

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 729 (US-136)
SECTION 38BR-1

**BRIDGE DECK REPAIRS
LICK CREEK AT EAST EDGE OF DANVILLE
VERMILION COUNTY**

C-95-040-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	1
		ILLINOIS	CONTRACT NO. 70596	

D-95-110-06

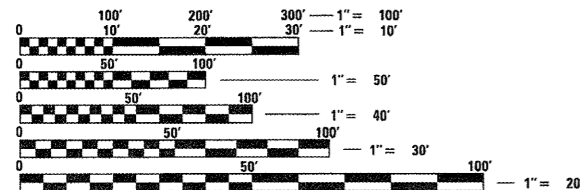


FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

**CURRENT
TRAFFIC DATA**

2010 ADT = 5,900
2030 ADT = 6,500
PU + PC % = 95.5
SU % = 2.2
MU% = 2.3

DESIGN DESIGNATION
OTHER PRINCIPLE ARTERIAL

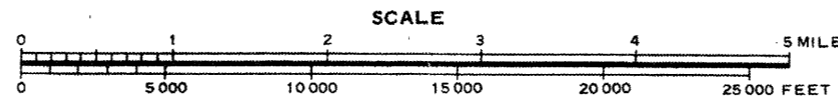
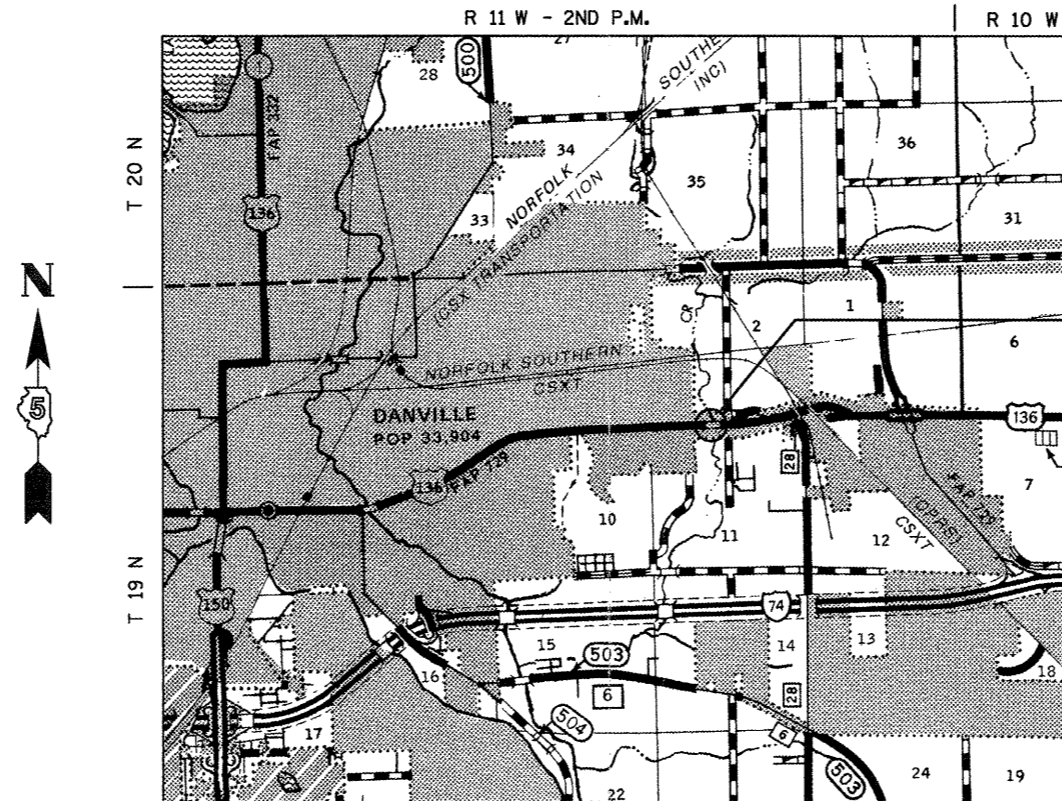


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TIM BRANDENBURG
PROJECT MANAGER: GARY SIMS
217-465-4181

CONTRACT NO. 70596



GROSS LENGTH = 299.0 FT. = 0.06 MILE
NET LENGTH = 299.0 FT. = 0.06 MILE

EXISTING S.N. 092-0144
F.A.P. 729 (US-136)
STATION 8+97.50
OVER LICK CREEK
PROPOSED STRUCTURE REPAIRS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 8/9 20 11
Joseph K. Cooney
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 14 20 11
Scott E. Stitt, P.E./a
acting ENGINEER OF DESIGN AND ENVIRONMENT

Oct 14 20 11
Christine M. Reed/a
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS
2	LIST OF STANDARDS
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	GENERAL PLAN & ELEVATION
5	STAGE CONSTRUCTION DETAILS
6	TEMPORARY CONCRETE BARRIER LAYOUT
7	TEMPORARY BRIDGE TRAFFIC SIGNAL LAYOUT
8	DECK CROSS SECTIONS
9	WEARING SURFACE AND OVERLAY PLAN
10	DECK AND APPROACH SLAB REPAIR PLAN
11	FLOOR DRAIN DETAILS
12	SLAB REMOVAL DETAILS
13	JOINT REPAIR PLAN
14	JOINT REPAIR DETAILS
15	SUBSTRUCTURE REPAIR PLAN
16	BAR SPLICER ASSEMBLY DETAILS
17-21	AS-BUILT PLANS - FOR INFORMATION ONLY
22-25	PAVEMENT MARKING AND MARKERS (RURAL AND URBAN APPLICATIONS)

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT-TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-11	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

GENERAL NOTES

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	US-136	US-136
Mixture Use	H.M.A. OVERLAY	H.M.A. BASE COURSE
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	15	25
DESIGN AIR VOIDS	4.0% @ Ndes=50	4.0% @ Ndes=50
MIX COMP (GRADATION)	IL 9.5	IL 19.0
FRICTION AGGREGATE	MIX D	N.A.

G.N.-781

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

NO COMMITMENTS

FILE NAME =	USER NAME = smsgm	DESIGNED - GMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, LIST OF STANDARDS & GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\smsgm\013214\057056-sht-genote.dgn	DRAWN - GMS	REVISED -	729			38BR-1	VERMILION	25	2	
PLOT SCALE = 40.0001' / in.	CHECKED -	REVISED -	CONTRACT NO. 70596							
PLOT DATE = 6/14/2011	DATE -	REVISED -	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							

SUMMARY OF QUANTITIES

FAP 729 (US-136)
VERMILION CO.
URBAN
TWO LANE
100% STATE

S.N. 092-0144

CONSTRUCTION TYPE CODE: 0014

CODE NO	ITEM	UNIT	TOTAL QUANTITY
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	77.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	347.0
40600990	TEMPORARY RAMP	SQ YD	100.0
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	42.0
48203004	HOT-MIX ASPHALT SHOULDERS, 13/4"	SQ YD	350.0
50102400	CONCRETE REMOVAL	CU YD	6.8
50300100	FLOOR DRAINS	EACH	8.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	7.8
50300260	BRIDGE DECK GROOVING	SQ YD	620.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	890.0
50800515	BAR SPLICERS	EACH	10.0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	100.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5.0
67100100	MOBILIZATION	L SUM	1.0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	362.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	362.5
* 78001110	PAINT PAVEMENT MARKING - LINE4"	FOOT	673.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2.0
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER(BRIDGE)	EACH	2.0
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4.0
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	20.0
Z0002900	BASE COURSE (OPTION)	SQ YD	528.0
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	652.0
Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	652.0
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH LESS THAN OR EQUAL TO 5")	SQ FT	90.0
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	14.0
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	22.0
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0

* SPECIALTY ITEMS

FILE NAME =	USER NAME = smsgm	DESIGNED - GMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\p-work\pvidot\smsgm\d0132144\057056-akt-500.dgn		DRAWN - GMS	REVISED -			729	388R-1	VERMILION	25	3
PLOT SCALE = 40.0001' / in.		CHECKED -	REVISED -			CONTRACT NO. 70596				
PLOT DATE = 8/9/2011		DATE -	REVISED -			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

GENERAL PLAN & ELEVATION

S.N. 092-0144

ELEVATIONS SHOWN HAVE BEEN TAKEN FROM AS-BUILT PLANS AND ARE INCLUDED FOR PERSPECTIVE ONLY.

THE EXISTING STRUCTURE WAS BUILT IN 1970 BY THE STATE OF ILLINOIS AS F.A. ROUTE 11, SECTION 38BR AT STATION 8+97.50 IN VERMILION COUNTY. THE STRUCTURE CARRIES F.A.P. 729 (US-136) OVER LICK CREEK AT THE EAST EDGE OF DANVILLE.

THE SUPERSTRUCTURE CONSISTS OF A 7½" R.C. DECK SUPPORTED BY SEVEN 48" P.P.C. I-BEAMS. THE SUPERSTRUCTURE IS SUPPORTED BY A SINGLE SOLID-SHAFT HAMMERHEAD PIER ON A SPREAD FOOTING AND TWO PILE BENT SPILL-THRU ABUTMENTS. THE STRUCTURE MEASURES 142'-8" FROM BACK TO BACK OF ABUTMENTS AND HAS TWO SPANS MEASURING 68'-6" EACH. THE DECK HAS A CLEAR WIDTH OF 42'-6" FROM FACE TO FACE OF PARAPET AND AN OUT-TO-OUT WIDTH OF 46'-0".

METHOD OF CONSTRUCTION: STAGE CONSTRUCTION

SEE PROPOSED IMPROVEMENTS ON THIS SHEET.

PROPOSED WORK

1. PERFORM ¾" BRIDGE DECK SCARIFICATION AND FULL-DEPTH DECK PATCHING.
2. MILL BUTT JOINT OVER APPROACH ROADWAY.
3. REPLACE HATCH BLOCKS AND PERFORM PARTIAL-DEPTH PATCHING ON APPROACH SLABS.
4. REMOVE THE EXISTING PREFORMED JOINT SEALS AND REPLACE WITH STRIP SEALS.
5. INSTALL NEW FLOOR DRAINS IN DECK.
6. PLACE PROPOSED 2½" MICROSILICA CONCRETE OVERLAY OVER BRIDGE DECK AND 1¾" H.M.A. OVERLAY ON APPROACH PAVEMENTS AND APPROACH ROADWAY.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION, ¾"	SQ YD	652.0
DECK SLAB REPAIR (FULL-DEPTH, TYPE I)	SQ YD	14.0
DECK SLAB REPAIR (FULL-DEPTH, TYPE II)	SQ YD	22.0
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	20.0
FLOOR DRAINS	EACH	8.0
CONCRETE REMOVAL	CU YD	6.8
REINFORCEMENT BARS, EPOXY COATED	POUND	890.0
BAR SPLICERS	EACH	10.0
CONCRETE SUPERSTRUCTURE	CU YD	7.8
PREFORMED JOINT STRIP SEAL	FOOT	100.0
STRUCTURAL REPAIR OF CONCRETE, DEPTH EQUAL TO OR LESS THAN 5"	SQ FT	90.0
H.M.A. SURFACE REMOVAL - BUTT JOINT	SQ YD	347.0
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2½"	SQ YD	652.0
BITUMINOUS MATERIALS (PRIME COAT)	GAL	77.0
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N-50	TON	42.0
HOT-MIX ASPHALT SHOULDERS, 1¾"	SQ YD	350.0
TEMPORARY RAMP	SQ YD	102.0
BRIDGE DECK GROOVING	SQ YD	620

GENERAL NOTES

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

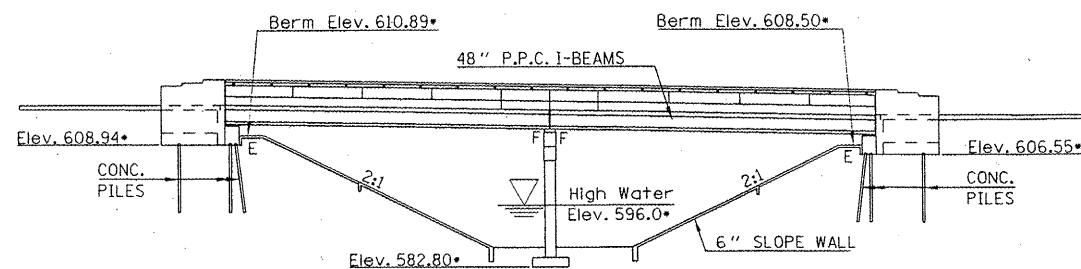
SEE SPECIAL PROVISION "DECK SLAB REPAIR" FOR ADDITIONAL REQUIREMENTS PERTAINING TO DECK SLAB REPAIR.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

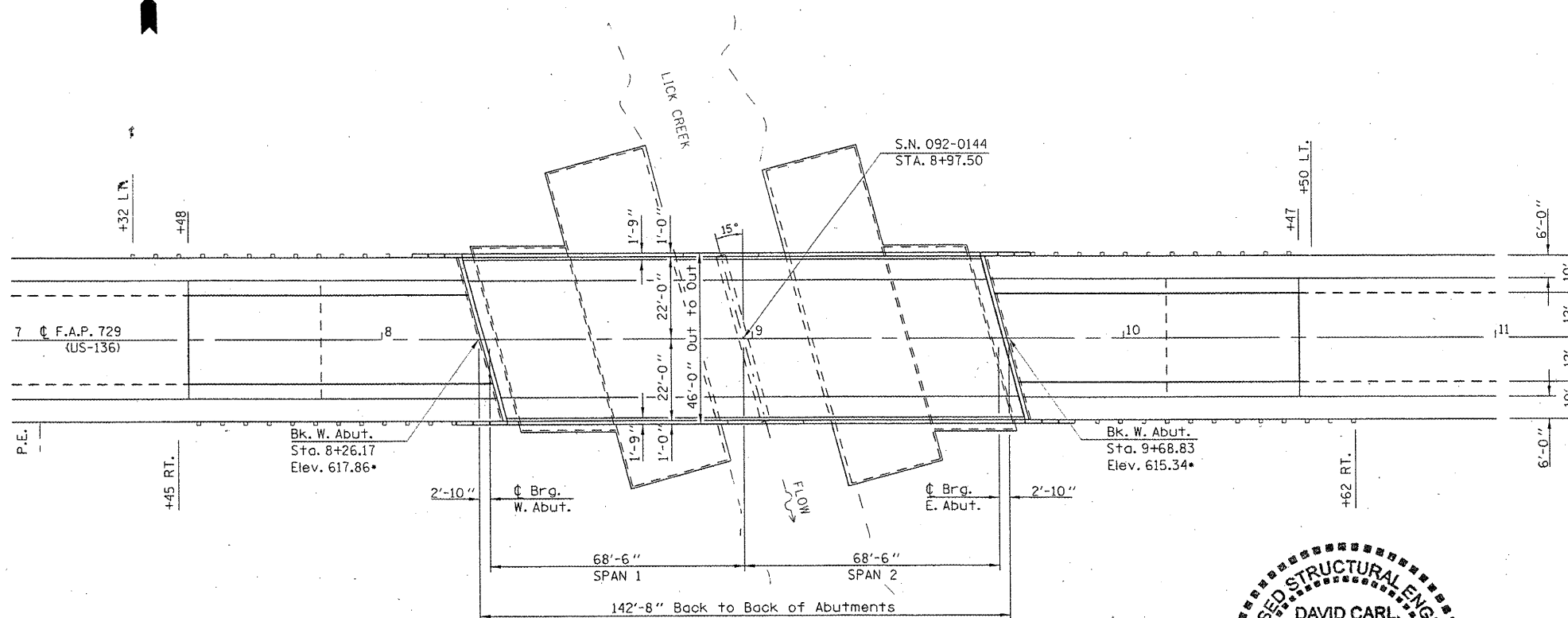
THE CONTRACTOR SHALL USE EXTREME CARE DURING CONCRETE REMOVAL SO AS NOT TO DAMAGE THE P.P.C. I-BEAM.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.



ELEVATION



PLAN

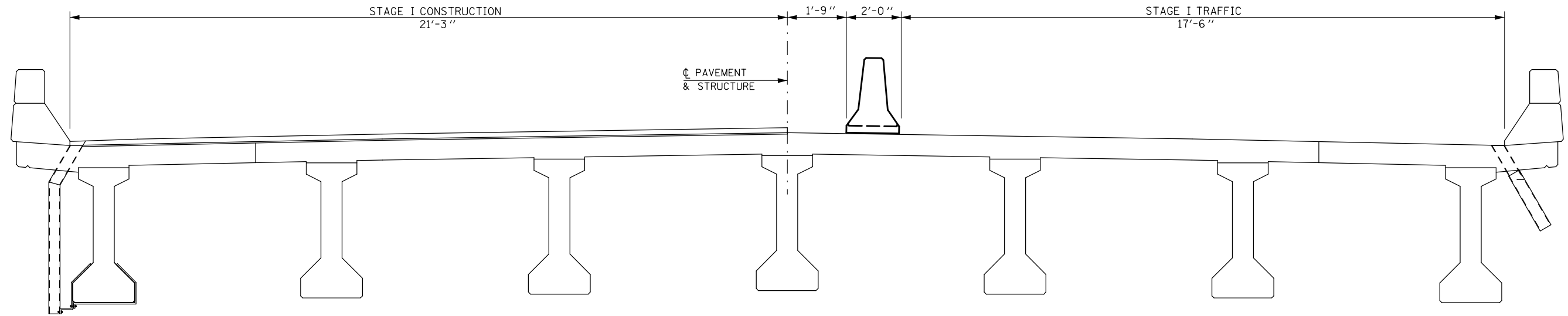


David Carl Puzey 10/4/11
Expires 11/30/12

FILE NAME =	USER NAME = simgm	DESIGNED - GMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION S.N. 092-0144	F.A.P. RTE. = 729	SECTION = 38BR-1	COUNTY = VERMILION	TOTAL SHEETS = 25	SHEET NO. = 4	
CONTRACT NO. = 70596	PROJECT NO. =	DRAWN - GMS	REVISED -			SCALE:	SHEET NO. 1 OF 18 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. = ILLINOIS	FED. AID PROJECT	
		CHECKED - KKC.	REVISED -								
		DATE = 6/14/2011	REVISED -								

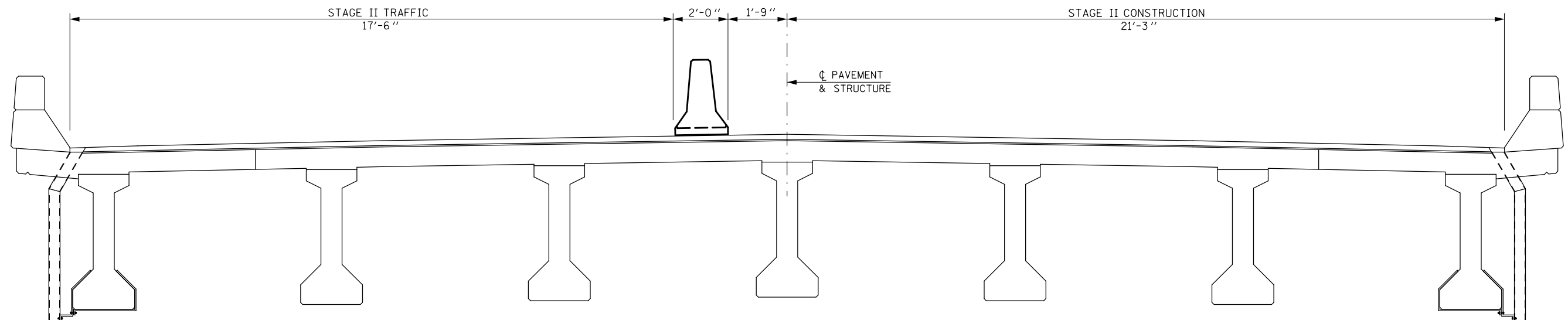
STAGE I

(LOOKING EAST)



STAGE II

(LOOKING EAST)



FILE NAME =	USER NAME = s1msgm	DESIGNED - GMS	REVISED -
et:\pwork\pwork\dot\smgm\08132144\0570596	6-sht-Structure Repair Plans.dgn	DRAWN - GMS	REVISED -
	PLOT SCALE = 40.0001' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/14/2011	DATE -	REVISED -

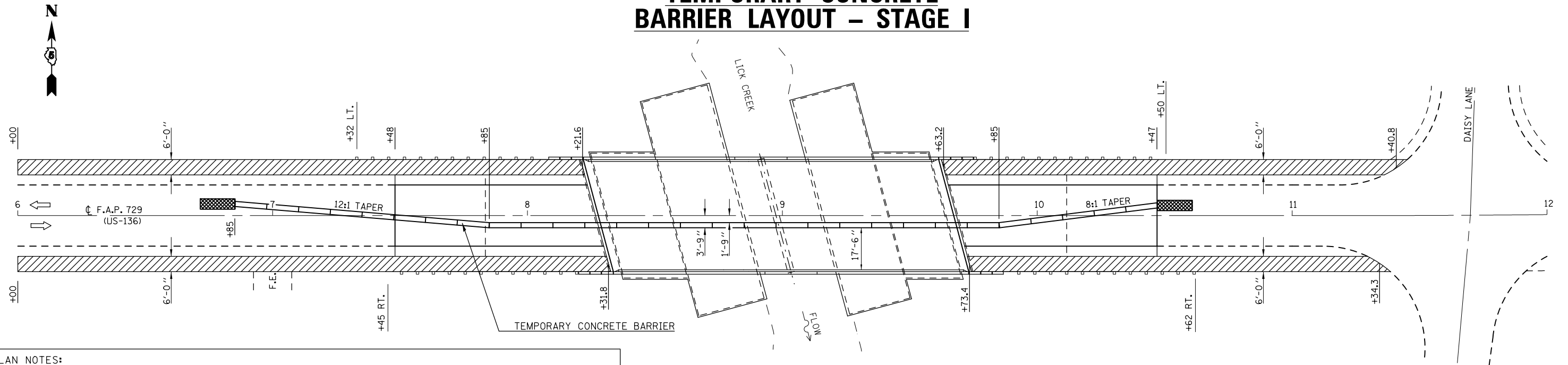
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
S.N. 092-0144

SCALE: SHEET NO. 2 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70596	

TEMPORARY CONCRETE BARRIER LAYOUT - STAGE I



PLAN NOTES:

ALL STAGING DETAILS SET UP IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION 701321.

PRIOR TO BARRIER PLACEMENT TRAFFIC CONTROL SHALL BE SET UP IN ACCORDANCE WITH STANDARD 701201.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE STANDARD 704001.

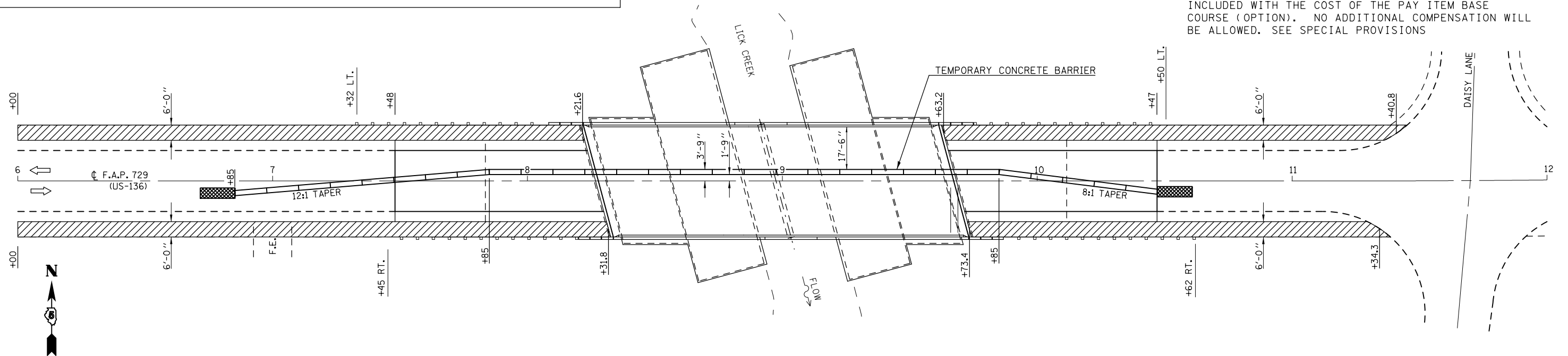
THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO COMMERCIAL AND PRIVATE PROPERTIES ABUTTING THE HIGHWAY BEING IMPROVED IN ACCORDANCE WITH ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS.

REFLECTORS AND VERTICAL PANELS FOR BARRIER WALL, BRIDGE RAIL AND GUARDRAIL SHALL BE INCLUDED IN THE COST FOR THE APPLICABLE TRAFFIC CONTROL PAY ITEMS.

ATTACH VERTICAL PANELS TO THE GUARDRAIL AT 25 FOOT CENTERS. THIS COST WILL BE INCIDENTAL TO STANDARD 701321.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, ALONGSIDE THE WORK AREA, ON BOTH SIDES OF THE WORK AREA FROM STOP BAR TO STOP BAR. ALSO, ANY EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED. COST OF THE REMOVAL OF EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED IN COST FOR APPLICABLE TRAFFIC CONTROL PAY ITEMS.

TEMPORARY CONCRETE BARRIER LAYOUT - STAGE II



SYMBOLS

- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- BASE COURSE (OPTION)

SCHEDULE FOR BASE COURSE (OPTION)*

STA. 6+00.0 LT. TO 8+21.6 LT.	147.7 SQ YD
STA. 9+63.2 LT. TO 11+40.8 LT.	118.4 SQ YD
STA. 6+00.0 RT. TO 8+31.8 RT.	154.6 SQ YD
STA. 9+73.4 RT. TO 11+34.3 RT.	107.3 SQ YD
TOTAL: 528.0 SQ YD	

* EXCAVATION REQUIRED TO PLACE THE BASE COURSE IS INCLUDED WITH THE COST OF THE PAY ITEM BASE COURSE (OPTION). NO ADDITIONAL COMPENSATION WILL BE ALLOWED. SEE SPECIAL PROVISIONS

FILE NAME =	USER NAME = s1msgm	DESIGNED - GMS	REVISED -
ei:\pwork\work\p1dot\msgm\08132144\057056-sht-Structure Repair Plans.dgn		DRAWN - GMS	REVISED -
PLOT SCALE = 40.0001' / in.		CHECKED -	REVISED -
PLOT DATE = 6/14/2011		DATE -	REVISED -

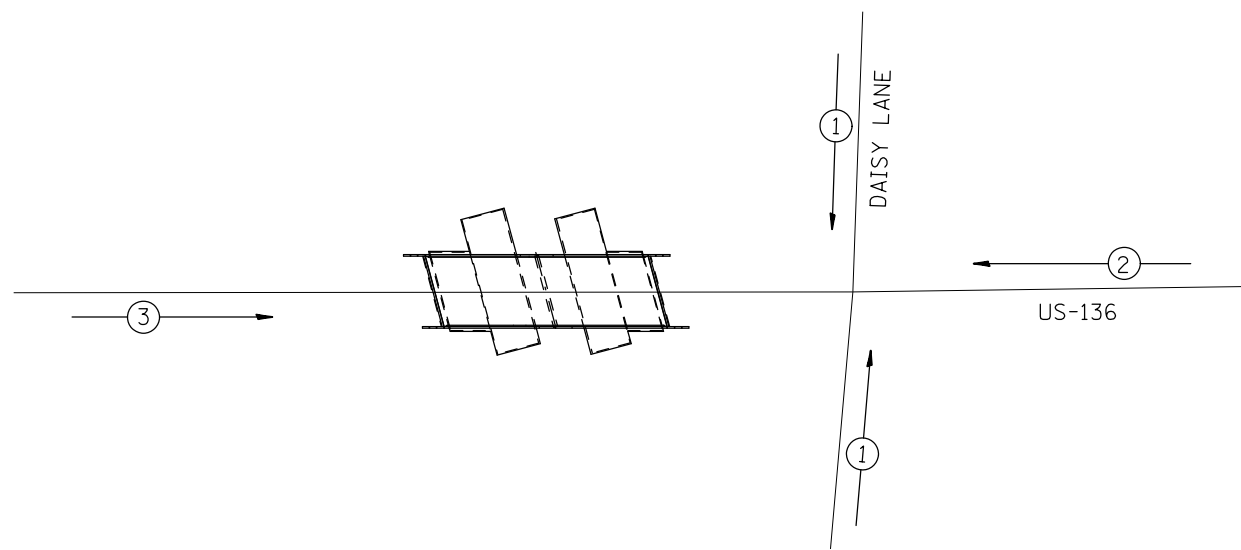
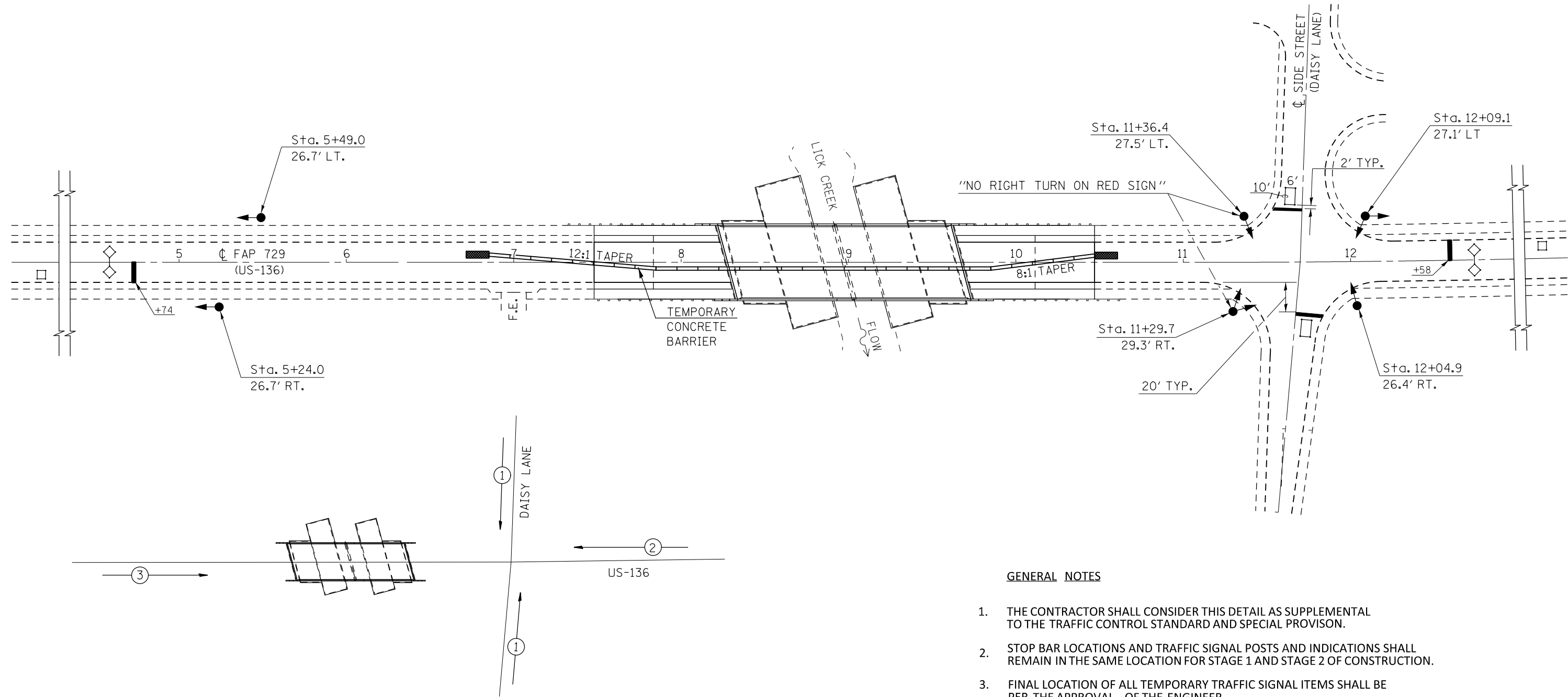
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER LAYOUT
S.N. 092-0144**

SCALE: SHEET NO. 3 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	6
CONTRACT NO. 70596				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TEMPORARY BRIDGE TRAFFIC SIGNAL LAYOUT



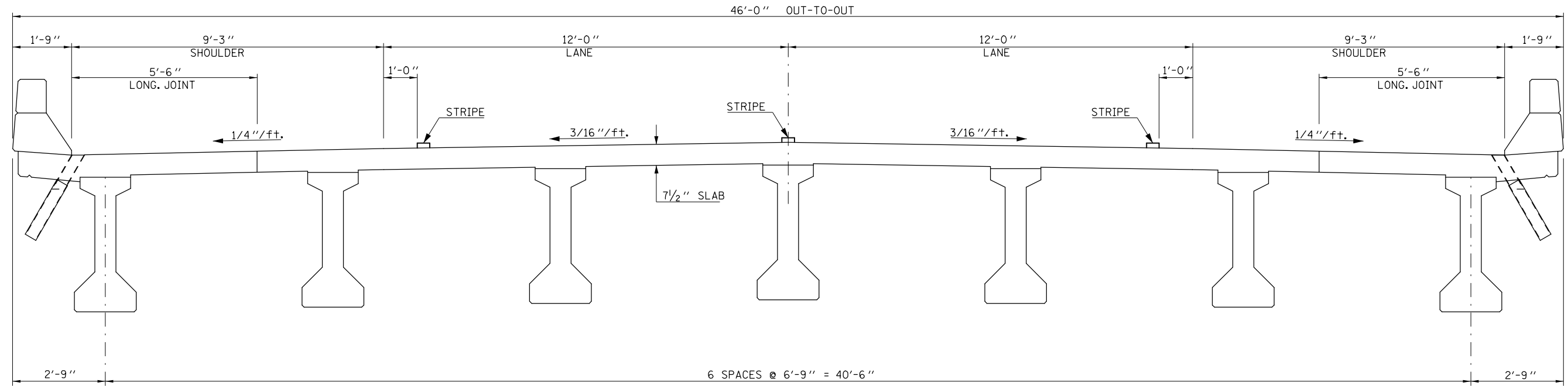
PHASE DESIGNATION DIAGRAM

GENERAL NOTES

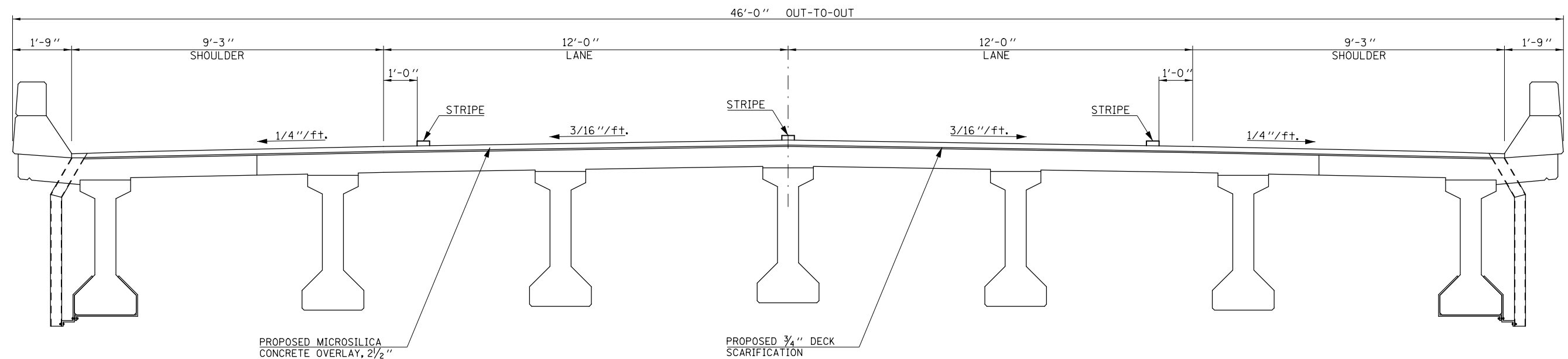
1. THE CONTRACTOR SHALL CONSIDER THIS DETAIL AS SUPPLEMENTAL TO THE TRAFFIC CONTROL STANDARD AND SPECIAL PROVISION.
2. STOP BAR LOCATIONS AND TRAFFIC SIGNAL POSTS AND INDICATIONS SHALL REMAIN IN THE SAME LOCATION FOR STAGE 1 AND STAGE 2 OF CONSTRUCTION.
3. FINAL LOCATION OF ALL TEMPORARY TRAFFIC SIGNAL ITEMS SHALL BE PER THE APPROVAL OF THE ENGINEER.
4. OVERLAP "A" SHALL BE USED TO GENERATE ALL RED CLEARANCE FOR PHASES 1 AND 2. OVERLAP "B" SHALL BE USED TO GENERATE ALL RED CLEARANCE FOR PHASE 3.

FILE NAME =	USER NAME = s1msgm	DESIGNED - RDB	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY BRIDGE TRAFFIC SIGNAL LAYOUT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p1dot\1msgm\0132144\057056-sht-ts.dgn		DRAWN - RDB	REVISED - -		729	38BR-1	VERMILION	25	7			
	PLOT SCALE = 60.0000' / in.	CHECKED -	REVISED - -		CONTRACT NO. 70596			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 6/16/2011	DATE -	REVISED - -		SCALE:	SHEET NO. 4 OF 18 SHEETS	STA. TO	STA.				

EXISTING DECK CROSS SECTION

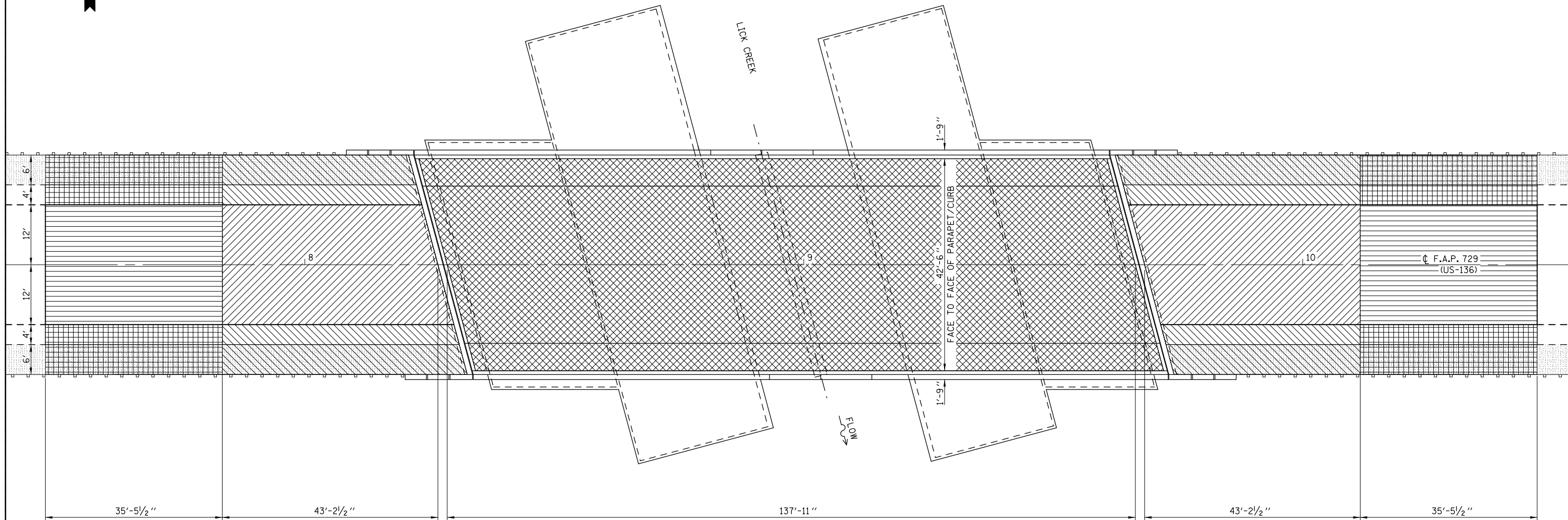


PROPOSED DECK CROSS SECTION



FILE NAME =	USER NAME = s1msgm	DESIGNED - GMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK CROSS SECTIONS S.N. 092-0144	F.A.P. RTE. 729	SECTION 38BR-1	COUNTY VERMILION	TOTAL SHEETS 25	SHEET NO. 8	
et:\pw\work\p1dot\smgsm\d0132144\0570596	6-sh-t-Structure Repair Plans.dgn	DRAWN - GMS	REVISED -			SCALE:	SHEET NO. 5 OF 18 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	PLOT SCALE = 40.0001' / in.	CHECKED -	REVISED -			CONTRACT NO. 70596					
	PLOT DATE = 6/14/2011	DATE -	REVISED -								

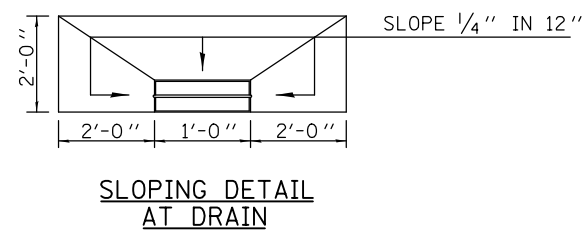
WEARING SURFACE AND OVERLAY PLAN S.N. 092-0144



LEGEND

- BRIDGE DECK SCARIFICATION, 3/4" & BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2 1/2"
- H.M.A. SURFACE REMOVAL, BUTT JOINT & H.M.A. SURFACE COURSE, MIX D, N-50 (196 LB/SQ YD)
- H.M.A. SURFACE REMOVAL, BUTT JOINT & HOT-MIX ASPHALT SHOULDERS, 1 3/4"
- HOT-MIX ASPHALT SURFACE COURSE, MIX D, N-50 (196 LB/SQ YD)
- HOT-MIX ASPHALT SHOULDERS, 1 3/4"
- BASE COURSE (OPTION)*

*SEE SHEET 3 OF 18 FOR SCHEDULE OF BASE COURSE (OPTION)



BILL OF MATERIALS

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	652.0
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	652.0
H.M.A. SURFACE REMOVAL - BUTT JOINT	SQ YD	347.0
BITUMINOUS MATERIALS (PRIME COAT)	GAL	77.0
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N-50	TON	42.0
HOT-MIX ASPHALT SHOULDERS, 1 3/4"	SQ YD	350.0

FILE NAME =	USER NAME = s1msgm	DESIGNED - GMS	REVISED -
ei:\pw\work\p1\dot\smgsm\d0132144\057056	6-sht-Structure Repair Plans.dgn	DRAWN - GMS	REVISED -
	PLOT SCALE = 40.0001' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/14/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEARING SURFACE AND OVERLAY PLAN
S.N. 092-0144**

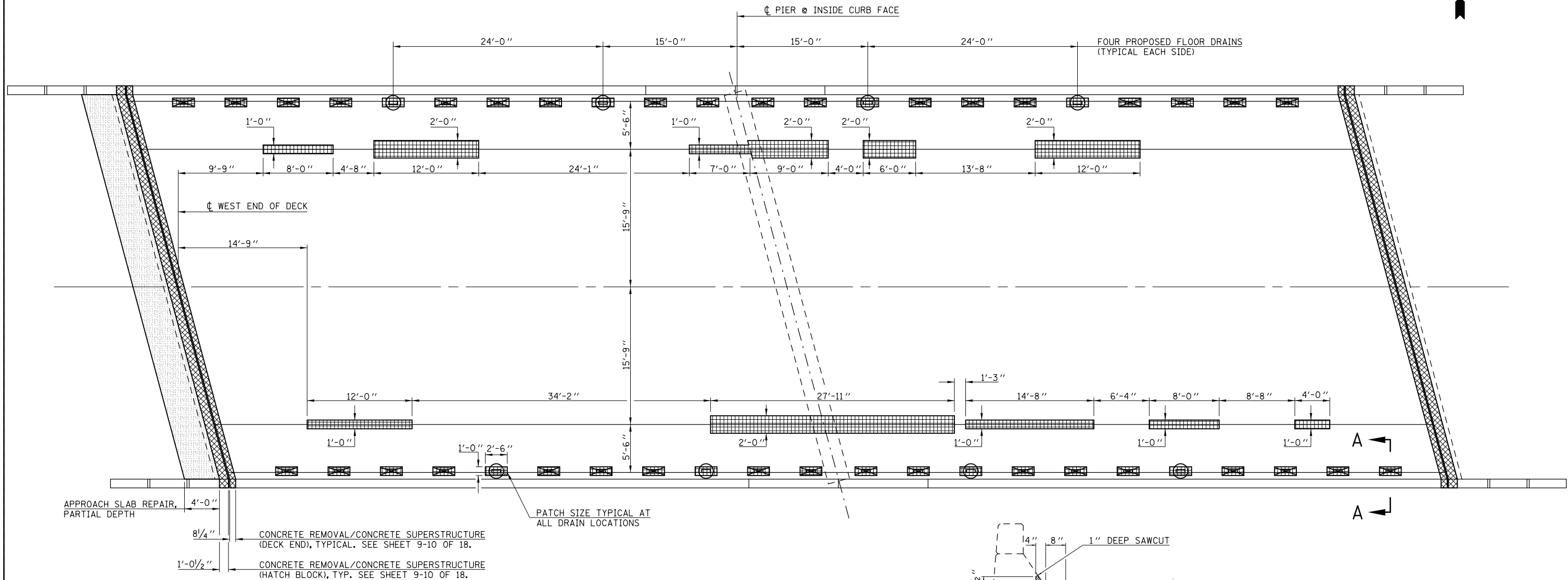
SCALE: SHEET NO. 6 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	9
CONTRACT NO. 70596				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DECK SURVEY PERFORMED ON MARCH 31, 2011. IF MORE THAN ONE WINTER FREEZE-THAW CYCLE OCCURS BETWEEN THE INITIAL INSPECTION AND THE COMMENCEMENT OF WORK, THE FINAL PLAN QUANTITIES FOR DECK REPAIRS MUST BE BASED ON A NEW INSPECTION OF THE DECK.

DECK AND APPROACH SLAB REPAIR PLAN

S.N. 092-0144

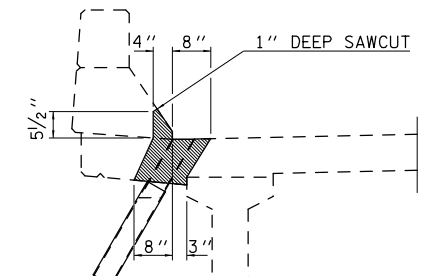


APPROACH SLAB REPAIR, PARTIAL DEPTH 4'-0"

8 1/4" CONCRETE REMOVAL/CONCRETE SUPERSTRUCTURE (DECK END), TYPICAL. SEE SHEET 9-10 OF 18.

1'-0 1/2" CONCRETE REMOVAL/CONCRETE SUPERSTRUCTURE (HATCH BLOCK), TYP. SEE SHEET 9-10 OF 18.

PATCH SIZE TYPICAL AT ALL DRAIN LOCATIONS



SECTION A-A

SHOWING REMOVAL LIMITS FOR DECK SLAB REPAIR (FULL-DEPTH, TYPE I) AT DRAIN LOCATIONS

LEGEND

- ELIMINATE FLOOR DRAIN — SEE SHEET 8 OF 18 FOR DETAILS ASSOCIATED WITH PROPOSED FLOOR DRAINS
- PROPOSED FLOOR DRAIN LOCATION
- DECK SLAB REPAIR (FULL DEPTH, TYPE I & TYPE II)
- CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE
- APPROACH SLAB REPAIR, PARTIAL DEPTH

NOTES:

PATCH SIZES SHOWN REPRESENT CONDITIONS AT THE TIME THE PLANS WERE COMPLETED. THE ACTUAL SIZES AND LOCATIONS OF PATCHING SHALL BE DETERMINED BY THE ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON THIS SHEET.

THE EXISTING DRAINS AND EXTENSIONS SHALL BE REMOVED. COST INCLUDED WITH "DECK SLAB REPAIR (FULL DEPTH, TYPE I)".

EXTREME CARE MUST BE USED WHEN REMOVING CONCRETE NEAR THE TOP FLANGE OF THE P.P.C.I-BEAMS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE BEAMS.

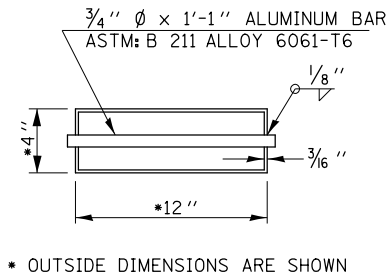
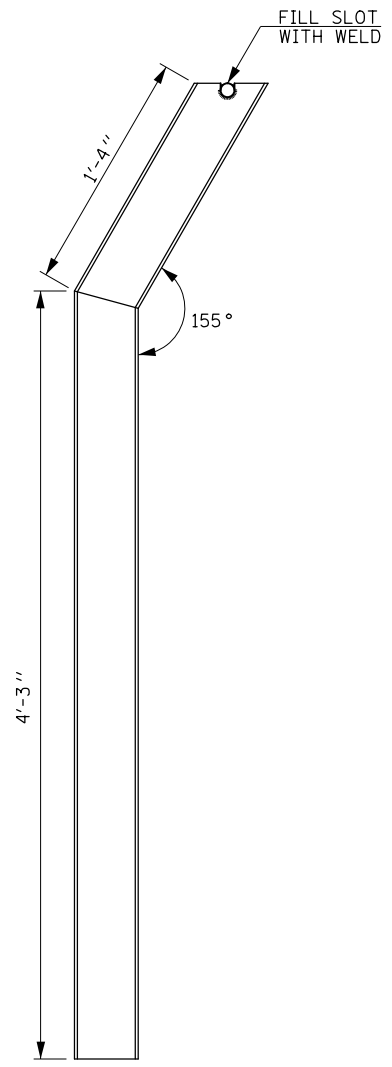
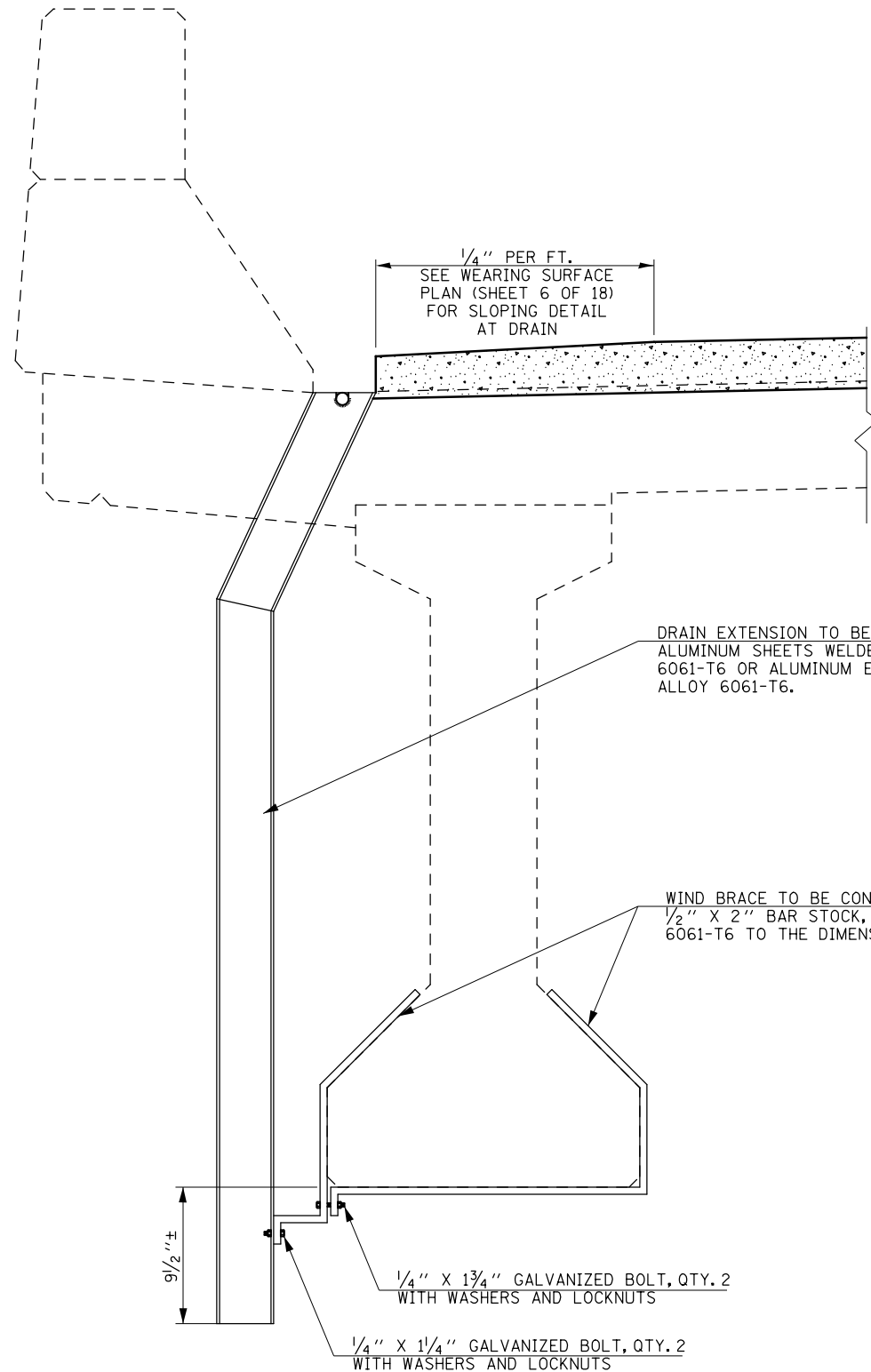
BILL OF MATERIALS

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (FULL DEPTH, TY I)	SQ YD	14.0
DECK SLAB REPAIR (FULL DEPTH, TY II)	SQ YD	22.0
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	20.0

SEE SHEET 9-10 OF 18 FOR CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE QUANTITIES. SEE SHEET 8 OF 18 FOR FLOOR DRAIN QUANTITIES.

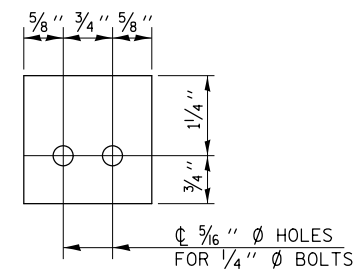
FLOOR DRAIN DETAILS

S.N. 092-0144

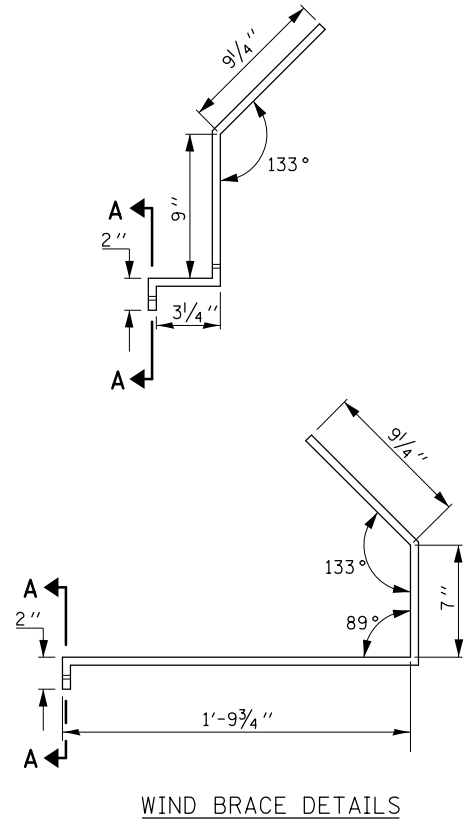


• OUTSIDE DIMENSIONS ARE SHOWN

DRAIN DETAILS



SECTION A-A



WIND BRACE DETAILS

NOTES:

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING OF MATERIALS.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
FLOOR DRAINS	EACH	8.0

COST OF REMOVAL OF EXISTING DRAINS AND EXTENSIONS IS INCLUDED IN DECK SLAB REPAIR (FULL DEPTH, TYPE I). SEE SHEET 7 OF 18.

FILE NAME =	USER NAME = s1msgm	DESIGNED - GMS	REVISED -
et:\pwork\pwork\msgm\0132144\057056	6-sh-t-Structure Repair Plans.dgn	DRAWN - GMS	REVISED -
PLOT SCALE = 40.0001' / in.	CHECKED -	REVISIED -	REVISIED -
PLOT DATE = 6/14/2011	DATE -	REVISIED -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

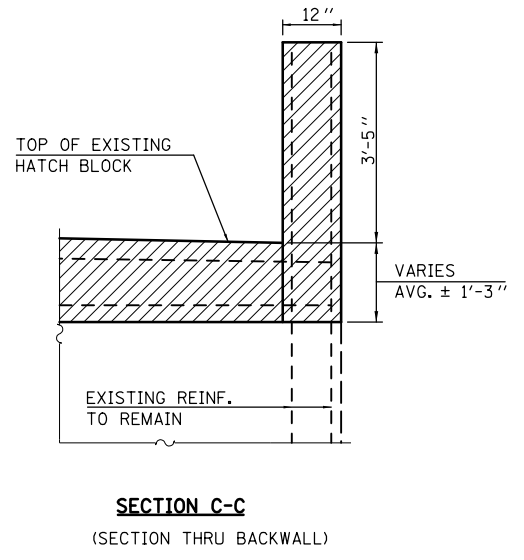
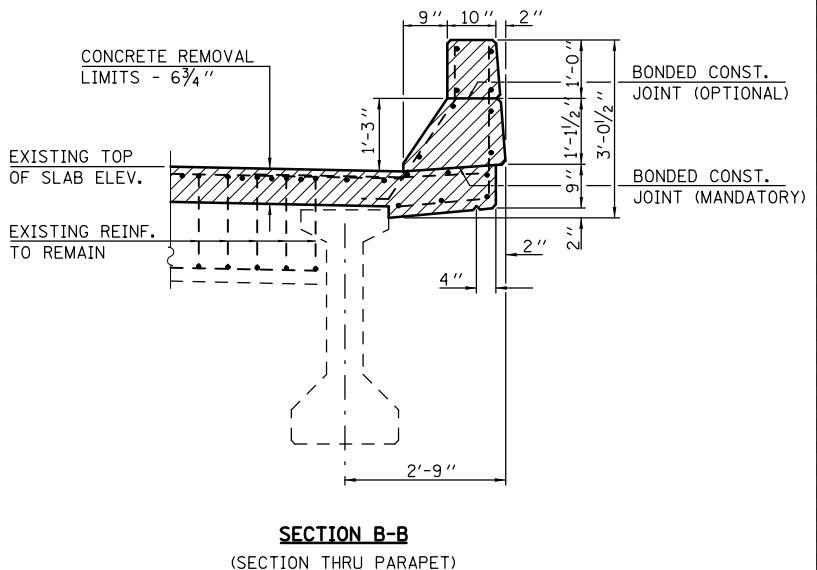
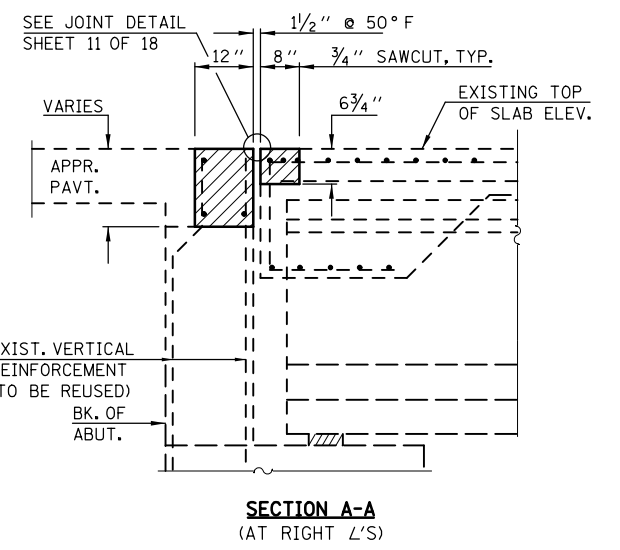
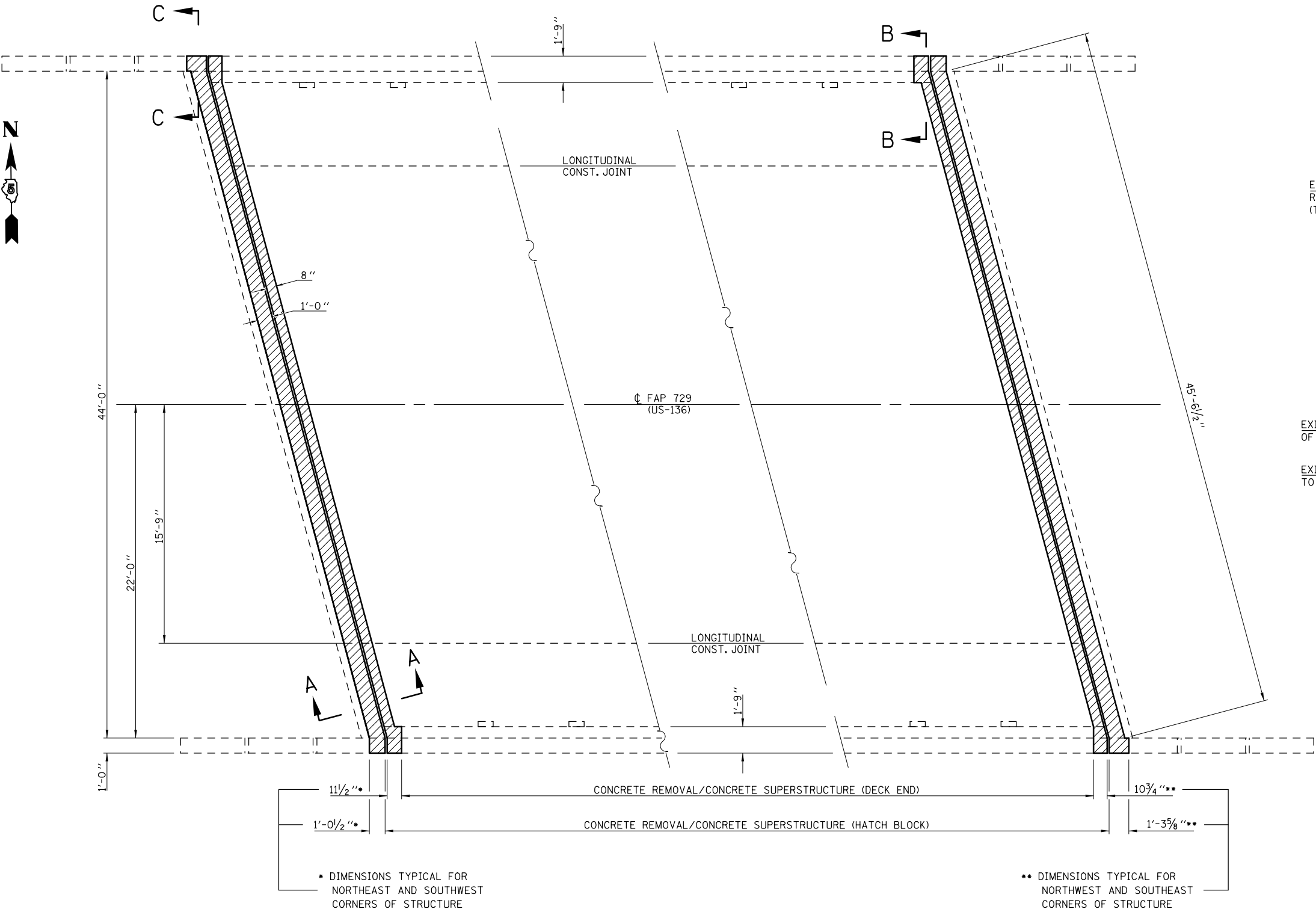
**FLOOR DRAIN DETAILS
S.N. 092-0144**

SCALE: SHEET NO. 8 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	11
CONTRACT NO. 70596				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SLAB REMOVAL DETAILS

S.N. 092-0144



* DIMENSIONS TYPICAL FOR NORTHEAST AND SOUTHWEST CORNERS OF STRUCTURE

** DIMENSIONS TYPICAL FOR NORTHWEST AND SOUTHWEST CORNERS OF STRUCTURE

NOTES:

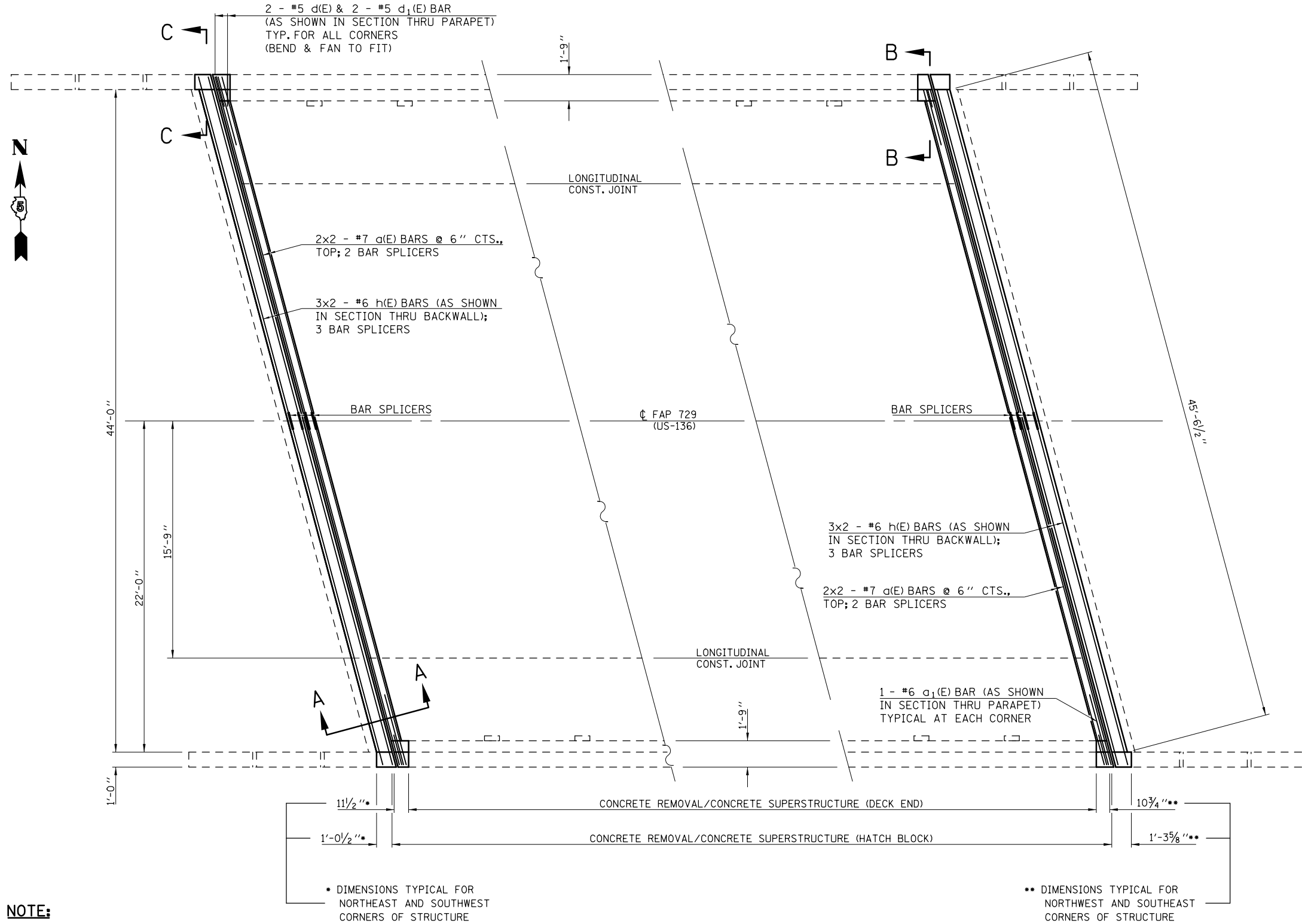
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

THE CONTRACTOR SHALL USE EXTREME CARE DURING CONCRETE REMOVAL SO AS NOT TO DAMAGE THE P.P.C. I-BEAM.

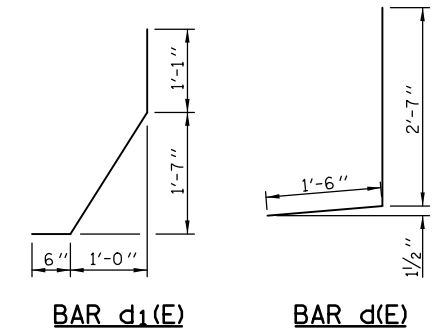
BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	6.8

JOINT REPAIR PLAN S.N. 092-0144



NOTE:
BARS INDICATES THUS 3X2 - ETC.
INDICATES 3 LINES OF BARS WITH
2 LENGTHS PER LINE.



SEE SECTION DETAILS NEXT SHEET.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	8	#7	23'-7"	—
d ₁ (E)	4	#6	4'-0"	—
d(E)	8	#4	4'-1"	┘
d ₁ (E)	8	#5	3'-5"	┘
h(E)	12	#6	23'-7"	—
REINFORCEMENT BARS (EPOXY COATED)			POUND	890.0
CONCRETE SUPERSTRUCTURE			CU YD	7.8
BAR SPLICERS			EACH	10.0
PREFORMED JOINT STRIP SEAL			FOOT	100.0

NOTES

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.

FILE NAME =	USER NAME = s1msgm	DESIGNED - GMS	REVISED -
ei:\pwork\pwork\dot\smgsm\d0132144\057056	6-sh-t-Structure Repair Plans.dgn	DRAWN - GMS	REVISED -
	PLOT SCALE = 40.0001' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/14/2011	DATE -	REVISED -

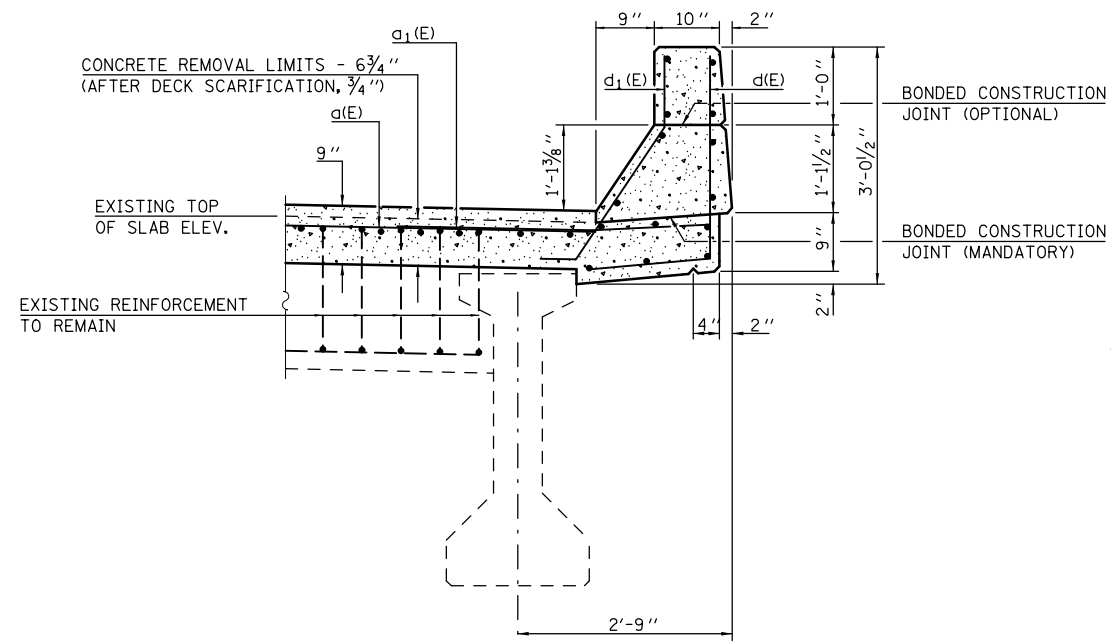
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REPAIR PLAN
S.N. 092-0144**

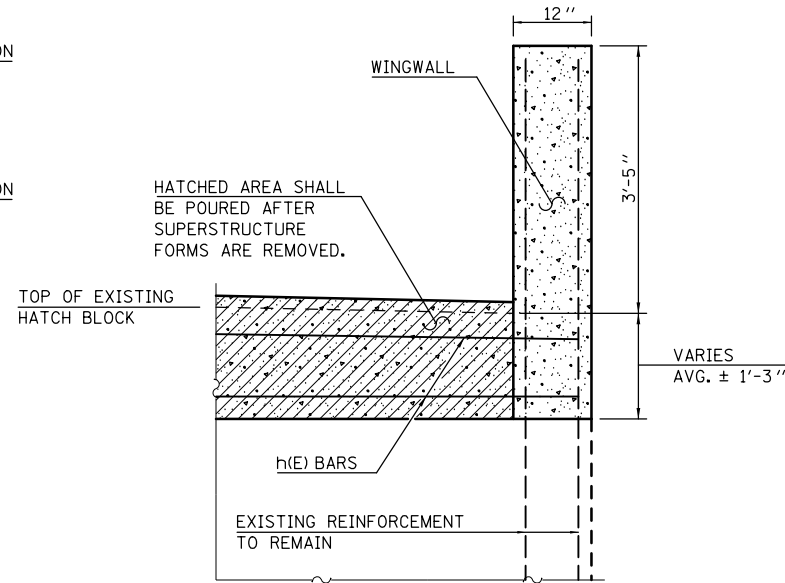
SCALE: SHEET NO. 10 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	13
CONTRACT NO. 70596				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

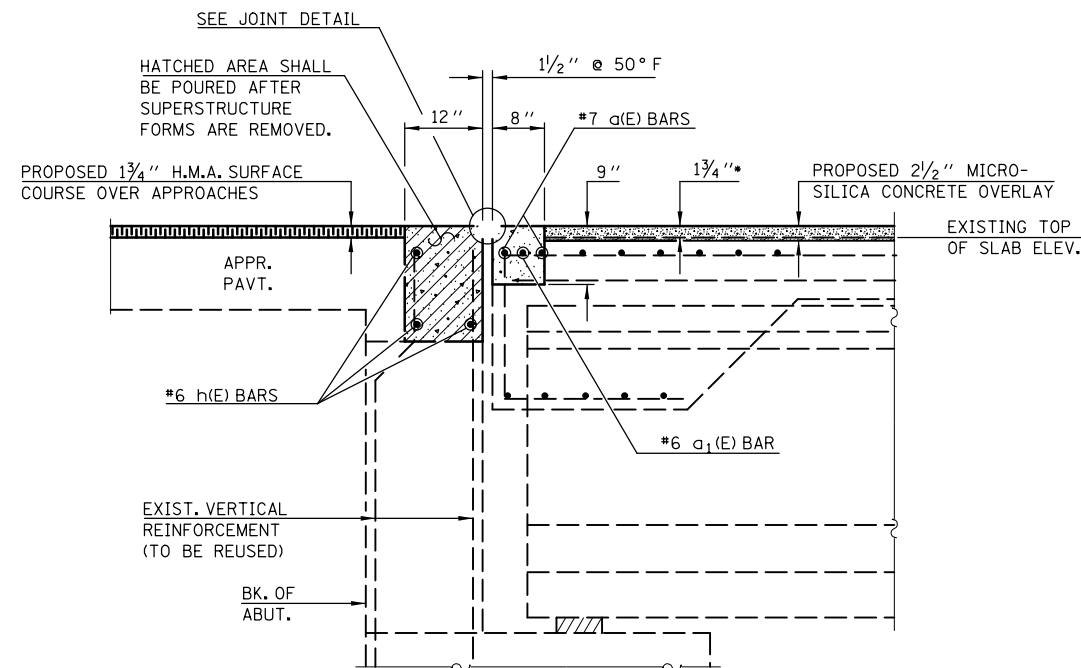
JOINT REPAIR DETAILS S.N. 092-0144



SECTION B-B
(SECTION THRU PARAPET)

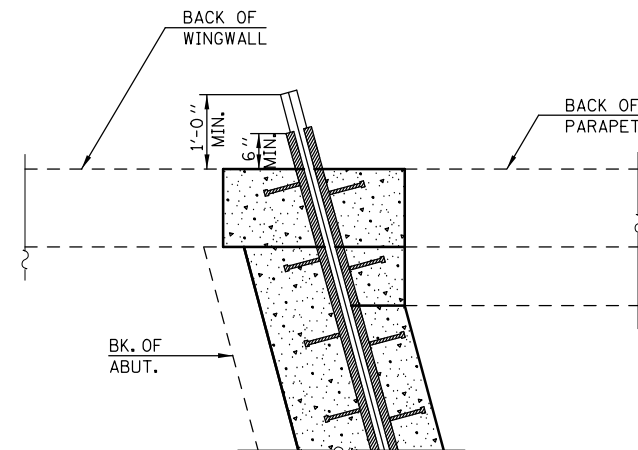


SECTION C-C
(SECTION THRU BACKWALL)

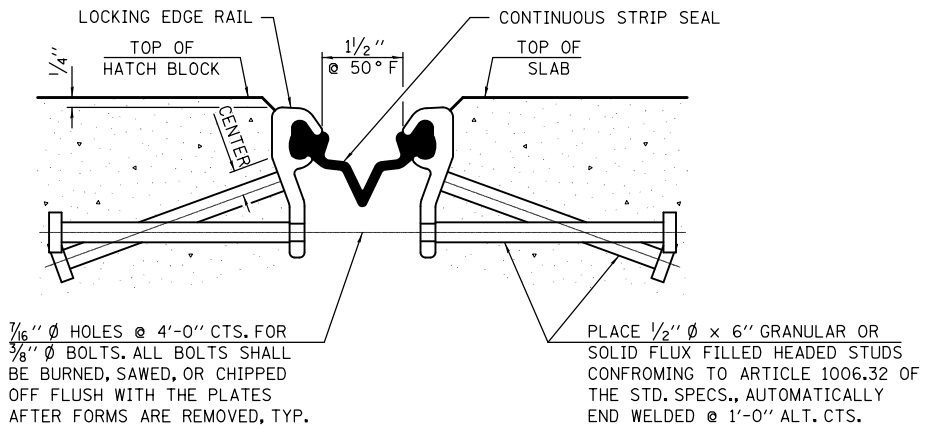


SECTION A-A
(AT RIGHT L'S)

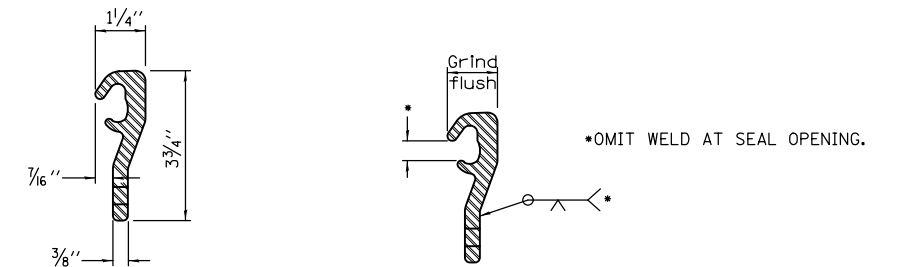
• $1\frac{3}{4}$ " NET SLAB THICKNESS INCREASE AFTER $\frac{3}{4}$ " DECK SCARIFICATION AND $2\frac{1}{2}$ " MICROSILICA CONCRETE OVERLAY.



PLAN VIEW AT PARAPET

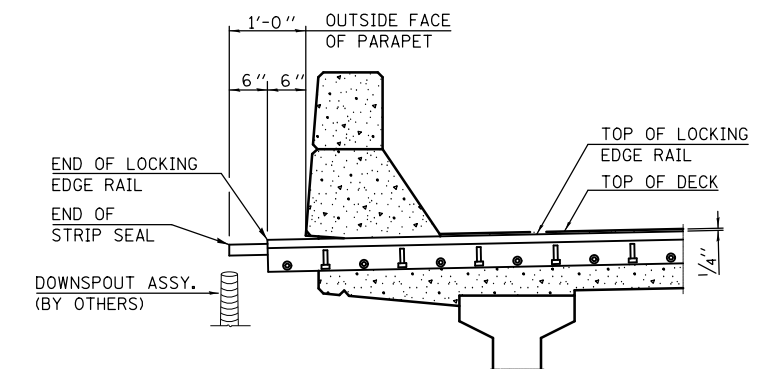


SECTION THRU STRIP SEAL JOINT



LOCKING EDGE RAIL

LOCKING EDGE RAIL SPLICE



SECTION AT PARAPET

NOTES:

THE STRIP SEAL SHALL BE MADE CONTINUOUS AND SHALL HAVE A MINIMUM THICKNESS OF 1/4". THE CONFIGURATION OF THE STRIP SEAL SHALL MATCH THE CONFIGURATION OF THE LOCKING EDGE RAILS. THE GLAND SHALL BE SIZED FOR A MAXIMUM RATED MOVEMENT OF 4".

THE HEIGHT AND THICKNESS OF THE LOCKING EDGE RAILS SHOWN ARE MINIMUM DIMENSIONS. THE ACTUAL CONFIGURATION OF THE LOCKING EDGE RAILS AND MATCHING STRIP SEAL MAY VARY FROM MANUFACTURER TO MANUFACTURER. FLANGED EDGE RAILS WILL NOT BE ALLOWED. THE INSIDE OF THE LOCKING EDGE RAIL GROOVE SHALL BE FREE OF WELD RESIDUE. LOCKING EDGE RAILS MAY BE SPLICED AT SLOPE DISCONTINUITIES AND AT STAGE CONSTRUCTION JOINTS.

THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS SHALL BE FOLLOWED.

ALL STEEL COMPONENTS OF THE PREFORMED JOINT STRIP SEAL SYSTEM SHALL BE GALVANIZED AFTER FABRICATION ACCORDING TO ARTICLE 520.03 OF THE STANDARD SPECIFICATIONS.

FILE NAME =	USER NAME = s1smgm	DESIGNED - GMS	REVISED -
et:\pwork\pwork\dot\smgm\08132144\057056-sht-Structure Repair Plans.dgn		DRAWN - GMS	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

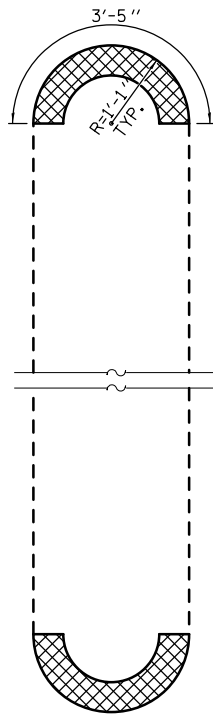
**JOINT REPAIR DETAILS
S.N. 092-0144**

SCALE: SHEET NO. 11 OF 18 SHEETS STA. TO STA.

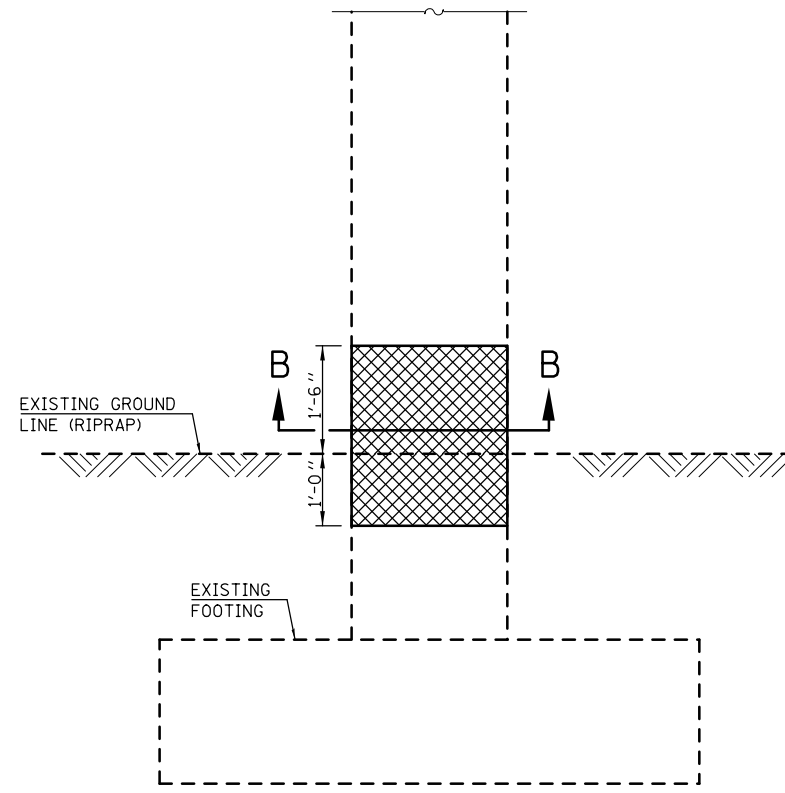
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	14
CONTRACT NO. 70596				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUBSTRUCTURE REPAIR PLAN

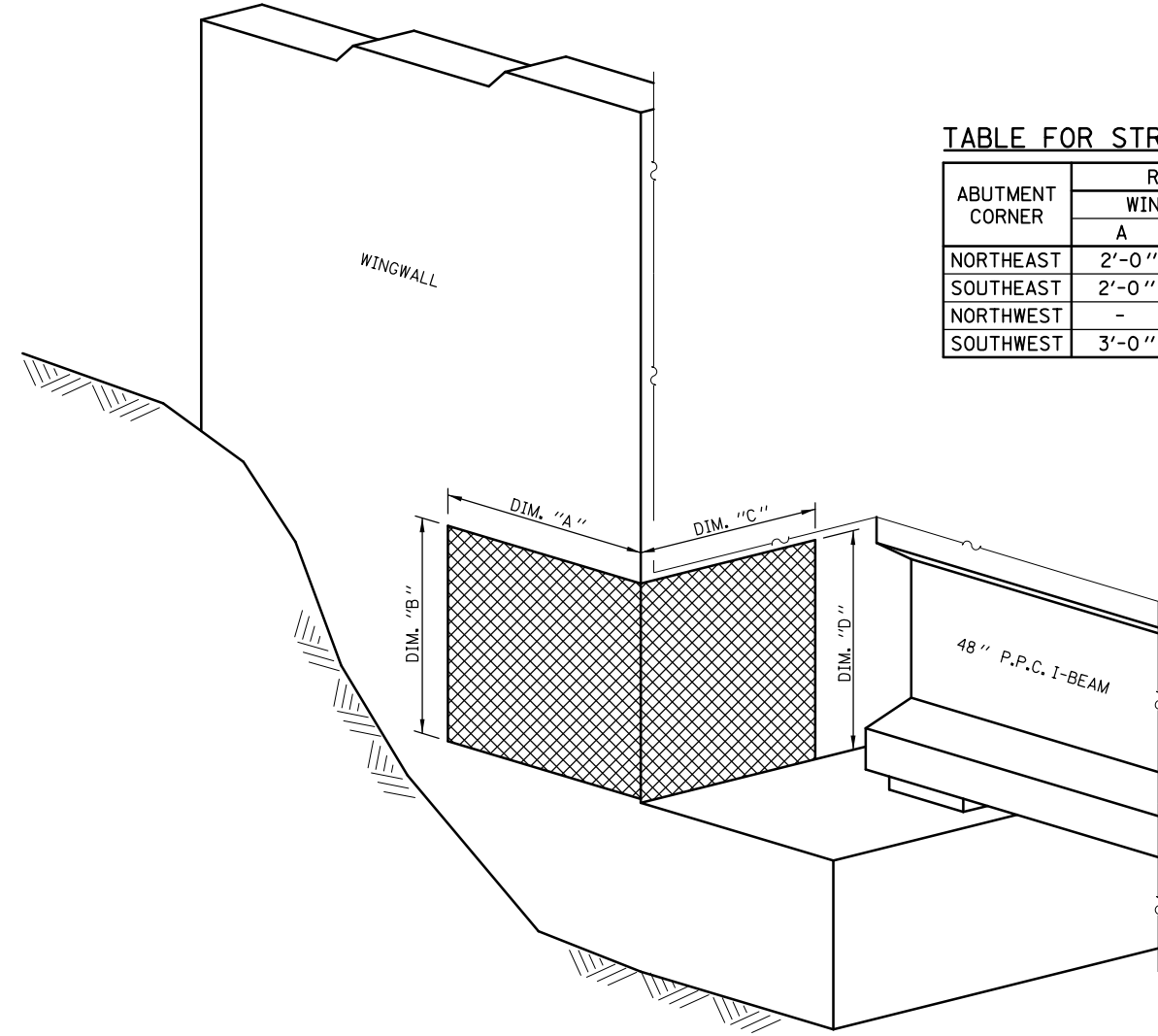
S.N. 092-0144



SECTION B-B



ELEVATION AT PIER



ISOMETRIC VIEW AT ABUTMENT CORNER

TABLE FOR STRUCTURAL REPAIR OF CONCRETE

ABUTMENT CORNER	REPAIR AREA DIMENSIONS				REPAIR AREA SQ. FT.
	WINGWALL		BACKWALL		
	A	B	C	D	
NORTHEAST	2'-0"	4'-3"	2'-6"	4'-3"	19.1
SOUTHEAST	2'-0"	4'-3"	2'-6"	4'-3"	19.1
NORTHWEST	-	-	2'-6"	4'-3"	10.6
SOUTHWEST	3'-0"	4'-3"	2'-6"	4'-3"	23.4

LEGEND

STRUCTURAL REPAIR OF CONCRETE, DEPTH EQUAL TO OR LESS THAN 5"

NOTE:

SEE SPECIAL PROVISION FOR STRUCTURAL REPAIR OF CONCRETE.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE, DEPTH EQUAL TO OR LESS THAN 5"	SQ FT	90.0

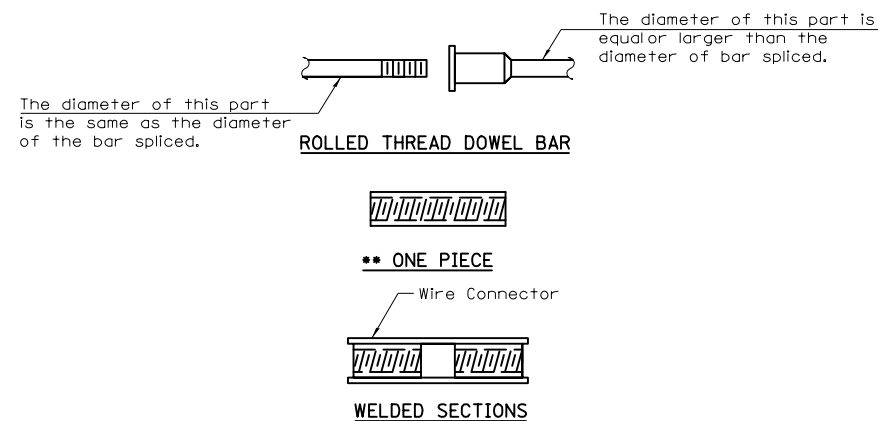
NOTES:

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

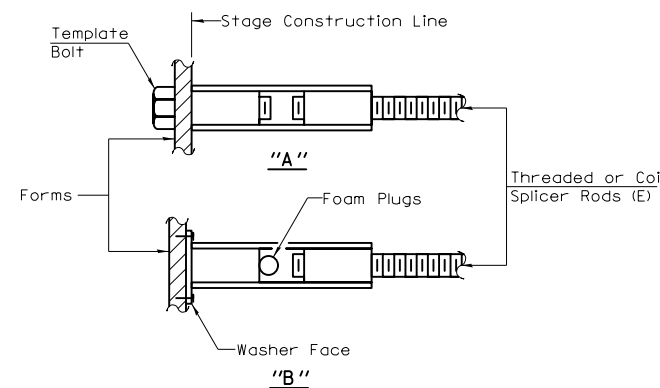
Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



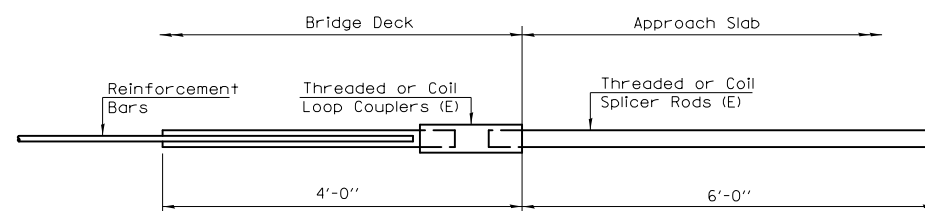
BAR SPLICER ASSEMBLY ALTERNATIVES

•• Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



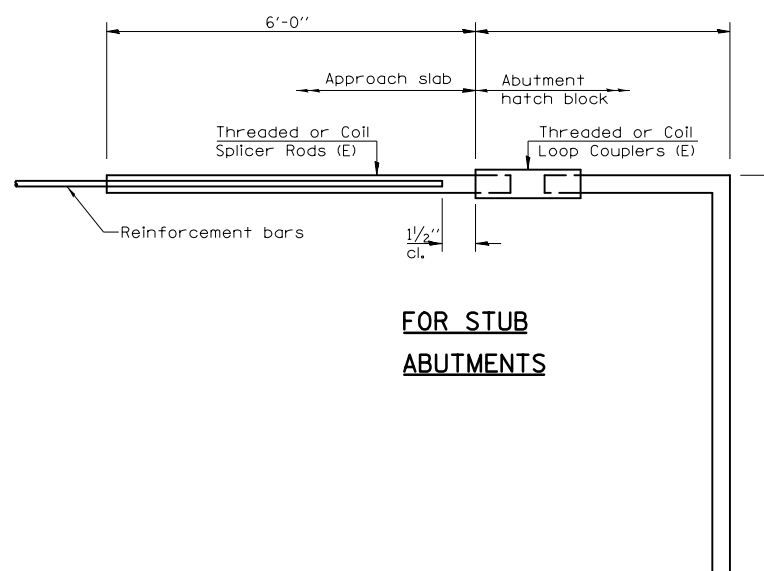
INSTALLATION AND SETTING METHODS

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



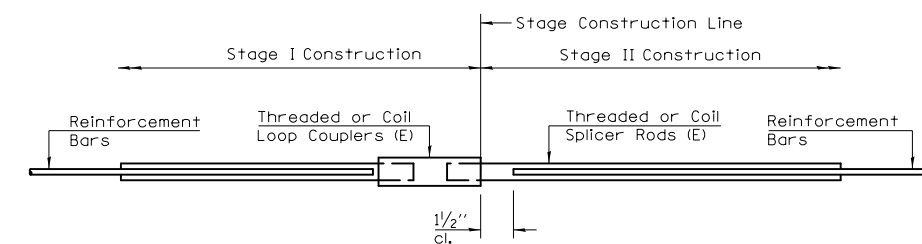
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = N.A.



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = N.A.



STANDARD

Bar Size	No. Assemblies Required	Location
#7	4	DECK ENDS
#6	6	HATCH BLOCKS

**BAR SPLICER ASSEMBLY DETAILS
 STRUCTURE NO. 092-0144**

BSD-1 10-1-08

AS-BUILT PLANS FOR INFORMATION ONLY

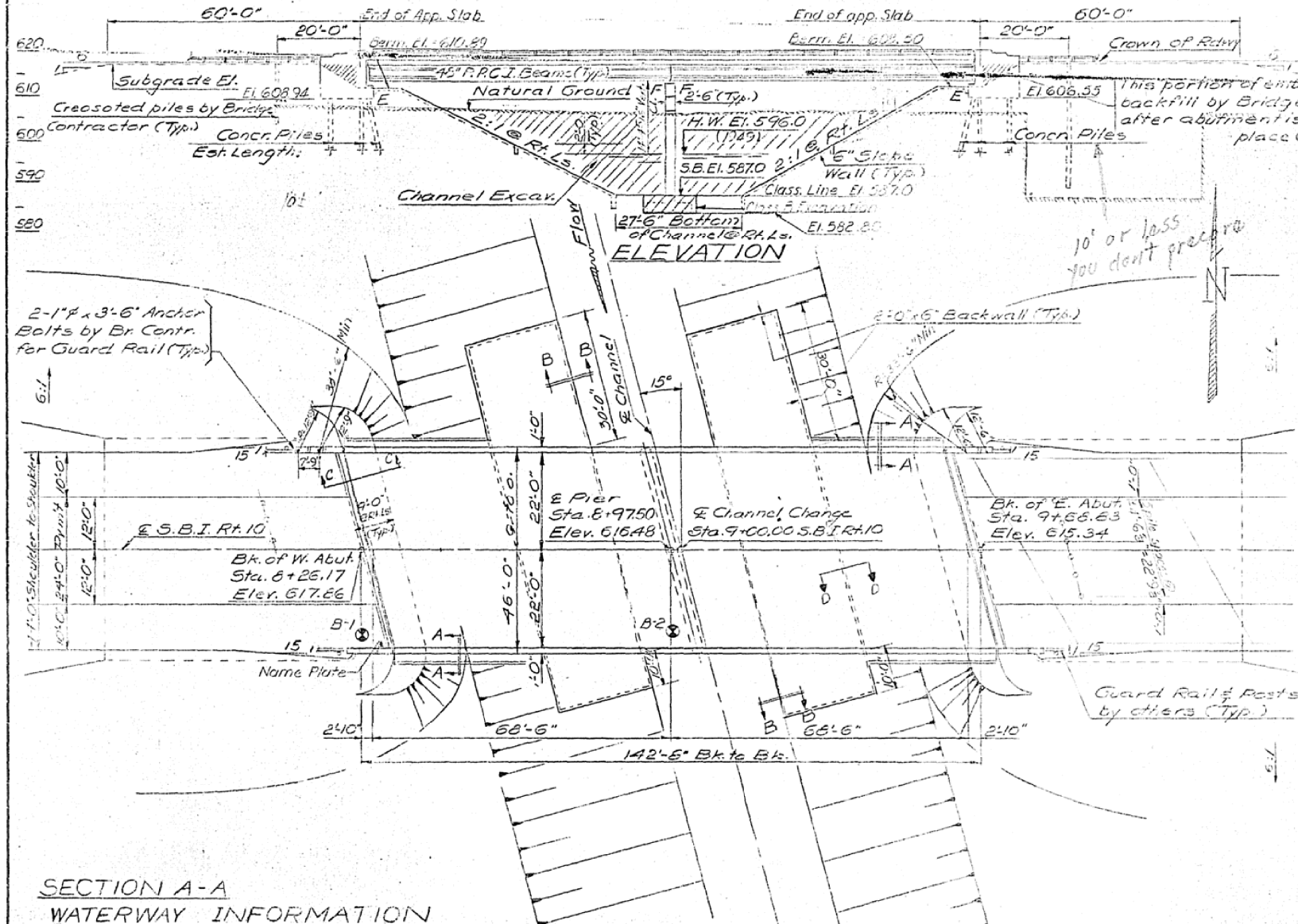
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11	38BR	VERMILION	116	28
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 13 SHEETS

B.M. : 0" in Wing Wall 22' LT. 10+07 Elev. 605.54.

Existing Structure: Concrete deck on Reinf. concrete girders - Reinf. concrete abutments, 38'-6" wide, 39'-3/4" long @ Sta. 9+99 To be removed by Bridge Contractor before new structure is built. No salvage. A temporary structure will not be required.



shouldn't be here
Z. Kowetz
1-9-70

Approach Pile Data
Type - Crossed
Capacity - 20 tons (See 92L. Plans.)
Est. Length - West Abutment 10'
East Abutment 25'
No req'd. - 6 each abutment

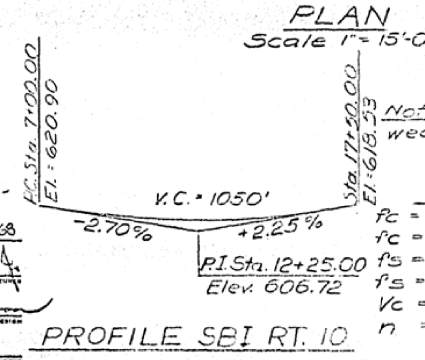
1-9-70
Z. Kowetz
Act. 573.04 (3) REFERS TO MEDIANA THROUGH EMB., BUT Z. KOWETZ OF BR. OFF. SAID HE DON'T REBARE THROUGH 10' or LESS EMB., SO HE NEED NOT FOR THESE APPROX. Perhaps NOTIFIED Ren. Engr.

SECTION A-A
WATERWAY INFORMATION
Drainage Area 6930 Acres
Character: Rolling & Cultivated
Reqd. Opening (30 Yr. Fl.): 380 Sq. Ft.
Present Opening 313 Sq. Ft.
Proposed Opening 380 Sq. Ft.

Ordinary Water Elev. 585.0
Low Water Elev. 585.0
Q = 2300 cfs

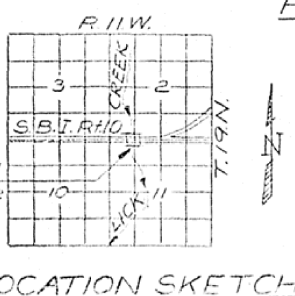
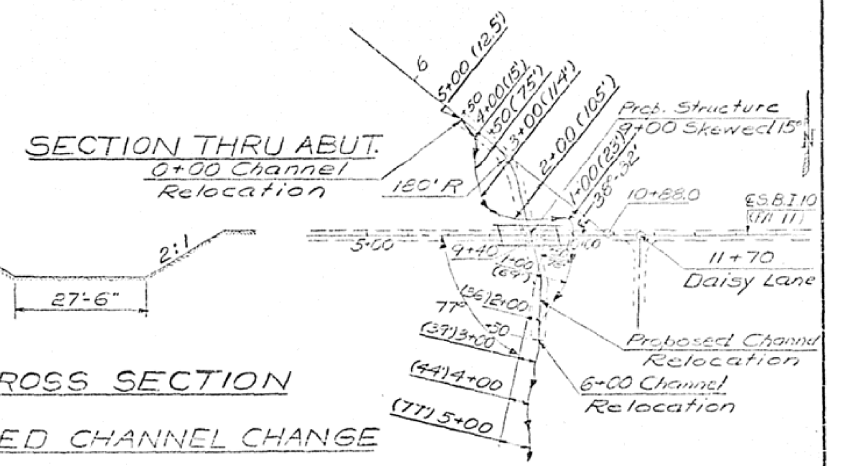
DESIGNED	L. A. Hayyat
CHECKED	[Signature]
DRAWN	[Signature]
CHECKED	[Signature]

EXAMINED	[Signature]	Dec. 12 1968
PASSED	[Signature]	
APPROVED	[Signature]	



FIELD UNITS	PRECAST PRESTRESSED UNITS
$f_c = 1200$ p.s.i. Deck Slab	$f_c = 5000$ p.s.i.
$f_c = 1400$ p.s.i. Curb, Parapet & Sub. fci	$f_c = 4000$ p.s.i.
$f_s = 20,000$ p.s.i. Reinf.	$f_s = 245,000$ p.s.i. (7/8" Strands)
$f_s = 20,000$ p.s.i. Struct.	$f_s = 173,600$ p.s.i. (7/8" Strands) Proposed
$f_c = 75$ p.s.i. Ftgs.	$f_s = 20,000$ p.s.i. Struct.
$n = 10$	

Loading: HS20-44



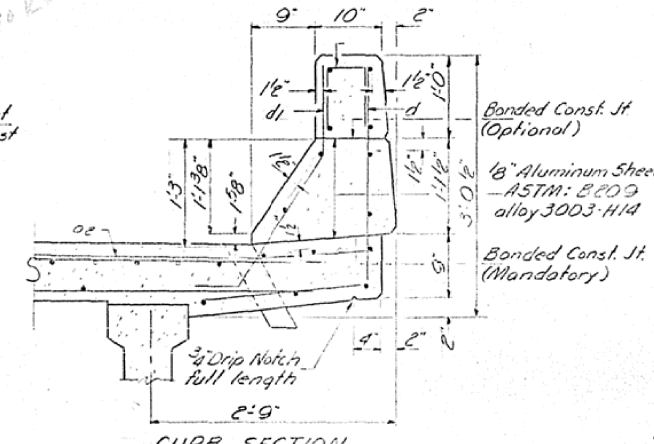
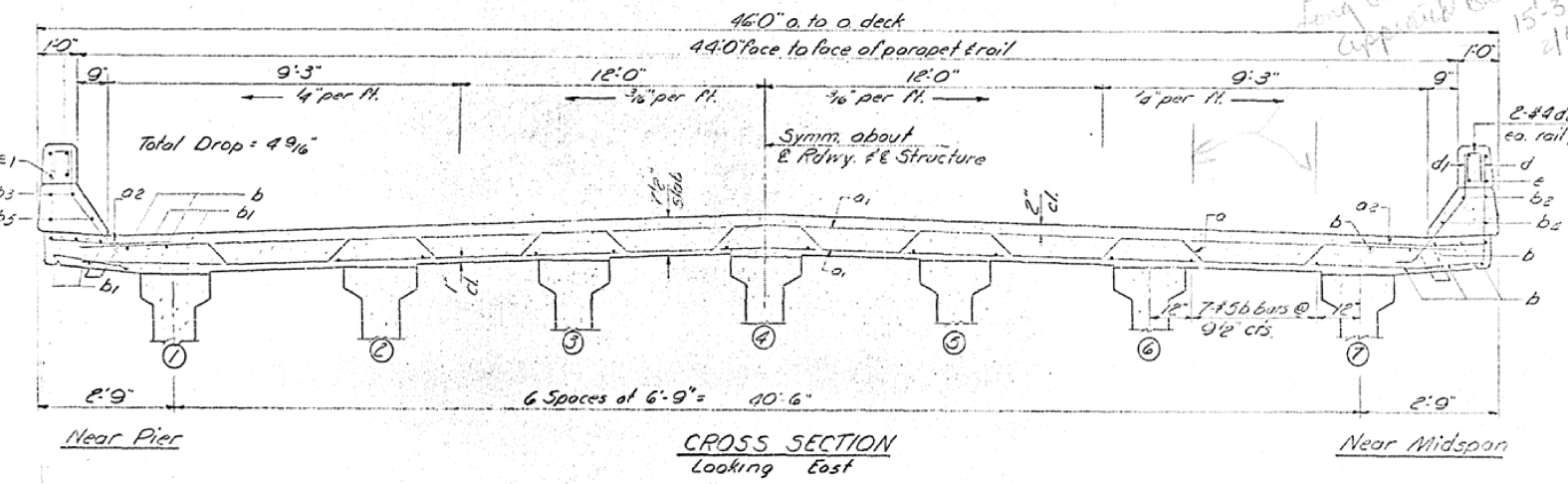
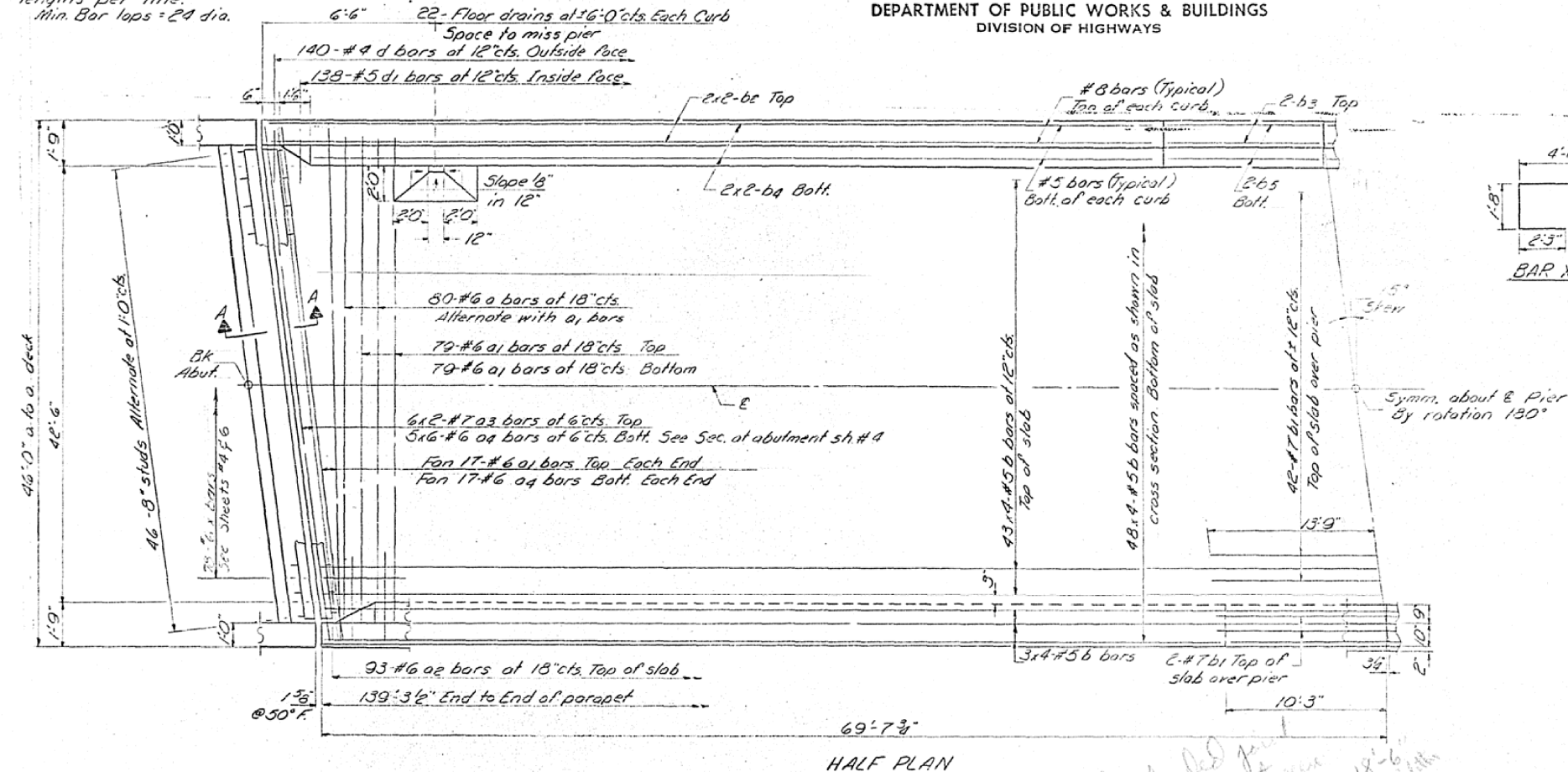
F.A. PROJ F-13 (71)
GENERAL PLAN & ELEVATION
FA RT. 11 - SECTION 38BR
VERMILION COUNTY
STA. 8 + 97.50

AS-BUILT PLANS FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
11	38BR	VERMILION	116	30	13 SHEETS
FED. ROAD DIST. NO. 7		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

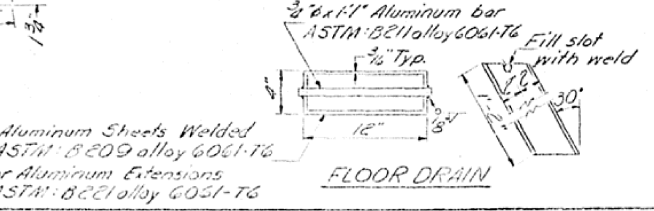
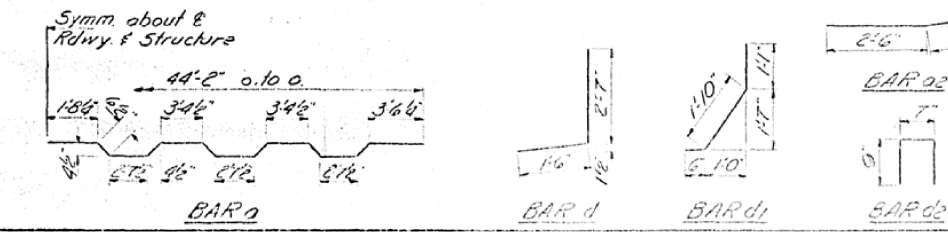
Bar	No.	Size	Length	Shape
a	80	#6	46'-2"	~
a1	226	#6	43'-6"	~
a2	186	#6	4'-0"	~
a3	24	#7	24'-7"	~
a4	60	#6	6'-1"	~
b	388	#5	35'-9"	~
b1	46	#1	27'-6"	~
b2	16	#8	30'-6"	~
b3	8	#8	10'-0"	~
b4	16	#5	30'-3"	~
b5	8	#5	10'-0"	~
d	280	#4	4'-1"	J
d1	276	#5	3'-5"	J
de	72	#4	2'-1"	U
m	72	#4	5'-11"	~
m1	12	#6	4'-9"	~
me	48	#4	4'-11"	~
s	30	#4	11'-4"	~
s1	96	#4	8'-0"	~
x	156	#6	8'-5"	~

Reinforcement Bars Lbs 47480
Structural Steel Lbs 2730
Class X Concrete Cu Yds 210.8
Preformed Jt Seal Lin Ft 90

DESIGNED *A. J. Hayyat*
CHECKED *A. J. Hayyat*
DRAWN *S. C. Lindsey*
CHECKED *A. J. Hayyat*

EXAMINED *A. J. Hayyat*
PASSED *A. J. Hayyat*
APPROVED *A. J. Hayyat*

DEC. 12 1968



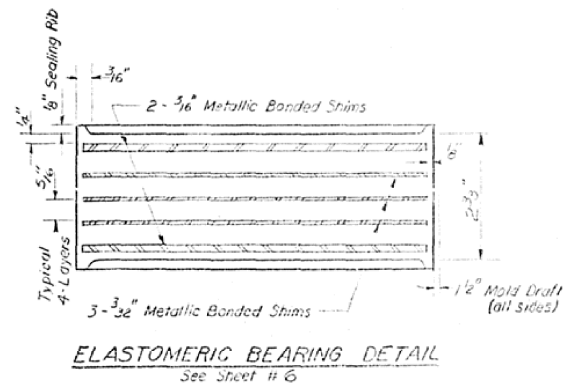
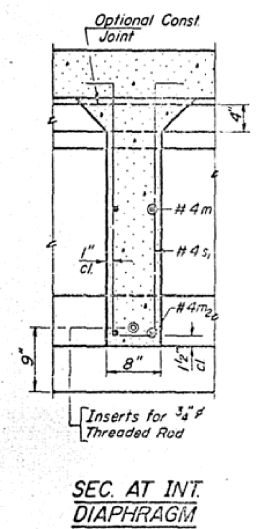
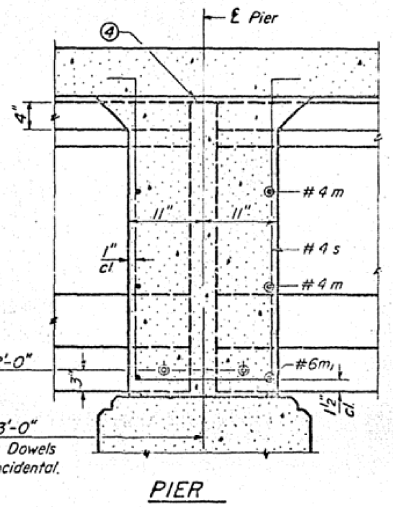
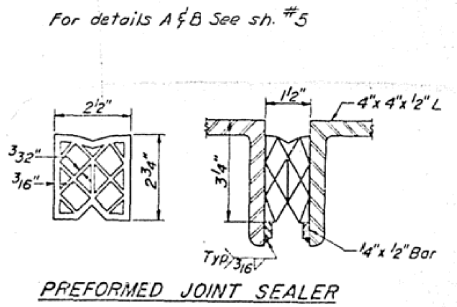
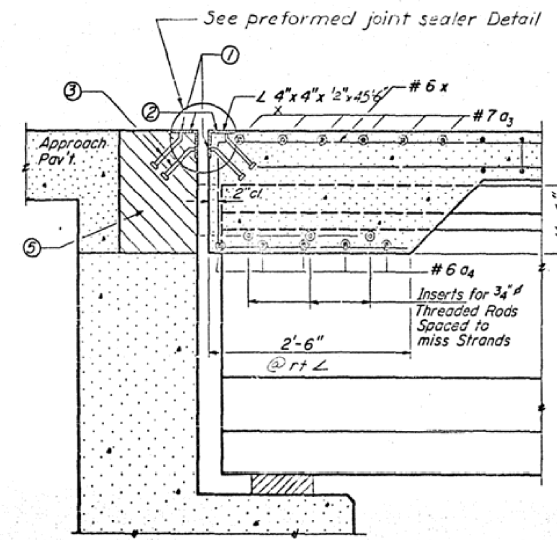
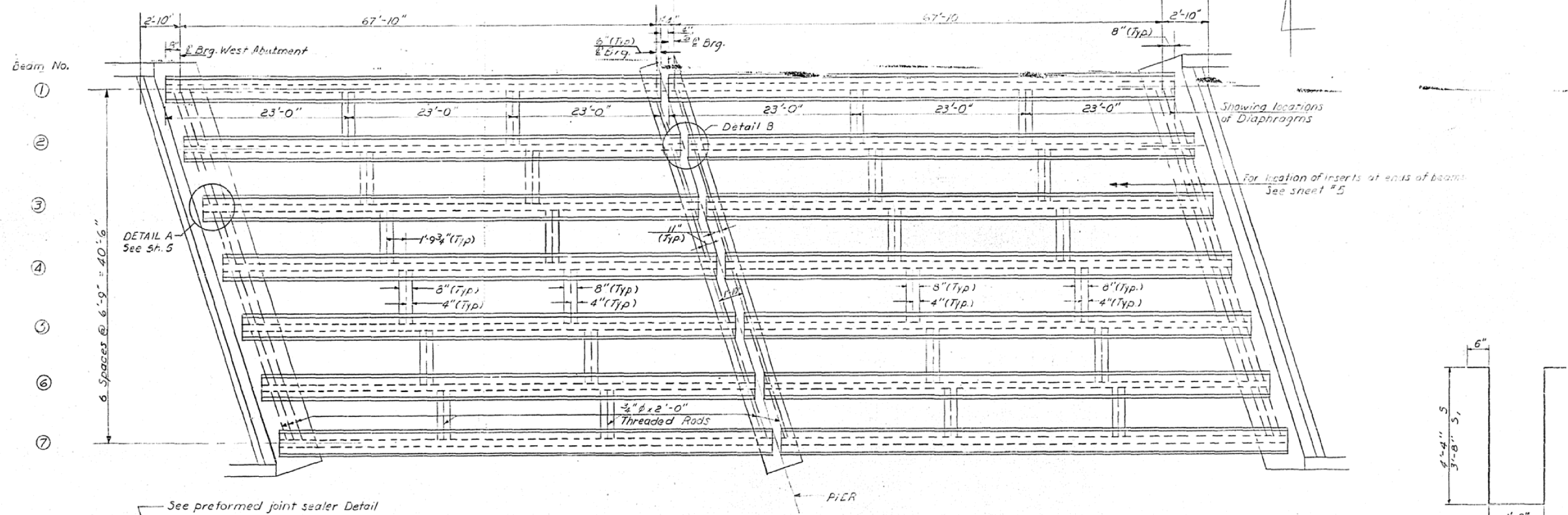
For bars m, m1, m2, s & s1 see
Sheets # 4 & 6.
The lengths and quantities of
longitudinal reinforcement and Class X
Concrete in parapets are not included
in above quantities. See Sh # 7

SUPERSTRUCTURE
FA RT 11 SEC. 38BR
VERMILION COUNTY
STA 8 + 97.50

AS-BUILT PLANS FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11	38BR-1	VERMILION	25	19
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DESIGNED <i>A. V. Khayrat</i>	EXAMINED <i>DEC 12 1963</i>
CHECKED <i>[Signature]</i>	PASSED <i>[Signature]</i>
DRAWN <i>Walter B. Robinson</i>	APPROVED <i>[Signature]</i>
CHECKED <i>[Signature]</i>	

PI-2J 1-27-66

1. 1/8" holes at 12" cts for 3/8" bolts set on normal gage line. All bolts shall be burned, sawed or chipped off flush with the back of angles after forms are removed.
2. 1/8" vent holes at 12" cts set on 1/8" gage line.
3. 3/4" x 8" CR 1020 STL granular or solid flux filled headed studs—automatically end welded. (alternate at 1'-0" cts.)
4. Pour diaphragm flush with top of beam. Concrete in slab above this line shall be placed not less than 45 minutes nor more than 90 minutes after diaphragm has been poured.
5. Hatched area to be poured after Superstructure forms have been removed. Quantity of Class X Concrete included with Superstructure.

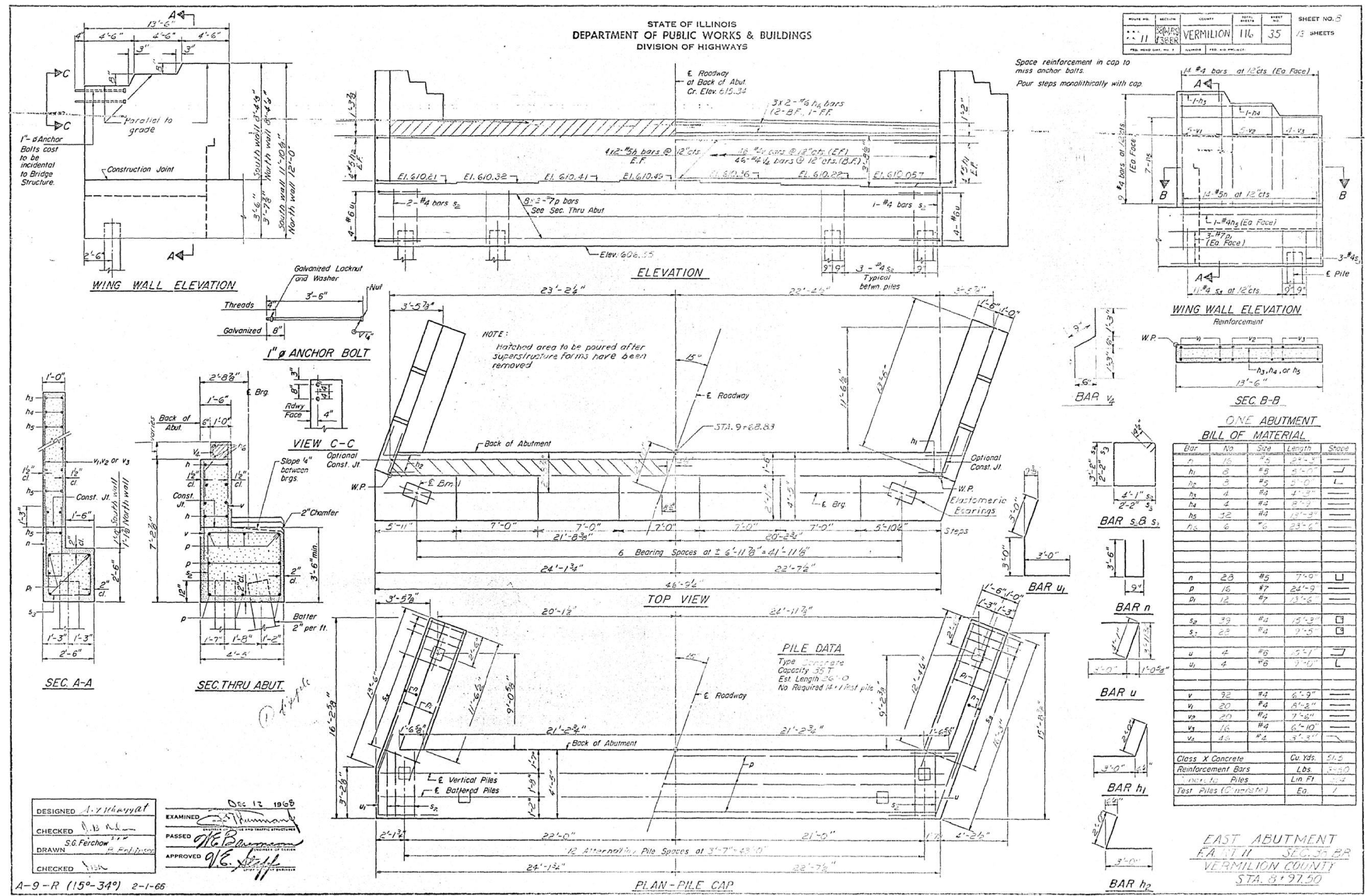
Bars $a_3, a_4; m, m_1, m_2;$
 s, s, s_1 are included in Bill of Material on Sheet #1

FRAMING PLAN
FA RT II SEC 38 BR
VERMILION COUNTY
STA. 8 +97.50

AS-BUILT PLANS FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEETS
11	38BR-1	VERMILION	116	35	13



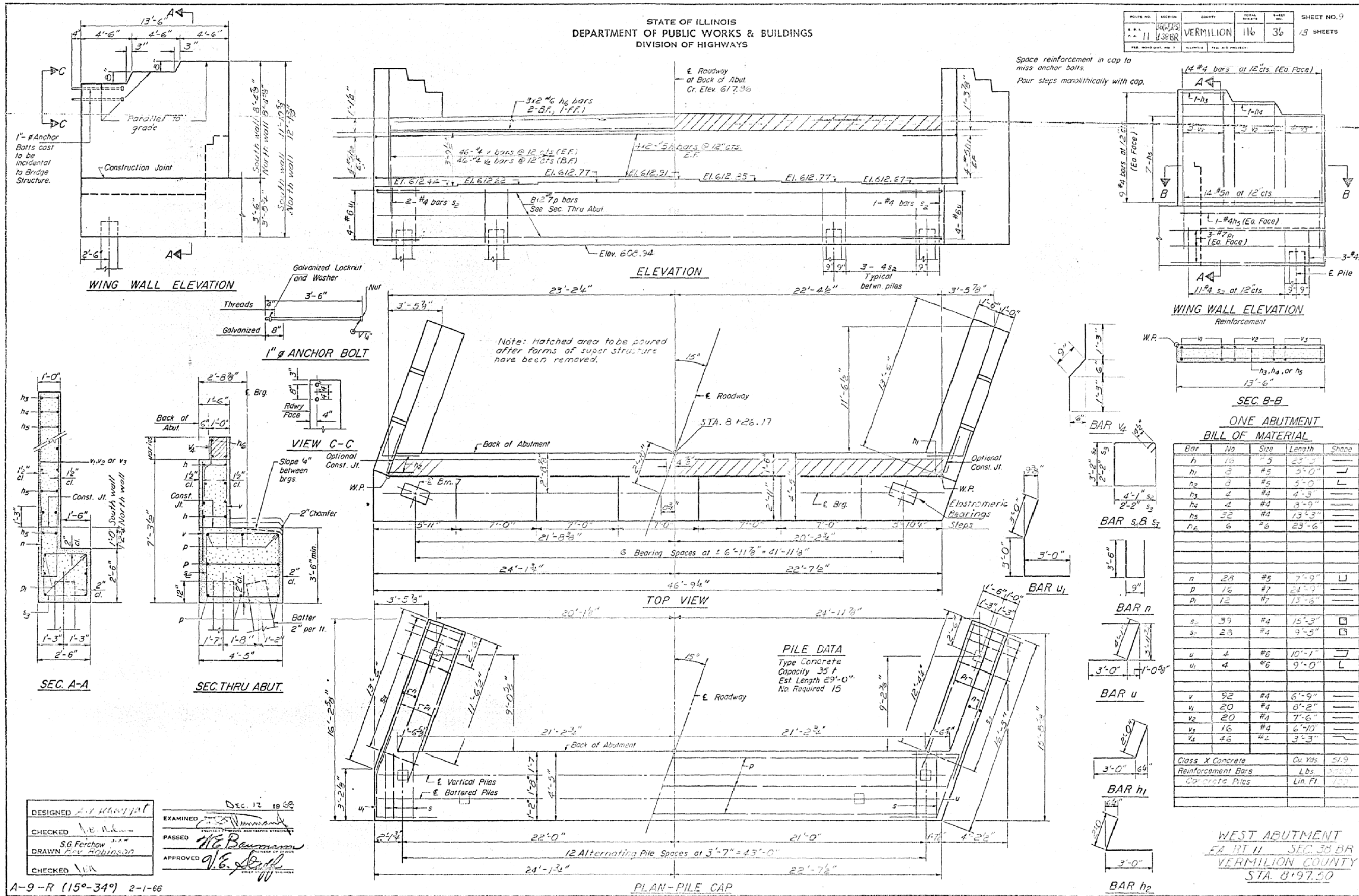
DESIGNED *A. V. Khayat*
 CHECKED *A. B. Nelson*
 DRAWN *S.G. Ferchow*
 EXAMINED *[Signature]*
 PASSED *[Signature]*
 APPROVED *[Signature]*

A-9-R (15°-34°) 2-1-66

AS-BUILT PLANS FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11	38BR	VERMILION	116	36
13 SHEETS				



DESIGNED *[Signature]*
 CHECKED *[Signature]*
 DRAWN *[Signature]*
 CHECKED *[Signature]*

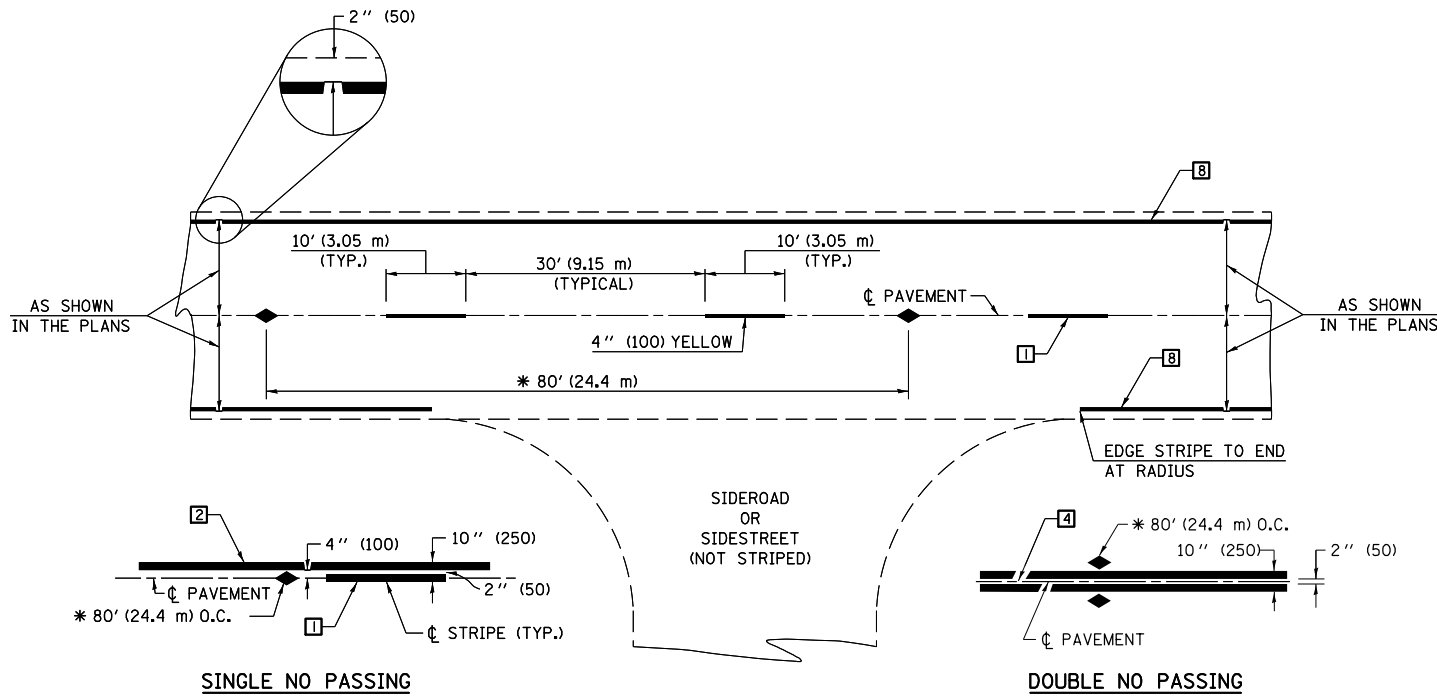
EXAMINED *[Signature]*
 PASSED *[Signature]*
 APPROVED *[Signature]*

DEC 12 1968

**ONE ABUTMENT
BILL OF MATERIAL**

Bar	No	Size	Length	Shape
h	10	#5	23'-3"	—
h1	3	#5	5'-0"	—
h2	3	#5	5'-0"	L
h3	2	#4	4'-3"	—
h4	2	#4	8'-9"	—
h5	32	#4	13'-3"	—
h6	6	#6	23'-6"	—
n	28	#5	7'-9"	U
p	16	#7	24'-3"	—
p1	12	#7	13'-6"	—
s2	39	#4	15'-3"	□
s1	23	#4	9'-5"	□
u	4	#6	10'-1"	—
u1	4	#6	9'-0"	L
v	92	#4	6'-9"	—
v1	20	#4	8'-2"	—
v2	20	#4	7'-6"	—
v3	16	#4	6'-10"	—
v4	46	#4	3'-3"	—
Class X Concrete			Cu Yds	51.9
Reinforcement Bars			Lbs	3200
Concrete Piles			Lin Ft	120

WEST ABUTMENT
FA RT II SEC. 38 BR
VERMILION COUNTY
STA. 8+97.50



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

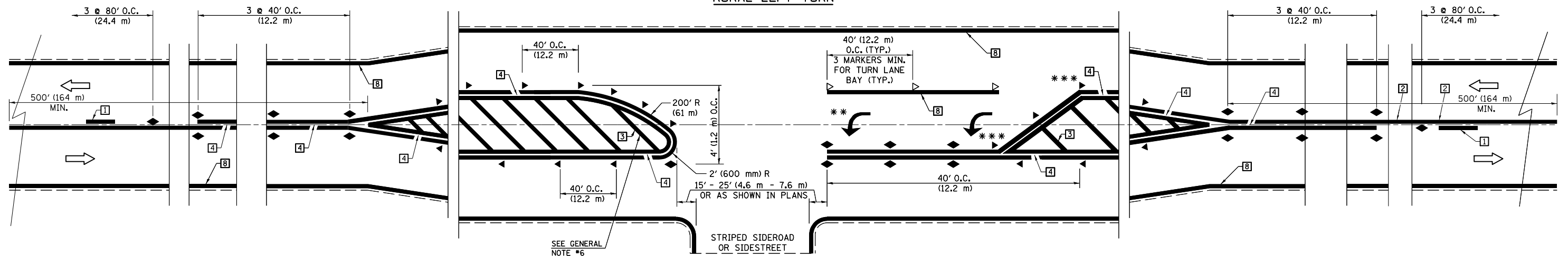
TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAA

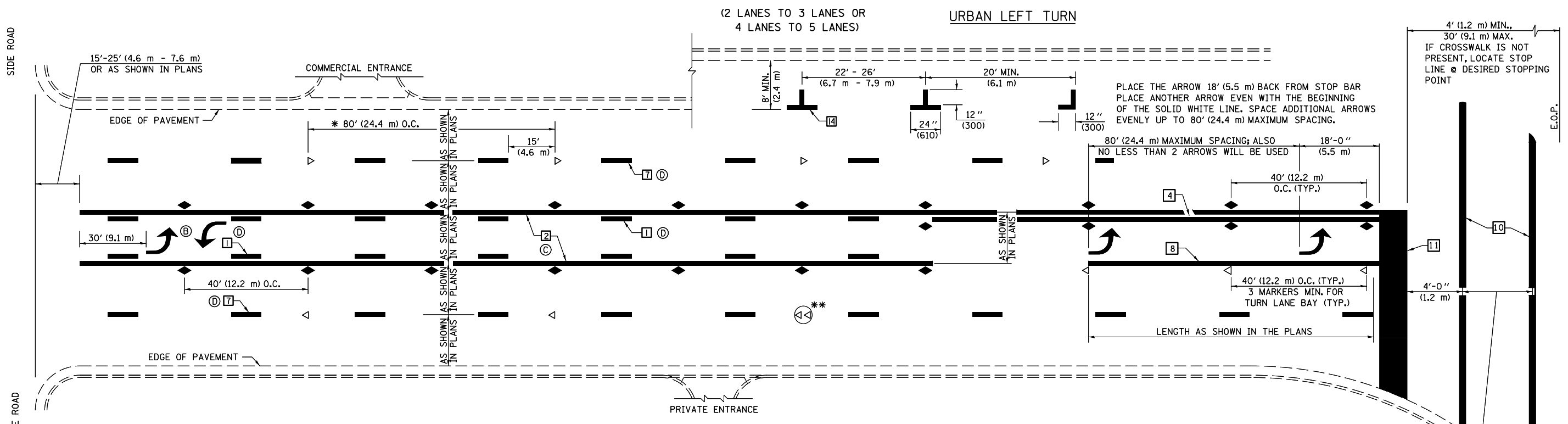
FILE NAME =	USER NAME = s1msgm	DESIGNED -	REVISED - 11/06
et:\pwork\pwork\dot\smgsm\d0132144\057056-sht-Structure Repair Plans.dgn		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 48.0001" / in.	CHECKED -	REVISED -
	PLOT DATE = 6/14/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

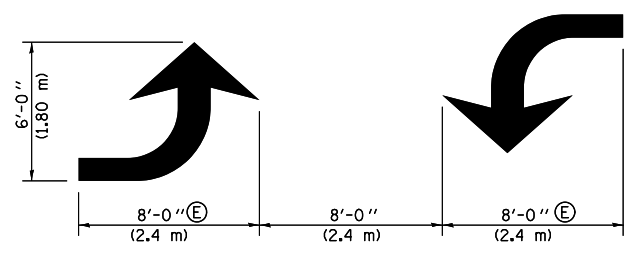
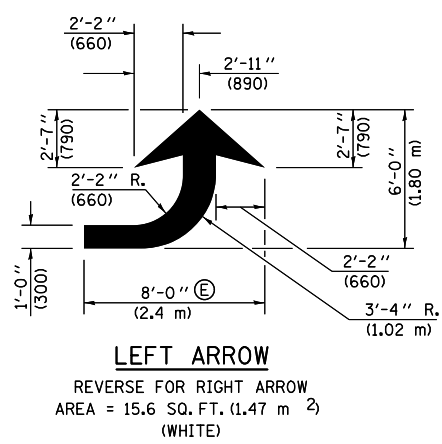
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	22
CONTRACT NO. 70596				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



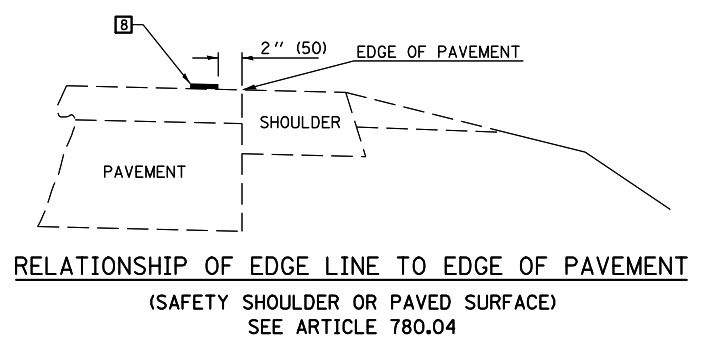
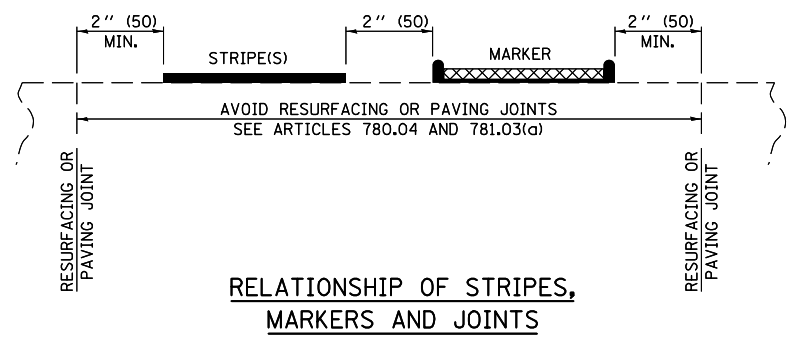
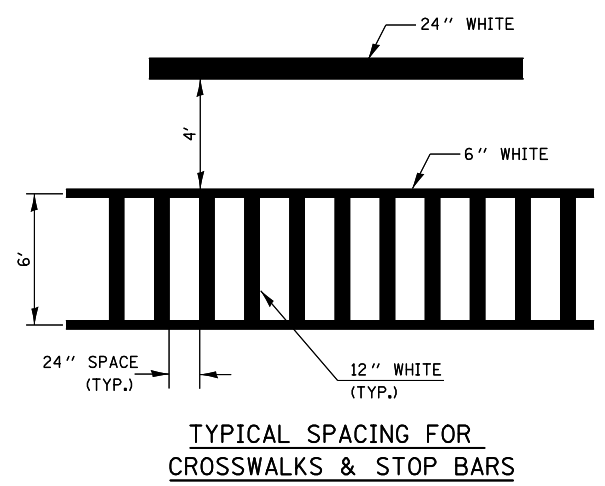
* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

- GENERAL NOTES:**
- ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
 - ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
 - ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
 - ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



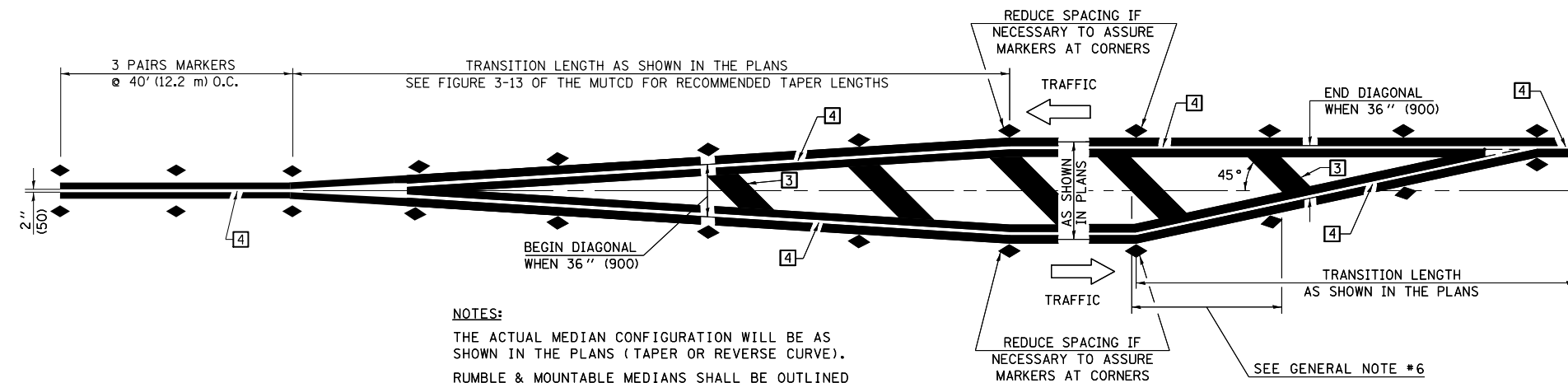
BLOOMINGTON-NORMAL CITY LIMITS ONLY



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAA

FILE NAME =	USER NAME = sjmsgm	DESIGNED -	REVISED - 11/06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\sjmsgm\08132144\057056-sht-Structure Repair Plans.dgn	DRAWN -	REVISED - 09/2009 - KJT	729			38BR-1	VERMILION	25	23	
PLOT SCALE = 48.0001' / in.	CHECKED -	REVISED -	CONTRACT NO. 70596							
PLOT DATE = 6/14/2011	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT			

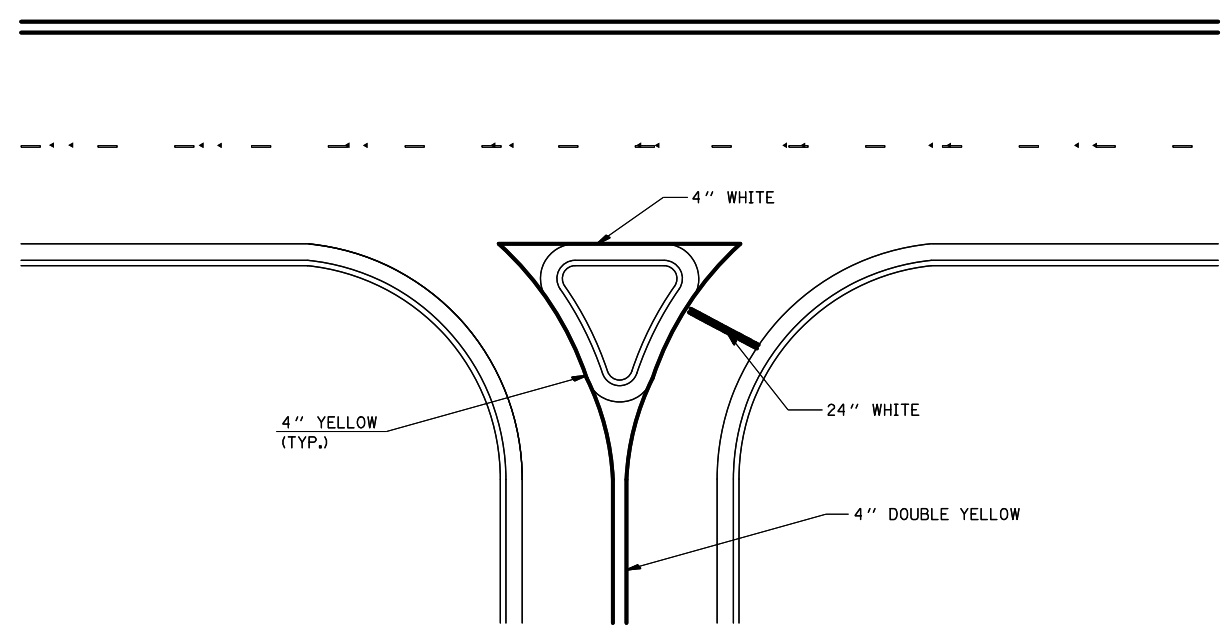


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

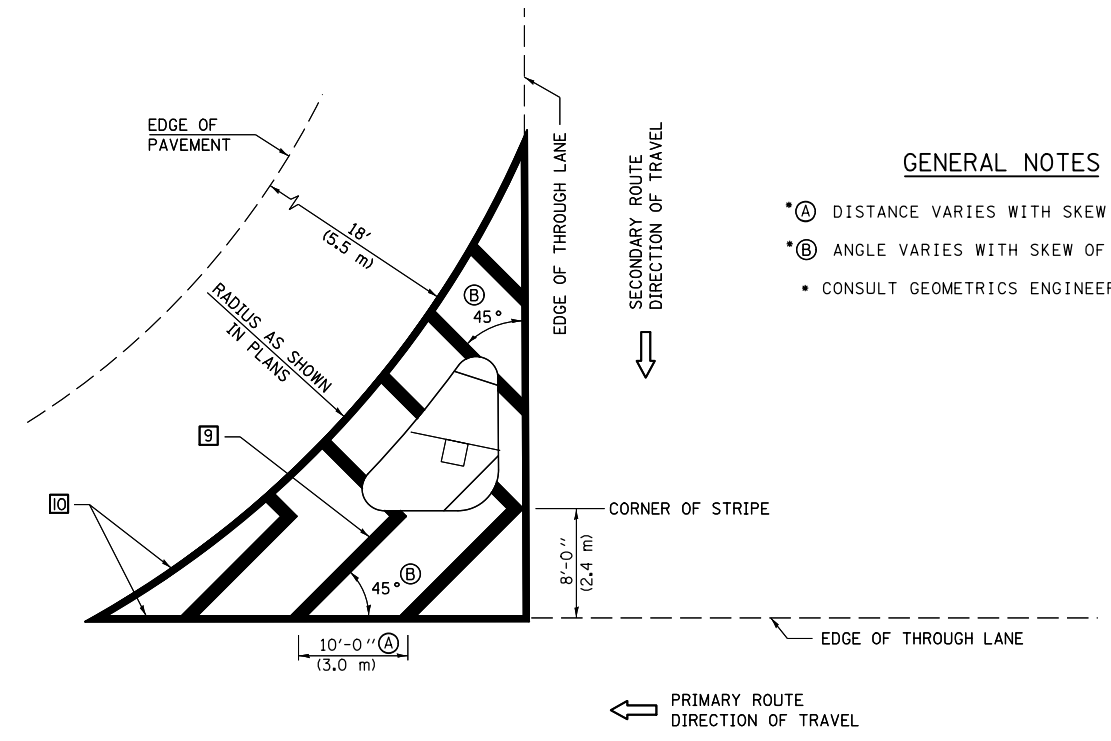
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- (B) ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

ISLAND

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = s1msgm	DESIGNED -	REVISED - 11/06
et:\pwork\pwork\dot\smmsgm\08132144\057056	6-shr-Structure Repair Plans.dgn	DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0001' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/14/2011	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

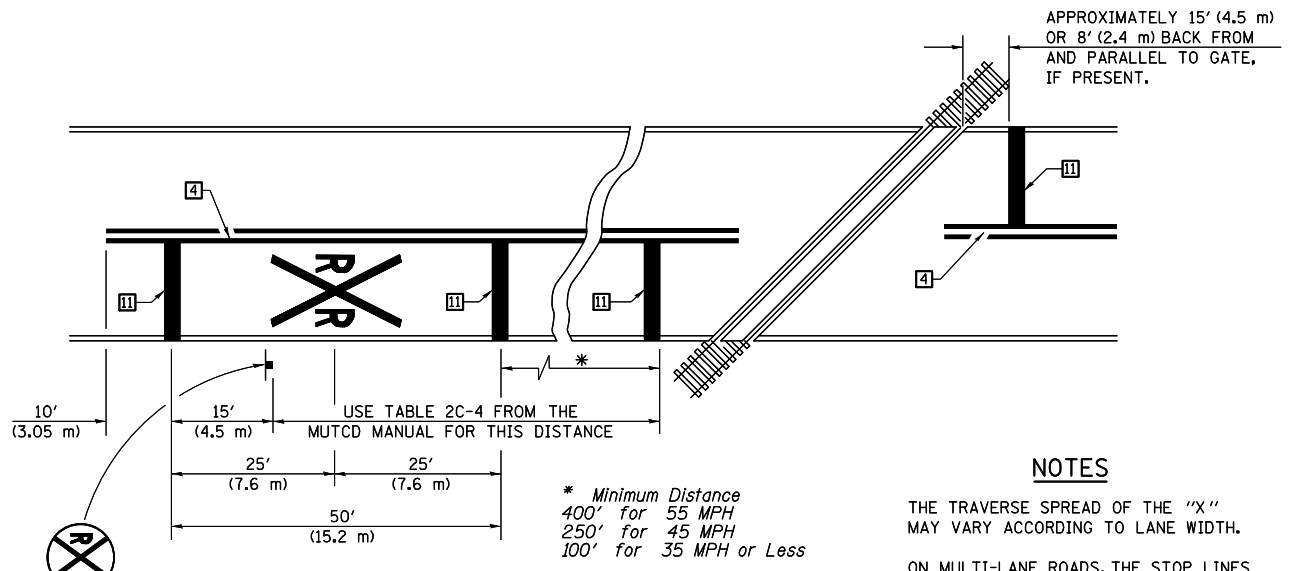
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	24
CONTRACT NO. 70596				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



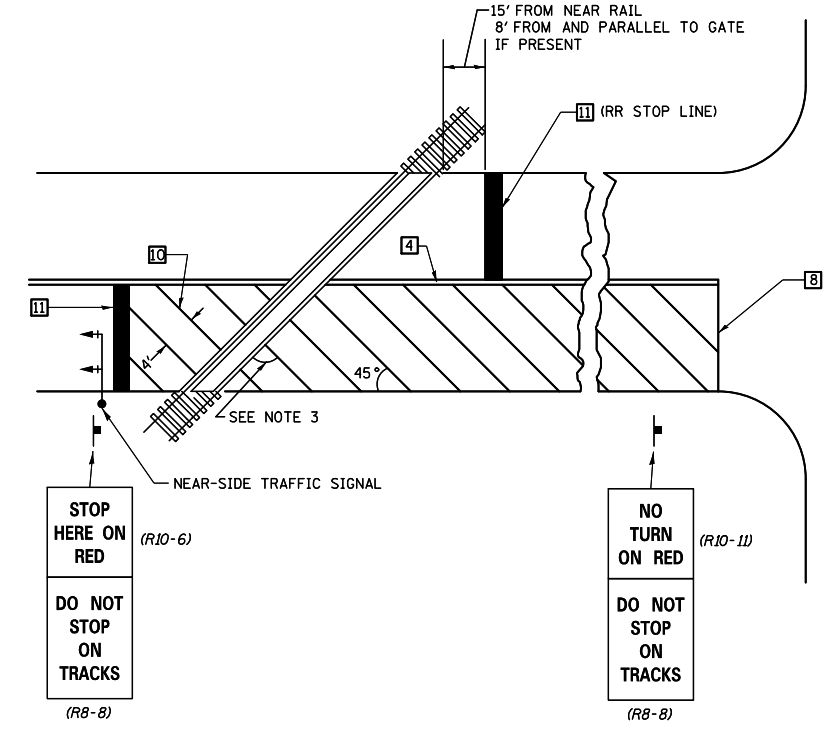
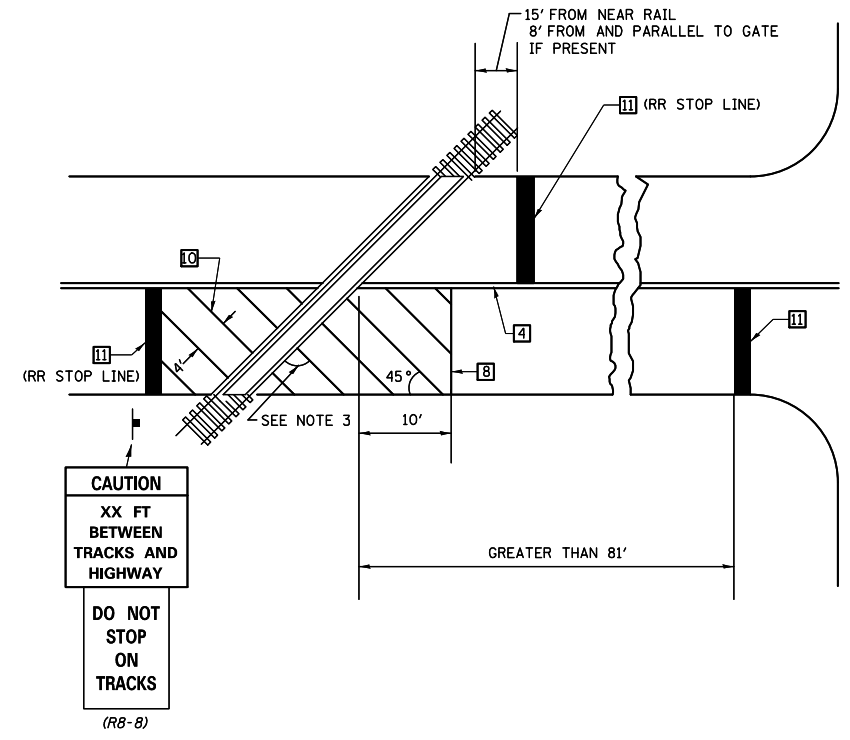
PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

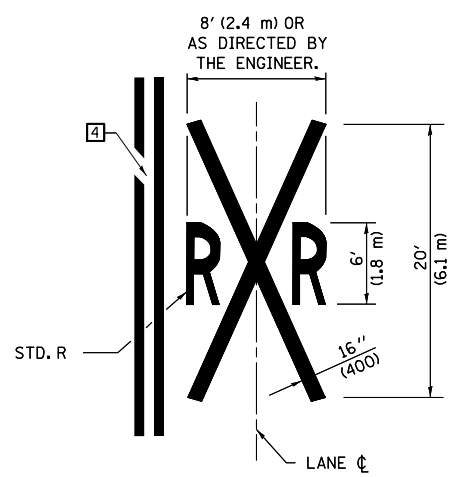
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = s1msgm	DESIGNED -	REVISED - 11/06
et:\pwork\pwork\dot\smgsm\08132144\057056-sht-Structure Repair Plans.dgn		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0001" / in.	CHECKED -	REVISED -
	PLOT DATE = 6/14/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	38BR-1	VERMILION	25	25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70596	