59	59
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	6	6
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	90	90
Z0001905	STRUCTURAL STEEL REPAIR	POUND	370	370
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	74	74
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	1,159	1,159
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,159	1,159
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	170	170
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	38	38
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2	2
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	3	3
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY URBAN	0059 BRIDGE RESURFACING 90% FED/ 10% STATE
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5	5
Ø Z0076600	TRAINEES	HOURS	500	500
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500

**LEGEND**

\* - DENOTES SPECIALTY ITEM

Ø 0042



USER NAME = MMICZEK	DESIGNED - MSM	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - MSM	REVISED -
PLOT DATE = 10/1/2021	CHECKED - DJP	REVISED -
	DATE - 12/21/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
I-55 AT BLACK ROAD**

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	6
CONTRACT NO. 62M50			ILLINOIS FED. AID PROJECT	

EARTHWORK TABLE									
LOCATION	EARTH EXCAVATION	**SUITABLE EXCAVATION	EMBANKMENT	EARTHWORK BALANCE	FURNISHED EXCAVATION	TOPSOIL REMOVAL	TOPSOIL EXCAVATION AND PLACEMENT	NON-SPECIAL WASTE DISPOSAL	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
	20200100	---	---	---	20400800	---	21101505	66900200	20201200
NW FRONTAGE ROAD / BLACK ROAD	85	0	135	-135	135	86	86	85	20
<b>PROJECT TOTAL</b>	<b>85</b>	<b>0</b>	<b>135</b>	<b>-135</b>	<b>135</b>	<b>86</b>	<b>86</b>	<b>85</b>	<b>20</b>

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 9450 W. BRYN MAWR AVE.  
 ROSEMONT, IL 60018

USER NAME = MMICZEK  
 PLOT SCALE = 200,0000 ' / in.  
 PLOT DATE = 01/21/22022

DESIGNED - MSM  
 DRAWN - YP  
 CHECKED - DP  
 DATE - 12/17/2021

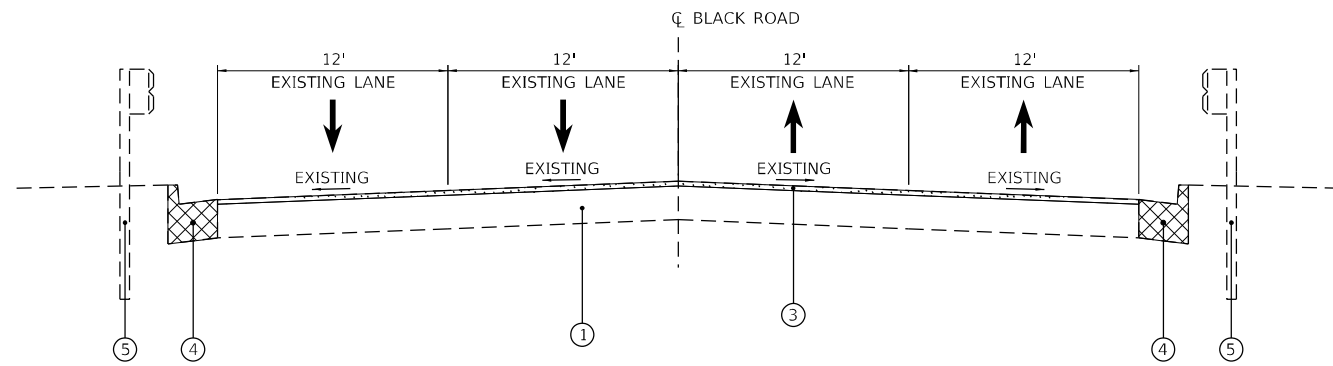
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES  
 I-55 AT BLACK ROAD**

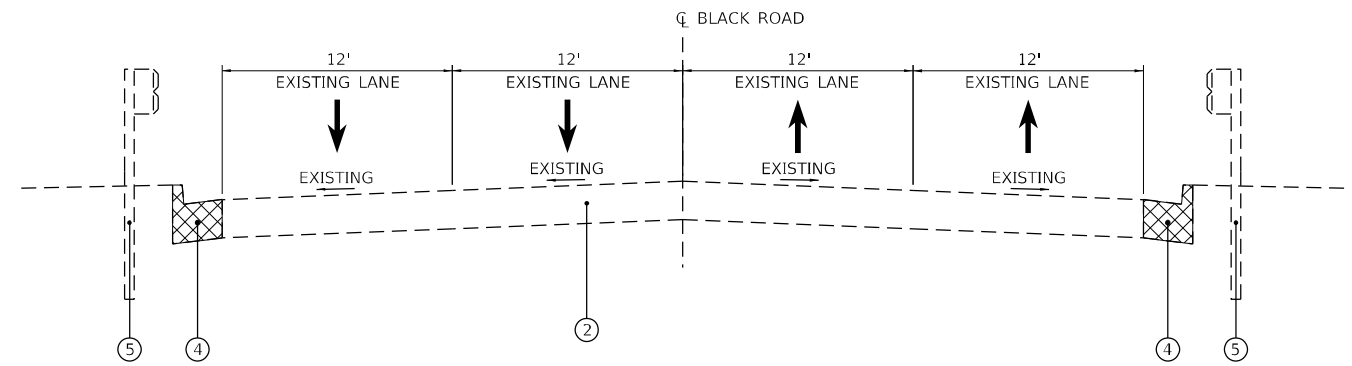
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M50	



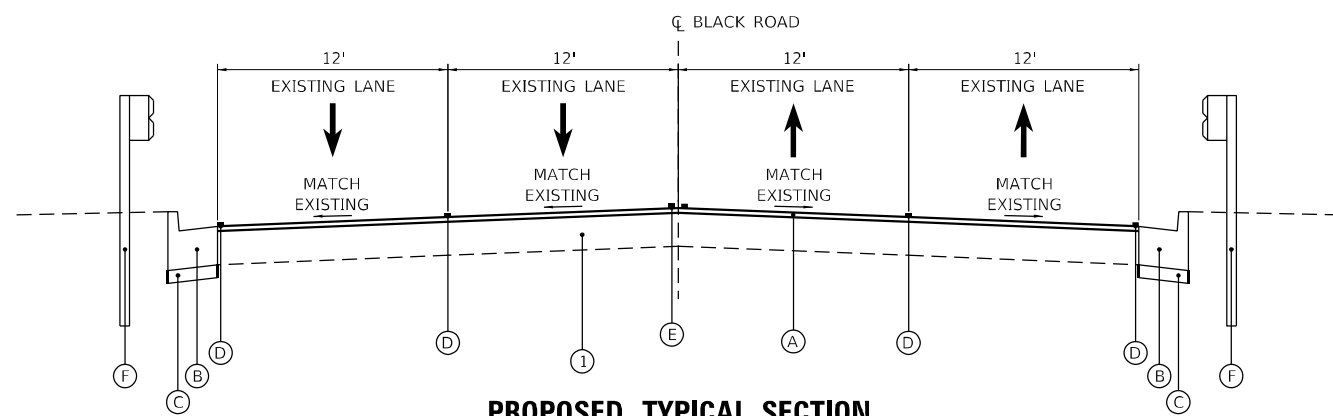
**EXISTING TYPICAL SECTION**

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



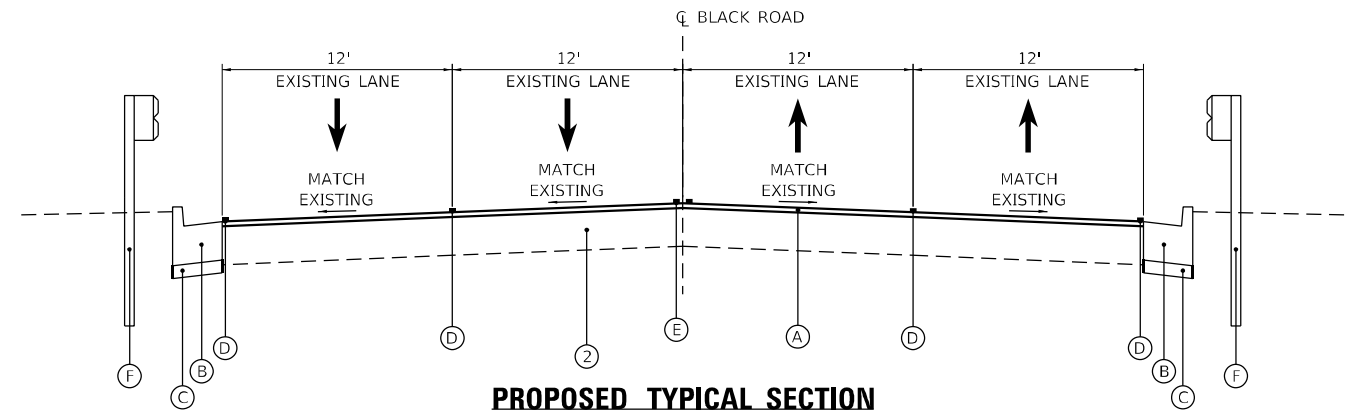
**EXISTING TYPICAL SECTION**

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



**PROPOSED TYPICAL SECTION**

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



**PROPOSED 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

**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**

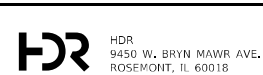
- Ⓐ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 (1.5")
- Ⓑ PROPOSED CONCRETE CURB AND GUTTER, TYPE B-6.24
- Ⓒ SUBBASE GRANULAR MATERIAL, TYPE B 4"
- Ⓓ THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE
- Ⓔ THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW
- Ⓕ STEEL PLATE BEAM GUARDRAIL, TYPE A,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

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
MIXTURE TYPE	AIR VOIDS @ NDES	QMP	MTD (REQUIRED?)
<b>PAVEMENT RESURFACING</b>			
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; 1.5"	4% @ 70 GYR.	QC/QA	
<b>PAVEMENT WIDENING</b>			
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; 2"	4% @ 70 GYR.	QC/QA	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 9"	4% @ 70 GYR.	QC/QA	
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)			

NOTES FOR HMA MIXTURE REQUIREMENTS:

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- 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.

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USER NAME = MMICZEK  
 DESIGNED - MSM  
 DRAWN - YJP  
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 CHECKED - DP  
 PLOT DATE = 10/1/2021  
 DATE - 12/10/2021

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

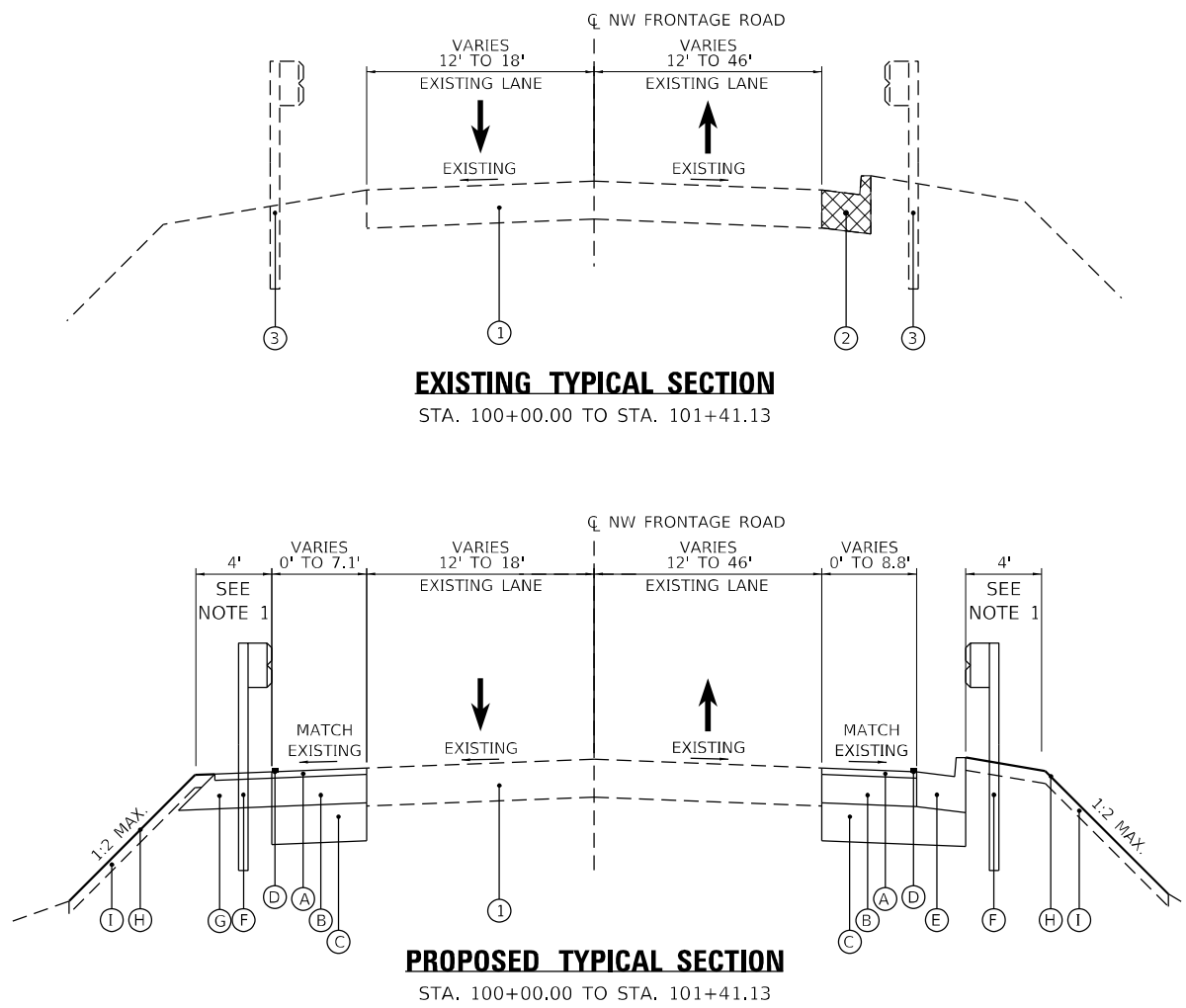
**TYPICAL SECTIONS**  
**I-55 AT BLACK ROAD**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	8
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				



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**EXISTING LEGEND**

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

**PROPOSED LEGEND**

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



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DRAWN - YJP	REVISIONS -	
PLOT SCALE = 10,0000 * / in.	CHECKED - DP	REVISIONS -
PLOT DATE = 01/21/22022	DATE - 12/10/2021	REVISIONS -

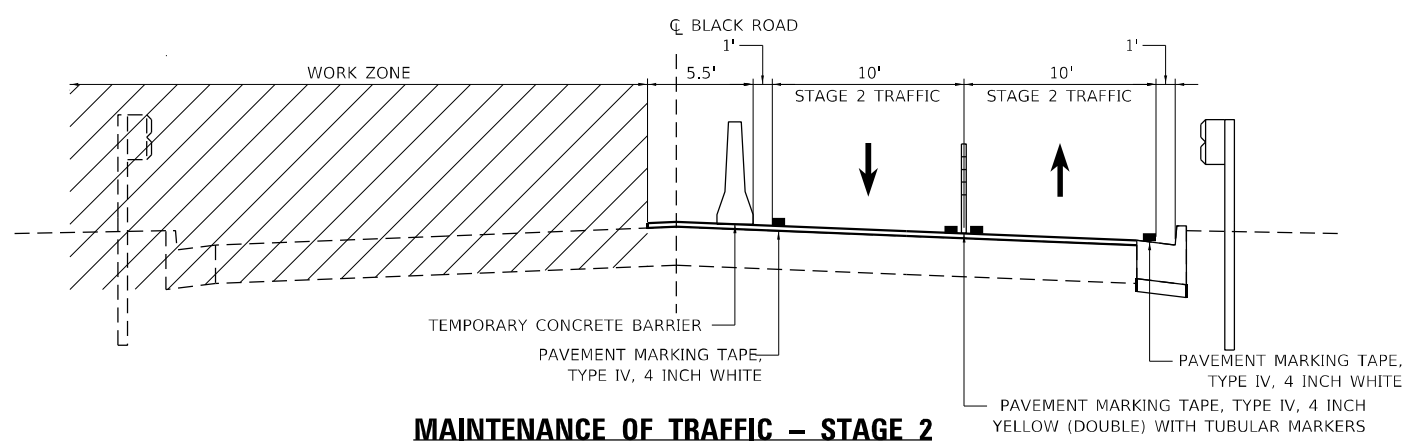
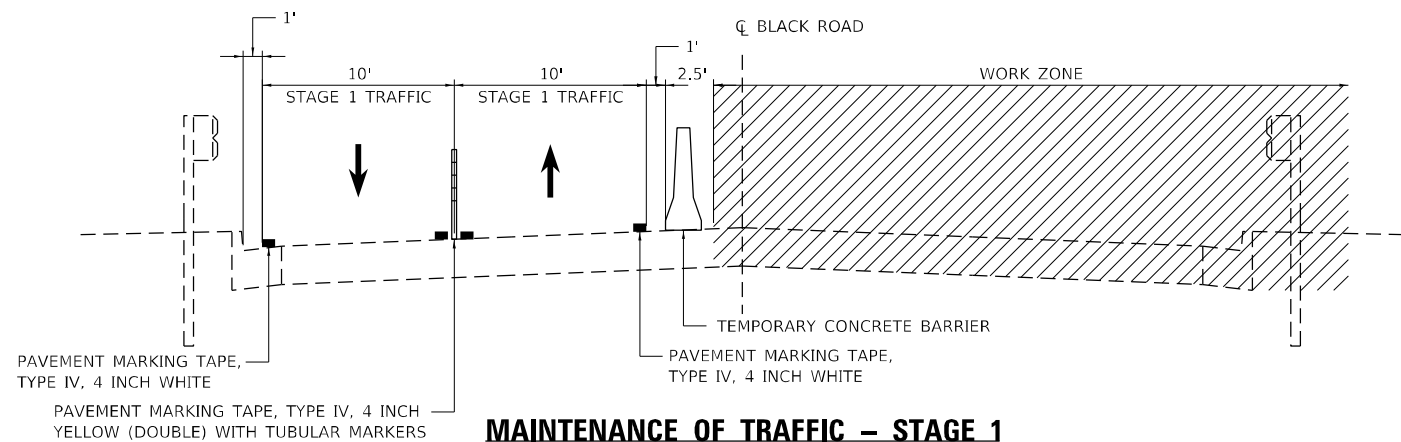
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS NW FRONTAGE ROAD</b>	
SCALE: N.T.S.	SHEET 2 OF 2 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	9
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				

## MOT GENERAL NOTES

- 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).
- 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.
- 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.
- ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAVEMENT MARKING TAPE, TYPE IV.
- 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.
- 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).
- 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.
- DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID ANY CONSTRUCTION DEBRIS FROM ENCROACHING INTO TRAVEL LANES.
- PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES. ANY TEMPORARY SIGNAGE, TEMPORARY ACCESS PATHS, OR OTHER ITEMS NEEDED TO REROUTE 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).
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ACROSS THE SOUTH LEG OF NW FRONTAGE ROAD AT ALL TIMES.
- 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.
- CONTRACTOR SHALL MAINTAIN SATISFACTORY INGRESS AND EGRESS TO ADJACENT PROPERTIES THROUGHOUT THE CONSTRUCTION.
- 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.



## SUGGESTED STAGING AND MAINTENANCE OF TRAFFIC

### PRE-STAGE

#### CONSTRUCTION STAGING:

- CONSTRUCT PAVEMENT WIDENING, CONCRETE CURB AND GUTTER, AND GUARDRAIL AT NORTH LEG OF NW FRONTAGE ROAD. COMBINATION CURB AND GUTTER SHALL BE CONSTRUCTED TO FINAL ELEVATION ACCORDING TO PROPOSED OVERLAY TRANSITION.

#### MAINTENANCE OF TRAFFIC:

- UTILIZE DAY TIME LANE CLOSURES TO CONSTRUCT WIDENING AT NORTHWEST FRONTAGE ROAD.
- MAINTAIN FOUR-LANE TWO-WAY TRAFFIC ON ON BLACK ROAD.
- REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS.

### STAGE 1

#### CONSTRUCTION STAGING:

- REPLACE BRIDGE JOINTS AND REPAIR APPROACH SLAB ON EASTBOUND HALF 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.
- SCARIFY BRIDGE DECK 3/4" ON WESTBOUND HALF 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:

- MAINTAIN TWO-LANE TWO-WAY TRAFFIC ON EASTBOUND 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.

### POST STAGE

#### CONSTRUCTION STAGING:

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

#### MAINTENANCE OF TRAFFIC:

- UTILIZE DAY TIME LANE CLOSURES TO CONSTRUCT BUTT JOINT AND OVERLAY.
- 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:

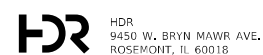
PERFORM THE FOLLOWING WORK CONCURRENTLY WITH SUPERSTRUCTURE REPAIRS:

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

#### MAINTENANCE OF TRAFFIC:

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

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USER NAME = MMICZEK  
 PLOT SCALE = 40,0000 \* / in.  
 PLOT DATE = 10/1/2021

DESIGNED - MSM  
 DRAWN - YJP  
 CHECKED - DP  
 DATE - 12/10/2021

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

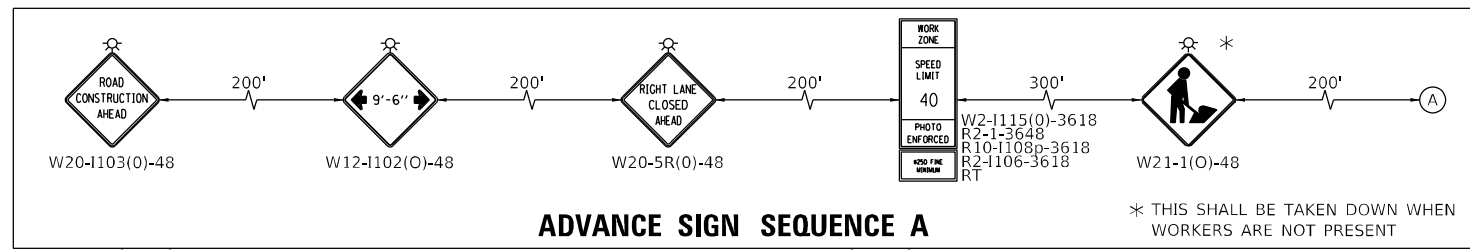
**SUGGESTED BLACK ROAD TRAFFIC CONTROL  
 MAINTENANCE OF TRAFFIC NOTES & SEQUENCE OF CONSTRUCTION**

SCALE: N.T.S.    SHEET 1 OF 8 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	10
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				

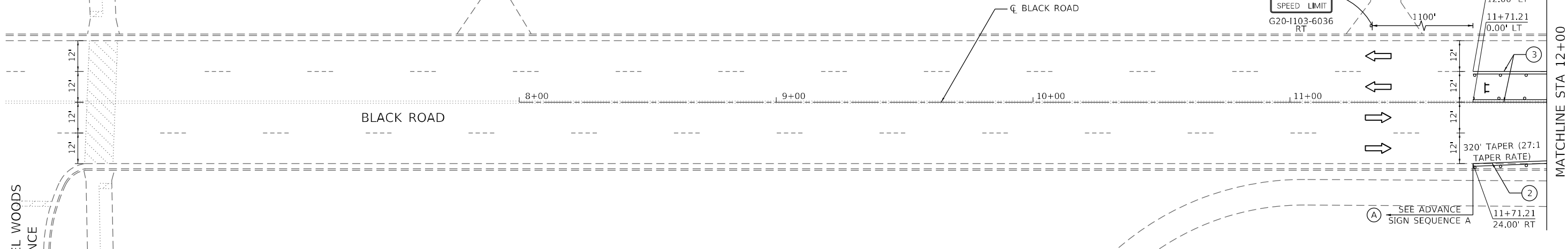


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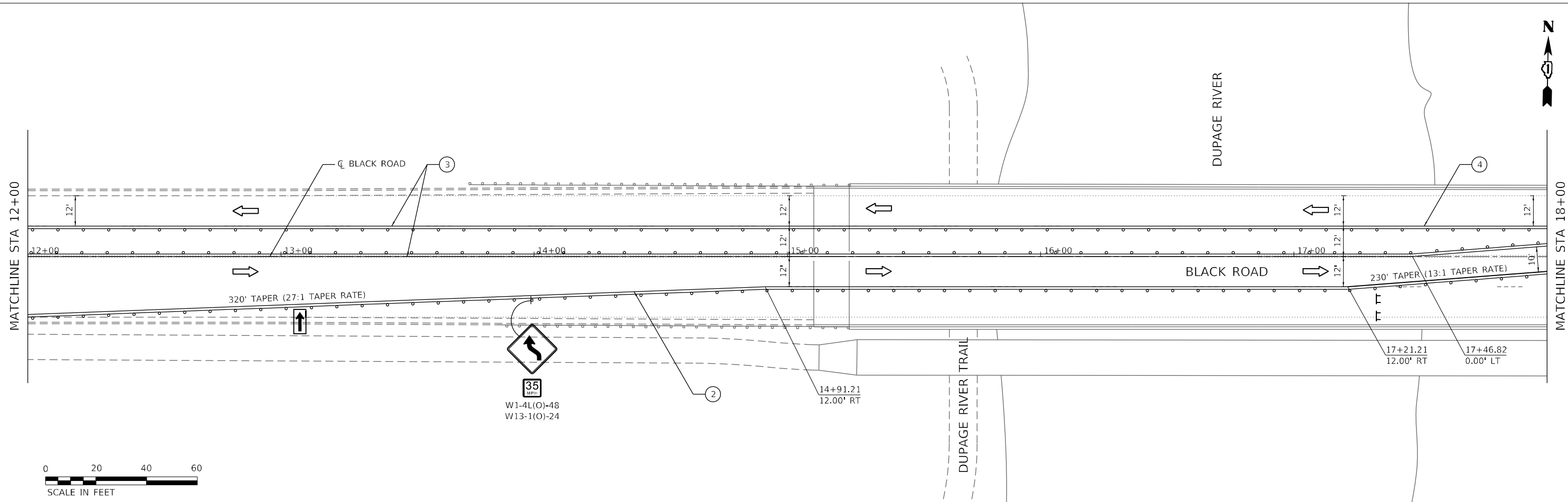
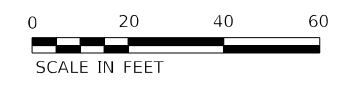
**MOT SYMBOL LEGEND**

- STAGE 1 WORK ZONE
- BARRICADE TYPE III
- BARRICADE TYPE III WITH FLASHING LIGHT
- CONSTRUCTION TRAFFIC CONTROL SIGN
- IMPACT ATTENUATORS, TEMPORARY, TEST LEVEL 2
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- TYPE II BARRICADE OR DRUMS @ 50 FT CENTERS ALONG TANGENT & 20 FT CENTERS ALONG TAPERS, 10' @ RADII & CURVES



**MOT PROPOSED LEGEND**

- ① PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS
- ② PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID WHITE)
- ③ PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID YELLOW)
- ④ PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE SOLID YELLOW)
- ⑤ PAVEMENT MARKING TAPE, TYPE IV 6" (SOLID WHITE)
- ⑥ PAVEMENT MARKING TAPE, TYPE IV 6" (6' SKIP - 2' DASH WHITE)
- ⑦ PAVEMENT MARKING TAPE, TYPE IV 24" (SOLID WHITE)



USER NAME = MMICZEK	DESIGNED - MSM	REVISED -
DRAWN - YJP	REVISIONS -	
CHECKED - DP	REVISIONS -	
DATE - 12/10/2021	REVISIONS -	

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

**SUGGESTED BLACK ROAD TRAFFIC CONTROL PLAN**  
**STAGE 1**

SCALE: 1"=20'    SHEET 3 OF 8 SHEETS    STA. 6+00    TO STA. 18+00

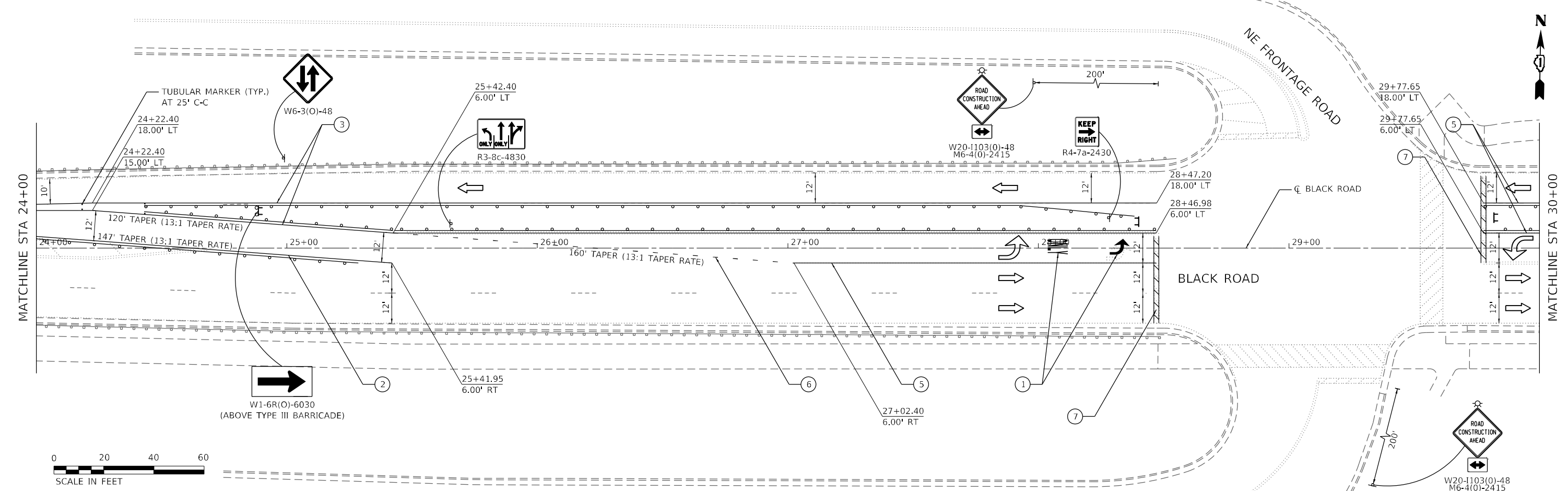
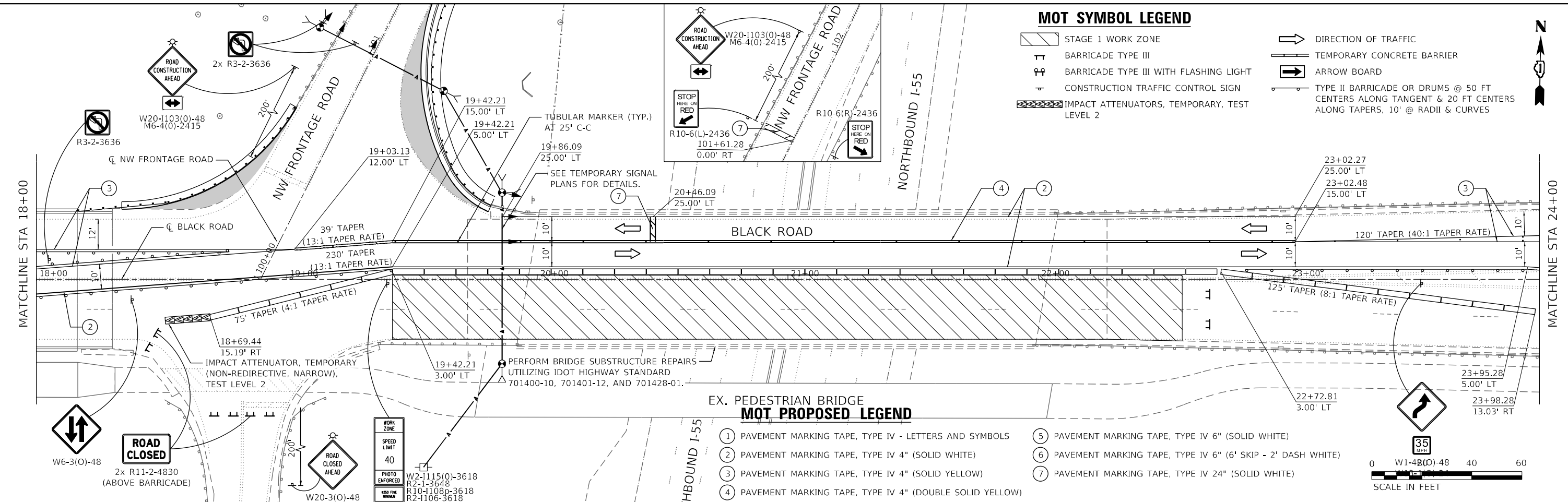
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	12
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				

**MOT SYMBOL LEGEND**

- STAGE 1 WORK ZONE
- BARRICADE TYPE III
- BARRICADE TYPE III WITH FLASHING LIGHT
- CONSTRUCTION TRAFFIC CONTROL SIGN
- IMPACT ATTENUATORS, TEMPORARY, TEST LEVEL 2
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- TYPE II BARRICADE OR DRUMS @ 50 FT CENTERS ALONG TANGENT & 20 FT CENTERS ALONG TAPERS, 10' @ RADII & CURVES

**EX. PEDESTRIAN BRIDGE  
MOT PROPOSED LEGEND**

- ① PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS
- ② PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID WHITE)
- ③ PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID YELLOW)
- ④ PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE SOLID YELLOW)
- ⑤ PAVEMENT MARKING TAPE, TYPE IV 6" (SOLID WHITE)
- ⑥ PAVEMENT MARKING TAPE, TYPE IV 6" (6" SKIP - 2' DASH WHITE)
- ⑦ PAVEMENT MARKING TAPE, TYPE IV 24" (SOLID WHITE)



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 PLOT SCALE: 40,0000 \*/ in.  
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 DRAWN - YJP  
 CHECKED - DP  
 DATE - 12/10/2021  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

USER NAME = mmiczek	DESIGNED - MSM	REVISED -
DRAWN - YJP	REVISED -	
CHECKED - DP	REVISED -	
DATE - 12/10/2021	REVISED -	

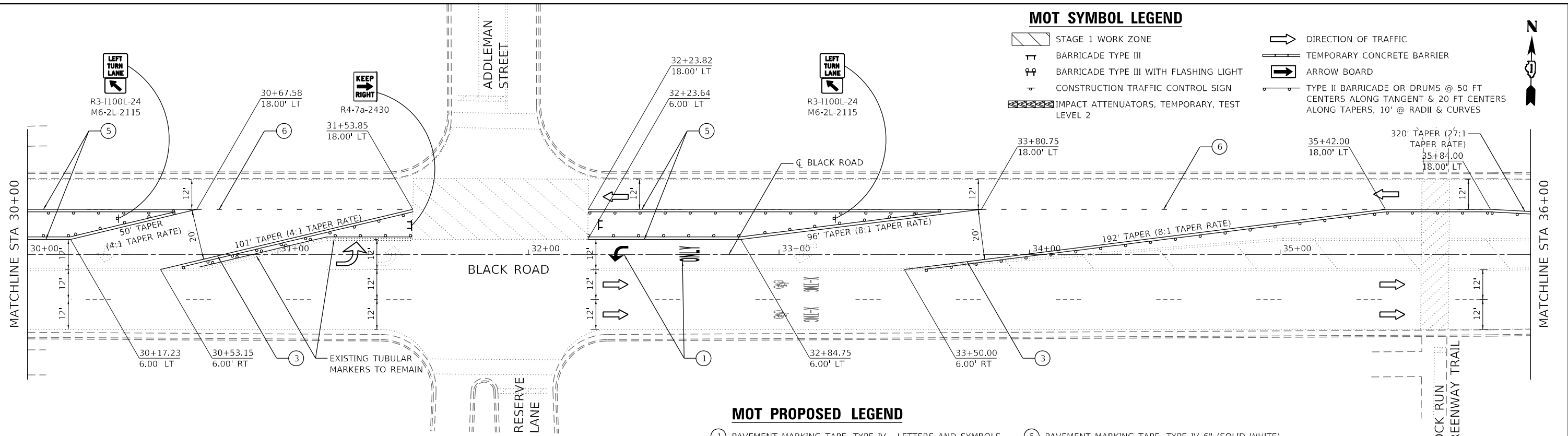
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED BLACK ROAD TRAFFIC CONTROL PLAN  
STAGE 1**  
 SCALE: 1"=20'  
 SHEET 4 OF 8 SHEETS  
 STA. 18+00 TO STA. 30+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	13
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				

**MOT SYMBOL LEGEND**

- STAGE 1 WORK ZONE
- BARRICADE TYPE III
- BARRICADE TYPE III WITH FLASHING LIGHT
- CONSTRUCTION TRAFFIC CONTROL SIGN
- IMPACT ATTENUATORS, TEMPORARY, TEST LEVEL 2
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- TYPE II BARRICADE OR DRUMS @ 50 FT CENTERS ALONG TANGENT & 20 FT CENTERS ALONG TAPERS, 10' @ RADII & CURVES

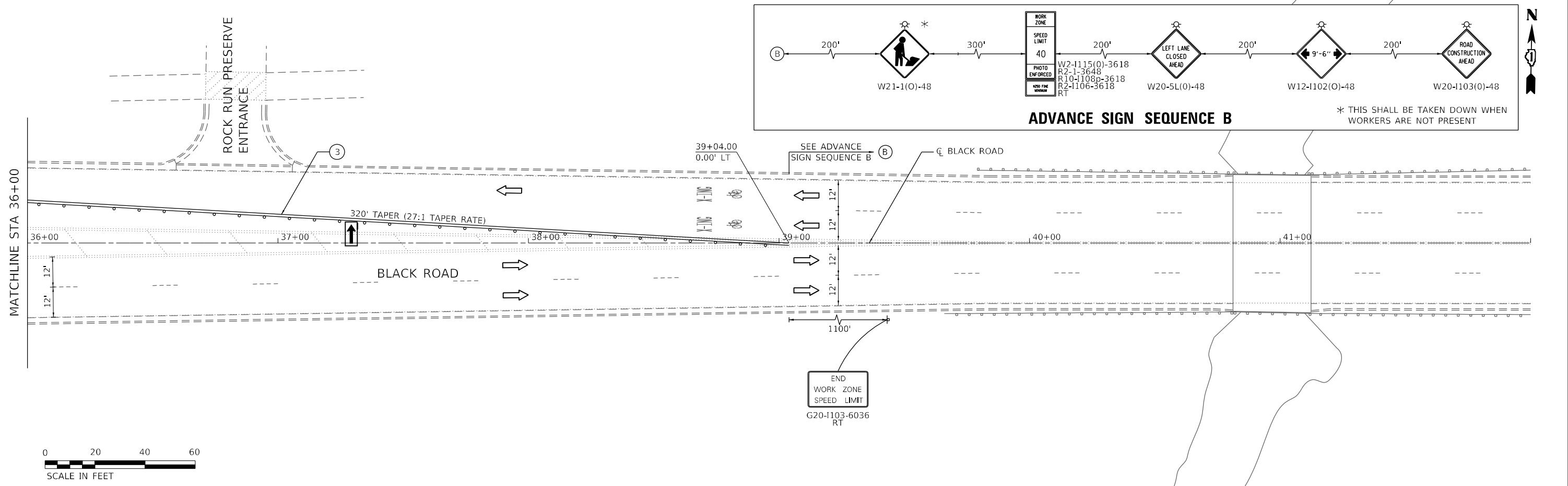
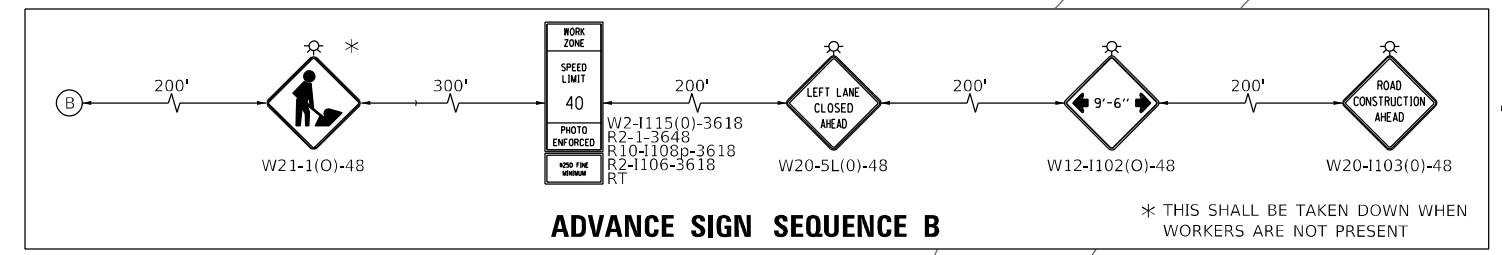


**MOT PROPOSED LEGEND**

- ① PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS
- ② PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID WHITE)
- ③ PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID YELLOW)
- ④ PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE SOLID YELLOW)
- ⑤ PAVEMENT MARKING TAPE, TYPE IV 6" (SOLID WHITE)
- ⑥ PAVEMENT MARKING TAPE, TYPE IV 6" (6' SKIP - 2' DASH WHITE)
- ⑦ PAVEMENT MARKING TAPE, TYPE IV 24" (SOLID WHITE)



**ADVANCE SIGN SEQUENCE B**



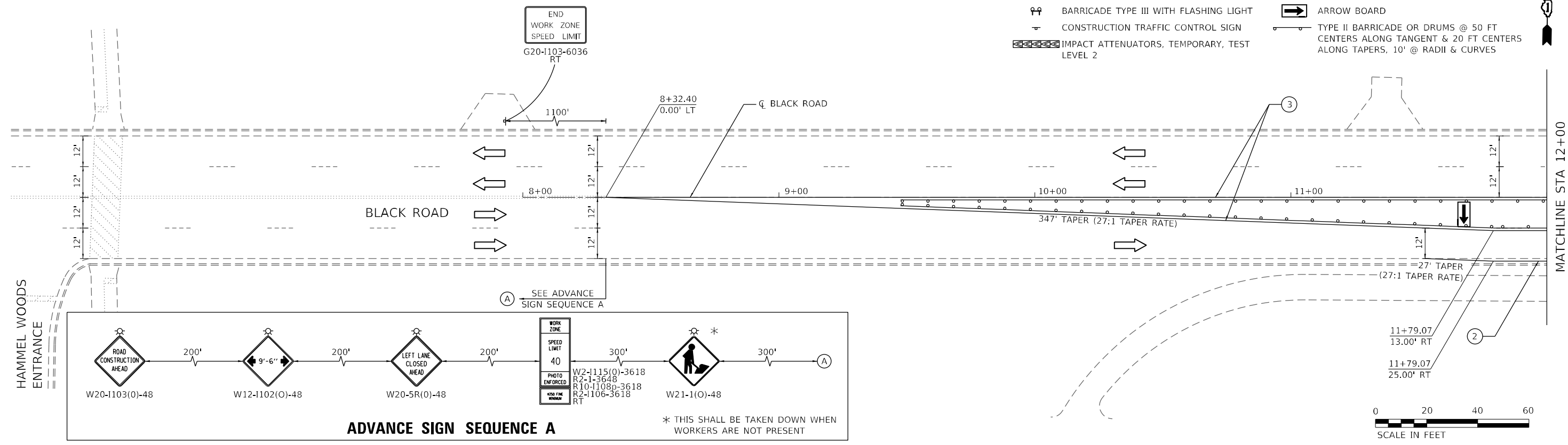
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HDR 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	USER NAME = MMICZEK	DESIGNED - MSM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED BLACK ROAD TRAFFIC CONTROL PLAN</b> <b>STAGE 1</b>		F.A.I. RTE. 55	SECTION 2020-163-BR	COUNTY WILL	TOTAL SHEETS 65	SHEET NO. 14
	PLOT SCALE = 40,0000' / in.	CHECKED - DP	REVISED -		SCALE: 1"=20'	SHEET 5 OF 8 SHEETS	STA. 30+00 TO STA. 42+00	CONTRACT NO. 62M50		ILLINOIS FED. AID PROJECT	
PLOT DATE = 10/1/2021	DATE - 12/10/2021	REVISED -	REVISED -								



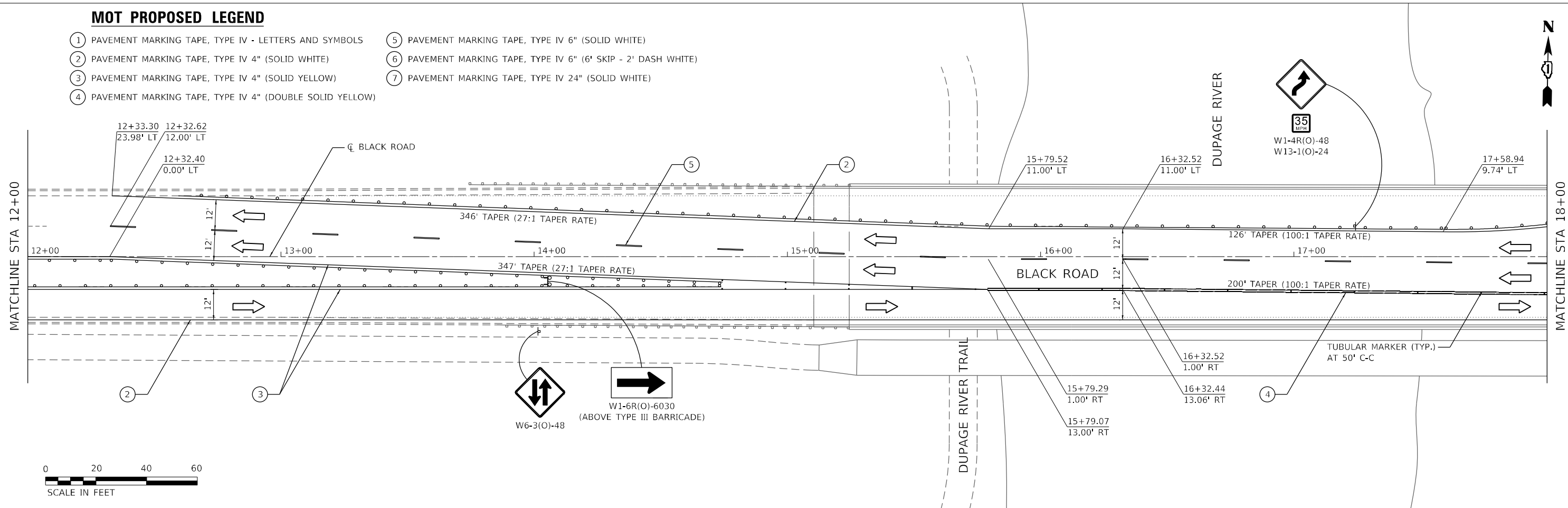
**LEGEND**

- STAGE 2 WORK ZONE
- BARRICADE TYPE III
- BARRICADE TYPE III WITH FLASHING LIGHT
- CONSTRUCTION TRAFFIC CONTROL SIGN
- IMPACT ATTENUATORS, TEMPORARY, TEST LEVEL 2
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- TYPE II BARRICADE OR DRUMS @ 50 FT CENTERS ALONG TANGENT & 20 FT CENTERS ALONG TAPERS, 10' @ RADII & CURVES

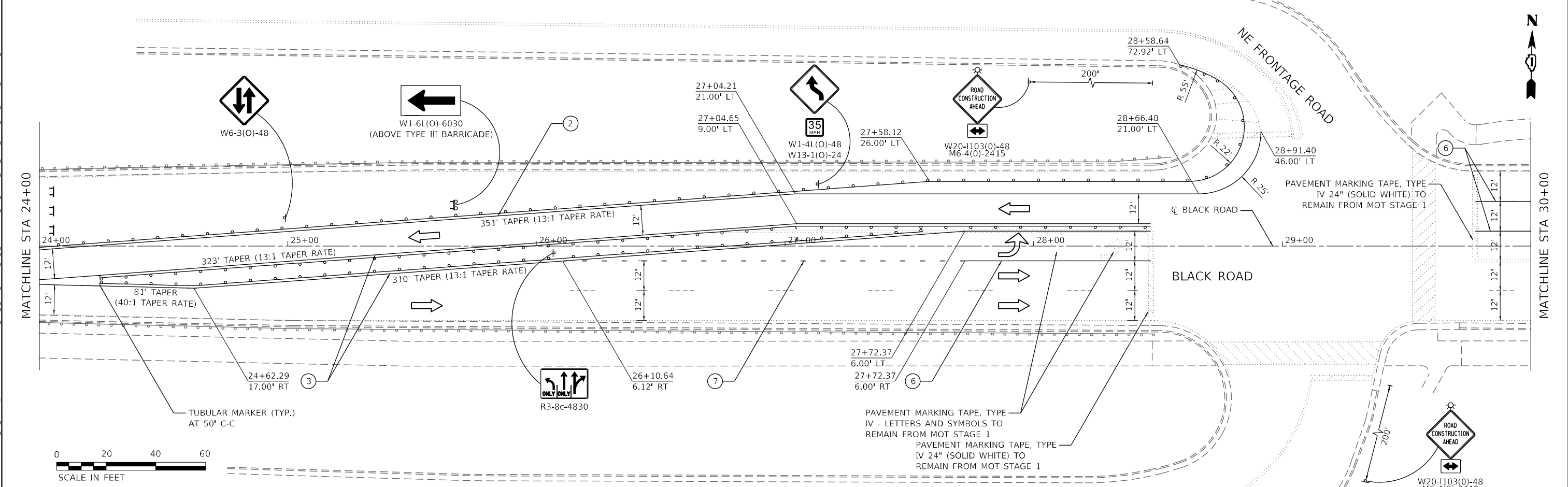
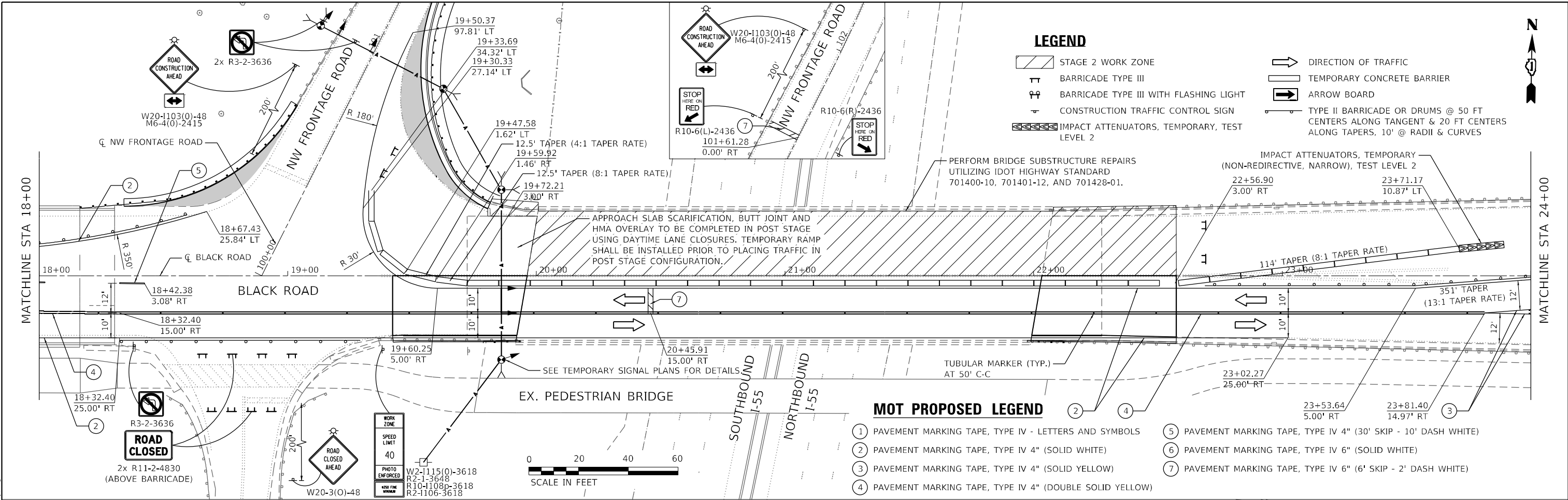


**MOT PROPOSED LEGEND**

- ① PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS
- ② PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID WHITE)
- ③ PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID YELLOW)
- ④ PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE SOLID YELLOW)
- ⑤ PAVEMENT MARKING TAPE, TYPE IV 6" (SOLID WHITE)
- ⑥ PAVEMENT MARKING TAPE, TYPE IV 6" (6' SKIP - 2' DASH WHITE)
- ⑦ PAVEMENT MARKING TAPE, TYPE IV 24" (SOLID WHITE)



MODEL: Default  
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 USER: mmiczek  
 PLOT DATE: 01/21/2022

USER NAME = mmiczek	DESIGNED - MSM	REVISED -
DRAWN - YJP	REVISED -	
CHECKED - DP	REVISED -	
DATE - 12/10/2021	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

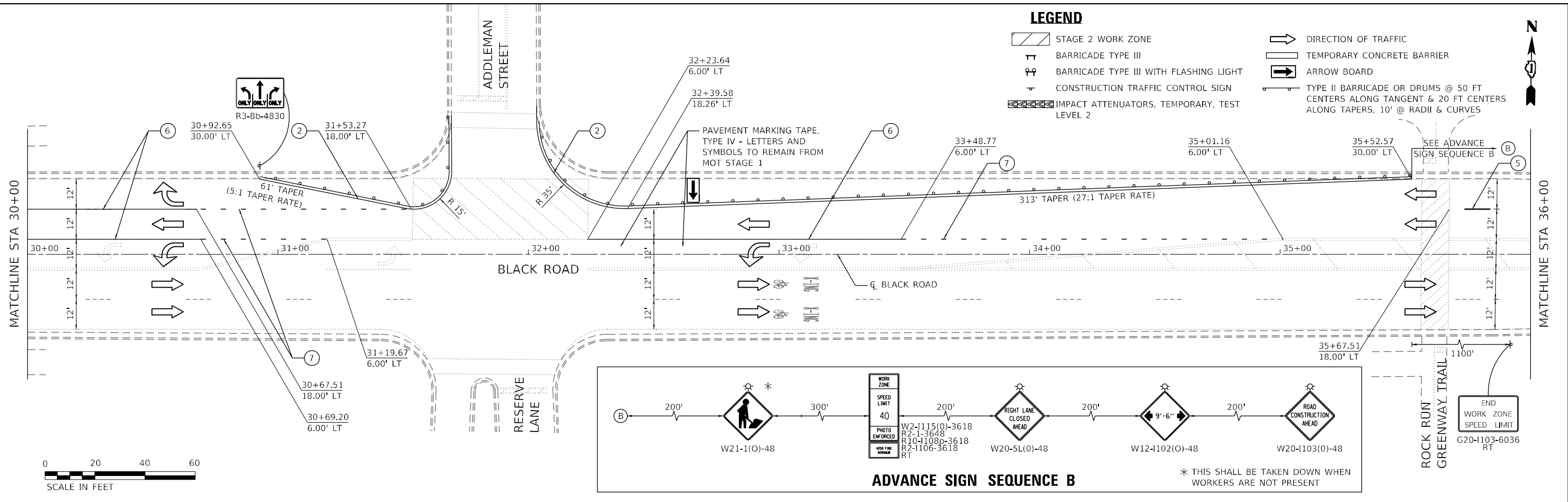
**SUGGESTED BLACK ROAD TRAFFIC CONTROL PLAN  
 STAGE 2**

SCALE: 1"=20'    SHEET 7 OF 8 SHEETS    STA. 18+00 TO STA. 30+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	16
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				

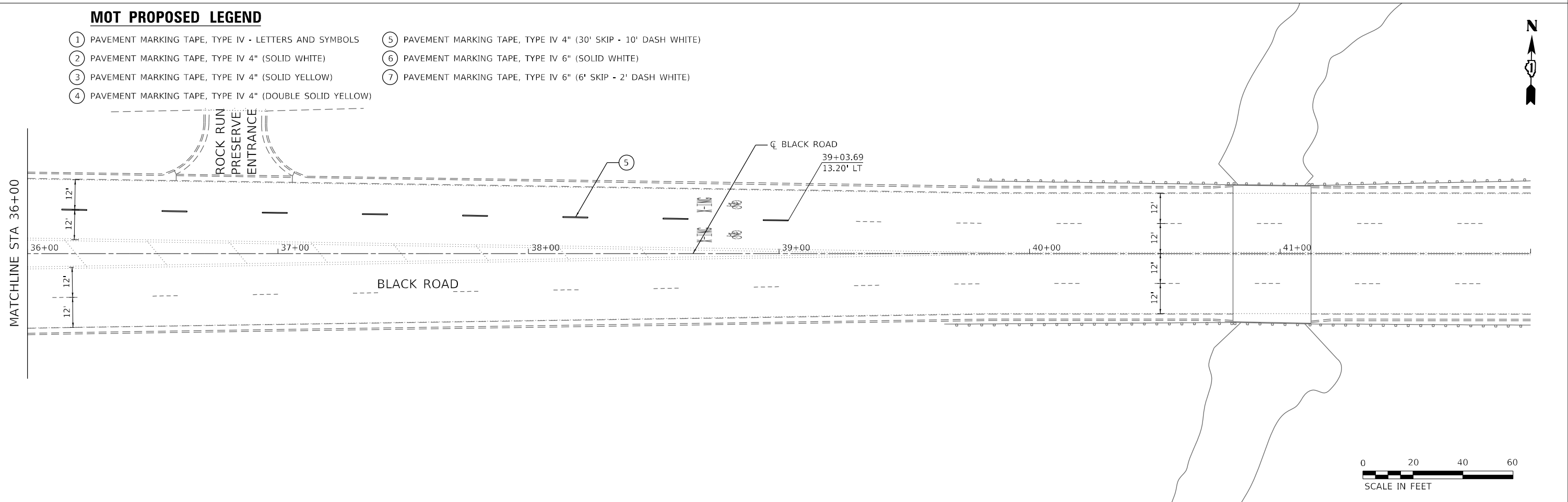
**LEGEND**

- STAGE 2 WORK ZONE
- BARRICADE TYPE III
- BARRICADE TYPE III WITH FLASHING LIGHT
- CONSTRUCTION TRAFFIC CONTROL SIGN
- IMPACT ATTENUATORS, TEMPORARY, TEST LEVEL 2
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- TYPE II BARRICADE OR DRUMS @ 50 FT CENTERS ALONG TANGENT & 20 FT CENTERS ALONG TAPERS, 10' @ RADII & CURVES



**MOT PROPOSED LEGEND**

- ① PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS
- ② PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID WHITE)
- ③ PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID YELLOW)
- ④ PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE SOLID YELLOW)
- ⑤ PAVEMENT MARKING TAPE, TYPE IV 4" (30' SKIP - 10' DASH WHITE)
- ⑥ PAVEMENT MARKING TAPE, TYPE IV 6" (SOLID WHITE)
- ⑦ PAVEMENT MARKING TAPE, TYPE IV 6" (6' SKIP - 2' DASH WHITE)



MODEL: Default  
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	USER NAME = MMICZEK DESIGNED - MSM DRAWN - YJP CHECKED - DP DATE - 12/10/2021	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED BLACK ROAD TRAFFIC CONTROL PLAN STAGE 2</b>	F.A.I. RTE. 55 SECTION 2020-163-BR COUNTY WILL TOTAL SHEETS 65 SHEET NO. 17	CONTRACT NO. 62M50 ILLINOIS FED. AID PROJECT
	SCALE: 1"=20'    SHEET 8 OF 8 SHEETS    STA. 30+00 TO STA. 42+00					

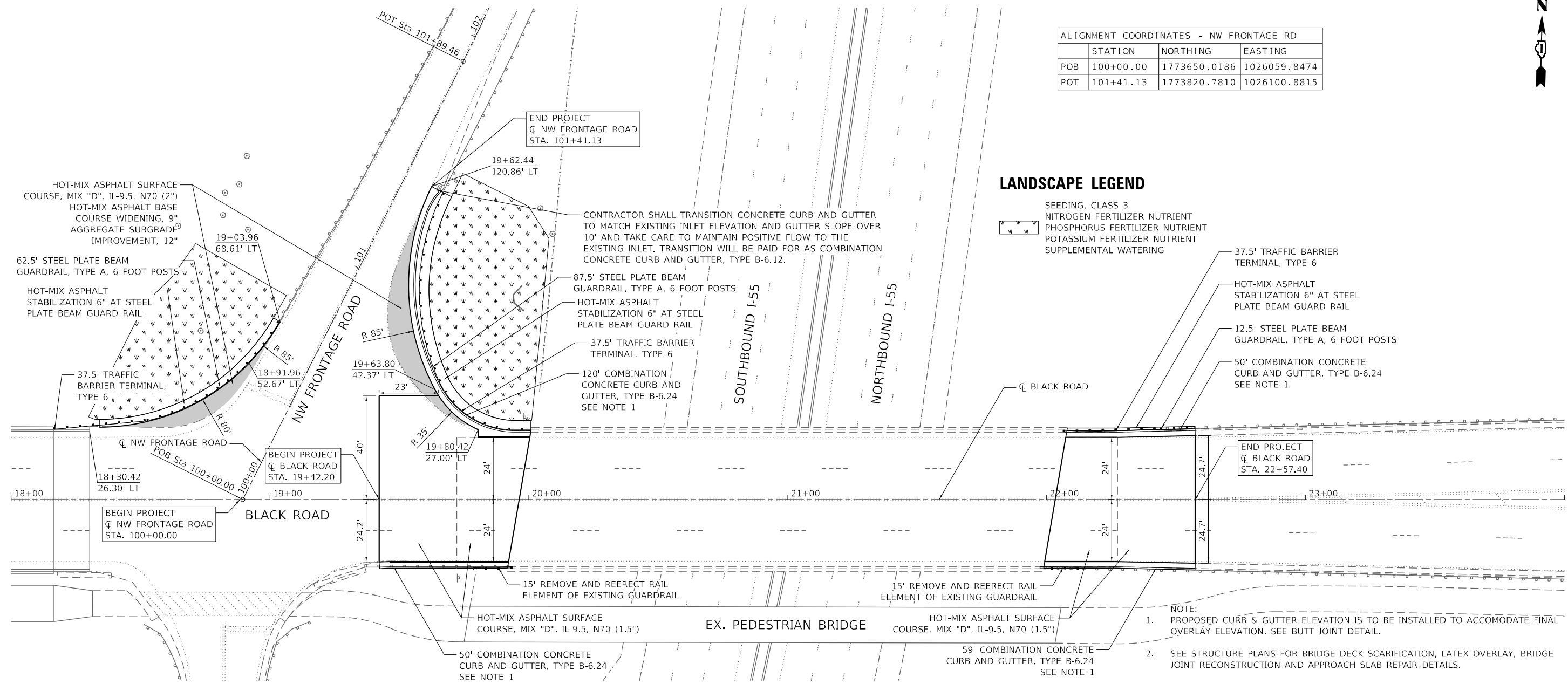




ALIGNMENT COORDINATES - NW FRONTAGE RD			
STATION	NORTHING	EASTING	
POB	100+00.00	1773650.0186	1026059.8474
POT	101+41.13	1773820.7810	1026100.8815

**LANDSCAPE LEGEND**

- SEEDING, CLASS 3
- NITROGEN FERTILIZER NUTRIENT
- PHOSPHORUS FERTILIZER NUTRIENT
- POTASSIUM FERTILIZER NUTRIENT
- SUPPLEMENTAL WATERING
- 37.5' TRAFFIC BARRIER TERMINAL, TYPE 6
- HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL
- 12.5' STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- 50' COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 SEE NOTE 1



- NOTE:
- PROPOSED CURB & GUTTER ELEVATION IS TO BE INSTALLED TO ACCOMMODATE FINAL OVERLAY ELEVATION. SEE BUTT JOINT DETAIL.
  - SEE STRUCTURE PLANS FOR BRIDGE DECK SCARIFICATION, LATEX OVERLAY, BRIDGE JOINT RECONSTRUCTION AND APPROACH SLAB REPAIR DETAILS.



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USER NAME = MMICZEK	DESIGNED - MSM	REVISED -
DRAWN - YJP	REVISIONS -	
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PLOT DATE = 01/21/22022	DATE - 12/10/2021	REVISED -

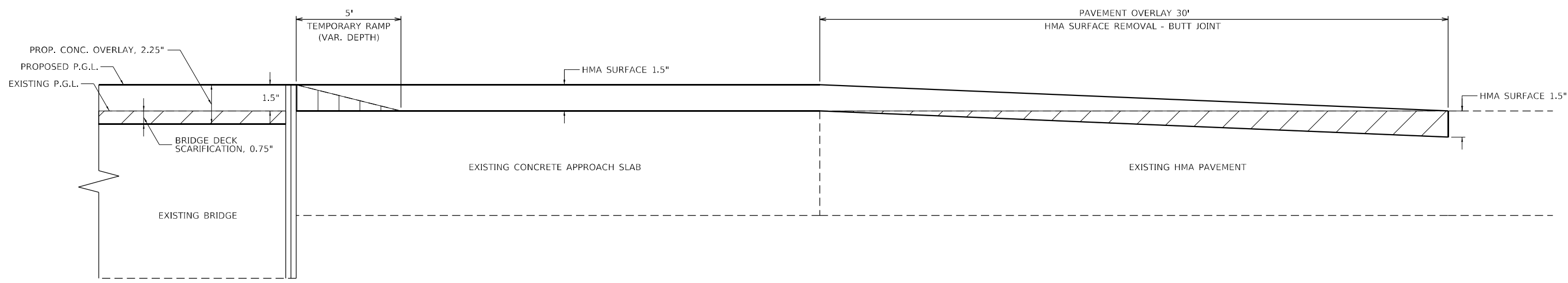
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN  
I-55 AT BLACK ROAD**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 18+00 TO STA. 24+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	19
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				

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**PAVEMENT OVERLAY DETAIL**  
 STA. 19+42.20 TO STA. 19+96.27  
 STA. 22+03.33 TO STA. 22+57.40



USER NAME = MMICZEK	DESIGNED - MSM	REVISED -
	DRAWN - YJP	REVISED -
PLOT SCALE = 5,000' / in.	CHECKED - DP	REVISED -
PLOT DATE = 10/1/2021	DATE - 12/10/2021	REVISED -

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

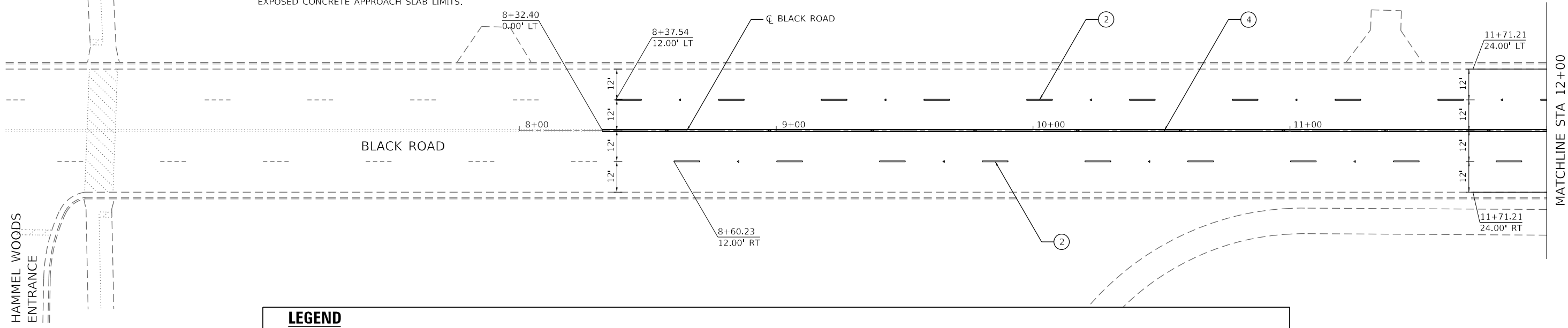
<b>PAVEMENT OVERLAY DETAIL</b> <b>I-55 AT BLACK ROAD</b>	
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	20
CONTRACT NO. 62M50			ILLINOIS FED. AID PROJECT	



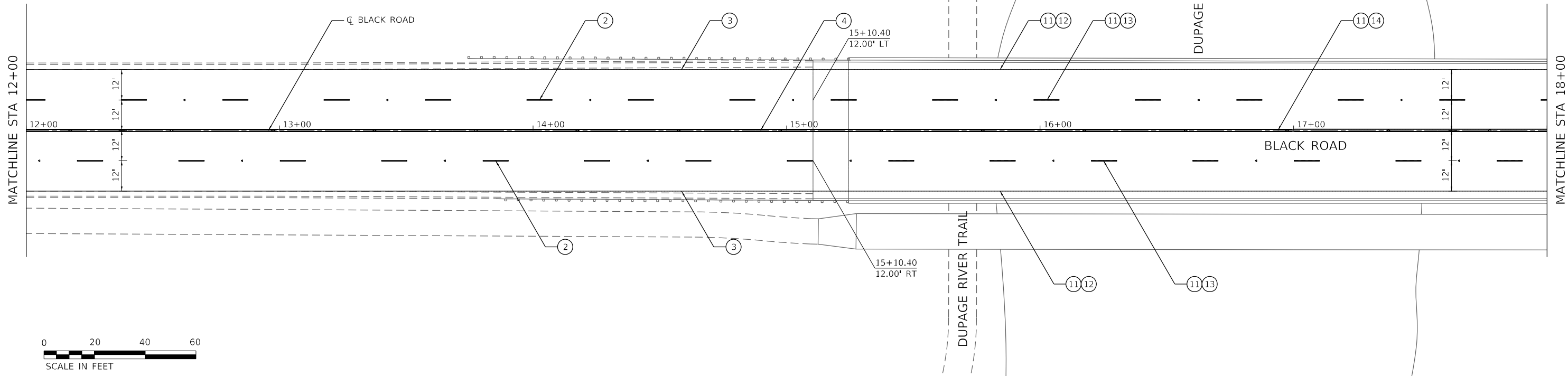
**PAVEMENT MARKING NOTES:**

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO D1 STANDARD TC-13.
2. ALL RRPMS SHALL BE INSTALLED ACCORDING TO D1 STANDARD TC-11.
3. PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B AND GROOVING FOR RECESSED PAVEMENT MARKING SHALL BE USED IN PLACE OF THERMOPLASTIC FOR ALL PAVEMENT MARKINGS WITHIN BRIDGE AND EXPOSED CONCRETE APPROACH SLAB LIMITS.



**LEGEND**

- |   |   |
|---|---|
| ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS                                    | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (SOLID 45° DIAGONAL 6' O.C.)                       |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE (10' DASH-30' SKIP WITH RRPMS 80' O.C.) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (SOLID 45° DIAGONAL 20' O.C.)                     |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE (SOLID)                                 | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24", WHITE (SOLID)  |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW (DOUBLE SOLID 11" WITH RRPMS 80' O.C.) | ⑪ GROOVING FOR RECESSED PAVEMENT MARKING 8"   |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE (SOLID)                                 | ⑫ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7", WHITE (SOLID)                                 |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE (6' SKIP - 2' DASH)                     | ⑬ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7", WHITE (10' DASH-30' SKIP WITH RRPMS 80' O.C.) |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (SOLID 45° DIAGONAL 3' O.C.)           | ⑭ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7", YELLOW (DOUBLE SOLID 11" WITH RRPMS 80' O.C.) |



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

USER NAME = MMICZEK
PLOT SCALE = 40,0000 * / in.
PLOT DATE = 10/1/2021

DESIGNED - MSM	REVISOR -
DRAWN - YJP	REVISIONS -
CHECKED - DP	REVISIONS -
DATE - 12/10/2021	REVISIONS -

DESIGNED - MSM	REVISOR -
DRAWN - YJP	REVISIONS -
CHECKED - DP	REVISIONS -
DATE - 12/10/2021	REVISIONS -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 I-55 AT BLACK ROAD**

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 6+00 TO STA. 18+00

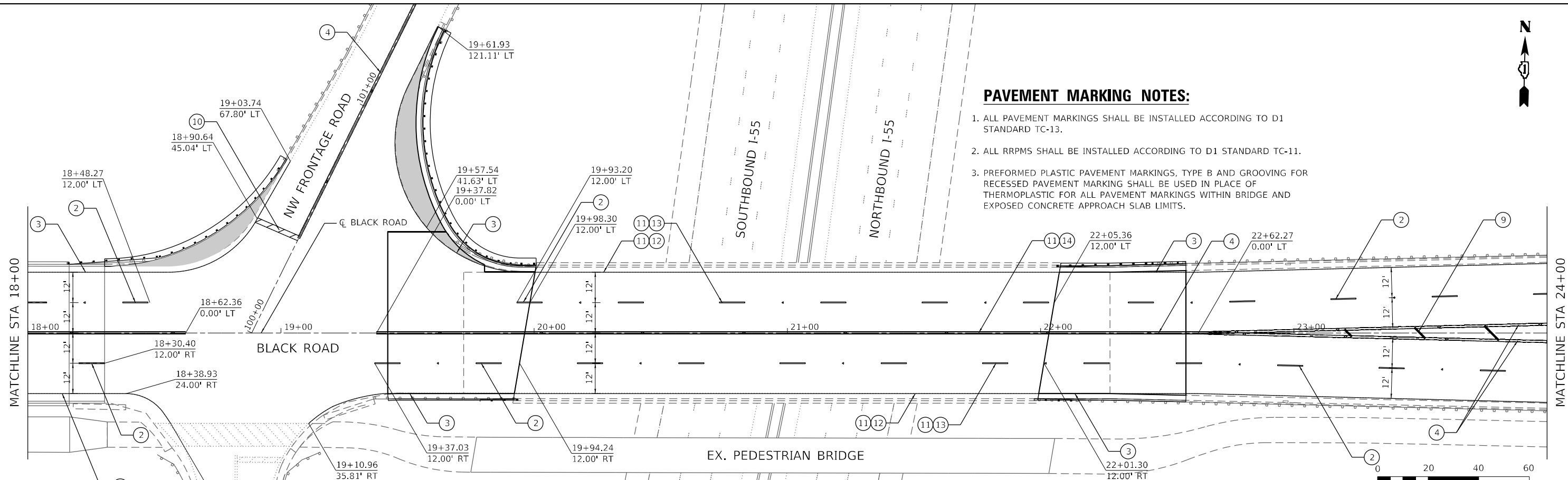
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	21
CONTRACT NO. 62M50				

ILLINOIS FED. AID PROJECT

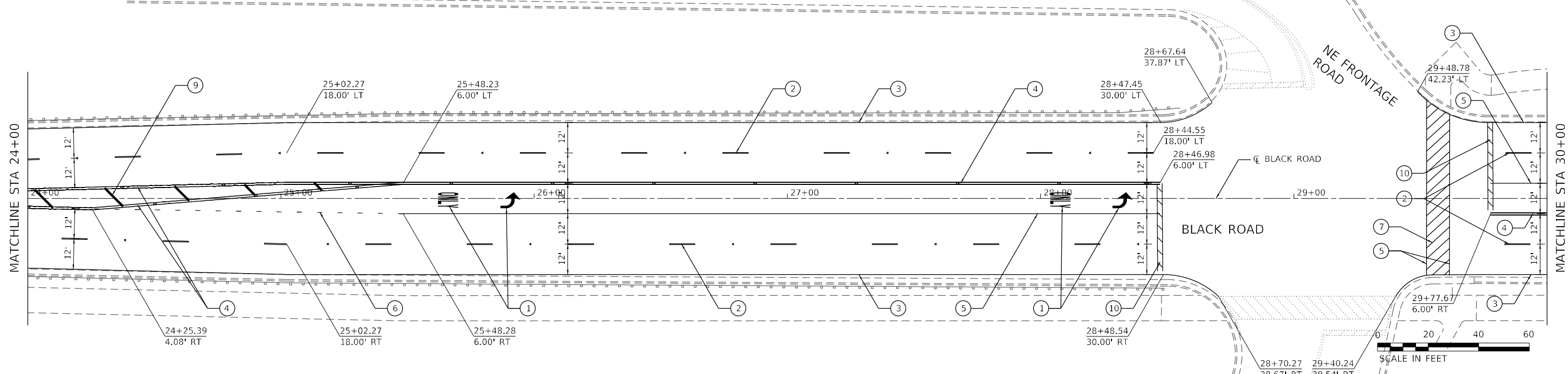


### PAVEMENT MARKING NOTES:

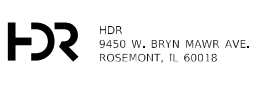
1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO D1 STANDARD TC-13.
2. ALL RRPMS SHALL BE INSTALLED ACCORDING TO D1 STANDARD TC-11.
3. PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B AND GROOVING FOR RECESSED PAVEMENT MARKING SHALL BE USED IN PLACE OF THERMOPLASTIC FOR ALL PAVEMENT MARKINGS WITHIN BRIDGE AND EXPOSED CONCRETE APPROACH SLAB LIMITS.



LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
②	THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE (10' DASH-30' SKIP WITH RRPMS 80' O.C.)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE (SOLID)
④	THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW (DOUBLE SOLID 11" WITH RRPMS 80' O.C.)
⑤	THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE (SOLID)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE (6' SKIP - 2' DASH)
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (SOLID 45° DIAGONAL 3' O.C.)
⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (SOLID 45° DIAGONAL 6' O.C.)
⑨	THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (SOLID 45° DIAGONAL 20' O.C.)
⑩	THERMOPLASTIC PAVEMENT MARKING - LINE 24", WHITE (SOLID)
⑪	GROOVING FOR RECESSED PAVEMENT MARKING 8"
⑫	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7", WHITE (SOLID)
⑬	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7", WHITE (10' DASH-30' SKIP WITH RRPMS 80' O.C.)
⑭	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7", YELLOW (DOUBLE SOLID 11" WITH RRPMS 80' O.C.)



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USER NAME = MMICZEK	DESIGNED - MSM	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN - YJP	REVISED -
PLOT DATE = 10/1/2021	CHECKED - DP	REVISED -
	DATE - 12/10/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

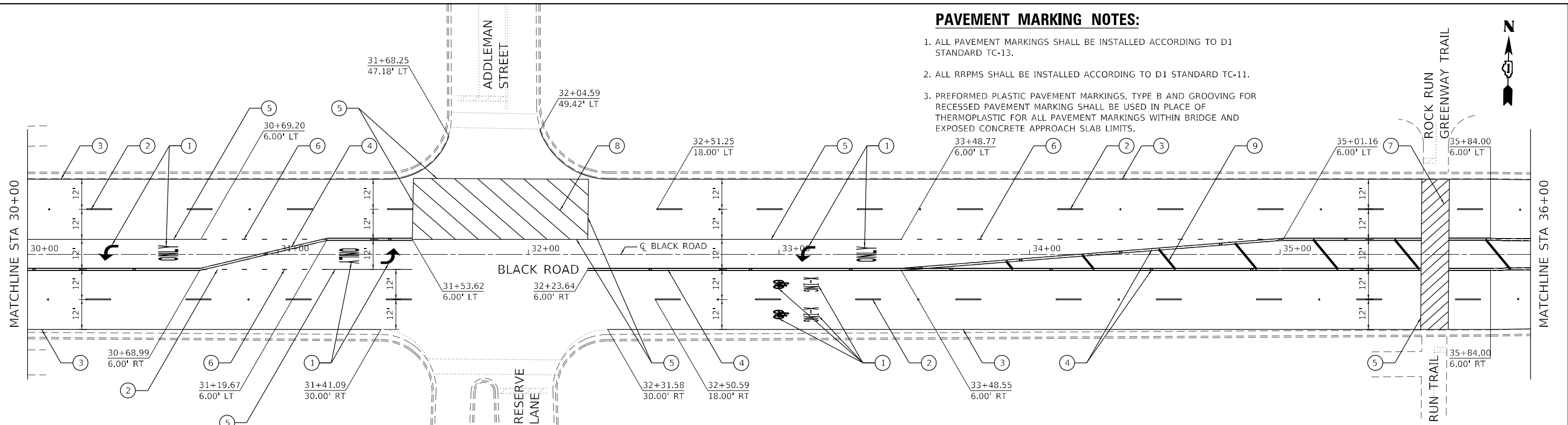
**PAVEMENT MARKING PLAN  
I-55 AT BLACK ROAD**

SCALE: 1"=20'    SHEET 2 OF 3 SHEETS    STA. 18+00 TO STA. 30+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	22
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				

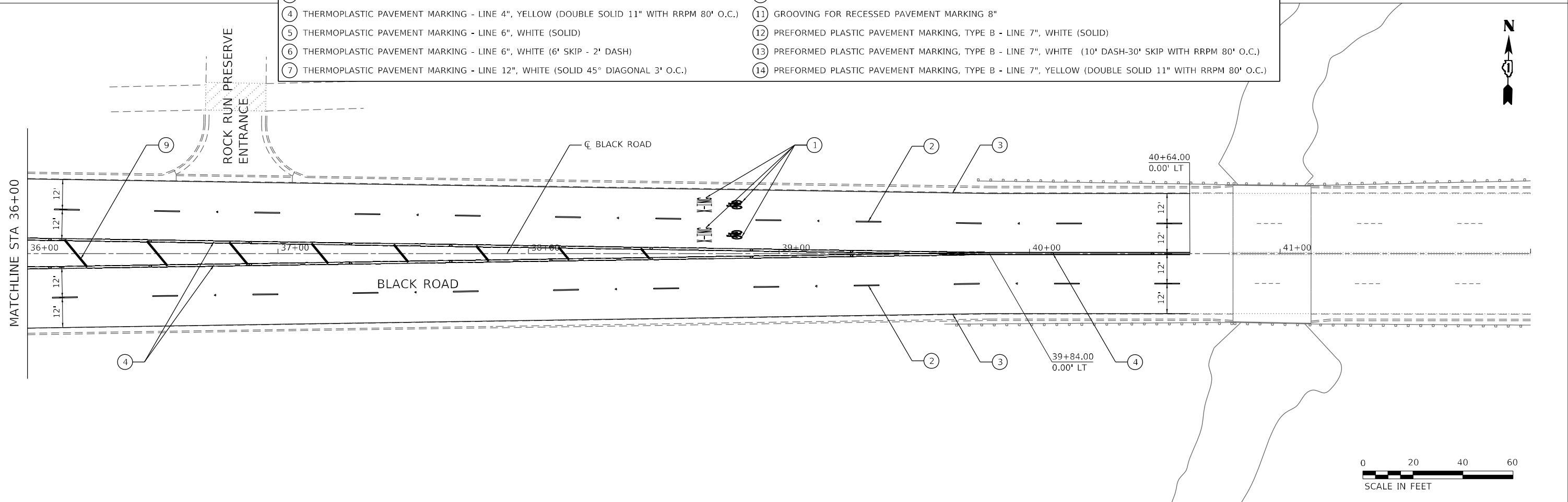
**PAVEMENT MARKING NOTES:**

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO D1 STANDARD TC-13.
2. ALL RRPMS SHALL BE INSTALLED ACCORDING TO D1 STANDARD TC-11.
3. PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B AND GROOVING FOR RECESSED PAVEMENT MARKING SHALL BE USED IN PLACE OF THERMOPLASTIC FOR ALL PAVEMENT MARKINGS WITHIN BRIDGE AND EXPOSED CONCRETE APPROACH SLAB LIMITS.



**LEGEND**

① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (SOLID 45° DIAGONAL 6' O.C.)
② THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE (10' DASH-30' SKIP WITH RRPMS 80' O.C.)	⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (SOLID 45° DIAGONAL 20' O.C.)
③ THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE (SOLID)	⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24", WHITE (SOLID)
④ THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW (DOUBLE SOLID 11" WITH RRPMS 80' O.C.)	⑪ GROOVING FOR RECESSED PAVEMENT MARKING 8"
⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE (SOLID)	⑫ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7", WHITE (SOLID)
⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE (6' SKIP - 2' DASH)	⑬ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7", WHITE (10' DASH-30' SKIP WITH RRPMS 80' O.C.)
⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (SOLID 45° DIAGONAL 3' O.C.)	⑭ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7", YELLOW (DOUBLE SOLID 11" WITH RRPMS 80' O.C.)



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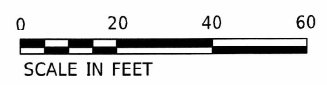
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DRAWN - YJP	REVISIONS -	
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PLOT DATE = 10/1/2021	DATE - 12/10/2021	REVISIONS -








**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

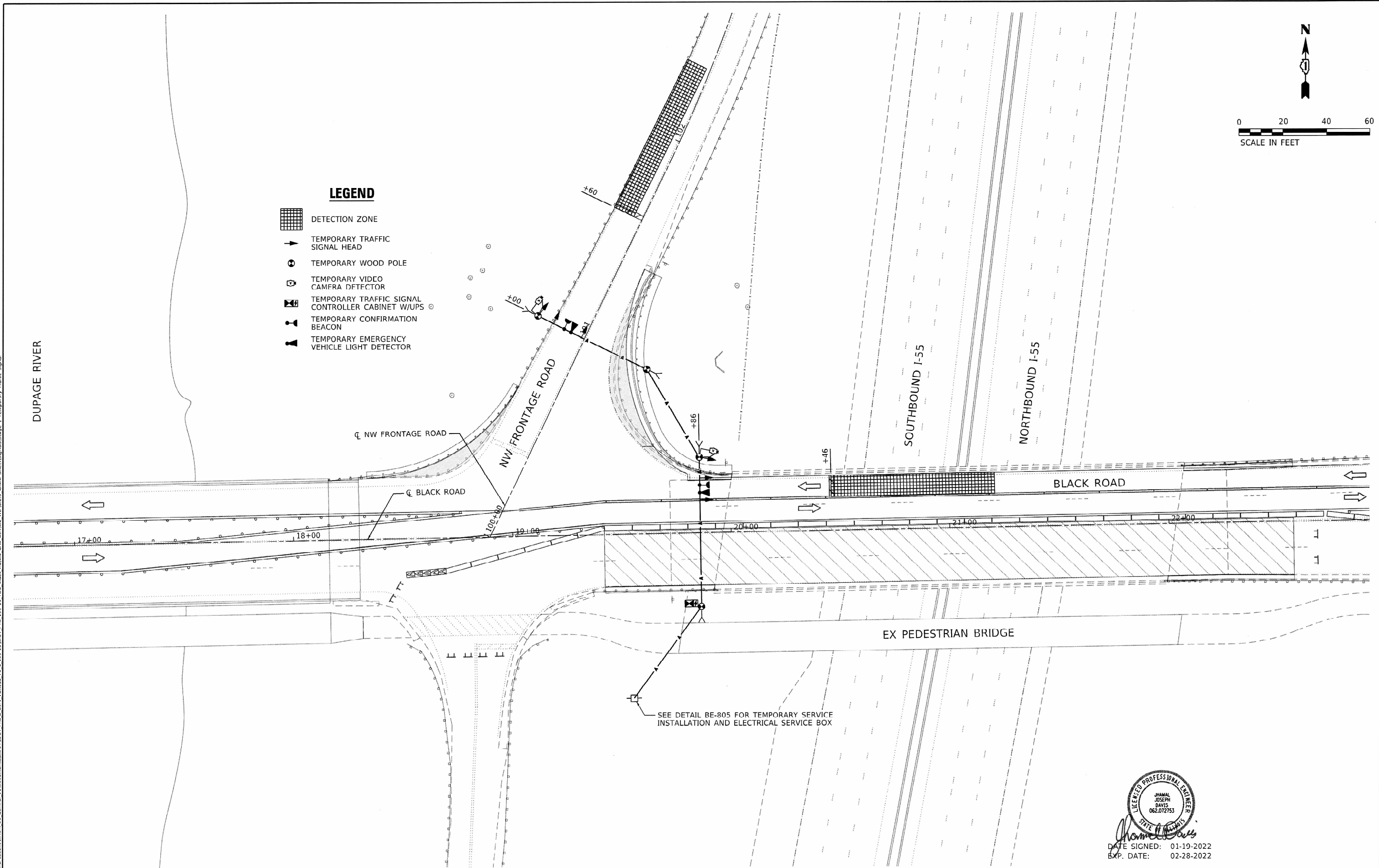
**PAVEMENT MARKING PLAN  
I-55 AT BLACK ROAD**

SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. 30+00 TO STA. 42+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	23
CONTRACT NO. 62M50			ILLINOIS FED. AID PROJECT	



- LEGEND**
-  DETECTION ZONE
  -  TEMPORARY TRAFFIC SIGNAL HEAD
  -  TEMPORARY WOOD POLE
  -  TEMPORARY VIDEO CAMERA DETECTOR
  -  TEMPORARY TRAFFIC SIGNAL CONTROLLER CABINET W/UPS
  -  TEMPORARY CONFIRMATION BEACON
  -  TEMPORARY EMERGENCY VEHICLE LIGHT DETECTOR



MODEL: Default  
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DATE SIGNED: 01-19-2022  
 EXP. DATE: 02-28-2022



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






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

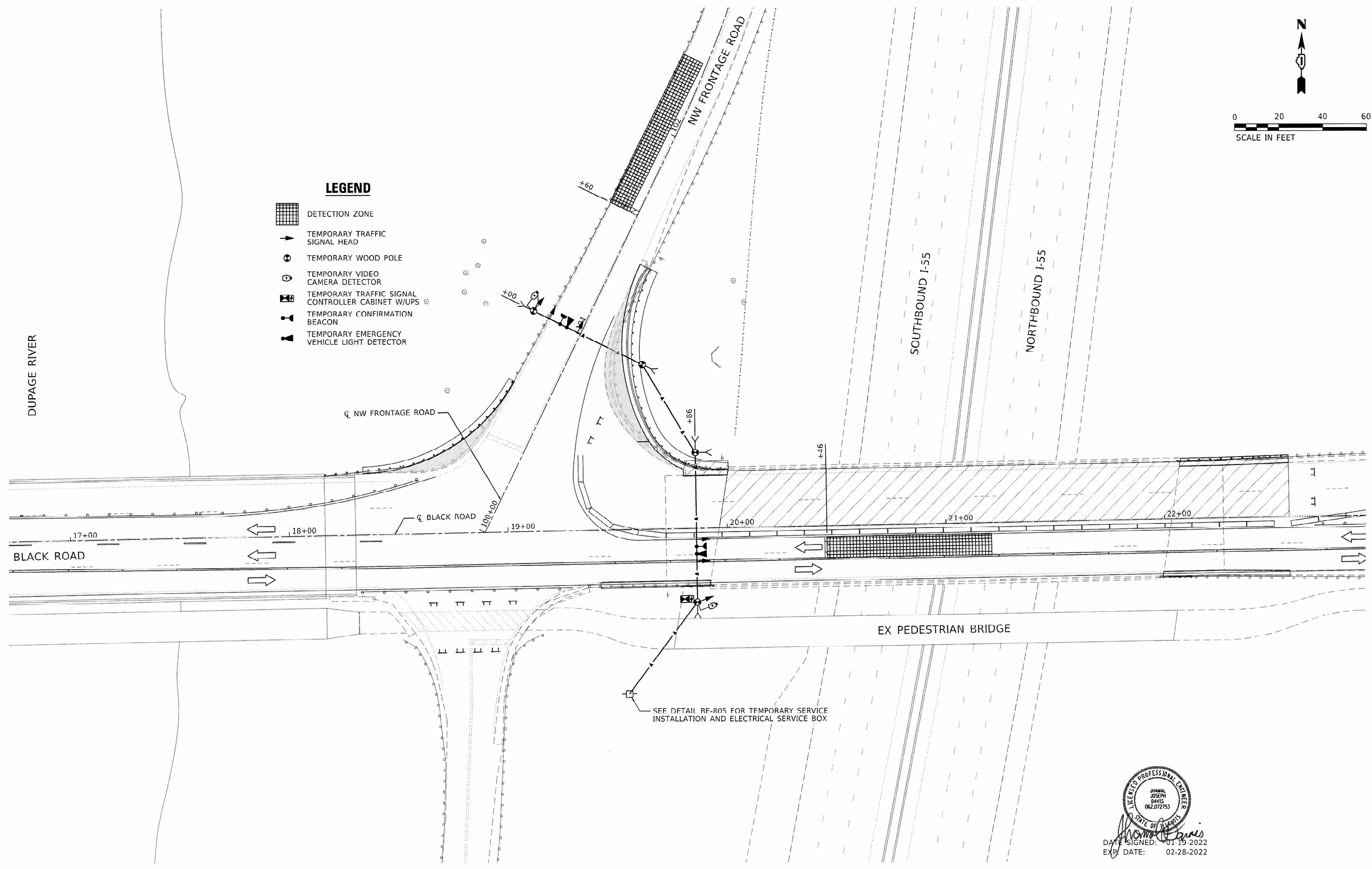
<b>TEMPORARY TRAFFIC SIGNALS - STAGE 1</b> <b>I-55 AT BLACK ROAD</b>	
SCALE: 1"=20'	SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	23A
CONTRACT NO. 62M50			ILLINOIS FED. AID PROJECT NHPP-JUD8(263)	



### LEGEND

-  DETECTION ZONE
-  TEMPORARY TRAFFIC SIGNAL HEAD
-  TEMPORARY WOOD POLE
-  TEMPORARY VIDEO CAMERA DETECTOR
-  TEMPORARY TRAFFIC SIGNAL CONTROLLER CABINET W/UPS
-  TEMPORARY CONFIRMATION BEACON
-  TEMPORARY EMERGENCY VEHICLE LIGHT DETECTOR



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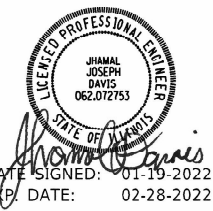


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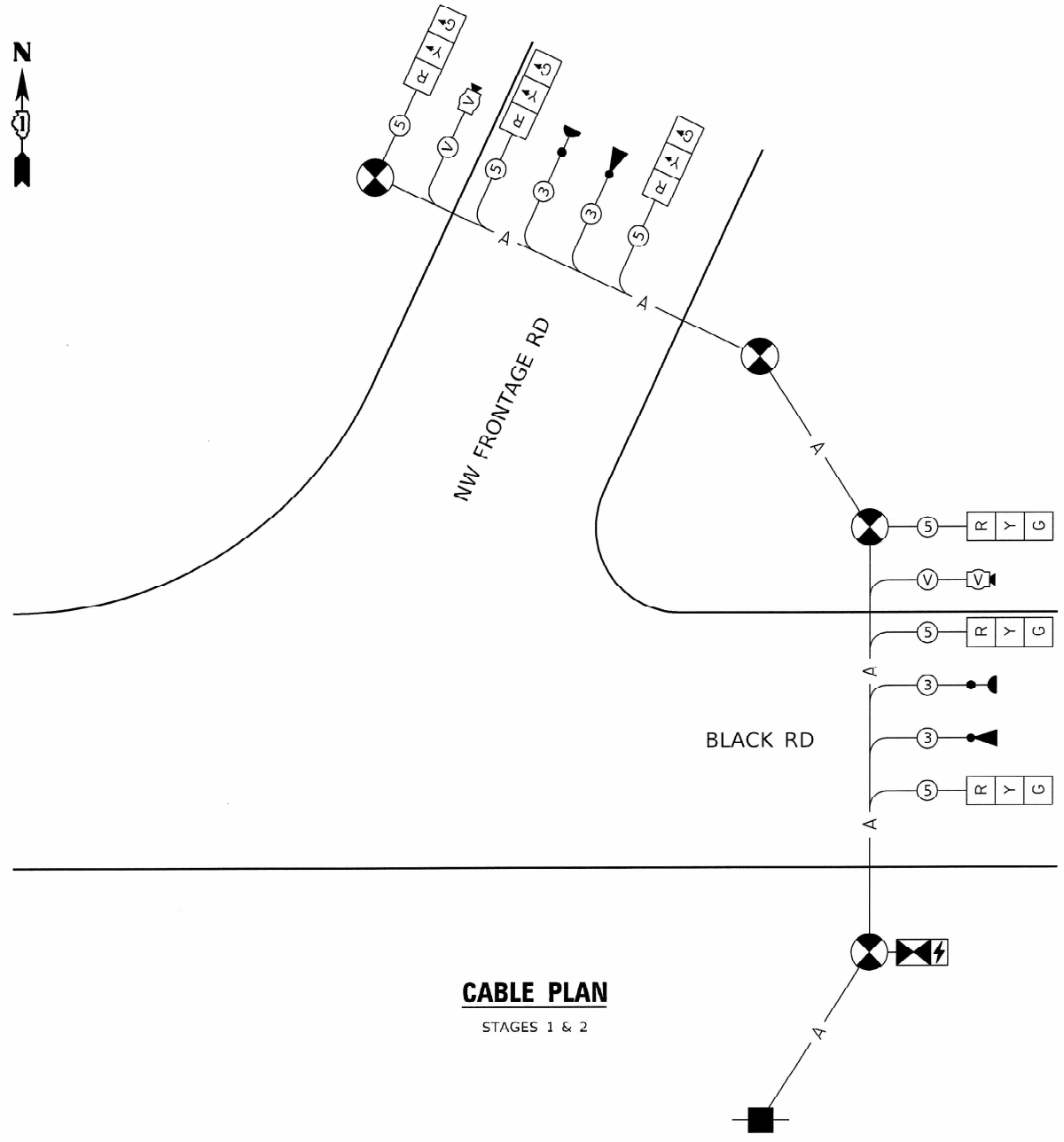
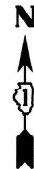
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNALS - STAGE 2  
I-55 AT BLACK ROAD**

SCALE: 1"=20'      SHEET 2 OF 3 SHEETS      STA.      TO STA.



F.A.I. RTE. 55	SECTION 2020-163-BR	COUNTY WILL	TOTAL SHEETS 65	SHEET NO. 23B
CONTRACT NO. 62M50				ILLINOIS FED. AID PROJECT NHP/AUD8(263)

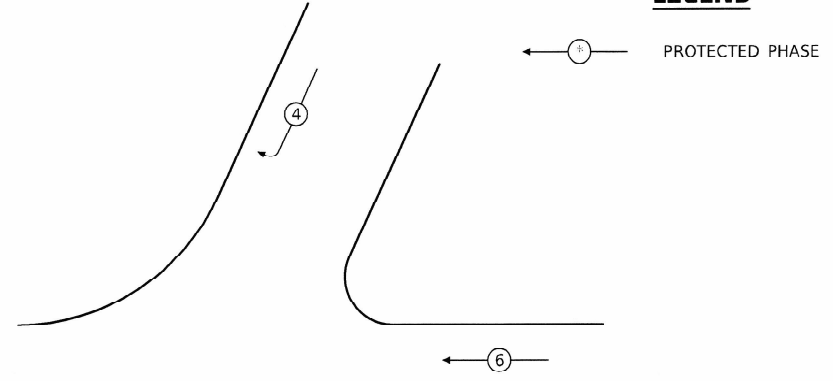


**CABLE PLAN**  
STAGES 1 & 2

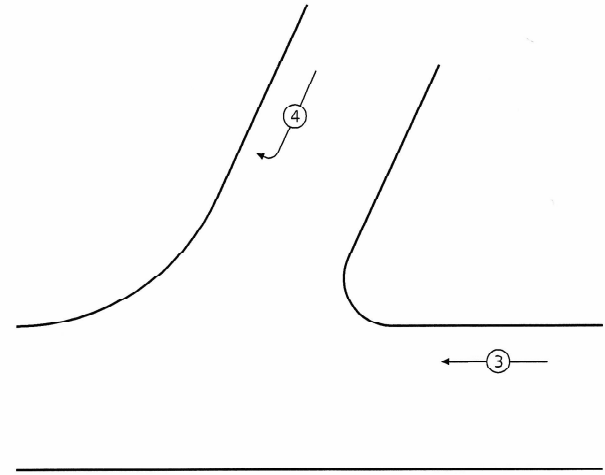
**LEGEND**

- TRAFFIC SIGNAL HEAD
- VIDEO DETECTOR
- CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- NUMBER OF CONDUCTORS OR VIDEO DETECTOR CABLE
- CONTROLLER AND CABINET WITH UNINTERRUPTIBLE POWER SUPPLY
- SERVICE INSTALLATION
- TEMPORARY WOOD POLE

**LEGEND**



**CONTROLLER SEQUENCE**



**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	Nº LAMPS	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	0.50	33
(YFL LOW)	6	20	0.05	6
(GRFFN)	6	12	0.45	32.4
CONTROLLER	1	100	1.00	100
VIDFO SYSTEM	1	150	1.00	150
UPS	1	25	1.00	25
ILLUM. SIGN			0.50	
FLASHER			0.50	
TOTAL =				346.4

ENERGY COSTS TO:  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: JOE HURLEY  
 PHONE: (847) 816-5503

**NOTES**

- CONTACT WITH THE ELECTRIC UTILITY SHALL BE INITIATED BEFORE THE PRECONSTRUCTION MEETING, AND DOCUMENTATION OF THAT CONTACT 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.
- 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.
- 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.
- 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.
- ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.
- ANY TREE TRIMMING NECESSARY TO SET UP THE TEMPORARY TRAFFIC SIGNALS WILL BE COVERED UNDER THE SPECIAL PROVISION "PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE".

DATE SIGNED: 01-19-2022  
 EXP. DATE: 02-28-2022



USER NAME =	dwojck
DESIGNED -	DW
REVISIONS -	
DRAWN -	DW
REVISIONS -	
PLOT SCALE =	100.0000' / in.
CHECKED -	JJD
REVISIONS -	
PLOT DATE =	1/19/2022
DATE -	2022-01-07
REVISIONS -	

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

**TEMPORARY TRAFFIC SIGNALS - CABLE PLAN**  
**I-55 AT BLACK ROAD**

SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	23C
ILLINOIS FED. AID PROJECT WHPF-UUD8(263)			CONTRACT NO. 62M50	

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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'-0<sup>3</sup>/<sub>4</sub>" Bk. to Bk. of abutments.

Traffic to be maintained utilizing stage construction.

No salvage.

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges

**LOADING HS20-44**

No allowance for future wearing surface

**EXISTING DESIGN STRESSES**

**1959 CONSTRUCTION**

$f_c = 1,400$  psi (Superstructure)  
 $f_c = 800$  psi (Substructure)  
 $f_s = 20,000$  psi (Reinforcement)  
 $f_s = 18,000$  psi (Structural Steel)

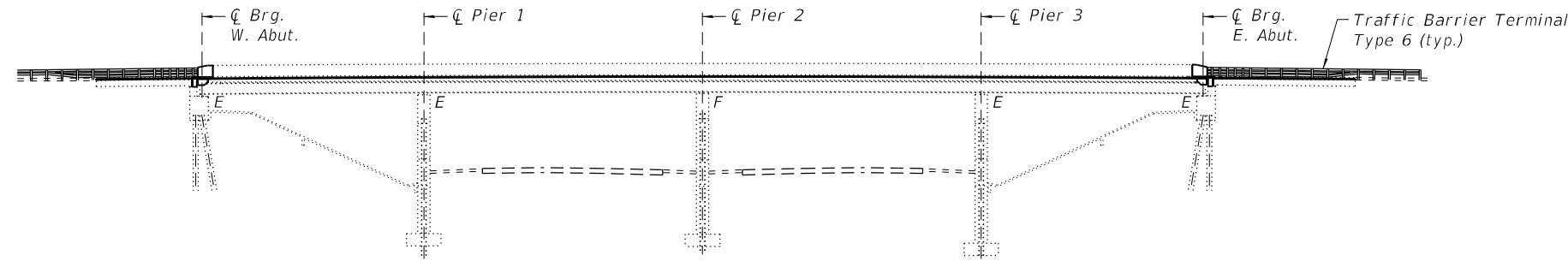
**1986 CONSTRUCTION**

$f_c = 1,400$  psi  
 $f_s = 24,000$  psi (Reinforcement)  
 $f_s = 20,000$  psi (Structural Steel)

**PROPOSED DESIGN STRESSES**

**FIELD UNITS:**

$f'_c = 4,000$  psi (Superstructure)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 36,000$  psi (Structural Steel)



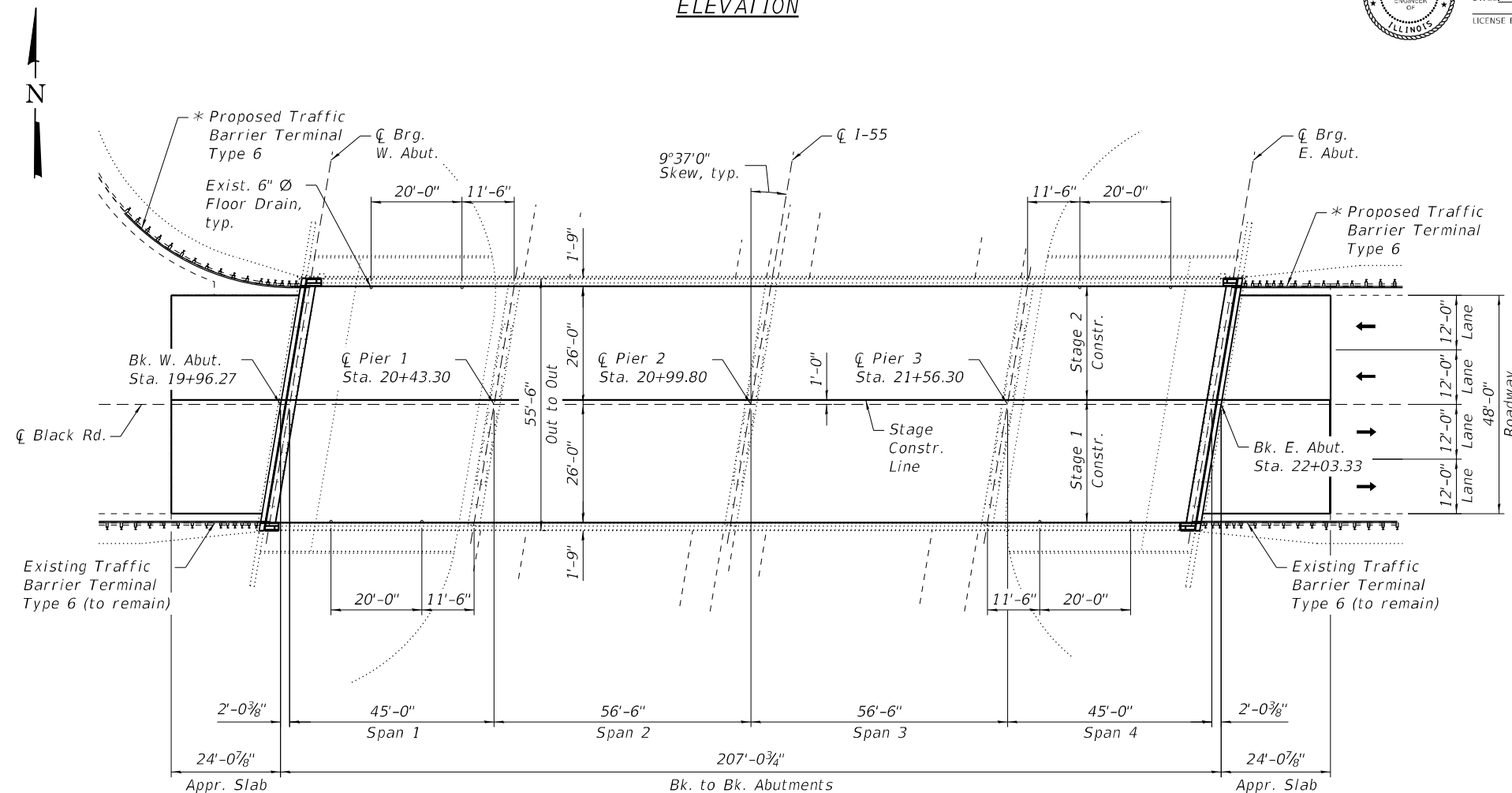
**ELEVATION**



BY: *BHS* DATE: 12/22/2021  
 HDR, INC. LICENSED STRUCTURAL ENGINEER OF ILLINOIS  
 DWGS: BRIDGE SHEETS 1 TO 21 (OF 21)  
 LICENSE EXPIRES NOV. 30, 2022

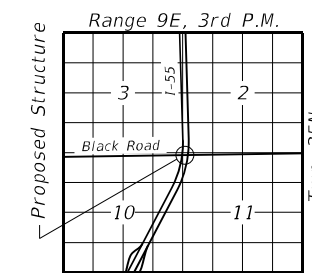
**SCOPE OF WORK**

1. Remove and replace existing expansion joints at both abutments.
2. Perform partial and full depth repairs to bridge deck and approach slabs.
3. Scarify bridge deck  $\frac{3}{4}$ " and install  $2 \frac{1}{4}$ " Latex Concrete Overlay.
4. Install  $1 \frac{1}{2}$ " Hot-Mix Asphalt (HMA) on the approaches. Refer to Roadway Plans for quantities and details.
5. Install steel plates on the north and south fascia beam webs at the West Abutment.
6. Install a new side retainer angle at the north fascia beam at the West Abutment.
7. Perform Structural Repair of Concrete at all substructure units.
8. Apply Protective Coat on the top surface of the deck overlay, the top and inside faces of the existing parapets and curbs, and the piers.



**PLAN**

\* Attach Proposed Traffic Barrier Terminal to bridge parapet using anchor bolts secured with chemical adhesive per Highway Standard 631031 (Sheet 2 of 4).



**LOCATION SKETCH**

**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**

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USER NAME =	DESIGNED - BHS	REVISED -
CHECKED - SA	CHECKED - SA	REVISED -
PLOT SCALE =	DRAWN - AMN	REVISED -
PLOT DATE = 12/22/2021	CHECKED - BHS	REVISED -

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

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 099-0209**

SHEET 1 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	24
			CONTRACT NO. 62M50	

ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

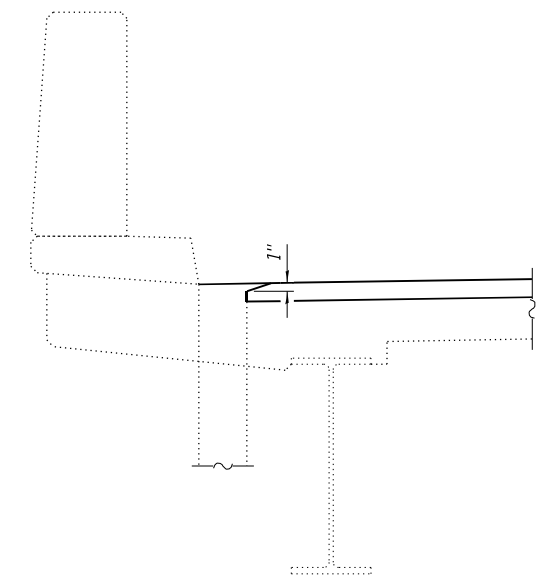
- Fasteners shall be high strength bolts. Bolts 3/4"Ø, open holes 13/16"Ø, unless otherwise noted.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Prior to pouring the new concrete deck for expansion joint reconstruction 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 dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 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.
- 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.
- 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.
- The Contractor shall take appropriate measures to assure the Protective Coat is not applied to the floor drains.
- 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.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 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."
- All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".

**INDEX OF SHEETS**

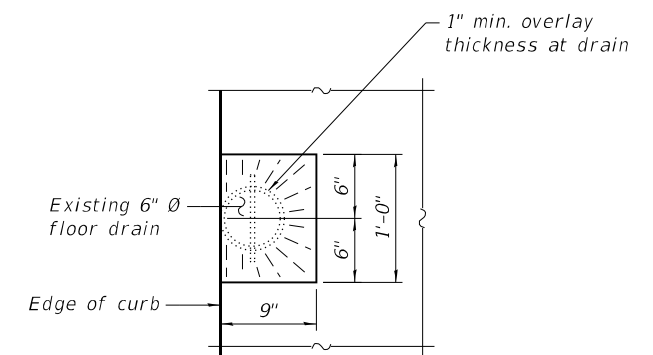
- General Plan & Elevation
- General Notes, Index of Sheets & Total Bill of Materials
- Stage Construction
- Temporary Concrete Barrier for Stage Construction
- Bridge Deck Repairs
- Bridge Deck Repairs
- Joint Reconstruction Details
- Joint Reconstruction Details
- Approach Slab Repairs
- Preformed Joint Strip Seal
- Bar Splicer Assembly Details
- Structural Steel Repairs
- Abutment Repairs
- Pier 1 Repairs
- Pier 2 Repairs
- Pier 3 Repairs
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)

**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



**SECTION AT DRAINS**



**OVERLAY TREATMENT AT DRAINS**  
(8 drains total)

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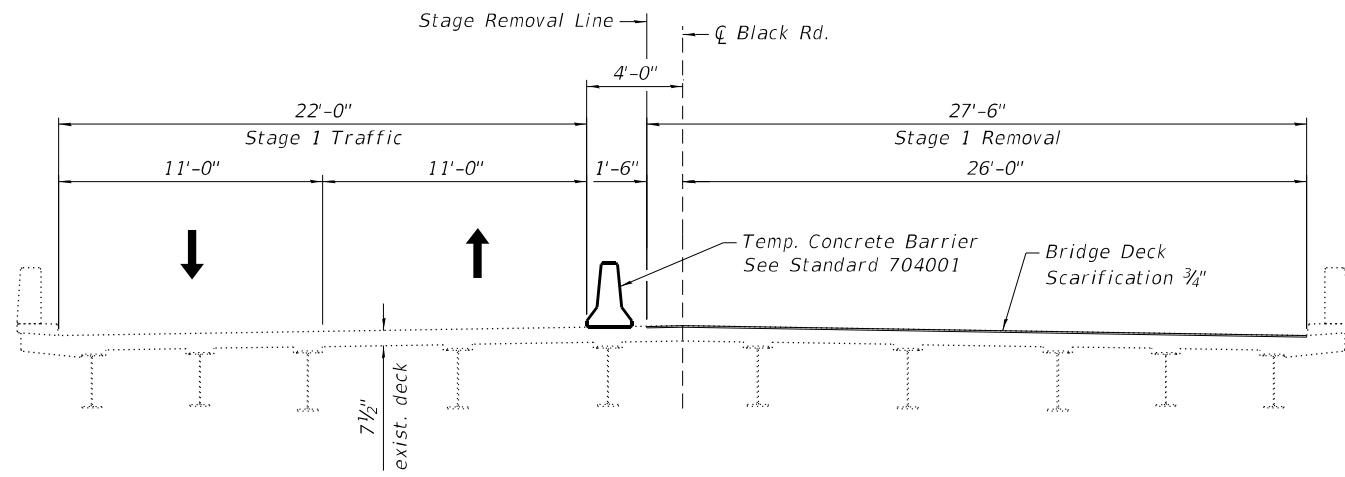
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

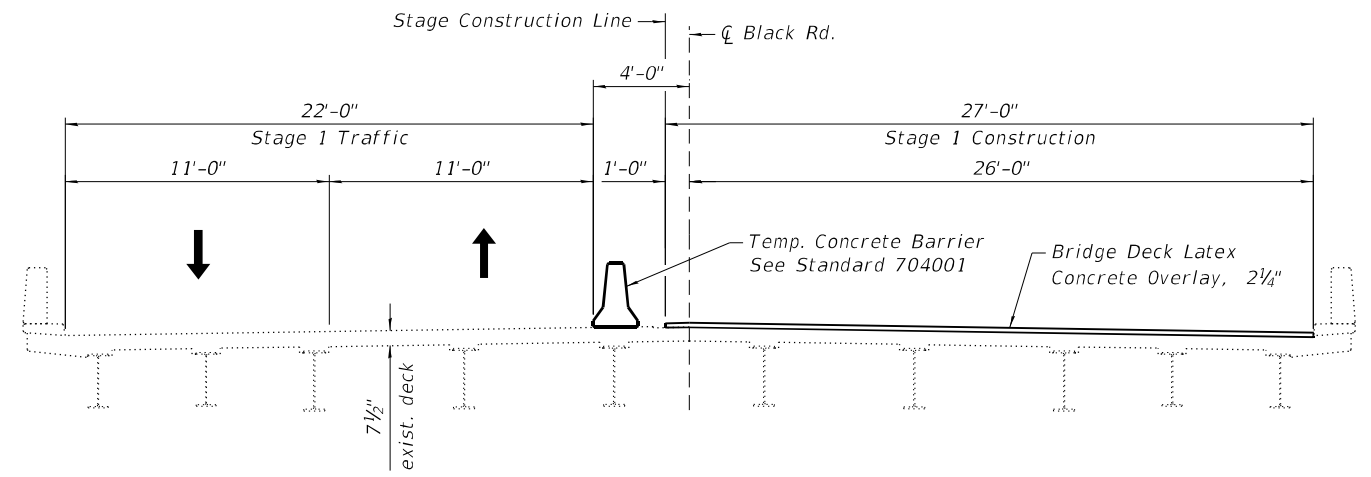
SHEET 2 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M50	

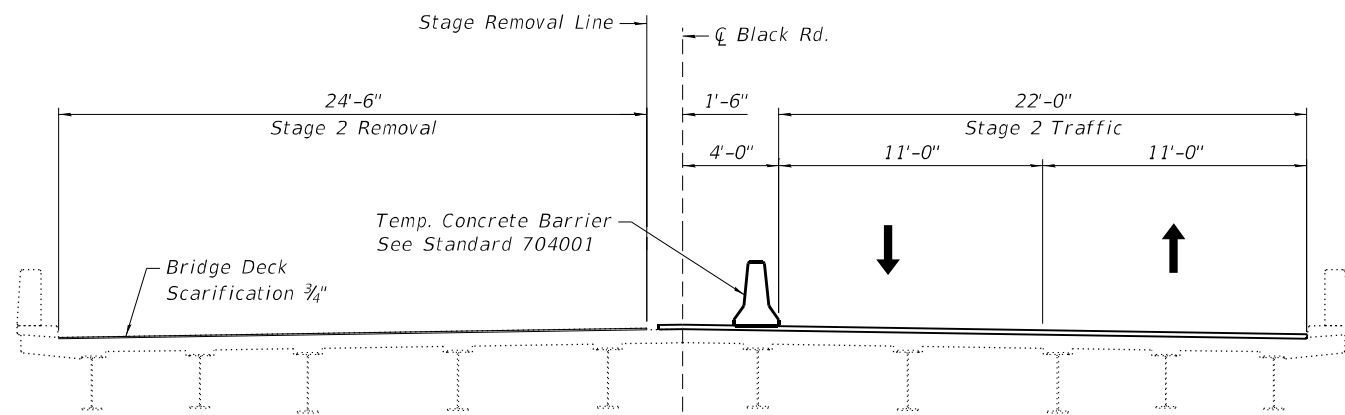
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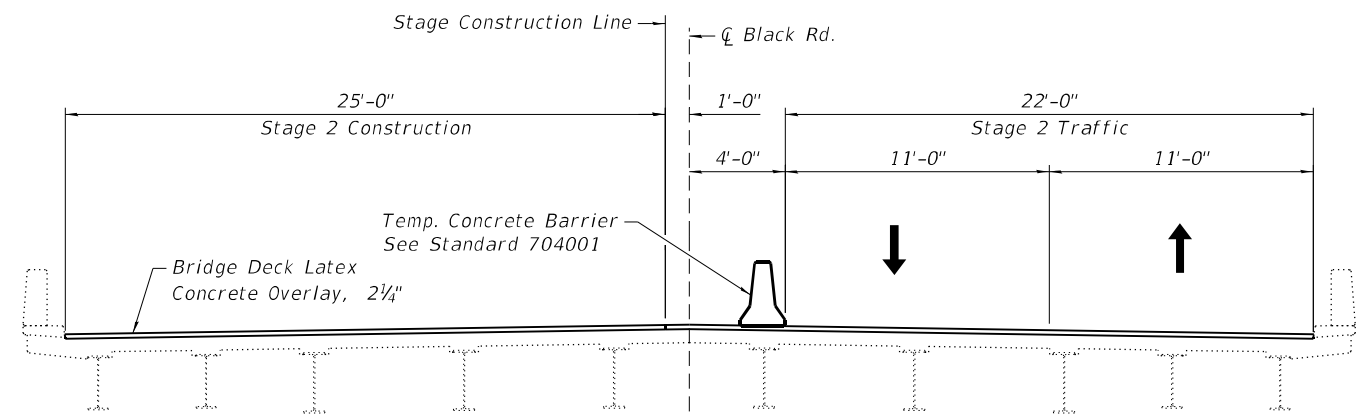
**STAGE 1 REMOVAL**  
 (Looking East)



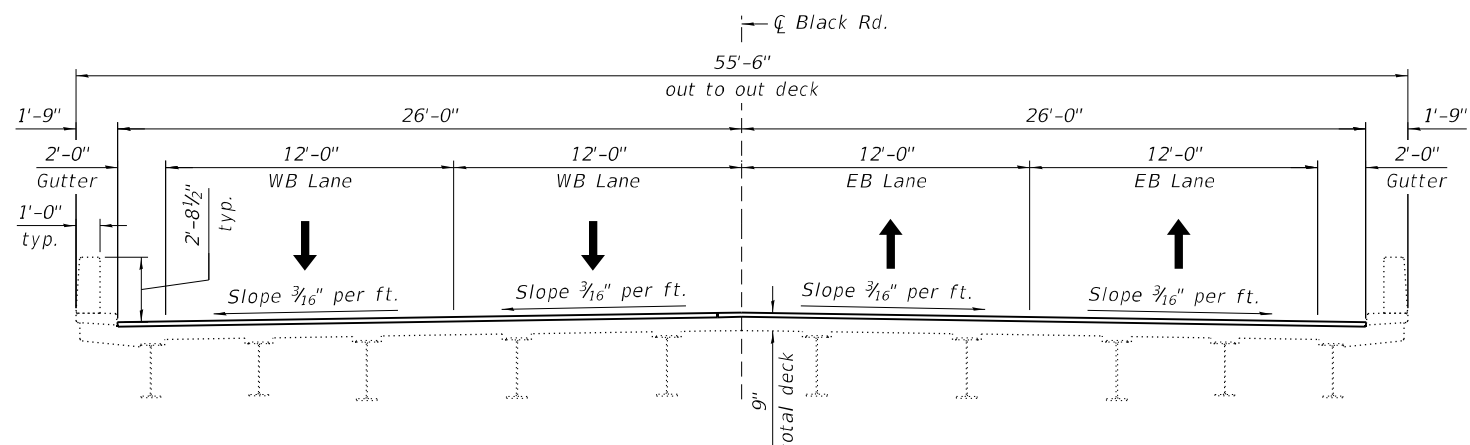
**STAGE 1 CONSTRUCTION**  
 (Looking East)



**STAGE 2 REMOVAL**  
 (Looking East)



**STAGE 2 CONSTRUCTION**  
 (Looking East)



**FINAL CROSS-SECTION**  
 (Looking East)

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION  
 STRUCTURE NO. 099-0209**

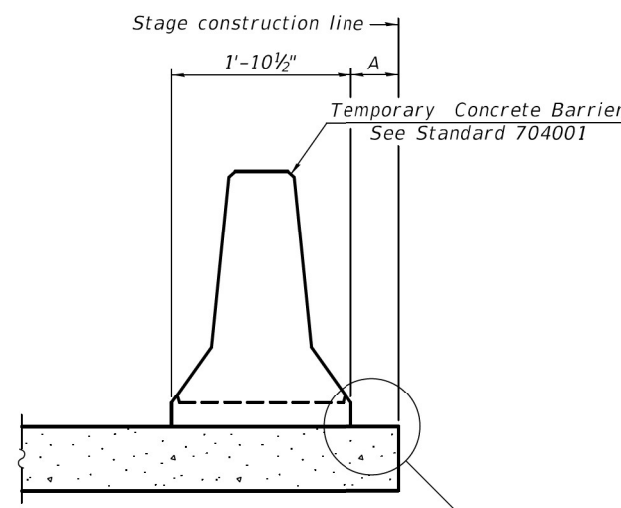
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PLOT SCALE =	CHECKED - SA	REVISED -
PLOT DATE = 12/22/2021	DRAWN - AMN	REVISED -
	CHECKED - BHS	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	26
CONTRACT NO. 62M50				

SHEET 3 OF 21 SHEETS

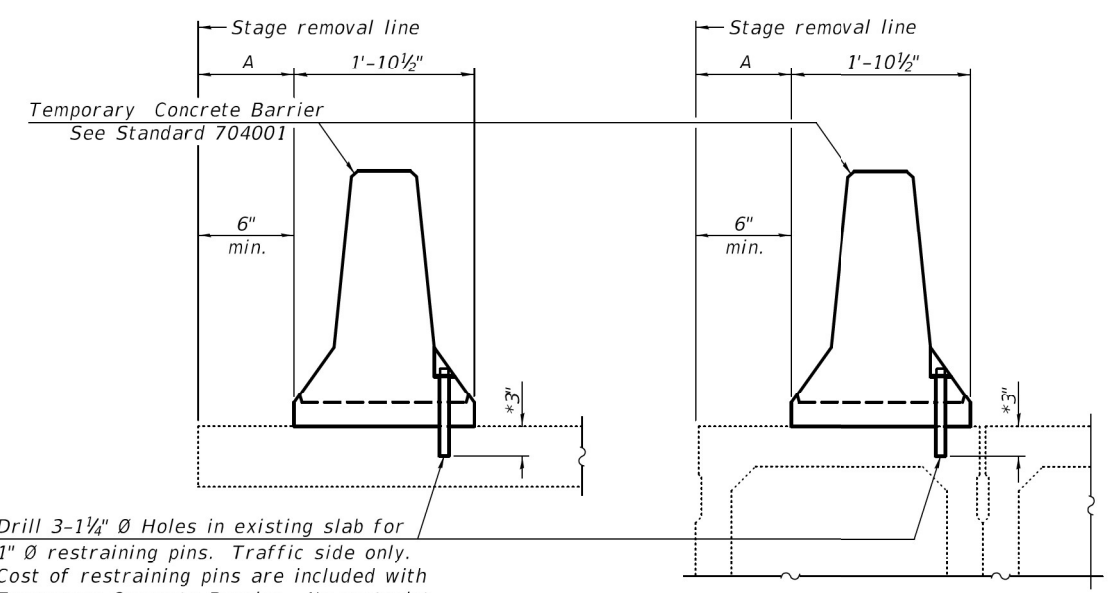
ILLINOIS FED. AID PROJECT

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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

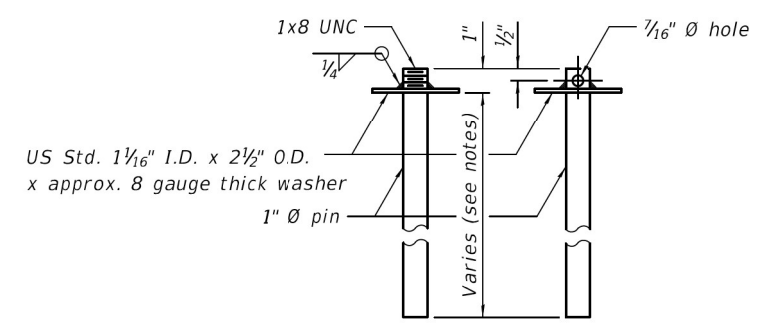
**NEW SLAB OR NEW DECK BEAM**



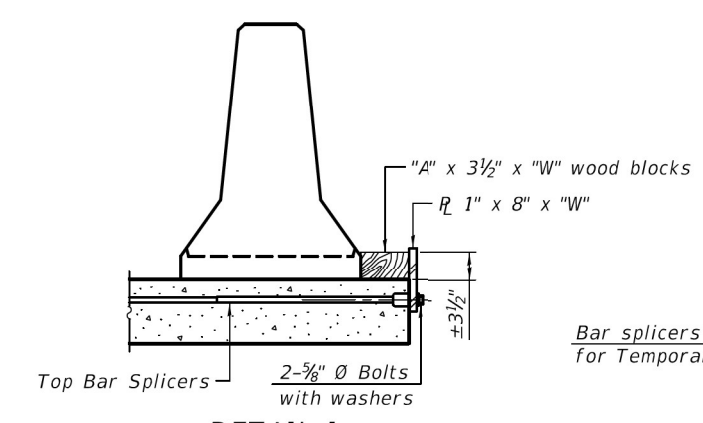
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**      **EXISTING DECK BEAM**

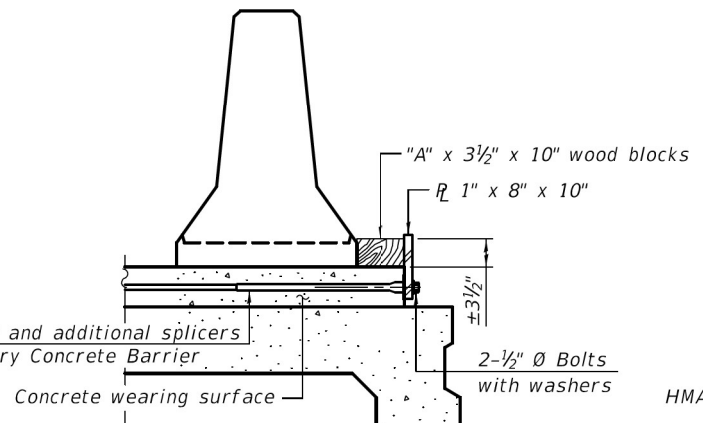
**SECTIONS THRU SLAB OR DECK BEAM**



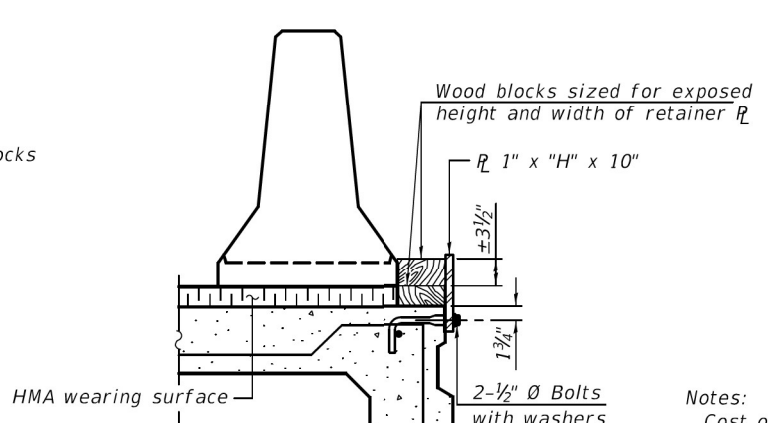
**RESTRAINING PIN**



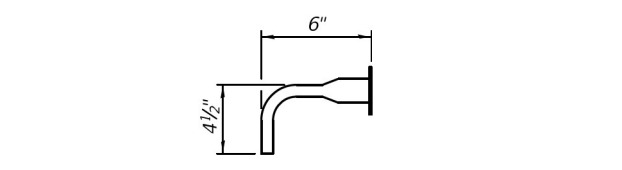
**DETAIL I**



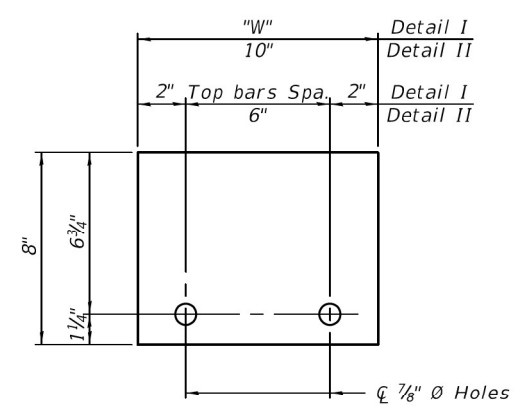
**DETAIL II**



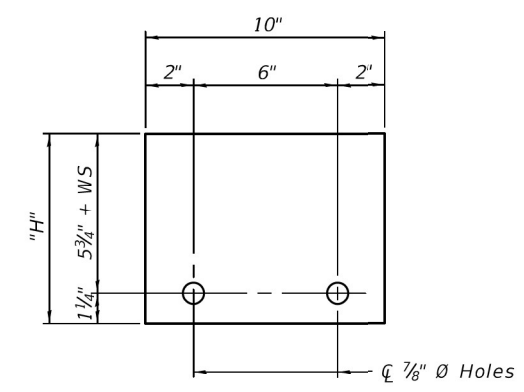
**DETAIL III**



**BAR SPLICER FOR #4 BAR - DETAIL III**



**STEEL RETAINER R 1" x 8" x "W"**  
(Detail I and II)



**STEEL RETAINER R 1" x "H" x 10"**  
(Detail III)

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate C of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

**Detail I** - Installation for a new bridge deck or bridge slab.  
**Detail II** - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
**Detail III** - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440

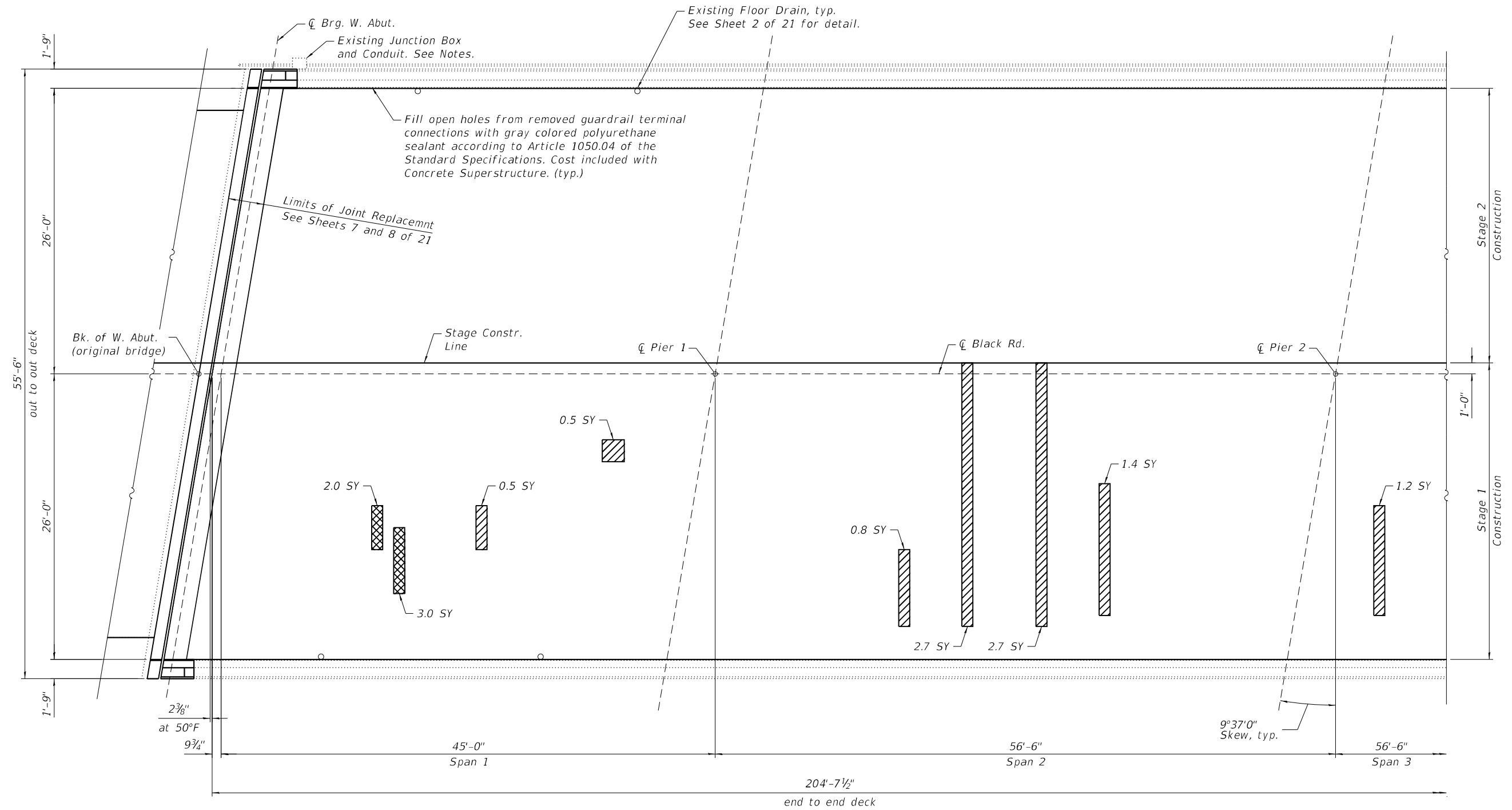
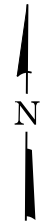
R-27      10-12-2021

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**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION**  
**STRUCTURE NO. 099-0209**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	27
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				



**Notes:**  
 Deck Slab Repair (Partial) locations and quantities are shown for information only and will not be measured for payment but shall be included in the cost of Bridge Deck Latex Concrete Overlay. See special provision for Bridge Deck Latex Concrete Overlay.  
 The Contractor is advised that a junction box and conduit are attached to the outside face of the north parapet. The Contractor shall take proper precautions to protect the utility from damage during concrete removal and replacement, and remount the junction box and conduit according to the as-built condition. Cost included with Concrete Superstructure. Any damage to the utility caused by the Contractor shall be repaired at the Contractor's expense to the satisfactory of the utility owner.

**DECK REPAIR PARTIAL PLAN**

**BILL OF MATERIAL**

Item	Unit	Quantity
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	3

**LEGEND**

- Deck Slab Repair (Partial)
- Deck Slab Repair (Full Depth)

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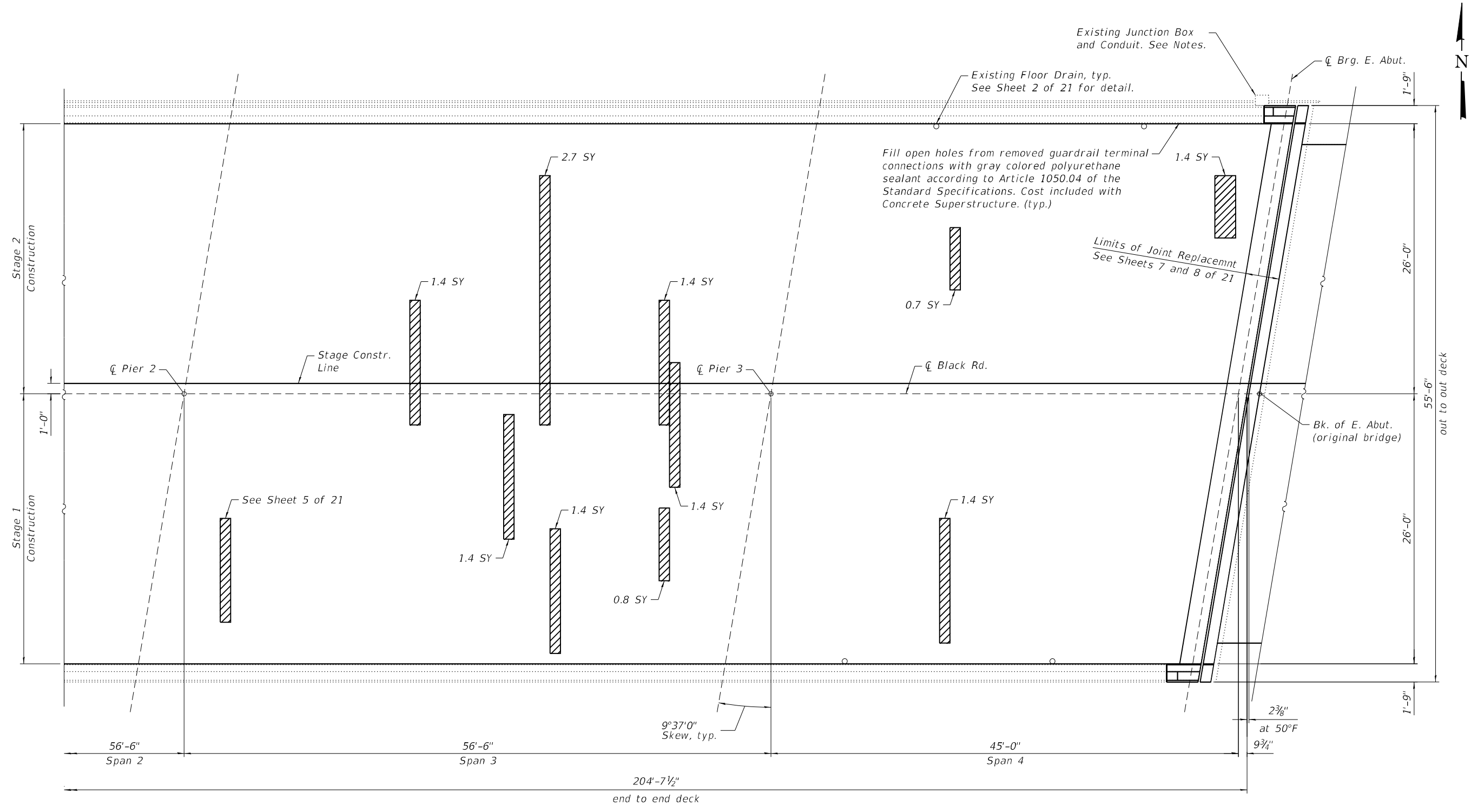
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK REPAIRS  
 STRUCTURE NO. 099-0209**

SHEET 5 OF 21 SHEETS

F.A.I. RTE. 55	SECTION 2020-163-BR	COUNTY WILL	TOTAL SHEETS 65	SHEET NO. 28
CONTRACT NO. 62M50			ILLINOIS FED. AID PROJECT	

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**DECK REPAIR PARTIAL PLAN**

**LEGEND**

	Deck Slab Repair (Partial)
	Deck Slab Repair (Full Depth)

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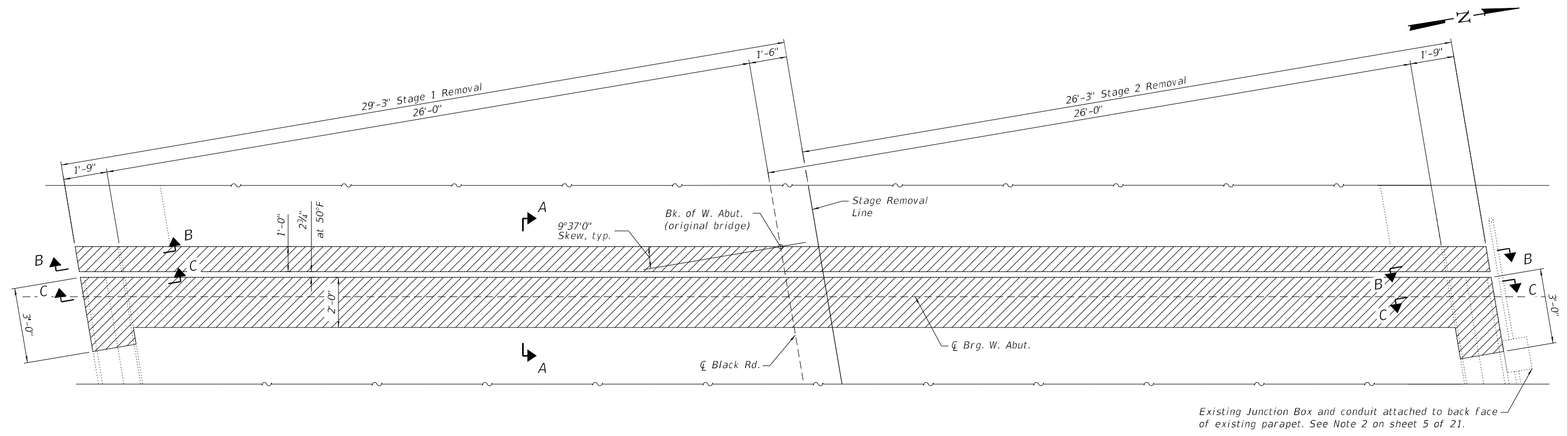
**BRIDGE DECK REPAIRS  
 STRUCTURE NO. 099-0209**

SHEET 6 OF 21 SHEETS

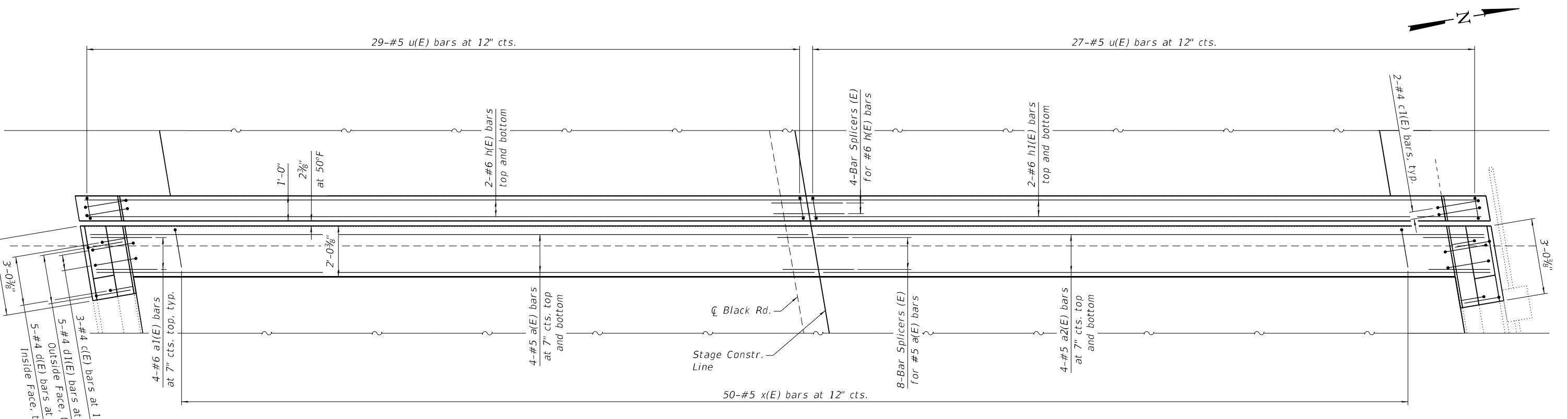
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	29
CONTRACT NO. 62M50				

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**JOINT REMOVAL PLAN**  
 (Joint removal at West Abutment shown. East Abutment similar.)



**JOINT RECONSTRUCTION PLAN**  
 (Joint reconstruction at West Abutment shown. East Abutment similar.)

Notes:  
 Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.



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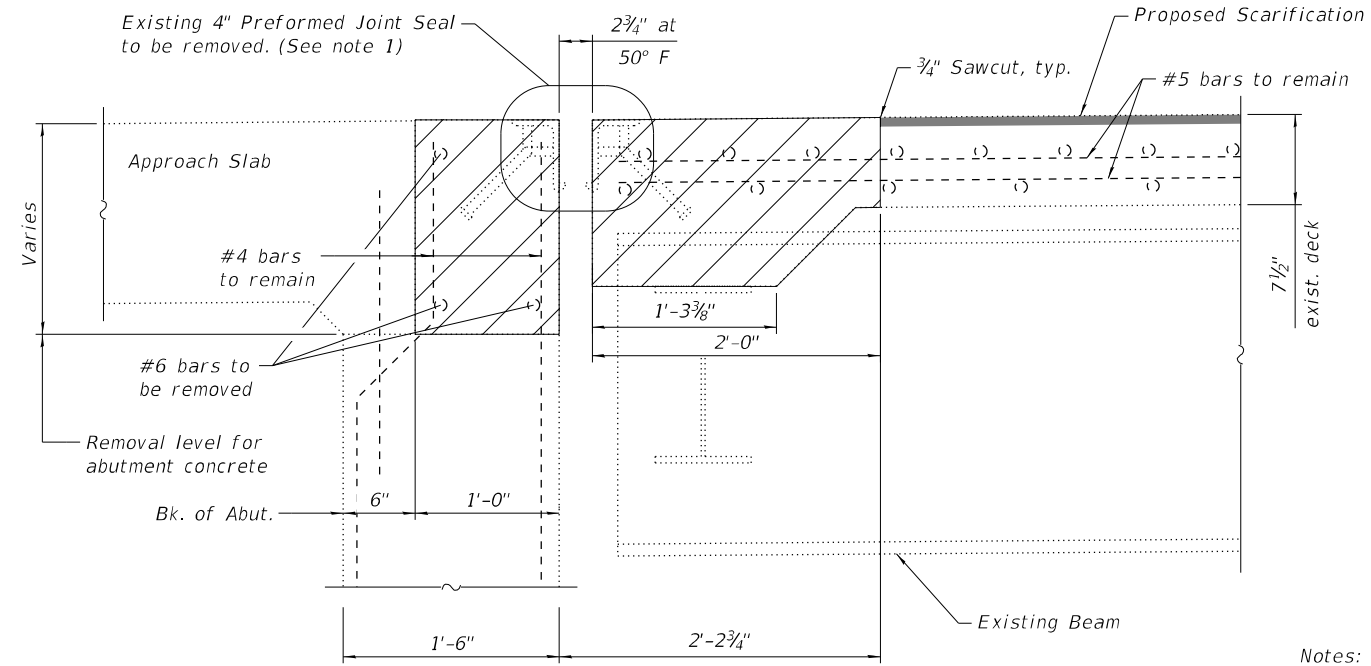
**JOINT RECONSTRUCTION DETAILS**  
**STRUCTURE NO. 099-0209**

SHEET 7 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	30
CONTRACT NO. 62M50				

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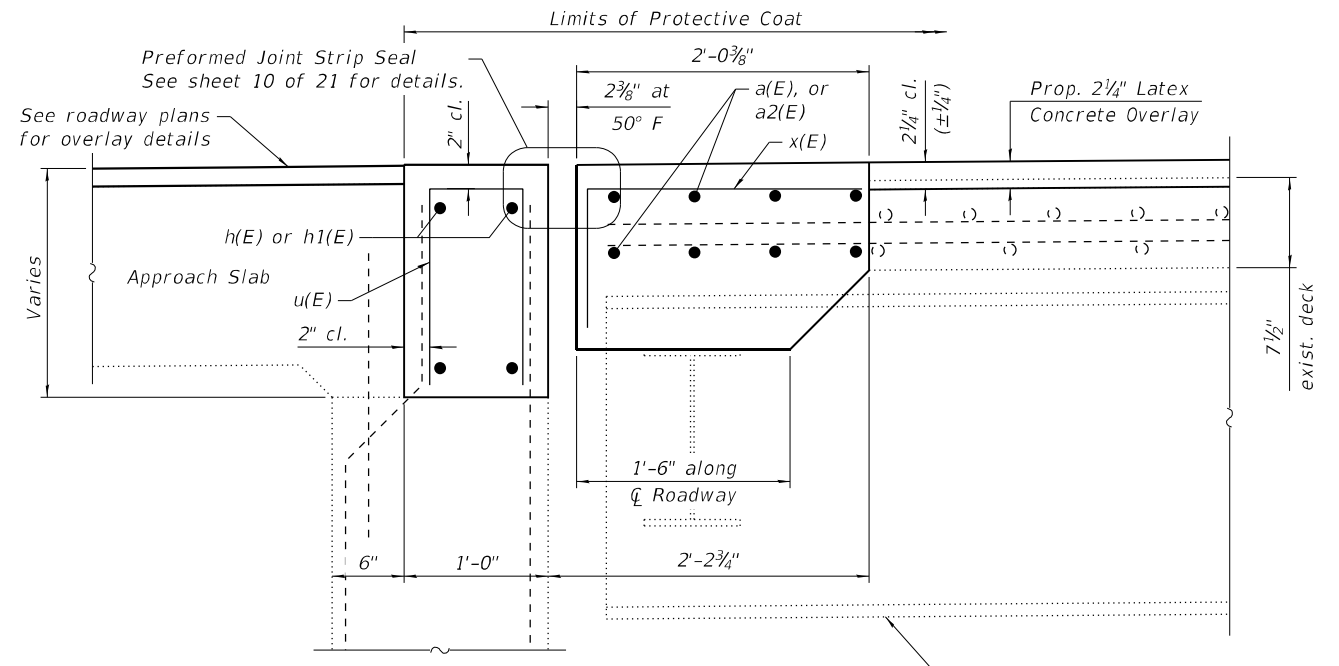


**SECTION A-A**  
(Showing Removal)

**LEGEND**

Concrete Removal Limits (See note 2)

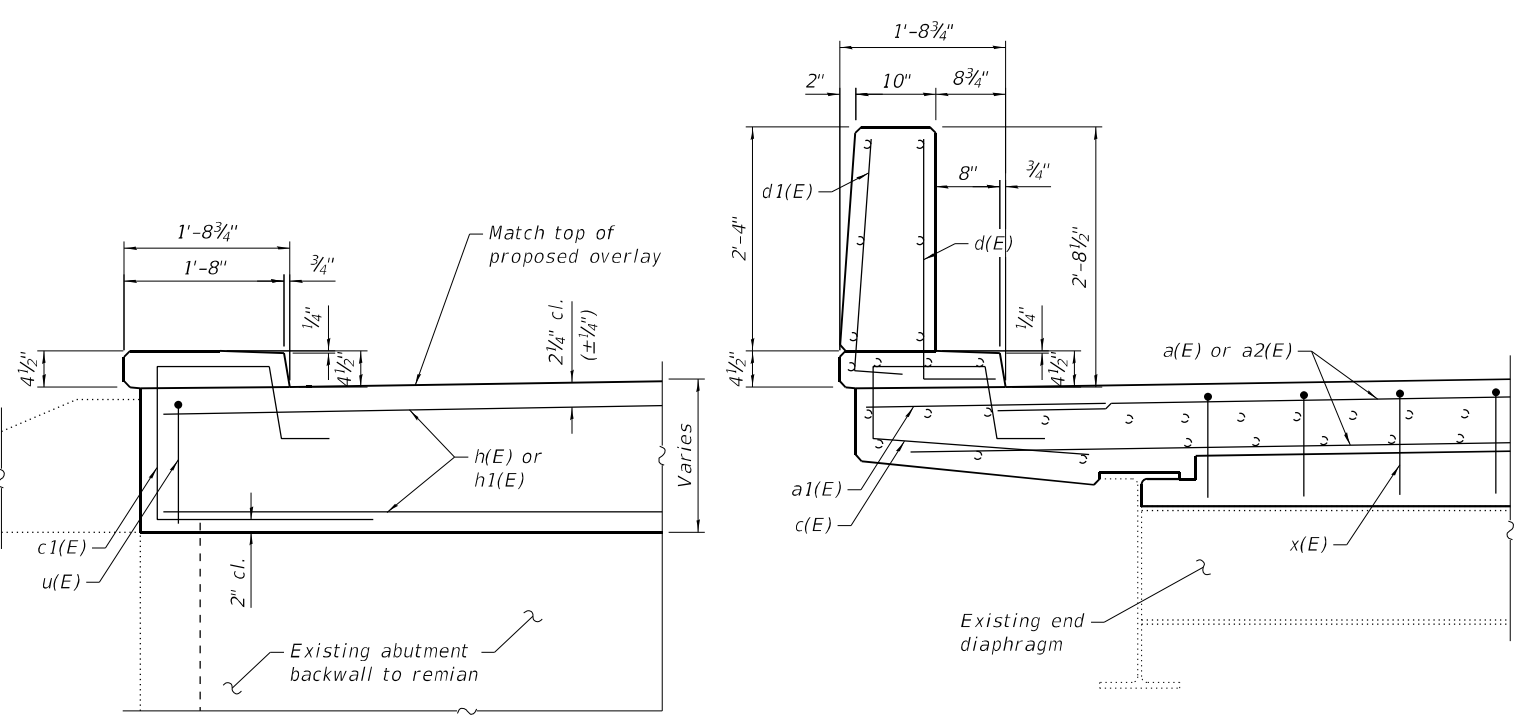
Proposed Scarification



**SECTION A-A**  
(Showing Reconstruction)

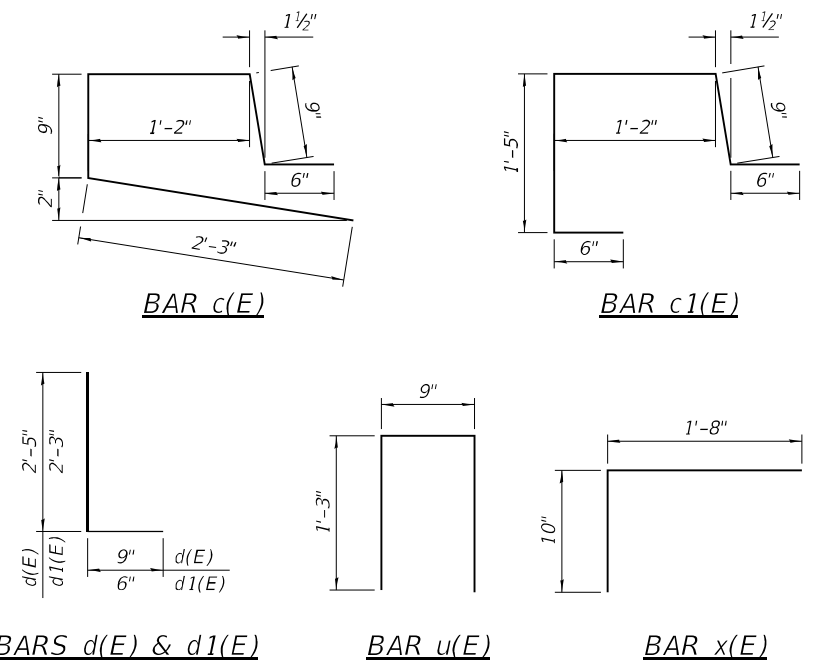
Notes:

1. Removal and disposal of existing expansion joint shall be included with the cost of Concrete Removal.
2. The Contractor shall use extreme care during concrete removal so as not to damage the steel beams.
3. See existing plans for reinforcement bars not shown. Existing reinforcement bars extending into the removal areas that are not shown shall remain.
4. 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.



**SECTION B-B**  
(Showing Reconstruction)

**SECTION C-C**  
(Showing Reconstruction)



**TWO JOINT RECONSTRUCTIONS**  
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	16	#5	28'-10"	—
a1(E)	8	#6	4'-0"	—
a2(E)	16	#5	26'-10"	—
c(E)	12	#4	5'-5"	┌┐
c1(E)	8	#4	3'-8"	┌┐
d(E)	20	#4	3'-2"	└┘
d1(E)	20	#4	2'-9"	└┘
h(E)	8	#6	28'-10"	—
h1(E)	8	#6	26'-10"	—
u(E)	112	#5	3'-3"	┌┐
x(E)	100	#5	2'-6"	┌┐
Concrete Removal			Cu. Yd.	15.8
Concrete Superstructure			Cu. Yd.	18.2
Reinforcement Bars, Epoxy Coated			Pound	2,430
Bar Splicers			Each	24

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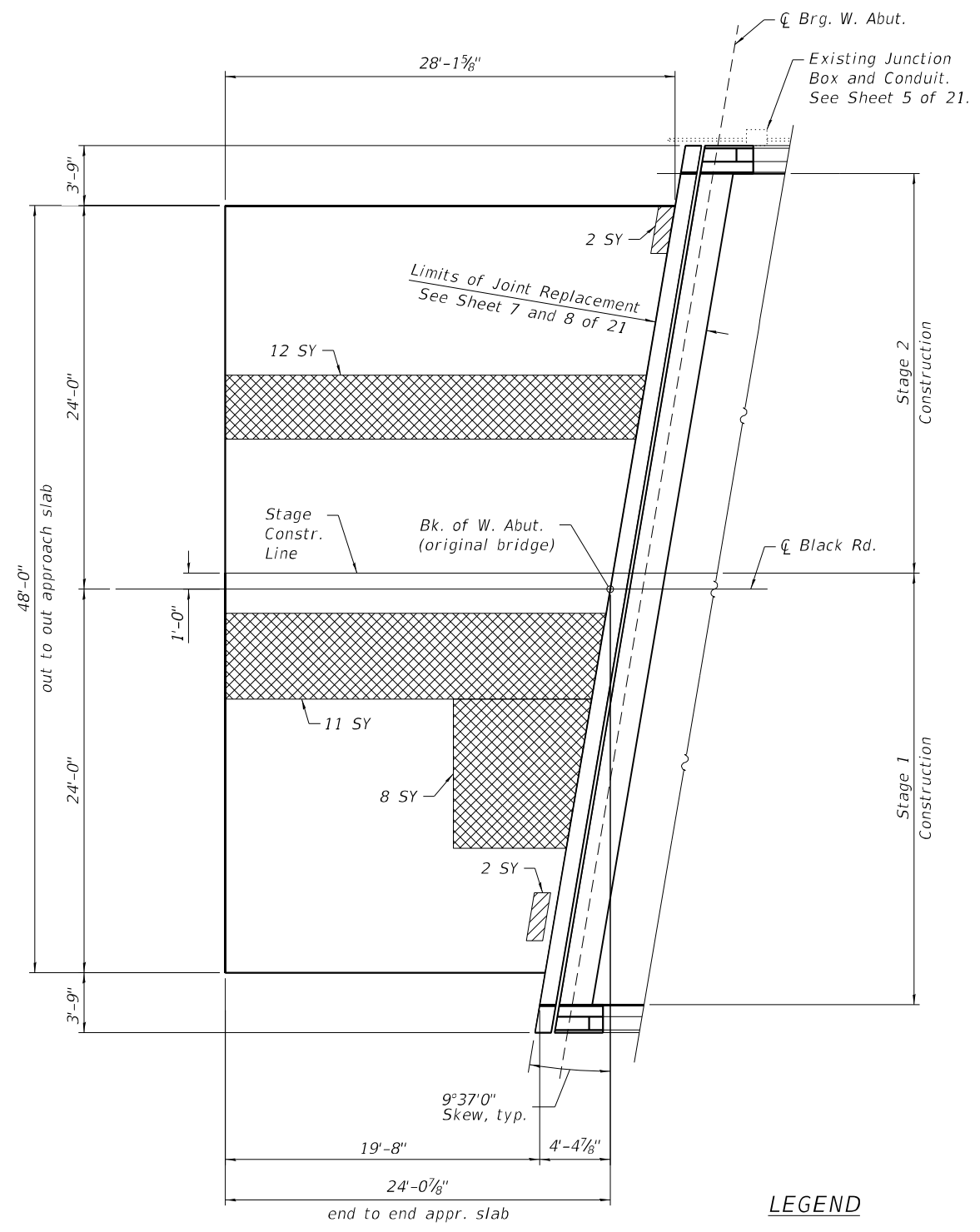
**JOINT RECONSTRUCTION DETAILS**  
**STRUCTURE NO. 099-0209**

SHEET 8 OF 21 SHEETS

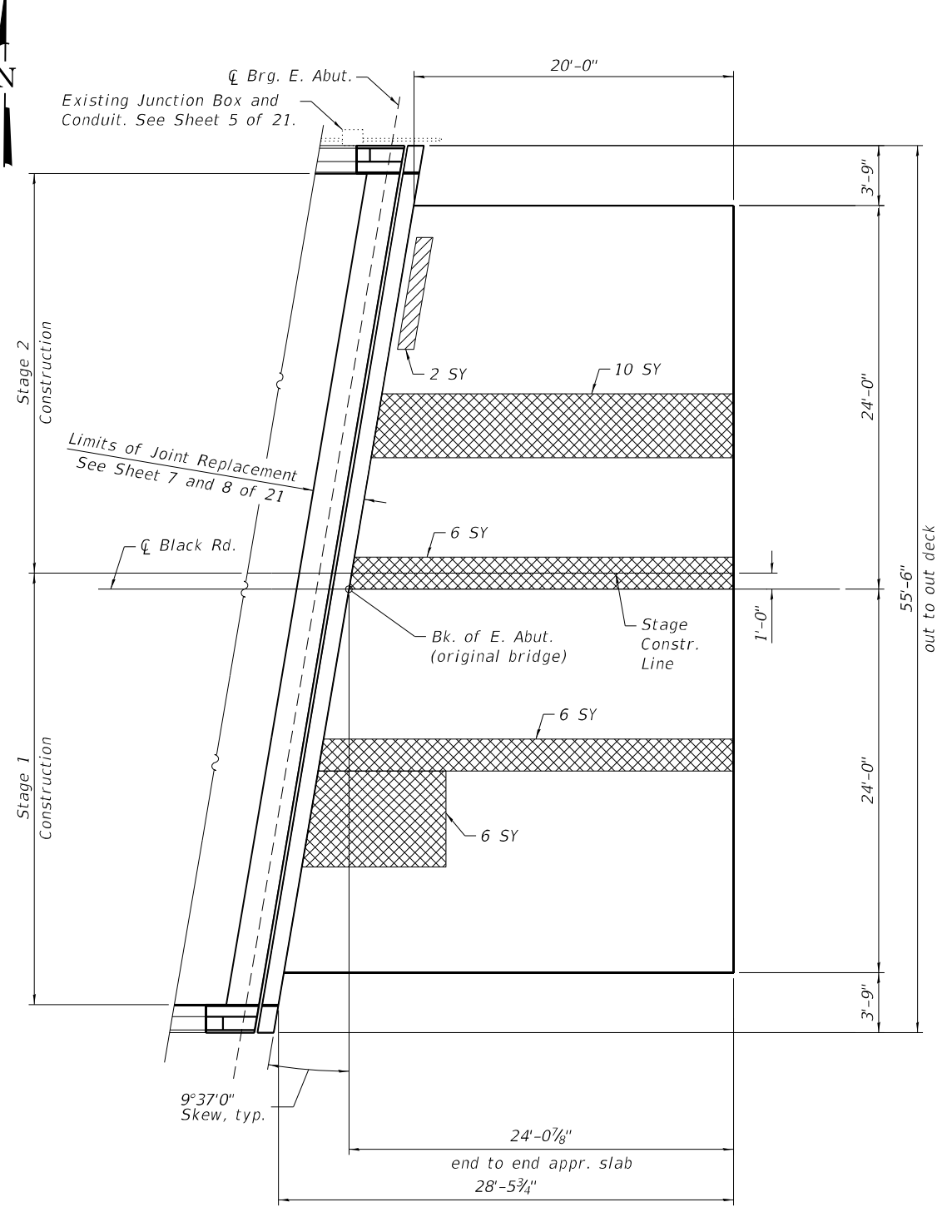
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CONTRACT NO. 62M50				
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WEST APPROACH SLAB REPAIR PLAN



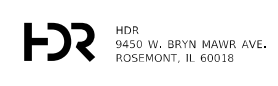
EAST APPROACH SLAB REPAIR PLAN

**LEGEND**

- Approach Slab Repair (Partial Depth)
- Approach Slab Repair (Full Depth)

**BILL OF MATERIAL**

Item	Unit	Quantity
Approach Slab Repair (Full Depth)	Sq. Yd.	59
Approach Slab Repair (Partial Depth)	Sq. Yd.	6



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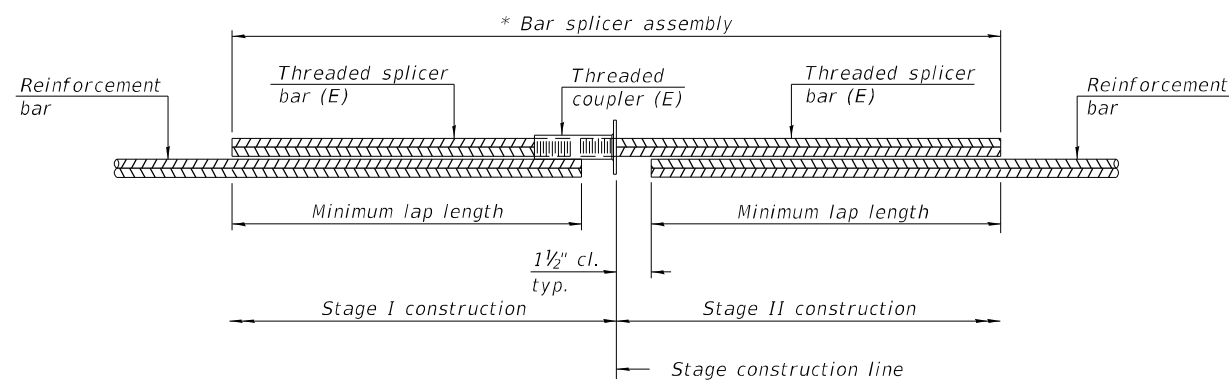
**APPROACH SLAB REPAIRS  
 STRUCTURE NO. 099-0209**

SHEET 9 OF 21 SHEETS

F.A.I. RTE. 55	SECTION 2020-163-BR	COUNTY WILL	TOTAL SHEETS 65	SHEET NO. 32
CONTRACT NO. 62M50				
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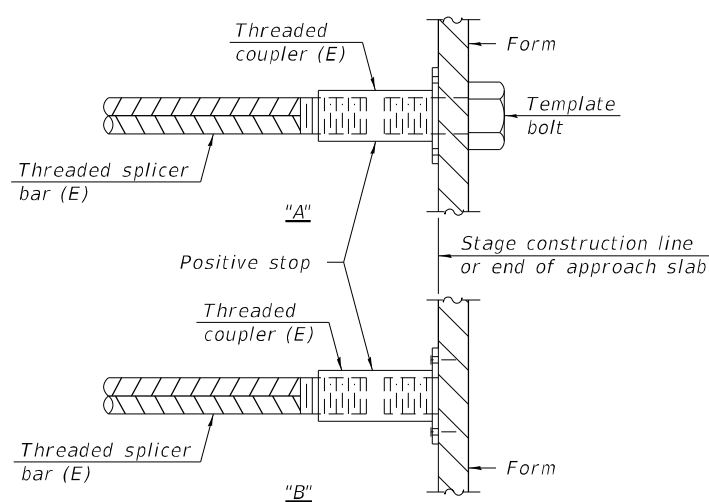


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

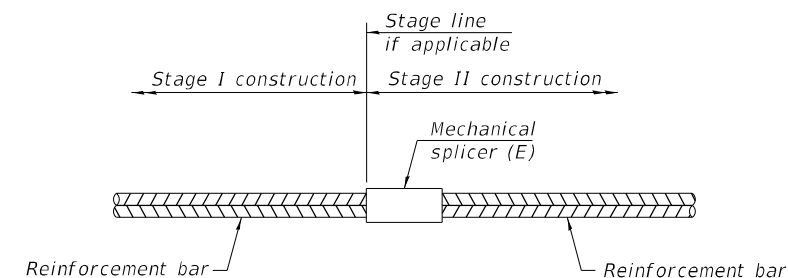
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	16	3'-6"
Backwall	#6	8	4'-0"



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

**Notes:**  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

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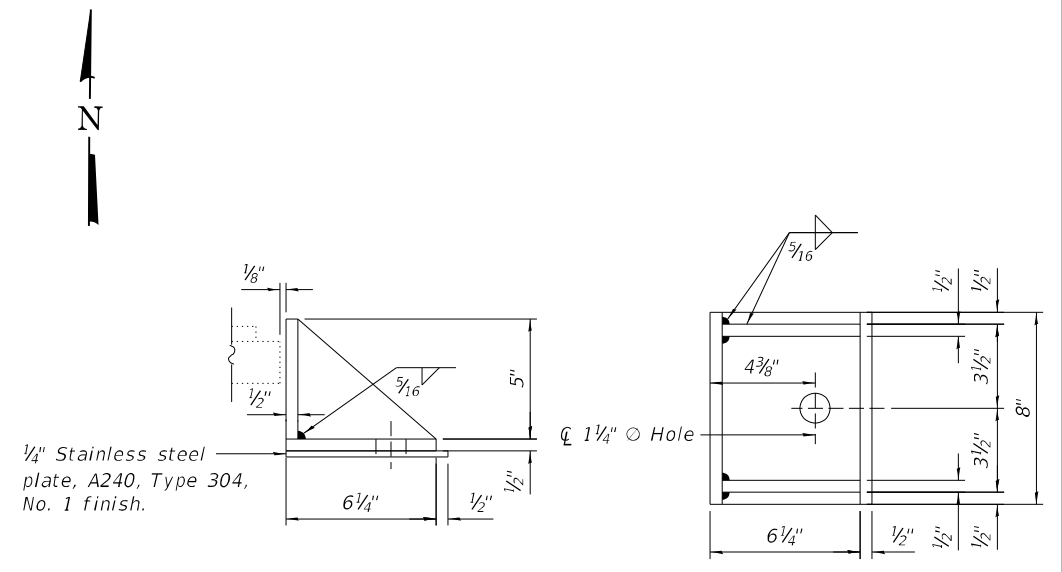
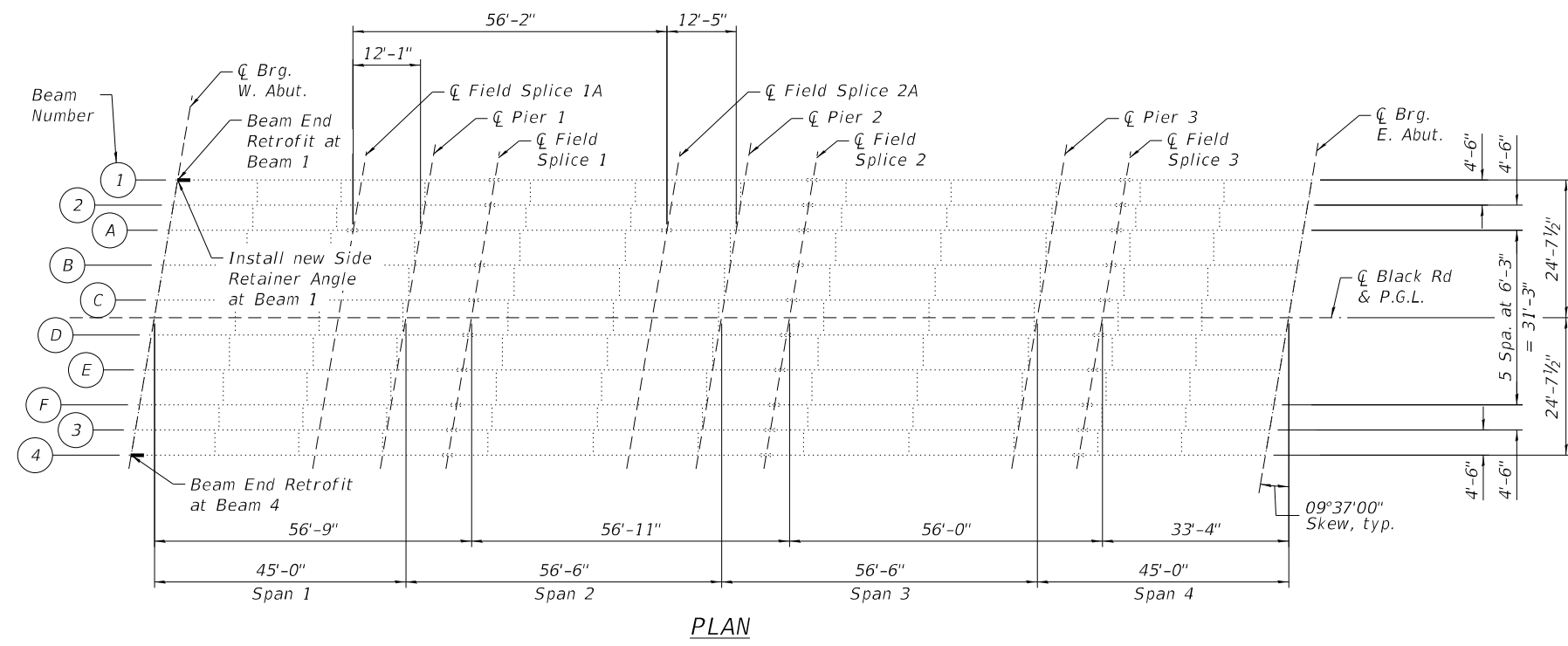
**BAR SPLICER ASSEMBLY DETAILS  
 STRUCTURE NO. 099-0209**

SHEET 11 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	34
CONTRACT NO. 62M50				

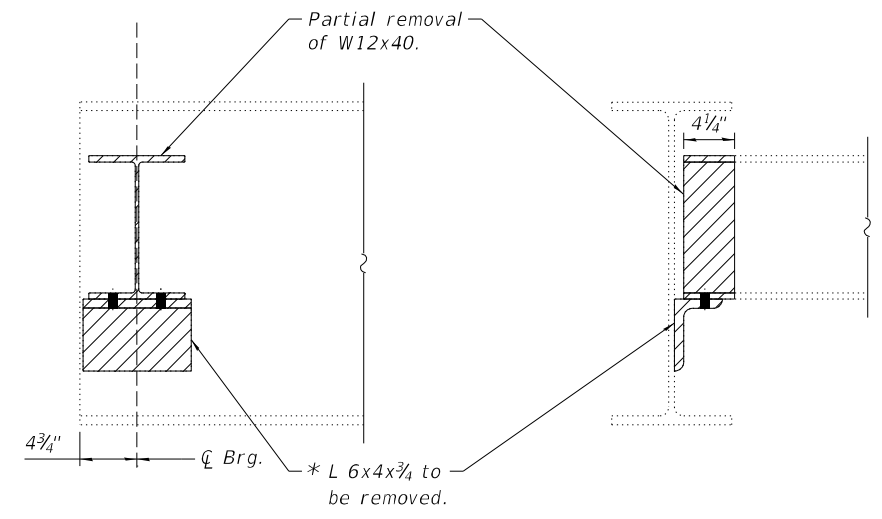
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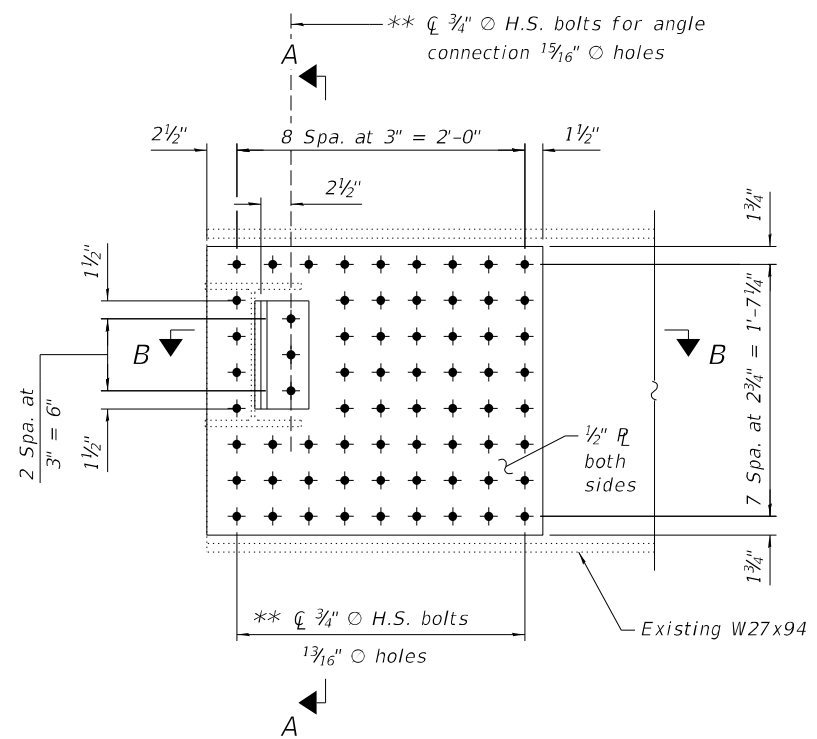
**SIDE RETAINER**  
 (1 Required - Beam 1)

**Notes:**  
 Provide 1"  $\times$  12" All-thread anchor bolt (Grade 36) with a 2 1/4"  $\times$  2 1/4"  $\times$  5/16"  $\phi$  washer under nut.  
 New side retainer and stainless steel plate are paid for as Furnishing and Erecting Structural Steel.  
 Removal of existing side retainer is paid for as Structural Steel Removal.



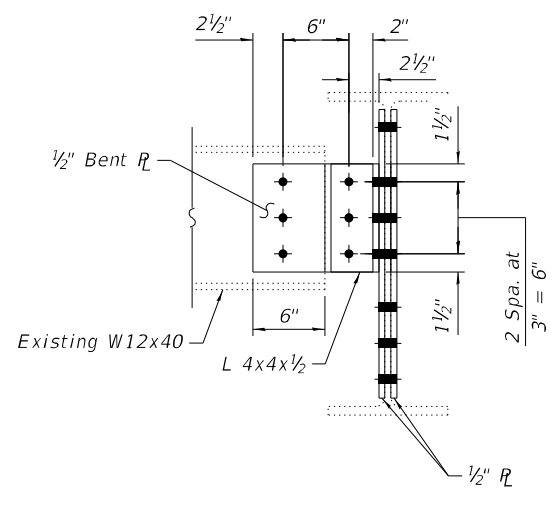
**PARTIAL DIAPHRAGM REMOVAL**  
 (2 Required - Beam 1 and Beam 4)

\* Weld connecting L 6x4x3/4 to W27x94 are to be ground smooth. Cost included with Structural Steel Removal.



**BEAM END RETROFIT AT WEST ABUTMENT**  
 (2 Required - Beam 1 and Beam 4)

\*\* Drill holes in proposed plates in shop and use plate as template to drill remaining holes in field. Cost of field drilling included in Structural Steel Repair.

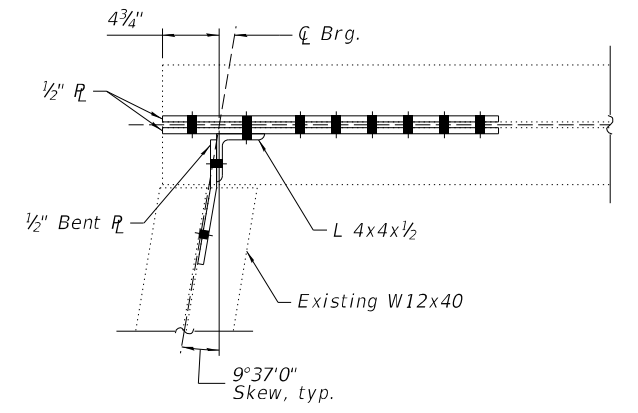


**SECTION A-A**

\*\*\* Includes all new diaphragm connection plates, diaphragm connection angles, side retainer, stainless steel plate, and HS bolts.

\*\*\*\* Includes removal of side retainer, diaphragm support angles, and partial removal of end diaphragms as indicated.

\*\*\*\*\* Includes all steel work need to repair beam ends.



**SECTION B-B**

**BILL OF MATERIAL**

Item	Unit	Quantity
*** Furnishing and Erecting Structural Steel	Pound	220
*** Anchor Bolts, 1"	Each	1
**** Structural Steel Removal	Pound	90
***** Structural Steel Repair	Pound	370



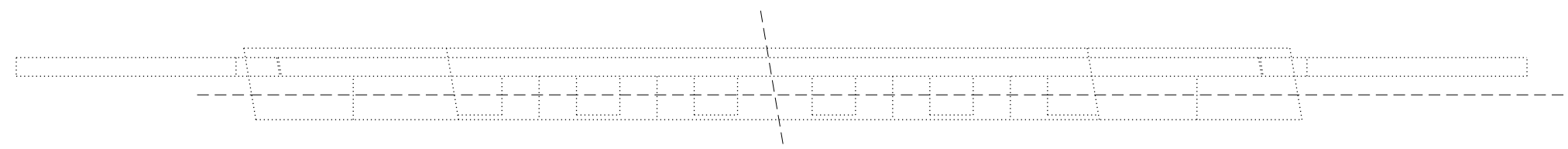
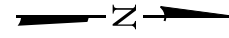
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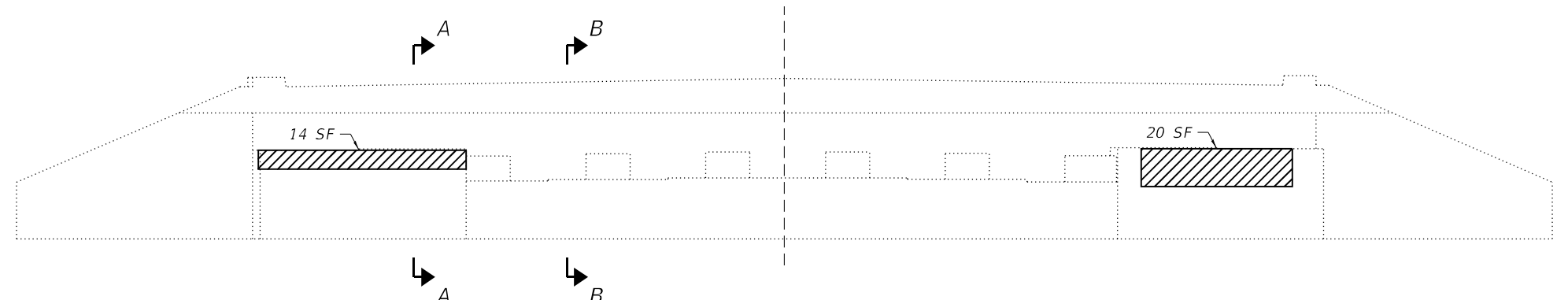
**STRUCTURAL STEEL REPAIRS**  
**STRUCTURE NO. 099-0209**

SHEET 12 OF 21 SHEETS

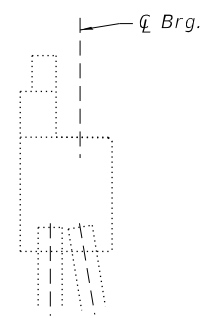
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			CONTRACT NO. 62M50	
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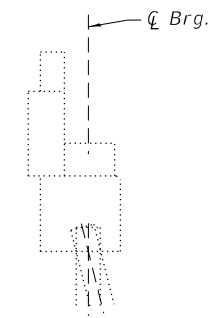
W. ABUTMENT PLAN



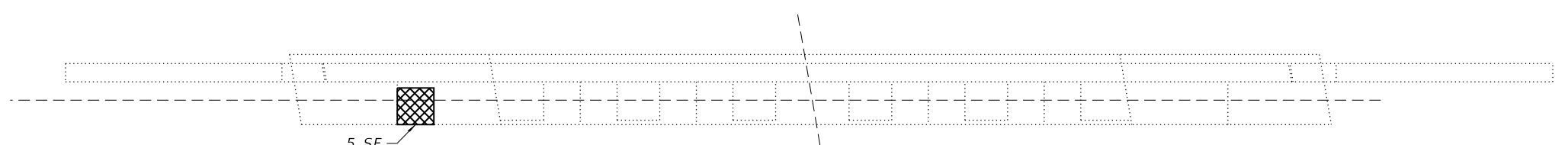
W. ABUTMENT ELEVATION



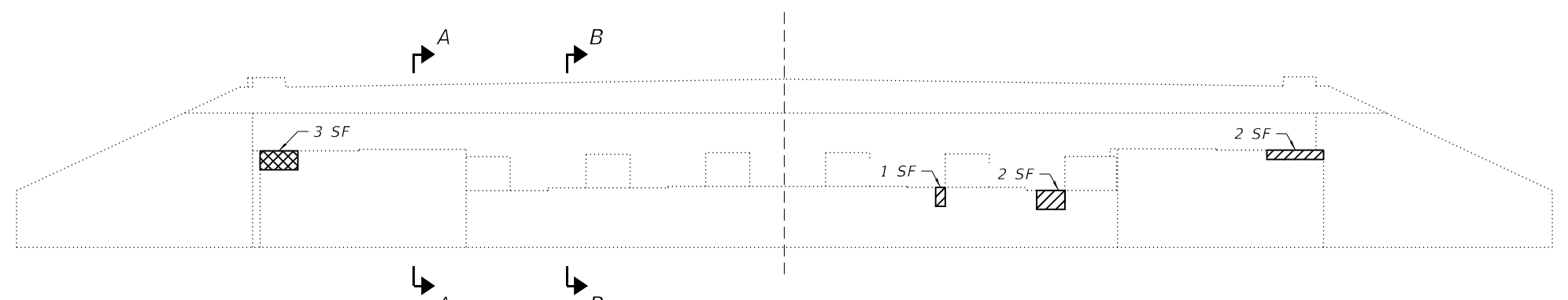
SECTION A-A



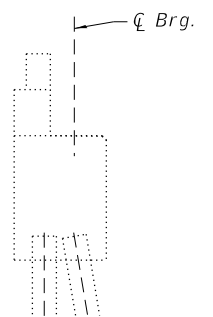
SECTION B-B



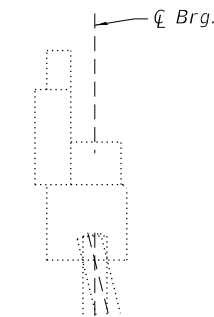
E. ABUTMENT PLAN



E. ABUTMENT ELEVATION



SECTION A-A



SECTION B-B

TWO ABUTMENTS  
BILL OF MATERIAL

LEGEND

- Structural Repair of Concrete (Depth equal to or less than 5 inches)
- Structural Repair of Concrete (Depth greater than 5 inches)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to Or Less Than 5 Inches)	Sq. Ft.	39
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	8

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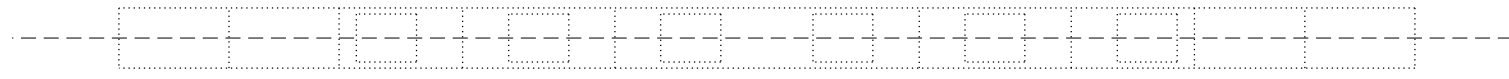
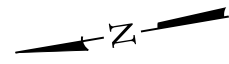
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ABUTMENT REPAIRS  
STRUCTURE NO. 099-0209

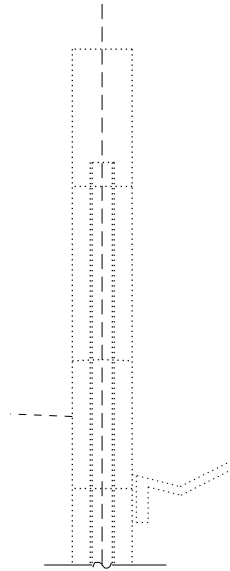
SHEET 13 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	36
CONTRACT NO. 62M50				

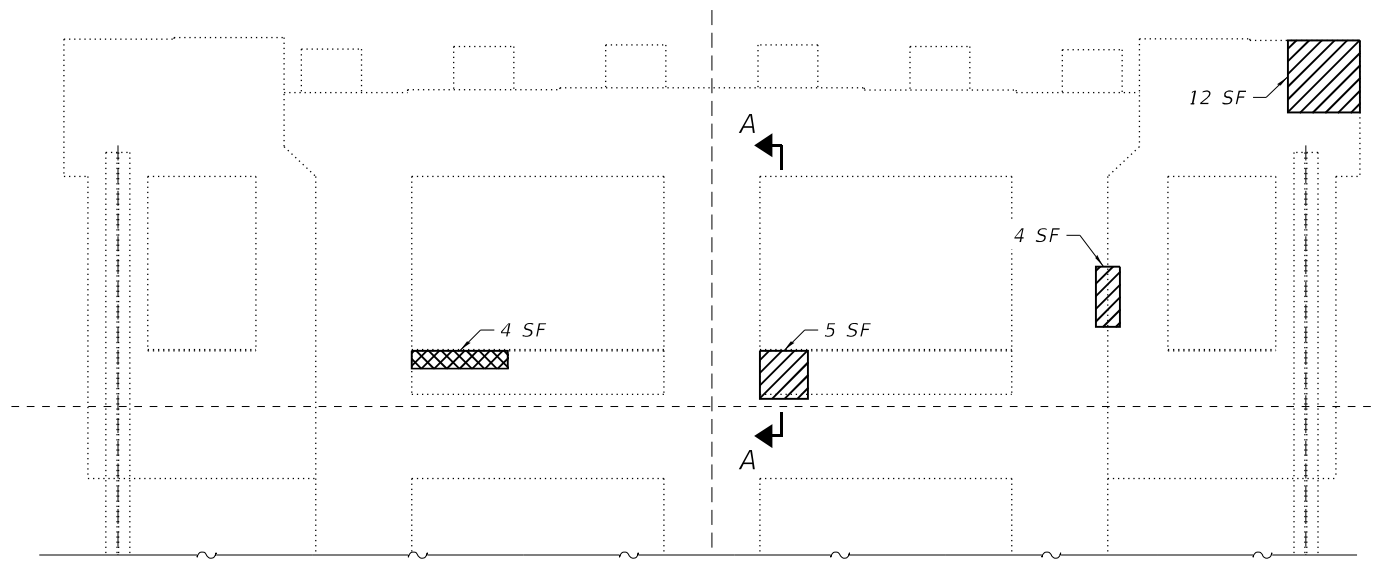
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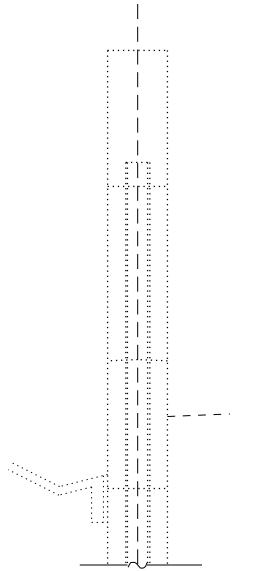
PLAN



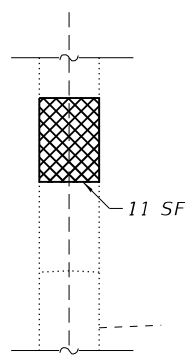
END VIEW



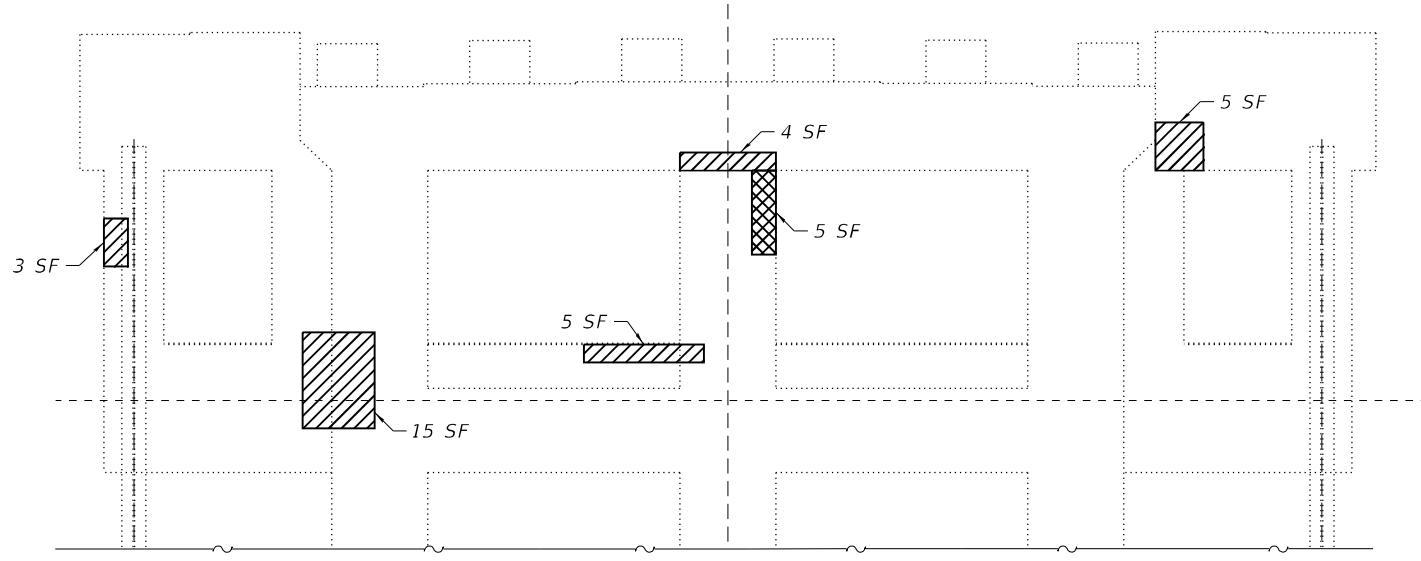
ELEVATION  
(Looking East)



END VIEW



SECTION A-A



ELEVATION  
(Looking West)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to Or Less Than 5 Inches)	Sq. Ft.	53
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	20

LEGEND

- Structural Repair of Concrete  
(Depth equal to or less than 5 inches)
- Structural Repair of Concrete  
(Depth greater than 5 inches)

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

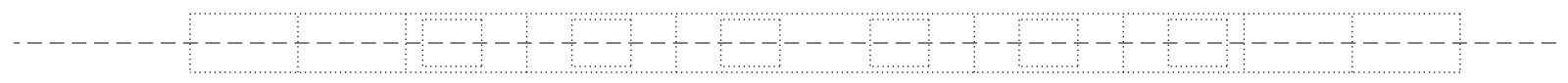
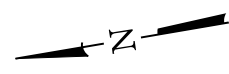
USER NAME =	DESIGNED - BHS	REVISED -
CHECKED - SA	REVISIONS -	
PLOT SCALE =	DRAWN - AMN	REVISED -
PLOT DATE = 12/22/2021	CHECKED - BHS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

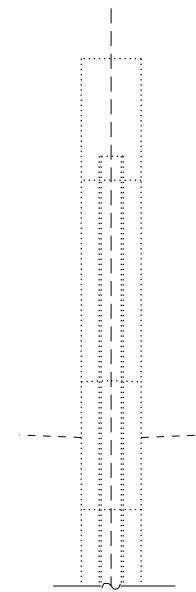
**PIER 1 REPAIRS  
STRUCTURE NO. 099-0209**

SHEET 14 OF 21 SHEETS

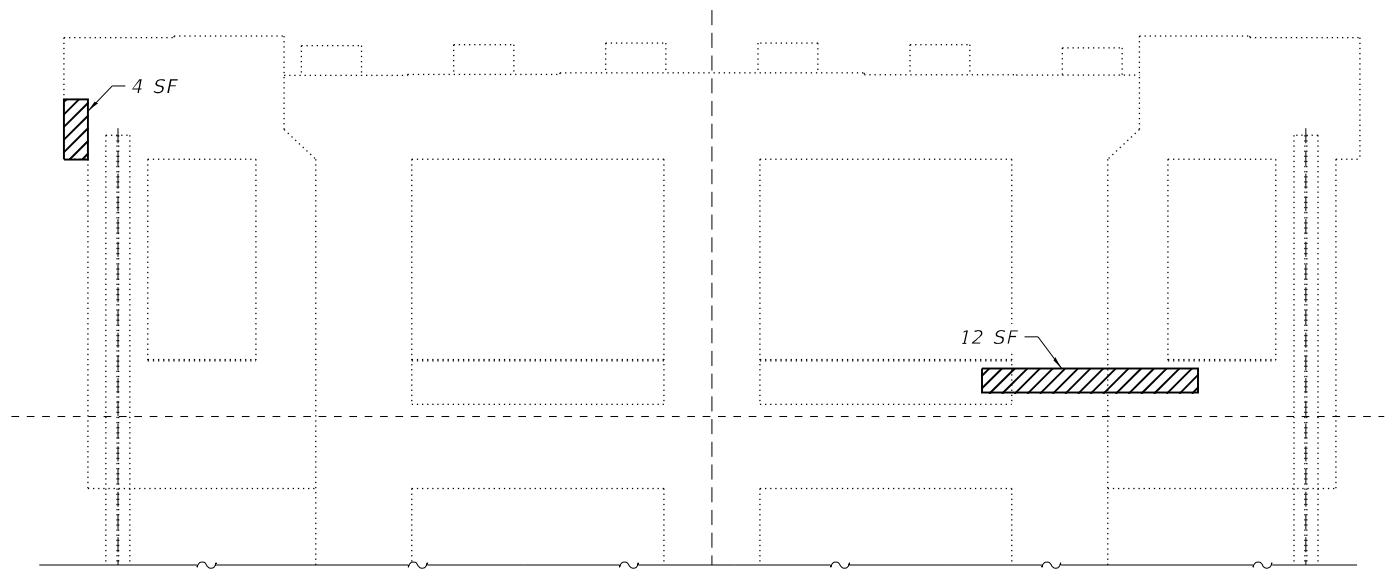
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	37
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				



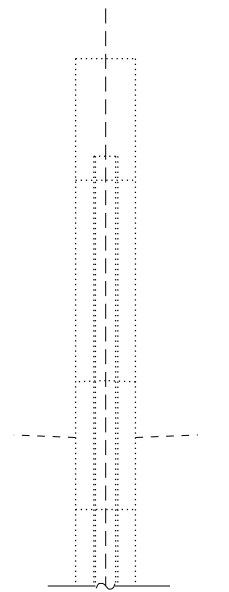
PLAN



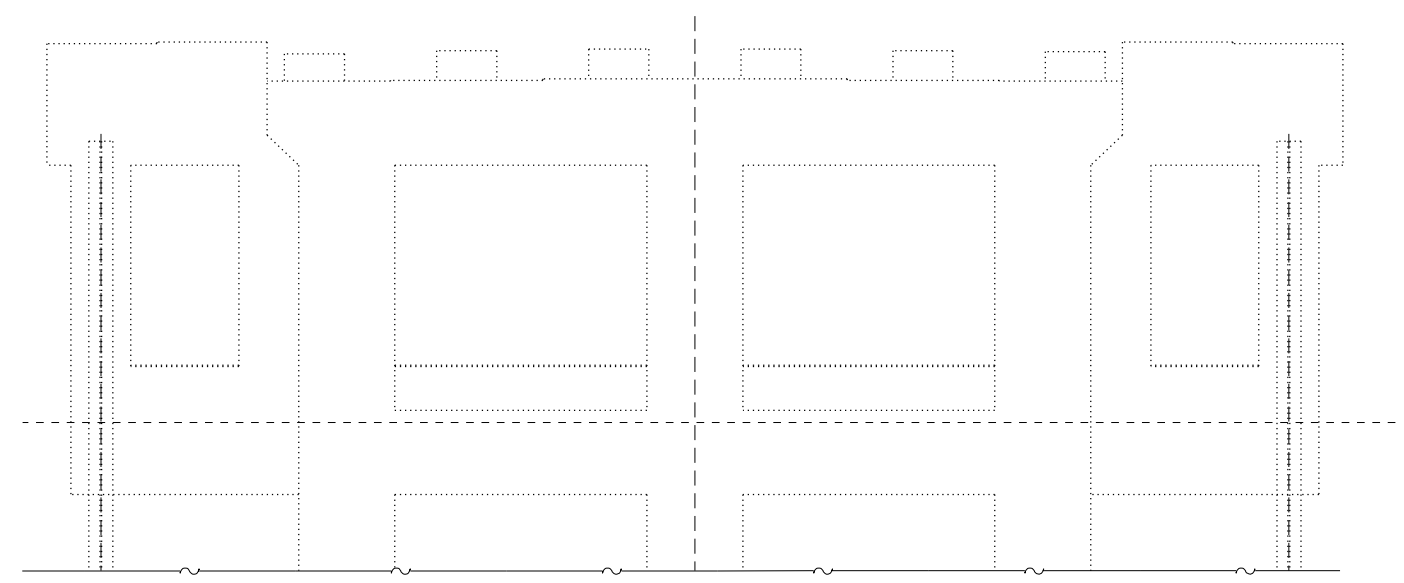
END VIEW



ELEVATION  
(Looking East)



END VIEW



ELEVATION  
(Looking West)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to Or Less Than 5 Inches)	Sq. Ft.	16

LEGEND

Structural Repair of Concrete  
(Depth equal to or less than 5 inches)

MODEL: Default  
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**HDR**  
HDR  
9450 W. BRYN MAWR AVE.  
ROSEMONT, IL 60018

USER NAME =	DESIGNED - BHS	REVISED -
	CHECKED - SA	REVISED -
PLOT SCALE =	DRAWN - AMN	REVISED -
PLOT DATE = 12/22/2021	CHECKED - BHS	REVISED -

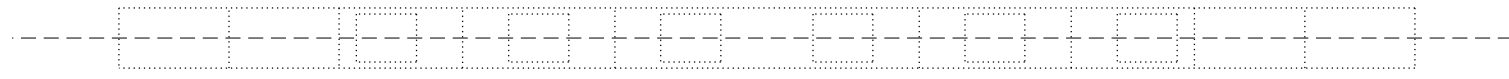
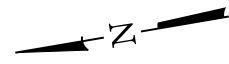
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PIER 2 REPAIRS**  
**STRUCTURE NO. 099-0209**

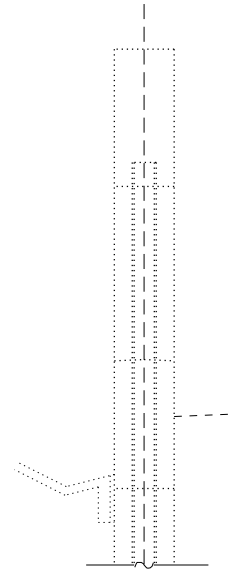
SHEET 15 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	38
CONTRACT NO. 62M50				

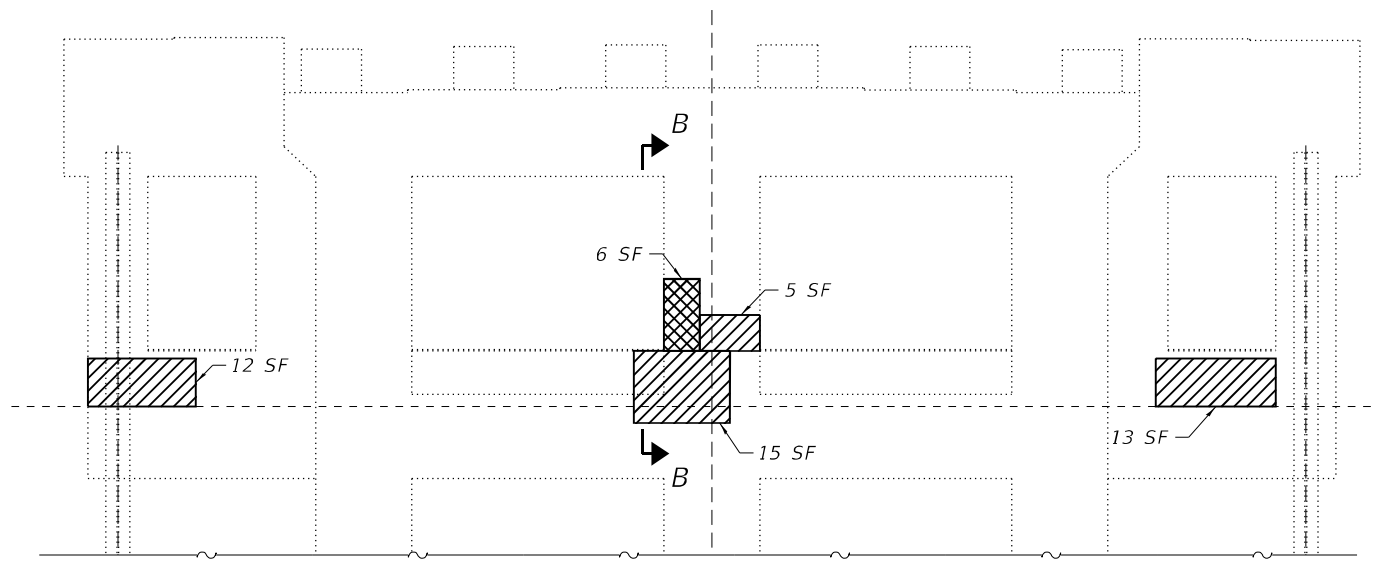
ILLINOIS FED. AID PROJECT



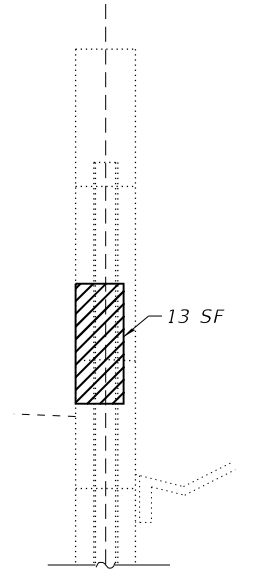
PLAN



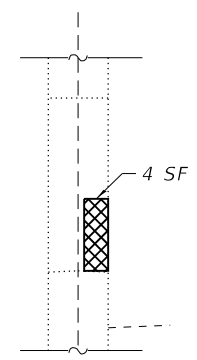
END VIEW



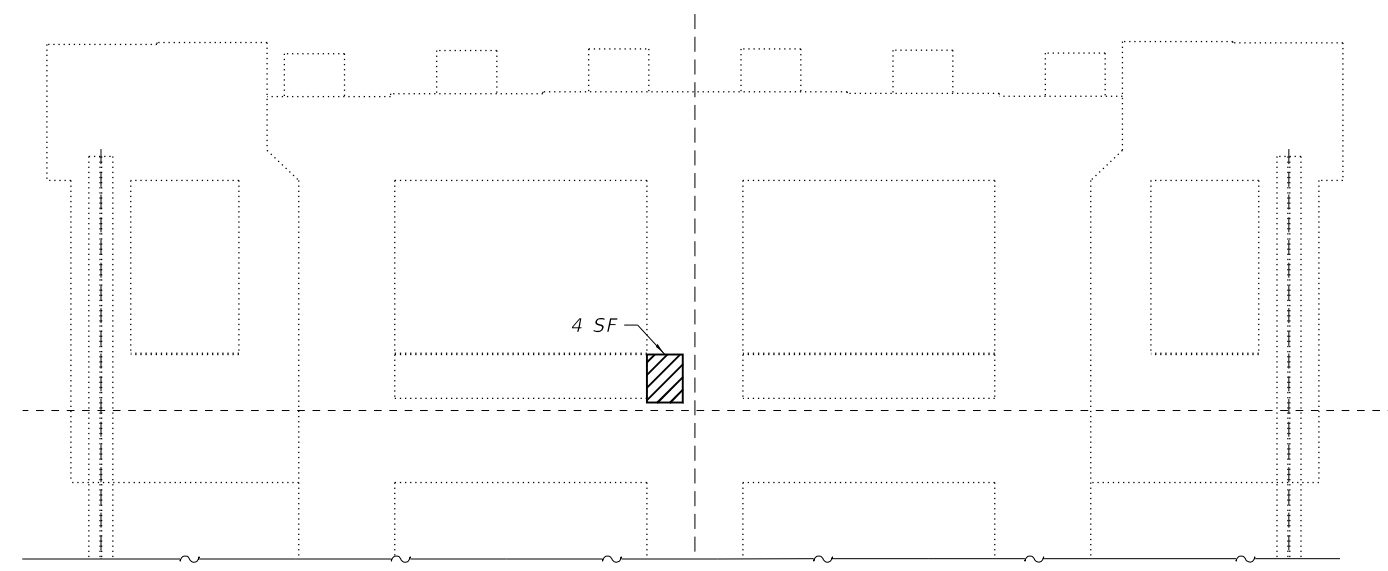
ELEVATION  
(Looking East)



END VIEW



SECTION B-B



ELEVATION  
(Looking West)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to Or Less Than 5 Inches)	Sq. Ft.	62
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	10

LEGEND

- Structural Repair of Concrete  
(Depth equal to or less than 5 inches)
- Structural Repair of Concrete  
(Depth greater than 5 inches)

MODEL: Default  
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**HDR**  
 HDR  
 9450 W. BRYN MAWR AVE.  
 ROSEMONT, IL 60018

USER NAME =	DESIGNED - BHS	REVISED -
	CHECKED - SA	REVISED -
PLOT SCALE =	DRAWN - AMN	REVISED -
PLOT DATE = 12/22/2021	CHECKED - BHS	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PIER 3 REPAIRS  
 STRUCTURE NO. 099-0209**

SHEET 16 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	39
			CONTRACT NO. 62M50	

ILLINOIS FED. AID PROJECT



Bench Mark: "A", "D" chiseled in top of N.W. wingwall of Black Road Bridge over I-55, Sta. 19+00, 25' Left Elev. 602.15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			40	16
FED. ROAD DIST. NO. 7			ILL. ROAD	FED. AID PROJECT

SHEET NO. 1  
20 SHEETS

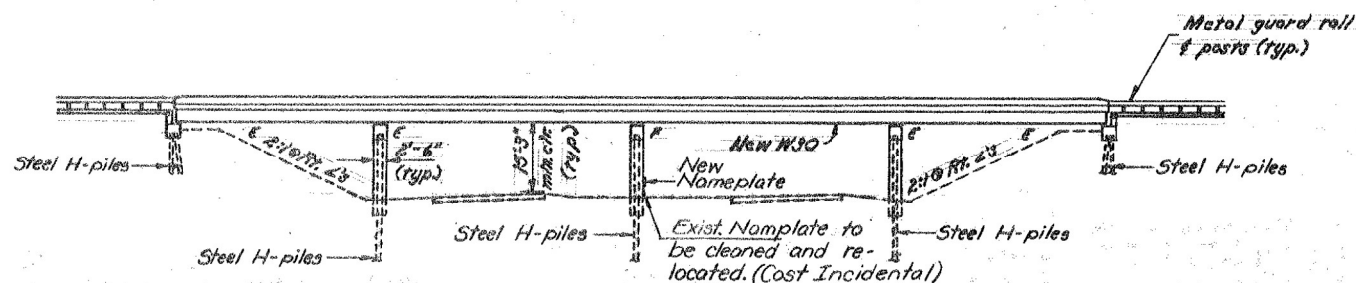
Existing Structure: S.A. 099-0209; The existing structure built in 1959 is a 2 lane, 4 span continuous non-composite bridge with an out to out width of 31'-0" and a length of 207'-0" Bk. to Bk. of abutments. The contractor shall remove the existing R.C. deck, widen the substructure and superstructure, construct new R.C. deck and install new expansion bearings under the existing beams. Traffic to be detoured. No salvage

SEQUENCE OF CONSTRUCTION

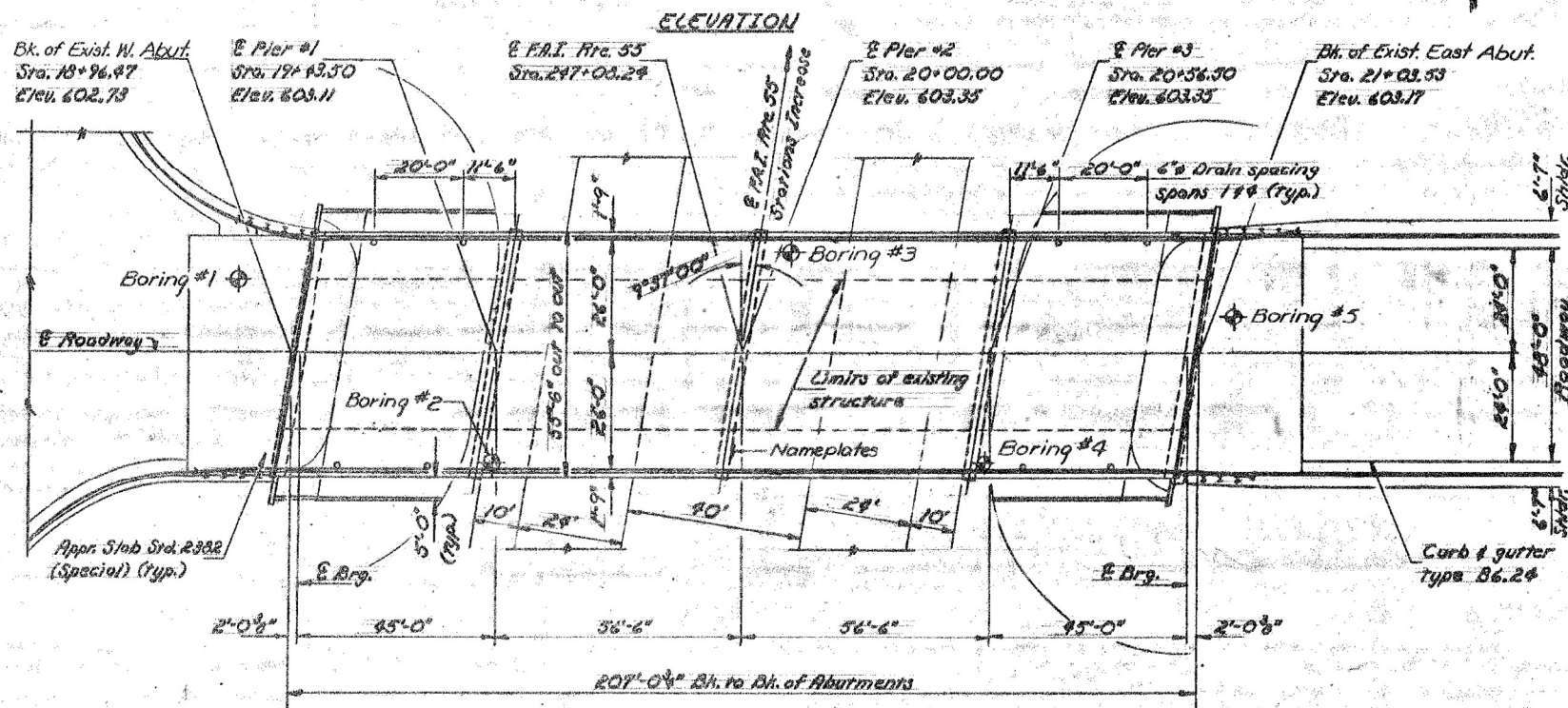
The reconstruction and raising of this structure will occur in the following sequence:

1. That portion of the deck over the ends of the cover plates, at the locations shown on Sheet 9 of 20 shall be removed and the weld between beam and cover plate shall be peened as detailed.
2. The existing concrete deck is to be entirely removed. This shall be accomplished without damage to the existing beams.
3. The existing structural steel is to be raised, new concrete pedestals constructed and new bearings installed.
4. The existing structural steel is to be repaired.
5. That new portion of the substructure elements which will support the new exterior steel beams (Beams 1, 2, 3, & 4) shall be constructed.
6. The new structural steel shall be erected.
7. The new concrete deck is to be poured.

Note: For General Notes and Slope Wall Detail, see Sheet 2 of 20.



1896.47  
210353

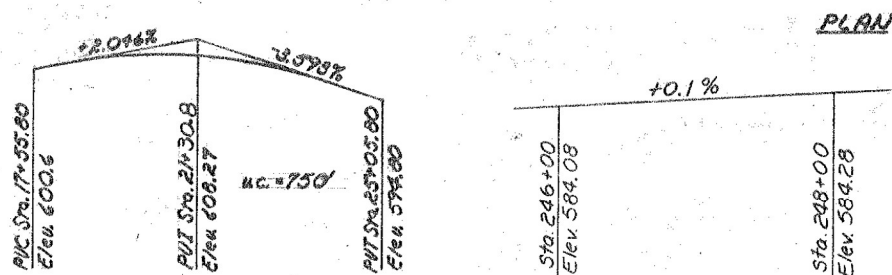


STATION 20+00.00  
REBUILT 198 BY  
STATE OF ILLINOIS  
FA.U.R.0298 SEC.99-2HBK-BY(82)  
F.A. PROJ. IX-5138(67)  
LOADING HS20  
STR. NO. 099-0209  
NAME PLATE  
(See Std. 2113)

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
* Removal of Existing Concrete Deck	L. Sum			1
Concrete Removal	Cu. Yd.		21	21
Structure Excavation	Cu. Yd.		155	155
Floor Drains	Each	8		8
Protective Coat	Sq. Yd.	1391		1391
Preformed Joint Seal (4")	Lin. Ft.	112		112
Elastomeric Bearing Assembly, Type I	Each		20	20
Elastomeric Bearing Assembly, Type II	Each		20	20
Class X Concrete	Cu. Yd.	343.6	151.1	494.7
Structural Steel	L. Sum			1
Cleaning and Painting Steel Bridge	L. Sum			1
Reinforcement Bars	Pound		15,040	15,040
Reinforcement Bars (Epoxy Coated)	Pound	76,910		76,910
Steel Piles HP8x36	Lin. Ft.		308	308
Steel Piles HP10x42	Lin. Ft.		131	131
Test Pile Steel HP8x36	Each		1	1
Test Pile Steel HP10x42	Each		1	1
Name Plates	Each	1		1
Jacking Existing Structure	L. Sum			1
Slope Wall 4"	Sq. Yd.			672
Temporary Support System	Each			2
Slope Wall Removal	Sq. Yd.			372
Expansion Bolts 3/4 Inch	Each			202

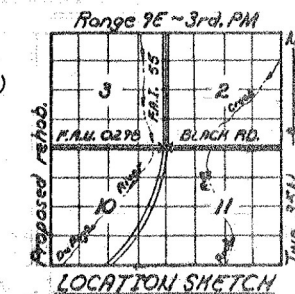
\* Cost of removing existing handrail is incidental to Removal of Existing Concrete Deck.



DESIGN STRESSES  
f<sub>t</sub> = 1900 psi  
f<sub>c</sub> = 24,000 psi (reinf.)  
f<sub>s</sub> = 20,000 psi (str. str.) (M183)

DESIGN SPECIFICATIONS  
1983 RASHTO & 1984 Interims

LOADING HS20-44  
(new construction)  
Allow 25#/sq. ft. for future wearing surface.



GENERAL PLAN  
BLACK ROAD OVER F.A.I. ROUTE 55  
F.A.U. ROUTE 0298 ~ SEC. 99-2HBK-BY (82)  
WILL COUNTY  
STA. 20+00.00  
STRUCTURE NO. 099-0209

DESIGNED Mary H. Blawie  
CHECKED Paul S. M...  
DRAWN D.L. WC  
CHECKED M.H.B. P.S.M.  
10-9-85

APR 1 1986  
EXAMINED Jay D. Kaspar  
PASSED James J. K...  
APPROVED  
DIRECTOR OF HIGHWAYS

USER NAME =	DESIGNED - BHS	REVISED -
PLOT SCALE =	CHECKED - SA	REVISED -
DATE = 12/22/2021	DRAWN - AMN	REVISED -
	CHECKED - BHS	REVISED -

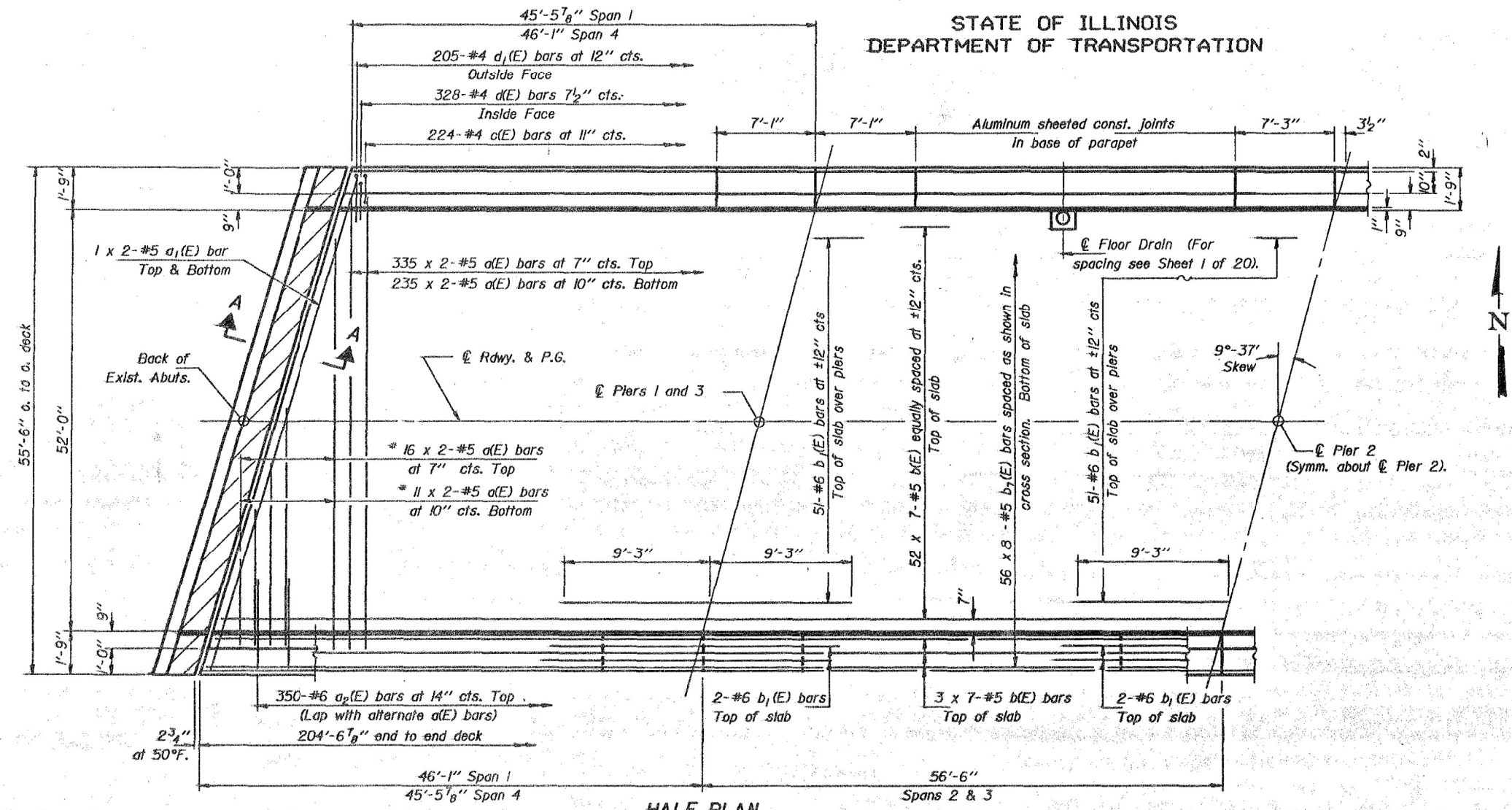
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)  
STRUCTURE NO. 099-0209

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	40
CONTRACT NO. 62M50			ILLINOIS   FED. AID PROJECT	

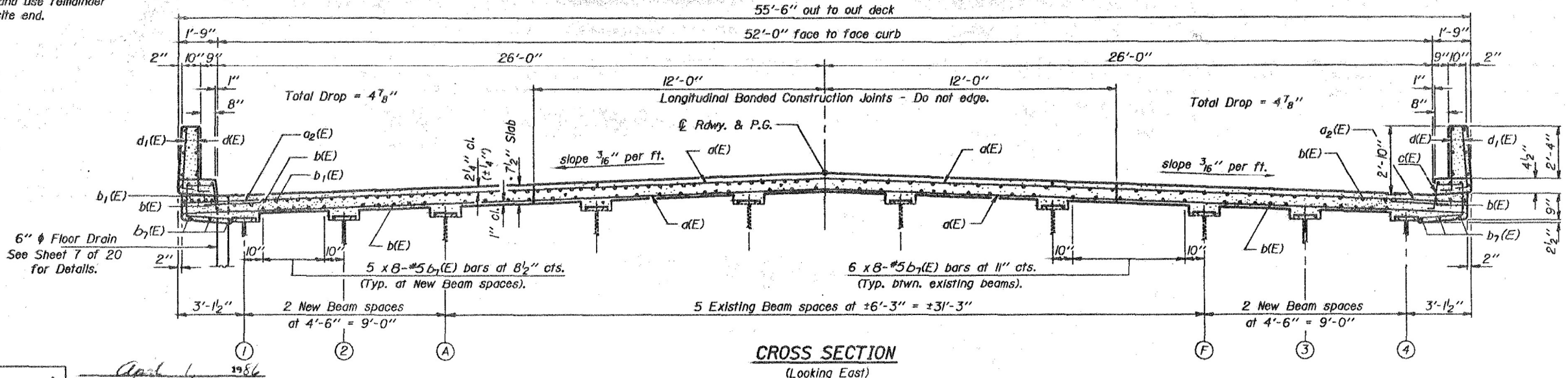
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
			40	21
F.A.U. RT. 0298			WILL COUNTY	
STA. 20+00.00			CONTRACT NO. 62M50	



Notes: See Sheet 7 of 20 for Superstructure Details, Section A-A, and Bill of Material.  
Reinforcement bars designated (E) shall be epoxy coated.  
Bars indicated thus 50 x 7-#5 etc. indicates 50 lines of bars with 7 lengths per line.  
The minimum lap for #5 bars is 2'-2\".

\* Order d(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.



DESIGNED	Mary H. Blawie	EXAMINED	April 4, 1986 D. J. Kaspar
CHECKED	Paul S. McCombs	PASSED	James J. Kuehner
DRAWN	D. Herbert	APPROVED	[Signature]
CHECKED	M.H.B. P.S.M.		

S-1-LK(15°) 12-1-83

USER NAME =	DESIGNED - BHS	REVISED -
PLOT SCALE =	CHECKED - SA	REVISED -
DATE = 12/22/2021	DRAWN - AMN	REVISED -
	CHECKED - BHS	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)  
STRUCTURE NO. 099-0209

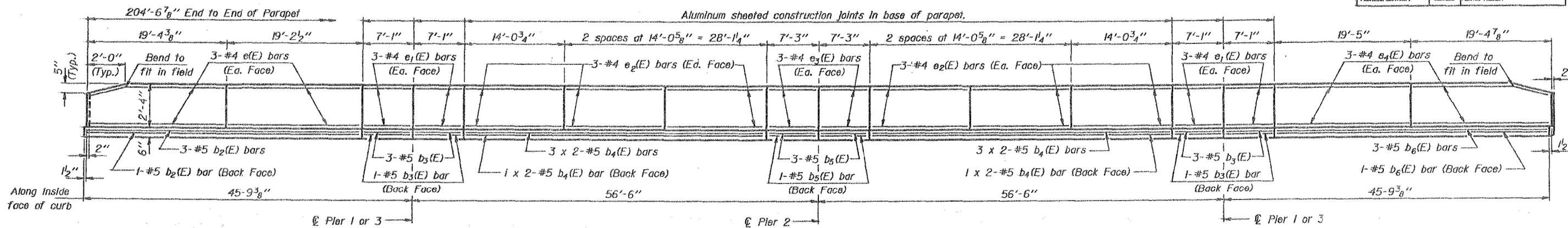
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	41
ILLINOIS			FED. AID PROJECT	

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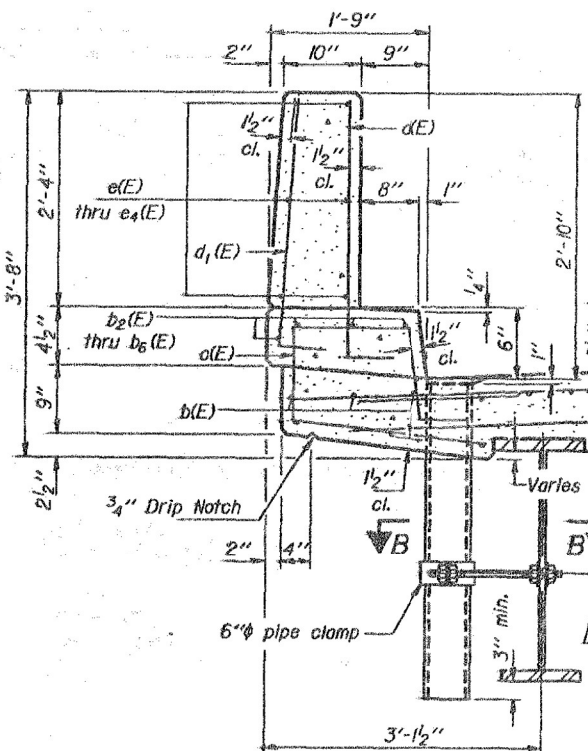
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SECTION	COUNTY	SHEET	NO.
		40	22
SHEET NO. 7		20 SHEETS	

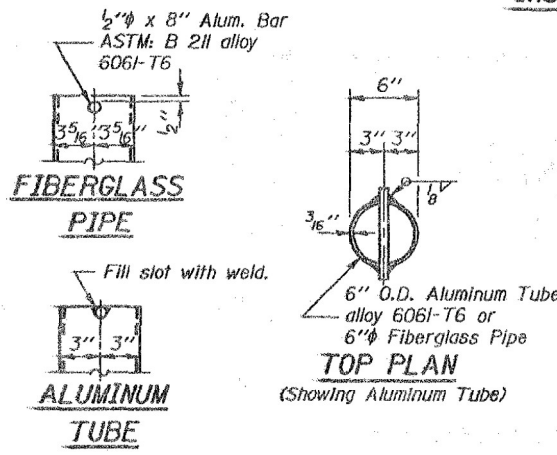


INSIDE ELEVATION OF PARAPET

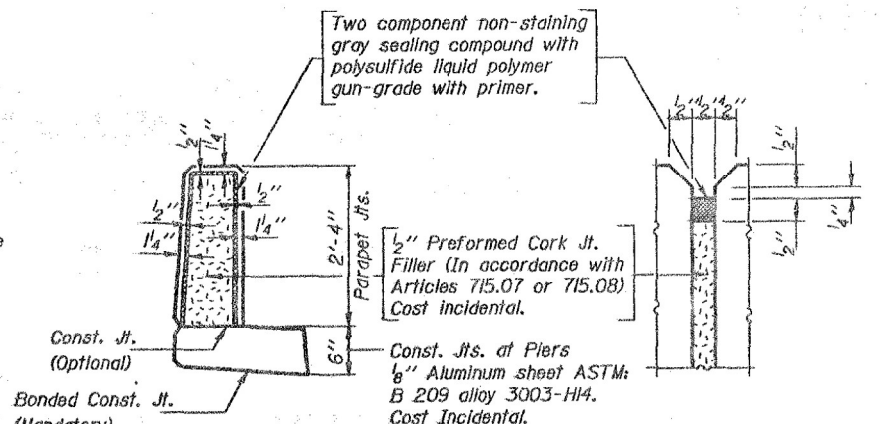
The minimum lap for #5 bars is 2'-2"



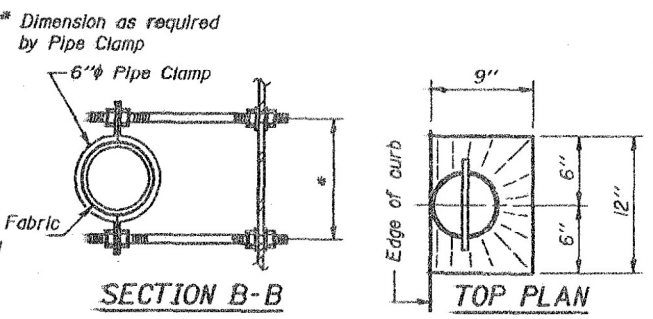
SECTION THRU PARAPET



TOP PLAN (Showing Aluminum Tube)



PARAPET JOINT DETAILS

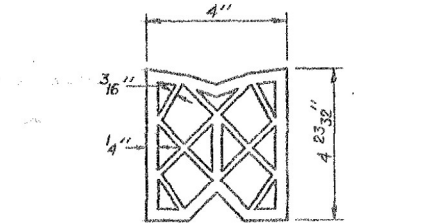


SECTION B-B

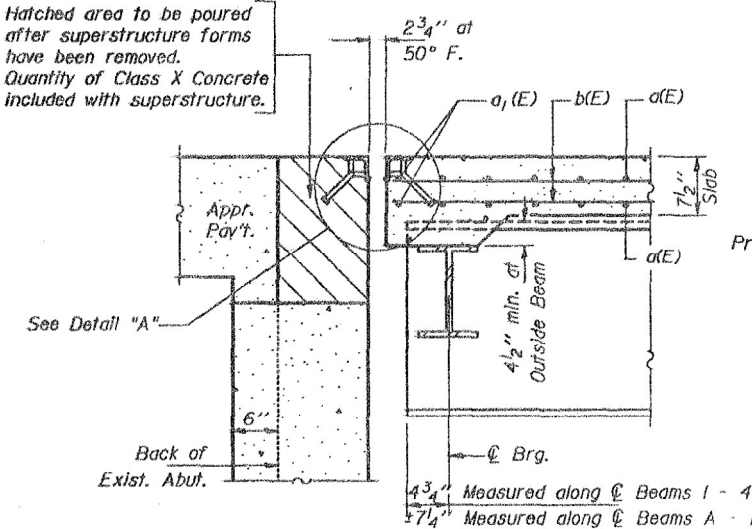
TOP PLAN

Hatched area to be poured after superstructure forms have been removed. Quantity of Class X Concrete included with superstructure.

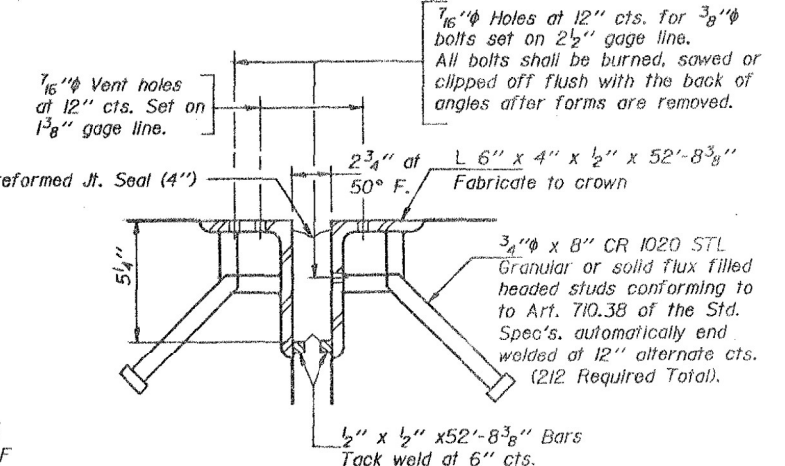
Notes: The exterior surfaces of Fiberglass Floor Drains shall be painted with one coat of Aluminum paint. Fiberglass pipe shall conform to ASTM: D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.



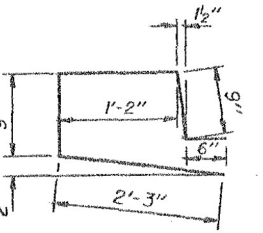
PREFORMED JOINT SEAL (4")



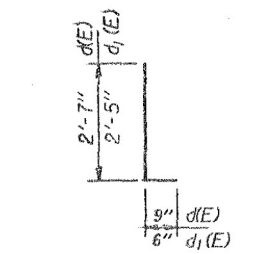
SECTION A-A



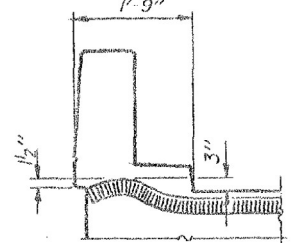
DETAIL "A"



BAR c(E)



BARS d(E) & d1(E)



END OF SEAL TREATMENT

SUPERSTRUCTURE  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	1194	#5	27'-10"	—
a1(E)	8	#5	28'-3"	—
a2(E)	700	#6	4'-0"	—
b(E)	406	#5	31'-1"	—
b1(E)	165	#6	18'-6"	—
b2(E)	8	#5	38'-3"	—
b3(E)	32	#5	3'-10"	—
b4(E)	32	#5	22'-2"	—
b5(E)	16	#5	7'-0"	—
b6(E)	8	#5	38'-5"	—
b7(E)	448	#5	27'-6"	—
c(E)	448	#4	5'-5"	L
d(E)	656	#4	3'-4"	L
d1(E)	410	#4	2'-11"	L
e(E)	24	#4	18'-11"	—
e1(E)	48	#4	6'-10"	—
e2(E)	72	#4	13'-9"	—
e3(E)	24	#4	7'-0"	—
e4(E)	24	#4	9'-1"	—
Reinforcement Bars (Epoxy Coated)			Lbs.	76,910
Class X Concrete			Cu. Yds.	343.6

Reinforcement bars designated (E) shall be epoxy coated. Bars indicated thus 3 x 2-#5 etc. indicates 3 lines of bars with 2 lengths per line.

SUPERSTRUCTURE DETAILS

F.A.U. RT. 0298 SEC. 99-2HBK-BY(82)

WILL COUNTY  
STA. 20+00.00

DESIGNED Mary H. Bloxder  
CHECKED Paul S. M...  
DRAWN D-herbert  
CHECKED MHB P.S.M.S.  
APPROVED [Signature] DIRECTOR OF HIGHWAYS

S-I-D 12-1-83

USER NAME =	DESIGNED - BHS	REVISED -
PLOT SCALE =	CHECKED - SA	REVISED -
PLOT DATE = 12/22/2021	DRAWN - AMN	REVISED -
	CHECKED - BHS	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)  
STRUCTURE NO. 099-0209

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	42
			CONTRACT NO. 62M50	

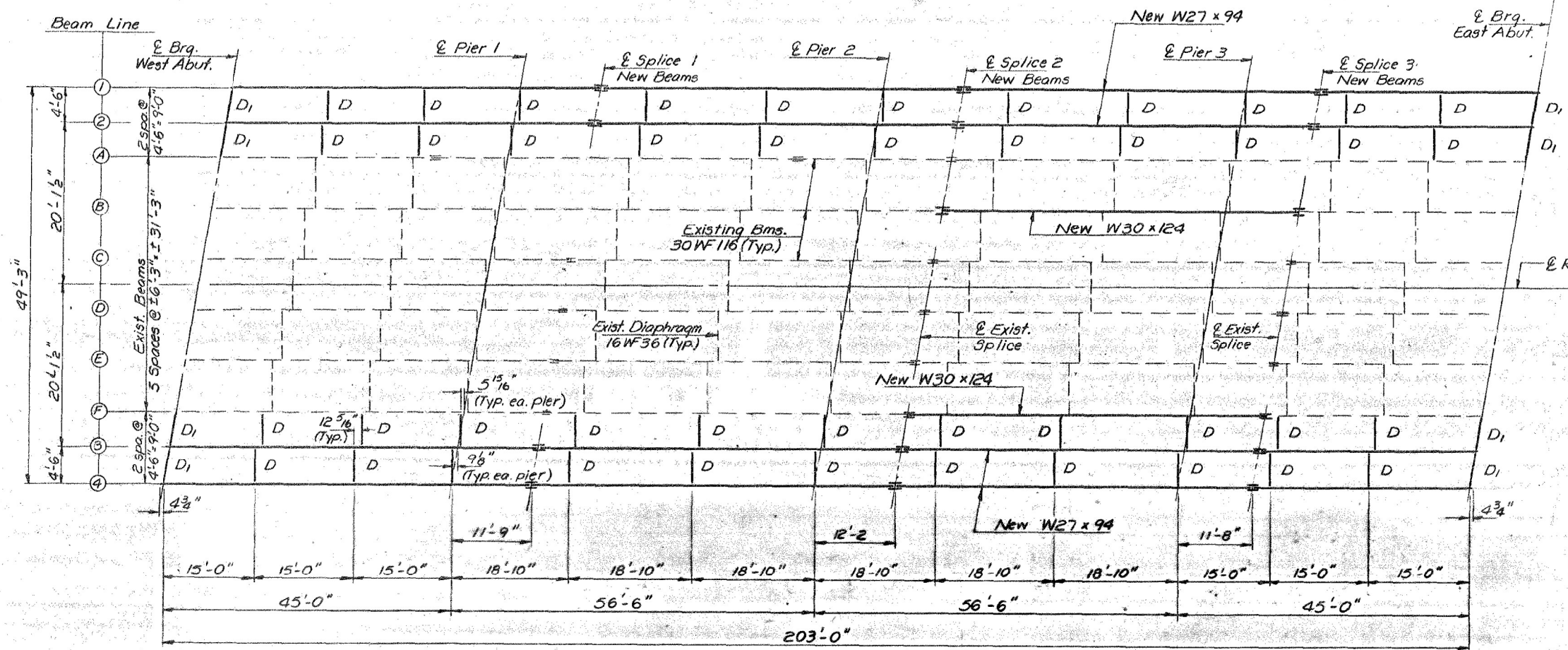
SHEET 19 OF 21 SHEETS

ILLINOIS FED. AID PROJECT

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	EDDGT	TOTAL SHEETS	SHEET NO.
11			40	23
SHEET NO. 8 20 SHEETS				



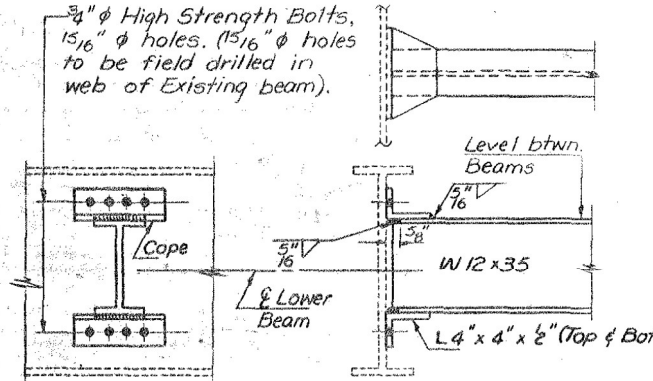
FRAMING PLAN

MOMENT TABLE BEAMS 1-4

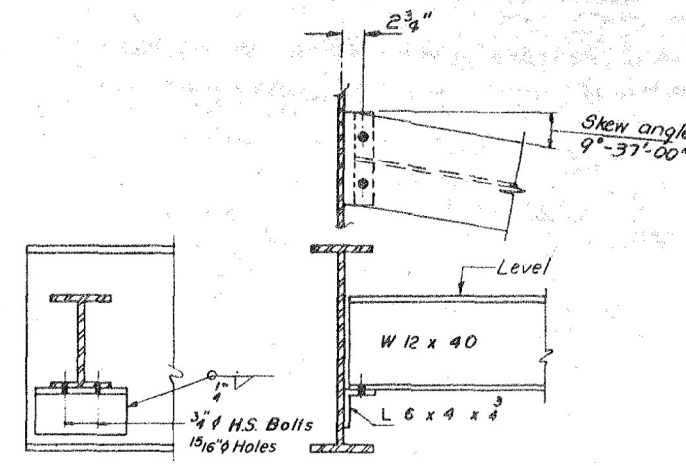
	0.4 Sp. for 4	Pier 1 or 3	0.5 Sp. 2 or 3	Pier 2
I (in <sup>4</sup> )	3270	3270	3270	3270
Q (kl)	.744	.744	.744	.744
M <sub>D</sub> (k)	103.6	192.9	100.2	200.3
M <sub>L</sub> (k)	177.4	147.3	166.5	156.6
Imp. (k)	52.1	42.0	51.5	44.6
M <sub>TOTAL</sub> (k)	333.1	382.2	338.2	401.5
f <sub>s</sub> (ksi)	16.4	18.9	16.7	19.8

REACTION TABLE BEAMS 1-4

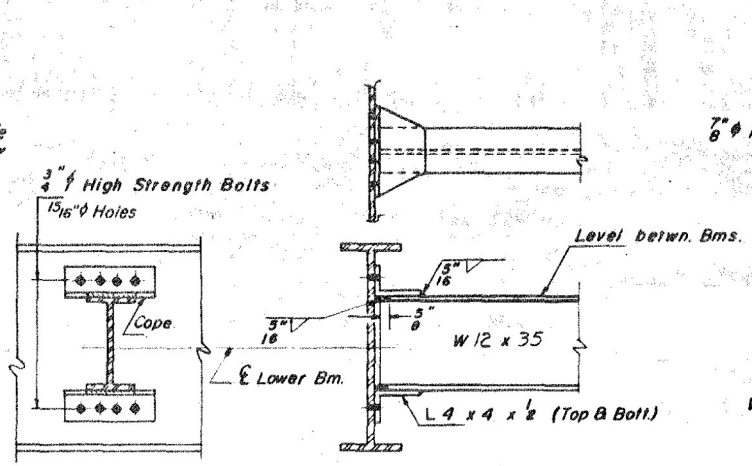
	Abuts.	Piers 1 & 3	Pier 2
R <sub>D</sub> (k)	12.4	41.9	42.3
R <sub>L</sub> (k)	22.2	27.8	27.8
Imp. (k)	6.5	7.9	7.9
R <sub>TOTAL</sub> (k)	41.1	77.6	78.0



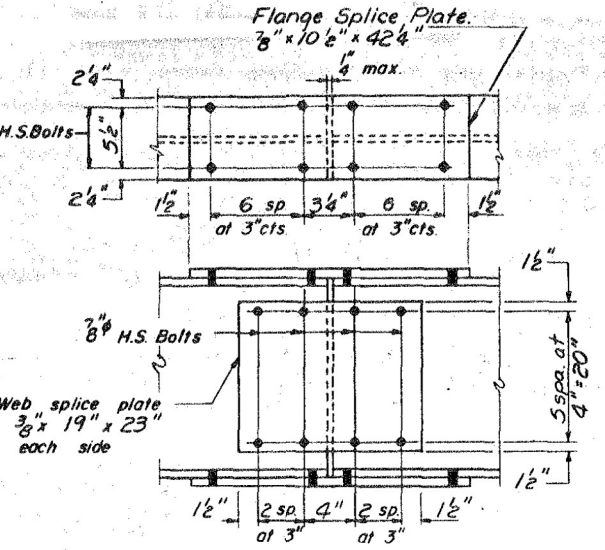
DIAPHRAGM D (Showing connection to Existing Beams)



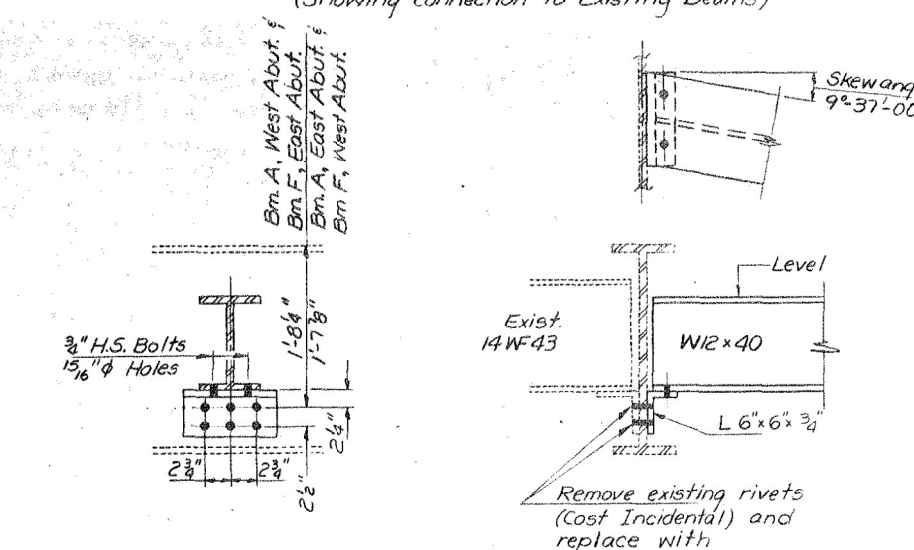
DIAPHRAGM D1 (Showing connection to New Beams)



DIAPHRAGM D (Showing connection to New Beams)



SPLICE - BEAMS 1 THRU 4



DIAPHRAGM D1 (Showing connection to Existing Beams)

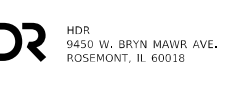
DESIGNED Mary H. Blocher  
CHECKED Paul S. McEany  
DRAWN D-herbert  
CHECKED MHB P.S.M.  
APPROVED James J. Kaspar  
DIRECTOR OF HIGHWAYS

TOP OF FLANGE ELEVATIONS BEAMS 1-4

	W. Abut.	Pier 1	Splice #1	Pier 2	Splice #2	Pier 3	Splice #3	E. Abut.
Beam 1	601.74	601.98	602.04	602.17	602.21	602.16	602.14	602.10
Beam 2	601.80	602.04	602.10	602.24	602.28	602.23	602.21	602.18
Beam 3	601.74	602.00	602.07	602.23	602.27	602.24	602.24	602.22
Beam 4	601.66	601.93	601.99	602.16	602.20	602.17	602.17	602.15

Note: Total No. of D Diaphragms Required = 44  
Total No. of D1 Diaphragms Required = 8

T-2-D 8-30-80



USER NAME =	DESIGNED = BHS	REVISED =
PLOT SCALE =	CHECKED = SA	REVISED =
PLOT DATE = 12/22/2021	DRAWN = AMN	REVISED =
	CHECKED = BHS	REVISED =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)  
STRUCTURE NO. 099-0209

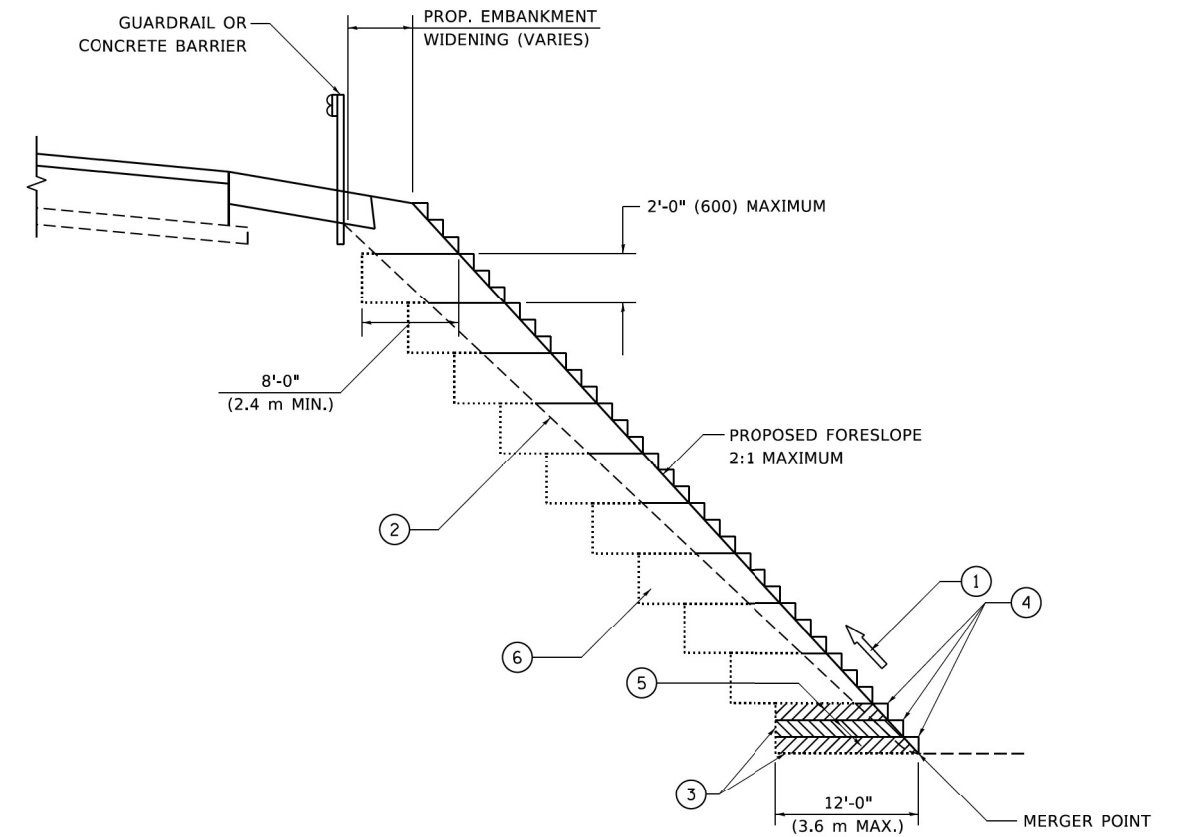
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	43
CONTRACT NO. 62M50				

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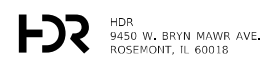
**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

MODEL: Default; FILE: \\miller.pw.com\com\dot\illinois.gov\pww\DOT\Documents\DOT\_Offices\Bldg\1\Projects\1615\1615\1615.dgn



USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN - CADD	REVISED -
PLOT SCALE = 50,0000' / 1"	CHECKED - S.E.B.	REVISED -
PLOT DATE = 3/27/2019	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL  
FOR EMBANKMENT WIDENING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

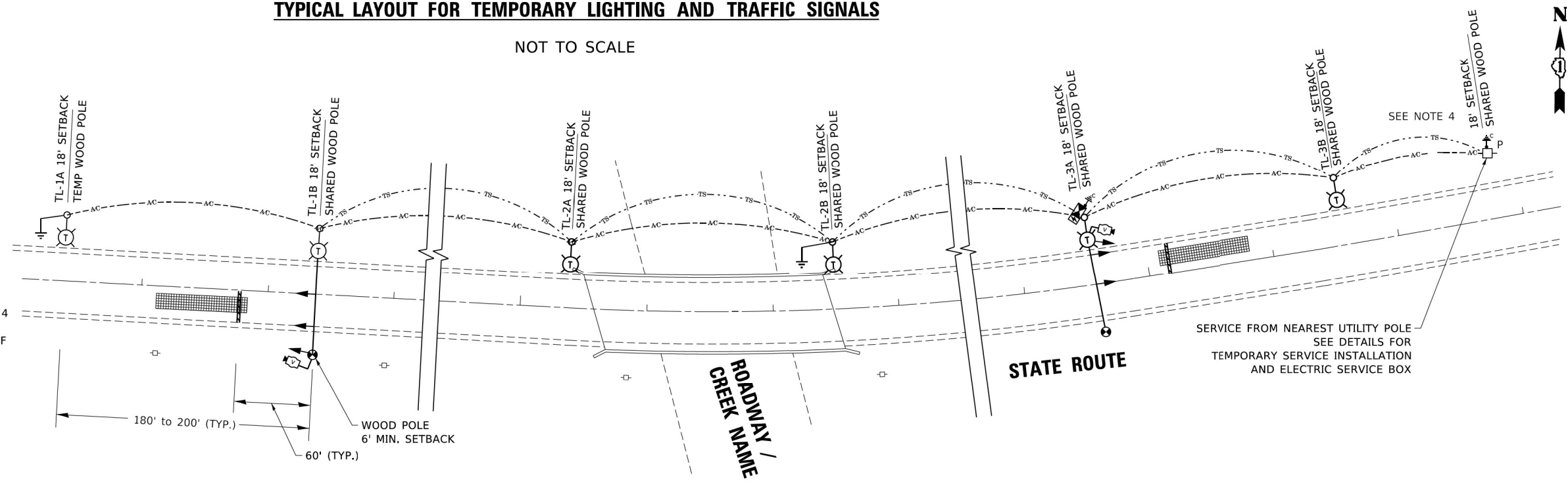
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	46
<b>BD-51</b>			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				

# TYPICAL LAYOUT FOR TEMPORARY LIGHTING AND TRAFFIC SIGNALS

NOT TO SCALE

## LEGEND

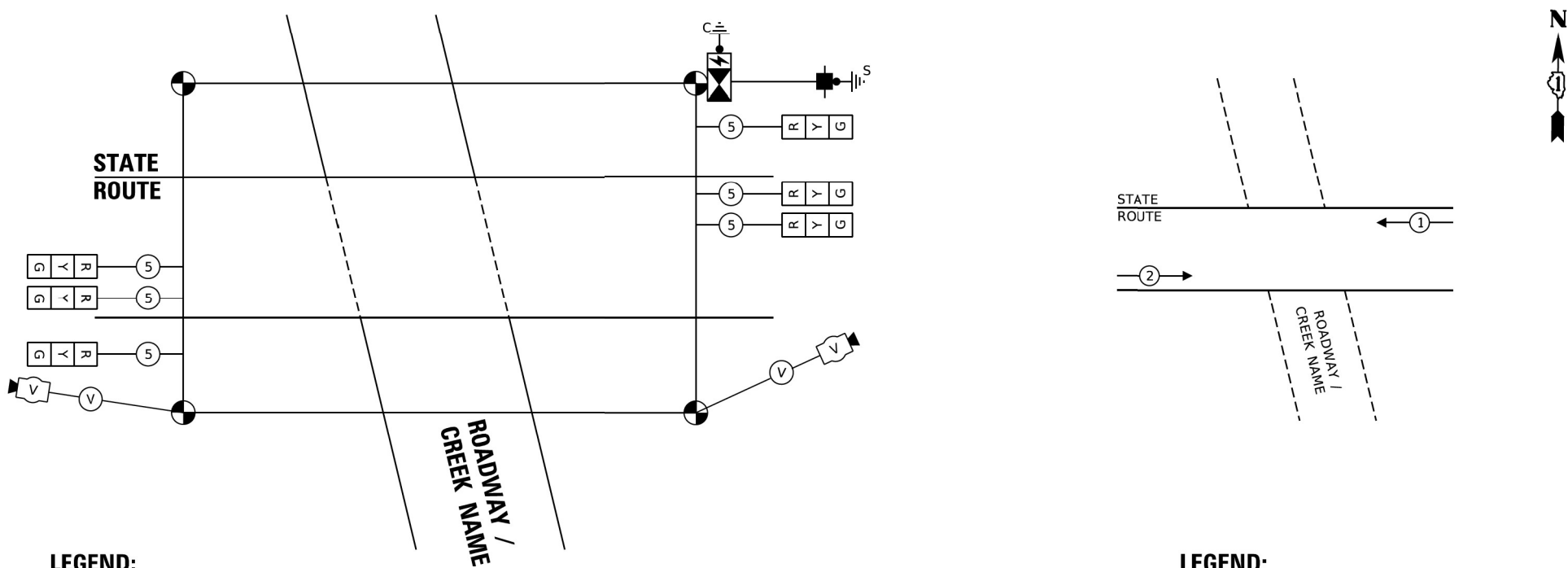
- 26,000-30,000 LUMENS, 120V, MCIII LED WITH PHOTO CELL 15' MA, 50' MH ON WOOD POLE, CLASS 4
- 3-1/C#2, AFRIAL CABLE WITH MESSENGER WIRE UNLESS OTHERWISE NOTED
- TL-1A** TEMPORARY LIGHTING UNIT NUMBER - ONE CIRCUIT A
- GROUND ROD 5/8" DIA. x 10'
- COMBINATION LIGHTING AND TRAFFIC POLE MOUNTED ELECTRICAL SERVICE BOX
- TEMPORARY WOOD POLE - NOMINAL 60 FT., CLASS 4
- TEMPORARY LED TRAFFIC SIGNAL HEAD, NUMBER OF SECTION AND DISPLAY AS REQUIRED.
- TEMPORARY TRAFFIC SIGNAL SPAN WIRE, NUMBER OF CONDUCTORS AS REQUIRED.
- TEMPORARY TRAFFIC CONTROLLER WITH UPS AND BOTTOM PLATE MOUNTED TO WOOD POLE
- TEMPORARY VIDEO DETECTOR



## GENERAL NOTES:

1. CONTACT TO THE ELECTRIC UTILITY SHALL BE INITIATED BEFORE THE PRECONSTRUCTION MEETING, AND DOCUMENTATION OF CONTACT 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. UNLESS OTHERWISE INDICATED, AND EXCEPT AS OTHERWISE NOTED, THIS STANDARDIZED LAYOUT SHALL APPLY FOR BRIDGES NOT EXCEEDING A 250-FOOT SPAN. FOR BRIDGE SPANS IN EXCESS OF 250 FEET, THE POLES IMMEDIATELY ADJACENT TO THE BRIDGE SHALL BE 100-FOOT POLES (90-FOOT MOUNTING HEIGHT), WITH 56,000-60,000 LUMENS TYPE III LED HIGH-MAST LUMINAIRES AS APPROVED BY THE ENGINEER.
3. THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES, TRAFFIC SIGNALS, AND COMBINED SERVICE. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED
4. 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.
5. THE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATION SHALL SHARE ANY COMMON ELEMENTS SUCH AS WOOD POLES, ELECTRICAL SERVICE, ELECTRIC SERVICE BOX, CABLE, ETC. THE CONTRACTOR SHALL COORDINATE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATIONS.
6. THE LIGHT POLE SETBACK FROM THE EDGE OF TRAVEL PAVEMENT SHALL BE 18 FT. UNLESS THE LIGHT POLE IS BEHIND GUARDRAIL. THE LIGHT POLES INSTALLED BEHIND THE GUARDRAIL OR BARRIER WALL SHOULD HAVE AT LEAST 8 FT. SETBACK FROM THE BACK OF THE SHOULDER AND OR AS DIRECTED BY THE ENGINEER.
7. EACH LIGHTING UNIT SHALL BE CONTROLLED BY A PHOTO CELL MOUNTED ON EACH LUMINAIRE WITH THE LIGHTING CIRCUIT FED FROM THE TEMPORARY SERVICE DISCONNECT BOX. OTHER MEANS OF LUMINAIRE CONTROL CAN BE CONSIDERED IF APPROVED BY THE ENGINEER.
8. 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.
9. ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.
10. THIS LAYOUT IS ONLY FOR SINGLE LANE STAGING WITHOUT PRIVATE DRIVEWAYS WITHIN SINGLE LANE WORK ZONE.

## CABLE PLAN AND PHASE DESIGNATION DIAGRAM (TYPICAL)



## LEGEND:

- TEMPORARY VIDEO / RADAR DETECTOR
- TEMPORARY SIGNAL HEAD 12" SECTION.
- CABLE INDICATES NUMBER OF CONDUCTORS IN CABLE ALL CONDUCTORS TO BE NUMBER 14 AWG UNLESS OTHERWISE NOTED.

## LEGEND:

- NUMBER ASSOCIATED WITH PROTECTED PHASE

MODEL: Default: FILE: \\miller\pwwork\pwwork\Documents\DOT\_Offices\IDistrict\_1\Projects\IDHS\027231\CAD\Drawings\CD\sheet\ba805.dwg

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

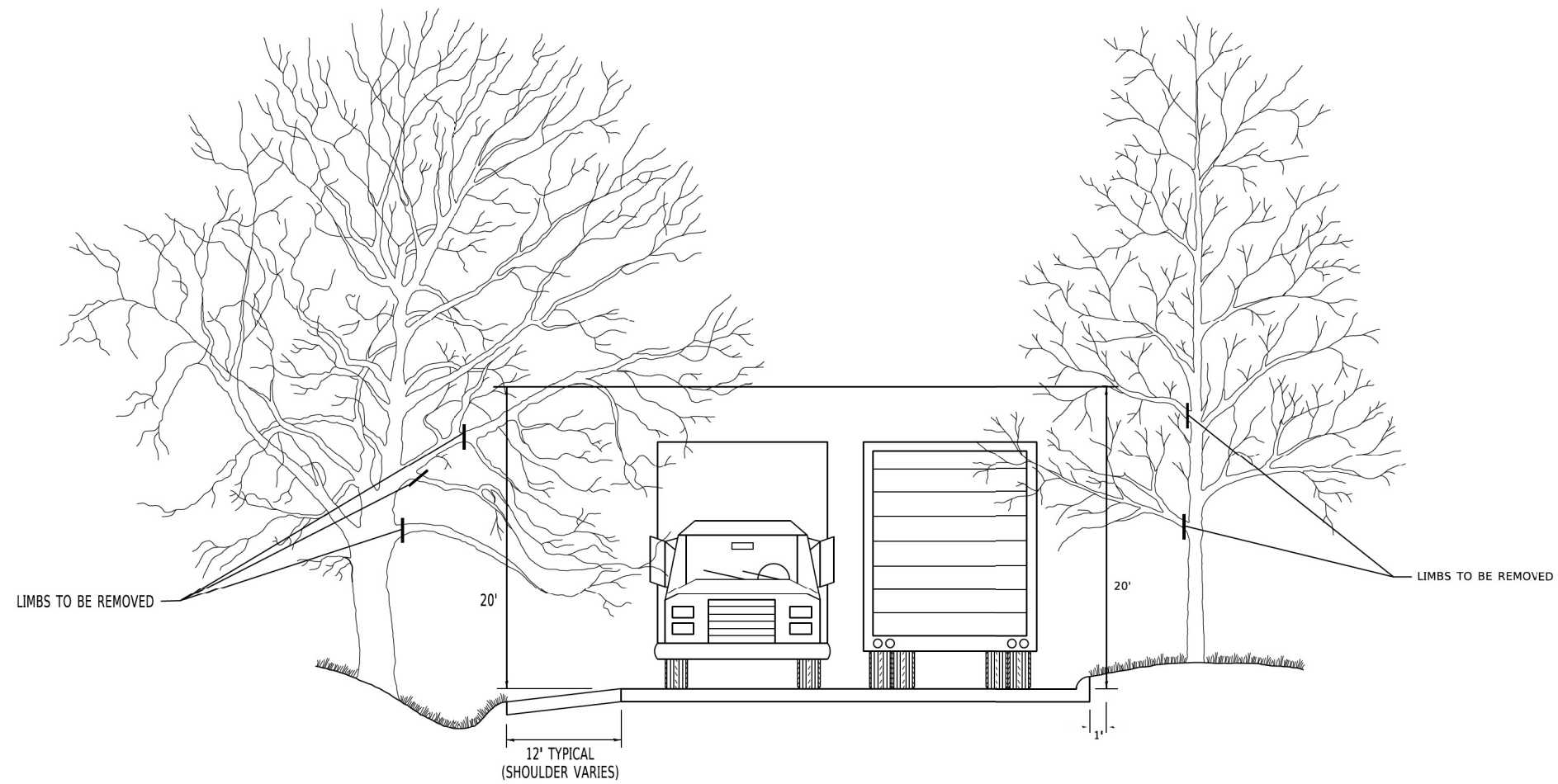
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PLOT DATE = 8/18/2020	CHECKED -	REVISED -
	DATE - 01/14/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING</b>			
SCALE: NONE	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.I. RTE. 55	SECTION 2020-163-BR	COUNTY WILL	TOTAL SHEETS 65	SHEET NO. 47
BE-805		CONTRACT NO. 62M50		
ILLINOIS FED. AID PROJECT				





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

USER NAME = footemj  
 PLOT SCALE = 50,0000' / 1"  
 PLOT DATE = 3/11/2019

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED - R. BORO 10-31-06  
 REVISED -  
 REVISED -  
 REVISED -

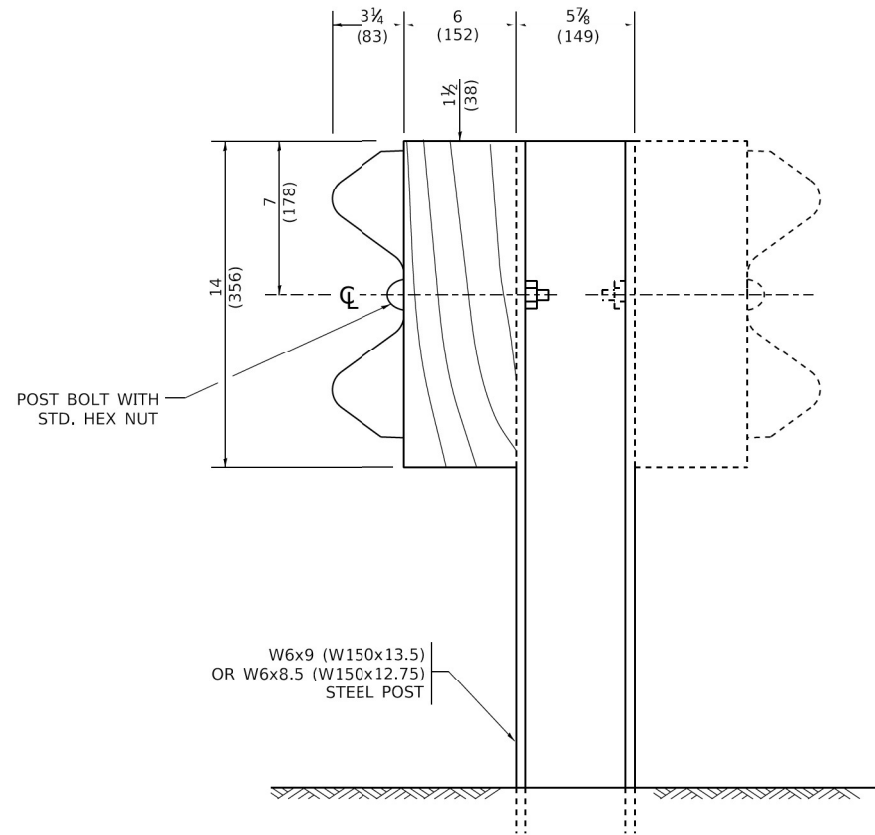
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PRUNING FOR SAFETY AND  
 EQUIPMENT CLEARANCE**

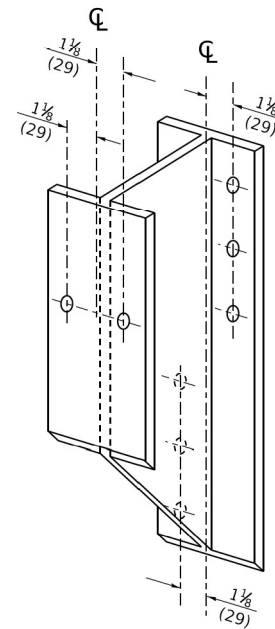
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>BM-20</b>			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				

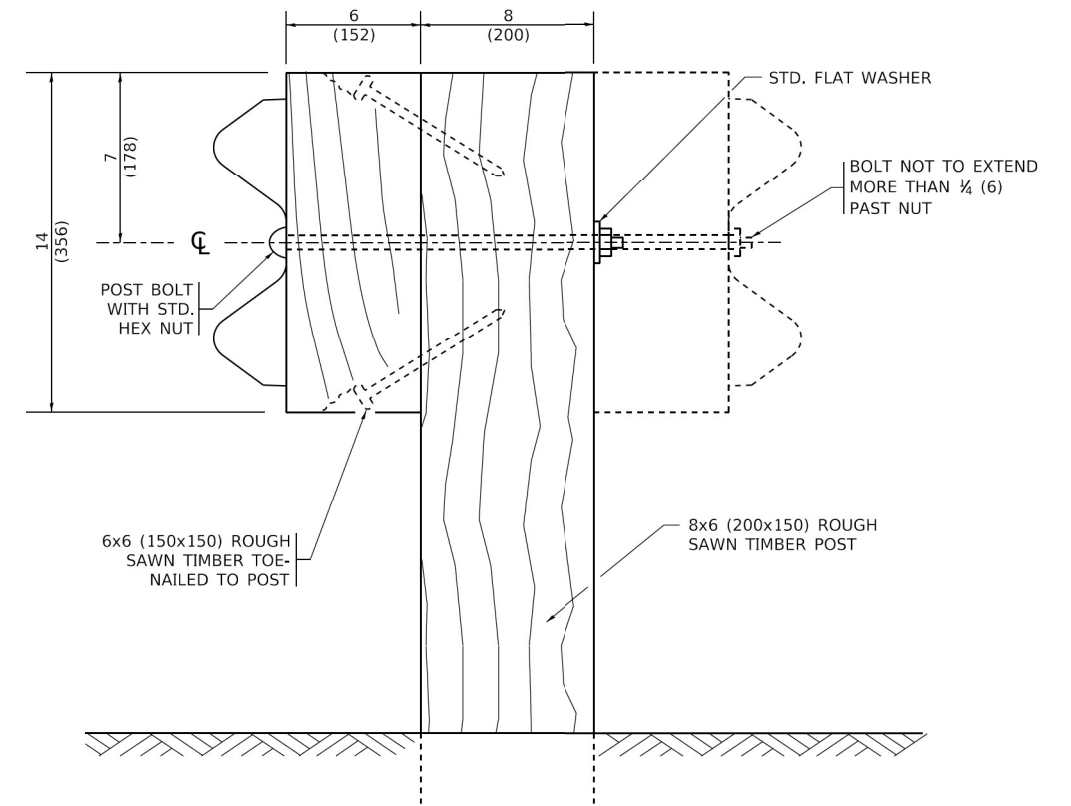




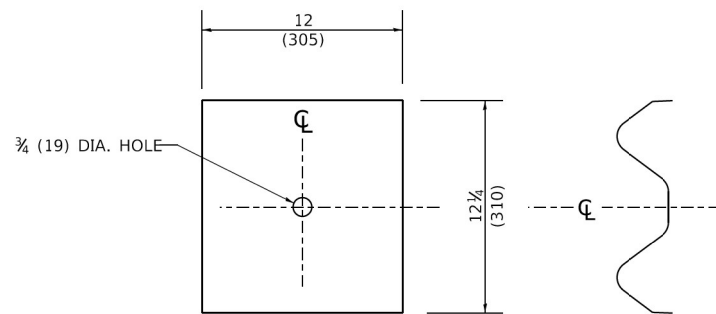
**STEEL POST CONSTRUCTION**



**STEEL BLOCK-OUT DETAIL**

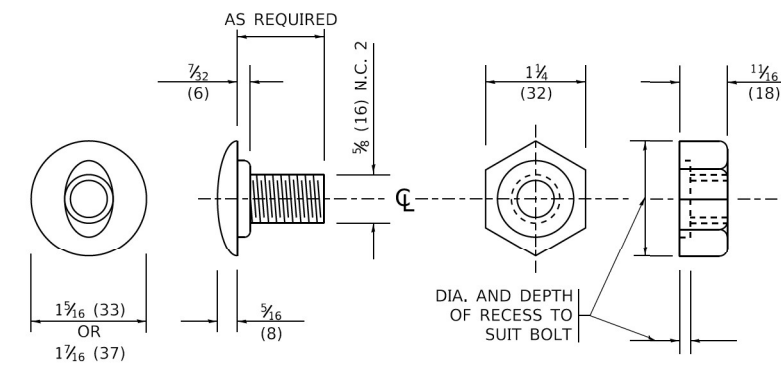


**WOOD POST CONSTRUCTION**



**NOTE:**  
 PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.

**PLATE A**



**POST OR SPLICE BOLT & NUT**

MODEL Default: FILE Name: p:\alphamcom.edu\illinois.gov\PIV\DOT\Documents\DOT\_Offices\District\_1\Projects\IHS\427231\CADD\ba\Cd\sheet\bm21.dgn



HDR  
 9450 W. BRYN MAWR AVE.  
 ROSEMONT, IL 60018  
 USER NAME = footemj  
 PLOT SCALE = 50,0000 ' / ft.  
 PLOT DATE = 3/11/2019

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
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 REVISED -

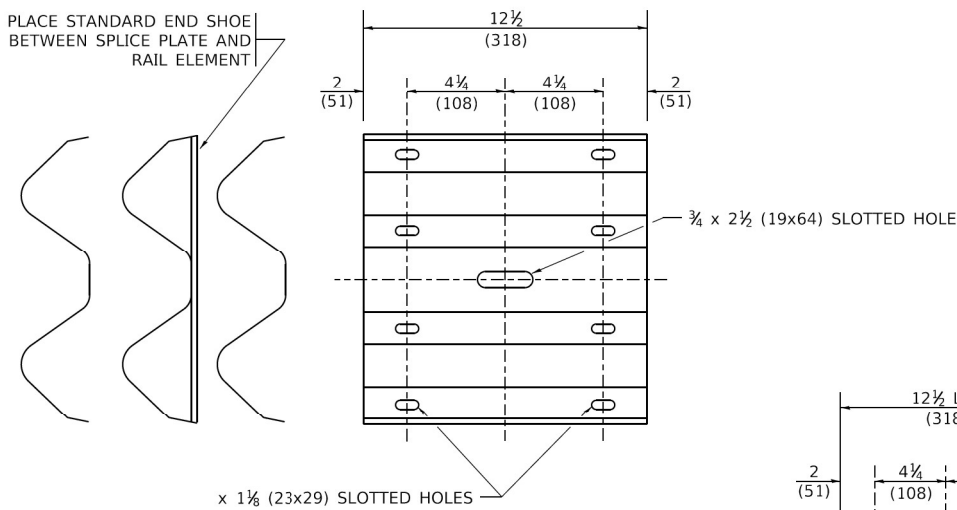
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVE AND REERECT  
 STEEL PLATE BEAM GUARDRAIL**

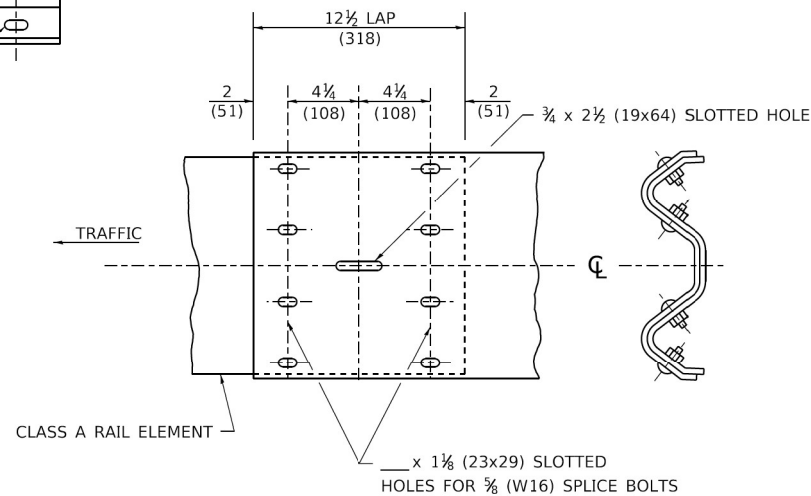
SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	50
<b>BM-21</b>			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				

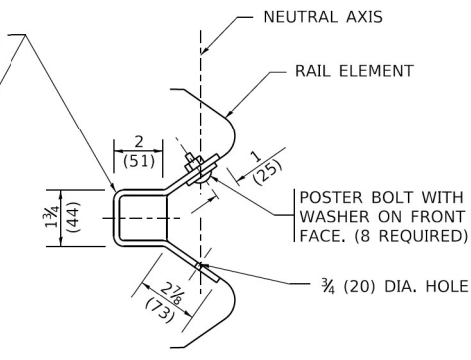
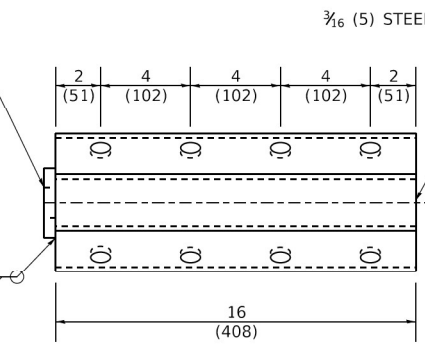
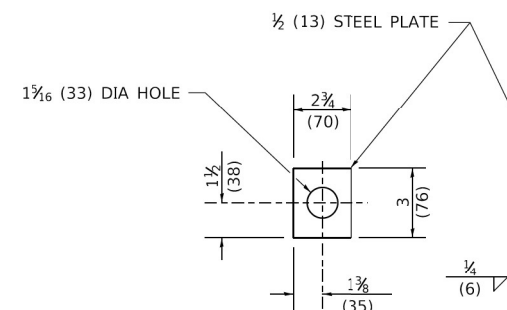
PLACE STANDARD END SHOE BETWEEN SPLICE PLATE AND RAIL ELEMENT



**SPLICE PLATE**

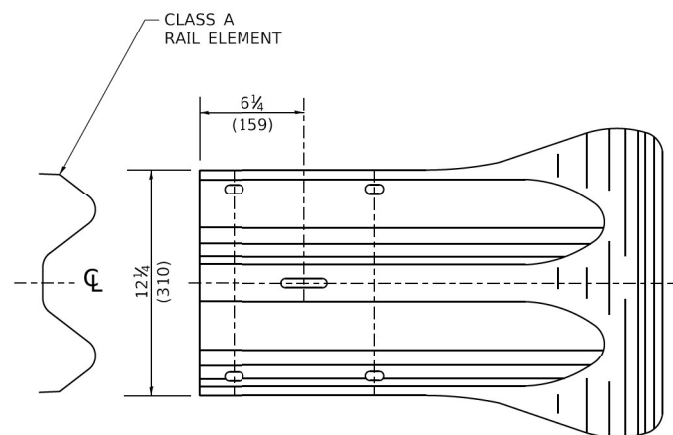
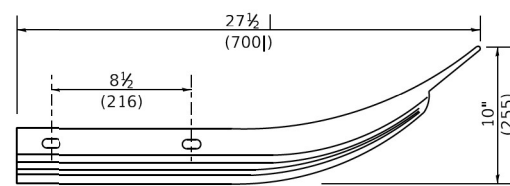


**RAIL ELEMENT SPLICE**

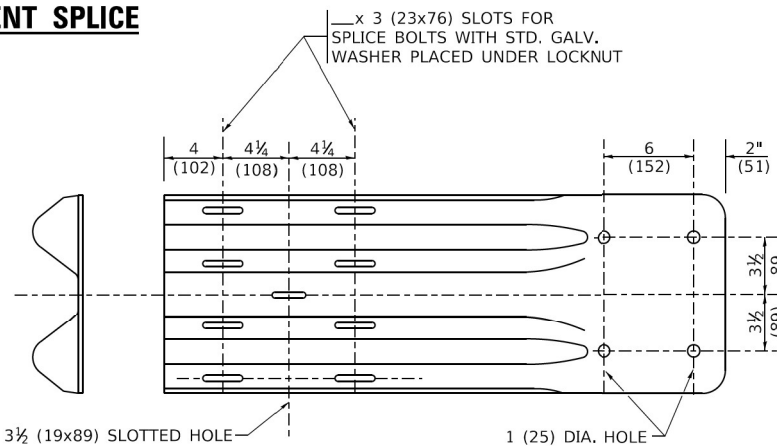


**NOTE:**  
ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

**ANCHORE PLATE T DETAILS**



**END SECTION**

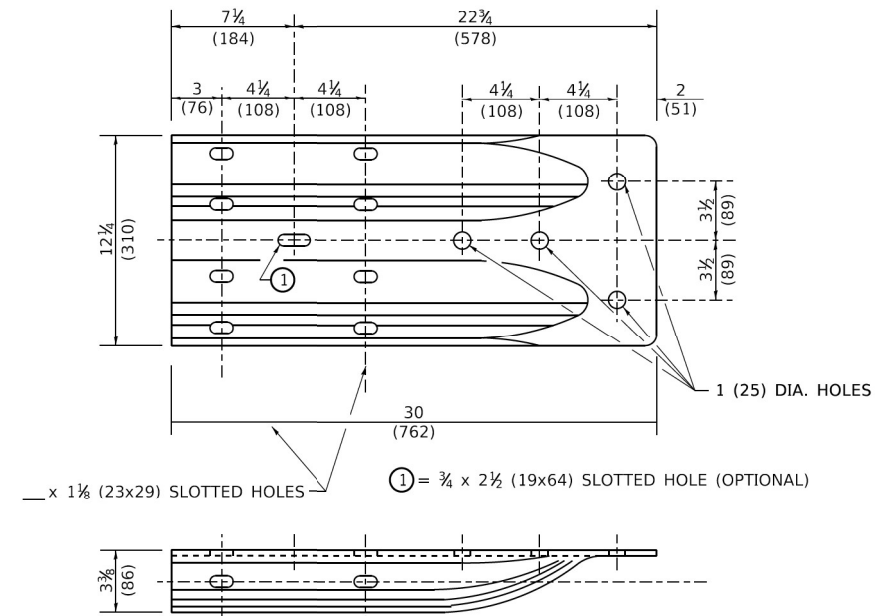


**END SHOE**

**NOTE:**  
WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW GUARDRAIL MOVEMENT.

THE STANDARD END SHOE SHALL BE ATTACHED TO THE CONCRETE WITH PRE-DRILLED OR SELF-DRILLING ANCHOR BOLTS. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

EXTERNALLY THREADED STUDS PROTRUDING FROM THE SURFACE OF THE CONCRETE WILL NOT BE PERMITTED.



**ALTERNATE END SHOE**

MODEL: Default: FILE: \\mtrc-pw\p1\dot\Documents\DOT\_Offices\Bartlett\_1\Projects\16154272-2A\CAD\Drawings\CD\Sheet\bm21.dwg

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

USER NAME = footemj  
DESIGNED -  
DRAWN -  
PLOT SCALE = 50,0000 ' / ft.  
PLOT DATE = 3/11/2019

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL**

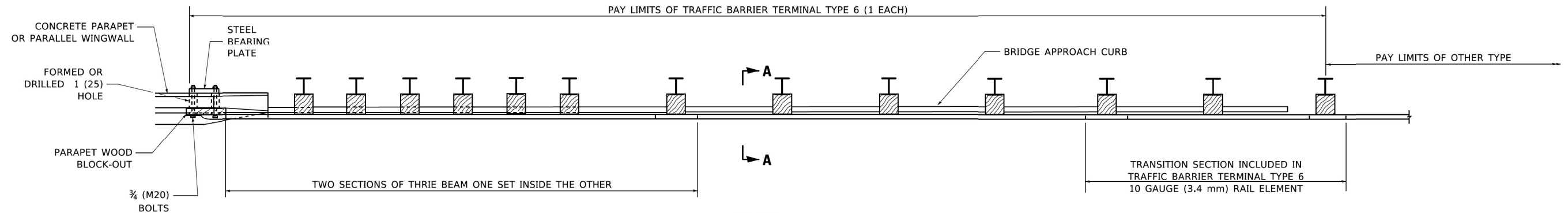
SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	51
BM-21		CONTRACT NO. 62M50		
ILLINOIS		FED. AID PROJECT		

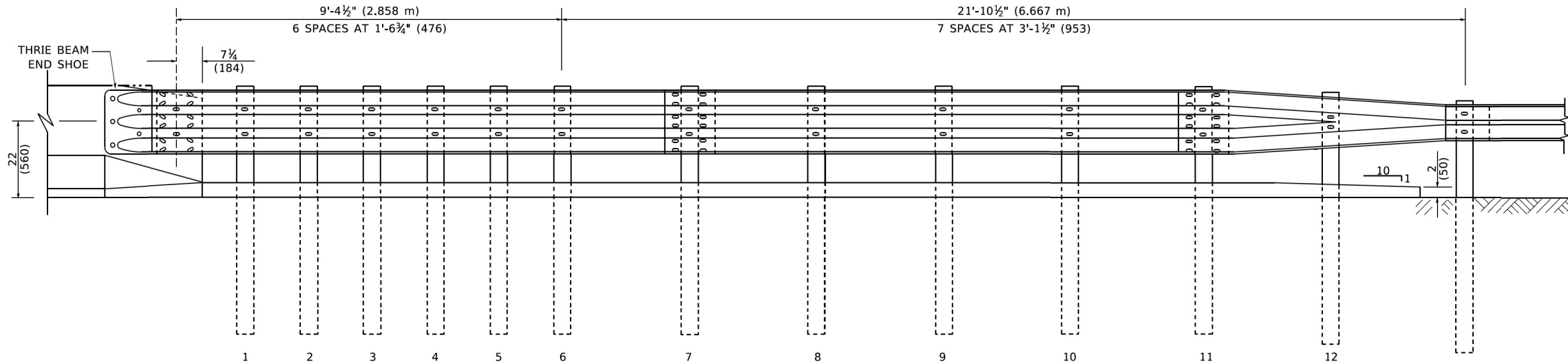


**PARAPET OR WINGWALL**

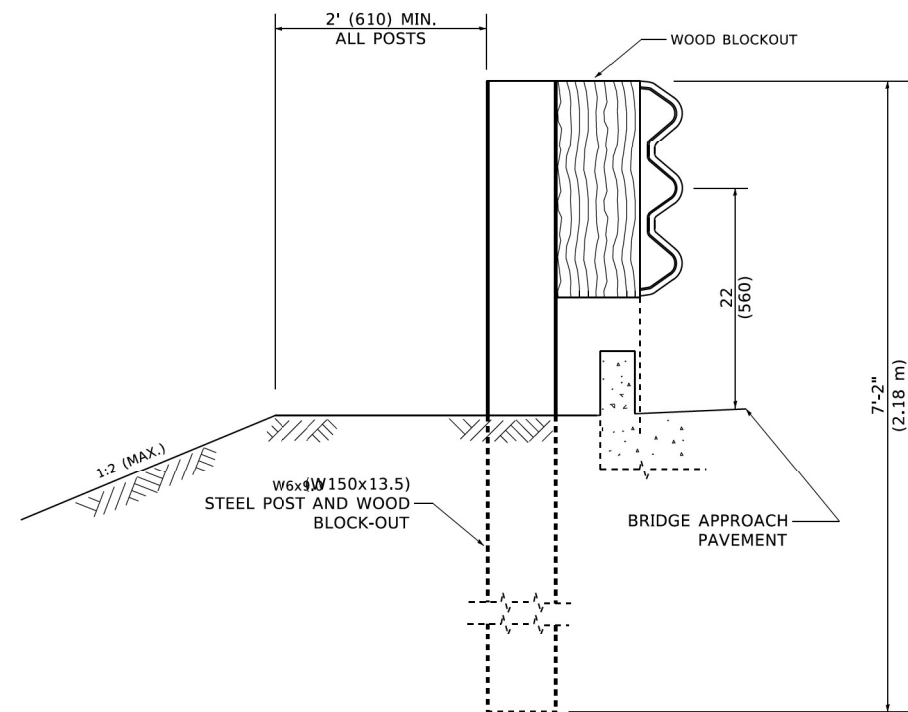
PAY LIMITS OF TRAFFIC BARRIER TERMINAL TYPE 6 (1 EACH)



**PLAN**



**ELEVATION**



**SECTION A-A**

**GENERAL NOTES**

TO BE USED WHEN CONNECTING TO EXISTING GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.

SEE STANDARD 630001 FOR DETAILS OF GUARDRAIL NOT SHOWN.

THRIE BEAM RAIL SHALL BE BOLTED TO BLOCK-OUT AT ALL POSTS.

SEE STANDARD 420401 FOR DETAILS OF BRIDGE APPROACH PAVEMENT.

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ILLINOIS STATE STANDARD:  
631031-05 02/19/2008

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPE 6 TERMINAL  
FOR USE WITH 21" HIGH SPBGR

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	53
<b>BM 22</b>			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				

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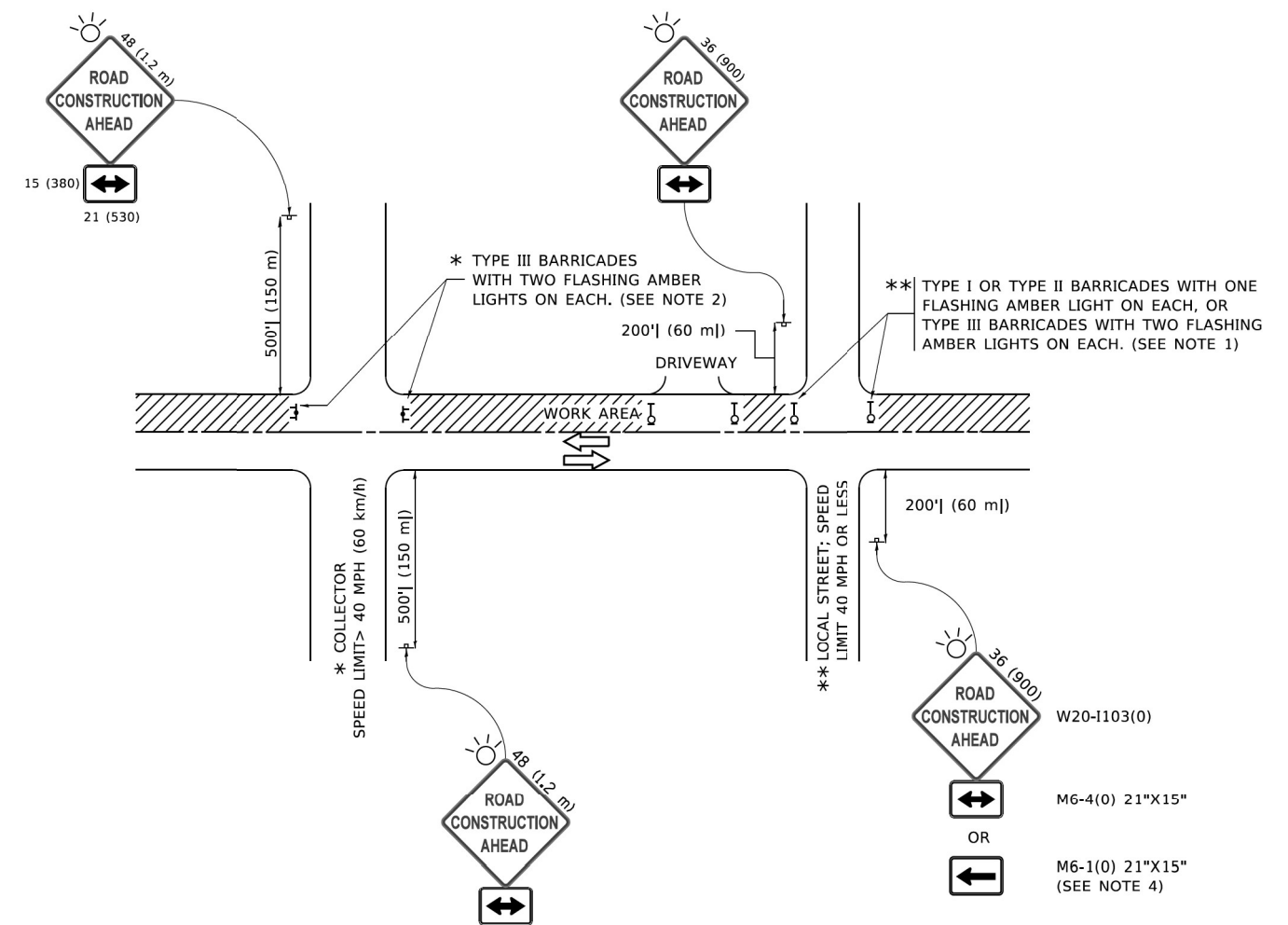
**HDR**  
HDR  
9450 W. BRYN MAWR AVE.  
ROSEMONT, IL 60018

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PLOT SCALE = 50,0000 ' / ft.	DRAWN -	REVISED - 631031-05 02/19/2008
PLOT DATE = 3/11/2019	CHECKED -	REVISED -
	DATE -	REVISED -









**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: Default; FILE NAME: p:\11084818\BID\NTEG\Illinois.gov\PIV\DOT\Documents\DOT\_Offices\Dist\ctc\_1\Projects\Sub\5223\21\CADD\Nal\CAD\Sheet\ctc10.dgn



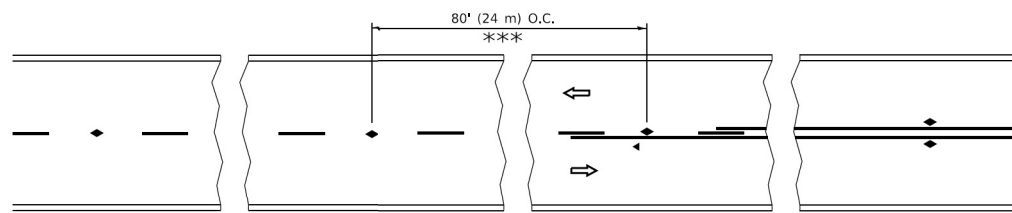
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PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

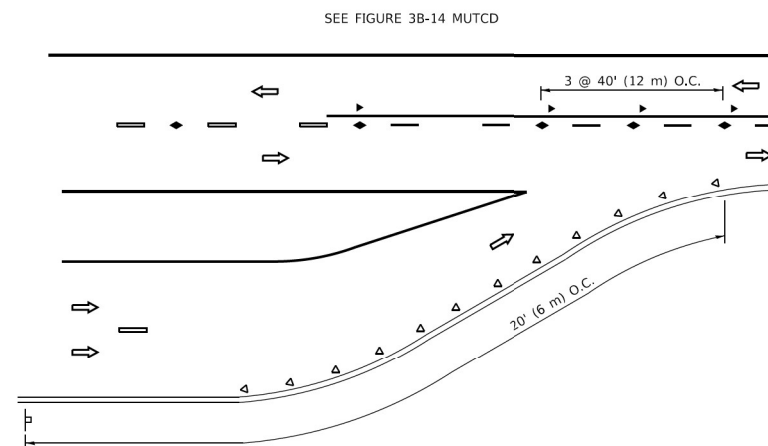
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				

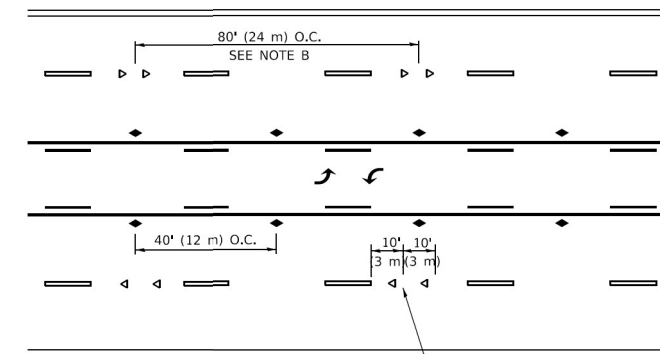


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

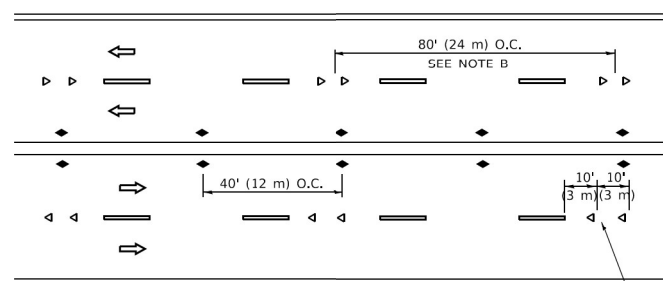
**TWO-LANE/TWO-WAY**



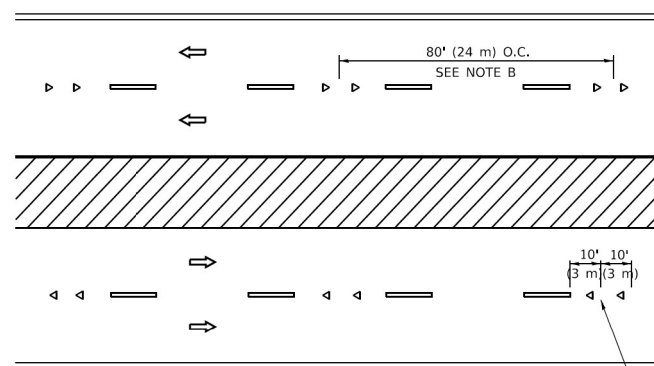
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

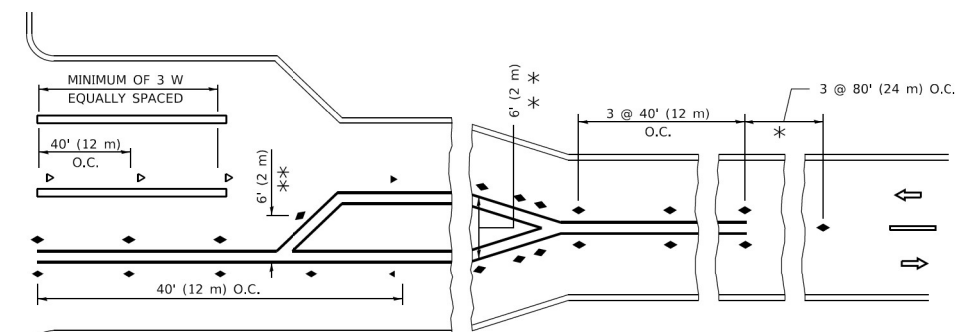
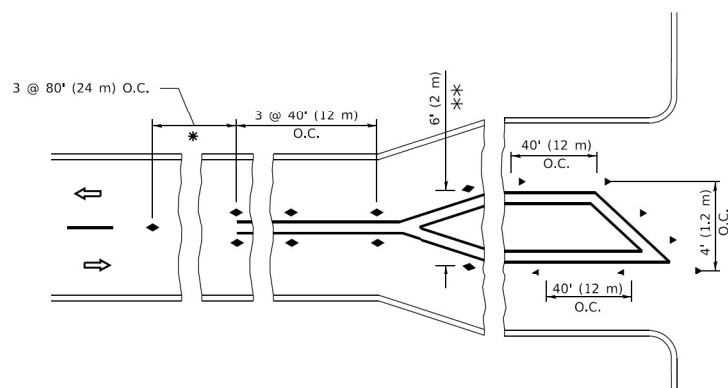
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

**DESIGN NOTES**

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

**TURN LANES**

All dimensions are in inches (millimeters) unless otherwise shown.

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

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PLOT DATE = 3/4/2019	CHECKED -
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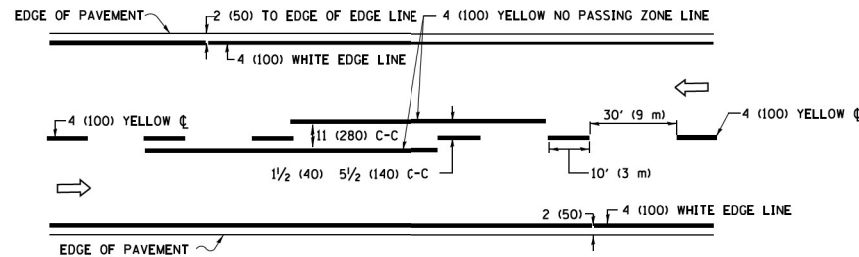
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DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

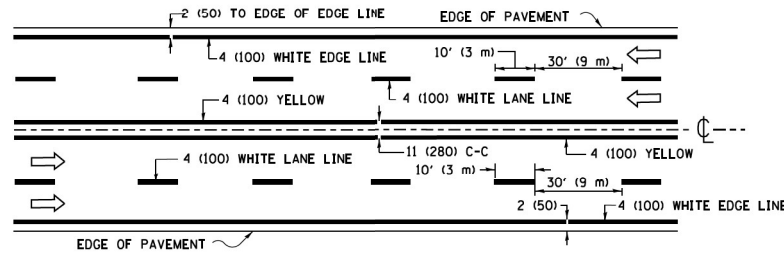
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

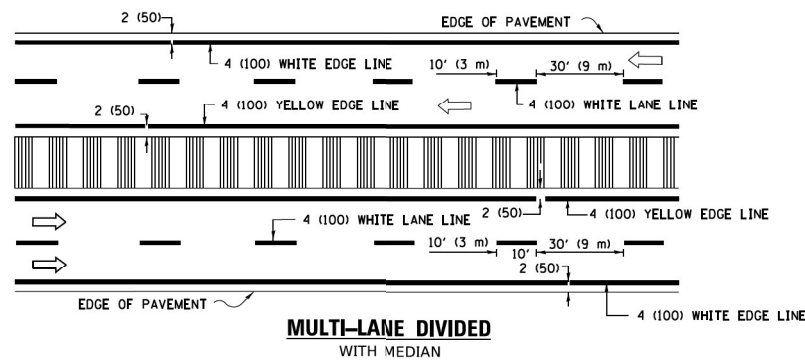
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	57
TC-11			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

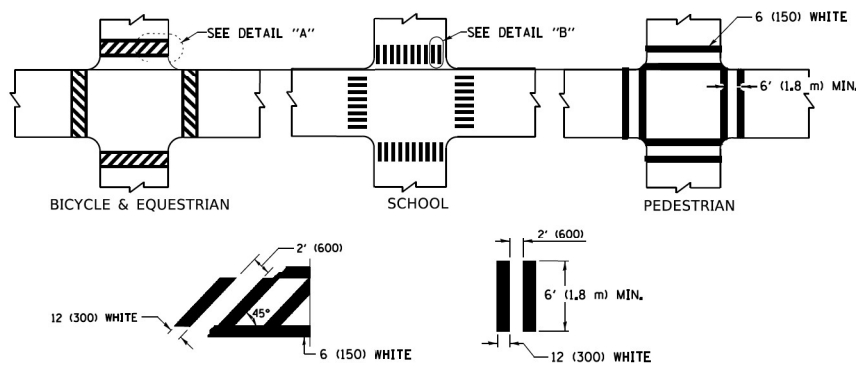


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

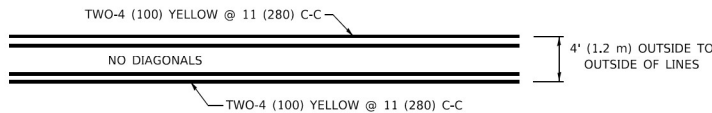
**TYPICAL LANE AND EDGE LINE MARKING**



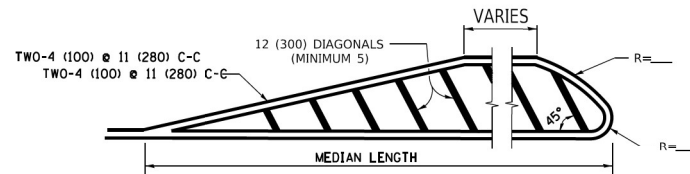
**DETAIL "A"      DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

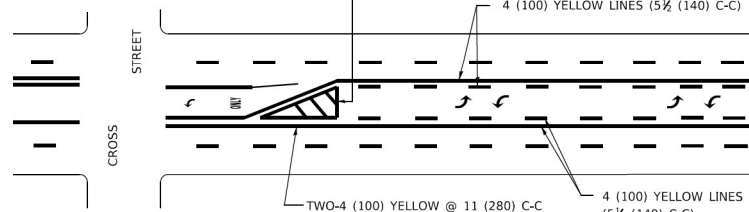


**4' (1.2 m) WIDE MEDIANS ONLY**



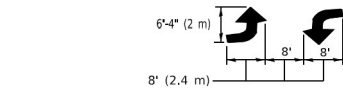
**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



**MEDIAN WITH TWO-WAY LEFT TURN LANE  
TYPICAL PAINTED MEDIAN MARKING**

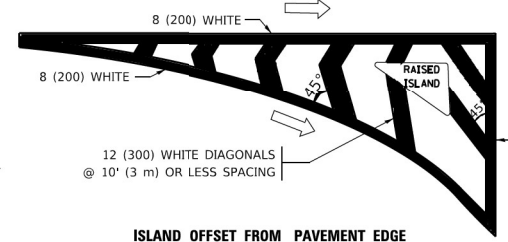
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



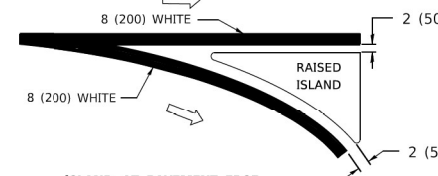
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

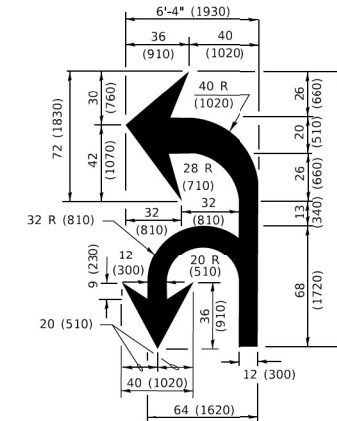


**ISLAND OFFSET FROM PAVEMENT EDGE**

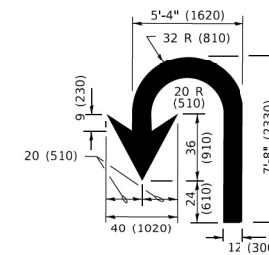


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**  
\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 2' (600) APART 2' (600) APART	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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9450 W. BRYN MAWR AVE.  
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USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 50,0000 1/1	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15
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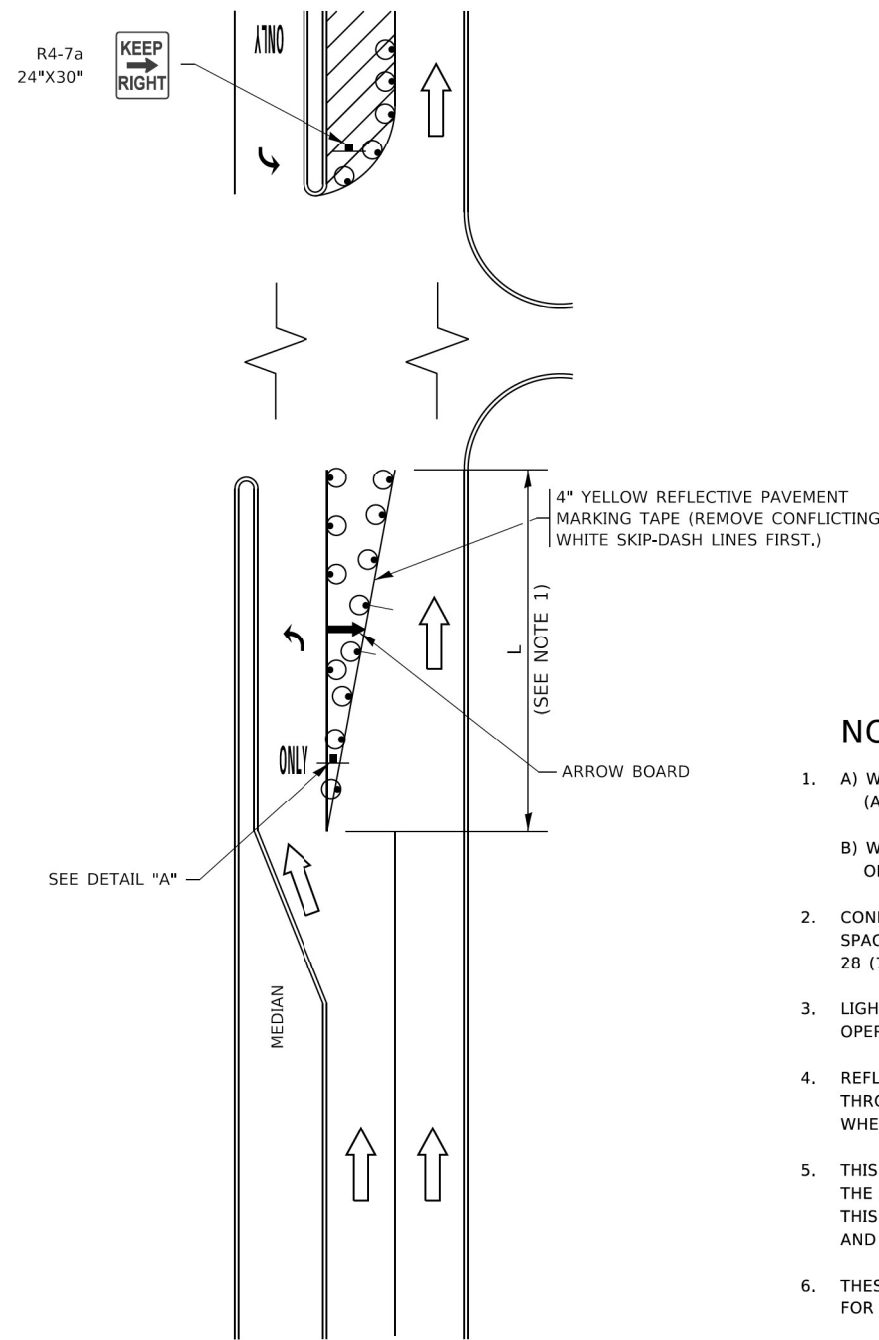
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

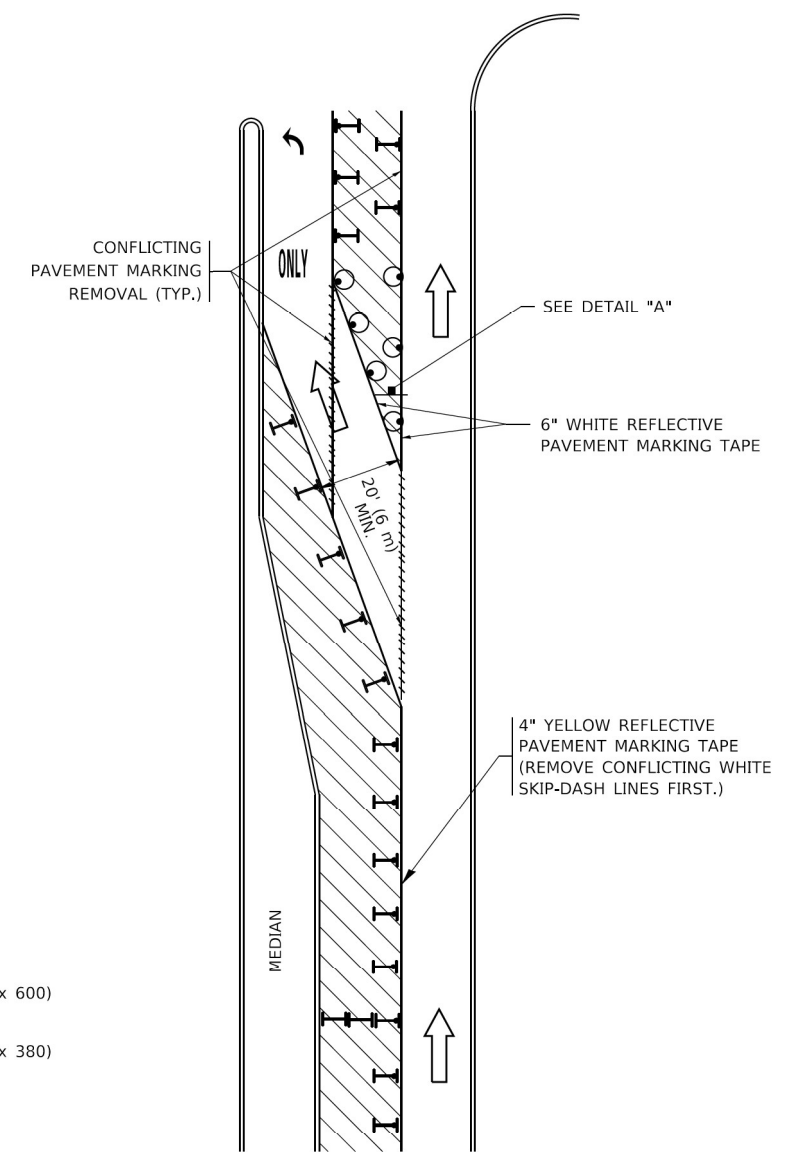
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	58
TC-13			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



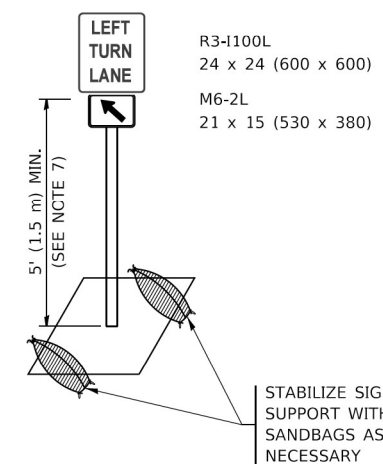
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
 B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

All dimensions are in inches (millimeters) unless otherwise shown.

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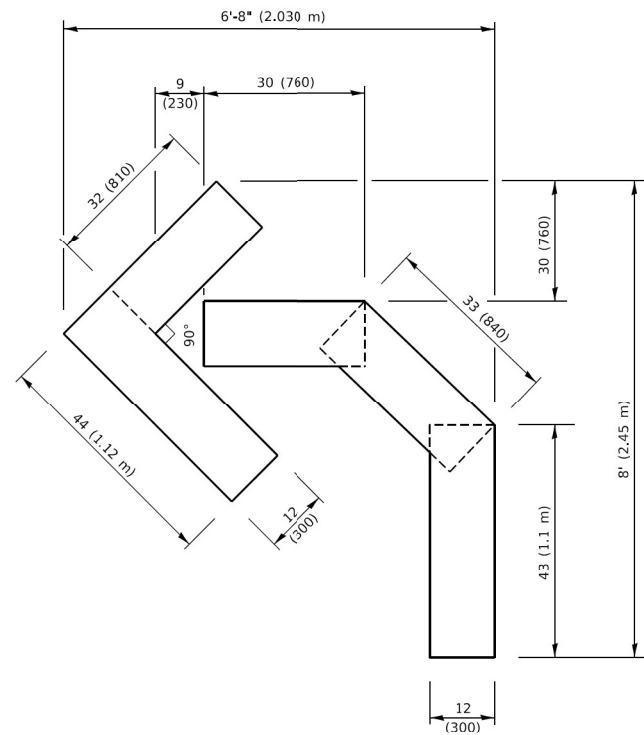
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PLOT SCALE = 50,0000' / 1"	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)

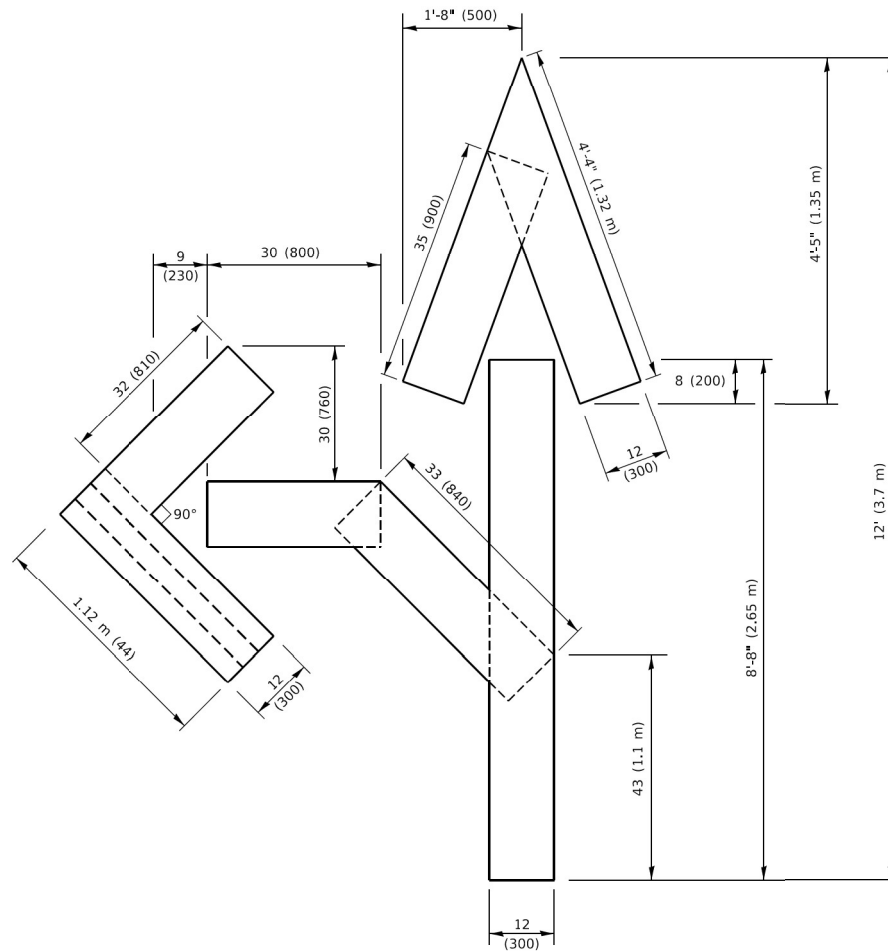
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TC-14			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				



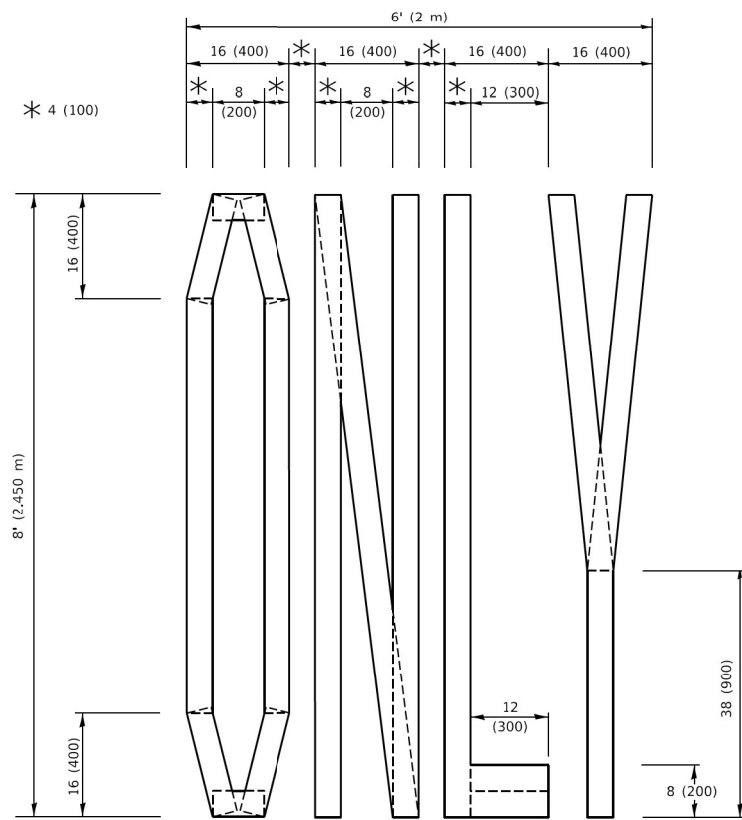
**QUANTITY**

4 (100) LINE = 45.5 ft. (13.9 m)  
15.2 sq. ft. (1.41 sq. m)



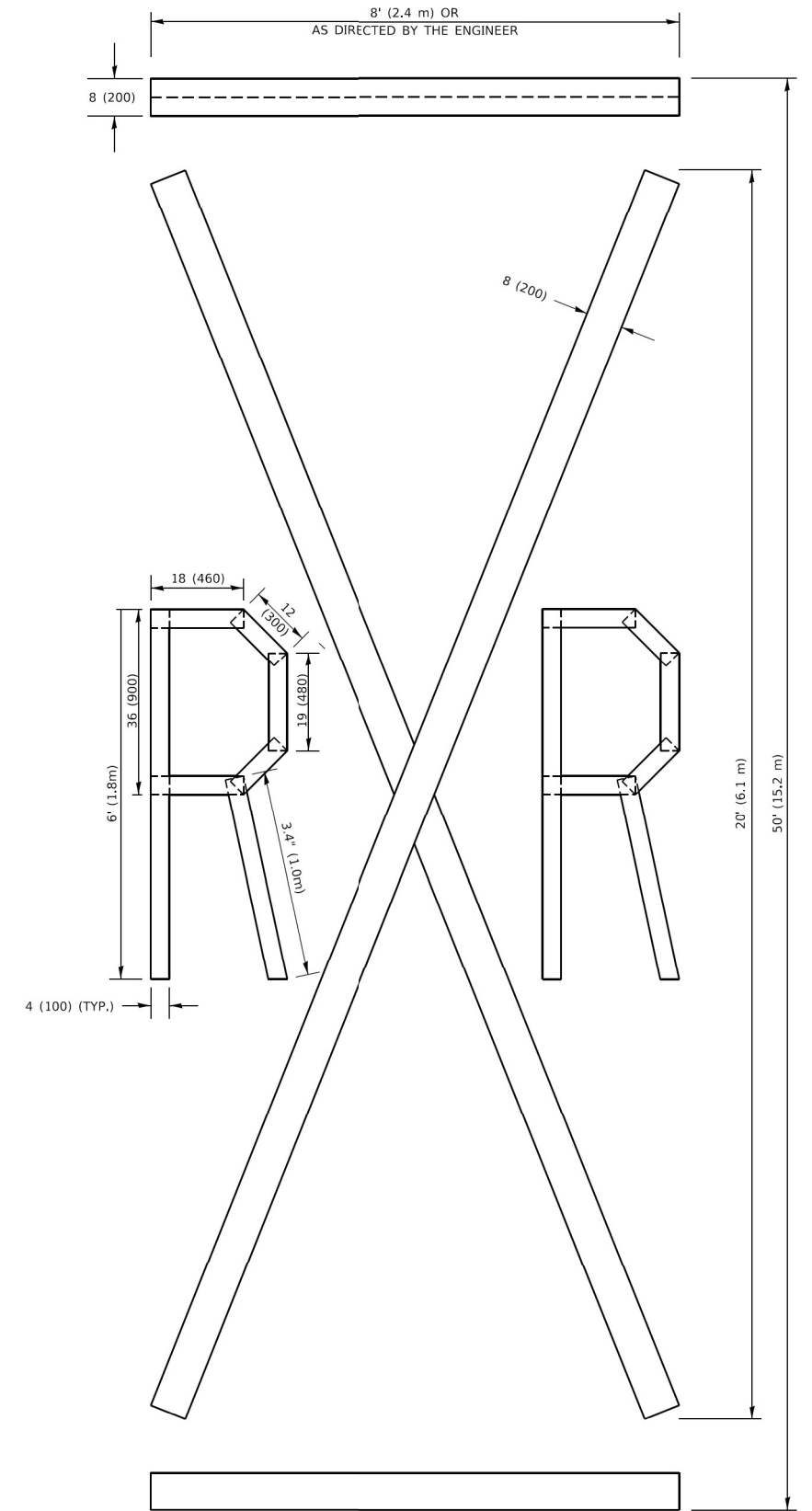
**QUANTITY**

4 (100) LINE = 82.5 ft. (25.1 m)  
27.5 sq. ft. (2.53 sq. m)



**QUANTITY**

4 (100) LINE = 64.1 ft. (19.5 m)  
21.4 sq. ft. (1.99 sq. m)



**QUANTITY**

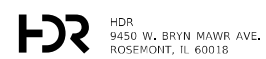
4 (100) LINE = 225.9 ft. (68.9 m)  
75.3 sq. ft. (6.99 sq. m)

**NOTE:**

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.

All dimensions are in inches (millimeters) unless otherwise shown.

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DESIGNED -  
DRAWN -  
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PLOT DATE = 3/4/2019

DESIGNED -  
DRAWN -  
CHECKED -  
DATE - 09-18-94

REVISED - T. RAMMACHER 03-02-98  
REVISED - E. GOMEZ 08-28-00  
REVISED - E. GOMEZ 08-28-00  
REVISED - A. SCHUETZE 09-15-16

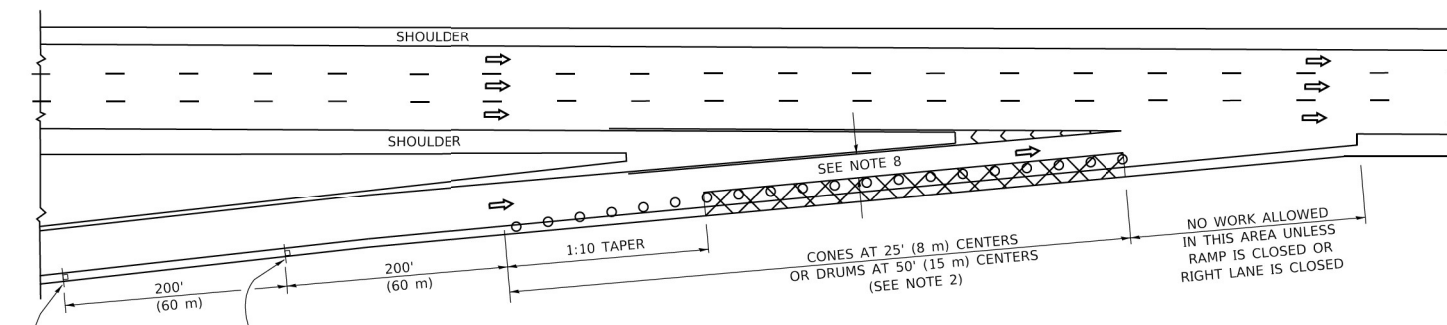
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

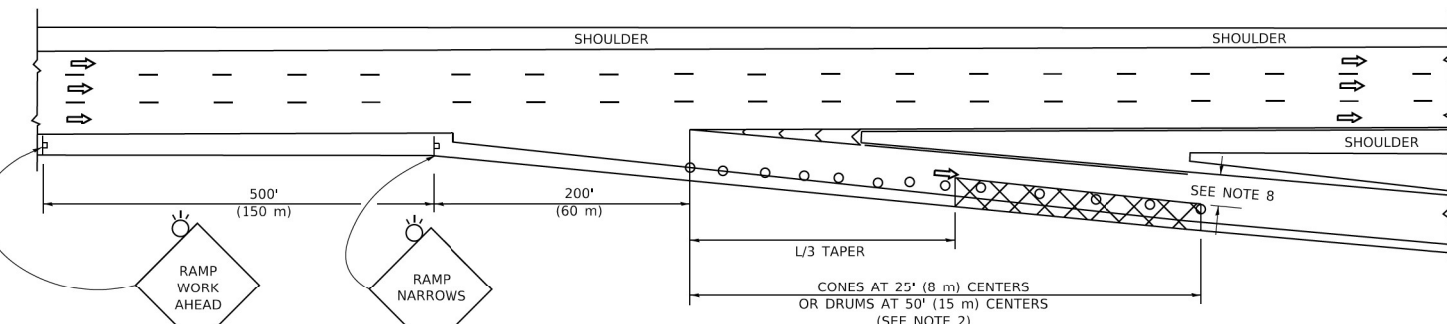
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		ILLINOIS FED. AID PROJECT		

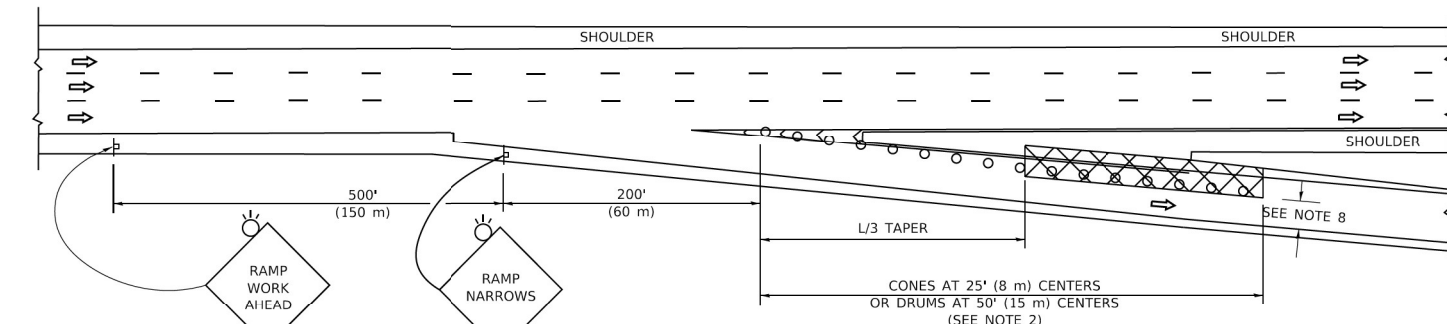
**PARTIAL RAMP CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**SYMBOLS**

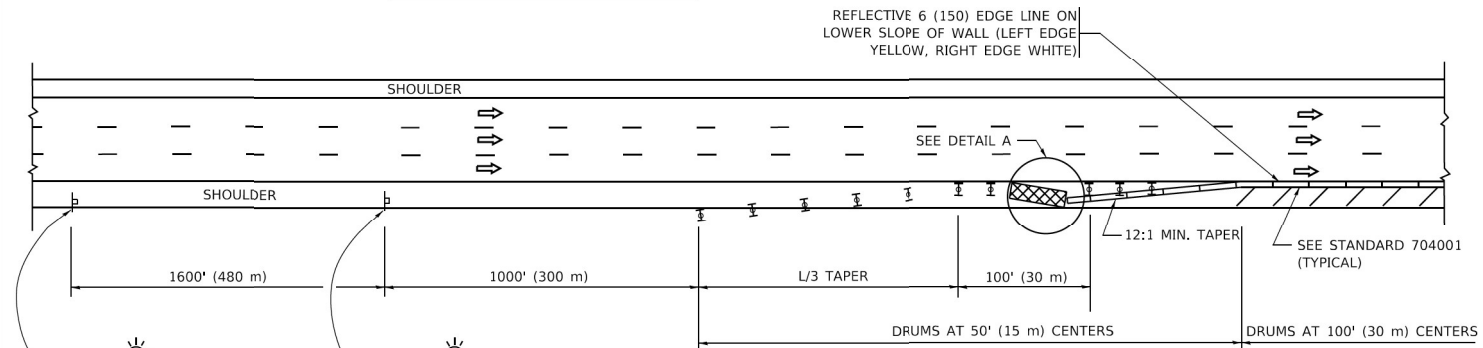
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

**GENERAL NOTES:**

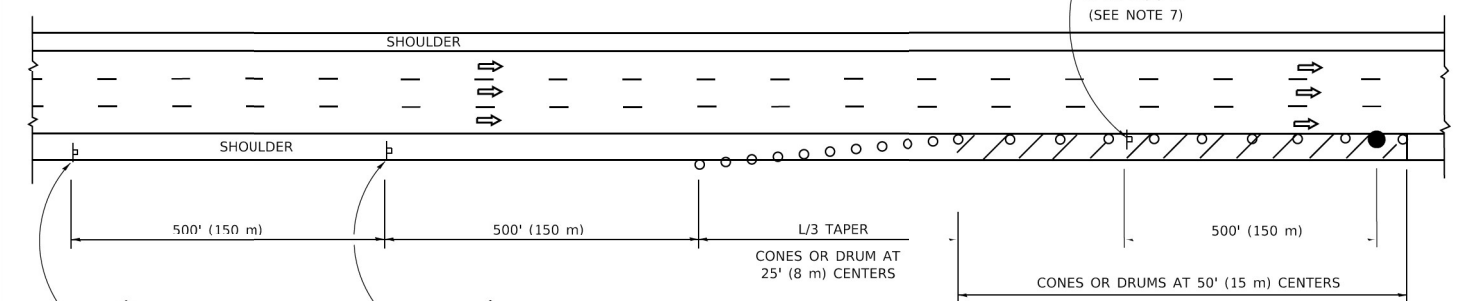
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(WHS)$ $L=(WHS)$
$W$ = WIDTH OF OFFSET IN FEET (METERS)	
$S$ = NORMAL POSTED SPEED MPH (KM/H)	
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

**SHOULDER CLOSURE DETAILS**



**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

DETAIL "A"  
 IMPACT ATTENUATOR, TEMPORARY  
 (SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
 16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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USER NAME = footemj  
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 DRAWN - D.W.S.  
 PLOT SCALE = 50,0000 ' / ft.  
 PLOT DATE = 3/4/2019

DESIGNED -  
 DRAWN - D.W.S.  
 CHECKED -  
 DATE - 11-96

REVISED - S.P.B. 01-07  
 REVISED - S.P.B. 12-09  
 REVISED - M.D. 06-13  
 REVISED - M.D. 01-18

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY  
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	61
TC-17			CONTRACT NO. 62M50	
ILLINOIS   FED. AID PROJECT				

MODEL Default: \\hds.gov\p\WIDOT\Documents\DOT Offices\District 1\Projects\SR542\23-24\CADD\Drawings\Sheet\21.dgn

**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

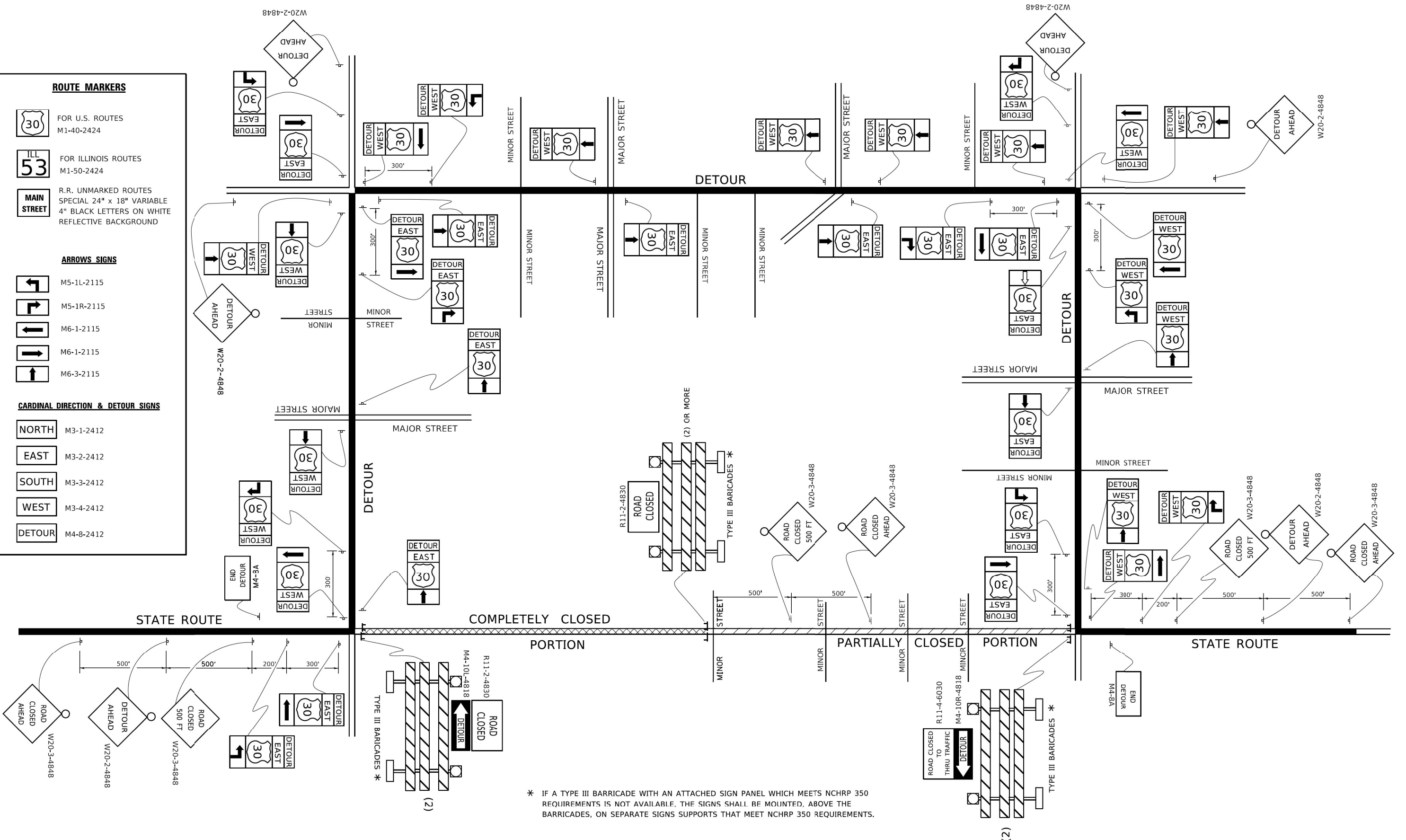
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

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

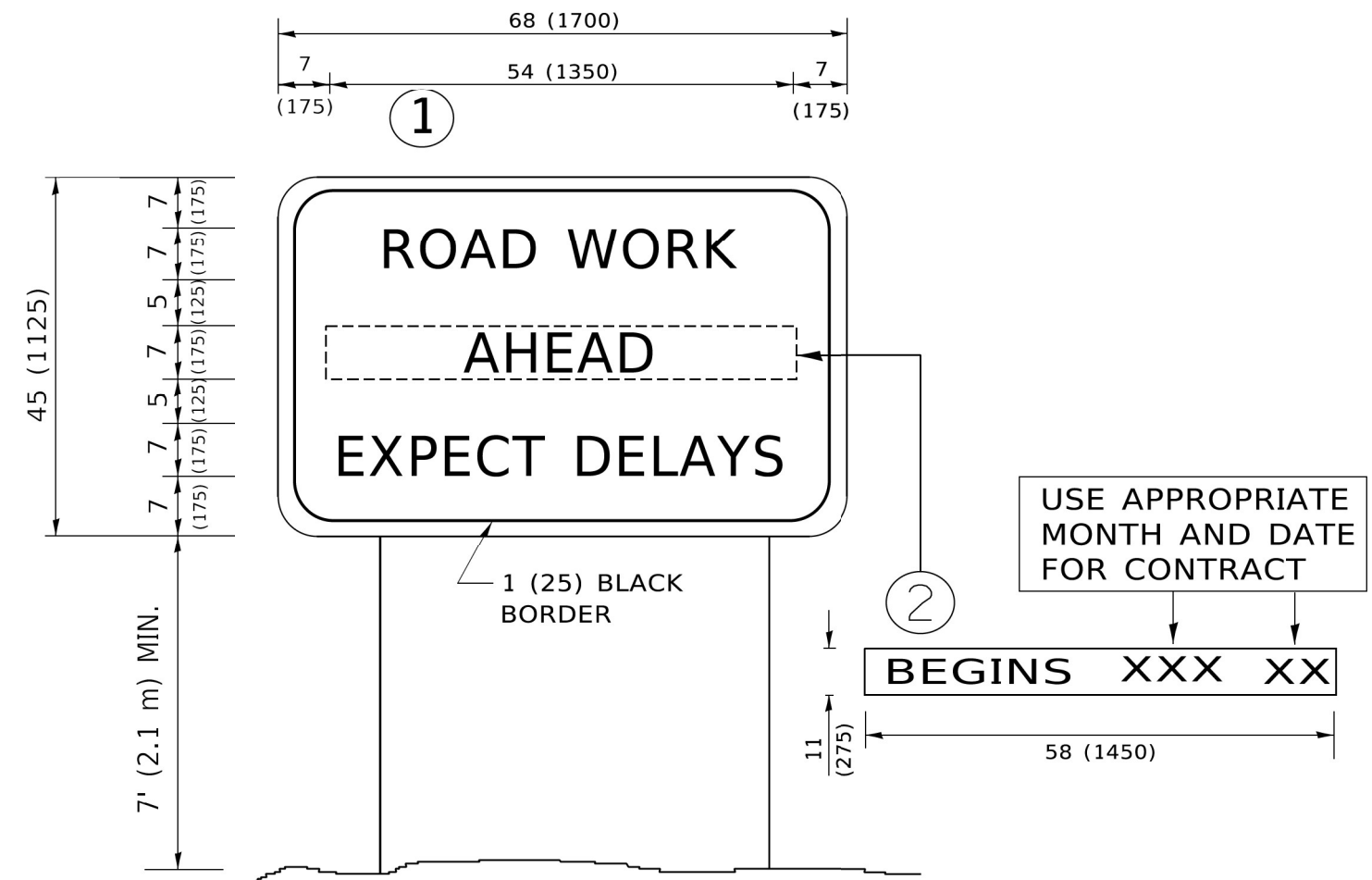
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	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING  
FOR CLOSING STATE HIGHWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 2020-163-BR	COUNTY WILL	TOTAL SHEETS 65	SHEET NO. 62
TC-21		CONTRACT NO. 62M50		
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	63
<b>TC-22</b>			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				



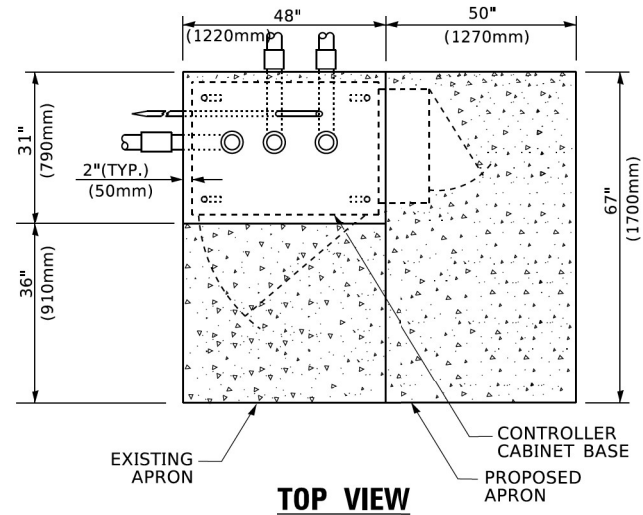
# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE			SIGNAL HEAD		
COMMUNICATION CABINET			-ROUND			-(P) PROGRAMMABLE SIGNAL HEAD		
MASTER CONTROLLER			HEAVY DUTY HANDHOLE -SQUARE					
MASTER MASTER CONTROLLER			-ROUND					
UNINTERRUPTABLE POWER SUPPLY			DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD		
SERVICE INSTALLATION -(P) POLE MOUNTED			JUNCTION BOX			-(RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION -(G) GROUND MOUNTED			RAILROAD CANTILEVER MAST ARM					
-(GM) GROUND MOUNTED METERED			RAILROAD FLASHING SIGNAL					
TELEPHONE CONNECTION			RAILROAD CROSSING GATE					
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CROSSBUCK			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
ALUMINUM MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
WOOD POLE			SYSTEM ITEM	S	SP	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
GUY WIRE			INTERSECTION ITEM	I	IP	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
SIGNAL HEAD			REMOVE ITEM		R	COAXIAL CABLE		
SIGNAL HEAD WITH BACKPLATE			RELOCATE ITEM		RL	VENDOR CABLE		
SIGNAL HEAD OPTICALLY PROGRAMMED			ABANDON ITEM		A	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
FLASHER INSTALLATION -(FS) SOLAR POWERED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	FIBER OPTIC CABLE -NO. 62.5/125, MM12F		
			MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	-NO. 62.5/125, MM12F SM12F		
			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	-NO. 62.5/125, MM12F SM24F		
PEDESTRIAN SIGNAL HEAD			DETECTOR LOOP, TYPE I			GROUND ROD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP			-(C) CONTROLLER		
RADAR DETECTION SENSOR			SAMPLING (SYSTEM) DETECTOR			-(M) MAST ARM		
VIDEO DETECTION CAMERA			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			-(P) POST		
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING (SYSTEM) DETECTOR			-(S) SERVICE		
PAN, TILT, ZOOM (PTZ) CAMERA			WIRELESS DETECTOR SENSOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS ACCESS POINT					
CONFIRMATION BEACON								
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

MODEL: Default  
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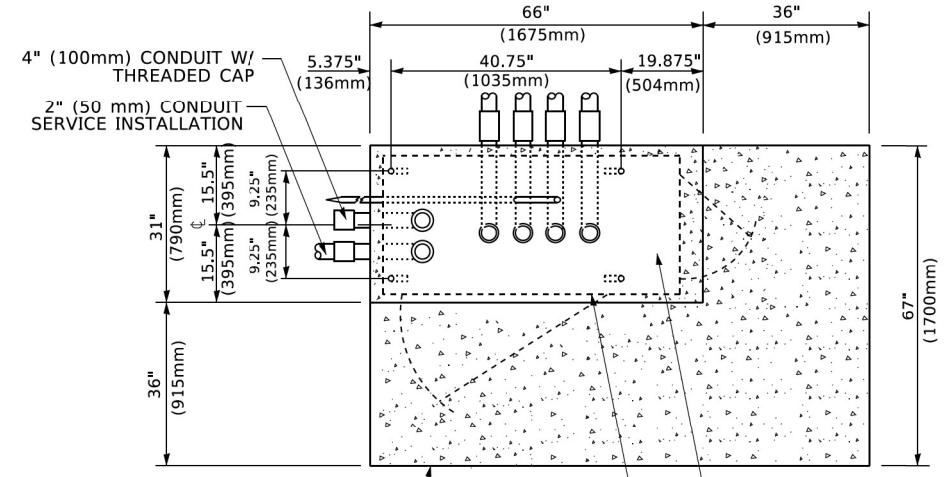
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	PLOT SCALE = 50,0000' / in. PLOT DATE = 3/4/2019			SCALE: NONE    SHEET 1 OF 7 SHEETS    STA. TO STA.	
				CONTRACT NO. 62M50 ILLINOIS FED. AID PROJECT	



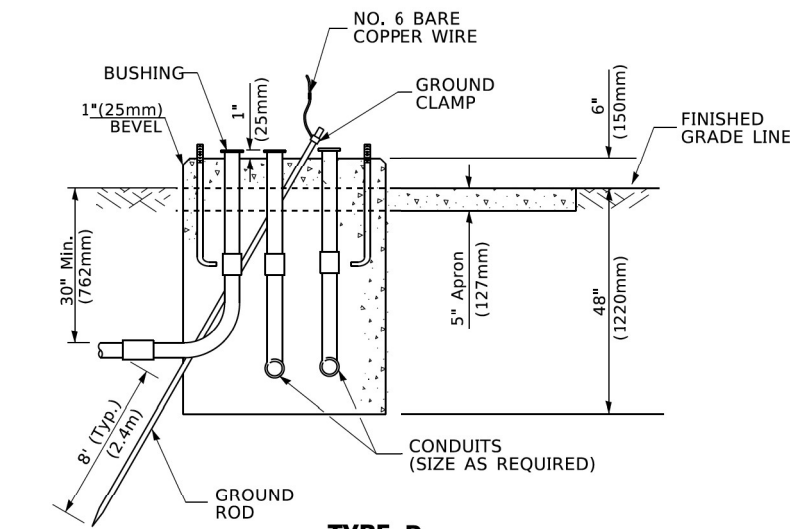
**TOP VIEW**

**NOTE:**

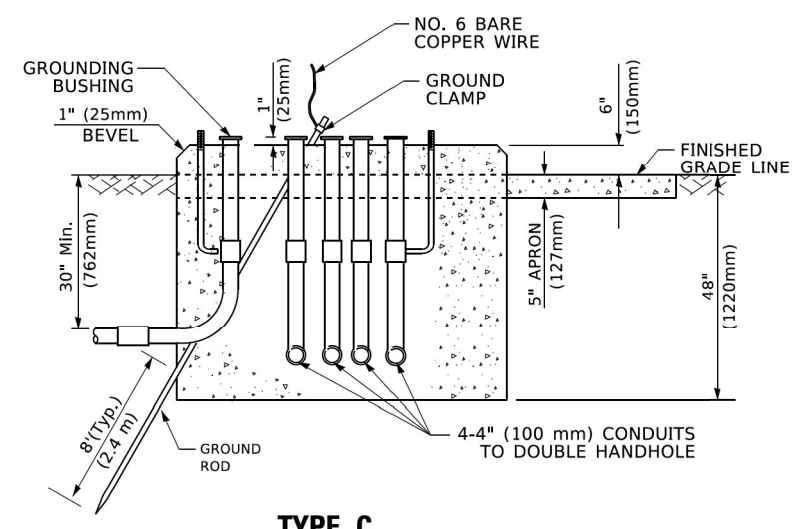
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



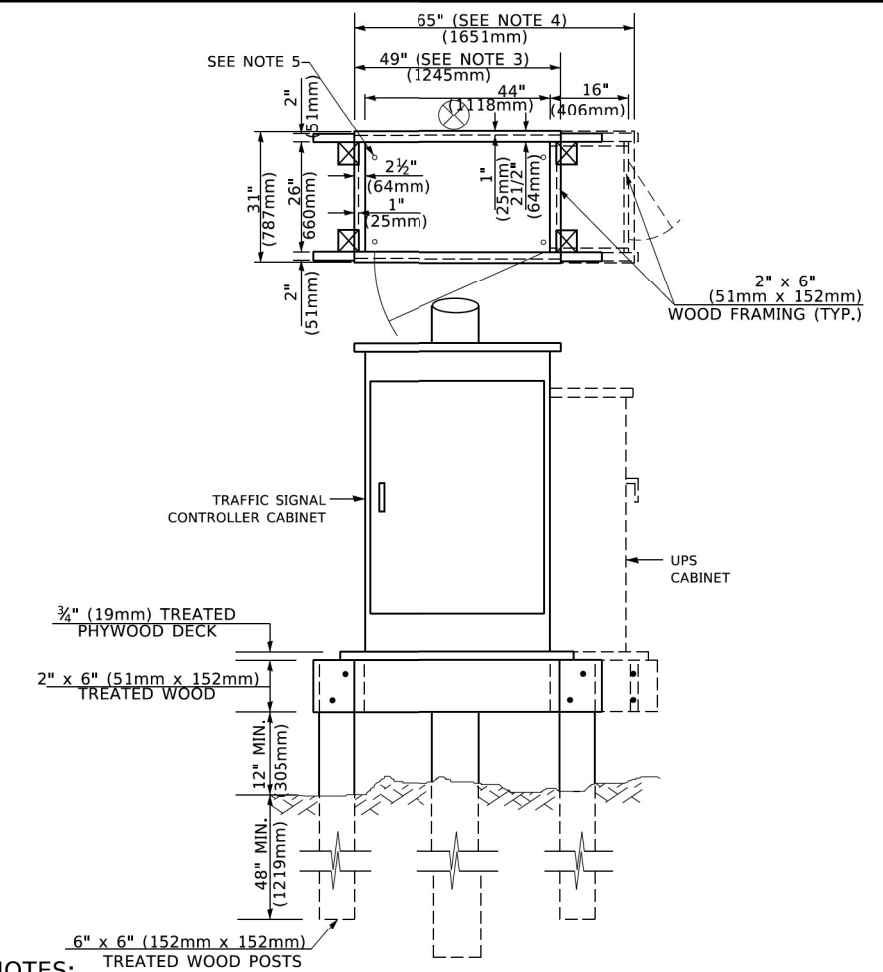
**TOP VIEW**



**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



USER NAME = footemj	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

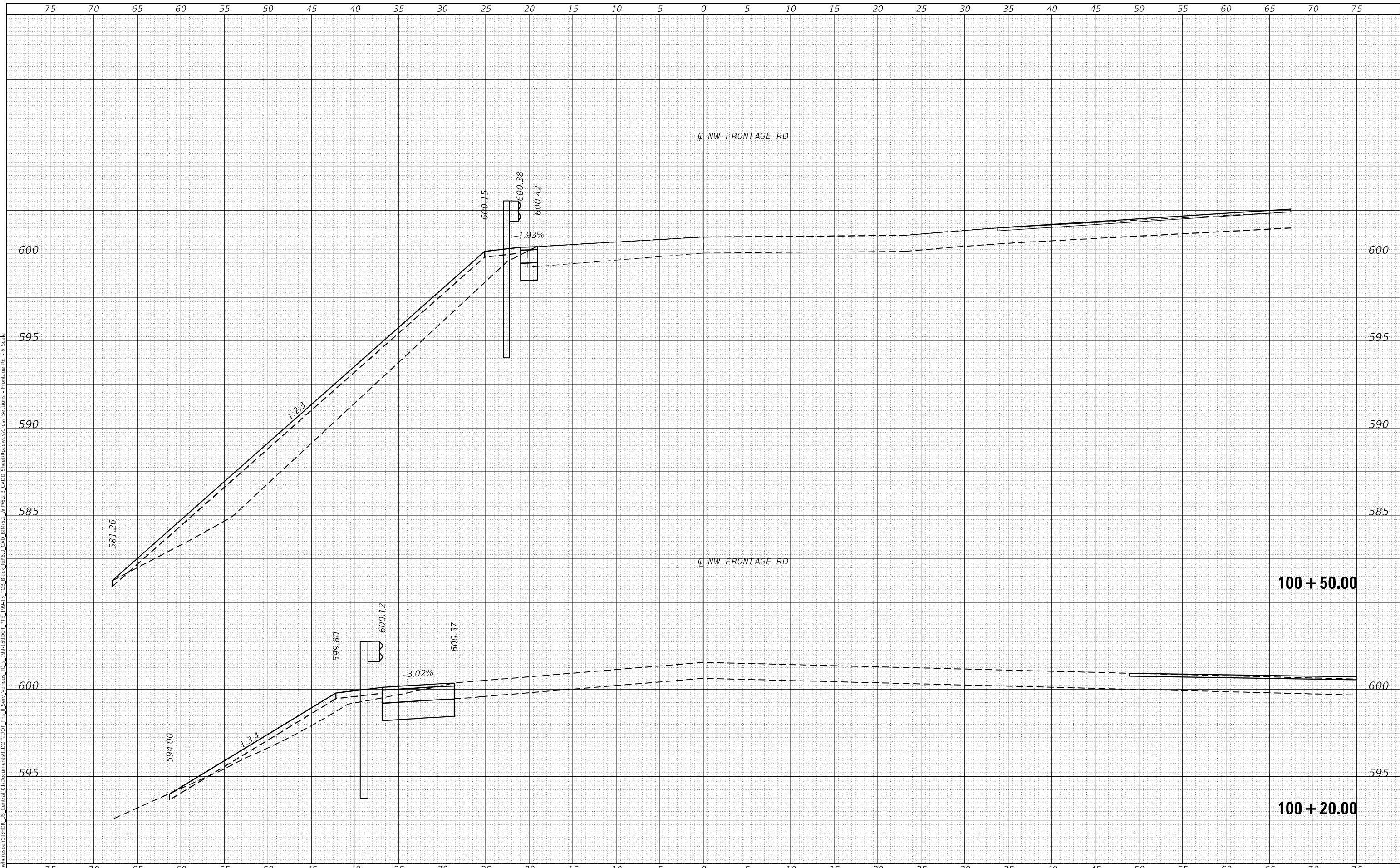
F.A.I. RTE. 55	SECTION 2020-163-BR	COUNTY WILL	TOTAL SHEETS 65	SHEET NO. 65
TS-05			CONTRACT NO. 62M50	
ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	
	AREAS CHECKED	

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 USER: mmiczek  
 PROJECT: NW FRONTAGE RD - 100+20.00 TO 100+50.00



USER NAME	= MMICZEK	DESIGNED	- MSM	REVISED	-
		DRAWN	- YJP	REVISED	-
PLOT SCALE	= 10,0000 * / in.	CHECKED	- DP	REVISED	-
PLOT DATE	= 01/21/2022	DATE	- 12/17/2021	REVISED	-

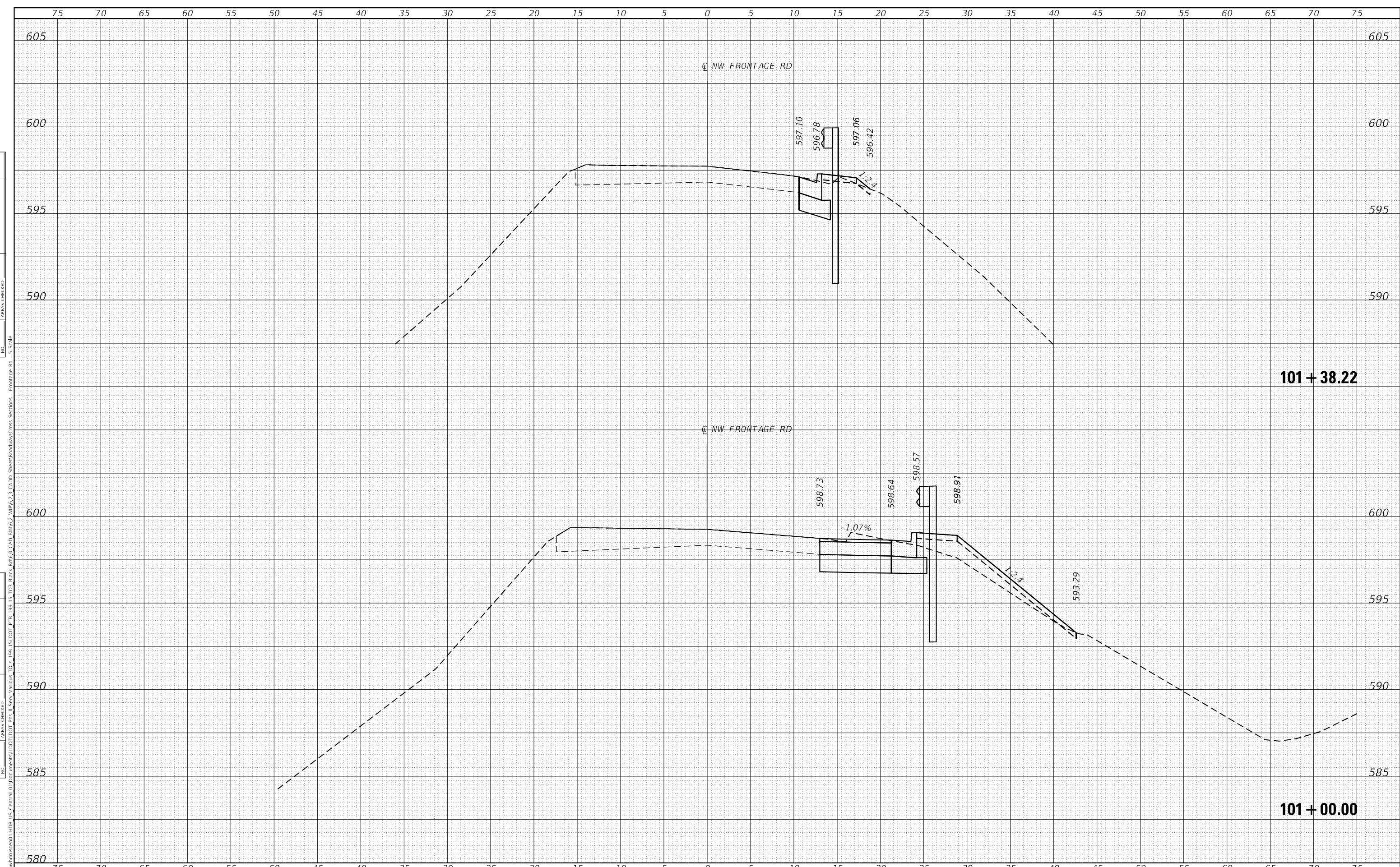
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 NW FRONTAGE ROAD**  
 SCALE: 1"=5H:2.5V SHEET 1 OF 2 SHEETS STA. 100+20.00 TO STA. 100+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	65A
CONTRACT NO. 62M50				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



MODEL: D:\mfr\h...  
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DESIGNED -	MSM	REVISED -	
DRAWN -	YJP	REVISED -	
CHECKED -	DP	REVISED -	
DATE -	12/17/2021	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 NW FRONTAGE ROAD**

SCALE: 1"=5H:2.5V SHEET 2 OF 2 SHEETS STA. 101+00.00 TO STA. 101+38.22

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-163-BR	WILL	65	65B
				CONTRACT NO. 62M50
				ILLINOIS FED. AID PROJECT