

02-28-14 LETTING ITEM 032

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

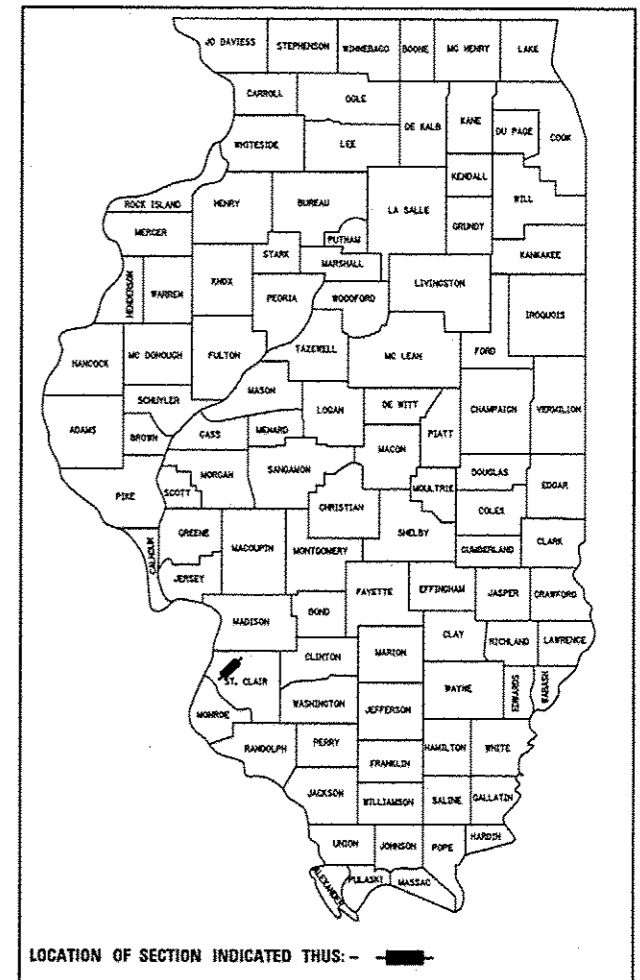
FAI ROUTE 255 (I-255)
SECTION 82-4HVB-I
PROJECT ACNHPP-0255 (401)
JOINT REPAIR, HMA OVERLAY, &
WATERPROOFING MEMBRANE SYSTEM
ST. CLAIR COUNTY

C-98-017-10

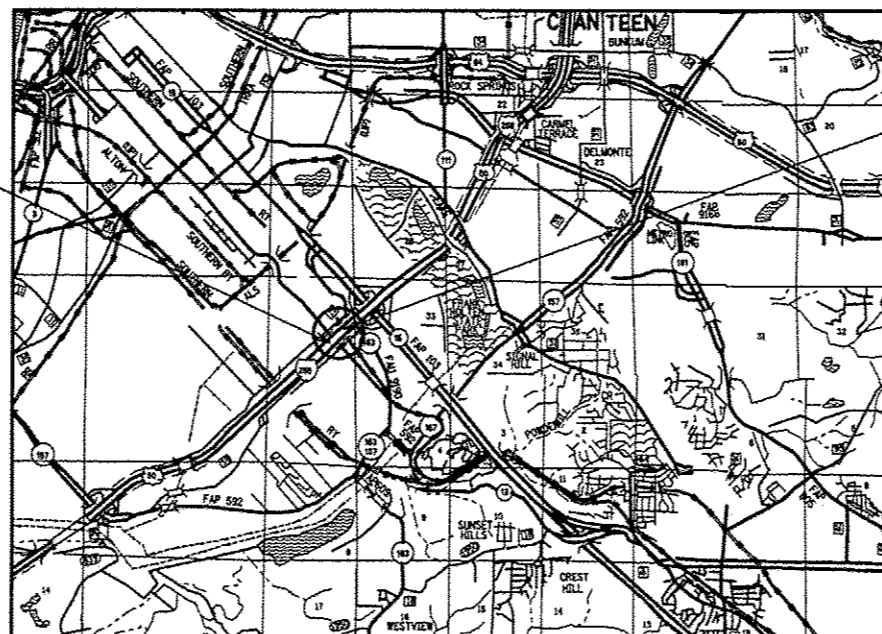
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46*	1
		ILLINOIS	CONTRACT NO. 76D51	

* 46 + 2 = 48 TOTAL SHEETS
D-98-063-09

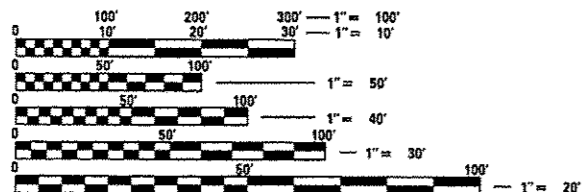
FOR INDEX OF SHEETS, SEE SHEET NO. 2



STATION EQUATION:
STA. 700 + 11.95 BACK =
STA. 748 + 00.00 AHEAD



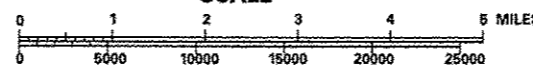
PROJECT LOCATION
STATION 750 + 74.23
ELEVEN SPAN STEEL PLATE GIRDER
CARRYING FAI 255 OVER ICG RR AND CHURCH ST
SN 082-0227; 1,229.5 FT BK TO BK ABUTMENT
LONGITUDE: 90.12323
LATITUDE: 38.57082



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

LOCATION MAP
SCALE



GROSS LENGTH = 1229.5 FT. = 0.233 MILE
NET LENGTH = 1229.5 FT. = 0.233 MILE

ADT (2014) 48600 SU = 2.0% MU = 2.0%
DIRECTIONAL DISTRIBUTION: 52.2% WB 47.8% EB

PROJECT ENGINEER: PATTI LEBEAU - 618-346-3179
PROJECT MANAGER: BILLIE OWEN - 618-346-3186

CONTRACT NO. 76D51

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 5 2013
John Z. Kim
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

Jan 24 2014
John D. Baranelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 24 2014
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS/HGHWW STAND./GEN. NOTES/MIX CHART/COMMITMENTS
- 3-5A SUMMARY OF QUANTITIES
- 6 TYPICAL SECTIONS
- 7 SCHEDULES
- 8-10 PLAN SHEETS
- 11-12 DETAILS
- 13-22 SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL
- * 23-38 STRUCTURE PLANS PLAN SHEETS
- 39-46 EXISTING STRUCTURE PLANS

* ADD SHEET 38A

GENERAL NOTES

1. THE STANDARDS AND REVISION NUMBERS STATED IN THE PLANS SHALL APPLY TO THIS CONTRACT.
2. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - *AMEREN ILLINOIS *AT&T ILLINOIS *COMMONFIELDS OF CAHOKIA PUBLIC WATER DISTRICT
 - *MCI COMMUNICATION *CITY OF CENTREVILLE *ZAYO FIBER SOLUTIONS

MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY AN *, NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING, FERTILIZING, AND MULCHING ANY AREAS DISTURBED BY CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE CONTRACT. THE SEEDING SHALL BE CLASS 1 AND THE APPLICATION OF THE SEEDING, FERTILIZER, AND MULCH SHALL BE TO THE SATISFACTION OF THE ENGINEER. FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THIS WORK.
4. ROAD CONSTRUCTION AHEAD AND "WORK ZONE SPEED LIMIT" SIGNS SHALL BE INSTALLED AS DIRECTED BY THE RESIDENT ENGINEER ON THE RAMPS LOCATED WITHIN THE LIMITS OF THE PROJECT. THIS WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE 48" FLUORESCENT ORANGE.
5. NO TRENCHES OR OPEN PITS WILL BE PERMITTED ADJACENT TO AN OPEN LANE OF TRAFFIC FOR MORE THAN A 24 HOUR PERIOD.
6. ALL TEMPORARY PAVEMENT MARKING SHALL BE PLACED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKING.
7. EXCAVATIONS ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE FLASHING OR STEADY BURNING LIGHTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS.
8. THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING CONSISTENT WITH TRAFFIC CONTROL. THIS WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER AND NO OTHER COMPENSATION SHALL BE ALLOWED.
9. TWO LANES OF TRAFFIC ON I-255 IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES.
10. EARTH EXCAVATION FOR THIS PROJECT IS MINIMAL AND SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
11. UTILITY INTERFERENCE'S ARE NOT ANTICIPATED ON THIS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS. NO ADDITIONAL COST SHALL BE ADDED TO THE CONTRACT RESULTING FROM UTILITY CONFLICTS.
12. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATION AND TOPOGRAPHY SHOWN IN THE PLANS WAS CREATED USING MICROFILM AND FIELD MEASUREMENTS. BOTH SHALL BE ASSUMED TO APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
13. THE THICKNESS OF HOT-MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
14. THE RESIDENT ENGINEERS SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR I.T.S. UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 803.04 OF THE STANDARD SPECIFICATIONS. IF LOCATING UNDERGROUND CABLE IS NOT INCLUDED AS PART OF THE PLANS, THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
15. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
16. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
17. ALL NEW TRAFFIC BARRIER TERMINALS SHALL BE CORED. NO DRILLING WILL BE PERMITTED INTO THE PARAPET WALLS, MEDIANS, PIERS, ETC. ACCORDING TO ARTICLE 631.07 OF THE STANDARD SPECIFICATIONS, THE COST WILL BE INCLUDED IN THE TYPE OF TRAFFIC BARRIER TERMINAL (EACH). NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK. ANY DAMAGE TO THE PARAPET WALL, MEDIANS, PIERS, ETC. WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS OWN EXPENSE.
18. THE CONTRACTOR SHALL PLACE TYPE C AGGREGATE IN THE EXCAVATED AREA BELOW THE PROPOSED HMA BASE COURSE. THE COST WILL BE INCLUDED IN THE HMA BASE COURSE - 10 QUANTITY.
19. BITUMINOUS MATERIAL (PRIME COAT) AND AGGREGATE (PRIME COAT) FOR THIS PROJECT IS MINIMAL AND SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90. APPLICATION WILL BE AT THE DIRECTION OF THE ENGINEER.
20. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO PRIMED AND FINAL SURFACE. ONLY REMOVAL FROM FINAL SURFACE WILL BE PAID FOR AS WORK ZONE PAVEMENT MARKING REMOVAL.

HIGHWAY STANDARDS

000001-06	642001-02	701501-06
001001-02	701400-07	701901-03
001006	701401-08	704001-07
630001-10	701402-09	780001-04
631026-05	701411-08	781001-03
631031-12	701428	
635006-03	701456-03	

COMMITMENTS

NONE

PERTINENT INFORMATION

THE RESIDENT ENGINEER SHALL COORDINATE ALL LANE CLOSURES WITH GRIZZLY STADIUM. PLEASE REFER TO THE PEAK HOUR LANE CLOSURE SCHEDULE AND THE PEAK HOUR RESTRICTION SPECIAL PROVISION.

MIXTURE REQUIREMENT CHART

MIXTURE USE	POLY SURFACE	BINDER/BASE COURSE
AC/PG	SBG PG 76-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90
MIX COMPOSITION		
(GRADATION MIXTURE)	IL 9.5	IL 19.0 F.G.
FRICTION AGG	MIXTURE "E"	MIXTURE "B"
MIXTURE USE	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	**2.0% @ Ndes=30	**2.0% @ Ndes=30
MIX COMPOSITION	NMAS 3/4"	NMAS 1/2"
(GRADATION MIXTURE)		
FRICTION AGG		

**TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LBS/SQ YD/IN (59.8 Kg/Sq M/25 mm THICKNESS).

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, GENERAL NOTES, STANDARDS, ETC.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -			255	82-4HVB-1	ST. CLAIR	46	2
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -			CONTRACT NO. 76D51				
	PLOT DATE = *DATE*	DATE -	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

URBAN

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	TOTAL QUANTITIES	
				10% STATE	90% FEDERAL
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	5727	5727	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	330	330	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	711	711	
40603092	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N90	TON	423	423	
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	1655	1655	
44004250	PAVED SHOULDER REMOVAL	SQ YD	5727	5727	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	107	107	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	268	268	
50102400	CONCRETE REMOVAL	CU YD	95.1	95.1	
50157300	PROTECTIVE SHIELD	SQ YD	161	161	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	90.1	90.1	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	6730	6730	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8450	8450	
50800515	BAR SPLICERS	EACH	92	92	
50800530	MECHANICAL SPLICERS	EACH	564	564	

FILE NAME *	USER NAME * #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -		255	82-4HV8-1	ST. CLAIR	46	3			
	PLOT SCALE * #SCALE*	CHECKED -	REVISED -		SCALE:	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.	CONTRACT NO. 76051			
	PLOT DATE * #DATE*	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

URBAN

ILLINOIS DEPARTMENT OF TRANSPORTATION			TOTAL QUANTITIES		
SUMMARY OF QUANTITIES				SN 082-0227	
CODE NO	ITEM	UNIT	0014	10% STATE	90% FEDERAL
52000110	PREFORMED JOINT STRIP SEAL	FOOT	128	128	
52000212	FINGER PLATE EXPANSION JOINT, 4"	FOOT	116	116	
52000220	FINGER PLATE EXPANSION JOINT, 6"	FOOT	116	116	
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	366	366	
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	15644	15644	
60260100	INLETS TO BE ADJUSTED	EACH	8	8	
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	
63200310	GUARDRAIL REMOVAL	FOOT	125.75	125.75	
* 63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	2987.5	2987.5	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	4933	4933	
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	

* SPECIALTY ITEM

URBAN

ILLINOIS DEPARTMENT OF TRANSPORTATION			TOTAL QUANTITIES		
CODE NO	ITEM	UNIT		10% STATE	90% FEDERAL
67100100	MOBILIZATION	L SUM	1	1	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	4	
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1	
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	10	10	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3536	3536	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	17056	17056	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1179	1179	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2025.5	2025.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1837.5	1837.5	
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	17056	17056	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	273	273	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	139	139	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	30	30	

* SPECIALTY ITEM

URBAN

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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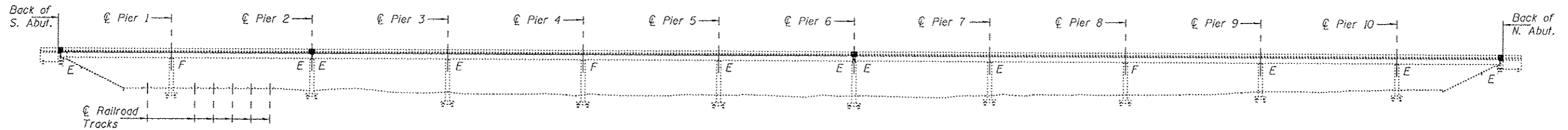
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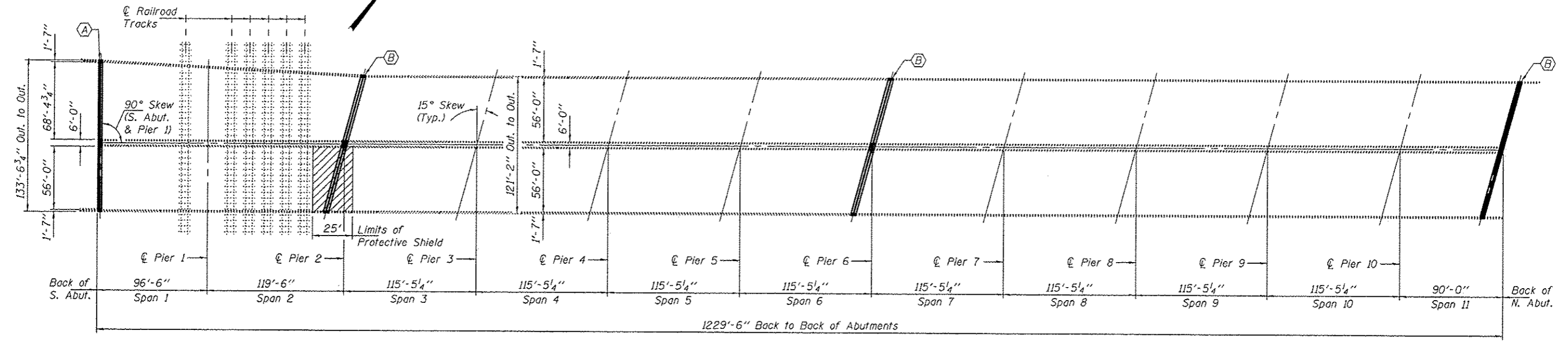
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	
			10% STATE	90% FEDERAL
78200530	BARRIER WALL MARKERS, TYPE C	EACH	30	30
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1
78300100	PAVEMENT MARKING REMOVAL	SQ FT	3615	3615
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	404	404
X0323583	SPEED INDICATOR SIGN	CAL DA	302	302
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	676	676
X4420553	CLASS A PATCHES, TYPE II, 10 INCH (SPECIAL)	SQ YD	84	84
X4420557	CLASS A PATCHES, TYPE III, 10 INCH (SPECIAL)	SQ YD	27	27
X6050310	FILLING INLETS, SPECIAL	EACH	8	8
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	4	4
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	300	300
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
X5200212	FINGER PLATE EXPANSION JOINT, 4 1/2"	FOOT	116	116
Z0076600	TRAINEES	HOUR	1000	1000
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000

SN 082-0227
0014

∅ 0042



ELEVATION



PLAN

- (A) - Remove existing Neoprene Exp. Jt. and install Preformed Joint Strip Seal
- (B) - Remove existing Neoprene Exp. Jt. and install Finger Plate Expansion Joint

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

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 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.

Finger Plate Expansion Joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

Tapered shims shall be added under the stools, as required by the Engineer, to make a smooth finger joint. Cost shall be included with Finger Plate Expansion Joint.

The finger plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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".

Joint plates and attached bars shall be shop painted with the inorganic zinc rich primer. No field paint required.

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.

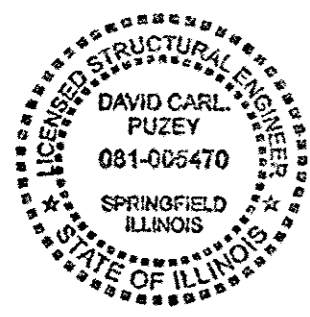
The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

The Contractor shall take extreme care not to damage the existing precast concrete planks during concrete removal operations to perform Deck Slab Repair (Partial Depth). Any planks damaged during the Deck Slab Repair operations shall be replaced in its entirety at the Contractor's expense with full depth section.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	95.1
Concrete Superstructures	Cu. Yd.	90.1
Reinforcement Bars, Epoxy Coated	Pound	8450
Bar Splicers	Each	92
Mechanical Splicers	Each	564
Preformed Joint Strip Seal	Foot	128
Finger Plate Expansion Joint, 4"	Foot	116
Finger Plate Expansion Joint, 4 1/2"	Foot	116
Finger Plate Expansion Joint, 6"	Foot	116
Fabric Reinforced Elastomeric Trough	Foot	366
Furnishing & Erecting Structural Steel	Pound	6730
Waterproofing Membrane System	Sq. Yd.	15,643
Polymerized Hot-Mix Asphalt Surface Course, Mix "E", N90	Tons	1308
Deck Slab Repair (Partial Depth)	Sq. Yd.	300
Protective Shield	Sq. Yd.	161

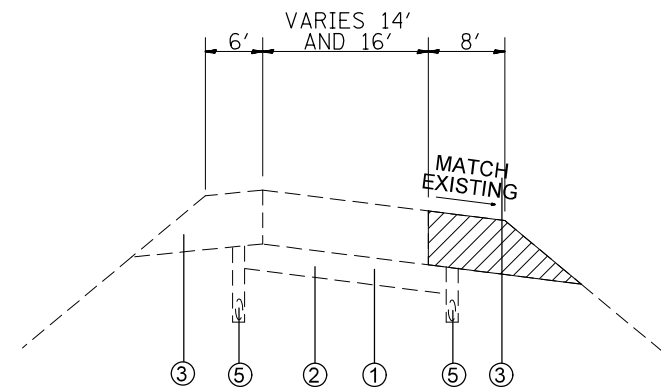


DESIGNED: Adrian T. Holloway	EXAMINED: [Signature]	DATE: JANUARY 22, 2014
CHECKED: [Signature]	PASSED: [Signature]	REVISED:
DRAWN: [Signature]	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED:
CHECKED: [Signature]		

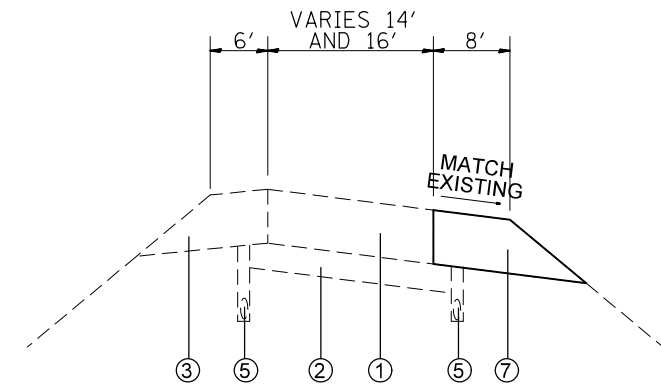
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
FAI 255 OVER ICG RAILROAD
SN 082-0227
SHEET NO. 1 OF 17 SHEETS

F.A.I. RTE. 255	SECTION 82-4HV-1	COUNTY ST. CLAIR	TOTAL SHEETS 46	SHEET NO. 23
CONTRACT NO. 76D51			ILLINOIS FED. AID PROJECT	



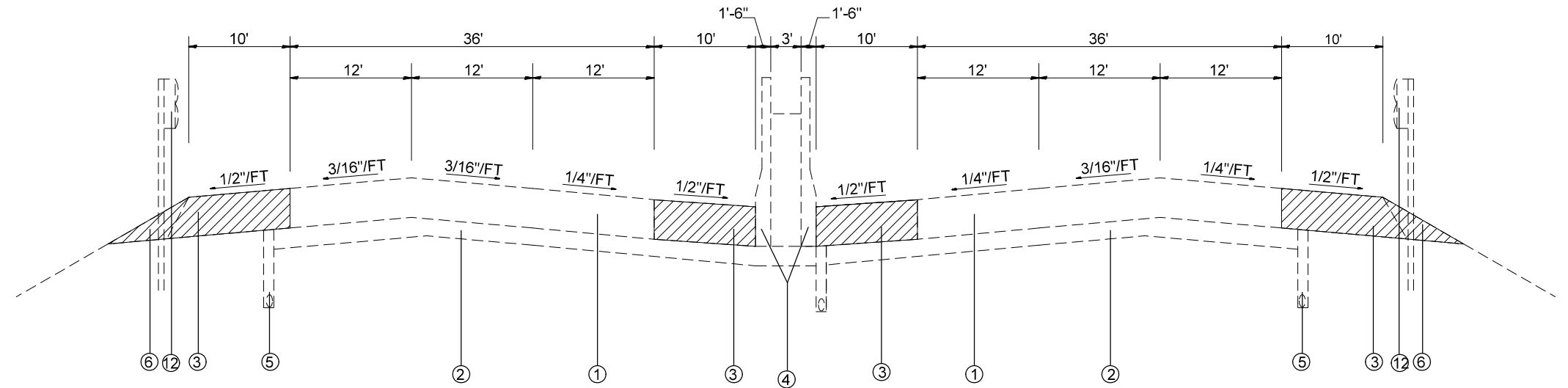
EXISTING RAMP SECTION



PROPOSED RAMP SECTION

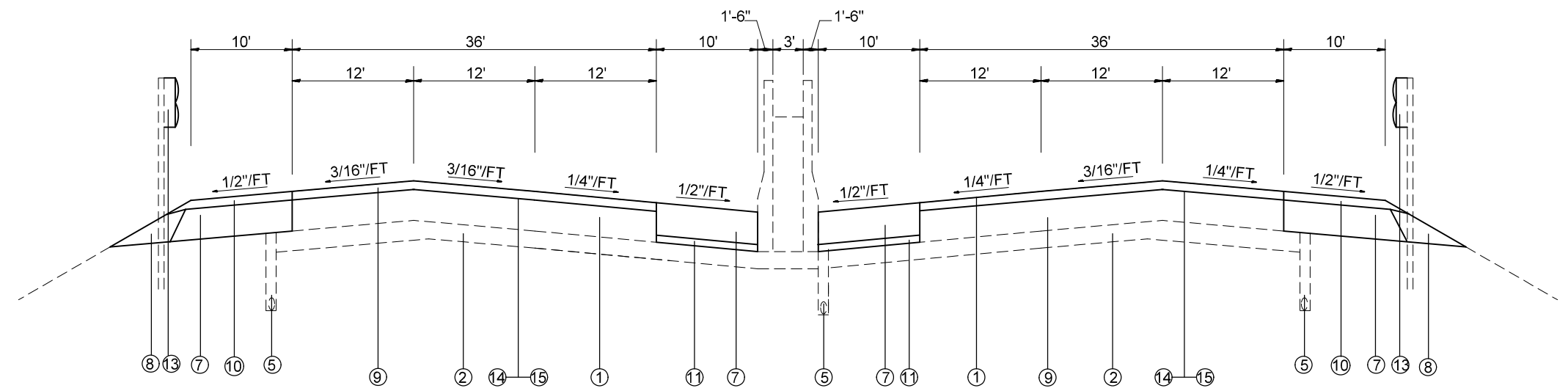
LEGEND

- ① EXISTING CRPCC PAVEMENT - 10"
- ② EXISTING STABILIZED SUBBASE - 4"
- ③ EXISTING HMA SHOULDERS - 10"
- ④ EXISTING CONCRETE MEDIAN BARRIER
- ⑤ EXISTING UNDERDRAINS - 4"
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑧ PROPOSED AGGREGATE PRIME COAT
- ⑨ PROPOSED HMA BASE COURSE - 10"
- ⑩ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑪ PROPOSED POLYMERIZED HMA SURFACE COURSE MIX "E", N90 - 2"
- ⑫ PROPOSED HOT MIX ASPHALT SHOULDERS
- ⑬ PROPOSED AGGREGATE TYPE C
- ⑭ EXISTING SPBGR
- ⑮ PROPOSED REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL



EXISTING TYPICAL

STA. 690+54.00 TO STA. 700+11.95
 STA. 748+00.08 TO STA. 748+66.00
 STA. 761+43.44 TO STA. 767+27.00



STATIONING

STA. 690+54.00 TO STA. 700+11.95
 STA. 748+00.08 TO STA. 748+66.00
 STA. 761+43.44 TO STA. 767+27.00
 SEE PLAN VIEW FOR DETAILED LOCATIONS OF WIDENING

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = *SCALE*	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	255	82-4HVB-I	ST. CLAIR	46	6
	PLOT DATE = *DATE*	CHECKED -	REVISED -					CONTRACT NO. 76D51					
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

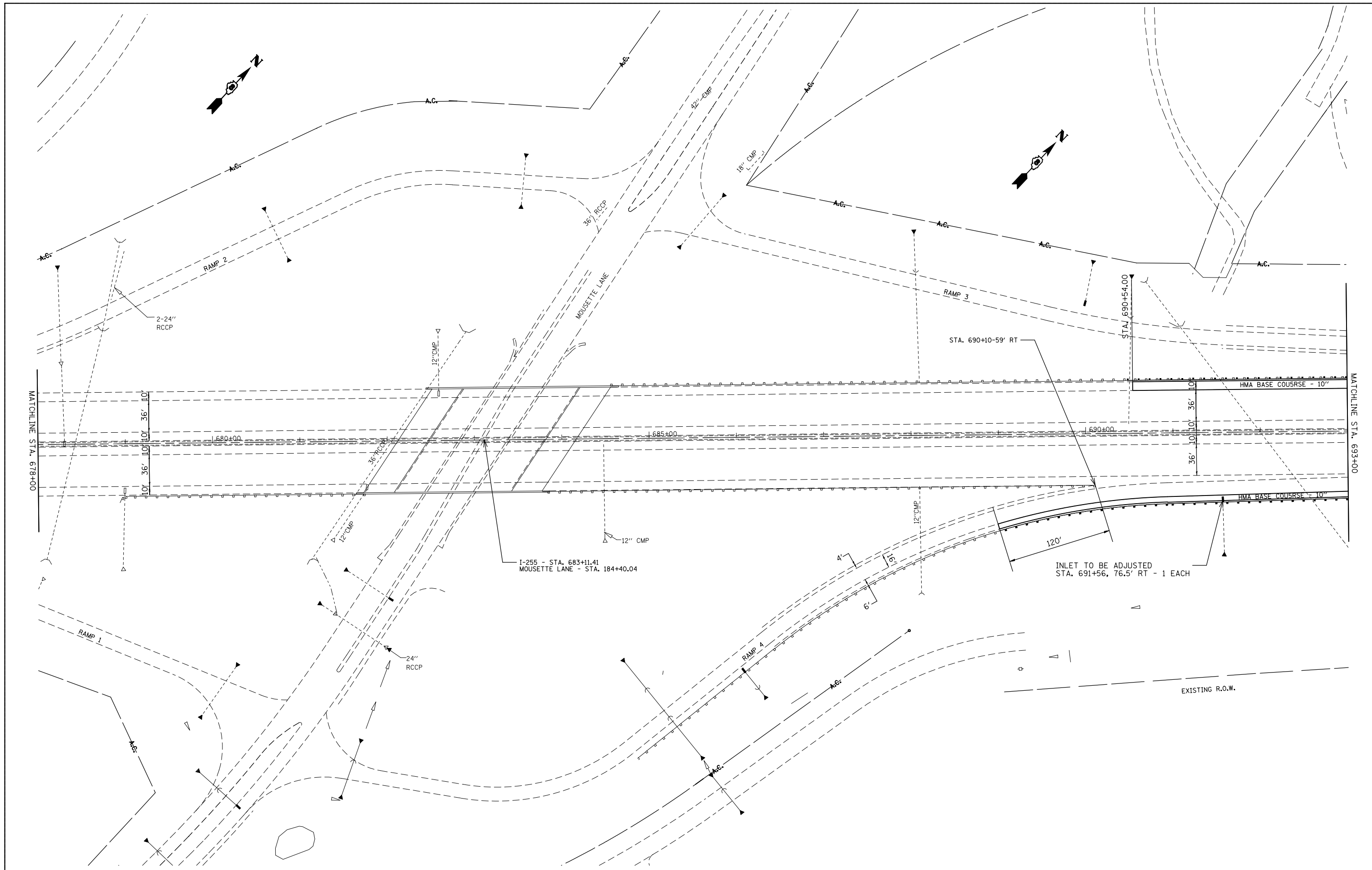
PAVING SCHEDULE

STATION	NB/SB	HMA BASE COURSE-10" SQ YDS	POLYMERIZED HMA SURFACE COURSE MIX "E" N90 TONS	HMA BINDER COURSE IL-19.0 FG. N90 TONS	PCC SURFACE REMOVAL-BUTT JOINT SQ YDS	HMA SURFACE REMOVAL-BUTT JOINT SQ YDS	PCC SURF REMOVAL VAR. DEPTH SQ YDS	PAVED SHOULDER REMOVAL SQ YDS	HMA SHOULDERS TONS	SHOULDER RUMBLE STRIPS, 16 INCH FOOT	CLASS A PATCH TYPE II, 10" (SPECIAL) SQ YDS	CLASS A PATCH TYPE III, 10" (SPECIAL) SQ YDS	AGGREGATE WEDGE SHOULDER, TY B TONS	COMMENTS	
688+00.00	TO	693+00.00	NB	271.7	0.0	0.0	0.0	271.7	0.0	0.0	0.0	0.0	11.5	ENTRANCE RAMP FROM MOUSETTE LANE	
693+00.00	TO	699+38.00	NB	1032.0	0.0	0.0	0.0	1032.0	0.0	1038.0	0.0	0.0	33.0	INSIDE AND OUTSIDE SHOULDER	
699+38.00	TO	699+78.00	NB	71.1	18.0	0.0	160.0	71.1	8.0	80.0	0.0	0.0	1.0	BUTT JOINT	
699+78.00	TO	700+08.00	NB	53.3	13.5	0.0	0.0	53.3	6.0	60.0	24.0	0.0	1.0	APPROACH SLAB (WFBJ*)	
700+08.00	TO	748+96.00	NB	124.4	45.0	89.5	0.0	160.0	124.4	19.9	200.0	0.0	3.0	APPR. PAVT SETTLEMENT CORRECTION	
748+96.00	TO	761+17.20	NB											SEE BRIDGE PLANS	
761+17.20	TO	762+24.70	NB	166.9	48.5	96.5	0.0	0.0	166.9	26.9	215.0	0.0	3.0	APPR. PAVT SETTLEMENT CORRECTION	
762+24.70	TO	762+54.70	NB	66.7	13.5	0.0	0.0	66.7	7.5	60.0	24.0	0.0	1.0	APPROACH SLAB (WFBJ*)	
762+54.70	TO	762+94.80	NB	88.9	18.0	0.0	160.0	88.9	10.0	80.0	0.0	0.0	1.0	BUTT JOINT	
762+94.80	TO	765+30.00	NB	522.7	0.0	0.0	0.0	522.7	0.0	470.0	0.0	0.0	7.0	INSIDE AND OUTSIDE SHOULDER	
765+30.00	TO	767+16.00	NB	206.7				206.7		186.0			5.0	OUTSIDE SHOULDER	
690+54.00	TO	693+00.00	SB	273.3	0.0	0.0	0.0	273.3	0.0	246.0	0.0	0.0	7.0	OUTSIDE SHOULDER	
693+00.00	TO	699+38.00	SB	1382.3	0.0	0.0	0.0	1382.3	0.0	942.0	0.0	0.0	11.5	INSIDE AND OUTSIDE SHOULDER	
699+38.00	TO	699+78.00	SB	81.0	26.0	0.0	231.1	81.0	12.6	40.0	0.0	0.0	1.0	BUTT JOINT	
699+78.00	TO	700+08.00	SB	57.5	19.5	0.0	0.0	57.5	8.7	30.0	11.5	26.7	1.0	APPROACH SLAB (WFBJ*)	
700+08.00	TO	748+96.00	SB	77.8	65.0	140.0	0.0	160.0	77.8	19.9	100.0	0.0	3.0	APPR. PAVT SETTLEMENT CORRECTION	
748+96.00	TO	761+33.80	SB											SEE BRIDGE PLANS	
761+33.80	TO	762+41.30	SB	171.8	48.5	97.0	0.0	0.0	171.8	27.0	215.0	0.0	3.0	APPR. PAVT SETTLEMENT CORRECTION	
762+41.30	TO	762+71.30	SB	66.7	13.5	0.0	0.0	66.7	7.5	60.0	24.0	0.0	1.0	APPROACH SLAB (WFBJ*)	
762+71.30	TO	763+11.50	SB	88.9	18.0	0.0	160.0	88.9	10.0	80.0	0.0	0.0	1.0	BUTT JOINT	
763+11.50	TO	767+27.00	SB	923.3	0.0	0.0	0.0	923.3	103.4	831.0	0.0	0.0	12.0	INSIDE AND OUTSIDE SHOULDER	
SUBTOTAL				5726.9	347.0	423.0	711.1	329.9	676.1	5726.9	267.2	4933.0	83.5	26.7	107.0
ROUNDED TOTAL				5727.0	347.0	423.0	711.0	330.0	676.0	5727.0	268.0	4933.0	84.0	27.0	107.0

*WFBJ - WIDE FLANGE BEAM JOINT

PAVEMENT MARKING SCHEDULE

STATION	THERMOPLASTIC PAVEMENT MARKING, LINE - 4" (FOOT)			TEMPORARY PAVEMENT MARKING LINE - 4" (FOOT)			SHORT TERM PAVEMENT MARKING (FOOT)	RAISED RELECTIVE PAVEMENT MARKERS (EACH)	RAISED RELECTIVE PAVEMENT MARKERS (BRIDGE) (EACH)	RAISED RELECTIVE PAVT. MRK. REMOVAL (EACH)	PAVEMENT MARKING REMOVAL SQ YDS	WORK ZONE PAVEMENT MRK. REM. (SQ FT)	COMMENT	
	SOLID WHITE	SKIP-DASH WHITE	SOLID YELLOW	SOLID WHITE	SKIP-DASH WHITE	SOLID YELLOW								
680+32.00	TO	690+32.00	140	250	0	140	250	0	115.0	25	130	38.3	NB LANE (STAGE 1)	
690+32.00	TO	693+00.00	535	67	0	535	67	0	30.8	7	201	10.3	NB LANE (STAGE 1)	
693+00.00	TO	695+32.00	464	58	0	464	58	0	26.7	6	174	8.9	NB LANE (STAGE 1)	
695+32.00	TO	698+58.00	326	82	0	326	82	0	37.5	8	136	12.5	NB LANE (STAGE 1)	
698+58.00	TO	700+11.95	154	38	0	154	38	0	40.0	4	64	13.3	NB LANE (STAGE 1)	
748+00.00	TO	748+96.00	96	24	0	96	24	0	25.0	2	40	8.3	NB LANE (STAGE 1)	
748+96.00	TO	755+00.00	604	151	0	604	151	0	157.0	15	252	52.3	NB LANE (STAGE 1)	
755+00.00	TO	761+16.00	616	154	0	616	154	0	249.5	16	257	83.2	NB LANE (STAGE 1)	
761+16.00	TO	763+20.50	205	51	0	205	51	0	82.8	5	85	27.6	NB LANE (STAGE 1)	
763+20.50	TO	766+96.00	376	94	0	376	94	0	152.1	9	156	50.7	NB LANE (STAGE 1)	
690+54.00	TO	693+00.00	246	62	0	246	62	0	64.0	6	103	21.3	SB LANE (STAGE 1)	
693+00.00	TO	694+78.50	179	45	0	179	45	0	46.4	4	74	15.5	SB LANE (STAGE 1)	
694+78.50	TO	700+11.95	533	133	0	533	133	0	138.7	13	222	46.2	SB LANE (STAGE 1)	
748+00.00	TO	748+96.00	96	24	0	96	24	0	25.0	2	40	8.3	SB LANE (STAGE 1)	
748+96.00	TO	755+00.00	604	151	0	604	151	0	157.0	15	252	52.3	SB LANE (STAGE 1)	
755+00.00	TO	761+22.00	622	156	0	622	156	0	161.7	16	259	53.9	SB LANE (STAGE 1)	
761+22.00	TO	763+91.50	217	67	0	217	67	0	70.1	7	95	23.4	SB LANE (STAGE 1)	
763+91.50	TO	767+16.50	217	81	0	217	81	0	84.5	8	99	28.2	SB LANE (STAGE 1)	
767+16.50	TO	770+00.00	284	71	0	284	71	0	32.6	-9	118	10.9	SB LANE (STAGE 1)	
770+00.00	TO	772+16.50	217	54	0	217	54	0	24.9	5	90	8.3	SB LANE (STAGE 1)	
772+16.50	TO	782+16.51	0	250	0	0	250	0	115.0	25	83	38.3	SB LANE (STAGE 1)	
675+68.00	TO	678+00.00	0	58	0	0	58	0	26.7	6	19	8.9	NB LANE (STAGE 2)	
678+00.00	TO	685+69.00	0	192	0	0	192	0	88.4	19	64	29.5	NB LANE (STAGE 2)	
685+69.00	TO	690+68.00	0	125	500	0	125	500	57.4	12	42	19.1	NB LANE (STAGE 2)	
690+68.00	TO	693+00.00	0	58	232	0	58	232	60.3	6	19	20.1	NB LANE (STAGE 2)	
693+00.00	TO	698+42.50	0	136	543	0	136	543	141.1	14	45	47.0	NB LANE (STAGE 2)	
698+42.50	TO	700+11.95	0	42	169	0	42	169	44.1	4	14	14.7	NB LANE (STAGE 2)	
748+00.00	TO	748+96.00	0	24	96	0	24	96	25.0	2	8	8.3	NB LANE (STAGE 2)	
748+96.00	TO	755+00.00	0	151	604	0	151	604	157.0	15	50	52.3	NB LANE (STAGE 2)	
755+00.00	TO	761+22.00	0	156	622	0	156	622	161.7	16	52	53.9	NB LANE (STAGE 2)	
761+22.00	TO	763+70.50	0	62	249	0	62	249	64.6	6	21	21.5	NB LANE (STAGE 2)	
763+70.50	TO	765+96.00	0	56	226	0	56	226	58.6	6	19	19.5	NB LANE (STAGE 2)	
694+56.00	TO	699+28.00	0	118	472	0	118	472	122.7	12	39	40.9	SB LANE (STAGE 2)	
699+28.00	TO	700+11.95	0	21	84	0	21	84	21.8	2	7	7.3	SB LANE (STAGE 2)	
748+00.00	TO	748+96.00	0	24	96	0	24	96	25.0	2	8	8.3	SB LANE (STAGE 2)	
748+96.00	TO	755+00.00	0	151	604	0	151	604	157.0	15	50	52.3	SB LANE (STAGE 2)	
755+00.00	TO	761+29.00	0	157	629	0	157	629	163.5	16	52	54.5	SB LANE (STAGE 2)	
761+29.00	TO	765+41.50	0	103	413	0	103	413	107.3	10	34	35.8	SB LANE (STAGE 2)	
765+41.50	TO	767+16.50	0	44	175	0	44	175	45.5	4	15	15.2	SB LANE (STAGE 2)	
767+16.50	TO	770+00.00	0	71	284	0	71	284	32.6	7	24	10.9	SB LANE (STAGE 2)	
770+00.00	TO	772+16.50	0	54	217	0	54	217	24.9	5	18	8.3	SB LANE (STAGE 2)	
772+16.50	TO	782+16.50	0	250	0	0	250	0	115.0	25	83	38.3	SB LANE (STAGE 2)	
SUBTOTAL			6728	4116	6212	6728	4116	6212	3536	273	139	404	3615	1179
TOTAL			17056			17056			3536	273	139	404	3615	1179

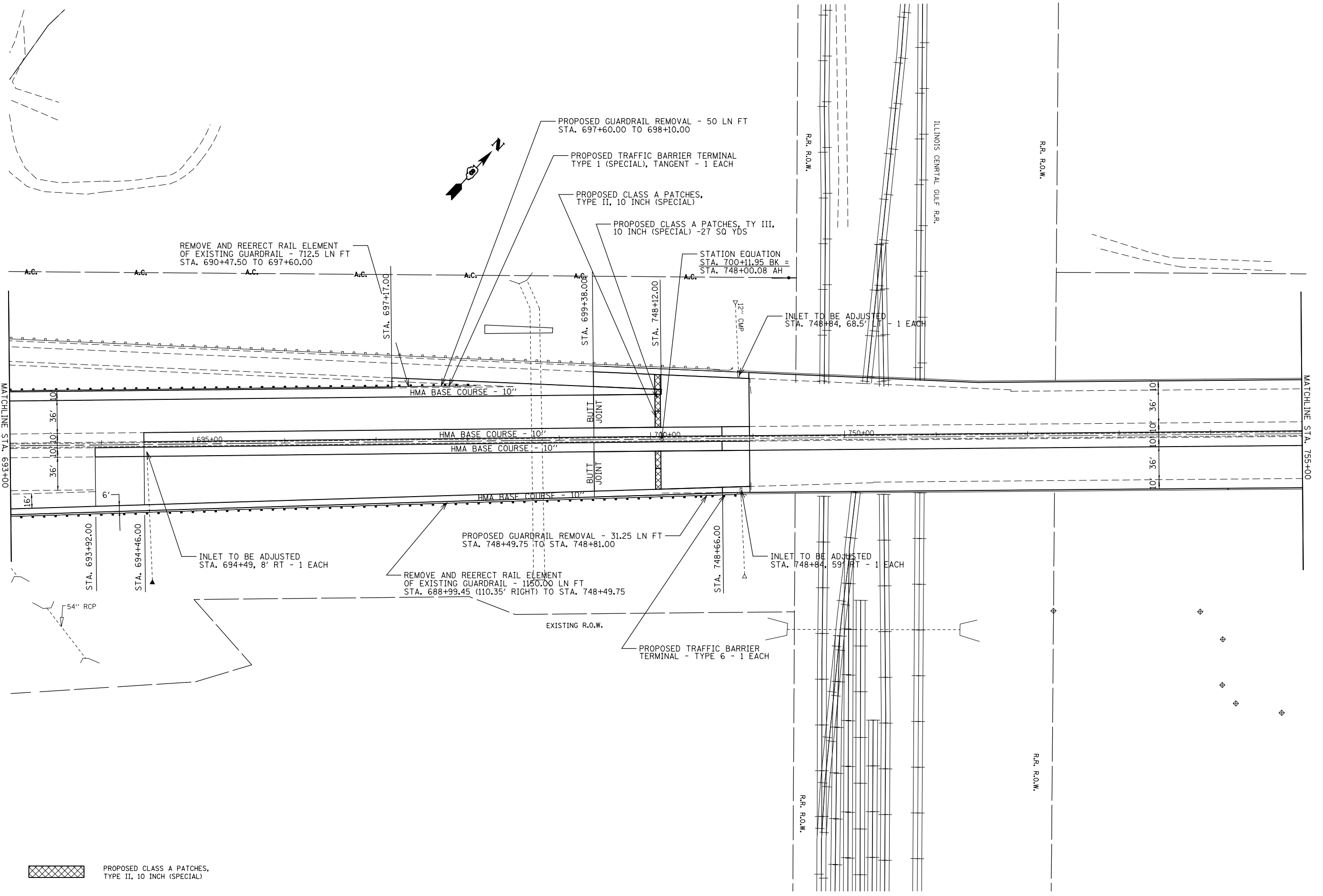


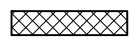
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS	
SCALE:	SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	8
CONTRACT NO. 76D51				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



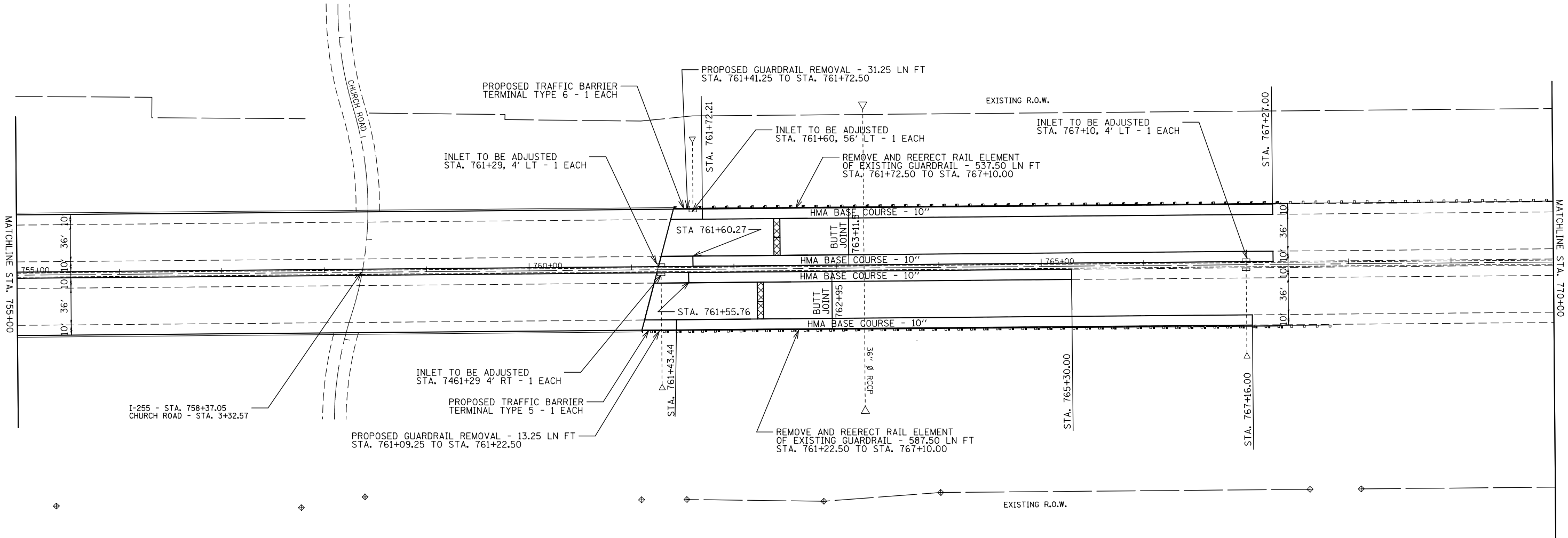
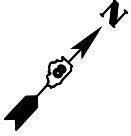
 PROPOSED CLASS A PATCHES,
TYPE II, 10 INCH (SPECIAL)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS	
SCALE:	SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	9
CONTRACT NO. 76D51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



I-255 - STA. 758+37.05
CHURCH ROAD - STA. 3+32.57

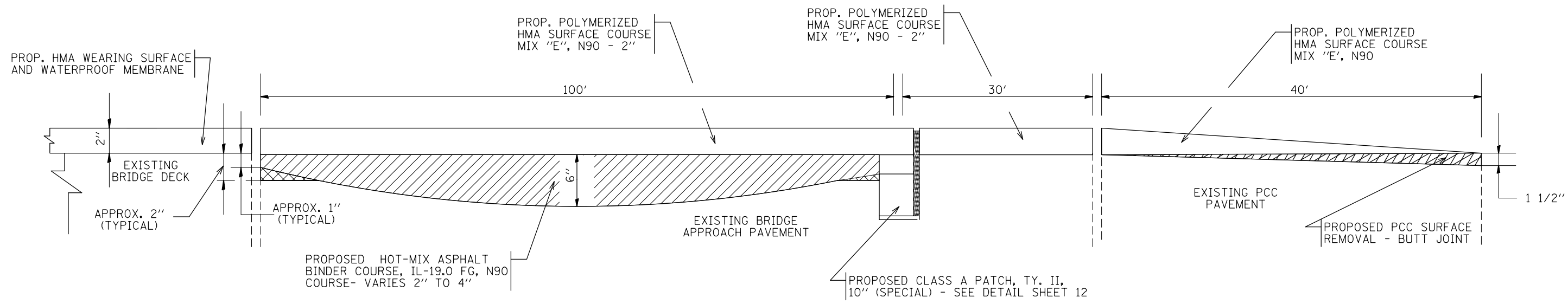
 PROPOSED CLASS A PATCHES,
TYPE II, 10 INCH (SPECIAL)

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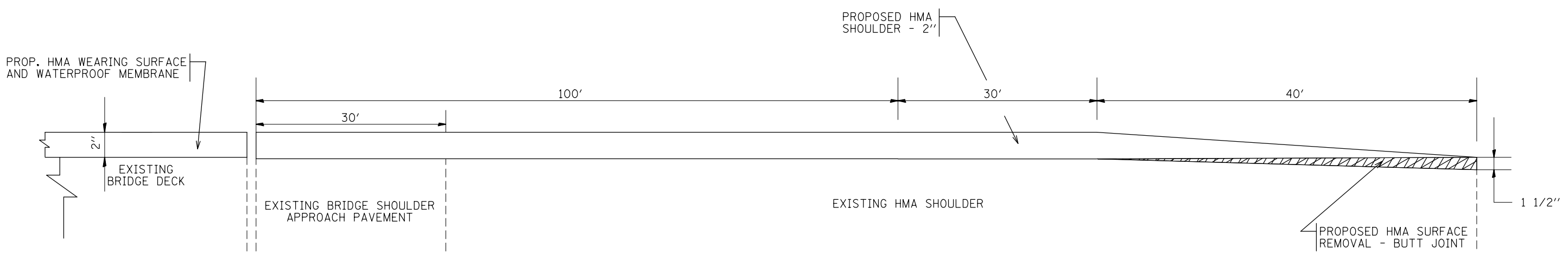
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	10
CONTRACT NO. 76D51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



RESURFACING TRANSITION AND APPROACH SETTLEMENT CORRECTION DETAIL

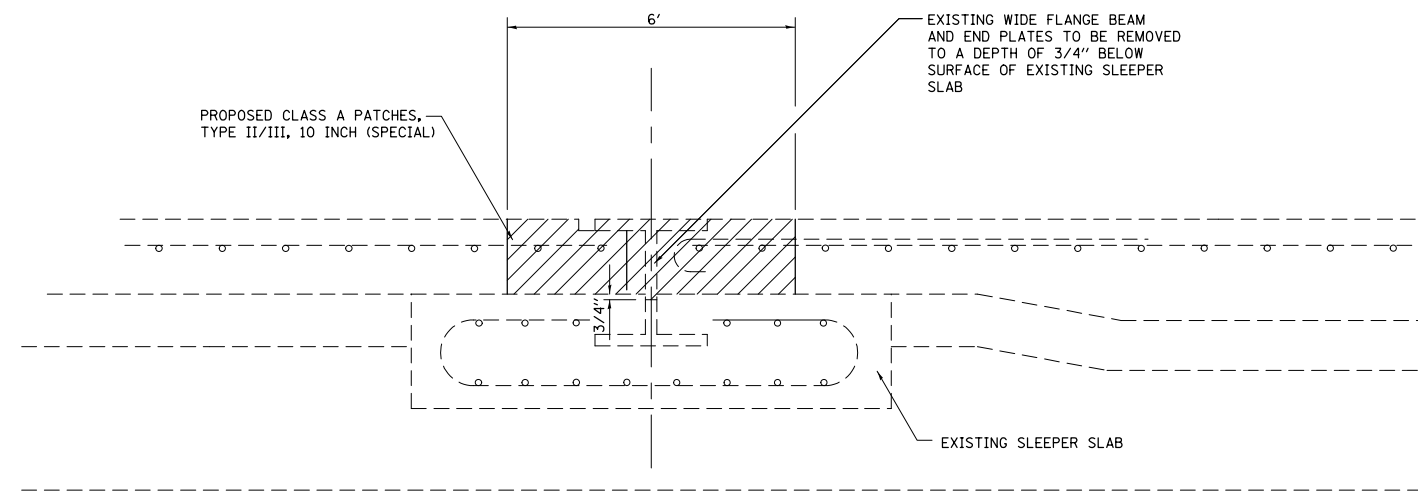


RESURFACING TRANSITION DETAIL FOR SHOULDERS

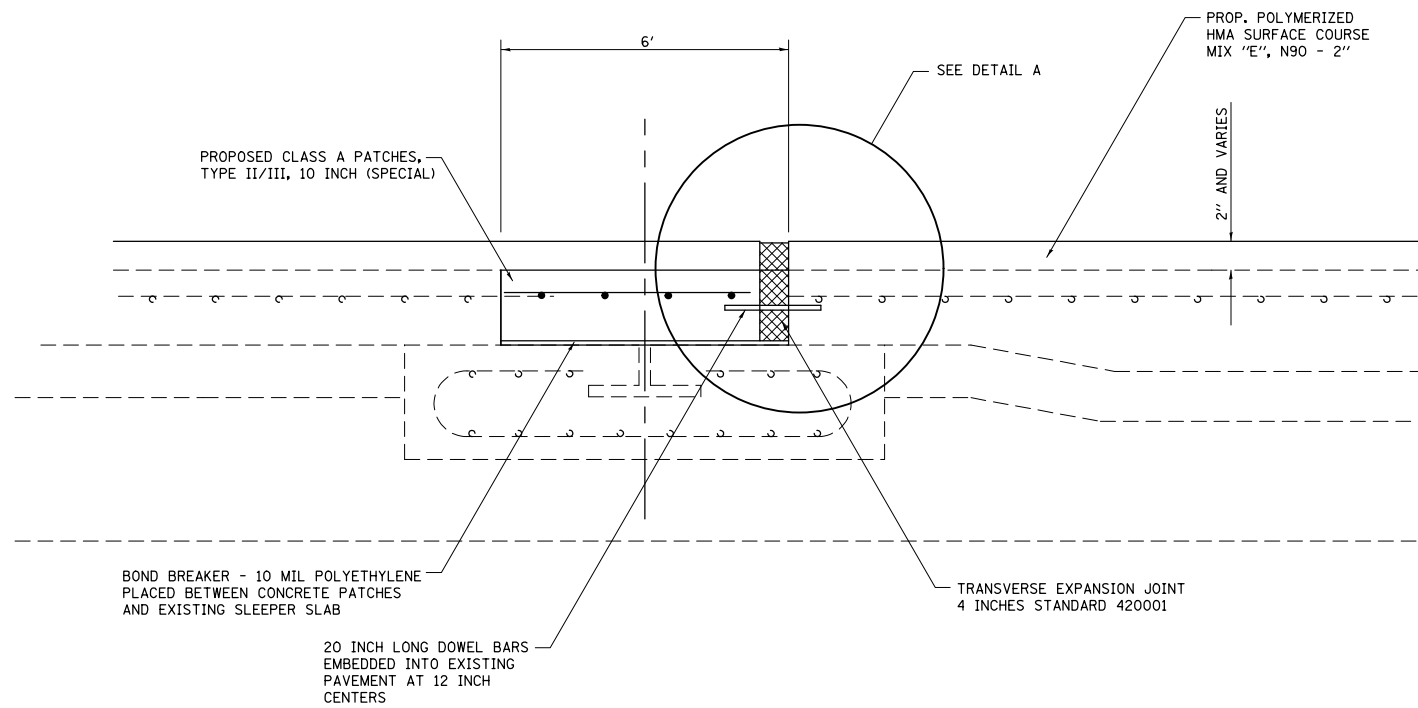
LEGEND

- HMA BINDER COURSE, IL-19.0 FG, N90
- PCC SURFACE REMOVAL - VARIABLE DEPTH (PURPOSE OF PCC SURFACE REMOVAL IS TO OBTAIN MINIMUM 2" THICKNESS REQUIRED FOR HMA BINDER COURSE)
- PCC/HMA SURFACE REMOVAL - BUTT JOINT

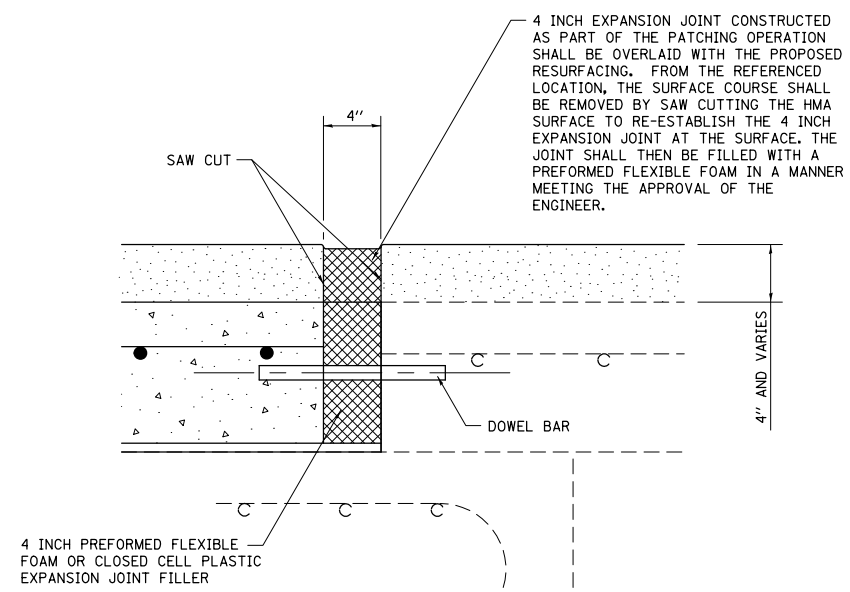
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		DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	255	82-4HVB-I	ST. CLAIR	46	11
		CHECKED -	REVISED -					CONTRACT NO. 76D51					
		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



EXISTING WIDE FLANGE
BEAM TERMINAL JOINT



PROPOSED EXPANSION
JOINT



DETAIL A

LEGEND

REMOVAL ITEM

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL AT WIDE FLANGE BEAM JOINT			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED -					CONTRACT NO. 76D51					
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

SUGGESTED SEQUENCE OF CONSTRUCTION

PRESTAGE CONSTRUCTION

- PRESTAGE CONSTRUCTION SHALL CONSIST OF: CONSTRUCTING THE 10" WIDENING OF THE OUTSIDE SHOULDERS (NORTHBOUND AND SOUTHBOUND) OF I-255 TO THE LIMITS SHOWN IN THE PLANS; PLACING THE PROTECTIVE SHIELD ON THE STRUCTURE; AND ANY MISCELLANEOUS WORK NECESSARY TO FACILITATE THE CONSTRUCTION OF THE PAVEMENT WIDENING FOR STAGE CONSTRUCTION.
- THE WIDENING SHALL CONSIST OF HOT-MIX ASPHALT BASE COURSE -10".
- TRAFFIC CONTROL FOR THIS WORK WILL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARDS 701400, 701401, 701411, 701456, AND 701501 AND AS SHOWN IN THE PLANS. A MINIMUM OF TWO LANES OF TRAFFIC WILL BE MAINTAINED AT ALL TIMES REGARDLESS OF THE CONTRACTOR'S CONSTRUCTION ACTIVITIES.

STAGE 1 CONSTRUCTION

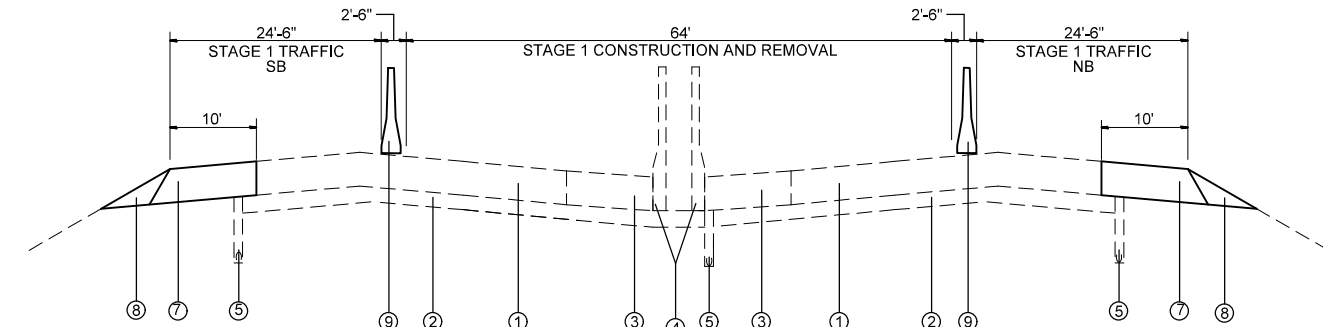
- STAGE 1 CONSTRUCTION SHALL CONSIST OF: WIDENING OF THE INSIDE SHOULDERS (NORTHBOUND AND SOUTHBOUND) TO THE LIMITS SHOWN IN THE PLANS; CLASS A PAVEMENT PATCHING; ANY MISCELLANEOUS WORK NECESSARY TO FACILITATE THE CONSTRUCTION OF THE PAVEMENT WIDENING FOR STAGE 2 CONSTRUCTION; STAGE 1 BRIDGE CONSTRUCTION AS DETAILED IN THE PLANS, AND HMA RESURFACING TRANSITIONING ON THE APPROACH PAVEMENT.
- THE WIDENING SHALL CONSIST OF HOT-MIX ASPHALT BASE COURSE -10".
- TRAFFIC CONTROL FOR THIS WORK WILL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARDS 701400, 701402 AND, 701411, AND AS SHOWN IN THE PLANS. A MINIMUM OF TWO LANES OF TRAFFIC WILL BE MAINTAINED AT ALL TIMES REGARDLESS OF THE CONTRACTOR'S CONSTRUCTION ACTIVITIES.

STAGE 2 CONSTRUCTION

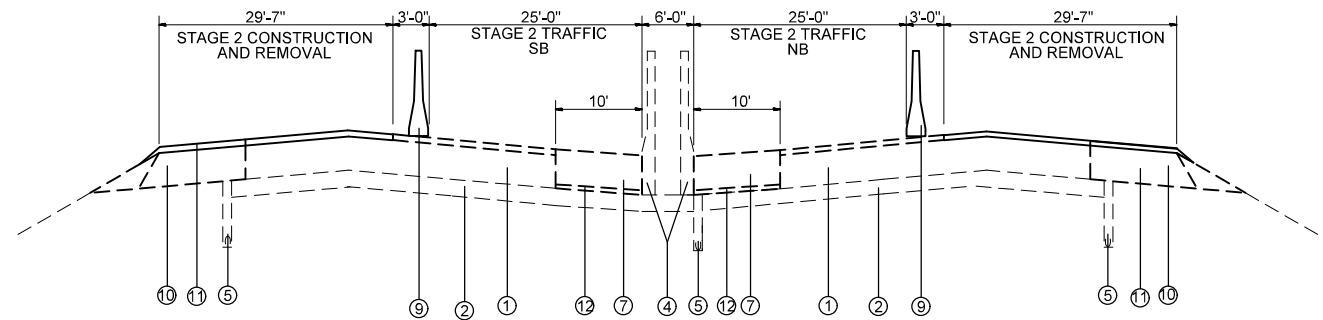
- STAGE 2 CONSTRUCTION SHALL CONSIST OF: CLASS A PAVEMENT PATCHING; STAGE 2 BRIDGE CONSTRUCTION AS DETAILED IN THE PLANS, HMA RESURFACING TRANSITIONS ON APPROACH PAVEMENT, AND GUARDRAIL IMPROVEMENTS.
- TRAFFIC CONTROL FOR THIS WORK WILL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARDS 701400, 701411, AND 701402. A MINIMUM OF TWO LANES OF TRAFFIC WILL BE MAINTAINED AT ALL TIMES REGARDLESS OF THE CONTRACTOR'S CONSTRUCTION ACTIVITIES.

NOTES

- CHANGEABLE MESSAGE BOARDS SHALL BE PLACED 2 WEEKS PRIOR TO CONSTRUCTION AND AT THE DIRECTION OF THE ENGINEER.
- THE CONTRACTOR WILL BE ALLOWED THE OPTION OF USING SAND MODULE IMPACT ATTENUATORS FOR THIS PROJECT.



STAGE 1 TRAFFIC



STAGE 2 TRAFFIC

LEGEND

- ① EXISTING CRPCC PAVEMENT - 10"
- ② EXISTING STABILIZED SUBBASE - 4"
- ③ EXISTING HMA SHOULDERS - 10"
- ④ EXISTING CONCRETE MEDIAN BARRIER
- ⑤ EXISTING UNDERDRAINS - 4"
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ PROPOSED HMA BASE COURSE - 10"
- ⑧ PROPOSED AGGREGATE SHOULDER, TYPE A
- ⑨ TEMPORARY CONCRETE BARRIER
- ⑩ PROPOSED HMA SHOULDERS
- ⑪ PROPOSED AGGREGATE TYPE C
- ⑫ HMA BASE COURSE PLACED FOR STAGE 1 TRAFFIC

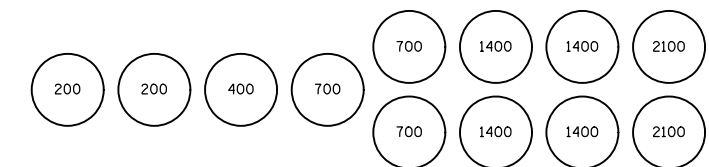
STAGING SCHEDULE

LOCATION	HOT-MIX ASPHALT BASE COURSE-10" SQ YD	PAVED SHOULDER REMOVAL SQ YD	TEMPORARY CONCRETE BARRIER FOOT	RELOCATE TEMPORARY CONCRETE BARRIER FOOT	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) EACH	IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE) EACH
STAGE I	3236.5	3236.5	1837.5		2	
STAGE II	2490.5	2490.5		2025		2
TOTAL	5727	5727	1837.5	2025	2	2

PEAK HOUR LANE CLOSURE SCHEDULE

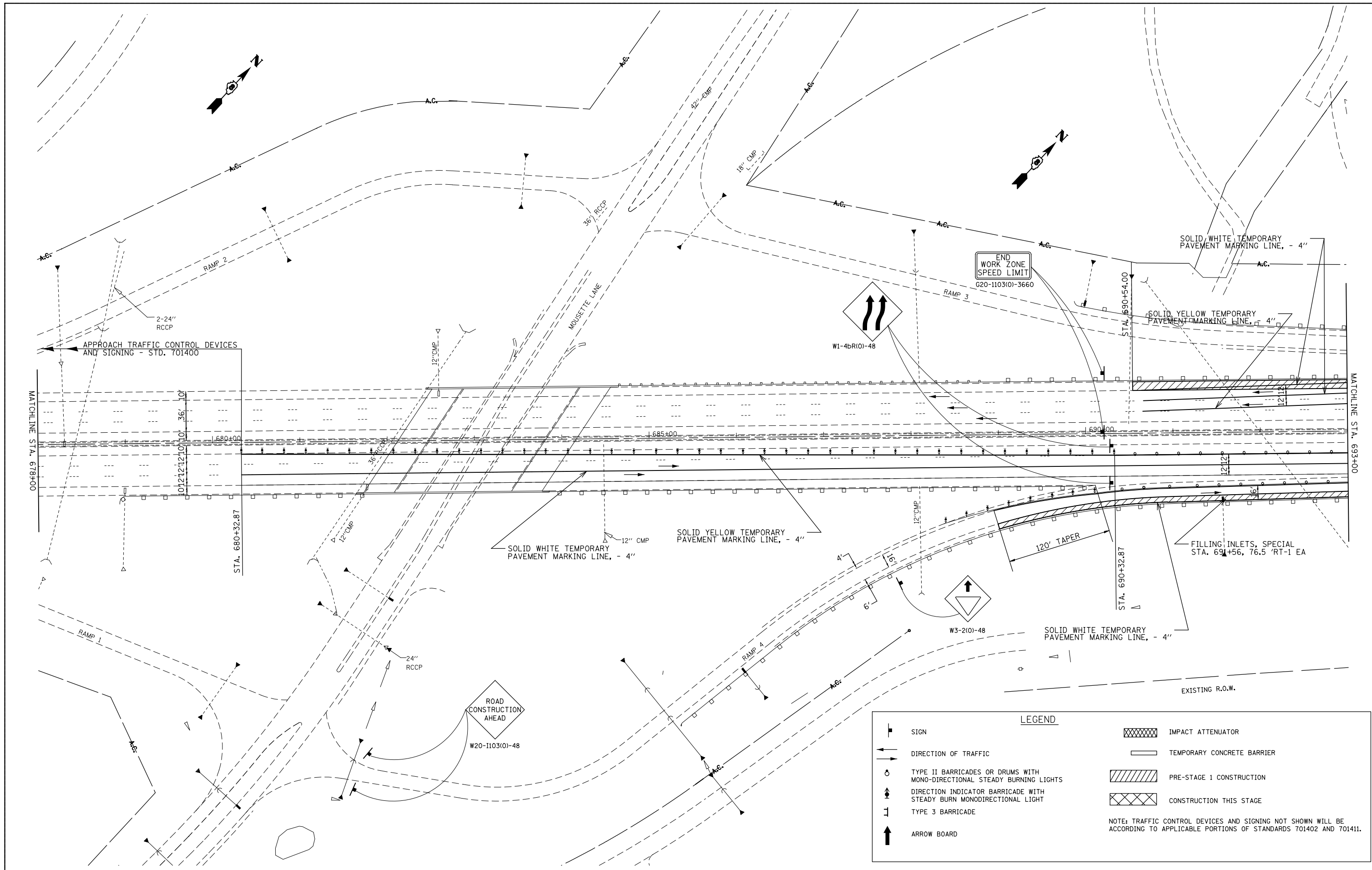
SOUTHBOUND	SOUTHBOUND												DAYS											
	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM		12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM
	1 LANE OPEN												SUNDAY											
	1 LANE OPEN				2 LANES OPEN				1 LANE OPEN				MONDAY											
	1 LANE OPEN				2 LANES OPEN				1 LANE OPEN				TUESDAY											
	1 LANE OPEN				2 LANES OPEN				1 LANE OPEN				WEDNESDAY											
	1 LANE OPEN				2 LANES OPEN				1 LANE OPEN				THURSDAY											
	1 LANE OPEN						ALL LANES OPEN						FRIDAY											
	1 LANE OPEN												SATURDAY											
NORTHBOUND	NORTHBOUND												DAYS											
	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM		12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM
	1 LANE OPEN												SUNDAY											
	1 LANE OPEN				2 LANES OPEN				1 LANE OPEN				MONDAY											
	1 LANE OPEN				2 LANES OPEN				1 LANE OPEN				TUESDAY											
	1 LANE OPEN				2 LANES OPEN				1 LANE OPEN				WEDNESDAY											
	1 LANE OPEN				2 LANES OPEN				1 LANE OPEN				THURSDAY											
	1 LANE OPEN						ALL LANES OPEN						FRIDAY											
	1 LANE OPEN												SATURDAY											

FOR CLARIFICATION PURPOSES: EXCEPT FOR THE BRIDGE REPAIR WORK WHICH NECESSITATES THE STAGING SHOWN IN THE PLANS, ALL LANES MUST BE OPEN FROM 12 NOON TO 12 MIDNIGHT ON FRIDAYS. IN ADDITION, WITH THE EXCEPTION OF THE BRIDGE REPAIR WORK STAGING, THE RESIDENT ENGINEER SHALL COORDINATE ALL LANE CLOSURES WITH GRIZZLY STADIUM IN ORDER TO MINIMIZE DISRUPTION ON GAME DAYS.



TEMPORARY SAND MODULE IMPACT ATTENUATOR LAYOUT
(IF OPTION USED)

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND STAGE CONSTRUCTION NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			255	82-4HVB-I	ST. CLAIR	46	13	
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -			CONTRACT NO. 76D51					
	PLOT DATE = #DATE#	DATE -	REVISED -			SCALE:	SHEET NO. 1 OF 10 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



LEGEND			
	SIGN		IMPACT ATTENUATOR
	DIRECTION OF TRAFFIC		TEMPORARY CONCRETE BARRIER
	TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS		PRE-STAGE 1 CONSTRUCTION
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT		CONSTRUCTION THIS STAGE
	TYPE 3 BARRICADE		
	ARROW BOARD		

NOTE: TRAFFIC CONTROL DEVICES AND SIGNING NOT SHOWN WILL BE ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701402 AND 701411.

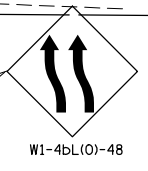
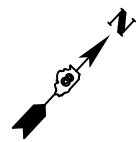
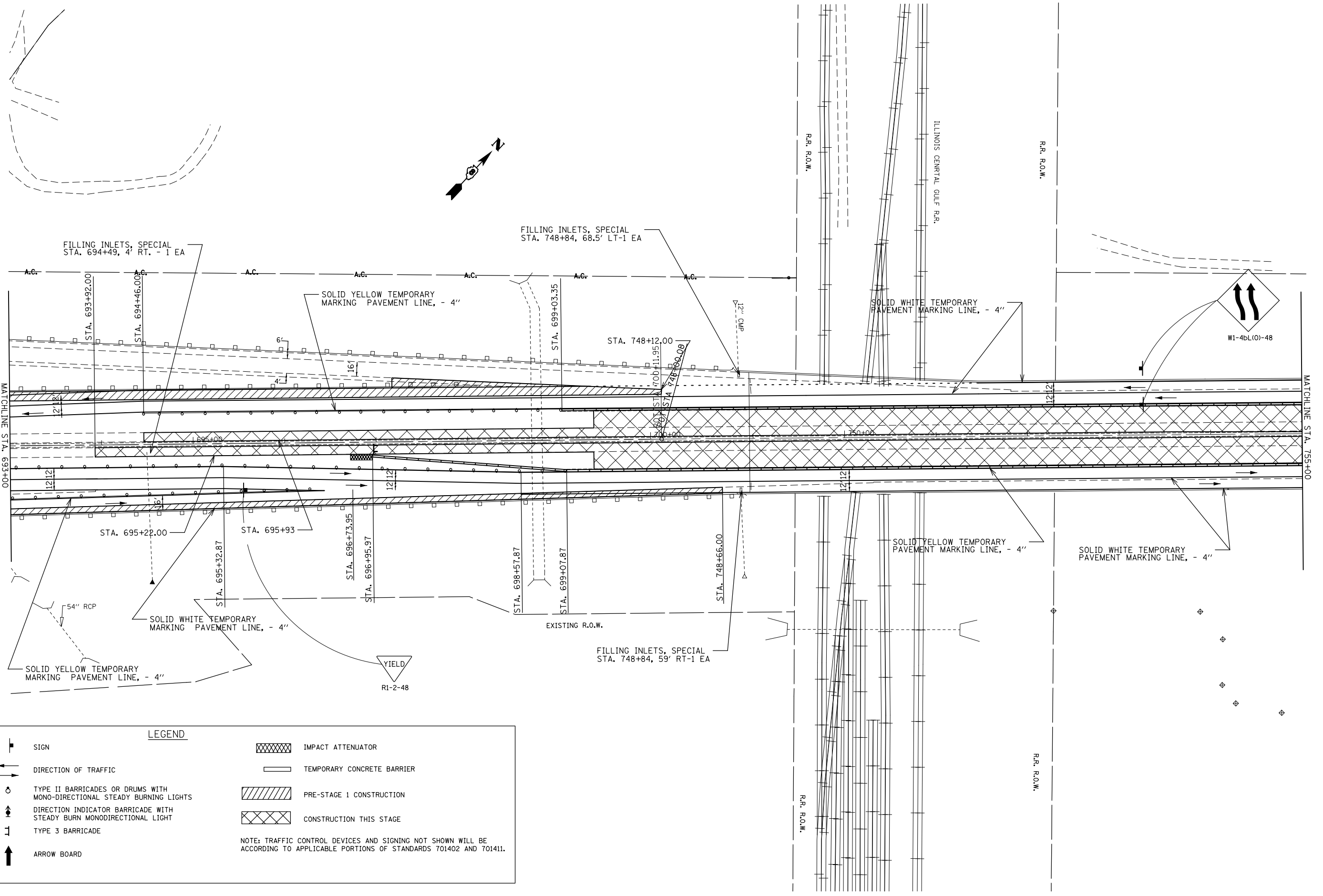
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FILEL		DRAWN -	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = *DATE*	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE I TRAFFIC CONTROL
AND CONSTRUCTION**

SCALE: SHEET NO. 2 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-1	ST. CLAIR	46	14
CONTRACT NO. 76D51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

SIGN	IMPACT ATTENUATOR
DIRECTION OF TRAFFIC	TEMPORARY CONCRETE BARRIER
TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS	PRE-STAGE 1 CONSTRUCTION
DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT	CONSTRUCTION THIS STAGE
TYPE 3 BARRICADE	
ARROW BOARD	

NOTE: TRAFFIC CONTROL DEVICES AND SIGNING NOT SHOWN WILL BE ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701402 AND 701411.

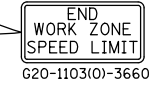
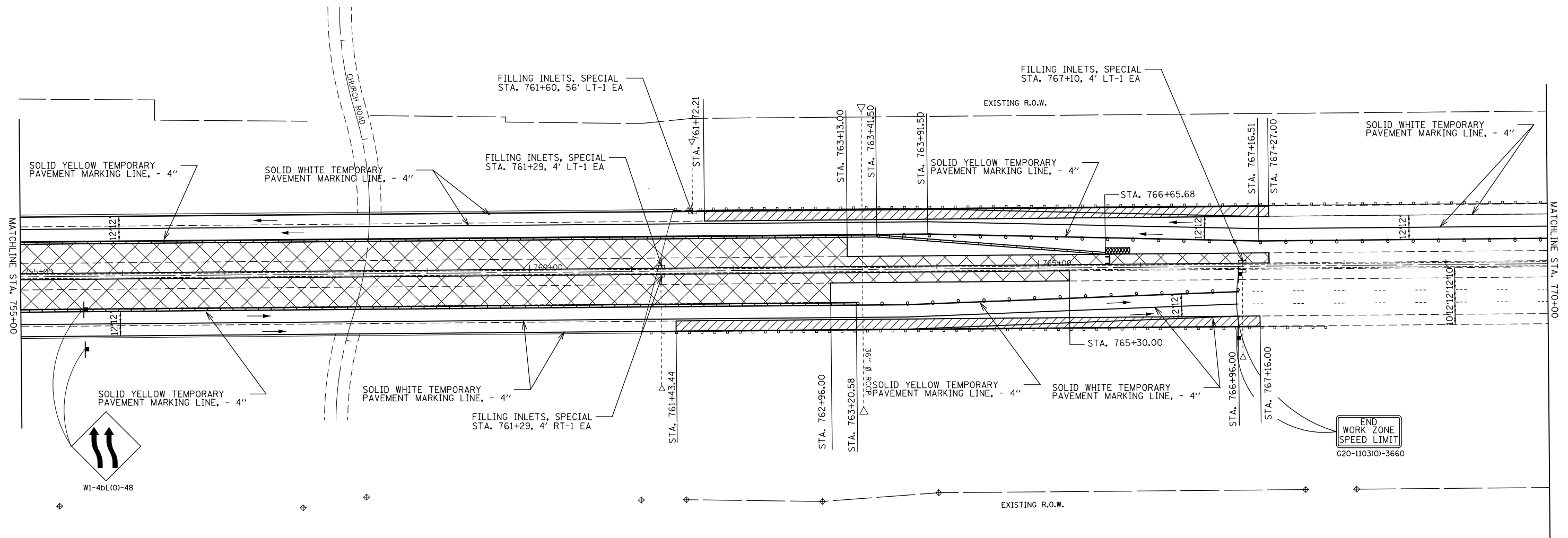
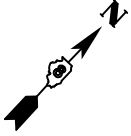
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE I TRAFFIC CONTROL
AND CONSTRUCTION**

SCALE: SHEET NO. 3 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	15
CONTRACT NO. 76D51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

	SIGN		IMPACT ATTENUATOR
	DIRECTION OF TRAFFIC		TEMPORARY CONCRETE BARRIER
	TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS		PRE-STAGE 1 CONSTRUCTION
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT		CONSTRUCTION THIS STAGE
	TYPE 3 BARRICADE	NOTE: TRAFFIC CONTROL DEVICES AND SIGNING NOT SHOWN WILL BE ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701402 AND 701411.	
	ARROW BOARD		

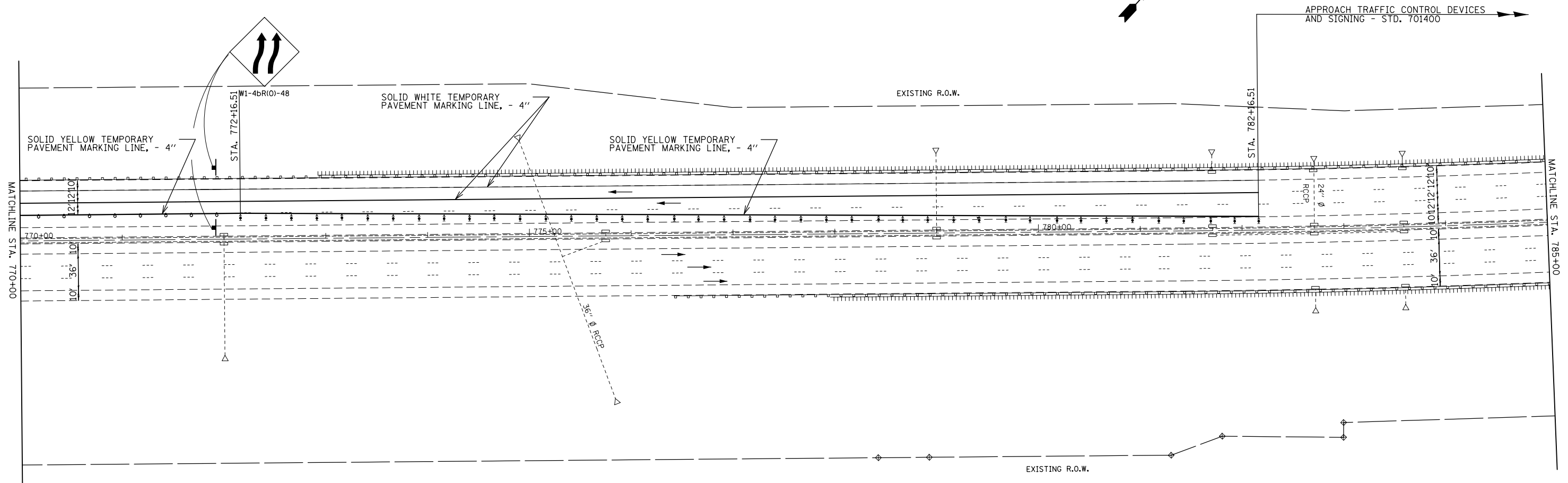
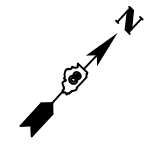
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	PLOT DATE = #DATE*	DATE -	REVISED -








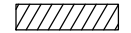

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE I TRAFFIC CONTROL
AND CONSTRUCTION**

SCALE: SHEET NO. 4 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	16
CONTRACT NO. 76D51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



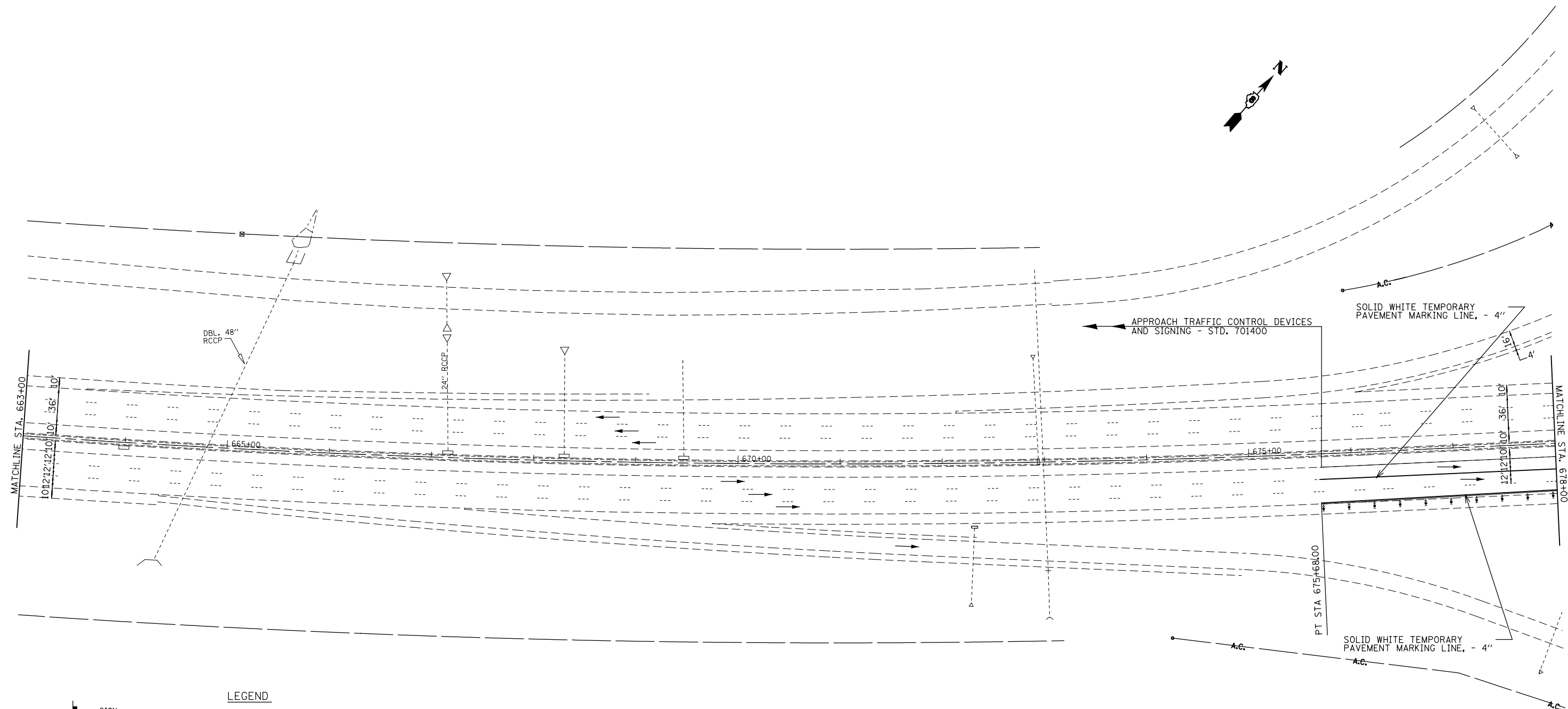
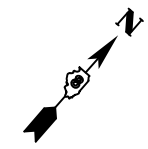
- LEGEND**
-  SIGN
 -  DIRECTION OF TRAFFIC
 -  TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
 -  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 -  ARROW BOARD
 -  IMPACT ATTENUATOR
 -  TEMPORARY CONCRETE BARRIER
 -  PRE-STAGE 1 CONSTRUCTION
 -  CONSTRUCTION THIS STAGE
- NOTE: TRAFFIC CONTROL DEVICES AND SIGNING NOT SHOWN WILL BE ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701402 AND 701411.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
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	PLOT DATE = #DATE#	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL AND CONSTRUCTION			
SCALE:	SHEET NO. 5 OF 10 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	17
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76D51	



LEGEND

- SIGN
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ARROW BOARD
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- PRE-STAGE 1 CONSTRUCTION
- CONSTRUCTION THIS STAGE

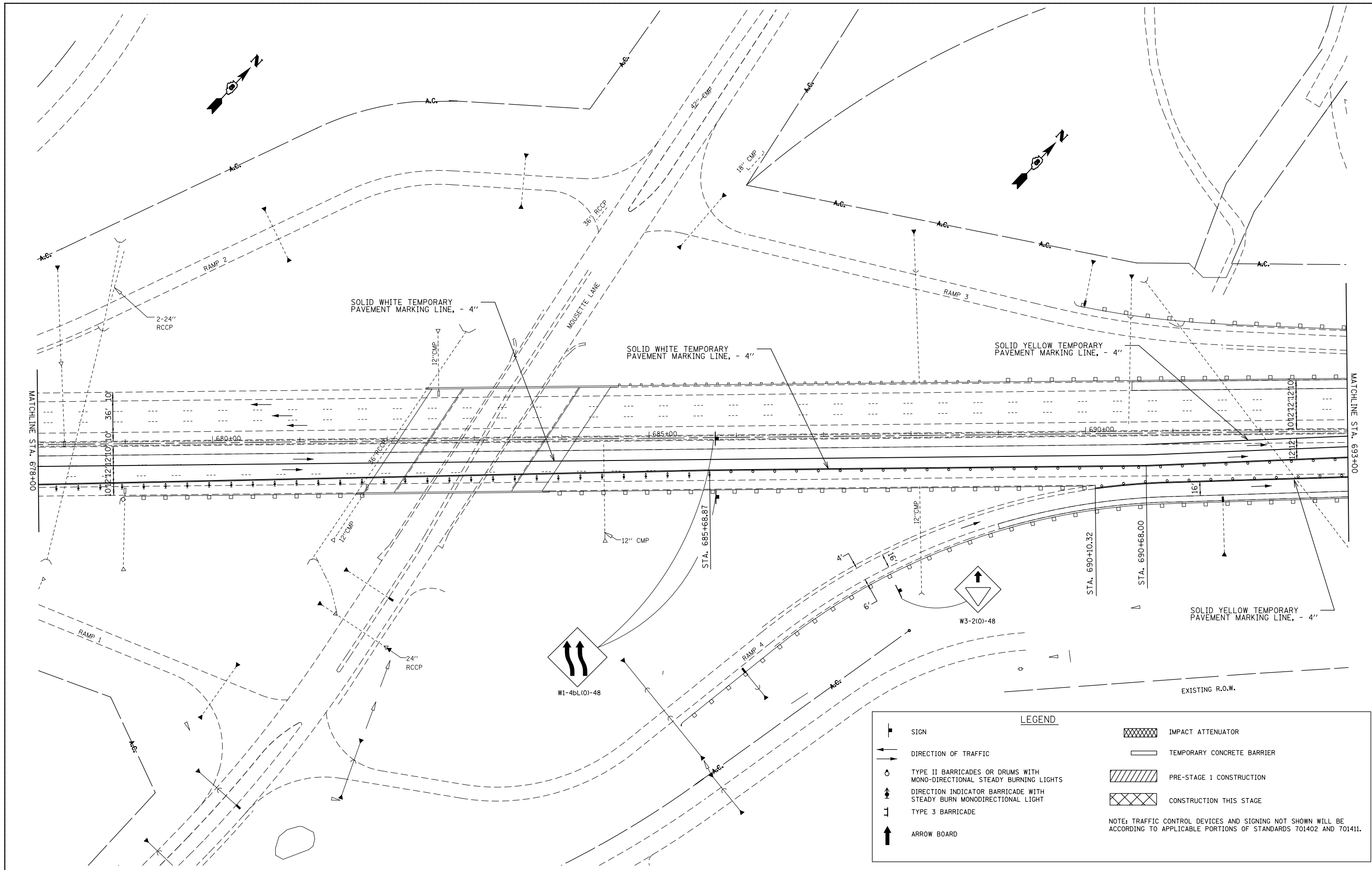
NOTE: TRAFFIC CONTROL DEVICES AND SIGNING NOT SHOWN WILL BE ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701402 AND 701411.

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		DRAWN -	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = *DATE*	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL AND CONSTRUCTION			
SCALE:	SHEET NO. 6 OF 10 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	18
CONTRACT NO. 76D51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



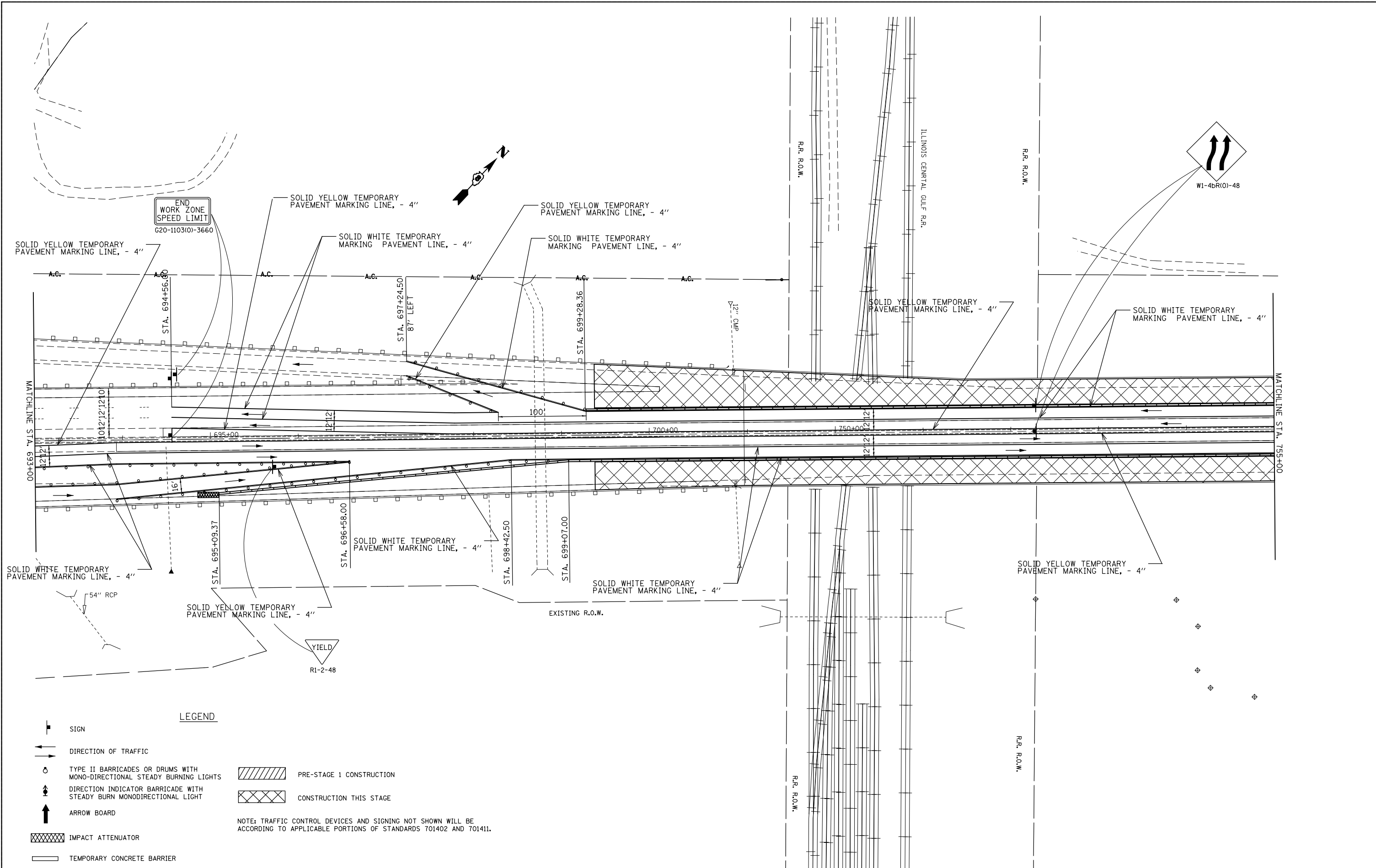
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	PLOT SCALE = #SCALE*	CHECKED -	REVISED -
	PLOT DATE = #DATE*	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 TRAFFIC CONTROL
AND CONSTRUCTION**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	19
CONTRACT NO. 76D51				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCALE: SHEET NO. 7 OF 10 SHEETS STA. TO STA.



LEGEND

- SIGN
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ARROW BOARD
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- PRE-STAGE 1 CONSTRUCTION
- CONSTRUCTION THIS STAGE

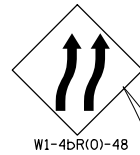
NOTE: TRAFFIC CONTROL DEVICES AND SIGNING NOT SHOWN WILL BE ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701402 AND 701411.

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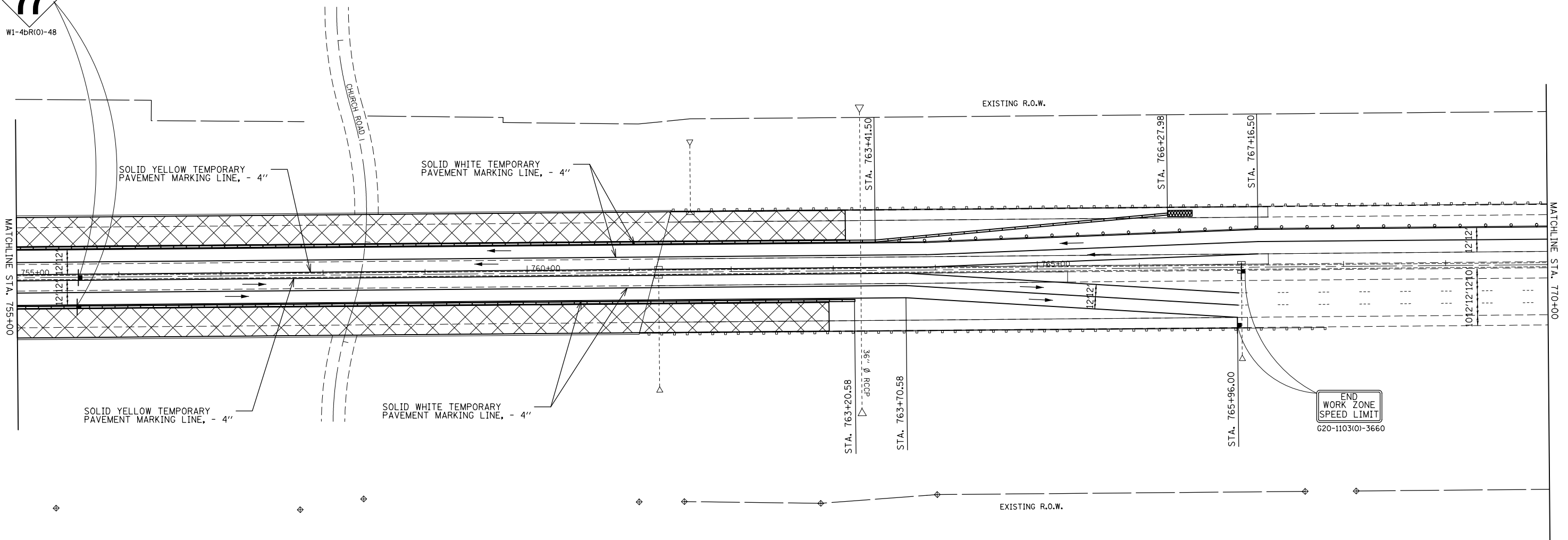
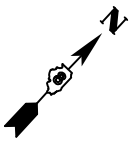
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:		STAGE I TRAFFIC CONTROL AND CONSTRUCTION	
SHEET NO. 8	OF 10 SHEETS	STA.	TO STA.










F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	20
CONTRACT NO. 76D51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



W1-4BR(0)-48



LEGEND

-  SIGN
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  ARROW BOARD
-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  PRE-STAGE 1 CONSTRUCTION
-  CONSTRUCTION THIS STAGE

NOTE: TRAFFIC CONTROL DEVICES AND SIGNING NOT SHOWN WILL BE ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701402 AND 701411.

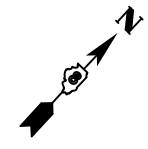
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

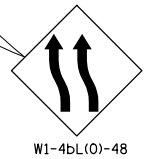
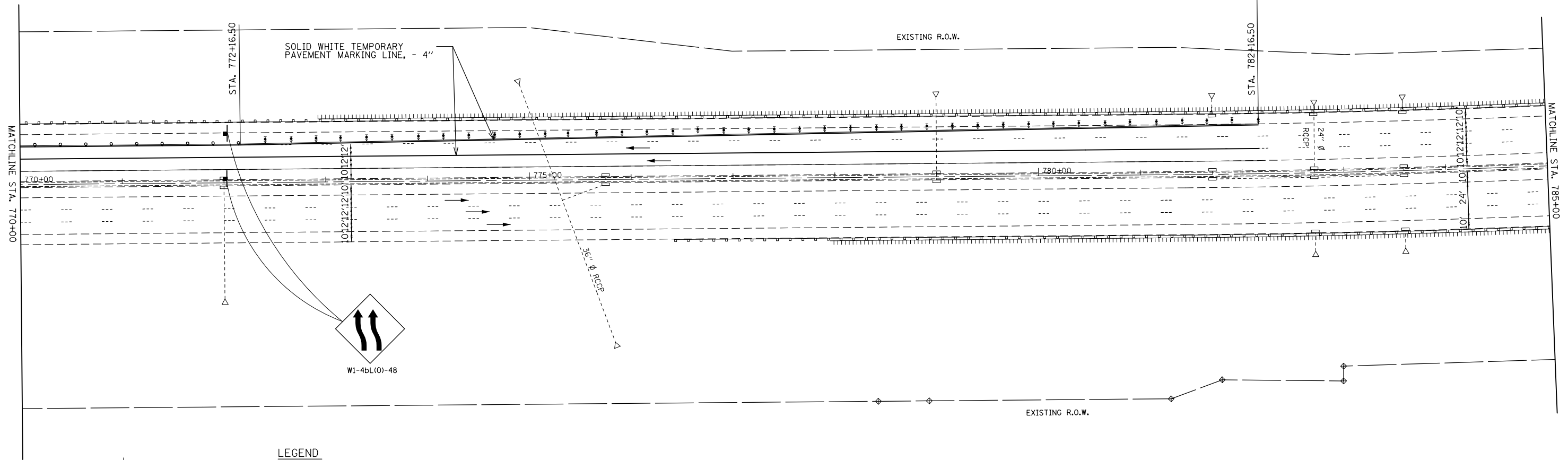
**STAGE I TRAFFIC CONTROL
AND CONSTRUCTION**

SCALE: SHEET NO. 9 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	21
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76D51	



APPROACH TRAFFIC CONTROL DEVICES AND SIGNING - STD. 701400



- LEGEND**
- SIGN
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
 - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ARROW BOARD
 - IMPACT ATTENUATOR
 - TEMPORARY CONCRETE BARRIER
 - PRE-STAGE 1 CONSTRUCTION
 - CONSTRUCTION THIS STAGE

NOTE: TRAFFIC CONTROL DEVICES AND SIGNING NOT SHOWN WILL BE ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701402 AND 701411.

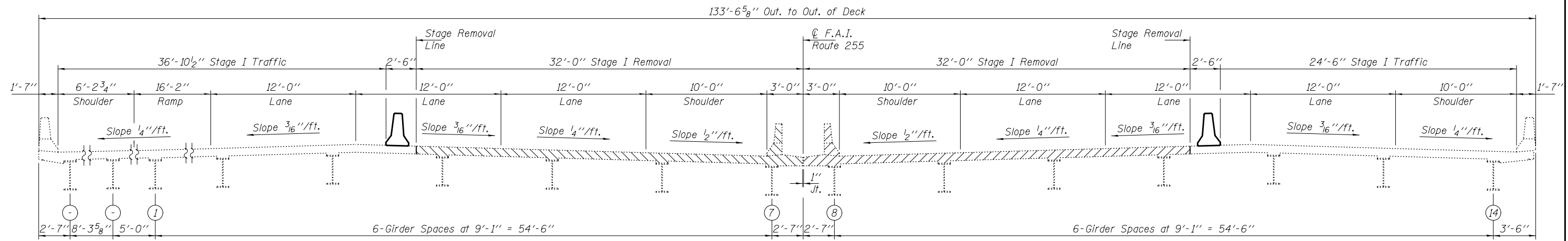
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#FILE#		DRAWN -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

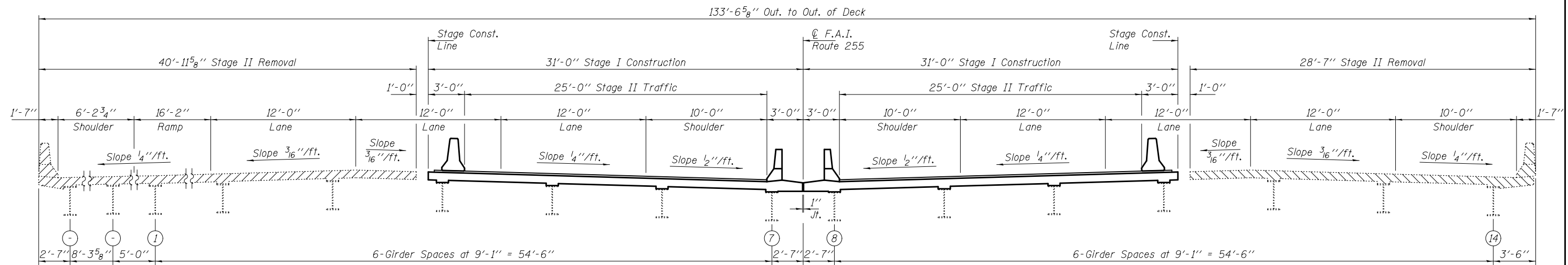
**STAGE I TRAFFIC CONTROL
AND CONSTRUCTION**

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

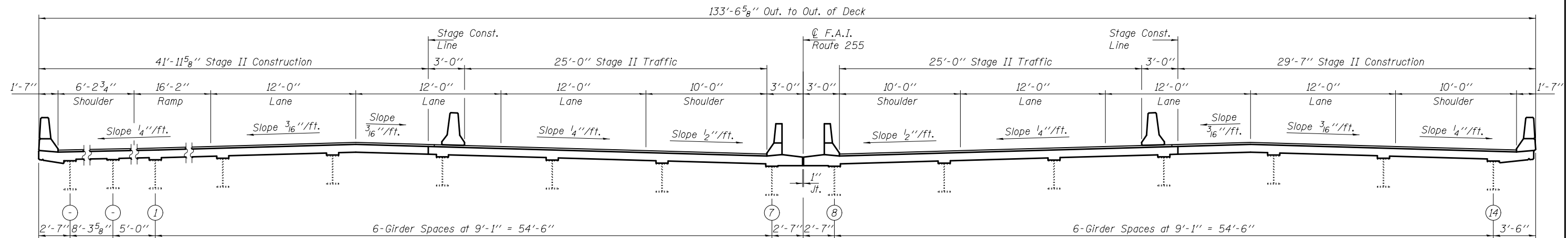
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	46	22
CONTRACT NO. 76D51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



STAGE I REMOVAL AT SOUTH ABUTMENT
(Looking North)



STAGE I CONSTRUCTION & STAGE II REMOVAL AT SOUTH ABUTMENT
(Looking North)



STAGE II CONSTRUCTION AT SOUTH ABUTMENT
(Looking North)

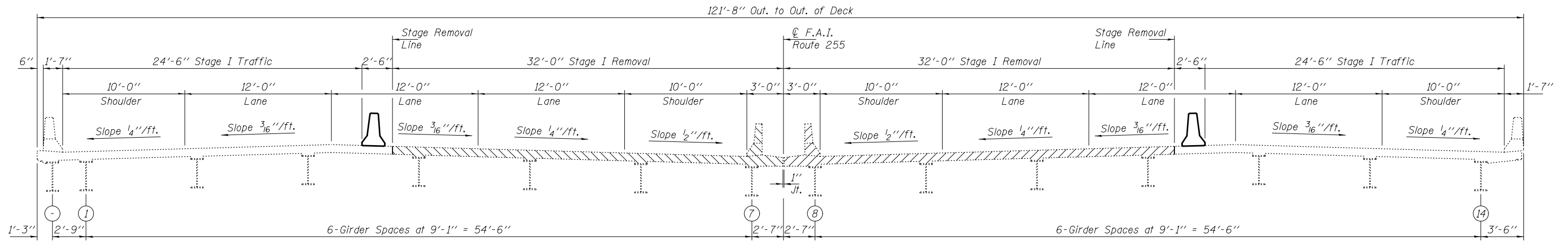
DESIGNED ATH	EXAMINED <i>Timothy A. [Signature]</i>	DATE JANUARY 22, 2014
CHECKED VHV	PASSED <i>[Signature]</i>	REVISED
DRAWN Steffen	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED ATH VHV		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

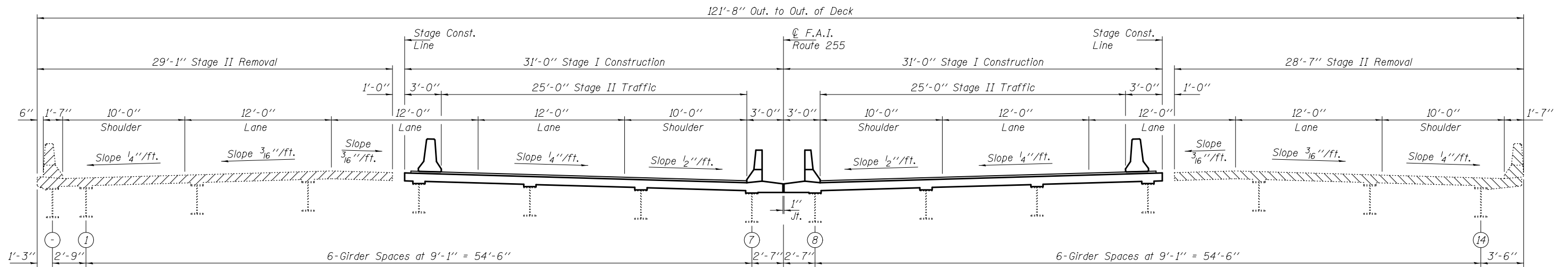
STAGING DETAILS AT SOUTH ABUTMENT
SN 082-0227

SHEET NO. 2 OF 17 SHEETS

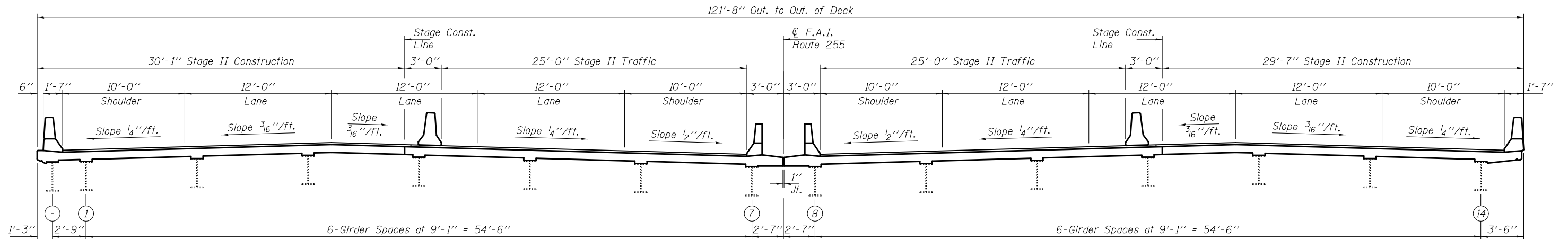
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HB-1	ST. CLAIR	46	24
CONTRACT NO. 76D51				
ILLINOIS FED. AID PROJECT				



STAGE I REMOVAL AT PIER 2, SPAN 2
(Looking North)



STAGE I CONSTRUCTION & STAGE II REMOVAL AT PIER 2, SPAN 2
(Looking North)



STAGE II CONSTRUCTION AT PIER 2, SPAN 2
(Looking North)

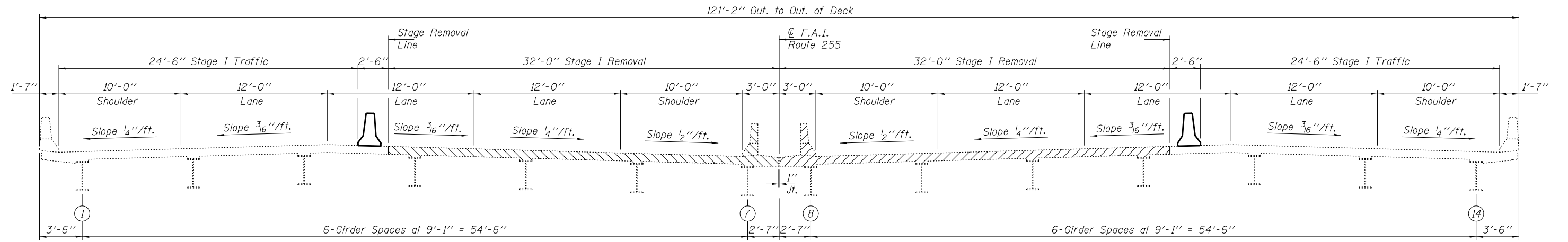
DESIGNED ATH	EXAMINED <i>Timothy A. [Signature]</i>	DATE JANUARY 22, 2014
CHECKED VHV	PASSED <i>[Signature]</i>	REVISED
DRAWN Steffen	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED ATH VHV		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

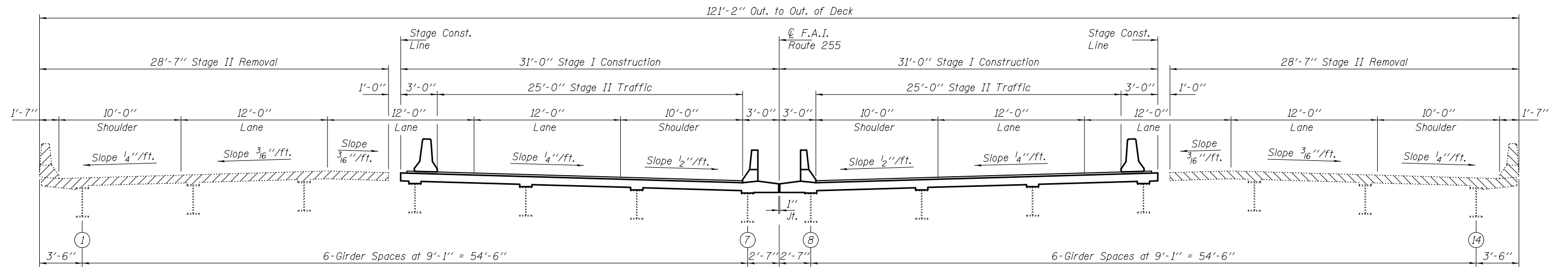
STAGING DETAILS AT PIER 2, SPAN 2
SN 082-0227

SHEET NO. 3 OF 17 SHEETS

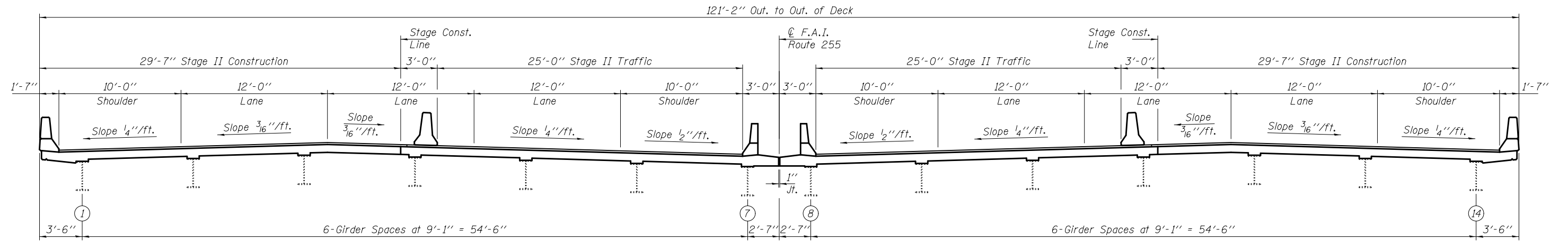
F.A.I. RTE. 255	SECTION 82-4HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 46	SHEET NO. 25
CONTRACT NO. 76D51			ILLINOIS FED. AID PROJECT	



STAGE I REMOVAL AT PIER 2, SPAN 3, PIER 6 & NORTH ABUTMENT
(Looking North)



STAGE I CONSTRUCTION & STAGE II REMOVAL AT PIER 2, SPAN 3, PIER 6 & NORTH ABUTMENT
(Looking North)



STAGE II CONSTRUCTION AT PIER 2, SPAN 3, PIER 6 & NORTH ABUTMENT
(Looking North)

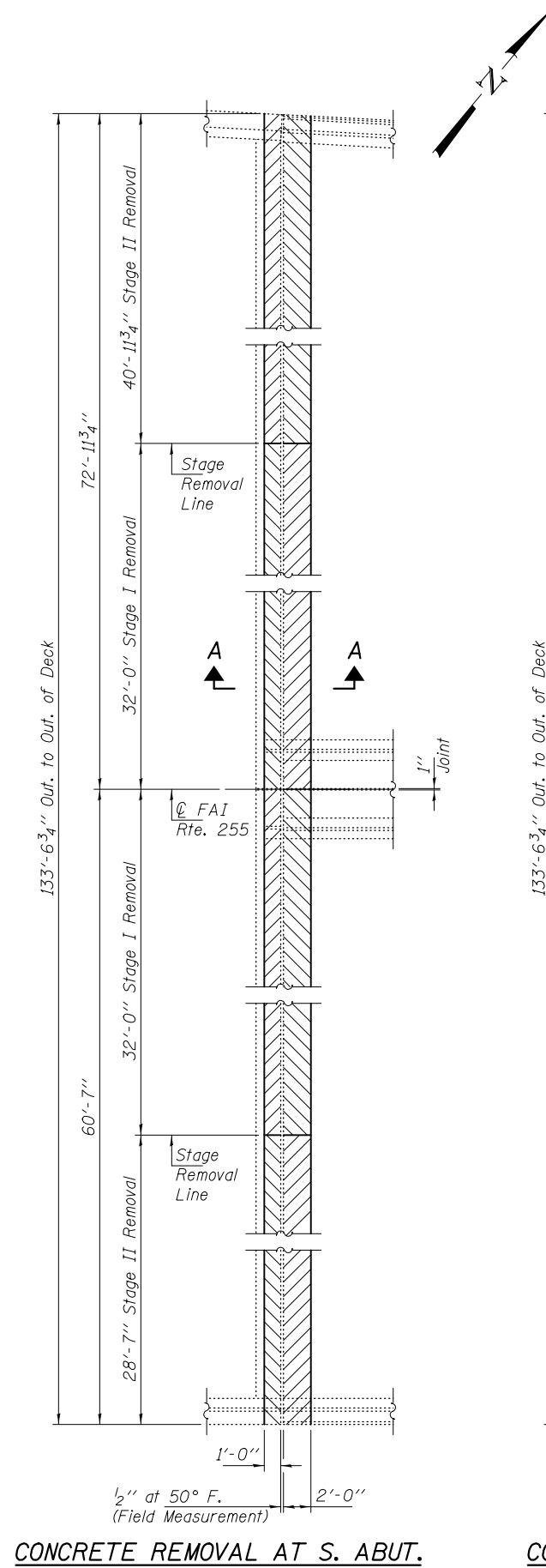
DESIGNED <i>ATH</i>	EXAMINED <i>Timothy A. [Signature]</i>	DATE JANUARY 22, 2014
CHECKED <i>VHV</i>	PASSED <i>[Signature]</i>	REVISED
DRAWN <i>Steffen</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED <i>ATH VHV</i>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

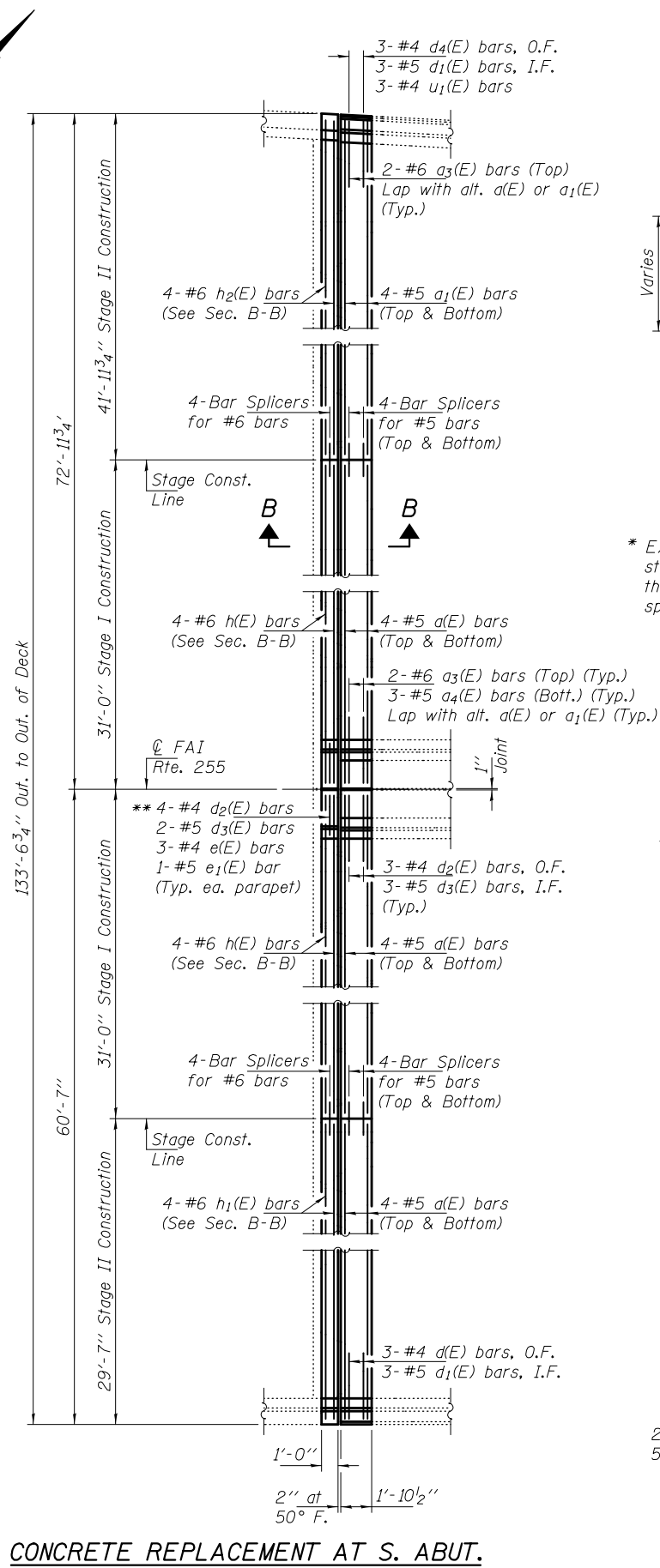
STAGING DETAILS AT PIER 2, SPAN 3, PIER 6 & NORTH ABUTMENT
SN 082-0227

SHEET NO. 4 OF 17 SHEETS

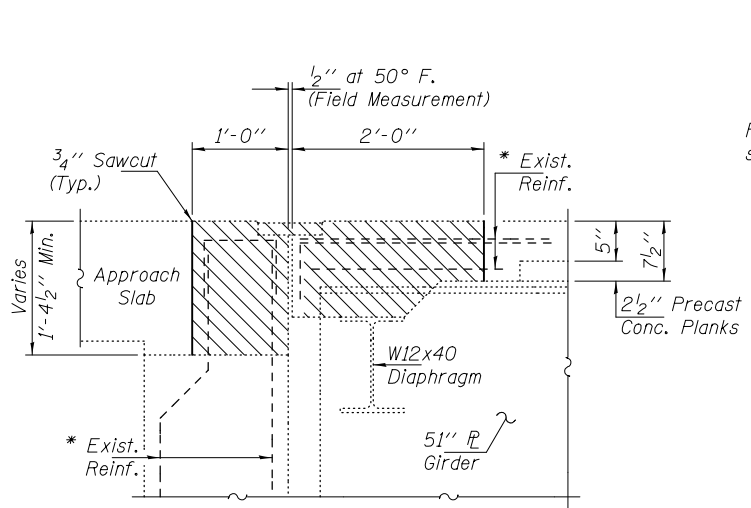
F.A.I. RTE. 255	SECTION 82-4HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 46	SHEET NO. 26
CONTRACT NO. 76D51			ILLINOIS FED. AID PROJECT	



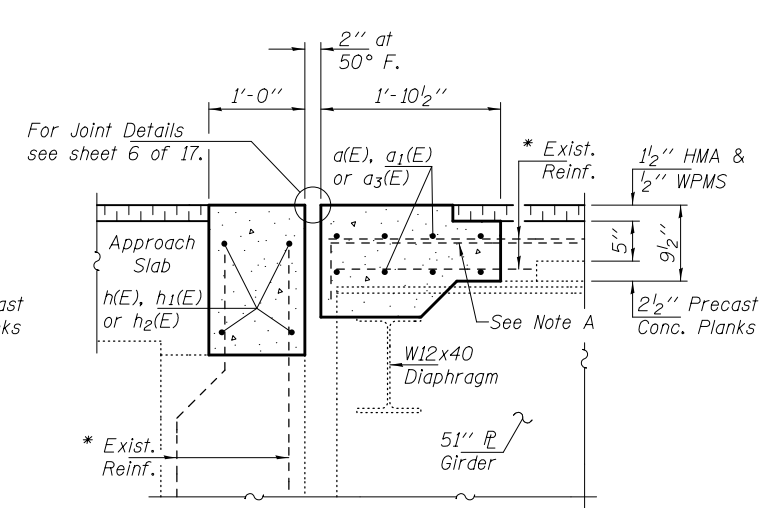
CONCRETE REMOVAL AT S. ABUT.



CONCRETE REPLACEMENT AT S. ABUT.



SECTION A-A



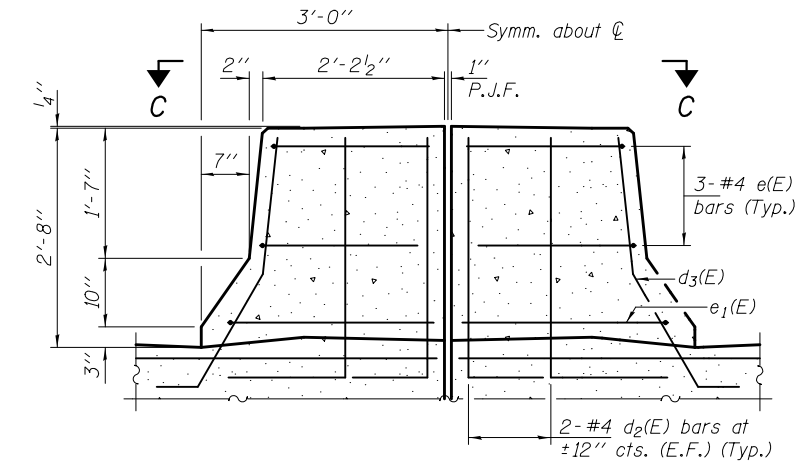
SECTION B-B

* 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.

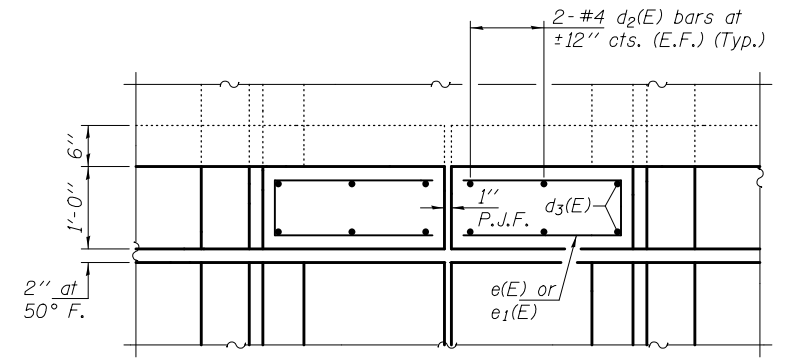
Note A: Straighten, bend and cut existing x(E) bar as necessary to provide 1" clearance.

** See Section thru Abutment Median & View C-C for details.

Notes:
Hatched areas indicate concrete removal.
For Reinforcement Details and Parapet Details see sheet 14 of 17.
Removal of existing joint is included with Concrete Removal.



SECTION THRU ABUTMENT MEDIAN



VIEW C-C

Bridge Deck Reinforcement not shown for clarity.

BILL OF MATERIAL (S. ABUT.)

Bar	No.	Size	Length	Shape
a(E)	24	#5	28'-6"	—
a ₁ (E)	8	#5	40'-10"	—
a ₃ (E)	8	#6	4'-0"	—
a ₄ (E)	6	#5	4'-0"	—
h(E)	8	#6	30'-8"	—
h ₁ (E)	4	#6	29'-0"	—
h ₂ (E)	4	#6	41'-6"	—
d(E)	3	#4	5'-7"	L
d ₁ (E)	6	#5	3'-11"	L
d ₂ (E)	14	#4	4'-4"	L
d ₃ (E)	10	#5	3'-9"	L
d ₄ (E)	3	#4	3'-10"	L
e(E)	6	#4	4'-6"	□
e ₁ (E)	2	#5	5'-8"	□
u ₁ (E)	3	#4	3'-0"	∩
Concrete Removal			Cu. Yd.	22.8
Concrete Superstructure			Cu. Yd.	22.0
Bar Splicers			Each	24
Reinforcement Bars, Epoxy Coated			Pound	2080

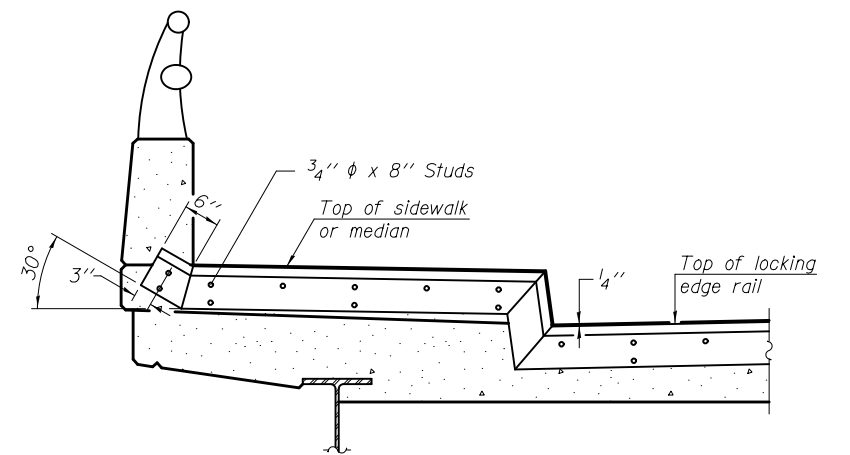
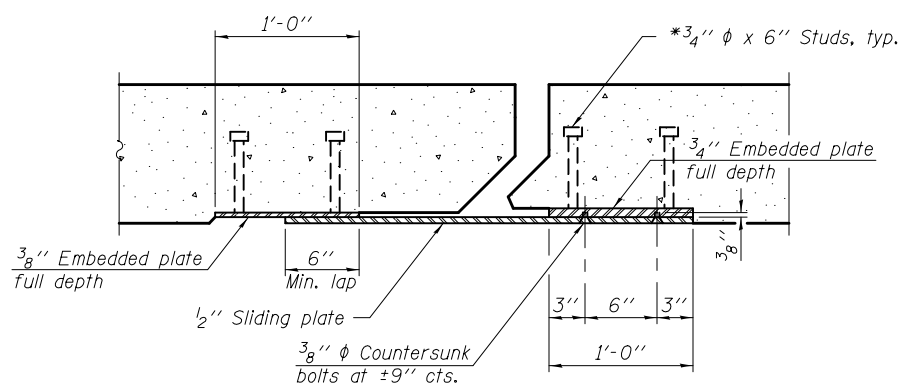
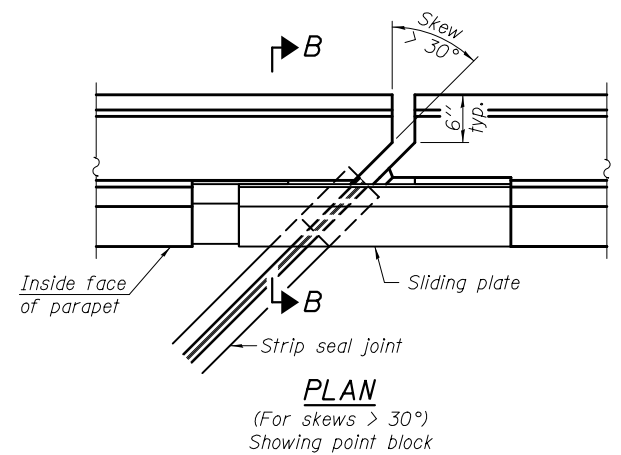
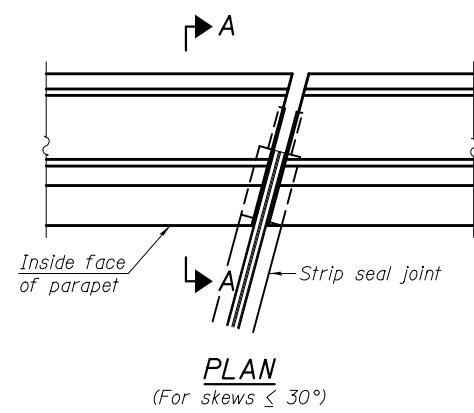
DESIGNED ATH	EXAMINED <i>Timothy A. ...</i>	DATE JANUARY 22, 2014
CHECKED VHV	PASSED <i>...</i>	REVISED
DRAWN Steffen	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED ATH VHV		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

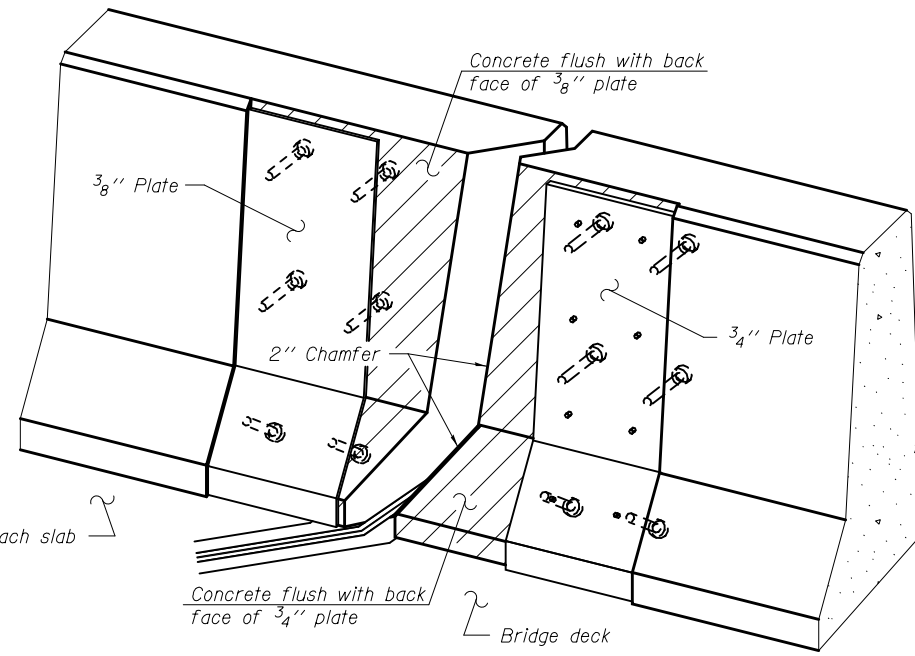
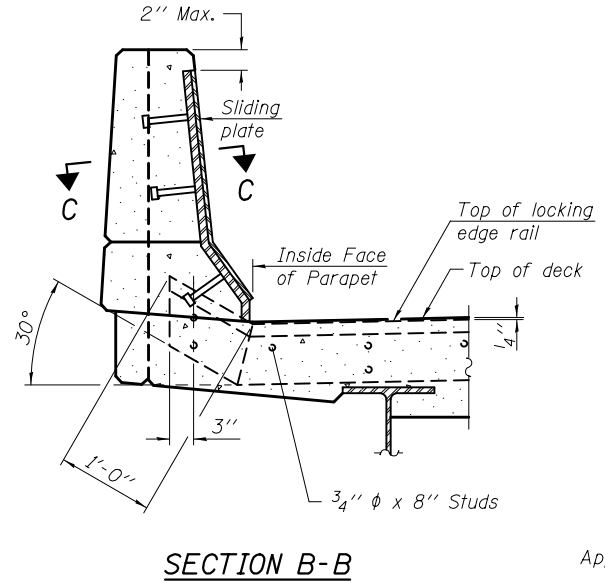
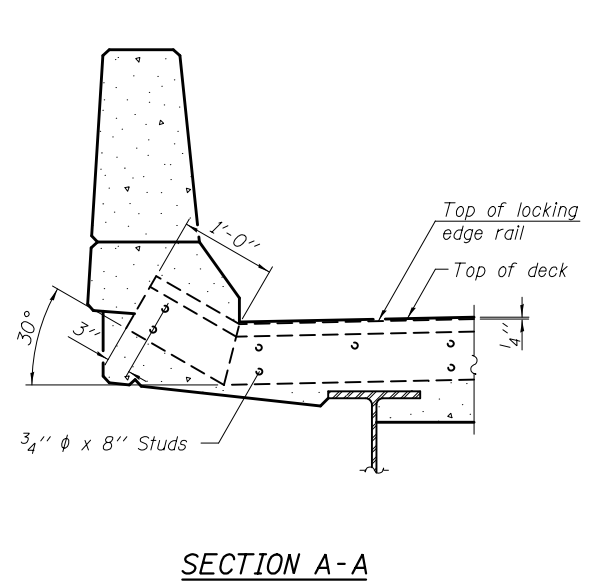
SOUTH ABUTMENT JOINT REMOVAL & REPLACEMENT DETAILS
SN 082-0227

SHEET NO. 5 OF 17 SHEETS

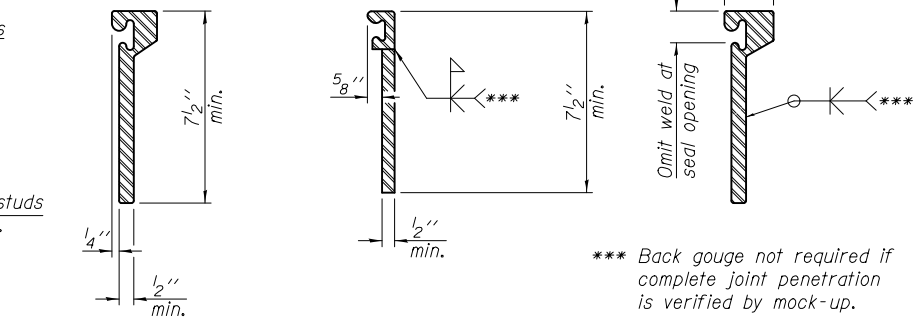
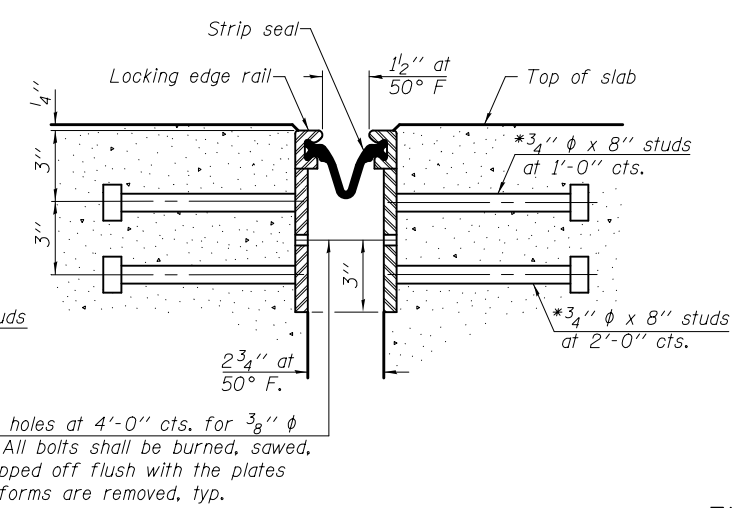
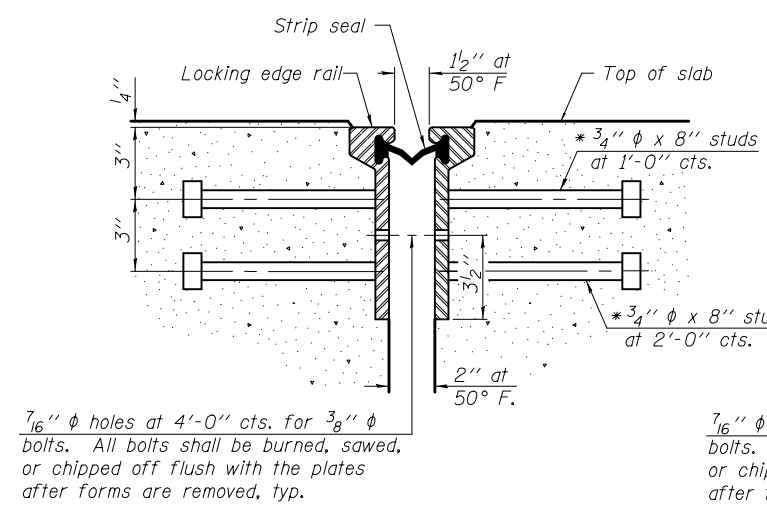
F.A.I. RTE. 255	SECTION 82-4HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 46	SHEET NO. 27
CONTRACT NO. 76D51			ILLINOIS FED. AID PROJECT	



TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN
 Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



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. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 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.
 The manufacturer's recommended installation methods shall be followed.
 The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.
 Parapet plates and anchorage studs for skews > 30 degrees included in the cost of Preformed Joint Strip Seal.



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

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	128

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

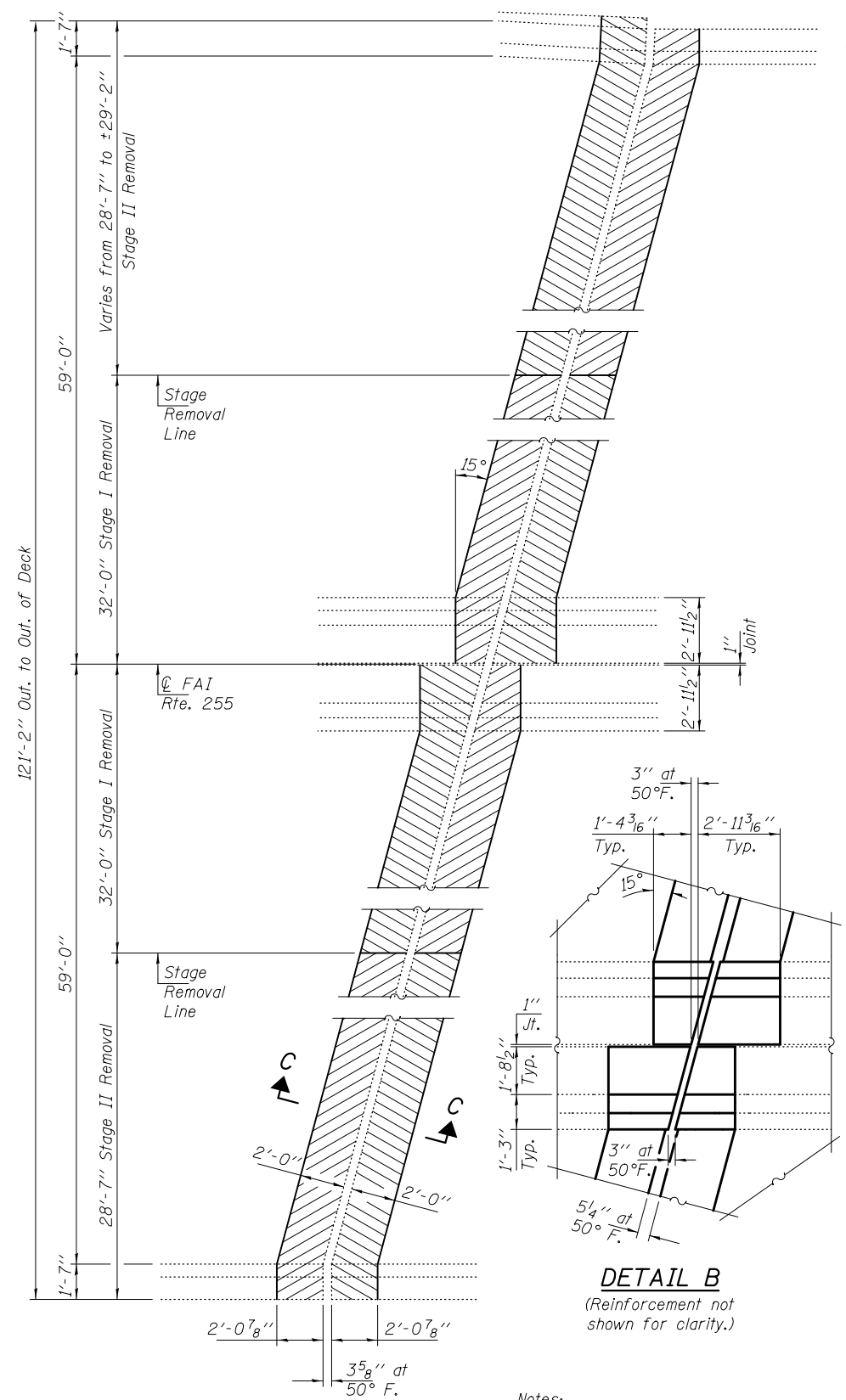
EJ-SSJ 1-27-12

DESIGNED ATH	EXAMINED	DATE JANUARY 22, 2014
CHECKED VHV	PASSED	
DRAWN Steffen		
CHECKED ATH VHV		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

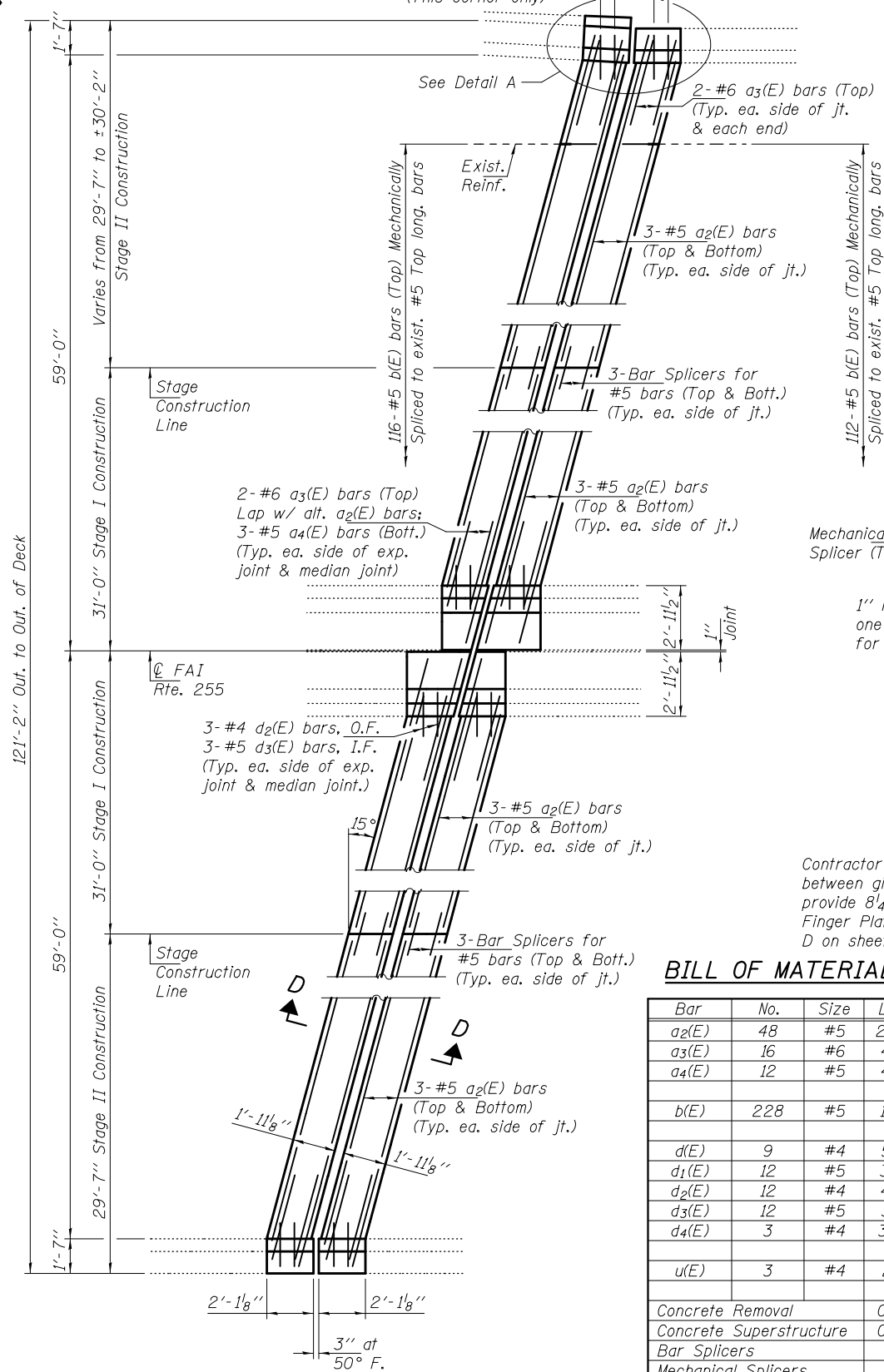
PREFORMED JOINT STRIP SEAL DETAILS
 SN 082-0227

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HB-1	ST. CLAIR	46	28
CONTRACT NO. 76D51				
ILLINOIS FED. AID PROJECT				

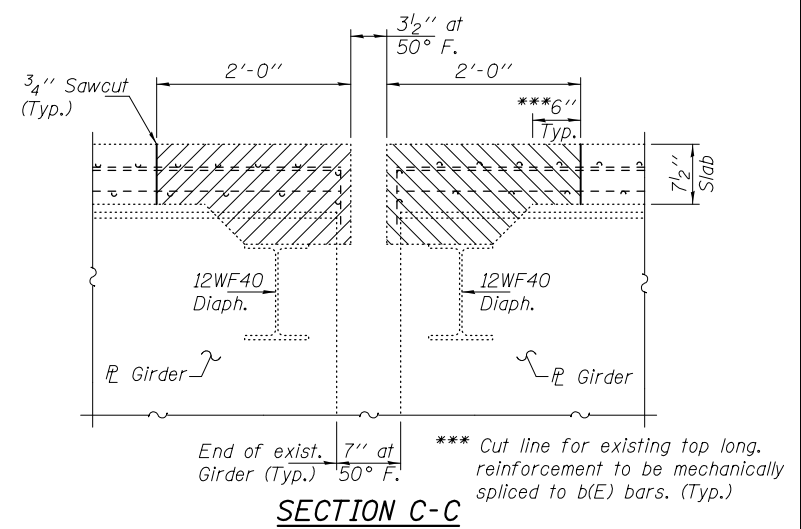


CONCRETE REMOVAL AT PIER 2

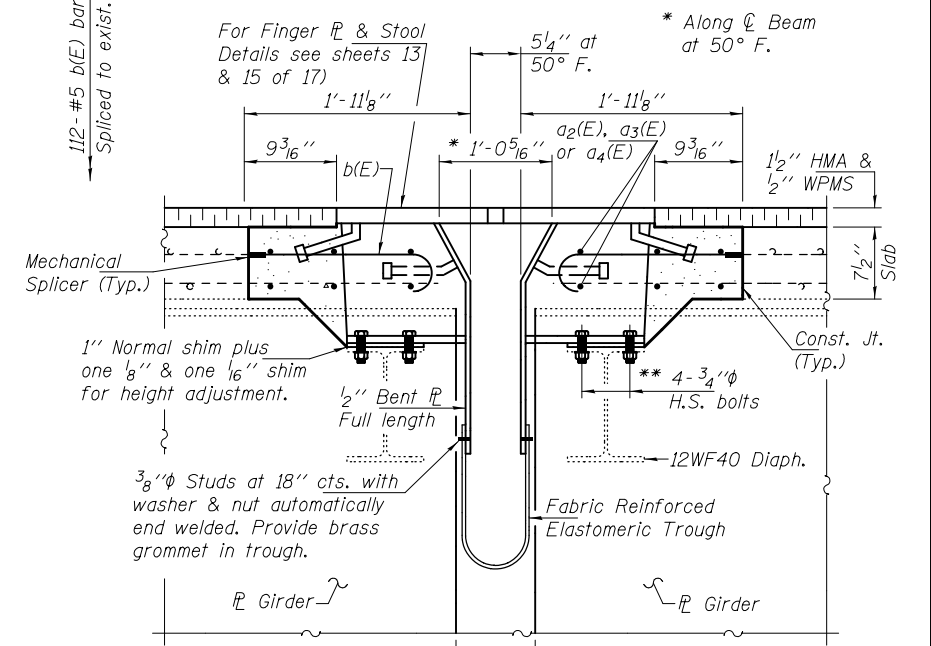
Notes:
Hatched areas indicate concrete removal.
For Reinforcement Details and Parapet
Details see sheet 14 of 17.



CONCRETE REPLACEMENT AT PIER 2



SECTION C-C

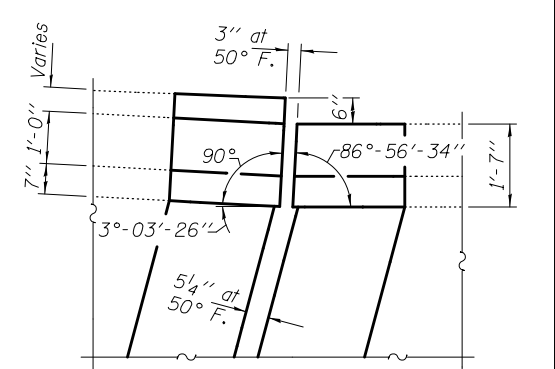


SECTION D-D

BILL OF MATERIAL (PIER 2)

Bar	No.	Size	Length	Shape
a2(E)	48	#5	29'-6"	—
a3(E)	16	#6	4'-0"	—
a4(E)	12	#5	4'-0"	—
b(E)	228	#5	1'-10"	C
d(E)	9	#4	5'-7"	L
d1(E)	12	#5	3'-11"	L
d2(E)	12	#4	4'-4"	L
d3(E)	12	#5	3'-9"	L
d4(E)	3	#4	3'-10"	L
u(E)	3	#4	2'-1"	C
Concrete Removal		Cu. Yd.	24.4	
Concrete Superstructure		Cu. Yd.	23.3	
Bar Splicers		Each	24	
Mechanical Splicers		Each	228	
Finger Exp. Jt., 4 1/2"		Foot	116	
Reinforcement Bars, Epoxy Coated		Pound	2240	

For Trough Details see sheet 8 of 17.



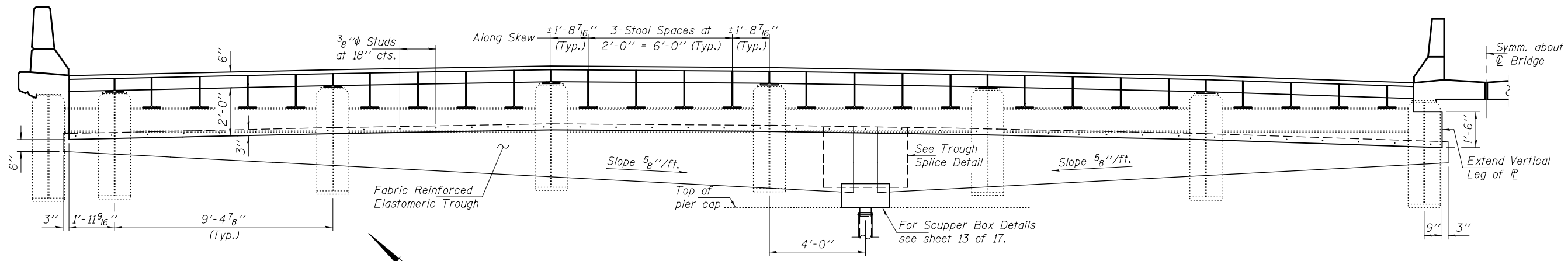
DETAIL A
(Reinforcement not shown for clarity.)

DESIGNED ATH	EXAMINED	DATE JANUARY 22, 2014
CHECKED VHV	PASSED	
DRAWN Steffen		
CHECKED ATH VHV		

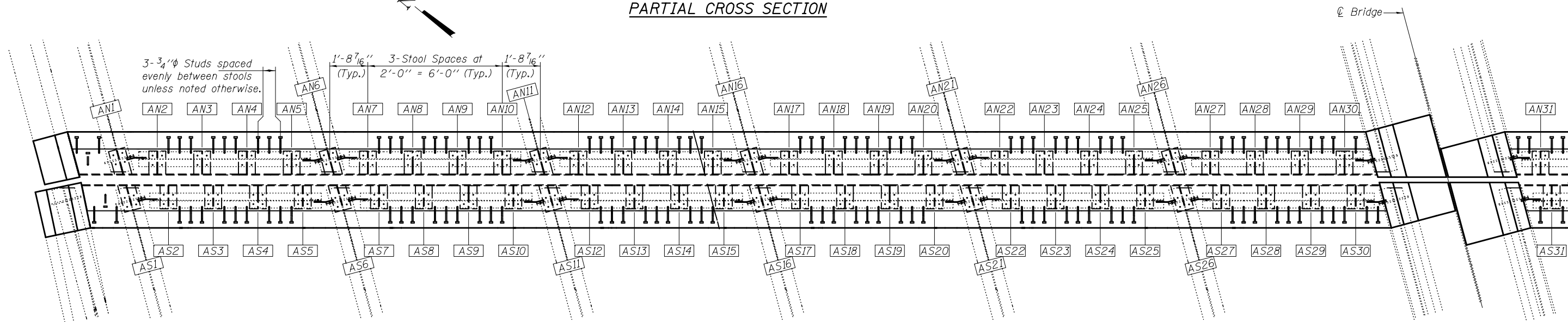
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 JOINT REMOVAL & REPLACEMENT
SN 082-0227
SHEET NO. 7 OF 17 SHEETS

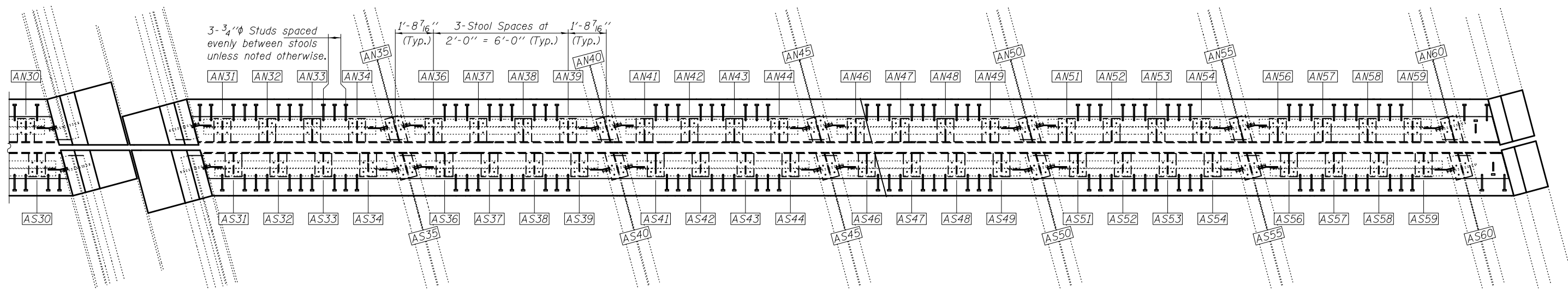
F.A.I. RTE. 255	SECTION 82-4HB-1	COUNTY ST. CLAIR	TOTAL SHEETS 46	SHEET NO. 29
CONTRACT NO. 76D51			ILLINOIS FED. AID PROJECT	



PARTIAL CROSS SECTION



PARTIAL PLAN (PIER 2)



PARTIAL PLAN (PIER 2)

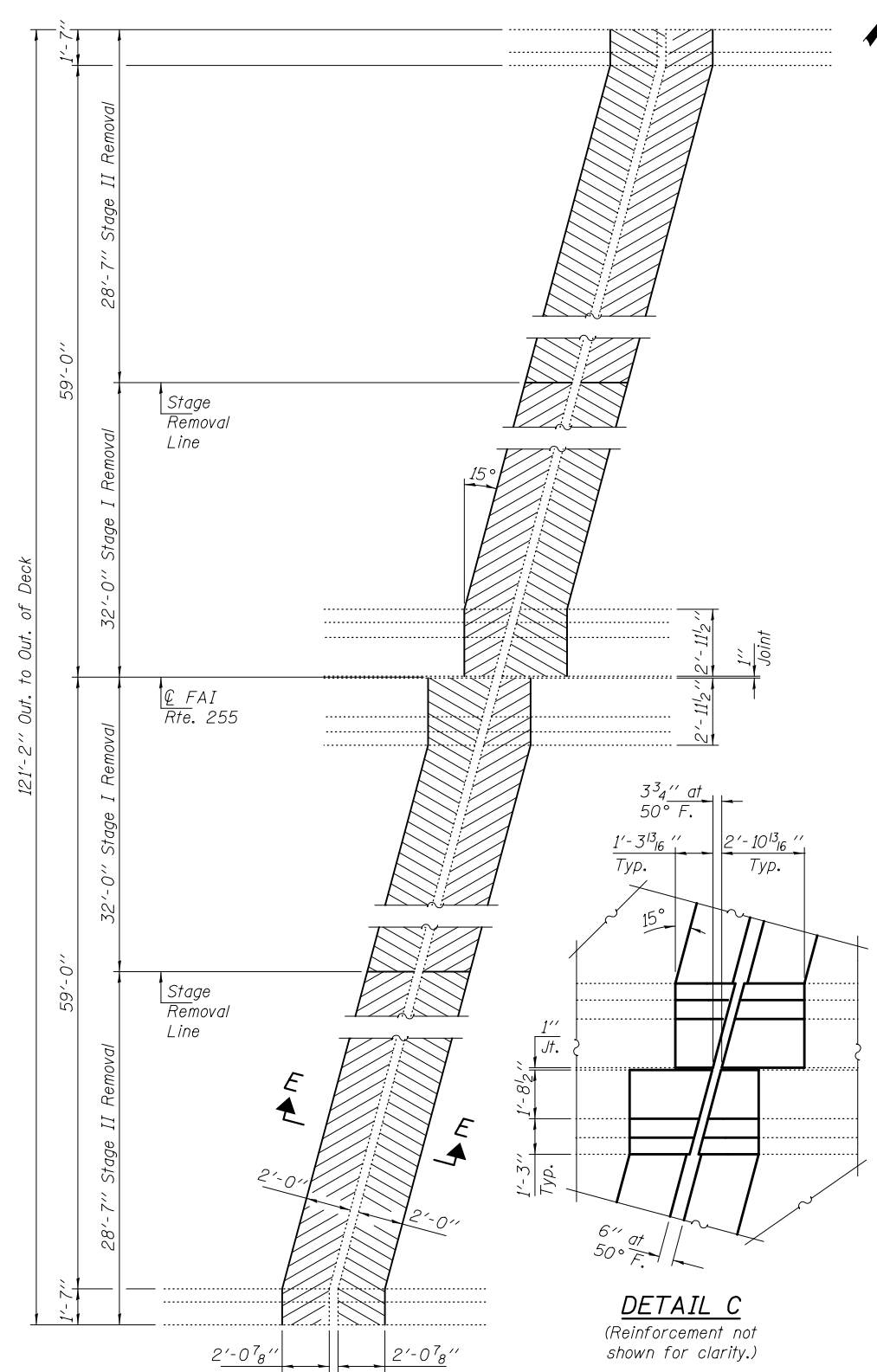
DESIGNED ATH	EXAMINED <i>Timothy A. Anzani</i>	DATE JANUARY 22, 2014
CHECKED VHV	PASSED <i>Carl Pinger</i>	REVISED
DRAWN Steffen	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED ATH VHV		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FINGER PLATE DETAILS AT PIER 2
SN 082-0227

SHEET NO. 8 OF 17 SHEETS

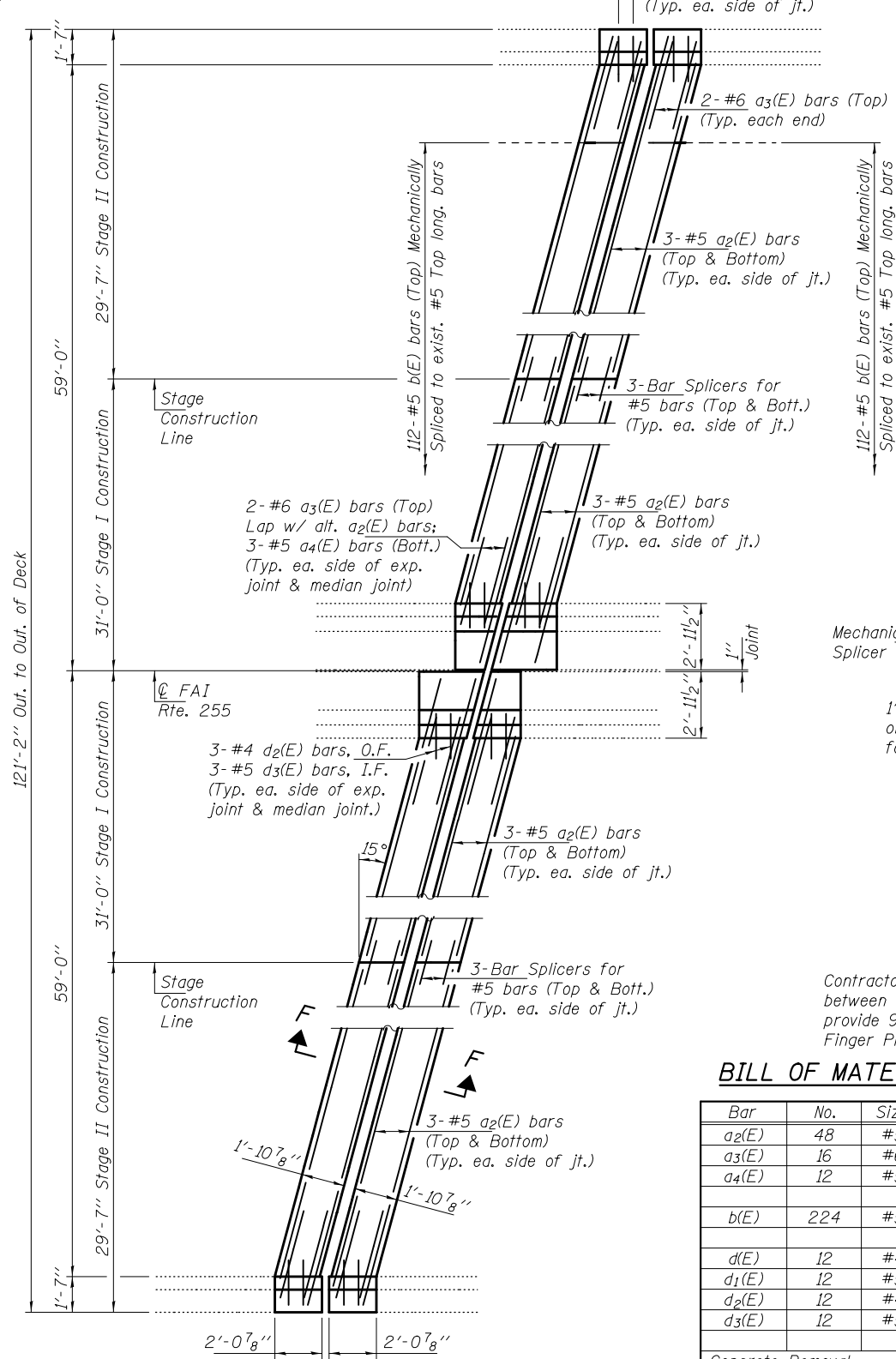
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-1	ST. CLAIR	46	30
CONTRACT NO. 76D51			ILLINOIS FED. AID PROJECT	



CONCRETE REMOVAL AT PIER 6

DETAIL C
(Reinforcement not shown for clarity.)

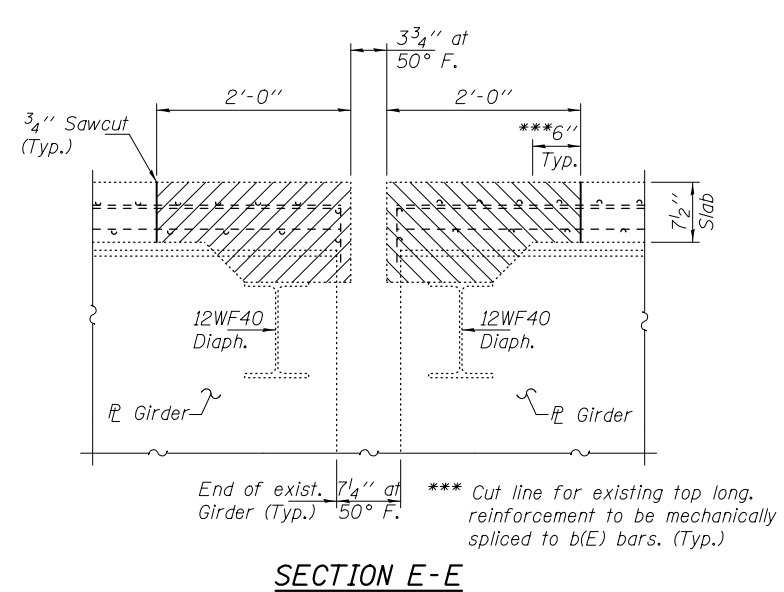
Notes:
Hatched areas indicate concrete removal.
For Reinforcement Details and Parapet
Details see sheet 14 of 17.



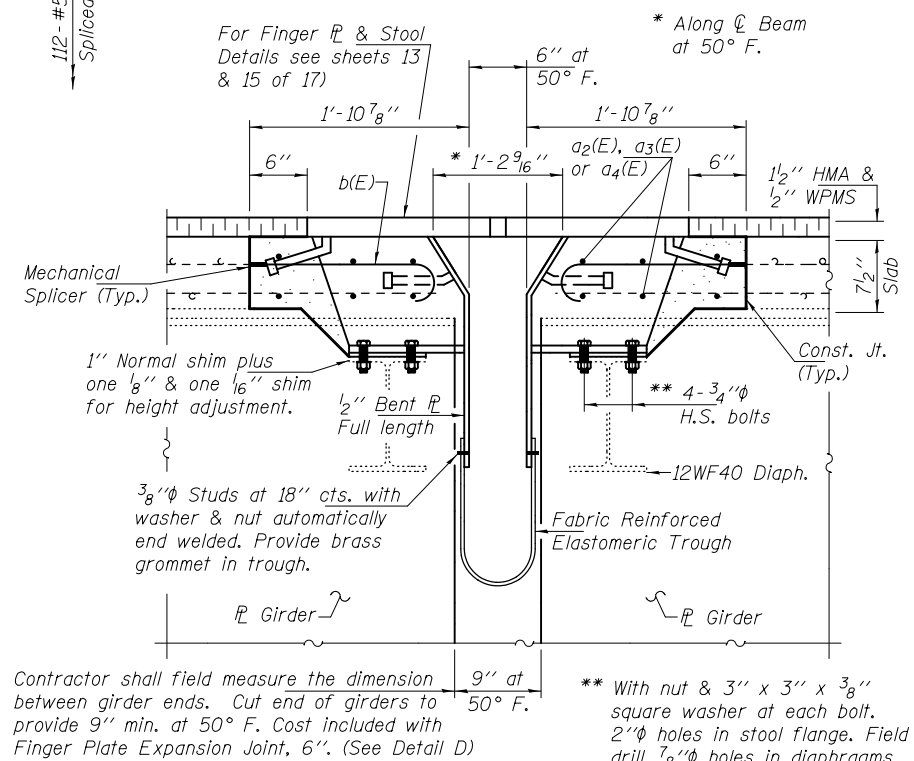
CONCRETE REPLACEMENT AT PIER 6

BILL OF MATERIAL (PIER 6)

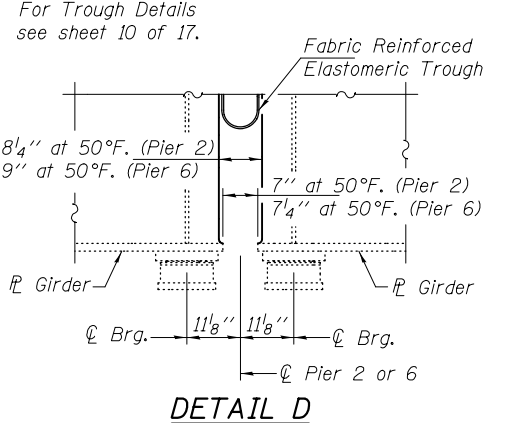
Bar	No.	Size	Length	Shape
a ₂ (E)	48	#5	29'-6"	
a ₃ (E)	16	#6	4'-0"	
a ₄ (E)	12	#5	4'-0"	
b(E)	224	#5	1'-10"	C
d(E)	12	#4	5'-7"	L
d ₁ (E)	12	#5	3'-11"	L
d ₂ (E)	12	#4	4'-4"	L
d ₃ (E)	12	#5	3'-9"	L
Concrete Removal		Cu. Yd.	24.2	
Concrete Superstructure		Cu. Yd.	22.9	
Bar Splicers		Each	24	
Mechanical Splicers		Each	224	
Finger Pl. Exp. Jt., 6"		Foot	116	
Reinforcement Bars, Epoxy Coated		Pound	2230	



SECTION E-E



SECTION F-F



DETAIL D

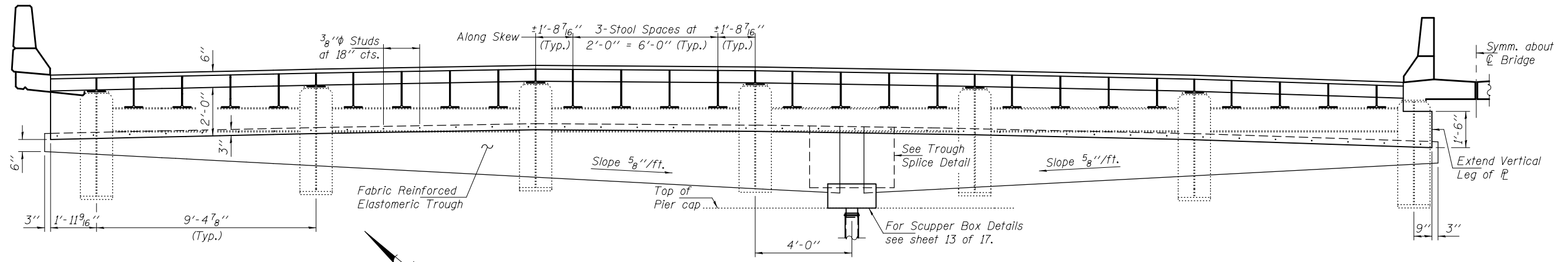
DESIGNED ATH	EXAMINED <i>Timothy A. [Signature]</i>	DATE JANUARY 22, 2014
CHECKED VHV	PASSED <i>[Signature]</i>	REVISED
DRAWN Steffen	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED ATH VHV		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

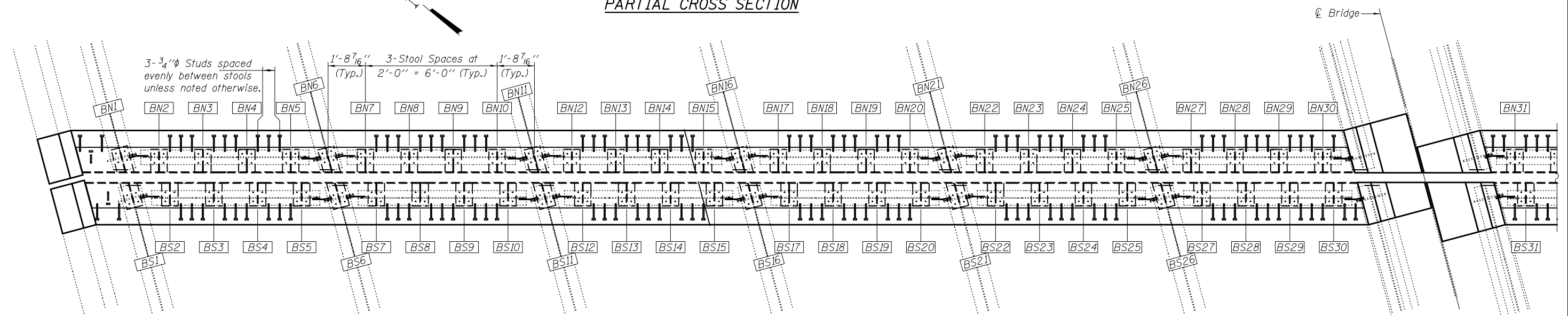
PIER 6 JOINT REMOVAL & REPLACEMENT
SN 082-0227

SHEET NO. 9 OF 17 SHEETS

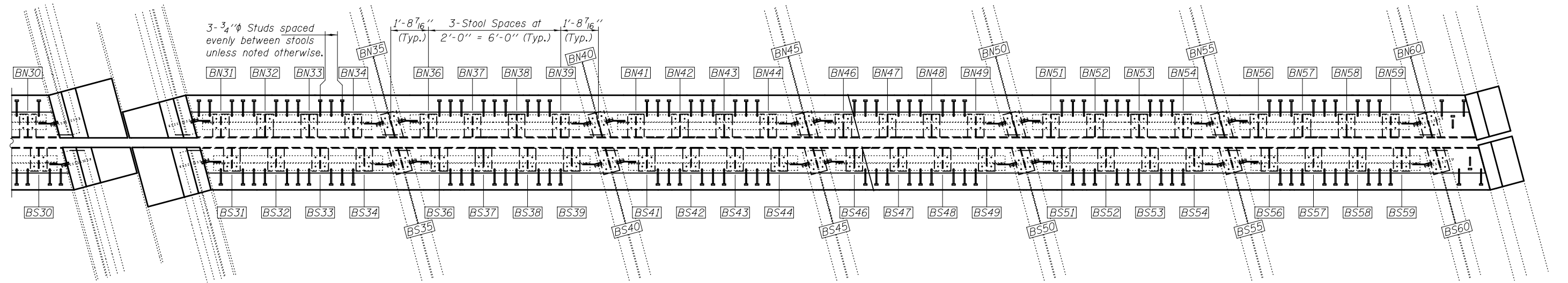
F.A.I. RTE. 255	SECTION 82-4HB-1	COUNTY ST. CLAIR	TOTAL SHEETS 46	SHEET NO. 31
CONTRACT NO. 76D51			ILLINOIS FED. AID PROJECT	



PARTIAL CROSS SECTION



PARTIAL PLAN



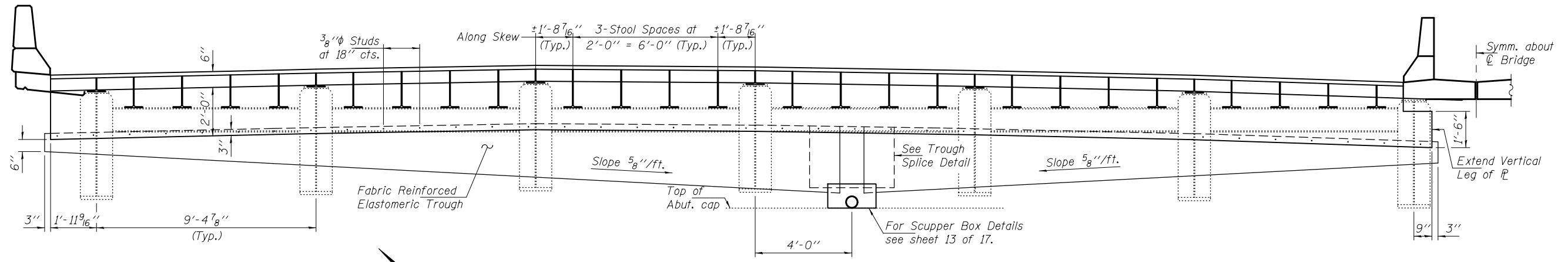
PARTIAL PLAN

DESIGNED <i>ATH</i>	EXAMINED <i>Timothy A. [Signature]</i>	DATE <i>JANUARY 22, 2014</i>
CHECKED <i>VHV</i>	PASSED <i>[Signature]</i>	REVISIONS
DRAWN <i>Steffen</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES	
CHECKED <i>ATH VHV</i>		

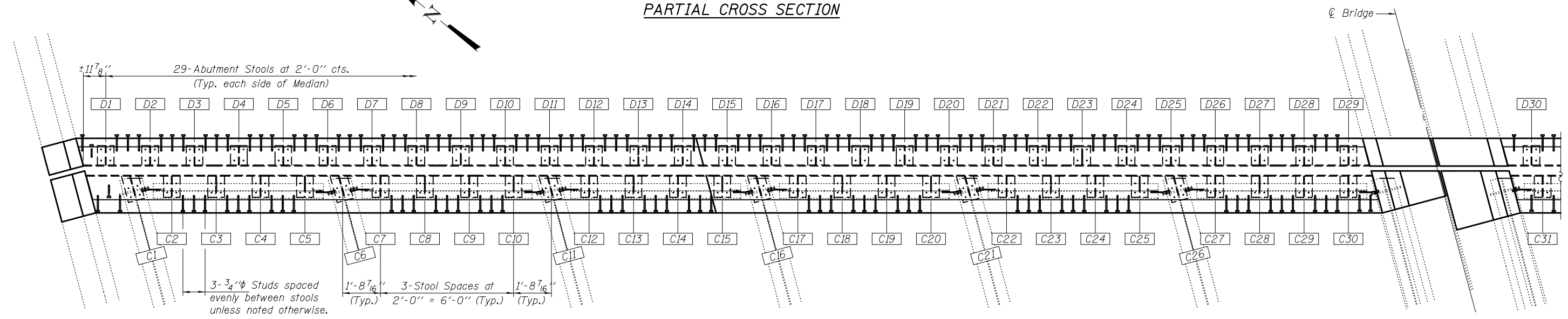
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FINGER PLATE DETAILS AT PIER 6
SN 082-0227**

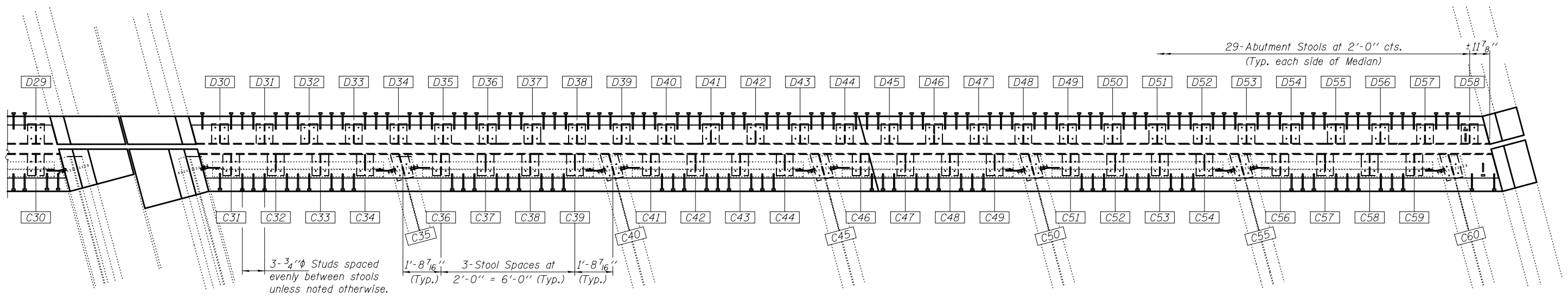
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-1	ST. CLAIR	46	32
CONTRACT NO. 76D51				
ILLINOIS FED. AID PROJECT				



PARTIAL CROSS SECTION

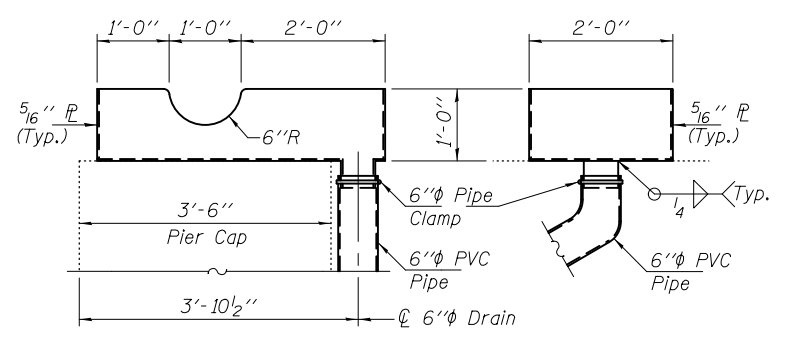


PARTIAL PLAN

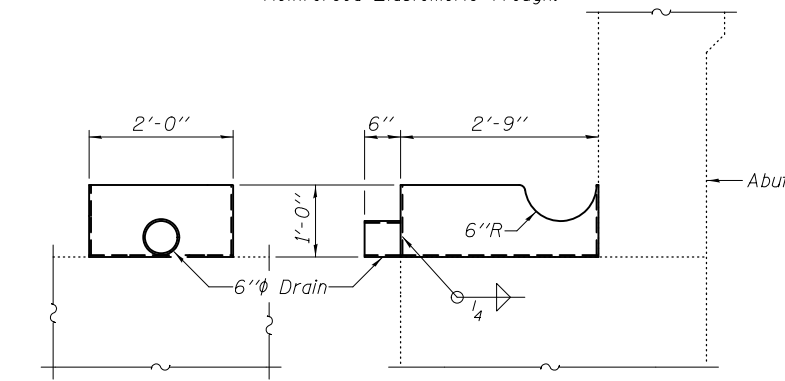


PARTIAL PLAN

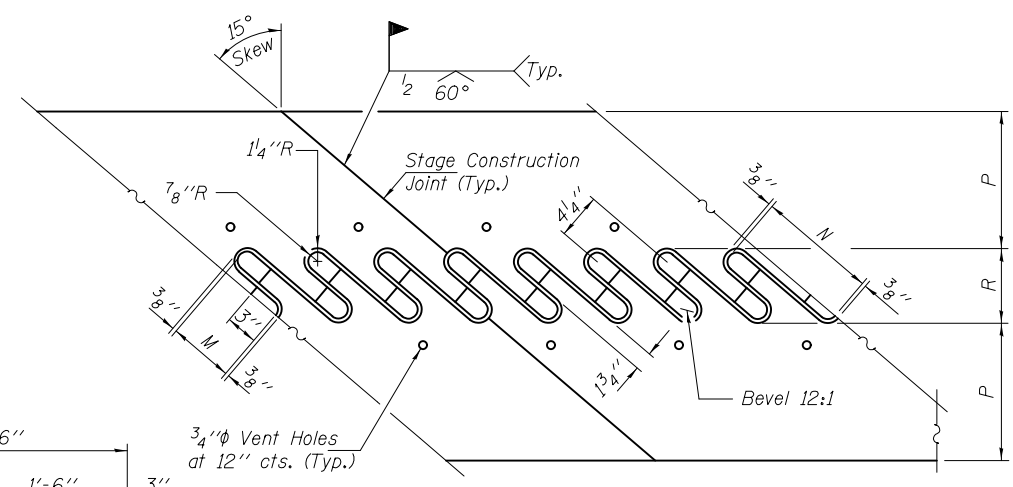
DESIGNED <i>ATH</i>	EXAMINED <i>Timothy A. [Signature]</i>	DATE <i>JANUARY 22, 2014</i>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FINGER PLATE DETAILS AT NORTH ABUTMENT SN 082-0227	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED <i>VHV</i>	PASSED <i>[Signature]</i>	REVISED			255	82-4HV8-1	ST. CLAIR	46	34	
DRAWN <i>Steffen</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED			CONTRACT NO. 76D51					
CHECKED <i>ATH VHV</i>	ACTING ENGINEER OF STRUCTURAL SERVICES	REVISED			SHEET NO. 12 OF 17 SHEETS					
					ILLINOIS FED. AID PROJECT					



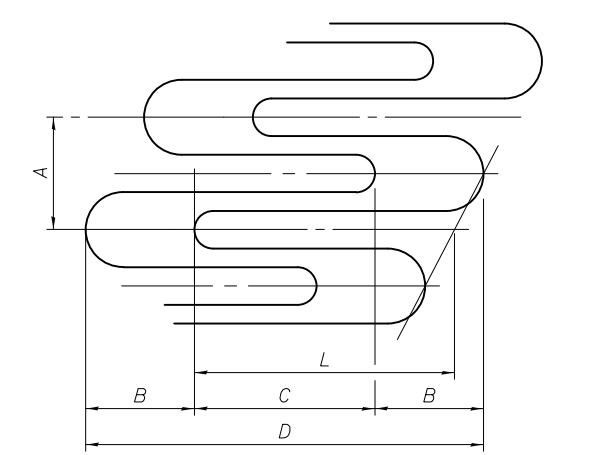
SCUPPER BOX AT PIERS 2 & 6
 Cost included with cost of Fabric Reinforced Elastomeric Trough.



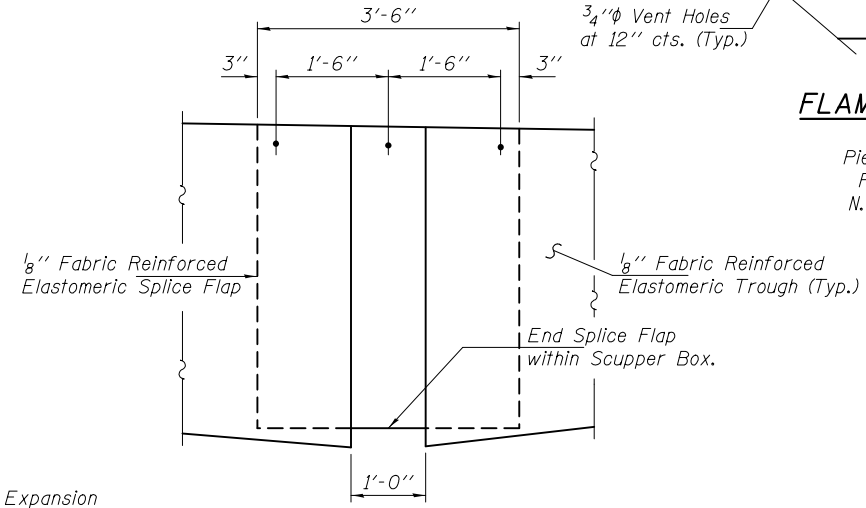
SCUPPER BOX AT NORTH ABUTMENT
 Cost included with cost of Fabric Reinforced Elastomeric Trough.



FLAME CUTTING DIAGRAM
 Cut From
 Pier 2 \bar{R} 1 5/8" x 2'-6 1/2"
 Pier 6 \bar{R} 2" x 3'-0"
 N. Abut \bar{R} 1 1/2" x 2'-5"



JOINT OPENING AND GEOMETRY DETAIL



TROUGH SPLICE DETAIL
 (Scupper Box not shown for clarity)

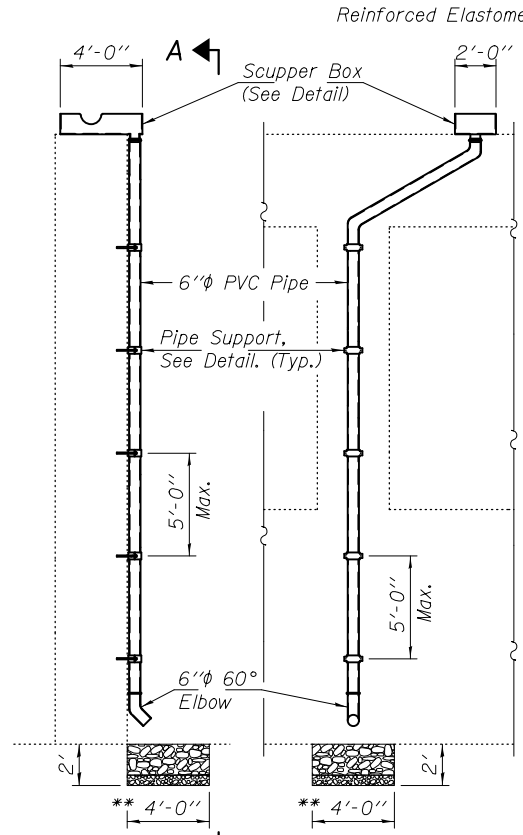
FINGER PLATE TABLE OF DIMENSIONS

Location	A	B	C	D	L	M	N	P	R
Pier 2	4 1/4"	3"	5 1/6"	11 1/6"	7 1/2"	6 9/16"	7 1/6"	11 3/8"	7 3/4"
Pier 6	4 1/4"	3 3/4"	5 13/16"	1'-1 5/16"	9"	8 1/6"	9 3/16"	1'-1 7/16"	9 1/8"
N. Abut.	4 1/4"	2 3/4"	4 13/16"	10 5/16"	7"	6 1/6"	7 3/16"	10 7/8"	7 1/4"

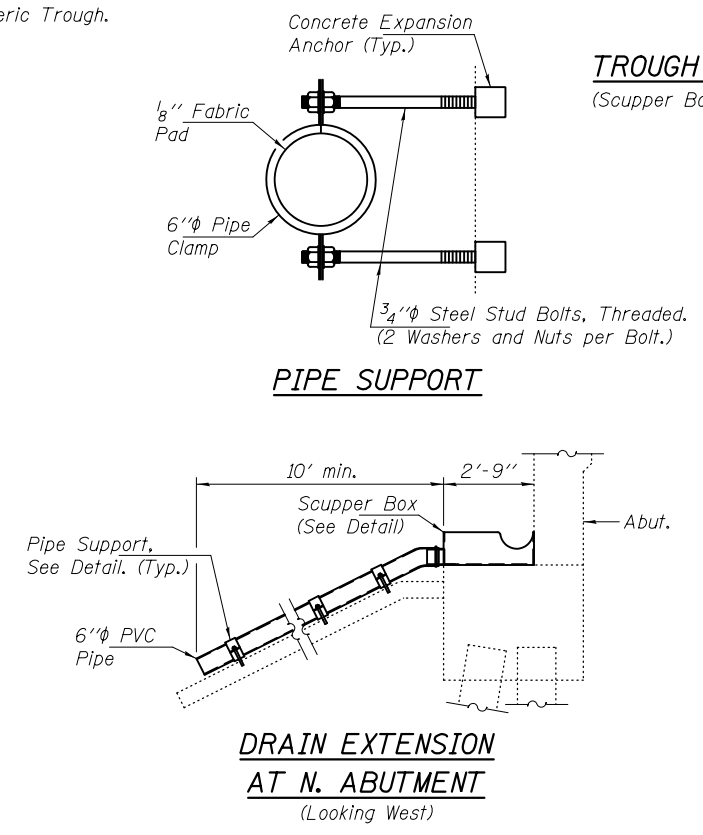
DIM. "X"

Span	"X"
2	4 1/2"
3	2 11/16"
6	2 5/8"
7	2 5/8"
11	9 1/6"

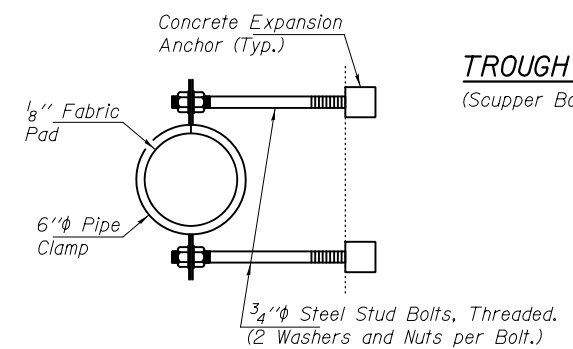
* Location of Shim \bar{R} 's may vary. Trim top and bottom existing Bent \bar{R} 's flush with the end of existing W12x40. Realign diaphragms along centerline bearing.



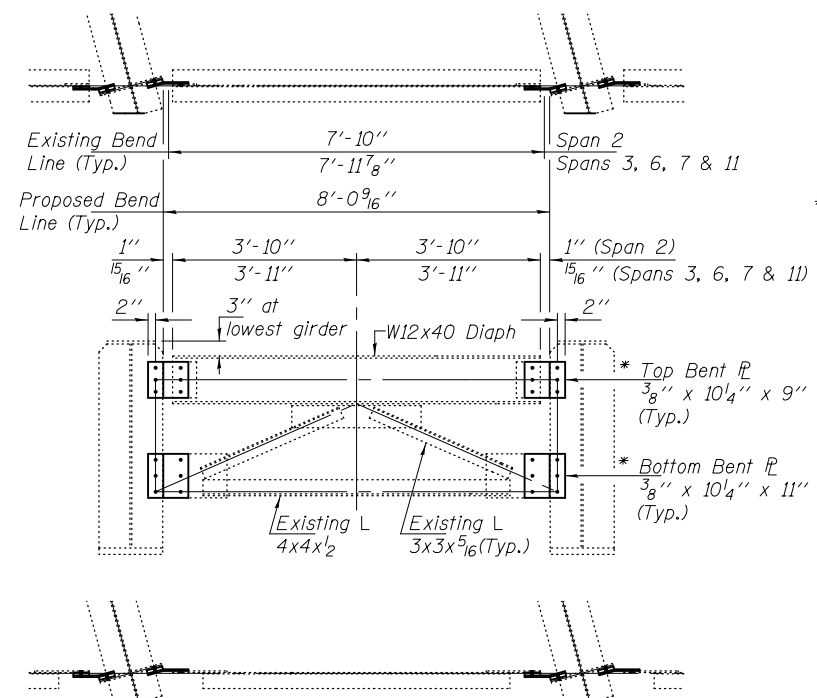
DRAIN EXTENSION AT PIERS 2 & 6
 (Looking West)



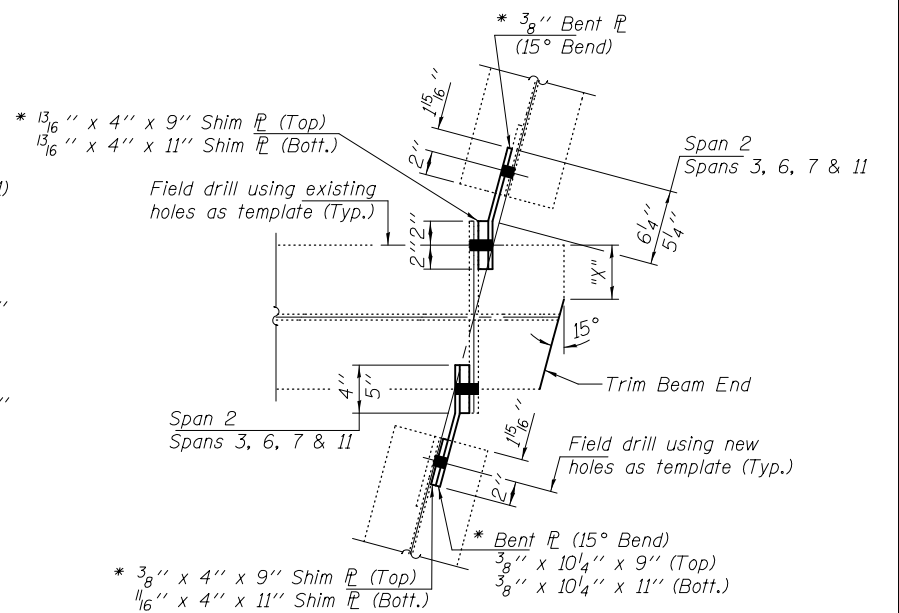
DRAIN EXTENSION AT N. ABUTMENT
 (Looking West)
 ** 4' x 4' area of 18" RR3 riprap pad with 6" CA-7 bedding. Cost of riprap pad and excavation is included with the cost of Fabric Reinforced Elastomeric Trough.



PIPE SUPPORT

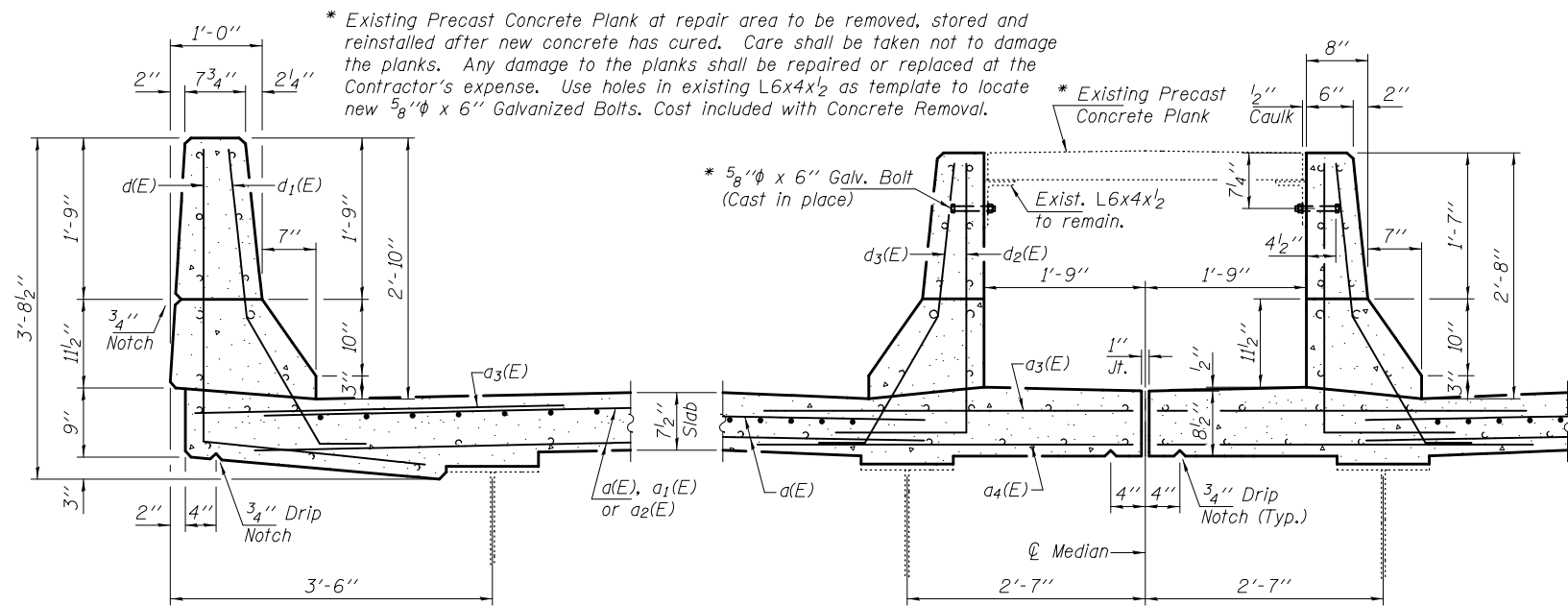


CROSS FRAME CONNECTION DETAILS



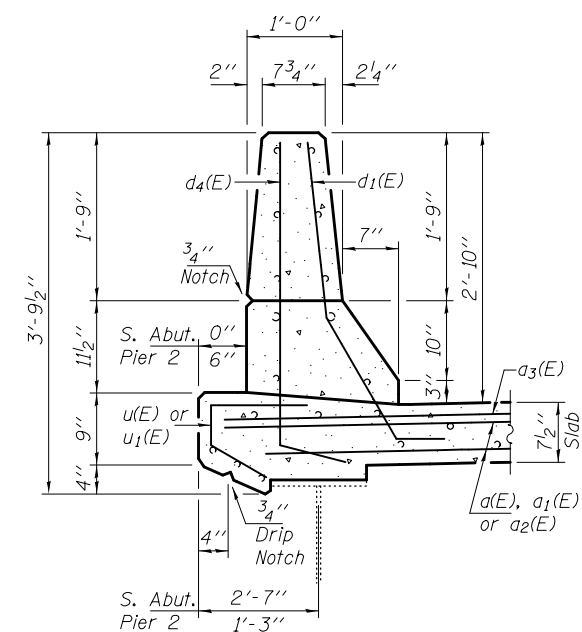
TYPICAL DIAPHRAGM CONNECTION

Diaphragm connection holes shall be 1 5/16" ϕ for 7/8" ϕ bolts. Two hardened washers shall be required at diaphragm connections.

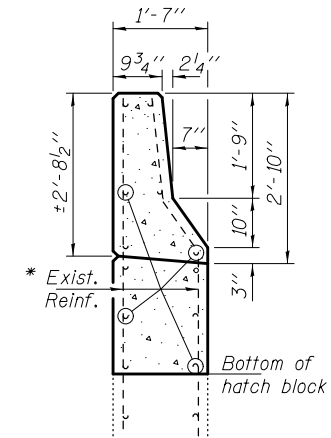


TYPICAL SECTION THRU EXTERIOR PARAPET

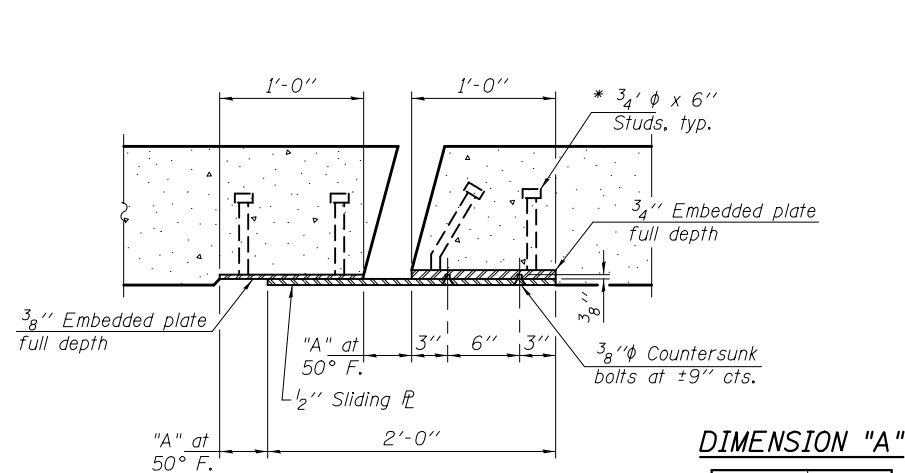
SECTION THRU BRIDGE MEDIAN



SECTION THRU EXTERIOR PARAPET AT S. ABUT. & PIER 2, SPAN 2, WEST END



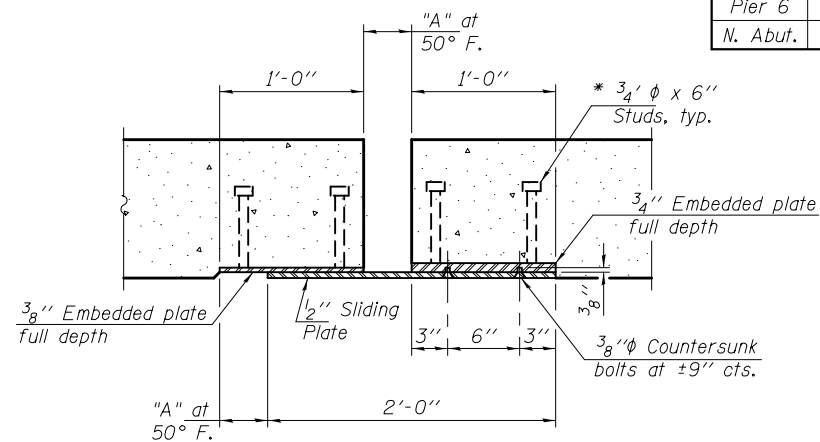
TYPICAL SECTION AT APPROACH PARAPET



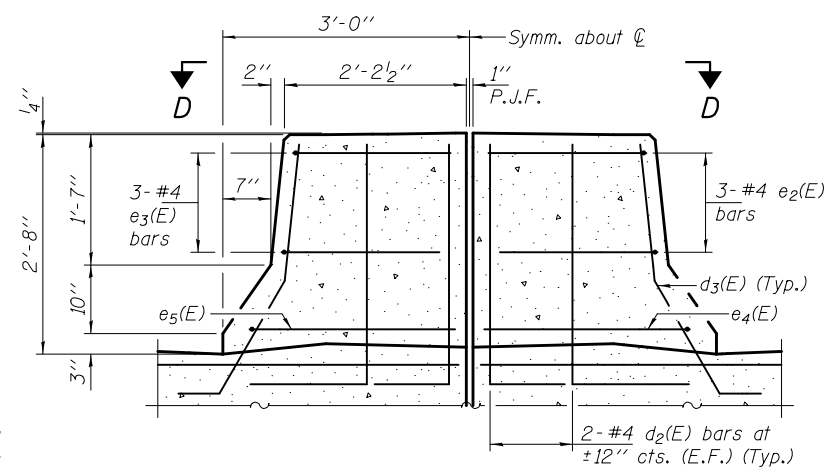
MEDIAN SLIDING PLATE DETAIL

DIMENSION "A"

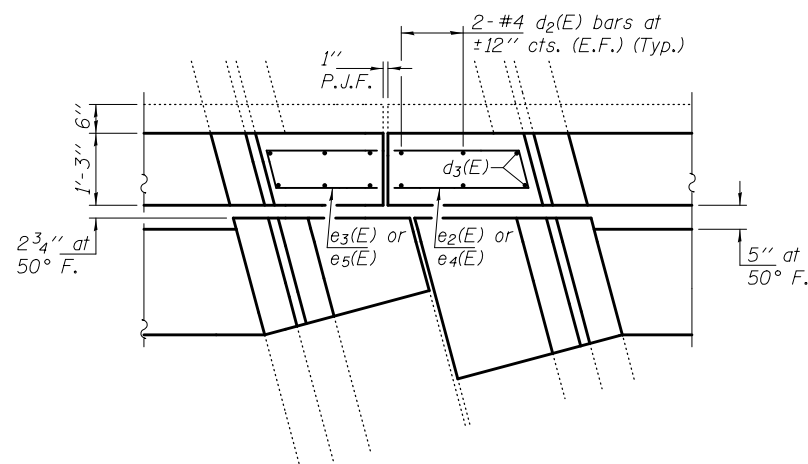
Location	"A"
Pier 2	3"
Pier 6	3 3/4"
N. Abut.	2 3/4"



OUTSIDE PARAPET SLIDING PLATE DETAIL

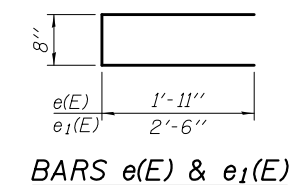


SECTION THRU N. ABUT. MEDIAN

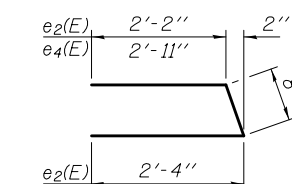


VIEW D-D

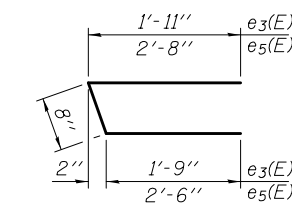
Bridge Deck Reinforcement not shown for clarity.



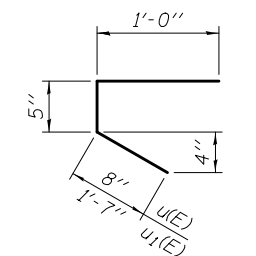
BARS e(E) & e1(E)



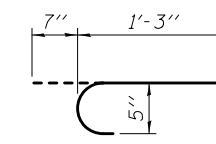
BARS e2(E) & e4(E)



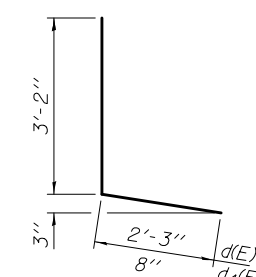
BARS e3(E) & e5(E)



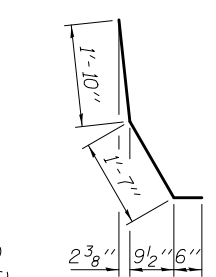
BAR u(E) & u1(E)



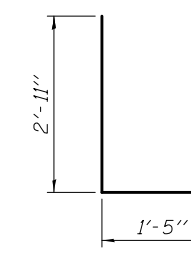
BAR b(E)



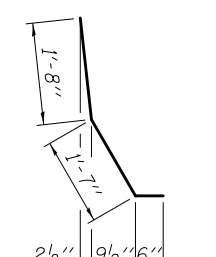
BARS d(E) & d4(E)



BAR d1(E)



BAR d2(E)



BAR d3(E)

DESIGNED ATH
CHECKED VHV
DRAWN Steffen
CHECKED ATH VHV

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

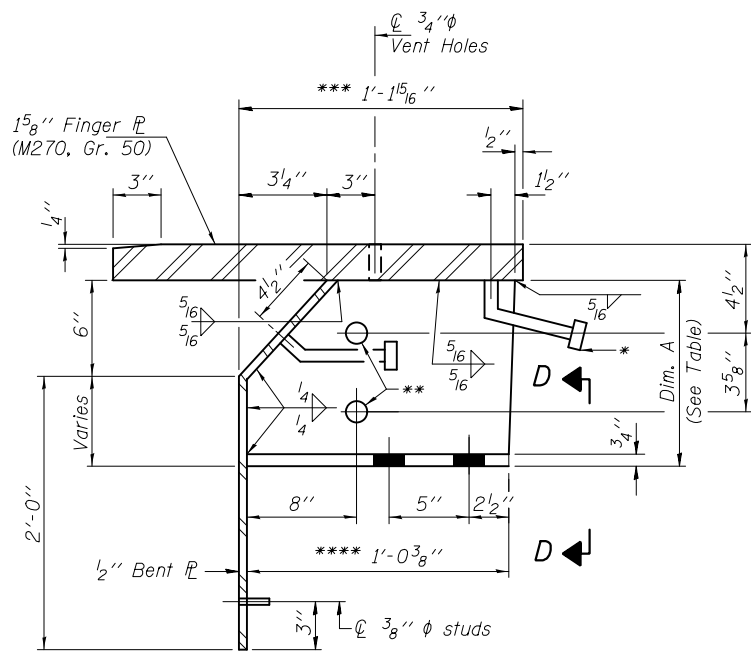
DATE JANUARY 22, 2014
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 082-0227

SHEET NO. 14 OF 17 SHEETS

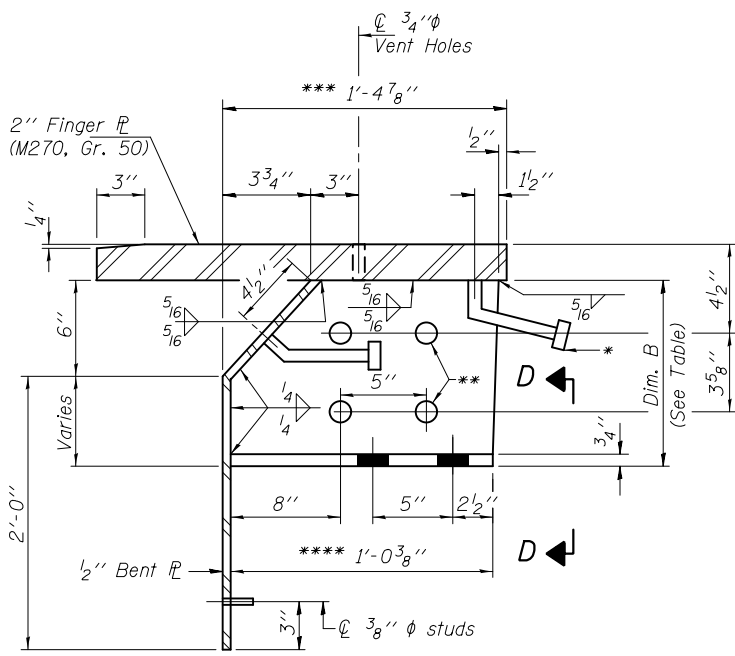
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HYB-1	ST. CLAIR	46	36
CONTRACT NO. 76D51				
ILLINOIS FED. AID PROJECT				



STOOL "A" DETAILS AT PIER 2

DIMENSION "A" AT PIER 2

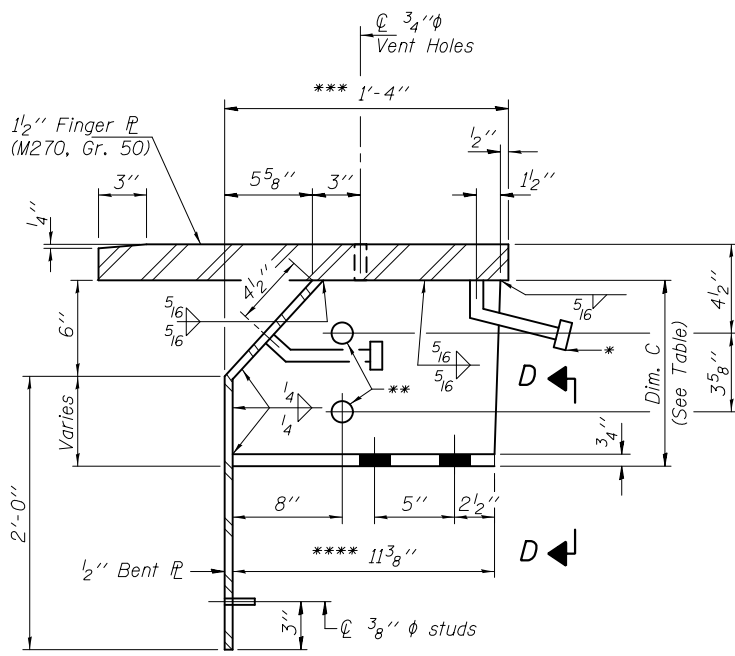
Stool No.	Dim. A	Stool No.	Dim. A	Stool No.	Dim. A	Stool No.	Dim. A
AS1	7 5/8"	AS31	11 1/2"	AN1	7 3/8"	AN31	11 1/4"
AS2	17 7/16"	AS32	12 7/16"	AN2	17 5/16"	AN32	12 3/16"
AS3	17 7/8"	AS33	13 3/8"	AN3	17 13/16"	AN33	13 3/16"
AS4	18 3/8"	AS34	14 3/8"	AN4	18 1/4"	AN34	14 1/8"
AS5	18 7/8"	AS35	7 7/16"	AN5	18 3/4"	AN35	7 3/8"
AS6	7 1/2"	AS36	15 5/16"	AN6	7 7/16"	AN36	15 1/16"
AS7	19 1/2"	AS37	16 3/8"	AN7	19 3/8"	AN37	16 3/16"
AS8	19 7/8"	AS38	16 7/8"	AN8	19 3/4"	AN38	16 5/8"
AS9	20 1/4"	AS39	17 5/16"	AN9	20 1/8"	AN39	17 1/8"
AS10	20 9/16"	AS40	7 1/2"	AN10	20 1/2"	AN40	7 7/16"
AS11	7 1/2"	AS41	18 1/8"	AN11	7 7/16"	AN41	17 5/16"
AS12	21 3/16"	AS42	18 5/8"	AN12	21 1/16"	AN42	18 7/16"
AS13	20 5/16"	AS43	19"	AN13	20 3/16"	AN43	18 13/16"
AS14	20 9/16"	AS44	19 3/8"	AN14	20 7/16"	AN44	19 3/16"
AS15	20 3/16"	AS45	7 1/2"	AN15	20 1/16"	AN45	7 7/16"
AS16	7 9/16"	AS46	20"	AN16	7 3/8"	AN46	19 3/4"
AS17	19 9/16"	AS47	20 5/16"	AN17	19 7/16"	AN47	20 1/8"
AS18	19 3/16"	AS48	20 1/16"	AN18	19 1/16"	AN48	20 2"
AS19	18 3/4"	AS49	20 5/16"	AN19	18 1/16"	AN49	20 3/4"
AS20	18 5/16"	AS50	7 1/2"	AN20	18 13/16"	AN50	7 7/16"
AS21	7 1/2"	AS51	20 5/16"	AN21	7 7/16"	AN51	20 1/8"
AS22	17 7/16"	AS52	19 5/16"	AN22	17 3/8"	AN52	19 3/4"
AS23	17"	AS53	19 9/16"	AN23	16 7/8"	AN53	19 3/8"
AS24	16 1/2"	AS54	19 3/16"	AN24	16 3/8"	AN54	19"
AS25	16"	AS55	7 7/16"	AN25	15 7/8"	AN55	7 3/8"
AS26	7 1/2"	AS56	18 9/16"	AN26	7 5/16"	AN56	18 5/16"
AS27	14 7/16"	AS57	18 1/16"	AN27	14 5/16"	AN57	17 13/16"
AS28	13 7/16"	AS58	17 9/16"	AN28	13 3/8"	AN58	17 5/16"
AS29	12 1/2"	AS59	17 1/16"	AN29	12 3/8"	AN59	16 7/8"
AS30	11 1/2"	AS60	7 5/8"	AN30	11 3/8"	AN60	7 3/8"



STOOL "B" DETAILS AT PIER 6

DIMENSION "B" AT PIER 6

Stool No.	Dim. B	Stool No.	Dim. B	Stool No.	Dim. B	Stool No.	Dim. B
BS1	7 3/16"	BS31	11 1/8"	BN1	7"	BN31	11"
BS2	15 9/16"	BS32	12 1/8"	BN2	15 7/16"	BN32	12"
BS3	16 1/8"	BS33	13 1/8"	BN3	15 5/16"	BN33	13"
BS4	16 5/8"	BS34	14 3/16"	BN4	16 1/2"	BN34	14"
BS5	17 3/16"	BS35	7 3/16"	BN5	17"	BN35	7 1/16"
BS6	7 1/16"	BS36	15 13/16"	BN6	7 1/16"	BN36	15 5/8"
BS7	17 7/8"	BS37	16 5/16"	BN7	17 3/4"	BN37	16 3/16"
BS8	18 5/16"	BS38	16 7/8"	BN8	18 1/8"	BN38	16 11/16"
BS9	18 1/16"	BS39	17 3/8"	BN9	18 9/16"	BN39	17 1/4"
BS10	19 1/8"	BS40	7 8"	BN10	18 5/16"	BN40	6 5/16"
BS11	7 3/16"	BS41	18 1/4"	BN11	7"	BN41	18 1/8"
BS12	19 3/16"	BS42	18 13/16"	BN12	19 5/8"	BN42	18 5/8"
BS13	19 9/16"	BS43	19 1/4"	BN13	19 7/16"	BN43	19 1/16"
BS14	19 1/4"	BS44	19 5/8"	BN14	19 1/8"	BN44	19 1/2"
BS15	18 5/16"	BS45	7 1/8"	BN15	18 13/16"	BN45	6 5/16"
BS16	7 1/8"	BS46	20 5/16"	BN16	6 5/16"	BN46	20 3/16"
BS17	18 7/16"	BS47	20 3/4"	BN17	18 1/4"	BN47	20 9/16"
BS18	18 1/16"	BS48	21 1/8"	BN18	17 5/16"	BN48	21"
BS19	17 3/4"	BS49	21 7/16"	BN19	17 9/16"	BN49	21 5/16"
BS20	17 5/16"	BS50	7 1/16"	BN20	17 1/8"	BN50	7 1/16"
BS21	7 1/4"	BS51	20 7/8"	BN21	7"	BN51	20 3/4"
BS22	16 9/16"	BS52	20 9/16"	BN22	16 3/8"	BN52	20 7/16"
BS23	16 1/8"	BS53	20 1/4"	BN23	15 5/16"	BN53	20 1/8"
BS24	15 11/16"	BS54	19 5/16"	BN24	15 1/2"	BN54	19 3/4"
BS25	15 1/4"	BS55	7 1/8"	BN25	15 1/16"	BN55	7"
BS26	7 1/4"	BS56	19 5/16"	BN26	7"	BN56	19 3/16"
BS27	13 3/4"	BS57	18 7/8"	BN27	13 9/16"	BN57	18 3/4"
BS28	12 13/16"	BS58	18 7/16"	BN28	12 5/8"	BN58	18 5/16"
BS29	11 7/8"	BS59	18"	BN29	11 3/4"	BN59	17 3/4"
BS30	10 5/16"	BS60	7 7/16"	BN30	10 13/16"	BN60	7 1/8"



STOOL "C" DETAILS AT N. ABUT.

DIMENSION "C" AT N. ABUT.

Stool No.	Dim. C	Stool No.	Dim. C
C1	7 7/16"	C31	11 5/8"
C2	14 5/16"	C32	12 3/4"
C3	14 15/16"	C33	13 13/16"
C4	15 1/2"	C34	14 7/8"
C5	16 1/16"	C35	7 7/16"
C6	7 2"	C36	16 9/16"
C7	16 7/8"	C37	17 3/16"
C8	17 3/8"	C38	17 3/4"
C9	17 13/16"	C39	18 5/16"
C10	18 5/16"	C40	7 1/2"
C11	7 1/2"	C41	19 5/16"
C12	19 1/16"	C42	19 15/16"
C13	18 15/16"	C43	20 7/16"
C14	18 11/16"	C44	20 7/8"
C15	18 3/8"	C45	7 9/16"
C16	7 7/16"	C46	21 1/16"
C17	17 5/16"	C47	22 1/8"
C18	17 1/16"	C48	22 9/16"
C19	17 3/8"	C49	22 5/16"
C20	17"	C50	7 1/16"
C21	7 9/16"	C51	22 1/2"
C22	16 3/8"	C52	22 1/4"
C23	16"	C53	21 5/16"
C24	15 9/16"	C54	21 1/16"
C25	15 3/16"	C55	7 1/2"
C26	7 1/16"	C56	21 3/16"
C27	13 13/16"	C57	20 13/16"
C28	12 5/16"	C58	20 7/16"
C29	12 1/16"	C59	20 1/16"
C30	11 3/16"	C60	7 7/16"

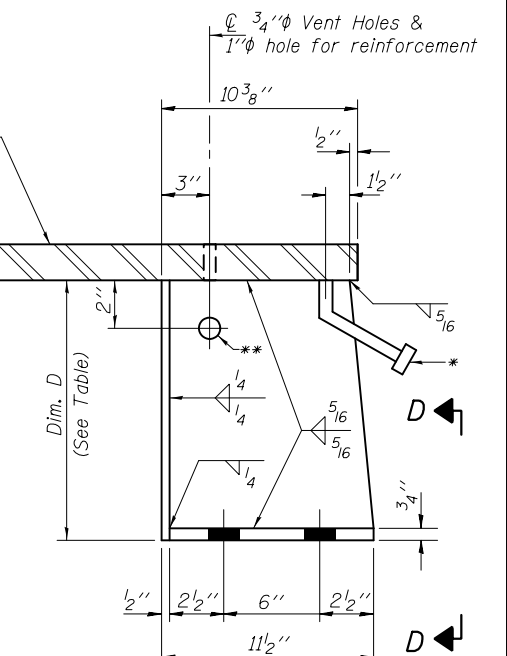
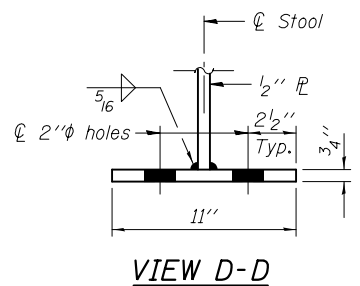
* 3/4" x 8" granular or solid flux filled headed studs conforming to Art. 1006.32 of the Std. Specs. automatically end welded.

** Drill 1" holes in stools for transverse reinforcement. String reinforcement prior to installing Finger Plate. (Dims. at Rt. L's)

*** at right angle to joint.

**** Varies at Stringers. (See Table below)

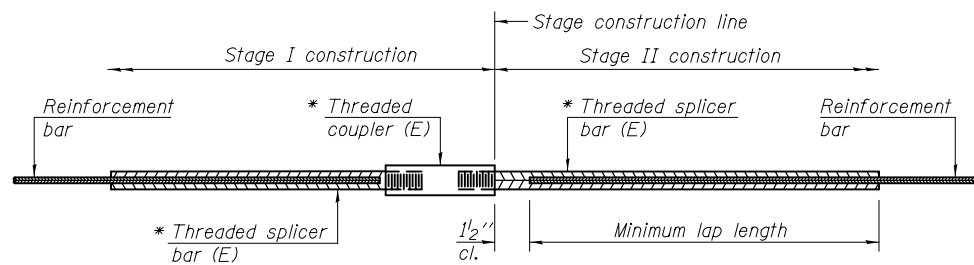
Stool	Max.	Min.
Stool A	1'-2 1/8"	11 3/16"
Stool B	1'-2 1/8"	11 1/8"
Stool C	1'-1 1/16"	10 1/8"



STOOL "D" DETAILS AT N. ABUT.

DIMENSION "D" AT N. ABUT.

Stool No.	Dim. D	Stool No.	Dim. D
D1	11 1/4"	D30	9 1/4"
D2	11 1/8"	D31	10 5/16"
D3	12 7/16"	D32	11 3/8"
D4	13 1/16"	D33	12 7/16"
D5	13 5/8"	D34	13 1/2"
D6	14 3/16"	D35	14 1/16"
D7	14 5/8"	D36	15"
D8	15 1/16"	D37	15 5/8"
D9	15 9/16"	D38	16 3/16"
D10	16"	D39	16 3/4"
D11	16 1/2"	D40	17 5/16"
D12	16 5/16"	D41	17 15/16"
D13	16 5/8"	D42	18 3/8"
D14	16 3/8"	D43	18 13/16"
D15	16 1/16"	D44	19 5/16"
D16	15 13/16"	D45	19 3/4"
D17	15 9/16"	D46	20 3/16"
D18	15 5/16"	D47	20 3/4"
D19	14 15/16"	D48	20 1/2"
D20	14 9/16"	D49	20 1/4"
D21	14 3/16"	D50	19 5/16"
D22	13 13/16"	D51	19 11/16"
D23	13 3/8"	D52	19 7/16"
D24	13"	D53	19 3/16"
D25	12 5/16"	D54	18 13/16"
D26	11 7/16"	D55	18 7/16"
D27	10 9/16"	D56	18 1/16"
D28	9 11/16"	D57	17 11/16"
D29	8 7/8"	D58	17 5/16"



STANDARD BAR SPLICER ASSEMBLY

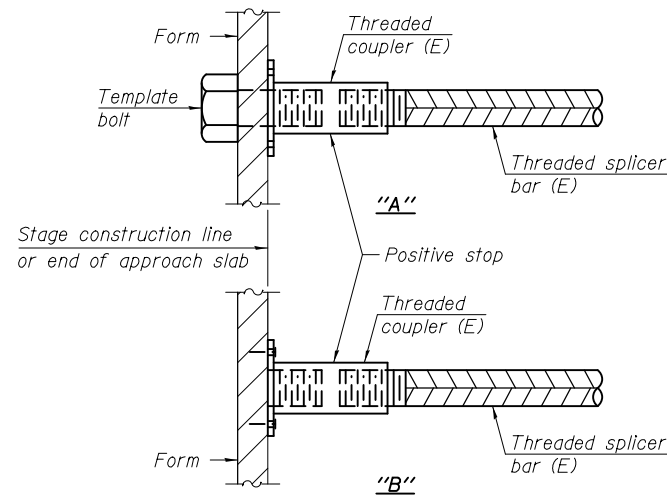
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

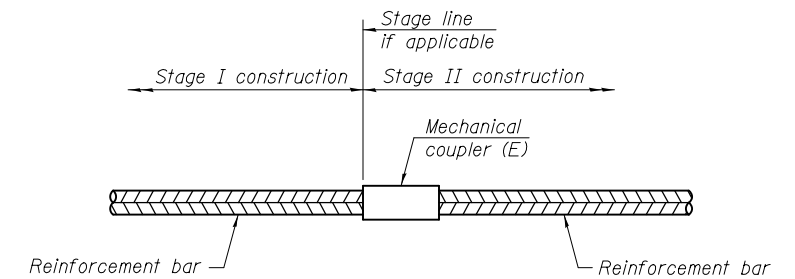
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	76	3
Abutments	#6	16	3



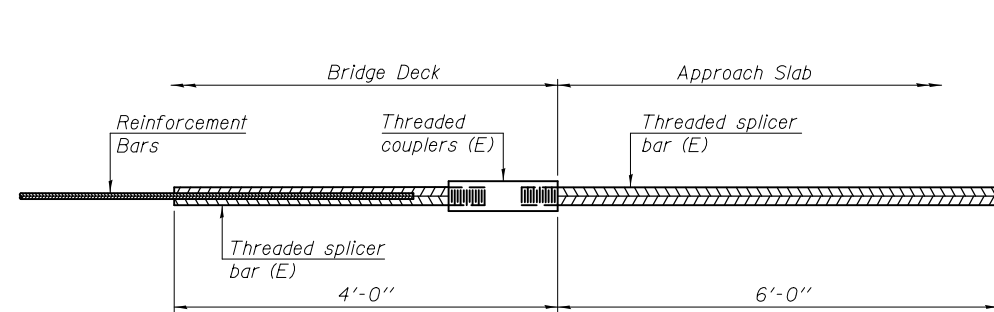
INSTALLATION AND SETTING METHODS

"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.



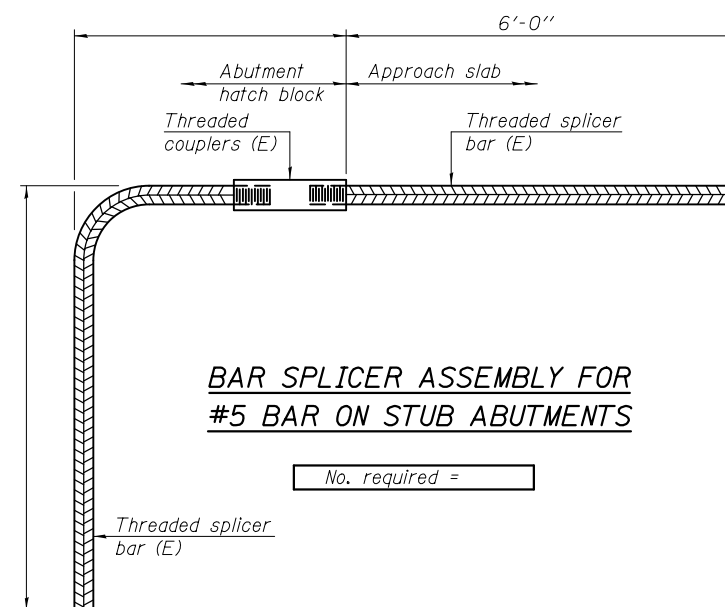
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Deck	#5	560



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 approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-27-12

DESIGNED ATH	EXAMINED	DATE JANUARY 22, 2014
CHECKED VHV	PASSED	
DRAWN Steffen		
CHECKED ATH VHV		

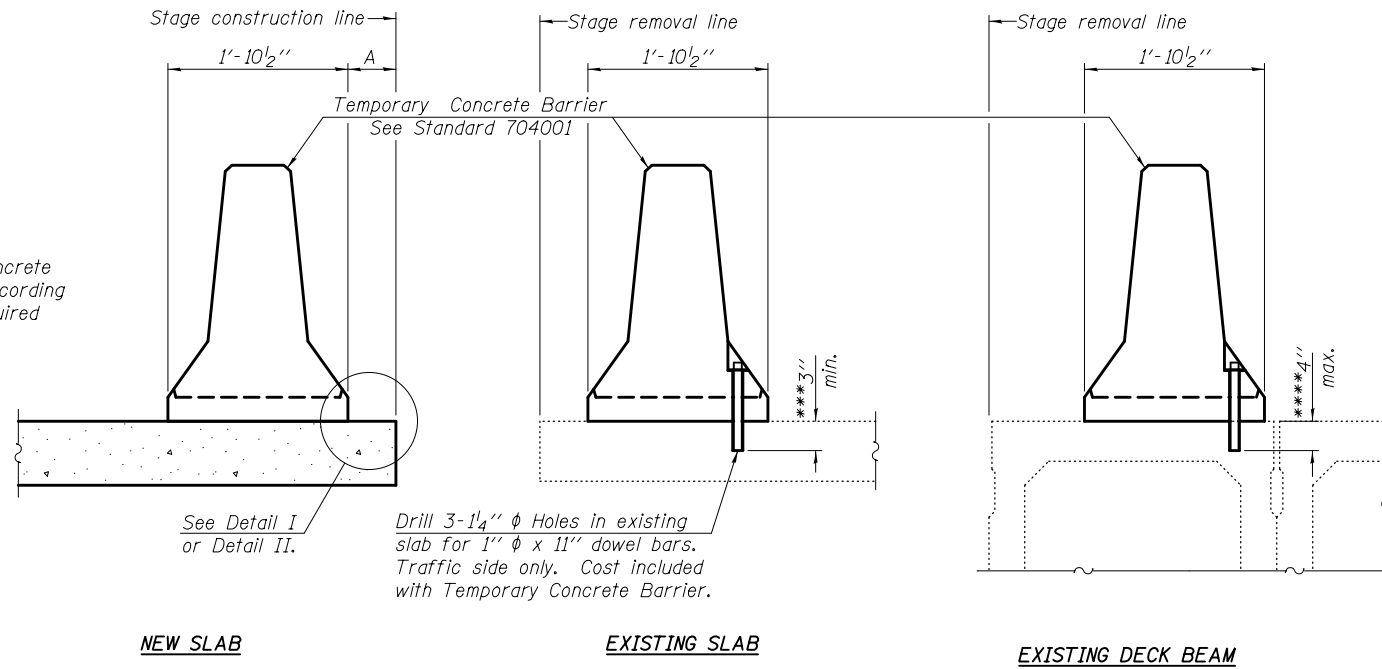
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 082-0227

SHEET NO. 16 OF 17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-1	ST. CLAIR	46	38
CONTRACT NO. 76D51			ILLINOIS FED. AID PROJECT	

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

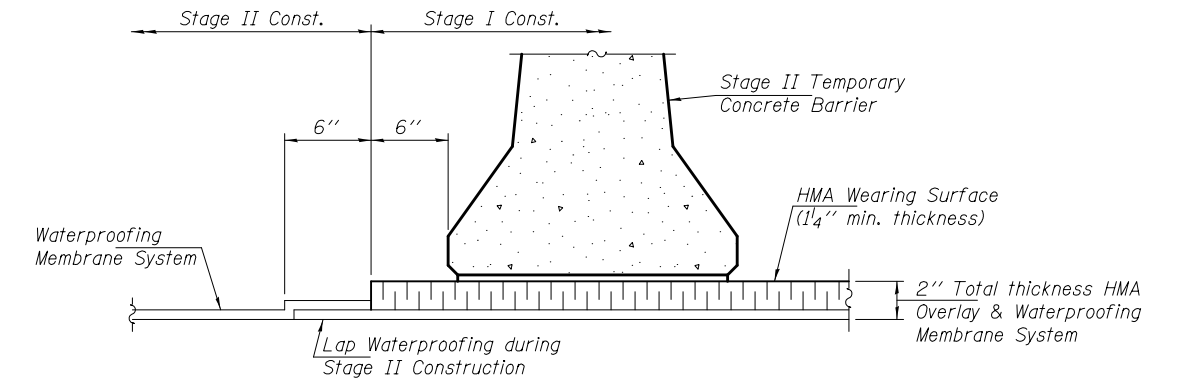
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

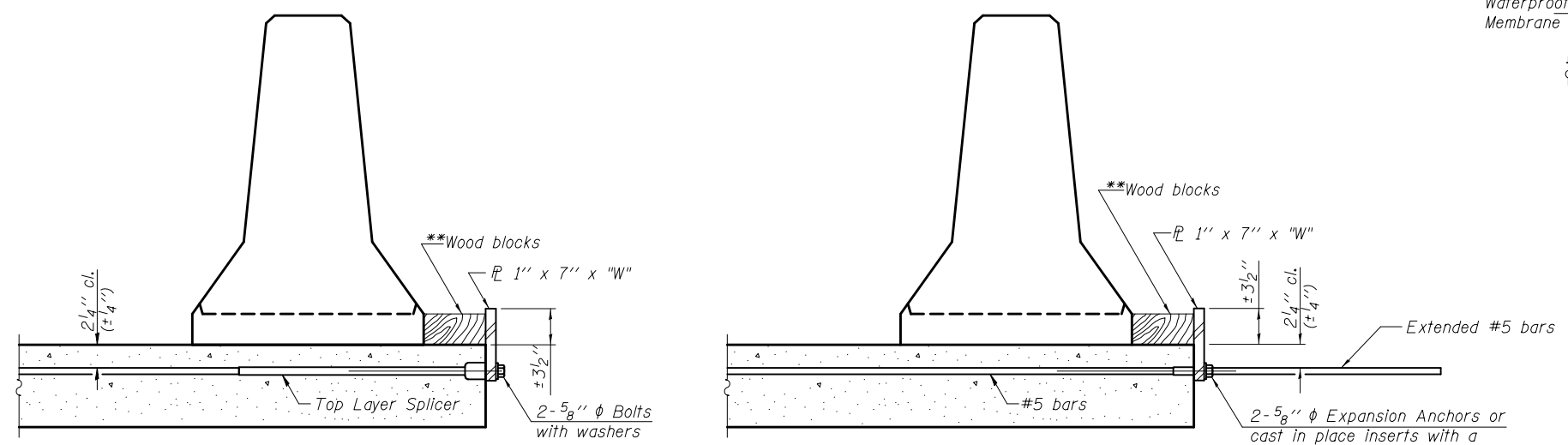
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION

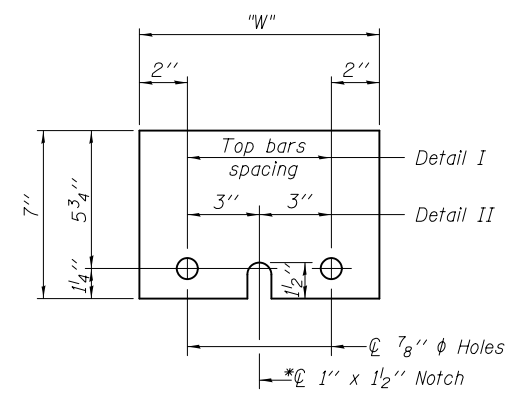


DETAIL I

DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

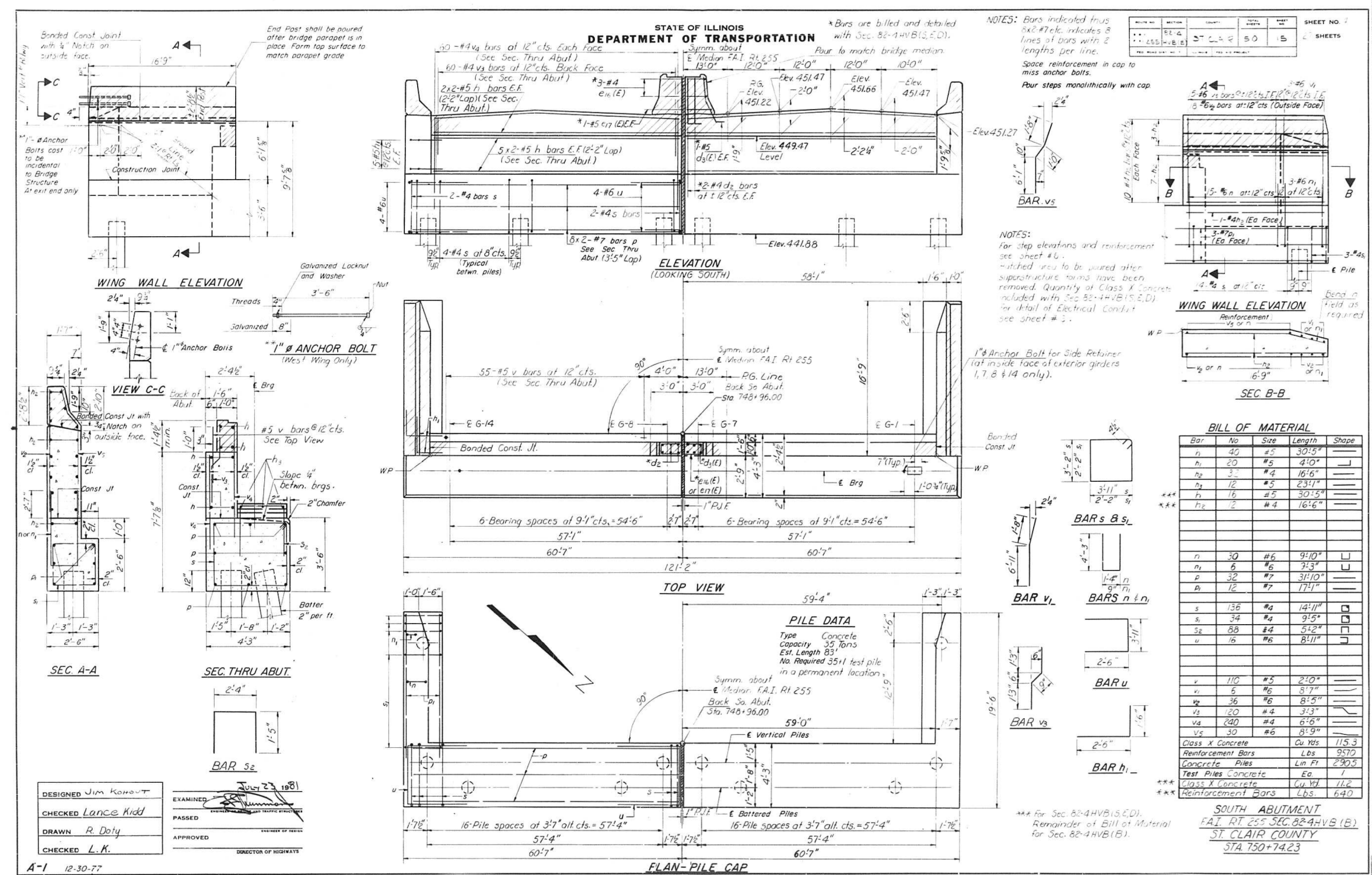
"W" = Top bars spacing + 4"



STEEL RETAINER \bar{L} 1" x 7" x "W"

* Required only with Detail II

DESIGNED ATH	EXAMINED <i>Timothy A. [Signature]</i>	DATE JANUARY 22, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION SN 082-0227	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED VHV	PASSED <i>[Signature]</i>	REVISOR			255	82-4HVB-1	ST. CLAIR	46	38A	
DRAWN Steffen	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			CONTRACT NO. 76D51					
CHECKED ATH VHV	ACTING ENGINEER OF STRUCTURAL SERVICES	REVISOR			ILLINOIS FED. AID PROJECT					
					SHEET NO. 17 OF 17 SHEETS					



DESIGNED Jim Kohout
 CHECKED Lance Kidd
 DRAWN R. Doty
 CHECKED L.K.

EXAMINED July 23 1981
 PASSED
 APPROVED
 DIRECTOR OF HIGHWAYS

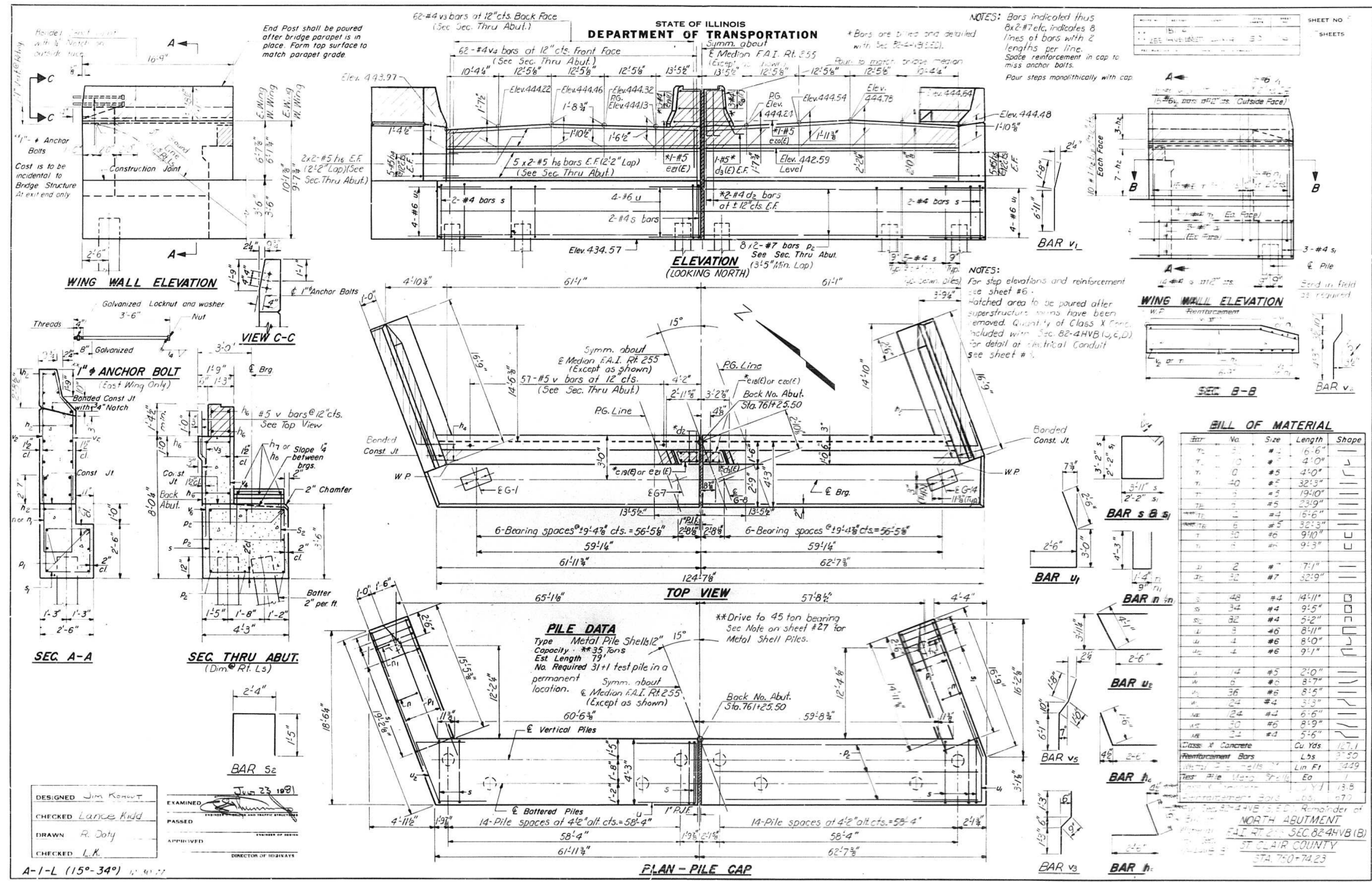
A-1 12-30-77

BILL OF MATERIAL

Bar	No	Size	Length	Shape
n	40	#5	30'5"	
n1	20	#5	4'0"	
n2	3	#4	16'6"	
n3	12	#5	23'1"	
n4	16	#5	30'5"	
n5	12	#4	16'6"	
s	30	#6	9'10"	
s1	6	#6	7'3"	
s2	32	#7	31'10"	
s3	12	#7	17'1"	
s4	136	#4	14'11"	
s5	34	#4	9'5"	
s6	88	#4	5'2"	
s7	16	#6	8'11"	
v	110	#5	2'0"	
v1	6	#6	8'7"	
v2	36	#6	8'5"	
v3	120	#4	3'3"	
v4	240	#4	6'6"	
v5	30	#6	8'9"	
Class X Concrete				Cu Yds 115.3
Reinforcement Bars				Lbs 9570
Concrete Piles				Lin Ft 290.3
Test Piles Concrete				Ea 1
Class X Concrete				Cu Yd 112
Reinforcement Bars				Lbs 640

SOUTH ABUTMENT
 F.A.I. RT. 255 SEC. 82-4HVB (B)
 ST. CLAIR COUNTY
 STA. 750+74.23

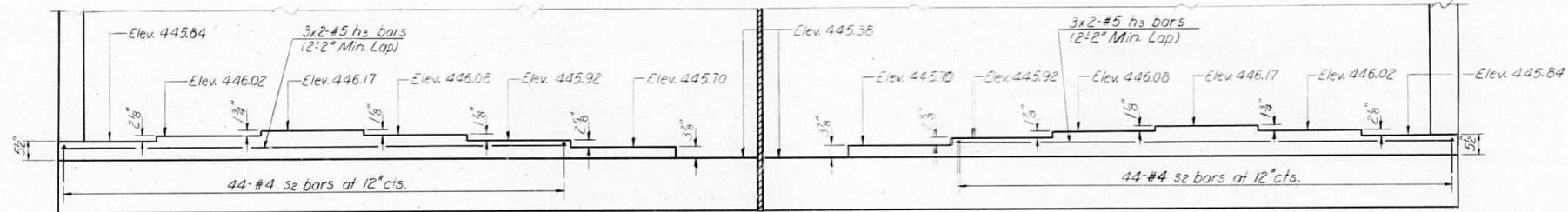
FOR INFORMATIONAL PURPOSES ONLY



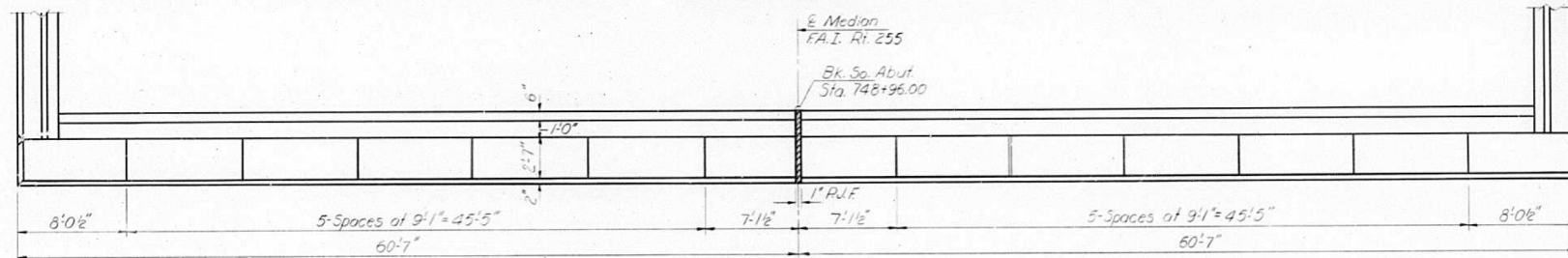
FOR INFORMATIONAL PURPOSES ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

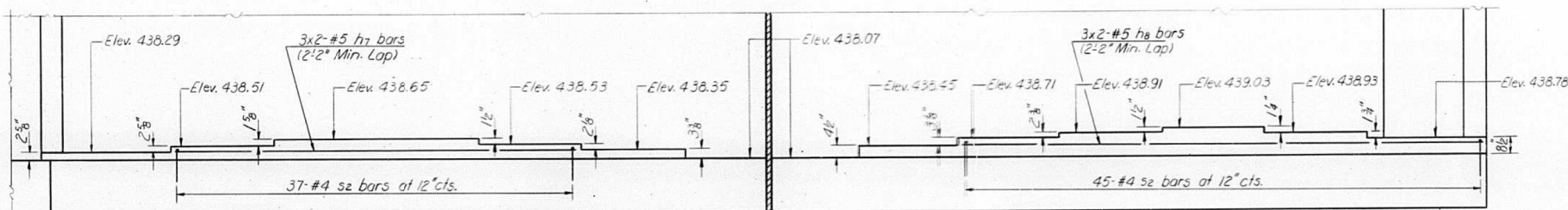
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. OF TOTAL SHEETS
255	82-4HVB(I)	ST. CLAIR	50	17	27 SHEETS



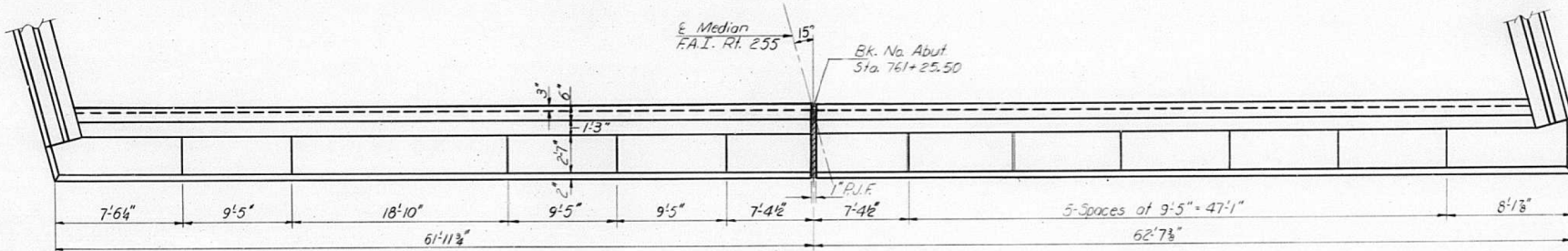
ELEVATION-SOUTH ABUTMENT
LOOKING SOUTH



PLAN-SOUTH ABUTMENT



ELEVATION-NORTH ABUTMENT
LOOKING NORTH



PLAN-NORTH ABUTMENT

DESIGNED Jim Kohout	EXAMINED <i>[Signature]</i> Jun 23 1971
CHECKED Lance Kidd	PASSED
DRAWN R. Doty	APPROVED
CHECKED L.M.	

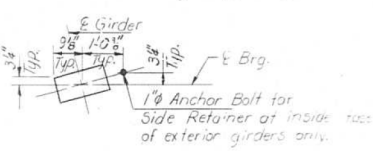
NORTH AND SOUTH
ABUTMENT DETAILS
F.A.I. RT. 255 SEC. 82-4HVB(I)
ST. CLAIR COUNTY
STA. 750+74.23

FOR INFORMATIONAL PURPOSES ONLY

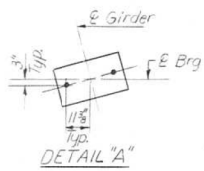
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILE#		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 4 OF 8 SHEETS	STA.	TO STA.	255	82-4HVB-I	ST. CLAIR	46	42
		CHECKED -	REVISED -					CONTRACT NO. 76D51					
		DRAWN -	REVISED -										
		CHECKED -	REVISED -										
		DATE -	REVISED -										
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

NOTES:

Space reinforcement in cap to miss anchor bolts.
 All edges shall have standard 3/4" chamfers except as noted.
 Pour steps monolithically with cap.
 Bars indicated thus 3x2-#5 etc. indicates 3 lines of bars with 2 lengths per line.

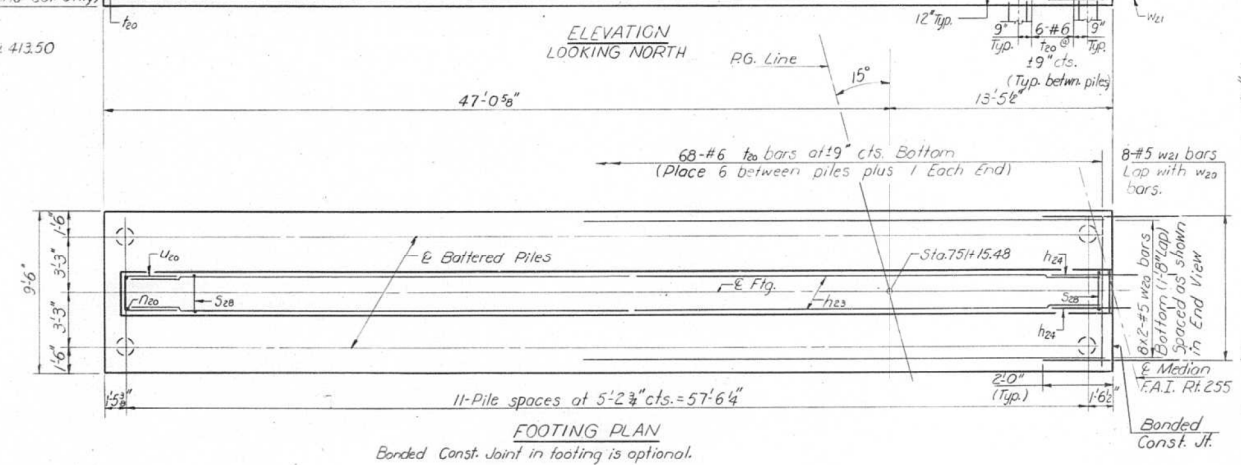
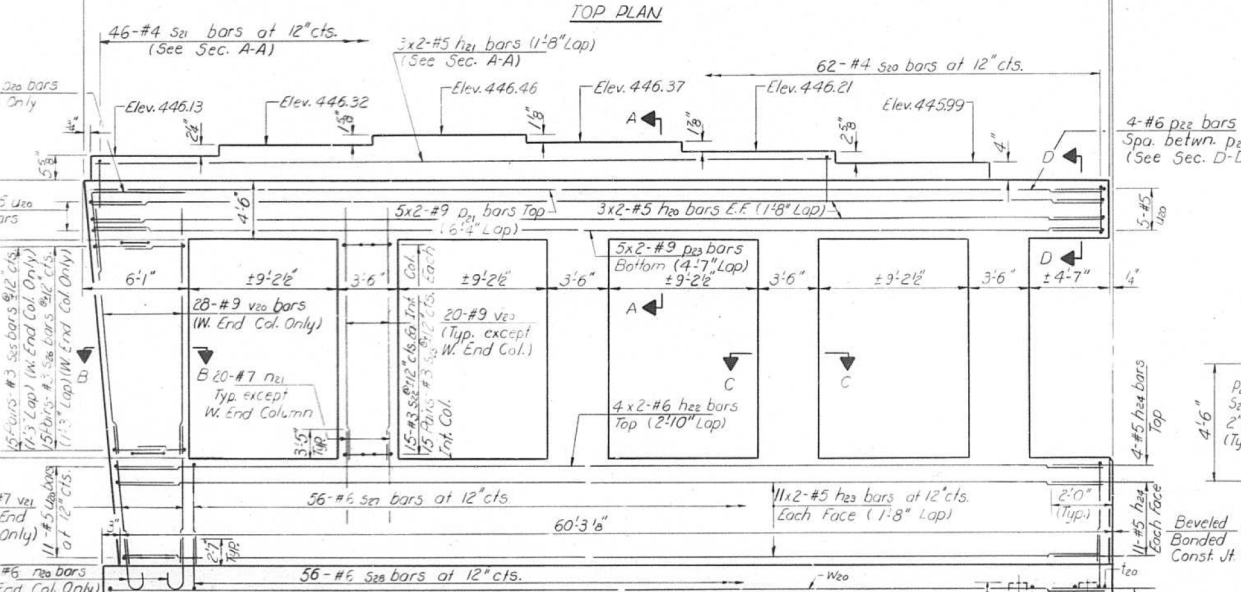
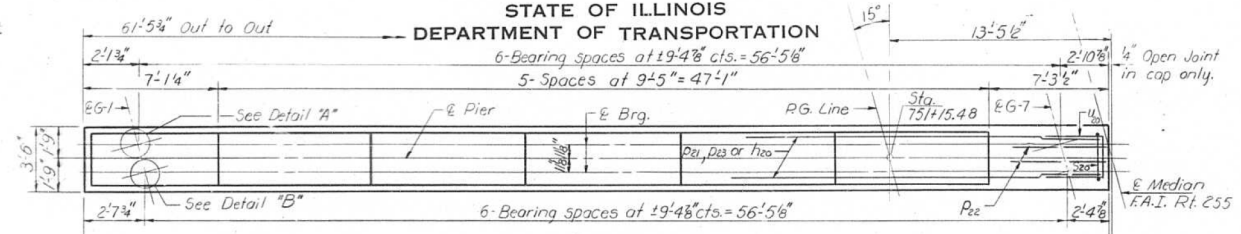


DETAIL "B"



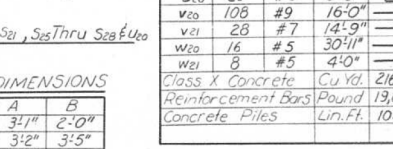
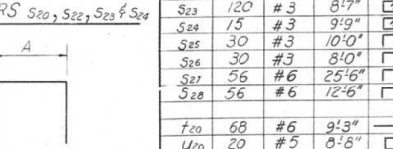
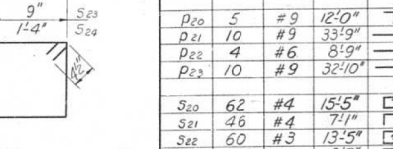
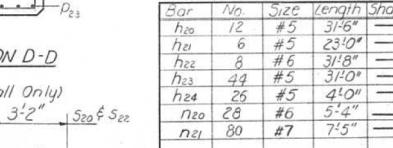
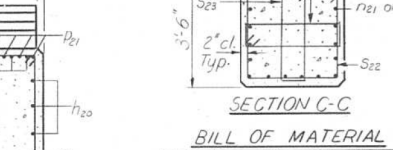
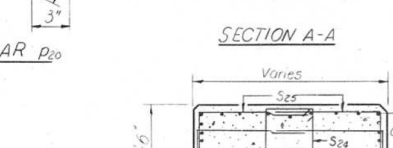
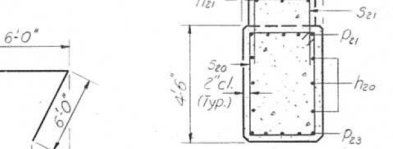
DETAIL "A"

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	4	ST. CLAIR	50	20

PIER 2 WEST BOUND LANES
 F.A.I. RT. 255 SEC 82-4HVB(B)
 ST. CLAIR COUNTY
 STA. 750+74.23



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20	12	#5	31'6"	U
h21	6	#5	23'0"	U
h22	8	#6	31'0"	U
h23	44	#5	31'0"	U
h24	25	#5	4'10"	U
h20	28	#6	5'-4"	U
h21	80	#7	7'-5"	U
P20	5	#9	12'-0"	7
P21	10	#9	33'-9"	7
P22	4	#6	8'-9"	7
P23	10	#9	32'-10"	7
S20	62	#4	15'-5"	□
S21	46	#4	7'-1"	□
S22	60	#3	13'-5"	□
S23	120	#3	8'-7"	□
S24	15	#3	9'-9"	□
S25	30	#3	10'-0"	□
S26	30	#3	8'-0"	□
S27	56	#6	25'-6"	□
S28	56	#6	12'-6"	□
U20	20	#5	0'-6"	□
V20	108	#9	16'-0"	□
V21	28	#7	14'-9"	□
W20	16	#5	30'-11"	□
W21	8	#5	4'-0"	□
F20	68	#6	9'-3"	□
U20	20	#5	0'-6"	□
V20	108	#9	16'-0"	□
V21	28	#7	14'-9"	□
W20	16	#5	30'-11"	□
W21	8	#5	4'-0"	□
Class X Concrete	Cu Yd.	216.7		
Reinforcement Bars	Pound	19,810		
Concrete Piles	Lin. Ft.	1056		

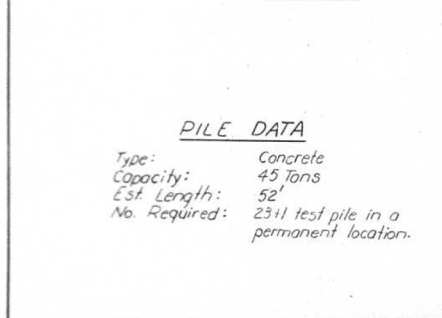
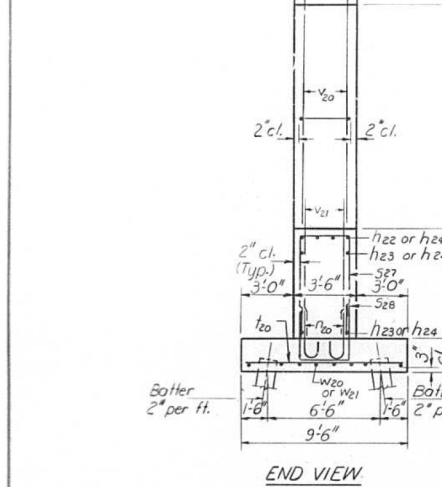
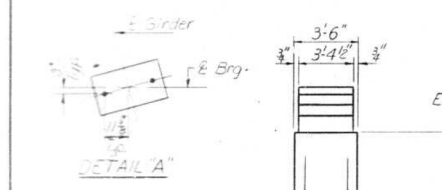
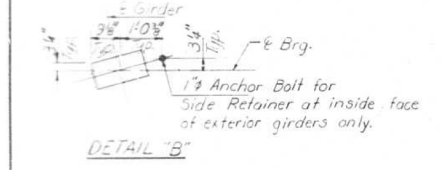
PILE DATA

Type: Concrete
 Capacity: 45 tons
 Est. Length: 44'
 No. Required: 24

DESIGNED: <i>Rick Brunette</i>	EXAMINED: <i>Rick Brunette</i>
CHECKED: <i>Rick Brunette</i>	PASSED: <i>Rick Brunette</i>
DRAWN: <i>R. Doty</i>	APPROVED: <i>RAB</i>
CHECKED: <i>RAB</i>	

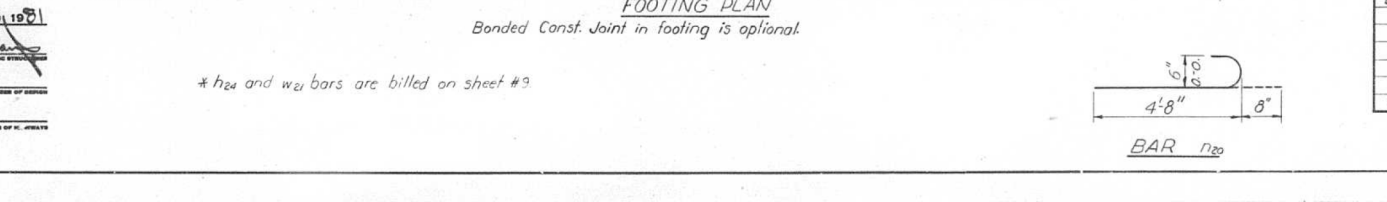
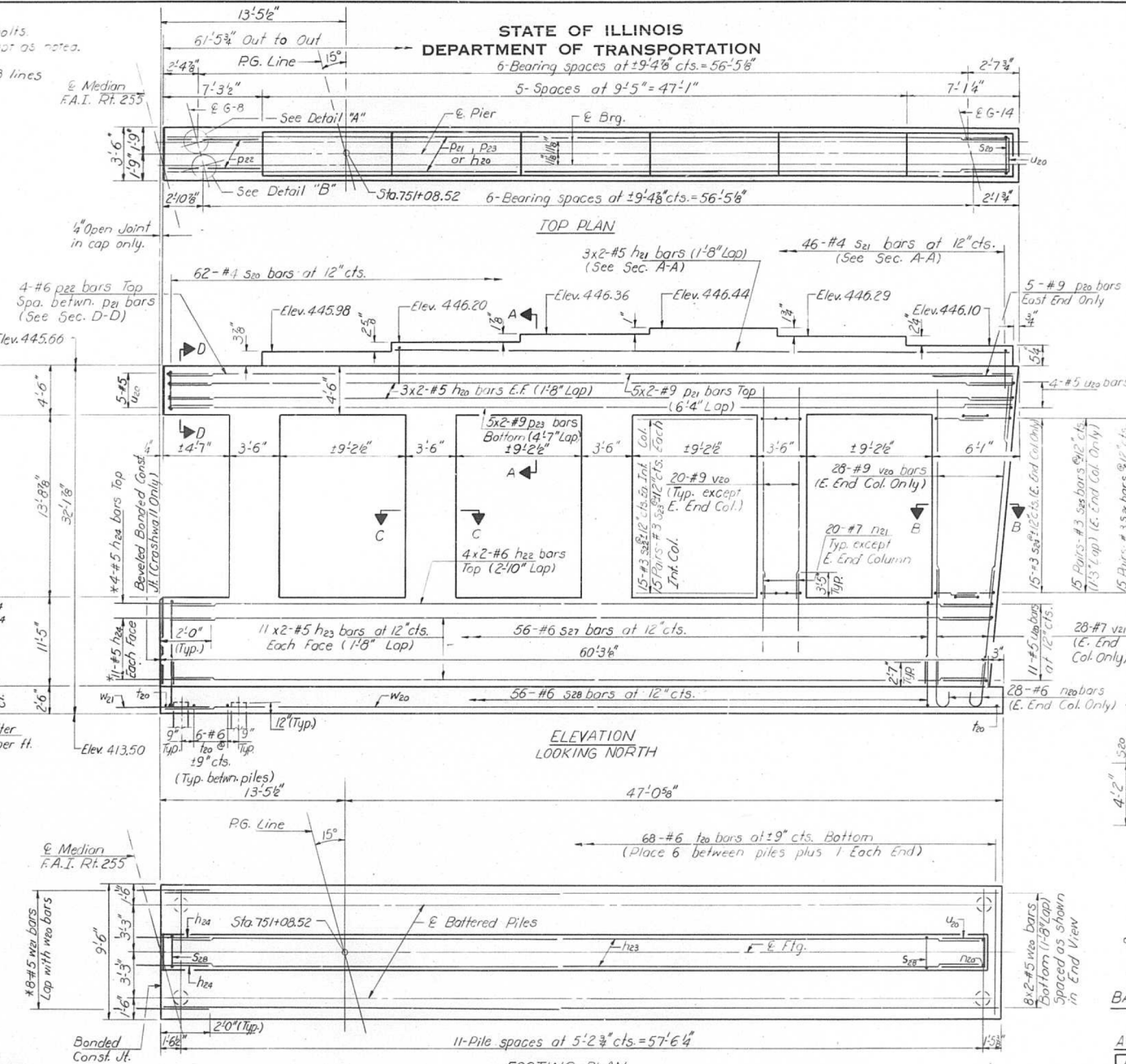
FOR INFORMATIONAL PURPOSES ONLY

NOTES:
 1. Space reinforcement in cap to miss anchor bolts.
 2. All steps shall have standard 3/4" chamfers except as noted.
 3. Bars indicated thus 3#2 #5 etc. indicates 3 lines of bars with 2 lengths per line.

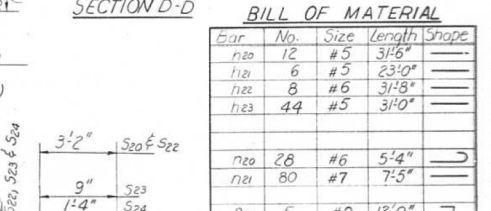
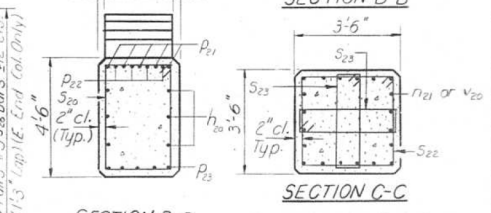
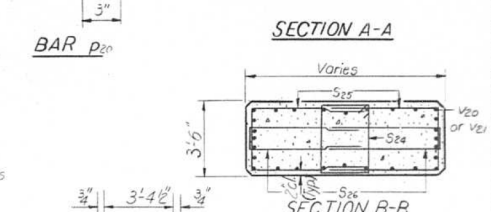
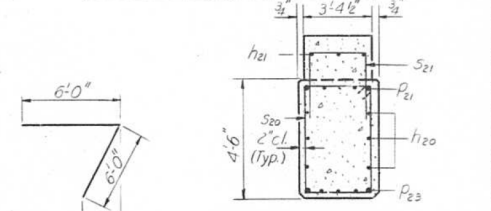


PILE DATA
 Type: Concrete
 Capacity: 45 tons
 Est Length: 52'
 No. Required: 23+1 test pile in a permanent location.

DESIGNED: *Rick Brunetta*
 CHECKED: *Rick Brunetta*
 DRAWN: *R. Doty*
 CHECKED: *RAB*



PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-4HVB-I	ST. CLAIR	50	21



BARS S20, S21, S22, S23

Bar	No.	Size	Length	Shape
n20	12	#5	31'6"	□
n20	28	#6	5'4"	□
n21	80	#7	7'5"	□
D20	5	#9	12'0"	□
D21	10	#9	33'9"	□
D22	4	#6	8'9"	□
D23	10	#9	32'10"	□
S20	62	#4	15'5"	□
S21	46	#4	7'1"	□
S22	60	#3	13'5"	□
S23	120	#3	8'7"	□
S24	15	#3	9'9"	□
S25	30	#3	10'0"	□
S26	30	#3	8'0"	□
S27	56	#6	25'6"	□
S28	56	#6	12'6"	□
t20	60	#6	9'3"	□
U20	20	#5	8'8"	□
V20	108	#9	16'0"	□
v21	20	#7	14'9"	□
w20	16	#5	30'4"	□

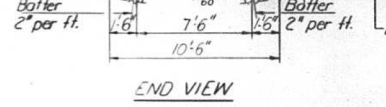
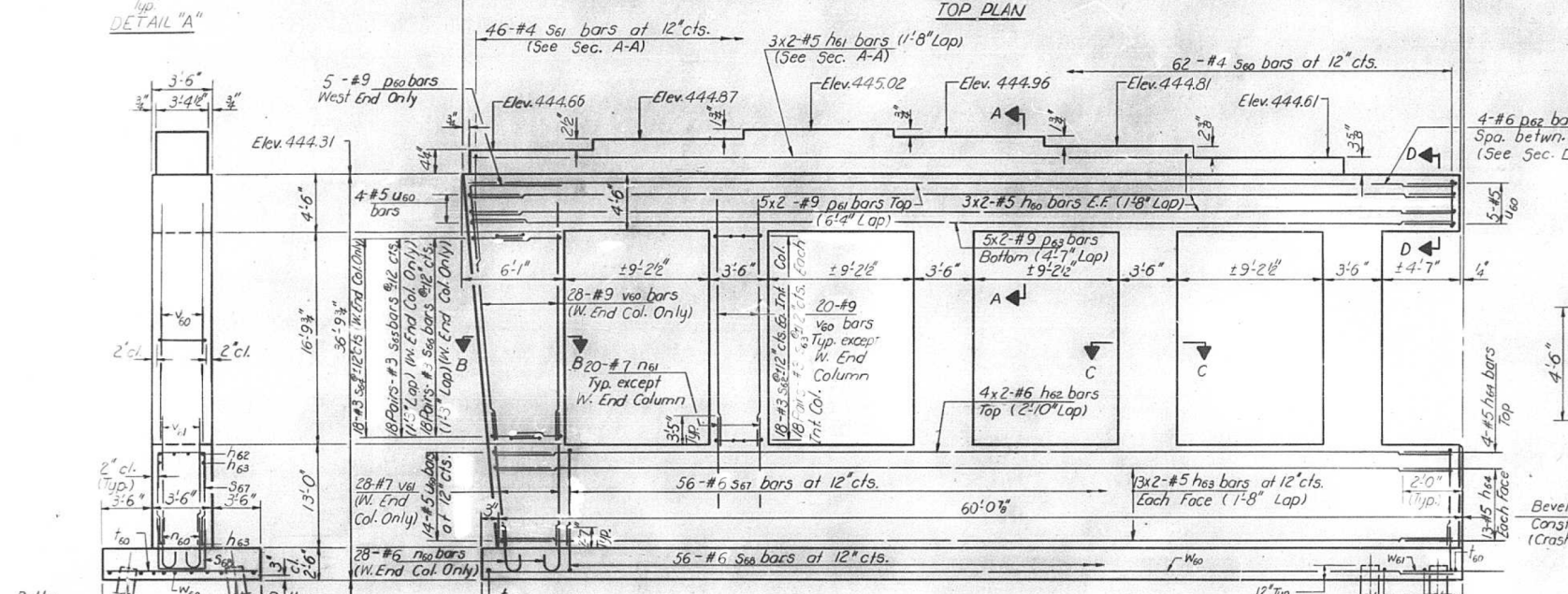
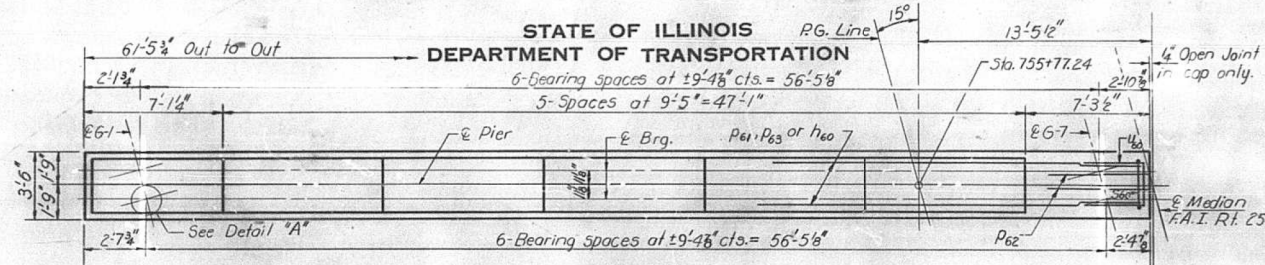
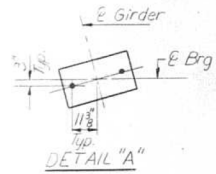
Class X Concrete Cu. Yd. 26.7
 Reinforcement Bars Pound 19,660
 Concrete Piles Lin. Ft. 1196
 Test Pile Concrete Each 1

PIER 2
CAST BOUND LANES
 F.A.I. RT. 255 SEC. 82-4HVB (B)
 ST. CLAIR COUNTY
 STA. 750+74.23

FOR INFORMATIONAL PURPOSES ONLY

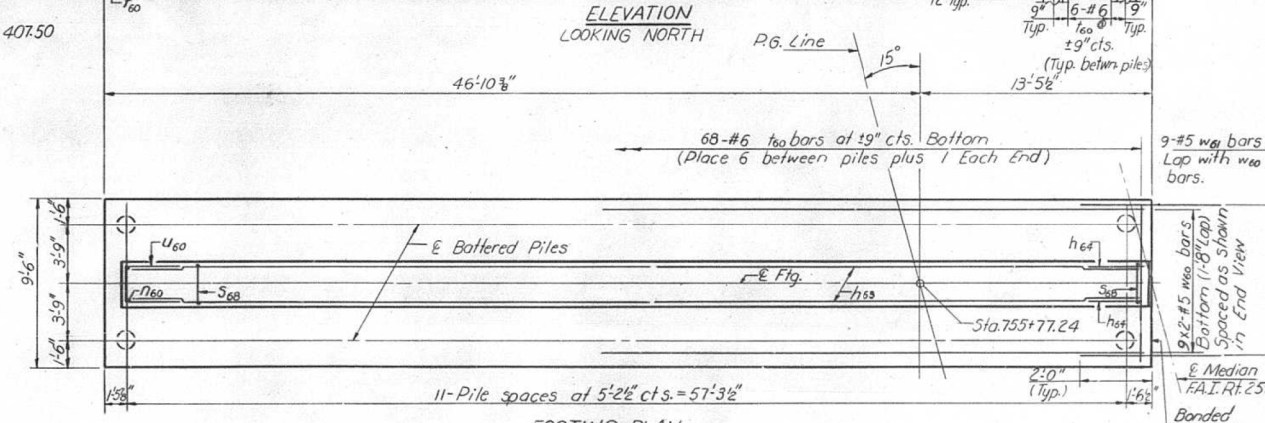
NOTES:

Space reinforcement in cap to miss anchor bolts.
 All edges shall have standard $\frac{3}{8}$ 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.

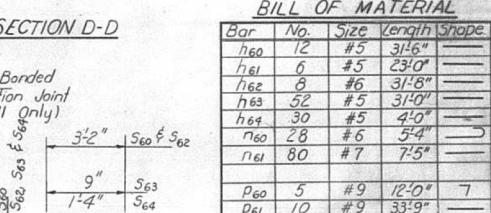
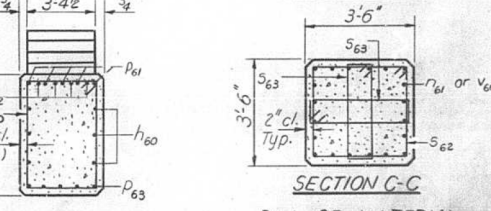
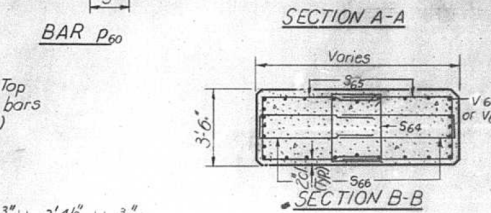
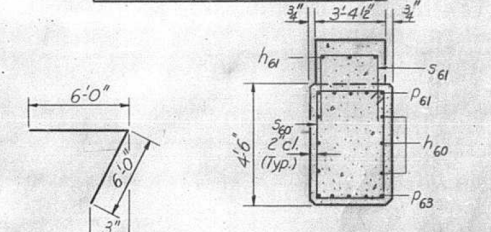


PILE DATA

Type: Concrete
 Capacity: 45 tons
 Est. Length: 45'
 No. Required: 24



ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. OF SHEETS
255	HVB(B)	ST. CLAIR	50	28



BARS S60, S62, S63 & S64

Bar	No.	Size	Length	Shape
S60	62	#4	15'-5"	□
S61	46	#4	7'-7"	□
S62	72	#3	13'-5"	□
S63	144	#3	8'-7"	□
S64	18	#3	9'-9"	□
S65	36	#3	10'-0"	□
S66	36	#3	8'-0"	□
S67	56	#6	28'-8"	□
S68	56	#6	12'-6"	□

BARS S61, S65 Thru S68 & U60

Bar	No.	Size	Length	Shape
T60	68	#6	10'-3"	□
U60	23	#5	8'-8"	□
V60	108	#9	19'-0"	□
W60	28	#7	16'-4"	□
W60	18	#5	30'-10"	□
W61	9	#5	4'-0"	□

A&B DIMENSIONS

Bar	A	B
S61	3'-1"	2'-0"
S65	3'-2"	3'-5"
S66	1'-2"	3'-5"
S67	3'-2"	12'-9"
S68	3'-2"	4'-8"
U60	3'-0"	2'-10"

PIER 6
 WEST BOUND LANES
 F.A.I. RT. 255 SEC. 82-4HVB(B)
 ST. CLAIR COUNTY
 STA. 750+74.23

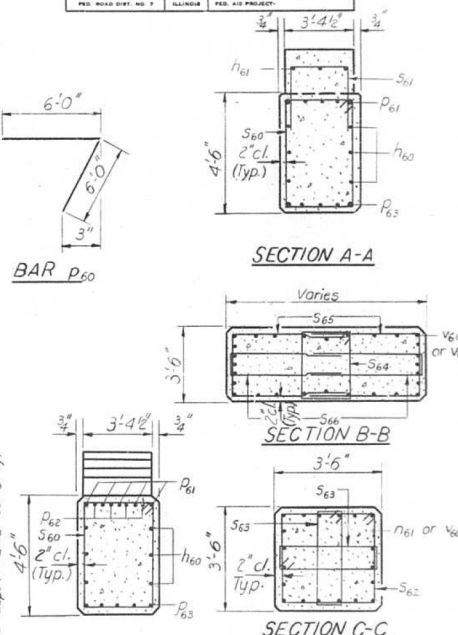
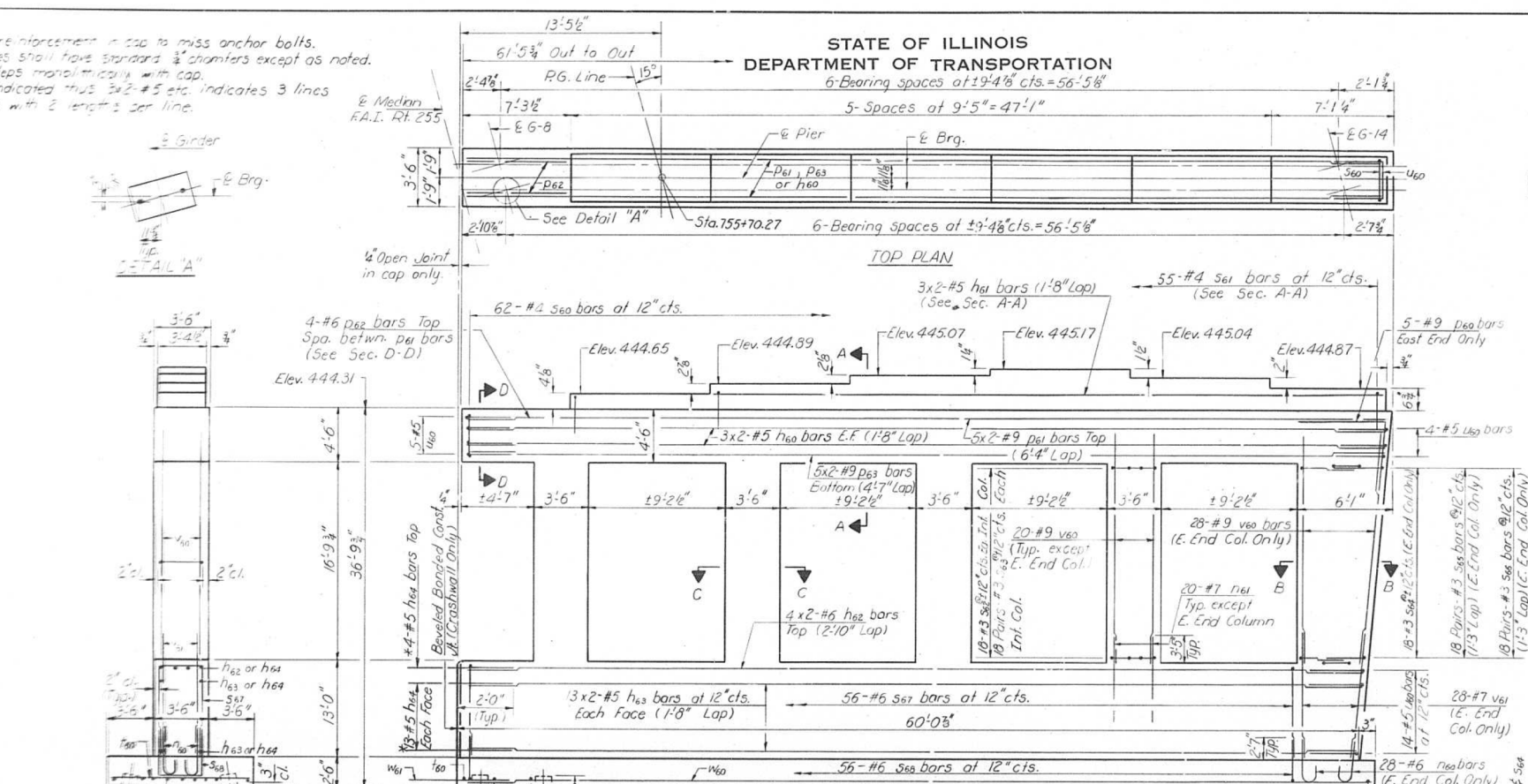
DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

FOR INFORMATIONAL PURPOSES ONLY

NOTES:
 Space reinforcement in cap to miss anchor bolts.
 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.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
255	82-4	ST. CLAIR	50	29	27 SHEETS



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h60	12	#5	31'-6"	
h61	6	#5	23'-0"	
h62	8	#6	31'-8"	
h63	52	#5	31'-0"	
h64	28	#6	5'-4"	
h65	80	#7	7'-5"	
P60	5	#9	12'-0"	7
P61	10	#9	33'-9"	
P62	4	#6	6'-9"	
P63	10	#9	32'-0"	
S60	62	#4	15'-5"	
S61	55	#4	7'-1"	
S62	72	#3	13'-5"	
S63	144	#3	8'-7"	
S64	18	#3	9'-9"	
S65	36	#3	10'-0"	
S66	36	#3	8'-0"	
S67	56	#6	28'-8"	
S68	56	#6	12'-6"	
T60	68	#6	10'-3"	
U60	23	#5	8'-8"	
V60	108	#9	19'-0"	
V61	28	#7	16'-4"	
W60	18	#5	30'-0"	

Class X Concrete Cu.Yd. 2424
 Reinforcement Bars Pound 21,800
 Concrete Piles Lin.Ft. 1080

PIER 6
 EAST BOUND LANES
 F.A.I. RT. 255 SEC. 82-4HVB (B)
 ST. CLAIR COUNTY
 STA. 750+74.23

FILE DATA
 Type: Concrete
 Capacity: 45 Tons
 Est. Length: 45'
 No. Required: 24

DESIGNED	W. P. ...	EXAMINED	J. S. ...
CHECKED	R. B. ...	PASSED	
DRAWN	R. Doty	APPROVED	
CHECKED	RAB		

* h64 and w61 bars are billed on sheet #17

FOR INFORMATIONAL PURPOSES ONLY