

03-06-15 LETTING ITEM 075

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 741 (IL ROUTE 105)
SECTION (7BR)I
PROJECT ACNHPP-0741 (310)
BRIDGE DECK REPAIRS
ILLINOIS 105 OVER F.A.I. RTE. 72
NORTH OF MONTICELLO
PIATT COUNTY

C-95-030-14

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)I	PIATT	12	1
ILLINOIS			CONTRACT NO. 70A75	

D-95-030-14



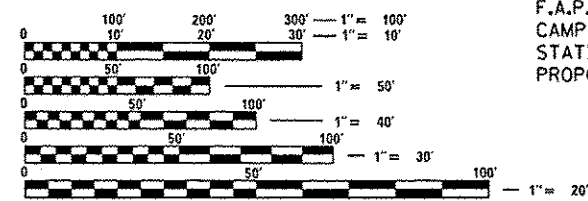
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-7

CURRENT TRAFFIC DATA STR. 074-0072	
2014 ADT	= 6,300
2034 ADT	= 6,900
PU+PC %	= 92.1
SU %	= 5.1
MU%	= 2.8

CURRENT TRAFFIC DATA STR. 074-0071	
2013 ADT	= 4,900
2033 ADT	= 5,600
PU+PC %	= 88.7
SU %	= 8.8
MU%	= 2.5

DESIGN DESIGNATION
OTHER PRINCIPAL ARTERIAL

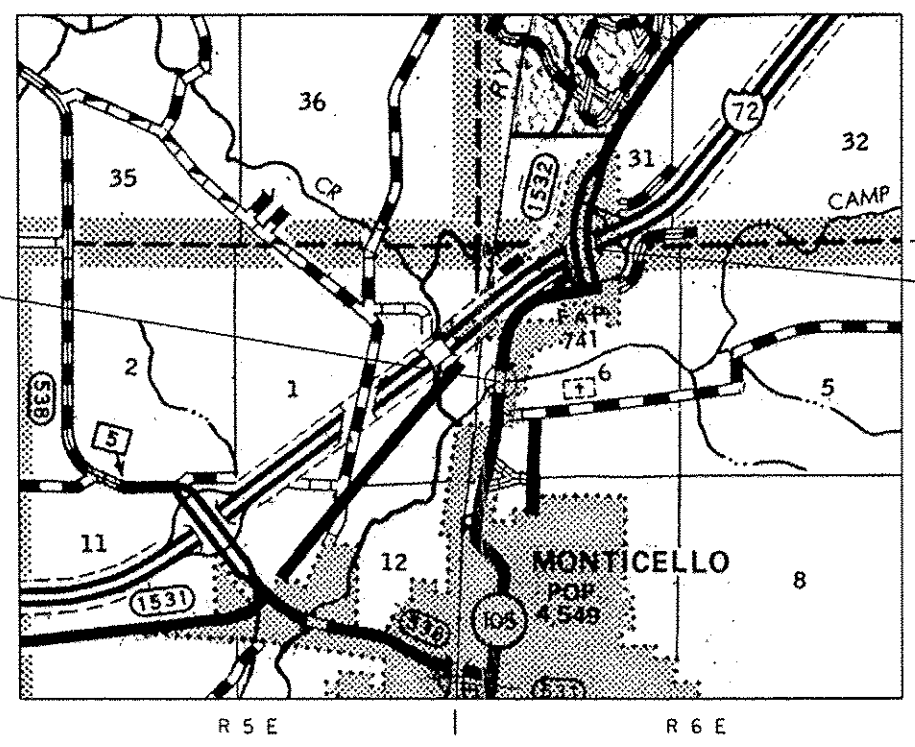
DESIGN DESIGNATION
OTHER PRINCIPAL ARTERIAL /
MINOR ARTERIAL



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

PROJECT ENGINEER: TIM BRANDENBURG
PROJECT MANAGER: ERIC SHAWLER
217-465-4181
CONTRACT NO. 70A75



EXISTING S.N. 074-0072
F.A.P. 741 (IL-105) OVER
CAMP CREEK
STATION 999+52.38
PROPOSED STRUCTURE REPAIRS

EXISTING S.N. 074-0071
F.A.P. 741 (IL-105) OVER F.A.I. 72
STATION 50+00 = 1464+71.70
PROPOSED STRUCTURE REPAIRS

GROSS LENGTH = 460.000 FT. = 0.0871 MILE
NET LENGTH = 460.000 FT. = 0.0871 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 3, 2014
Kenneth G. Bennett
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 30, 2015
John D. Baranzelli
actg ENGINEER OF DESIGN AND ENVIRONMENT

Jan 30, 2015
Omer Osman
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS
2	LIST OF STANDARDS
2-3	GENERAL NOTES
4-7	SUMMARY OF QUANTITIES
8-47	STRUCTURE PLANS S.N. 074-0071
48-68	STRUCTURE PLANS S.N. 074-0072
69-72	DESIGN DETAILS

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 FOOT
701006-05	OFF ROAD OPERATION, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-04	OFF ROAD OPERATION, MULTILANE, 15 FT FROM PAVEMENT EDGE
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701316-09	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS > 45 MPH
701321-14	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-09	LANE CLOSURE FREEWAY/EXPRESSWAY DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS > 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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.-105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-105.07B

EXISTING STATE-OWNED AND MAINTAINED UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL SECURE AN APPROVED LOCATING FIRM TO LOCATE STATE-OWNED UTILITIES PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF THESE LINES IN ACCORDANCE TO SECTION 803 OF THE STANDARD SPECIFICATIONS. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE STATE.

ALSO THERE MAY BE UTILITIES PRESENT WHICH WERE INSTALLED BY THE STATE BUT ARE MAINTAINED BY OTHERS (CITY, TOWN, ETC.) THE APPROXIMATE LOCATIONS OF THESE LINES ARE ALSO SHOWN ON THE PLANS ALONG WITH THE NAME OF THE MAINTAINING AGENCY. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THESE LINES WITH THE LOCAL AGENCY PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE LOCAL AGENCY AND THE STATE.

G.N.-406H

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.

FILE NAME *	USER NAME * shawleres	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS & HIGHWAY STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\p1dot\shawleres\0412844\052075_sht-index.dgn	DRAWN -	REVISED -	741			(78R)I	PIATT	72	2	
PLDT SCALE * 40.0000 1 / in.	CHECKED -	REVISED -	CONTRACT NO. 70A75							
PLDT DATE * 12/2/2014	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
\$MODELNAME*				SCALE:	SHEET 1 OF 2 SHEETS STA.	TO STA.				

GENERAL NOTES

G.N.-406H Mixture Requirements

Contract: 70A75

Location	IL 105
Mixture Use	Surface
AC/PG	PG 64-22
Design Air Voids	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 9.5
Friction Aggregate	Mix D
Mixture Weight	112
Quality Management Program	QC/QA
Sublot Size	N.A.

G.N.-501A

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHOULD FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

G.N.-609

PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE THE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

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 (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

FILE NAME *	USER NAME # shawleres	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\psidot\shawleres\02412844\09	0A75_sht-index.dgn	DRAWN -	REVISED -			741	(7BR)	PIATT	72	3	
	PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 70A75					
#MODEL NAME *	PLOT DATE = 12/2/2014	DATE -	REVISED -			SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CONSTRUCTION CODE:	
PIATT CO.	
URBAN	
80% FED / 20% STATE	
TWO LANE	
S.N. 074-0071	S.N. 074-0072
STATION	
50+00	999+52.38

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0014 BRIDGE	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	261.0	261.0	0.0
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	490.0	490.0	0.0
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N60	TON	196.0	114.0	82.0
42001300	PROTECTIVE COAT	SQ YD	403.0	403.0	0.0
44003100	MEDIAN REMOVAL	SQ FT	4,514.0	4,514.0	0.0
44213204	TIE BARS 3/4"	EACH	392.0	392.0	0.0
50102400	CONCRETE REMOVAL	CU YD	60.6	52.4	8.2
50157300	PROTECTIVE SHIELD	SQ YD	630.0	630.0	0.0
50300100	FLOOR DRAINS	EACH	8.0	8.0	0.0
50300225	CONCRETE STRUCTURES	CU YD	20.6	20.6	0.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	45.6	37.0	8.6
50300300	PROTECTIVE COAT	SQ YD	293.0	293.0	0.0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3,320.0	3,320.0	0.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,570.0	3,740.0	830.0

14 * SPECIALTY ITEM

FILE NAME *	USER NAME * shwleraa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pwork\p\idot\shwleraa\0412844\00	RA75.sht-500.dgn	DRAWN -	REVISED -		SCALE:	SHEET 1 OF 4 SHEETS	STA.	TO STA.	741	(78R)	PIATT	72	4
	PLOT SCALE = 40.0000 1/1 in.	CHECKED -	REVISED -		CONTRACT NO. 70A75								
#MODELNAME*	PLOT DATE = 12/2/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

SUMMARY OF QUANTITIES

CONSTRUCTION CODE:	
PIATT CO.	
URBAN	
80% FED / 20% STATE	
TWO LANE	
S.N. 074-0071 S.N. 074-0072	
STATION	
50+00	999+52.38

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0014 BRIDGE	
50800515	BAR SPLICERS	EACH	32.0	20.0	12.0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	96.0	0.0	96.0
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	18.0	18.0	0.0
52100530	ANCHOR BOLTS, 1 1/4"	EACH	36.0	36.0	0.0
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	2,344.0	1,367.0	977.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6.0	3.0	3.0
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1.0	0.0	1.0
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.0	2.0	0.0
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1.0	0.0	1.0
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1.0	0.0	1.0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2.0	1.0	1.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	437.5	0.0	437.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	437.5	0.0	437.5

* SPECIALTY ITEM

FILE NAME *	USER NAME * zha-jerex	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\pwork\p\ideth\ha\lerex\02412844\002	7075_sht-000.dgn	DRAWN -	REVISED -			741	47BRH	PIATT	72	5	
	PLOT SCALE * 48.0000 1/1 in.	CHECKED -	REVISED -			SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.		CONTRACT NO. 70A75			
MODELNAME	PLOT DATE * 12/2/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES

CONSTRUCTION CODE:	
PIATT CO.	
URBAN	
80% FED / 20% STATE	
TWO LANE	
S.N. 074-0071 S.N. 074-0072	
STATION	
50+00	999+52.38

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	50+00	999+52.38
				0014 BRIDGE	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0	0.0	2.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0	0.0	2.0
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2,493.0	1,826.0	667.0
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3.0	0.0	3.0
81603035	UNIT DUCT, 600V, 2-1C NO.6 1/C NO. 6 GROUND (XLP-TYPE USE) 1" DIA. POLYETHYLENE	FOOT	875.0	875.0	0.0
X0322194	POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	1.8	0.0	1.8
X0325682	PUMPABLE CONCRETE MIX	CU FT	3.0	0.0	3.0
X6081702	CONCRETE MEDIAN, TYPE SM (DOWELLED)	SQ FT	3,619.0	3,619.0	0.0
X7010200	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316 (SPECIAL)	EACH	1.0	1.0	0.0
X7010410	SPEED DISPLAY TRAILER	CAL MO	3.0	3.0	0.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28.0	28.0	0.0
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0	0.0	1.0
X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	2,493.0	1,826.0	667.0
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	18.0	18.0	0.0

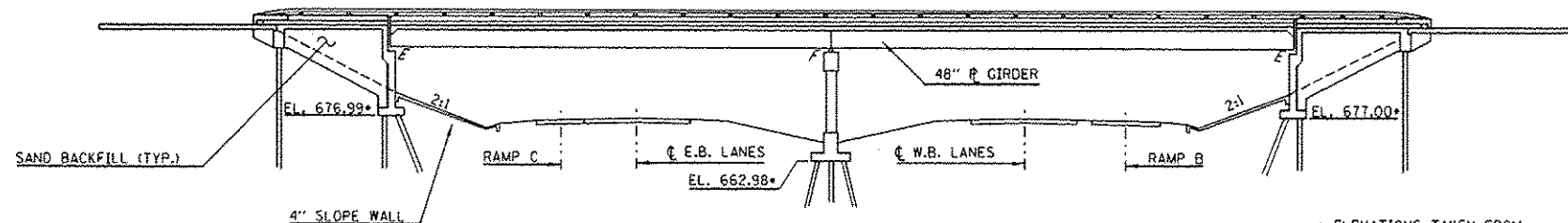
• SPECIALTY ITEM

FILE NAME *	USER NAME * shw-lorcs	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cd:\pwork\p1dot\shw-lorcs\02412844\050A75.sht+SCQ.dgn	0A75.sht+SCQ.dgn	DRAWN -	REVISED -			741	(7BR)	PIATT	72	6	
PLOT SCALE * 40,0000 ' / in.		CHECKED -	REVISED -			CONTRACT NO. 70A75					
PLOT DATE * 12/2/2014		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
#MODELNAME*				SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.							

THE EXISTING OVERHEAD STRUCTURE WAS BUILT IN 1975 BY THE STATE OF ILLINOIS AS FAI ROUTE 72, SECTION 74-688B-3 AT STATION 1464+71.70 AT MONTICELLO IN PIATT COUNTY. THE SUPERSTRUCTURE CONSISTS OF NINE 48" STEEL PLATE GIRDERS SUPPORTING AN 8" R.C. DECK WITH A WATERPROOFING MEMBRANE AND 1 1/2" H.M.A. WEARING SURFACE. THE SUPERSTRUCTURE IS SUPPORTED BY TWO SAND-FILLED, VAULTED ABUTMENTS ON SPREAD FOOTINGS WITH CONCRETE PILES AND ONE MULTI-COLUMN TRAPEZOIDAL PIER ON A SPREAD FOOTING WITH CONCRETE PILES. THE EXISTING STRUCTURE MEASURES 255'-3" FROM BACK TO BACK OF APPROACH BENTS AND 68'-0" OUT TO OUT OF DECK. THE HORIZONTAL CLEARANCE IS 64'-6" FROM FACE TO FACE OF PARAPET INCLUDING 24'-3" OF CLEAR ROADWAY FOR EACH DIRECTION AND A 16'-0" VAULTED MEDIAN.

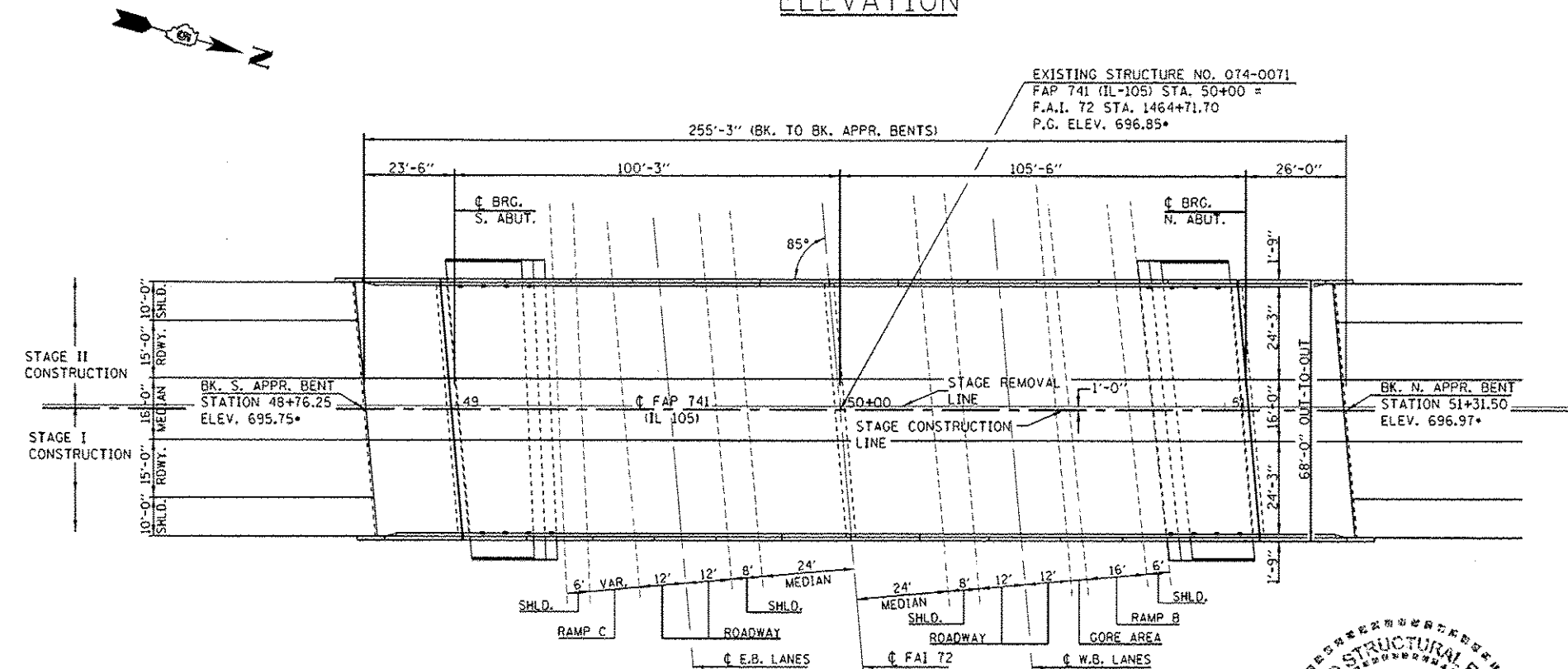
SEE LIST OF PROPOSED IMPROVEMENTS ON THIS SHEET.

WORK SHALL BE COMPLETED WITH STAGED CONSTRUCTION.



* ELEVATIONS TAKEN FROM AS-BUILT PLANS AND ARE SHOWN FOR PERSPECTIVE ONLY.

ELEVATION



PLAN VIEW

PROPOSED IMPROVEMENTS

1. REMOVE EXISTING WEARING SURFACE AND WATERPROOFING MEMBRANE.
2. PARTIAL DEPTH, FULL-DEPTH DECK PATCHING, REMOVE OR REPLACE DECK DRAINS, VAULTED-MEDIAN CURB REMOVAL AND REPLACEMENT ALONG WITH DECK END REPAIRS.
3. STRUCTURAL REPAIR OF CONCRETE ON PARAPETS AND ABUTMENT BACK WALL.
4. PLACEMENT OF PROPOSED WATER PROOFING MEMBRANE SYSTEM, H.M.A. WEARING SURFACE AND SILICONE JOINT SEALER.
5. REPLACE EXISTING STEEL ROCKER BEARINGS WITH ELASTOMERIC BEARING ASSEMBLIES.
6. CONCRETE STRUCTURE REPAIRS ON ABUTMENT FACES.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
H.M.A. SURFACE COURSE, MIX "D", NS0	TON	114.0
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SO YD	1372.0
WATERPROOFING MEMBRANE SYSTEM	SO YD	1367.0
CONCRETE REMOVAL	CU YD	52.4
PROTECTIVE SHIELD	SO YD	630.0
FLOOR DRAINS	EACH	8.0
CONCRETE STRUCTURES	CU YD	20.6
CONCRETE SUPERSTRUCTURES	CU YD	37.0
PROTECTIVE COAT	SO YD	293.0
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3320.0
REINFORCEMENT BARS (EPOXY COATED)	POUND	3740.0
BAR SPLICERS	EACH	20.0
DECK SLAB REPAIR (FULL-DEPTH, TY I)	SO YD	9.0
DECK SLAB REPAIR (FULL-DEPTH, TY II)	SO YD	58.0
DECK SLAB REPAIR (PARTIAL)	SO YD	68.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH <= 5")	SO FT	231.0
ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	18.0
ANCHOR BOLTS, 1 1/4"	EACH	36.0
JACK AND REMOVE EXISTING BEARINGS	EACH	18.0
SILICONE JOINT SEALER, 2.75"	FOOT	136.0
POLYMER CONCRETE	CU FT	8.1

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 AND H.M.A. SURFACE REMOVAL (DECK).

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270, GR. 36, UNLESS OTHERWISE NOTED.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH THE CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

EXISTING STRUCTURAL STEEL THAT WILL BE IN CONTACT WITH NEW STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED PRIOR TO ERECTION AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".

ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH THE INORGANIC ZINC RICH PRIMER PER AASHTO M300, TYPE I. COST INCLUDED WITH FURNISHING AND ERECTING STRUCTURAL STEEL.

IF THE ANALYSIS SUBMITTED TO THE CONTRACTOR FOR THE JACKING/TEMPORARY SUPPORT SYSTEM TO BE USED SHOWS TEMPORARY STIFFENERS ARE REQUIRED TO PREVENT WEB CRIPLING OR BUCKLING, THE STIFFENERS SHALL BE STEEL AND BOLTED TO THE WEB. IF STIFFENERS ARE NOT REQUIRED, HARDWOOD TIMBERS SHALL BE INSTALLED TIGHTLY BETWEEN THE TOP AND BOTTOM FLANGE TO PREVENT FLANGE ROTATION.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STD. SPECS. WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50°F.

S.N. 074-0071 HAVE BEEN DETERMINED, THROUGH TESTING, NOT TO INVOLVE ASBESTOS IN A BITUMINOUS BRIDGE DECK WEARING SURFACE OR WATERPROOFING MEMBRANE. AS CERTIFIED WITH BBS FORM 2536, OCTOBER 19, 2001.

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS- BUILT PLANS.

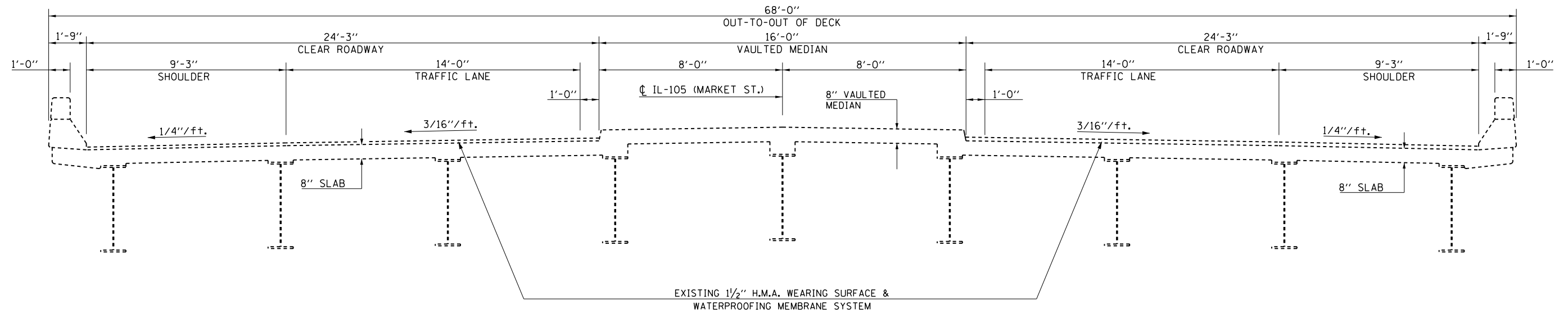
THE RAIL POSTS WITHIN THE PARAPET REPAIR AND REMOVAL AND REPLACEMENT LIMITS SHALL BE REMOVED TO ALLOW FOR THE REPAIR WORK TO BE COMPLETED. FOLLOWING COMPLETION OF THE PARAPET ENDS, THE CONTRACTOR TO EITHER SAVE AND REUSE THE EXISTING CAST-IN-PLACE ANCHOR SYSTEM OR USE EPOXY-GROUTED THREADED RODS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONCRETE SUPERSTRUCTURES. SEE AS-BUILT PLANS FOR ALUMINUM RAILING DETAIL.



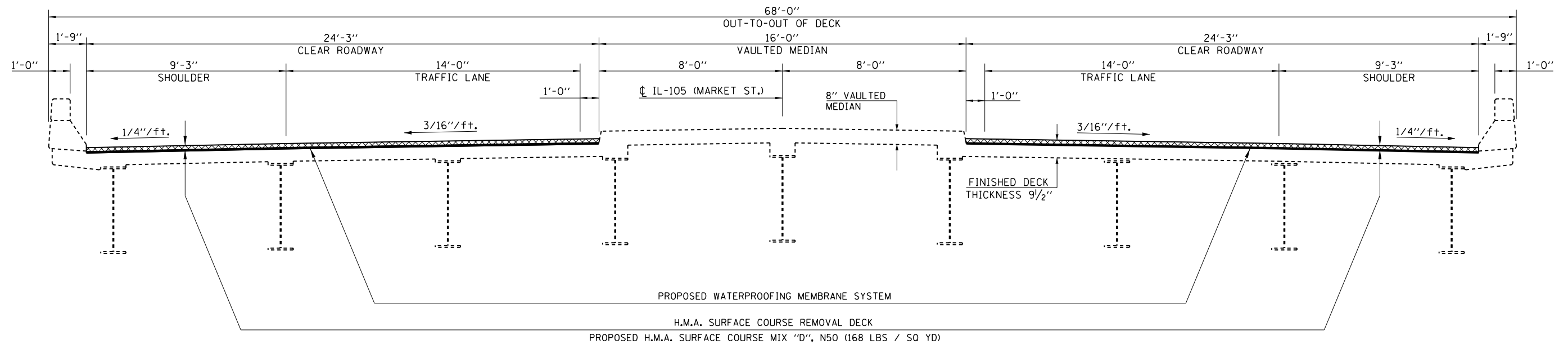
David Carl Puzey 1/22/15
Expires 11/30/16

FILE NAME *	USER NAME = shawleres	DESIGNED - GMS	REVISED - ESS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION S.N. 074-0071 FAP 741 (IL-105 - MARKET STREET) OVER FAI-72	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\shawleres\081204\1052075.shi-Repair Plans.dgn	DRAWN - GMS	REVISED - ESS	741			(7BR)	PIATT	72	8	
PLOT SCALE = 40,000 1" = 100'	CHECKED - VAV	REVISED -	CONTRACT NO. 70A75							
PLOT DATE = 12/2/2014	DATE -	REVISED - 5-22-2013	SCALE: 20			SHEET NO. 1 OF 40 SHEETS	STA. 48+76.25 TO STA. 51+31.50	ILLINOIS FED. AID PROJECT		

EXISTING DECK CROSS SECTIONS S.N. 074-0071



PROPOSED DECK CROSS SECTIONS S.N. 074-0071

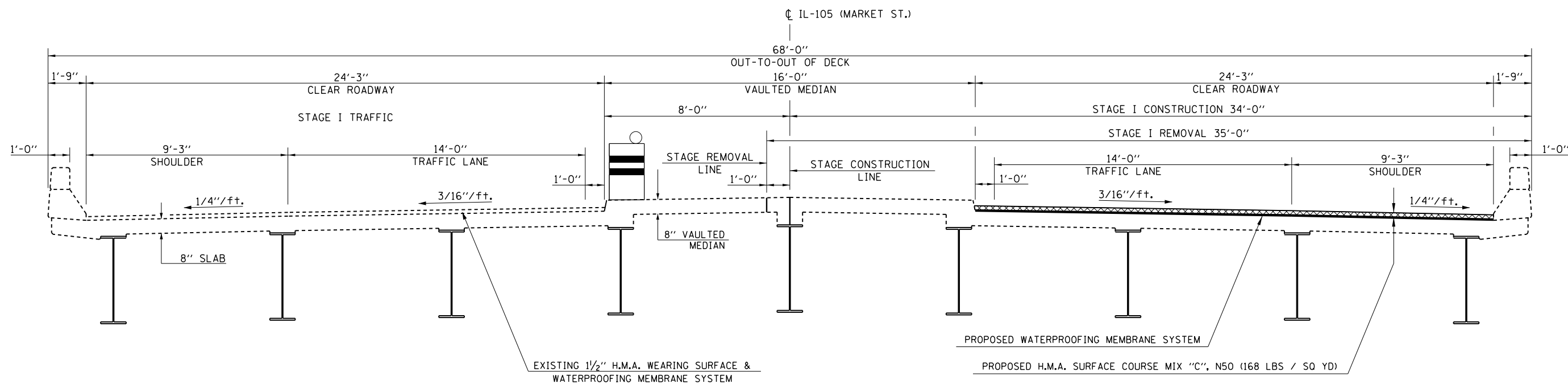


FILE NAME =	USER NAME = showleres	DESIGNED - GMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK CROSS SECTIONS S.N. 074-0071	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw_work\p\idot\showleres\d0412844\0570475_sht-Repair Plans.dgn	PLOT SCALE = 40.0002' / in.	DRAWN - GMS	REVISED -			741	(7BR)	PIATT	72	9	
PLOT DATE = 12/2/2014	DATE -	CHECKED -	REVISED -			CONTRACT NO. 70A75					
						ILLINOIS FED. AID PROJECT					

STAGE I CONSTRUCTION DETAILS

S.N. 074-0071

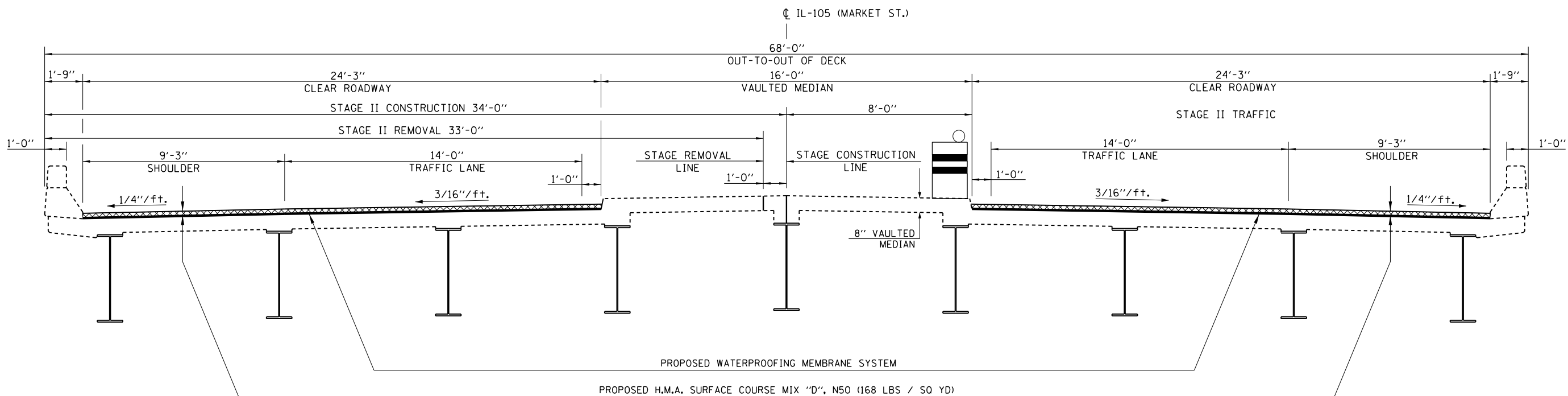
LOOKING NORTH



STAGE II CONSTRUCTION DETAILS

S.N. 074-0071

LOOKING NORTH



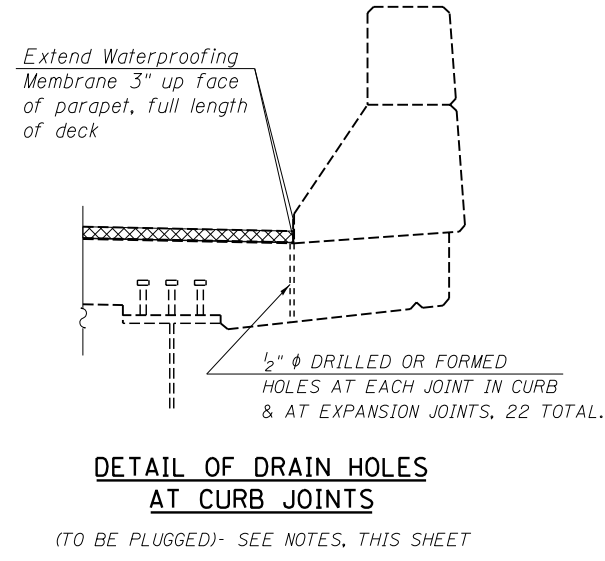
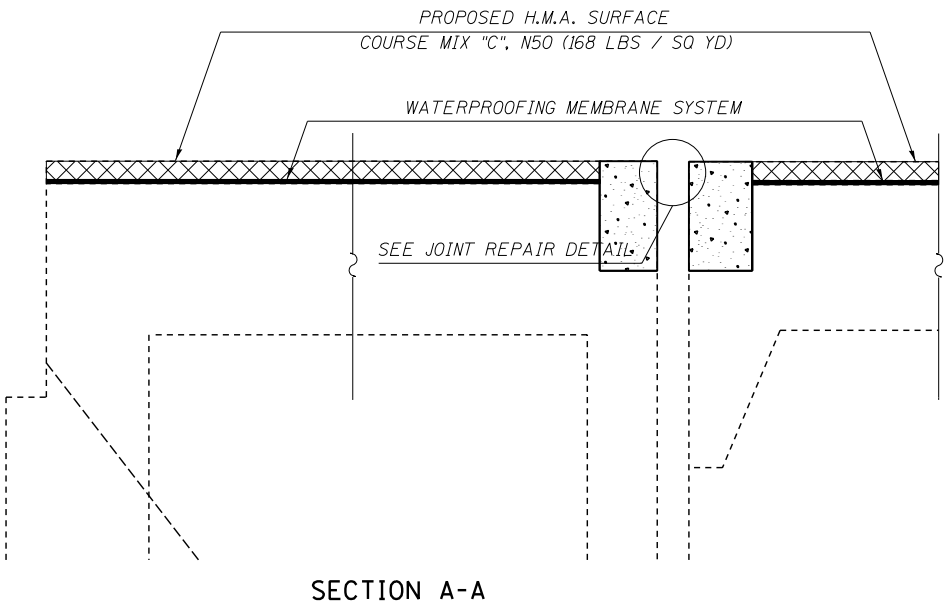
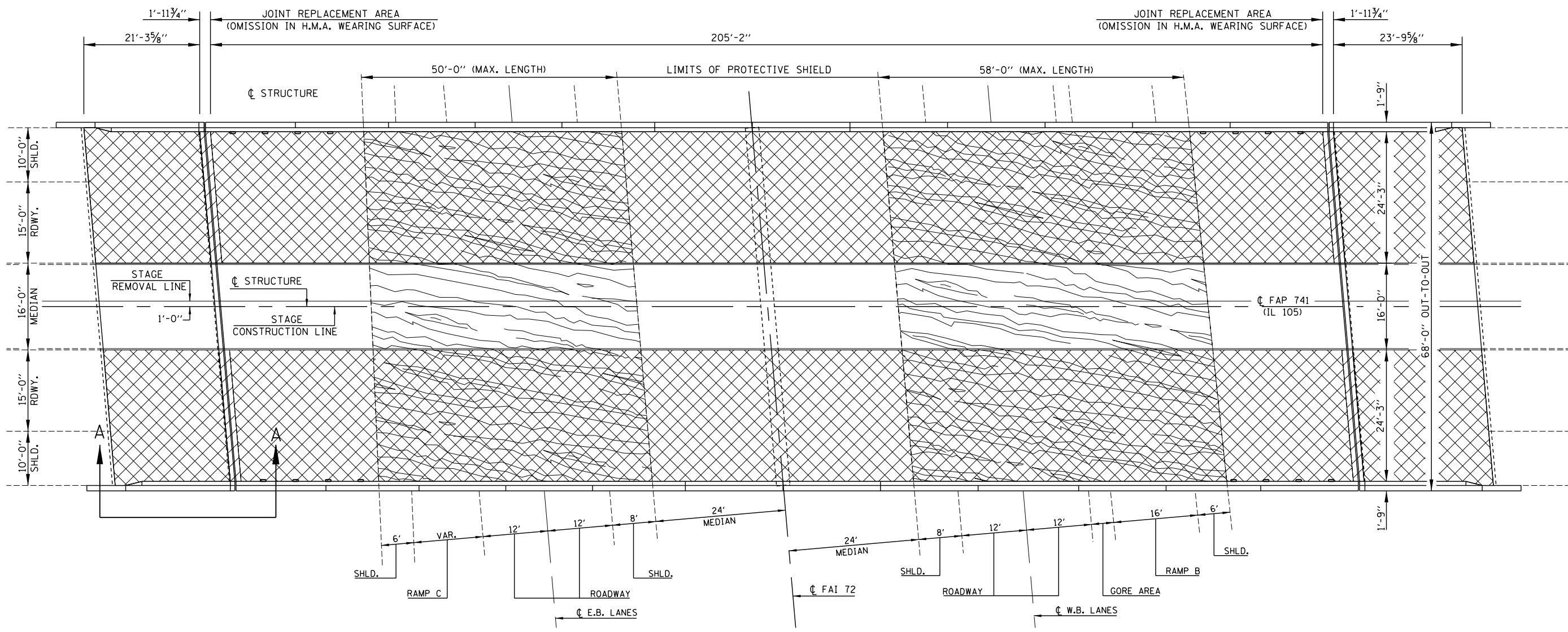
FILE NAME =	USER NAME = showleres	DESIGNED - GMS	REVISED - ESS
ct:\pw\work\p\id\showleres\d0412844\0570A75_sht-Repairs Plans.dgn		DRAWN - GMS	REVISED - ESS
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/2/2014	DATE -	REVISED - 7-19-2013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAIL
S.N. 074-0071

SCALE: SHEET NO. 3 OF 40 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	10
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				



NOTE:
 EXISTING PROTETCTIVE SHIELD WAS INSTALLED BY THE DISTRICT 5 BRIDGE CREW ON APRIL, 23 2009 OVER CENTER TWO BAYS ON BOTH EASTBOUND AND WESTBOUND SIDES. THE EXISTING PROTECTIVE SHIELD QUANTITY HAS BEEN DEDUCTED FROM THE AREA OVER TRAFFIC. HOWEVER, THE R.E.'S DESCRETION OF CONDITION, AT THE TIME OF CONSTRUCTION WILL DETERMINE FINAL PLAN QUANTITY.

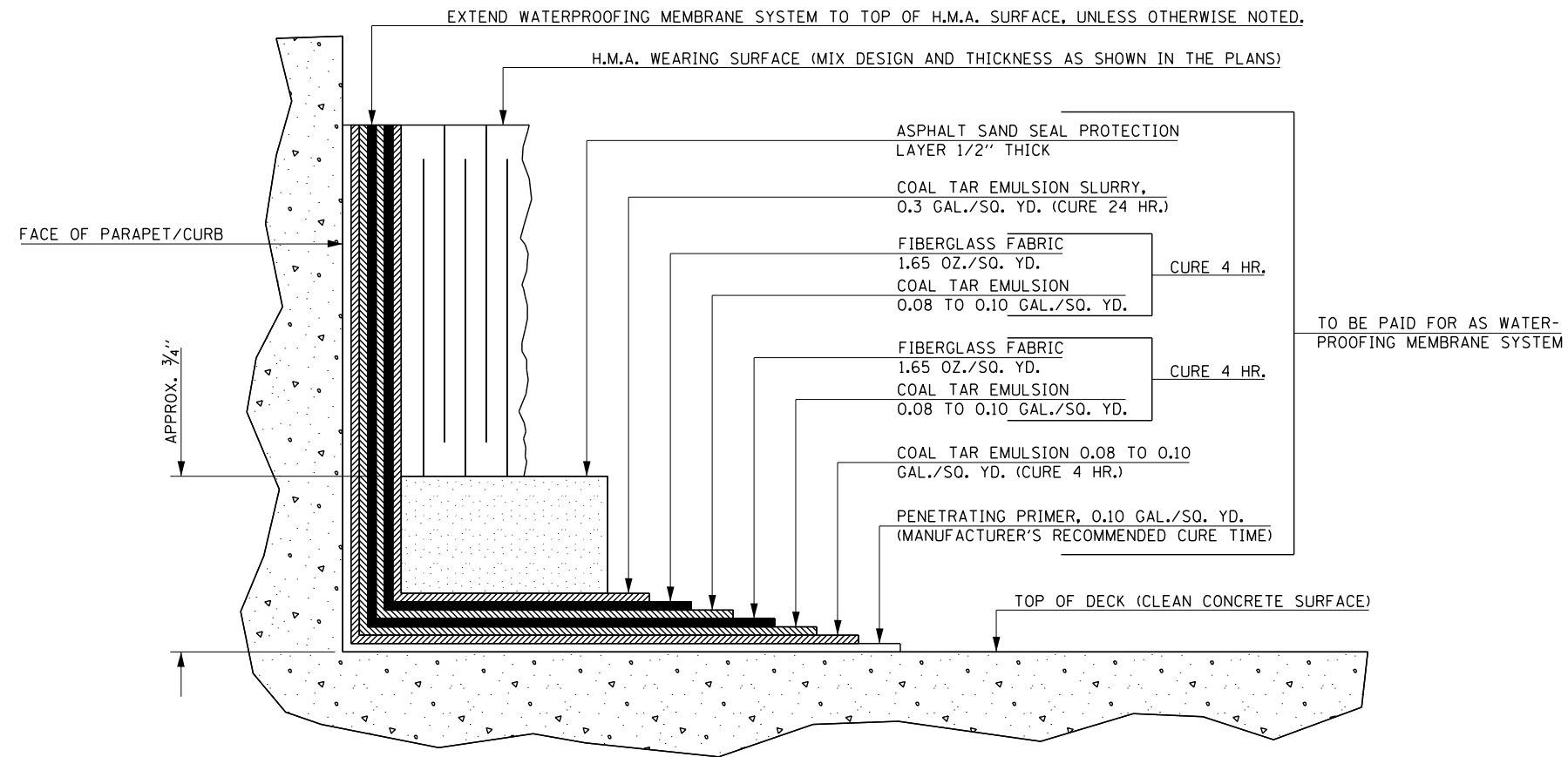
AT COMPLETION OF THE PROJECT THE PROTECTIVE SHIELD WILL BE REMOVED AND STORED AT THE JOB SITE TO BE SALVAGED BY THE STATE. CONTACT JEFF CARR AT (217) 836-8253.

ALL (QTY. 22) 1/2" Ø DRAIN HOLES AT CURB JOINTS SHALL BE FILLED WITH A TWO COMPONENT NON-STAINING GRAY SEALING COMPOUND WITH POLYSULFIDE LIQUID POLYMERS - GUN GRADE WITH PRIMER. COST TO BE INCLUDED WITH WATERPROOFING MEMBRANE SYSTEM.

- LEGEND**
- BRIDGE DECK WEARING SURFACE, REMOVAL
 - BRIDGE DECK WEARING SURFACE, REMOVAL AND REPLACEMENT
 - PROTECTIVE SHIELD

BILL OF MATERIALS

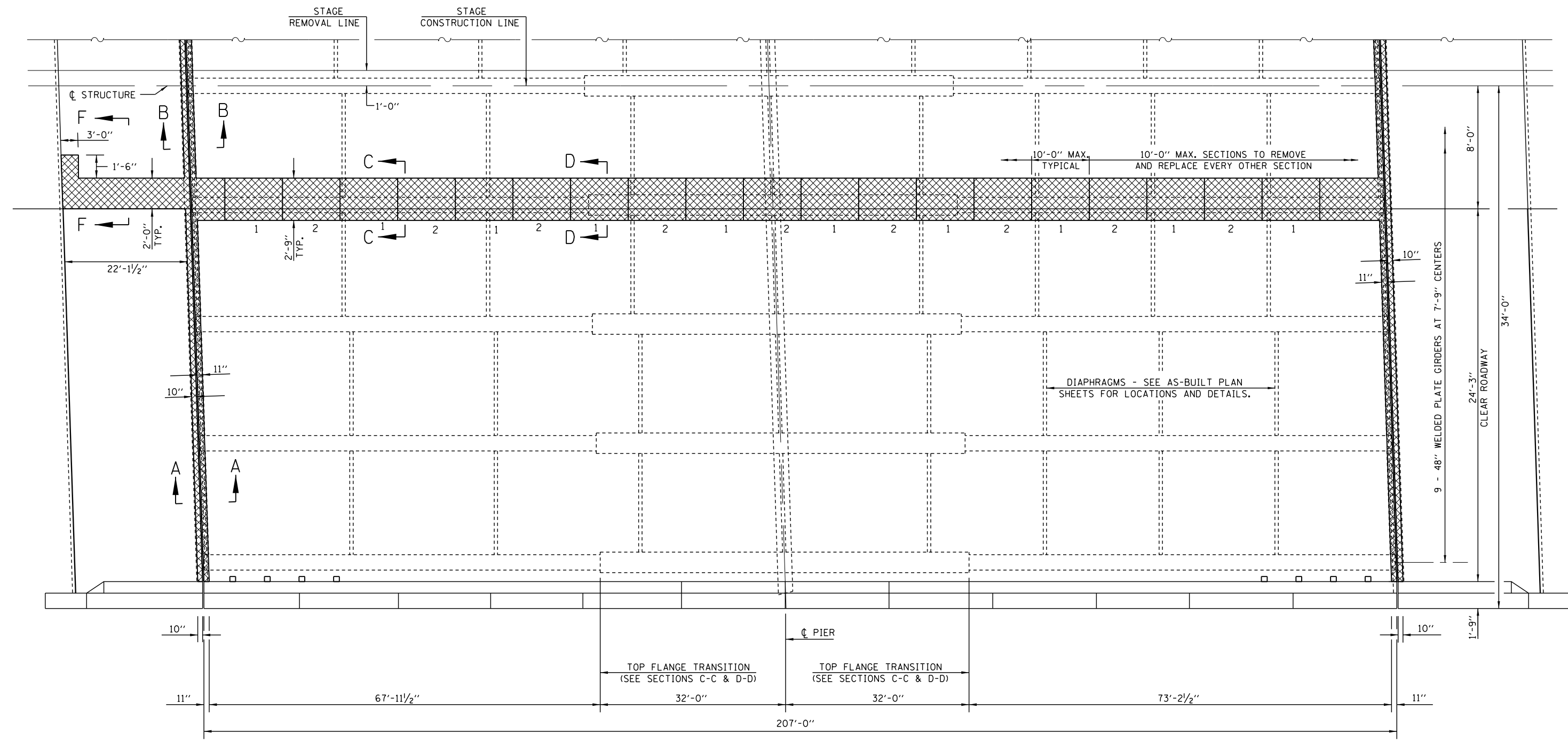
ITEM	UNIT	TOTAL
PROTECTIVE SHIELD	SO YD	630.0
H.M.A. SURFACE REMOVAL (DECK)	SO YD	1372.0
H.M.A. SURFACE COURSE, MIX C, N-50	TON	114.0
WATERPROOFING MEMBRAINE SYSTEM	SO YD	1367.0



NOTES

THIS DETAIL HAS BEEN INCLUDED TO ILLUSTRATE THE ASSOCIATED LAYERS AND CURE TIMES NECESSARY FOR THE PLACEMENT OF THE WATERPROOFING MEMBRANE SYSTEM. THIS DETAIL SHALL SUPPLEMENT, NOT SUPERSEDE, SECTION 581 OF THE STANDARD SPECIFICATIONS.

FILE NAME =	USER NAME = showleres	DESIGNED - GMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATERPROOFING MEMBRANE SYSTEM S.N. 074-0071		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\idot\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - GMS	REVISED -		741	(7BR)	PIATT	72	12		
\$MODELNAME\$	PLOT SCALE = 40.0024' / in.	CHECKED -	REVISED -		CONTRACT NO. 70A75						
	PLOT DATE = 12/2/2014	DATE -	REVISED -		SCALE:	SHEET 5 OF 40 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			



SOUTH ABUTMENT

NORTH ABUTMENT

NOTES:
SEE SHEET 8 FOR SECTION DETAILS, NOTES AND BILL OF MATERIALS FOR CONCRETE REMOVAL.

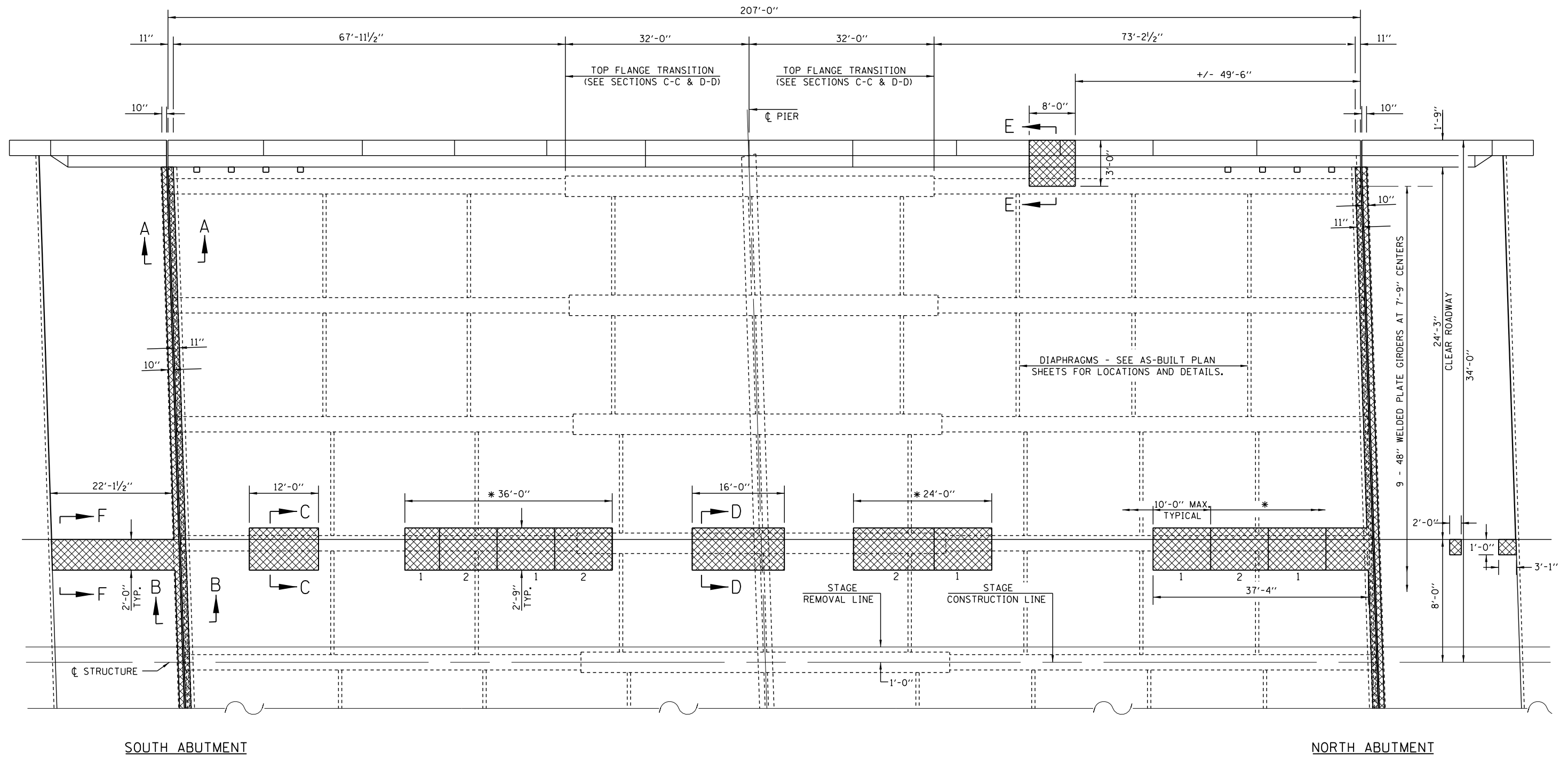
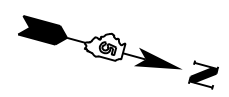
LEGEND
 CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE

FILE NAME =	USER NAME = showleres	DESIGNED - ESS	REVISED -
ct:\pw\work\p\dot\showleres\d0412844\0570A75_sht-1-Repair Plans.dgn		DRAWN - ESS	REVISED -
	PLOT SCALE = 40.0024' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 12/2/2014	DATE - 7-9-2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE ONE CONCRETE REMOVAL PLAN			
S.N. 074-0071			
SCALE:	SHEET 6 OF 40 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	13
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				



NOTES:
 SEE SHEET 8 FOR SECTION DETAILS, NOTES AND BILL OF MATERIALS FOR CONCRETE REMOVAL.

LEGEND

CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE

* 10'-0" MAX. SECTIONS TO REMOVE AND REPLACE EVERY OTHER SECTION

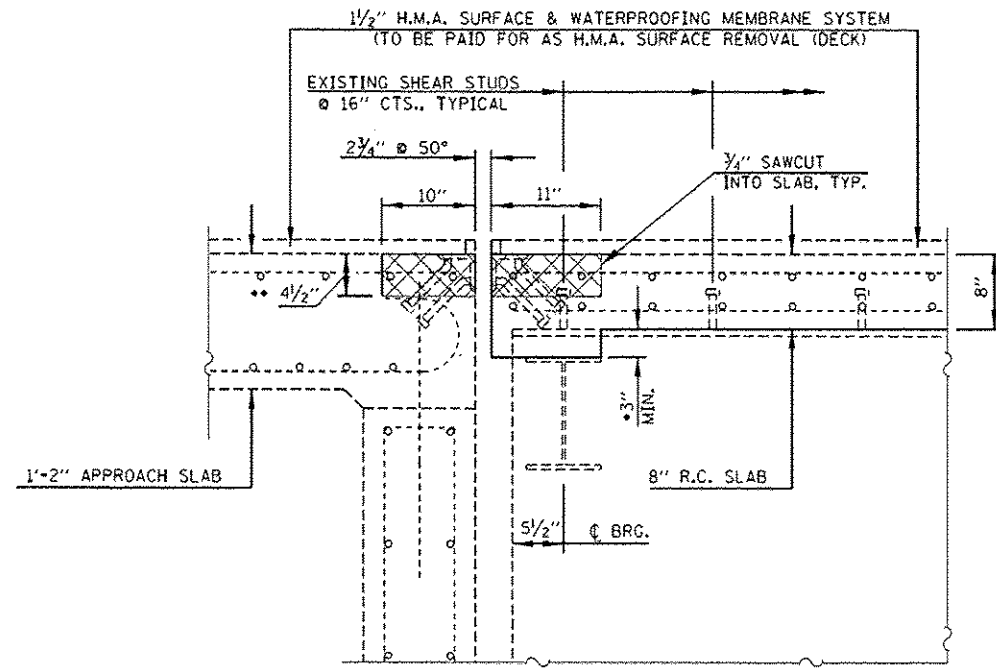
FILE NAME =	USER NAME = showleres	DESIGNED - ESS	REVISED -
ci:\pw\work\p\id\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - ESS	REVISED -
	PLOT SCALE = 40.0024 ' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 12/2/2014	DATE - 7-10-2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE TWO CONCRETE REMOVAL PLAN
 S.N. 074-0071**

SCALE: SHEET 7 OF 40 SHEETS STA. TO STA.

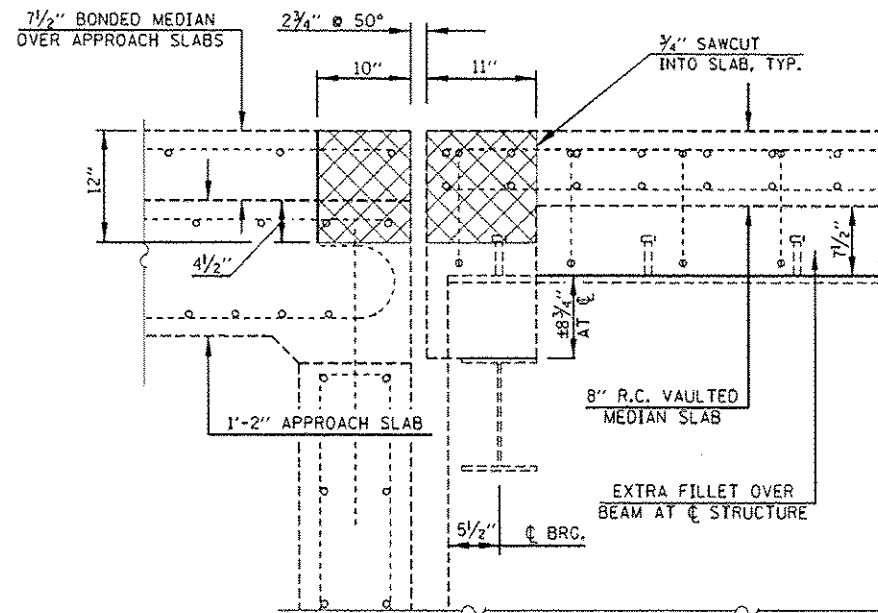
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	14
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				



• MINIMUM AT EDGE OF DECK/SLAB
(INCREASES WITH CROSS SLOPE TOWARDS @ BRIDGE)
•• EXISTING STEEL 3/4" Ø x 8" @ 1'-0" CTS. STUDS
SHALL BE CUT OFF AT THE CONCRETE REMOVAL LINE.

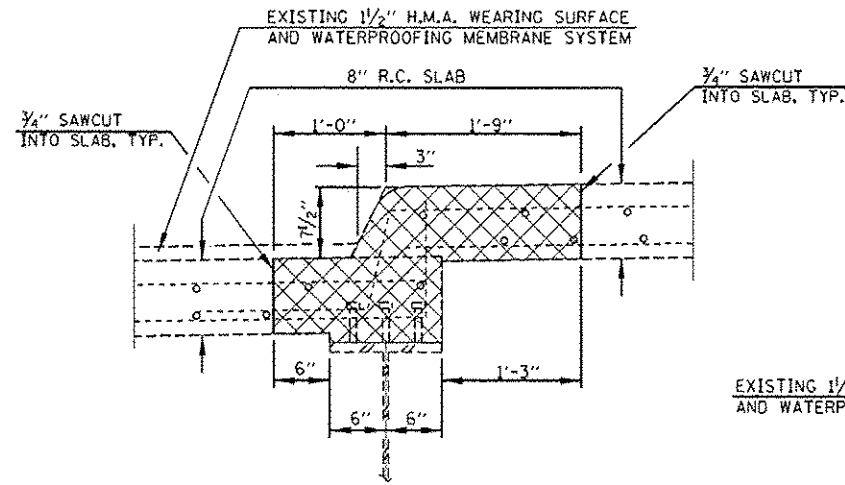
SECTION A-A

SHOWING CONCRETE REMOVAL LIMITS
AT ABUTMENT / DECK END



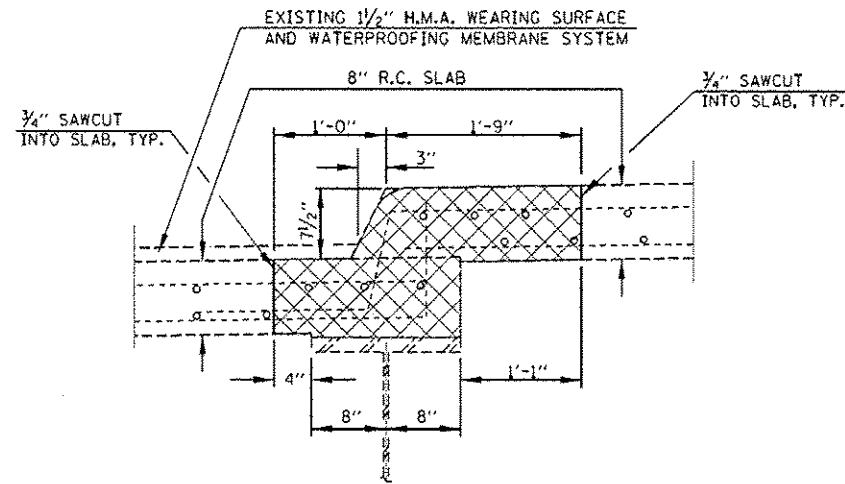
SECTION B-B

SHOWING CONCRETE REMOVAL LIMITS
AT ABUTMENT / DECK END AT MEDIAN



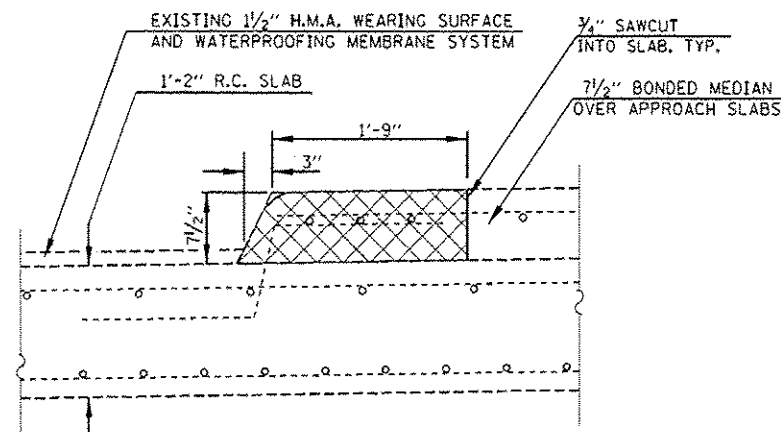
SECTION C-C

SHOWING REMOVAL LIMITS FOR VAULTED
MEDIAN CURB LINE NEAR ABUTMENTS



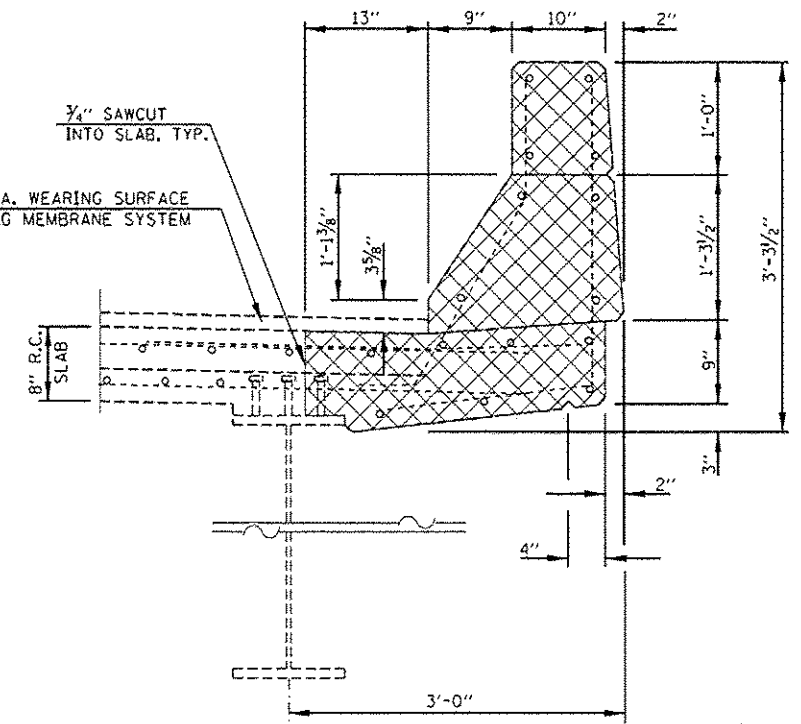
SECTION D-D

SHOWING REMOVAL LIMITS FOR VAULTED
MEDIAN CURB LINE NEAR PIER



SECTION F-F

SHOWING REMOVAL LIMITS FOR MEDIAN
CURB LINE OVER APPROACH SPAN



SECTION E-E

SHOWING CONCRETE REMOVAL
LIMITS AT PARAPET

NOTES:

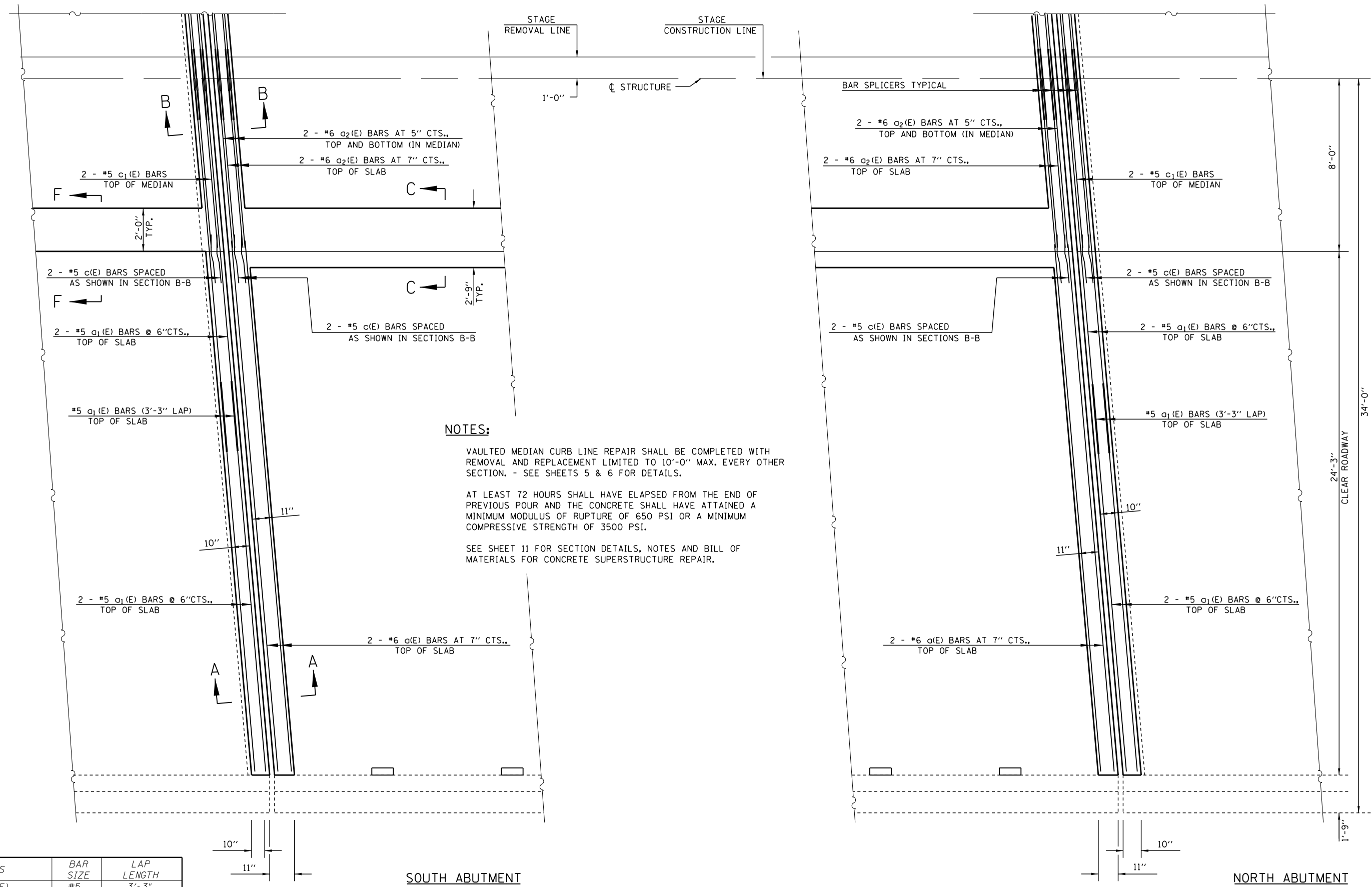
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

THE EXISTING EXPANSION JOINT SYSTEMS SHALL BE REMOVED COMPLETELY, AS WELL AS ANY FOREIGN MATERIAL THAT HAS ACCUMULATED OR BEEN PLACED IN THE JOINT OPENINGS. THE COST FOR THIS WORK IS INCLUDED IN CONCRETE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	37.0

FILE NAME *	USER NAME * shawler	DESIGNED - GMS	REVISED - ESS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE REMOVAL DETAILS S.N. 074-0071	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\p\work\p\sdot\shawler\02412644\0507075_sht-Repair Plans.dgn		DRAWN - GMS	REVISED - ESS			741	(78R)I	PIATT	72	15	
PLOT SCALE * 40.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 70A75					
MODELNAME*		DATE - 10-17-12	REVISED - 5-28-2014			ILLINOIS FED. AID PROJECT					



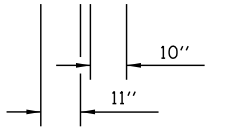
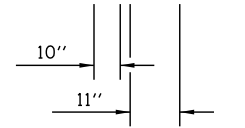
NOTES:

VAULTED MEDIAN CURB LINE REPAIR SHALL BE COMPLETED WITH REMOVAL AND REPLACEMENT LIMITED TO 10'-0" MAX. EVERY OTHER SECTION. - SEE SHEETS 5 & 6 FOR DETAILS.

AT LEAST 72 HOURS SHALL HAVE ELAPSED FROM THE END OF PREVIOUS POUR AND THE CONCRETE SHALL HAVE ATTAINED A MINIMUM MODULUS OF RUPTURE OF 650 PSI OR A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI.

SEE SHEET 11 FOR SECTION DETAILS, NOTES AND BILL OF MATERIALS FOR CONCRETE SUPERSTRUCTURE REPAIR.

BARS	BAR SIZE	LAP LENGTH
a ₁ (E)	#5	3'-3"

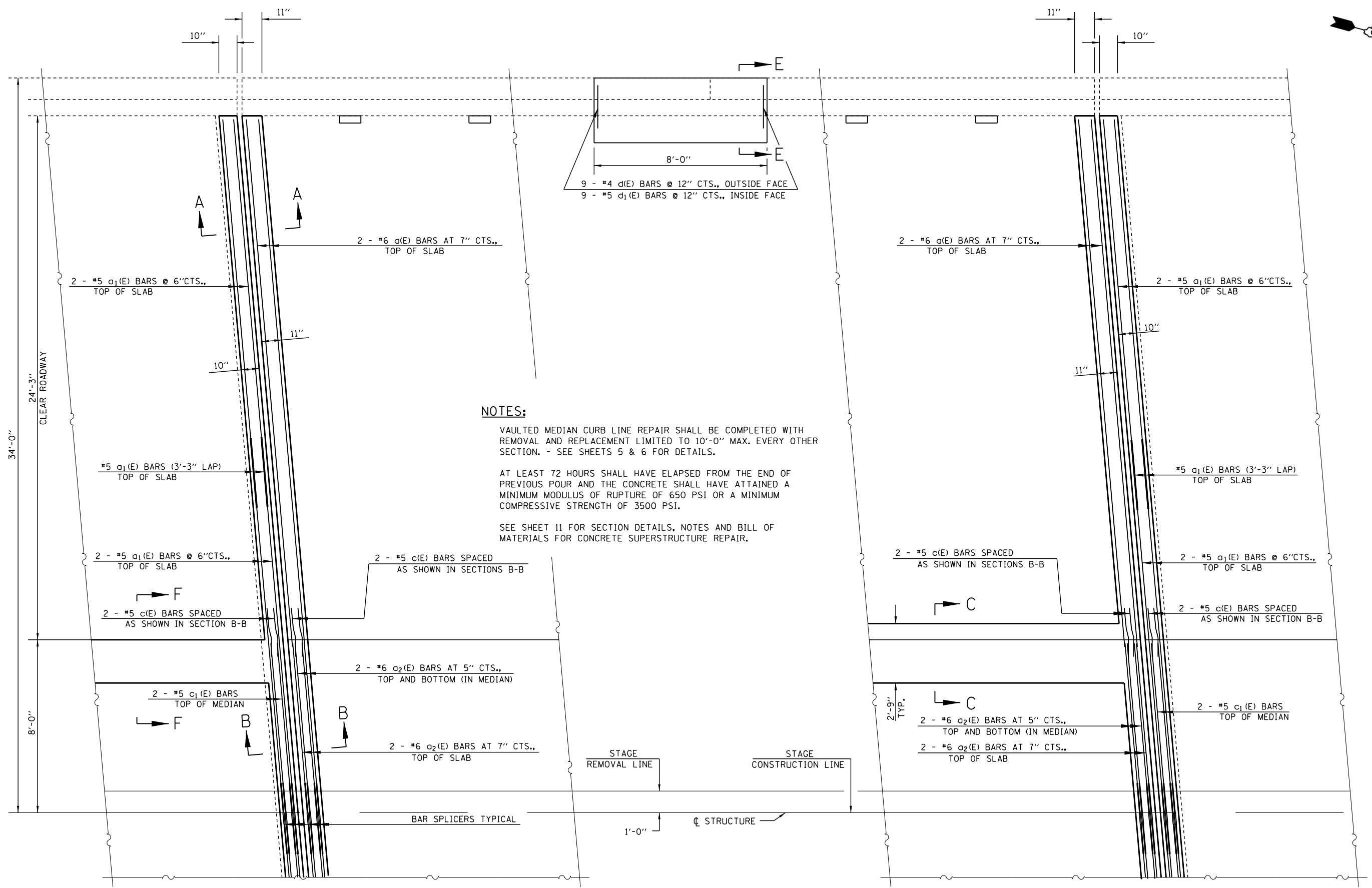


FILE NAME =	USER NAME = showleres	DESIGNED - ESS	REVISED -
c:\pwork\work\pwork\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - ESS	REVISED -
	PLOT SCALE = 40.0024' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 12/2/2014	DATE - 5-27-2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET 9 OF 40 SHEETS		STA.		TO STA.	
				STAGE ONE SUPERSTRUCTURE REPAIR PLAN		S.N. 074-0071	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	16
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				



NOTES:

VAULTED MEDIAN CURB LINE REPAIR SHALL BE COMPLETED WITH REMOVAL AND REPLACEMENT LIMITED TO 10'-0" MAX. EVERY OTHER SECTION. - SEE SHEETS 5 & 6 FOR DETAILS.

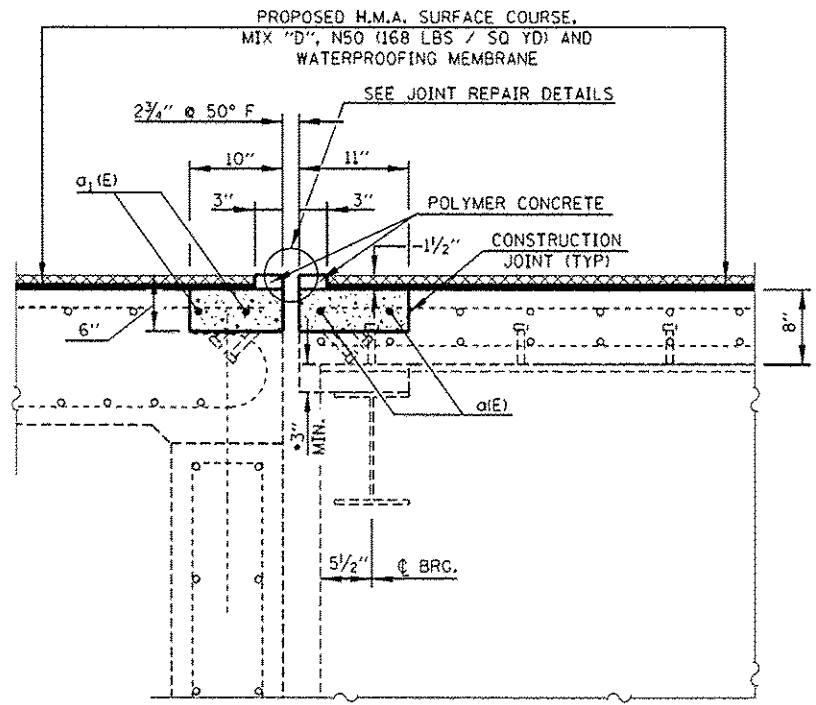
AT LEAST 72 HOURS SHALL HAVE ELAPSED FROM THE END OF PREVIOUS POUR AND THE CONCRETE SHALL HAVE ATTAINED A MINIMUM MODULUS OF RUPTURE OF 650 PSI OR A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI.

SEE SHEET 11 FOR SECTION DETAILS, NOTES AND BILL OF MATERIALS FOR CONCRETE SUPERSTRUCTURE REPAIR.

BARS	BAR SIZE	LAP LENGTH
a ₁ (E)	#5	3'-3"

SOUTH ABUTMENT

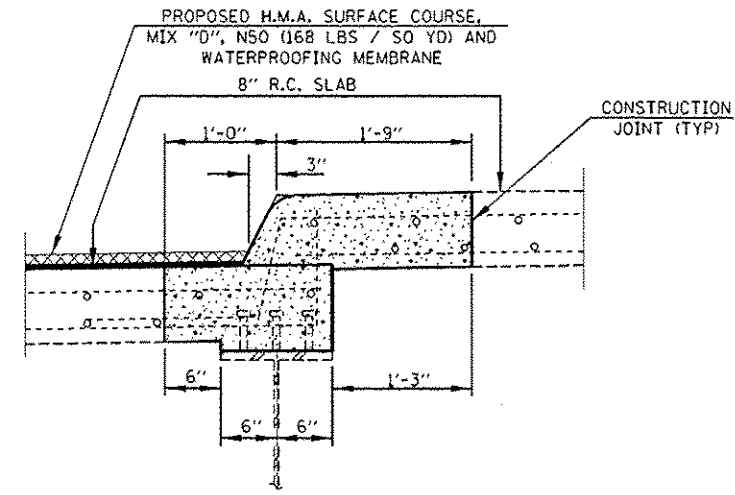
NORTH ABUTMENT



• MINIMUM AT EDGE OF DECK/SLAB
(INCREASES WITH CROSS SLOPE TOWARDS @ BRIDGE)

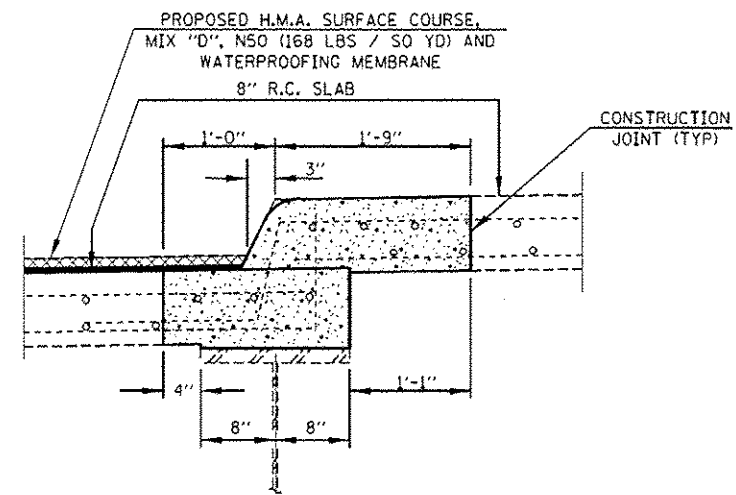
SECTION A-A

SHOWING CONCRETE SUPERSTRUCTURE LIMITS AND REINFORCEMENT AT ABUTMENT / DECK END



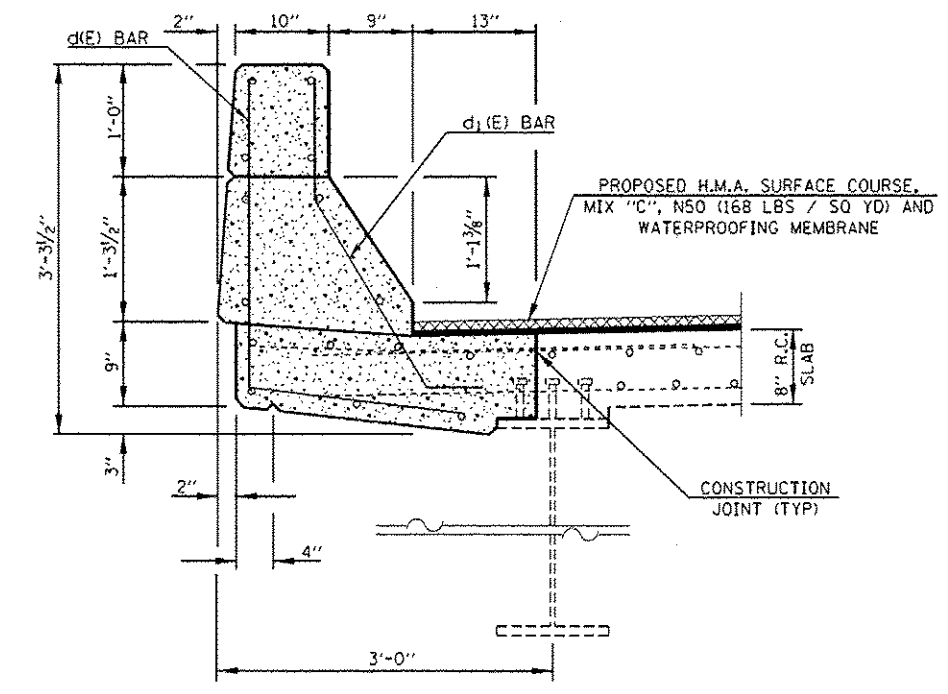
SECTION C-C

SHOWING CONCRETE SUPERSTRUCTURE LIMITS FOR VAULTED MEDIAN CURB LINE NEAR ABUTMENTS



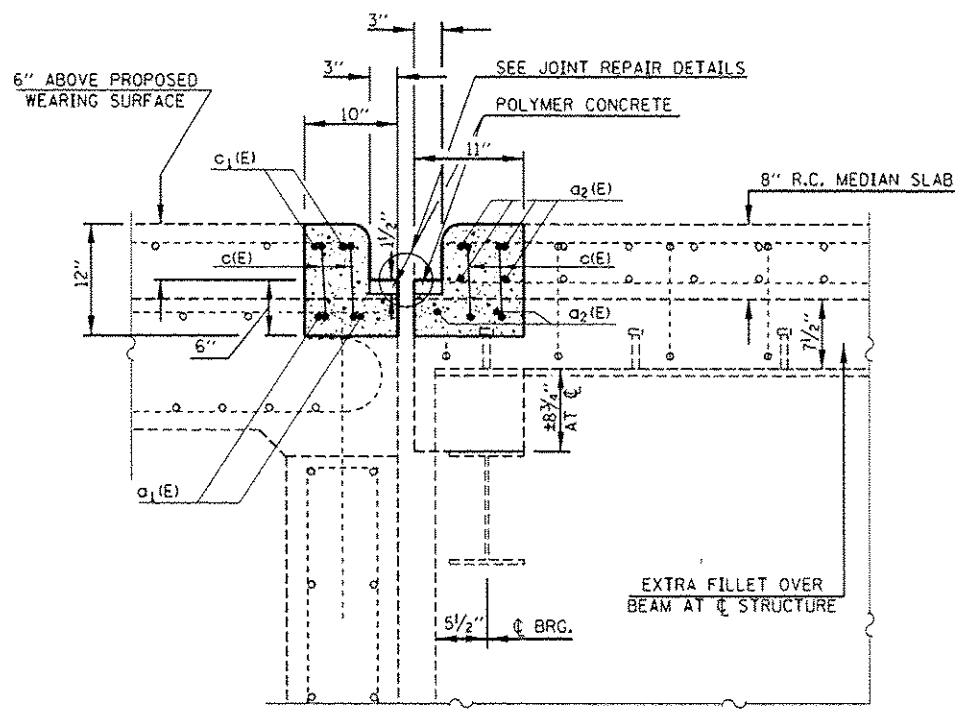
SECTION D-D

SHOWING CONCRETE SUPERSTRUCTURE LIMITS FOR VAULTED MEDIAN CURB LINE NEAR PIER



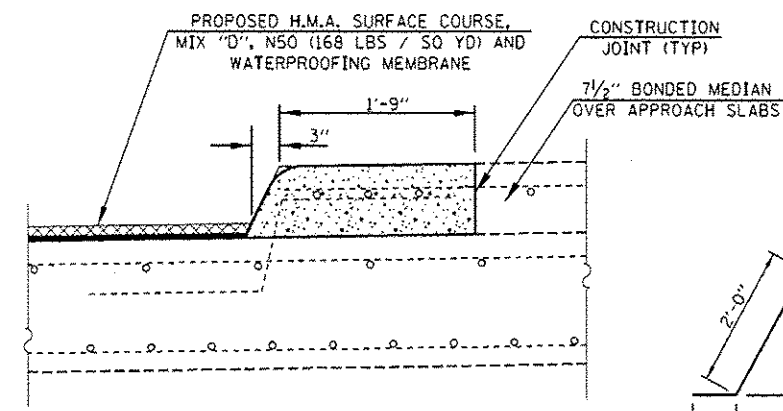
SECTION E-E

SHOWING CONCRETE SUPERSTRUCTURE LIMITS AT PARAPET



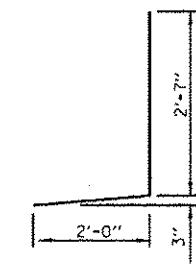
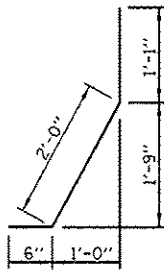
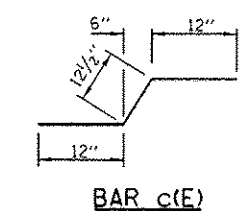
SECTION B-B

SHOWING CONCRETE SUPERSTRUCTURE LIMITS AT ABUTMENT / DECK END AT MEDIAN



SECTION F-F

SHOWING CONCRETE SUPERSTRUCTURE LIMITS FOR MEDIAN CURB LINE OVER APPROACH SPAN



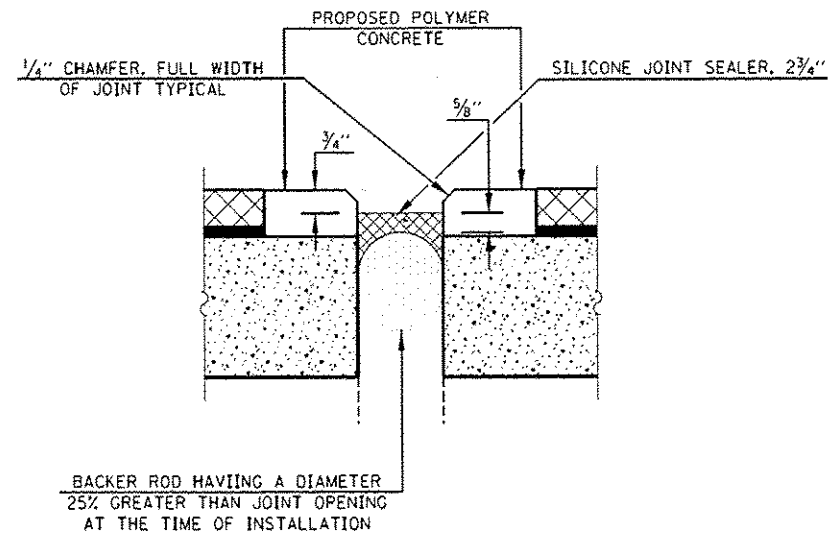
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	8	#6	26'-0"	—
a1(E)	16	#5	19'-10"	—
a2(E)	24	#6	7'-6"	—
c(E)	16	#5	3'-1/2"	—
c1(E)	8	#5	7'-6"	—
d(E)	9	#4	4'-7"	J
d1(E)	9	#5	3'-7"	J
REINFORCEMENT BARS (EPOXY COATED)	POUND	1205.0		
CONCRETE SUPERSTRUCTURE	CU YD	37.0		
PROTECTIVE COAT	SQ YD	136.0		
BAR SPLICERS	EACH	20.0		

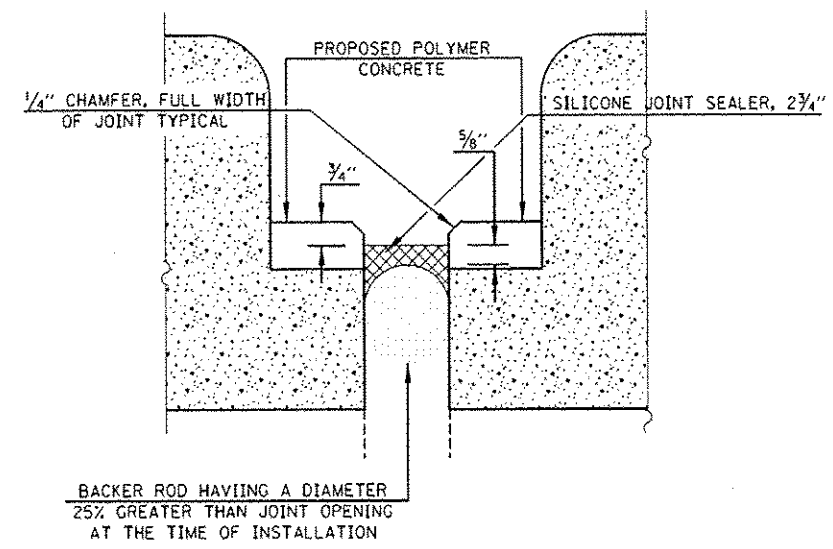
NOTES

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.

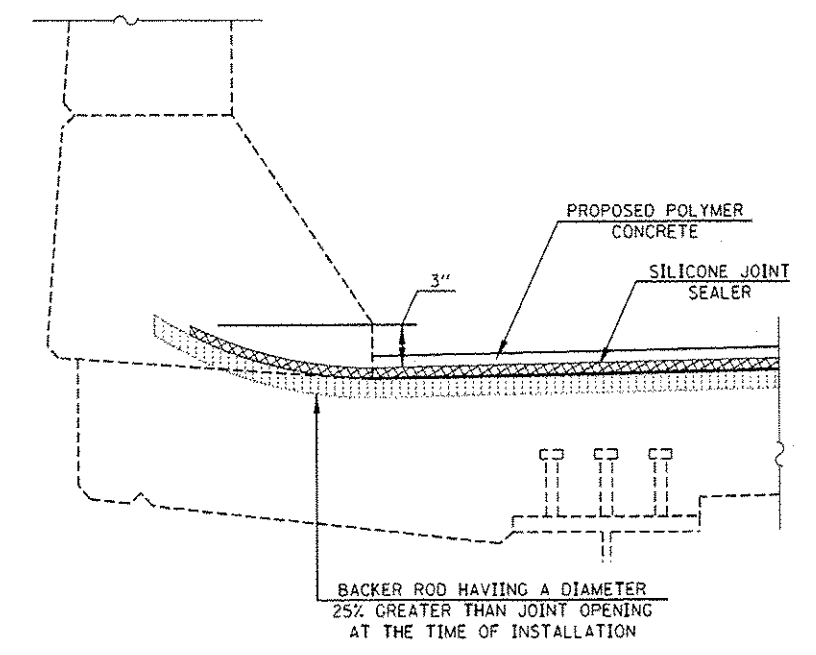
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.



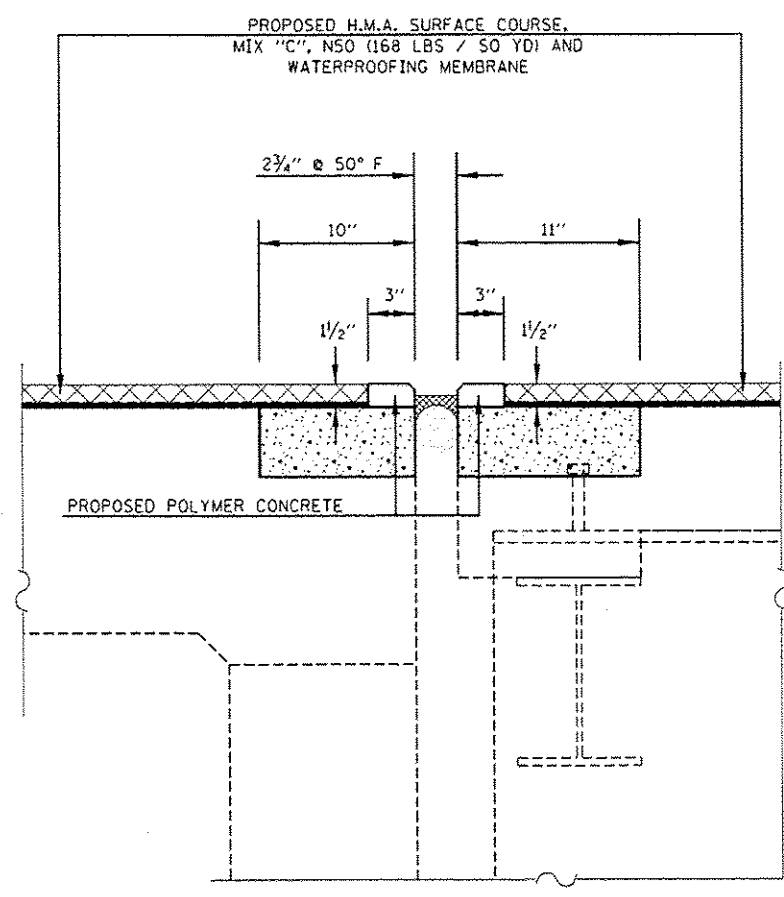
JOINT REPAIR DETAIL



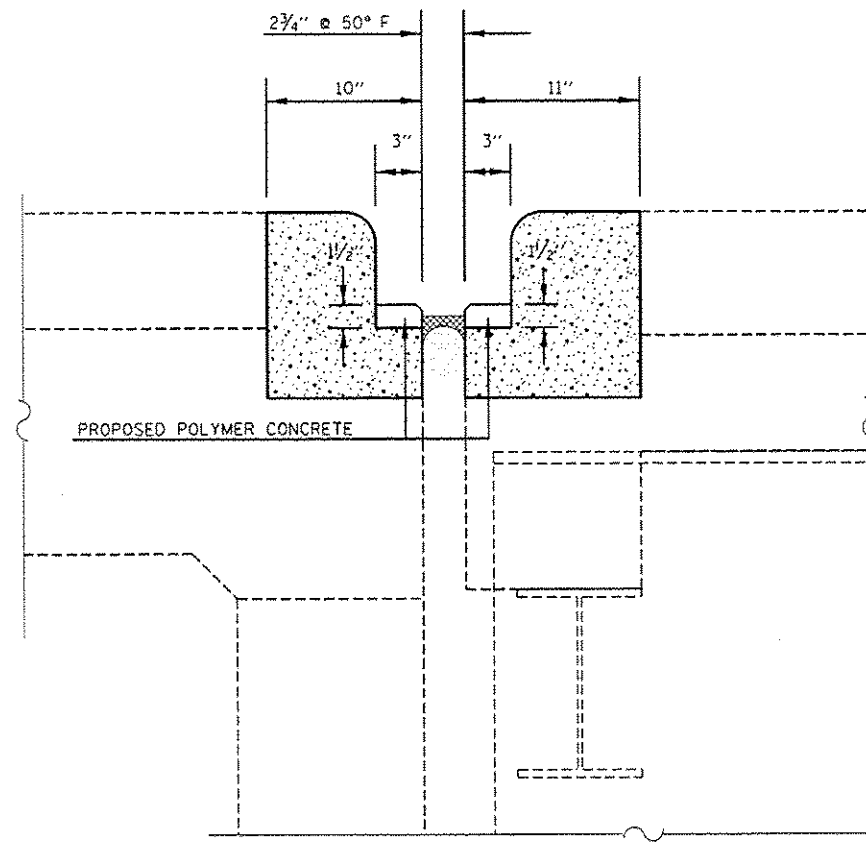
JOINT REPAIR DETAIL THROUGH MEDIAN



SECTION THRU PARAPET



SECTION A-A



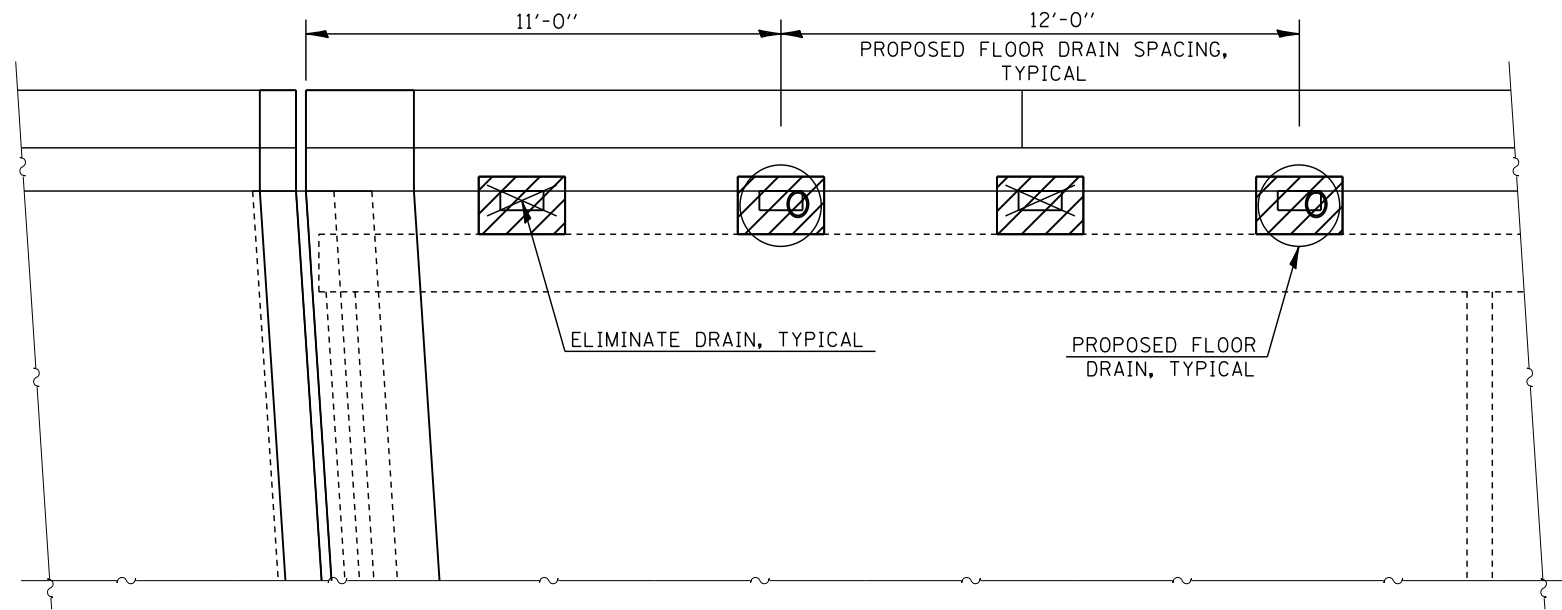
SECTION B-B

NOTES:

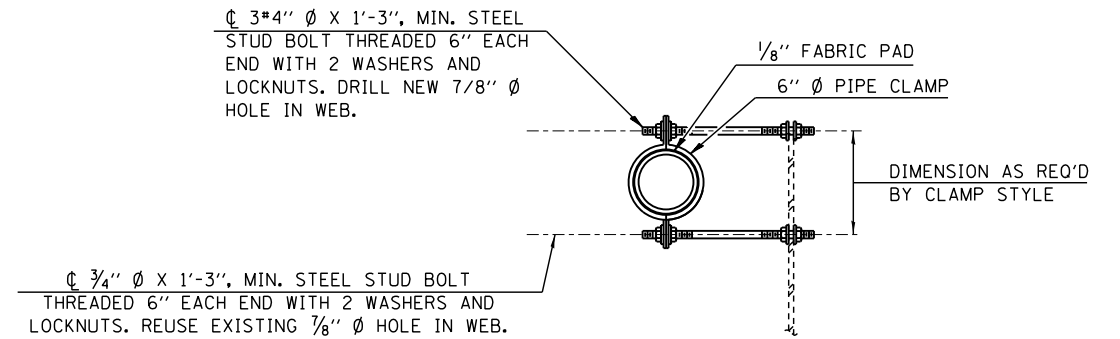
SEE SUPERSTRUCTURE REPAIR DETAILS FOR REINFORCEMENT REQUIRED.

BILL OF MATERIALS

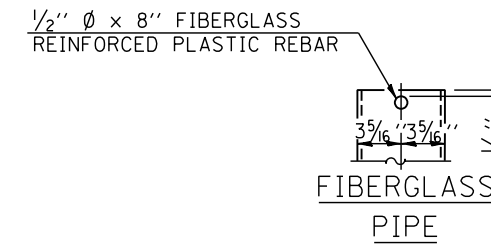
ITEM	UNIT	TOTAL
SILICONE JOINT SEALER, 2.75"	FOOT	136.0
POLYMER CONCRETE	CU FT	8.1



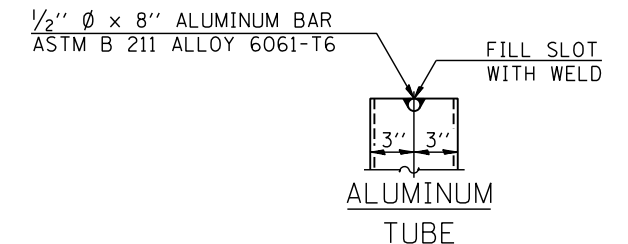
PLAN VIEW OF DRAINS
(TYPICAL EACH END - BOTH SIDES)



SECTION A-A
SHOWING PIPE CLAMP ANCHORAGE STYLE



FIBERGLASS PIPE



ALUMINUM TUBE

LEGEND

- EXISTING DECK DRAINS (TO BE REPLACED WITH FLOOR DRAINS)
- EXISTING DECK DRAINS (TO BE ELIMINATED)
- DECK SLAB REPAIR (FULL DEPTH, TYPE I)

NOTES:

THE EXTERIOR SURFACES OF THE FLOOR DRAINS SHALL BE PAINTED WITH THE FINISH COAT AS SPECIFIED IN THE SPECIAL PROVISIONS FOR CLEANING AND PAINTING NEW METAL STRUCTURES. THE EXTERIOR SURFACES OF THE DRAINS SHALL BE CLEANED ACCORDING TO SOCIETY OF PROTECTIVE COATING'S SPEC. SSPC-SP1 PRIOR TO PAINTING. FIBERGLASS PIPE SHALL CONFORM TO ASTM D 2996, WITH SHORT-TIME RUPTURE STRENGTH HOOP TENSILE STRESS OF 30,000 P.S.I. MINIMUM. GALVANIZE CLAMPING DEVICE ACCORDING TO AASHTO M232. COST OF CLAMPING DEVICE AND GALVANIZING INCLUDED WITH FLOOR DRAINS.

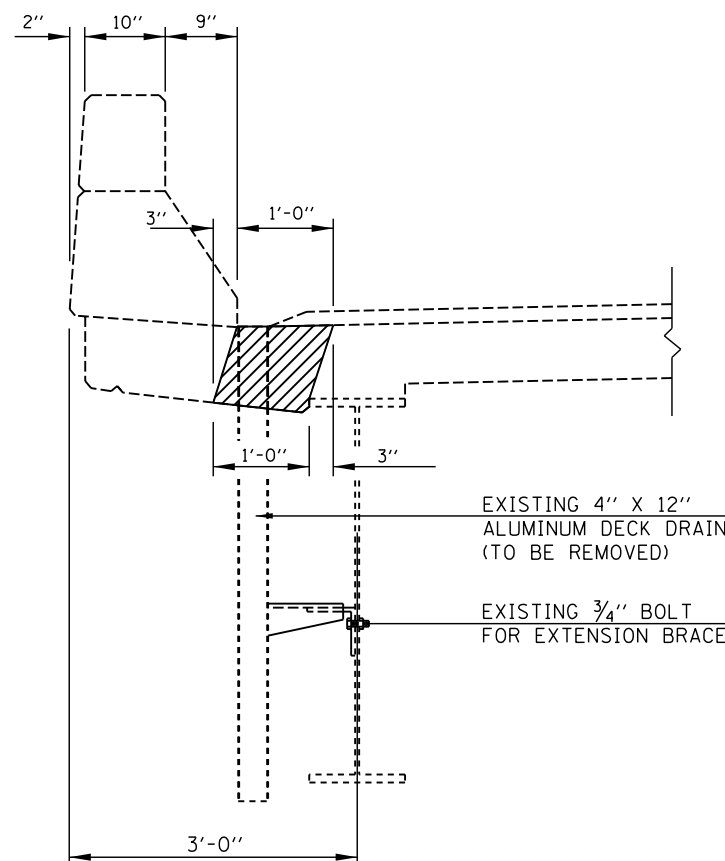
PROPOSED FLOOR DRAIN LOCATIONS HAVE BEEN ADJUSTED APPROXIMATELY 5" TO ALLOW FOR THE REUSE OF THE EXISTING HOLES IN THE STEEL GIRDER WEBS.

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

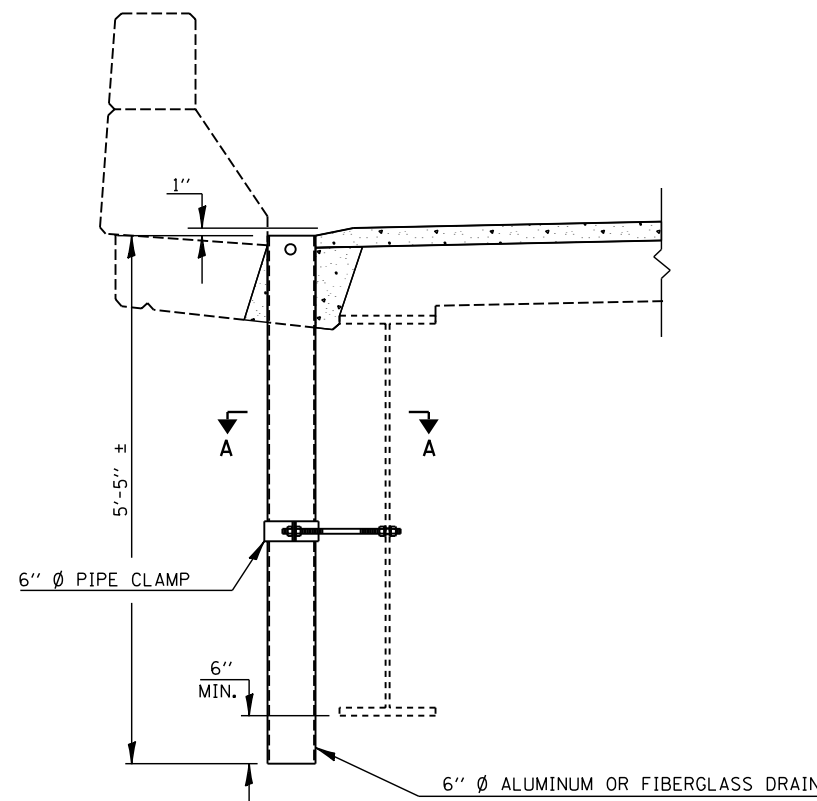
COST OF REMOVAL OF EXISTING DRAINS IS INCLUDED IN DECK SLAB REPAIR. SEE SHEETS 18-19 FOR QUANTITIES OF DECK SLAB REPAIRS AT DRAINS.

BILL OF MATERIAL

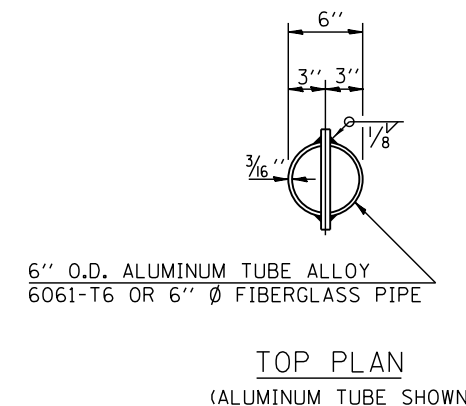
ITEM	UNIT	TOTAL
FLOOR DRAINS	EACH	8



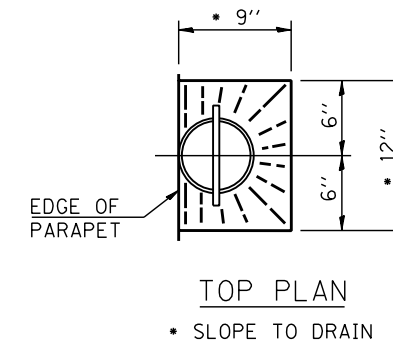
SECTION AT EXISTING DRAIN



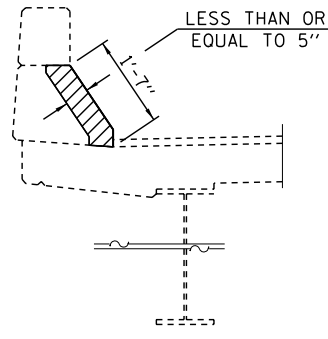
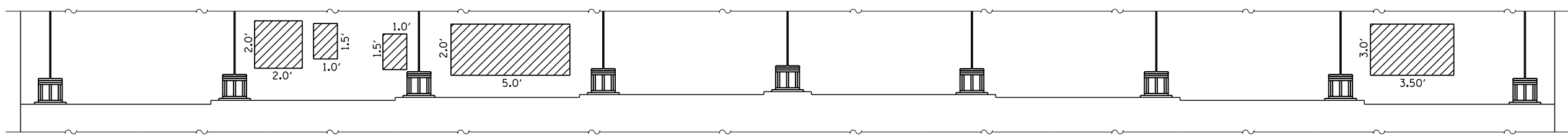
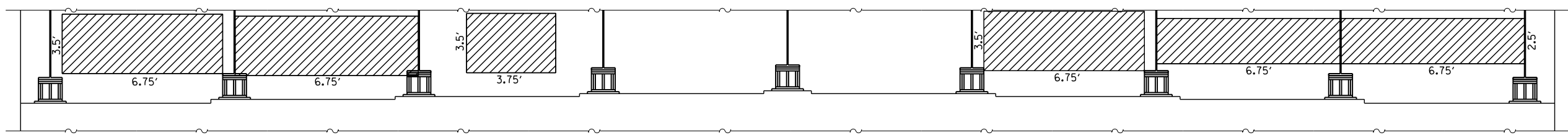
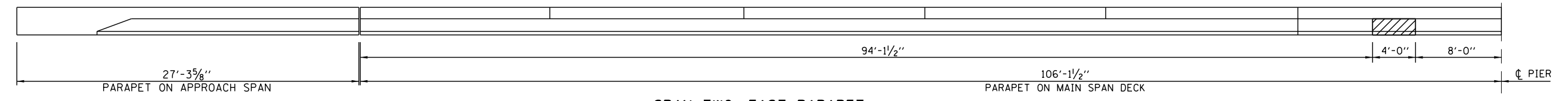
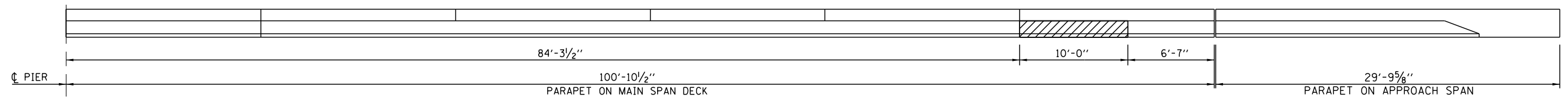
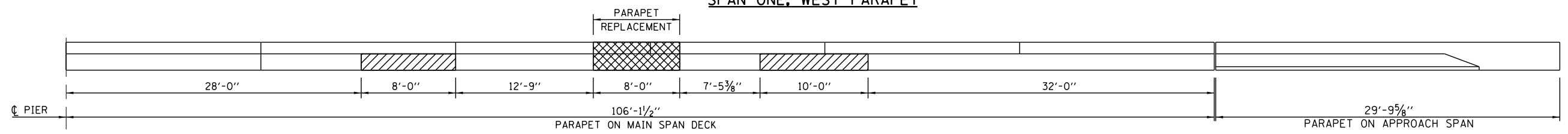
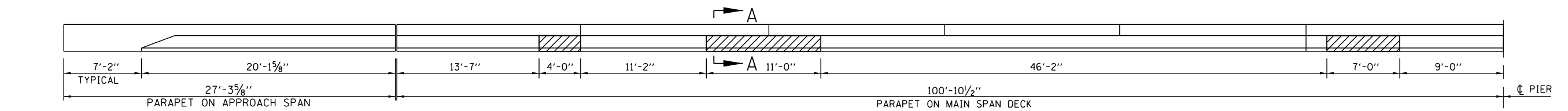
SECTION AT PROPOSED DRAIN



TOP PLAN
(ALUMINUM TUBE SHOWN)



TOP PLAN
• SLOPE TO DRAIN



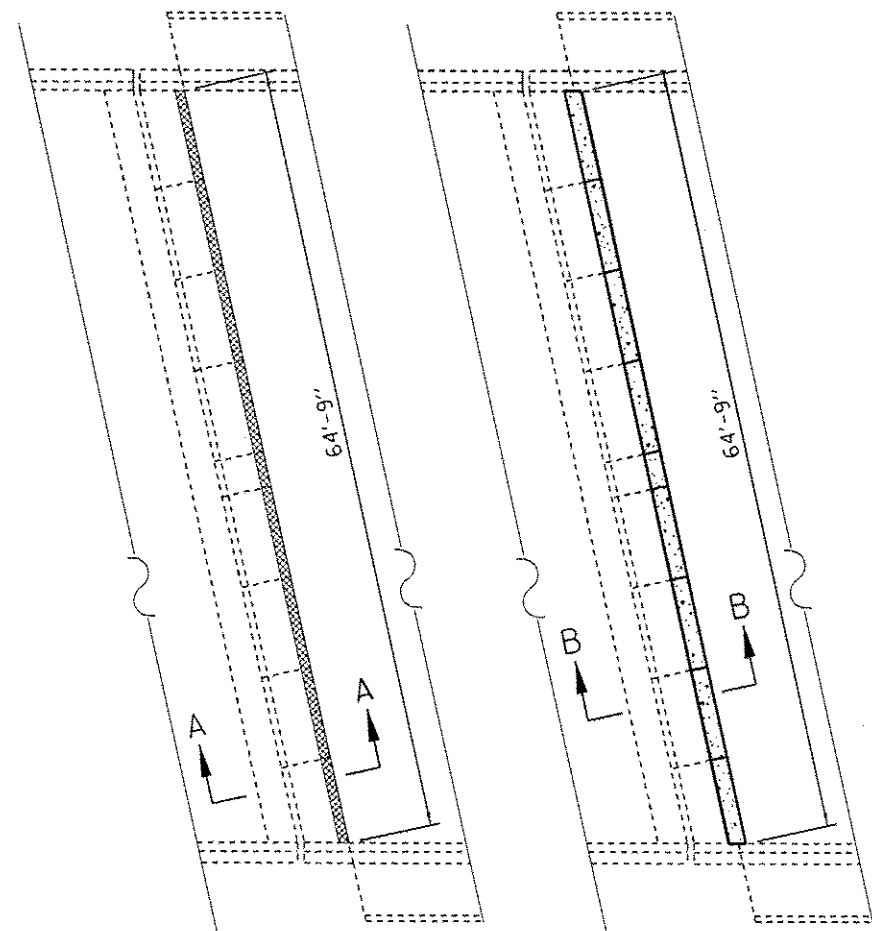
SECTION A-A
SHOWING TYPICAL REMOVAL LIMITS FOR STRUCTURAL REPAIR OF CONCRETE ON PARAPETS

NOTE:
SEE SPECIAL PROVISION FOR STRUCTURAL REPAIR OF CONCRETE.
COST OF PARAPET REPLACEMENT INCLUDED WITH CONCRETE REMOVAL AND SUPERSTRUCTURE CONCRETE.

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

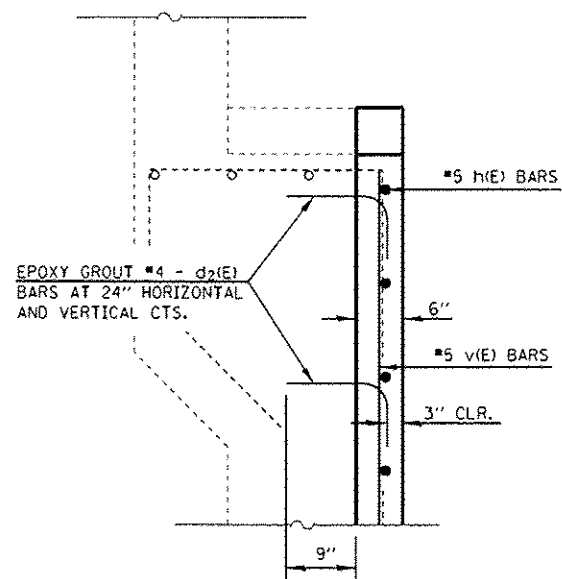
BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE (DEPTH LESS THAN OR EQUAL TO 5")	SQ FT	231.0
PROTECTIVE COAT	SQ YD	25.7



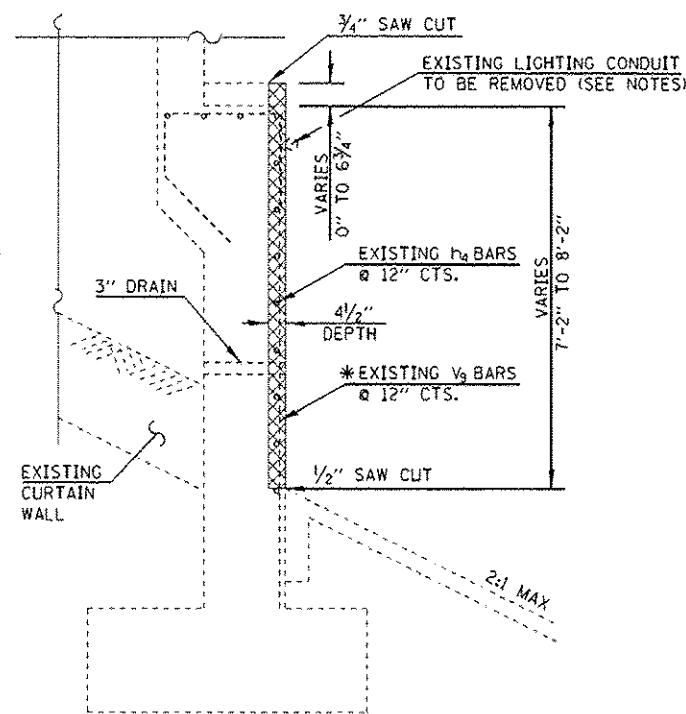
REMOVAL PLAN
SOUTH ABUTMENT

PROPOSED PLAN
SOUTH ABUTMENT

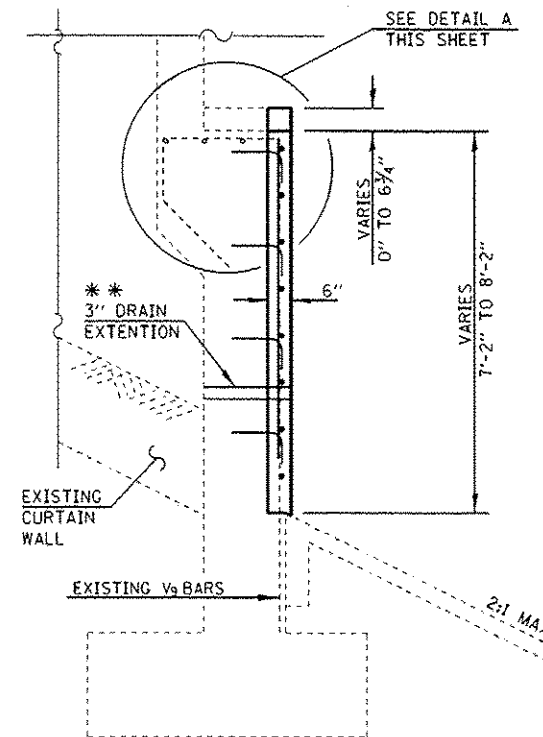


DETAIL A

EPOXY GROUT BARS IN 9" MIN. HOLES
ACCORDING TO ARTICLE 584 OF THE
STANDARD SPECIFICATIONS.



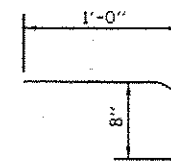
SECTION A-A



SECTION B-B

** EXISTING ABUTMENT DRAINS SHALL BE EXTENDED THRU PROPOSED
ABUTMENT FACE WITH PVC. ESTIMATED PIPE LENGTH 2'-3" TO EXTEND
THRU THE EXISTING ABUTMENT FACE INTO THE VAULTED ABUTMENT. PIPE
DRAIN COST INCLUDED WITH CONCRETE STRUCTURES.

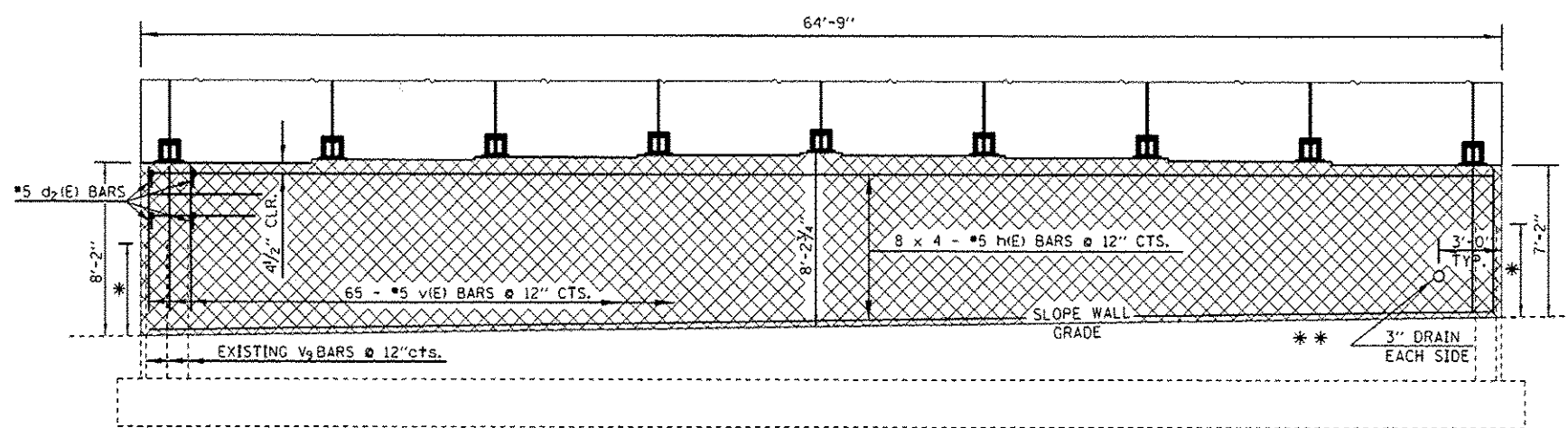
CONCRETE REMOVAL



BAR d2(E)

BILL OF MATERIAL
(FOR SOUTH ABUTMENT)

BAR NO.	SIZE	LENGTH	SHAPE
h(E)	#5	18'-0"	—
d2(E)	#4	1'-8"	⌒
v(E)	#5	6'-6"	—
REINFORCEMENT BARS (EPOXY COATED)			POUND
CONCRETE REMOVAL			CU YD
CONCRETE STRUCTURES			CU YD
PROTECTIVE COAT			SO YD
			1194.0
			7.2
			9.6
			61.0



ELEVATION
SOUTH ABUTMENT

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 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.

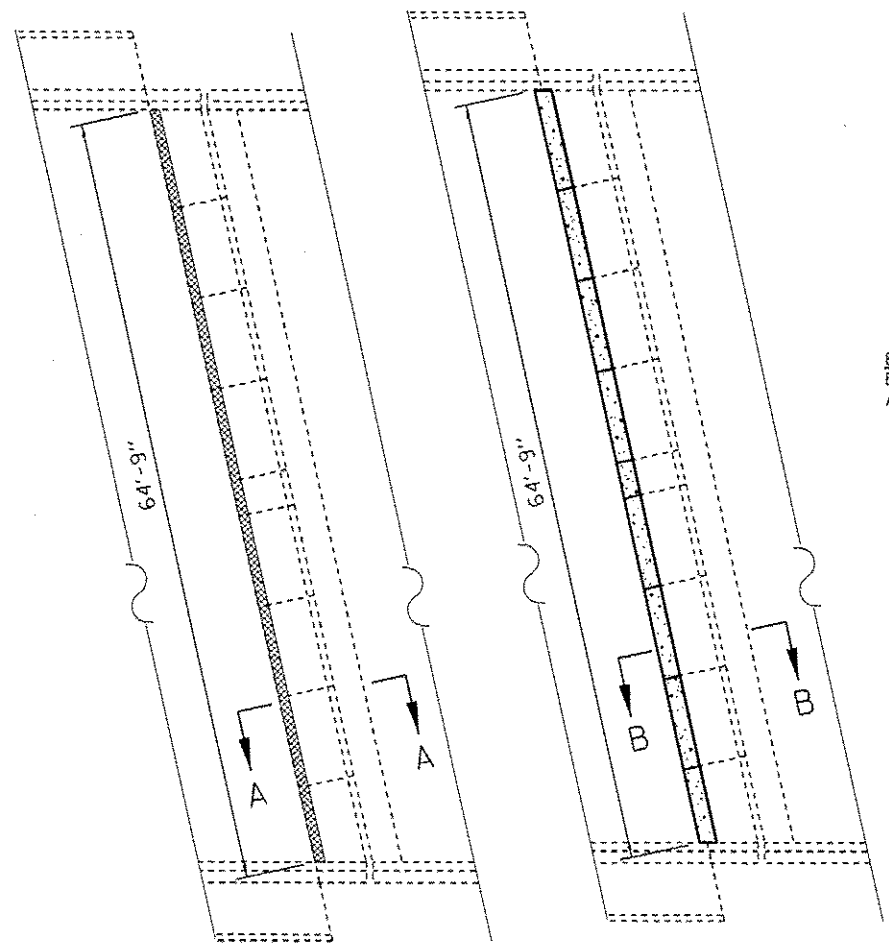
COST FOR REMOVAL OF ELECTRICAL CONDUIT WILL BE INCLUDED WITH CONCRETE REMOVAL.

THE COST OF EPOXY GROUTING BARS SHALL BE INCLUDED WITH REINFORCEMENT BARS (EPOXY COATED).

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

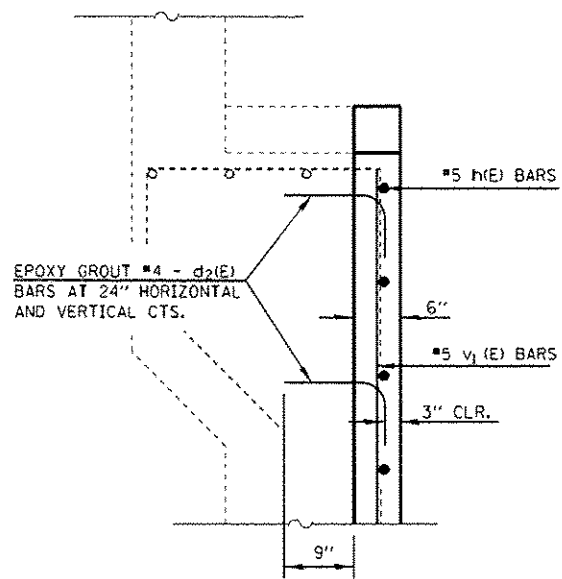
* CUTOFF HEIGHT OF EXISTING v9 BARS ABOVE
CONCRETE REMOVAL LINE IS 4'-4"

BARS	BAR SIZE	LAP LENGTH
h(E)	#5	2'-7"
v(E)	#5	2'-7" Min.



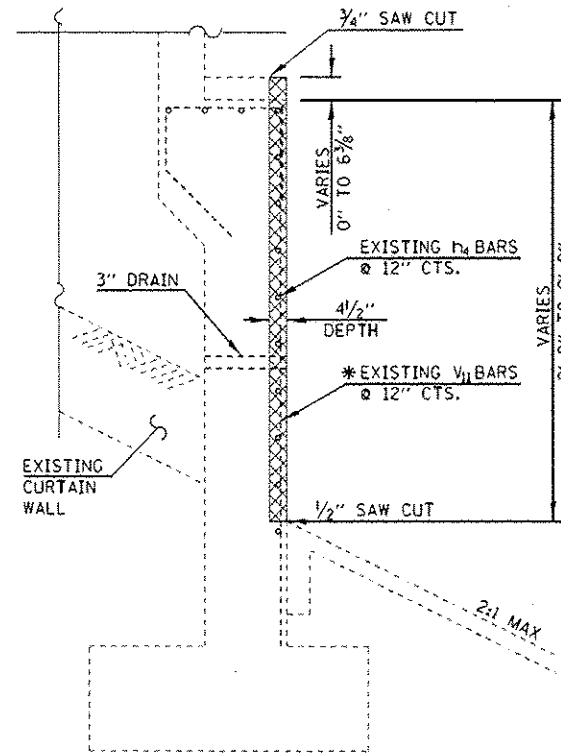
REMOVAL PLAN
SOUTH ABUTMENT

PROPOSED PLAN
SOUTH ABUTMENT

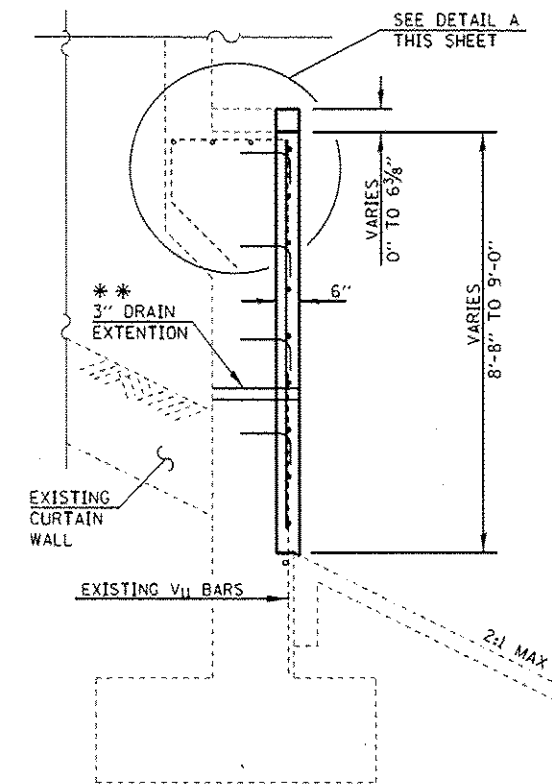


DETAIL A

EPOXY GROUT BARS IN 9" MIN. HOLES
ACCORDING TO ARTICLE 584 OF THE
STANDARD SPECIFICATIONS.



SECTION A-A



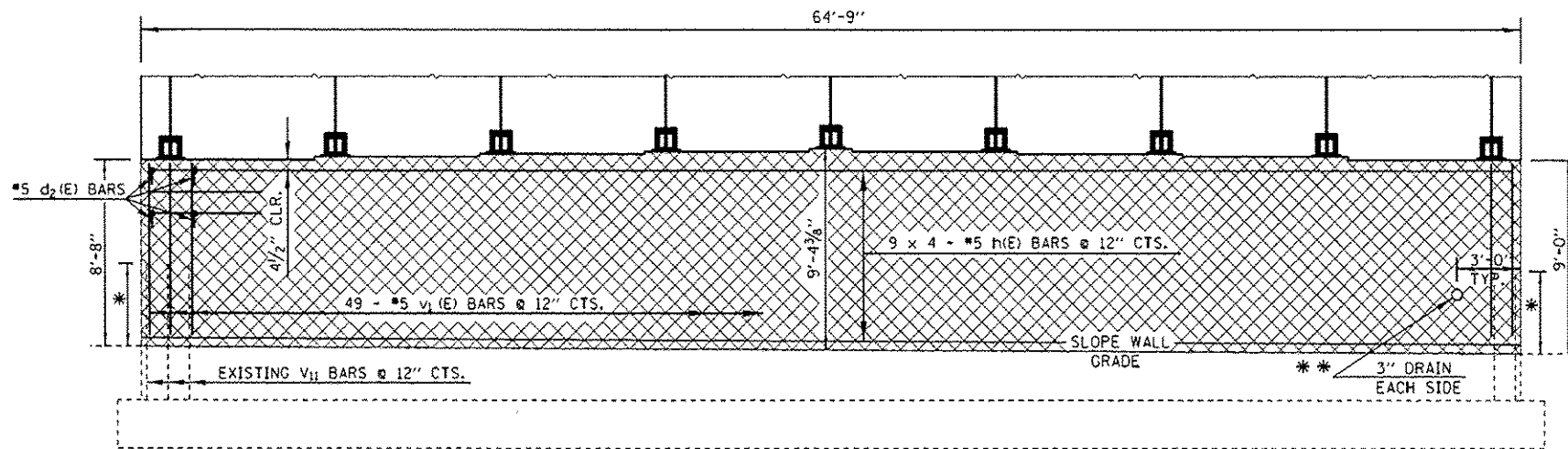
SECTION B-B

** EXISTING ABUTMENT DRAINS SHALL BE EXTENDED THRU PROPOSED
ABUTMENT FACE WITH PVC. ESTIMATED PIPE LENGTH 2'-3" TO EXTEND
THRU THE EXISTING ABUTMENT FACE INTO THE VAULTED ABUTMENT. PIPE
DRAIN COST INCLUDED WITH CONCRETE STRUCTURES.

CONCRETE REMOVAL

BILL OF MATERIAL
(FOR NORTH ABUTMENT)

BAR NO.	SIZE	LENGTH	SHAPE
h(E)	#5	18'-0"	—
d2(E)	#4	1'-8"	┘
v1(E)	#5	7'-6"	—
REINFORCEMENT BARS (EPOXY COATED)			POUND
CONCRETE REMOVAL			CU YD
CONCRETE STRUCTURES			CU YD
PROTECTIVE COAT			SQ YD
			1336.0
			8.2
			11.0
			70.0



ELEVATION
NORTH ABUTMENT

BARS	BAR SIZE	LAP LENGTH
h(E)	#5	2'-7"
v1(E)	#5	2'-7" Min.

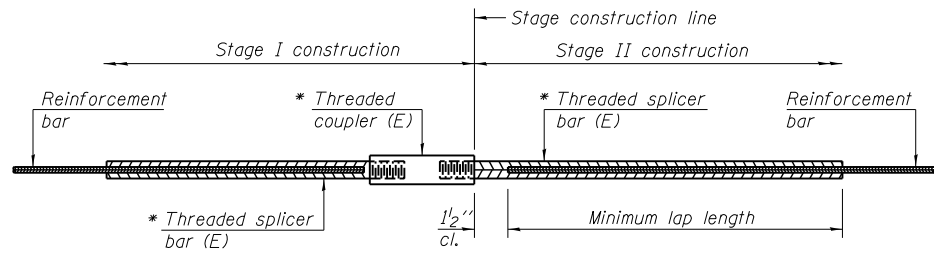
* CUTOFF HEIGHT OF EXISTING V11 BARS ABOVE
CONCRETE REMOVAL LINE IS 3'-10"

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 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.

THE COST OF EPOXY GROUTING BARS SHALL BE INCLUDED WITH REINFORCEMENT BARS (EPOXY COATED).

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.



STANDARD BAR SPLICER ASSEMBLY

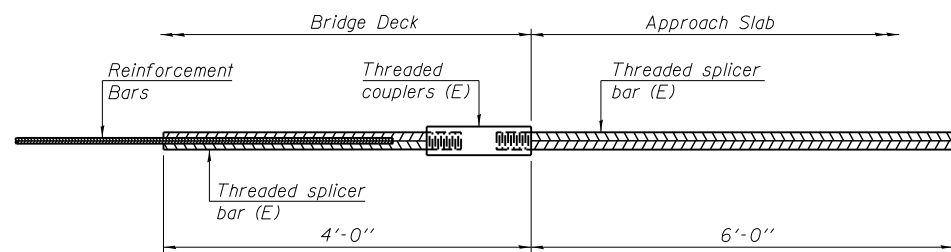
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

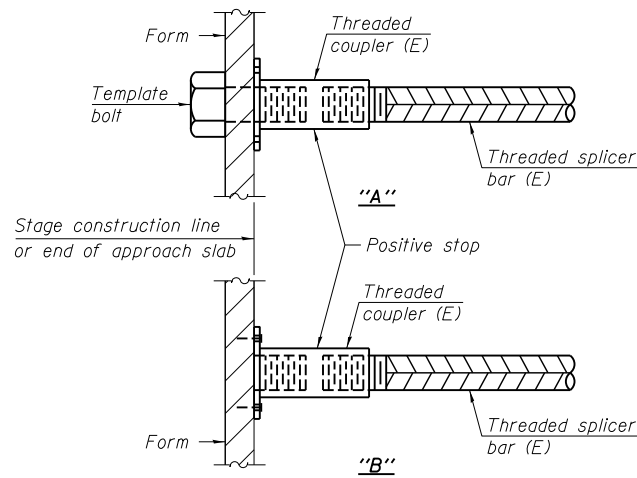
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Structure No.	Location	Bar size	No. assemblies required	Table for minimum lap length
074-0071	HATCH BLOCK	#5	8	3
	DECK END	#6	12	3



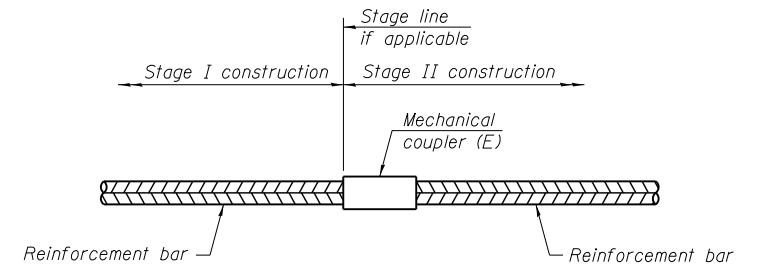
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



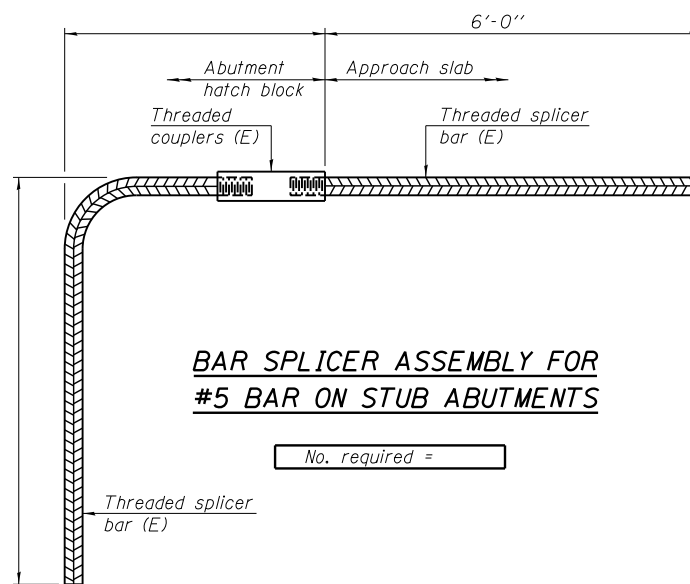
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1 1-27-12

FILE NAME =	USER NAME = showleres	DESIGNED -	REVISED -
ci:\pwork\pwork\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN -	REVISED -
PLOT SCALE = 40.0024' / in.		CHECKED -	REVISED -
PLOT DATE = 12/2/2014		DATE -	REVISED -

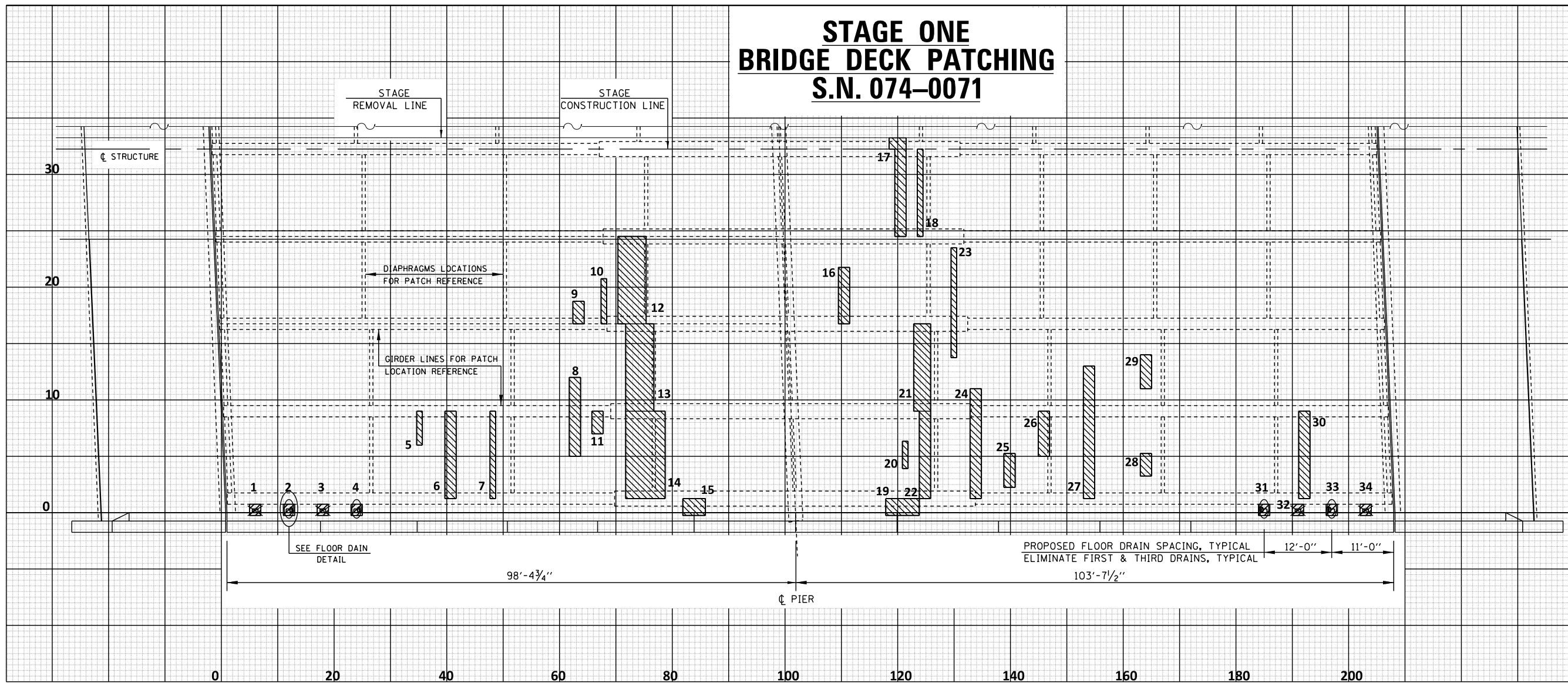
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 074-0071

SCALE: SHEET 17 OF 40 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	24
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				

STAGE ONE BRIDGE DECK PATCHING S.N. 074-0071



LEGEND

- DECK SLAB REPAIR (FULL-DEPTH)
- EXISTING DECK DRAINS (TO BE ELIMINATED)
- EXISTING DECK DRAINS (TO BE REPLACED WITH FLOOR DRAINS)

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
1	1.00 * 2.00		2.00	
2	1.00 * 2.00		2.00	
3	1.00 * 2.00		2.00	
4	1.00 * 2.00		2.00	
5	3.00 * 1.00		3.00	
6	7.75 * 2.00			15.50
7	7.75 * 1.00			7.75
8	7.00 * 2.00			14.00
9	2.00 * 2.00		4.00	
10	4.00 * 1.00		4.00	
11	2.00 * 2.00		4.00	
12	7.75 * 5.00			38.75
13	7.75 * 5.00			38.75
14	7.75 * 7.00			54.25
15	1.50 * 4.00			6.00
16	5.00 * 2.00			10.00
17	8.25 * 2.60			21.45
18	7.75 * 1.00			7.75

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
19	1.50 * 6.00			9.00
20	2.50 * 1.00		2.50	
21	7.75 * 3.00			23.25
22	7.75 * 2.00			15.50
23	9.75 * 1.00			9.75
24	9.75 * 2.00			19.50
25	3.00 * 2.00			6.00
26	4.00 * 2.00			8.00
27	11.75 * 2.00			23.50
28	2.00 * 2.00		4.00	
29	3.00 * 2.00			6.00
30	7.75 * 2.00			15.50
31	1.00 * 2.00		2.00	
32	1.00 * 2.00		2.00	
33	1.00 * 2.00		2.00	
34	1.00 * 2.00		2.00	

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
STAGE ONE PATCHING TOTALS				
PARTIAL DEPTH ESTIMATED				
USE 34 SQ YD				
FULL DEPTH, TYPE 1				
37.5 / 9 = 4.2				
USE 5.0 SQ YD				
FULL DEPTH, TYPE 2				
350.2 / 9 = 38.9				
USE 42.0 SQ YD				

DECK SURVEY PERFORMED ON SEPTEMBER 13, 2012. THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.

DECK SLAB REPAIR (PARTIAL) IS AN ESTIMATED QUANTITY

PATCHES ACTUAL SIZE AND LOCATION SHOULD BE SHOWN ON THIS SHEET.

STAGE ONE BILL OF MATERIALS

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (FULL DEPTH, TY I)	SQ YD	5.0
DECK SLAB REPAIR (FULL DEPTH, TY II)	SQ YD	42.0
DECK SLAB REPAIR (PARTIAL)	SQ YD	34.0

0071

FILE NAME = c:\pwork\pwidot\shawleres\d0412844\0570775_sht-Repair Plans.dgn
 USER NAME = shawleres
 PLOT SCALE = 40.0024' / in.
 PLOT DATE = 12/2/2014

DESIGNED - ESS REVISED -
 DRAWN - ESS REVISED -
 CHECKED - REVISED -
 DATE - 7-22-2013 REVISED -

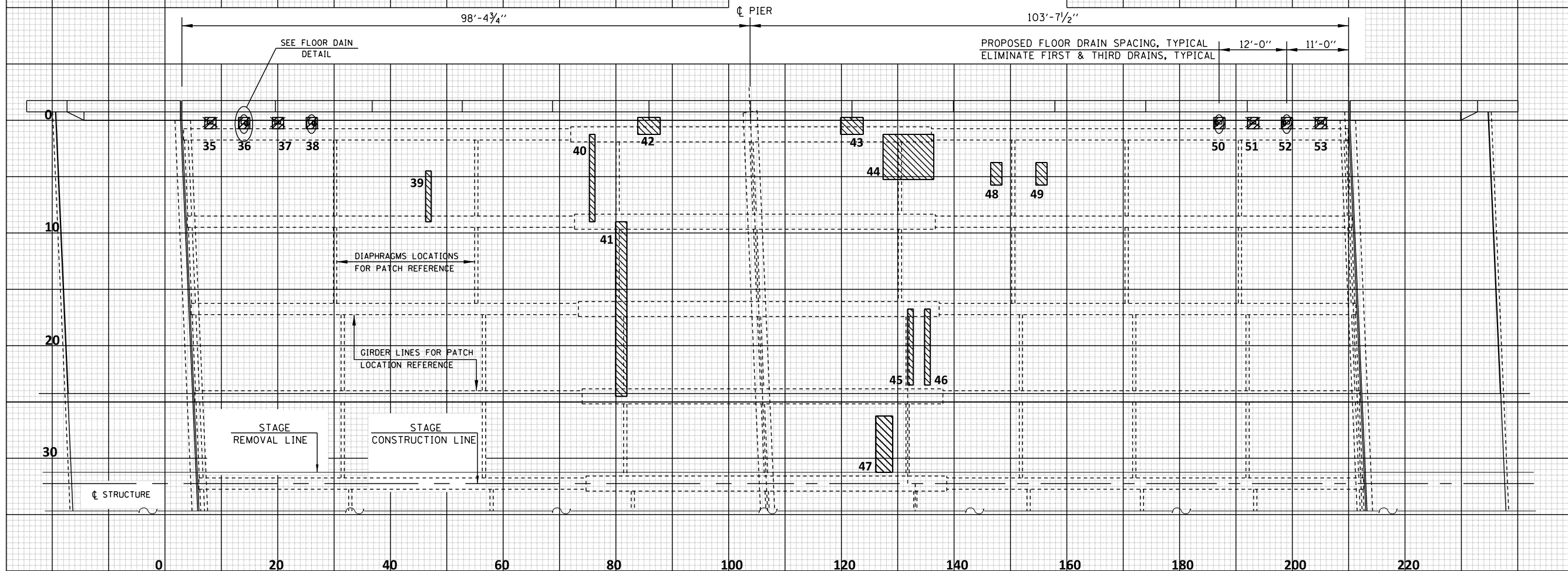
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE ONE BRIDGE DECK PATCHING
S.N. 074-0071**

SCALE: SHEET NO. 18 OF 40 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	25
CONTRACT NO. 70A75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STAGE TWO BRIDGE DECK PATCHING S.N. 074-0071



LEGEND

- DECK SLAB REPAIR (FULL-DEPTH)
- EXISTING DECK DRAINS (TO BE ELIMINATED)
- EXISTING DECK DRAINS (TO BE REPLACED WITH FLOOR DRAINS)

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
35	1.00 * 2.00		2.00	
36	1.00 * 2.00		2.00	
37	1.00 * 2.00		2.00	
38	1.00 * 2.00		2.00	
39	4.50 * 1.00		4.50	
40	7.75 * 1.00			7.75
41	15.50 * 2.00			31.00
42	1.50 * 4.00			6.00
43	1.50 * 4.00			6.00
44	4.00 * 9.00			36.00

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
45	6.75 * 1.00			6.75
46	6.75 * 1.00			6.75
47	5.00 * 3.00			15.00
48	2.00 * 2.00		4.00	
49	2.00 * 2.00		4.00	
50	1.00 * 2.00		2.00	
51	1.00 * 2.00		2.00	
52	1.00 * 2.00		2.00	
53	1.00 * 2.00		2.00	

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
STAGE ONE PATCHING TOTALS				
PARTIAL DEPTH ESTIMATED				
USE 34 SQ YD				
FULL DEPTH, TYPE 1				
28.5 / 9 = 3.2				
USE 4.0 SQ YD				
FULL DEPTH, TYPE 2				
115.3 / 9 = 12.8				
USE 16.0 SQ YD				

DECK SURVEY PERFORMED ON SEPTEMBER 13, 2012. THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.

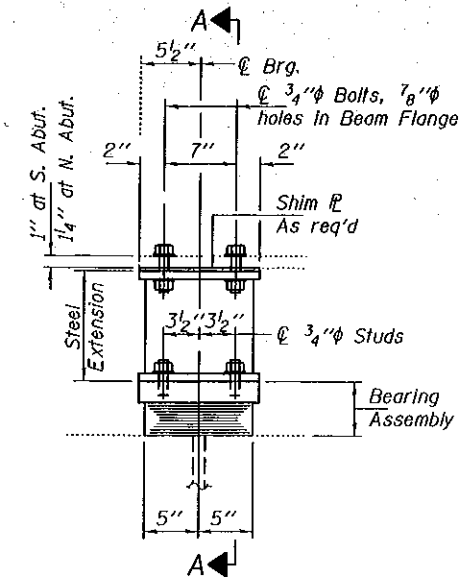
DECK SLAB REPAIR (PARTIAL) IS AN ESTIMATED QUANTITY

PATCHS ACTUAL SIZE AND LOCATION SHOULD BE SHOWN ON THIS SHEET.

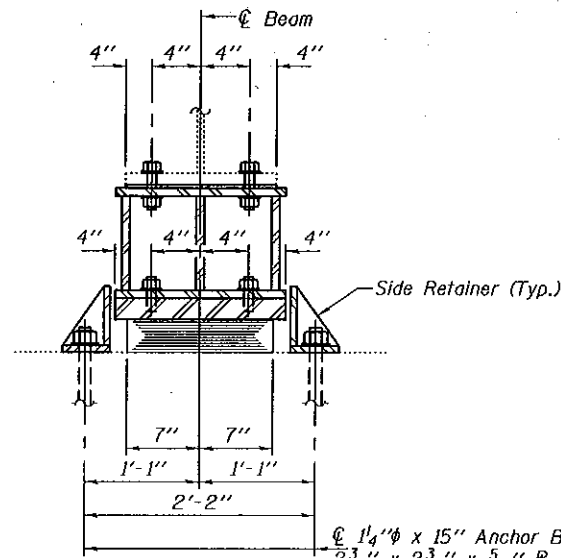
STAGE TWO BILL OF MATERIALS

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (FULL DEPTH, TY I)	SQ YD	4.0
DECK SLAB REPAIR (FULL DEPTH, TY II)	SQ YD	16.0
DECK SLAB REPAIR (PARTIAL)	SQ YD	34.0

0071

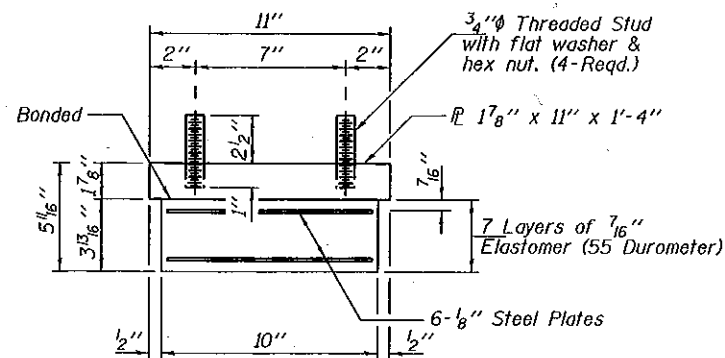


ELEVATION AT ABUTMENT



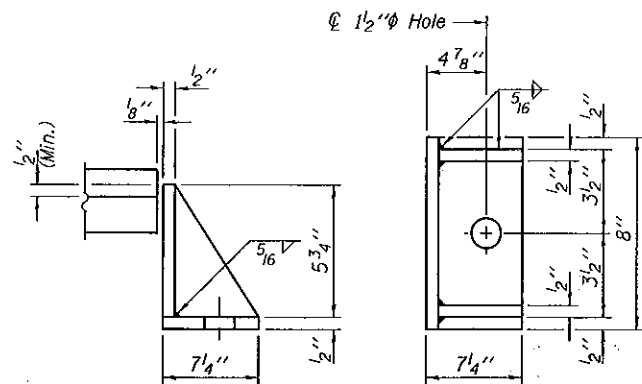
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

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



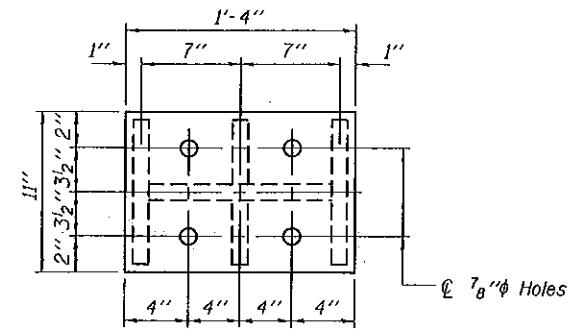
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

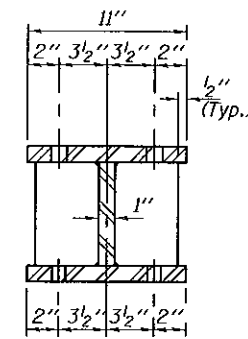
BEAM REACTIONS

RP	(K)	51.9
Rt	(K)	50.9
Imp.	(K)	11.0
R (Total)	(K)	113.8

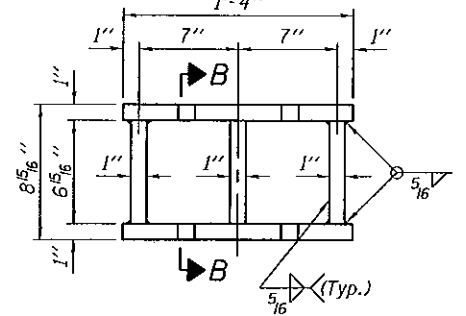
Notes:
Diaphragm removal and installation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 65 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type I.



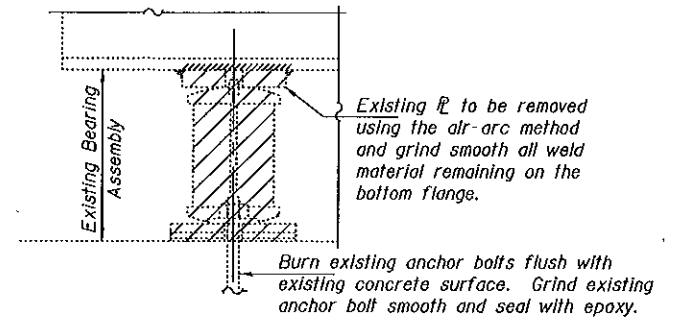
PLAN TOP AND BOTTOM PLATE



SECTION B-B



STEEL EXTENSION DETAIL



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL
(2 ABUTMENTS)

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	18
Jack and Remove Existing Bearings	Each	18
Furnishing and Erecting Structural Steel	Pound	3320
Anchor Bolts 1 1/4\"/>		

PRE-FINAL

DATE: 11/1/2012

TYI/REPS 12-03-2008

DESIGNED VHV
CHECKED DAB
DRAWN baliva
CHECKED VHV DAB

EXAMINED
PASSED
ACTING ENGINEER OF STRUCTURAL SERVICES
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - NOVEMBER 1, 2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

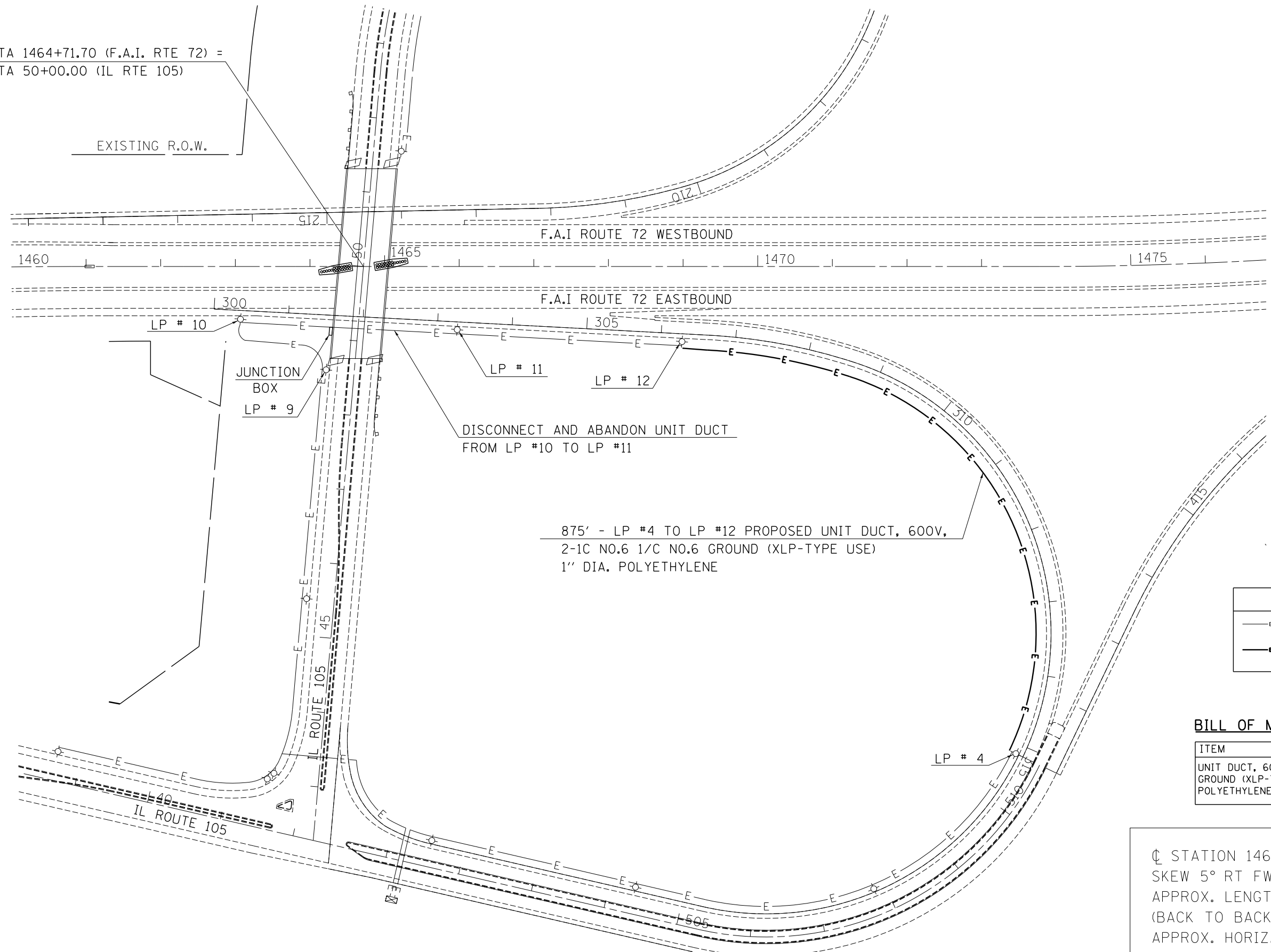
ABUTMENT BEARING REPLACEMENT DETAILS
SN 074-0071

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
T2 - - PIATT - - CONTRACT NO.
SHEET NO. OF SHEETS ILLINOIS FED. AID PROJECT



STA 1464+71.70 (F.A.I. RTE 72) =
STA 50+00.00 (IL RTE 105)

EXISTING R.O.W.



DISCONNECT AND ABANDON UNIT DUCT
FROM LP #10 TO LP #11

875' - LP #4 TO LP #12 PROPOSED UNIT DUCT, 600V,
2-1C NO.6 1/C NO.6 GROUND (XLP-TYPE USE)
1" DIA. POLYETHYLENE

SYMBOLS	
	EXISTING UNIT DUCT
	PROPOSED UNIT DUCT

BILL OF MATERIALS

ITEM	UNIT	TOTAL
UNIT DUCT, 600V, 2-1C NO.6 1/C NO.6 GROUND (XLP-TYPE USE) 1" DIA. POLYETHYLENE	FOOT	875.0

⊕ STATION 1464+71.70 (F.A.I. ROUTE 72)
SKEW 5° RT FWD
APPROX. LENGTH 255'-3"
(BACK TO BACK APPR. BENTS)
APPROX. HORIZ. CLEARANCE 68'-0"
STRUCTURE NO. 074-0071

FILE NAME =	USER NAME = showleres	DESIGNED -	REVISED -
ct:\pw\work\p\id\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - CADD	REVISED - ESS
\$MODELNAME\$	PLOT SCALE = 120.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/2/2014	DATE -	REVISED - 10-29-2014

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

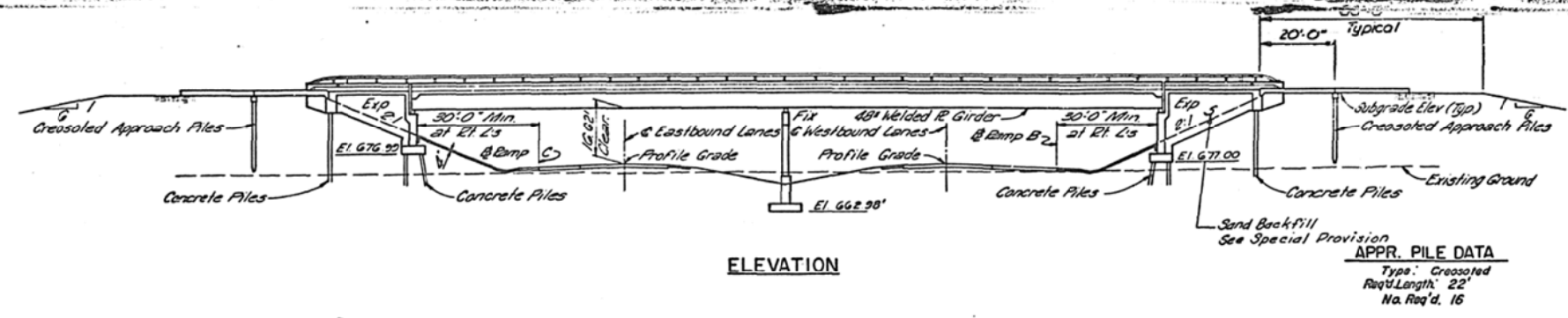
UNIT DUCT LAYOUT
SCALE: SHEET NO. 21 OF 40 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	28
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				

AS-BUILT PLANS FOR INFORMATION ONLY

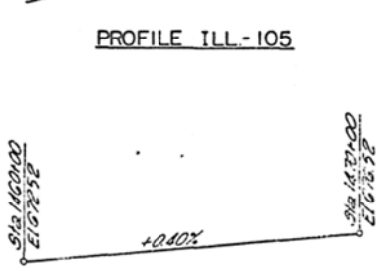
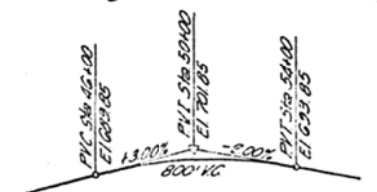
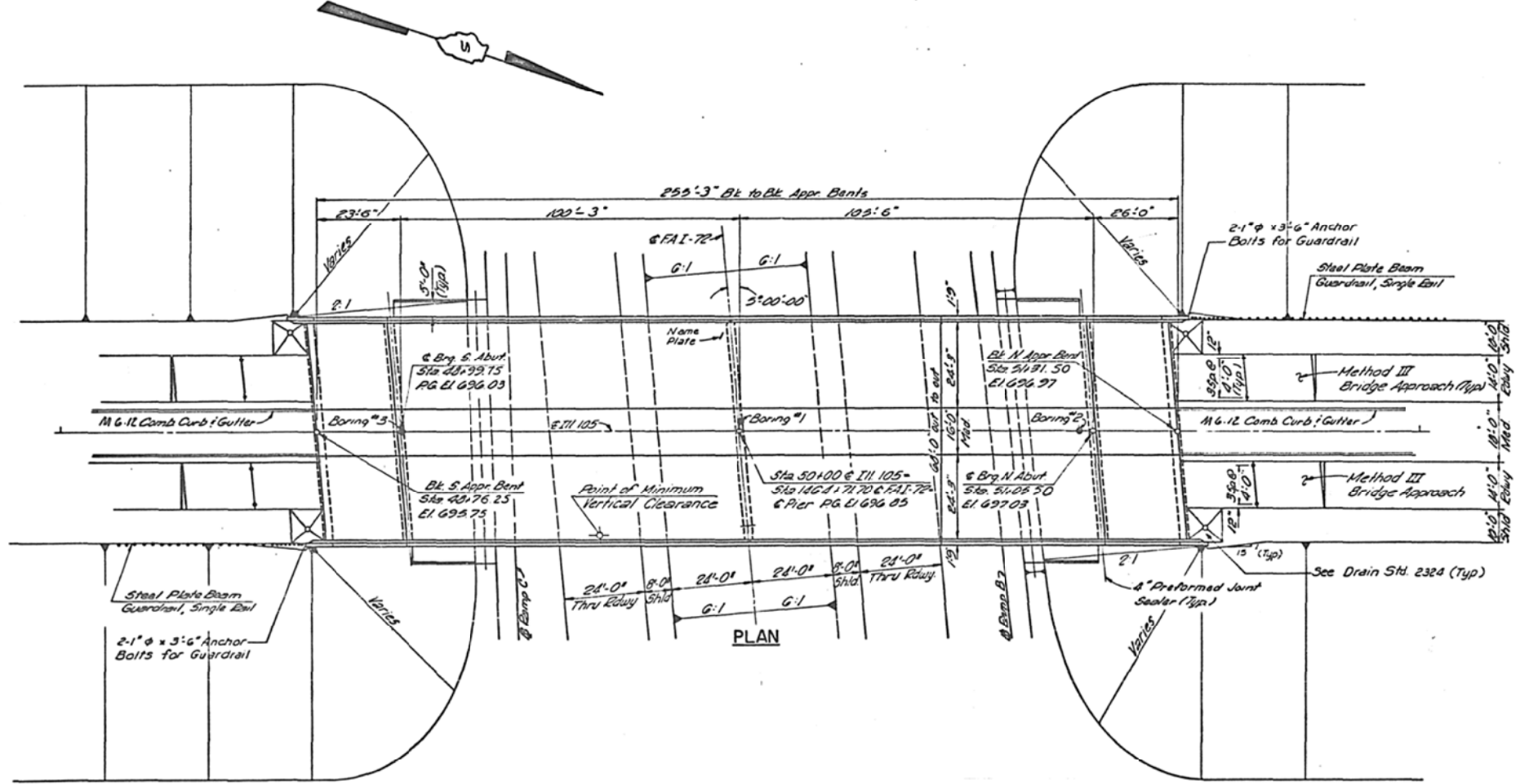
STATE OF ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / SHEETS
77-68	77-68	PIATT	33	11	17
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



TOTAL BILL OF MATERIALS				
ITEM	UNIT	SUPER	SUB	TOTAL
Aluminum Railing	Lin. Ft.	525	-	525
Structure Excavation	Cu. Yd.	250	250	250
Class X Concrete	Cu. Yd.	577.7	406.6	984.3
Furnishing & Erecting Structural Steel	Lump Sum	1	-	1
Furnishing Concrete Piles	Lin. Ft.	-	2186	2186
Driving Concrete Piles	Lin. Ft.	-	2186	2186
Test Pile Concrete	Each	-	2	2
Name Plates	Each	-	1	1
Sand Backfill	Cu. Yd.	-	675	675
Slope Wall (4 inch)	Sq. Yd.	-	441	441
Stud Shear Connectors	Each	2349	-	2349
Reinforcement Bars	Pound	154,170	43,719	203,289
Preformed Joint Sealer (4")	Lin. Ft.	136	-	136
Furnishing Crossed Piles (20' to 38')	Lin. Ft.	-	352	352
Driving Timber Piles	Lin. Ft.	-	352	352

Note: Protective Coat, Bituminous Concrete Surface Course Class I and Cool Tar Interlayer Protective Coat details are shown for information only.

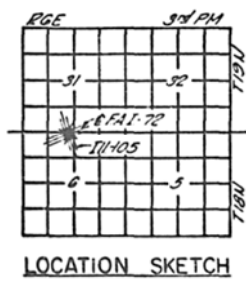


DESIGN STRESSES

- E = 1400 psi Curb, Parapet, Substructure & Approaches
- E = 1800 psi Superstructure, Main Spans
- 16 = 75 psi Footing
- f_c = 20,000 psi Reinforcing
- f_s = 20,000 psi Structural (A-36)
- n = 10
- Δ Deflection = 1/800 (Composite)

BENCHMARK
Division of Highways Monument - Top of 5th Bronze Cap set in concrete at P.T. of existing curve in I-72. Sta 1463+65, Elev 671.6.

LOADING: H-20-44
Allow 25# / S.F. for future Wearing Surface
Allowable Footing Soil Pressure = 77.5 F



DESIGNED	G.M.
CHECKED	
DRAWN	C.S.
CHECKED	ST/L.P.M. 8-72

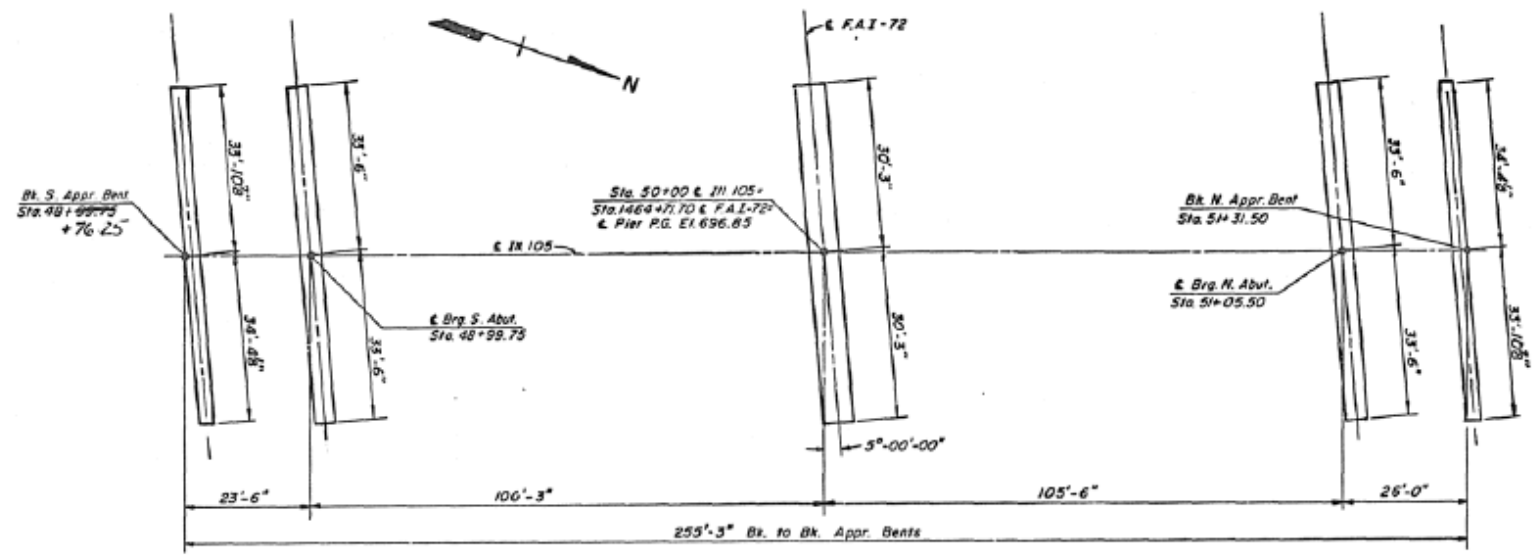
APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Paul J. Hock
REGISTERED STRUCTURAL ENGINEER OF ILLINOIS

GENERAL PLAN & ELEVATION
PROJ. 1-72-2(53)63
FAI.72 SEC. 74-68-HB-3
PIATT COUNTY
STA. 1464+71.70(FAI.72)

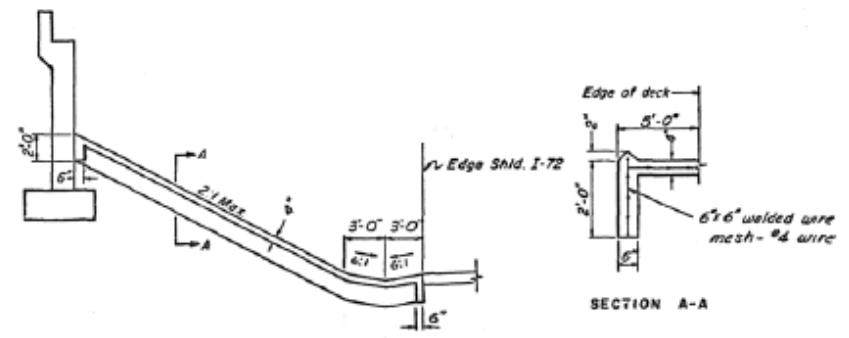
AS-BUILT PLANS FOR INFORMATION ONLY

STATE OF ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-72	74-68	PIATT	33	12
SHEETS 17				



FOOTING LAYOUT



SLOPE WALL DETAIL

STATION 1464+72
BUILT 197 BY
STATE OF ILLINOIS
F.A.I. RT. 72 SEC. 74-68-HB-3
F.A. PROJ. 1-72-2(55)
LOADING HS 20

BRIDGE NAME PLATE
SEE STD. DWG 2113

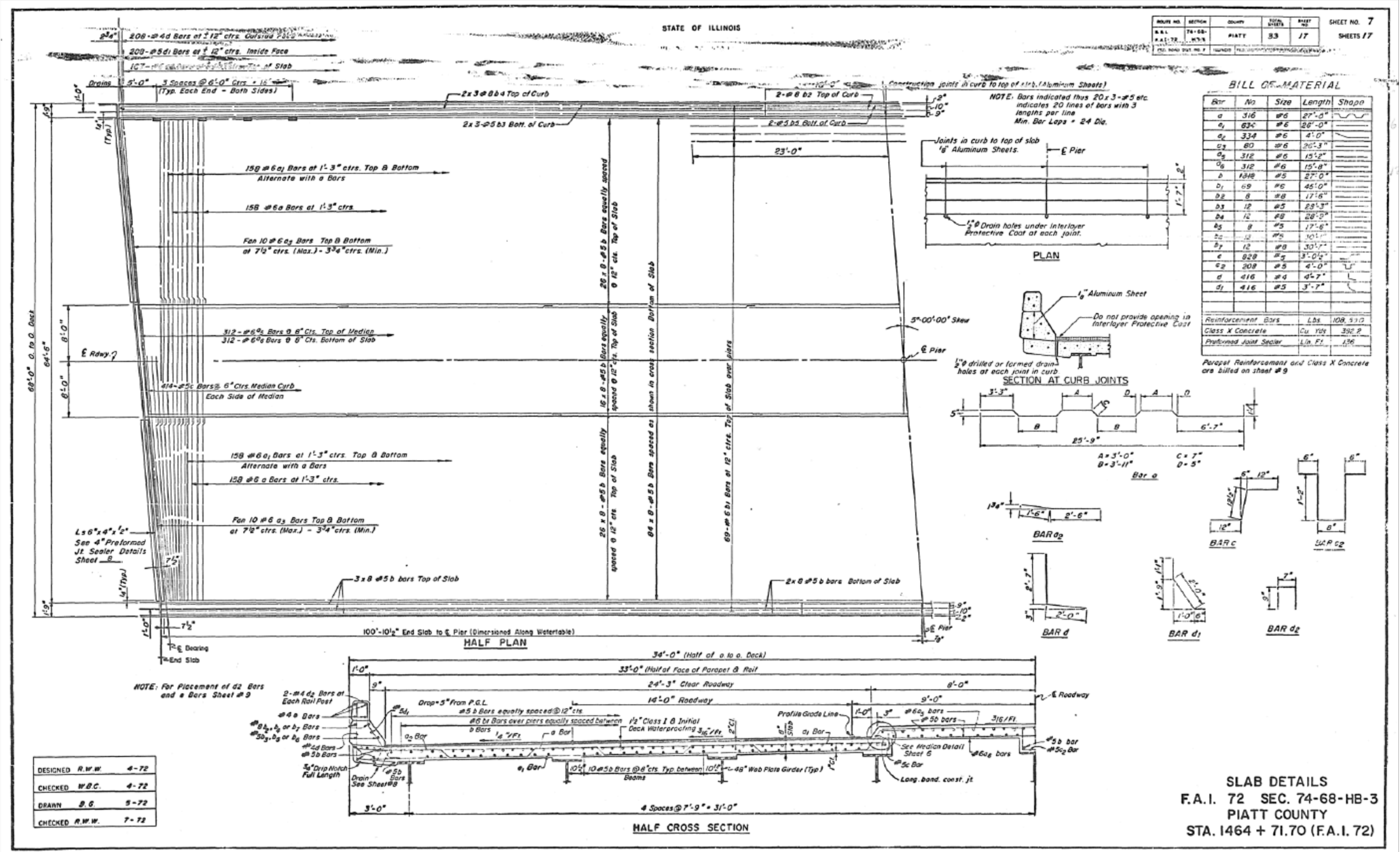
GENERAL NOTES

- (1)- All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 - (2)- Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ " ϕ ; open holes $\frac{1}{8}$ " ϕ , unless otherwise noted.
 - (3)- Calculated weight of structural steel = 40,200 Lbs.
 - (4)- The basic lead silico chromate paint system shall be used for shop & field painting of structural steel.
 - (5)- Field welding of construction accessories will not be permitted to the bottom flange of beams or girders 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.
 - (6)- Anchor bolts shall be set before bolting diaphragms over supports.
 - (7)- Slope wall shall be reinforced with welded wire fabric, 6" x 6" mesh, weighing 58# per 100 Sq. Ft.
 - (8)- The contractor shall drive 2 concrete test piles in a permanent location - one at south abutment & one at north abutment, & one timber test pile in a permanent location at interior pier as directed by the Engineer before ordering the remainder of piles.
 - * (9)- Protective coat shall not be applied to surfaces to which coal tar interlayer protective is applied.
 - (10)- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
 - (11)- The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of class X concrete, except the aggregates shall conform to the requirements of handrail concrete.
 - (12)- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\pm \frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
- The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, and splice plates of the steel girders or wide flange beams.*
- * For information only.

DESIGNED	RWW
CHECKED	wbc
DRAWN	GAS
CHECKED	RWW 14 AUG 12

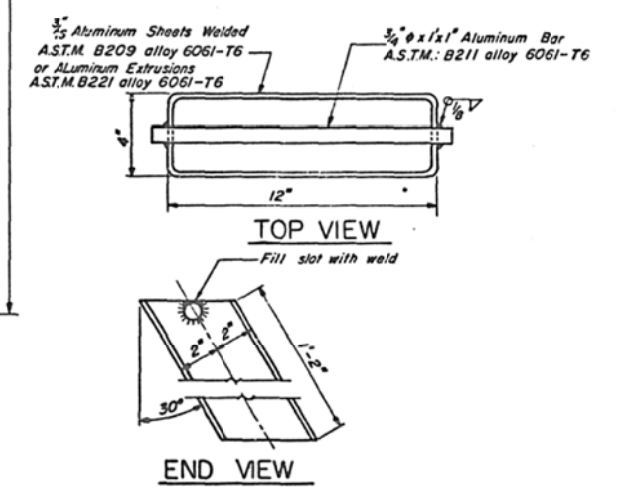
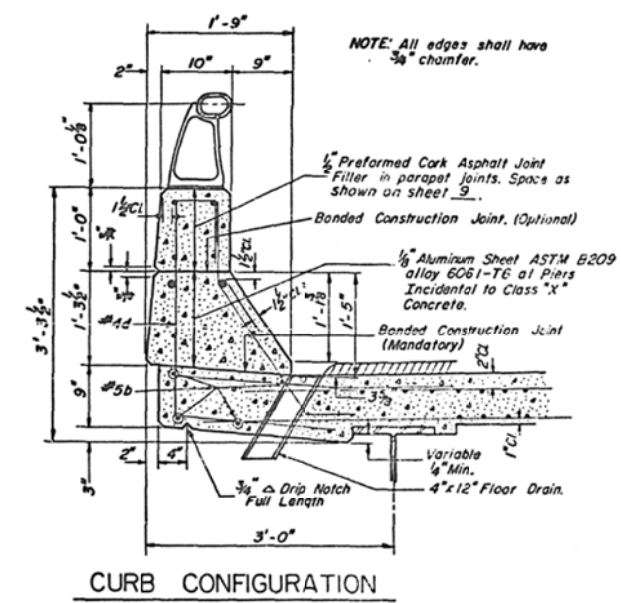
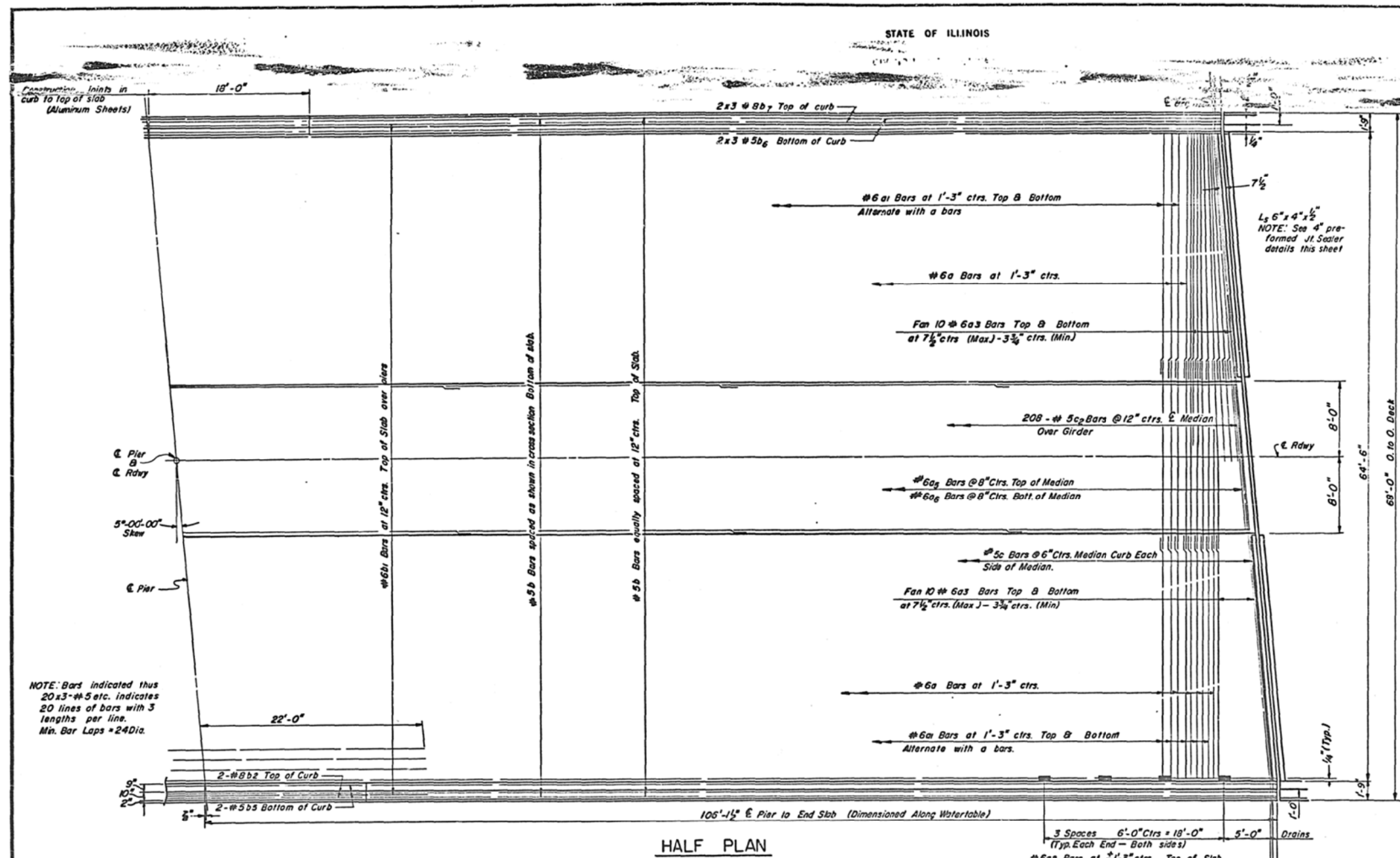
SUBSTRUCTURE LAYOUT
F.A.I-72 SEC. 74-68-HB-3
PIATT COUNTY
STA. 1464+71.70 (F.A.I.-72)

AS-BUILT PLANS FOR INFORMATION ONLY



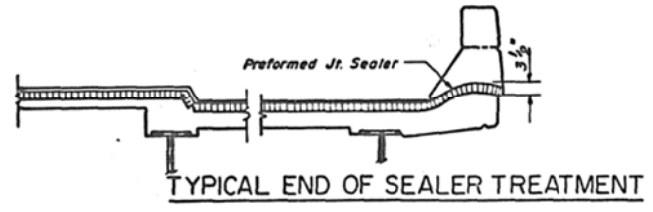
AS-BUILT PLANS FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8
F.A.I.-72	74-68	PIATT	33	18	SHEETS 17
FED. ROAD DIST. 32.71					

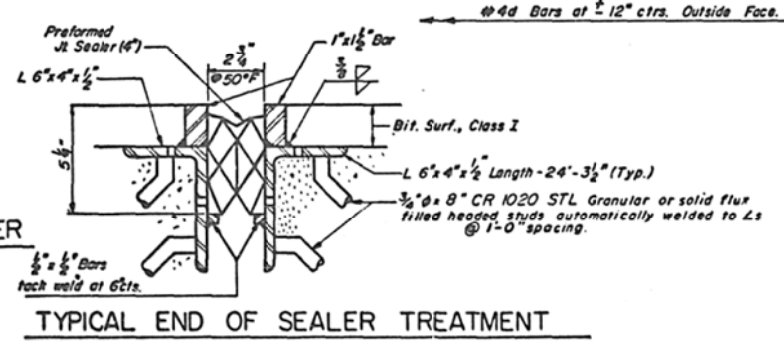


DECK DRAIN DETAILS
Cost Incidental to Class "X" Concrete

SLAB DETAILS
F.A.I.-72 SEC. 74-68-HB-3
PIATT COUNTY
STA. 1464+71.70(F.A.I.-72)



TYPICAL END OF SEALER TREATMENT



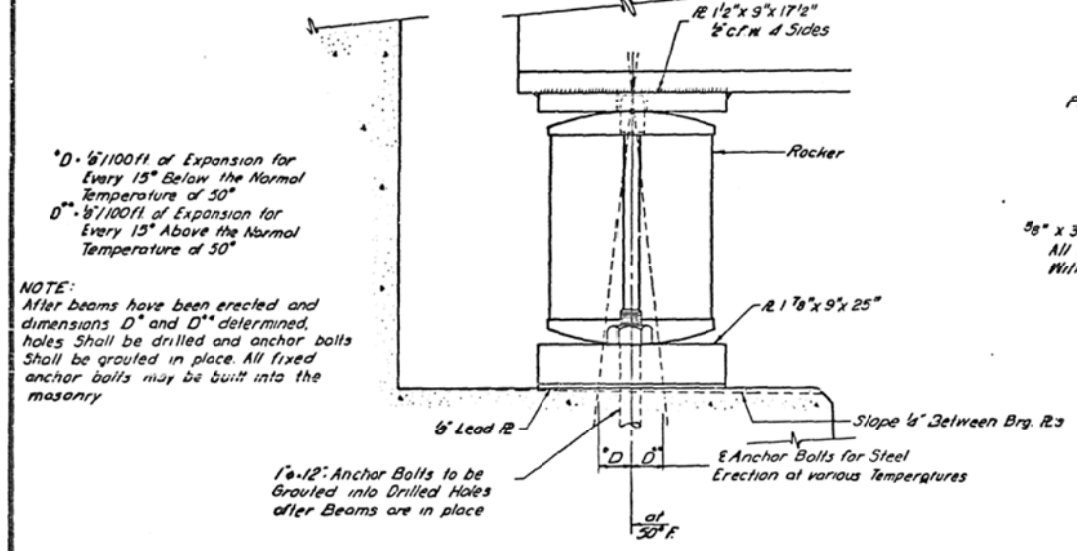
TYPICAL END OF SEALER TREATMENT

DESIGNED	RWH	4-72
CHECKED	wbc	4-72
DRAWN	GAS	7-72
CHECKED	wbc	8-7-72

AS-BUILT PLANS FOR INFORMATION ONLY

STATE OF ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12
F.A.I.-72	74-68	PIATT	33	22	SHEETS 17
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

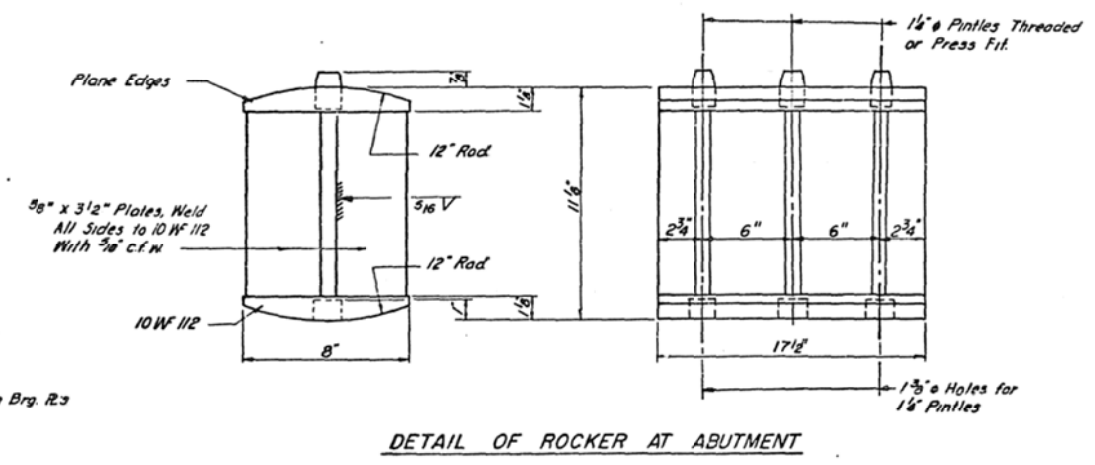


$D = \frac{6}{1100} \Delta T$ of Expansion for Every 15° Below the Normal Temperature of 50°
 $D' = \frac{5}{1100} \Delta T$ of Expansion for Every 15° Above the Normal Temperature of 50°

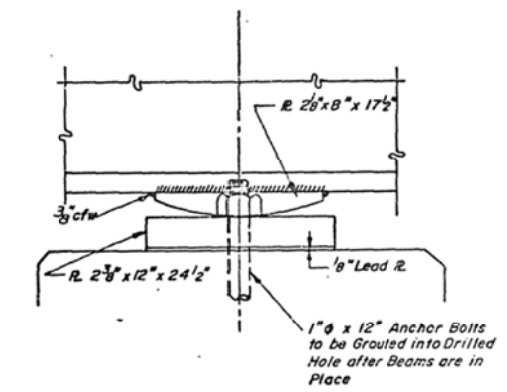
NOTE:
 After beams have been erected and dimensions D and D' determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

1" x 12" Anchor Bolts to be Grouted into Drilled Holes after Beams are in place

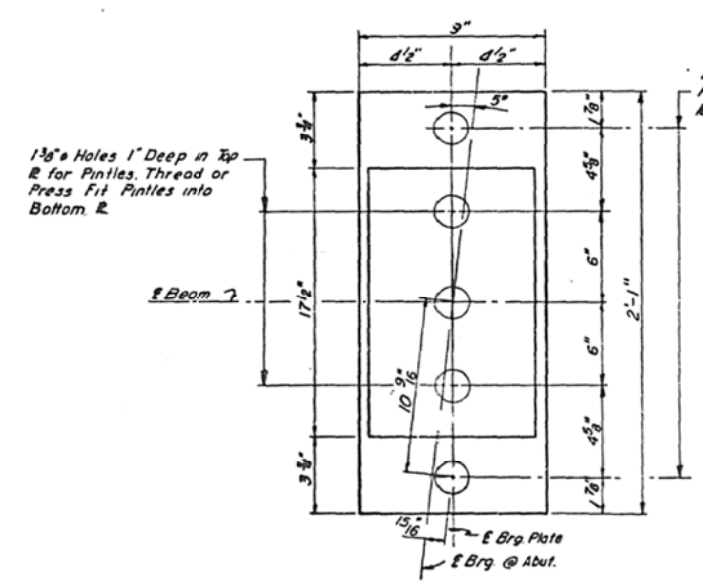
SECTION AT ABUTMENT



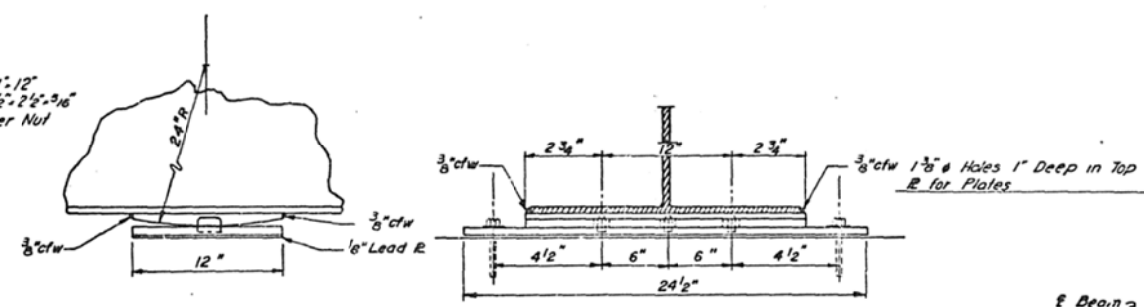
DETAIL OF ROCKER AT ABUTMENT



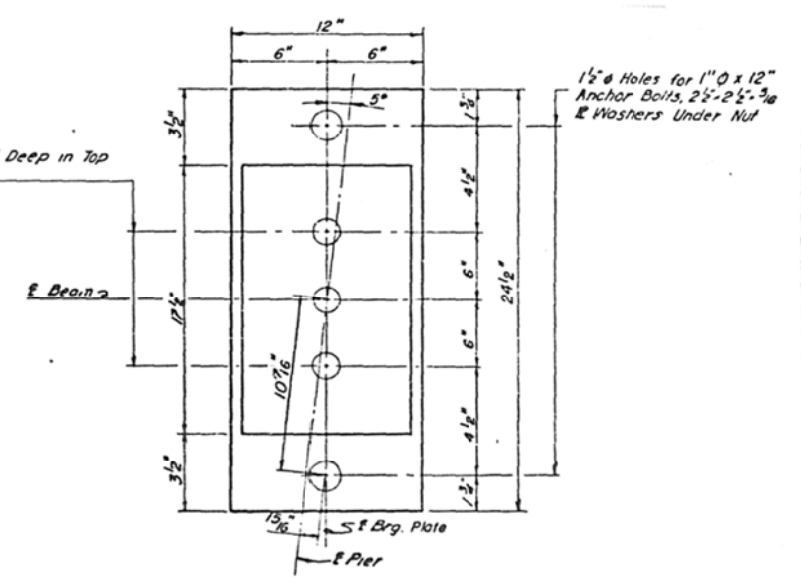
SECTION AT PIER



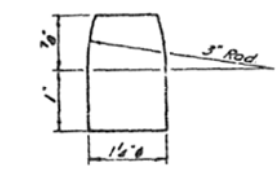
PLAN AT ABUTMENT



DETAIL OF BOLSTER AT PIER



PLAN AT PIER



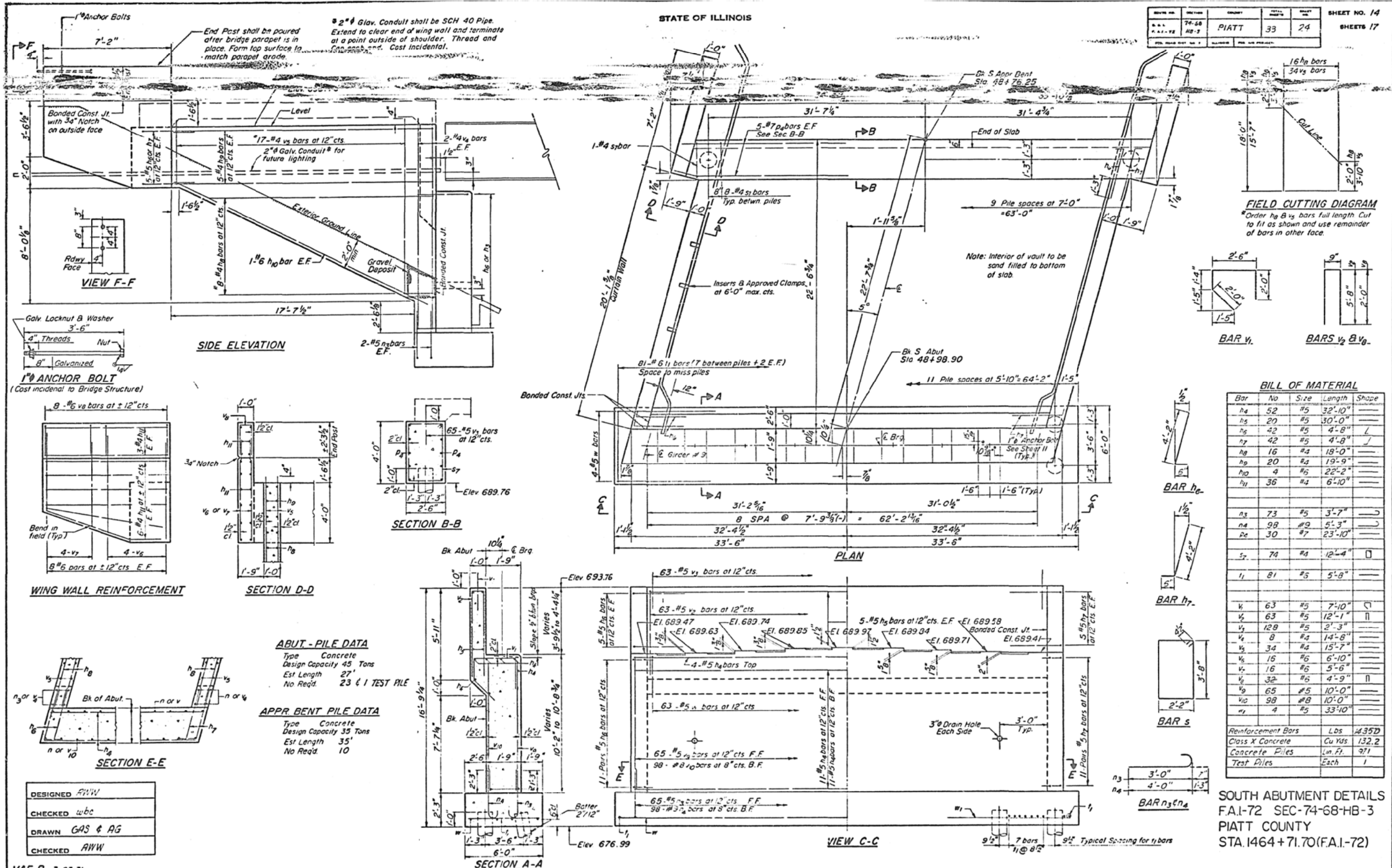
DETAIL OF PINTLE

BEARING DETAILS
 F.A.I.-72 SEC. 74-68-HB-3
 PIATT COUNTY
 STA. 1464+71.70(F.A.I.-72)

DESIGNED <i>RWW 5-72</i>
CHECKED <i>WBC 7-72</i>
DRAWN <i>MMP/GAS 8-72</i>
CHECKED <i>WBC 8-13-72</i>

AS-BUILT PLANS FOR INFORMATION ONLY

SECTION	PIATT	33	24	SHEET NO. 14
DATE	74-68	HB-3		SHEETS 17



1" ANCHOR BOLT
(Cast incidental to Bridge Structure)

ABUT - PILE DATA
Type Concrete
Design Capacity 45 Tons
Est Length 27'
No Reqd. 23 & 1 TEST PILE

APPR BENT PILE DATA
Type Concrete
Design Capacity 35 Tons
Est Length 35'
No Reqd. 10

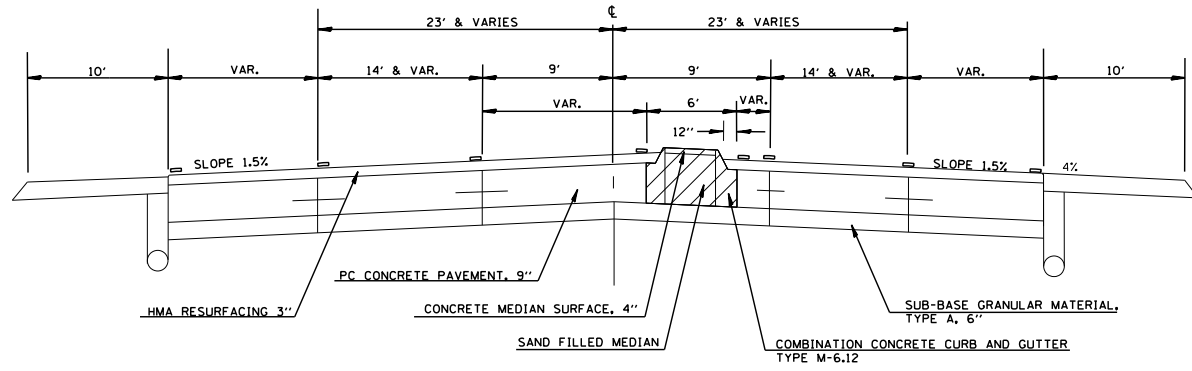
DESIGNED	AWW
CHECKED	wbc
DRAWN	GAS & AG
CHECKED	AWW

REMOVAL /REPLACEMENT OF MEDIANS FOR S.N. 074-0071 STAGE CONSTRUCTION

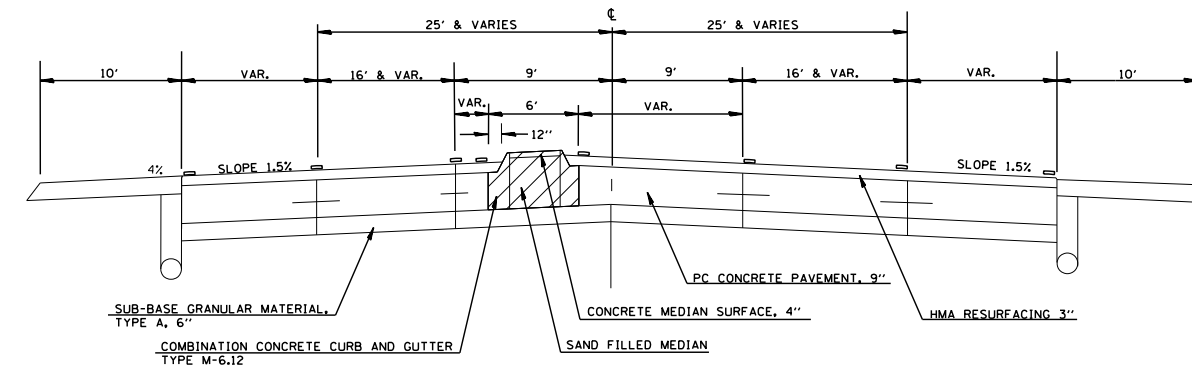


PAY ITEM	UNIT	INTERSECTION
SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ. Y.D.	135.0
MEDIAN REMOVAL	SQ. FT.	1288.0
CONCRETE MEDIAN, TYPE SM (DOWELLED)	SQ. FT.	811.0
PCC BASE COURSE WIDENING 8"	SQ. YD.	135.0
PROTECTIVE COAT	SQ. YD.	91.0
TIE BARS 3/4"	EACH	203.0

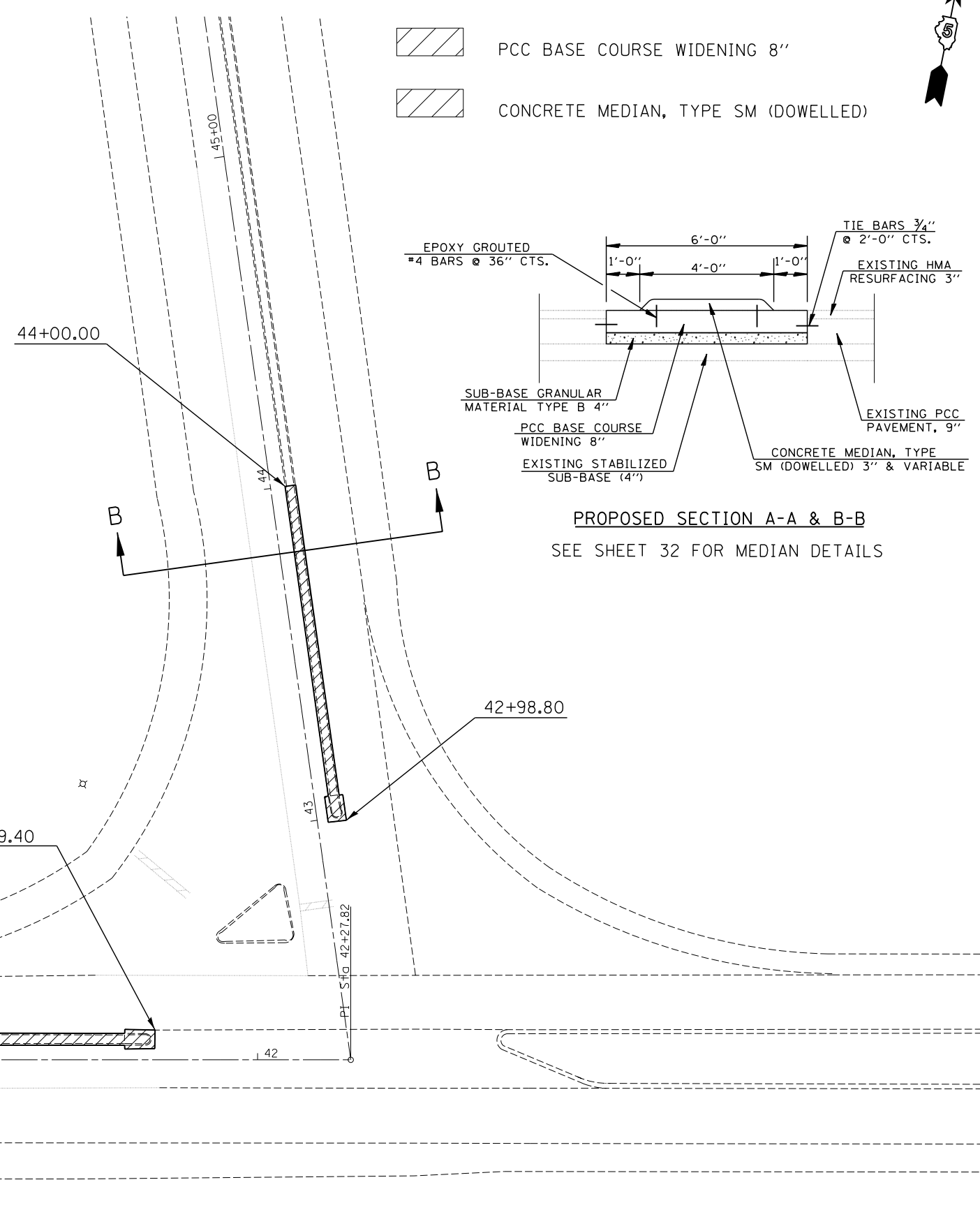
- MEDIAN REMOVAL
- PCC BASE COURSE WIDENING 8"
- CONCRETE MEDIAN, TYPE SM (DOWELLED)



EXISTING SECTION B-B

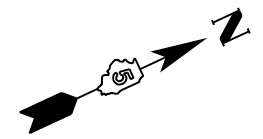


EXISTING SECTION A-A



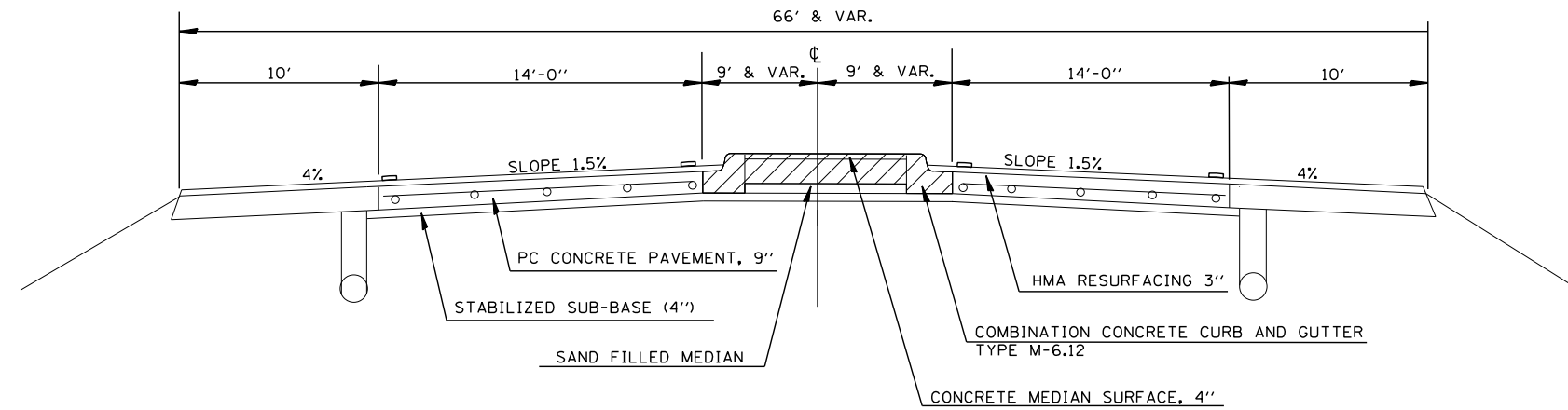
PROPOSED SECTION A-A & B-B
SEE SHEET 32 FOR MEDIAN DETAILS

REMOVAL /REPLACEMENT OF MEDIANS FOR S.N. 074-0071 STAGE CONSTRUCTION

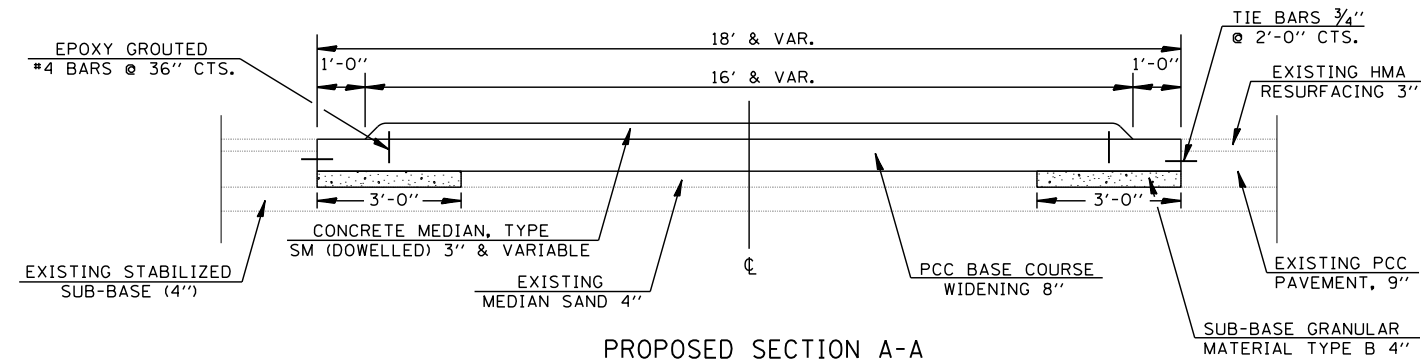


PAY ITEM	UNIT	INTERSECTION
SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ. Y.D.	126.0
MEDIAN REMOVAL	SQ. FT.	3226.0
CONCRETE MEDIAN, TYPE SM (DOWELLED)	SQ. FT.	2808.0
PCC BASE COURSE WIDENING 8"	SQ. YD.	355.0
PROTECTIVE COAT	SQ. YD.	312.0
TIE BARS 3/4"	EACH	189.0

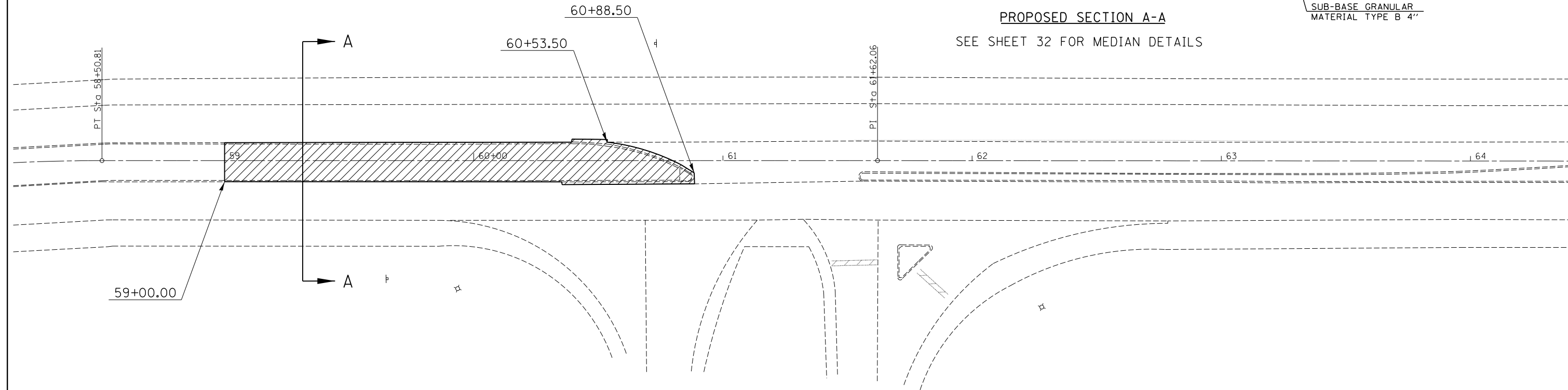
- MEDIAN REMOVAL
- PCC BASE COURSE WIDENING 8"
- CONCRETE MEDIAN, TYPE SM (DOWELLED)



EXISTING SECTION A-A

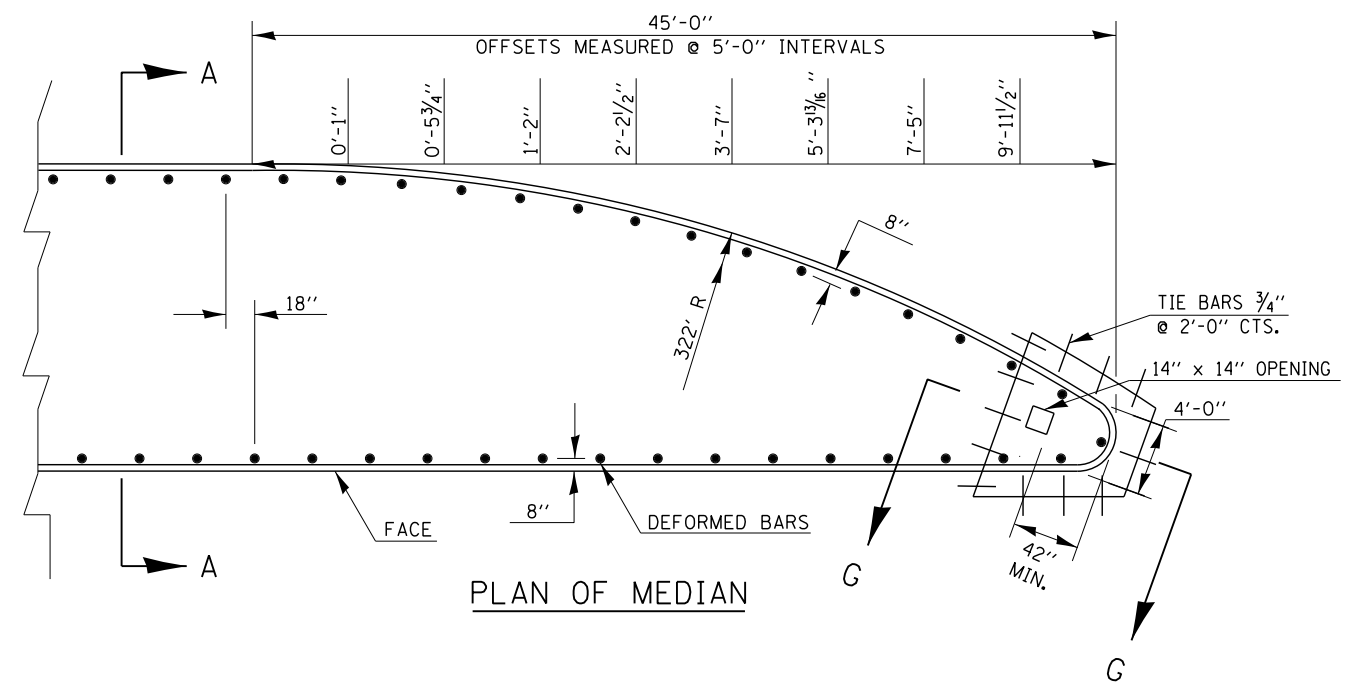
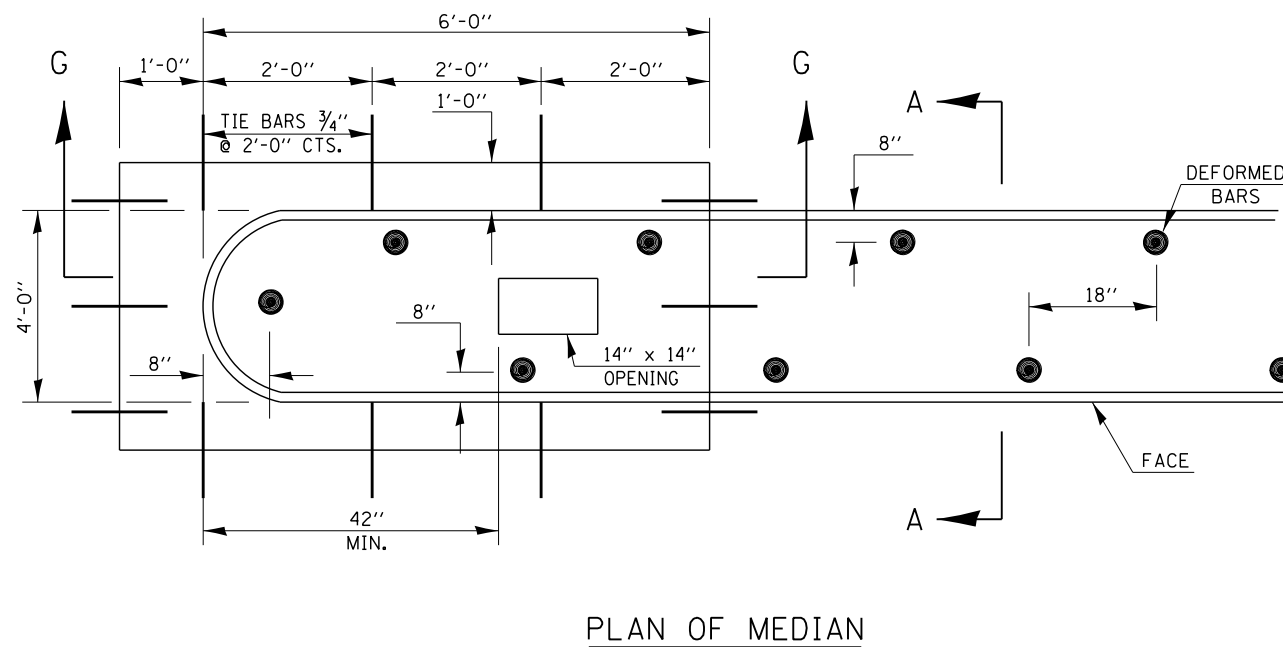
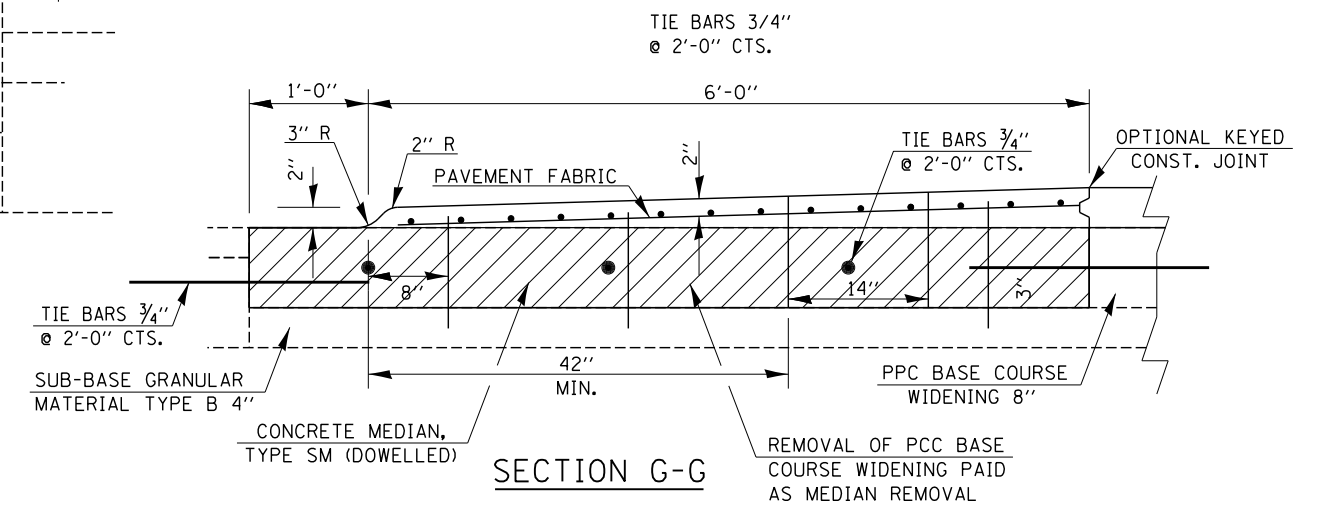
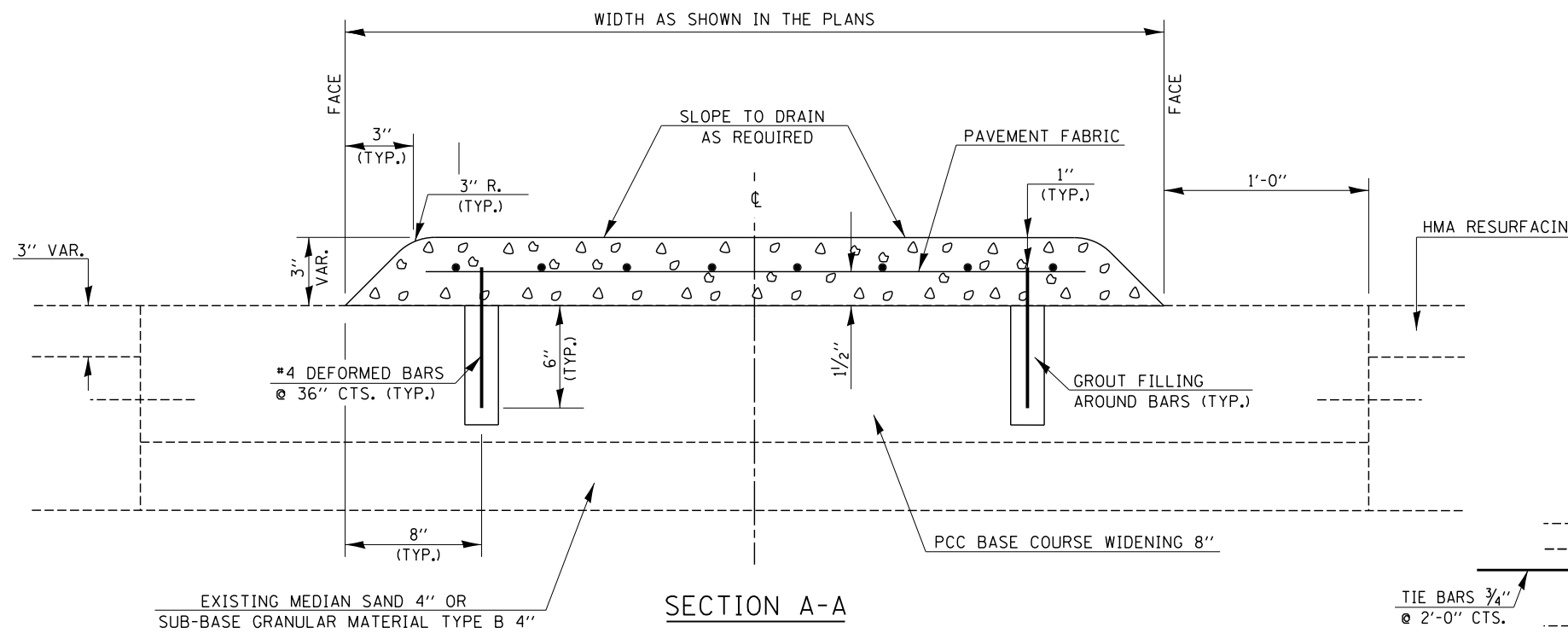


PROPOSED SECTION A-A
SEE SHEET 32 FOR MEDIAN DETAILS



GENERAL NOTES

1. DEFORMED BARS @ 36" CTS. OR AS DIRECTED BY THE ENGINEER. EPOXY GROUT BARS IN 6" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS.
2. CONCRETE MEDIAN, TYPE SM (DOWELLED), SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE DEFORMED BARS, TIE BARS, EPOXY GROUT, PAVEMENT FABRIC, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



FILE NAME =	USER NAME = showleres	DESIGNED - ESS	REVISED -
ct:\pw\work\p\midot\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - ESS	REVISED -
		CHECKED - EDG	REVISED -
		DATE - 10-3-2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONCRETE MEDIAN, TYPE SM (DOWELLED)

SCALE: SHEET NO. 33 OF 40 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	40
CONTRACT NO. 70A75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STAGE I

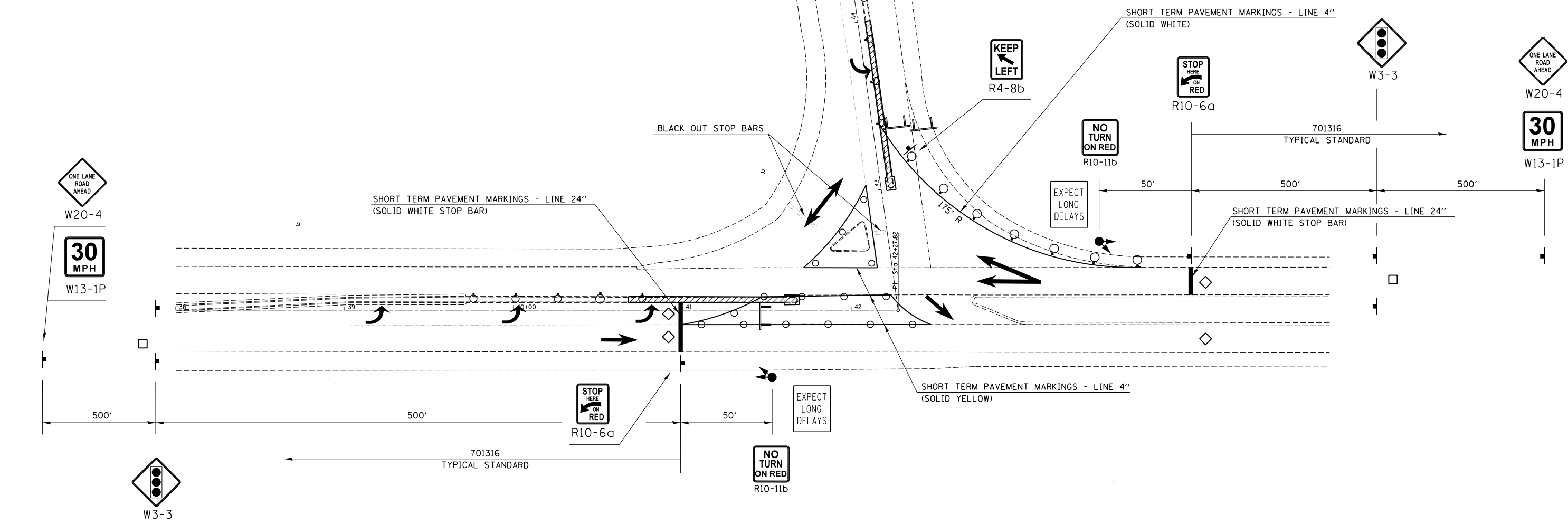
IL 105

NORTHBOUND LANE CLOSED

SN 074-0071

TRAFFIC CONTROL & PROTECTION,

STANDARD 701316 (SPECIAL)



SYMBOLS	
	MEDIAN REMOVAL
	SIGN
	LIGHTED VERTICAL BARRICADE, DOUBLE FACED @ 25' CTS.
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	TYPE III BARRICADE WITH FLASHING LIGHTS
	TEMPORARY SIGNALS

PLAN NOTES:

REFLECTORIZED SHORT-TERM 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 BLACKED OUT. COST OF BLACKING OUT EXISTING MARKINGS AND FOR PLACEMENT AND REMOVAL OF SHORT-TERM MARKINGS SHALL BE INCLUDED IN COST FOR TRAFFIC CONTROL STANDARD 701316 (SPECIAL).

SIGNS SHALL BE FURNISHED, PLACED, AND MAINTAINED BY THE CONTRACTOR. COST SHALL BE INCLUDED WITH TRAFFIC CONTROL STANDARD 701316 (SPECIAL).

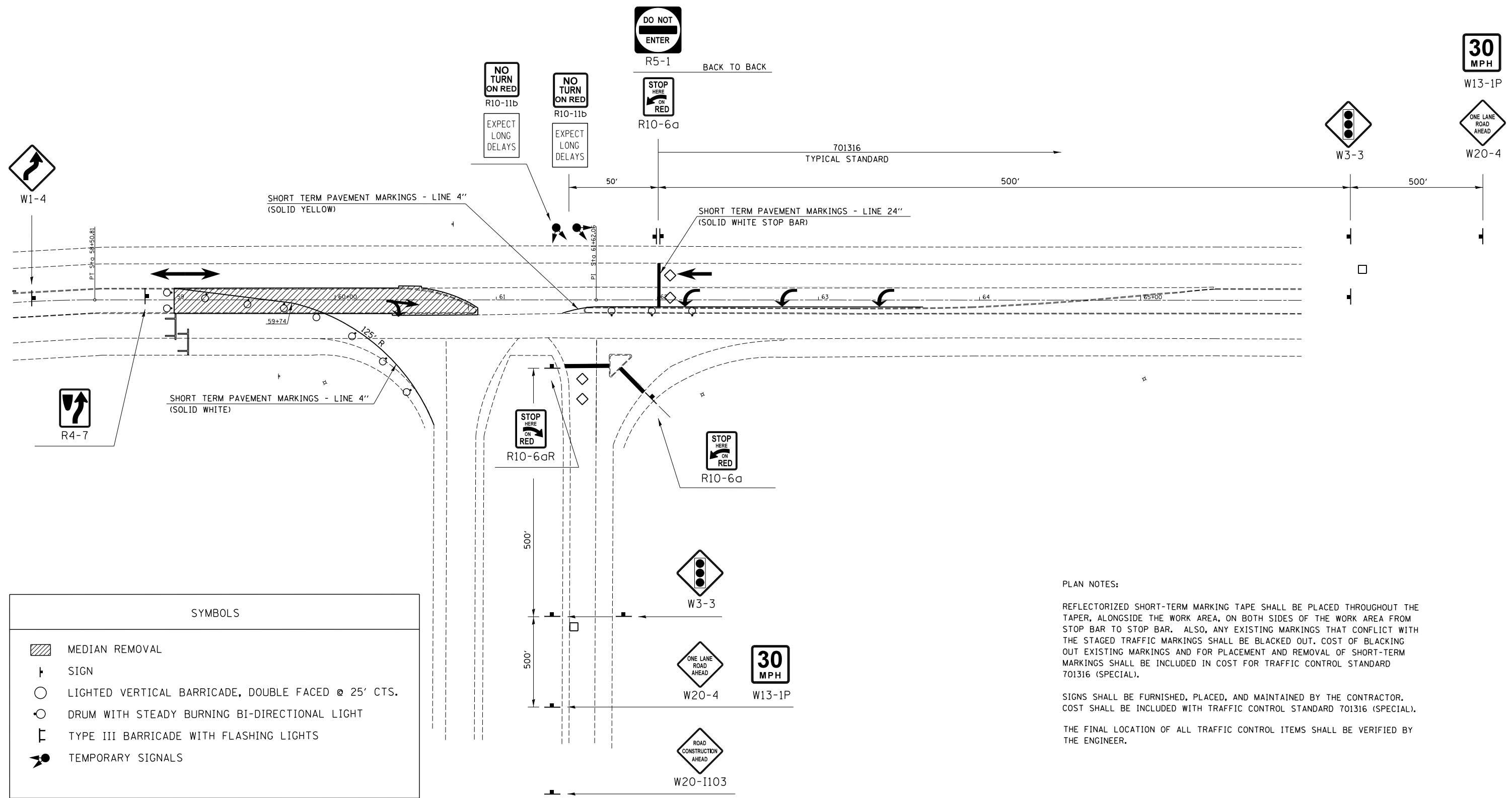
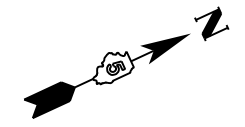
THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER.

FILE NAME =	USER NAME = showleres	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL & PROTECTION, STANDARD 701316 (SPECIAL)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\p\dot\showleres\d0412844\0570475_sht-Repair Plans.dgn	PLOT SCALE = 60.0000' / in.	DRAWN - ESS	REVISED -			741	(7BR)	PIATT	72	41	
\$MODELNAME\$	PLOT DATE = 12/2/2014	CHECKED -	REVISED -			CONTRACT NO. 70A75					
		DATE - 9-18-2013	REVISED -			SCALE:	SHEET NO. 34 OF 40 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

STAGE I

IL 105 NORTHBOUND LANE CLOSED SN 074-0071

TRAFFIC CONTROL & PROTECTION, STANDARD 701316 (SPECIAL)



SYMBOLS	
	MEDIAN REMOVAL
	SIGN
	LIGHTED VERTICAL BARRICADE, DOUBLE FACED @ 25' CTS.
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	TYPE III BARRICADE WITH FLASHING LIGHTS
	TEMPORARY SIGNALS

PLAN NOTES:

REFLECTORIZED SHORT-TERM 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 BLACKED OUT. COST OF BLACKING OUT EXISTING MARKINGS AND FOR PLACEMENT AND REMOVAL OF SHORT-TERM MARKINGS SHALL BE INCLUDED IN COST FOR TRAFFIC CONTROL STANDARD 701316 (SPECIAL).

SIGNS SHALL BE FURNISHED, PLACED, AND MAINTAINED BY THE CONTRACTOR. COST SHALL BE INCLUDED WITH TRAFFIC CONTROL STANDARD 701316 (SPECIAL).

THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER.

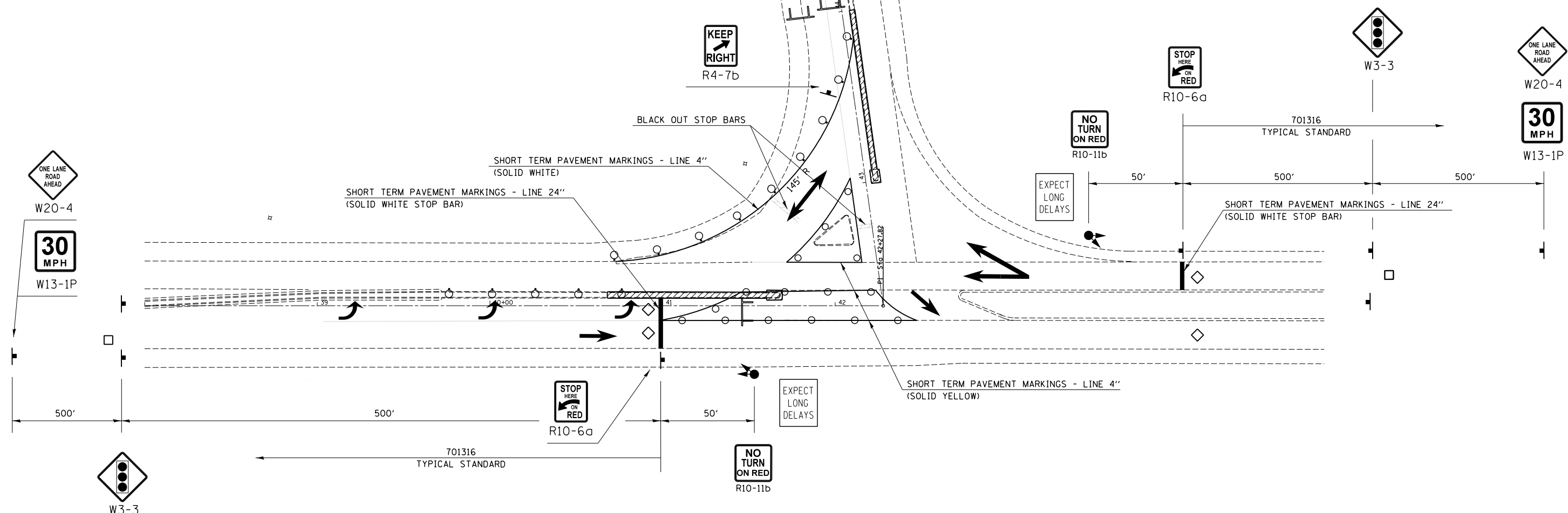
STAGE II

IL 105

SOUTHBOUND LANE CLOSED

SN 074-0071

TRAFFIC CONTROL & PROTECTION, STANDARD 701316 (SPECIAL)



SYMBOLS	
	MEDIAN REMOVAL
	SIGN
	LIGHTED VERTICAL BARRICADE, DOUBLE FACED @ 25' CTS.
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	TYPE III BARRICADE WITH FLASHING LIGHTS
	TEMPORARY SIGNALS

PLAN NOTES:

REFLECTORIZED SHORT-TERM 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 BLACKED OUT. COST OF BLACKING OUT EXISTING MARKINGS AND FOR PLACEMENT AND REMOVAL OF SHORT-TERM MARKINGS SHALL BE INCLUDED IN COST FOR TRAFFIC CONTROL STANDARD 701316 (SPECIAL).

SIGNS SHALL BE FURNISHED, PLACED, AND MAINTAINED BY THE CONTRACTOR. COST SHALL BE INCLUDED WITH TRAFFIC CONTROL STANDARD 701316 (SPECIAL).

THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER.

STAGE II

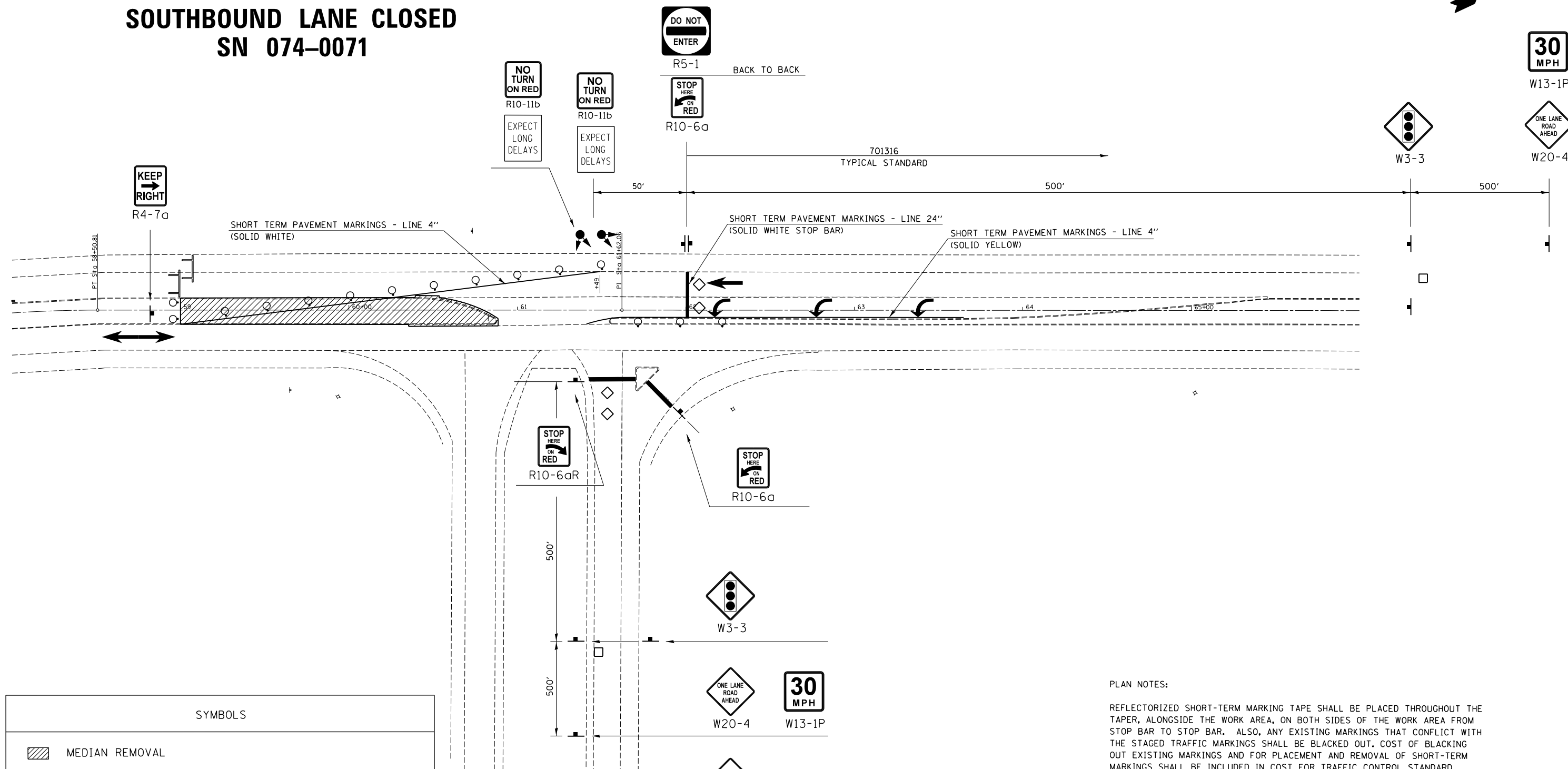
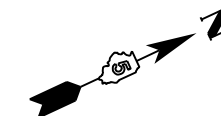
IL 105

SOUTHBOUND LANE CLOSED

SN 074-0071

TRAFFIC CONTROL & PROTECTION,

STANDARD 701316 (SPECIAL)



SYMBOLS	
	MEDIAN REMOVAL
	SIGN
	LIGHTED VERTICAL BARRICADE, DOUBLE FACED @ 25' CTS.
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	TYPE III BARRICADE WITH FLASHING LIGHTS
	TEMPORARY SIGNALS

PLAN NOTES:

REFLECTORIZED SHORT-TERM 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 BLACKED OUT. COST OF BLACKING OUT EXISTING MARKINGS AND FOR PLACEMENT AND REMOVAL OF SHORT-TERM MARKINGS SHALL BE INCLUDED IN COST FOR TRAFFIC CONTROL STANDARD 701316 (SPECIAL).

SIGNS SHALL BE FURNISHED, PLACED, AND MAINTAINED BY THE CONTRACTOR. COST SHALL BE INCLUDED WITH TRAFFIC CONTROL STANDARD 701316 (SPECIAL).

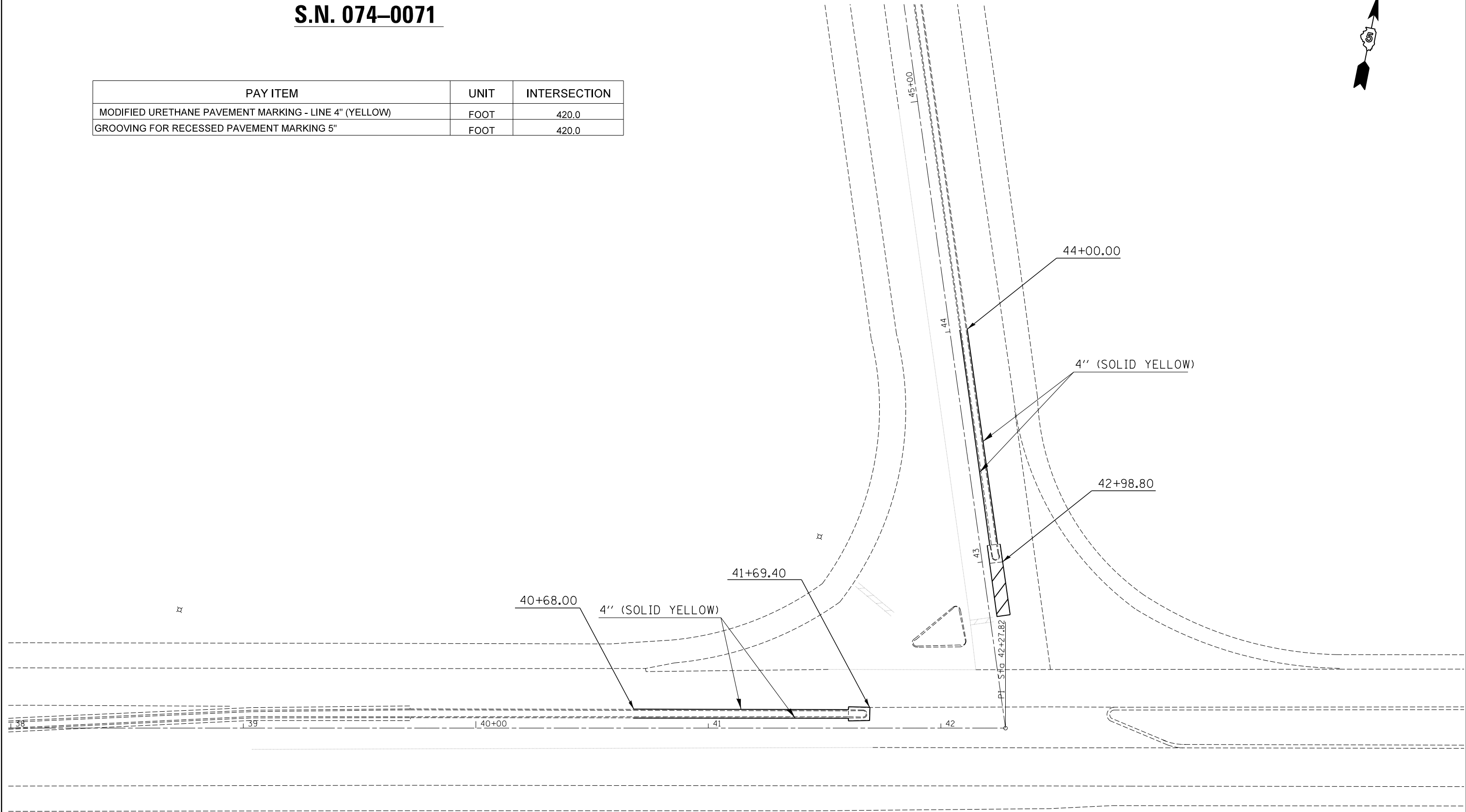
THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER.

PAVEMENT MARKING

S.N. 074-0071



PAY ITEM	UNIT	INTERSECTION
MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW)	FOOT	420.0
GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	420.0



FILE NAME =	USER NAME = showleres	DESIGNED - ESS	REVISED -
ci:\pw\work\p\dot\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - ESS	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 12/2/2014	DATE - 10-18-2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKINGS
STR. 074-0071**

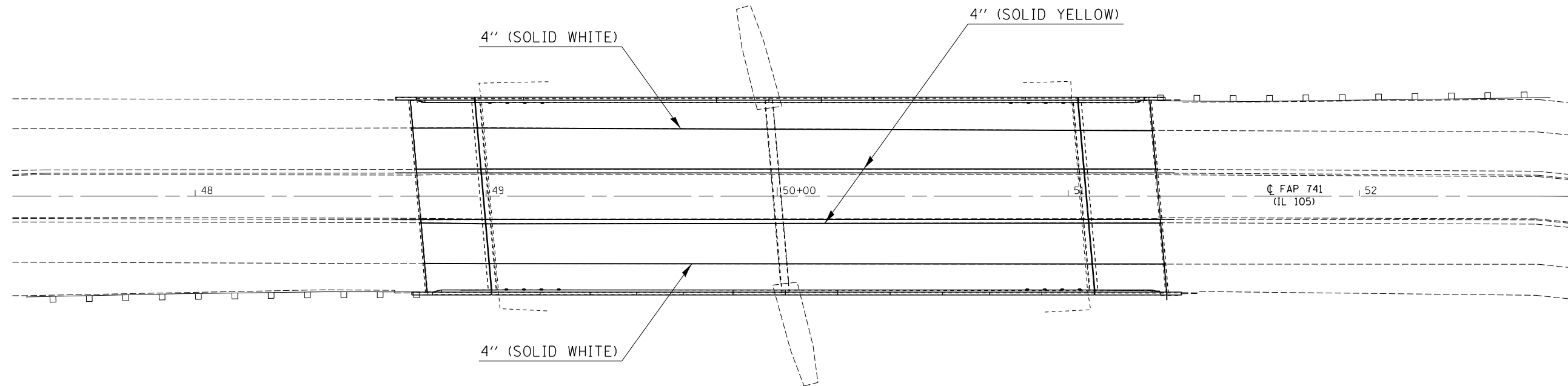
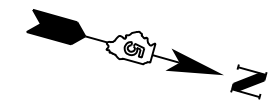
SCALE: SHEET NO. 39 OF 40 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	46
CONTRACT NO. 70A75			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING

S.N. 074-0071

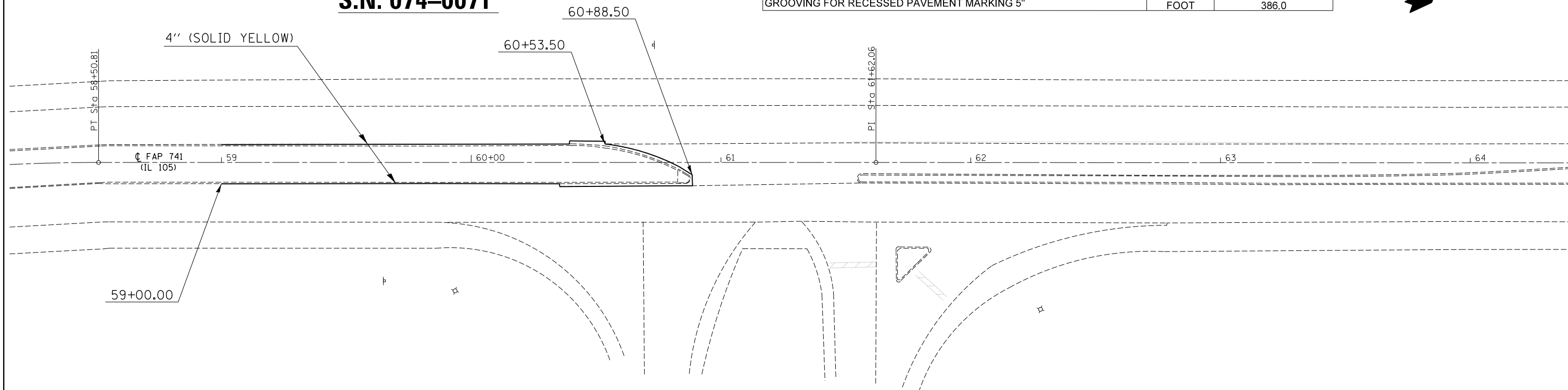
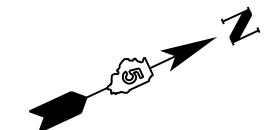
PAY ITEM	UNIT	INTERSECTION
MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW)	FOOT	510.0
MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE)	FOOT	510.0
GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1020.0



PAVEMENT MARKING

S.N. 074-0071

PAY ITEM	UNIT	INTERSECTION
MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW)	FOOT	386.0
GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	386.0



FILE NAME =	USER NAME = showleres	DESIGNED -	REVISED -
ci:\pw\work\p\dot\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - ESS	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 12/2/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
STR. 074-0071

SCALE: SHEET NO. 40 OF 40 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	47
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				

GENERAL PLAN & ELEVATION

S.N. 074-0072

S.N. 074-0072 was built in 1977 as FAS 540, Section 7BR at Station 999+52.38. The structure carries IL 105 over Camp Creek. The original joints were replaced with polymer nosing and silicone joint sealer by District 5 Bridge Crew personnel in the Fall of 2006.

The three span structure measures 207'-9" back to back of abutment, with the spans measuring 54'-6", 98'-9", and 54'-6". The structure has an out to out width of 46'-0", a face to face of parapet width of 44'-0", and a clear width of 42'-6". The superstructure consists of a 7 1/2" concrete slab with an 1 1/2" HMA wearing surface and waterproofing membrane supported by six 54" PPC I-beams. The open abutments and piers are supported by concrete piles.

Method of Construction: Stage Construction

PROPOSED WORK

1. Removal of existing Waterproofing Membrane System and H.M.A. Wearing Surface.
2. Removal of existing Polymer Concrete Nosing and Silicone Joints at both abutments.
3. Removal of Hatch Blocks at both abutments.
4. Partial removal of Deck Ends, Parapets, and Wingwalls at both abutments.
5. Perform Partial Depth Patching.
6. Place Reinforcement Bars, Locking Edge Rail, and Studs.
7. Construct proposed Hatch Blocks, Deck Ends, and Wingwalls.
8. Insert Rubber Strip Seal into Locking Edge Rails.
9. Construct Parapet Ends.
10. Place proposed Waterproofing Membrane System and proposed H.M.A. Wearing Surface.
11. Perform Structural Concrete Repairs.

BILL OF MATERIAL

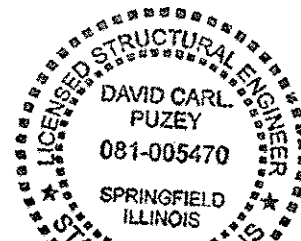
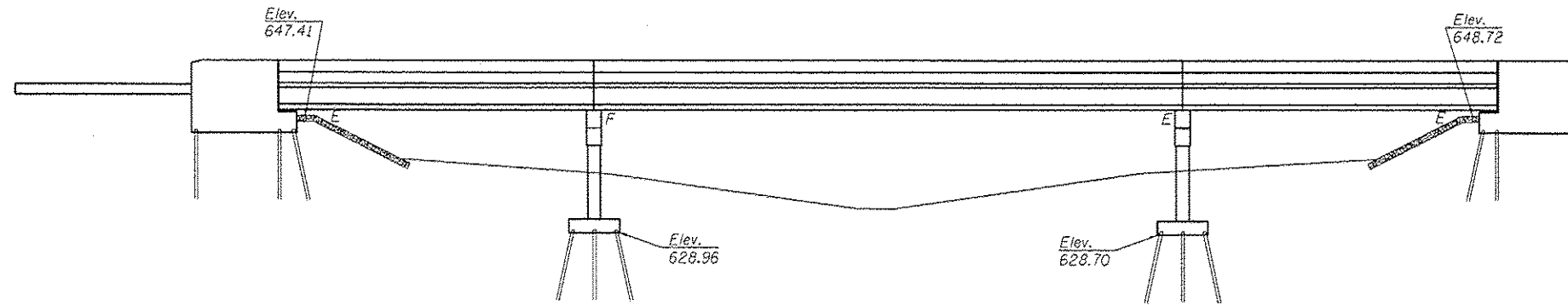
Item	Unit	Total
H.M.A. Surface Removal (Deck)	Sq Yd	966.0
Deck Slab Repair (Partial Depth)	Sq Yd	145.0
Concrete Removal	Cu Yd	8.2
Reinforcement Bars, Epoxy Coated	Pound	830.0
Bar Splicers	Each	12.0
Concrete Superstructure	Cu Yd	8.6
Waterproofing Membrane System	Sq Yd	977.0
H.M.A. Surface Course, Mix 0, N50	Ton	82.0
Preformed Joint Strip Seal	Foot	96.0
Polymer Modified Portland Cement Mortar	Sq Ft	1.8
Pumpable Concrete Mix	Cu Ft	3.0
Structural Repair of Concrete, Depth < 5"	Sq Ft	8.0

GENERAL NOTES

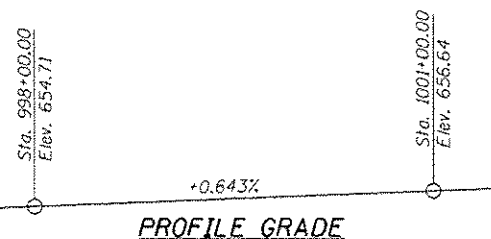
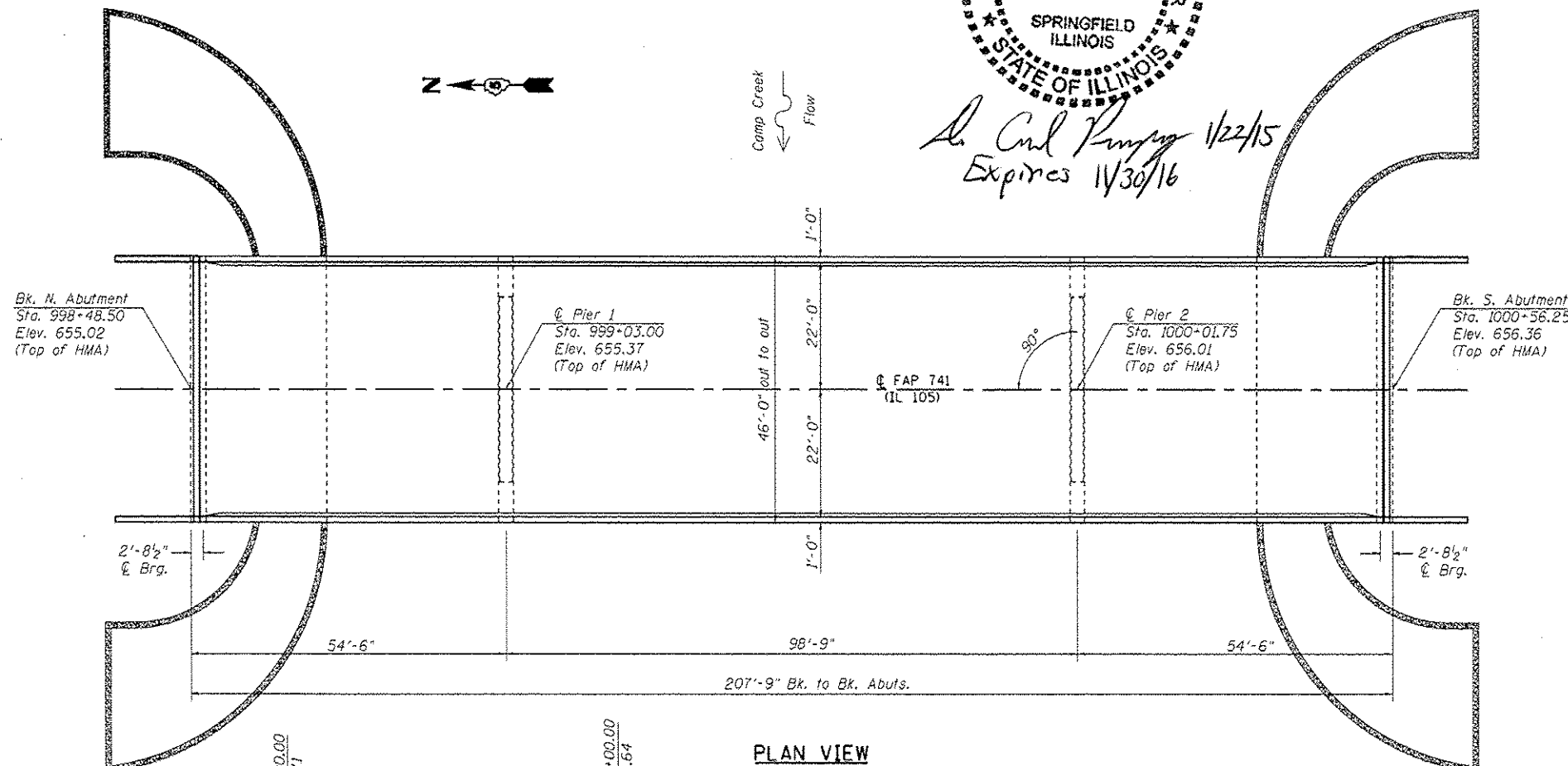
Plan dimensions and details relative to the existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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 and H.M.A. Surface Removal (Deck).

S.N. 074-0072 have been determined, through testing, not to involve asbestos in a Bituminous Bridge Deck wearing surface or Waterproofing Membrane. As Certified with BBS Form 2536, August 22, 2001.

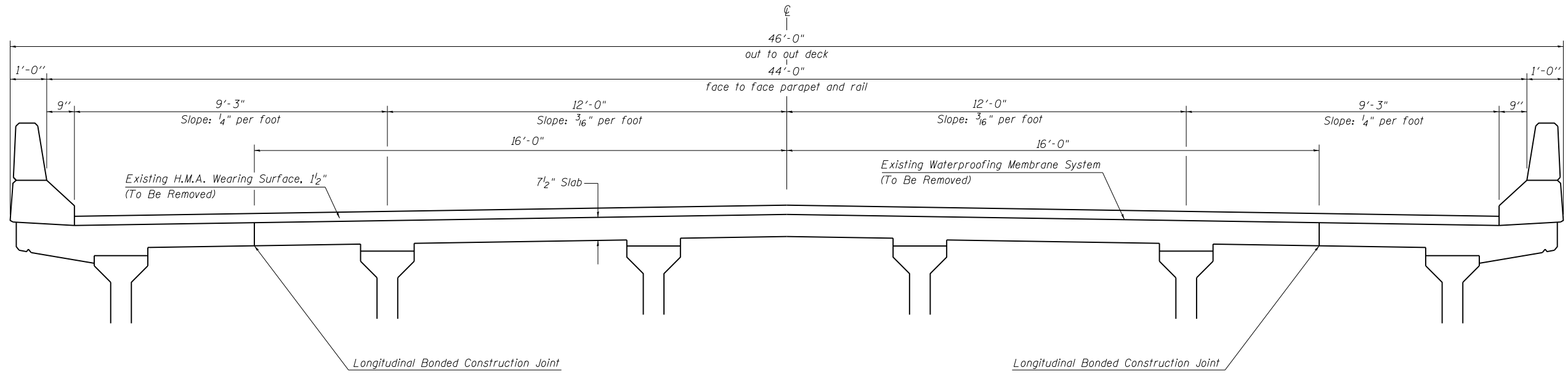


David Carl Puzey 1/22/15
Expires 1/30/16

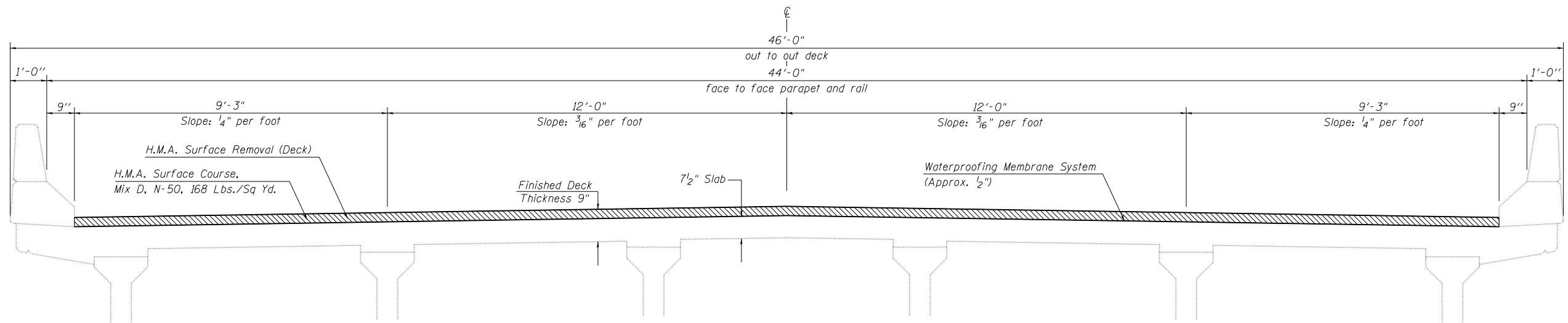


FILE NAME =	USER NAME = shawleres	DESIGNED - RTC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RTC	REVISED -		S.N. 074-0072				741	(7BR1)	PIATT	72	48
		CHECKED - TJB	REVISED -		SCALE: SHEET 1 OF 21 SHEETS STA. TO STA.				CONTRACT NO. 70A75				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

EXISTING CROSS SECTION S.N. 074-0072



PROPOSED CROSS SECTION S.N. 074-0072



FILE NAME =	USER NAME = showleres	DESIGNED - RTC	REVISED -
ci:\pw\work\p\dot\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - RTC	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISED -
	PLOT DATE = 12/2/2014	DATE -	REVISED -

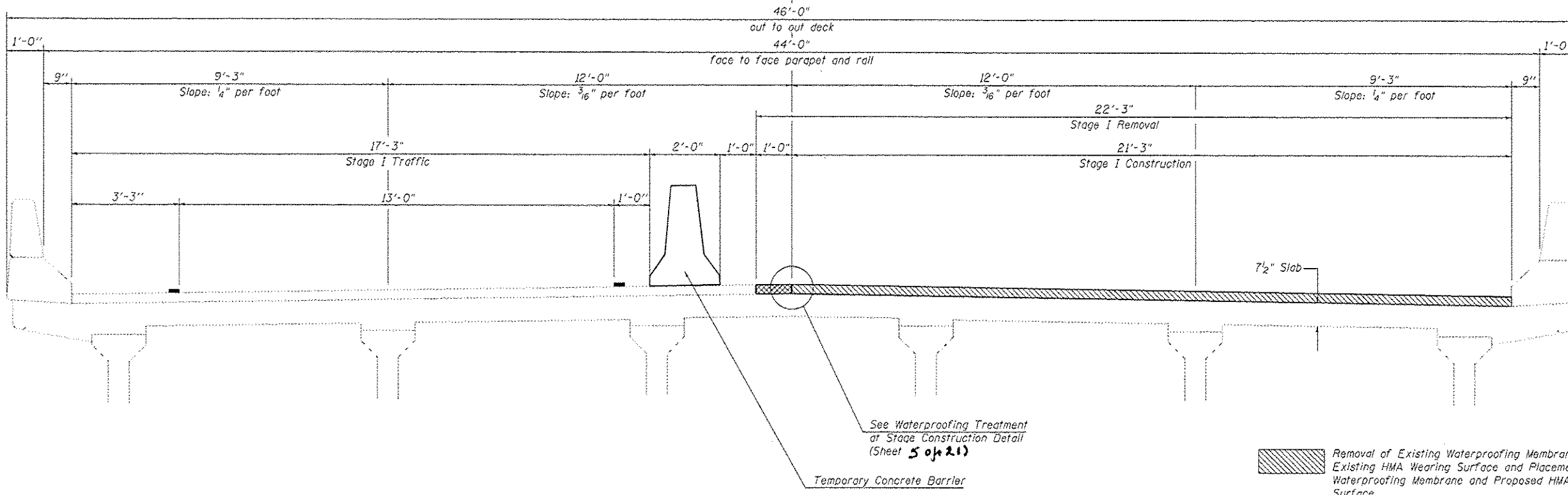
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS
S.N. 074-0072**

SCALE: SHEET 2 OF 21 SHEETS STA. TO STA.

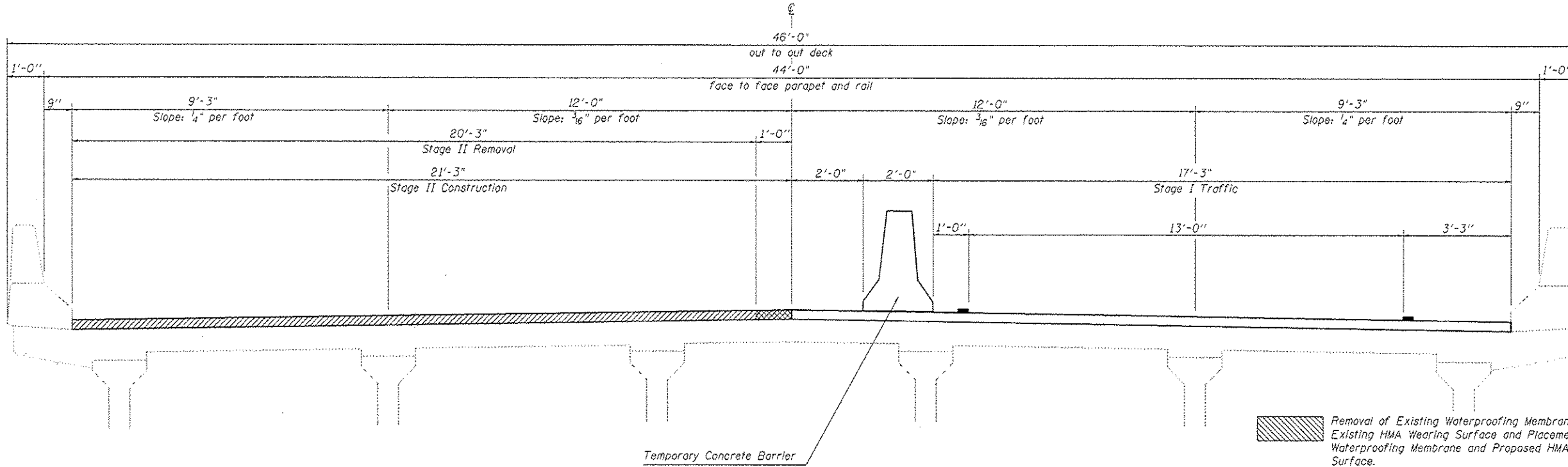
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	49
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				

STAGE I
(LOOKING SOUTH)



- Removal of Existing Waterproofing Membrane and Existing HMA Wearing Surface and Placement of Proposed Waterproofing Membrane and Proposed HMA Wearing Surface.
- Removal of Existing Waterproofing Membrane and Existing HMA Wearing Surface.

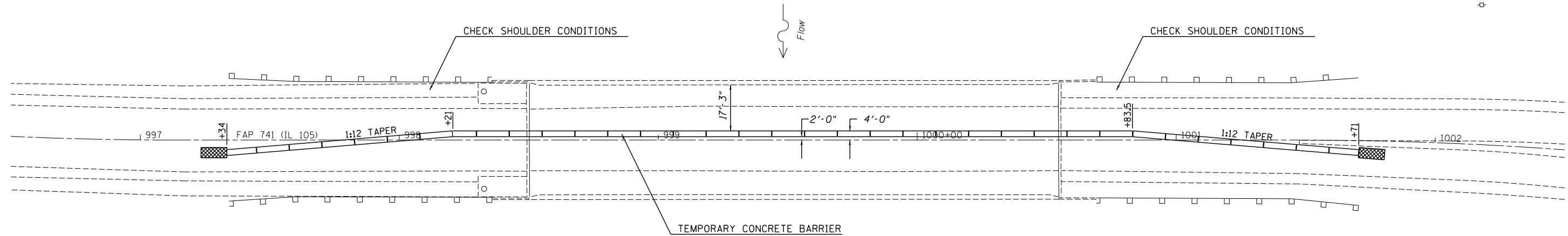
STAGE II
(LOOKING SOUTH)



- Removal of Existing Waterproofing Membrane and Existing HMA Wearing Surface and Placement of Proposed Waterproofing Membrane and Proposed HMA Wearing Surface.
- Proposed Waterproofing Membrane and HMA Wearing Surface

FILE NAME *	USER NAME * shawleres	DESIGNED - RTC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pwwork\pawidoc\shawleres\0812044\052075.sht-Repairs Plans.dgn		DRAWN - RTC	REVISED -		S.N. 074-0072			741	(7BR)	PIATT	72	50	
		CHECKED - TJB	REVISED -		SCALE:	SHEET 3	OF 21 SHEETS	STA.					CONTRACT NO. 70A75
		DATE -	REVISED -					TO STA.					ILLINOIS FED. AID PROJECT

TEMPORARY CONCRETE BARRIER LAYOUT – STAGE I SN 074-0072



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.

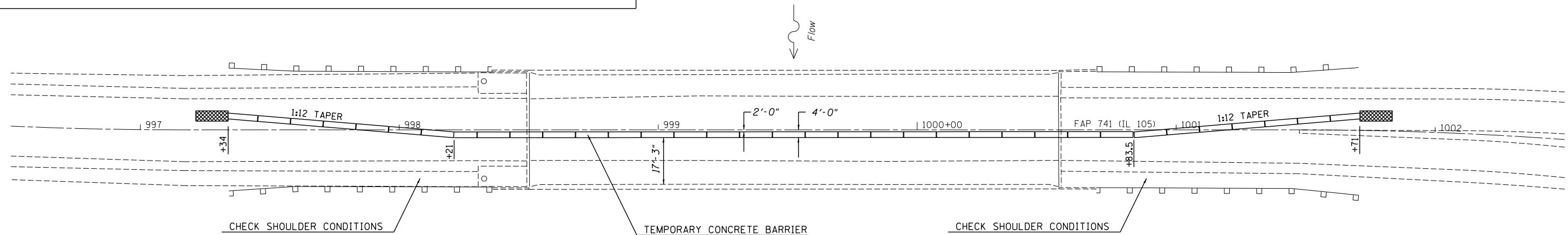
REFLECTORS AND VERTICAL PANELS FOR BARRIER WALL, BRIDGE RAIL AND GUARDRAIL SHALL BE INCLUDED IN THE COST FOR THE APPLICABLE TRAFFIC CONTROL PAY ITEMS.

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

REFLECTORIZED SHORT-TERM 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 BLACKED OUT. COST OF BLACKING OUT EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF SHORT-TERM MARKINGS SHALL BE INCLUDED IN COST FOR APPLICABLE TRAFFIC CONTROL PAY ITEMS.

SYMBOLS	
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR

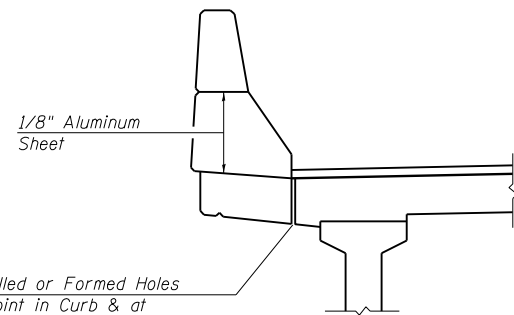
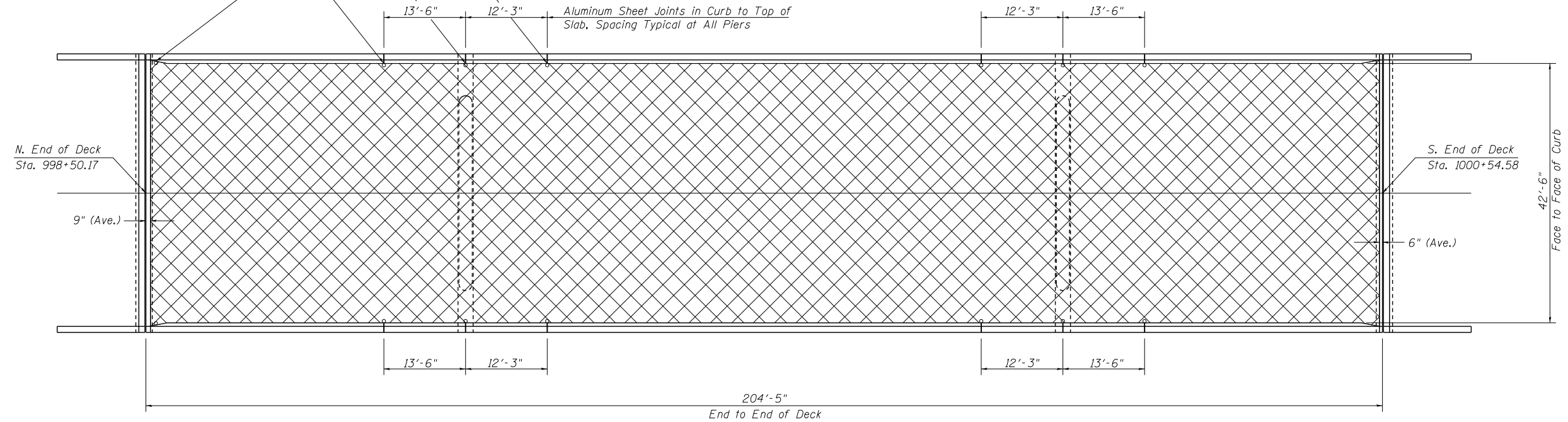
TEMPORARY CONCRETE BARRIER LAYOUT – STAGE II SN 074-0072



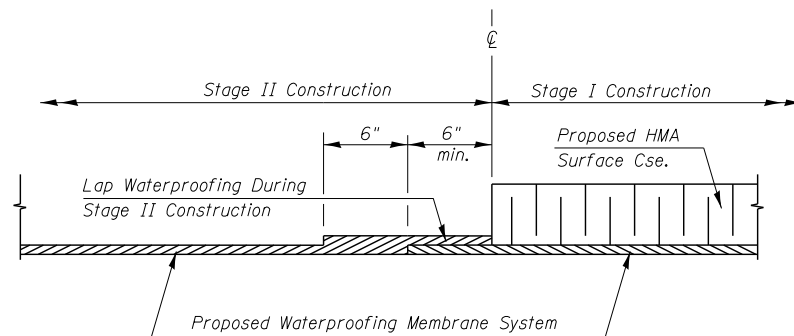
FILE NAME =	USER NAME = showleres	DESIGNED - RTC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER LAYOUT S.N. 074-0072	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - RTC	REVISED -			741	(7BR)	PIATT	72	51	
		CHECKED - TJB	REVISED -			CONTRACT NO. 70A75					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:		SHEET 4 OF 21 SHEETS		STA.		TO STA.	



Existing 1/2" ϕ Drain Holes under Waterproofing Membrane through concrete slab to be Plugged (3 Per Each End Pier) - See Detail (2 at North Abutment)



DETAIL OF DRAIN HOLES AT CURB JOINTS
(TO BE PLUGGED) - SEE NOTES, THIS SHEET



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION

LEGEND

H.M.A. SURFACE REMOVAL (DECK) & PROPOSED H.M.A. WEARING SURFACE AND WATERPROOFING MEMBRANE SYSTEM

BILL OF MATERIAL

Item	Unit	Total
H.M.A. Surface Removal (Deck)	Sq Yd	966.0
Waterproofing Membrane System	Sq Yd	977.0
H.M.A. Surface Course, Mix D, N50	Ton	82.0
Deck Slab Repair (Partial)	Sq Yd	145.0

NOTES

Area of Deck Slab Repair has been estimated at 15% of the total deck area. The actual quantity and locations shall be determined by the Engineer after the existing H.M.A. Wearing Surface and Waterproofing Membrane are removed. The Engineer shall show the actual locations of the Deck Repairs on this sheet.

All (qty. 14) 1/2" ϕ drain holes at curb joints & the north abutment shall be filled with a two component non-staining gray sealing compound with polysulfide liquid polymers - gun grade with primer. Cost to be included with Deck Slab Repair.

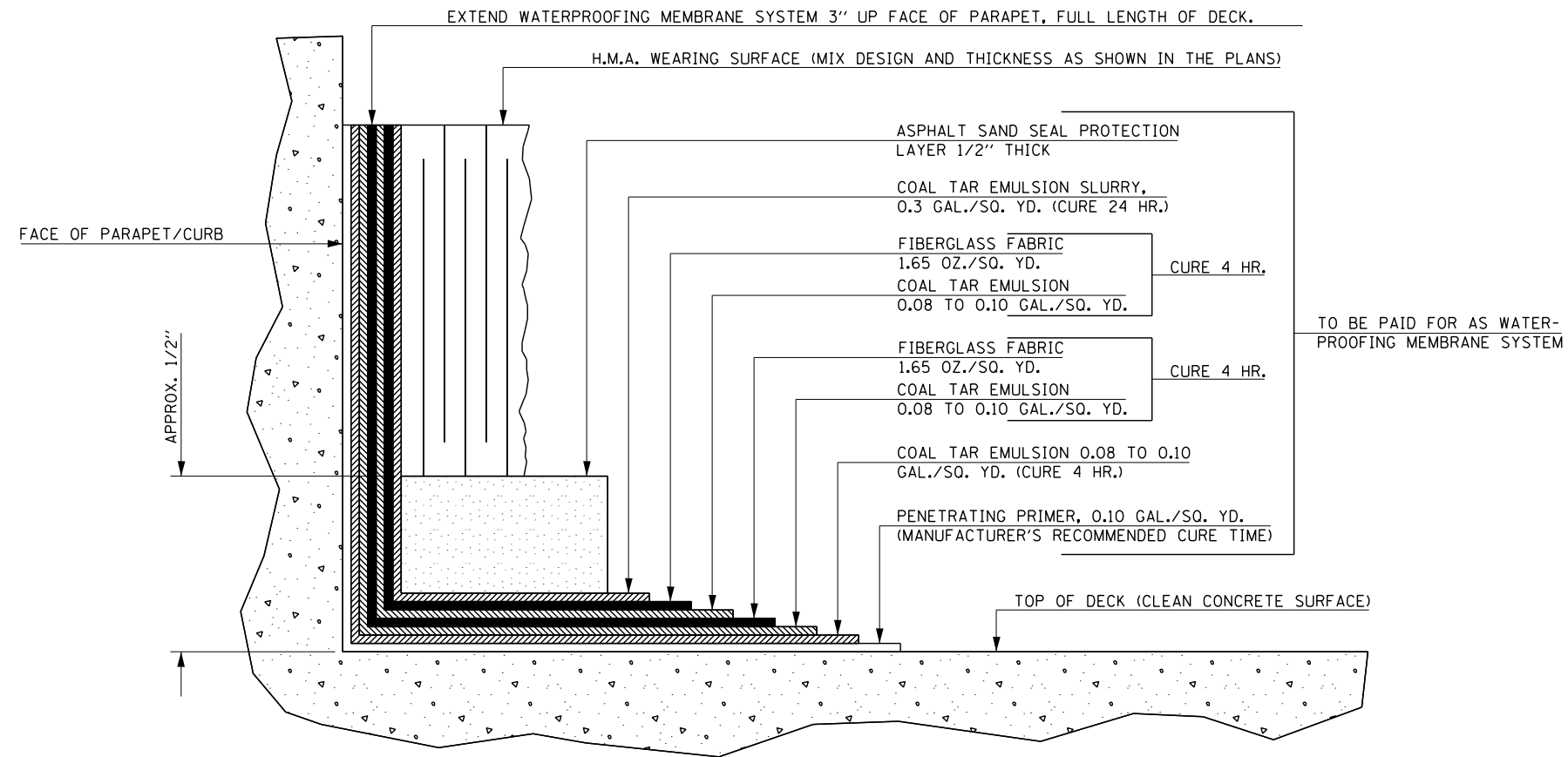
FILE NAME =	USER NAME = shawleres	DESIGNED - RTC	REVISED -
ct:\pwork\pwork\shawleres\d0412844\0570A75_sht-Repairs Plans.dgn		DRAWN - RTC	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISED -
	PLOT DATE = 12/2/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEARING SURFACE & PATCHING DETAILS
S.N. 074-0072

SCALE: SHEET 5 OF 21 SHEETS STA. TO STA.

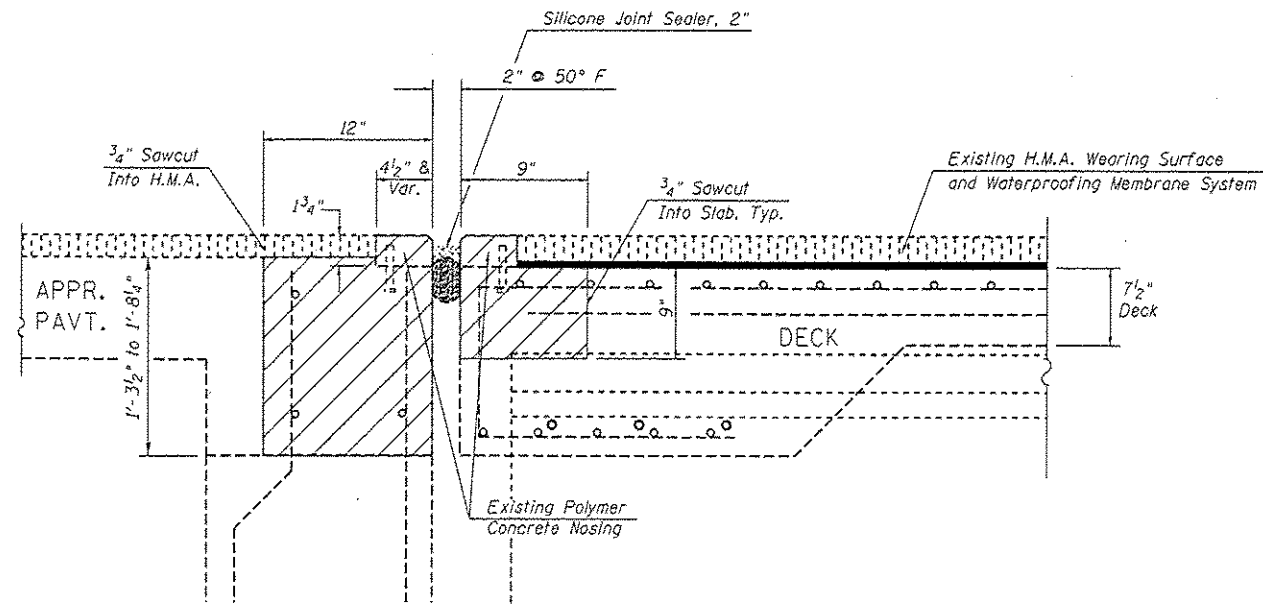
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	52
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				



NOTES

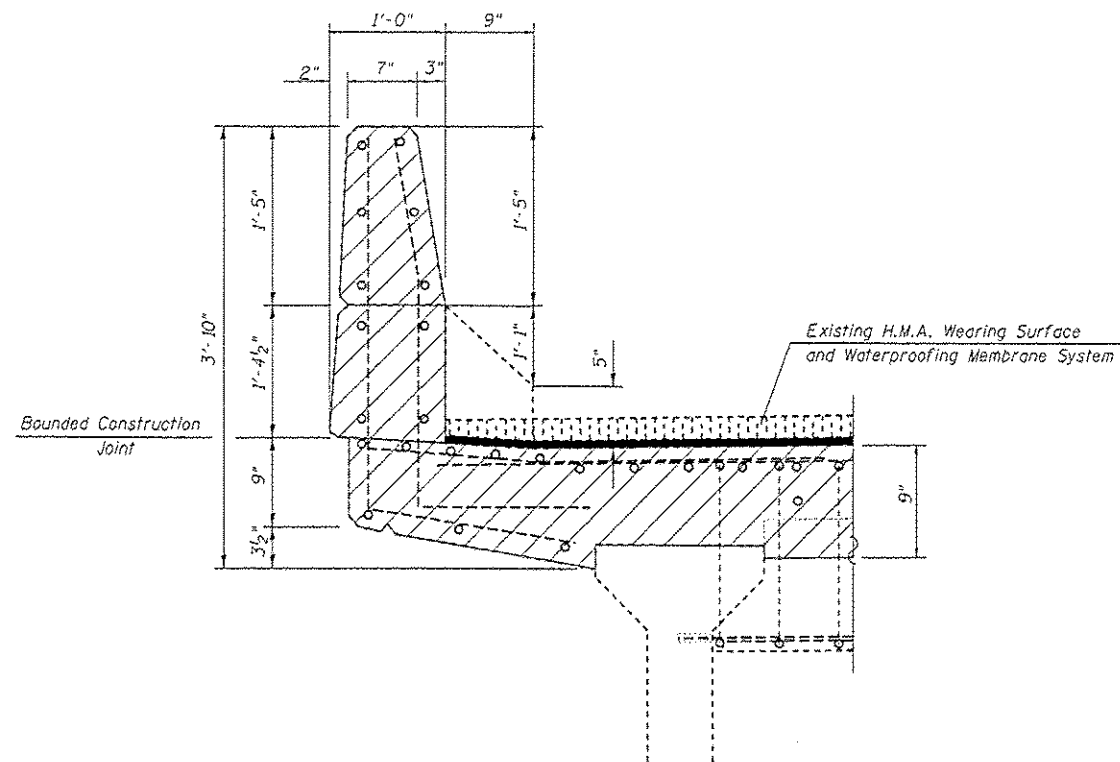
THIS DETAIL HAS BEEN INCLUDED TO ILLUSTRATE THE ASSOCIATED LAYERS AND CURE TIMES NECESSARY FOR THE PLACEMENT OF THE WATERPROOFING MEMBRANE SYSTEM. THIS DETAIL SHALL SUPPLEMENT, NOT SUPERSEDE, SECTION 581 OF THE STANDARD SPECIFICATIONS.

FILE NAME =	USER NAME = showleres	DESIGNED - RTC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATERPROOFING MEMBRANE SYSTEM		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - RTC	REVISED -		S.N. 074-0072		741	(7BR)	PIATT	72	53
	PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISED -		SCALE:	SHEET 6 OF 21 SHEETS	STA.	TO STA.	CONTRACT NO. 70A75		
	PLOT DATE = 12/2/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						



SECTION A-A

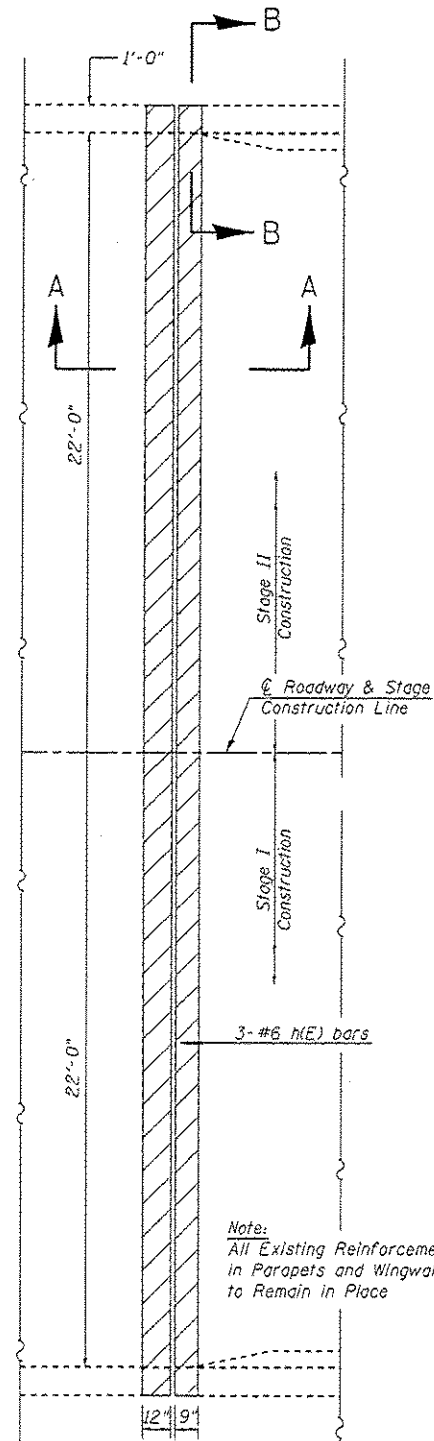
Showing Concrete Removal limits at Abutment / Deck



SECTION B-B

Showing Concrete Removal limits Limits at Parapet

APPR.
PAVT.



PLAN AT JOINT

SHOWING CONCRETE REMOVAL AT HATCH BLOCK & DECK END (SAME AT OPPOSITE JOINT)

DECK

NOTES

The cost of the removal of the existing polymer concrete nosing at the expansion joints at both abutments shall be included in the cost of Concrete Removal.

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.

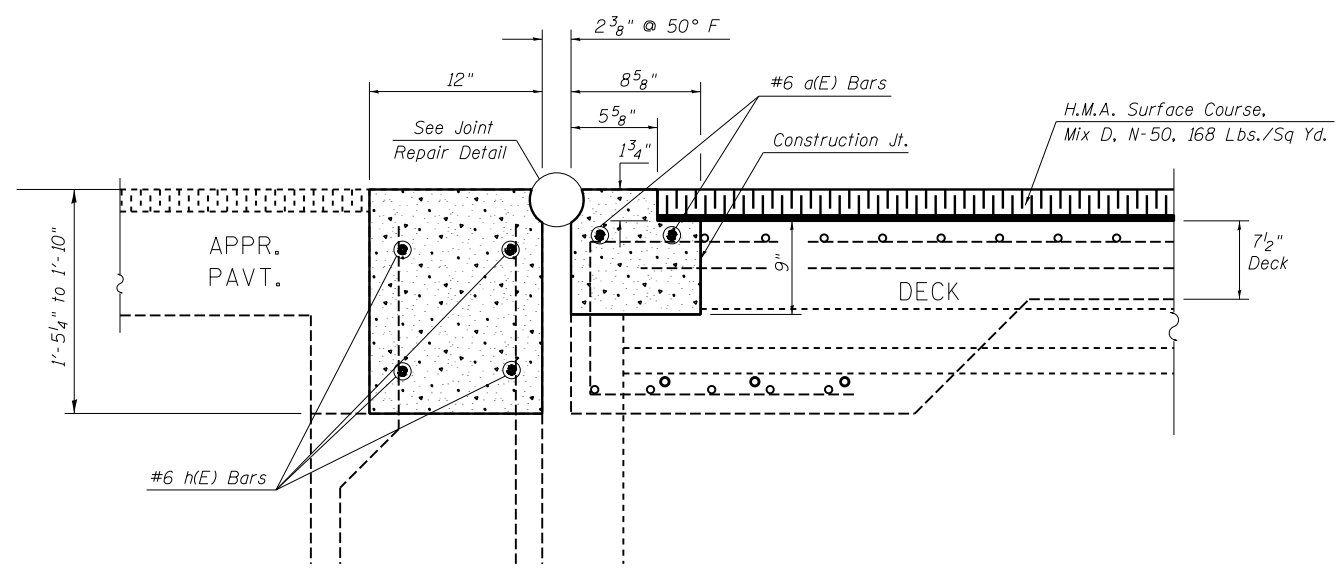
The Existing Expansion Joint Systems Shall be Removed Completely, As well as Any Foreign Material that has Accumulated or Been Placed in the Joint Openings. The Cost for this Work is Included in the Concrete Removal and No Additional Compensation Will Be Allowed.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	8.2

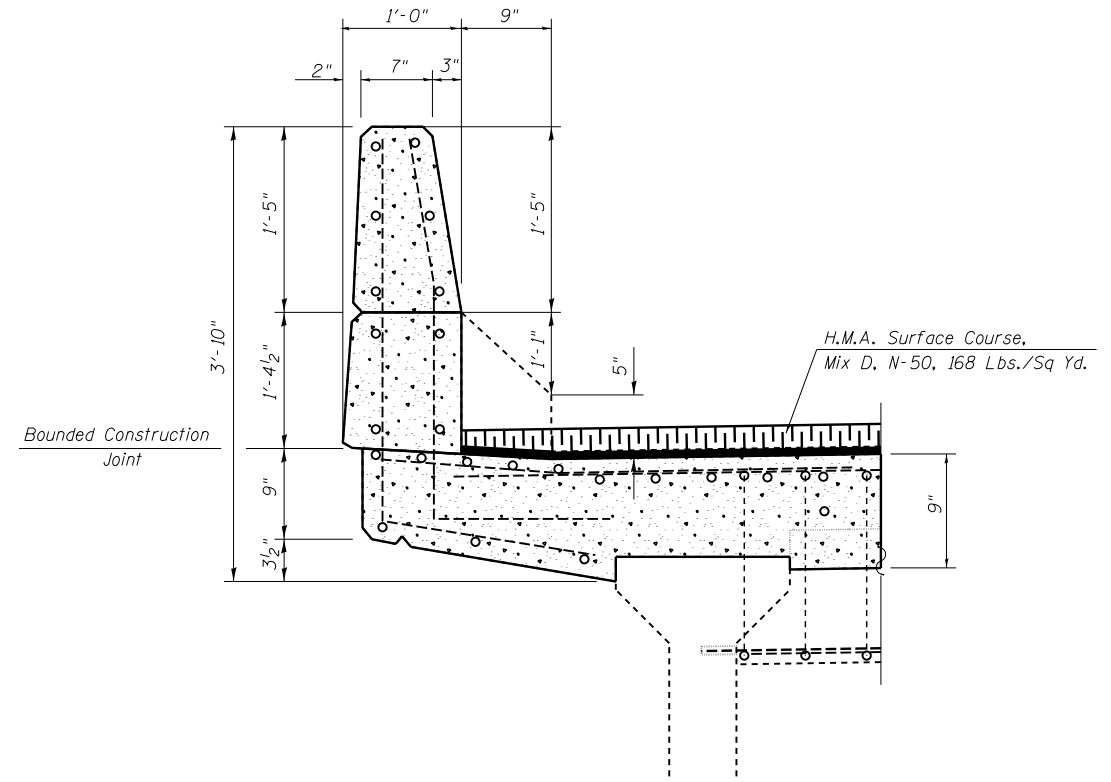
Extreme care must be exercised during concrete removal operations, any damage done to the PPC I beams shall be repaired by the contractor, at his expense, to the satisfaction of the Engineer.

FILE NAME *	USER NAME * showleres	DESIGNED - RTC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE REMOVAL DETAIL S.N. 074-0072	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\showleres\20141224\0508275_sht-Repairs Plans.dgn	DRAWN - RTC	REVISED - ESS	741			(TBR)	PIATT	72	54	
PLOT SCALE * 48.0000' / in.	CHECKED - TJB	REVISED -	CONTRACT NO. 70A75							
PLOT DATE * 12/2/2014	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



SECTION A-A

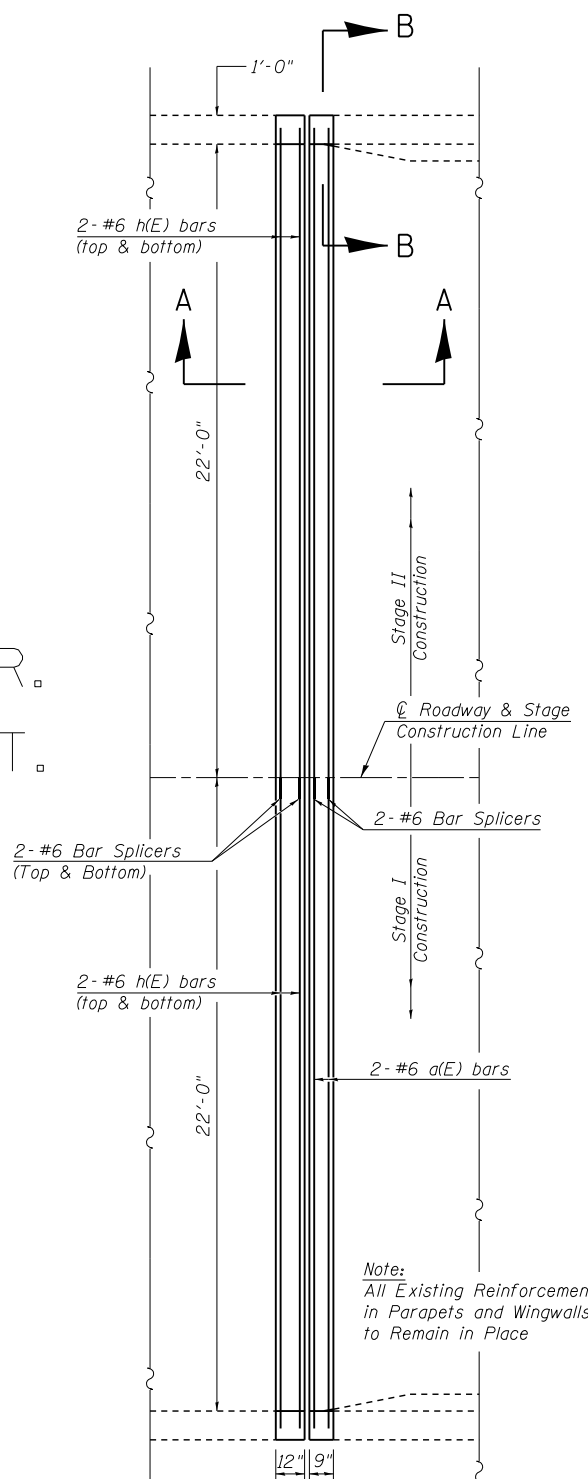
Showing Concrete Superstructure limits at Abutment / Deck



SECTION B-B

Showing Concrete Superstructure Limits at Parapet

APPR.
PAVT.



PLAN AT JOINT
SHOWING REINFORCEMENT
AT HATCH BLOCK & DECK END
(SAME AT OPPOSITE JOINT)

DECK

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.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#6	22'-9"	—
h(E)	16	#6	22'-9"	—
Reinforcement Bars, Epoxy Coated		Pound		830.0
Bar Splicers		Each		12.0
Concrete Superstructures		Cu Yd		8.6
Preformed Joint Strip Seal		Foot		96.0

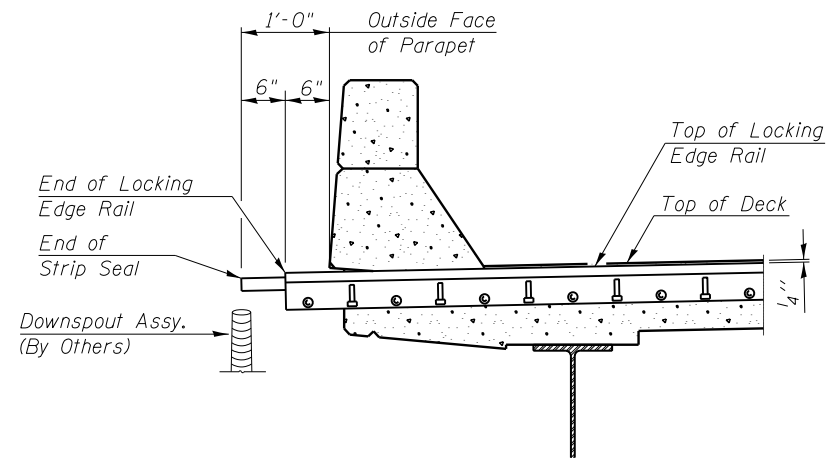
FILE NAME =	USER NAME = showleres	DESIGNED - RTC	REVISED -
ct:\pwork\pwork\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - RTC	REVISED - ESS
	PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISED -
	PLOT DATE = 12/2/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

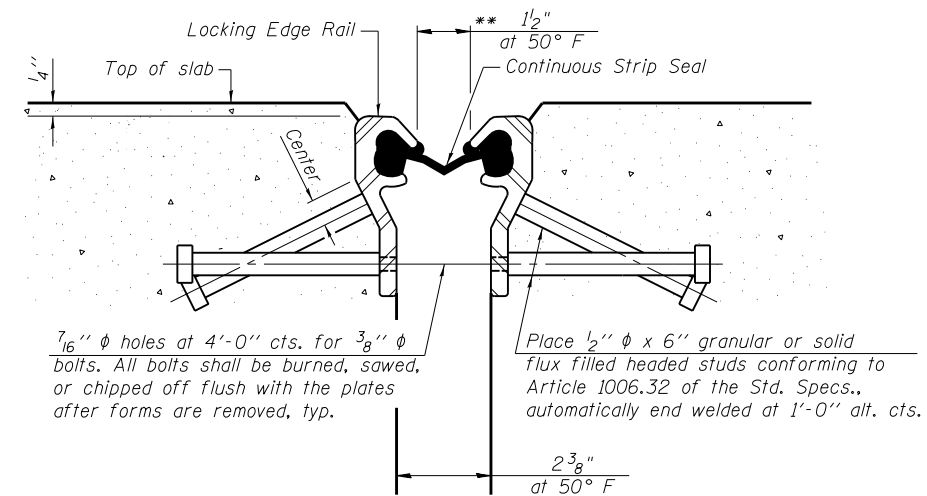
**SUPERSTRUCTURE REPAIR DETAIL
S.N. 074-0072**

SCALE: SHEET 8 OF 21 SHEETS STA. TO STA.

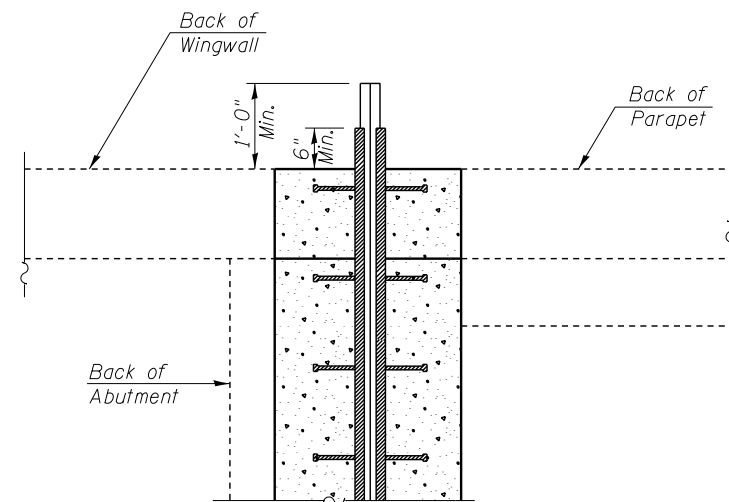
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	55
			CONTRACT NO. 70A75	
ILLINOIS FED. AID PROJECT				



SECTION AT PROPOSED JOINT



SECTION THRU EXPANSION STRIP SEAL JOINT



PLAN VIEW AT PARAPET

- * OMIT WELD AT SEAL OPENING.
- ** THE MINIMUM DIMENSION SHALL BE 1/2" FOR INSTALLATION PURPOSES.

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.

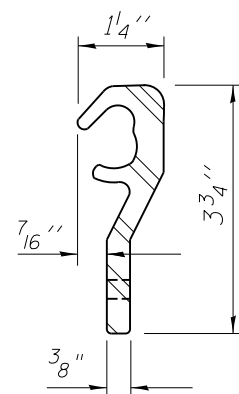
THE LOCKING EDGE RAILS DEPICTED ARE CONCEPTUAL ONLY, EXCEPT FOR THE MINIMUM DIMENSIONS SHOWN. THE ACTUAL CONFIGURATION OF THE LOCKING EDGE RAILS AND MATCHING STRIP SEAL MAY VARY FROM MANUFACTURER TO MANUFACTURER. FLANGED EDGE RAILS WILL NOT BE ALLOWED. LOCKING EDGE RAILS MAY BE SPLICED AT SLOPE DISCONTINUITIES AND STAGE CONSTRUCTION JOINTS. THE INSIDE OF THE LOCKING EDGE RAIL GROVE SHALL BE FREE OF WELD RESIDUE.

THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS SHALL BE FOLLOWED.

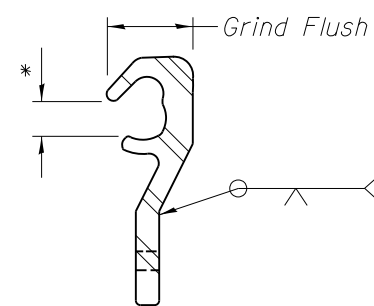
ALL STEEL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION ACCORDING TO ARTICLE 520.03 OF THE STANDARD SPECIFICATIONS.

MAXIMUM SPACE BETWEEN RAIL SEGMENTS AT STAGE LINES SHALL BE 3/16", SEALED WITH A SUITABLE SEALANT. JOINTS IN RAILS WITHIN 10 FT. OF CURBS SHALL BE WELDED.

SEE SUPERSTRUCTURE REPAIR DETAILS FOR REINFORCEMENT REQUIRED.



ROLLED (EXTRUDED) RAIL



LOCKING EDGE RAIL SPLICE

BILL OF MATERIAL

Structure	Item	Unit	Total
N. Abut.	Preformed Joint Strip Seal	Foot	48.0
S. Abut.	Preformed Joint Strip Seal	Foot	48.0

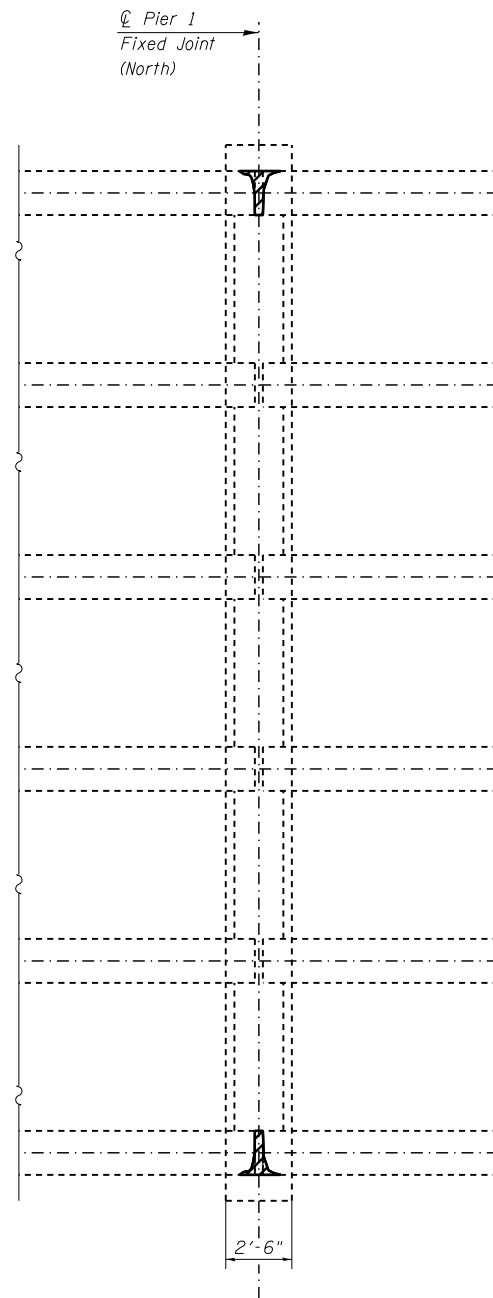
FILE NAME =	USER NAME = showleres	DESIGNED - RTC	REVISED -
ct:\pw_work\p\id\showleres\d0412844\0570475_sht-Repair Plans.dgn		DRAWN - RTC	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISED -
	PLOT DATE = 12/2/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

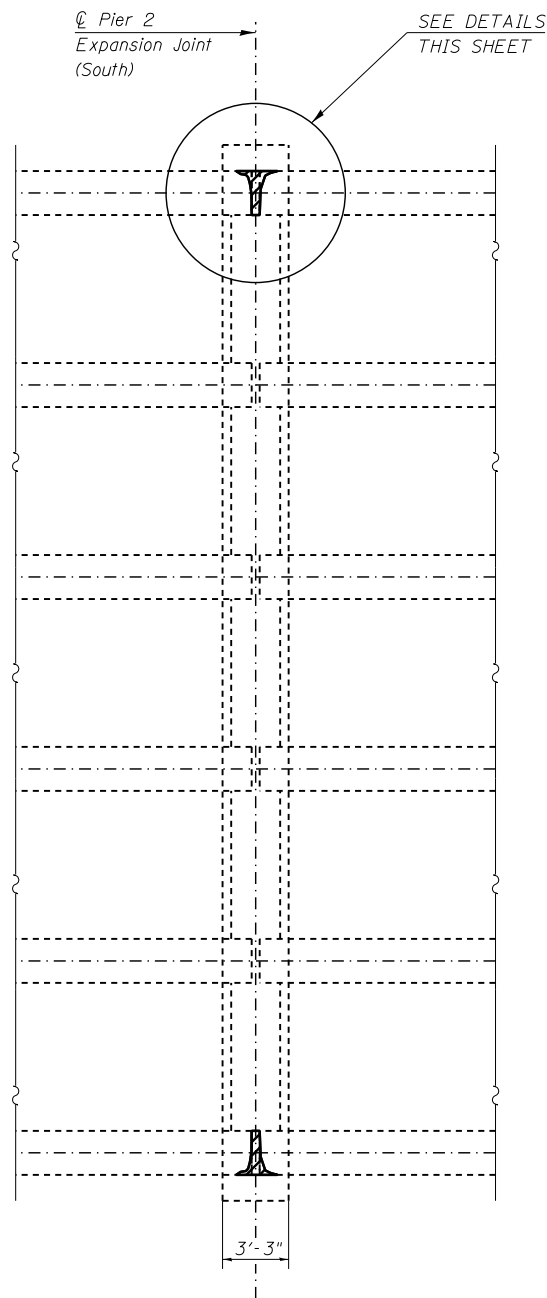
**JOINT REPAIRS DETAIL
S.N. 074-0072**

SCALE: SHEET 9 OF 21 SHEETS STA. TO STA.

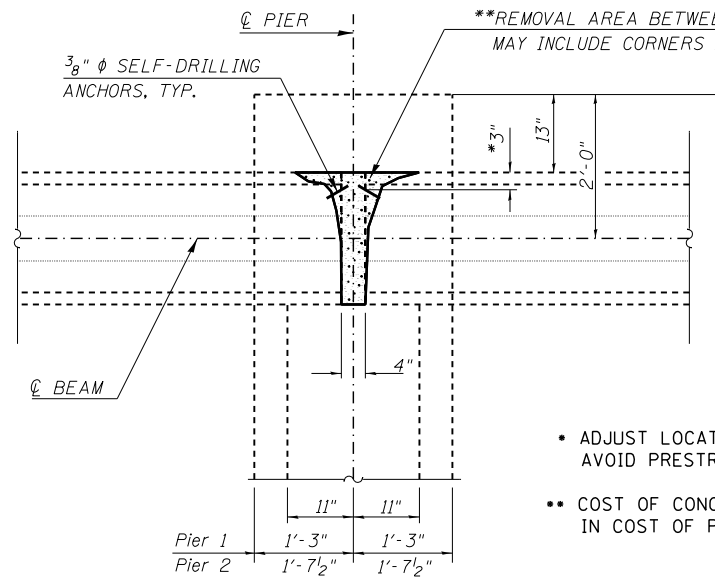
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	56
			CONTRACT NO. 70A75	
ILLINOIS FED. AID PROJECT				



PLAN AT PIER 1
(SHOWING REPAIR LOCATIONS)

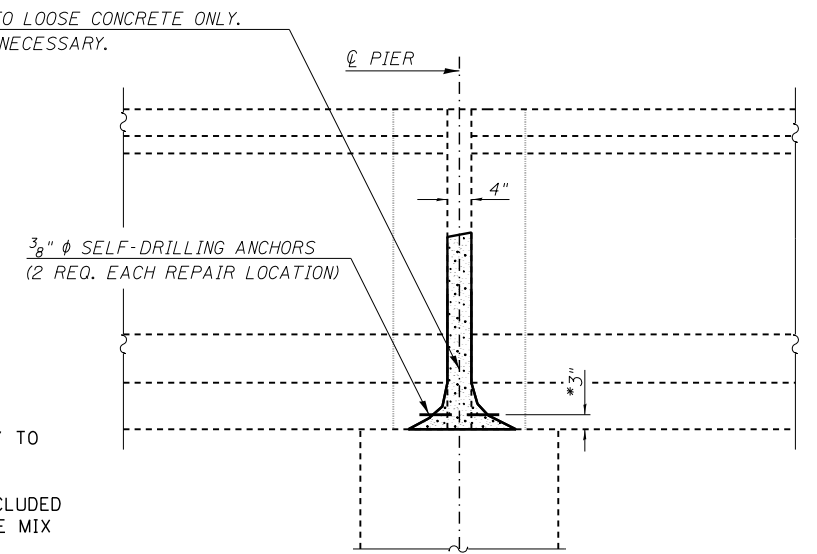


PLAN AT PIER 2
(SHOWING REPAIR LOCATIONS)

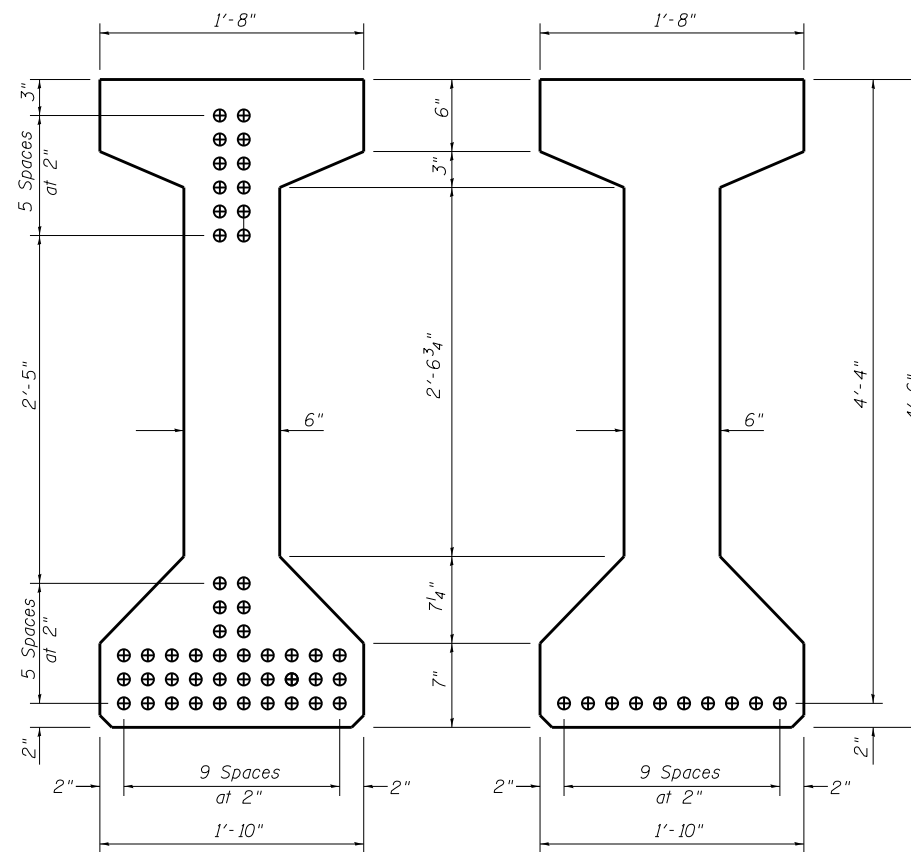


PLAN
(COMPRESSION BLOCK REPAIR)

- ADJUST LOCATION AS NECESSARY TO AVOID PRESTRESSING STRANDS
- COST OF CONCRETE REMOVAL INCLUDED IN COST OF PUMPABLE CONCRETE MIX



ELEVATION
(COMPRESSION BLOCK REPAIR)



SECTION OF P.P.C. I-BEAM

SPAN 2
(SHOWING PRE-STRESSING STRANDS)

SECTION OF P.P.C. I-BEAM

SPANS 1 & 3
(SHOWING PRE-STRESSING STRANDS)

NOTES

The removal of the existing concrete at the compression block repair locations shall be limited to all loose or delaminated concrete only. The contractor shall use extreme care during this removal process to prevent any damage to the existing pre-stressing strands. Special attention shall also be given when using self-drilling anchors in the patch areas. The anchors should not make contact with any of the pre-stressing strands.

The contractor shall use a pumpable concrete mix for the repair. See special provision for pumpable concrete mix for mix requirements. Costs for all work and materials necessary to complete the repairs as shown on this sheet shall be included in cost of Pumpable Concrete Mix.

BILL OF MATERIAL

Item	Unit	Total
Pumpable Concrete Mix	Cu Ft	3.0

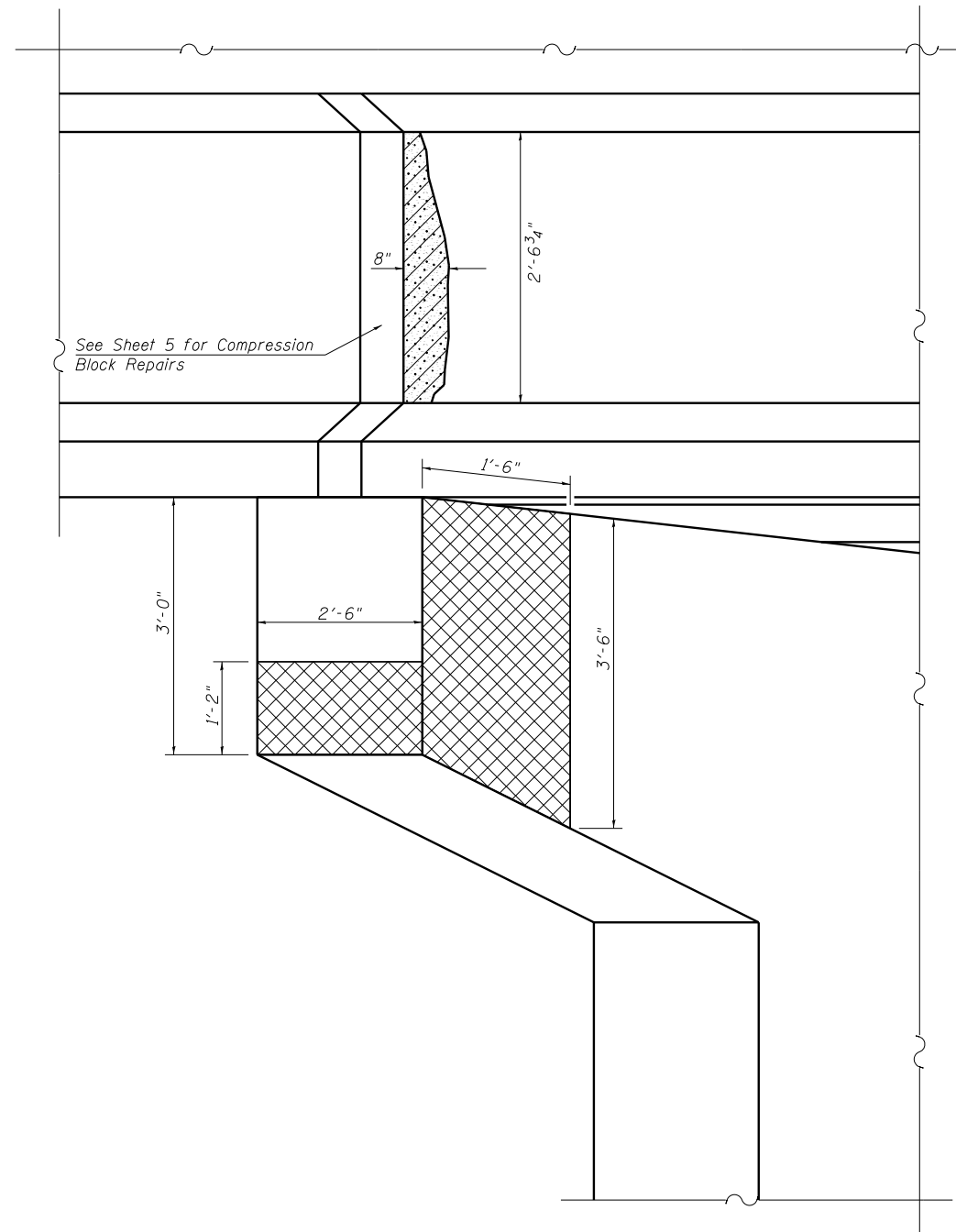
FILE NAME =	USER NAME = showleres	DESIGNED - RTC	REVISED -
ct:\pwork\pwork\showleres\d0412844\0570475_sht-Repair Plans.dgn		DRAWN - RTC	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISED -
	PLOT DATE = 12/2/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

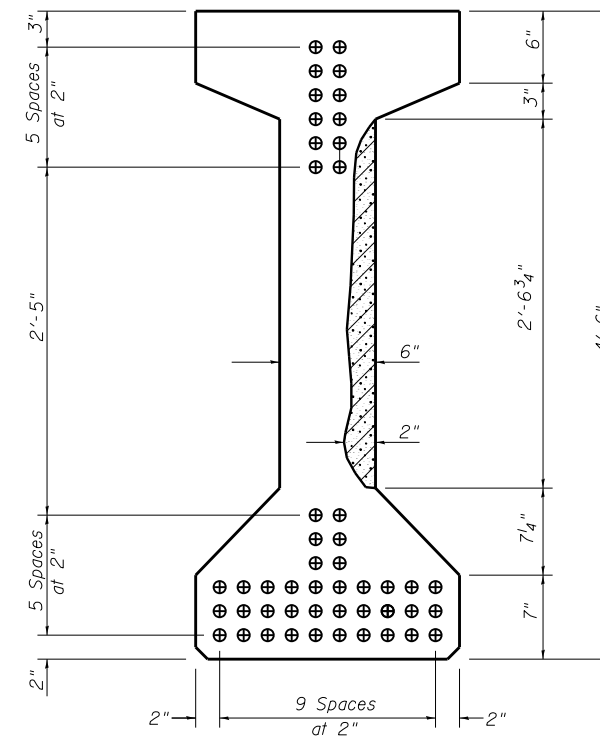
COMPRESSION BLOCK REPAIRS
S.N. 074-0072

SCALE: SHEET 10 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	57
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				



ISOMETRIC VIEW AT PIER 1
WEST FACE OF STRUCTURE



SECTION OF P.P.C. I-BEAM
SPAN 2
(SHOWING PRE-STRESSING STRANDS)

LEGEND

- Polymer Modified Portland Cement Mortar
- Structural Repair of Concrete, Depth Equal to or Less Than 5"

NOTE:

See Special Provision for Structural Repair of Concrete & Polymer Modified Portland Cement Mortar.

BILL OF MATERIAL

Structure	Item	Unit	Total
074-0072	Structural Repair of Concrete, Depth Equal to or Less than 5"	Sq. Ft.	8.0
	Polymer Modified Portland Cement Mortar	Sq. Ft.	1.8

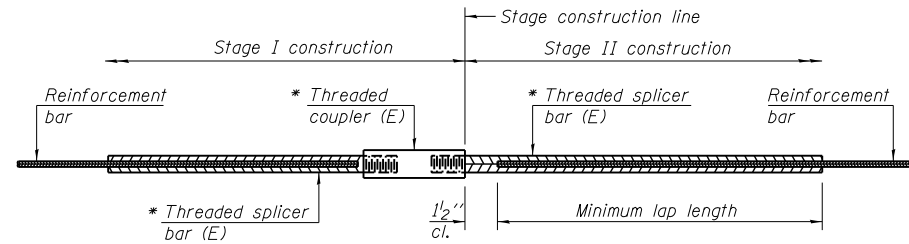
FILE NAME =	USER NAME = showleres	DESIGNED - RTC	REVISED -
ct:\pw\work\p\id\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - RTC	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISED -
	PLOT DATE = 12/2/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIR AND PPC I-BEAM REPAIRS
S.N. 074-0072

SCALE: SHEET 11 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	58
CONTRACT NO. 70A75				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

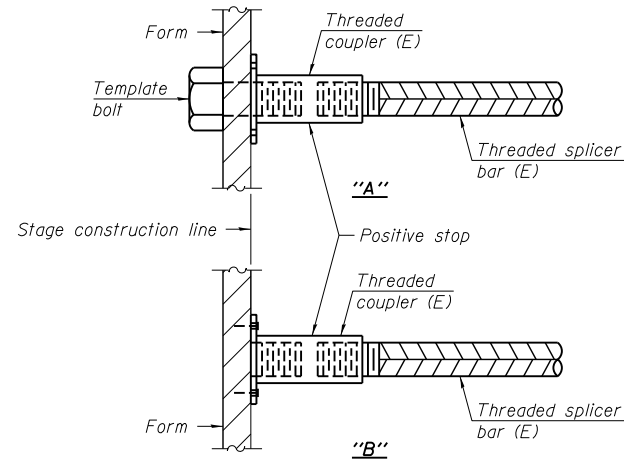
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

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

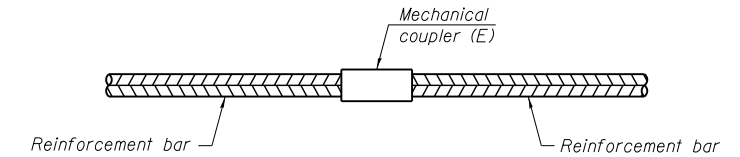
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
N. Hatch Block	6	4	Table 3
S. Hatch Block	6	4	Table 3
N. Deck End	6	2	Table 3
S. Deck End	6	2	Table 3



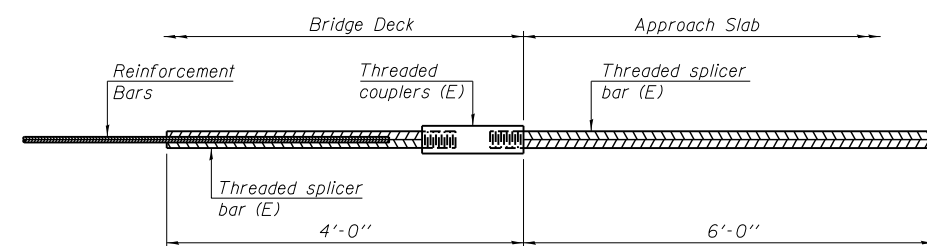
INSTALLATION AND SETTING METHODS

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



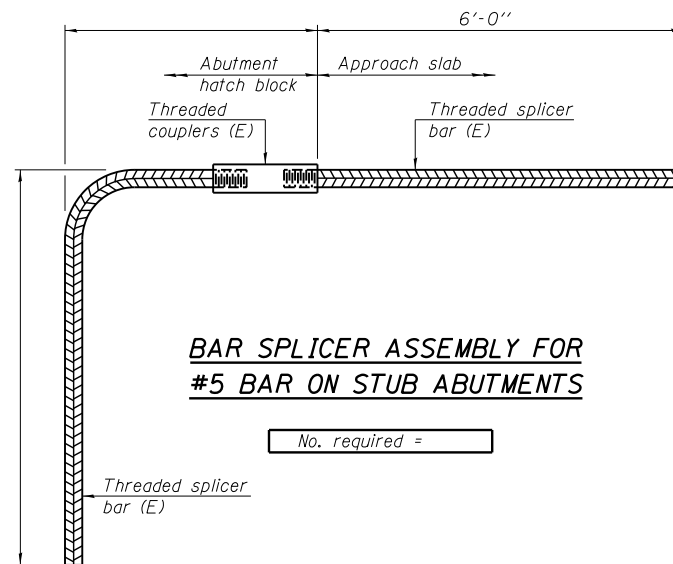
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1

7-1-10

FILE NAME =	USER NAME = showleres	DESIGNED - RTC	REVISED -
		DRAWN - RTC	REVISED -
		CHECKED - TJB	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 074-0072

SCALE: SHEET 12 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	59
CONTRACT NO. 70A75			ILLINOIS FED. AID PROJECT	

AS BUILTS (FOR INFORMATION ONLY)

S.N. 074-0072

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

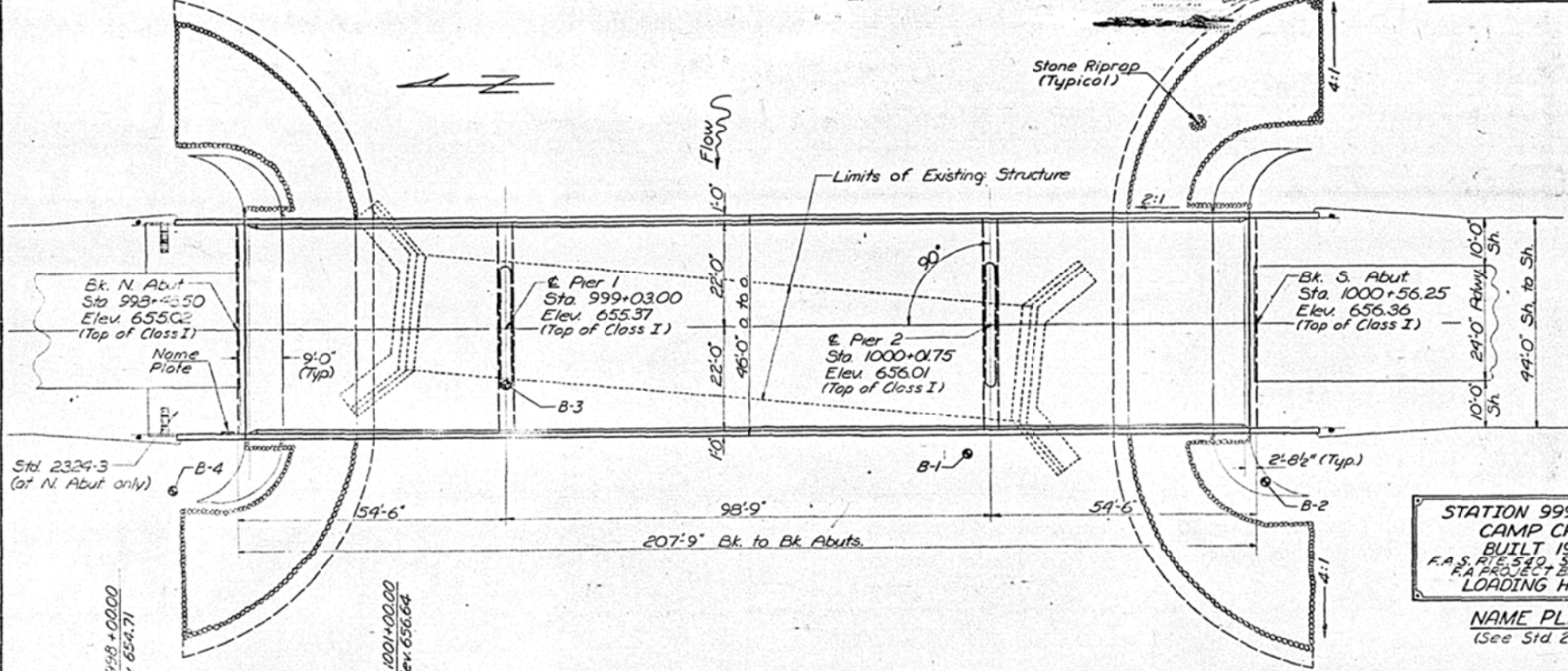
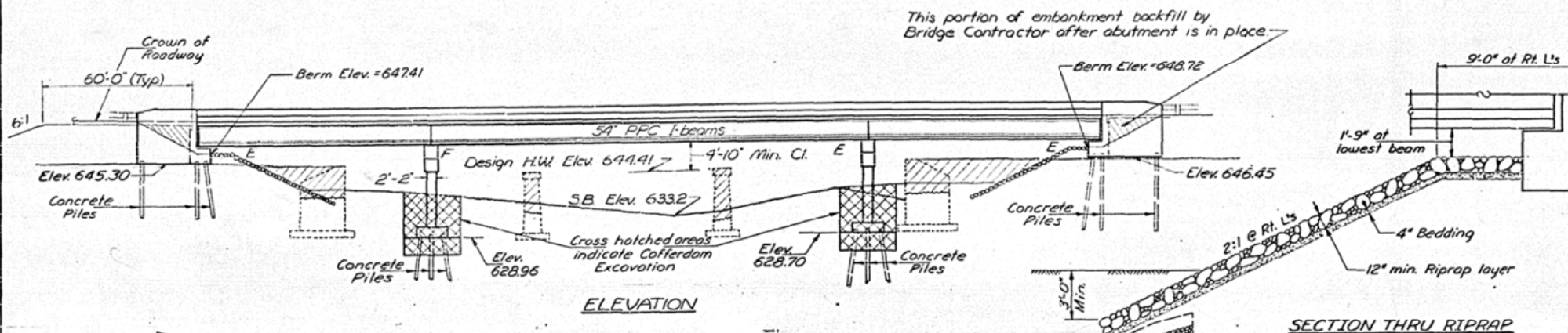
ROUTE NO.	SECTION	COUNT	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 16 SHEETS
F.A.S. 540	7BR	PIATT	34	12	
PRO. ROAD DIST. NO. 7	ILLINOIS	FAS 540 PROJECT			

BENCHMARK: Chiseled "D" on top of wingwall, NE corner of bridge at Sta. 999+10. Elev. 645.07

EXISTING STRUCTURE: Built in 1921 as SBI 10, Sec. 7B at Sta. 999+10. Consists of 3 RC slab spans on RC closed abutments and concrete piers. Contractor shall remove existing structure as shown during construction. No salvage. Traffic to be detoured over state marked routes.

GENERAL NOTES

The basic lead silico chromate paint system shall be used for shop and field painting of structural steel and exposed portions of bearing plates. The Contractor shall drive one each concrete test piles at Pier 1 and South Abutment in a permanent location as directed by the Engineer before ordering the remainder of the piles. Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied. The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete. For Boring Data see the Proposal. The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course, Class I	Tons	53		53
Removal of Existing Structures	Each	1		1
Cofferdam Excavation	Cu.Yds		407	407
Protective Coat	Sq.Yds	190		190
Class X Concrete	Cu.Yds	324.7	253.5	578.2
Furnishing & Erecting Precast Prestressed Concrete I-Beams (54")	Lin.Ft.	1221		1221
Structural Steel	Lbs.	340		340
Reinforcement Bars	Lbs.	75,610	22,140	97,750
Concrete Piles	Lin.Ft.		1849	1849
Test Piles Concrete	Each		2	2
Stone Riprap	Sq.Yds		1680	1680
Neoprene Expansion Joint (2")	Lin.Ft.	90		90
Waterproofing Membrane System	Sq.Yds	965		965
Name Plates	Each	1		1
Seal Coat Concrete	Cu.Yds		86	86
Cofferdams	Each		2	2

* See Special Provisions

STATION 999 + 5238
CAMP CREEK
BUILT 19
F.A.S. 540, SEC. 7BR
PROJECT + 24-3-540(102)
LOADING HS20
NAME PLATE
(See Std 2113)

DESIGN STRESSES

FIELD UNITS	PRECAST PRESTRESSED UNITS
$f_c = 1200$ psi - Deck Slab	$f_c = 6000$ psi
$f_c = 1400$ psi - Curb, Parapet	$f_{ci} = 5380$ psi (Span 2 Bms); 4000 psi (Span 1 & 3 Bms)
$f_s = 20,000$ psi - Struct. Reinf. for Parapet & Transverse Slab	$f_s = 270,000$ psi - $\frac{1}{2}$ " ϕ strands
	$f_{si} = 189,000$ psi - $\frac{1}{2}$ " ϕ strands

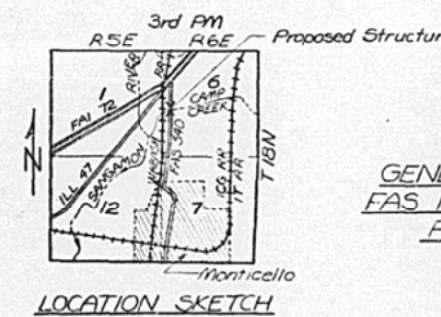
SUBSTRUCTURE - Load Factor Design
 $f_c = 3500$ psi - Substruct.
 $f_y = 60,000$ psi (Grade 60) - Substruct. & Long. Slab

DESIGN LOADING: HS20-44
Design to current AASHTO

Allow 25 PSF for future wearing surface

WATERWAY INFORMATION

Drainage Area	33540 acres
Present Opening	858 sq. ft.
Required Opening	1125 sq. ft.
Proposed Opening	1125 sq. ft.
Design Q(50)	5120 cfs
Q(100)	6160 cfs
Created Head(50)	0.56'
Created Head(100)	0.67'
100 year Headwater Elev.	645.96
50 year Backwater Elev.	645.96
100 year Backwater Elev.	647.03

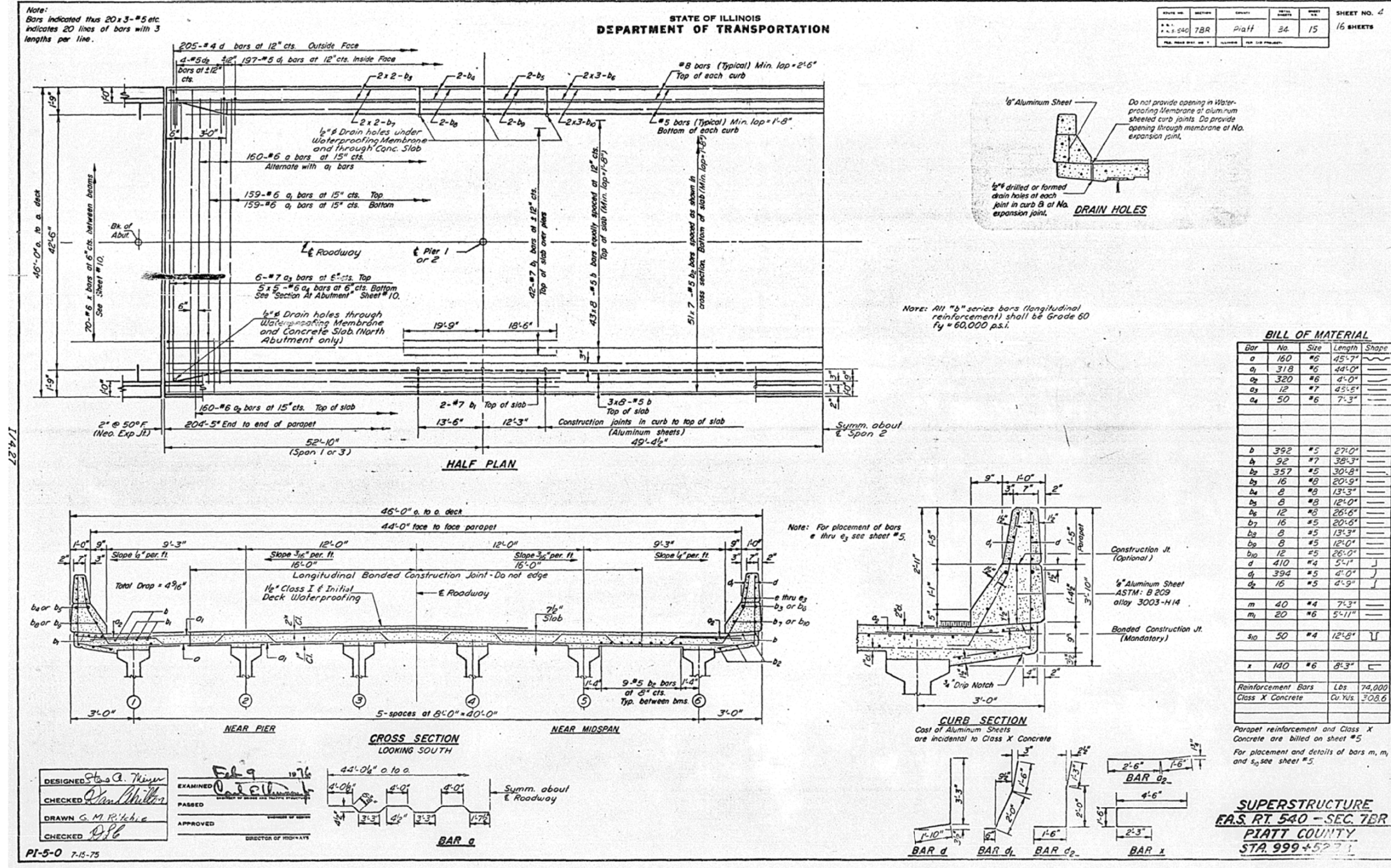


GENERAL PLAN AND ELEVATION
FAS RTE 540 OVER CAMP CREEK
FAS RTE 540, SEC. 7BR
PIATT COUNTY
STATION 999+5238

S10.14

AS BUILTS (FOR INFORMATION ONLY)

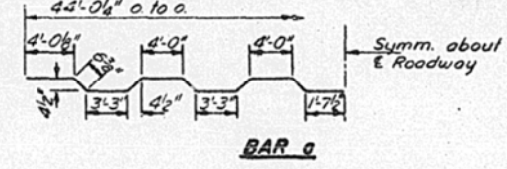
S.N. 074-0072



1/4, 2/7

DESIGNED *Steve A. Meyer*
 CHECKED *Sam Miller*
 DRAWN *G. M. Ritchie*
 CHECKED *D.S.C.*

EXAMINED *Feb 9 1976*
 PASSED
 APPROVED



PI-5-0 7-15-75

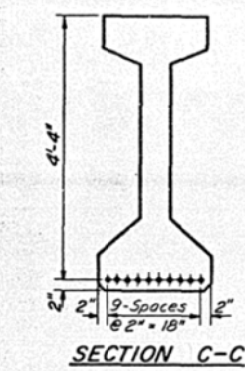
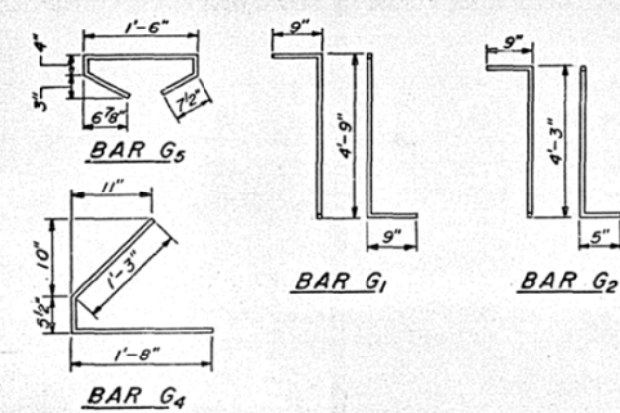
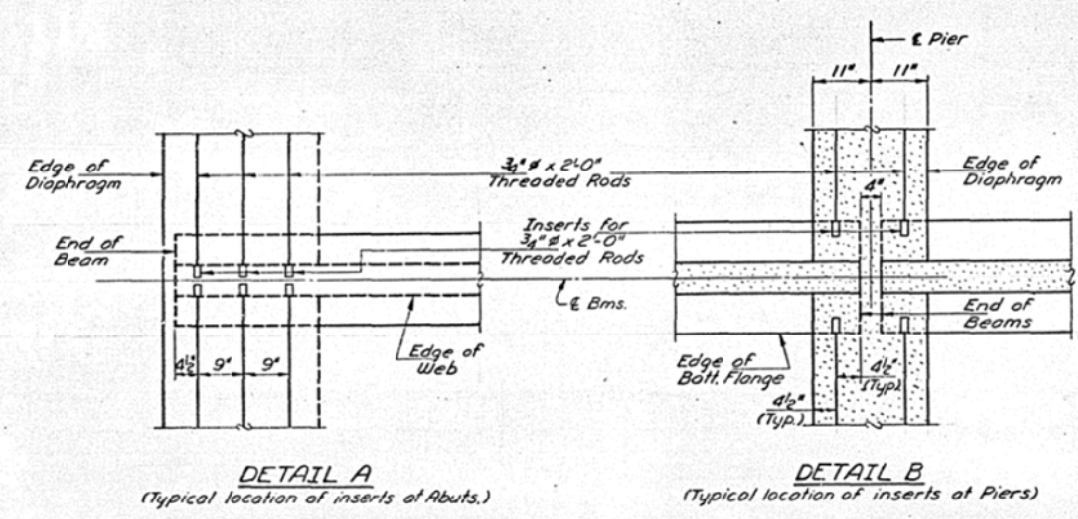
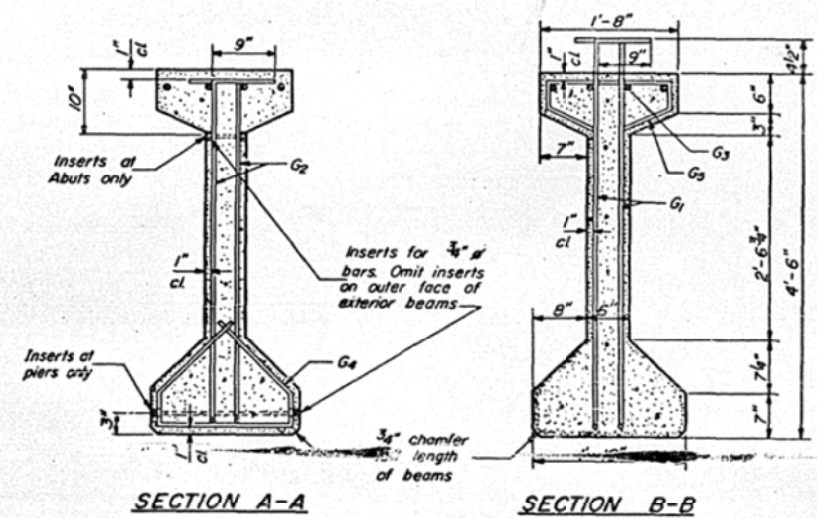
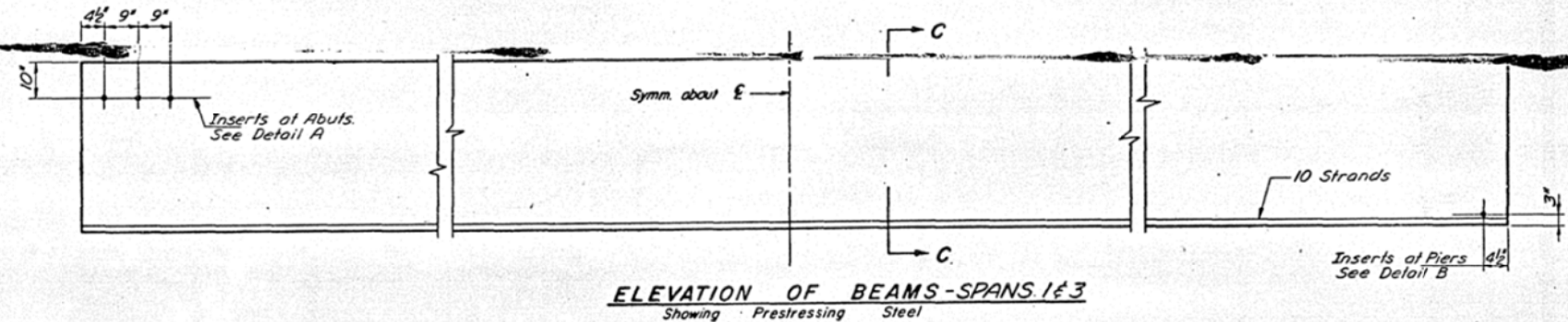
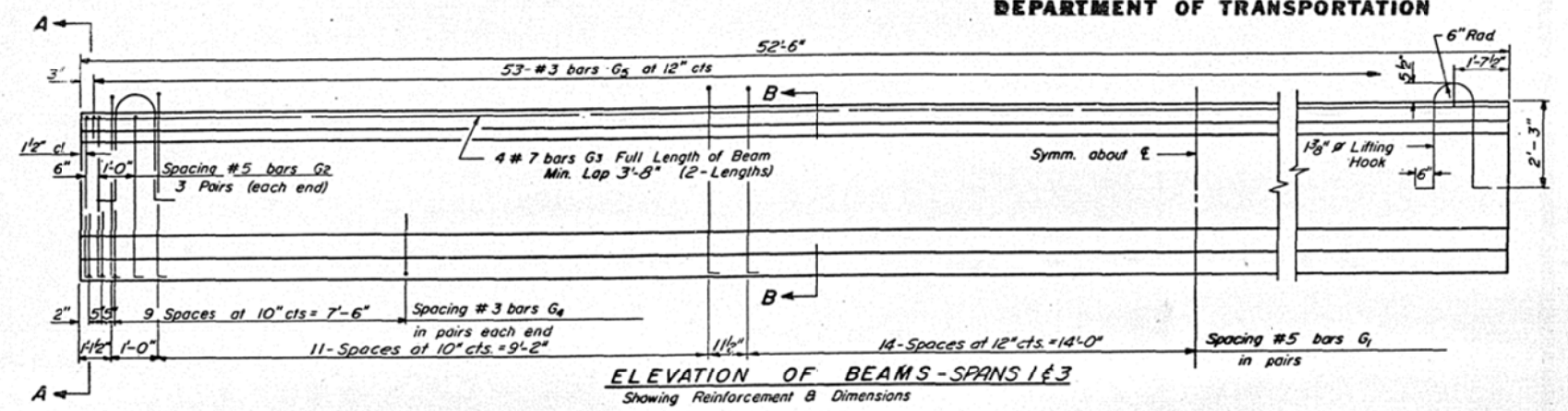
SUPERSTRUCTURE
EAS. RT. 540 - SEC. 7BR
PIATT COUNTY
STA. 999+52.71

AS BUILTS (FOR INFORMATION ONLY)

S.N. 074-0072

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 3	16 SHEETS
DATE: 5/10/72	BY: PLATT
PROJECT: 7BR	SHEET: 34
DRAWN: G.M.P.	DATE: 9/15/72



***BAR LIST**

Bar No.	Size	Length	Shape
G1	#5	6'-3"	7L
G2	#5	5'-5"	7L
G3	#7	28'-0"	—
G4	#3	3'-4"	∟
G5	#3	3'-5"	∩

* For one beam only

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 54"	Lin Ft.	630

NOTES

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 54 in."

Prestressing Steel shall have a nominal diameter of 1/2"

Inserts for 3/4" or threaded rods are to be two stud, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

Steel for lifting hooks shall be non-deformed bars fy = 40,000 psi.

PRC I-BEAM DETAILS
SPANS 1&3
F.A.S. RT. 540 - SEC. 7BR
PIATT COUNTY
STA. 999+52.38

DESIGNED: Stone A. Morgan
CHECKED: Dan Abulter
DRAWN: G.M.P.
CHECKED: D.P.P.

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]
DIRECTOR OF HIGHWAYS

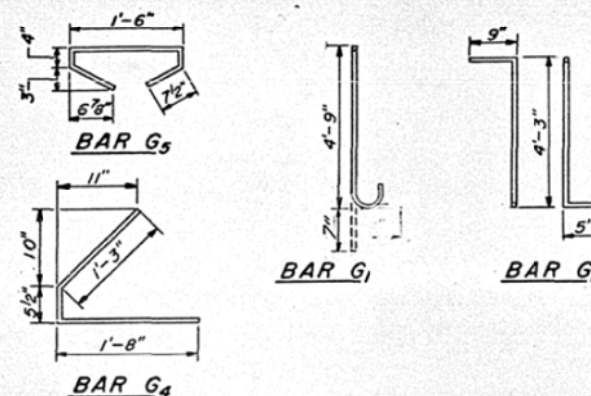
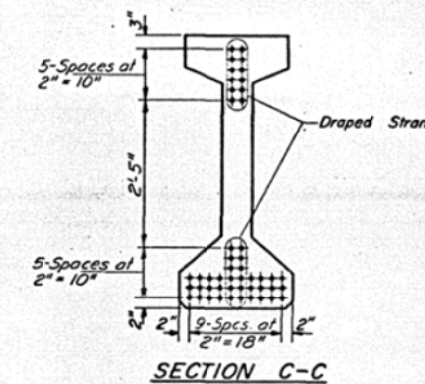
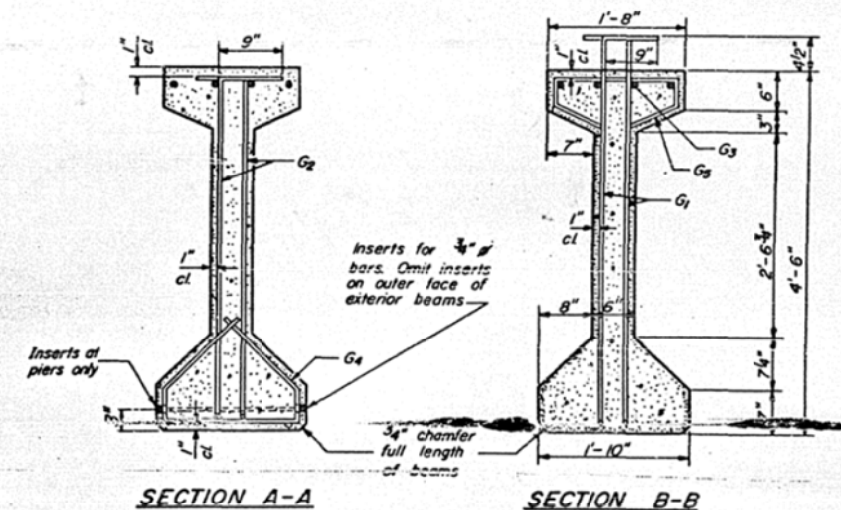
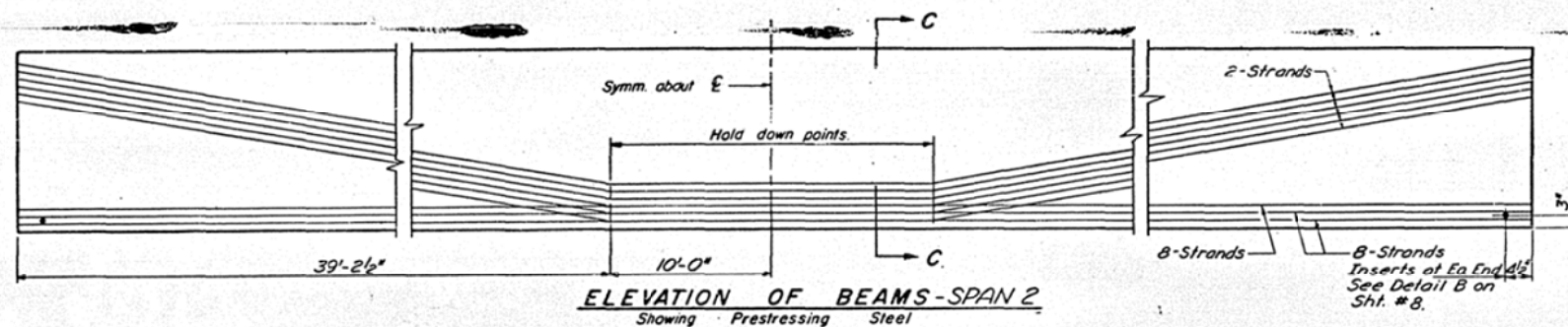
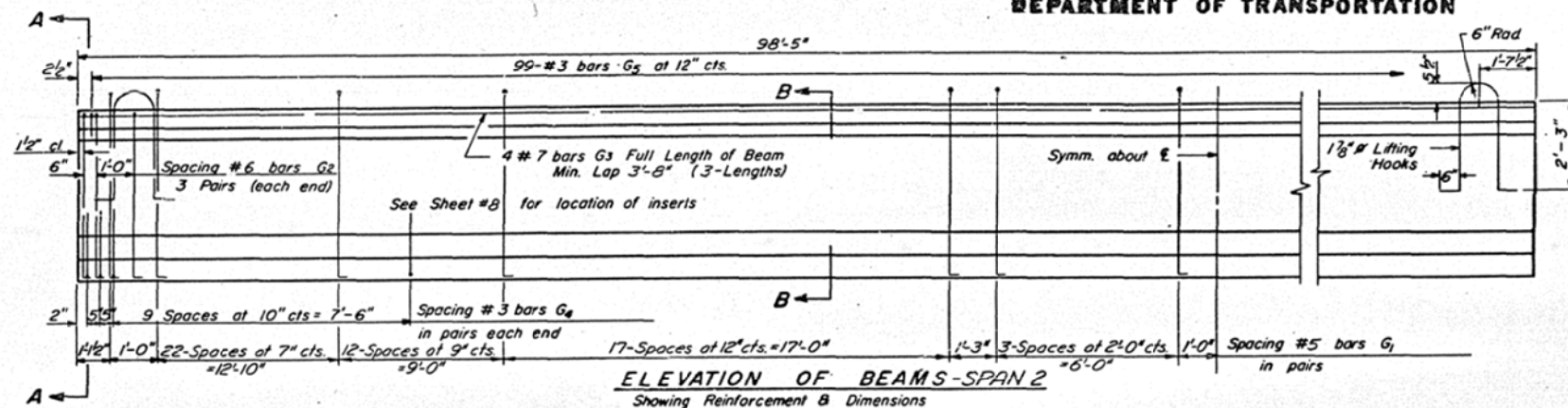
PI-4-54 9-15-72

AS BUILTS (FOR INFORMATION ONLY)

S.N. 074-0072

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 9	TOTAL SHEETS 16
PROJECT NO. 7BR	PIATT 34 20



***BAR LIST**

Bar No.	Size	Length	Shape
G1	#5	6'-1"	L
G2	#6	5'-5"	L
G3	#7	35'-2"	—
G4	#3	3'-4 1/2"	L
G5	#3	3'-5"	O

* For one beam only

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 54"	Lin. Ft.	591

NOTES

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 54 in."

Prestressing Steel shall have a nominal diameter of 1/2"

Inserts for 3/4" threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

Steel for lifting hooks shall be non-deformed bars $f_y = 40,000$ psi.

PPC I-BEAM DETAILS
SPAN 2
F.A.S. RT. 540 - SEC. 7BR
PIATT COUNTY
STA. 999 + 52.38

DESIGNED <i>Stine A. Meyer</i>	EXAMINED <i>Feb 9 1976</i>
CHECKED <i>[Signature]</i>	PASSED <i>[Signature]</i>
DRAWN <i>G.M.P.</i>	APPROVED _____
CHECKED <i>[Signature]</i>	DIRECTOR OF HIGHWAYS

PI-4-54 9-15-72

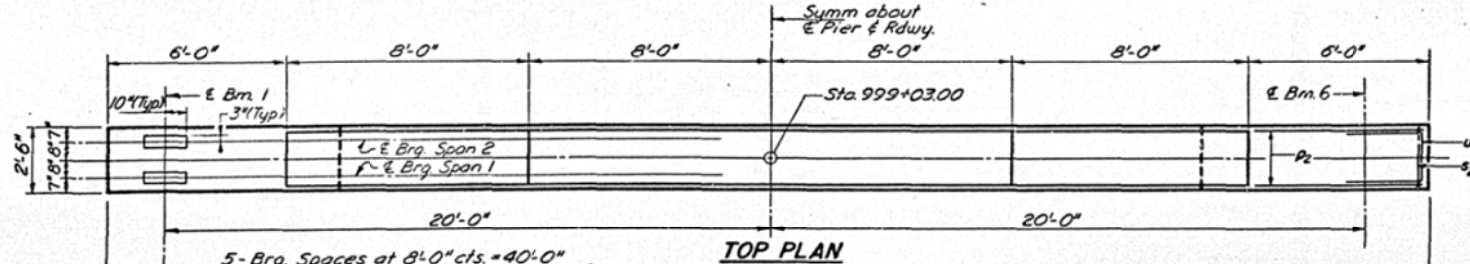
AS BUILTS (FOR INFORMATION ONLY)

S.N. 074-0072

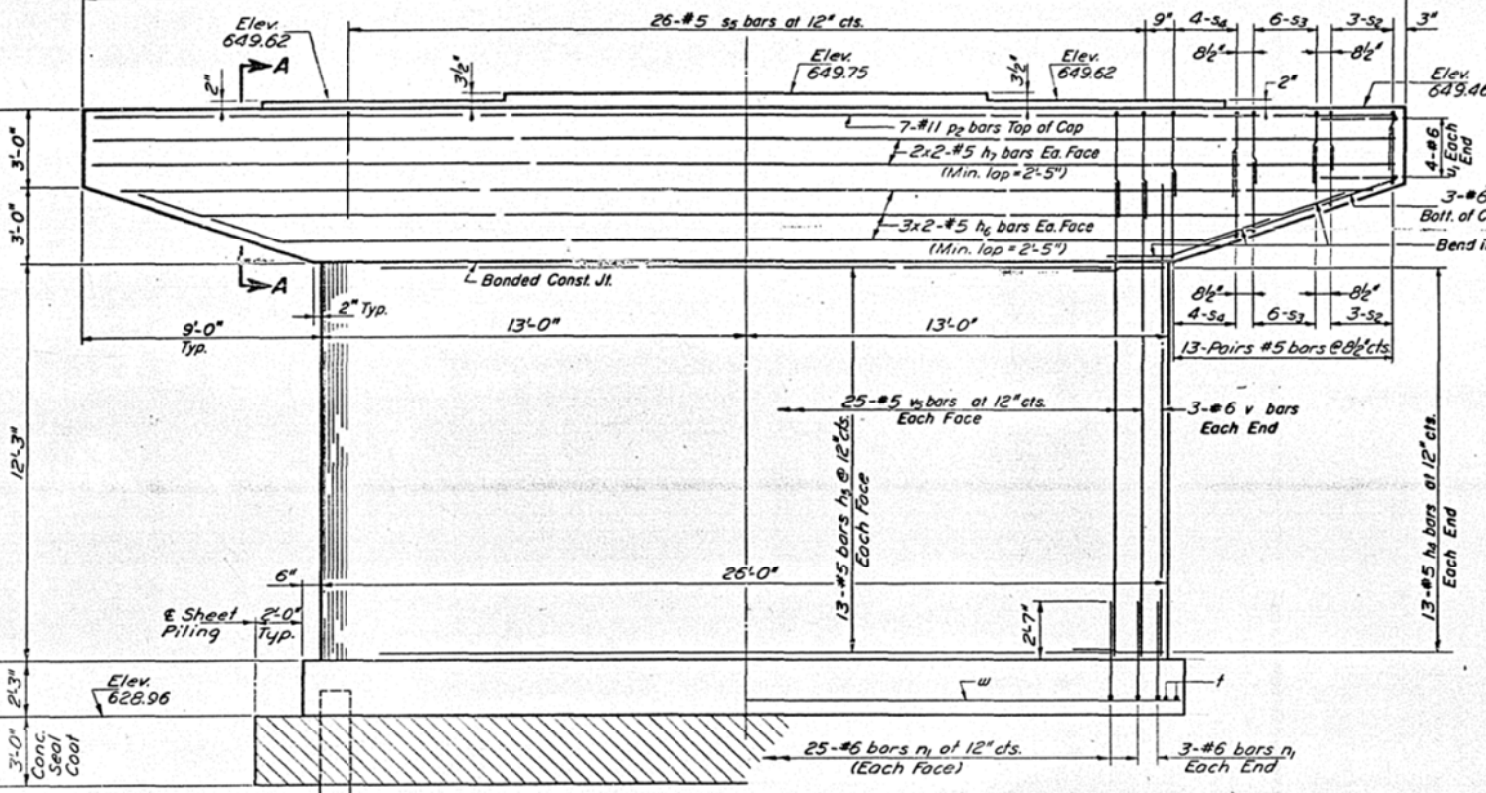
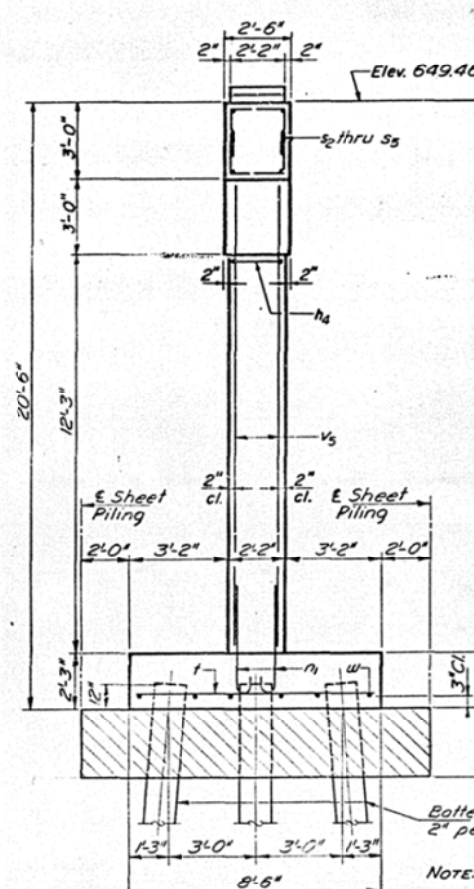
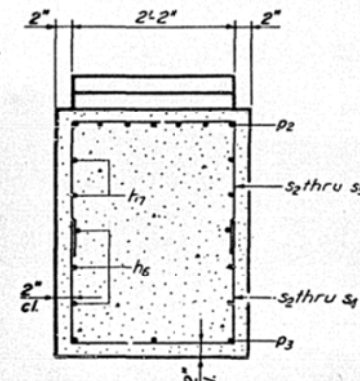
ROUTE NO.	SECTION	SUBJECT	TOTAL SHEETS	SHEET NO.	SHEET NO. 14 16 SHEETS
740	7BR	PIATT	34	25	

PILE DATA

Type: Concrete
Capacity: 45 Ton
Est. Length: 19'
No. Req'd.: 20 plus one Perm. test pile



NOTE:
All edges shall have standard 3/4" chamfers except as noted.
Four steps monolithically with cap.
Bars indicated thus 3x2-#5 etc. indicates 3 lines of bars with 2 lengths per line.



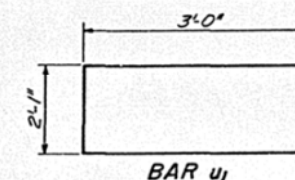
A & B DIMENSIONS

Bar	A	B
s2	2'-2"	2'-9"
s3	2'-2"	3'-5"
s4	2'-2"	3'-10"
s5	2'-2"	5'-3"

PIER 1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4	26	#5	7'-7"	U
h5	26	#5	23'-10"	—
h6	12	#5	22'-0"	—
h7	8	#5	23'-0"	—
n1	56	#6	5'-3"	U
p2	7	#11	43'-8"	—
p3	6	#6	11'-0"	—
s2	12	#5	7'-8"	□
s3	24	#5	9'-0"	□
s4	16	#5	9'-10"	□
s5	26	#5	12'-8"	□
u1	40	#6	8'-2"	—
u2	8	#6	8'-1"	□
v5	56	#6	15'-0"	—
w	6	#5	26'-8"	—
Class X Concrete		Cu. Yds.	66.2	
Reinforcement Bars		Lbs.	6330	
Concrete Piles		Lin. Ft.	380	
Test Piles Concrete		Each	1	
Seal Coat Concrete		Cu. Yds.	43	

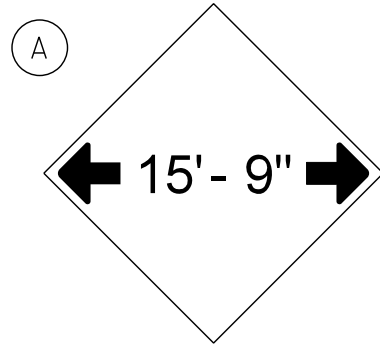
BARS s2, s3, s4, s5



DESIGNED <i>Stacy R. Meyer</i>	EXAMINED <i>Carl E. Lamm</i>
CHECKED <i>Daniel Miller</i>	PASSED
DRAWN <i>G.H. Ritchie</i>	APPROVED
CHECKED <i>D.L.B.</i>	DIRECTOR OF HIGHWAYS

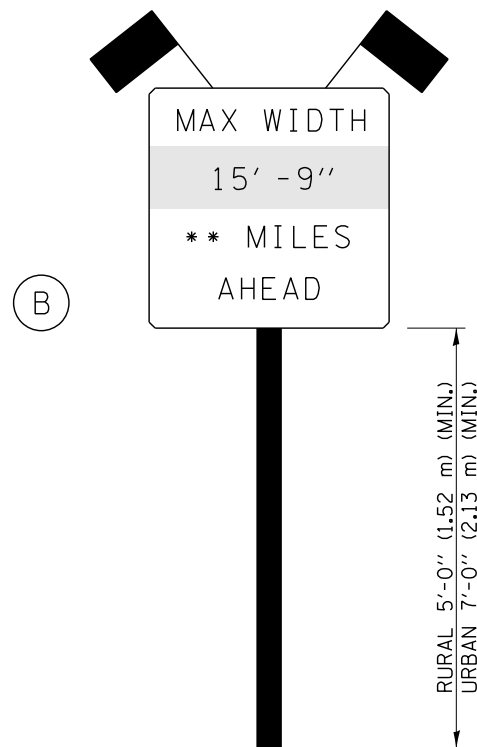
P-10; 1/4"=2.0 6-1-73

PIER 1
F.A.S. RT. 540 - SEC. 7BR
PIATT COUNTY
STA. 999+5238

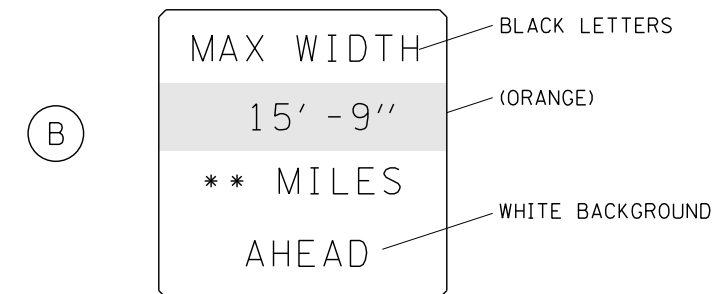


W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(0)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

** SEE DETAILS AND DESCRIPTIONS ON NEXT 2 SHEETS

STAGE WIDTHS:

STAGE 1 WIDTH = 17' - 3" actual; 15' - 9" posted; REQUIRED

STAGE 2 WIDTH = 17' - 3" actual; 15' - 9" posted; REQUIRED

GENERAL NOTES

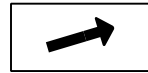
1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (0) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS.

FILE NAME =	USER NAME = showleres	DESIGNED -	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING S.N. 074-0072	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\idot\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN -	REVISED - -			741	(7BR)	PIATT	72	65
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED - -			CONTRACT NO. 70A75				
PLOT DATE = 12/2/2014		DATE -	REVISED - -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. 18 OF 21 SHEETS	STA.	TO STA.			

WIDTH RESTRICTION SIGNING FOR IL 105 WESTBOUND TRAFFIC

AT FAI 72 INTERCHANGE

A1 EAST OF IL 105 INTERCHANGE FOR IL 105 WB
ERECT OFF SHOULDER BY GREENBOARD JUST PRIOR TO RAMP
INCLUDE DIRECTION ARROW SIGN



21" X 15" (0)

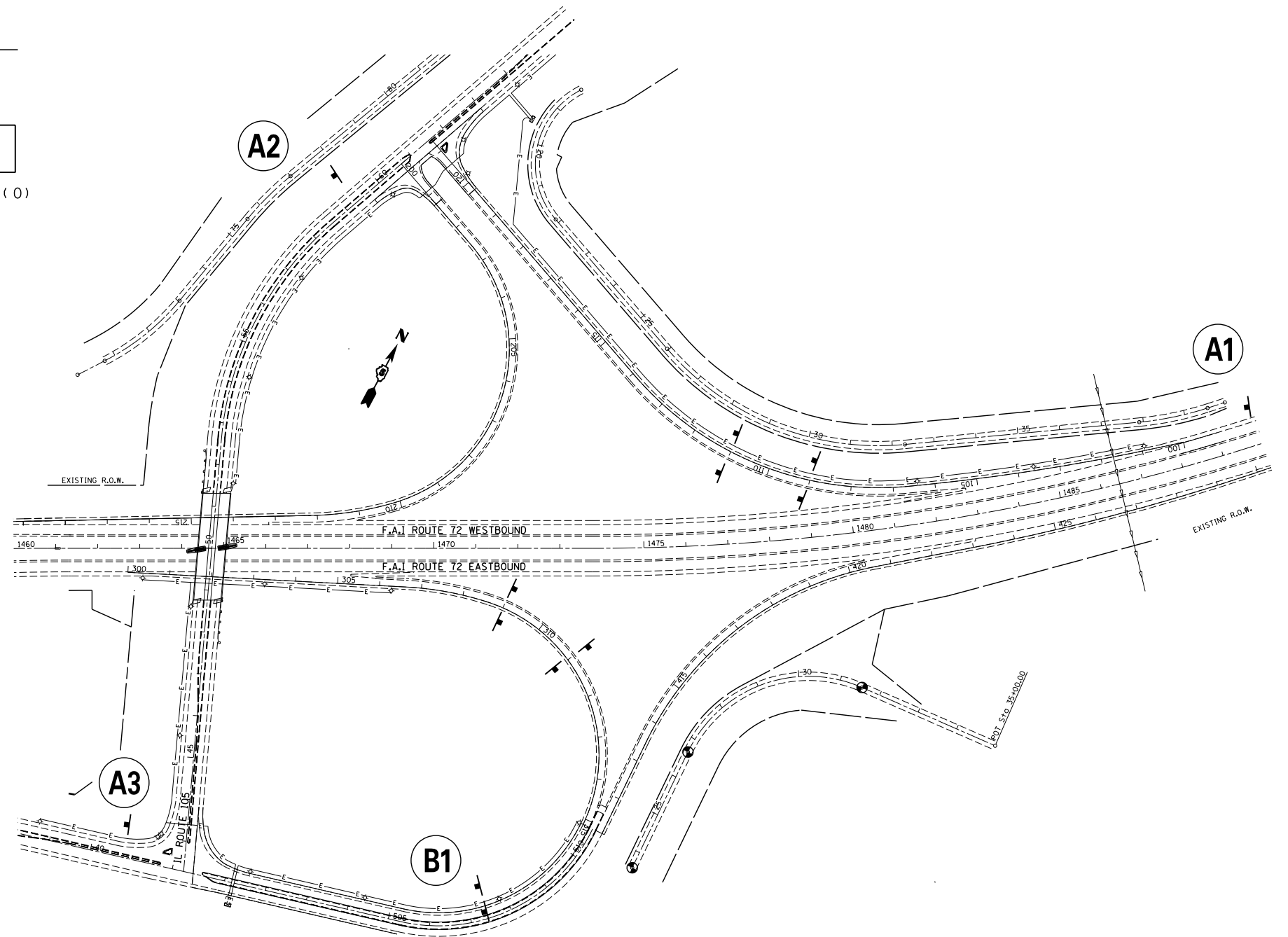
A2 AT IL 105 INTERCHANGE FOR IL 105 WB
ERECT 50' +/- SOUTH OF GREENBOARD
INCLUDE 6 MILES AHEAD

1.5 MILE

B1 EAST OF IL 105 INTERCHANGE FOR IL 105 WB
ERECT BY LIGHT POLE 37/104
DUAL DISPLAY; 1.5 MILES AHEAD

A3 AT IL 105 INTERCHANGE FOR IL 105 WB
ERECT 75 FROM INTERSECTION
INCLUDE 1 MILES AHEAD

1 MILE



FILE NAME =	USER NAME = showleres	DESIGNED -	REVISED - -
ct:\pw\work\p\id\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN -	REVISED - -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 12/2/2014	DATE -	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING
S.N. 074-0072**

SCALE: SHEET NO. 19 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	66
CONTRACT NO. 70A75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

WIDTH RESTRICTION SIGNING FOR IL 105 EASTBOUND TRAFFIC

INTERSECTION OF BRIDGE ST. & IL 105 (MARKET ST.) IN MONTICELLO

A4

AT BRIDGE ST. & IL 105 IN MONTICELLO
ERECT NORTH OF THE EAST IL 105 SIGN
INCLUDE 0.5 MILES AHEAD

0.5 MILE

B2

AT LIVINGSTON ST. & IL 105 IN MONTICELLO
ERECT NORTH OF LIVINGSTON ST.
0.5 MILES AHEAD



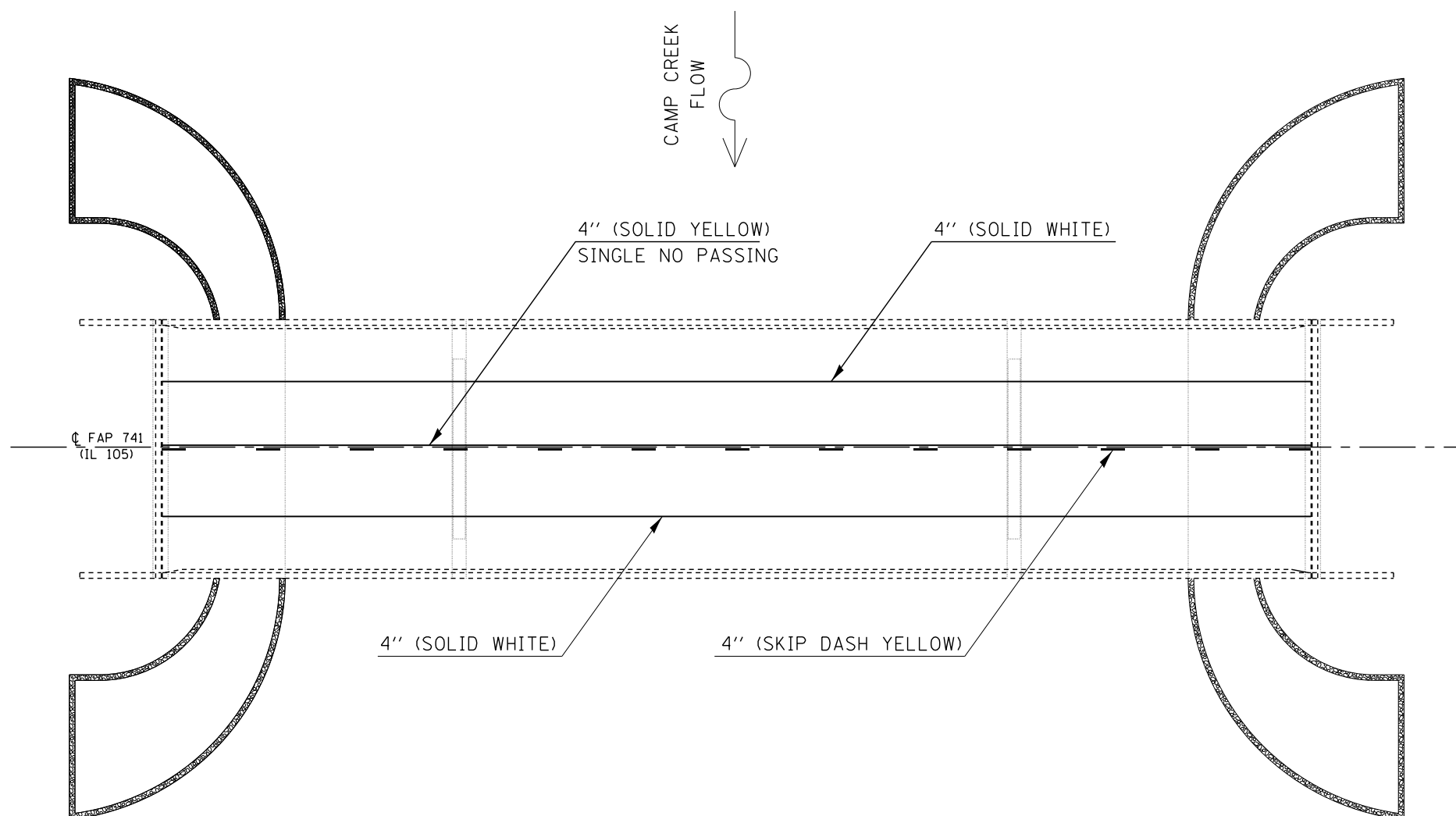
FILE NAME =	USER NAME = showleres	DESIGNED -	REVISED - /
ct:\pw\work\p\dot\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN -	REVISED - /
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - /
	PLOT DATE = 12/2/2014	DATE -	REVISED - /

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING
S.N. 074-0072

SCALE: SHEET NO. 20 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	67
CONTRACT NO. 70A75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PAY ITEM	UNIT	INTERSECTION
MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW)	FOOT	205.0
MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE)	FOOT	410.0
MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SKIP DASH YELLOW)	FOOT	52.0
GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	667.0

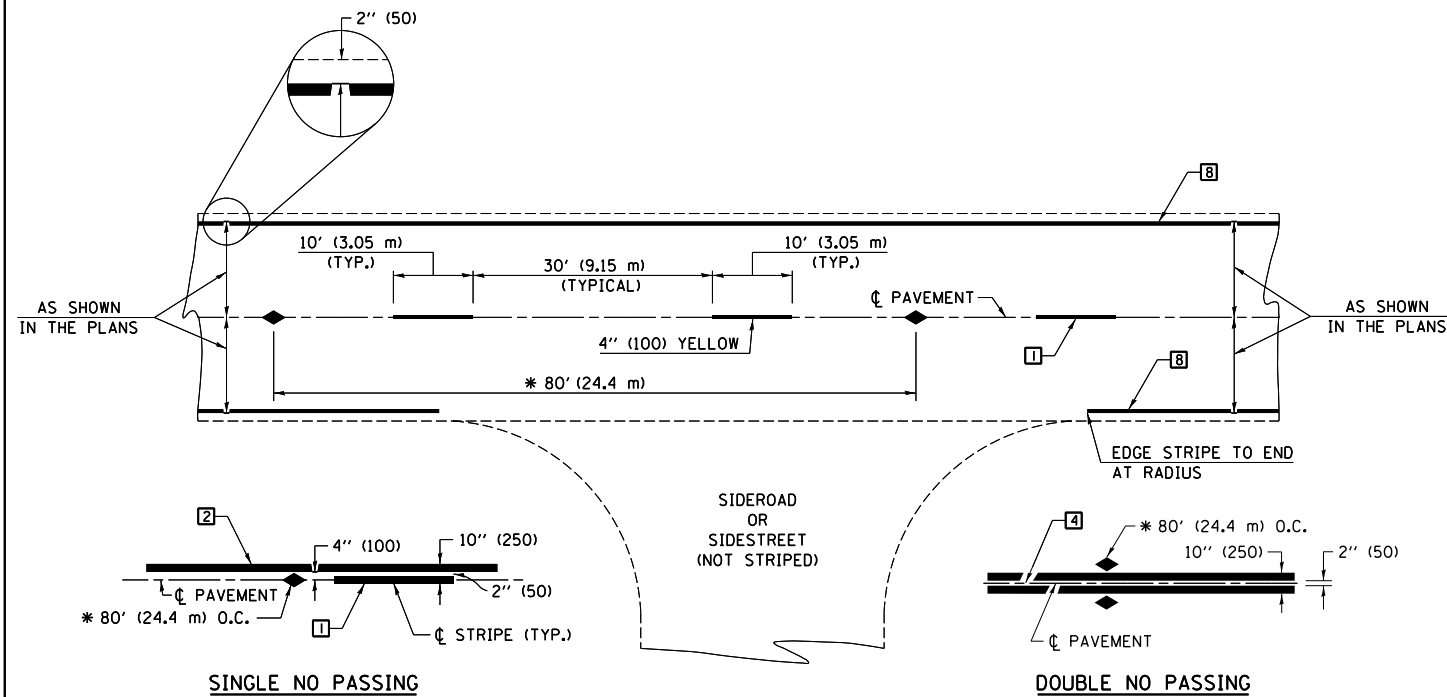
FILE NAME =	USER NAME = showleres	DESIGNED - ESS	REVISED -
ct:\pw\work\p\dot\showleres\d0412844\0570A75_sht-Repair Plans.dgn		DRAWN - ESS	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - -	REVISED -
	PLOT DATE = 12/2/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKINGS
S.N. 074-0072**

SCALE: SHEET 21 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	68
CONTRACT NO. 70A75			ILLINOIS FED. AID PROJECT	



* 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

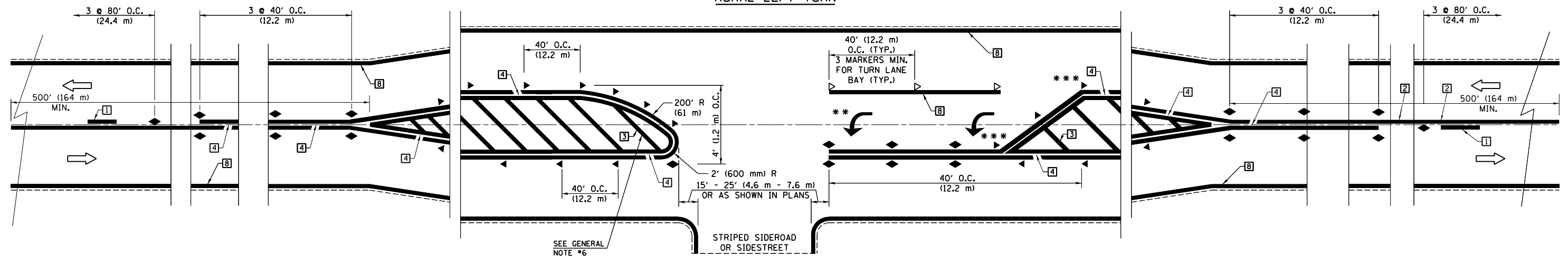
TYPICAL PAVEMENT MARKING LEGEND

- 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.

FILE NAME =	USER NAME = showleres	DESIGNED -	REVISED - 11/06
c:\pw_work\p\idot\showleres\0412844\050A75_sht-Design Details.dgn		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/14 - JLA
	PLOT DATE = 12/2/2014	DATE -	REVISED -

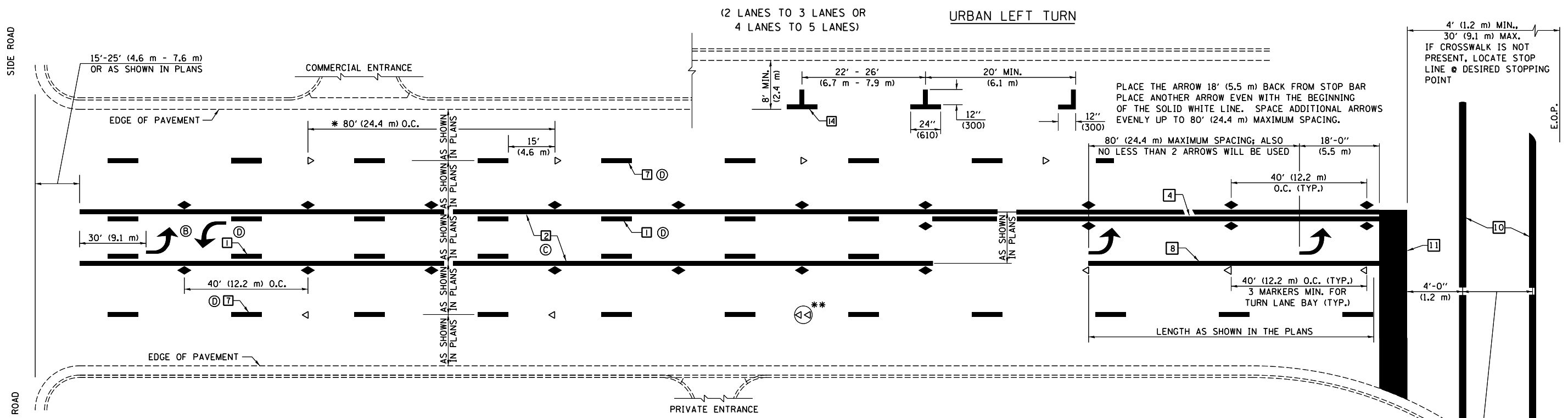
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)I	PIATT	72	69
CONTRACT NO. 70A75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

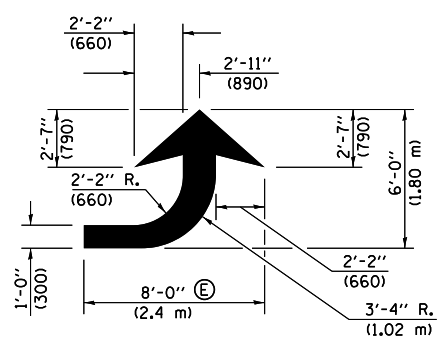


* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

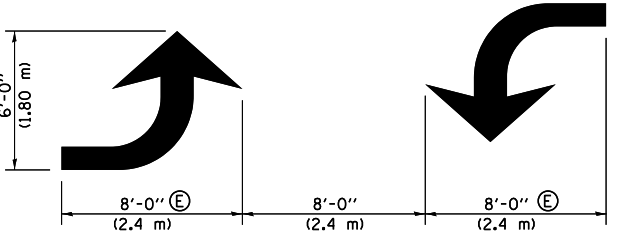
GENERAL NOTES:

- (B) 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.
- (C) 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.
- (D) 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.
- (E) USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



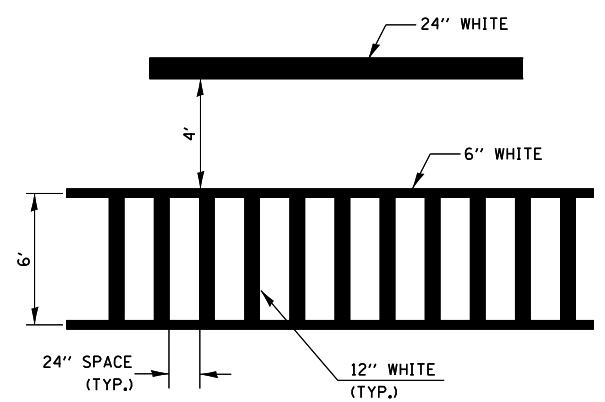
LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)

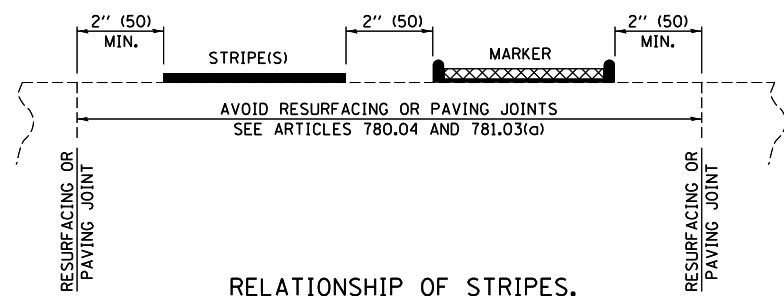


TYPICAL DOUBLE TURN ARROWS (WHITE)

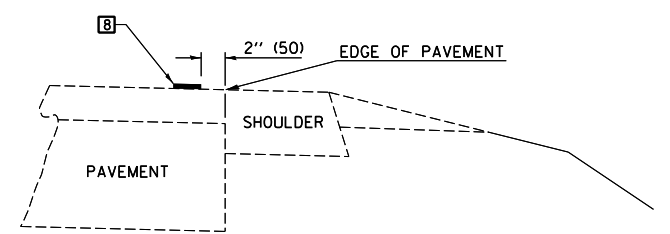
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



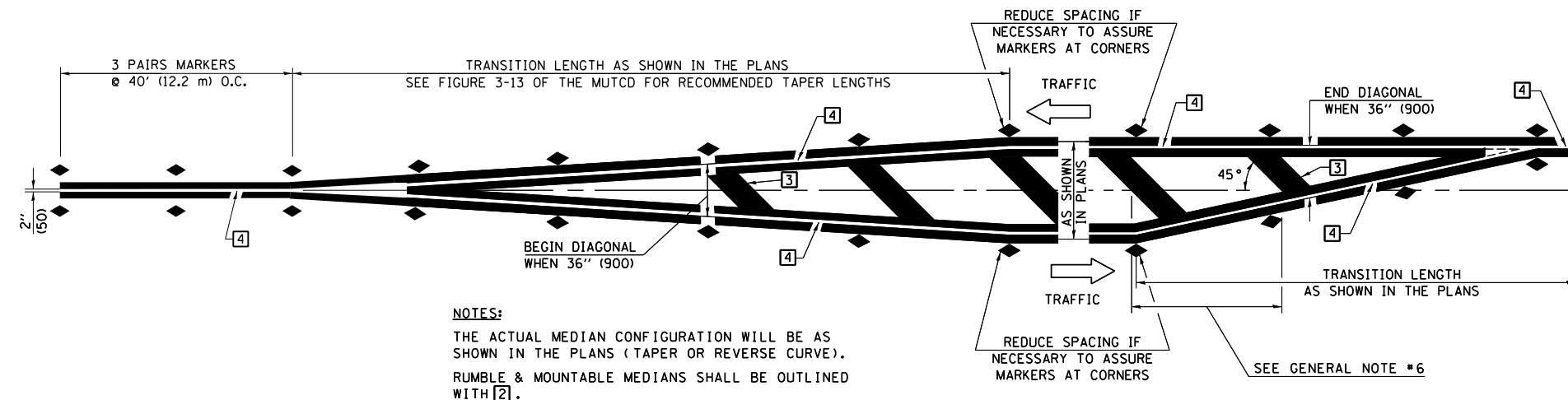
RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT (SAFETY SHOULDER OR PAVED SURFACE) SEE ARTICLE 780.04

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

DISTRICT 5 DETAIL NO. 7800AAA

FILE NAME =	USER NAME = showleres	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.
ci:\pw_work\p\dot\showleres\d0412844\0570A75_sht-Design_Details.dgn	0A75_sht-Design_Details.dgn	DRAWN -	REVISED - 09/2009 - KJT			741	(7BR)	PIATT	72	70
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED - 04/14 - JLA			CONTRACT NO. 70A75				
PLOT DATE = 12/2/2014		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

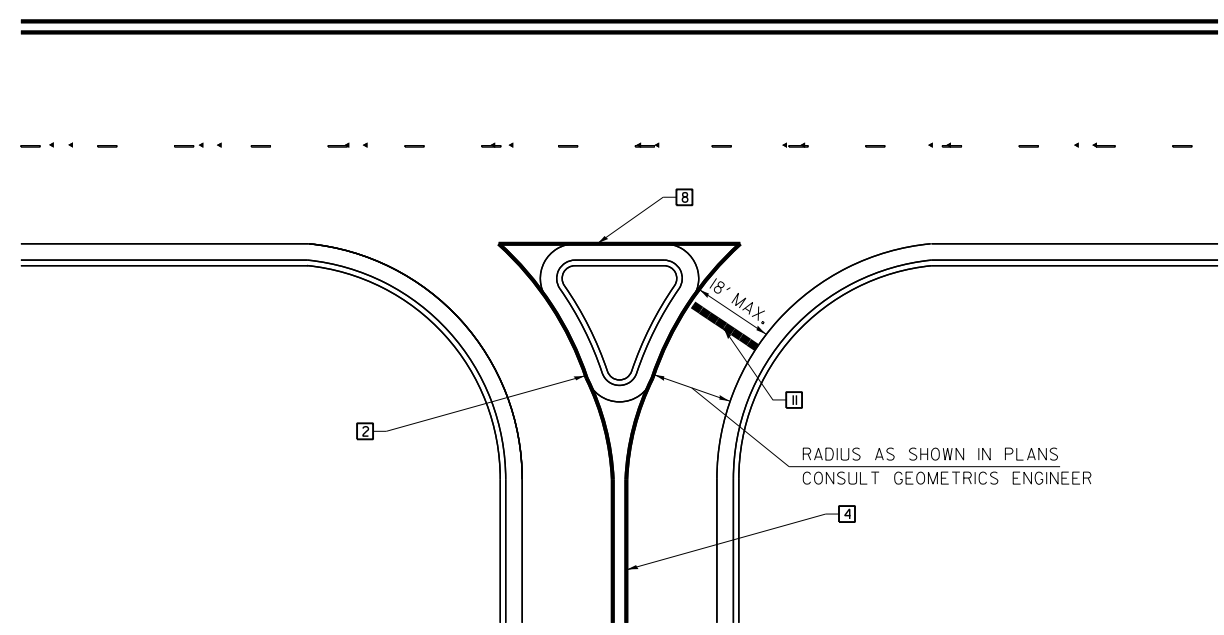


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

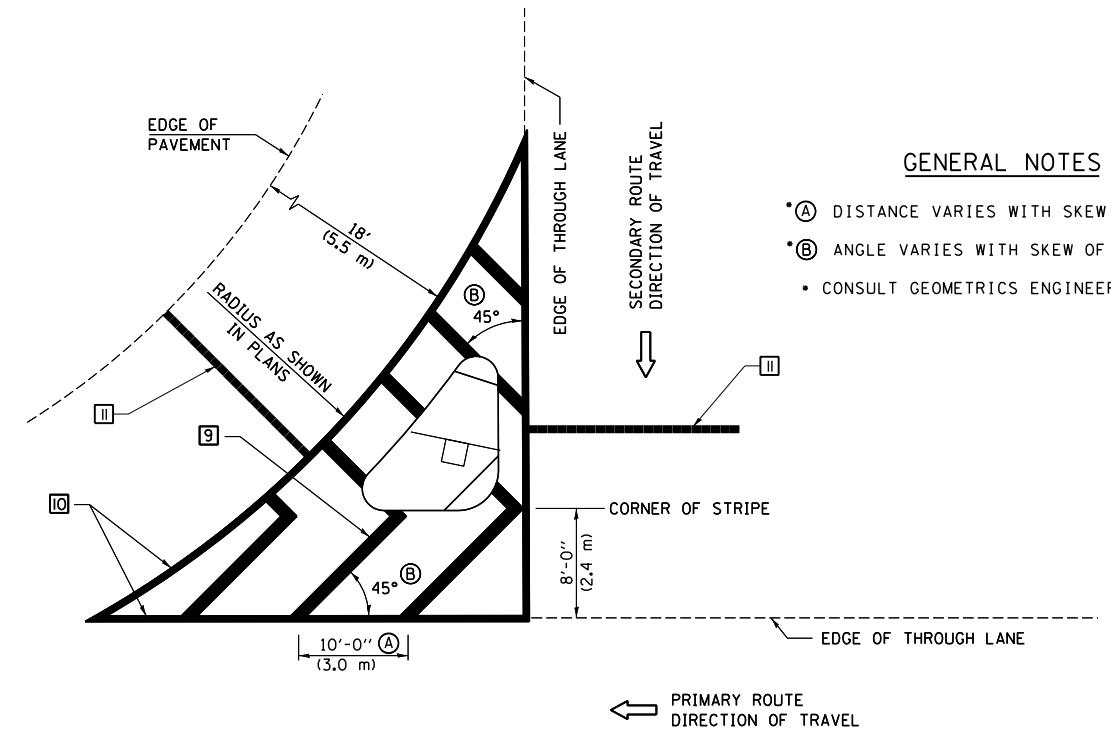
TYPICAL MEDIAN TRANSITIONS

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 = showleres	DESIGNED -	REVISED - 11/06
ci:\pw\work\p\idot\showleres\d0412844\0570A75_sht-Design Details.dgn		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/14 - JLA
	PLOT DATE = 12/2/2014	DATE -	REVISED -

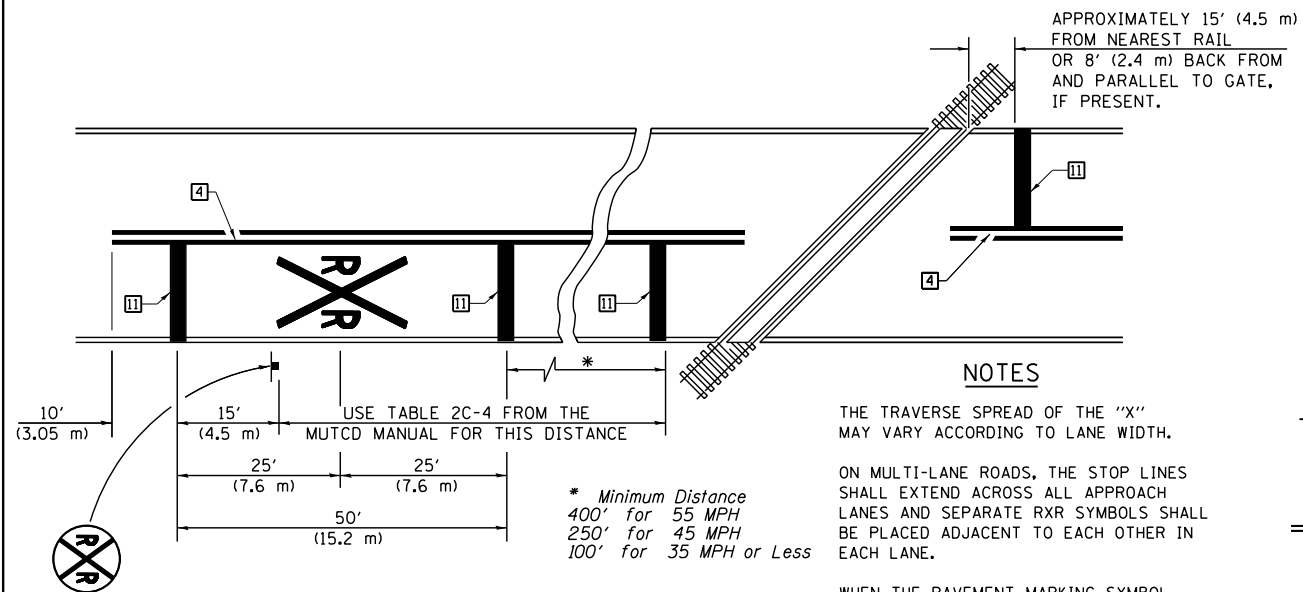
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**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.
741	(7BR)	PIATT	72	71
CONTRACT NO. 70A75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

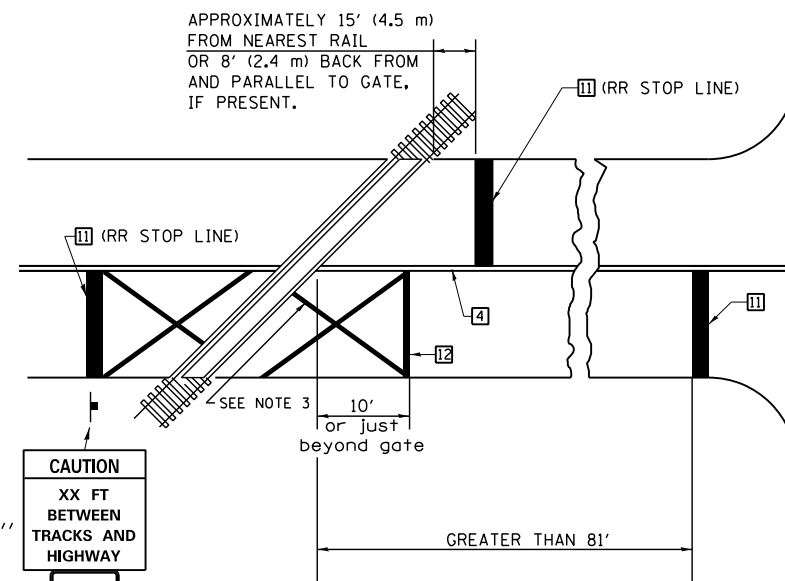
NOTES

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.

RAILROAD CROSSING WITH INTERCONNECT ONLY



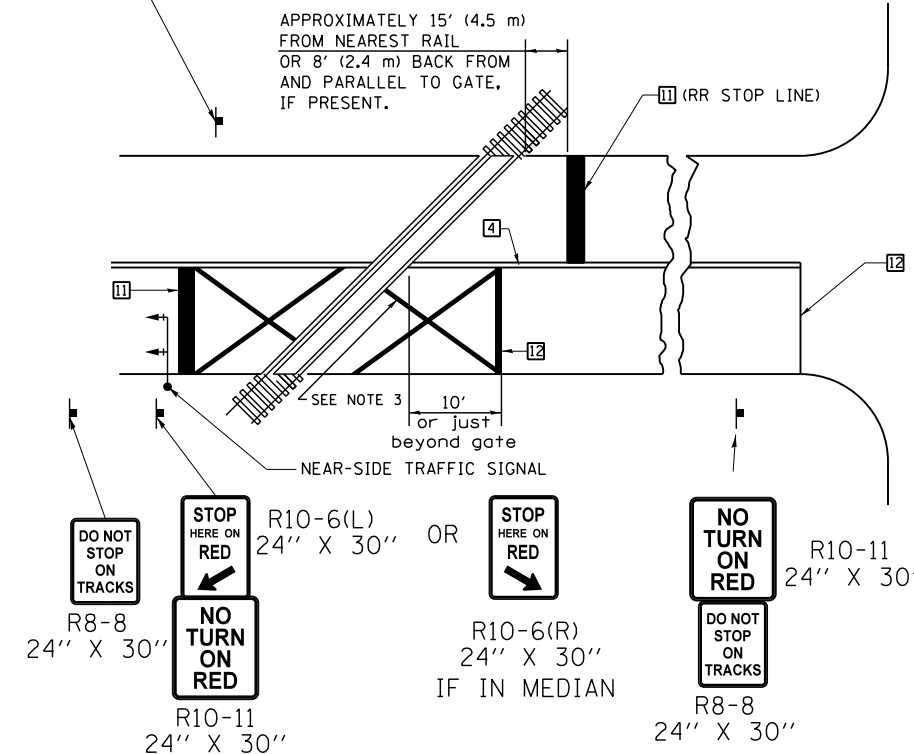
W10-1100
30" X 36"

CAUTION
XX FT
BETWEEN
TRACKS AND
HIGHWAY

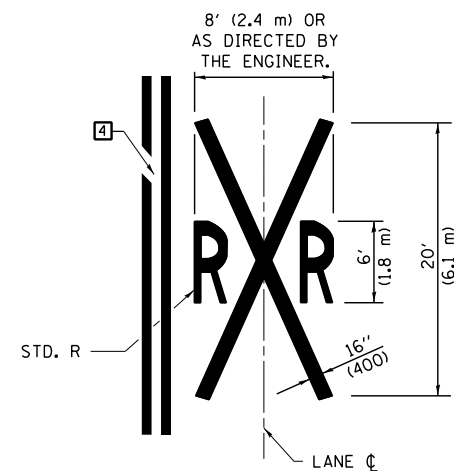
DO NOT
STOP
ON
TRACKS

R8-8
24" X 30"

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING



ALTERNATE SIGNS

STOP HERE ON RED (R10-6a(L)) 24" X 30"

STOP HERE ON RED (R10-6a(R)) 24" X 30"

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.
- 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
- XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

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

FILE NAME =	USER NAME = showleres	DESIGNED -	REVISED - 11/06
ca:\pw\work\p1dot\showleres\d0412844\0570475_sht-Design_Details.dgn		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/14 - JLA
	PLOT DATE = 12/2/2014	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. 7800AAAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(7BR)	PIATT	72	72
CONTRACT NO. 70A75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				