

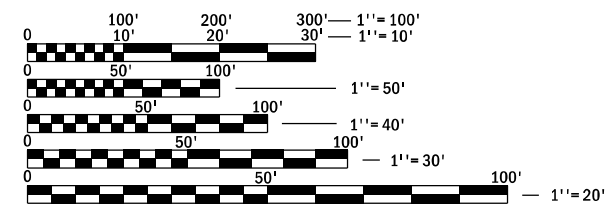
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	1
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351)		ILLINOIS	CONTRACT NO. 66M20	

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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' (4.5 m) AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) 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
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701426-09 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER



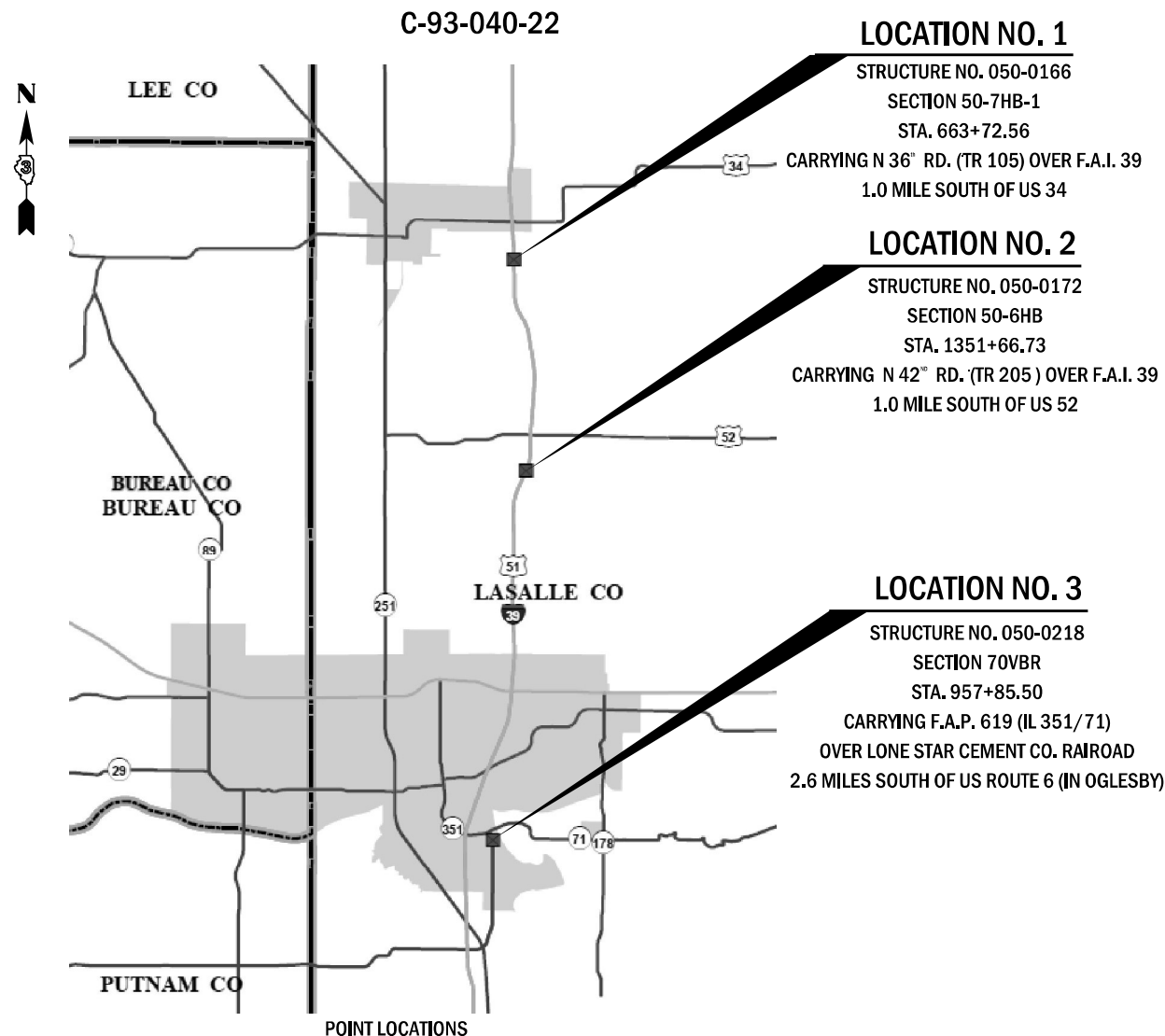
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

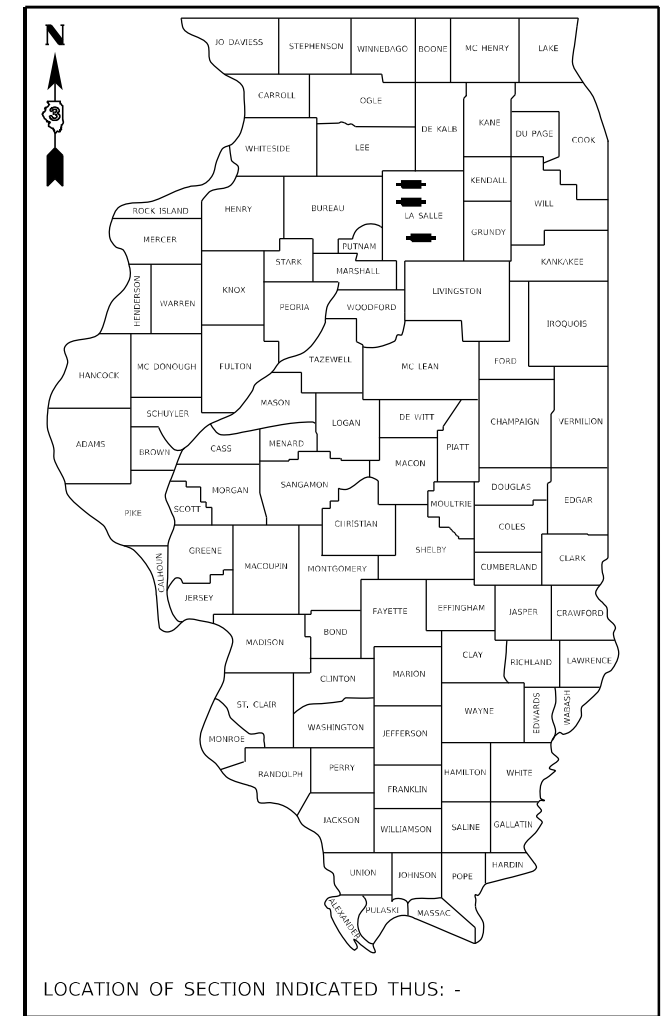
PROJECT ENGINEER: YOGESH PATEL P.E.
UNIT CHIEF" RON WOODSHANK
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66M20

PROPOSED HIGHWAY PLANS

ROUTES: F.A.I. 39 (I-39) & F.A.P. 619 (IL 351)
SECTIONS (50-6HB, 50-7HB-1, 70VBR)BP
PROJECT NHPP-STP-M6C0(122)
BRIDGE PAINTING
LASALLE COUNTY



D-93-019-22



LOCATION OF SECTION INDICATED THUS: -

FUNCTIONAL CLASSIFICATION

RURAL INTERSTATE	URBAN MINOR ARTERIAL
F.A.I. ROUTE 39 (I-39)	F.A.P. ROUTE 619 (IL 351/71)
2019 ADT = 20100	2019 ADT = 3800
P.V. 53.0 % S.U. 10.2 % M.U. 36.8 %	P.V. 94.8 % S.U. 3.4 % M.U. 1.8 %

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 13, 20 21

Tom Howard
REGIONAL ENGINEER

February 4, 20 22
Stephen M. Frail
ENGINEER OF DESIGN AND ENVIRONMENT

February 4, 20 22
Stephen M. Frail
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

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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".

"CONTAINMENT AND DISPOSAL OF NON-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.

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:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

DATE: _____

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

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	DRAWN - RW	REVISED -
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PLOT DATE = 12/6/2021	DATE - 8/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	2
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351)				CONTRACT NO. 66M20
ILLINOIS FED. AID PROJECT				

STRUCTURE NOTES

STRUCTURE NO. 050-0166 IS DESIGNATED AS "LOCATION 1".

EXISTING STRUCTURAL STEEL COATING ON STRUCTURE NO. 050-0166 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 BOX BEAMS AND STEEL COMPONENTS.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL BOX BEAMS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE APPLICABLE SPECIAL PROVISIONS AND AS SPECIFIED BELOW.

CLEANING.

EXTERIOR: ALL EXISTING STRUCTURAL STEEL INCLUDING THE THE ENTIRE SURFACE ARE OF THE STEEL BOX BEAMS, STEEL BEARINGS/PLATES, STEEL STIFFENERS, DRAINS. STEEL HAND RAILS (WHEN PRESENT) AND STEEL ANGLE BRACKETS.

INTERIOR: ALL EXISTING STRUCTURAL STEEL WITHIN 24 FEET AS MEASURED FROM THE BEAM END INCLUDING THE ENTIRE SURFACE AREA OF THE STEEL BOX BEAMS, STEEL STIFFENERS, DIAPHRAGMS, CROSS AND LATERAL FRAMING AND STEEL ANGLE BRACKETS.

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.

ADDITIONAL REQUIREMENTS.

THE ENDS OF THE STEEL BOX BEAMS ARE MOISTURED SEALED. IN THE EVENT THAT THE SEALS ARE DETERIORATED, DAMAGED OR REMOVED DUE TO THE CONTRACTORS CLEANING AND PAINTING OPERATIONS, THE SEALS SHALL BE REPLACED ACCORDING TO ARTICLE 1050.02 OF THE STANDARD SPECIFICATIONS.

THE ENGINEER SHALL INSPECT EXISTING RODENT SCREENS FOR THEIR CONTINUED USE. IF THE ENGINEER DETERMINES THAT THE RODENT SCREENS ARE NO LONGER EFFECTIVE, THE CONTRACTOR SHALL REPLACE THE SCREENS AS DIRECTED BY THE ENGINEER.

COST OF THESE ADDITIONAL CONSTRUCTION REQUIREMENTS, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".

STRUCTURE NOTES CONT'D

STRUCTURE NO. 050-0172 IS DESIGNATED AS "LOCATION 2".

EXISTING STRUCTURAL STEEL COATING ON STRUCTURE NO. 050-0172 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 AND STEEL COMPONENTS.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL I-BEAMS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE APPLICABLE SPECIAL PROVISIONS AND AS SPECIFIED BELOW.

CLEANING.

ALL EXISTING STRUCTURAL STEEL, INCLUDING ALL SURFACES OF THE STEEL I-BEAMS, DIAPHRAGMS, STEEL COMPONENTS OF BEARING ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL WEB STIFFENERS, DRAINS, STEEL ANGLE BRACKETS AND STEEL HANDRAILS (WHEN PRESENT).

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

PAINTING.

THE FINAL FINISH COAT FOR THE "EXTERIOR" FACE OF THE FASCIA BEAMS, THE BOTTOM FLANGE OF THE FASCIA BEAMS AND THE EXTERIOR BEARINGS SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

THE FINAL FINISH COAT FOR THE INTERIOR SURFACE OF THE FASCIA I-BEAMS, ALL EXPOSED SURFACES OF THE INTERIOR I-BEAMS, STEEL STEEL COMPONENTS OF ALL INTERIOR BEARING ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL WEB STIFFENERS, DRAINS. STEEL BRACKETS. SHALL BE "GRAY, MUNSELL NO. 5B 7/1

STRUCTURE NOTES CONT'D

STRUCTURE NO. 050-0218 IS DESIGNATED AS "LOCATION 3".

EXISTING STRUCTURAL STEEL COATING ON STRUCTURE NO. 050-0218 ARE "NON-LEAD" COATINGS.

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

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

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL I-BEAMS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE APPLICABLE SPECIAL PROVISIONS AND AS SPECIFIED BELOW.

CLEANING.

ALL EXISTING STRUCTURAL STEEL, INCLUDING ALL SURFACES OF THE STEEL I-BEAMS, DIAPHRAGMS, STEEL COMPONENTS OF BEARING ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL WEB STIFFENERS, DRAINS, STEEL ANGLE BRACKETS AND STEEL HANDRAILS (WHEN PRESENT).

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

PAINTING.

THE FINAL FINISH COAT FOR THE "EXTERIOR" FACE OF THE FASCIA BEAMS, THE BOTTOM FLANGE OF THE FASCIA BEAMS AND THE EXTERIOR BEARINGS SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

THE FINAL FINISH COAT FOR THE INTERIOR SURFACE OF THE FASCIA I-BEAMS, ALL EXPOSED SURFACES OF THE INTERIOR I-BEAMS, STEEL STEEL COMPONENTS OF ALL INTERIOR BEARING ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL WEB STIFFENERS, DRAINS. STEEL BRACKETS. 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.

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PLOT DATE = 12/6/2021	DATE - 8/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES FOR STRUCTURES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	3
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351)			CONTRACT NO. 66M20	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	
				BRIDGE PAINTING 90% FED/10% STATE	BRIDGE PAINTING 80% FED/20% STATE
				BRIDGE 0047 S.N. 050-0166/050-0172	BRIDGE 0047 S.N. 050-0218
X5067503	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3	L SUM	1		1
X7010101	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	EACH	3	2	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	
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1		1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42		42

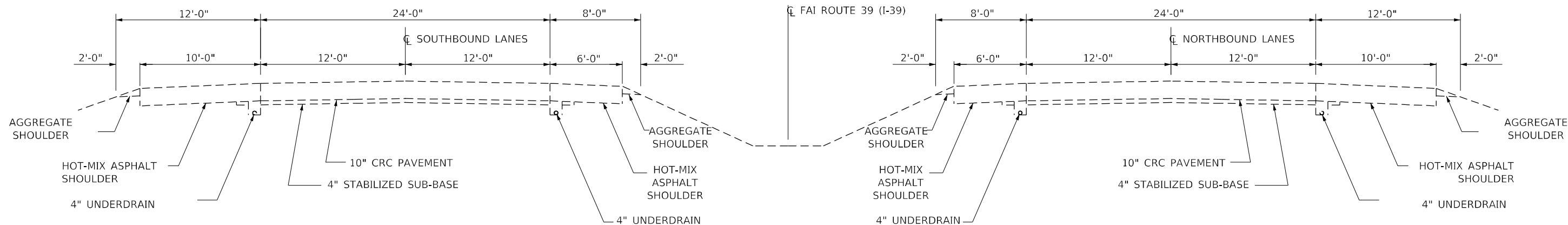
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PLOT DATE = 12/6/2021	DATE - 8/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.

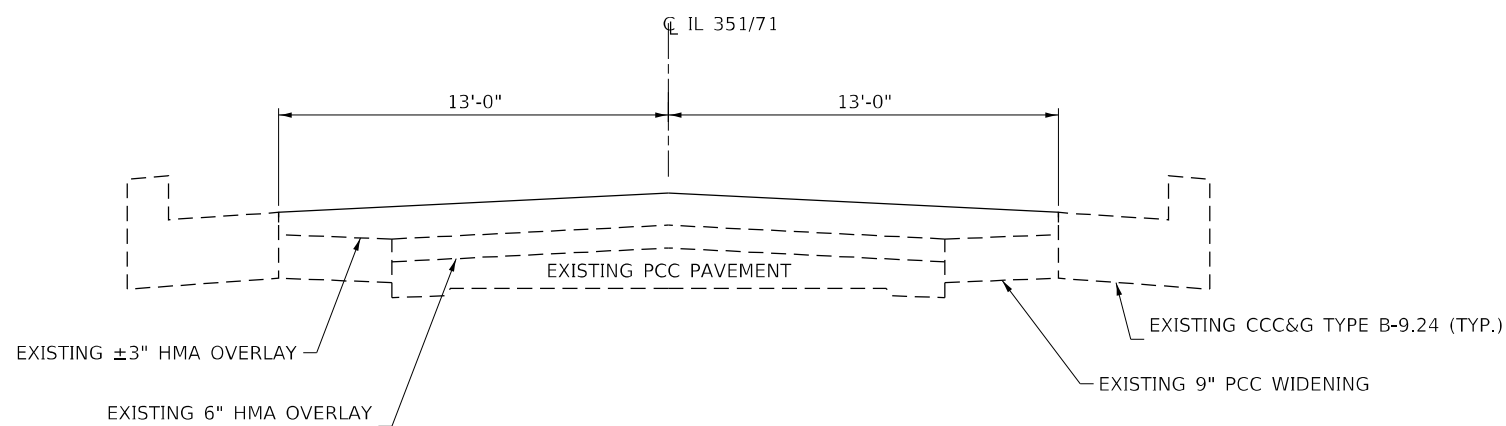
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*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	5
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351) CONTRACT NO. 66M20				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION

FAI 39

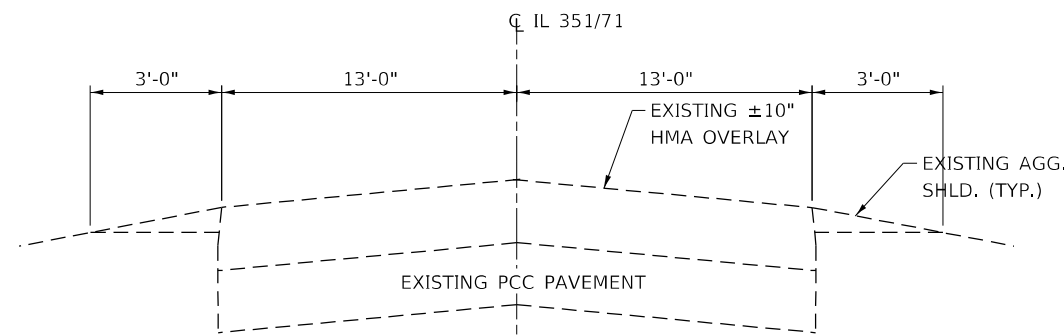
LOCATION NO. 1 & 2



TYPICAL SECTION

STA. 948+43 TO STA. 956+83

SOUTH OF STRUCTURE



TYPICAL SECTION

STA. 958+00 TO STA. 975+25

NORTH OF STRUCTURE

STRUCTURE OMISSION STA. 956+83 TO STA. 958+88

LOCATION NO. 3

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PLOT DATE = 12/6/2021	DATE - 8/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	6
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351) CONTRACT NO. 66M20				
ILLINOIS FED. AID PROJECT				

SCHEDULE - TRAFFIC CONTROL AND PROTECTION LOCATION NO. 1 - STRUCTURE NO. 050-0166

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701402	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	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
TOTAL	1	1	28	8	350	1050	1	3

**SCHEDULE - PAVEMENT MARKING
LOCATION NO. 1 - STRUCTURE NO. 050-0166**

LOCATION	PAVEMENT MARKING REMOVAL WATERBLASTING		POLYUREA PAVEMENT MARKING TYPE I	POLYUREA PAVEMENT MARKING TYPE I
	LINE 4"	LINE 6"	LINE 4"	LINE 6"
	SQ FT		FOOT	FOOT
NORTHBOUND LANES				
STAGE I	177	255	535	
STAGE II	177		535	510
SUBTOTAL	354	255	1070	510
SOUTHBOUND LANES				
STAGE I	177	255	535	
STAGE II	177		535	510
SUBTOTAL	354	255	1070	510
TOTAL	1218		2140	1020

**SCHEDULE - CLEANING AND PAINTING
LOCATION NO. 1 - STRUCTURE NO. 050-0166**

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	L SUM
STRUCTURE NO. 050-0166	1	1	1
TOTAL	1	1	1

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PLOT DATE = 12/6/2021	DATE - 8/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES - LOCATION NO. 1
STRUCTURE NO. 050-0166**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	7
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351) CONTRACT NO. 66M20				
ILLINOIS FED. AID PROJECT				

SCHEDULE - TRAFFIC CONTROL AND PROTECTION LOCATION NO. 2 - STRUCTURE NO. 050-0172

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701402	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	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
TOTAL	1	1	28	8	350	1050	1	3

**SCHEDULE - PAVEMENT MARKING
LOCATION NO. 2 - STRUCTURE NO. 050-0172**

LOCATION	PAVEMENT MARKING REMOVAL WATERBLASTING		POLYUREA PAVEMENT MARKING TYPE I	POLYUREA PAVEMENT MARKING TYPE I
	LINE 4"	LINE 6"	LINE 4"	LINE 6"
	SQ FT		FOOT	FOOT
NORTHBOUND LANES				
STAGE I	177	255	535	
STAGE II	177		535	510
SUBTOTAL	354	255	1070	510
SOUTHBOUND LANES				
STAGE I	177	255	535	
STAGE II	177		535	510
SUBTOTAL	354	255	1070	510
TOTAL	1218		2140	1020

**SCHEDULE - CLEANING AND PAINTING
LOCATION NO. 2 - STRUCTURE NO. 050-0172**

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	L SUM
STRUCTURE NO. 050-0172	1	1	1
TOTAL	1	1	1

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PLOT DATE = 12/6/2021	DATE - 8/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES - LOCATION NO. 2
STRUCTURE NO. 050-0172**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	8
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351)			CONTRACT NO. 66M20	
ILLINOIS		FED. AID PROJECT		

SCHEDULE -
 TRAFFIC CONTROL AND PROTECTION
 LOCATION NO. 3 - STRUCTURE NO. 050-0218

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	TEMPORARY INFORMATION SIGNING
	L SUM	SQ FT
TOTAL	1	42

SCHEDULE - CLEANING AND PAINTING
 LOCATION NO. 3 - STRUCTURE NO. 050-0218

LOCATION	CONTAINMENT AND DISPOSAL NON-LEAD PAINT CLEANING RESIDUES NO. 1	CLEANING AND PAINTING STEEL BRIDGE NO. 3	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3
	L SUM	L SUM	L SUM
TOTAL	1	1	1

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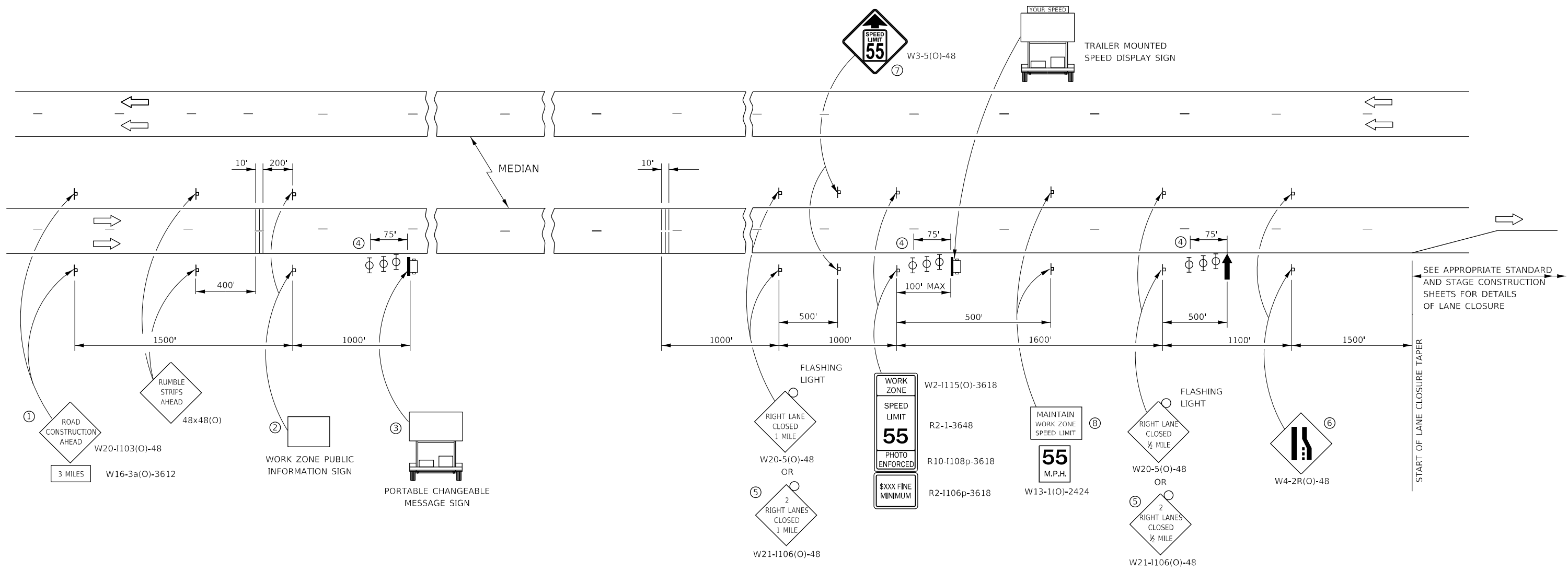
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

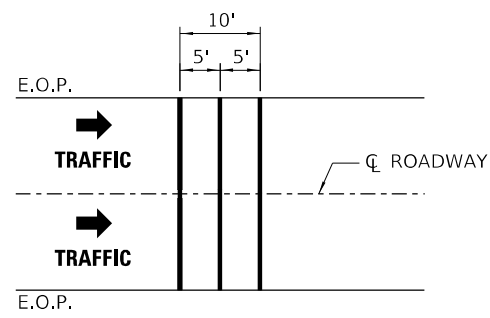
**SCHEDULES - LOCATION NO. 3
 STRUCTURE NO. 050-0218**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	9
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351) CONTRACT NO. 66M20				
ILLINOIS FED. AID PROJECT				



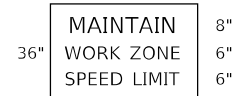
SEE APPROPRIATE STANDARD AND STAGE CONSTRUCTION SHEETS FOR DETAILS OF LANE CLOSURE



TEMPORARY RUMBLE STRIP (SPECIAL)
 FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED "ONE EACH".

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. 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"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

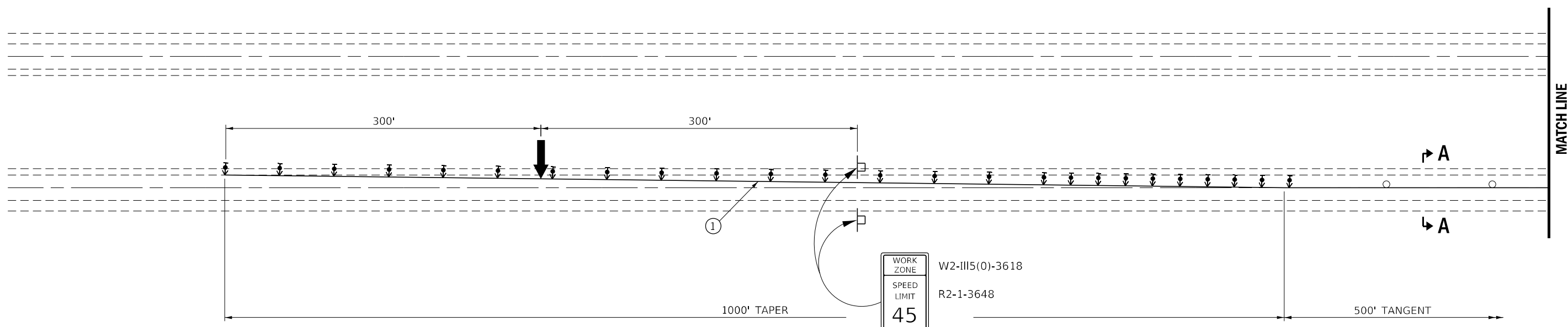
⑧ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.
 48"



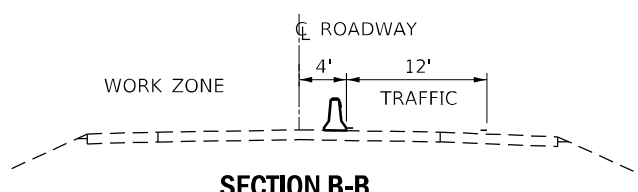
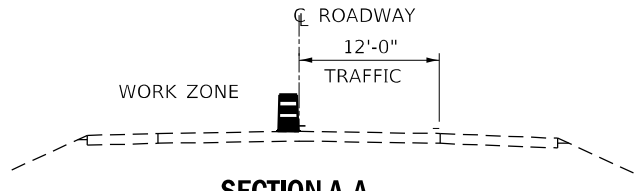
"MAINTAIN WORK ZONE SPEED LIMIT" SIGN SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THIS TRAFFIC CONTROL STANDARD.

- ↑ 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 NOTE:
 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 THREE SIGNS, RUMBLE STRIPS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).
 SEE SPECIAL PROVISIONS.

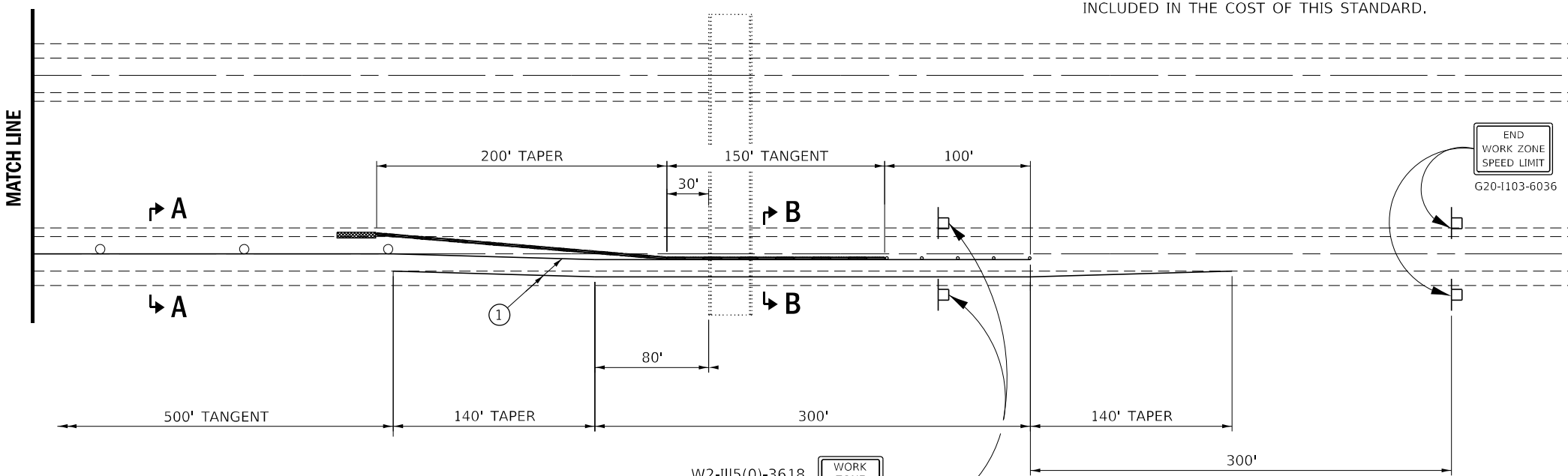


① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW. COST OF INSTALLING AND REMOVING THE TEMPORARY PAVEMENT MARKING TAPE SHALL BE INCLUDED IN THE COST OF THIS STANDARD.

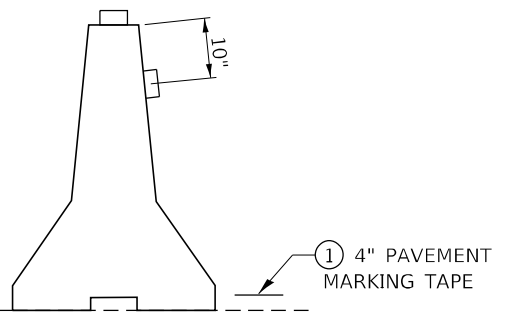


SYMBOLS

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TRAFFIC CONTROL DRUM (TANGENT)
- TRAFFIC CONTROL DRUM, WITH STEADY BURN MONODIRECTIONAL LIGHT (TAPERS)
- TEMPORARY CONCRETE BARRIER
- MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKERS AT 25' CTS. MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.
- IMPACT ATTENUATOR



END WORK ZONE SPEED LIMIT G20-I103-6036



TEMPORARY CONCRETE BARRIER

GENERAL NOTES

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

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

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

WHENEVER WORK IS PERFORMED FROM THE BRIDGE DECK, TRAFFIC CONTROL AND PROTECTION SHALL BE ACCORDING TO STANDARD 701201.

WHENEVER WORK IS BEING PERFORMED IN THE ADJACENT LANE, TRAFFIC CONTROL SHALL BE A MIRROR IMAGE OF WHAT IS SHOWN.

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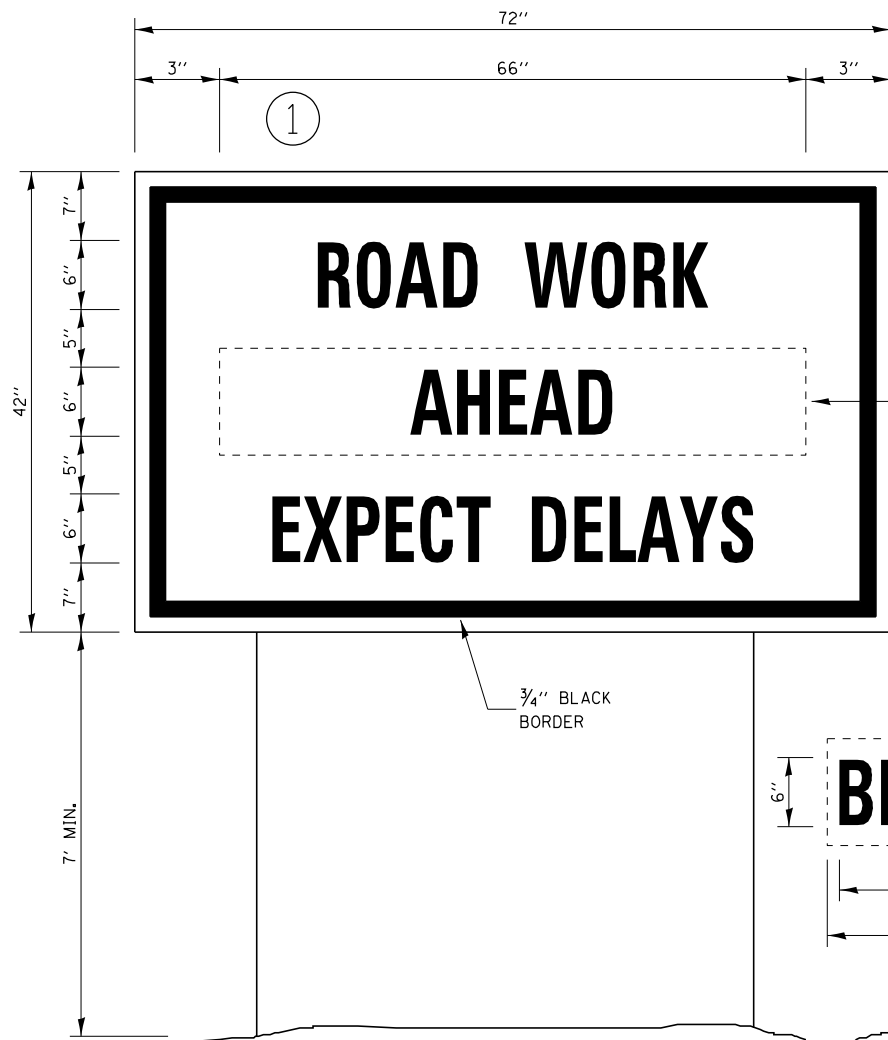
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	DRAWN -	REVISED -
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PLOT DATE = 12/6/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

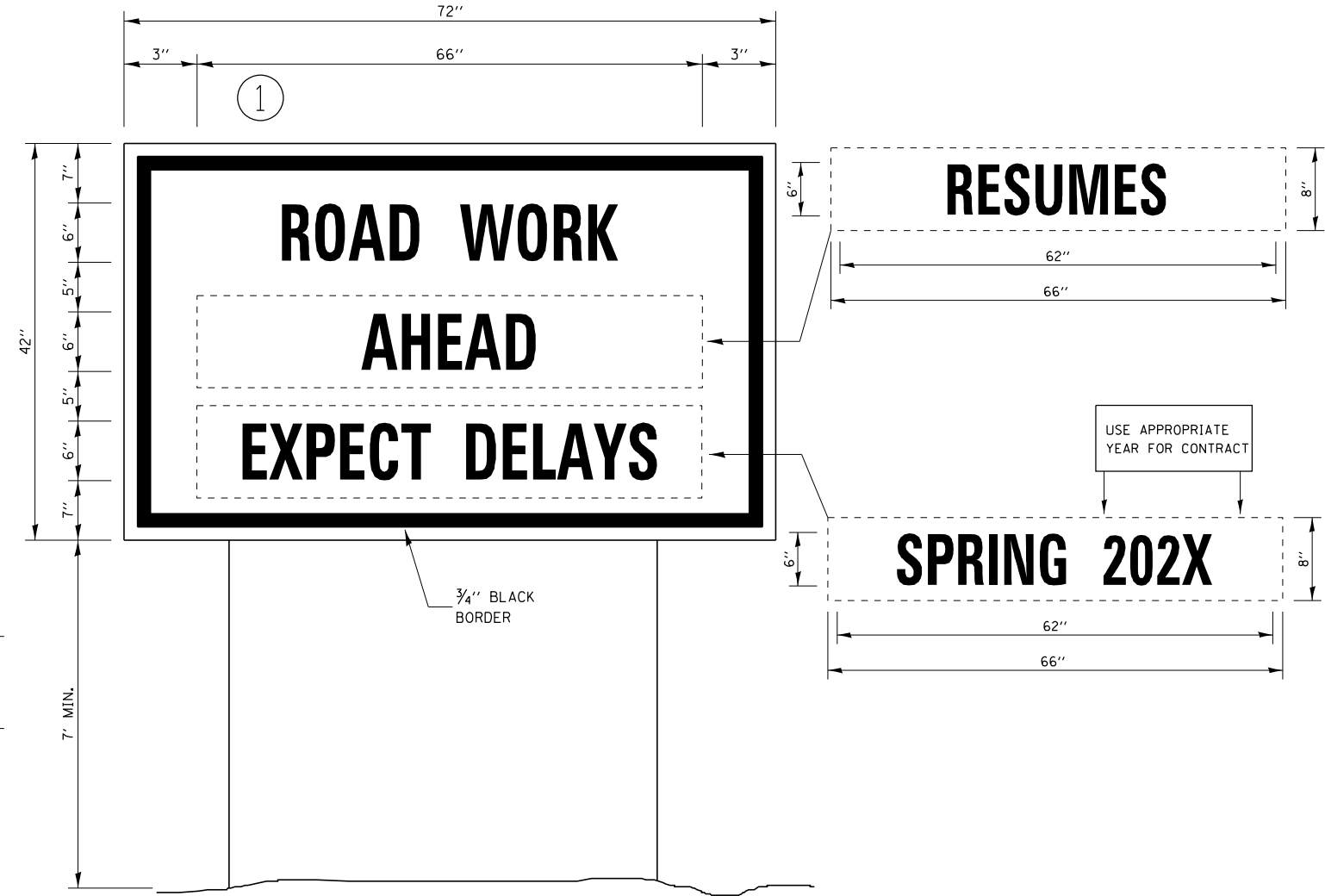
TRAFFIC CONTROL AND PROTECTION, STANDARD 701402
FOR LOCATION NO.1 AND LOCATION NO. 2

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	11
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351) CONTRACT NO. 66M20				
ILLINOIS FED. AID PROJECT				



TEMPORARY INFORMATION SIGNING



WINTER SHUT DOWN SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

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PLOT SCALE = 100,0000 ' / in.	CHECKED - YP	REVISED -
PLOT DATE = 12/6/2021	DATE - 8/13/2021	REVISED -

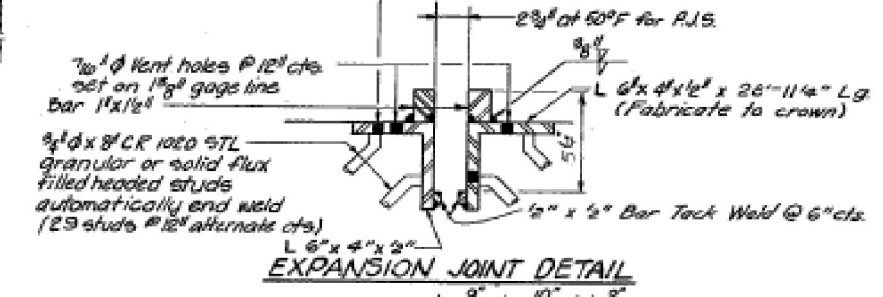
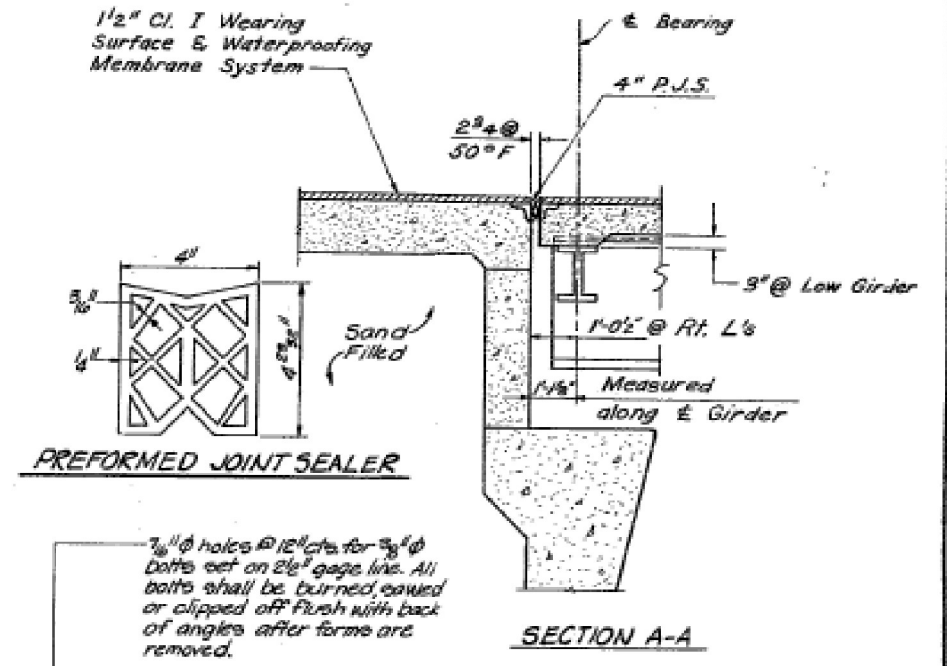
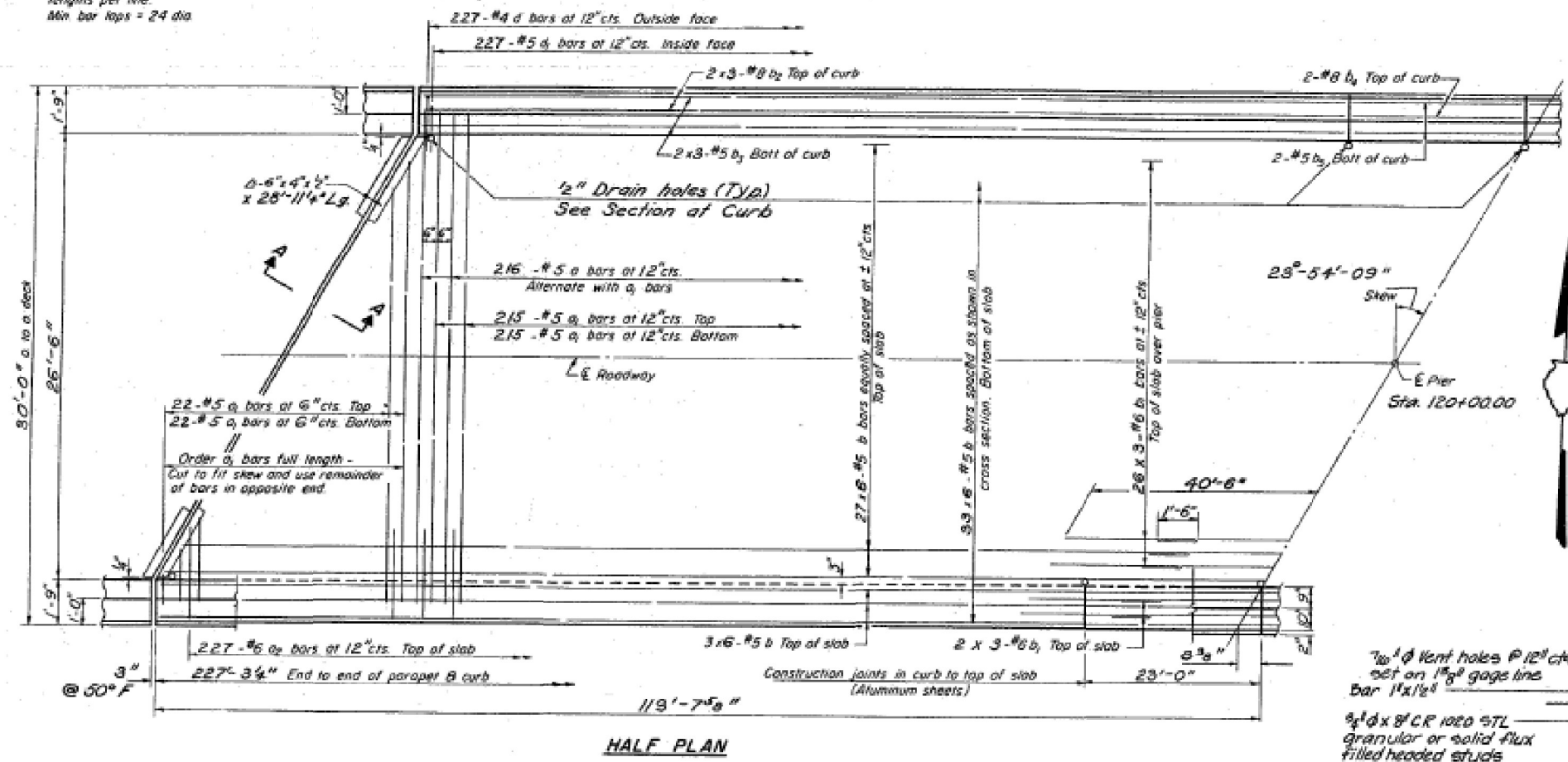
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INFORMATION SIGNING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	13
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351)			CONTRACT NO. 66M20	
ILLINOIS FED. AID PROJECT				

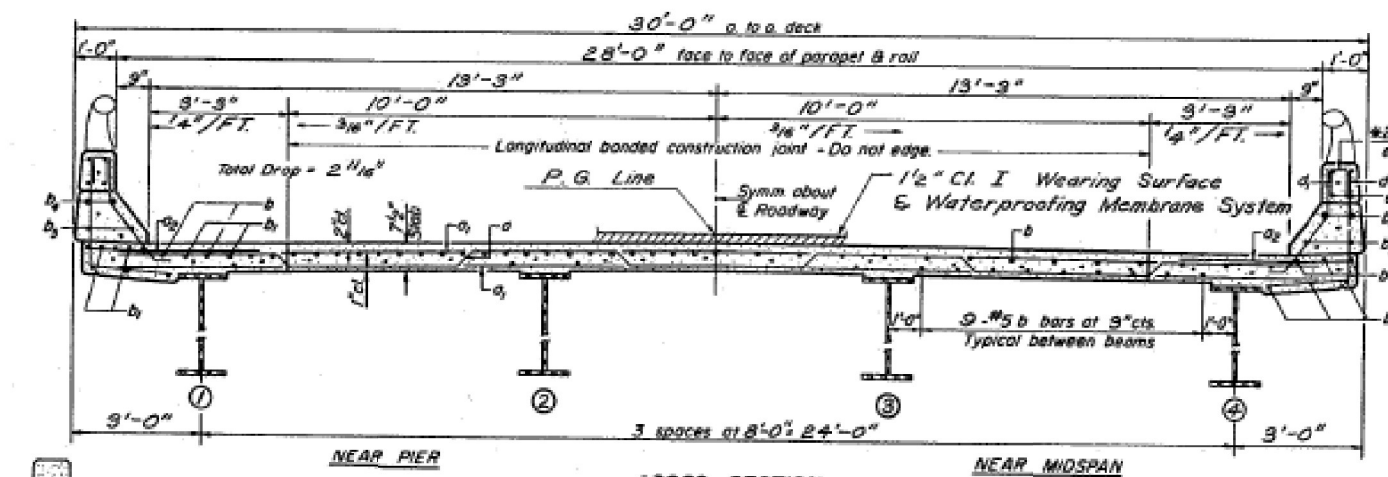
NOTE:
 Bars indicated thus 20 x 3-#5 etc.
 indicates 20 lines of bars with 3
 lengths per line.
 Min. bar laps = 24 dia



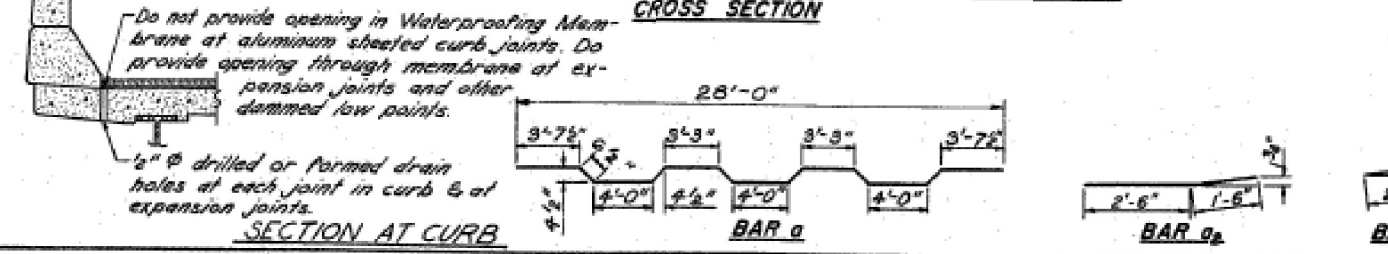
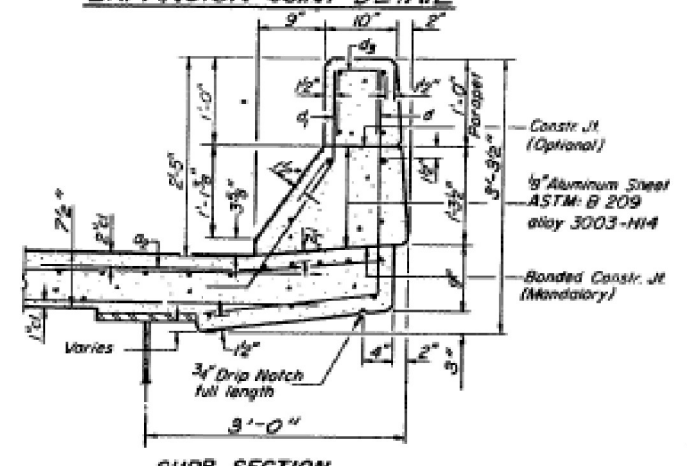
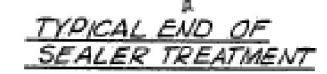
BILL OF MATERIAL

Bar	No	Size	Length	Shape
a	216	#5	29'-0"	~
b	474	#5	27'-8"	~
c	454	#6	4'-0"	~
d	396	#5	39'-0"	~
e	90	#6	28'-0"	~
b1	24	#8	3'-6"	~
b2	24	#5	3'-0"	~
b3	3	#8	22'-9"	~
b4	3	#5	22'-9"	~
d	454	#4	4'-9"	~
e	454	#5	3'-7"	~

Reinforcement Bars Lbs. 49,840
 Class X Concrete Cu Yds. 1977
 Preformed Jt Sealer Lin Ft. 64



NOTE: For placement of bars a1 and a2 see sheet # 6



SUPERSTRUCTURE - SPANS 2 & 3

REVISIONS	DATE	BY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

TR 205 OVER FA 412
 FA 412 SEC. 50-6 NB PROJ.
 STA. 1351+66.73 (FA +12) LASALLE CO.
 HOMER L. CHASTAIN & ASSOCIATES
 CONSULTING ENGINEERS
 DECATUR, ILLINOIS

FOR INFORMATION "ONLY"

USER NAME = woodshank1	DESIGNED - RW	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - RW	REVISED -
PLOT DATE = 11/6/2021	CHECKED - YP	REVISED -
	DATE - 8/13/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS FOR LOCATION NO. 2
 STRUCTURE NO. 050-0172

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* (50-6NB, 50-7HB-1, 70VB)BP		LASALLE	29	21
* F.A. 139 (I-39) & F.A.P. 619 (IL 351)				CONTRACT NO. 66M20
		ILLINOIS		FED. AID PROJECT

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

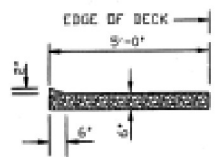
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 PLOT DATE: 11/6/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

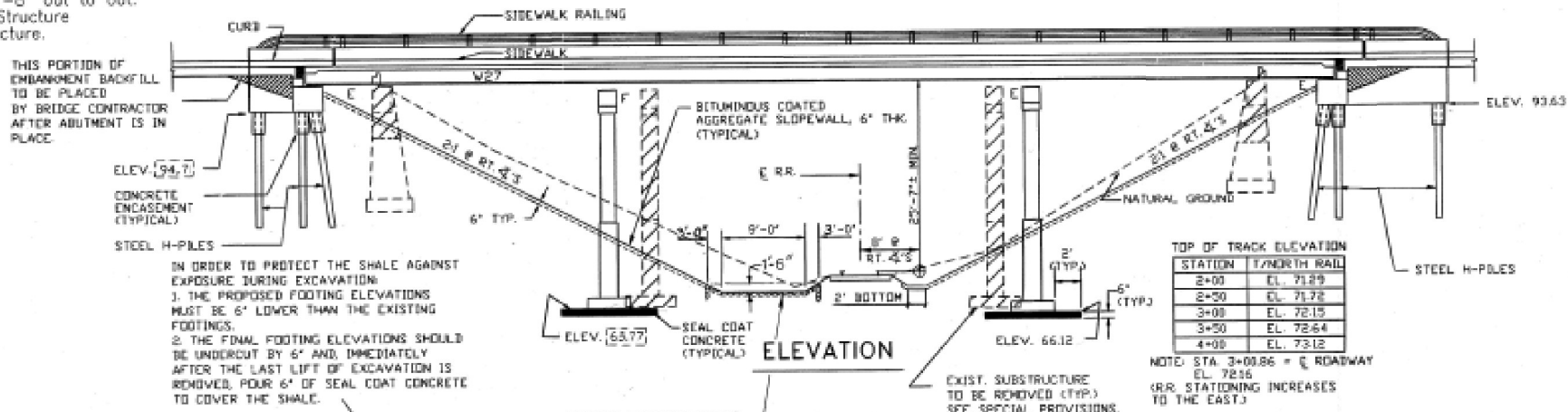
DATE	SCALE	SHEET	NO.
TYP REV	7/8	LASALLE	35
FILE NO. (SEE DIST. NO. 7)	ILLINOIS	FED. AID PROJECT	

B.M. : U.S.C. & G.S. Monument (M-230, 1960, Elev. 569.10)
on N.E. Wingwall, 17' Rt. Sta. 958+46.6,
Elev. 100.00' (assumed).
Existing Structure :
S.N. 050-0020 built 1941 as SBI Route 2 Sec. 70VBR,
A 3 Span Continuous
Reinforced Concrete Deck on Steel Beams,
3-column Reinforced Concrete R.R. Piers,
3-column Reinforced Concrete Abutments,
Bk to Bk abuts. 124'-3"± and 34'-8" out to out.
The Contractor Will Remove Entire Structure
And Replace w/a New 3 Span Structure.
Traffic to be detoured.

No Salvage.



SECTION A-A

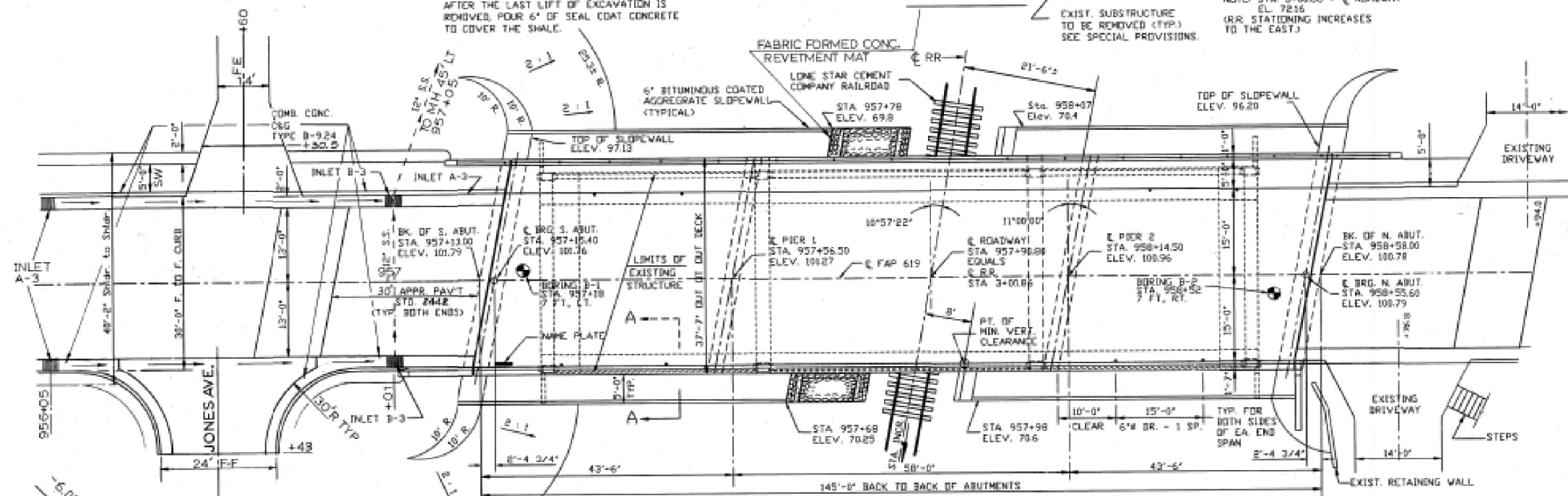


THIS PORTION OF EMBANKMENT BACKFILL TO BE PLACED BY BRIDGE CONTRACTOR AFTER ABUTMENT IS IN PLACE.

IN ORDER TO PROTECT THE SHALE AGAINST EXPOSURE DURING EXCAVATION:
1. THE PROPOSED FOOTING ELEVATIONS MUST BE 6" LOWER THAN THE EXISTING FOOTINGS.
2. THE FINAL FOOTING ELEVATIONS SHOULD BE UNDERCUT BY 6" AND IMMEDIATELY AFTER THE LAST LIFT OF EXCAVATION IS REMOVED, POUR 6" OF SEAL COAT CONCRETE TO COVER THE SHALE.

STATION	1/4" NORTH RAIL
2+00	EL. 71.29
2+30	EL. 71.72
3+00	EL. 72.15
3+30	EL. 72.64
4+00	EL. 73.12

NOTE: STA. 3+00.86 = E. ROADWAY EL. 72.16
(RR. STATIONING INCREASES TO THE EAST)



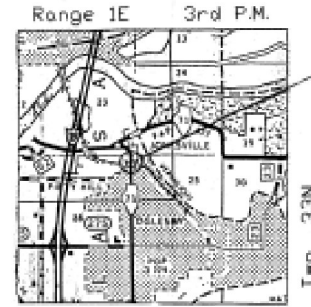
PLAN

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Wei Henry
Professional Engineer

AS REVISED
LH 1/14/24

*Includes Top of bridge deck.

PROJECT LOCATION



LOCATION SKETCH

DESIGN STRESSES

FIELD UNITS
fc = 3,500 p.s.i.
fy = 60,000 p.s.i. (Reinf.)
fy = 50,000 p.s.i. (Str. St. M270 Grade 50)
fy = 36,000 p.s.i. (Str. St. M270 Grade 36)

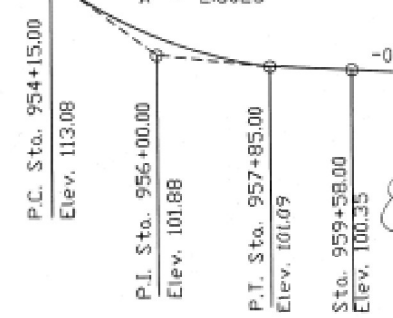
LOADING HS20-44

Design Specification: 1990 A.A.S.H.T.O. and Seismic Guidelines 1983 A.A.S.H.T.O.
Allow 25# / Sq.Ft. for future wearing surface S.R.C.-A
Site Coeff. = 1.2
AASHTO Seismic Application Coefficients 0.8

STA. 957+85.50
BUILT 1991 BY
STATE OF ILLINOIS
FAP RTE. 619 (IL 351/71) SEC. 70VBR
LOADING HS20
STR. NO. 050-0218

NAME PLATE
(SEE STR. 2113)

PROFILE GRADE
(Along C of Roadway)



- GENERAL NOTES
- BRIDGE SHEET 35 OF 13
- (1) Fasteners shall be high strength bolts AASHTO M164. Bolts 7/8" diameter, open holes 15/16" diameter, unless otherwise noted.
 - (2) Calculated weight of structural steel equals 91,121 pounds.
(M270, grade 36 17,370)
(M270, grade 50 73,751)
 - (3) The Inorganic Zinc-Silicate / Acrylic / Acrylic Paint System shall be used for shop and field painting of structural steel except where otherwise noted. The color of the acrylic finish coat shall be Interstate Green, Munsell No. 7.5G 4/8.
 - (4) Field welding of construction accessories will not be permitted to the bottom flange of beams nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
 - (5) The main load carrying member components subject to tensile stress shall conform to the supplemental requirements for Notch Toughness Zone 2. This component is the steel wide flange beam and all splice plate materials except filler plates.
 - (6) Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
 - (7) Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 - (8) See Sht. 26 of 35 for Boring Data.
 - (9) Contractor shall drive one (1) steel test pile at a permanent location as directed by the Engineer at each abutment prior to ordering the remainder of piles.
 - (10) Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings shims of the dimensions of top plate shall be provided and placed as detailed.
 - (11) Bridge seats of all abutments shall receive a Bridge Seat Sealer.
 - (12) Anchor bolts shall be set before bolting diaphragms over supports.
 - (13) For cantilever forming brackets see Special Provisions.

TOTAL BILL OF MATERIALS				
ITEM	UNIT	SUB	SUPER	TOTAL
REMOVE EXISTING STRUCTURE	EA.	---	---	1
STRUCTURE EXCAVATION	CU. YD.	653	---	653
FLOOR DRAINS	EA.	---	8	8
PROTECTIVE COAT	SQ. YD.	---	670	670
ELASTOMERIC BRG. ASSEMBLY, TYPE I	EA.	---	18	18
PREFORMED JOINT SEAL 2 1/2"	UN. FT.	---	39	39
PREFORMED JOINT SEAL 4"	UN. FT.	---	39	39
BRIDGE SEAT SEALER	SQ. FT.	216	---	216
CLASS X CONCRETE	CU. YD.	219.3	---	219.3
CLASS X CONCRETE-SUPERSTRUCTURE	CU. YD.	---	175.6	175.6
SEAL COAT CONCRETE	CU. YD.	17	---	17
FURN. & ERECT. STRUCTURAL STEEL	L. SUM	---	1	1
STUD SHEAR CONNECTORS	EA.	---	2446	2446
ALUMINUM RAILING, TYPE L	LIN. FT.	---	160	160
REINFORCEMENT BARS	LB.	990	---	990
REINF. BARS (EPOXY COATED)	LB.	25,560	37,080	62,640
FURNISHING PILES-STEEL HP 10x42	UN. FT.	426	---	426
TEST PILES-STEEL HP 10x42	EA.	2	---	2
DRIVING PILES-STEEL	UN. FT.	426	---	426
BITUM. COATED AGG. SLOPEWALL 6"	SQ. YD.	653	---	653
NAME PLATE	EA.	---	1	1
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	17	---	17
BRIDGE DECK GROOVING	SQ. YD.	---	472	472

GENERAL PLAN & ELEVATION

F.A.P. RTE. 619 (IL 351/71)
over LONE STAR CEMENT
COMPANY RAILROAD
SECTION 70VBR
LASALLE COUNTY
STATION 957+85.50
S.N. 050-0218



FOR INFORMATION "ONLY"

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PLOT SCALE = 100,000' / in.	DRAWN - RW	REVISED -
PLOT DATE = 11/6/2021	CHECKED - YP	REVISED -
	DATE - 8/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS FOR LOCATION NO. 3
STRUCTURE NO. 050-0218

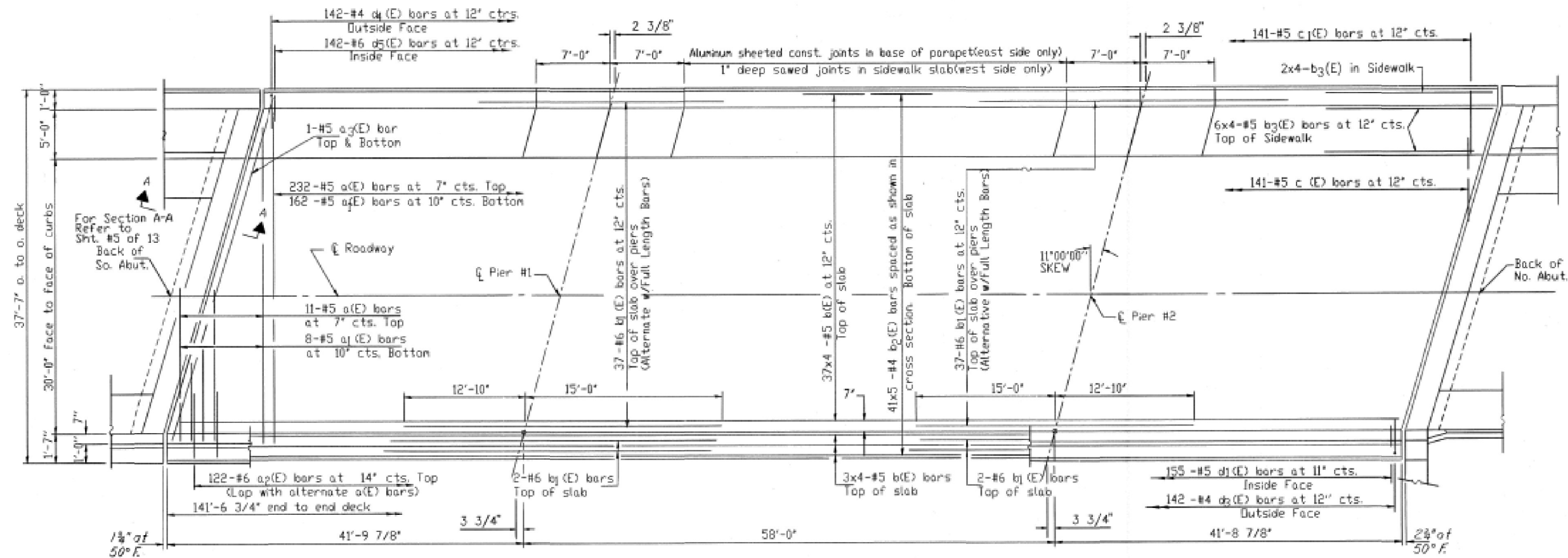
SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*F.A.I. 39 (I-39) & F.A.P. 619 (IL 351)	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	26
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

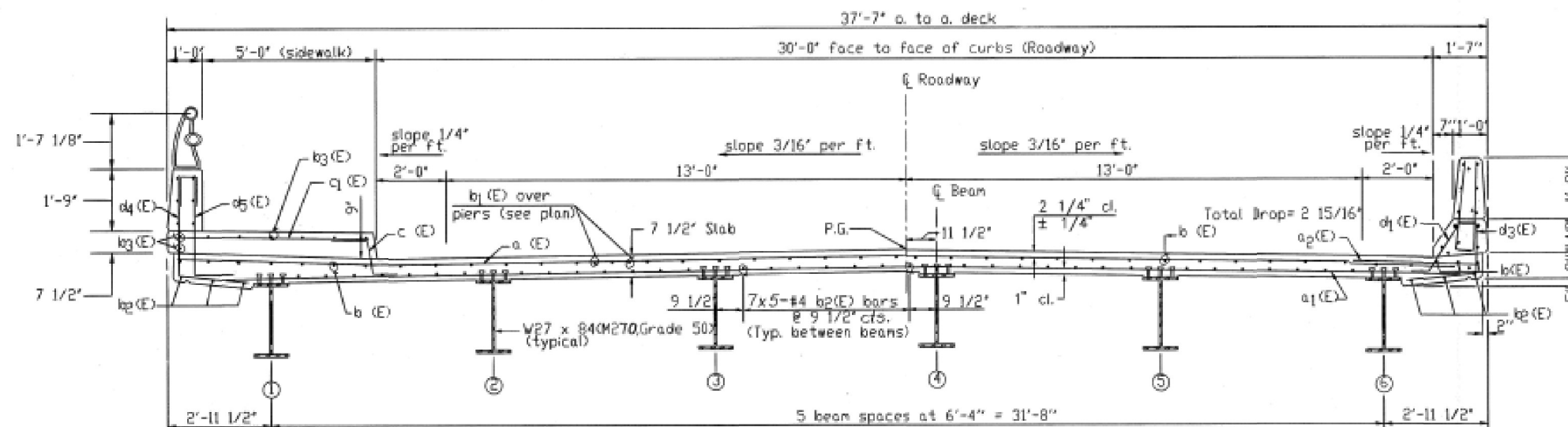
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 619	70	LASALLE	35	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

BRIDGE SHEET 14 OF 13



* Under a(E) & a1(E) bars full length. Cut to fit skew in field and use remainder of bars in opposite end.

PLAN



CROSS SECTION
NEAR MIDSPAN (TYPICAL)

Notes: See Sheet #5 of 13 for superstructure details and Bill of Material. Reinforcement bars designated (E) shall be epoxy coated. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line. See Sheet #5 of 13 for parapet reinforcement.

Min. Bar Laps

- #4 Bars = 1'-4"
- #5 Bars = 1'-10"
- #6 Bars = 2'-7"
- #8 Bars = 4'-6"

SUPERSTRUCTURE

F.A.P. RTE. 619 (IL 351/71)
over LONE STAR CEMENT
COMPANY RAILROAD
SECTION 70VBR
LASALLE COUNTY
STATION 957+85.50
S.N. 050-0218

FOR INFORMATION "ONLY"

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	DRAWN - RW	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 11/6/2021	DATE - 8/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS FOR LOCATION NO. 3
STRUCTURE NO. 050-0218

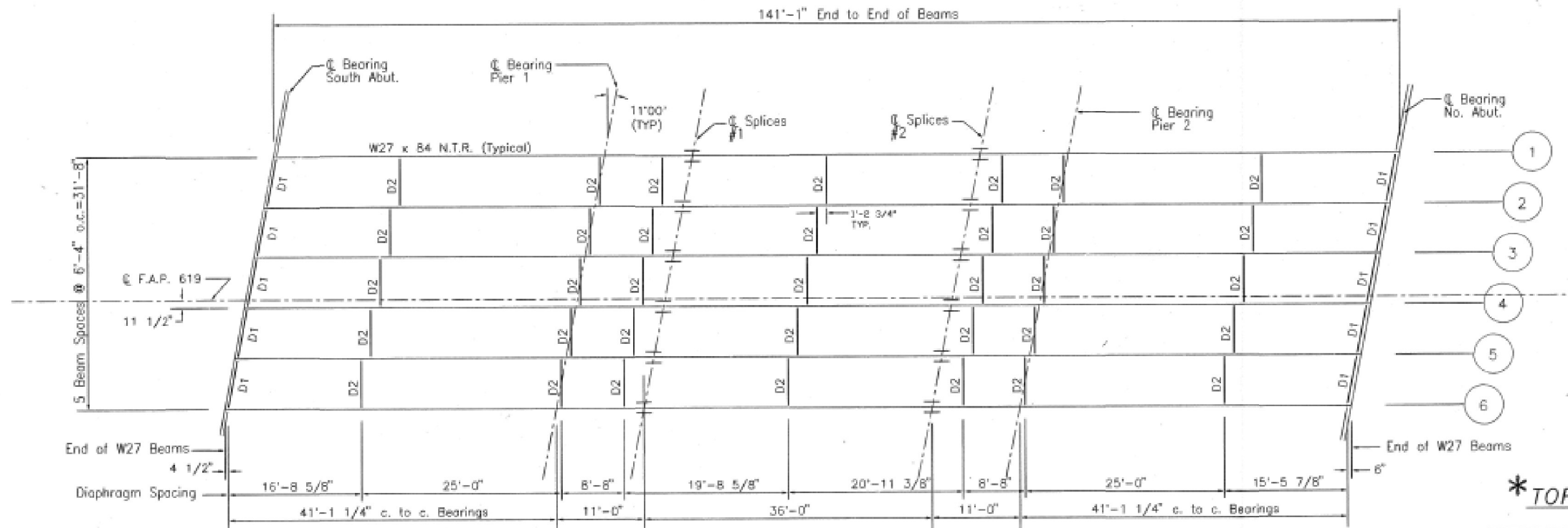
SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	27
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351)			CONTRACT NO. 66M20	
ILLINOIS			FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F&P 619	70 VBR	LASALLE	35	19
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

BRIDGE SHEET 19 OF 33



FRAMING PLAN

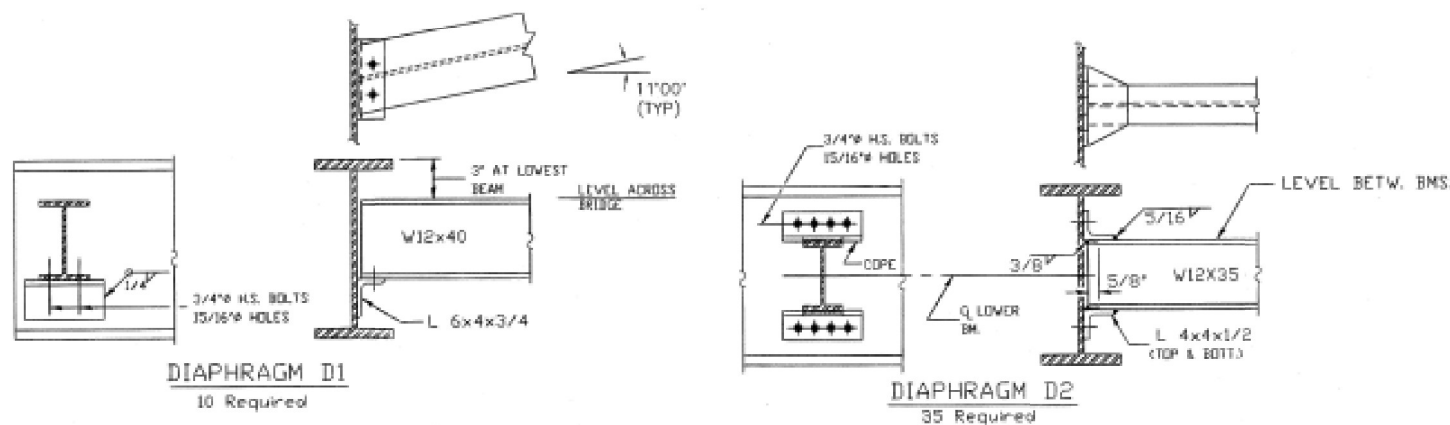
ALL BEAMS W27 x 84
N.T.R. DENOTES NOTCH TOUGHNESS REQUIRED

*TOP OF W BM. ELEVATIONS

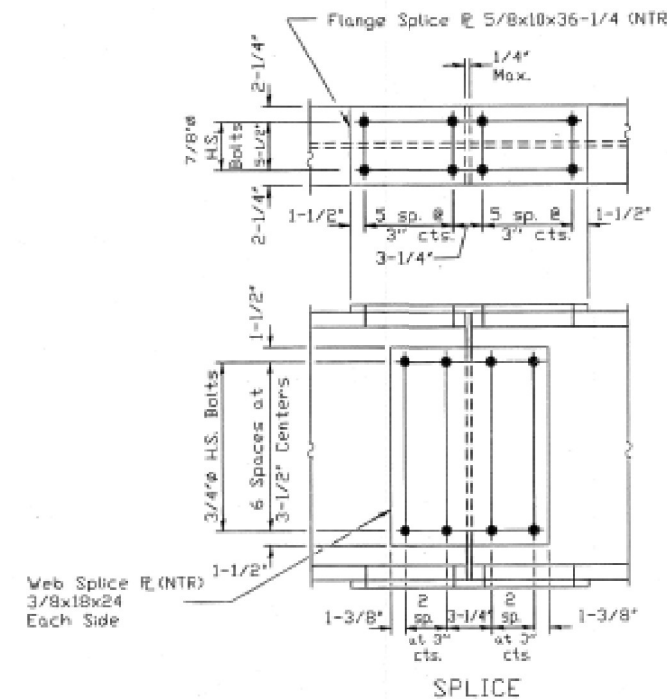
Bm. Loc.	1	2	3	4	5	6
So. Abut.	100.718	100.866	100.983	101.070	100.990	100.901
Pier 1	100.258	100.398	100.508	100.587	100.499	100.403
Spl. #1	100.135	100.273	100.381	100.458	100.368	100.270
Spl. #2	99.970	100.105	100.209	100.284	100.190	100.088
Pier 2	99.923	100.058	100.152	100.237	100.143	100.041
No. Abut.	99.747	99.883	99.987	100.061	99.967	99.865

* For Fabrication Only

All W27 beams & splice plates are M270 grade 50 steel.



Note: Two hardened washers shall be required over all 15/16" holes.



STRUCTURAL STEEL

F.A.P. RTE. 619<IL 351/71>
over LONE STAR CEMENT
COMPANY RAILROAD
SECTION 70VBR
LASALLE COUNTY
STATION 957+85.50

FOR INFORMATION "ONLY"

MODEL: Default
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USER NAME = woodshank1	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 11/6/2021	DATE - 8/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS FOR LOCATION NO. 3
STRUCTURE NO. 050-0218

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* (50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	28	
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351)	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 66M20	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FMP 505	70	LASALLE	35	20A
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

BRIDGE SHEET 20A OF 33

INTERIOR GIRDER MOMENT TABLE

	0.45P.1&	PIERS	0.35P.2
M(N.4)	2850	2850	2850
Ic(N.4)	8481		8481
Sx(N.3)	213	213	213
Sy(N.3)	331		331
Z(N.3)		N.A.	
Dl(K/FT.)	0.694	1.042	0.694
MdL(FT.-K)	71	264	110
SdL(N./FT.)	0.348		0.348
MsdL(FT.-K)	36		55
MllL(FT.-K)	230	138	317
Mmp(FT.-K)	69	39	86
5/3(MllL+)(FT.-K)	498	295	672
Mu(FT.-K)	787	729	1898
Mu(FT.-K)	1898		1898
FhdL (NON-COMP.)(KSI)	4.8	15.0	6.2
FhdL (COMP.)(KSI)	1.3		2.0
Fs 5/3(MllL+)(KSI)	18.1	16.4	24.4
Fs (OVERLOAD)(KSI)	23.4	31.6	32.6
fs (TOTAL)(KSI)		41.3	
VR(K)	44.4		37.8

INTERIOR GIRDER REACTION TABLE

	ABUT.	PIER
RDL (K)	15.0	37.9
RLL (K)	38.8	38.5
IMP. (K)	9.2	11.6
RTOTAL (K)	55.0	108.0

- *Mu=Full Plastic Moment Capacity for Compact, Braced Section.
- **Non-compact section
- Ma (Applied Moment) = 1.3 [MDL + MSdL + 5/3 (MllL + D)]
- N.A. = Not Applicable

NOTES

Ic and Sx are the moment of inertia and section modulus of the steel section used in computing fs (Total and Overload).

Ic and Sx are the moment of inertia and section modulus of the composite section used in computing fs (Total and Overload).

VR is the maximum LL + impact shear range in span.

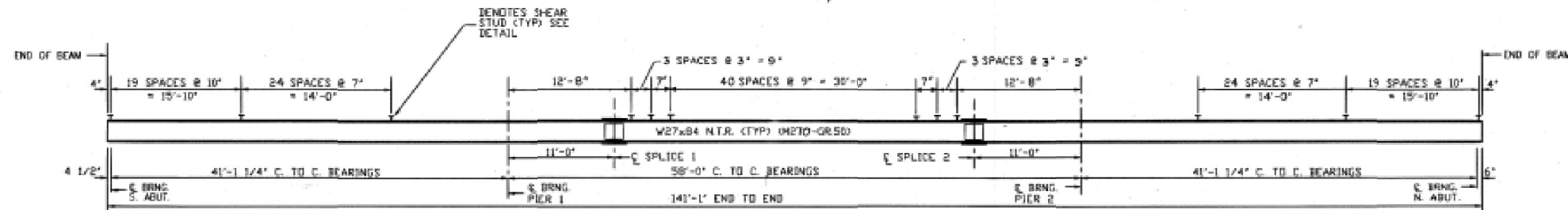
Z is the plastic section modulus used to determine the Fully Plastic Moments in the non-composite areas.

The Fully Plastic Moment capacity (Mu) is computed according to AASHTO 10.4B.1 & 10.50.1

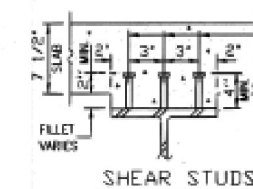
fs (Total) is the sum of the stresses due to 1.3(MDL + MSdL + 5/3(MllL + D)).

fs (Overload) is the sum of the stresses due to MDL + MSdL + 5/3 (MllL + D).

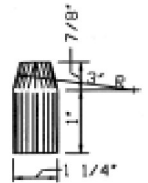
Ma (applied moment) = 1.3(MDL + MSdL + 5/3(MllL + D)).



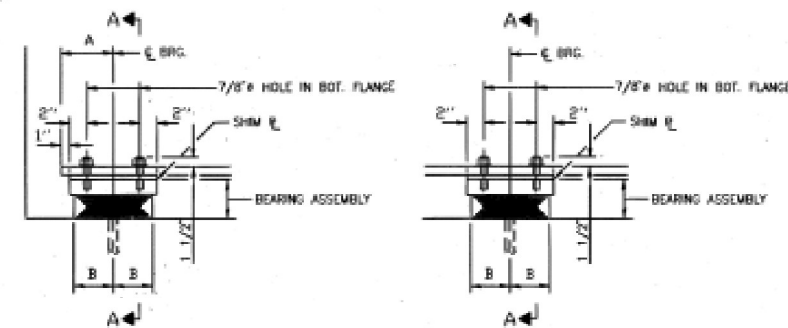
BEAM ELEVATION
NTR: DENOTES NOTCH TOUGHNESS REQUIRED



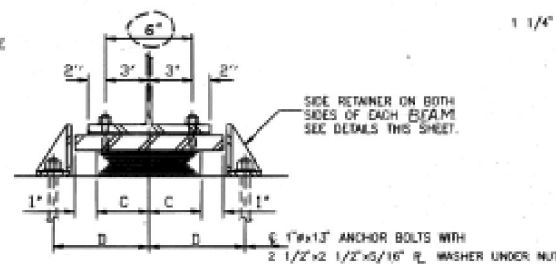
3/4" GRANULAR OR SOLID FLUX FILLED HEADED STUDS, CONFORMING TO THE REQUIREMENTS OF ART. 710.38 OF THE STD. SPECS. AUTOMATICALLY END WELDED TO FLANGE. (2466 REQ'D.)



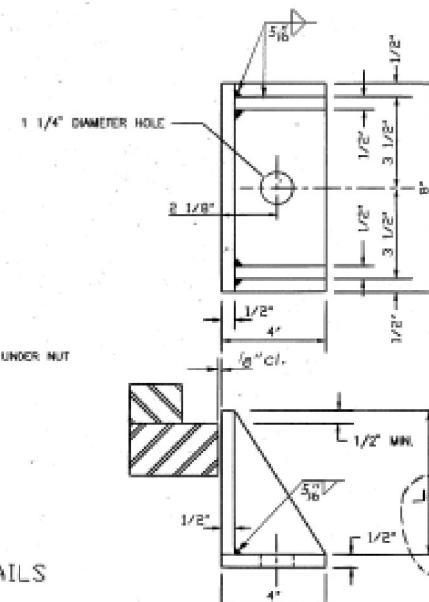
PINTLE DETAIL
1 3/8" Holes - 1" deep in top R for 1 1/4" pintles. Thread or press fit in bottom R.



ELEVATION AT ABUT. ELEVATION AT PIER 2
TYPE I ELASTOMERIC EXP. BRG. AT ABUTMENTS & PIER 2

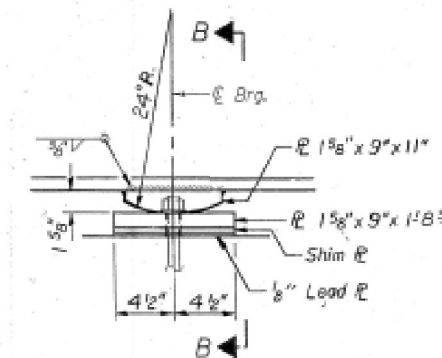


SECTION A-A

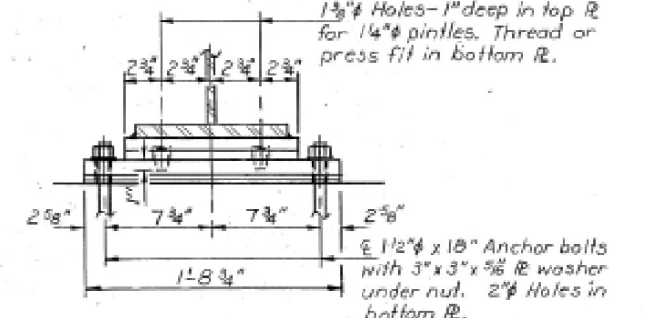


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



ELEVATION AT PIER 1



SECTION B-B

FIXED BEARING

Notes: Anchor bolts at fixed bearings may be built into the masonry. See sheet R10 For Anchor Bolt installation.

STRUCTURAL STEEL DETAILS

F.A.P. RTE. 619(KL 351/71)
over LDNE STAR CEMENT
COMPANY RAILROAD
SECTION 70VBR
LASALLE COUNTY
STATION 957+85.50
S.N. 050-0218

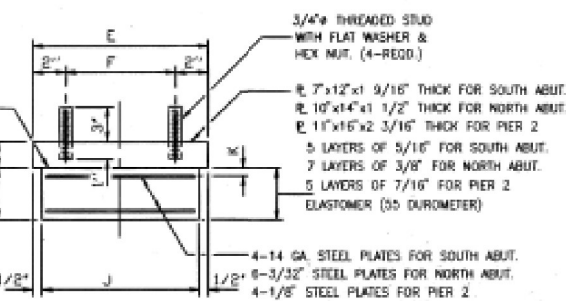
AS REVISED
11/16/2021

SCHEDULE FOR BEARING DETAILS

	NORTH ABUT.	PIER 2	SOUTH ABUT.
A	6'	N/A	4 1/2'
B	4 1/2'	5'	3'
C	6'	7'	5'
D	9 1/4'	10 1/4'	8 1/4'
E	10'	11'	7'
F	6'	7'	3'
G	4 11/16"	4 7/8"	3 7/16"
H	1 1/2"	2 3/16"	1 9/16"
I	3 3/16"	2 11/16"	1 7/8"
J	9"	10"	6"
K	3/8"	7/16"	5/16"
L	4 3/4"	5"	(3 1/2")

BILL OF MATERIAL

ITEM	UNIT	TOTAL
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	18



BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.

FOR INFORMATION "ONLY"

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PROJECT: 050-0218-20A
DATE: 11/16/2021

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PLOT SCALE = 100,0000' / in.	DRAWN - RW	REVISED -
PLOT DATE = 11/16/2021	CHECKED - YP	REVISED -
	DATE - 8/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS FOR LOCATION NO. 3
STRUCTURE NO. 050-0218

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(50-6HB, 50-7HB-1, 70VBR)BP	LASALLE	29	29
*F.A.I 39 (I-39) & F.A.P. 619 (IL 351)			CONTRACT NO. 66M20	
ILLINOIS			FED. AID PROJECT	