







FOR INDEX OF SHEETS, SEE SHEET NO. 2 03-11-2022 LETTING ITEM 011
 FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

I-55
 FUNCTIONAL CLASSIFICATION: INTERSTATE
 POSTED SPEED: 55 MPH
 ADT: 119,600 (2020)

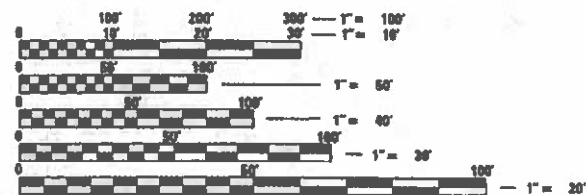
CLARENDON HILLS RD
 FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
 POSTED SPEED: 30 MPH
 ADT: 5,250 (2020)

APPLIES TO SHEETS 1-6, 13


 LICENSED CIVIL ENGINEER, STATE OF ILLINOIS
 EXPIRES 11/30/2023

APPLIES TO SHEETS 7-12


 LICENSED CIVIL ENGINEER, STATE OF ILLINOIS
 EXPIRES 02/28/2022

APPLIES TO SHEETS 14-37


 LICENSED STRUCTURAL ENGINEER, STATE OF ILLINOIS
 EXPIRES 11/30/2022

MUNICIPALITIES:
 UNINCORPORATED DUPAGE COUNTY



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 EXCAVATION
 1-800-892-0123
 OR 811

PROJECT ENGINEER: PRAVEEN KAINI, PE (847)-705-4237
 PROJECT MANAGER: J. ALAIN MIDY, PE (847)-221-3056

CONTRACT NO. 62M64

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED
 HIGHWAY PLANS

FAI 551-55 AT CLARENDON HILLS ROAD
 SECTION 2020-191-BR
 PROJECT NO. NHPP-Q7Z4(321)
 BRIDGE REPAIRS
 DUPAGE COUNTY

C-91-389-20

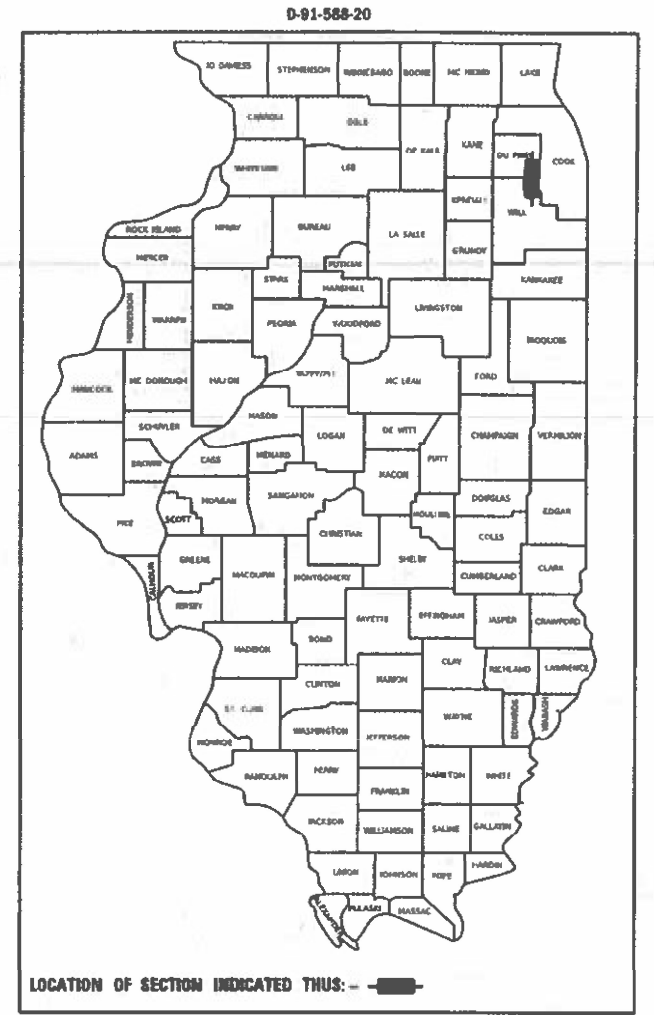
PROJECT LOCATION



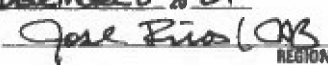
R.11E
 DOWNERS GROVE TOWNSHIP
 GROSS LENGTH = 1000 FT. = 0.19 MILE



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	1
		ILLINOIS	CONTRACT NO. 62M64	



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED December 8, 2021

 REGIONAL ENGINEER

 ENGINEER OF DESIGN AND ENVIRONMENT

 DIRECTOR OF HIGHWAYS - PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

Bowman
 311 S. Wacker Drive, Suite 1960
 Chicago, Illinois 60604
 312-674-8300
 www.bowman.com

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IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-12	STEEL PLATE BEAM GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE COUNTY OF DUPAGE.
- 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 CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.
- EXISTING UNDERGROUND AND ABOVE-GROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED UPON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATION OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST OR THE EXISTENCE OF WHICH WAS NOT KNOWN AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY AND TO PROTECT ALL SUCH EXISTING FEATURES DURING CONSTRUCTION.
- ANY REFERENCE TO STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE LATEST EDITION.
- THE CONTRACTOR SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 AND THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT THE EXPRESSWAY TRAFFIC FIELD ENGINEER REGINA COOPER VIA EMAIL AT REGINA.COOPER@ILLINOIS.GOV A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
- SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM 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 REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THE ADVANCE NOTIFICATION IS CALCULATED BASED ON MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.

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PLOT DATE = 11/16/2021	DATE - 11/16/2021	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	2
			CONTRACT NO. 62M64	
		ILLINOIS	FED. AID PROJECT	

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				90% FED 10% STATE	
				BRIDGE	
				0059	
				SN 022-0089	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	6	6	
50102400	CONCRETE REMOVAL	CU YD	4.5	4.5	
50300225	CONCRETE STRUCTURES	CU YD	19.8	19.8	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	4.1	4.1	
50300260	BRIDGE DECK GROOVING	SQ YD	14	14	
50300300	PROTECTIVE COAT	SQ YD	1,007	1,007	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,060	3,060	
52000015	PREFORMED JOINT SEAL 1 1/2"	FOOT	82.0	82.0	
52000040	PREFORMED JOINT SEAL 3 1/2"	FOOT	54.0	54.0	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	82.0	82.0	
58700300	CONCRETE SEALER	SQ FT	7,058	7,058	
59000200	EPOXY CRACK INJECTION	FOOT	106	106	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	287.5	287.5	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2	
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2	

* SPECIALTY ITEMS

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PLOT DATE = 11/16/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
NONE	1	4	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	3
CONTRACT NO. 62M64			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				90% FED 10% STATE	
				BRIDGE	
				0059	
				SN 022-0089	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	480	480	
67100100	MOBILIZATION	L SUM	1	1	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	315	315	
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	788	788	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	570	570	
70307125	TEMPORARY PAVEMENT MARKING - LINE 5" - TYPE IV TAPE	FOOT	300	300	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	700	700	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	252	252	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	570	570	
* 78004625	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 5"	FOOT	300	300	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1,324	1,324	

* SPECIALTY ITEMS

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 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-494-4300 www.bowman.com	USER NAME = kmaus	DESIGNED - KH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.0000' / in.	CHECKED - AP	REVISED -					55	2020-191-BR	DUPAGE	44	4
	PLOT DATE = 11/16/2021	DATE - 11/16/2021	REVISED -		SCALE: NONE	SHEET 2	OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE		90% FED 10% STATE	
				BRIDGE			
				0059	SN 022-0089		
* 78011030	GROOVING FOR RECESSED PAVEMENT MARKING 6"	FOOT	300	300			
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	8	8			
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	56	56			
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	709	709			
X0322194	POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	38.5	38.5			
X0322215	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	8	8			
X0323491	SLOPE WALL CRACK SEALING	FOOT	98.0	98.0			
X0325749	FIBER WRAP	SQ FT	458.9	458.9			
X0326331	CLEANING AND PAINTING BEARINGS	EACH	14	14			
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	28	28			
Z0010400	CLEANING BRIDGE SEATS	SQ FT	492	492			
Z0012102	CONCRETE BRIDGE DECK SCARIFICATION 3/8 INCH	SQ YD	979.0	979.0			

* SPECIALTY ITEMS

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PLOT DATE = 11/16/2021		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	5
CONTRACT NO. 62M64			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE			
				90% FED 10% STATE			
				BRIDGE			
				0059			
				SN 022-0089			
Z0012193	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	979.0	979.0			
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	333	333			
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	92	92			
Z0015550	DEBRIS REMOVAL	CU YD	4	4			
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	5.6	5.6			
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4	4			
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	279.9	279.9			
* Z0049100	RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT	EACH	28	28			
Z0065700	SLOPE WALL REPAIR	SQ YD	47.9	47.9			
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	13	13			
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	3			
<input type="checkbox"/> Z0076600	TRAINEES	HOUR	500	500			
<input type="checkbox"/> Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500			

* SPECIALTY ITEMS 0042

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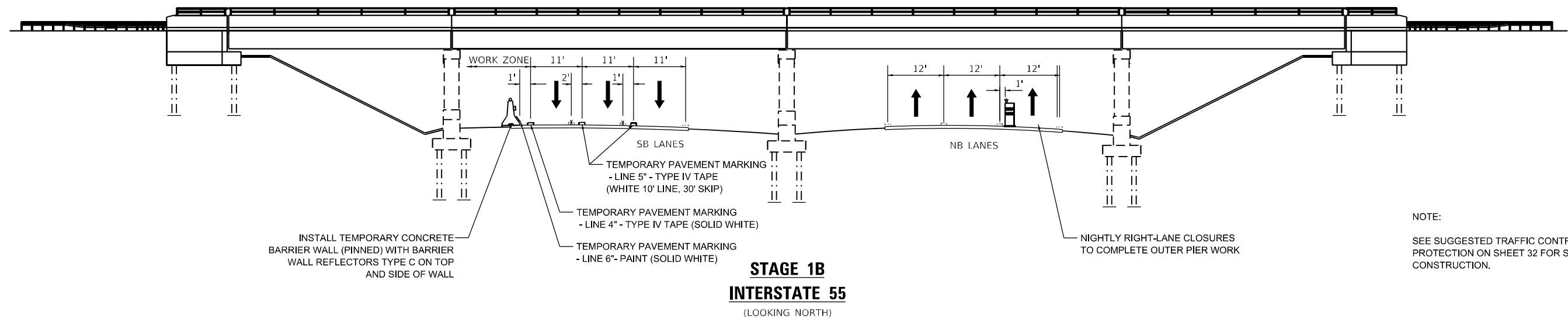
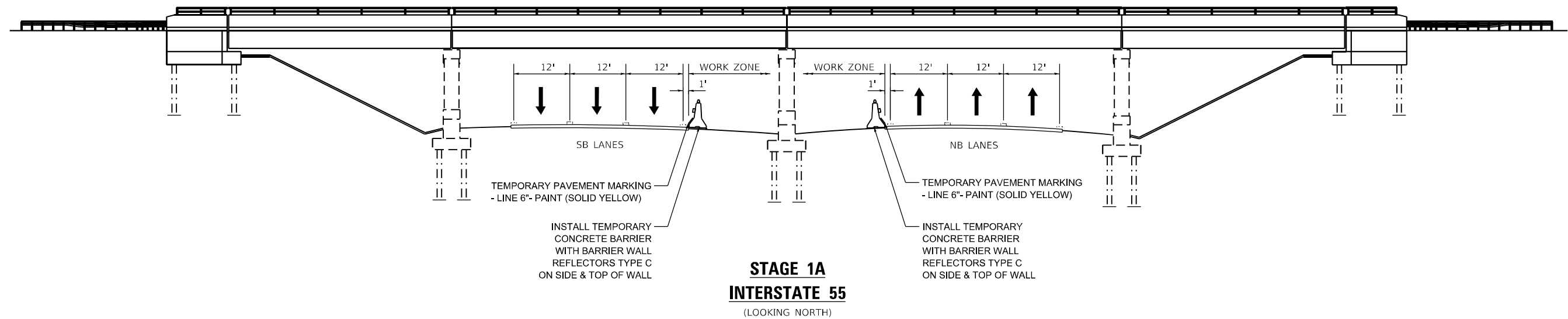


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
NONE	4	4	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	6
CONTRACT NO. 62M64				
ILLINOIS		FED. AID PROJECT		



NOTE:
SEE SUGGESTED TRAFFIC CONTROL AND PROTECTION ON SHEET 32 FOR STAGE 2 CONSTRUCTION.

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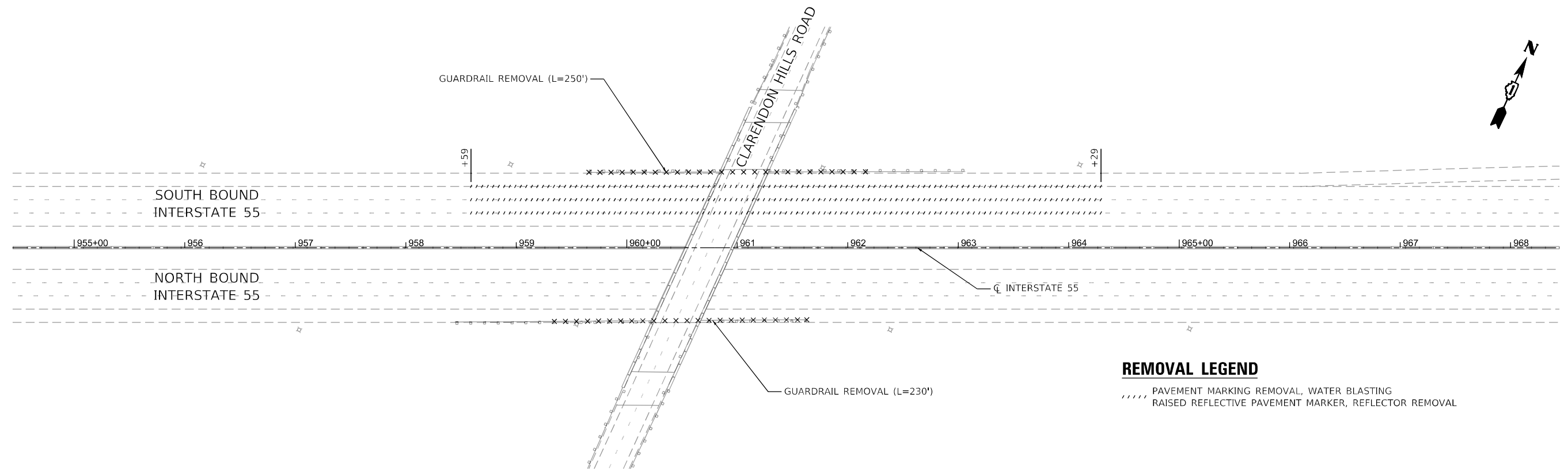
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 55 AT CLARENDON HILLS ROAD
SUGGESTED TRAFFIC CONTROL AND PROTECTION - TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	7
			CONTRACT NO. 62M64	
ILLINOIS FED. AID PROJECT				

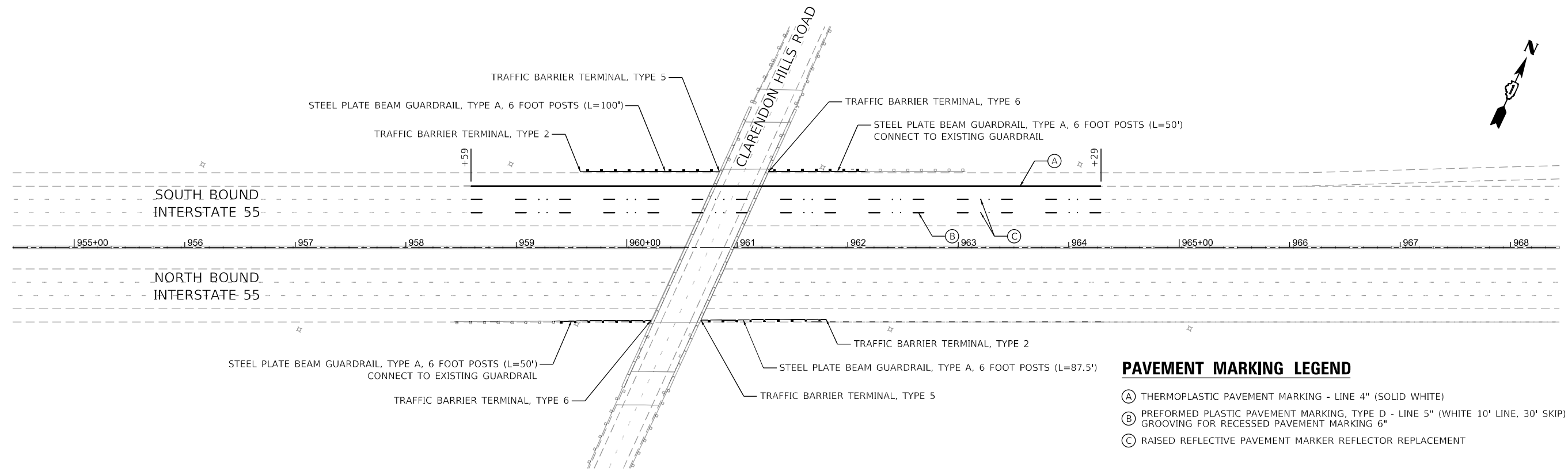
REMOVAL



REMOVAL LEGEND

- PAVEMENT MARKING REMOVAL, WATER BLASTING
- XXXXXX RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL

PROPOSED



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
- (B) PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 5" (WHITE 10' LINE, 30' SKIP)
- (C) RAISED REFLECTIVE PAVEMENT MARKER REFLECTOR REPLACEMENT

FILE NAME : O:\Engineering\LiveProjects\20004_IDOT_DJR_Bowman\WO_12\CADD\CADD_Sheets\Civil\162M64-sht-plandgn



USER NAME : jschumann	DESIGNED -	REVISED -
PLOT SCALE : 1/8" = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE : 11/15/2021	CHECKED -	REVISED -
	DATE : 07/23/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSTATE 55 AT CLARENDON HILLS ROAD REMOVAL AND PROPOSED PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.
2. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
3. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO SEVEN (7) DAYS OF SERVICE OR REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
4. A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE BRIDGE CONSTRUCTION ON CLAREDON HILLS ROAD AND THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG CLAREDON HILLS ROAD AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING BRIDGE CONSTRUCTION/ ROAD CLOSURE. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY FOR CHANGEABLE MESSAGE SIGN.
5. WORK ZONE SPEED LIMIT SHALL BE 55 MPH ON INTERSTATE I-55.
6. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
7. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
9. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
10. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
11. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE PROTECTION DURING ALL PHASES OF CONSTRUCTION.
12. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE 12 FOOT THROUGH LANE WITH 17.5 FOOT CLEAR PATH AT ALL TIMES ON I-55.
13. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 AND THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV IN ADVANCE OF THE DETOUR, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING THE WORK.
14. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL - WATER BLASTING.
15. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED OR OTHERWISE AFFECTED BY CONSTRUCTION. THE COST TO REPAIR ANY DAMAGES WILL BE BOURNE BY THE CONTRACTOR AND NOT THE RESPONSIBILITY OF THE DEPARTMENT.
16. TEMPORARY CONCRETE BARRIERS AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS SHOWN IN THE PLANS. TEMPORARY CONCRETE BARRIER WALL SHALL BE CONTINUOUSLY PINNED TO THE PAVEMENT IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WHERE A 2 FOOT CLEAR ZONE FREE FROM DROP-OFFS, FIXED OBJECTS, OR OTHER OBSTACLES CANNOT BE PROVIDED BEHIND THE WALL.
17. ALL TEMPORARY PAVEMENT MARKINGS WILL BE PAVEMENT MARKING TAPE, TYPE IV, UNLESS OTHERWISE NOTED.
18. REMOVAL OF TEMPORARY PAVEMENT MARKINGS WILL BE PAID FOR AS TEMPORARY PAVEMENT MARKING REMOVAL.
19. ALL ROAD CONSTRUCTION AHEAD SIGNS, ONE LANE ROAD AHEAD SIGNS, AND TYPE III BARRICADES SHALL BE EQUIPPED WITH MONO-DIRECTIONAL TYPE A AMBER FLASHING LIGHTS.
20. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" X 6" DELINEATOR INSTALLED. THE COST OF THE DELINEATOR IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
21. TRAFFIC LANES ON I-55 SHALL ONLY BE CLOSED DURING THE HOURS LISTED IN THE KEEPING EXPRESSWAYS OPEN TO TRAFFIC SPECIAL PROVISION.
22. A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF STAGE CHANGES, LANE CLOSURES OR FULL EXPRESSWAY CLOSURES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE, BUT NOT LIMITED TO LANE CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATIONS.
23. FURNISHING, INSTALLING AND RELOCATING TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.

SUGGESTED SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC FOR:

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER. FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE ENDS OF THE PROJECT ALONG INTERSTATE 55 AND IMPACTED CROSS STREETS. THE IMPROVEMENTS WILL BE CONSTRUCTED USING A DETOUR ROUTE FOR CLAREDON HILLS ROAD FOR THE SUPERSTRUCTURE WORK. SUBSTRUCTURE WORK WILL REQUIRE TRAFFIC CONTROL ON I-55 CONSISTING OF LEFT AND RIGHT SHOULDER CLOSURES, LANE SHIFTS TO REDUCE LANES WIDTHS TO 11 FEET, AND NIGHTLY LANE CLOSURES UTILIZING DISTRICT ONE STANDARDS TC-09, TC-17, AND HIGHWAY STANDARDS 701400, 701401, 701411, 701428, 701446, 701901, 704001 AND 782006.

CLAREDON HILLS ROAD

1. INSTALL CHANGEABLE MESSAGE SIGNS TWO-WEEKS PRIOR TO INSTALLATION OF CLAREDON HILLS ROAD DETOUR.
2. INSTALL DETOUR ROUTE SIGNING AND CLOSE CLAREDON HILLS ROAD AS SHOWN IN THE PLANS. PERFORM TEMPORARY TRAFFIC SIGNAL TIMING AS DIRECTED BY THE ENGINEER.
3. COMPLETE ALL SUPERSTRUCTURE WORK, PERMANENT PAVEMENT MARKINGS AND RE-OPEN CLAREDON HILLS ROAD.

NORTHBOUND & SOUTHBOUND I-55

STAGE IA

1. UTILIZE HIGHWAY STANDARD LANE CLOSURES 701401 AND 701400 TO INSTALL LONG TERM MEDIAN SHOULDER CLOSURE AND TEMPORARY CONCRETE BARRIER WALL FOR NORTHBOUND AND SOUTHBOUND I-55 IN ACCORDANCE WITH DISTRICT ONE HIGHWAY STANDARD TC-09.
2. COMPLETE MEDIAN PIER SUBSTRUCTURE REPAIRS.

STAGE IB

1. UTILIZE HIGHWAY STANDARD LANE CLOSURES 701400, 701401 AND 701446 TO REMOVE PERMANENT PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS AND INSTALL TEMPORARY PAVEMENT MARKINGS SOUTHBOUND TO SHIFT RIGHT 2 LANES AND REDUCE ALL LANES TO 11 FEET WIDE.
2. INSTALL PERMANENT RIGHT SHOULDER CLOSURE AND TEMPORARY CONCRETE BARRIER WALL FOR SOUTHBOUND I-55 IN ACCORDANCE WITH DISTRICT ONE HIGHWAY STANDARD TC-09. NORTHBOUND OUTSIDE PIER REPAIRS WILL BE COMPLETED USING NIGHTLY RIGHT LANE CLOSURES IN ACCORDANCE WITH HIGHWAY STANDARDS 701400 AND 701401 DURING ALLOWABLE LANE CLOSURE HOURS AS SHOWN IN KEEPING EXPRESSWAYS OPEN TO TRAFFIC SPECIAL PROVISION.
3. INSTALL TEMPORARY SHORING SOUTHBOUND AND COMPLETE SOUTHBOUND OUTSIDE PIER REPAIRS. COMPLETE NORTHBOUND OUTSIDE PIER REPAIRS.
4. RESTORE PERMANENT PAVEMENT MARKINGS AND PAVEMENT MARKER REFLECTORS TO RETURN TRAFFIC TO NORMAL CONFIGURATION SOUTHBOUND.

STAGE II

1. UTILIZE HIGHWAY STANDARD LANE CLOSURES 701400, 701401 AND 701446 TO COMPLETE ALL BEAM REPAIRS AS REQUIRED. LANES SHALL BE CLOSED IN ACCORDANCE TO THE ALLOWABLE LANE CLOSURE HOURS AS SHOWN IN THE KEEPING EXPRESSWAYS OPEN TO TRAFFIC SPECIAL PROVISION. CONTRACTOR SHALL CLOSE LANES AS REQUIRED TO PROVIDE A LANE OF SAFETY BETWEEN THE LIVE TRAFFIC LANE(S) AND WORK AREA.

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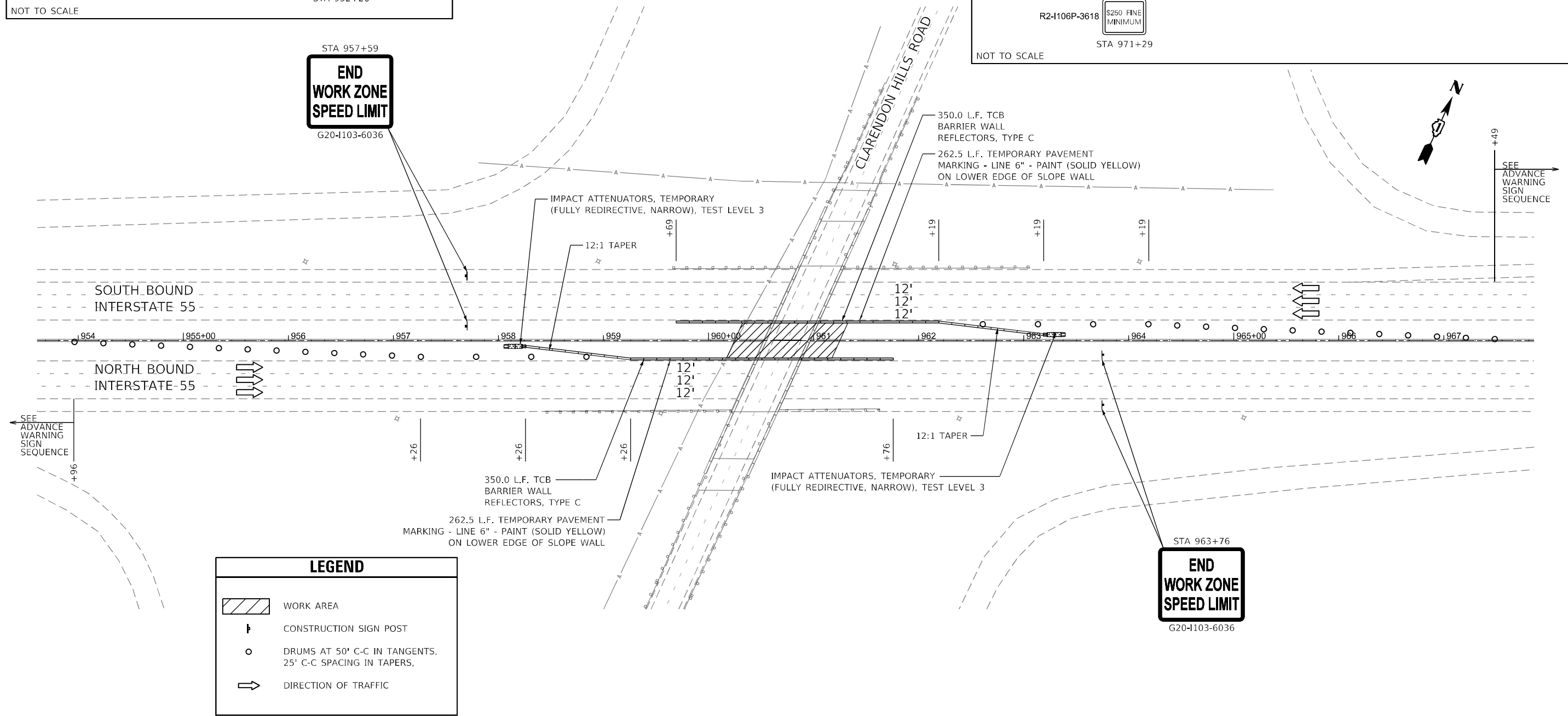
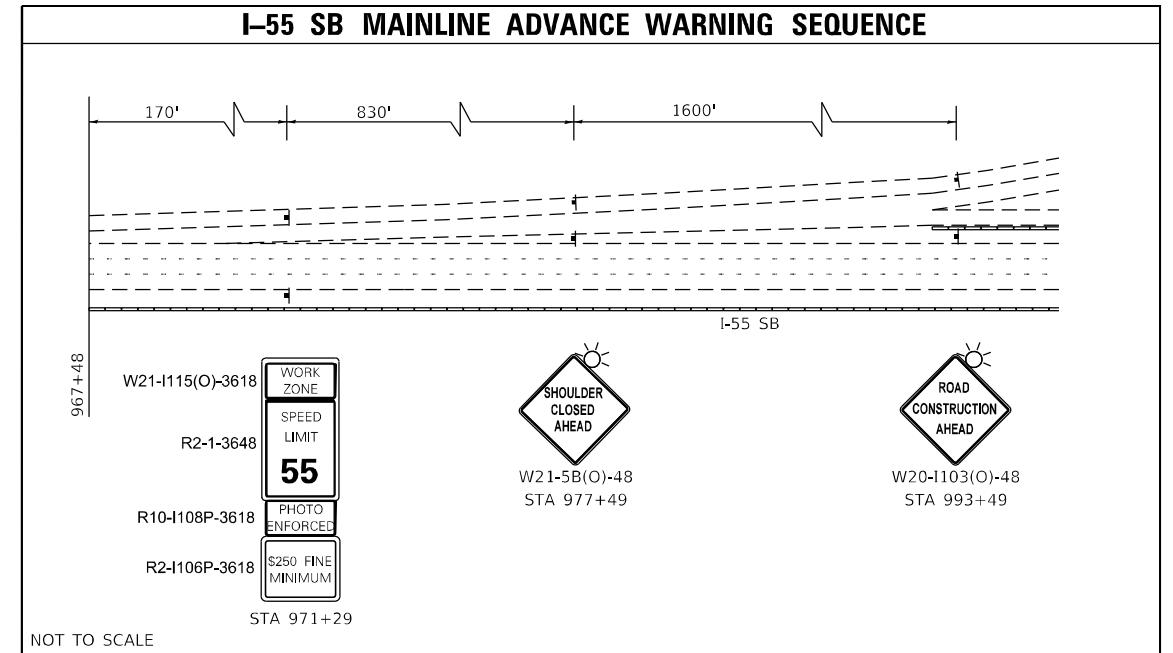
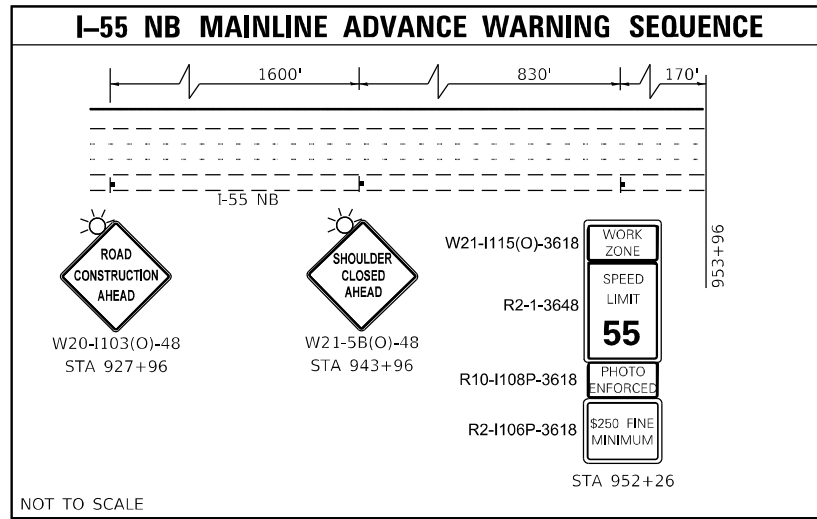


USER NAME : jschuermann	DESIGNED - DW	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE : 2,0000' / in.	CHECKED - AB	REVISED -
PLOT DATE : 11/15/2021	DATE - 07/23/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 55 AT CLAREDON HILLS ROAD
SUGGESTED TRAFFIC CONTROL AND PROTECTION, MAINTENANCE
OF TRAFFIC GENERAL NOTES AND SEQUENCE OF CONSTRUCTION**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	9
CONTRACT NO.			62M64	
SCALE:		SHEET OF SHEETS		STA. TO STA.
		ILLINOIS		FED. AID PROJECT



LEGEND	
	WORK AREA
	CONSTRUCTION SIGN POST
	DRUMS AT 50' C-C IN TANGENTS, 25' C-C SPACING IN TAPERS.
	DIRECTION OF TRAFFIC

FILE NAME: O:\Engineering\LiveProjects\20004_IDOT_DUR_Bowman\WO_12\CADD\CADD_Sheets\Civil\162M64-shit-MOT-I-55-Stage_1A.dgn

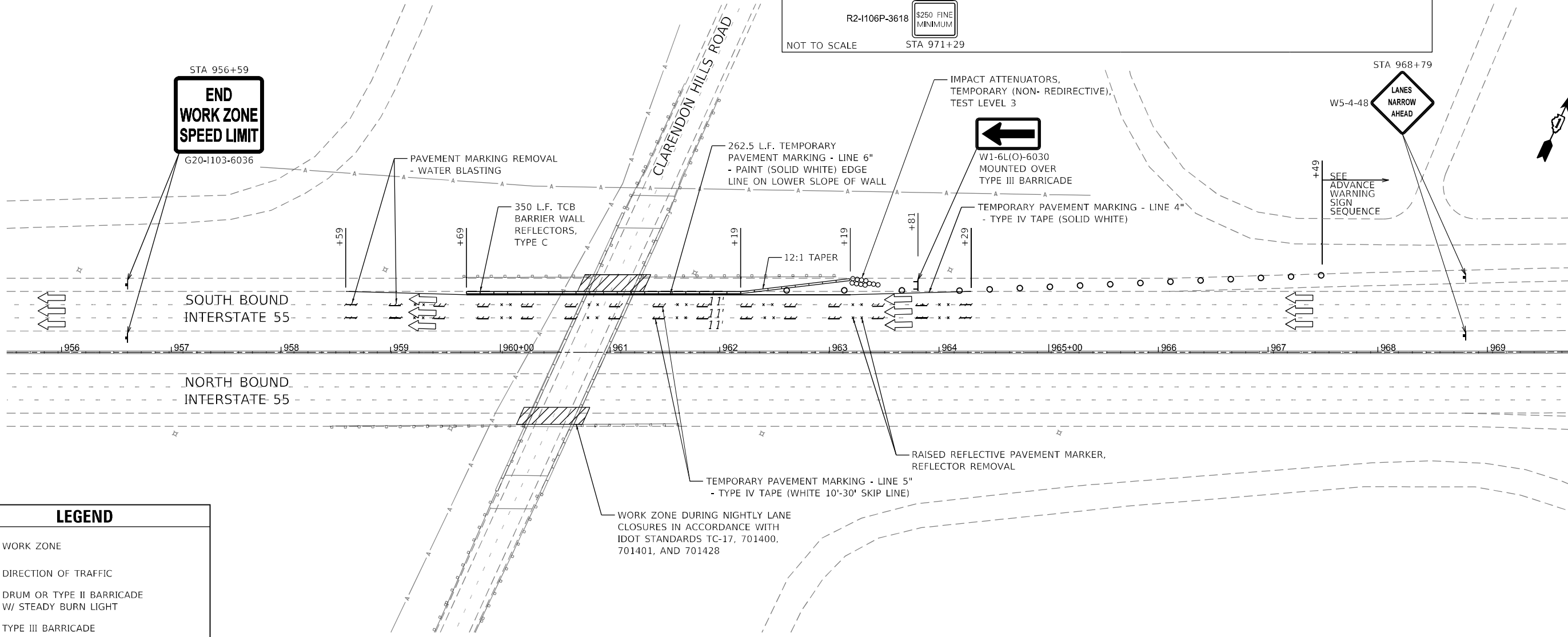
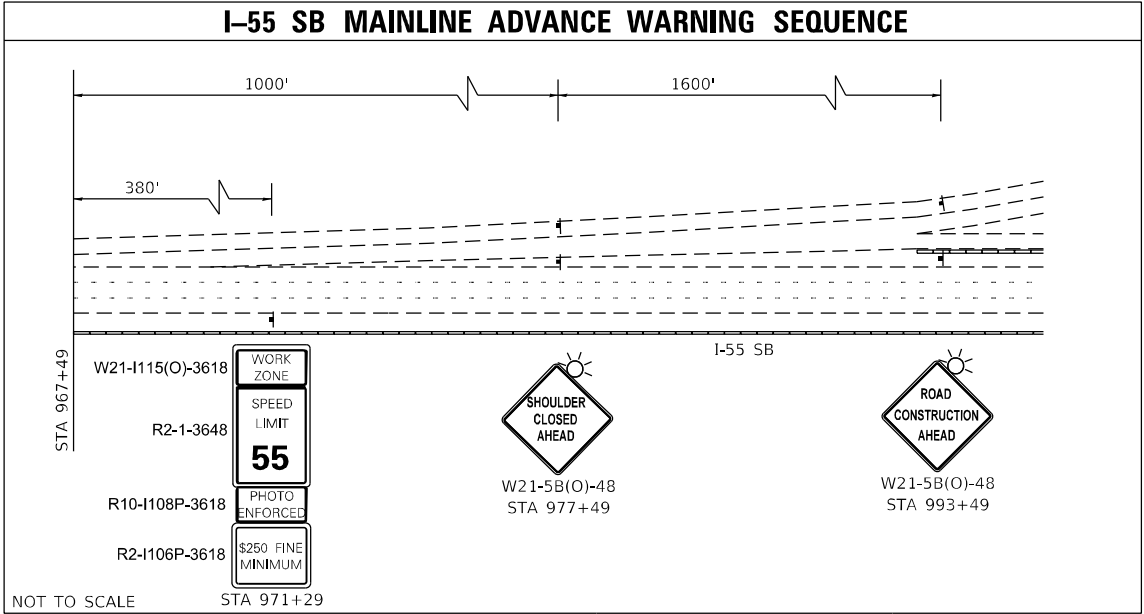


USER NAME: jschumann	DESIGNED: -	REVISED: -
PLOT SCALE: 100,000' / in.	DRAWN: -	REVISED: -
PLOT DATE: 11/15/2021	CHECKED: -	REVISED: -
	DATE: 07/23/2021	REVISED: -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSTATE 55 AT CLARENDON HILLS ROAD			
SUGGESTED TRAFFIC CONTROL AND PROTECTION - STAGE 1A			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
55	2020-191-BR	DUPAGE	44	10
CONTRACT NO. 62M64				
ILLINOIS FED. AID PROJECT				



LEGEND	
	WORK ZONE
	DIRECTION OF TRAFFIC
	DRUM OR TYPE II BARRICADE W/ STEADY BURN LIGHT
	TYPE III BARRICADE
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	PAVEMENT MARKING REMOVAL - WATER BLASTING
	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL

FILE NAME: O:\Engineering\LiveProjects\20004_IDOT_DUR_Bowman\WO_12\CADD\CADD_Sheets\Civil\162M64-shit-MOT-I-55-Stage-1B.dgn



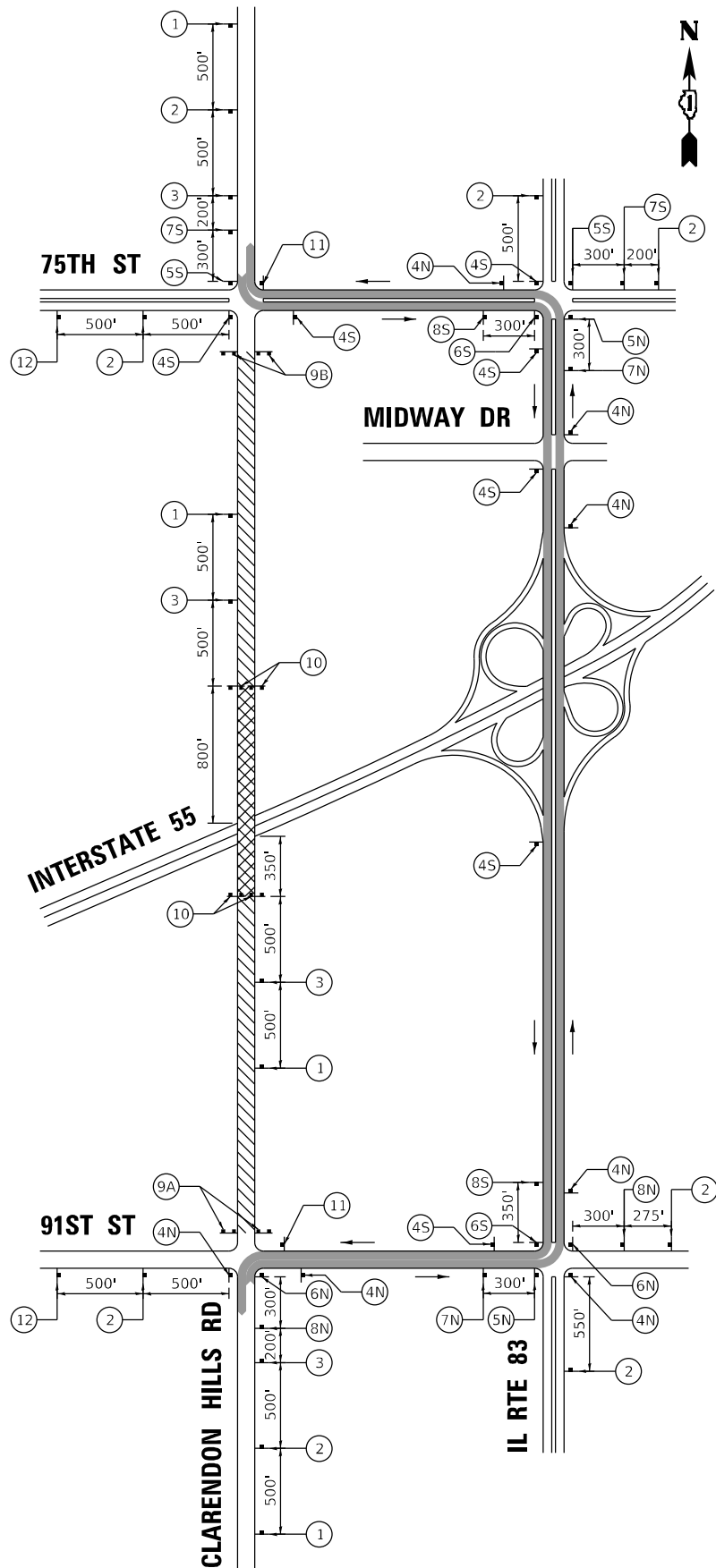
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PLOT DATE: 11/15/2021	CHECKED: -	REVISED: -
	DATE: 07/23/2021	REVISED: -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 55 AT CLARENDON HILLS ROAD
SUGGESTED TRAFFIC CONTROL AND PROTECTION - STAGE 1B**

F.A.I. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
55	2020-191-BR	DUPAGE	44	11
CONTRACT NO. 62M64			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.



MAP LEGEND

- PROJECT AREA - FULLY CLOSED
- PROJECT AREA - PARTIALLY CLOSED
- DETOUR ROUTE
- DIRECTION OF TRAFFIC
- SIGN ASSEMBLY ON TEMPORARY SUPPORT
- TYPE III BARRICADE

NOTE:
 TEMPORARY TRAFFIC SIGNAL TIMING MAY BE NECESSARY AT THE INTERSECTIONS OF CLARENDON HILLS ROAD/75TH STREET, 75TH STREET/IL ROUTE 83, AND IL ROUTE 83/91ST STREET AS DIRECTED BY THE ENGINEER. BASED ON TRAFFIC CONGESTION OBSERVATIONS.

SIGN ASSEMBLY LEGEND

① ROAD CLOSED AHEAD W20-3-48 (O)	② DETOUR AHEAD W20-2-48 (O)	③ ROAD CLOSED 500 FT W20-3-48 (O)					
④N NORTH M3-1-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9-3024 (O) 	⑤N NORTH M3-1-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9-3024 (O) 	⑥N NORTH M3-1-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9-3024 (O) 	⑦N NORTH M3-1-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9L-3024 (O) 	⑧N NORTH M3-1-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9R-3024 (O) 			
④S SOUTH M3-3-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9-3024 (O) 	⑤S SOUTH M3-3-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9-3024 (O) 	⑥S SOUTH M3-3-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9-3024 (O) 	⑦S SOUTH M3-3-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9L-3024 (O) 	⑧S SOUTH M3-3-3015 (O) CLARENDON HILLS RD. SPECIAL 30"X21" 4" LETTERS (O) DETOUR M4-9R-3024 (O) 			
⑨A ROAD CLOSED TO THRU TRAFFIC DETOUR R11-4-6030 (W) FLASHING LIGHT X2 M4-10R-4818 (O)	⑨B ROAD CLOSED TO THRU TRAFFIC DETOUR R11-4-6030 (W) FLASHING LIGHT X2 M4-10L-4818 (O)	⑩ ROAD CLOSED R11-2-4830 (W) FLASHING LIGHT X2	⑪ END DETOUR M4-8A-2418 (O)	⑫ CLARENDON HILLS RD CLOSED AT INTERSTATE 55 FOLLOW DETOUR SPECIAL 48"X60" 4" LETTERS (O)			

FILE NAME: O:\Engineering\LiveProjects\20004_IDOT_DUR_Bowman\WO_12\CADD\CADD_Sheets\Civil\162M64-91st-staging-detour.dgn



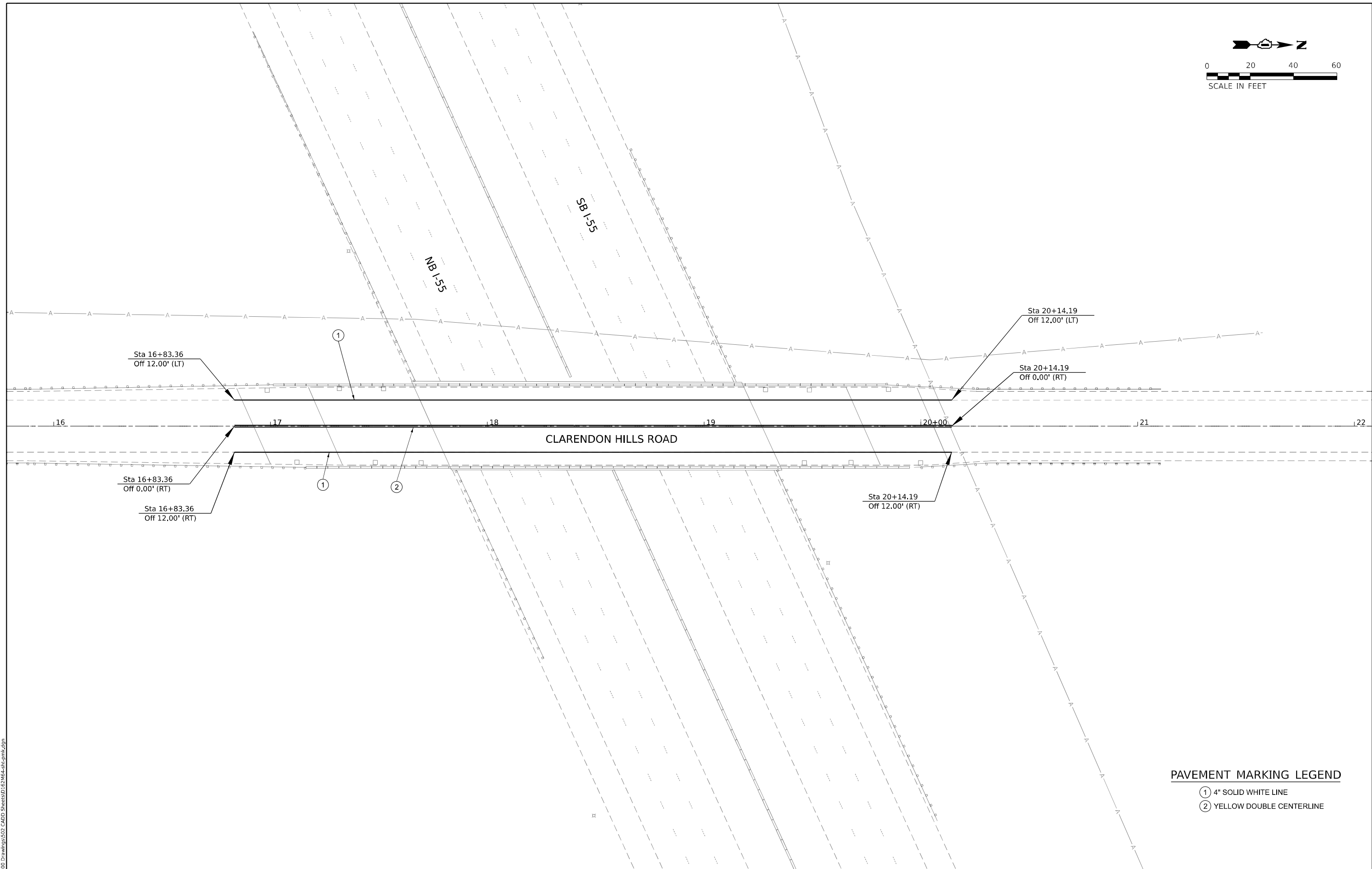
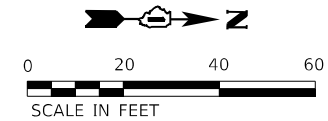
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PLOT DATE = 11/15/2021	CHECKED -	REVISED -
	DATE - 07/23/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 55 AT CLARENDON HILLS ROAD
 CLARENDON HILLS ROAD DETOUR**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	12
CONTRACT NO. 62M64			ILLINOIS FED. AID PROJECT	



PAVEMENT MARKING LEGEND

- ① 4" SOLID WHITE LINE
- ② YELLOW DOUBLE CENTERLINE

MODEL: pmk (sheet)
 FILE NAME: X:\500 Drawings\500_CADD_Sheets\02_M64-sah-pmk.dgn

Bowman
 311 S. Wacker Drive, Suite 1950
 Chicago, Illinois 60606
 312-464-0800
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USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 0.166666' / in.	CHECKED - AP	REVISED -
PLOT DATE = 11/16/2021	DATE - 11/16/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 CLARENDON HILLS ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	13
CONTRACT NO. 62M64			ILLINOIS FED. AID PROJECT	

Existing Structure: S.N. 022-0089, originally built in 1960 as a four-span continuous concrete superstructure with stub abutments and multi-column concrete piers. The back to back length = 251'-11" and the out to out width = 38'-8". Structure is to be repaired as detailed in these plans. The structure will be repaired using a full bridge closure and detour at Clarendon Hills Rd. and temporary lane closures at I-55 Expressway while maintaining the current capacity.

DESIGN SPECIFICATIONS

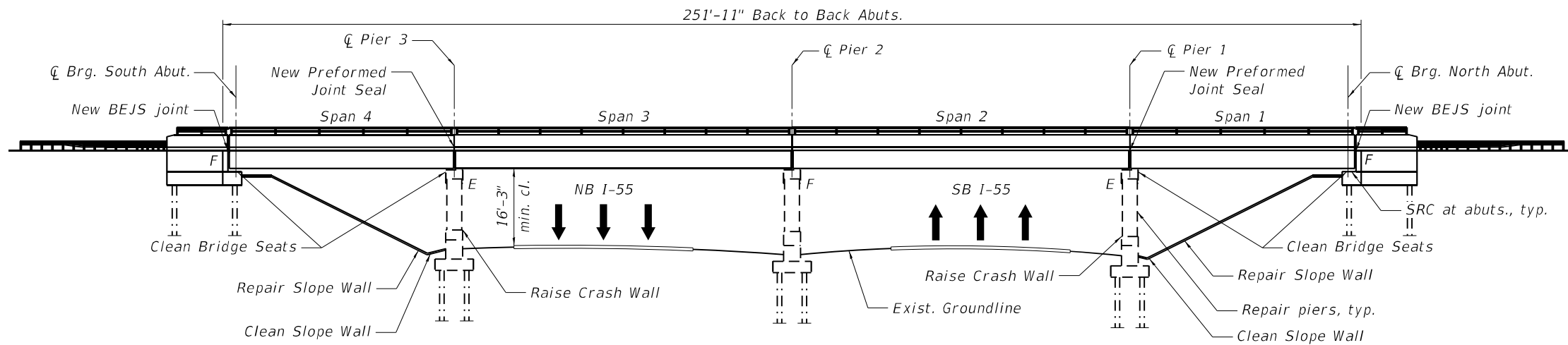
1996 AASHTO "Standard Specifications for Highway Bridges" and 1997 & 1998 AASHTO Interims.

LOADING H20-S16-44

Allow 50psf for future wearing surface

DESIGN STRESSES

Widening	Original Construction
$f'c = 3,500$ psi	$f'c = 3,500$ psi
$f_y = 60,000$ psi (Reinf.)	$f_y = 40,000$ psi (Reinf.)
Precast Prestressed Units	Precast Prestressed Units
$f'c = 6,000$ psi	$f'c = 5,400$ psi
$f'ci = 5,000$ psi	$f'ci = 4,000$ psi
$f's = 270,000$ psi	$f's = 248,000$ psi
$f'si = 202,000$ psi	$f'si = 173,600$ psi

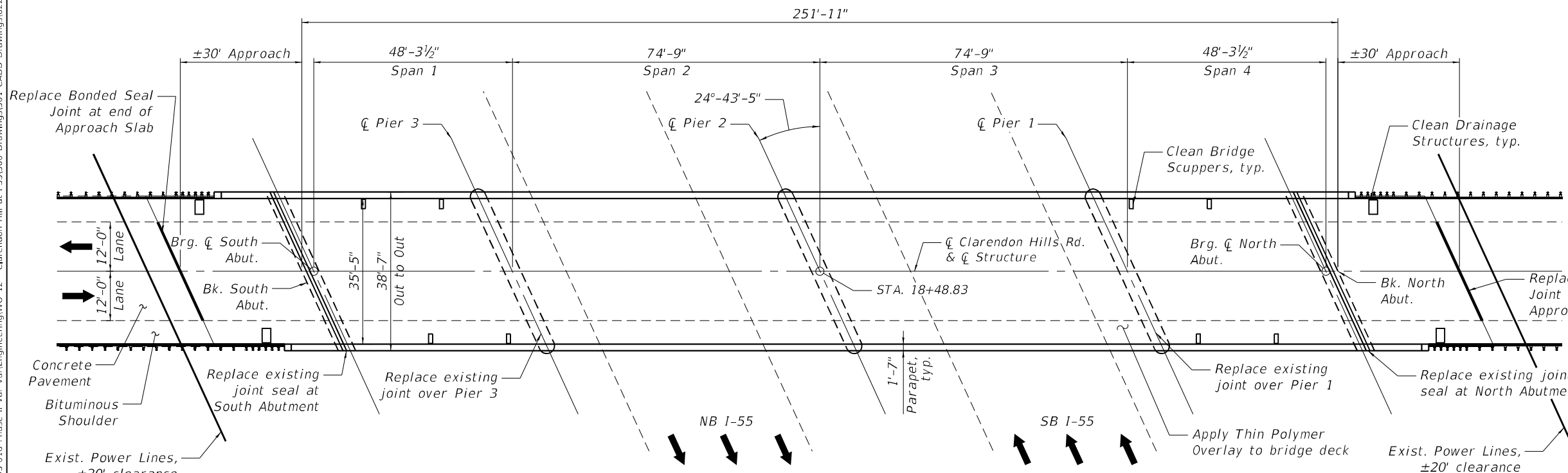


ELEVATION

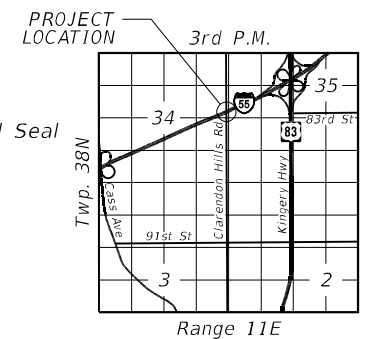
SCOPE OF WORK

1. Replace PJS joints at abutments with BEJS details
2. Replace Neoprene joints at Piers 1 & 3 with Preformed Joint Strip Seal
3. Replace Bonded Seal Joints at end of approach slabs with BEJS
4. Install Thin Polymer Overlay on the bridge
5. Apply concrete sealer to bridge parapets, piers, and abutments
6. Clean bridge seats and slopewalls
7. Clean and paint bearings at abutments
8. Repair beams with Polymer Concrete and Fiber Wrap
9. Repair piers, abutments and slope walls
10. Raise crash walls at Piers 1 & 3

MODEL: 0220089-D62M64-001
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB_195-016 Phase II Var VanEngineering\WO_12 - Clarendon Hill at I-55\1500 Drawings\501 CADD Drawings\0220089-D62M64.dgn



PLAN



LOCATION SKETCH



Arthur Nowak

**GENERAL PLAN AND ELEVATION
CLARENDON HILLS ROAD OVER I-55
DUPAGE COUNTY
STRUCTURE NO. 022-0089**

	USER NAME = atiemann	DESIGNED - AHT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 30:0 ft/in.	DRAWN - AHT	REVISED -			55	2020-191-BR	DUPAGE	44	14	
	PLOT DATE = 11/16/2021	CHECKED - AJN	REVISED -			CONTRACT NO. 62M64					
	SHEET 1 OF 24 SHEETS						ILLINOIS FED. AID PROJECT				

GENERAL NOTES

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

Concrete Sealer shall be applied to all faces of the pier, front face of both abutments, slopewalls, bearing seats, backwalls and above the ground line. Concrete Sealer shall also be applied to front and top face of bridge parapets.

Protective Coat shall be applied to the new concrete joint headings, including new overlay.

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.

CONSTRUCTION

- The contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
- Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustment prior to construction of or ordering of materials. Such variations 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 for the work.
- No concrete cutting shall be permitted until the cutting limits have been outlined by the contractor and approved by the engineer.
- The location and extent of repair items are based on visual observation made during field investigations, and are not guaranteed to be accurate or all inclusive. The location, extent of repair, and quantity or repair shall be field verified by the field engineer.
- Whenever any material is deposited into a drainage system or drainage structures, the deposited material shall be removed at the close of each working day. At the conclusion of construction operations, all drainage systems and structures shall be free from dirt and debris deposited during the various construction operations. The work specified above will not be paid for separately, but shall be considered included in the cost of "Drainage Structures to be Cleaned".
- It shall be the contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
- The end diaphragms shall not be used for jacking purposes during temporary cribbing and shoring operations unless checked and verified by an Illinois Licensed Structural Engineer.
- During construction, OSHA requires that a minimum of thirteen (13) feet working clearance must be maintained between the booms, arms or other parts that can be raised on the equipment by the contractor and Comed's existing electric transmission lines. Under no circumstances, should truck beds be raised directly underneath Comed transmission lines.

TOTAL BILL OF MATERIAL


ITEM NO.	DESCRIPTION	UNIT	SUPER	SUB	TOTAL
20700220	Porous Granular Embankment	CU. YD.	-	6	6
50102400	Concrete Removal	CU. YD.	4.5	-	4.5
50300225	Concrete Structures	CU. YD.	-	19.8	19.8
50300255	Concrete Superstructure	CU. YD.	4.1	-	4.1
50300260	Bridge Deck Grooving	SQ. YD.	14	-	14
50300300	Protective Coat	SQ. YD.	1,007	-	1,007
50800205	Reinforcement Bars, Epoxy Coated	POUND	1,380	1,680	3,060
* 52000015	Preformed Joint Seal 1 1/2"	FOOT	82.0	-	82.0
* 52000040	Preformed Joint Seal 3 1/2"	FOOT	54.0	-	54.0
52000110	Preformed Joint Strip Seal	FOOT	82.0	-	82.0
58700300	Concrete Sealer	SQ. FT.	1,903	5,155	7,058
59000200	Epoxy Crack Injection	FOOT	106	-	106
* X0322194	Polymer Modified Portland Cement Mortar	SQ. FT.	38.5	-	38.5
X0322215	Cleaning Bridge Scuppers and Downspouts	EACH	8	-	8
X0323491	Slope Wall Crack Sealing	FOOT	-	98.0	98.0
X0325749	Fiber Wrap	SQ. FT.	458.9	-	458.9
X0326331	Cleaning and Painting Bearings	EACH	14	-	14
Z0010400	Cleaning Bridge Seats	SQ. FT.	492	-	492
Z0012102	Concrete Bridge Deck Scarification 3/8" Inch	SQ. YD.	979.0	-	979.0
* Z0012193	Bridge Deck Thin Polymer Overlay 3/8"	SQ. YD.	979.0	-	979.0
* Z0012754	Structural Repair of Concrete (Depth Equal to or Less Than 5')	SQ. FT.	-	333	333
* Z0012755	Structural Repair of Concrete (Depth Greater Than 5')	SQ. FT.	-	92	92
Z0015550	Debris Removal	CU. YD.	-	4	4
* Z0016200	Deck Slab Repair (Partial)	SQ. YD.	5.6	-	5.6
Z0018500	Drainage Structures to be Cleaned	EACH	4	-	4
Z0043800	Precast Prestressed Concrete I-Beam Repair	SQ. FT.	279.9	-	279.9
Z0065700	Slope Wall Repair	SQ. YD.	-	47.9	47.9
Z0073200	Temporary Shoring and Cribbing	EACH	-	13	13

* IDOT GBSP

INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 General Notes & Bill of Material
- S-3 Beam Repair Locations - Framing Plan
- S-4 PPC Beam Repair Details - Span 1
- S-5 PPC Beam Repair Details - Span 1
- S-6 PPC Beam Repair Details - Span 2
- S-7 PPC Beam Repair Details - Span 2
- S-8 PPC Beam Repair Details - Span 3
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- S-12 PPC Beam Repair Details & Notes
- S-13 Bridge Deck Thin Polymer Overlay & Parapet Sealing
- S-14 Joint Removal Details @ Piers 1 and 3, Abutments, & Approach Slabs
- S-15 Joint Replacement Details @ Pier 1 and 3, Abutments, & Approach Slabs
- S-16 Expansion Joint Details
- S-17 Preformed Joint Strip Seal
- S-18 Substructure Repair - Pier 1
- S-19 Substructure Repair - Pier 2
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- S-21 Substructure Repair - N. Abutment & Slope Wall
- S-22 Substructure Repair - S. Abutment & Slope Wall
- S-23 Crash Wall Extension - Pier 1
- S-24 Crash Wall Extension - Pier 3

MODEL: 0220089-D62M64-002
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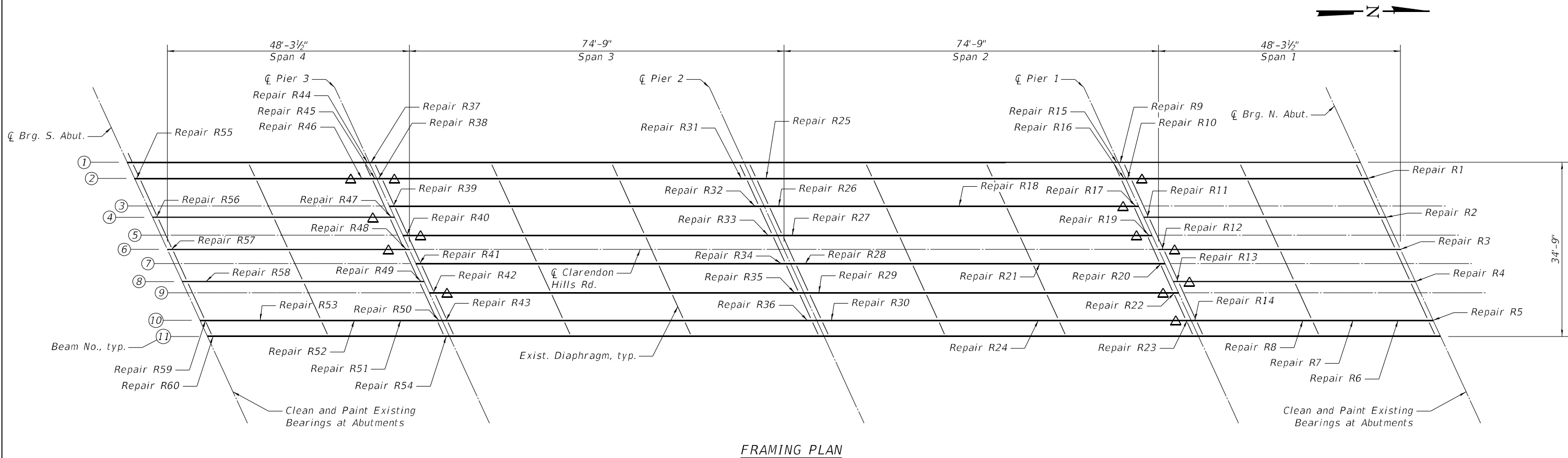
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & BILL OF MATERIAL
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	15
CONTRACT NO.			62M64	
ILLINOIS		FED. AID PROJECT		

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FRAMING PLAN



TYPICAL EXISTING BEARING AT ABUTMENT
 (For Information Only)

BEAM REACTION TABLE (UNFACTORED) - AT ABUTMENT

Load Type	Int. Beam-Spans 1/4 (Kips)	Int. Beam-Spans 2/3 (Kips)
DL	48	67
LL	66	64
IMP	14	12
Tot. Load with Traffic	114	131
Min. Req'd. Jack Capacity with Traffic	171	197
Tot. Load without Traffic	48	67
Min. Req'd. Jack Capacity without Traffic	72	100

Notes:
 Prior to ordering any material, the contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

The jack capacity provided should be between 50% and 100% greater than the maximum expected load.

LEGEND

△ Temporary Shoring and Cribbing

BILL OF MATERIAL

Item	Unit	Total
Cleaning and Painting Bearings	Each	14
Temporary Shoring and Cribbing	Each	13



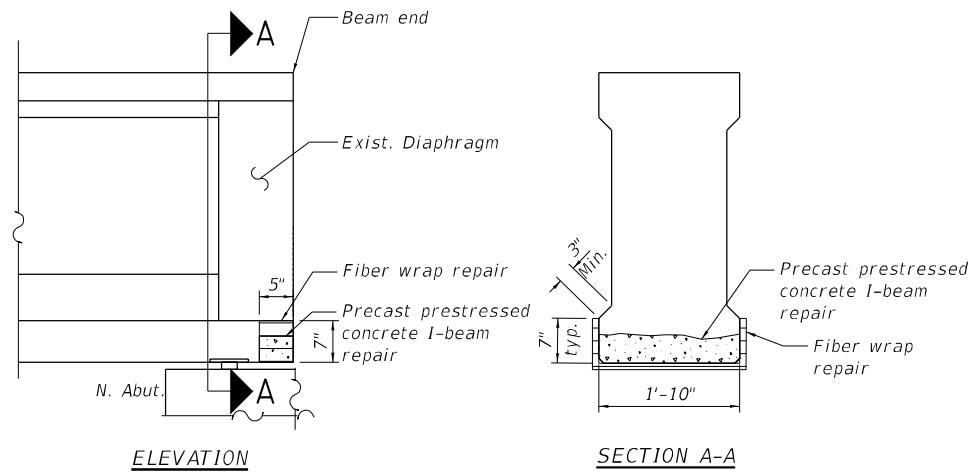
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

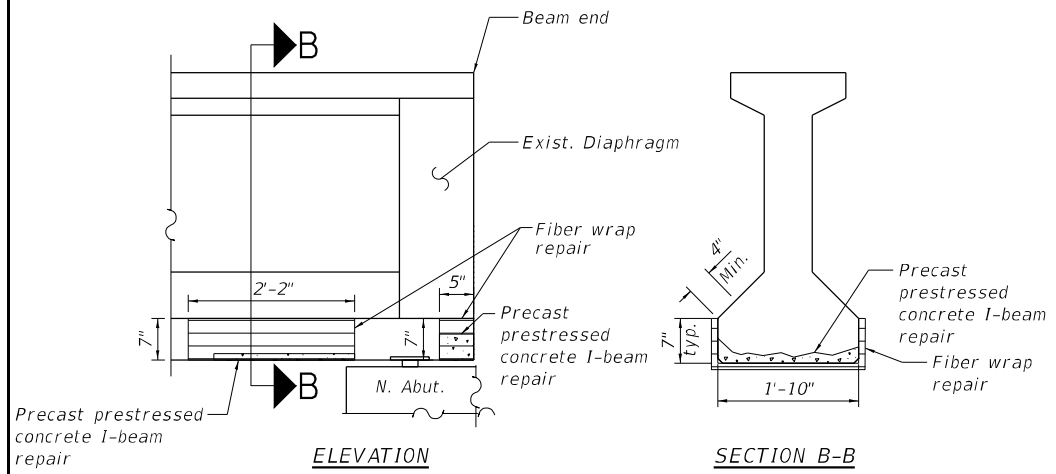
BEAM REPAIR LOCATIONS - FRAMING PLAN
 CLARENDON HILLS RD, BRIDGE OVER I-55 - SN 022-0089

SHEET 3 OF 24 SHEETS

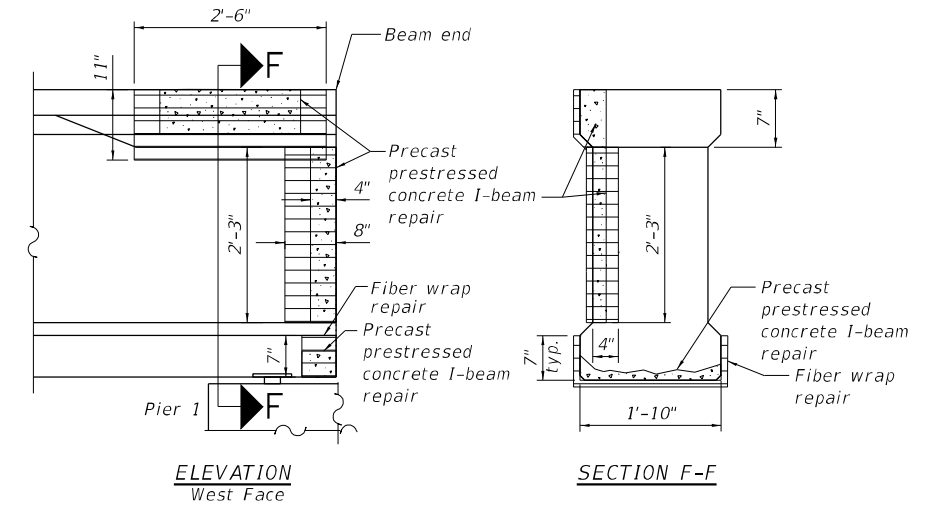
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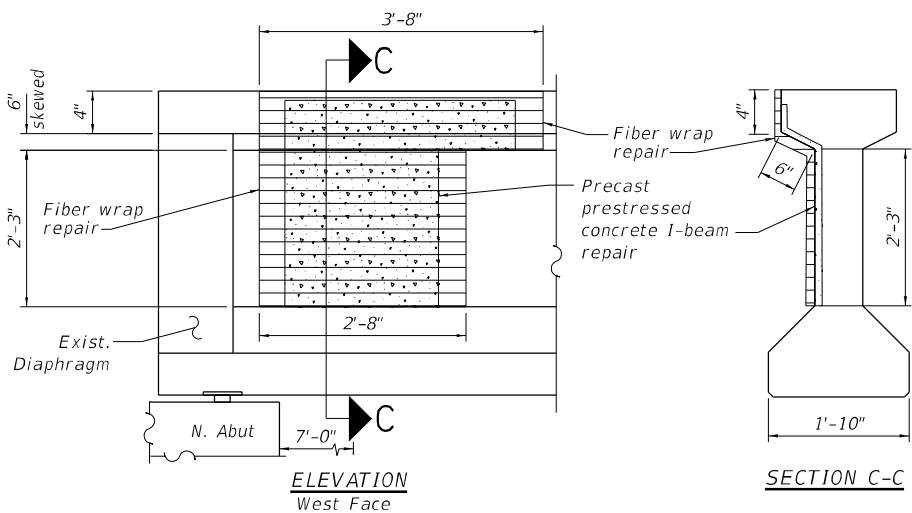
Repair R1, R2, R4 & R5
Beams #2, 4, 8 & 10 at N. Abut.



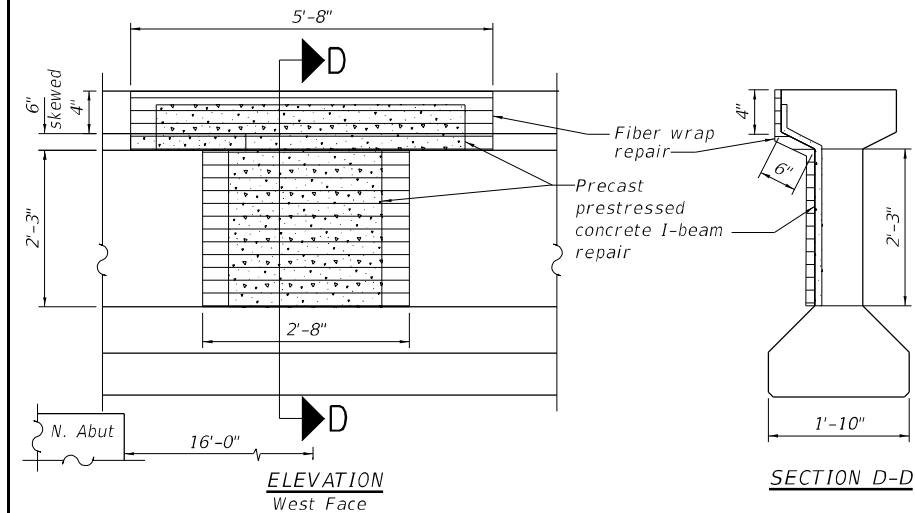
Repair R3
Beam #6 at N. Abut.



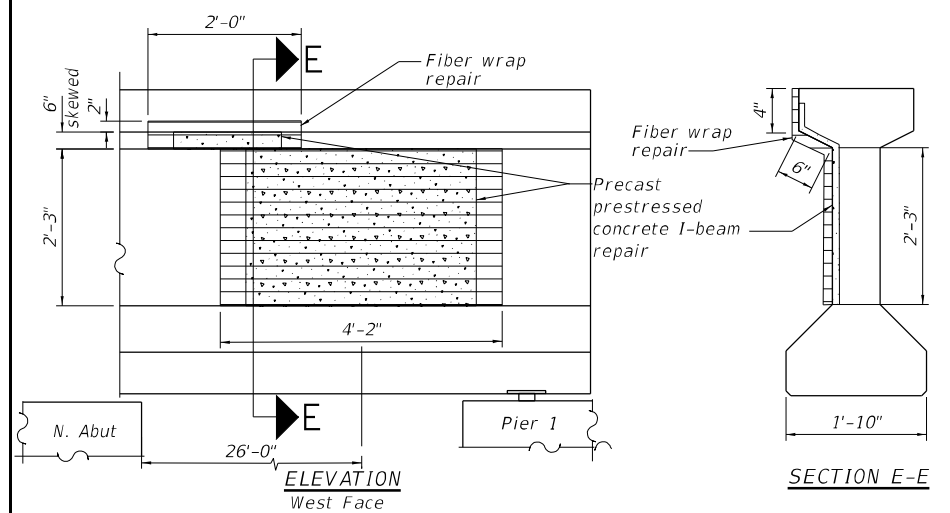
Repair R9
Beam #1 at Pier 1



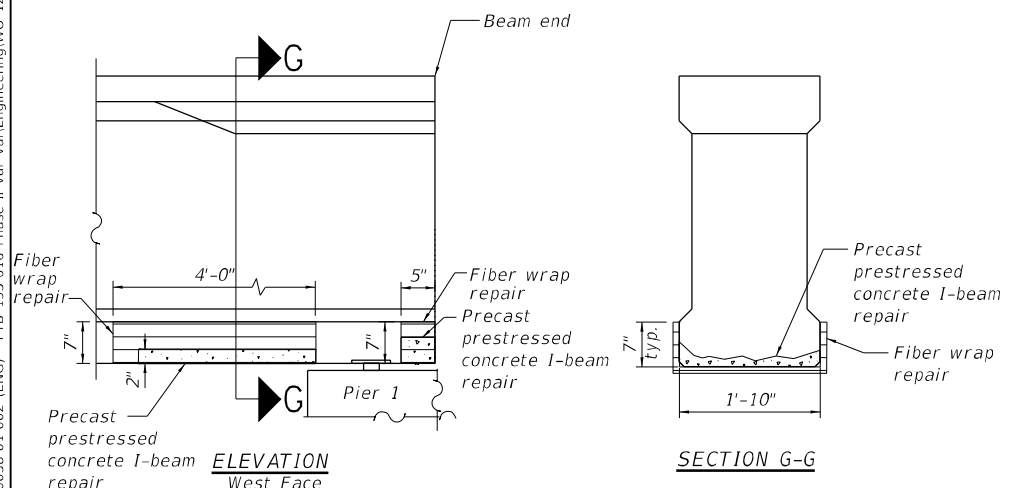
Repair R6
Beam #10 at N. Abut.



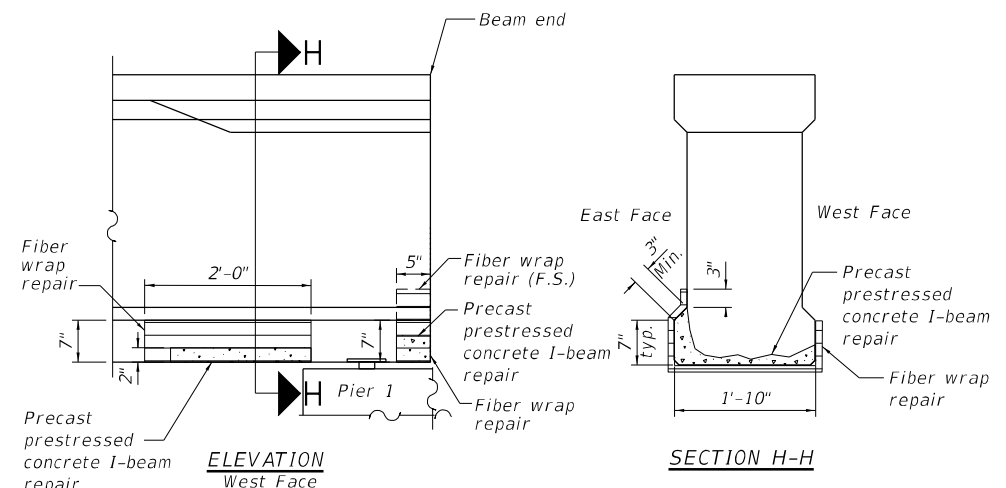
Repair R7
Beam #10 at 16'-0" from face of N. Abut.



Repair R8
Beam #10 near Pier 1



Repair R10
Beam #2 at Pier 1



Repair R11
Beam #4 at Pier 1

LEGEND

	Precast prestressed concrete I-beam repair
	Fiber wrap repair

MODEL: 0220089-D62M64-Span 1-1
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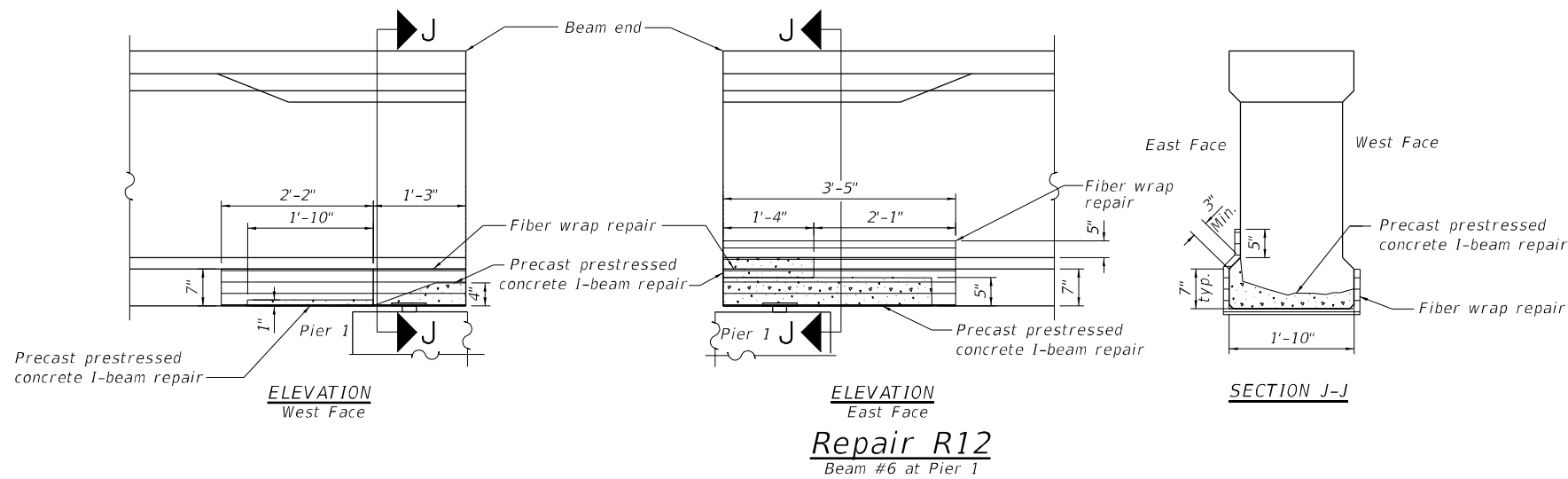
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC BEAM REPAIR DETAILS - SPAN 1
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

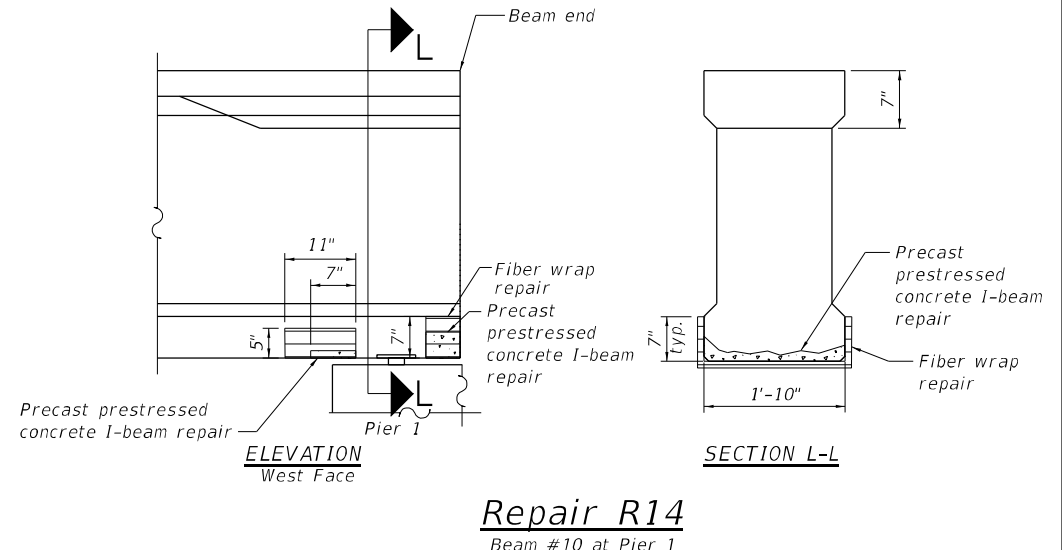
SHEET 4 OF 24 SHEETS

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

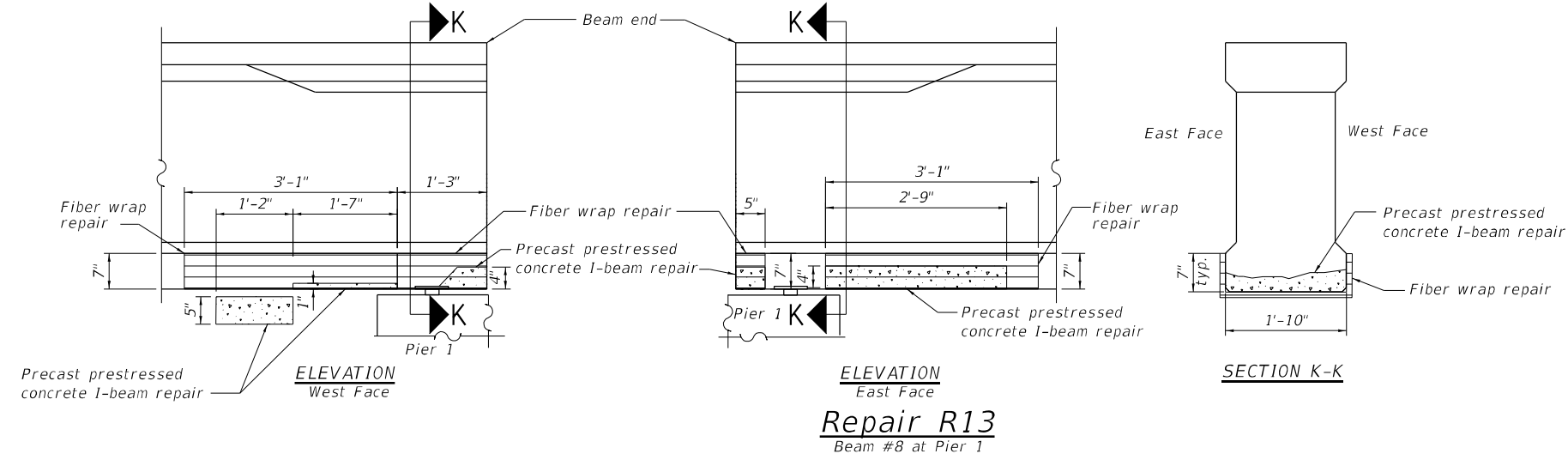
S-4



Repair R12
Beam #6 at Pier 1



Repair R14
Beam #10 at Pier 1



Repair R13
Beam #8 at Pier 1

LEGEND

	Precast prestressed concrete I-beam repair
	Fiber wrap repair

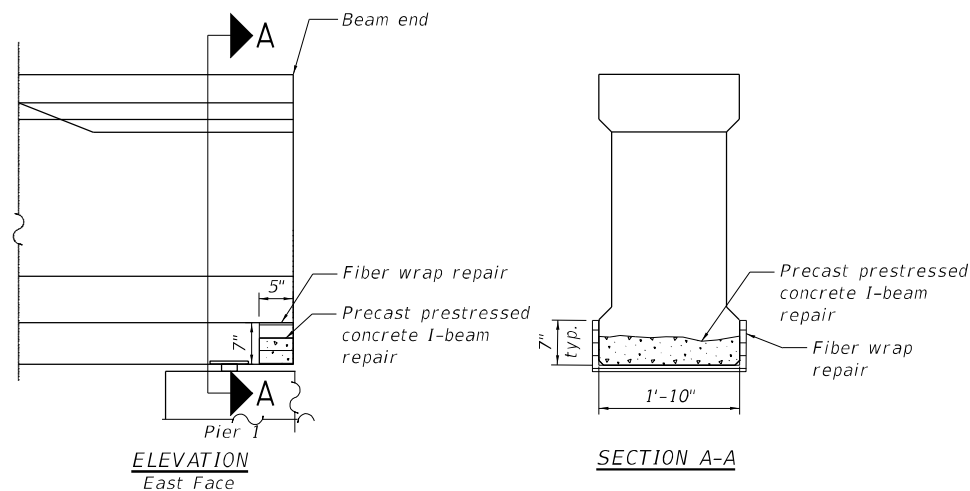
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 311 S. Wacker Drive, Suite 1950
 Chicago, Illinois 60606
 312-464-0360
 www.bowman.com

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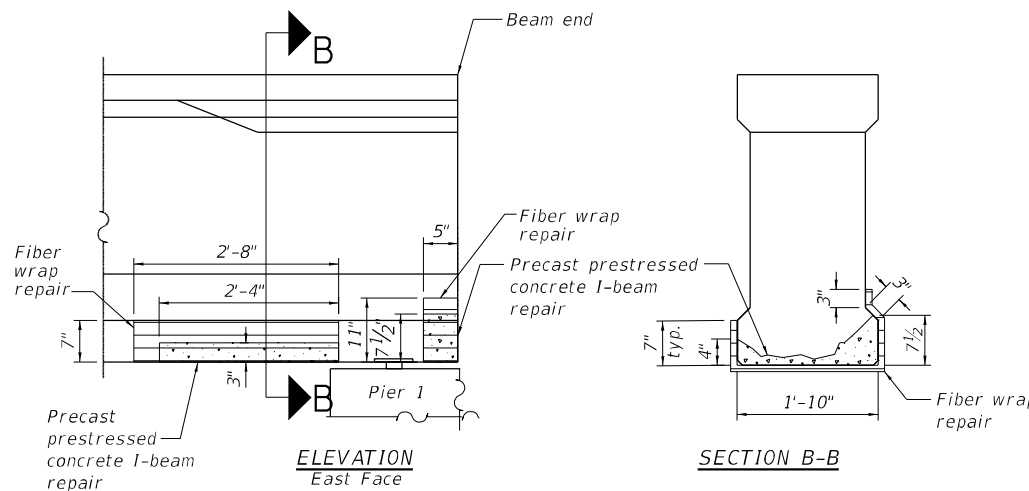
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DEPARTMENT OF TRANSPORTATION

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CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

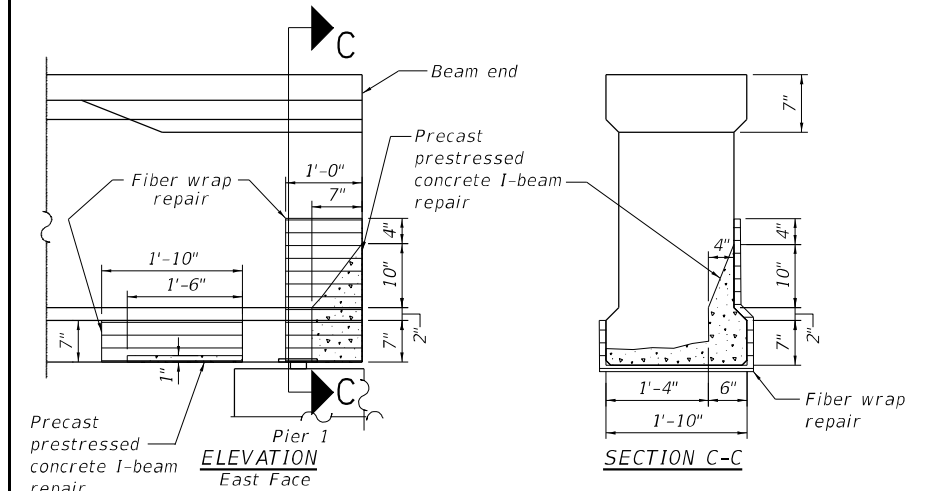
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CONTRACT NO.			62M64	
ILLINOIS FED. AID PROJECT				



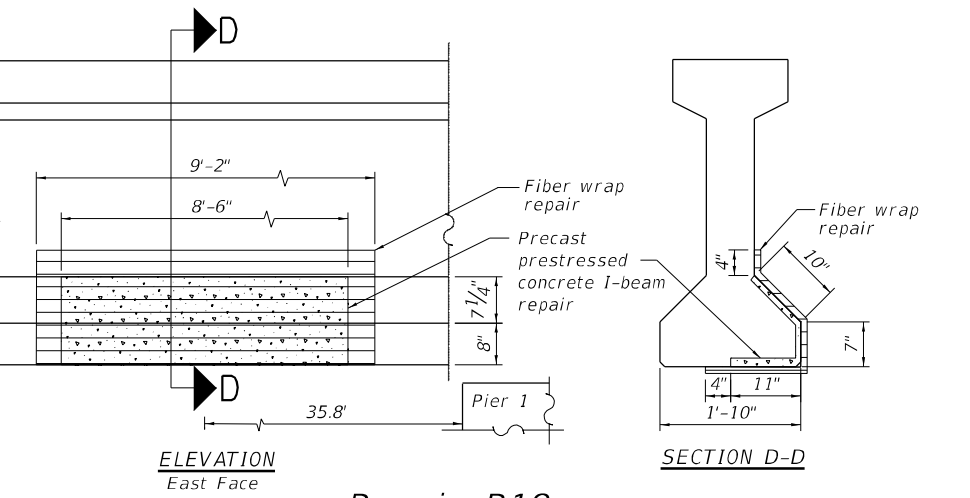
Repair R15
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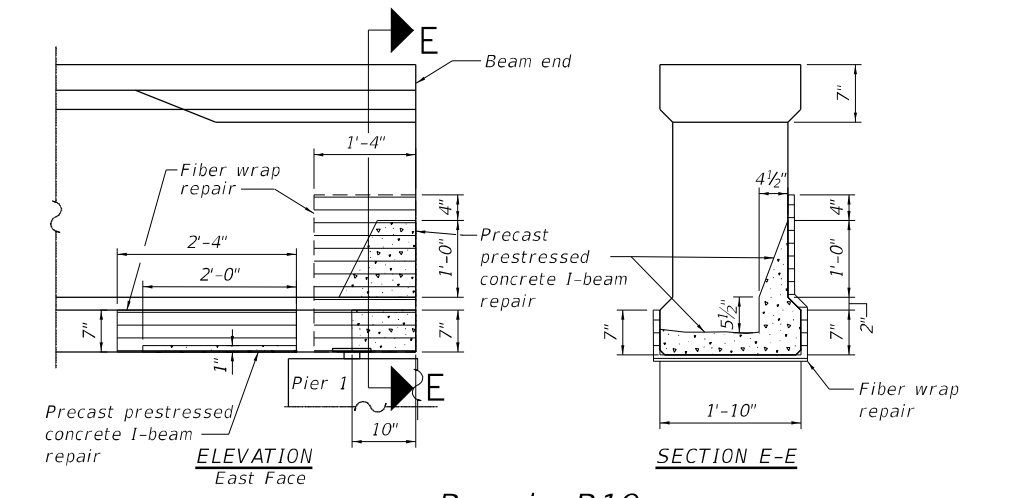
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Beam #2 at Pier #1



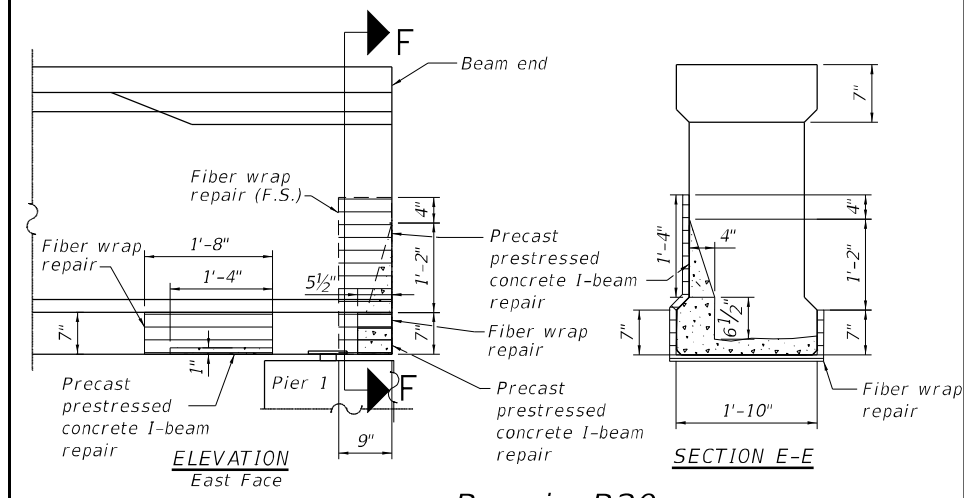
Repair R17
Beam #3 at Pier 1



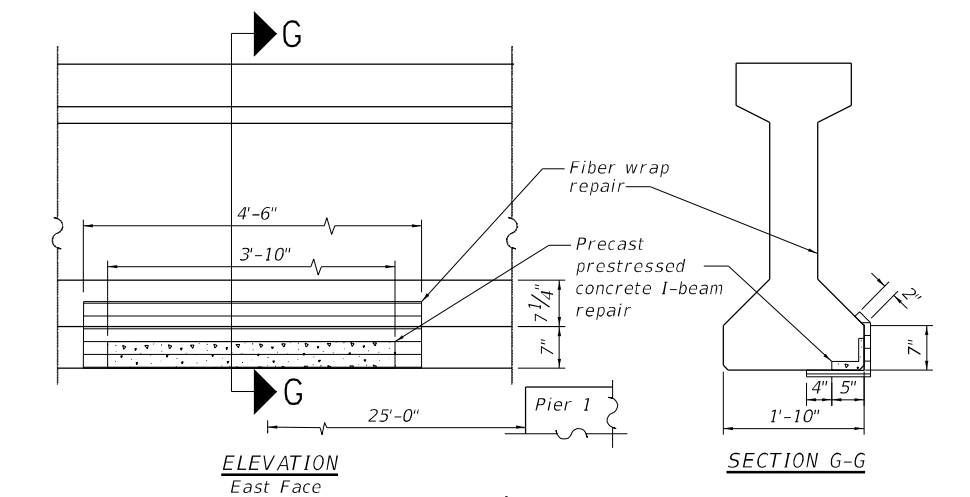
Repair R18
Beam #3 at 35.8' from face of Pier 1.



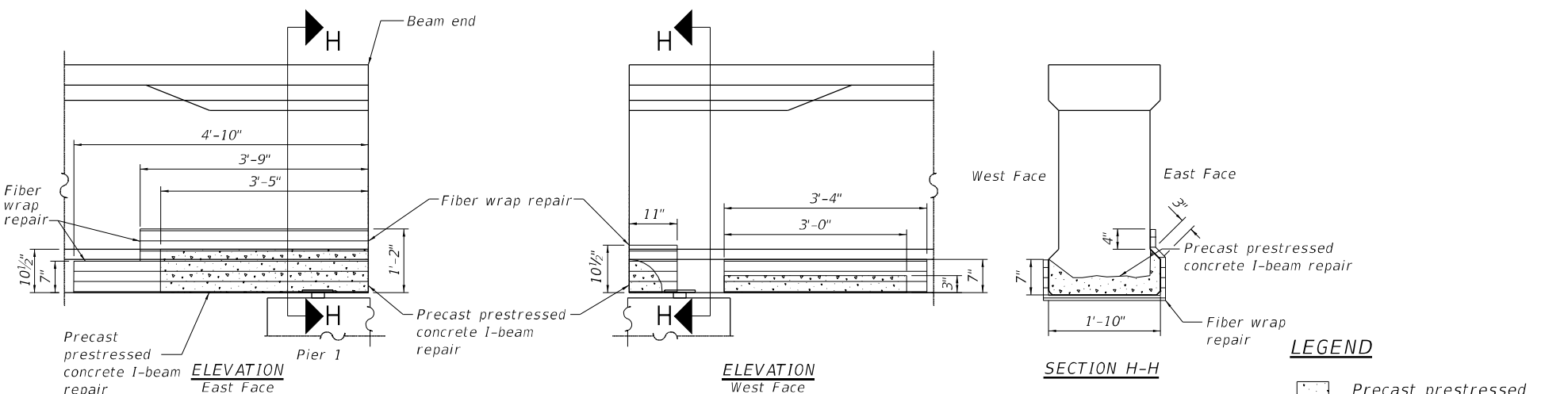
Repair R19
Beam #5 at Pier 1



Repair R20
Beam #5 at Pier 1



Repair R21
Beam #7 at 25'-0" from face of Pier 1.



Repair R22
Beam #9 at Pier 1

LEGEND

- Precast prestressed concrete I-beam repair
- Fiber wrap repair

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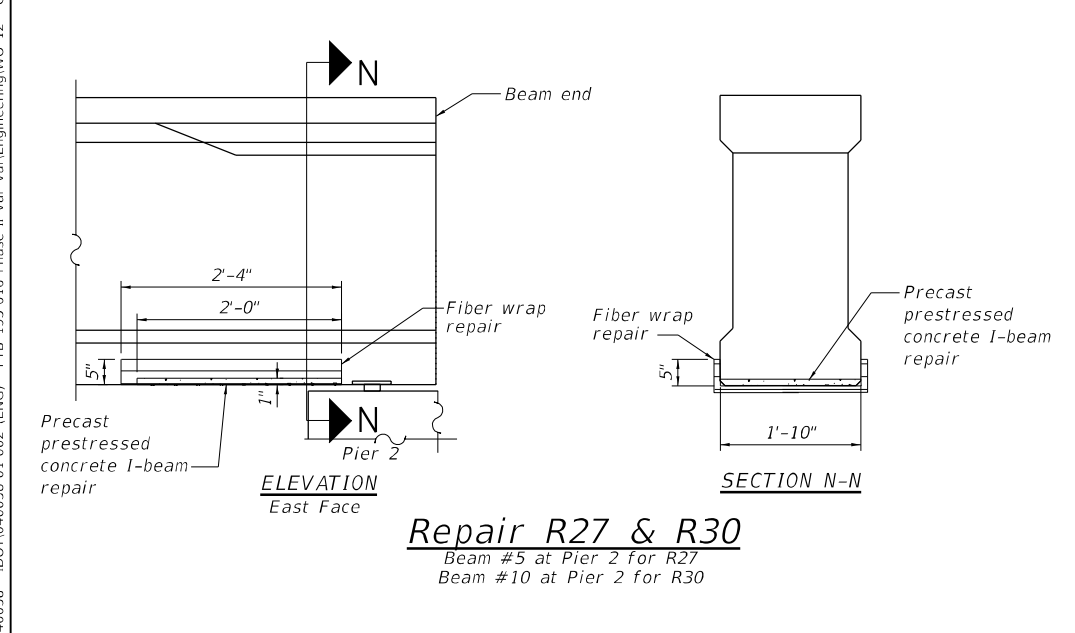
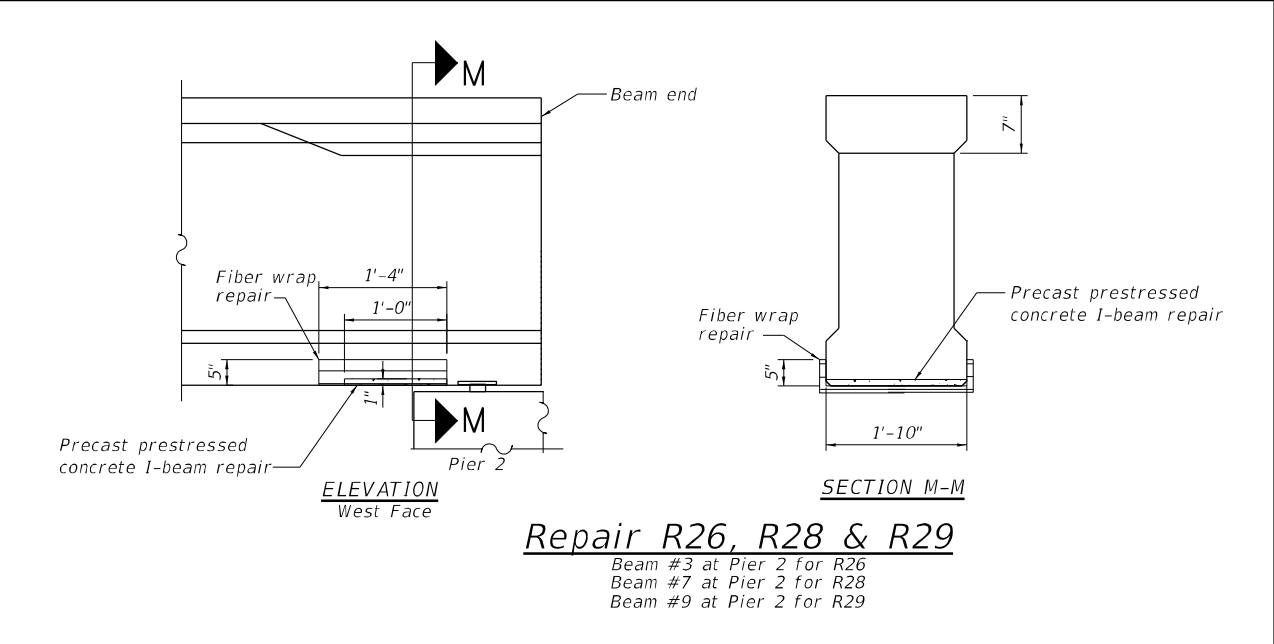
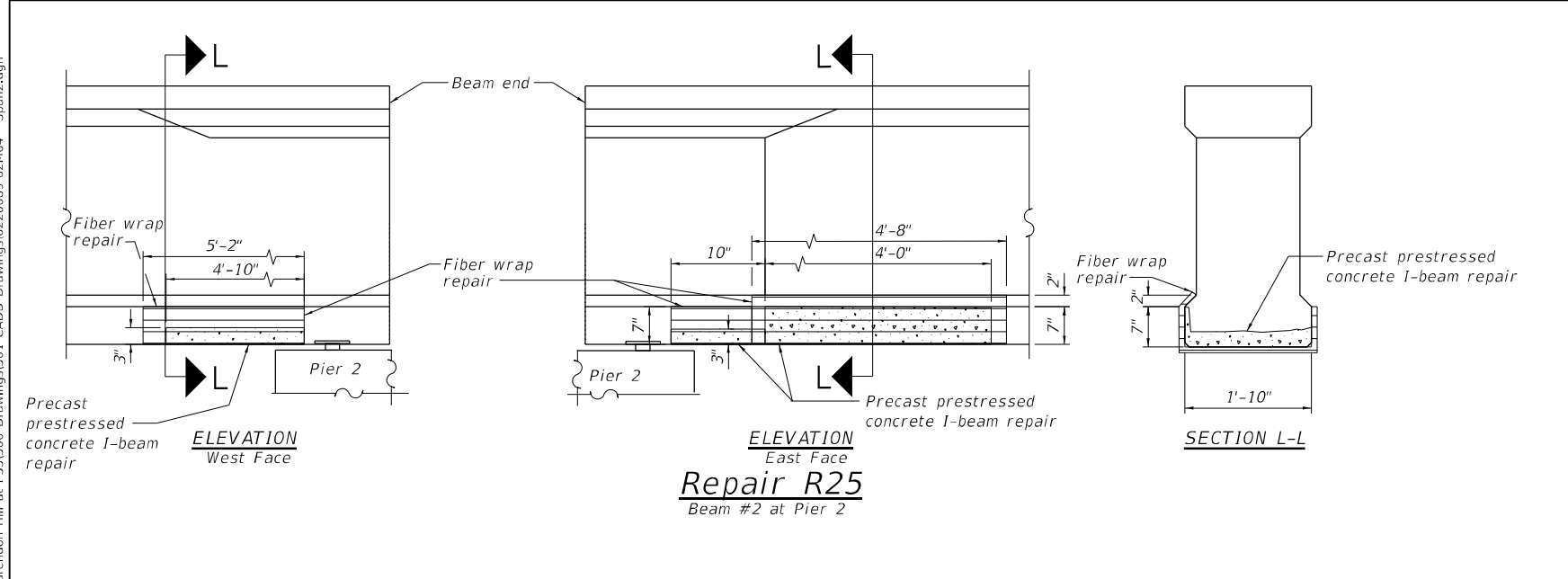
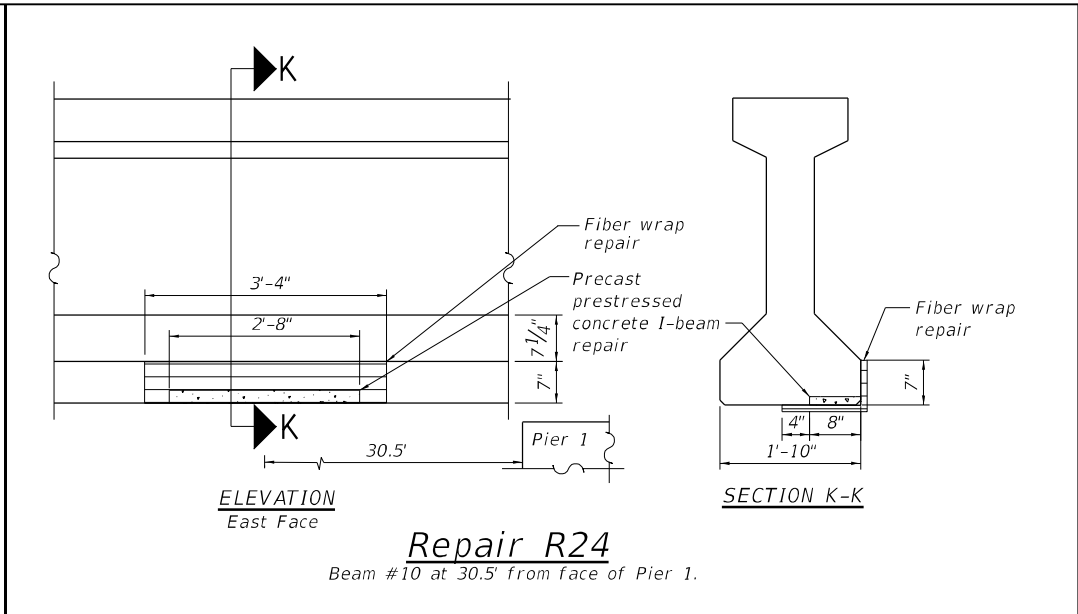
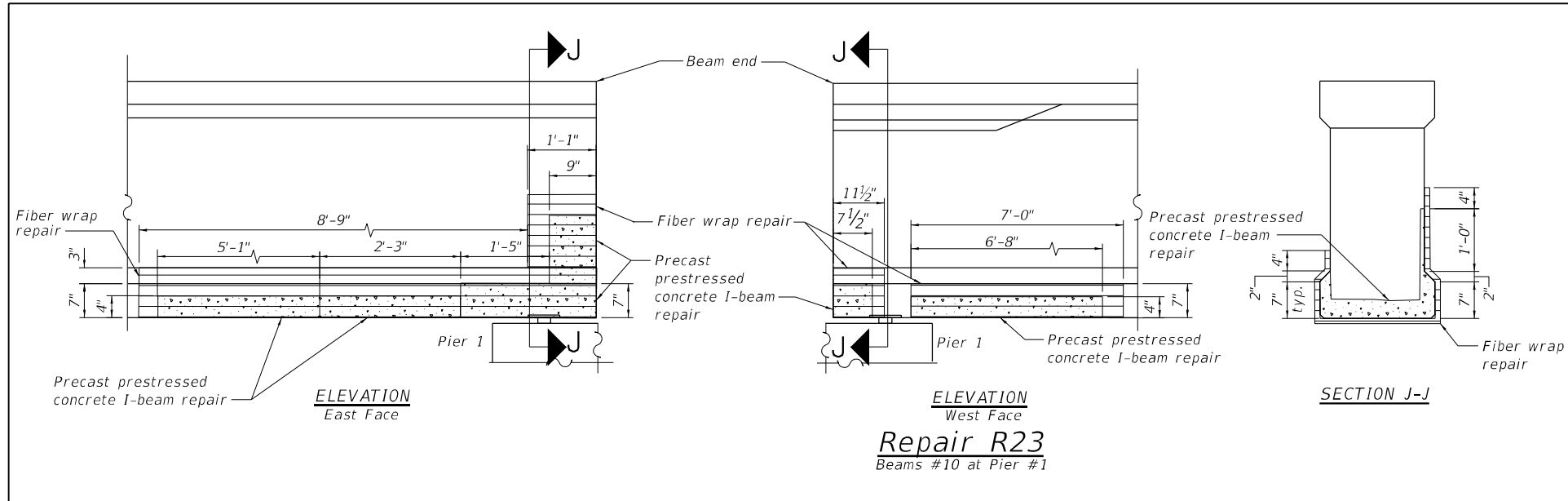
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC BEAM REPAIR DETAILS - SPAN 2
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

SHEET 6 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			62M64	
ILLINOIS FED. AID PROJECT				



LEGEND

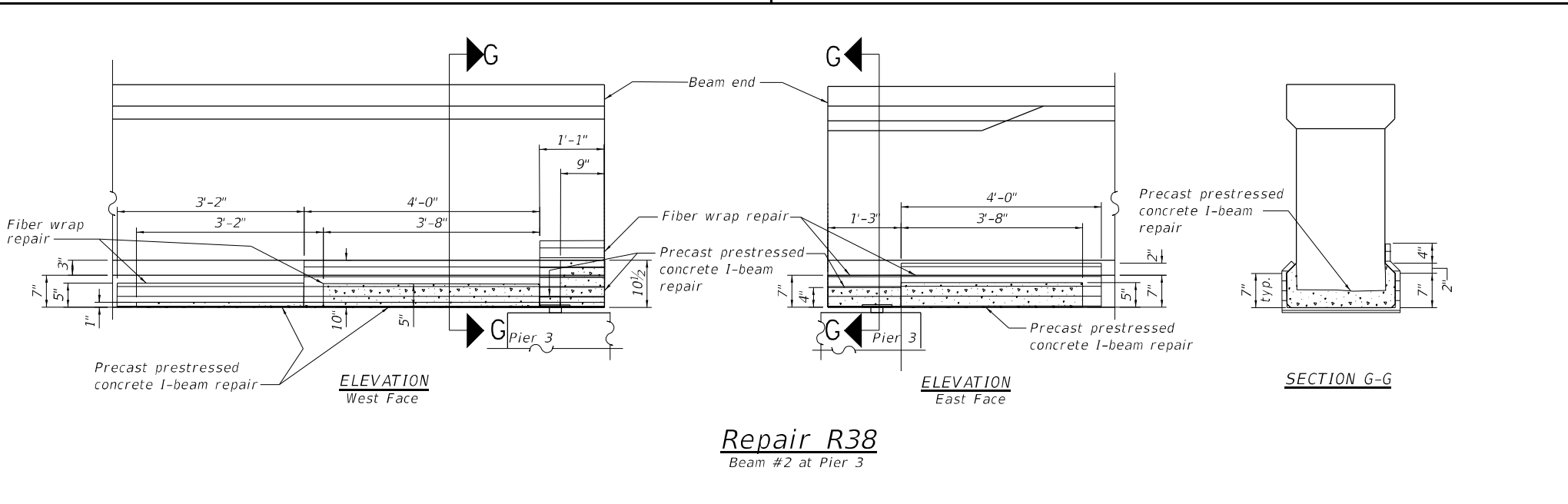
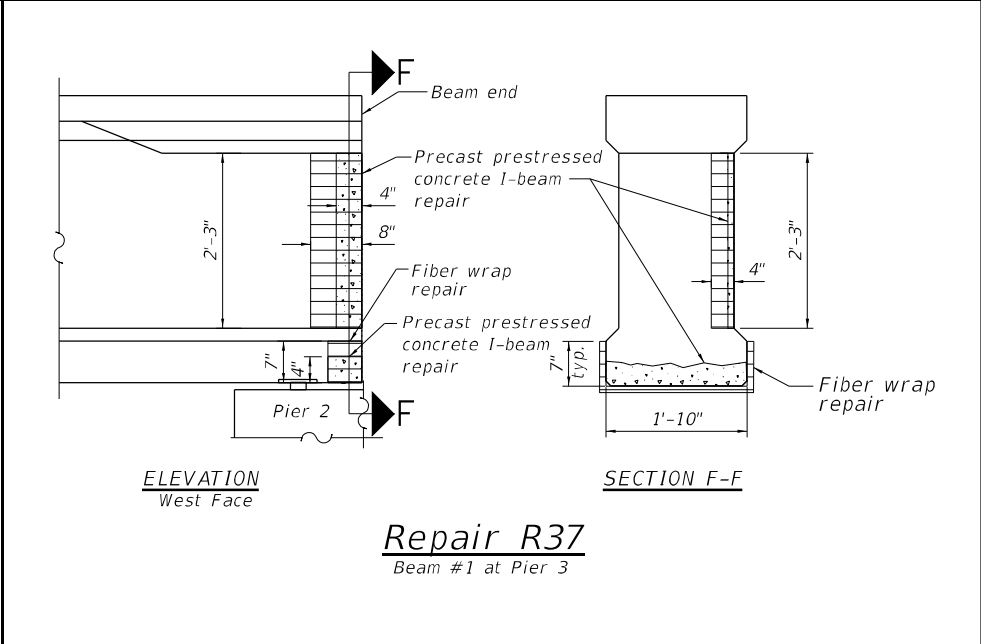
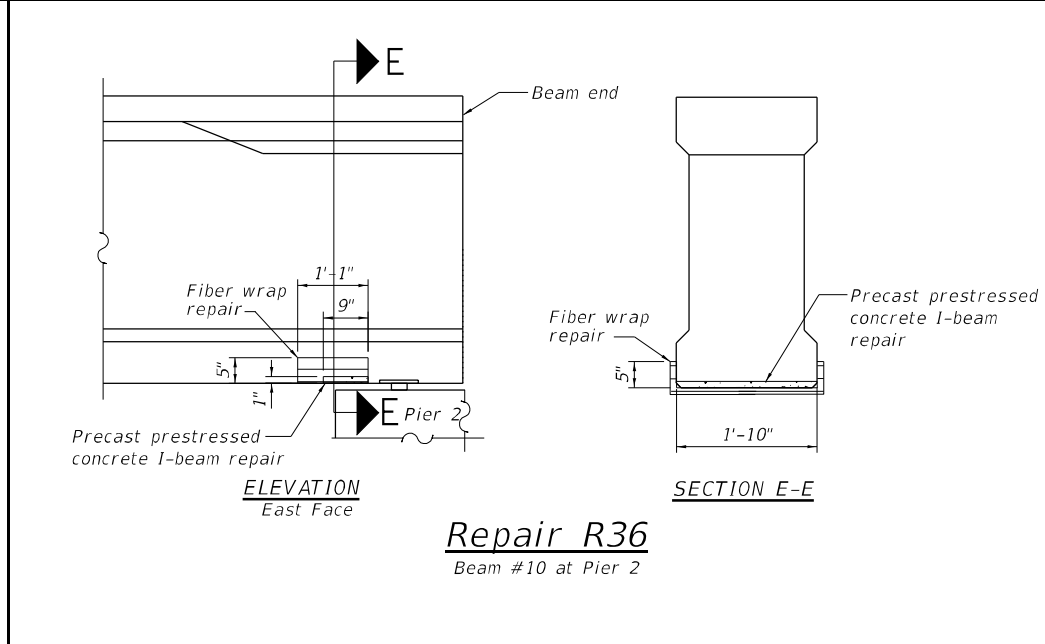
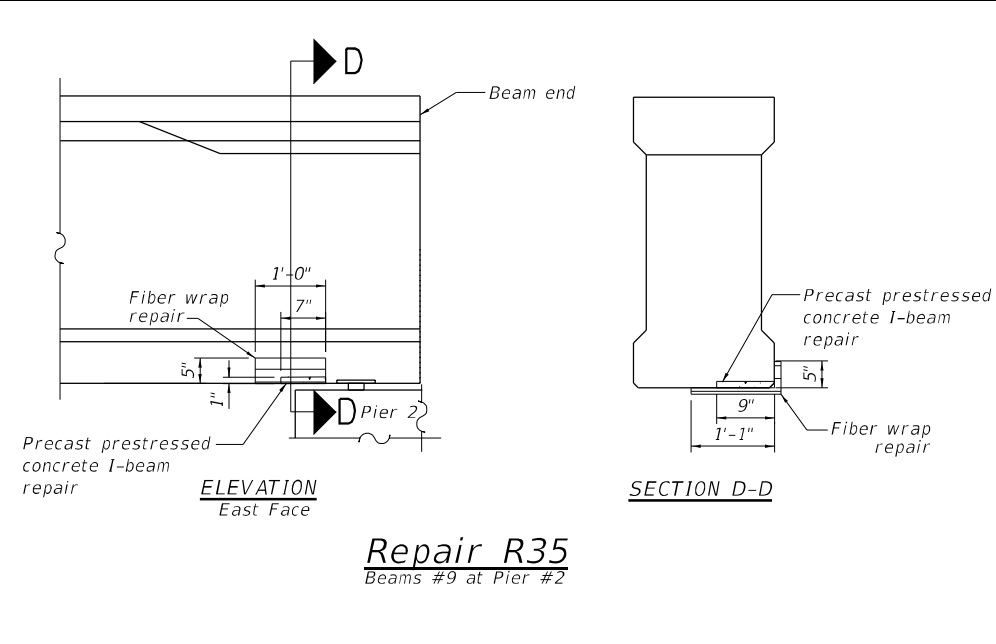
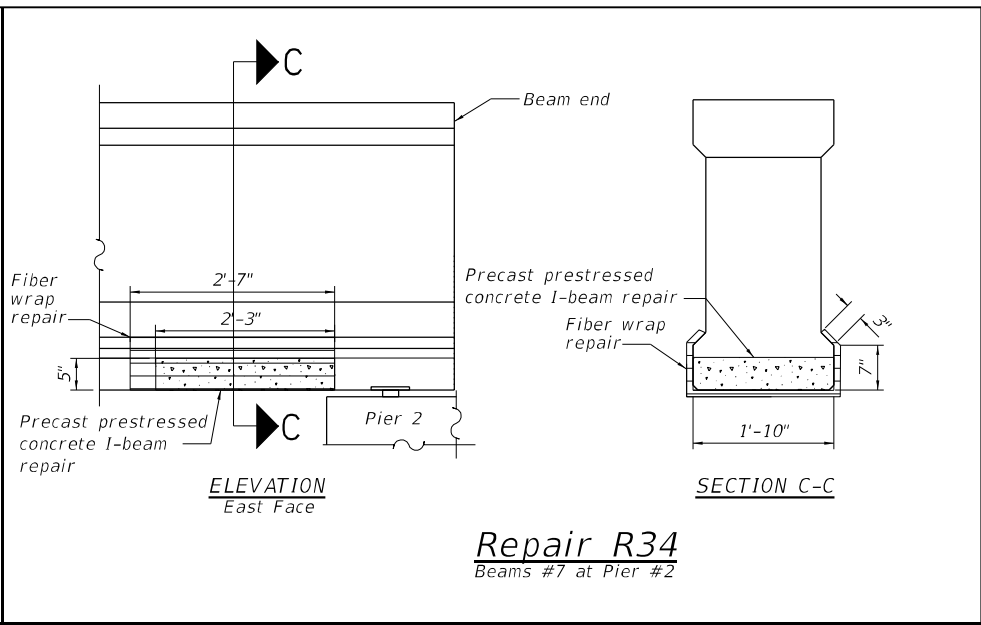
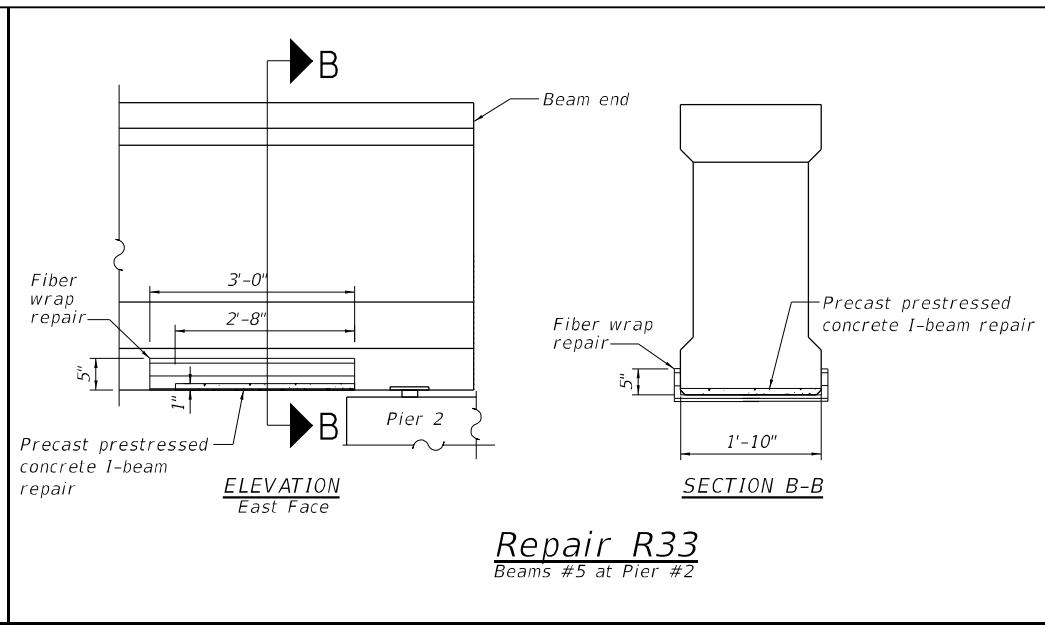
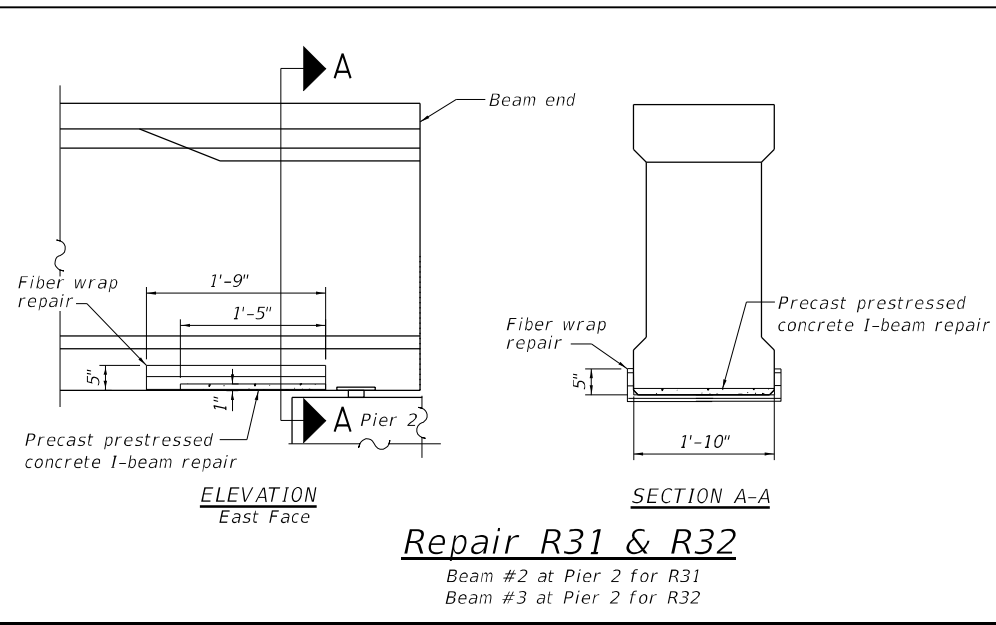
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	Fiber wrap repair

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Bowman	311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-464-0860 www.bowman.com	USER NAME = atiemann	DESIGNED - AHT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PPC BEAM REPAIR DETAILS - SPAN 2 CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089	F.A.I. RTE. = 55	SECTION = 2020-191-BR	COUNTY = DUPAGE	TOTAL SHEETS = 44	SHEET NO. = 20
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LEGEND

	Precast prestressed concrete I-beam repair
	Fiber wrap repair



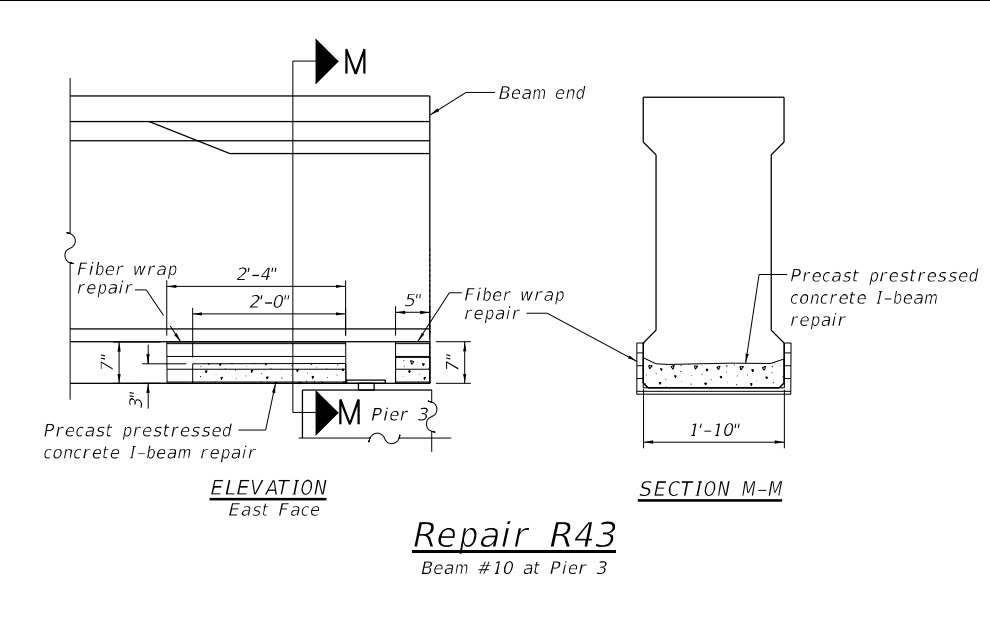
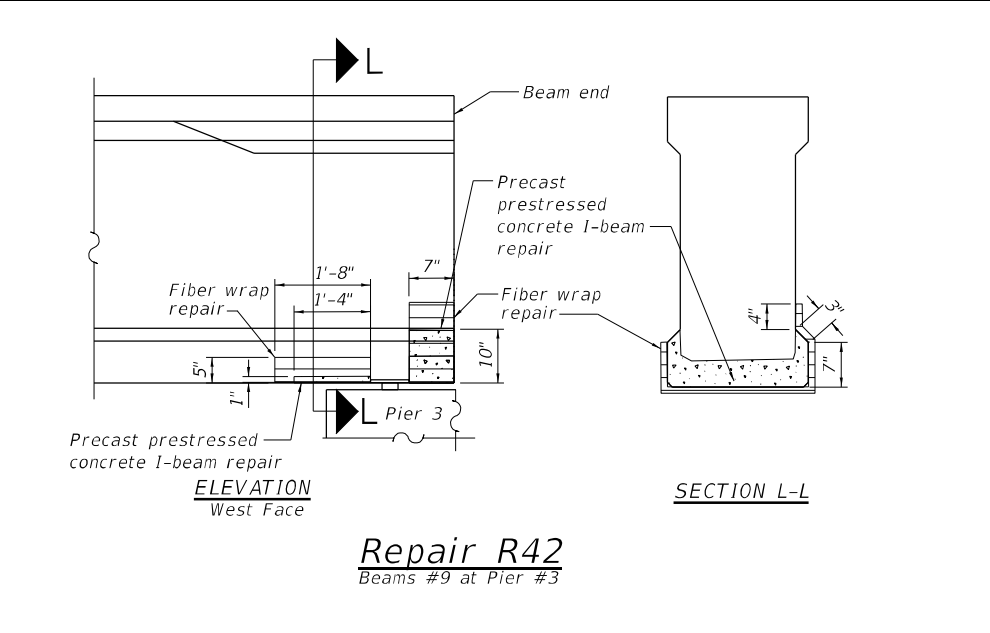
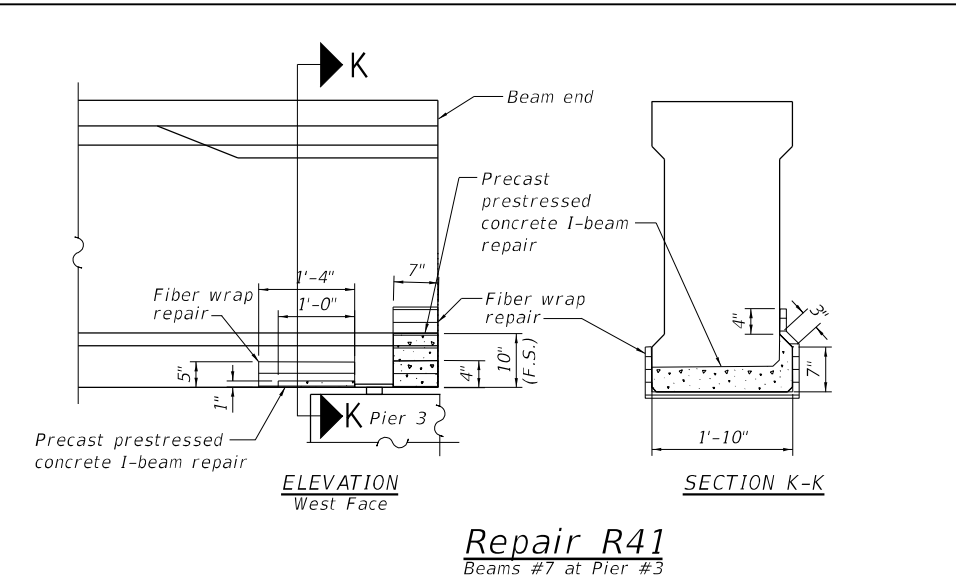
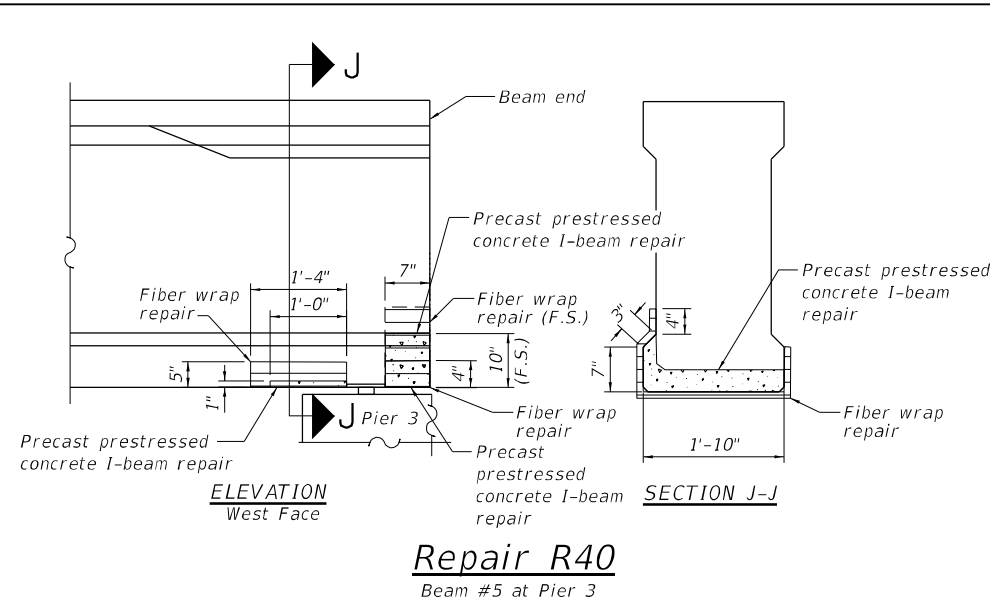
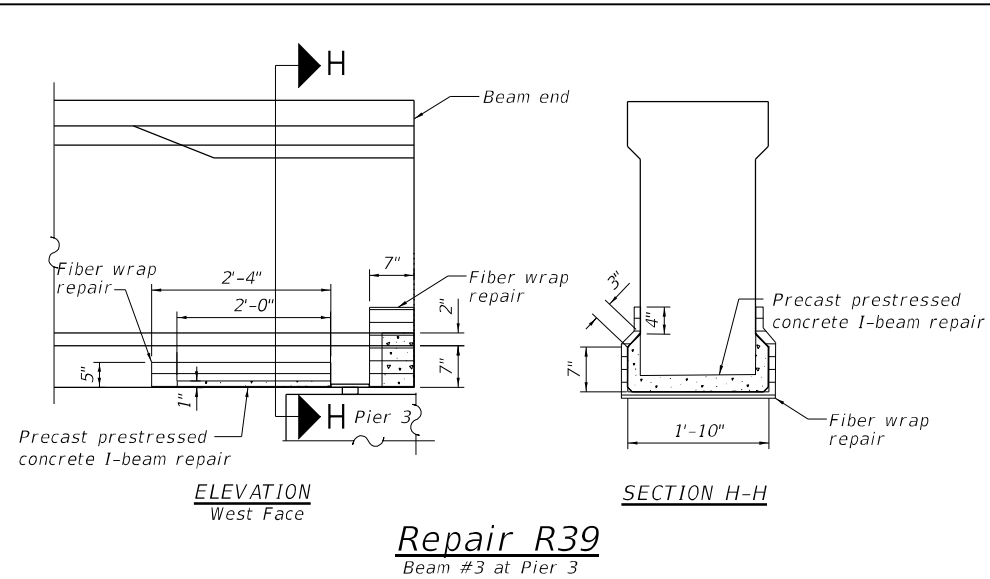
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PPC BEAM REPAIR DETAILS - SPAN 3
 CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

SHEET 8 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	21
CONTRACT NO.			62M64	
ILLINOIS FED. AID PROJECT				



LEGEND

	Precast prestressed concrete I-beam repair
	Fiber wrap repair

MODEL: 0162600-D62M41-Span 3-2
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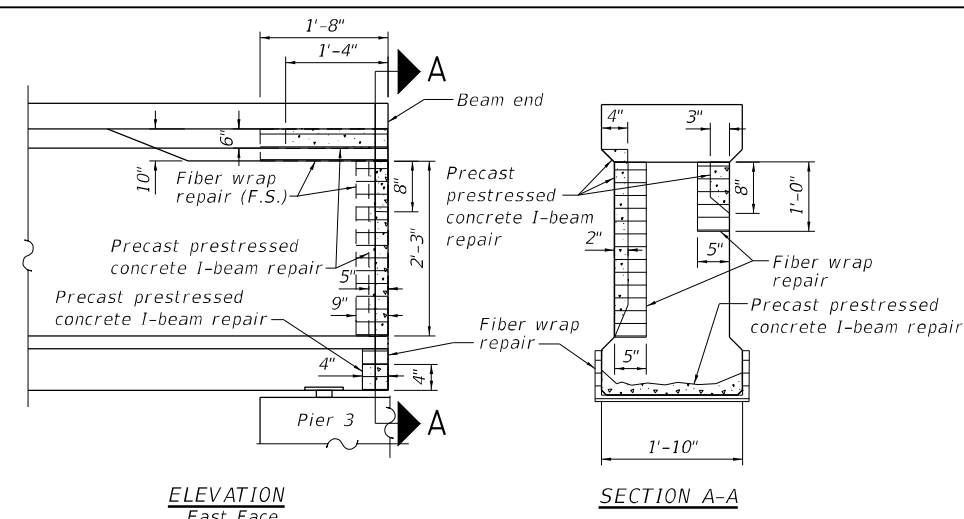
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC BEAM REPAIR DETAILS - SPAN 3
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

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

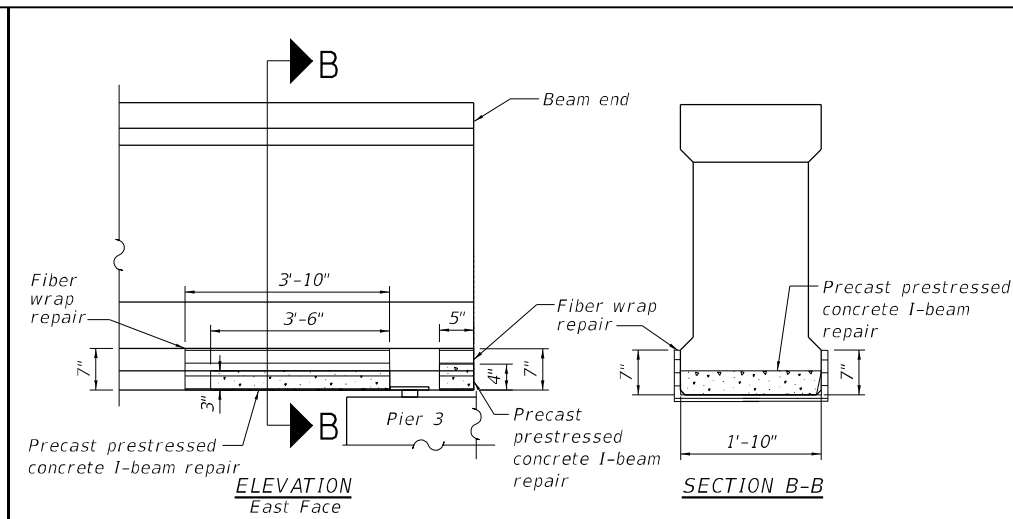
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ELEVATION
East Face

SECTION A-A

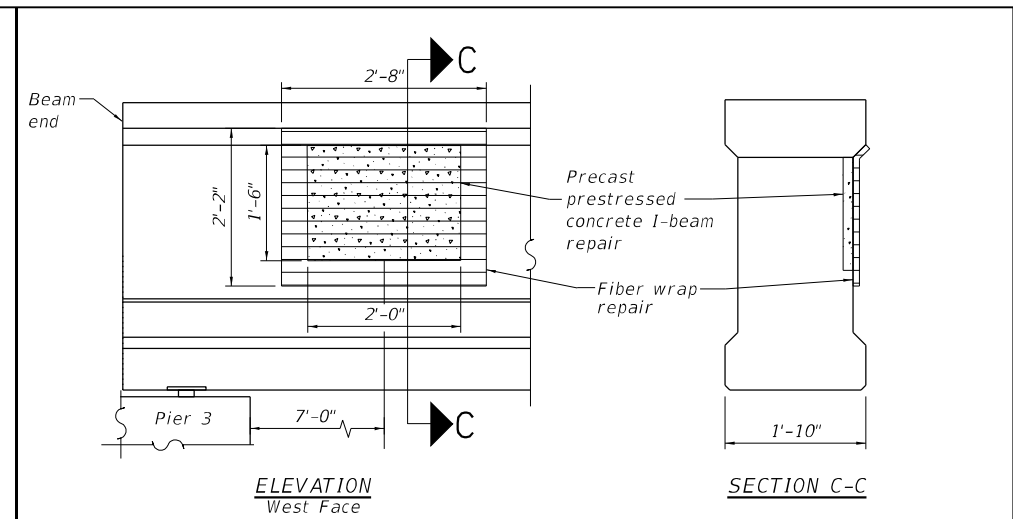
Repair R44
Beam #1 at Pier 3



ELEVATION
East Face

SECTION B-B

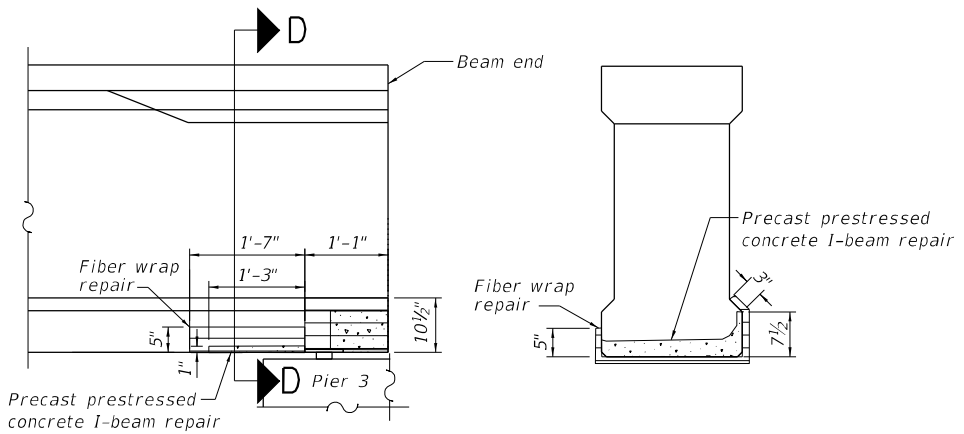
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Beams #2 at Pier #3



ELEVATION
West Face

SECTION C-C

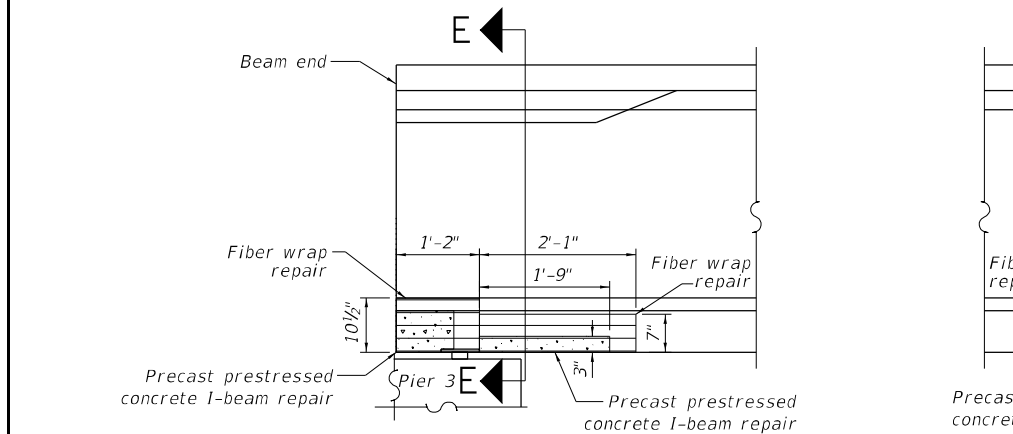
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ELEVATION
East Face

SECTION D-D

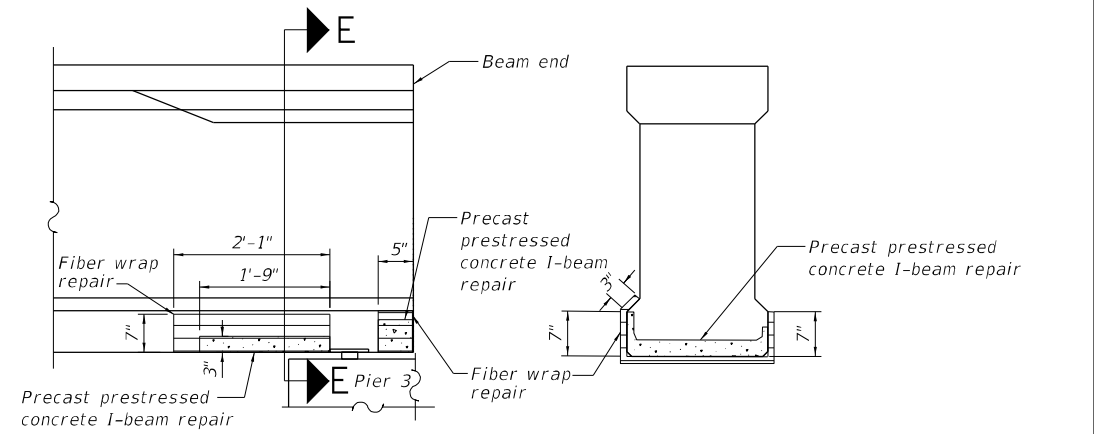
Repair R47
Beams #4 at Pier #3



ELEVATION
West Face

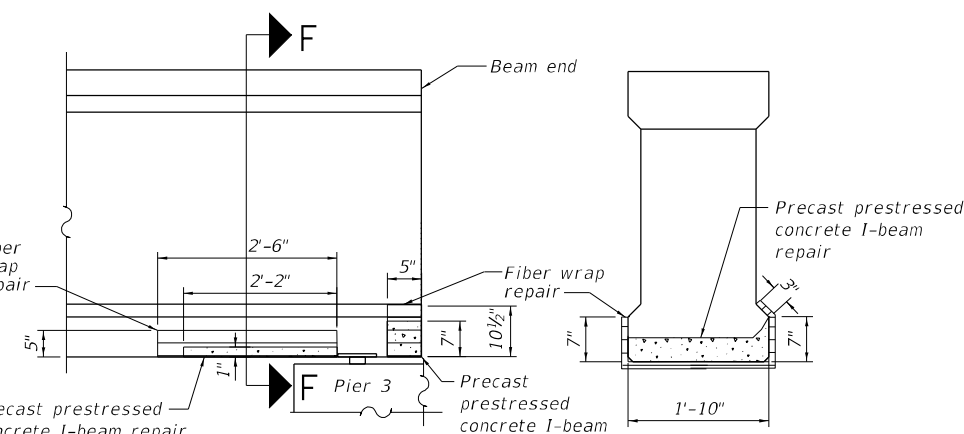
SECTION E-E

Repair R48
Beam #6 at Pier 3



ELEVATION
East Face

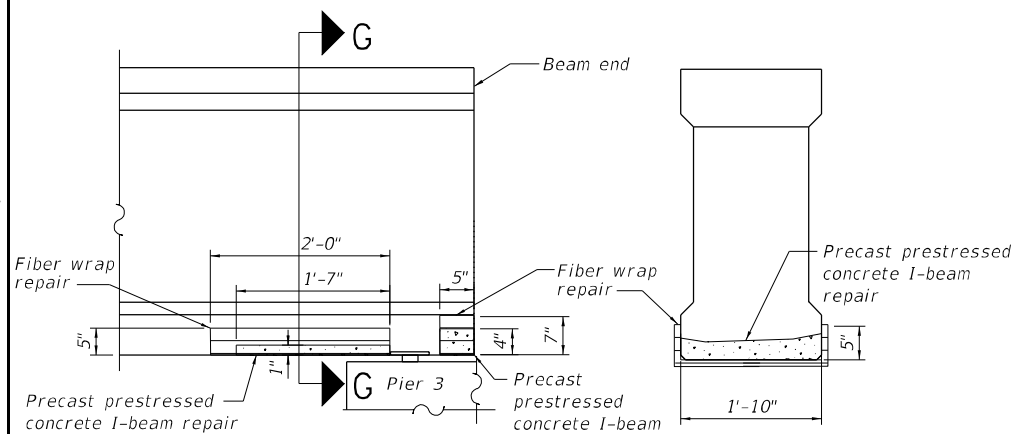
SECTION E-E



ELEVATION
West Face

SECTION F-F

Repair R49
Beam #8 at Pier 3





ELEVATION
East Face

SECTION G-G

Repair R50
Beam #10 at Pier 4

LEGEND

-  Precast prestressed concrete I-beam repair
-  Fiber wrap repair



USER NAME = atiemann
 DESIGNED - AHT
 CHECKED - AJN
 PLOT SCALE = 15:0"/in.
 DRAWN - AHT
 PLOT DATE = 11/16/2021

DESIGNED - AHT
 CHECKED - AJN
 REVISIONS

REVISIONS

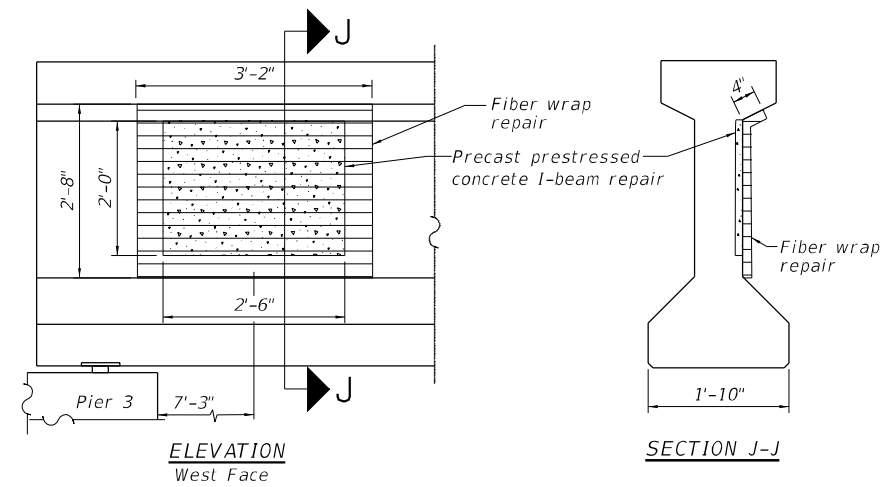
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PPC BEAM REPAIR DETAILS - SPAN 4
 CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

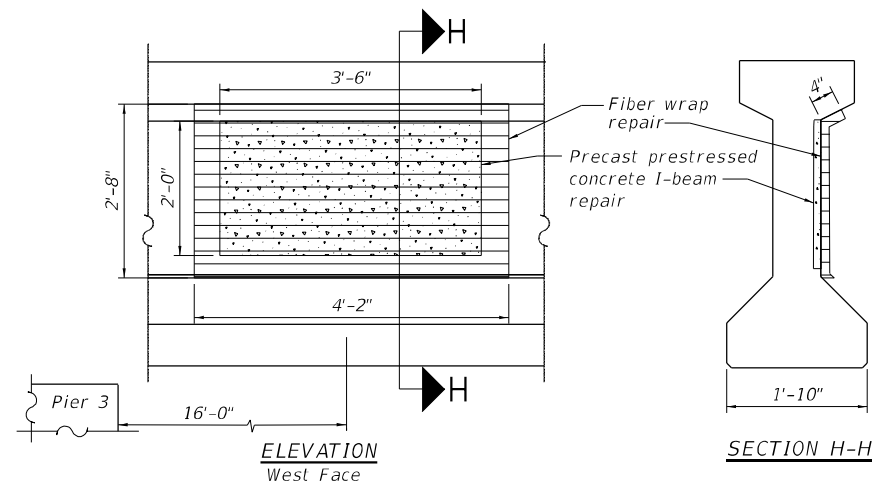
SHEET 10 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	23
CONTRACT NO.			62M64	

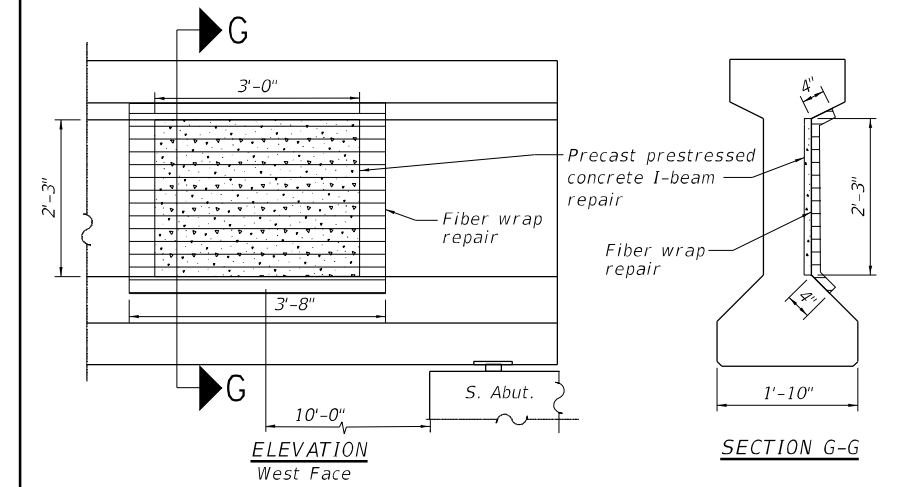
ILLINOIS FED. AID PROJECT



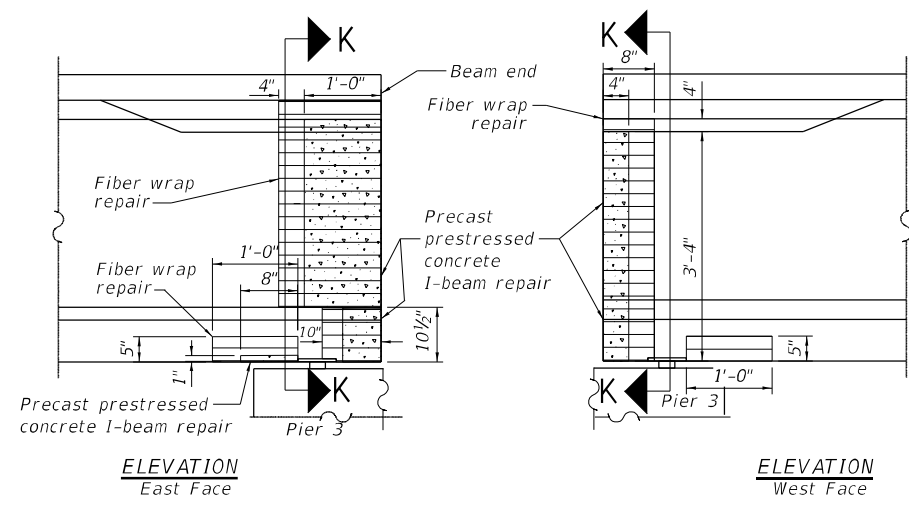
Repair R51
Beam #10 at Pier 3



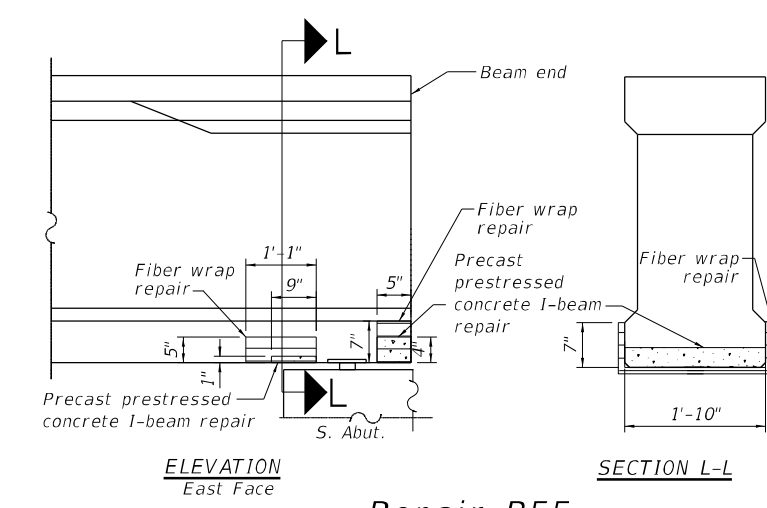
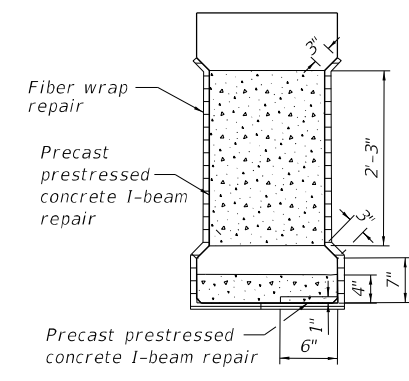
Repair R52
Beam #10 at 16'-0" from face of Pier 3



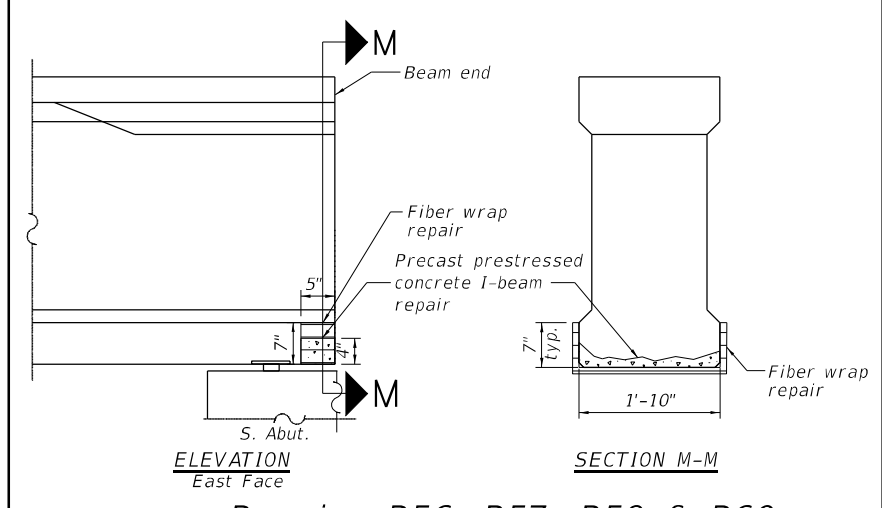
Repair R53
Beam #10 near S. Abut.



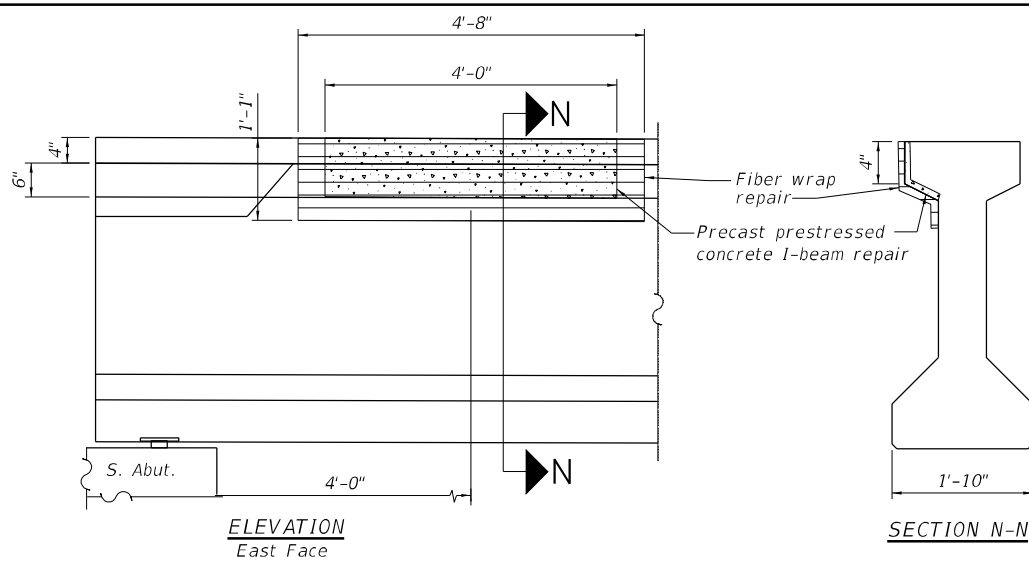
Repair R54
Beams #11 at Pier #3



Repair R55
Beam #2 at S. Abut.



Repairs R56, R57, R59 & R60
Beam #4 at S. Abut for R56
Beam #6 at S. Abut for R57
Beam #10 at S. Abut for R59
Beam #11 at S. Abut for R60



Repair R58
Beam #8 at S. Abut.

LEGEND

- Precast prestressed concrete I-beam repair
- Fiber wrap repair

MODEL: 0162600-D62M41-Span 4-2
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB_195-016 Phase II Var VanEngineering\WO 12 - Clarendon Hill at I-55\51500 Drawings\501 CADD Drawings\0220089-62M64 - Span4.dgn



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 15:0" / in.	CHECKED - AJN	REVISED -
PLOT DATE = 11/16/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PPC BEAM REPAIR DETAILS - SPAN 4
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089**

SHEET 11 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	

MODEL: 0220089-D62M64-012
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NO	SPAN	BEAM	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR (SF)	FIBER WRAP (SF)
R1	1	2	0.89	1.25
R2	1	4	0.89	1.25
R3	1	6	4.56	7.75
R4	1	8	0.89	1.25
R5	1	10	0.89	1.25
R6	1	10	6.75	9.06
R7	1	10	8.25	10.72
R8	1	10	8.63	10.33
R9	1	1	2.86	5.79
R10	1	2	8.83	13.25
R11	1	4	4.54	7.35
R12	1	6	7.42	12.0
R13	1	8	5.37	14.64
R14	1	10	1.96	3.69
R15	2	1	0.89	1.25
R16	2	2	6.29	9.39
R17	2	3	4.96	9.83
R18	2	3	20.90	27.5
R19	2	5	6.51	12.78
R20	2	7	3.68	8.63
R21	2	7	3.19	13.5
R22	2	9	10.35	14.21
R23	2	10	11.36	25.85
R24	2	10	2.22	5.56
R25	2	2	12.40	17.08
R26	2	3	2.0	3.56
R27	2	5	4.0	6.22
R28	2	7	2.0	3.56
R29	2	9	2.0	3.56
R30	2	10	4.0	6.22

NO	SPAN	BEAM	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR (SF)	FIBER WRAP (SF)
R31	3	2	2.83	3.56
R32	3	3	2.83	3.56
R33	3	5	5.33	8.0
R34	3	7	5.91	9.04
R35	3	9	0.54	1.50
R36	3	10	1.50	2.89
R37	3	1	1.64	1.99
R38	3	2	12.12	16.75
R39	3	3	5.67	8.65
R40	3	5	3.18	5.79
R41	3	7	3.35	5.79
R42	3	9	4.11	6.88
R43	3	10	5.22	8.25
R44	4	1	2.82	4.88
R45	4	2	8.92	13.25
R46	4	2	3.0	5.78
R47	4	4	3.72	7.61
R48	4	6	5.10	7.86
R49	4	8	4.45	8.04
R50	4	10	3.99	6.58
R51	4	10	5.0	8.44
R52	4	10	7.0	11.11
R53	4	10	6.75	9.85
R54	4	11	6.12	10.40
R55	4	2	2.39	4.14
R56	4	4	0.89	1.25
R57	4	6	0.89	1.25
R58	4	8	3.33	5.06
R59	4	10	0.89	1.25
R60	4	11	0.89	1.25

Notes:

- Repairs shown are based on field inspection. Conditions in field may have changed. Verify all dimensions in the field prior to ordering any material or commencement of any work.
- It is the contractor's responsibility to work around existing utilities in the fiber wrap repair area
- It is the contractor's responsibility to remove any protrusions in the concrete in the Fiber Wrap repair area.
- Repair method for delamination and/or spall shall require Precast Prestressed Concrete I-Beam Repair prior to Fiber Wrap repair
- Surface must be clean, sound, and dry. Remove dust laitance, grease, curing compounds, impregnations waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface.
- Existing uneven surfaces must be filled with an appropriate polymer concrete.
- Beam corners shall be rounded to at least 3/4" radius and smoothed to a surface finish prior to application of fibers.
- System is a vapor barrier, don't encapsulate concrete if any surface moisture is present. Carbon fabric is non reactive. However, caution must be used when handling since a fine "carbon dust" may be present on the surface.
- Gloves and protective face masks must therefore be worn to protect against any respiratory problems and skin irritation. Wrap the identified girders with the specified number of wraps as indicated on this sheet.
- The contractor shall take all necessary precautions for the protection of passing vehicles from falling objects and/or materials until completion of the work.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Precast Prestressed Concrete I-Beam Repair	SQ. FT.	279.9
Fiber Wrap	SQ. FT.	458.9



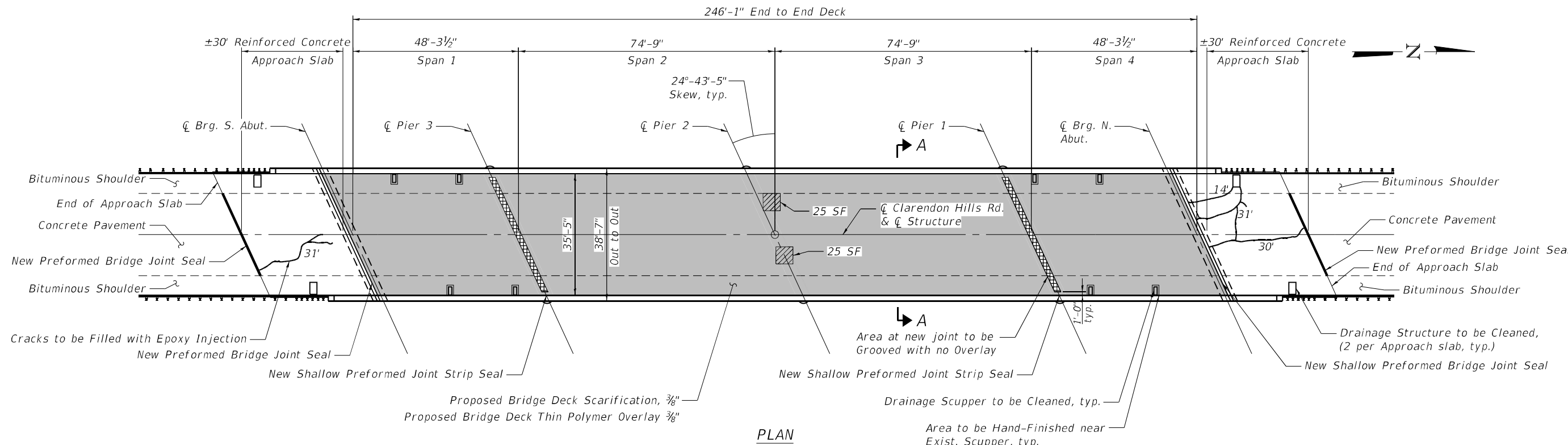
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PLOT DATE = 11/16/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

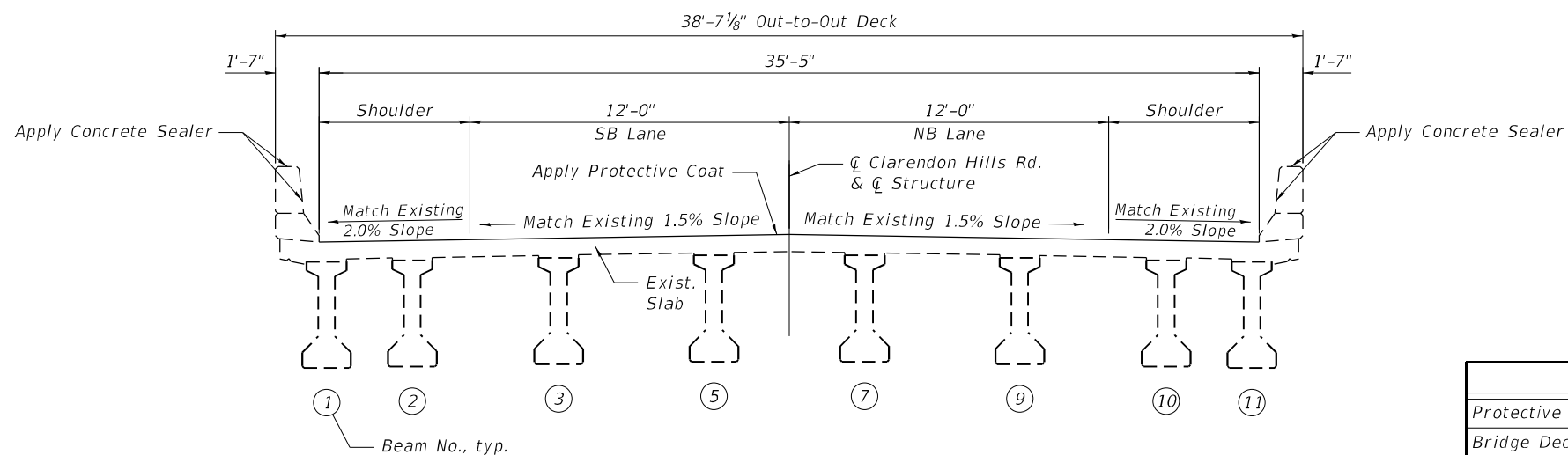
PPC BEAM REPAIR DETAILS & NOTES
CLARENDON HILLS RD, BRIDGE OVER I-55 - SN 022-0089

SHEET 12 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	



PLAN



SECTION A-A
(Interior Span, Looking North)

LEGEND

- Deck Slab Repair, Partial Depth
- 3/8" Scarification and Thin Polymer Overlay
- Epoxy Crack Injection
- Bridge Deck Grooving

BILL OF MATERIAL

Item	Unit	Total
Protective Coat	Sq. Yd.	1,007
Bridge Deck Thin Polymer Overlay 3/8"	Sq. Yd.	979.0
Concrete Bridge Deck Scarification 3/8"	Sq. Yd.	979.0
Deck Slab Repair (Partial)	Sq. Yd.	5.6
Concrete Sealer	Sq. Ft.	1,903
Cleaning Bridge Scuppers and Downspouts	Each	8
Drainage Structures to be Cleaned	Each	4
Preformed Joint Seal 1 1/2"	Foot	82.0
Preformed Joint Seal 3 1/2"	Foot	54.0
Epoxy Crack Injection	Foot	106
Bridge Deck Grooving	Sq. Yd.	14

Notes:

1. All drainage scuppers must be protected during concrete scarification and overlay placement operations.
2. Use of hand tools is required while working around the scuppers.
3. Hand finish of overlay material is required around the scuppers. The cost is included in Bridge Deck Thin Polymer Overlay 3/8".
4. Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

MODEL: 0220089-D62M64-013
 FILE NAME: P:\040058-01-002 (ENG) - PTB_195-016 Phase II Var VanEngineering\WO 12 - Clarendon Hill at I-55\1500 Drawings\501 CADD Drawings\0220089-D62M64.dgn
 311 S. Wacker Drive, Suite 1950
 Chicago, Illinois 60606
 312-454-0580
 www.bowman.com

11/16/2021 1:25:31 PM



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 31:9 3/16 ft/in.	CHECKED - AJN	REVISED -
PLOT DATE = 11/16/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

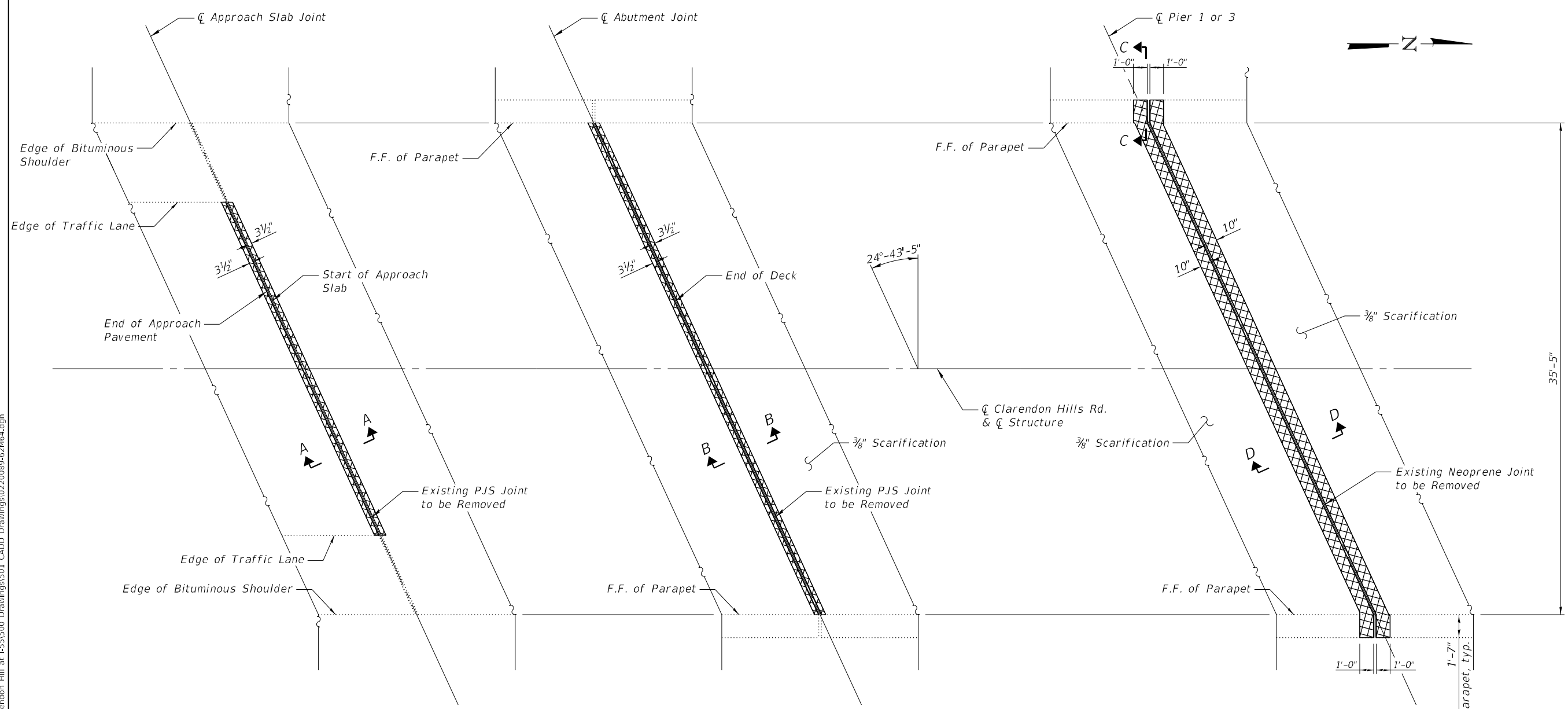
BRIDGE DECK THIN POLYMER OVERLAY & PARAPET SEALING
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

SHEET 13 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	26
CONTRACT NO.			62M64	
ILLINOIS FED. AID PROJECT				

S-13

MODEL: 0220089-D62M64-01.14
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CONCRETE REMOVAL PLAN @ END OF APPROACH SLAB
 South Approach Shown, North Approach Similar

CONCRETE REMOVAL PLAN @ ABUTMENTS
 South Abutment Shown, North Abutment Similar

CONCRETE REMOVAL PLAN @ PIERS 1 & 3

LEGEND

Concrete Removal

Notes:

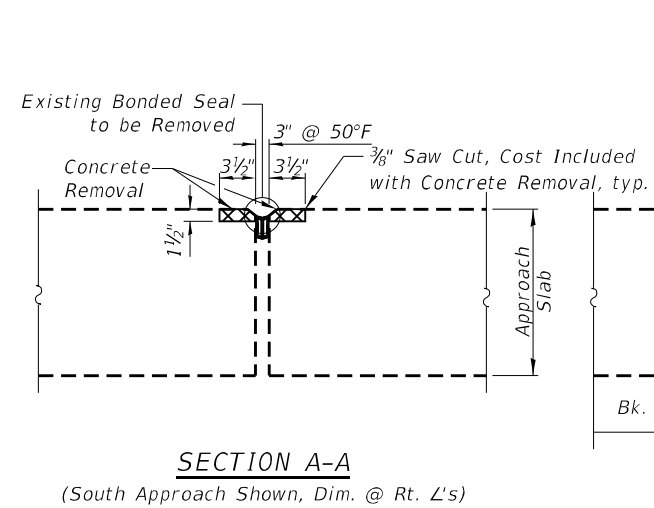
Any reinforcement bars that are damaged during concrete removal operation shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Existing transverse, longitudinal, and vertical reinforcements remaining and extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

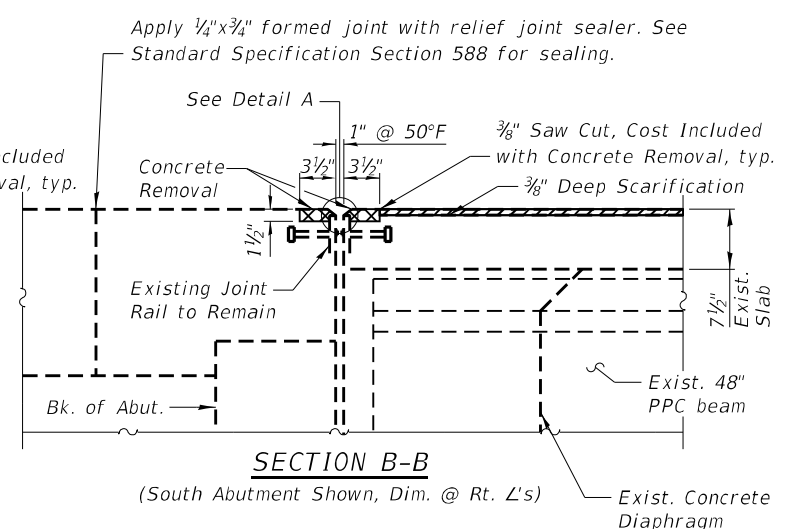
See Sheet S-16 of 24 for Bill of Material, bar details and sections.

For Overlay details see cross section on sheet S-13 of 24.

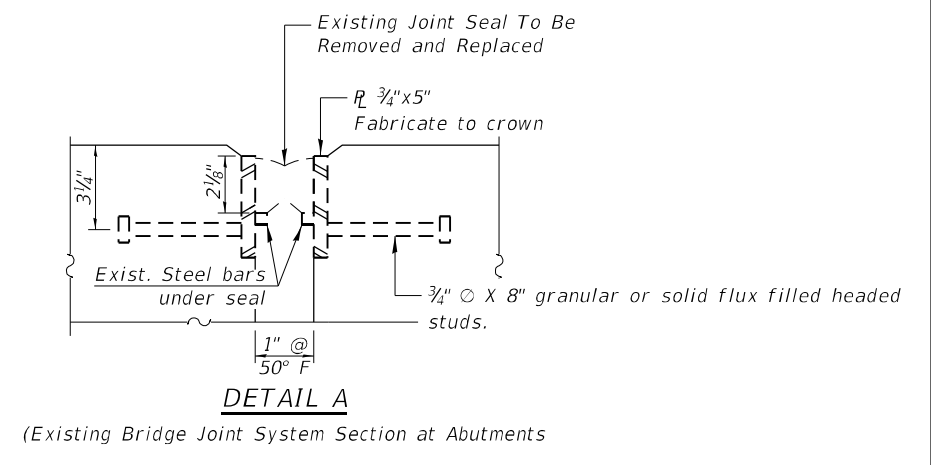
See Sheet S-15 of 24 for joint seal details.



SECTION A-A
 (South Approach Shown, Dim. @ Rt. L's)



SECTION B-B
 (South Abutment Shown, Dim. @ Rt. L's)

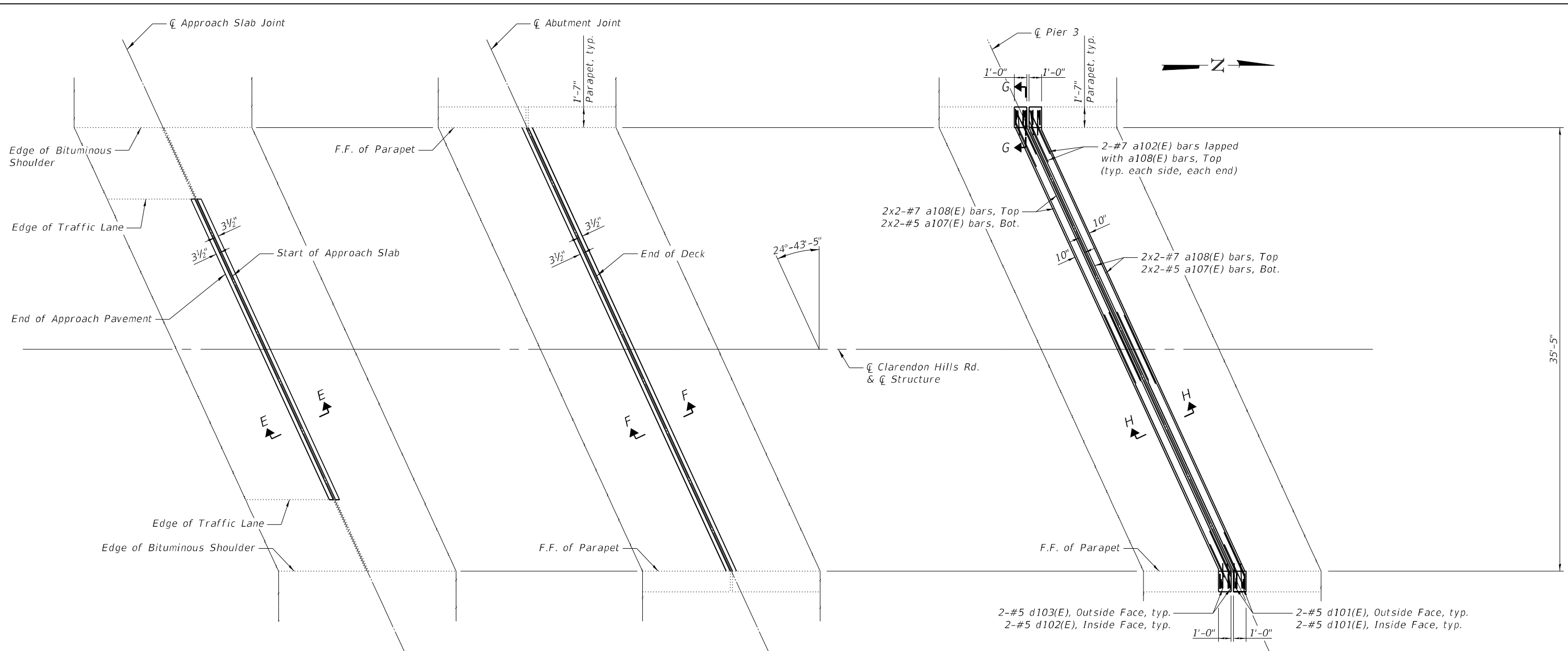


DETAIL A
 (Existing Bridge Joint System Section at Abutments)

	USER NAME = atiemann	DESIGNED - AHT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REMOVAL DETAILS @ PIERS 1 AND 3, ABUTMENTS, & APPROACH SLABS CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 8:0 ft/in.	DRAWN - AHT	REVISED -			55	2020-191-BR	DUPAGE	44	27
	PLOT DATE = 11/16/2021	CHECKED - AJN	REVISED -			CONTRACT NO. 62M64			ILLINOIS	FED. AID PROJECT

S-14
SHEET 14 OF 24 SHEETS

MODEL: 0220089-D62M64-015
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CONCRETE REPLACEMENT PLAN @ END OF APPROACH SLABS

South Approach Slab Shown, North Approach Slab Similar

CONCRETE REPLACEMENT PLAN @ ABUTMENTS

South Abutment Shown, North Abutment Similar

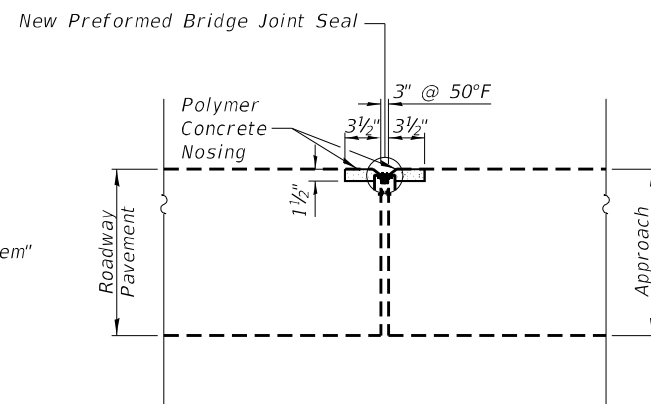
CONCRETE REPLACEMENT PLAN @ PIERS 1 & 3

Pier 3 Shown, Pier 1 Mirrored about \bar{C}

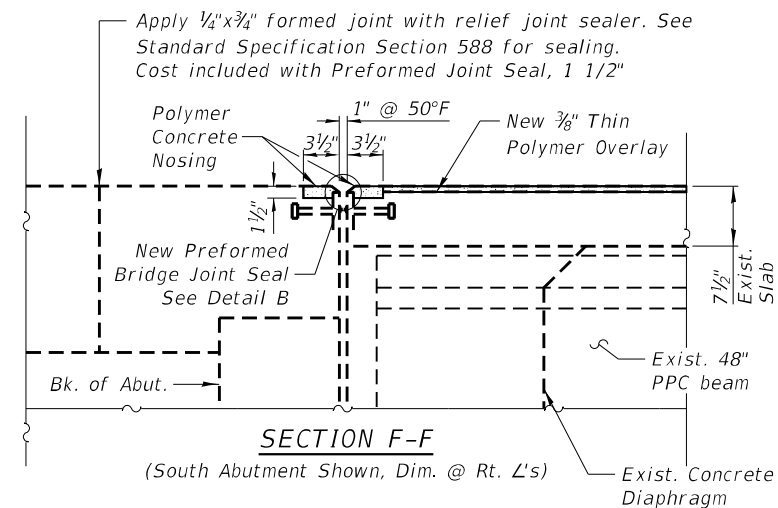
Notes:

The new joint seals at abutments and end of approach slabs shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJS).

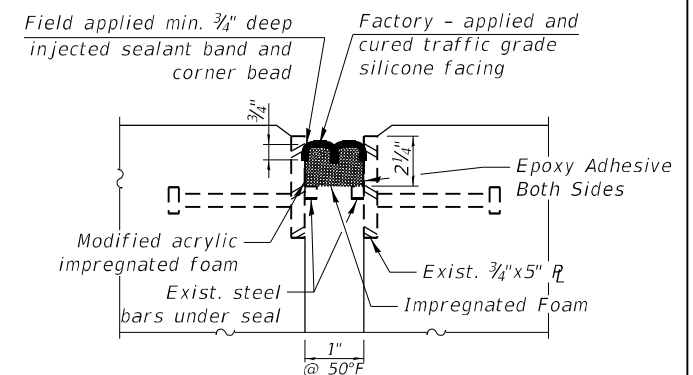
Splice Length #7 bar - 5'-0"
 Splice Length #5 bar - 3'-6"



SECTION E-E
 (South Approach Shown, Dim. @ Rt. L's)



SECTION F-F
 (South Abutment Shown, Dim. @ Rt. L's)



DETAIL B
 (Proposed New Preformed Bridge Joint Seal Section at Abutments)



USER NAME =	atlemann
PLOT SCALE =	8:0 ft/in / in.
PLOT DATE =	11/16/2021

DESIGNED -	AHT
CHECKED -	AJN
DRAWN -	AHT
CHECKED -	AJN

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**JOINT REPLACEMENT DETAILS @ PIERS 1 AND 3, ABUTMENTS, & APPROACH SLABS
 CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089**

SHEET 15 OF 24 SHEETS

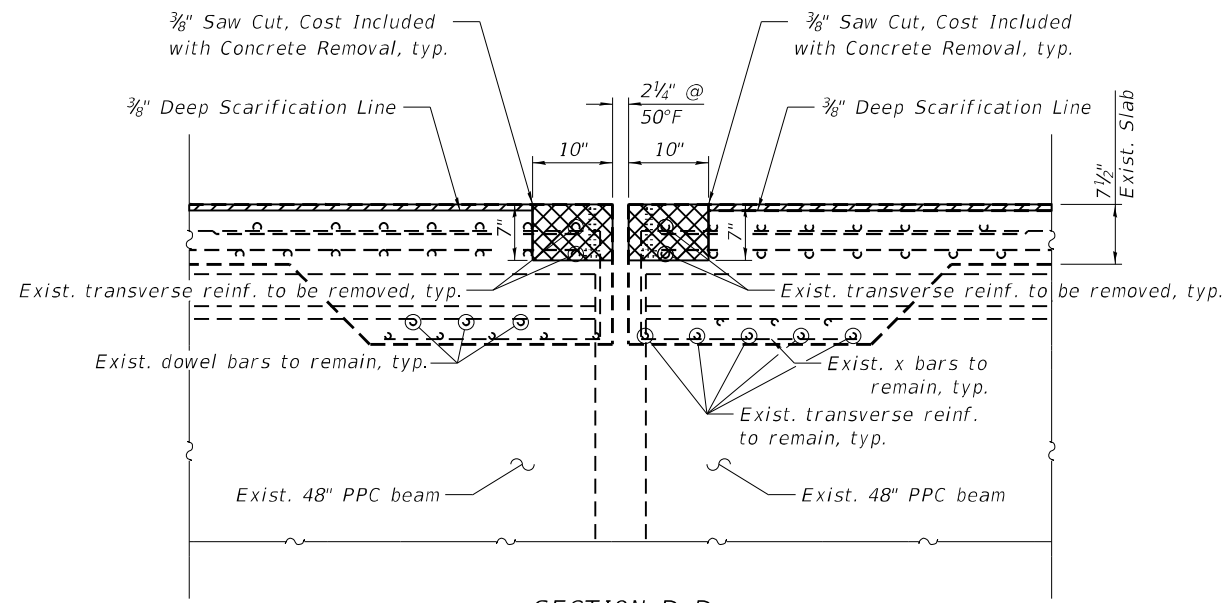
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			62M64	
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS

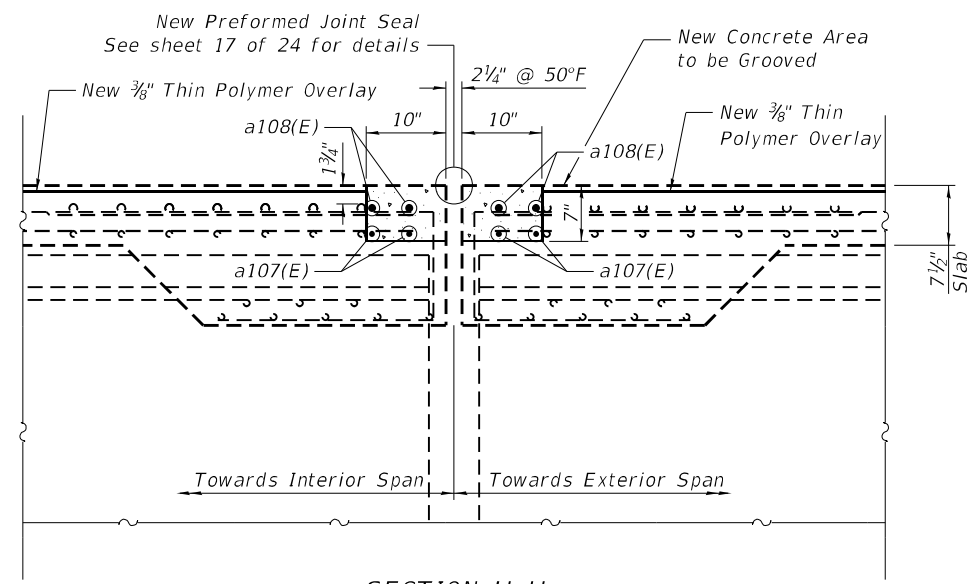
Bar	No.	Size	Length	Shape	
a102(E)	16	#5	4'-0"	—	
a107(E)	16	#5	22'-8"	—	
a108(E)	16	#7	22'-11"	—	
d101(E)	32	#5	3'-0"	L	
d102(E)	16	#5	2'-7"	L	
d103(E)	16	#5	2'-7"	L	
Item				Unit	Total
Concrete Removal				Cu. Yd.	4.5
Concrete Superstructure				Cu. Yd.	4.1
Reinforcement Bars, Epoxy Coated				Pound	1,380
Polymer Modified Portland Cement Mortar				Sq. Ft.	38.5

LEGEND

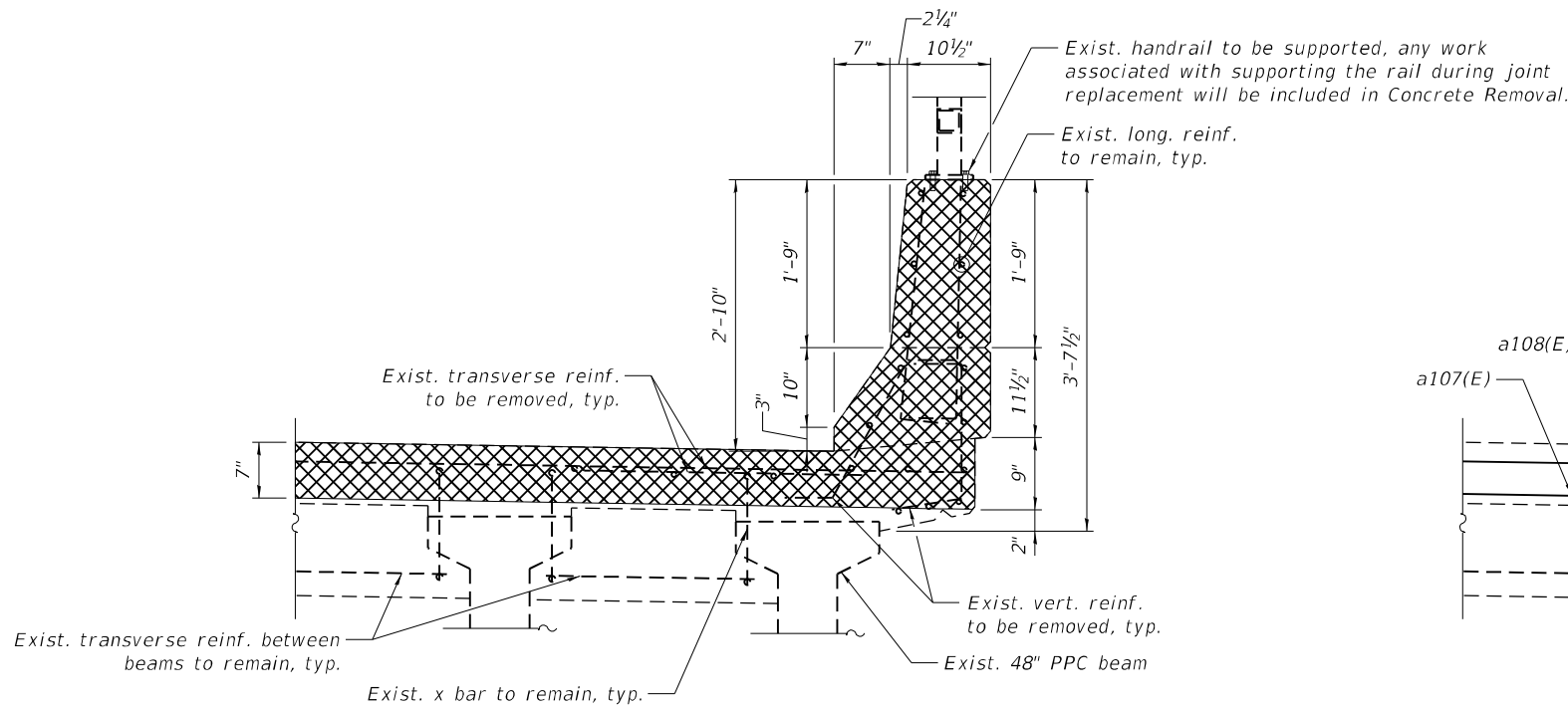
-  Concrete Removal
-  Scarification



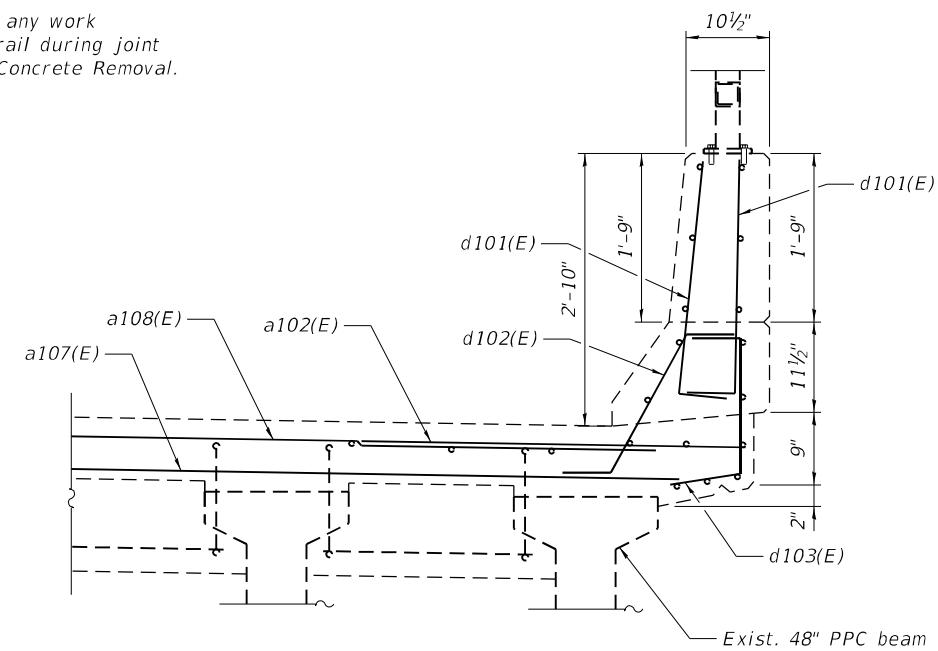
SECTION D-D
(Dim. @ Rt. L's)



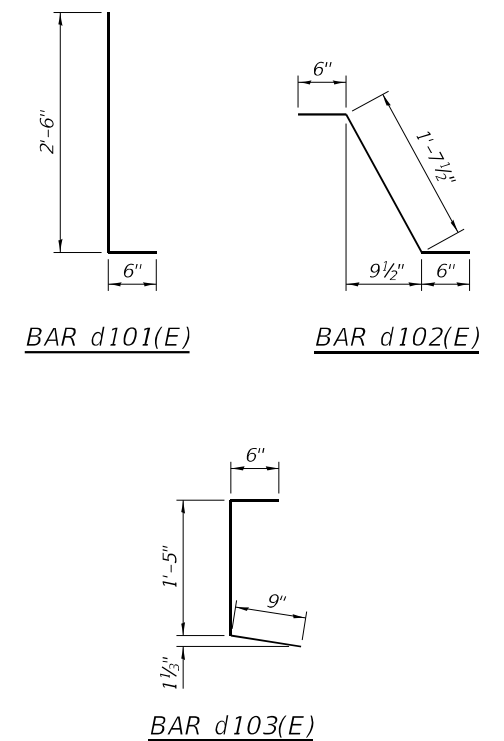
SECTION H-H
(Dim. @ Rt. L's)



SECTION C-C



SECTION G-G



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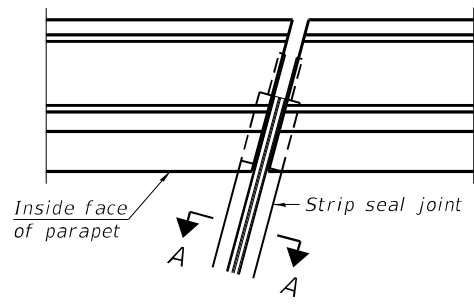
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CHECKED -	AJN	CHECKED -	AJN	REVISED -	
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PLOT DATE =	11/16/2021	CHECKED -	AJN	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT DETAILS
CLARENDON HILLS RD, BRIDGE OVER I-55 - SN 022-0089

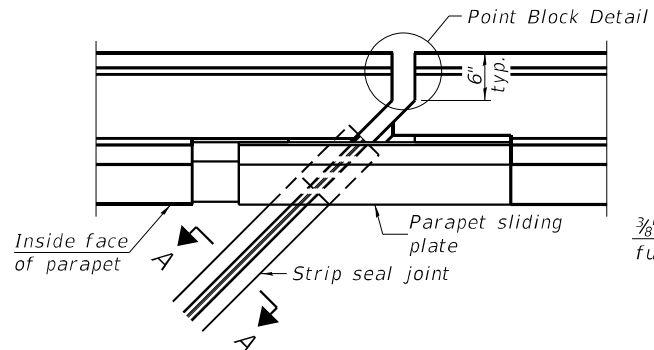
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			62M64	
ILLINOIS FED. AID PROJECT				

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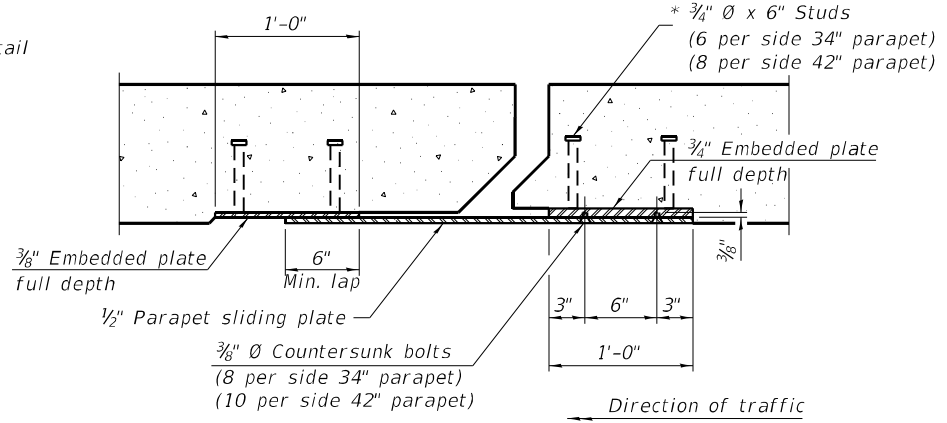


FOR SKEWS ≤ 30°

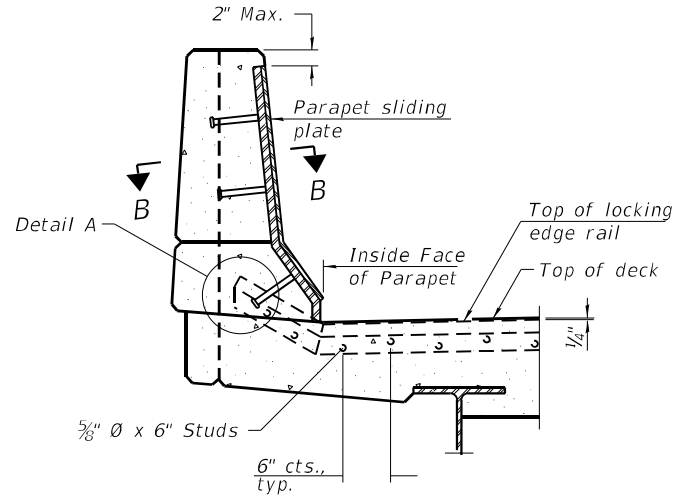
PLAN AT PARAPET



FOR SKEWS > 30°

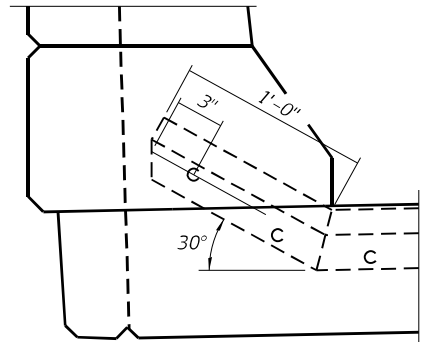


SECTION B-B

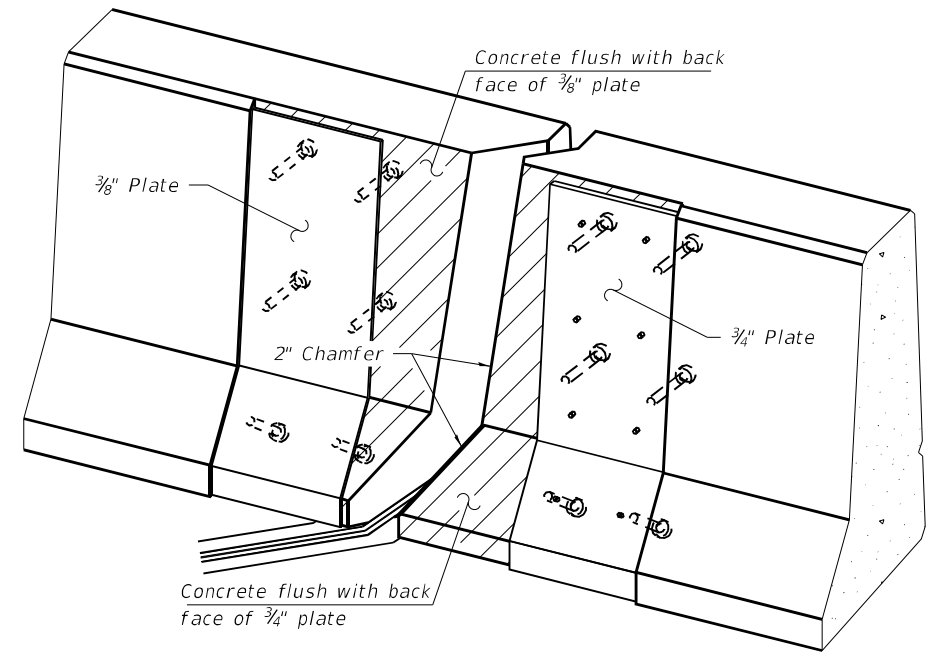


ELEVATION AT PARAPET

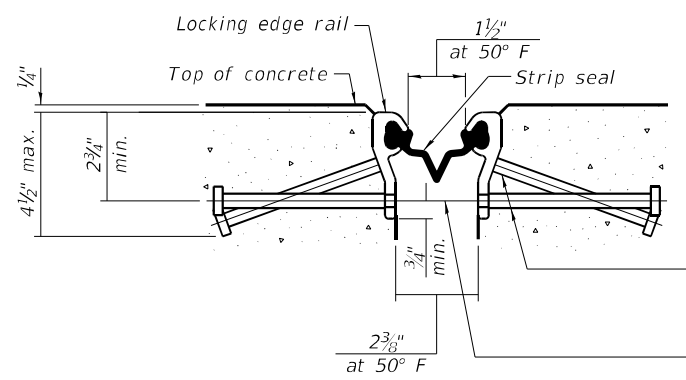
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



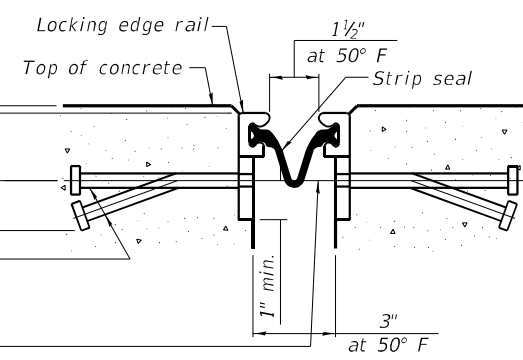
SHOWING ROLLED RAIL JOINT

* 3/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

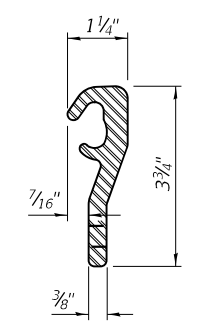
3/8" Ø threaded rods in 1/16" Ø holes at ±4"-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

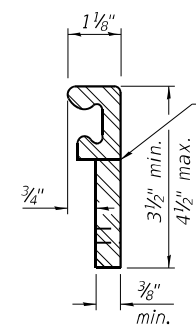
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



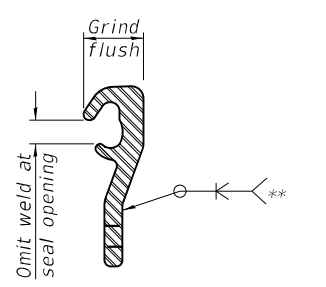
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	82.0

EJ-SS

8-11-17



USER NAME =	atlemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	40:0 ft/in.	CHECKED -	AJN	REVISED -	
PLOT DATE =	11/16/2021	DRAWN -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

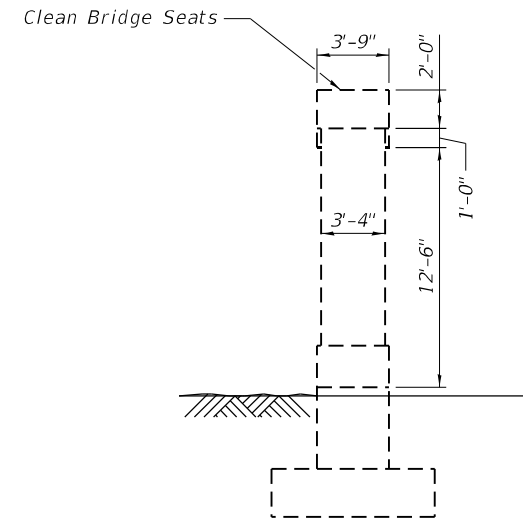
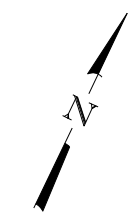
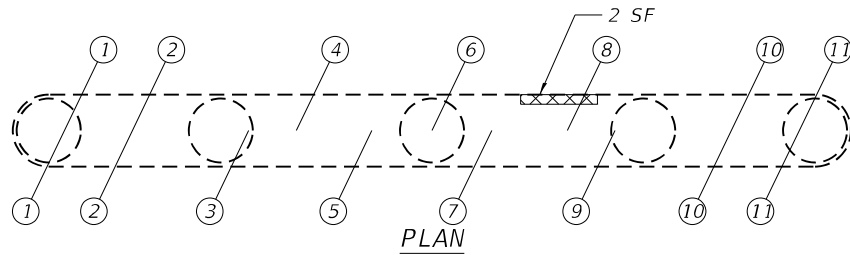
**PREFORMED JOINT STRIP SEAL
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089**

SHEET 17 OF 24 SHEETS

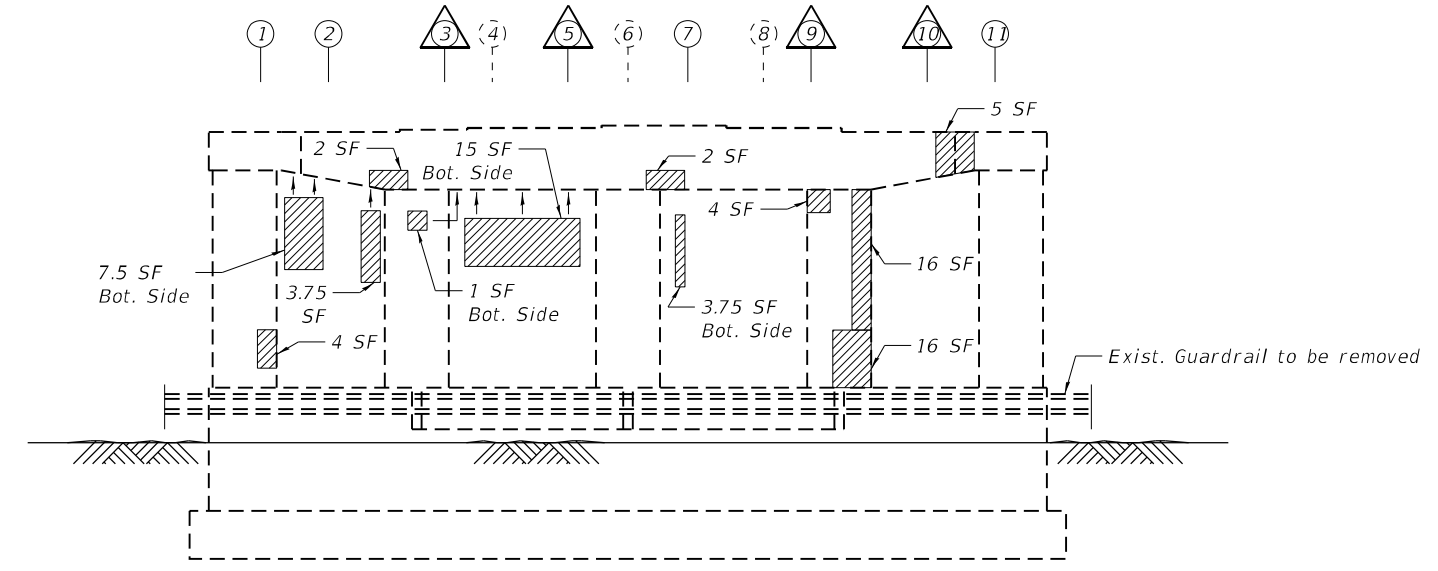
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	

S-17

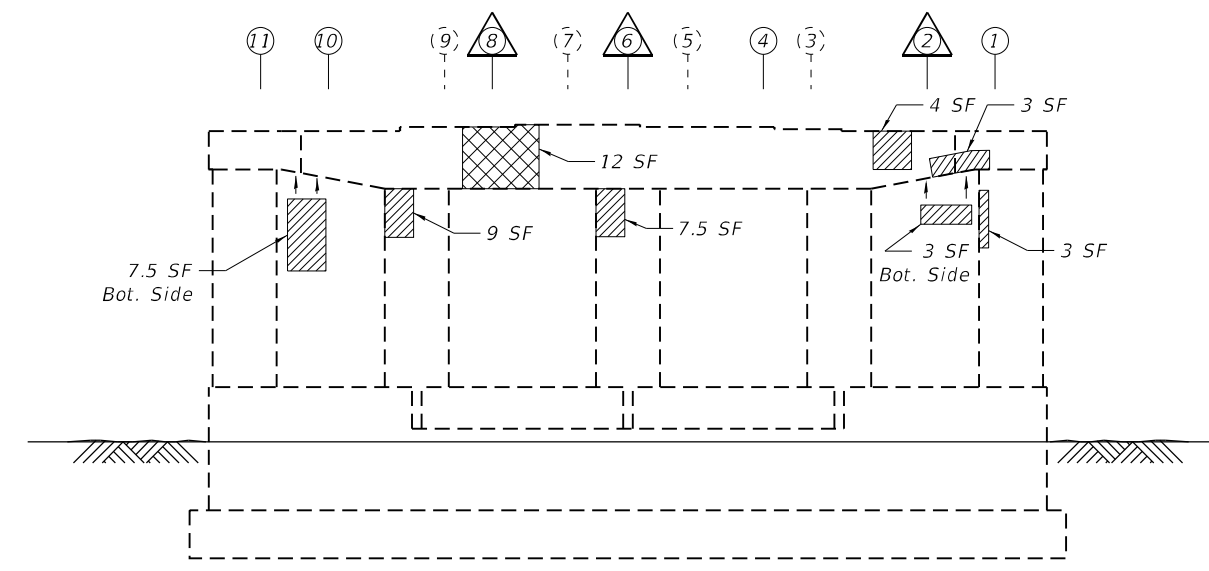
MODEL: 0220089-D62M64-018
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WEST ELEVATION
(Looking East)



SOUTH ELEVATION
(Looking North)



NORTH ELEVATION
(Looking South)

LEGEND

- SRC depth greater than 5"
- SRC depth equal to or less than 5"
- Temporary Shoring and Cribbing

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	SQ. FT.	117
Structural Repair of Concrete (Depth Greater Than 5 Inches)	SQ. FT.	14
Cleaning Bridge Seats	SQ. FT.	164

- Notes:**
- Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 - Prior to removal of concrete, the existing beams over the repair area shall be temporarily supported (See Beam Reaction Table on sheet S-3 and Special Provision for Temporary Shoring and Cribbing).



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 10:0 ft/in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 11/16/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

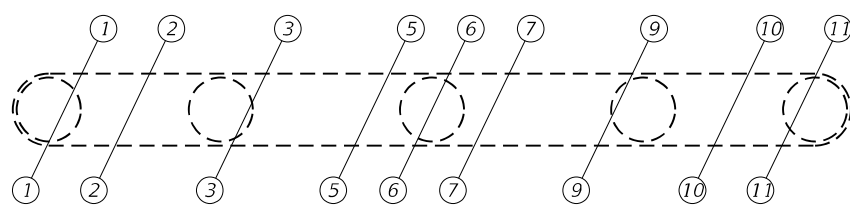
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR - PIER 1
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

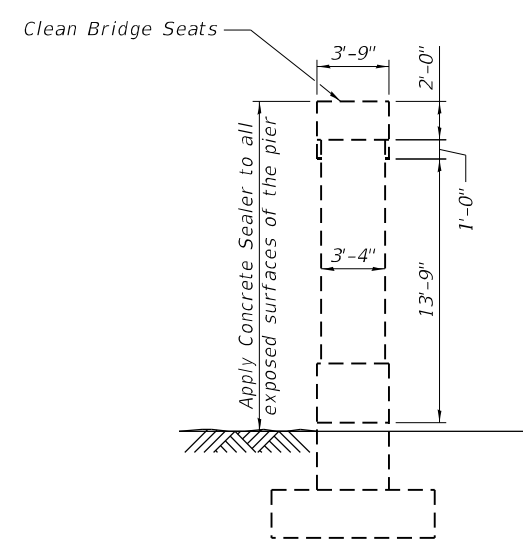
SHEET 18 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	

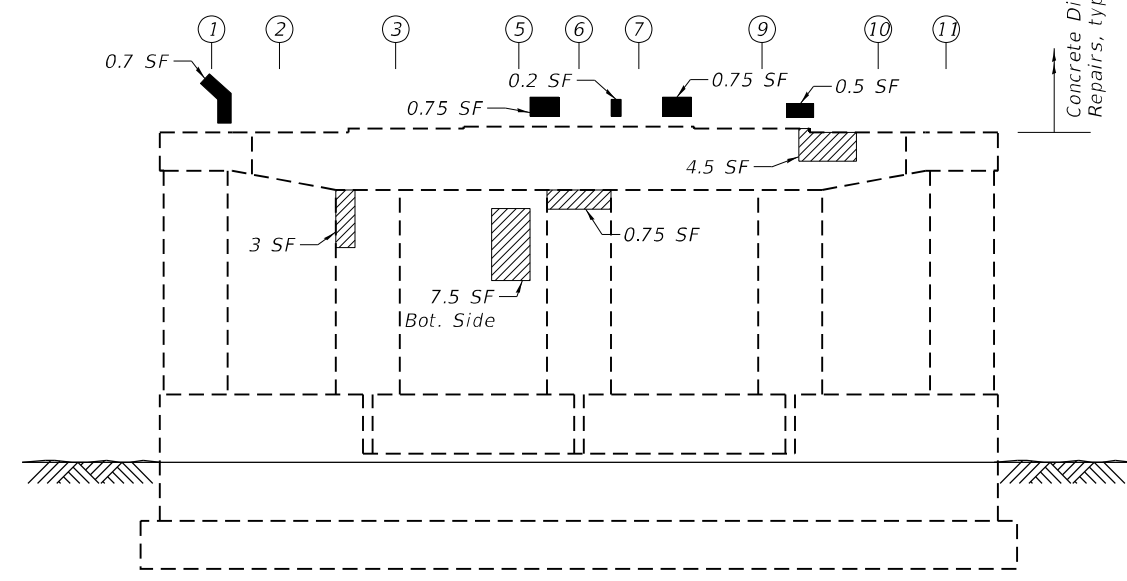
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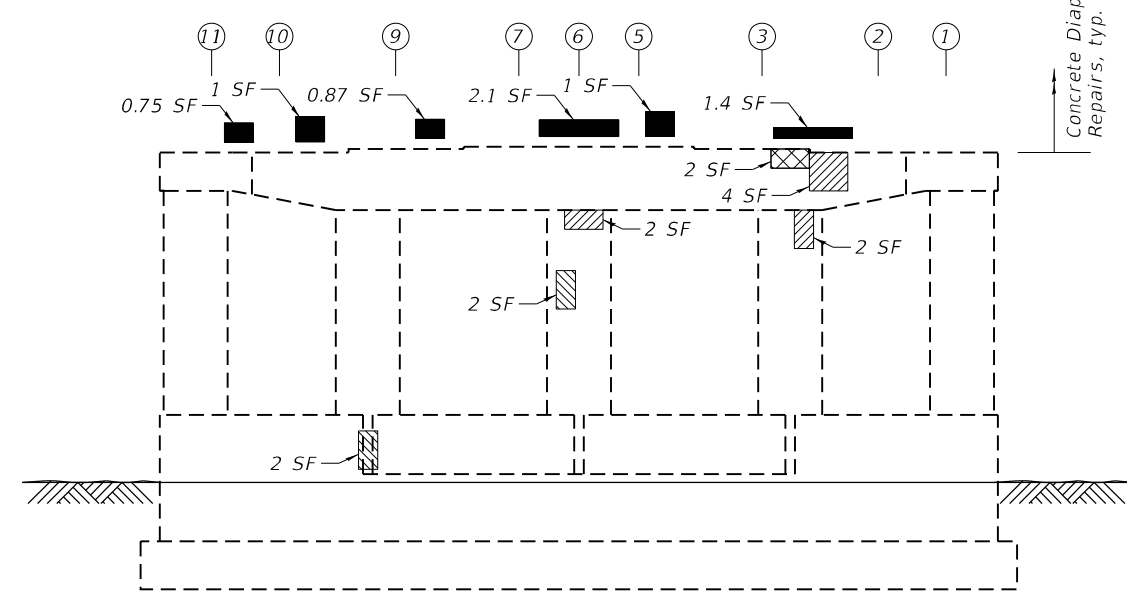
PLAN



WEST ELEVATION
(Looking East)



SOUTH ELEVATION
(Looking North)



NORTH ELEVATION
(Looking South)

LEGEND

- SRC depth greater than 5"
- SRC depth equal to or less than 5"
- SRC for Concrete Diaphragms, Quantity included with SRC ≤ 5"

Note:
 1. Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	SQ. FT.	38
Structural Repair of Concrete (Depth Greater Than 5 Inches)	SQ. FT.	2
Concrete Sealer	SQ. FT.	1,455
Cleaning Bridge Seats	SQ. FT.	164



USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	10:0 ft/in / in.	CHECKED -	AJN	REVISED -	
PLOT DATE =	11/16/2021	DRAWN -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	

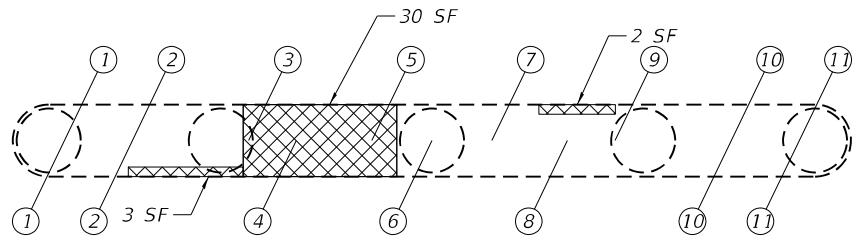
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR - PIER 2
 CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

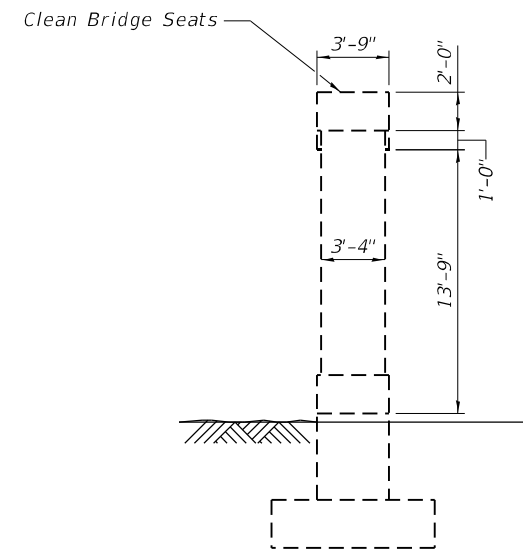
SHEET 19 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	

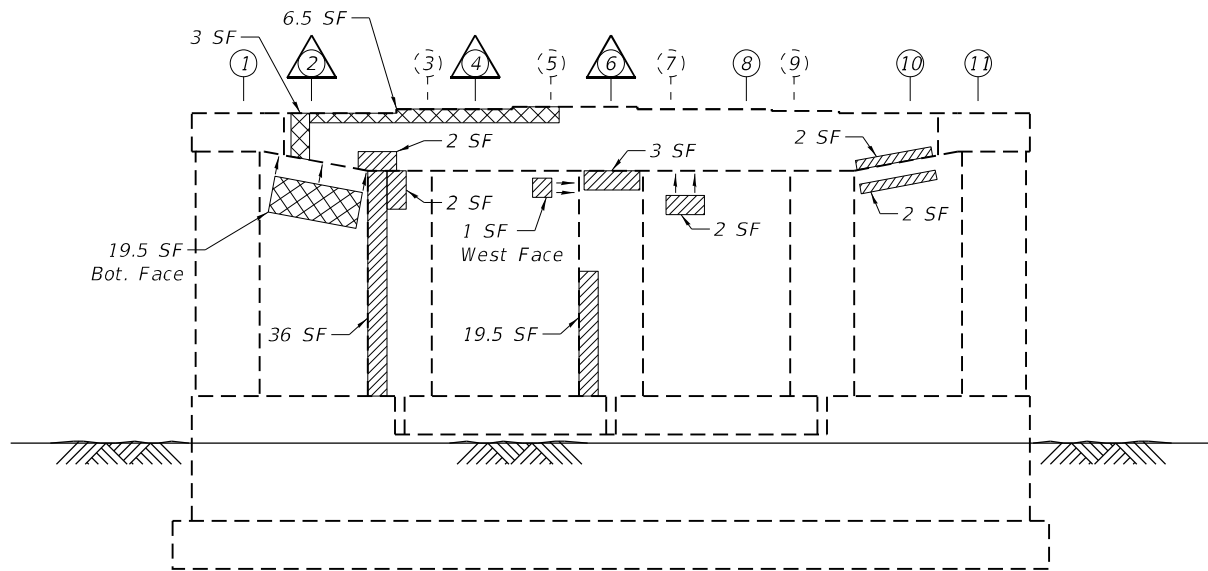
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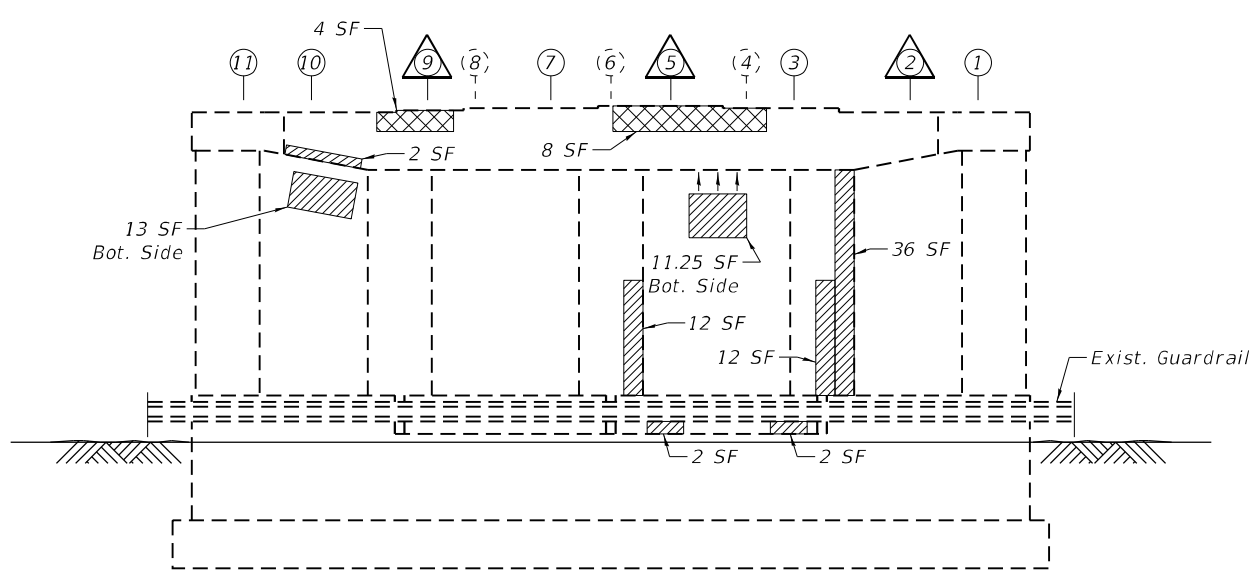
PLAN



WEST ELEVATION
(Looking East)



SOUTH ELEVATION
(Looking North)



NORTH ELEVATION
(Looking South)

Notes:
 1. Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 2. Prior to removal of concrete, the existing beams over the repair area shall be temporarily supported (See Beam Reaction Table on sheet S-3 and Special Provision for Temporary Shoring and Cribbing)

LEGEND

	- SRC depth greater than 5"
	- SRC depth equal to or less than 5"
	- Temporary Shoring and Cribbing

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	SQ. FT.	160
Structural Repair of Concrete (Depth Greater Than 5 Inches)	SQ. FT.	76
Cleaning Bridge Seats	SQ. FT.	164

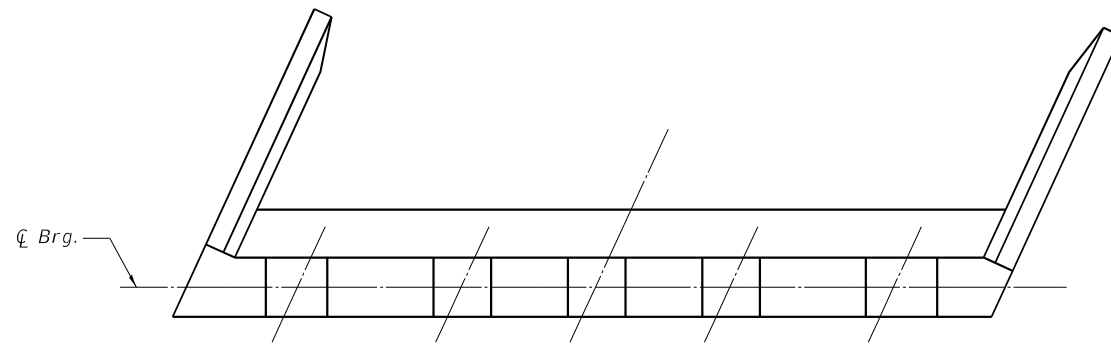


USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 10:0 ft/in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 11/16/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

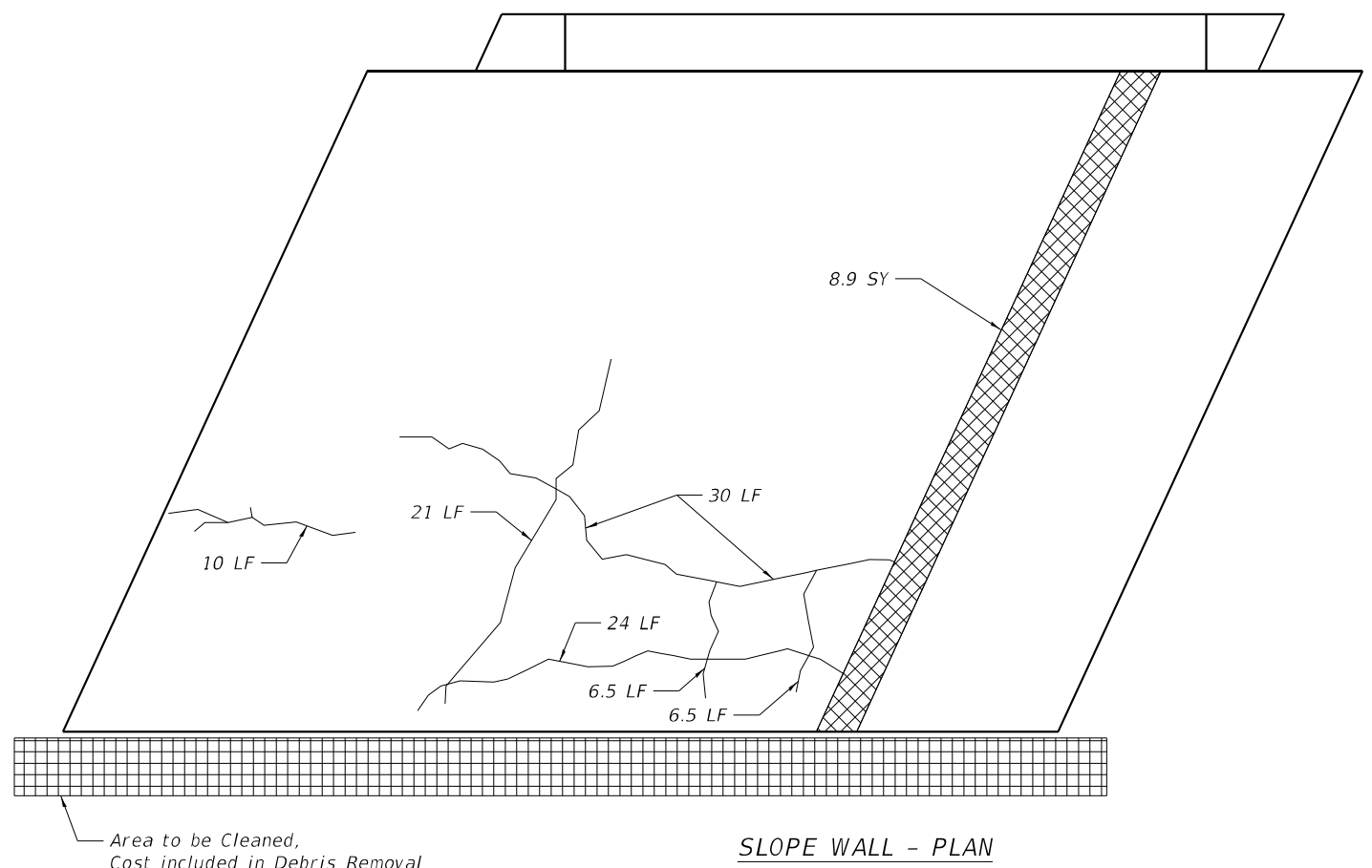
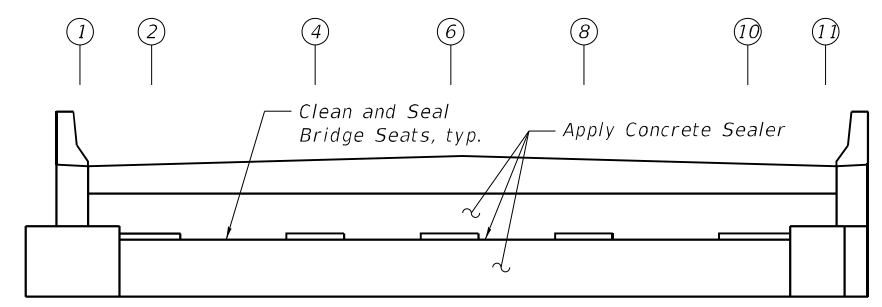
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR - PIER 3
 CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

F.A.I. RTE. 55	SECTION 2020-191-BR	COUNTY DUPAGE	TOTAL SHEETS 44	SHEET NO. 33
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	



- LEGEND**
- Slope Wall Repair
 - Area to be Cleaned
 - Slope Wall Crack Sealing



BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Sealer	Sq. Ft.	384
Slope Wall Repair	Sq. Yd.	8.9
Slope Wall Crack Sealer	Foot	98
Porous Granular Embankment	Cu. Yd.	1.0
Debris Removal	Cu. Yd.	2

- Notes:**
- Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 - Porous Granular Embankment (PGE) shall be used for filling any voids beneath the slope wall being repaired as required.

Area to be Cleaned,
Cost included in Debris Removal

MODEL: 0220089-D62M64-021 FILE NAME: P:\040058-01-002 (ENG) - PTB_195-016 Phase II Var VanEngineering\WO 12 - Clarendon Hill at I-55\51500 Drawings\501 CADD Drawings\0220089-D62M64.dgn



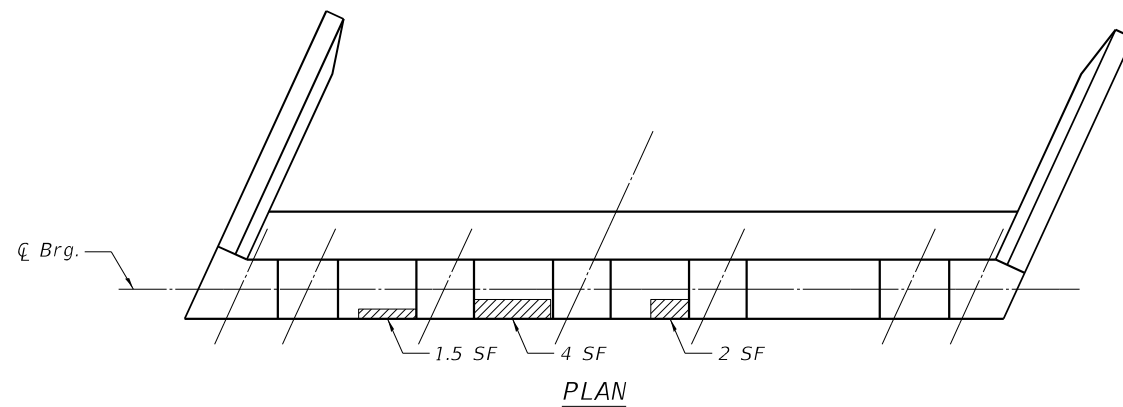
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PLOT SCALE = 10:0 ft/in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 11/16/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIR - N. ABUTMENT & SLOPE WALL
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089**

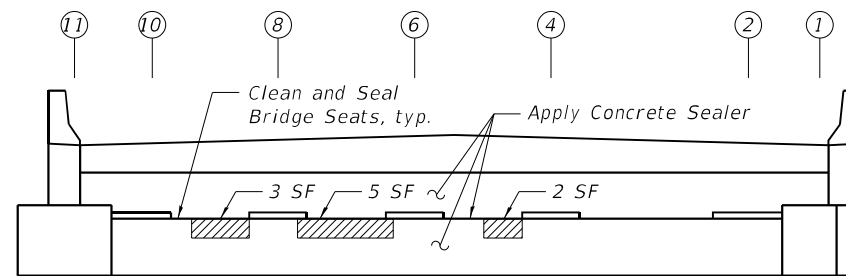
SHEET 21 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	

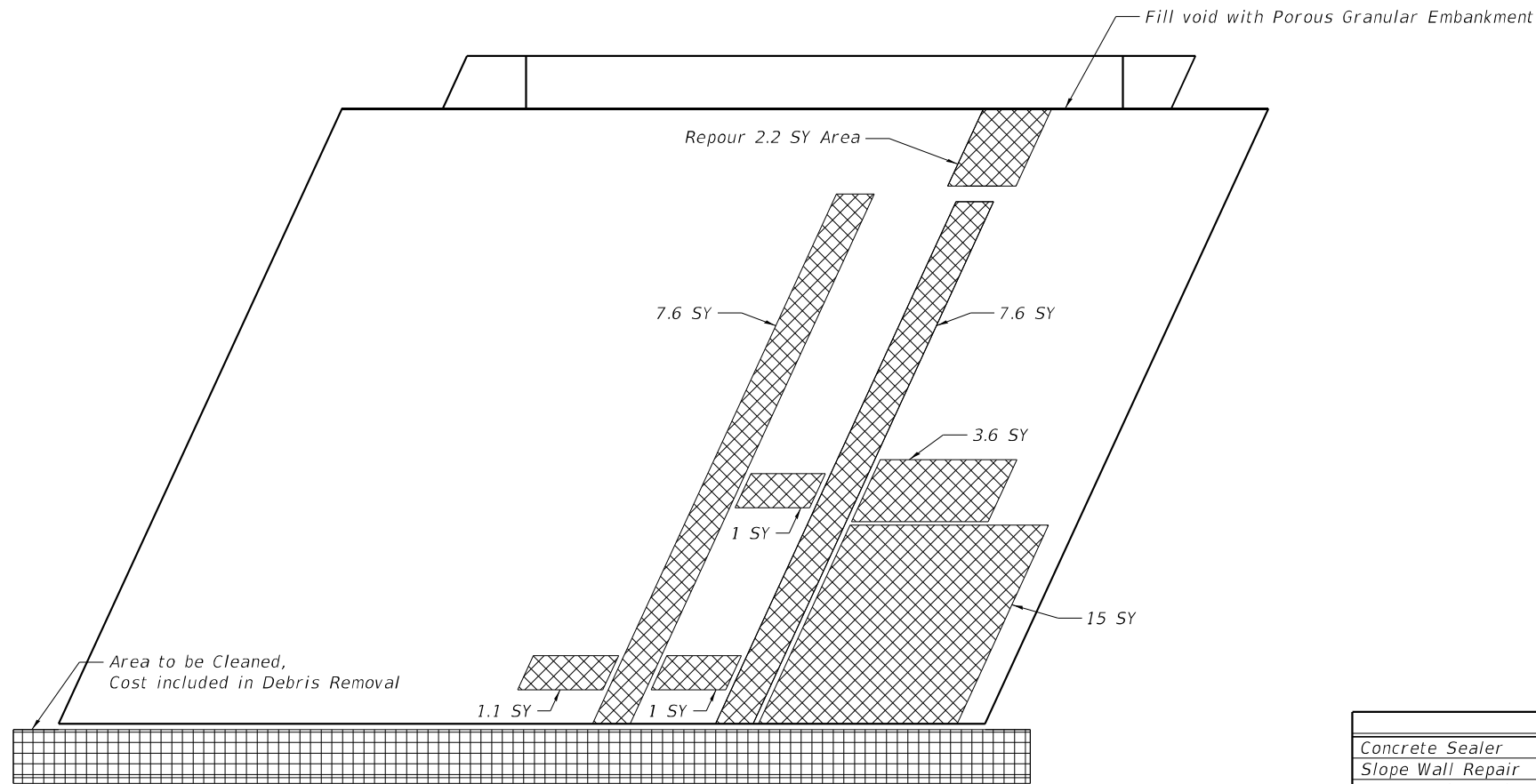


LEGEND

- Slope Wall Repair
- SRC depth equal to or less than 5"
- Area to be Cleaned



NORTH ELEVATION
(Looking South)



SLOPE WALL - PLAN

- Notes:**
- Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 - Porous Granular Embankment (PGE) shall be used for filling any voids beneath the slope wall being repaired as required.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Sealer	Sq. Ft.	384
Slope Wall Repair	Sq. Yd.	39.0
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	17.5
Porous Granular Embankment	Cu. Yd.	5.0
Debris Removal	Cu. Yd.	2

MODEL: 0220089-D62M64-022
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB_195-016 Phase II Var VanEngineering\WO 12 - Clarendon Hill at I-55\51500 Drawings\501 CADD Drawings\0220089-D62M64.dgn

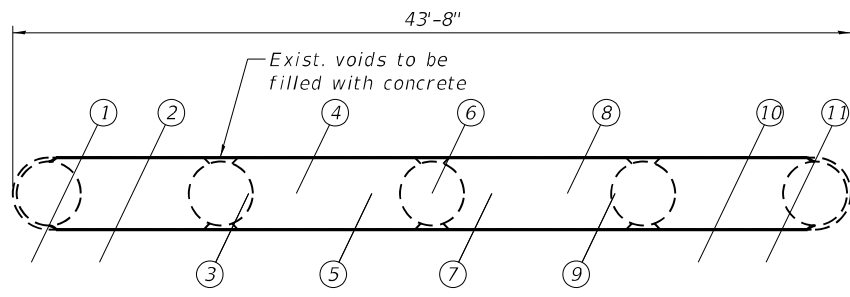
Bowman <small>311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-464-0360 www.bowman.com</small>	USER NAME = atiemann	DESIGNED - AHT	REVISED -
	PLOT SCALE = 10:0 ft/in / in.	CHECKED - AJN	REVISED -
	PLOT DATE = 11/16/2021	DRAWN - AHT	REVISED -
		CHECKED - AJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

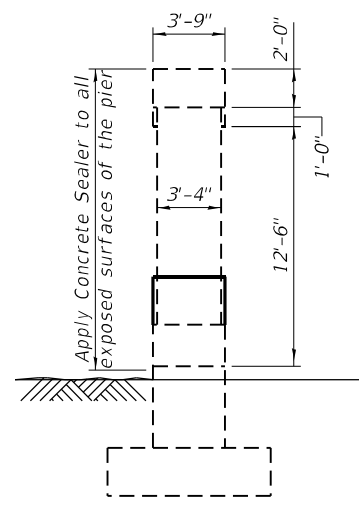
**SUBSTRUCTURE REPAIR - S. ABUTMENT & SLOPE WALL
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	35
			CONTRACT NO. 62M64	
		ILLINOIS FED. AID PROJECT		

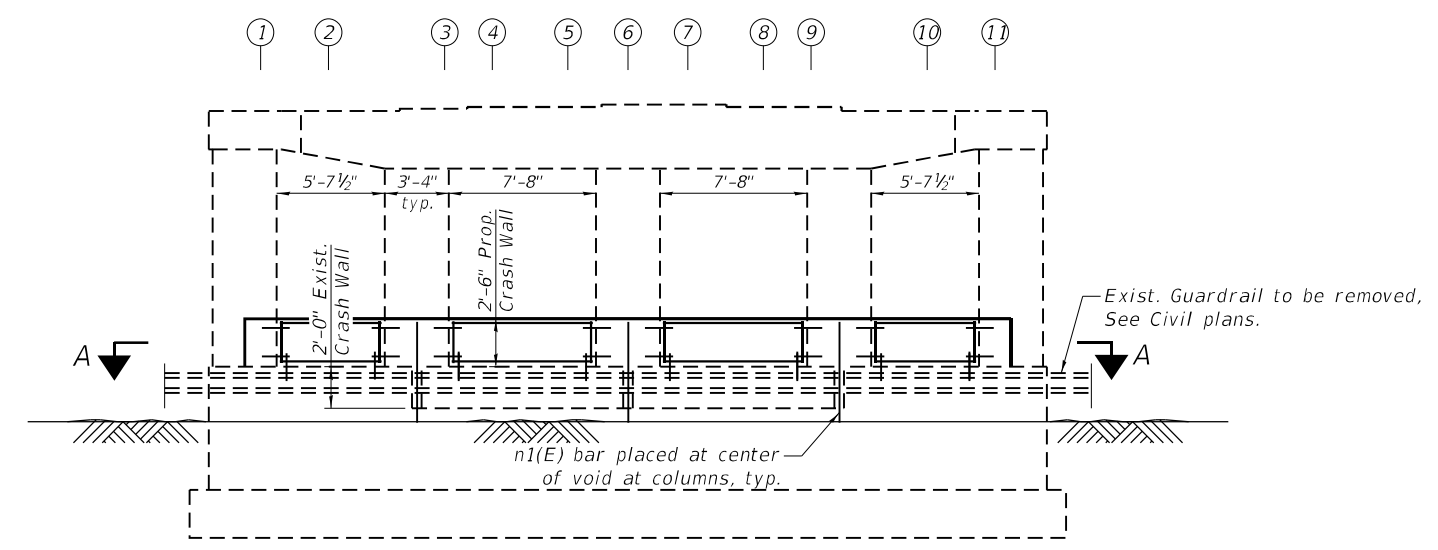
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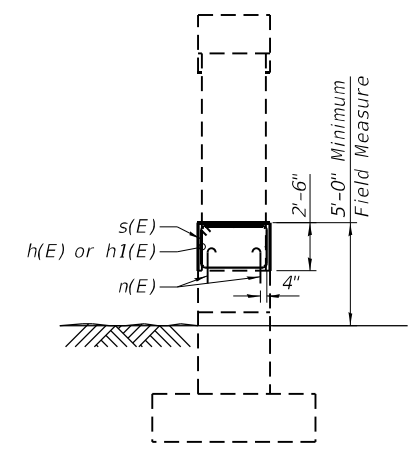
SECTION A-A



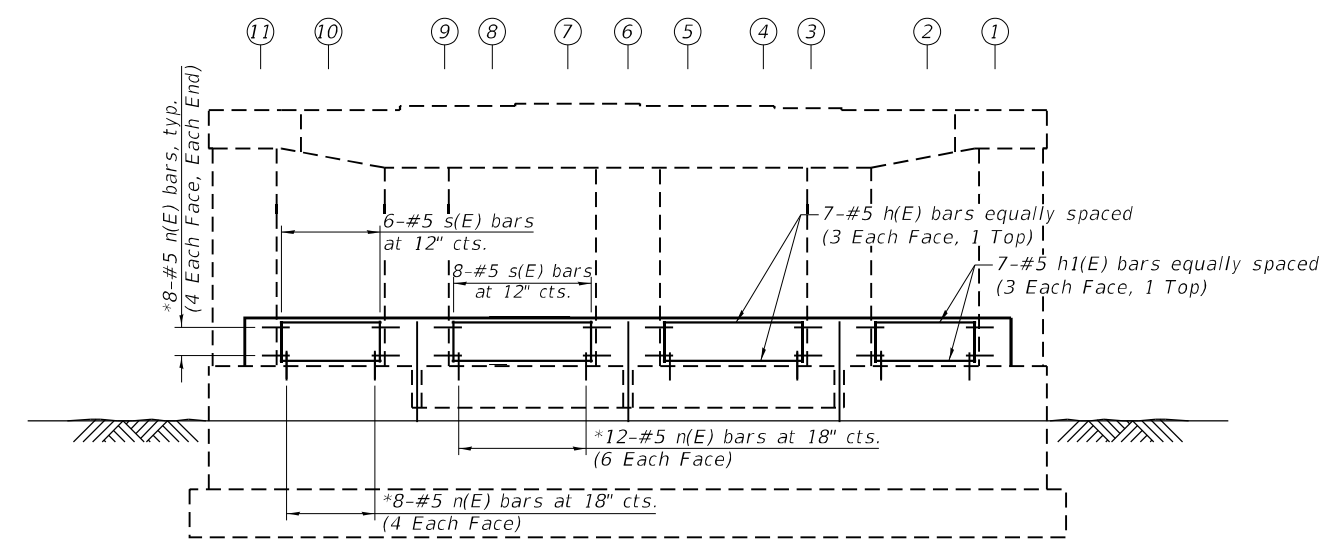
WEST ELEVATION
(Looking East)



SOUTH ELEVATION
(Looking North)



EAST ELEVATION
(Looking West)



NORTH ELEVATION

(Looking South, Reinforcement Symmetrical About C)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	7'-4"	—
h1(E)	14	#5	5'-3 1/2"	—
s(E)	28	#5	12'-1"	□
n(E)	104	#5	2'-5"	┌
n1(E)	6	#5	5'-10"	└
Concrete Structures			Cu. Yd.	9.9
Concrete Sealer			Sq. Ft.	1477
Reinforcement Bars, Epoxy Coated			Pound	840

Note:
 Epoxy grout n(E) and n1(E) bars 9" min. holes according to Article 584 of the Standard Specifications. The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated



USER NAME =	atlemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	10:0 ft/in / in.	CHECKED -	AJN	REVISED -	
PLOT DATE =	11/16/2021	DRAWN -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	

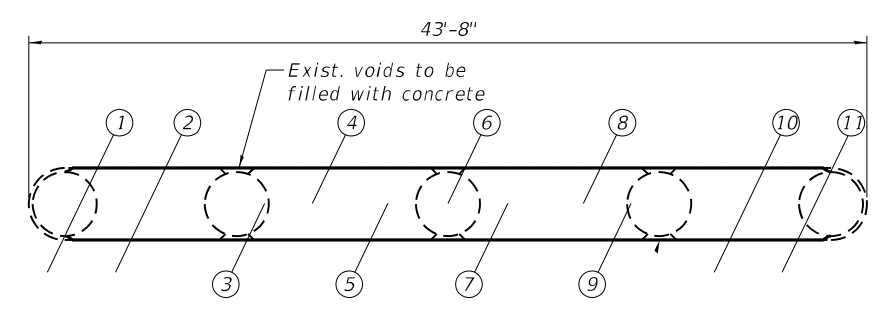
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CRASH WALL EXTENSION - PIER 1
 CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

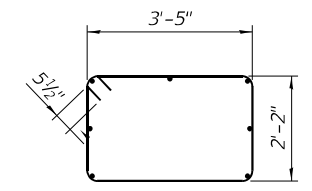
SHEET 23 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	

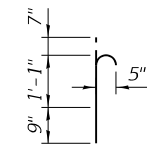
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 311 S. Wacker Drive, Suite 1950
 Chicago, Illinois 60606
 312-454-0580
 www.bowman.com



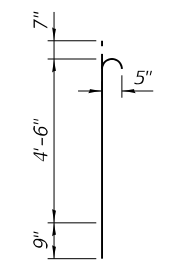
PLAN



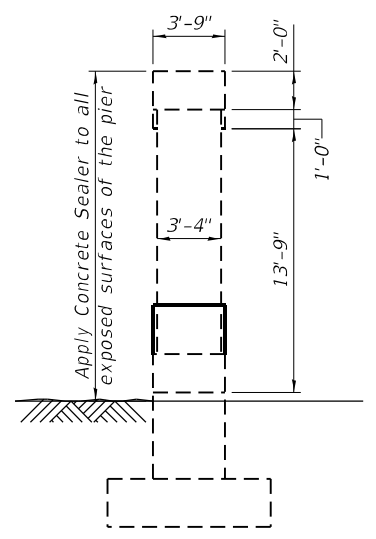
Bar s(E)



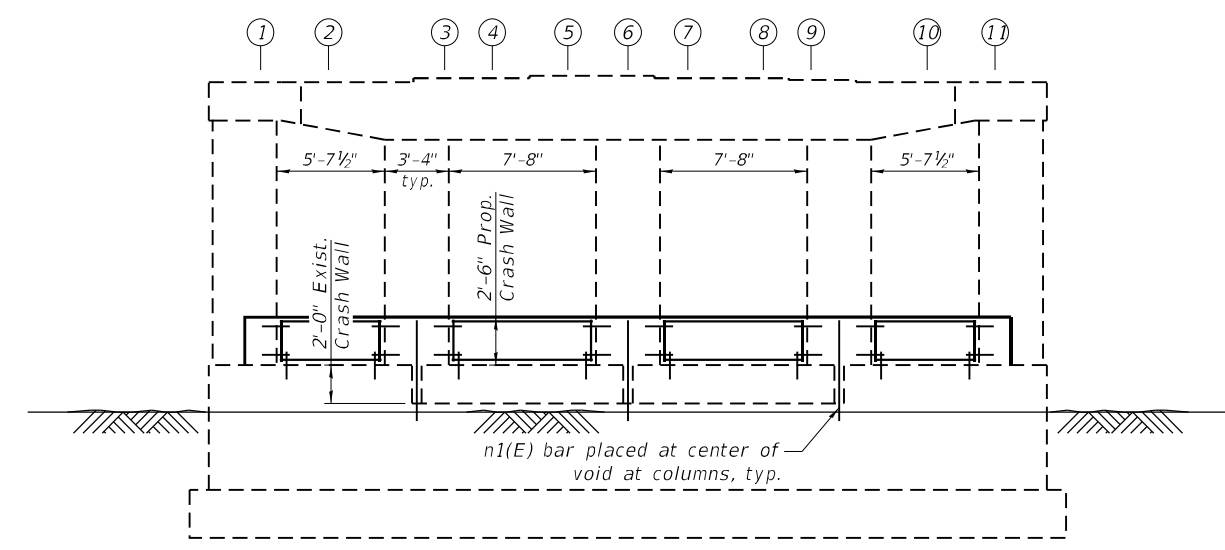
Bar n(E)



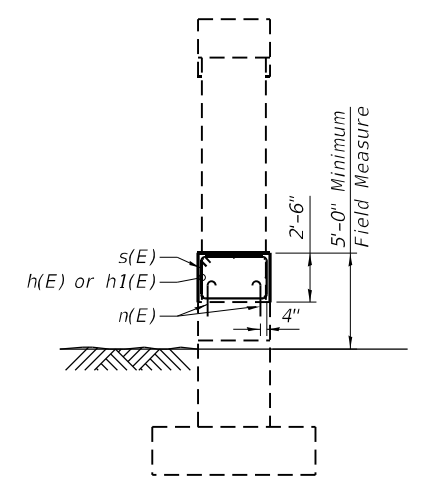
Bar n1(E)



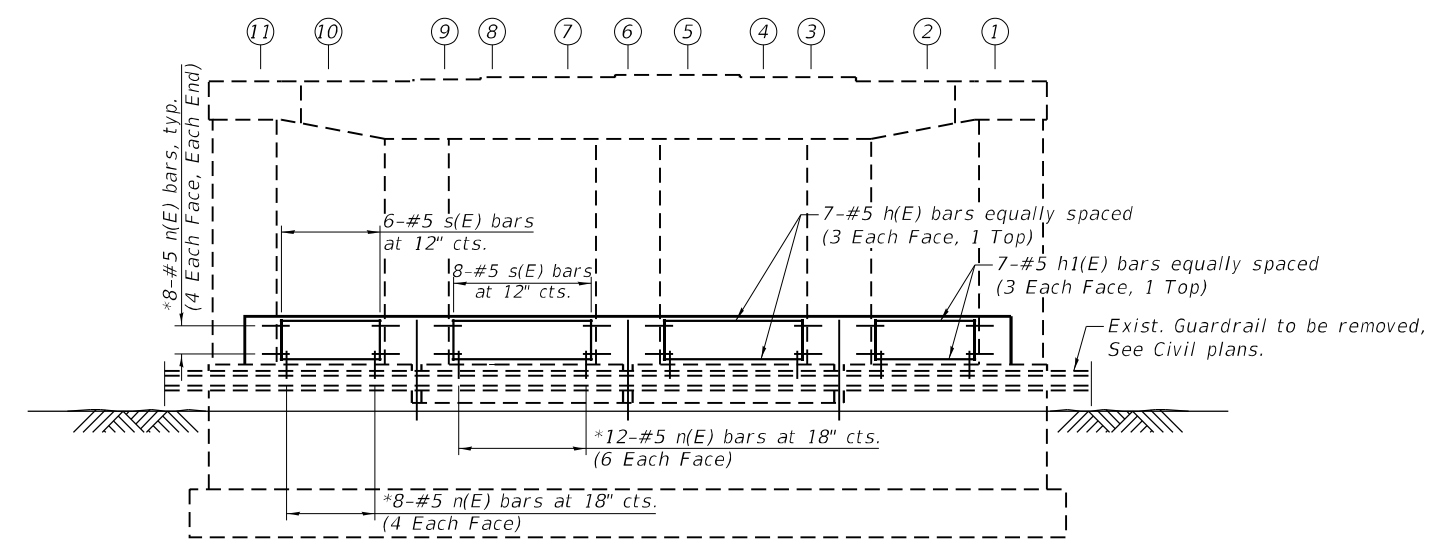
WEST ELEVATION
(Looking East)



SOUTH ELEVATION
(Looking North)



EAST ELEVATION
(Looking West)



NORTH ELEVATION
(Looking South, Reinforcement Symmetrical About C)

Note:
Epoxy grout n(E) and n1(E) bars 9" min. holes according to Article 584 of the Standard Specifications. The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated

BILL OF MATERIAL

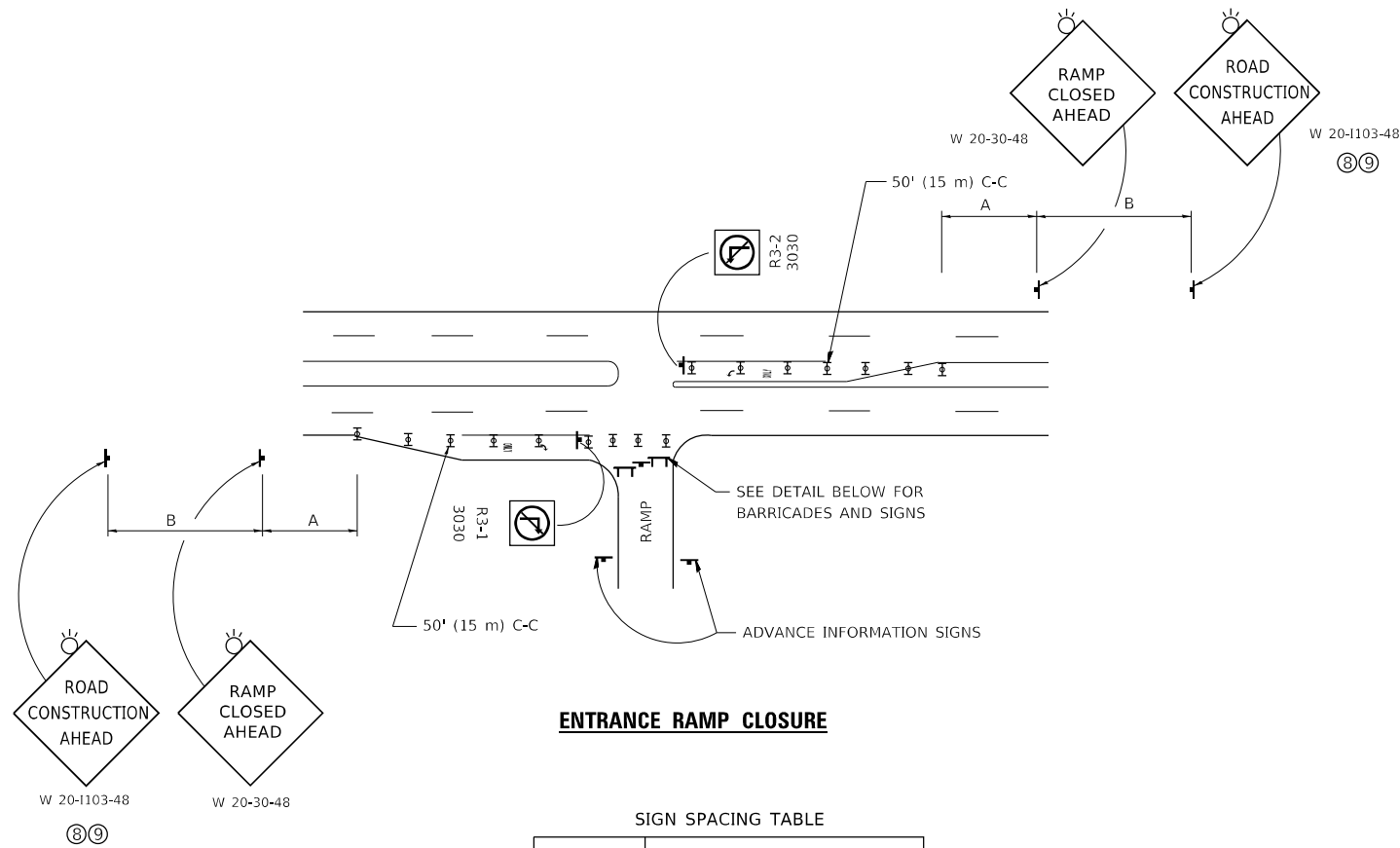
Bar	No.	Size	Length	Shape
h(E)	14	#5	7'-4"	—
h1(E)	14	#5	5'-3 1/2"	—
s(E)	28	#5	12'-1"	□
n(E)	104	#5	2'-5"	┌
n1(E)	6	#5	5'-10"	┌
Concrete Structures			Cu. Yd.	9.9
Concrete Sealer			Sq. Ft.	1455
Reinforcement Bars, Epoxy Coated			Pound	840

Bowman	USER NAME = atiemann	DESIGNED - AHT	REVISED -
	PLOT SCALE = 10:0 ft/in / in.	CHECKED - AJN	REVISED -
	PLOT DATE = 11/16/2021	DRAWN - AHT	REVISED -
		CHECKED - AJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRASH WALL EXTENSION - PIER 3
CLARENDON HILLS RD. BRIDGE OVER I-55 - SN 022-0089

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M64	

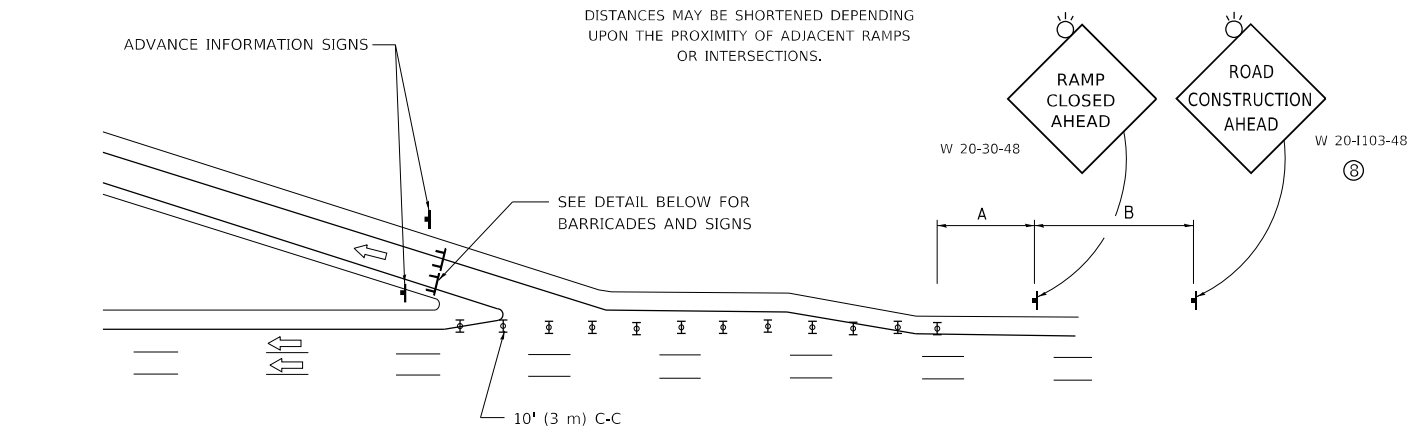


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

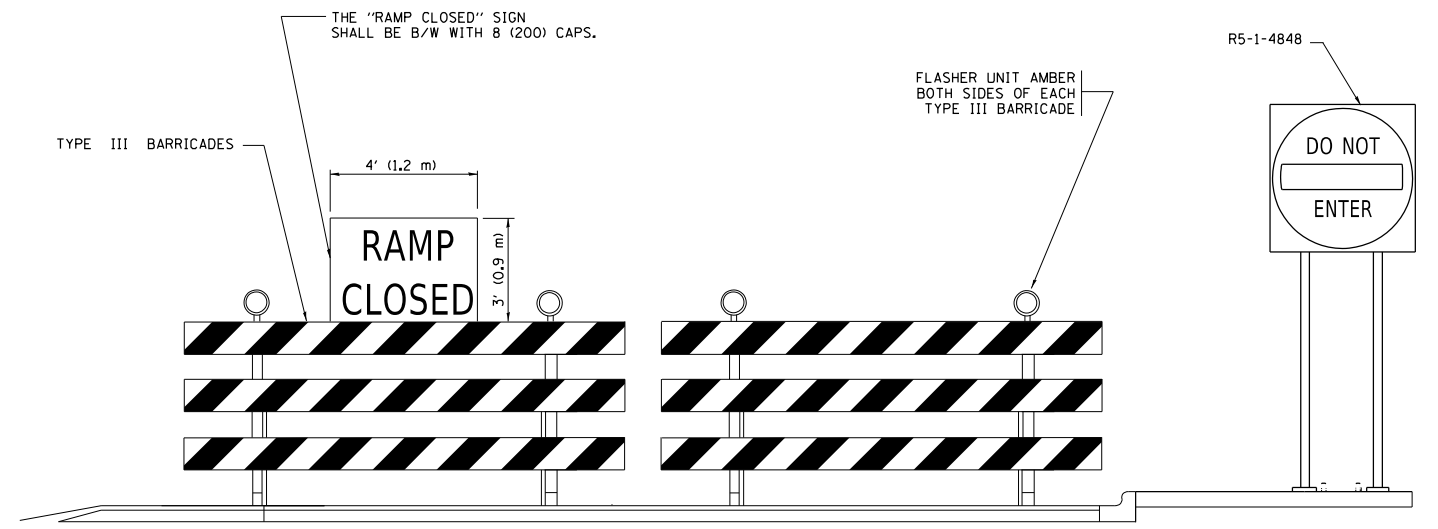
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

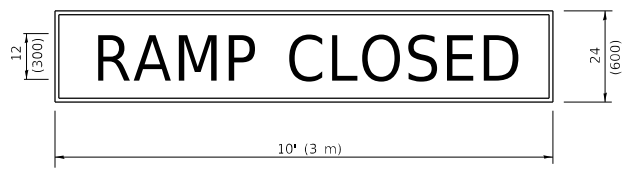
SYMBOLS

- ☐ TYPE II BARRICADE OR DRUM
- ☐ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

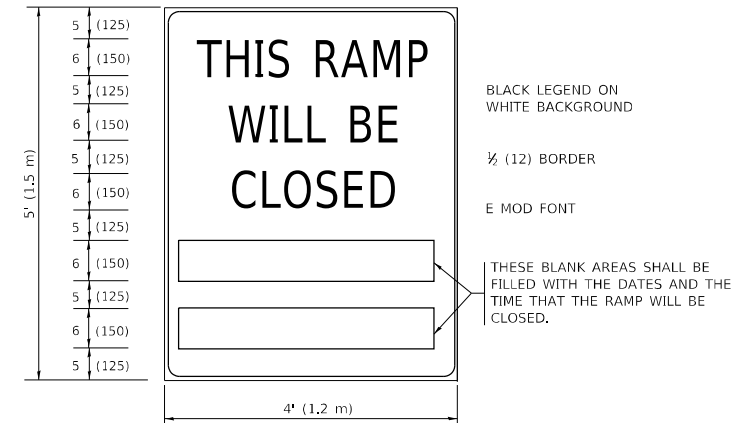
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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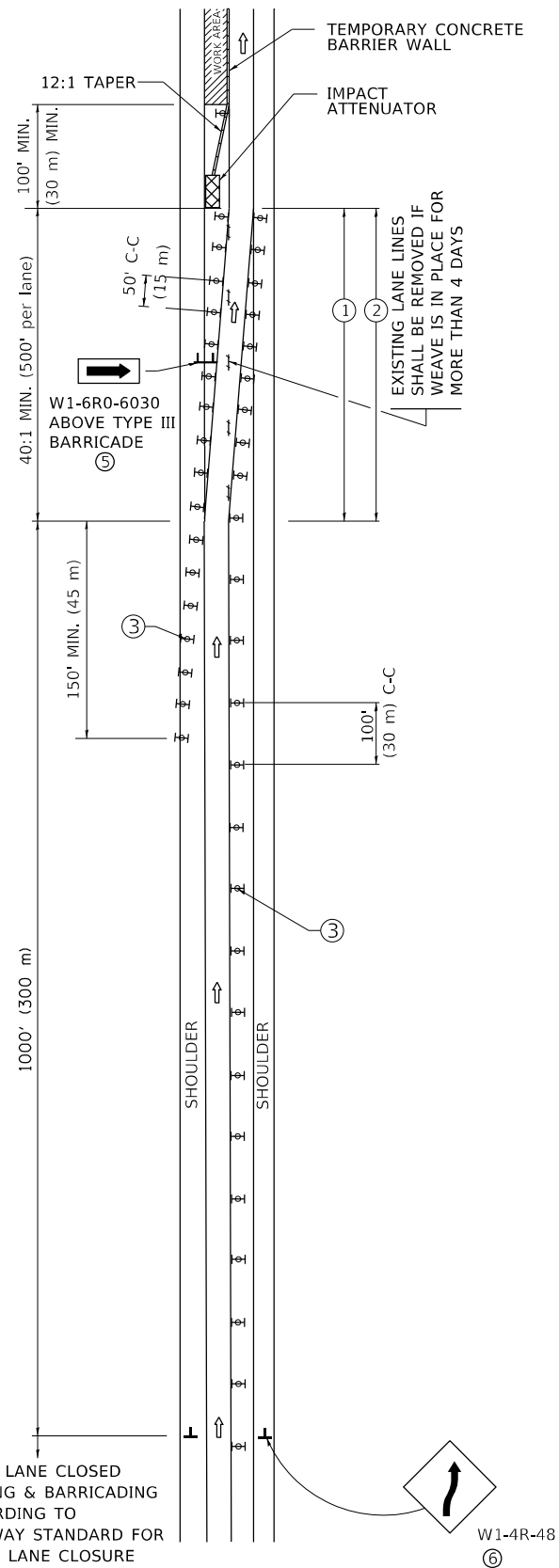
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ENTRANCE_AND_EXIT_RAMP CLOSURE_DETAILS

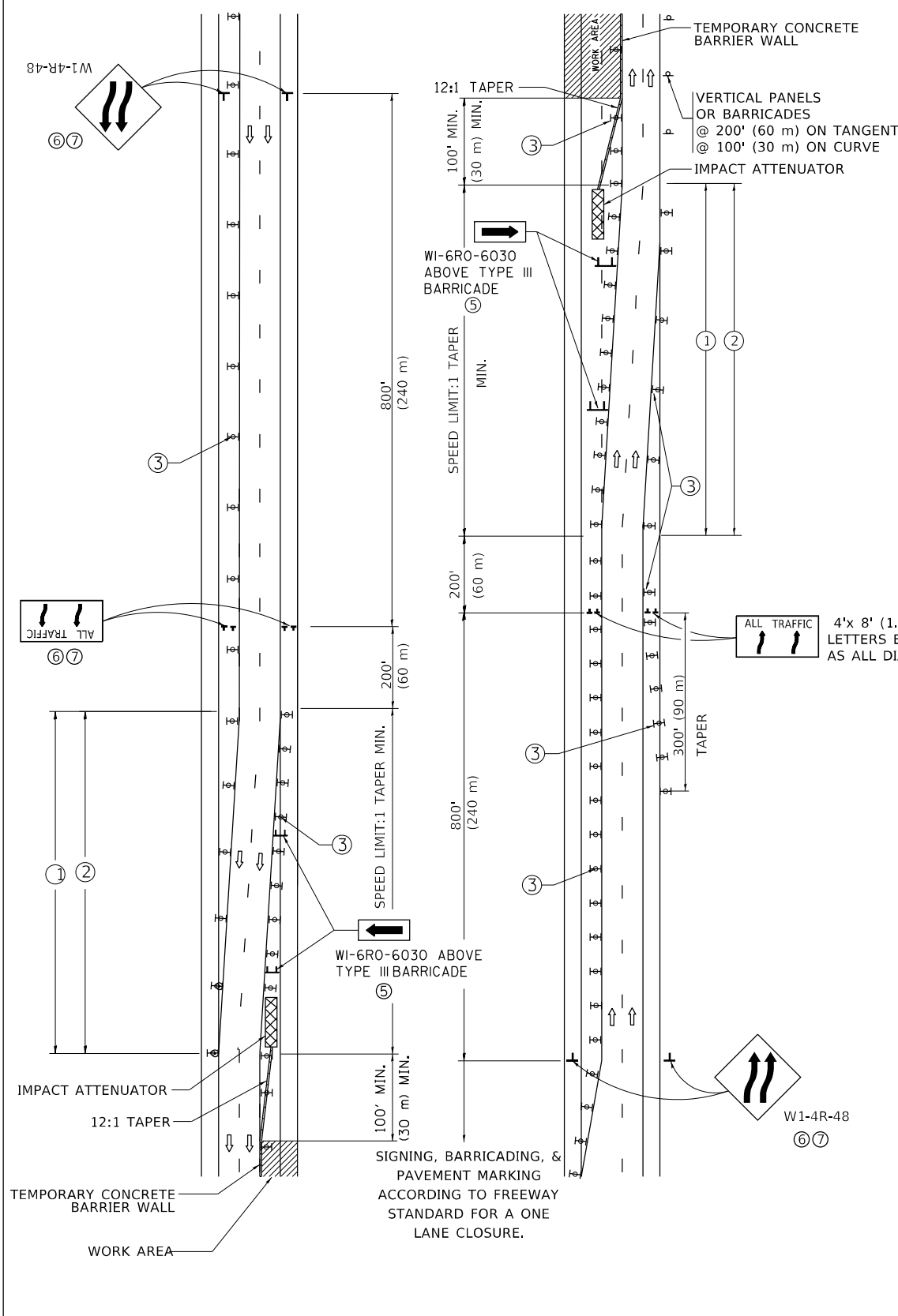
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2020-191-BR	DUPAGE	44	38
TC-08		CONTRACT NO. 62M64		
		ILLINOIS	FED. AID PROJECT	

SINGLE LANE WEAVE

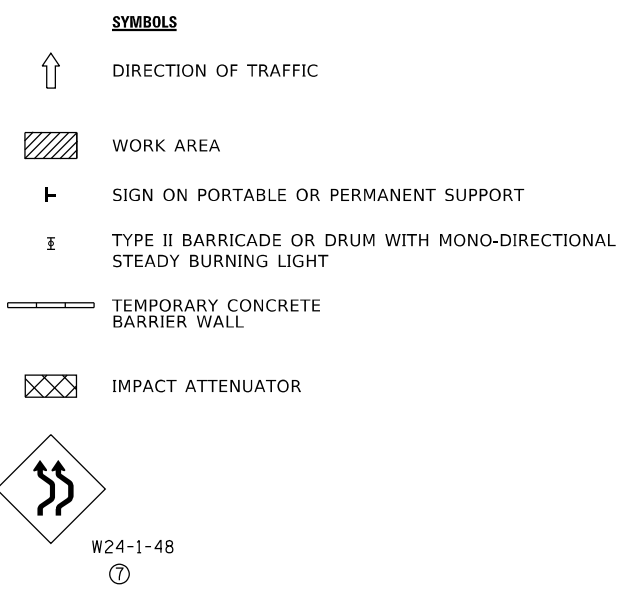


MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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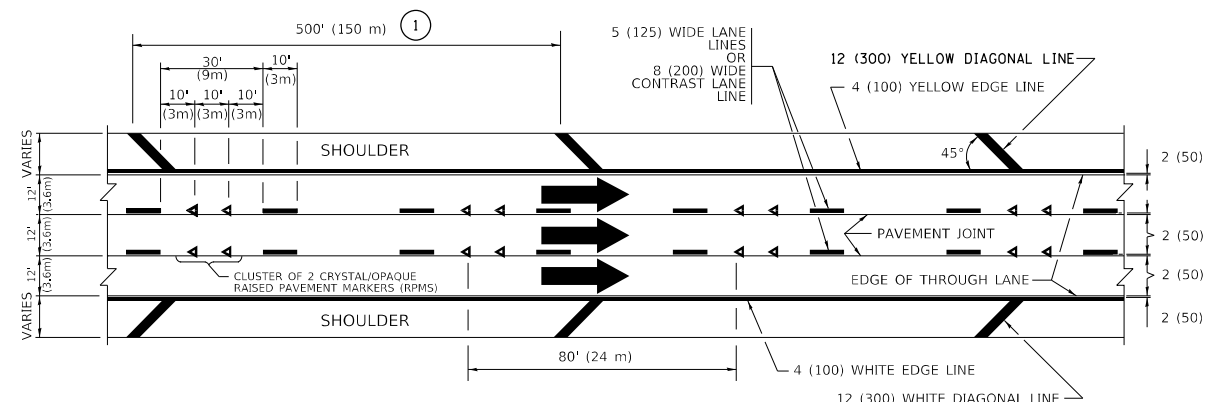
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE**

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

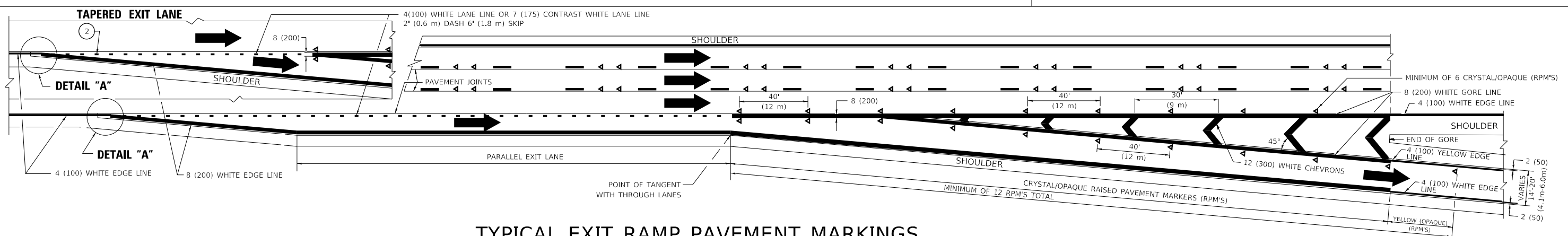
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TC-09			CONTRACT NO. 62M64	
ILLINOIS FED. AID PROJECT				



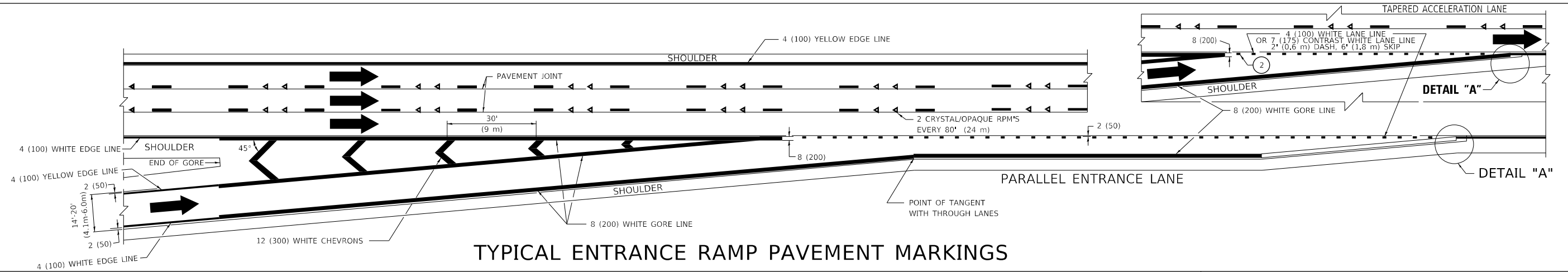
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

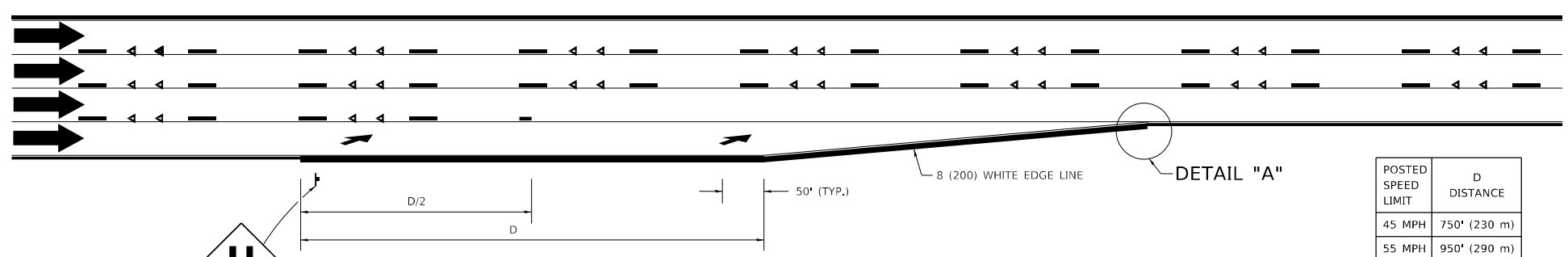
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

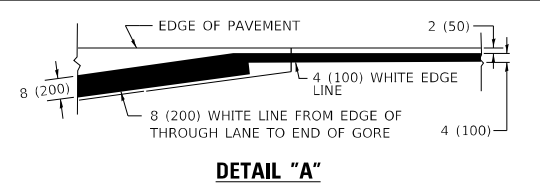


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



NOTES:

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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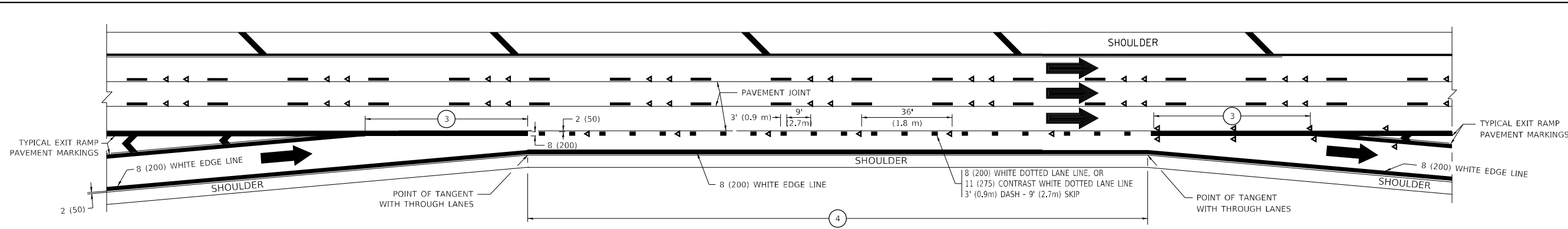
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PLOT DATE = 3/4/2019	CHECKED -	REVISED - M.D. 05-13
	DATE - 01-90	REVISED - M.D. 09-17

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

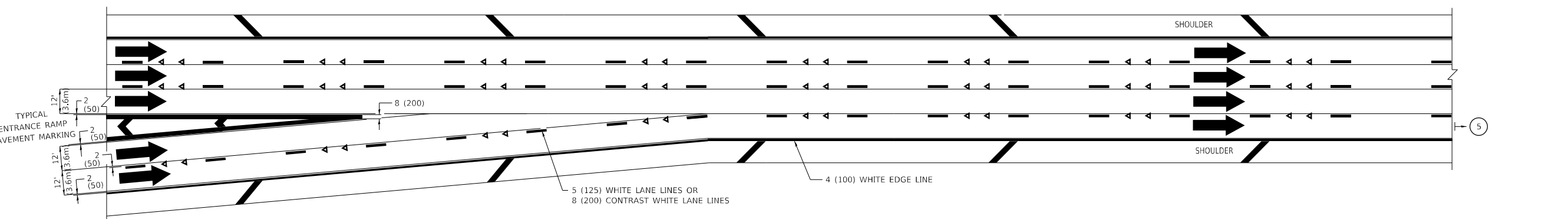
**MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS**

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

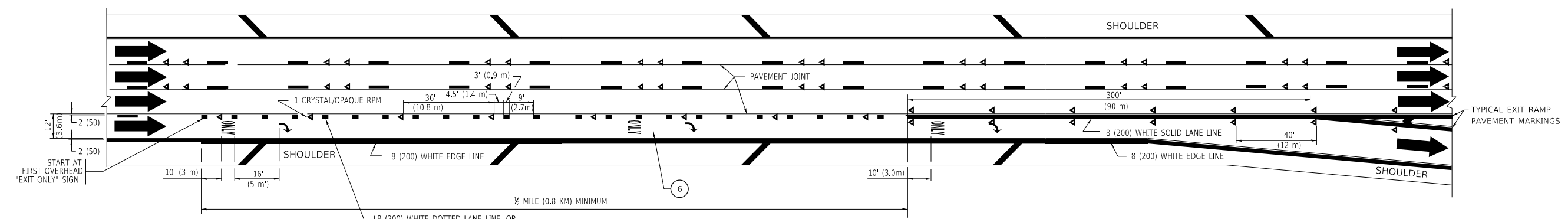
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TC-12		CONTRACT NO. 62M64		
ILLINOIS FED. AID PROJECT				



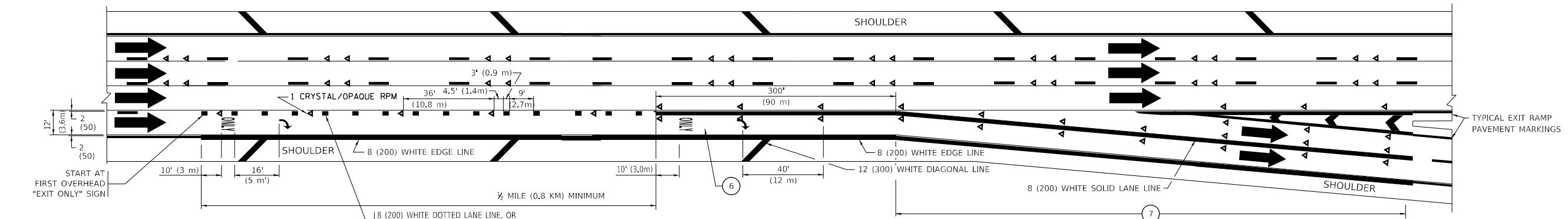
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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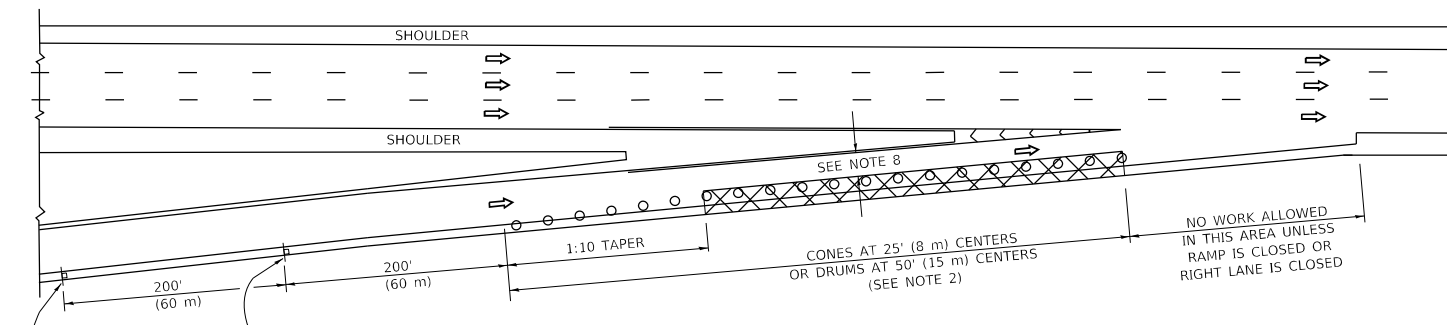
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS**

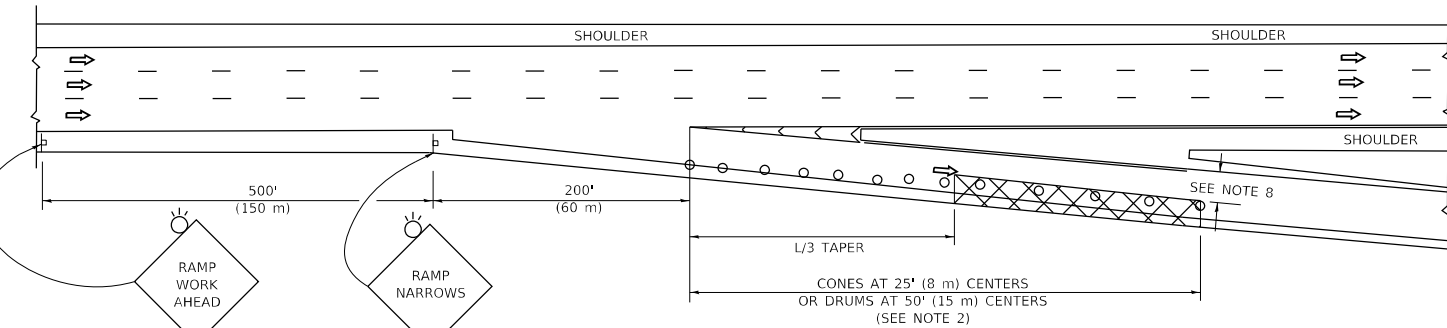
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-12		CONTRACT NO. 62M64		
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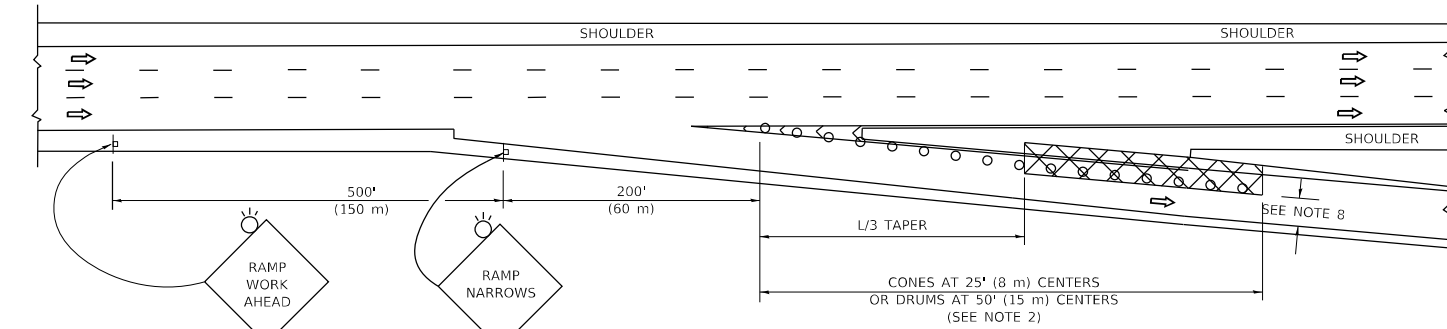
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

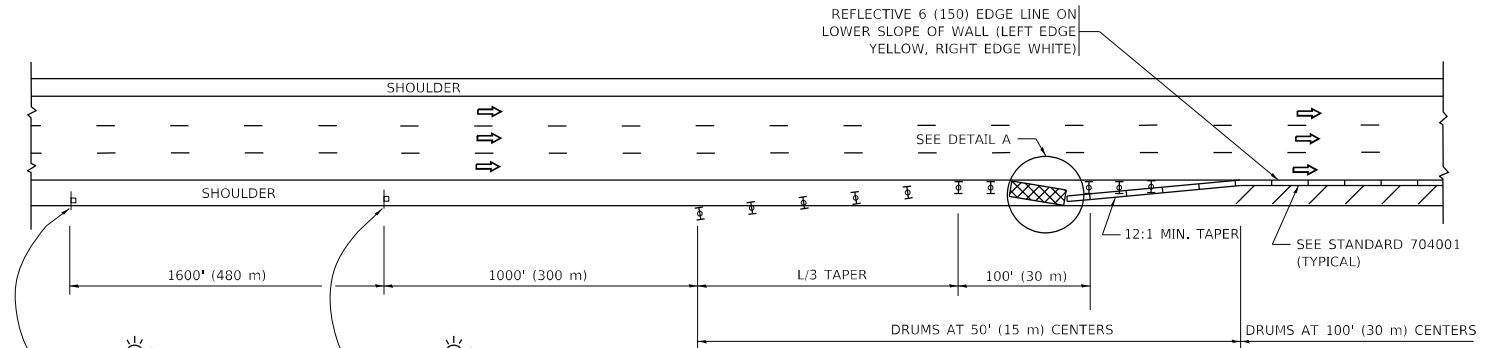
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

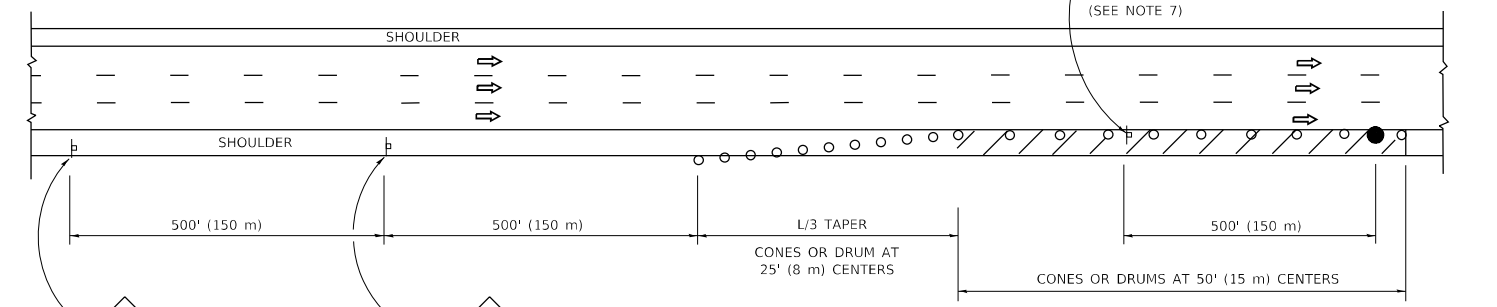
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(WXS)$ $L=(W)XS$
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 ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



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 ENCROACHMENT 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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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

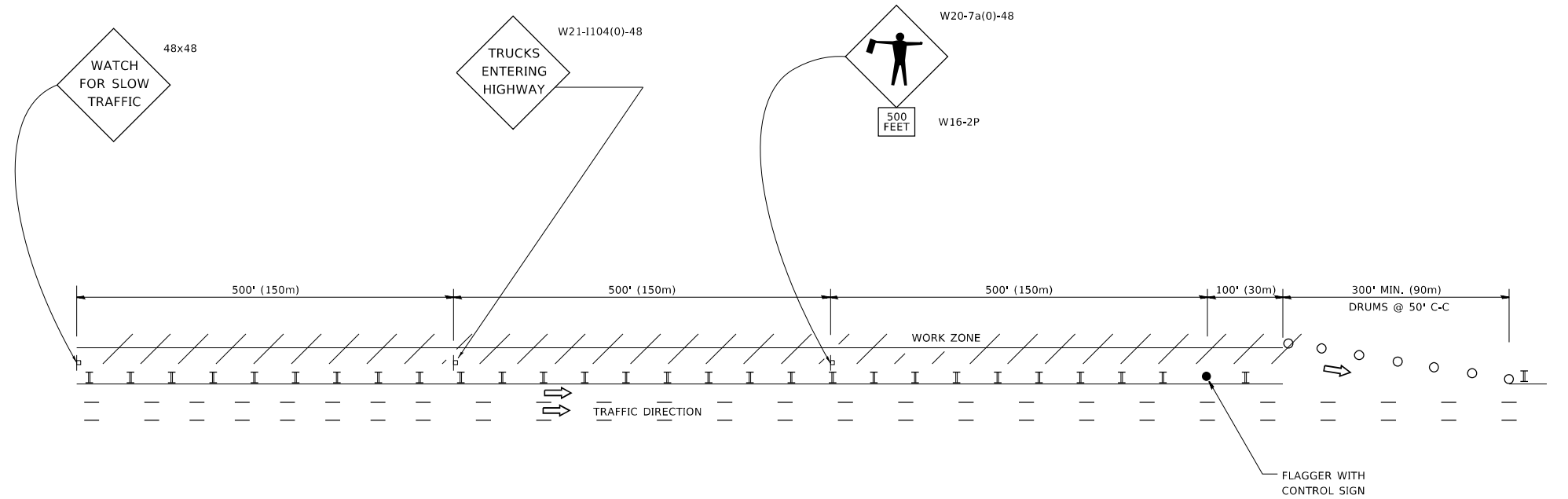
**TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

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

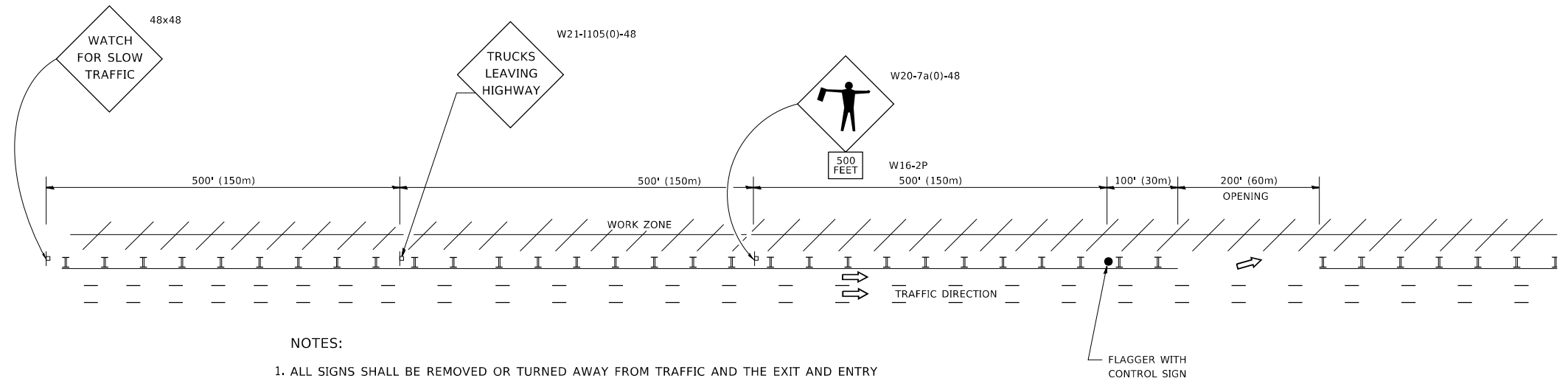
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55	2020-191-BR	DUPAGE	44	43
TC-17			CONTRACT NO. 62M64	
ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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DATE -	REVISOR - M.D.06-13

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DATE -	REVISOR - M.D.06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREEWAY /EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-18		CONTRACT NO. 62M64		
ILLINOIS FED. AID PROJECT				