

INDEX OF SHEETS

- 1 . COVER SHEET
- 2 . GENERAL NOTES
- 3 - 4 . SUMMARY OF QUANTITIES
- 5 . TYPICAL SECTIONS
- 6 - 7 . SCHEDULES
- 8 . TEMPORARY RUMBLE STRIPS (SPECIAL)
- 9 . TRAFFIC CONTROL AND PROTECTION, STANDARD 701400
- 10 . TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)
- 11 . TEMPORARY CONCRETE BARRIER WALL DELINEATION
- 12 . TYPICAL PAVEMENT MARKING
- 13 - 20 . EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0195 FOR INFORMATION ONLY
- 21 - 27 . EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0181 FOR INFORMATION ONLY

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
- 701426-09 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701901- 10 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

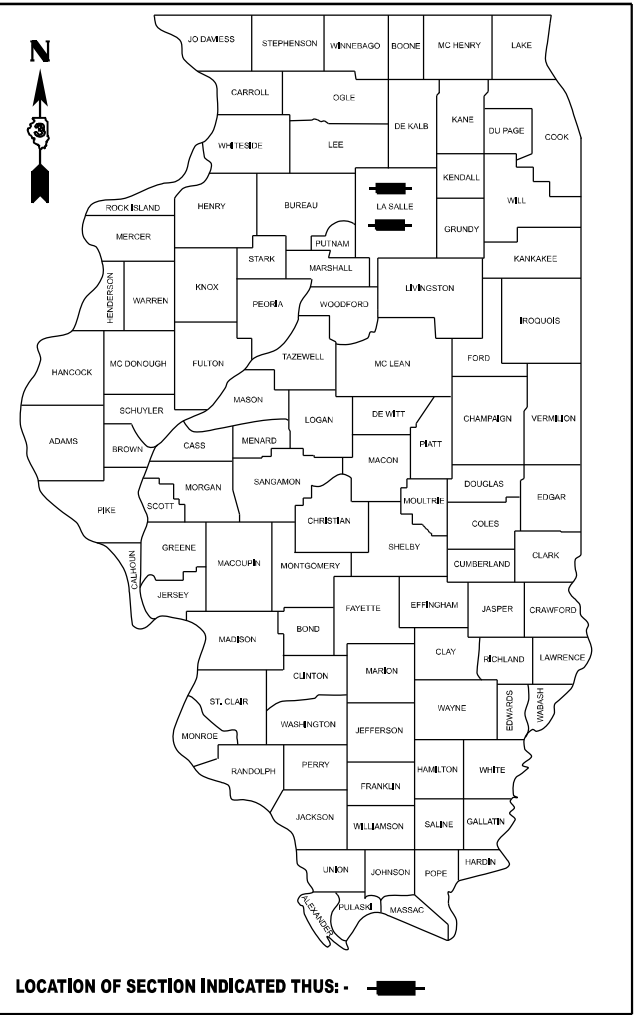
F.A.I. ROUTE 39 (I-39)
SECTION (50-4HB-3)BP-2, (50-7HB)BP-2

BRIDGE PAINTING
LASALLE COUNTY

C-93-033-23

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	1
ILLINOIS		CONTRACT NO. 66N05		

D-93-13-23



PROJECT LOCATION NO. 1

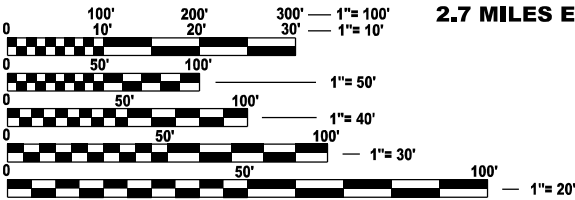
STRUCTURE NO. 050-0195
SECTION (50-4HB-3)BP-2
STA. 908+73

CARRYING F.A.P. ROUTE 623 (US 6)
OVER F.A.I. ROUTE 39 (I-39)
2.7 MILES EAST OF IL ROUTE 351 (LASALLE)

PROJECT LOCATION NO. 2

STRUCTURE NO. 050-0181
SECTION (50-7HB)BP-2
STA. 531+79

CARRYING CH 19 (F.A.S. 270)
OVER F.A.I. ROUTE 39 (I-39)
2.3 MILES NORTH OF US ROUTE 52



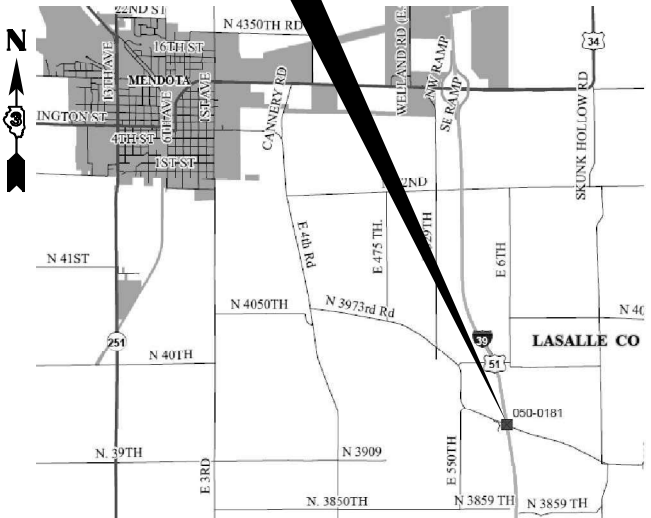
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER YOGESH PATEL P.E.
UNIT CHIEF RON WOODSHANK
DISTRICT 3 (815) 434-6131
CONTRACT NO. 66N05



POINT LOCATION



POINT LOCATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: March 25, 2025
Trisha Thompson REGIONAL ENGINEER
May 9, 2025
Scott E. Etkin ENGINEER OF DESIGN AND ENVIRONMENT
May 9, 2025
Y. Patel DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE APPROVED ADJUSTMENTS PRIOR TO ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL BOX BEAMS, STEEL I BEAMS, STEEL GIRDERS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE FOLLOWING SPECIAL PROVISIONS.

"CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

"CLEANING AND PAINTING EXISTING STEEL STRUCTURES",

THE CONTRACTOR IS BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CANNOT BE MOVED OR OPENED DURING NON-WORKING HOURS.

WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR OR SUBCONTRACTOR LISCENSED TO DISPOSED OF LEAD/NON-LEAD PAINT RESIDUES HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. IF THE LISCENSED CONTRACTOR OR SUBCONTRACTOR FAILS TO DISPOSE OF THE LEAD/NON-LEAD PAINT RESIDUES ON OR BEFORE THE SPECIFIED DATE, LIQUIDATED DAMAGES SHALL BE CHARGED PER CALENDAR DAY ACCORDING TO ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS UNTIL SUCH TIME THAT ALL PAINT RESIDUE MATERIALS HAVE BEEN REMOVED FROM THE JOB SITE AND DISPOSED OF.

STRUCTURE NOTES

STRUCTURE NO. 050-0195 IS DESIGNATED AS "LOCATION 1".

EXISTING STRUCTURAL STEEL COATING ON STRUCTURE NO. 050-0195 CONTAINS "LEAD". THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS DEALING WITH LEAD PAINT ON THIS STRUCTURE.

SSPC-QP1 AND SSPC-QP2, "PAINTING CONTRACTOR CERTIFICATIONS" SHALL BE REQUIRED FOR THIS STRUCTURE.

A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR THIS STRUCTURE. THE CONTRACTOR SHALL FURNISH AND INSTALL THE MONITORS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. LOCATION OF MONITORS SHALL BE AS DIRECTED BY THE ENGINEER. (SEE THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES").

CLEANING AND PAINTING STRUCTURAL STEEL BEAMS/GIRDERS AND STEEL COMPONENTS.

CI FANING AND PAINTING OF EXISTING STRUCTURAL STEEL AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE APPLICABLE SPECIAL PROVISIONS AND AS SPECIFIED BELOW. ALUMINUM HANDRAILS (WHEN PRESENT) SHALL NOT BE CLEANED AND PAINTED.

CLEANING.

ALL EXISTING STRUCTURAL STEEL INCLUDING ALL EXPOSED SURFACES OF THE STEEL BEAMS/GIRDERS, STEEL BEARINGS/PLATES, STEEL STIFFENERS, STEEL DRAINS, STEEL HAND RAILS (WHEN PRESENT) AND MISCELLANEOUS STEEL PLATES, BRACKETS/CLIPS.

ALL EXISTING STRUCTURAL STEEL COMPONENTS AS DESCRIBED ABOVE SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".

PAINTING.

EXTERIOR: THE FINAL FINSH COAT FOR ALL EXTERIOR STRUCTURAL STEEL SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

INTERIOR: THE FINAL FINSH COAT FOR ALL INTERIOR STRUCTURAL STEEL SHALL BE "GRAY, MUNSELL NO. 5B 7/1.

STEEL HAND RAILS (WHEN PRESENT): THE FINAL FINSH COAT FOR ALL STEEL COMPONENTS OF THE HANDRAIL SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

STRUCTURE NOTES CONT'D

STRUCTURE NO. 050-0181 IS DESIGNATED AS "LOCATION 2".

EXISTING STRUCTURAL STEEL COATING ON STRUCTURE NO. 050-0181 CONTAINS "LEAD". THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS DEALING WITH LEAD PAINT ON THIS STRUCTURE.

SSPC-QP1 AND SSPC-QP2, "PAINTING CONTRACTOR CERTIFICATIONS" SHALL BE REQUIRED FOR THIS STRUCTURE.

A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR THIS STRUCTURE. THE CONTRACTOR SHALL FURNISH AND INSTALL THE MONITORS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. LOCATION OF MONITORS SHALL BE AS DIRECTED BY THE ENGINEER. (SEE THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES").

CLEANING AND PAINTING STRUCTURAL STEEL I BEAMS/GIRDERS AND STEEL COMPONENTS.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE APPLICABLE SPECIAL PROVISIONS AND AS SPECIFIED BELOW. ALUMINUM HANDRAILS (WHEN PRESENT) SHALL NOT BE CLEANED AND PAINTED.

CLEANING.

ALL EXISTING STRUCTURAL STEEL INCLUDING ALL EXPOSED SURFACES OF THE STEEL BEAMS/GIRDERS, STEEL BEARINGS/PLATES, STEEL STIFFENERS, STEEL DRAINS, STEEL HAND RAILS (WHEN PRESENT) AND MISCELLANEOUS STEEL PLATES, BRACKETS/CLIPS.

ALL EXISTING STRUCTURAL STEEL COMPONENTS AS DESCRIBED ABOVE SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".

PAINTING.

EXTERIOR: THE FINAL FINSH COAT FOR ALL EXTERIOR STRUCTURAL STEEL SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

INTERIOR: THE FINAL FINSH COAT FOR ALL INTERIOR STRUCTURAL STEEL SHALL BE "GRAY, MUNSELL NO. 5B 7/1.

STEEL HAND RAILS (WHEN PRESENT): THE FINAL FINSH COAT FOR ALL STEEL COMPONENTS OF THE HANDRAIL SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

FUNCTIONAL CLASSIFICATION

STRUCTURE NO. 050-0195

URBAN

INTERSTATE

F.A.I. ROUTE 39 (I-39)

2021 ADT = 19,800

P.V. 62.8 % S.U. 28.3 % M.U. 8.9 %

URBAN

OTHER PRINCIPLE ARTERIAL

F.A.P. ROUTE 623 (US 6)

2021 ADT = 9,850

P.V. 83.5 % S.U. 3.3 % M.U. 13.2 %

FUNCTIONAL CLASSIFICATION

STRUCTURE NO. 050-0181

RURAL

INTERSTATE

F.A.I. ROUTE 39 (I-39)

2021 ADT =18,400

P.V. 77.9 % S.U. 18.2 % M.U. 3.9 %

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	USER NAME = ronald.woodshank		DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - RW	REVISED -					39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	2
			CHECKED - YP	REVISED -					CONTRACT NO. 66N05				
	PLOT DATE = 7/1/2024		DATE - 5/21/2024	REVISED -		SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: c:\pwwork\woodshank\002301068N05 COVER.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				BRIDGE PAINTING 100% STATE	BRIDGE PAINTING 100% STATE
				BRIDGE 0047	BRIDGE 0047
				S.N. 050-0195	S.N. 050-0181
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	770	388	382
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	254	128	126
70400100	TEMPORARY CONCRETE BARRIER	FOOT	875	450	425
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2625	1350	1275
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	6	3	3
* 78008210	POLYUREA PAVEMENT MARKING, TYPE I - LINE 4"	FOOT	3944	2040	1904
* 78008230	POLYUREA PAVEMENT MARKING, TYPE I - LINE 6"	FOOT	1902	980	922
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2266	1158	1108
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1	

*SPECIALITY ITEMS

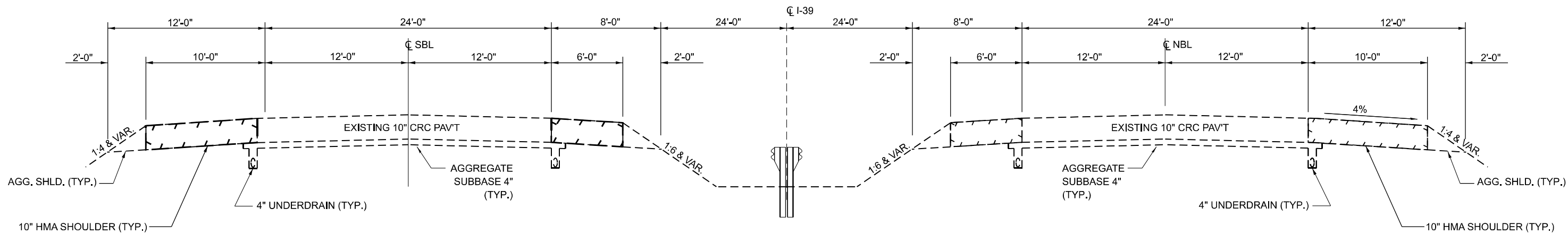
	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RW	REVISED -					39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	3
		CHECKED - YP	REVISED -					CONTRACT NO. 66N05				
	PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -		SCALE:	SHEET 1	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				BRIDGE PAINTING 100% STATE	BRIDGE PAINTING 100% STATE
				BRIDGE	BRIDGE
				0047	0047
				S.N. 050-0195	S.N. 050-0181
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1		1
X7010101	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 (SPECIAL)	EACH	1	1	
X7010118	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	16	8	8
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	1	1
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1

	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RW	REVISED -					39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	4
		CHECKED - YP	REVISED -					CONTRACT NO. 66N05				
	PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -		SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

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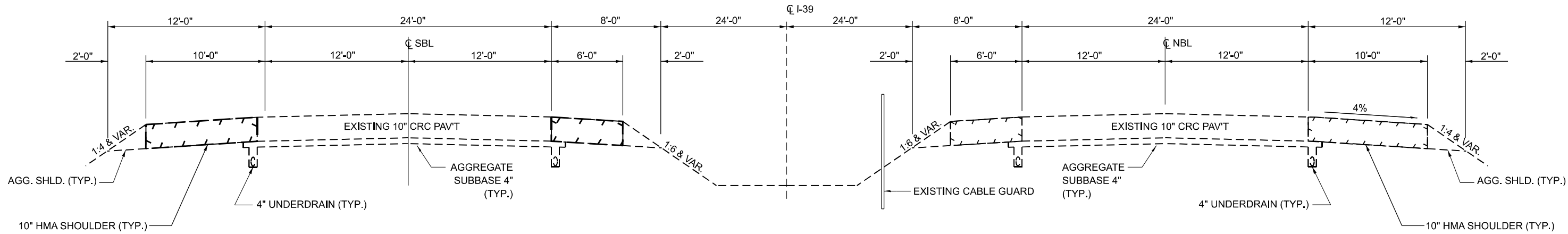


SOUTHBOUND LANES

NORTHBOUND LANES

TYPICAL SECTION 1
LOCATION 1
STRUCTURE NO. 050-0195

(LOOKING NORTH)



SOUTHBOUND LANES

NORTHBOUND LANES

TYPICAL SECTION 2
LOCATION 2
STRUCTURE NO. 050-0181

(LOOKING NORTH)

	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RW	REVISED -					39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	5
		CHECKED - YP	REVISED -					CONTRACT NO. 66N05				
	PLOT DATE = 6/13/2024	DATE - 5/21/2024	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

MODEL: Default
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SCHEDULE - TRAFFIC CONTROL AND PROTECTION

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701201 (SPECIAL)	TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)	TRAFFIC CONTROL AND PROTECTION STANDARD 701411	CHANGEABLE MESSAGE SIGN	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY NON-REDIRECTIVE, NARROW TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE NON-REDIRECTIVE, NARROW TEST LEVEL 3
	L SUM	EACH	EACH	CAL DA	EACH	FOOT	FOOT	EACH	EACH
NB PL	0.5	0.5	1	14	2	450		1	
NB DL					2		450		1
SB PL	0.5	0.5	1	14	2		450		1
SB DL					2		450		1
TOTAL	1	1	2	28	8	450	1350	1	3

SCHEDULE - PAVEMENT MARKING

LOCATION	SHORT TERM PAVEMENT MARKING	MODIFIED URETHANE PAVEMENT MARKING LINE 4"		MODIFIED URETHANE PAVEMENT MARKING LINE 6"	PAVEMENT MARKING REMOVAL WATERBLASTING		SHORT TERM PAVEMENT MARKING REMOVAL
	FOOT	FOOT		FOOT	SQ FT		SQ FT
	WHITE	YELLOW	WHITE	WHITE	LINE 4"	LINE 6"	WHITE
NORTHBOUND LANES							
PASSING LANE	194	510		490	168	243	64
DRIVING LANE			510		168		
SUBTOTAL	194	510	510	490	336	243	64
SOUTHBOUND LANES							
PASSING LANE	194	510		490	168	243	64
DRIVING LANE			510		168		
SUBTOTAL	194	510	510	490	336	243	64
TOTAL	388	2040		980	1158		128

SCHEDULE - CLEANING AND PAINTING

LOCATION	CONTAINMENT AND DISPOSAL LEAD PAINT CLEANING RESIDUES NO. 1	CLEANING AND PAINTING STEEL BRIDGE NO. 1	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1
	L SUM	L SUM	EACH
SN 050-0195	1	1	1
TOTAL	1	1	1

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SCHEDULE - TRAFFIC CONTROL AND PROTECTION

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)	CHANGEABLE MESSAGE SIGN	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY NON-REDIRECTIVE, NARROW TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE NON-REDIRECTIVE, NARROW TEST LEVEL 3
	EACH	EACH	CAL DA	EACH	FOOT	FOOT	EACH	EACH
NB PL	0.5	0.5	14	2	400		1	
NB DL				2		425		1
SB PL			14	2		425		1
SB DL				2		425		1
TOTAL	1	1	28	8	400	1275	1	3

SCHEDULE - PAVEMENT MARKING

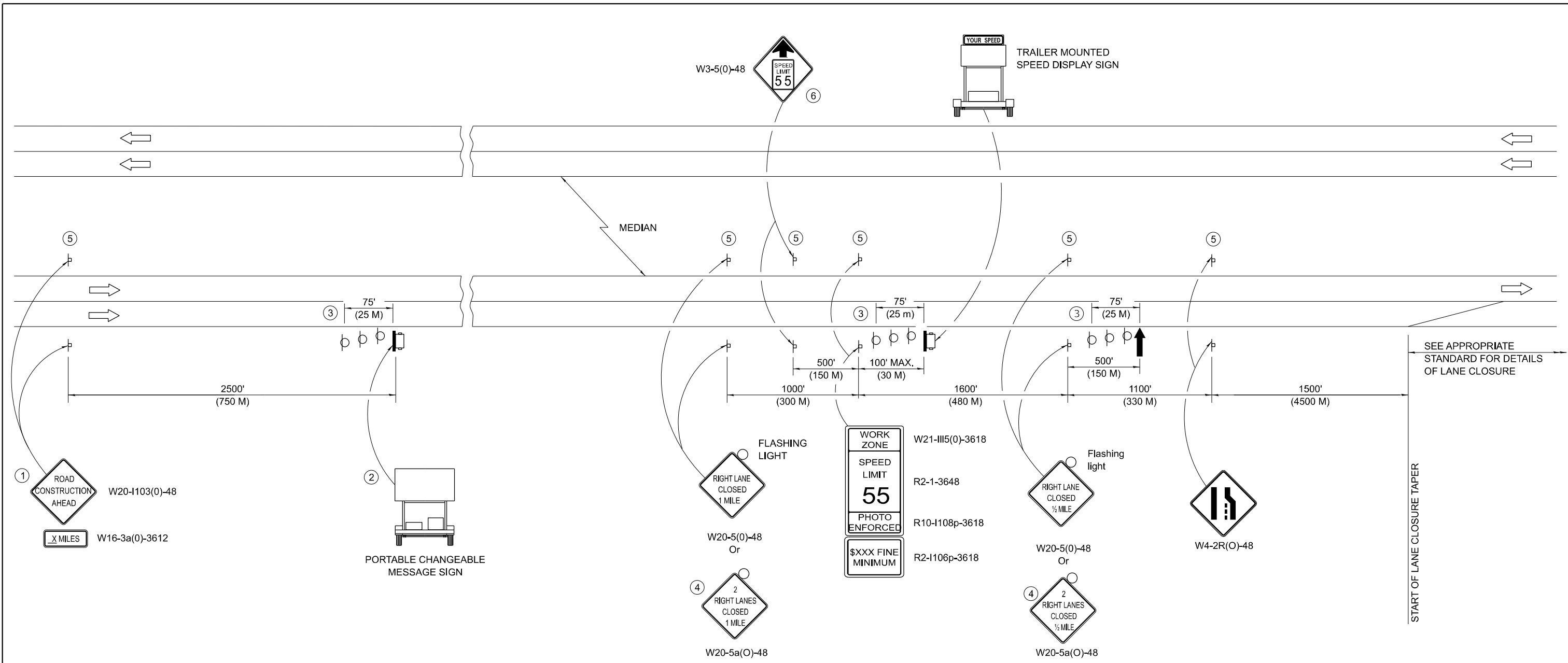
LOCATION	SHORT TERM PAVEMENT MARKING	MODIFIED URETHANE PAVEMENT MARKING LINE 4"		MODIFIED URETHANE PAVEMENT MARKING LINE 6"	PAVEMENT MARKING REMOVAL WATERBLASTING		SHORT TERM PAVEMENT MARKING REMOVAL
	FOOT	FOOT		FOOT	SQ FT		SQ FT
	WHITE	YELLOW	WHITE	WHITE	LINE 4"	LINE 6"	
NORTHBOUND LANES							
PASSING LANE	191	476		461	157	240	63
DRIVING LANE			476		157		
SUBTOTAL	191	476	476	461	314	240	63
SOUTHBOUND LANES							
PASSING LANE	191	476		461	157	240	63
DRIVING LANE			476		157		
SUBTOTAL	191	476	476	461	314	240	63
TOTAL	382	952	952	922	1108		126

SCHEDULE - CLEANING AND PAINTING

LOCATION	CONTAINMENT AND DISPOSAL LEAD PAINT CLEANING RESIDUES NO. 2	CLEANING AND PAINTING STEEL BRIDGE NO. 2	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2
	L SUM	L SUM	EACH
SN 050-0181	1	1	1
TOTAL	1	1	1

	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES FOR LOCATION NO. 2 - STRUCTURE NO. 050-0181			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RW	REVISED -					39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	7
		CHECKED - YP	REVISED -		CONTRACT NO. 66N05							
	PLOT DATE = 7/2/2024	DATE - 5/21/2024	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT

MODEL: Default
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SYMBOLS

- ↑ ARROW BOARD
- ▮ TRAILER MOUNTED SIGN
- ▮ SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

- THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS.
- THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:

"RIGHT LANE CLOSED" / " X MILES AHEAD"
"LEFT LANE CLOSED" / " X MILES AHEAD"
"ALL LANES OPEN"
- THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' (8 M) CENTERS.
- THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- THIS SIGN SHALL BE OMITTED WHEN MEDIAN WIDTH IS LESS THAN 10' (3 M).
- THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY. WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

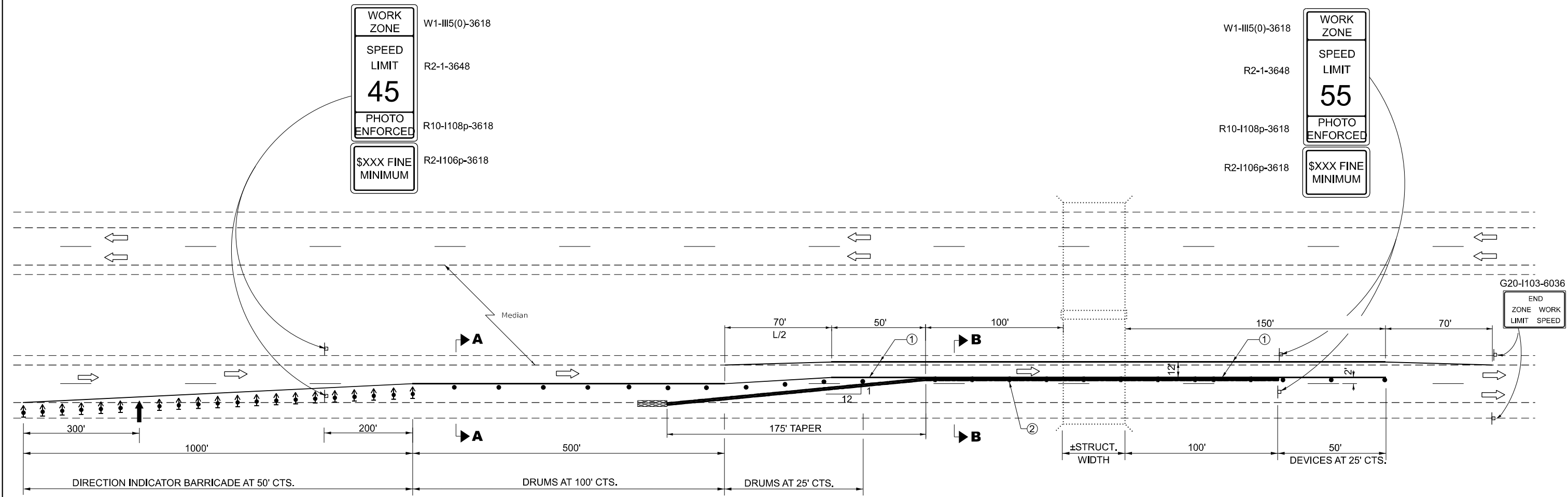
THE FIRST SIGN AND THE MESSAGE BOARD ARE STATIONARY.

THE LAST FOUR SIGNS AND ARROW BOARD SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

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

	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION, STANDARD 701400			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RW	REVISED -					39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	8
		CHECKED - YP	REVISED -					CONTRACT NO. 66N05				
	PLOT DATE = 6/13/2024	DATE - 5/21/2024	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: c:\pwwork\woodshank\td092301\066N05 COVER.dgn



SEQUENCE OF LANE CLOSURES

1. NORTHBOUND DRIVE LANE - INITIAL LANE CLOSURE SET-UP
2. NORTHBOUND PASSING LANE - RELOCATED TRAFFIC CONTROL
3. SOUTHBOUND DRIVE LANE - RELOCATED TRAFFIC CONTROL FROM NORTHBOUND LANES
4. SOUTHBOUND PASSING LANE - RELOCATED TRAFFIC CONTROL

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 (600) OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

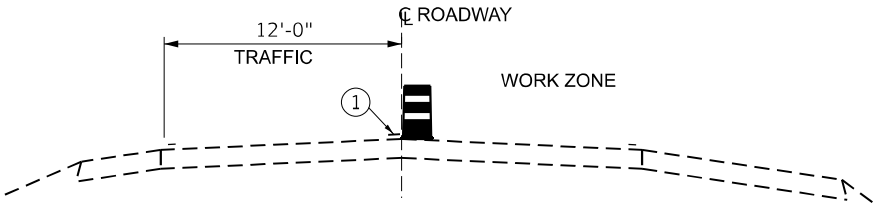
CALCULATE L AS FOLLOWS:

NORMAL POSTED SPEED: 45 MPH OR MORE

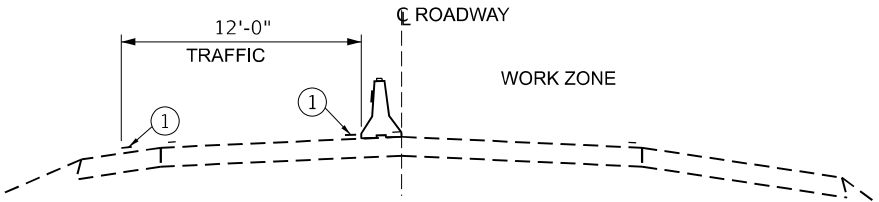
FORMULA: ENGLISH $L = (W)(S)$

W = WIDTH OF OFFSET IN FEET.

S = NORMAL POSTED SPEED IN MPH.



SECTION A-A



SECTION B-B

SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- ⚡ SIGN
- ↑ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM, WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL GUARDRAIL REFLECTOR
- ▨ IMPACT ATTENUATOR

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② BARRIER WALL REFLECTORS AT 25' MARKERS ON RIGHT SHALL BE SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER, SEE STANDARDS 704001 AND 782006.
- ③ VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

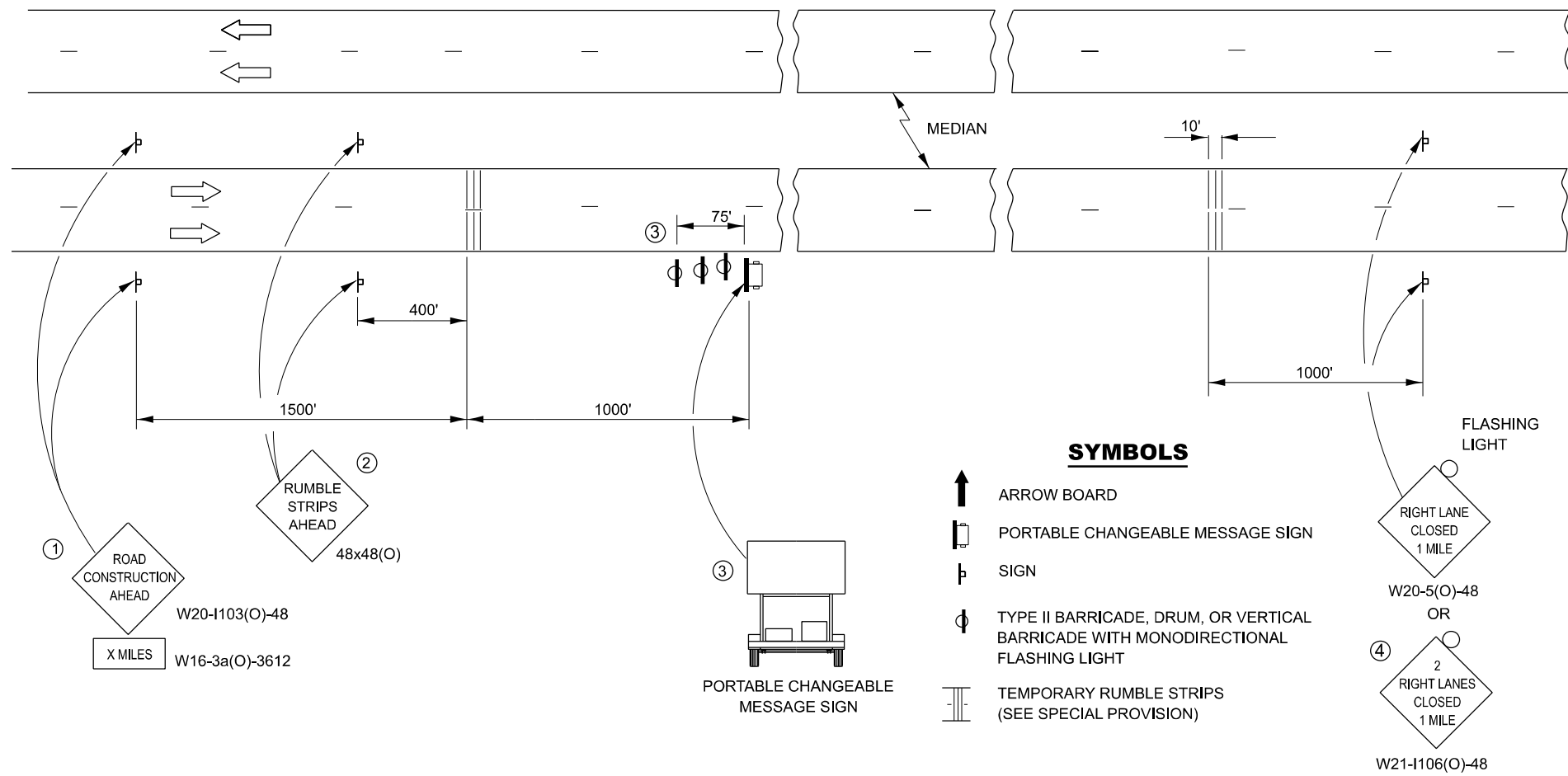
TRAFFIC CONTROL AND PROTCTION, STANDARD 701402 (SPECIAL)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	9
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 6/13/2024	DATE - 5/21/2024	REVISED -

MODEL: Default
FILE NAME: c:\pwwork\woodshank\td082201\068N05 COVER.dgn



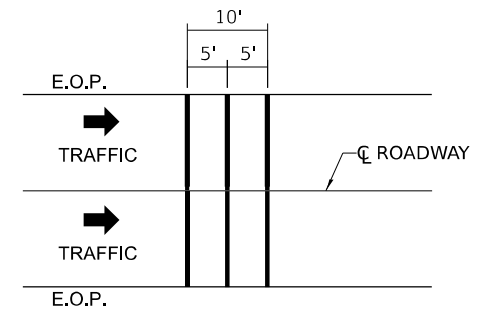
SYMBOLS

- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⌋ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ⌋ TEMPORARY RUMBLE STRIPS (SEE SPECIAL PROVISION)

GENERAL NOTES

THIS DETAIL MUST BE USED IN COMBINATION WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 WHENEVER TEMPORARY RUMBLE STRIPS ARE REQUIRED.

FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED AS "ONE EACH".

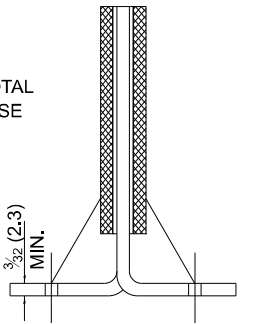
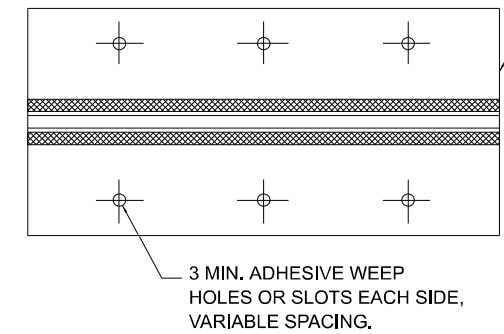
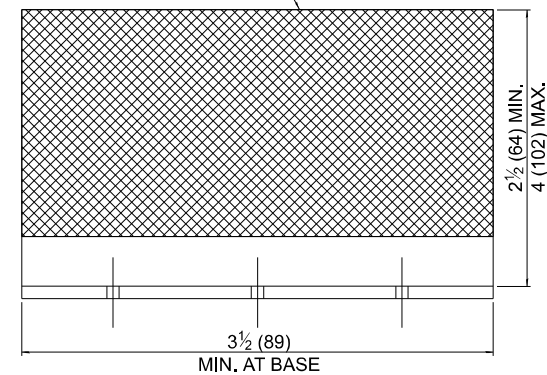
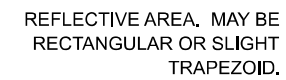
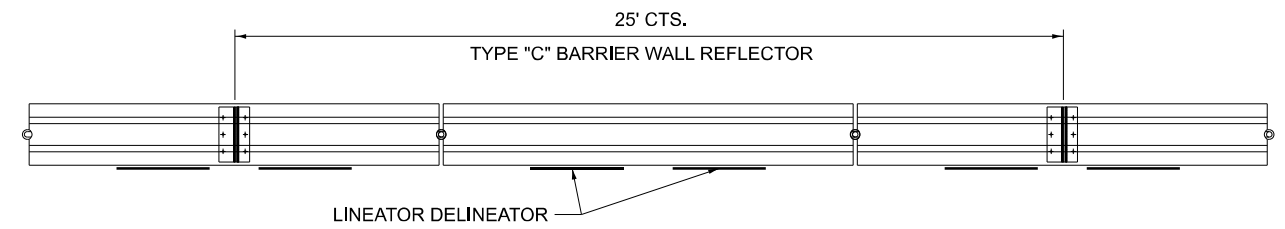
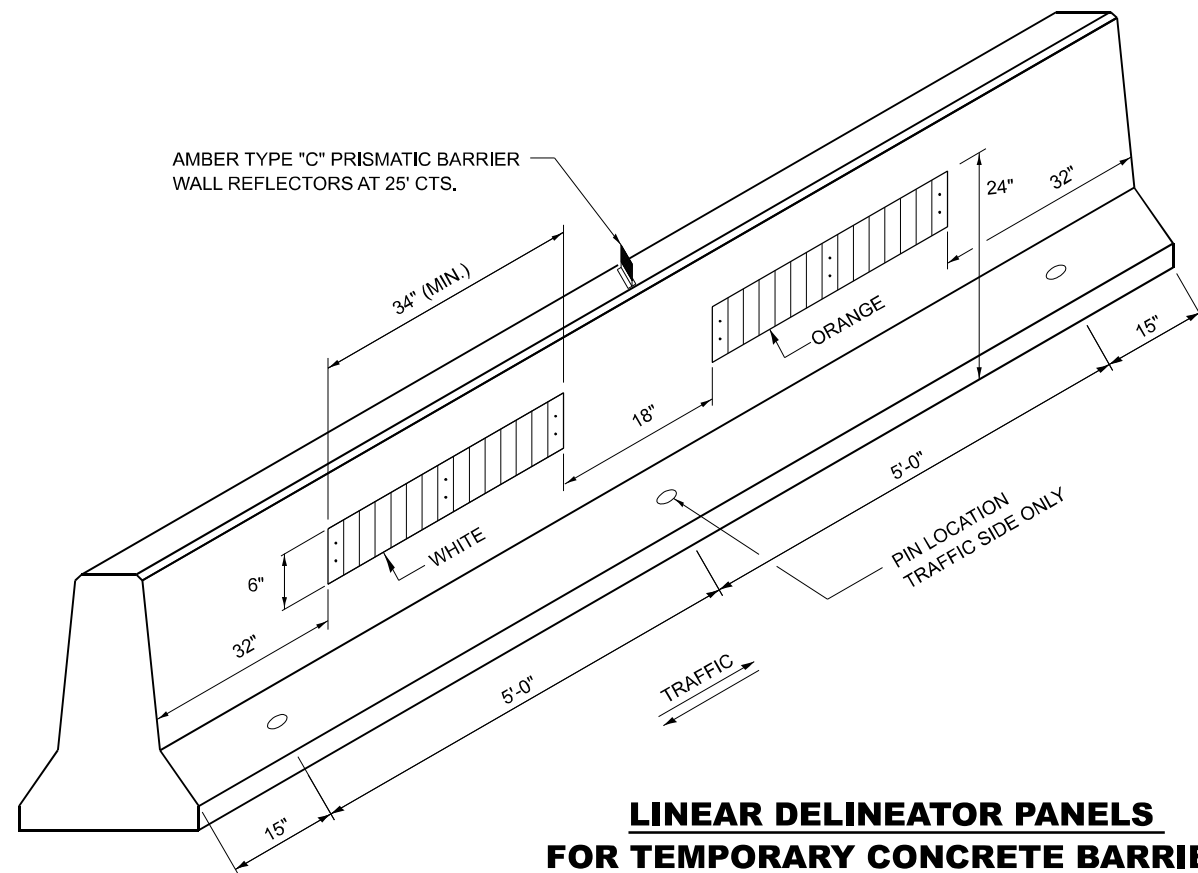


TEMPORARY RUMBLE STRIP (SPECIAL)

FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED "ONE EACH".

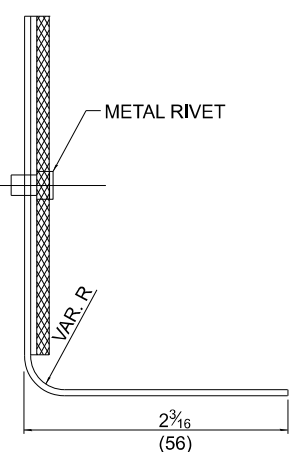
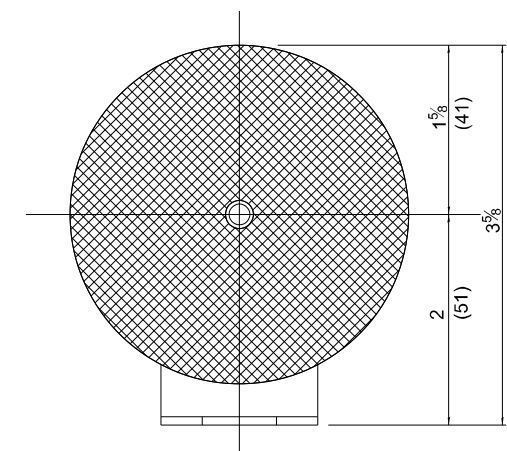
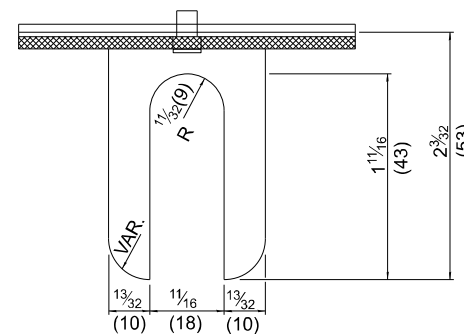
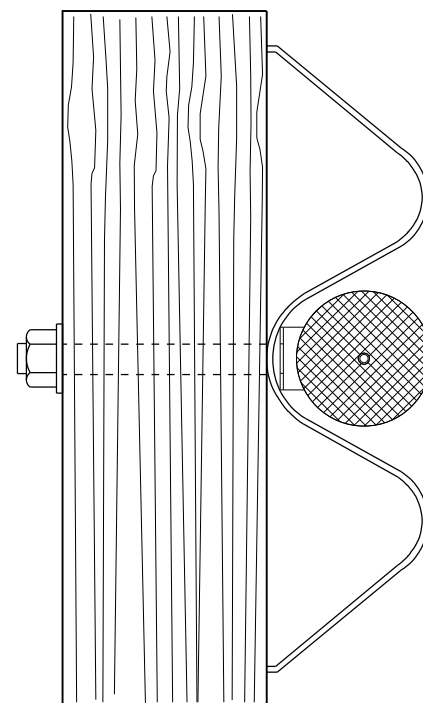
FREEWAYS AND EXPRESSWAYS

	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY RUMBLE STRIPS (SPECIAL)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RW	REVISED -					39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	10
		CHECKED - YP	REVISED -					CONTRACT NO. 66N05				
	PLOT DATE = 7/1/2024	DATE - 5/21/2024	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



REFLECTOR TYPE C

TEMPORARY CONCRETE BARRAIER WALL



REFLECTOR TYPE A

(MONODIRECTIONAL SHOWN)
STEEL PLATE BEAM GUARDRAIL

TYPICAL MOUNTING DETAIL
FOR GUARDRAIL TYPE "A" REFLECTOR

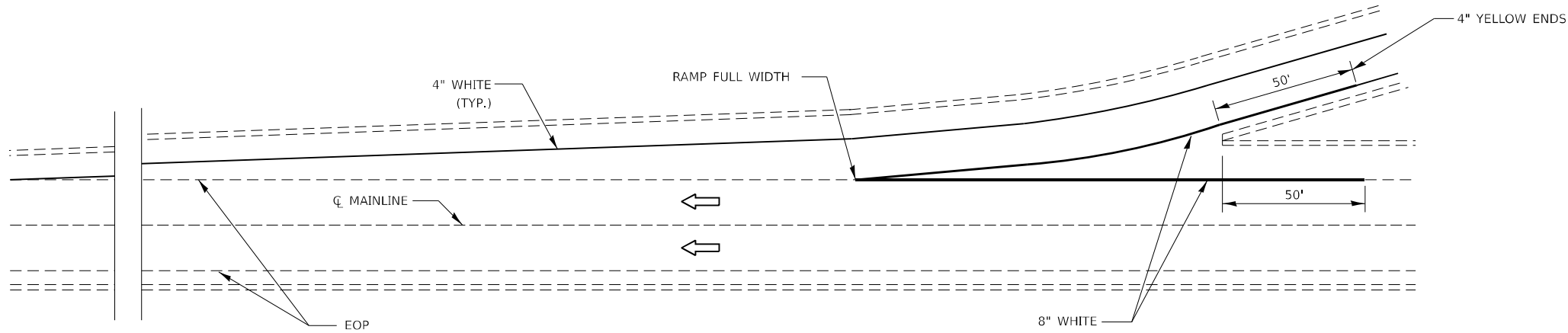
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	DRAWN - RW	REVISED - _____
PLOT SCALE = \$S\$ALES	CHECKED - YP	REVISED - _____
PLOT DATE = 6/13/2024	DATE = 9/21/2023	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

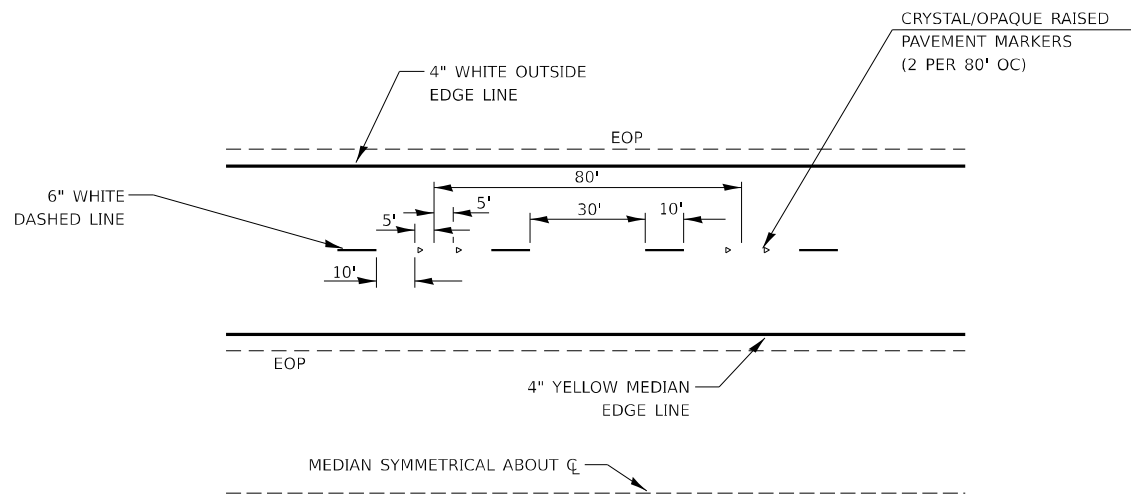
TEMPORARY CONCRETE BARRIER WALL DELINEATION

SCALE: _____	SHEET 1 OF 1 SHEETS	STA. _____ TO STA. _____
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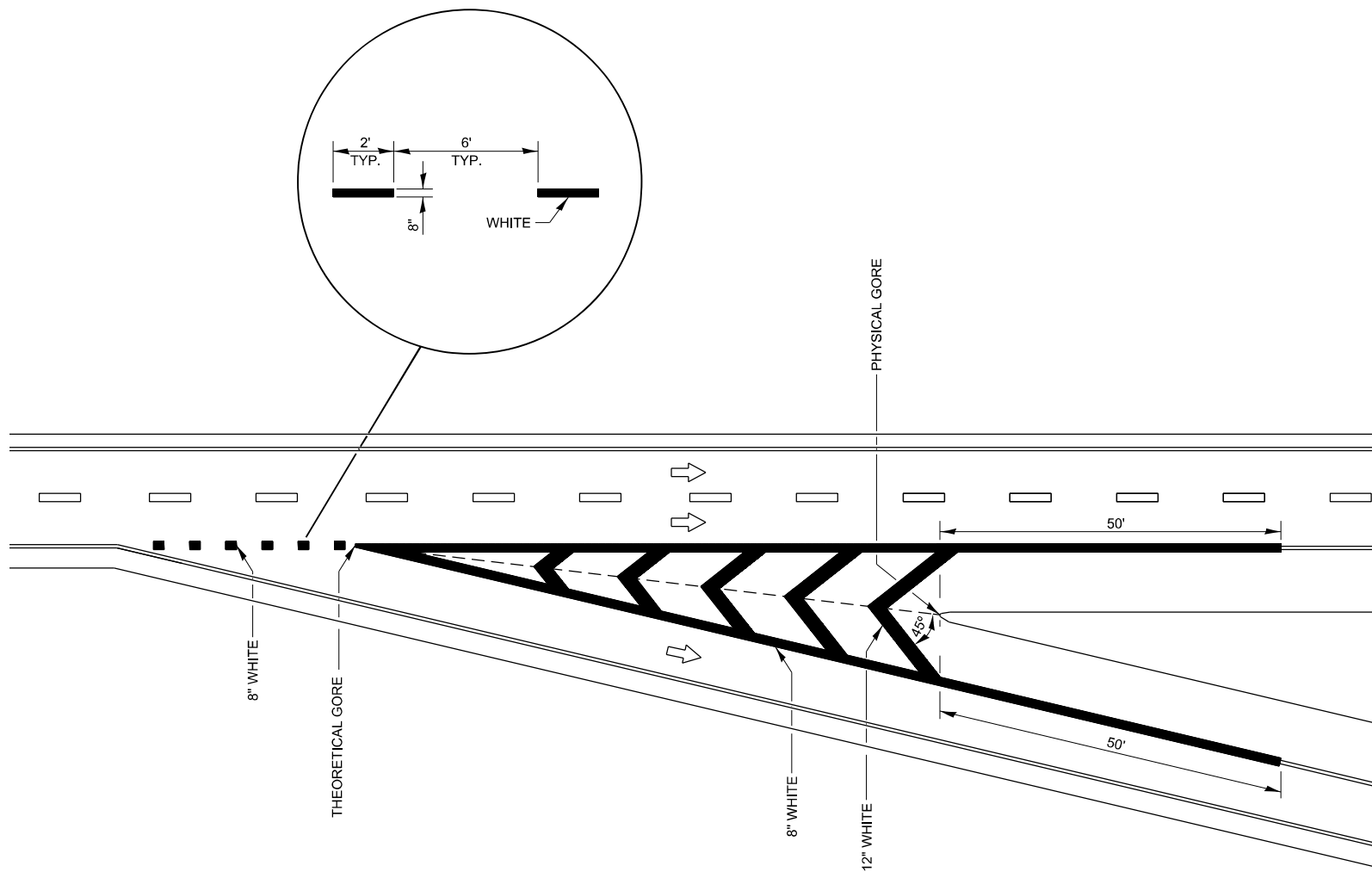
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4B)BR-1	LASALLE	27	11
		CONTRACT NO. 66P06		
ILLINOIS		FED. AID PROJECT		



TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS



TYPICAL PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS

MODEL: Default
FILE NAME: c:\pwworkspace\woodshank\1032301\066N05 COVER.dgn

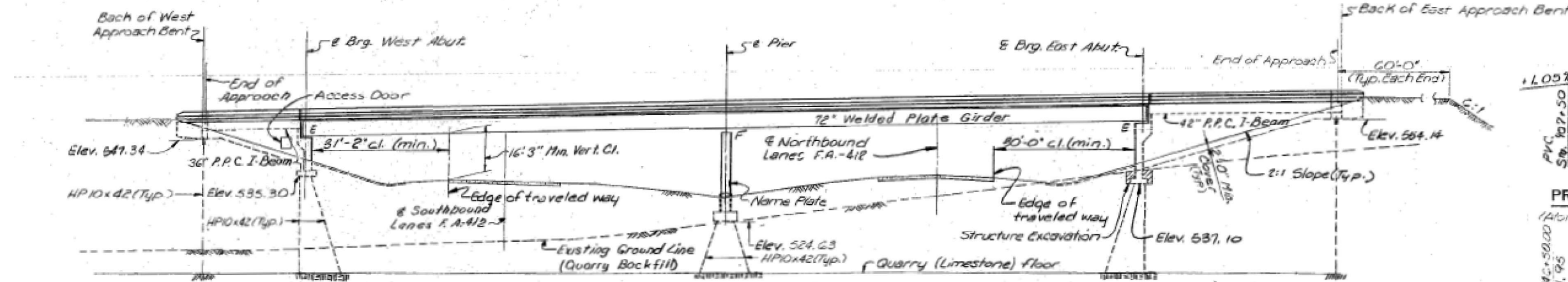
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	DRAWN - RW	REVISED - ____
	CHECKED - YP	REVISED - ____
PLOT DATE = 6/13/2024	DATE - 5/21/2024	REVISED - ____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

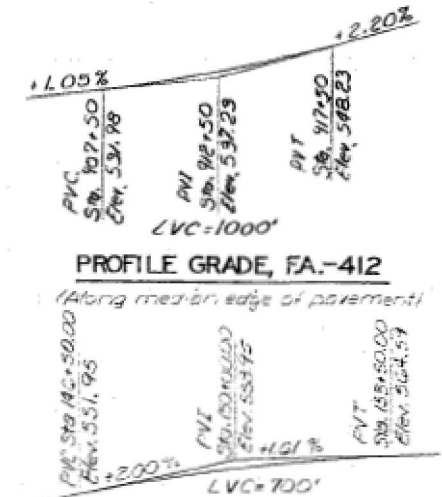
TYPICAL PAVEMENT MARKING

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

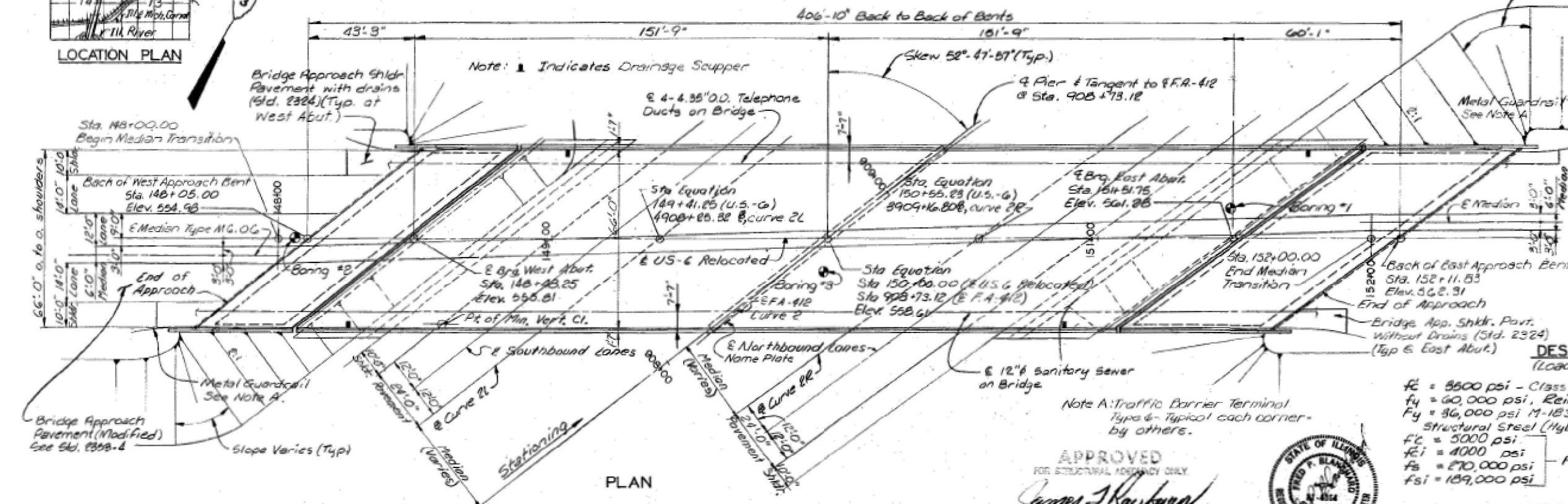
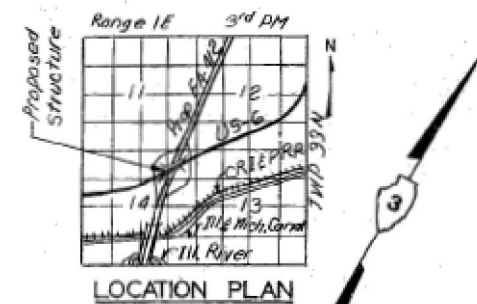
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	12
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				



ELEVATION
Note: Slopes shown are normal to median edge of pavement on Northbound & Southbound lanes.



PROFILE GRADE, RELOCATED US-6



BENCH MARKS
B.M. #30: Chiseled in concrete headwall of culvert under U.S. 6 on south side of highway 27' R. Sta. 903+52.00 (FA-412) Elev. 526.23
B.M. #31: R.R. Spike in power pole @ S.W. corner of U.S. 6 & Tracy Grove Road (27' R. Sta. 122+02.0 (U.S. 6 Relocated) Elev. 518.07

DESIGN LOADING
Live Load H.S. 20-44 AASHTO 1971 and '78 thru '83 Interim Specifications. Dead load includes 25 lbs./sq. ft. for future wearing surface.

DESIGN STRESSES
(Load Factor Design)

$f_c = 5500$ psi - Class K Concrete
 $f_y = 60,000$ psi - Reinforcing Steel
 $F_y = 36,000$ psi M-183 & 50,000 psi M-223 Grade 50 Structural Steel (Hybrid Construction)
 $f_c = 5000$ psi
 $f_t = 4000$ psi
 $f_s = 270,000$ psi - Precast Prestressed Units
 $f_{si} = 189,000$ psi

U.S. 6 OVER FA. 412
GENERAL PLAN AND ELEVATION

SECTION 50-4HB-3 PROJECT EBF-412-4(6)
STA 908+73.12 (FA-412) LASALLE CO

STRUCTURE NO. 050-0195
FOR INFORMATION ONLY

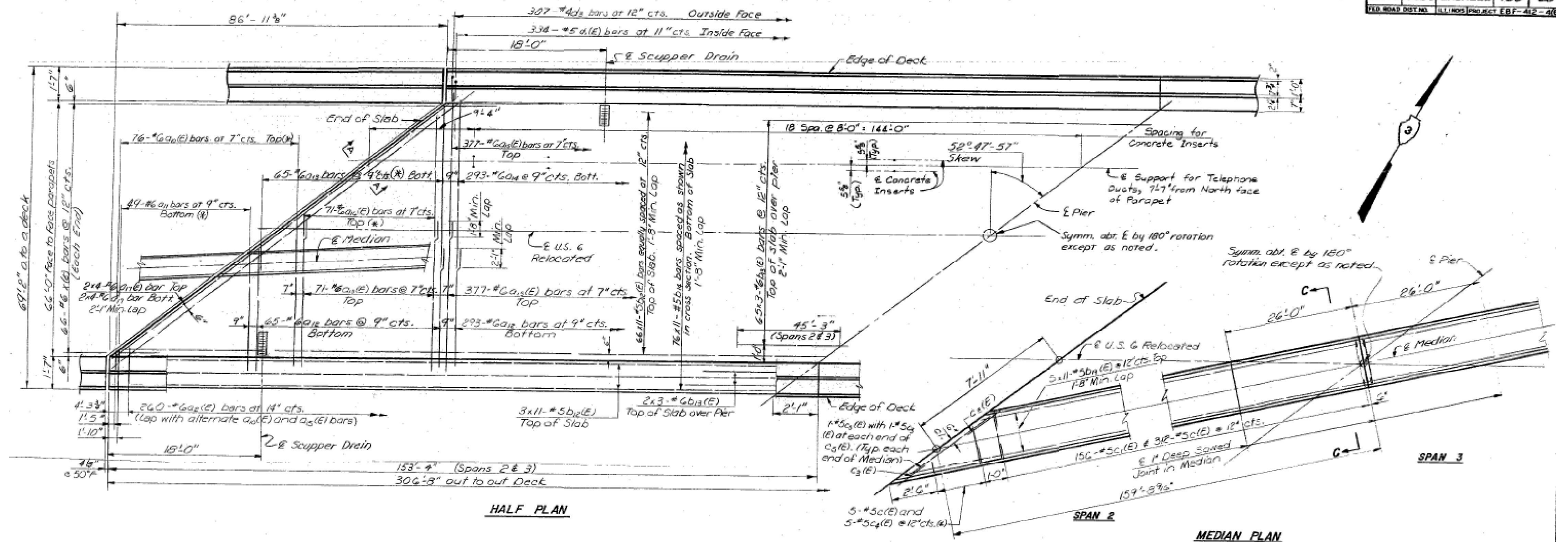
DESIGNED
T. Ritzheimer
CHECKED
R. A. Prescher
DRAWN
C. Lizana
CHECKED

CURVE 2L
P.I. = 4911+16.68
P.C. = 4904+23.13
P.T. = 4918+09.80
 $\Delta = 3^\circ-28'-00''$ Rt.
D = 0'-15'-00"
R = 22910.31'
L = 1306.67'
T = 693.55'
E = 10.49'
S.E. = 0.0156'/ft. (80 M.P.H.)
Begin = 4902+63.00 @ FA-412
Full = 4905+03.00 To 4917+30.00 @ CV 2L
End = 4919+10.00 @ FA-412

CURVE 2
P.I. = 905+18.25
P.C. = 891+31.16
P.T. = 919+04.49
 $\Delta = 3^\circ-28'-00''$ Rt.
D = 0'-07'-30"
R = 45,836.62'
L = 2773.33'
T = 1387.09'
E = 20.98'

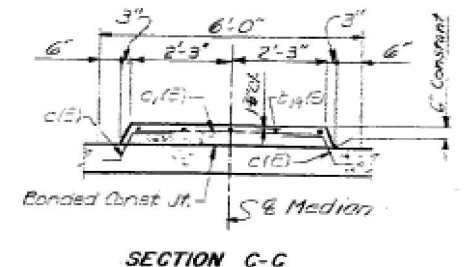
CURVE 2R
P.I. = 3899+17.84
P.C. = 3892+24.29
P.T. = 3906+10.96
 $\Delta = 3^\circ-28'-00''$ Rt.
D = 0'-15'-00"
R = 22,910.31'
L = 1306.67'
T = 693.55'
E = 10.49'
S.E. = 0.0156'/ft. (80 M.P.H.)
Begin = 3890+64.00 @ FA-412
Full = 3893+04.00 To 3905+30.00 @ CV 2R
End = 3907+70.00 @ FA-412

PREPARED BY:
SVENDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI



NOTES

(1) Order $a_{10}(E)$, a_{11} , a_{12} , $a_{13}(E)$ and $a_{14}(E)$ bars full length. Cut to fit skew and use remainder of bars in opposite end.
For Section A-A, drain details, and Bill of Materials see Sheet 9.
All bars in slab, parapet & median shall be epoxy coated.
Bars indicated thus $66 \times 11-5$ etc. indicates 66 lines of bars with 11 lengths per line.

**STRUCTURE NO. 050-0195
FOR INFORMATION ONLY**

U.S. 6 OVER F.A. 412

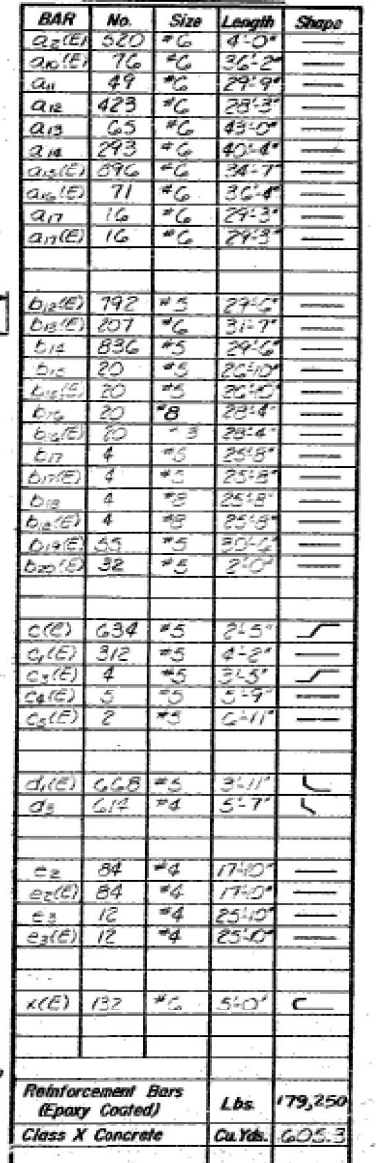
SLAB - SPANS 2 & 3

SECTION 50-412-3 PROJECT EBF-412-4 (6)
STA. 908+73.12 (F.A.-412) LASALLE CO.PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURISTATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATIONEXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0195
FOR INFORMATION ONLY

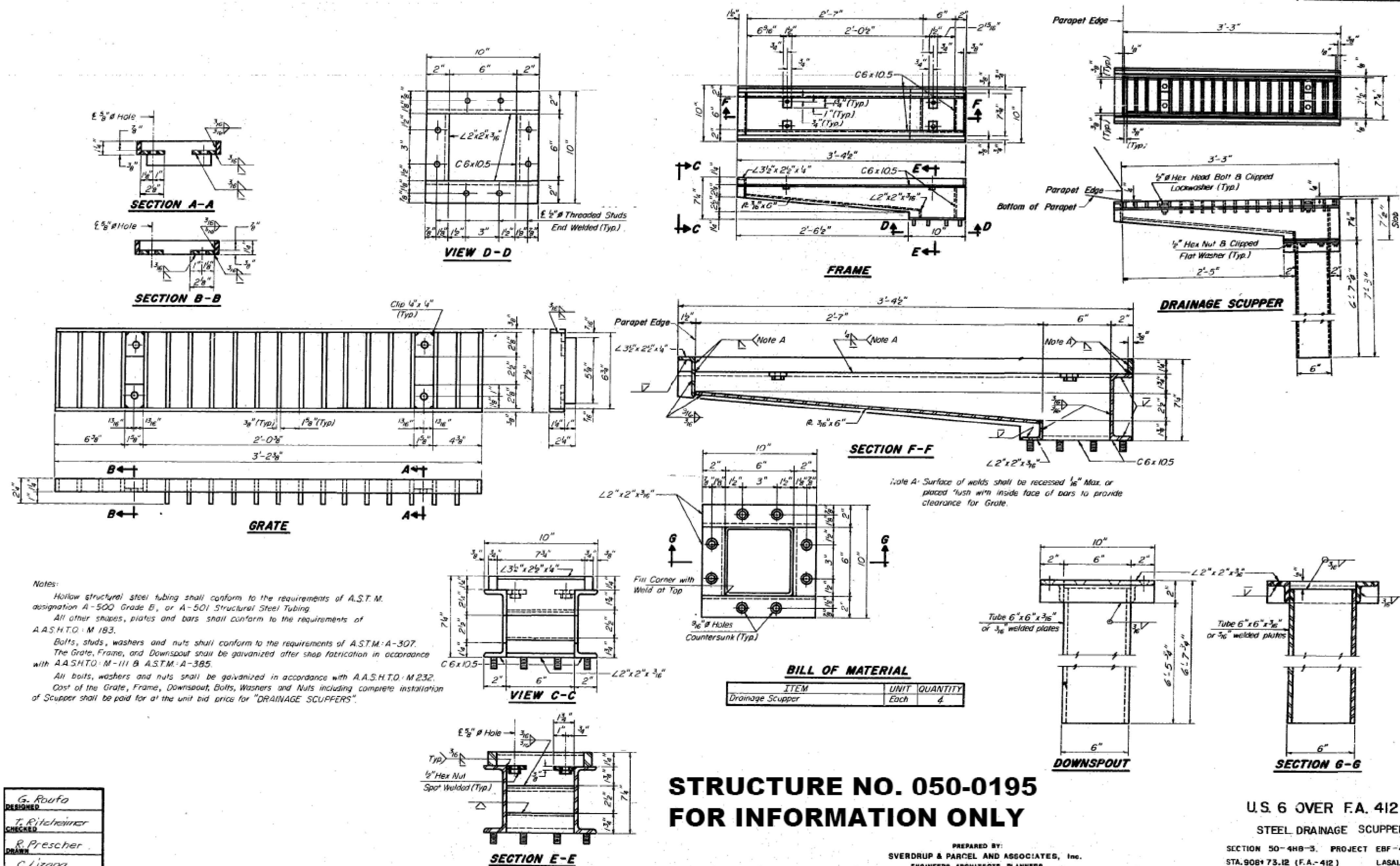
SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-412-3)BP-2, (50-712)BP-2	LASALLE	27	14
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 6/13/2024	DATE - 5/21/2024	REVISED -



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	15
		CONTRACT NO. 66N05		
		ILLINOIS	EED. AID PROJECT	



STRUCTURE NO. 050-0195 FOR INFORMATION ONLY

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

U.S. 6 OVER F.A. 412
STEEL DRAINAGE SCUPPER

SECTION 50-4B-3, PROJECT EBF-412-4(6)
STA. 90B+73.12 (F.A.-412) LASALLE CO.

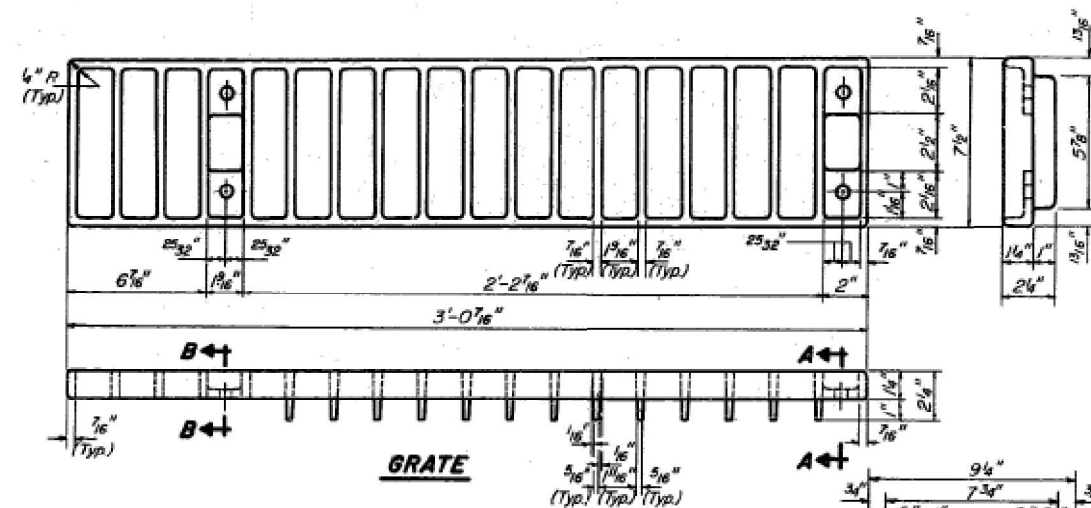
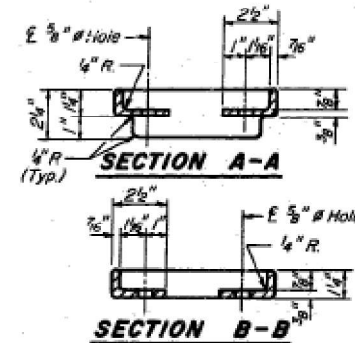
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	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 6/13/2024	DATE - 5/21/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0195
FOR INFORMATION ONLY

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

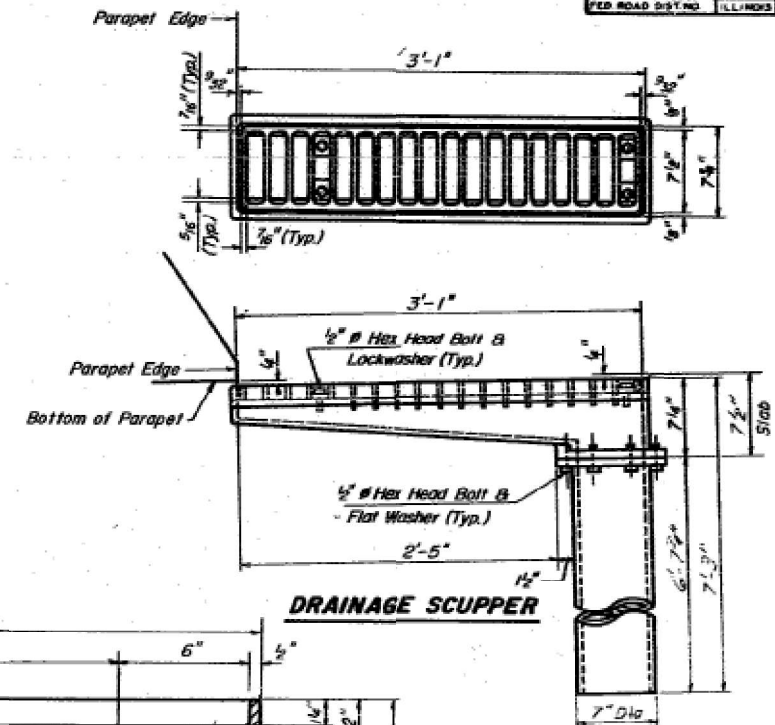
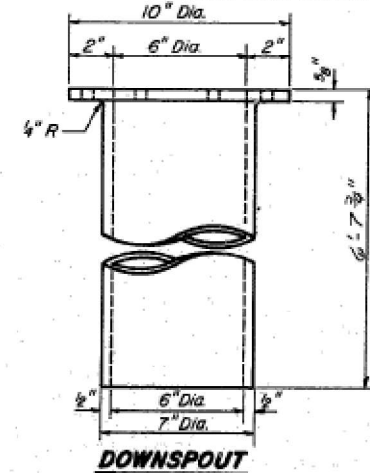
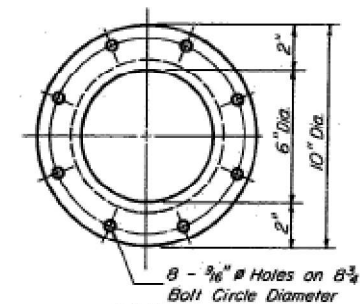
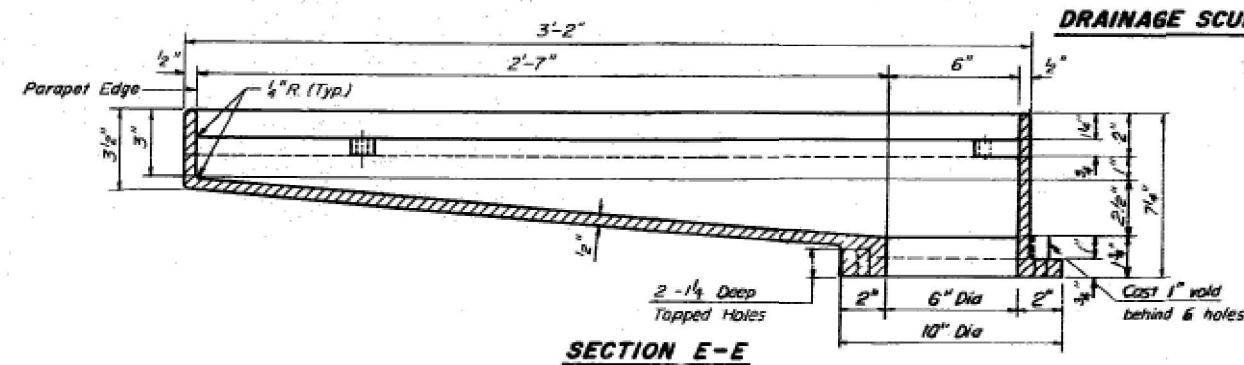
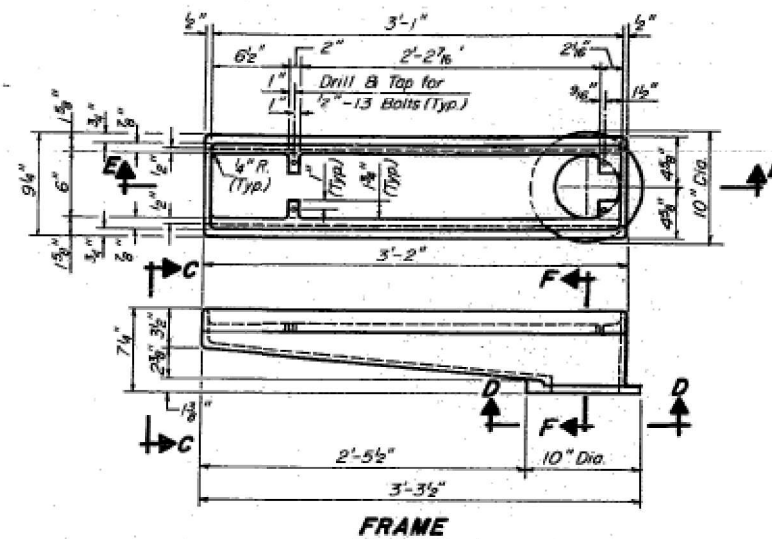
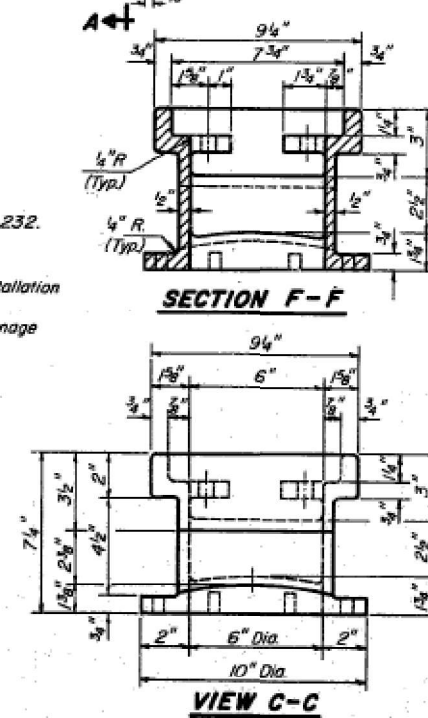
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4B-3)BP-2, (50-7B)BP-2	LASALLE	27	16
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				



Notes:

- All cast iron parts shall be gray iron conforming to the requirements of AASHTO: M-105, Class 30.
Bolts and washers shall conform to the requirements of A.S.T.M.: A-307.
All bolts and washers shall be galvanized in accordance with A.A.S.H.T.O.: M-232.
As an alternate bolts and washers may be stainless steel conforming to the requirements of A.S.T.M.: A-193, Type 304.
Cost of the Grate, Downspout, bolts and washers including complete installation of Scupper shall be paid for at the unit bid price for "DRAINAGE SCUPPERS".
The Contractor may use at his option steel drainage scuppers or cast iron drainage scuppers.

DESIGNED	G. Roufa
CHECKED	T. Ritzheimer
DRAWN	R. Prescher
CHECKED	C. Lizana

STRUCTURE NO. 050-0195
FOR INFORMATION ONLY

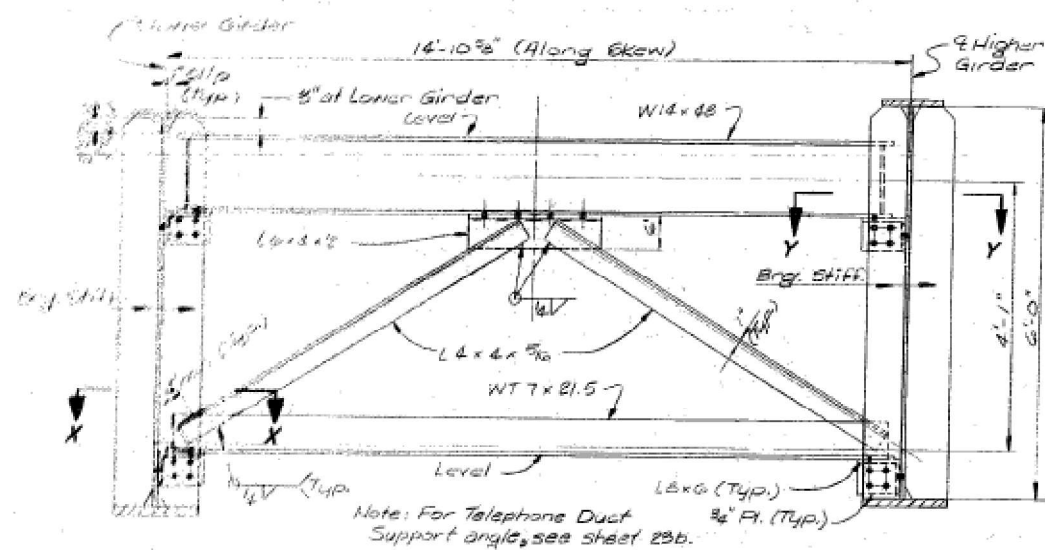
U.S. 6 OVER F.A. 412

ALTERNATE - CAST IRON DRAINAGE SCUPPER

SECTION 50-4HB-3 PROJECT EBF-412-4(6)
STA. 908 + 73.12 (F.A.-412) LASALLE CO.PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURISTATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATIONEXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0195
FOR INFORMATION ONLY

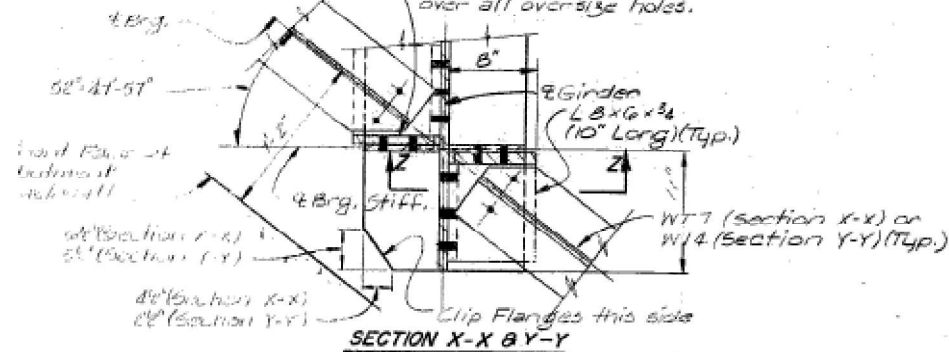
SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	17
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				

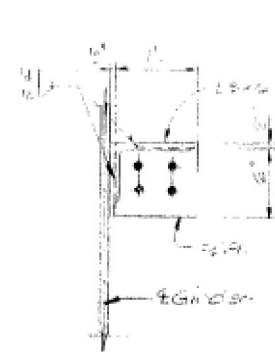


END CROSS FRAME CF 1

Note: Provide 1 1/2" holes for 3/8" Ø H.S. Bolts with hardened washers over all oversize holes.



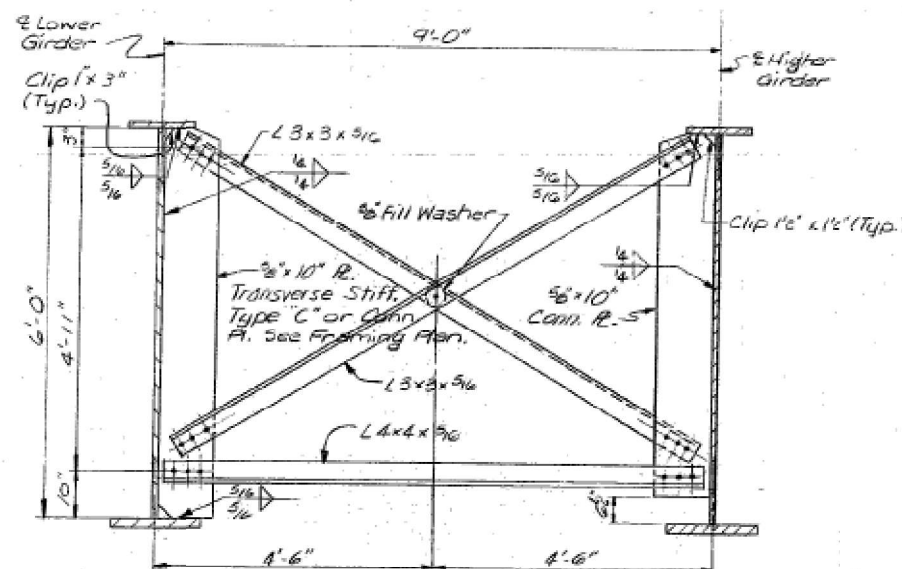
SECTION X-X & Y-Y



SECTION Z-Z

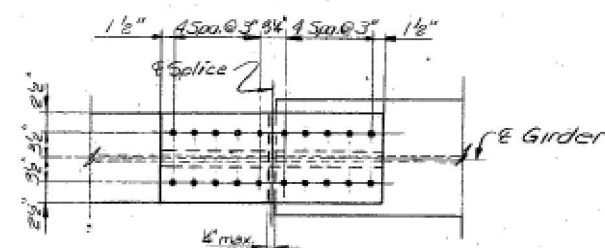
BEARING STIFFENER

* Weld length full length of stiffeners, (Typ.)
** Weld length width of stiffeners minus 1/2" each end, (Typ.)

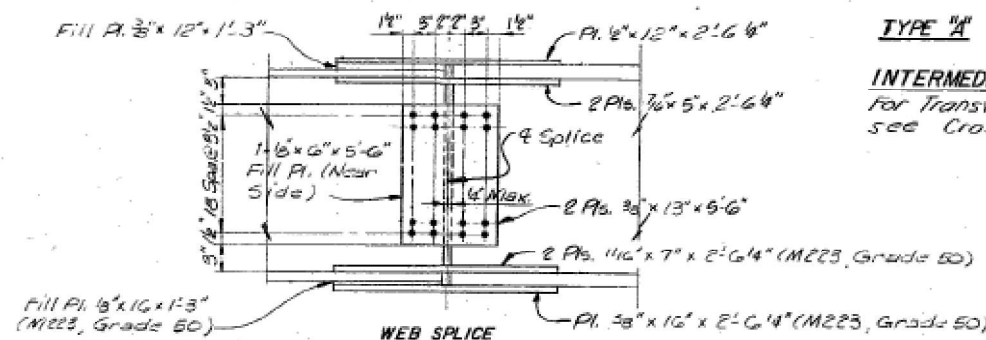


INTERMEDIATE CROSS FRAME CF 2

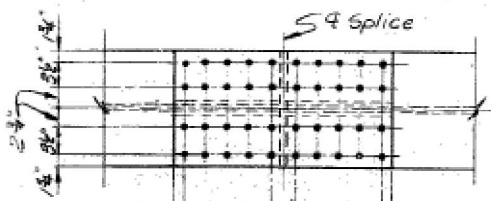
Note: Provide 1 1/2" holes for 3/8" Ø H.S. Bolts with hardened washers over all oversize holes.



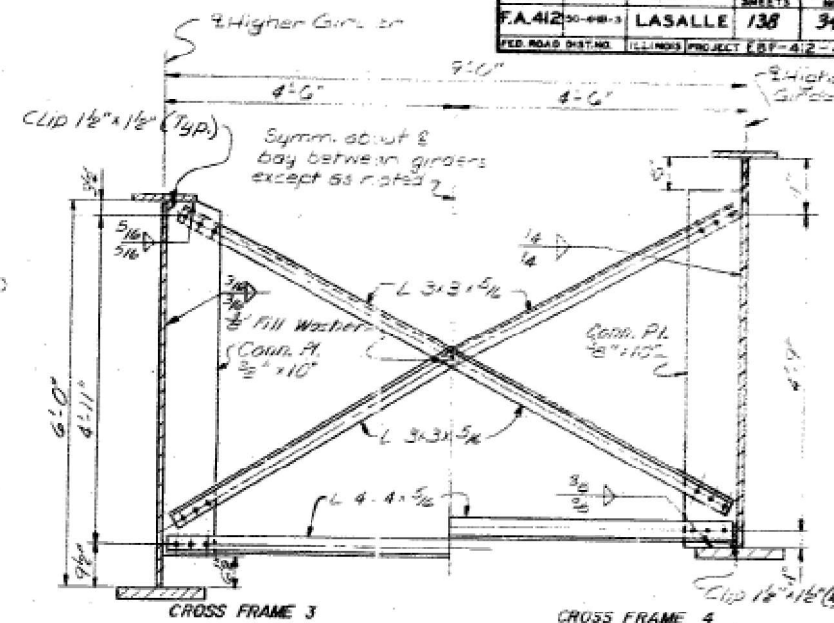
TOP FLANGE SPLICE



WEB SPLICE



BOTTOM FLANGE SPLICE
FIELD SPLICE DETAILS

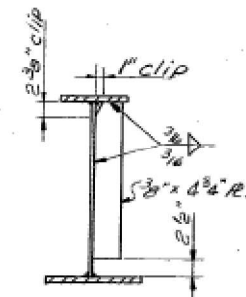


CROSS FRAME 3

CROSS FRAME 4

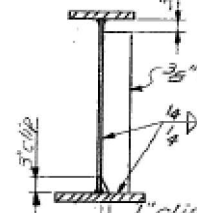
INTERMEDIATE CROSS FRAMES CF 3 AND CF 4

Note: Provide 1 1/2" holes for 3/8" Ø H.S. bolts with hardened washers over all oversize holes.

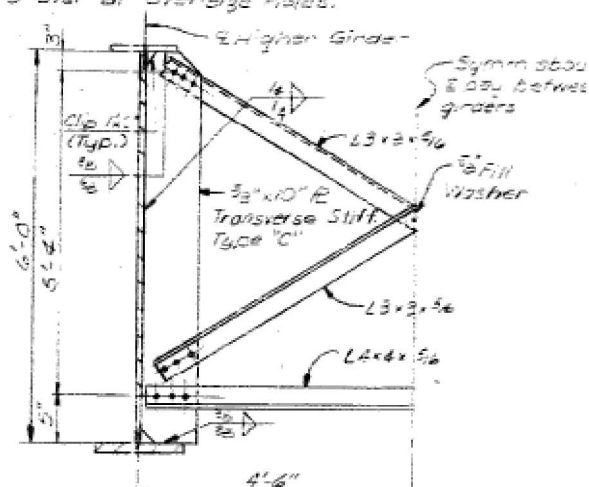


TYPE "A"

INTERMEDIATE TRANSVERSE STIFFENERS for Transverse Stiffeners type "C" see Cross Frames CF 2 and CF 5.



TYPE "B"



INTERMEDIATE CROSS FRAME CF 5

Note: Provide 1 1/2" holes for 3/8" Ø H.S. Bolts with hardened washers over all oversize holes.

STRUCTURE NO. 050-0195 FOR INFORMATION ONLY

U.S.6 OVER FA-412

STEEL DETAILS

SECTION 50-4HB-3 PROJECT EBF-412-4 (6)
STA. 908+73.12 (FA-412) LASALLE CO.

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

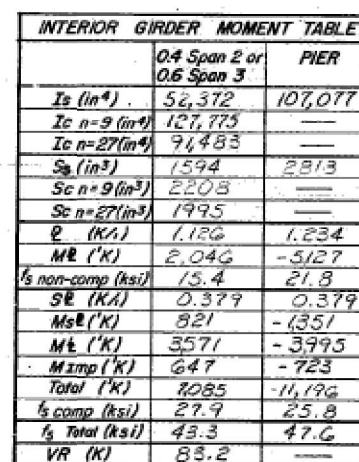
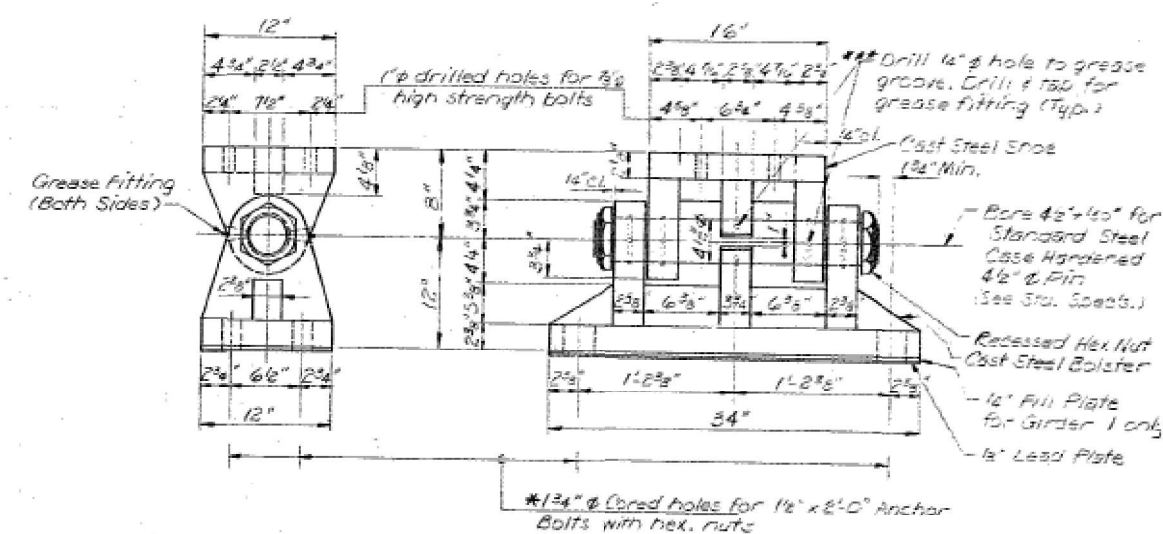
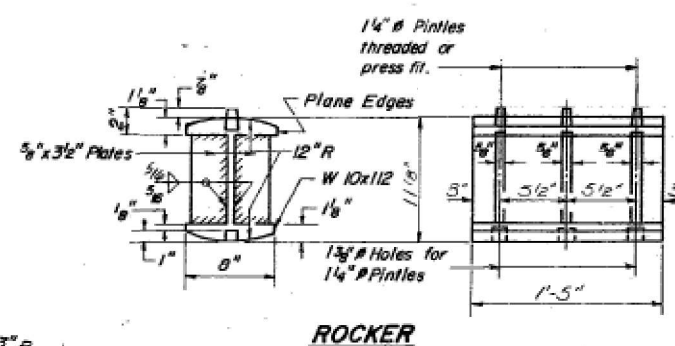
EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0195
FOR INFORMATION ONLY

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	19
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 6/13/2024	DATE - 5/21/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FIXED BEARING AT PIER

Notes: Structural steel weldments of equal sections and meeting AASHTO M222, Grade 50 may be substituted for the castings. Fillet or partial penetration weld shall be used for weldments. Minimum weld size shall be $\frac{1}{4}$ thickness of flange being welded, except maximum size of weld need not exceed $3\frac{1}{2}$ ".

Cast steel for all bars and plates shall conform to the requirements of AASHTO M-192, class 70.-

Pins shall conform to SAE S420 material and shall be heat treated and case hardened to a depth of 0.12 in. to 0.15 in. to a hardness of 53 HRC. Pins shall be polished to a smooth finish after case hardening.

Anchor bolts at fixed bearings may be built into masonry.

*See Sht. #15a for Anchor Bolt Installation.

	Abuts.	Pier
R_2 (K)	82	302
R_4 (K)	60	123
Imp. (K)	11	22
R Total (K)	153	447

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s Total.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s Total.
 VR is the maximum $\frac{1}{2} V + \text{Impact}$ shear range in span.
The load factor $(1.3) [1 + \frac{1}{2} (\frac{1}{2} + \text{Imp})]$ is used in computing moments and stresses.

GREASE GROOVE ON SADDLE
***Note: Grease bearing assembly with molybdenum grease before installation.

U.S. 6 OVER F.A. 412
BEARINGS - SPANS 2 AND 3

SECTION 50-4H6-3 PROJECT EBF-412-4(6)
STA. 908+73.12 (F.A. 412) LASALLE CO.

**EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0195
FOR INFORMATION ONLY**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	20
		CONTRACT NO. 66N05		
		ILLINOIS FED. AID PROJECT		

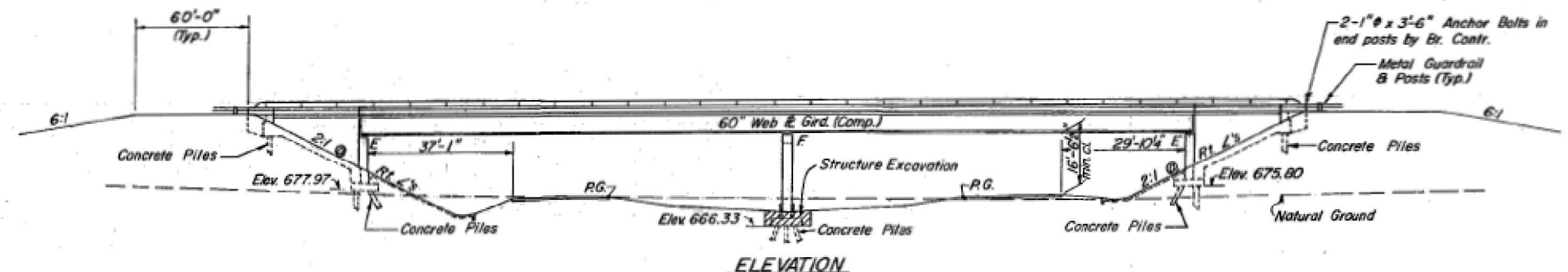
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	DRAWN - RW	REVISED - _____
	CHECKED - YP	REVISED - _____
PLOT DATE = 6/13/2024	DATE - 5/21/2024	REVISED - _____

MODEL: Default
FILE NAME: c:\pw work\pwidot\woodshankr\ld0823010\66N05 COVER.dgn

B.M. - R.R. Spike in Power Pole-33 Rt. Sta.
45+42 Elev. 681.82.

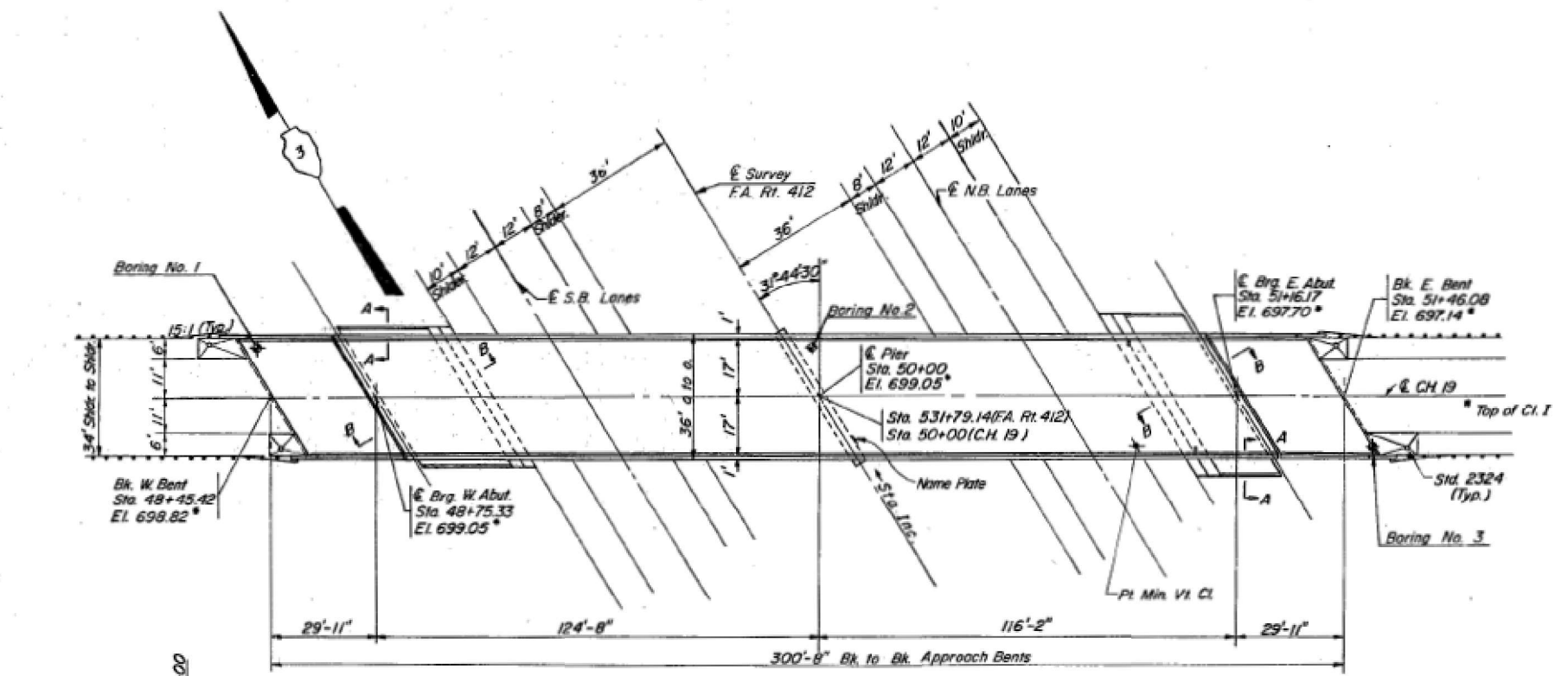
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. /
50-7	HB	LA SALLE	43	11	SHEETS 20
FED. ROAD DIST. NO. 7					



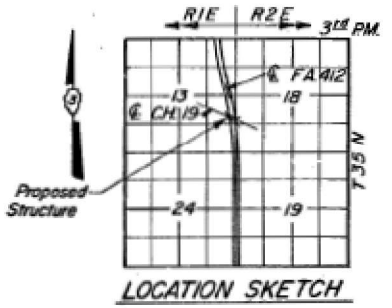
TOTAL BILL OF MATERIALS				
ITEM	UNIT	SUPER	SUB	TOTAL
Aluminum Railing	Lin. Ft.	620	—	620
Structure Excavation	Cu. Yd.	—	75	75
Class X Concrete	Cu. Yd.	339.3	312.9	652.2
Furnishing & Erecting Structural Steel*	Lump Sum	L.S.	—	L.S.
Name Plate	Ea.	—	1	1
Slope Wall 4"	Sq. Yd.	—	340	340
Protective Coat	Sq. Yd.	220	—	220
Stud Shear Connectors	Ea.	2040	—	2040
Reinforcement Bars	Lbs.	815.91	31328	112,859
2" Neoprene Expansion Joint	Lin. Ft.	81	—	81
Bituminous Concrete Surface Course-Mixture D Class I	Tons	90	—	90
Waterproofing Membrane System	Sq. Yds.	1080	—	1080
Furnishing and Driving Concrete Test Piles	Ea.	—	3	3
Furnishing Concrete Piles	Lin. Ft.	—	2848	2848
Driving Concrete Piles	Lin. Ft.	—	2848	2848
Furnishing and Erecting Precast/Prestressed Concrete I-Beams (36")	Lin. Ft.	161	—	161
Drainage Scuppers	Ea.	2	—	2

* Calculated Weight of Structural Steel 336,000 Lbs.



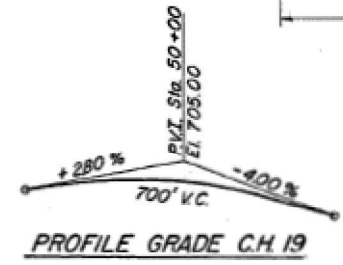
STRUCTURE NO. 050-0181
FOR INFORMATION ONLY

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Carl E. Hammer
Engineer of Bridges & Traffic Structures



Louis Paul Mord

GENERAL PLAN & ELEVATION
PROJECT EBF-412
C.H. 19 OVER F.A. RTE. 412
F.A. RTE. 412 SECTION 50-7HB
LA SALLE COUNTY
STA. 531+79.14



DESIGN STRESSES
 $f_c = 1200$ p.s.i. Deck Slab
 $f_c = 1400$ p.s.i. Parapet, Sub.
 $f_s = 20,000$ p.s.i. Reinf. & Struct. Steel
 $V_c = 75$ p.s.i. Frgs.
 $n = 10$
Allow 25 p.s.i. for future wearing surface.
Design Specifications: AASHTO 1773as applicable.

PRECAST PRESTRESSED UNITS
 $f_c = 5,000$ p.s.i.
 $f_{ci} = 4,000$ p.s.i.
 $f_s = 270,000$ p.s.i. ($\frac{1}{16}$ " Str.)
 $f_{st} = 188,700$ p.s.i. ($\frac{1}{16}$ " Str.)

DESIGNED	D.F.S.
CHECKED	B.R.T.
DRAWN	JC / 3-19-75
CHECKED	R.F.C.

USER NAME	= ronald.woodshank	DESIGNED	- RW	REVISED	-
		DRAWN	- RW	REVISED	-
		CHECKED	- YP	REVISED	-
PLOT DATE	= 6/13/2024	DATE	- 5/21/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

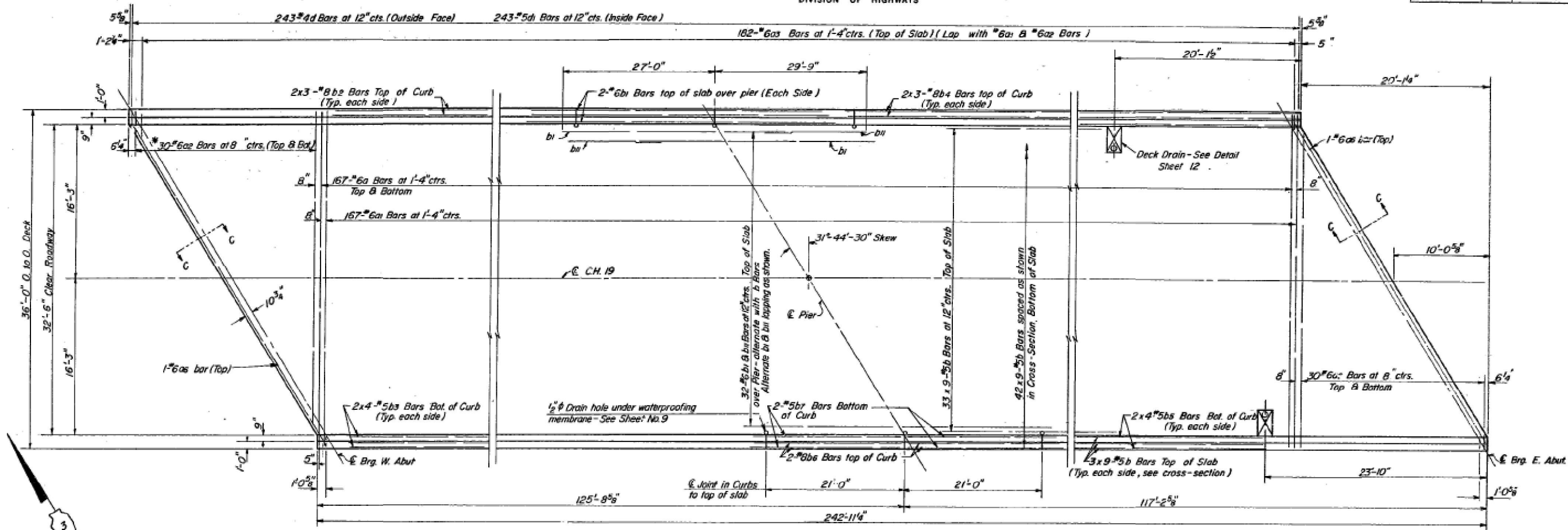
EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0181
FOR INFORMATION ONLY

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

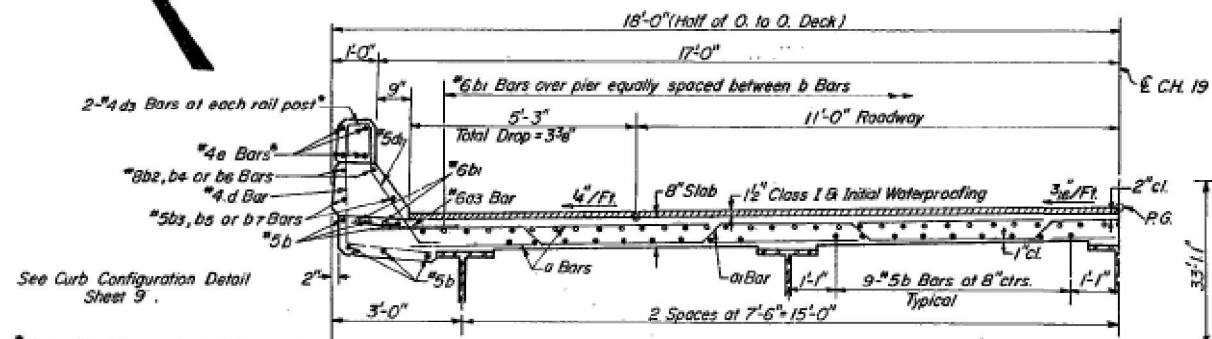
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	21
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9
S.B.L. F.A. 412	50-7 HB	LA SALLE	43	18	SHEETS 20
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



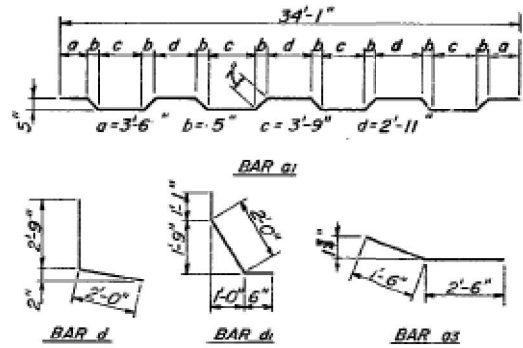
PLAN



PARTIAL CROSS-SECTION

FIELD CUTTING DIAGRAM

* Order a2 bars full length. Cut bars as shown in diagram and use one set at top and one set at bottom.

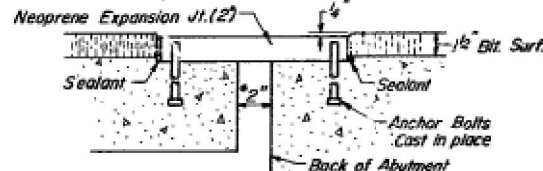


BAR	NO.	SIZE	LENGTH	SHAPE
a	334	#6	34'-0"	
a1	167	#6	35'-5"	
a2	60	#6	33'-11"	
a3	344	#6	4'-0"	
a6	2	#6	40'-0"	
b	729	#5	28'-2"	
b1	36	#6	40'-0"	
b2	12	#8	36'-0"	
b3	16	#5	27'-0"	
b4	12	#8	33'-3"	
b5	16	#5	24'-11"	
b6	8	#8	21'-2"	
b7	8	#5	21'-2"	
bu	36	#6	19'-3"	
d	486	#4	4'-9"	
di	486	#5	3'-7"	
Reinforcement Bars				lbs. 62,997
Class X Concrete				Cu. Yds. 281.0
2" Neoprene Expan. Jt.				Lin. Ft. dl

Parapet reinforcement & Class X Concrete are billed on Sheet No. 10

SLAB DETAILS

F.A. RTE. 412 SEC. 50-7 HB
LA SALLE COUNTY
STA. 531+79.14 (F.A. RTE. 412)



2" NEOPRENE EXPANSION JOINT DETAILS
(See Joint Detail Sheet 11)

NOTE:
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with three lengths per line.
Minimum bar lap=24 diameters.

STRUCTURE NO. 050-0181
FOR INFORMATION ONLY

DESIGNED	RFC
CHECKED	RWW
DRAWN	LC 4-9-75
CHECKED	A.D.M. 4/75

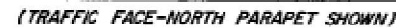
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		DRAWN	- RW	REVISED	-
		CHECKED	- YP	REVISED	-
PLOT DATE	= 6/13/2024	DATE	= 5/21/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0181
FOR INFORMATION ONLY

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	22
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				

ELEVATION

Limit of Payment

8'-3"

4'-3 1/4"

Point of Curvature

6" 7"

2" 7" 6"

1'-3"

1/2" x 1/2" x 5' Bar

R 1/2" x 6" x 15" with
1/8" Fabric Pad-Caulk perimeter

2-1/4" x 6" Welded studs drilled &
tapped for 3/4" x 1/2" hex hd
stnl stl machine bolts with flat
stnl stl washers.

NOTE: The end rail post shall be set
back as required for the terminal rail
section.

10 R

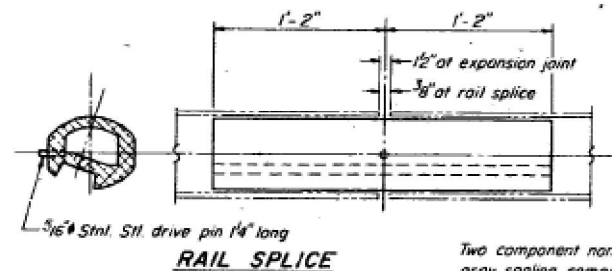
12 3/4"

1'-0" Holes

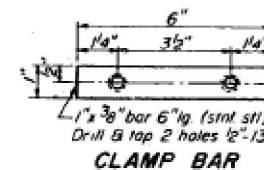
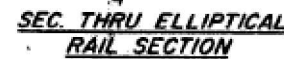
1/2" Drain Notch

RAIL TERMINAL SECTION

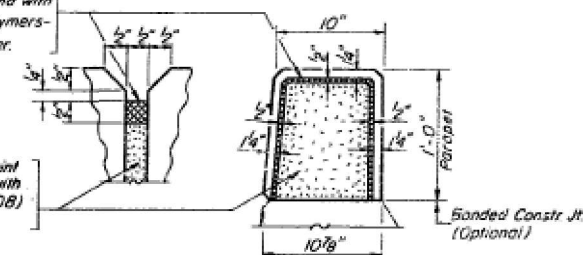
RAIL TERMINAL SECTION



RAIL SPLICE



CLAMP BAR



PARAPET JOINT DETAIL

PARAPETS & RAILS				
BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a3	140	#4	2'-0"	□
e	32	#4	12'-7"	—
e1	48	#4	17'-0"	—
e2	16	#4	20'-8"	—
e3	24	#4	18'-5"	—
e4	16	#4	14'-1"	—
e5	8	#4	17'-6"	—
Reinforcement Bars			Lbs	1,729
Class X Concrete			Cu Yds	19.0
Aluminum Fencing			L in Ft	620

F.A. RTE. 412 SEC. 50-7HB
LA SALLE COUNTY
STA. 531+79.14 (F.A. RTE. 412)

DESIGNED	RFC
CHECKED	RWW
DRAWN	JC 3-25-75
CHECKED	RFC

7-17 4-15-73

Stainless steel machine bolts or cap screws shall be in accordance with Article 710.37 (a) of the standard specifications, except Grade B8 or B8M may be furnished.

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

Provide 1-8" and 2-1/2" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min yield 35 ksi, min tensile 38 ksi, and

SECTION A-A

The diagram shows a cross-section of the bracket with the following dimensions and features:

- Top flange thickness: $\frac{3}{8}$ "
- Web thickness: $\frac{3}{8}$ "
- Bottom flange thickness: $\frac{3}{8}$ "
- Overall height: $2\frac{1}{2}$ "
- Overall width: $2\frac{1}{2}$ "
- Internal fillet radius: R_6
- Material specification: $E \frac{S}{A} Hols$

Top View Dimensions:

- Overall Width: $6\frac{3}{4}"$
- Overall Height: $7"$
- Central Cutout Width: $2\frac{1}{8}"$
- Central Cutout Height: $2\frac{1}{8}"$
- Distance from Left Edge to Cutout: $1\frac{5}{8}"$
- Distance from Right Edge to Cutout: $1\frac{5}{8}"$
- Distance from Top Edge to Cutout: $1\frac{3}{8}"$
- Distance from Bottom Edge to Cutout: $1\frac{3}{8}"$

Side View Dimensions:

- Gate Height: $6\frac{1}{4}"$
- Gate Width: $3\frac{1}{8}"$
- Handle Height: $3\frac{1}{8}"$
- Latch Height: $3\frac{1}{8}"$

CLEANOUT GATE

Notes:

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 or A-501 Structural Steel Tubing.

All other shapes, plates and bars shall conform to the requirements of A.A.S.H.T.O.: M 183.

Bolts, studs, washers and nuts shall conform to the requirements of ASTM:A-307

The Main Grate, Cleanout Grate, Frame and Downspout shall be galvanized after shop fabrication in accordance with A.S.S.H.T.O. Mill & ASTM: A-385.

All bolts, washers and nuts shall be galvanized in accordance with AASHTO M232.

The Waterproofing Membrane System shall be installed such that the membrane covers the

Cost of the Main Grate, Cleanout Grate, Frame, Downspout, Bolts, Washers and Nuts including complete installation of Scupper shall be paid for at the unit bid price for "Drainage Scuppers."

DESIGNED	RFC
CHECKED	RWW
DRAWN	P. Barnett
CHECKED	RFC

Diagram of a frame structure with dimensions and member labels:

- Members:
 - $L 2\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ (Top horizontal member)
 - $L 2\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{16}$ (Right vertical member)
 - $R \frac{3}{16} \times 6$ (Diagonal member)
- Dimensions:
 - Height: 5' 0"
 - Width: 2' 4"
 - Base width: 3' 2 $\frac{3}{4}$ "
 - Offset: 10 $\frac{1}{2}$ "
- Supports:
 - Fixed support at the bottom left corner.
 - Roller support at the bottom right corner.
- Labels:
 - D (Disturbance) at the top left corner.
 - G (Gravity) at the top right corner.
 - E (Excitation) at the bottom right corner.
 - G (Gravity) at the bottom right corner.
 - $C8 \times 11.5$ (Channel section) at the top right corner.

Figure 10 is a plan view of a square column section. The overall dimensions are 11" by 11". The section is divided into four quadrants by a central square opening. The dimensions of the opening and the surrounding concrete are as follows:

- Overall width: 11"
- Overall height: 11"
- Opening width: 6"
- Opening height: 6"
- Distance from opening edge to outer edge (all sides): 2 1/2"
- Distance from opening edge to center of reinforcement (all sides): 1 1/2"
- Distance between reinforcement bars (all sides): 3"
- Reinforcement bars: 8 bars in total, 2 in each quadrant.
- Detail "I" is indicated by a circle around one of the reinforcement bars.

DETAIL "I"

2 1/2"

1/8"

1/4"

3/16"

L 2 1/2" x 2 1/2" x 5/16"

SECTION H-H

[illegible]

Elevation view of a square column section. The overall dimensions are 10 3/4" wide by 10 1/2" high. The section is reinforced with 8 #5 bars (4 on each face). The reinforcement is arranged in two layers, with the top layer bars spaced 2 1/2" apart and the bottom layer bars spaced 2 1/2" apart. The section is also reinforced with 2 #4 bars (1 on each side) in the middle. The section is labeled "VIEW E-E".

<u>BILL OF MATERIAL</u>		
ITEM	UNIT	QUANTITY
Drainage Scooper	Each	2

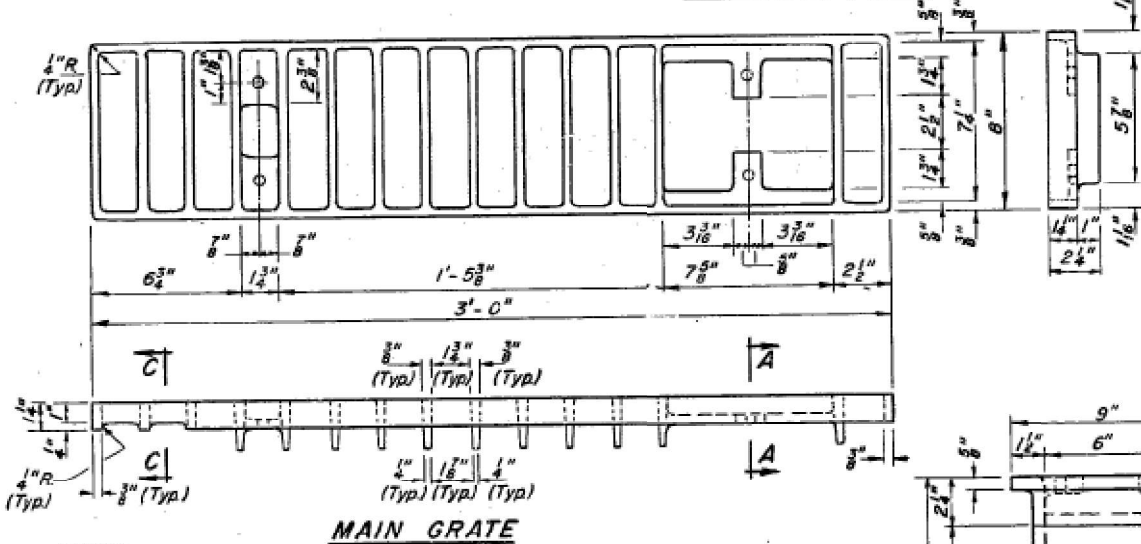
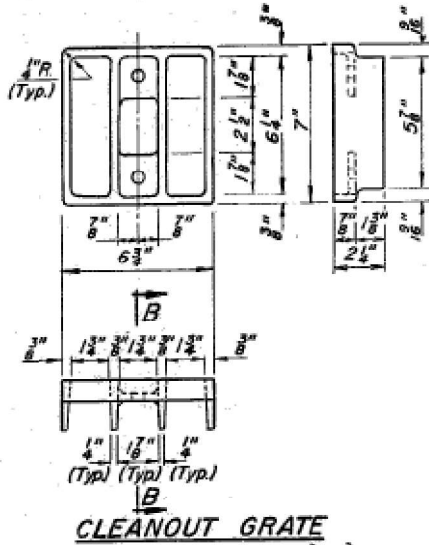
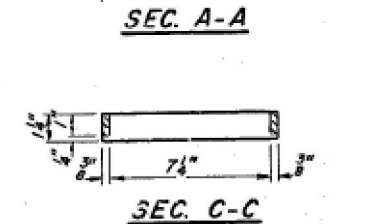
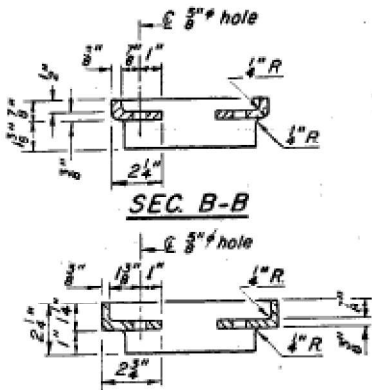
STRUCTURE NO. 050-0181
FOR INFORMATION ONLY

DRAIN DETAILS
F.A. RTE. 412 SEC. 50-7HB
LA SALLE COUNTY
STA. 531 + 79.14 (F.A. RTE. 412)

[illegible]

Diagram of a downspout showing dimensions and material specifications:

- Material: Tube $6'' \times 6'' \times \frac{3}{16}''$ or $\frac{3}{16}''$ welded plates
- Height: $5' - 1\frac{1}{2}''$ (overall) and $5' - 4''$ (to top of downspout)
- Width: $6''$
- Label: **DOWNSPOUT**



NOTES:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 30.

Bolts, washers and nuts shall conform to the requirements of ASTM A-307.

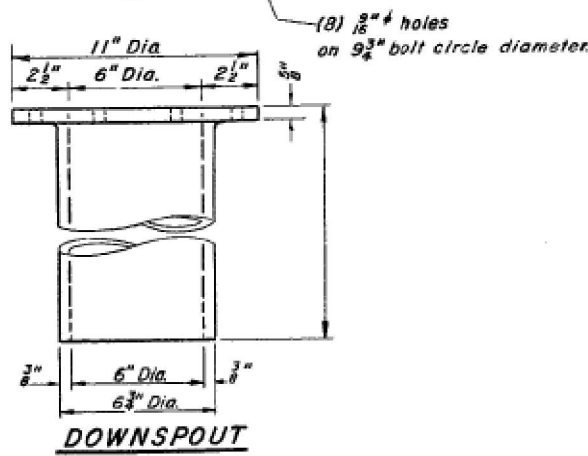
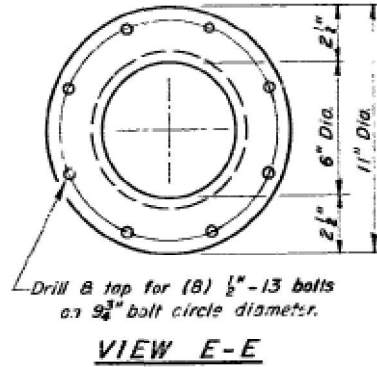
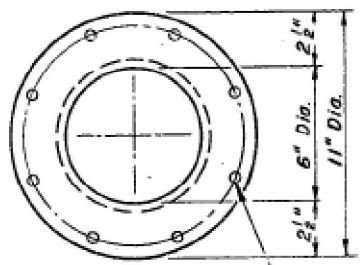
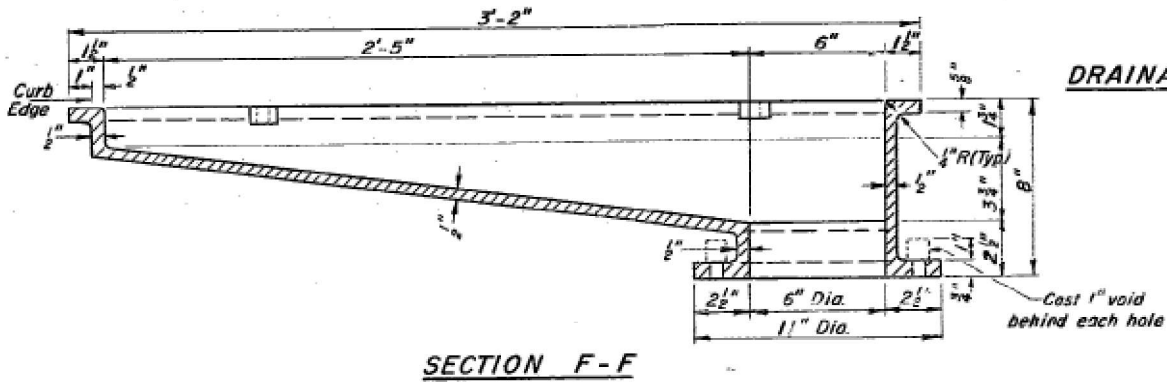
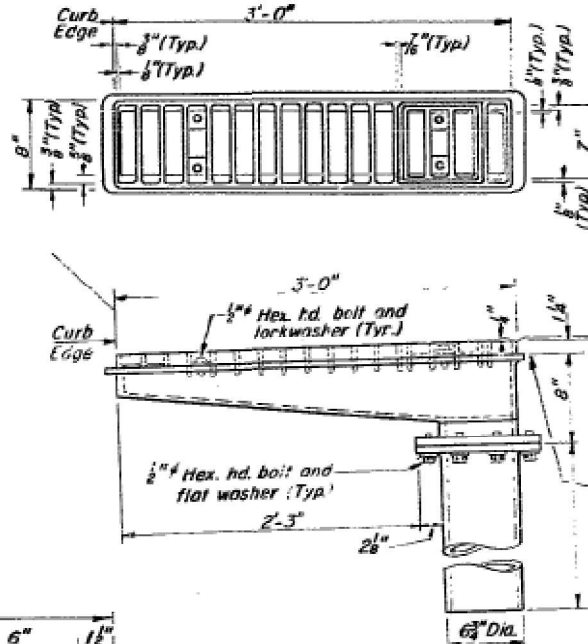
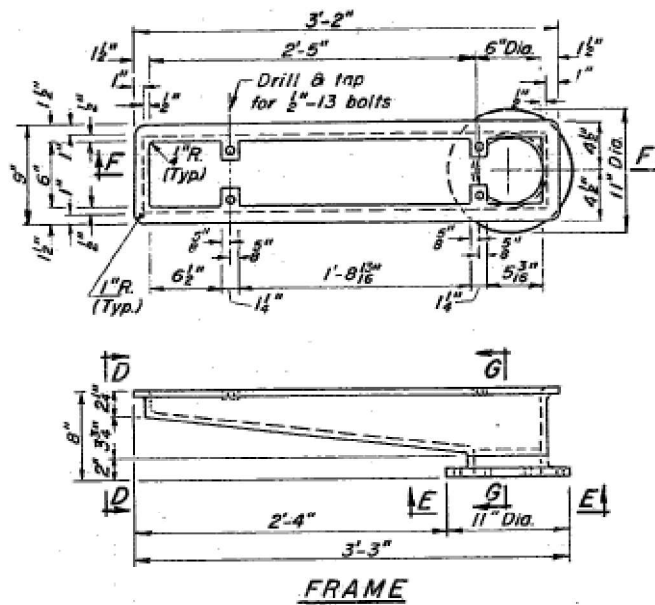
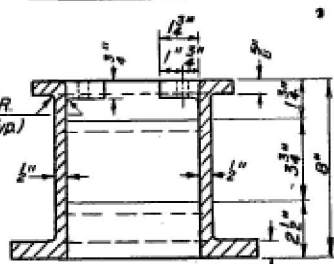
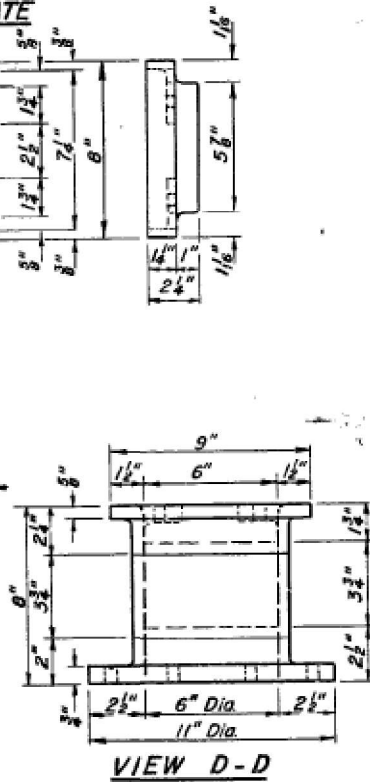
All bolts, washers and nuts shall be galvanized in accordance with AASHTO M 232.

The waterproofing membrane system shall be installed such that the membrane covers the frame flanges and extends down into the frame with the grates placed on top of the membrane.

Cost of the Main Grate, Cleanout Grate, Frame, Downspout, Bolts, Washers and Nuts including complete installation of Scupper shall be paid for at the unit bid price for "DRAINAGE SCUPPERS."

The Contractor may use at his option steel frames and steel grates or cast frames and cast grates, but will not be allowed to use steel grates with cast frames nor cast grates with steel frames.

DESIGNED	19
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	APPROVED



STRUCTURE NO. 050-0181
FOR INFORMATION ONLY

(Sheet 2 of 2)
ALTERNATE - CAST IRON
DRAINAGE SCUPPER

MODEL: Default
FILE NAME: c:\pwwork\woodshank\0502201\050N05 COVER.dgn

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 6/13/2024	DATE - 5/21/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

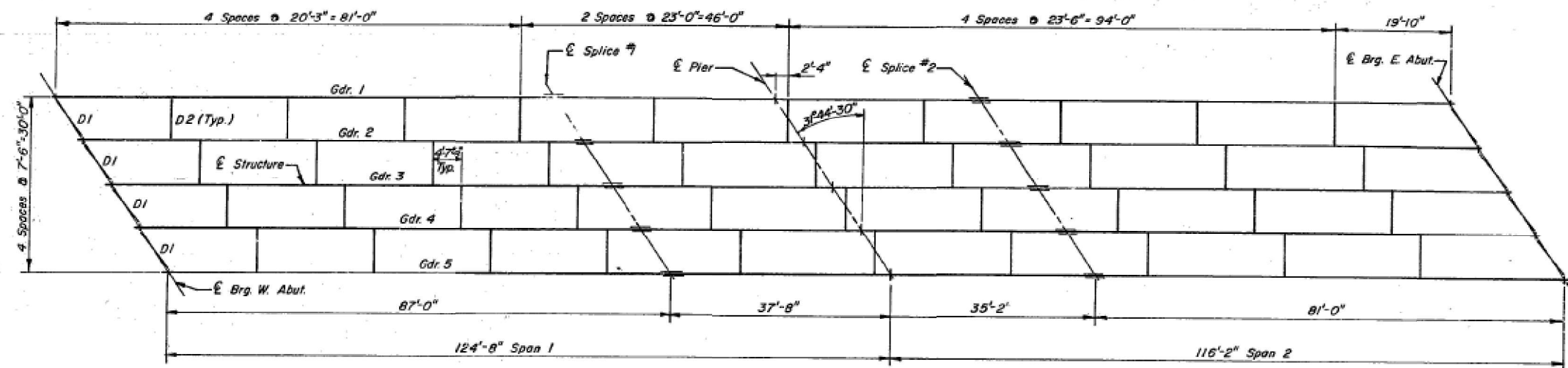
EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0181
FOR INFORMATION ONLY

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

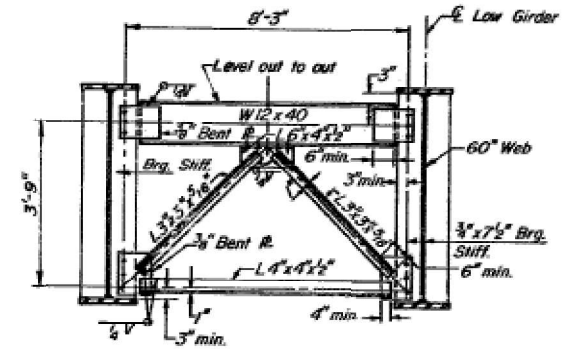
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	25
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO.	13
SHEETS	20
PROJECT NO.	50-7 HB
SECTION	LA SALLE
STATION	43.23
DATE	6/13/2024



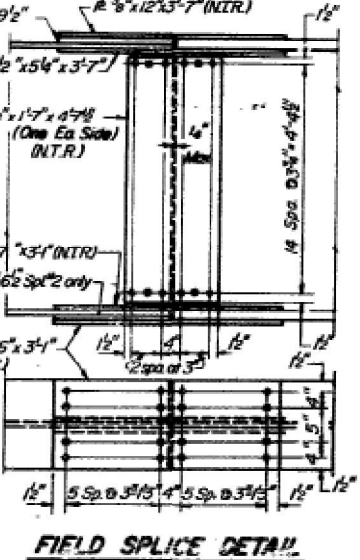
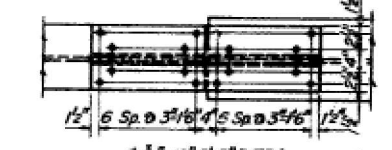
FRAMING PLAN



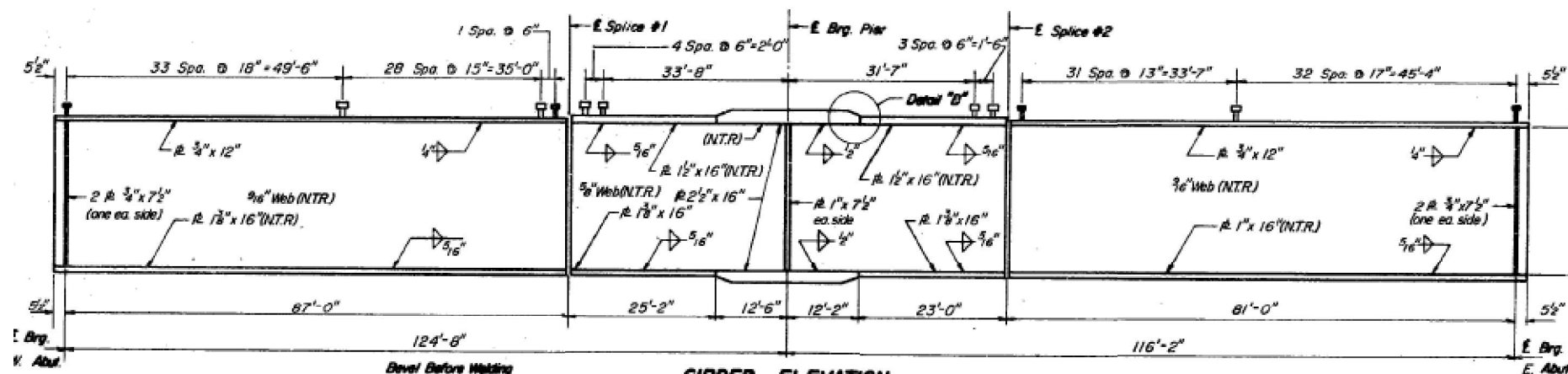
NOTES:
Detail 1/4" @ holes in angles for 3/4" @ bolts.
Hardened washers shall be required over holes in angles.

CROSS FRAME D1
(B Required)

NOTE: Use 3/8" @ H.S. Bolts in Splice



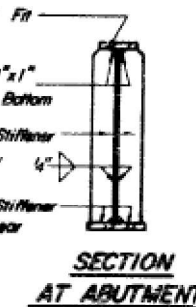
FIELD SPLICE DETAIL



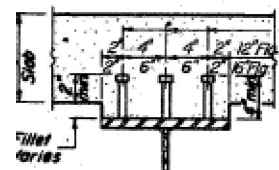
GIRDER ELEVATION



SECTION AT PIER



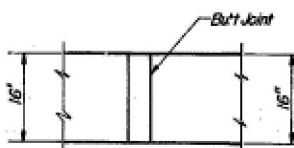
SECTION AT ABUTMENT



SECTION A-A

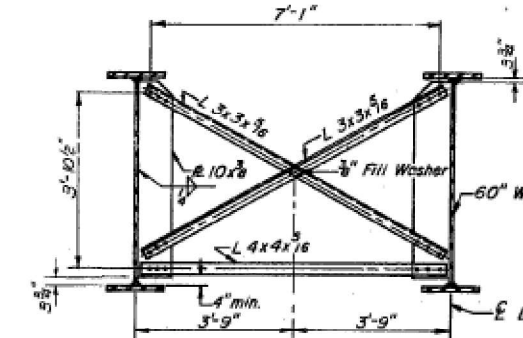
3/4" Granular or solid flux filled headed studs automatically welded to flange. (No. Req'd = 204Q)

DETAIL "B"



PLAN VIEW
(Detail B)

NOTE: N.T.R. is Notch Toughness Requirement.



CROSS FRAME D2
(40 Required)

NOTES:
Detail 1/4" @ holes in angles for 3/4" @ bolts.
Hardened washers shall be required over holes in angles.

STRUCTURE NO. 050-0181
FOR INFORMATION ONLY

FRAMING DETAILS
FA. RTE. 412 SEC. 50-7 HB
LA SALLE COUNTY
STA. 531 + 79.14 (FA. RTE. 412)

MODEL: Default
FILE NAME: C:\pwworkspace\woodshank\032201\050-0181 COVER.dgn

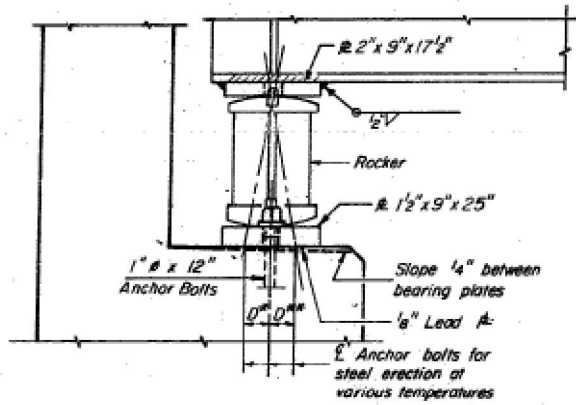
USER NAME	= ronald.woodshank
DESIGNED	- RW
DRAWN	- RW
CHECKED	- YP
DATE	- 5/21/2024

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

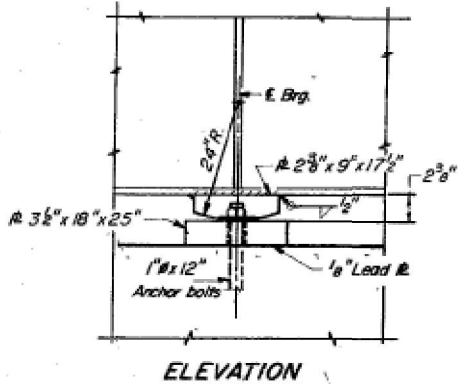
EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 050-0181
FOR INFORMATION ONLY

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

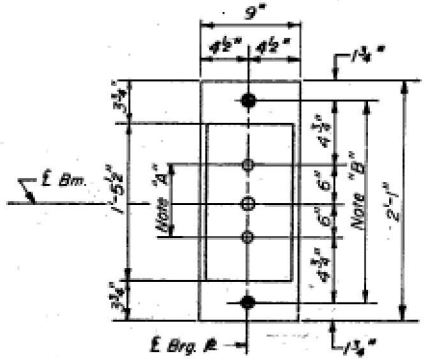
FA. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	27	26
CONTRACT NO. 66N05				
ILLINOIS FED. AID PROJECT				



ELEVATION



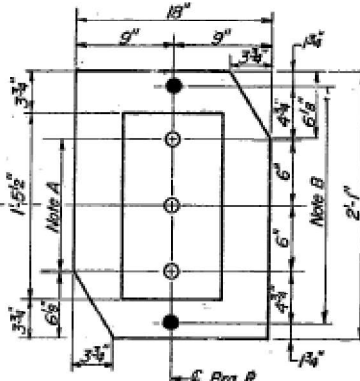
ELEVATION



PLAN AT ABUTMENTS

Note "A"
1 1/4" # Holes - 1" deep in top fl. for 1 1/4" # Pintles Thread or press fit pintles in bottom fl.

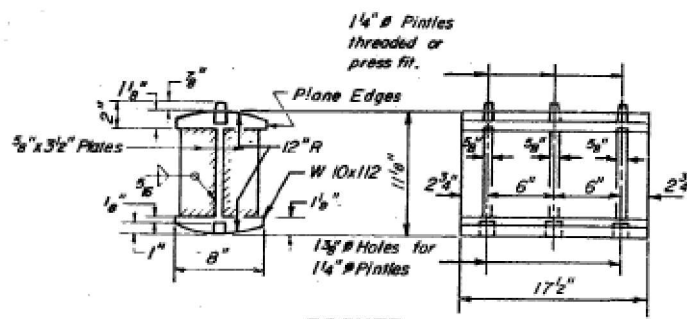
Note "B"
1 1/2" # Holes for 1" # Anchor Bolts - 2 1/2" x 3/4" # Washers under nut.



PLAN AT PIER

NOTES FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

- a.) D* (Side of brg. away from fixed brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50° F.
D** (Side of brg. toward fixed brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.
- b.) After beams have been erected and dimensions D* & D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



ROCKER



PINTLE

INTERIOR GIRDER MOMENT TABLE			
	0.4 Sp. 1	Pier	0.6 Sp. 2
I _s (in ⁴)	36658	89417	32530
I _c (in ⁴)	96336		82509
S _s (in ³)	1455	2751	1190
S _c (in ³)	2044		1687
E (K/ft)	1040	1672	1020
M _R (K)	309.9	3169.1	723.8
f _s (ksi)	8.32	13.82	7.30
s _E (K/ft)	0.45		0.45
M _S (K)	548.9		425.6
M _L (K)	1087.2	10395	9967
M _{imp} (K)	217.8	211.8	2065
Total (K)	1853.9	1251.3	1628.9
f _s (ksi)	10.88	5.46	11.59
f _s Total (ksi)	19.20	19.28	18.89
VR (K)	59.1		59.6

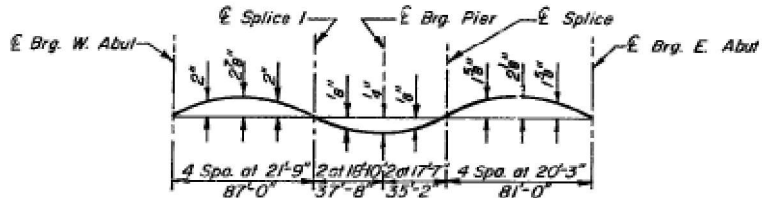
INTERIOR GIRDER REACTION TABLE			
	W. Abut.	Pier	E. Abut.
R _D (K)	69.7	247.8	60.1
R _L (K)	49.1	83.0	50.5
Imp. (K)	9.8	16.9	10.5
R Total (K)	128.6	347.7	121.1

I_s and S_s are the moment of inertia and section modulus of the steel section.
I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s.
VR is the maximum $\frac{1}{2}$ + Impact shear range in span.

TOP OF WEB ELEVATIONS*

	Gdr. #1	Gdr. #2	Gdr. #3	Gdr. #4	Gdr. #5
W. Abut.	697.81	697.98	698.12	698.03	697.92
Field Splice	698.02	698.15	698.26	698.13	697.98
Pier	697.78	697.90	697.99	697.84	697.67
Field Splice	697.60	697.70	697.77	697.61	697.43
E. Abut.	696.68	696.74	696.78	696.58	696.36

* For Fabrication Only



CAMBER DIAGRAM

Camber Diagram Includes Dead Load Deflection for the Steel, Concrete, and a Component for the Vertical Curve.

STRUCTURE NO. 050-0181 FOR INFORMATION ONLY

BEARING DETAILS

EA. RTE. 412 SEC. 50-7HB
LA SALLE COUNTY
STA. 531 + 79.14 (EA. RTE. 412)

DESIGNED	RFC
CHECKED	RWW
DRAWN	SCR
CHECKED	RFC

I-2-G 3-29-71