

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	1
		ILLINOIS	CONTRACT NO. 76J01	

INDEX OF SHEETS:

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61-62	TRUCK DETOUR ROUTES

F.A.P. ROUTE 103 (IL 15)
SECTION 28-1BR-1, 28-1HBR-1
PROJECT NHPP-0103(078)
IL 15 OVER HARDING DITCH & IL 157
BRIDGE REPAIRS
ST. CLAIR COUNTY

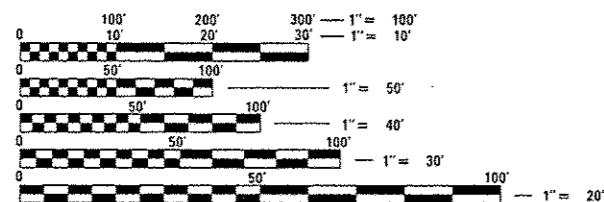
C-98-051-15

TRAFFIC DATA:

IL 15	IL 15
082-0039 ADT:	082-0040 ADT:
38,400 (2016)	33,900 (2016)
38,800 (2017)	34,200 (2017)
47,300 (2037)	41,800 (2037)
SU: 2.5%	SU: 2.3%
MU: 2.1%	MU: 2.1%
IL 157 ADT	IL 157 ADT
SOUTH OF IL 15:	NORTH OF IL 15:
5,050 (2015)	7,200 (2015)
5,150 (2017)	7,300 (2017)
6,300 (2037)	9,000 (2037)
SU: 5.9%	SU: 6.9%
MU: 2.0%	MU: 1.7%

FUNCTIONAL CLASSIFICATION:

OTHER PRINCIPAL ARTERIAL

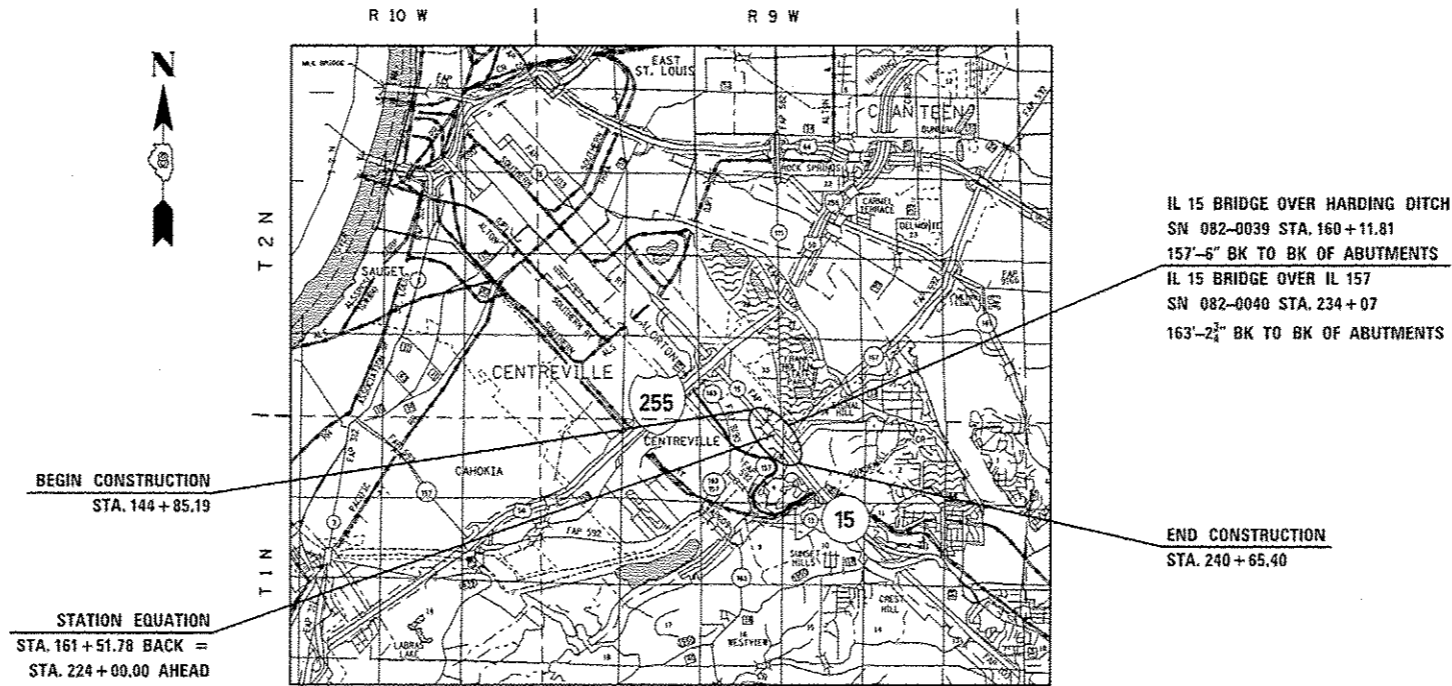


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

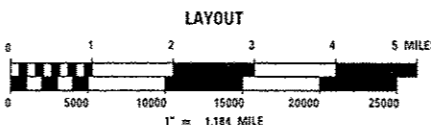
PROJECT ENGINEER: TIM PADGETT (618) 346-3325
DESIGNER: PHILLIP FREIMUTH (618) 346-3194

CONTRACT NO. 76J01



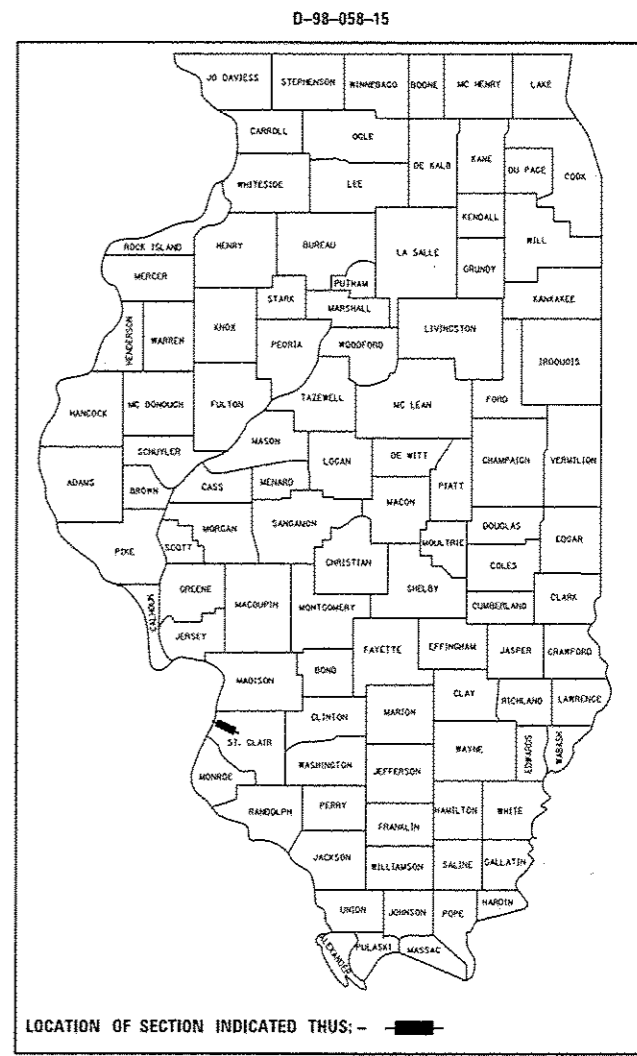
IL 15 BRIDGE OVER HARDING DITCH
 SN 082-0039 STA. 160+11.81
 157'-6" BK TO BK OF ABUTMENTS
 IL 15 BRIDGE OVER IL 157
 SN 082-0040 STA. 234+07
 163'-2 1/4" BK TO BK OF ABUTMENTS

END CONSTRUCTION
 STA. 240+65.40



GROSS LENGTH = 3,331.99' = 0.631 MILE
 NET LENGTH = 3,331.99' = 0.631 MILE

SN 082-0039 - LATITUDE: 38.57013678° LONGITUDE: 90.09422956°
 SN 082-0040 - LATITUDE: 38.56753010° LONGITUDE: 90.09137979°



LOCATION OF SECTION INDICATED THUS: - [highlighted area]

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *Jan. 20 2017*
Jeffrey Z. Ka...
 REGIONAL ENGINEER

Mar 24 2017
Maurice M. Addis, P.E.
 ENGINEER OF DESIGN AND ENVIRONMENT

May 24 2017
Marcus...
 DIRECTOR OF PROGRAM DEVELOPMENT

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 OF THE STATE OF ILLINOIS**

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
637001-05	CONCRETE BARRIER, DOUBLE FACE, 32 IN. HEIGHT
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS > 45 MPH
701456-04	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782001-01	CURB REFLECTORS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

COMMITMENTS

NONE

GENERAL NOTES (CONTINUED)

8. THE ILLINOIS DEPARTMENT OF TRANSPORTATION 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-RELATED SKILLS, E.G., MATH 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. PLEASE 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.
9. AFTER THE EXISTING CONCRETE BARRIER IS REMOVED, LIGHTED DRUMS SHALL BE PLACED AT 50 FOOT CENTERS IN PLACE OF THE EXISTING CONCRETE BARRIER UNTIL STAGE CONSTRUCTION TRAFFIC CONTROL IS ESTABLISHED. THIS WORK WILL BE INCLUDED IN THE COST OF REMOVE TEMPORARY CONCRETE BARRIER AND CONCRETE BARRIER REMOVAL.
10. EARTH EXCAVATION FOR PROPOSED HMA SHOULDERS, 8" AND COMBINATION CURB & GUTTER, TYPE B-6.24 SHALL BE INCLUDED IN THE COST OF THE HMA SHOULDERS, 8" AND COMBINATION CURB & GUTTER, TYPE B-6.24 REQUIRED FOR THE CONSTRUCTION.
11. ALL SURPLUS EXCAVATION DUE TO THE CONSTRUCTION OF THE HMA SHOULDERS, 8" AND COMBINATION CURB & GUTTER, TYPE B-6.24 MUST REMAIN ON THE PROJECT SITE. THE CONTRACTOR SHALL GRADE THE DISPOSED EXCAVATION TO THE SATISFACTION OF THE ENGINEER AND THE AREA MUST BE SEEDED WITH SEEDING CLASS 2A AND FERTILIZED AND MULCHED ACCORDING TO SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SHOULDERS, 8" AND COMBINATION CURB & GUTTER, TYPE B-6.24.
12. ALL TRAFFIC CONTROL DEVICES SHALL BE NEW OR "LIKE NEW" CONDITION AT THE BEGINNING OF THE PROJECT.
13. THE APPROACH END(S) OF TEMPORARY CONCRETE BARRIER SHALL BE PROTECTED WITH NCHRP 350 TEST LEVEL 3 APPROACH DEVICE SUCH AS A MULTIPLE ARRAY OF SAND FILLED PLASTIC BARRELS OR A TYPE 3, SPECIAL TERMINAL.
14. ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.
15. SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
16. IF ANY PART OF THE EXISTING GUARDRAIL NEEDS TO BE REMOVED FOR HMA REMOVAL OR RESURFACING ACTIVITIES, THAT COST SHALL BE CONSIDERED INCLUDED IN THE COST OF THAT OPERATION.

GENERAL NOTES

1. 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 - (GAS & ELECTRIC)
 - * AT&T ILLINOIS - (COMMUNICATIONS)
 - * CITY OF CENTREVILLE - (SANITARY SEWER)
 - * COMMONFIELDS OF CAHOKIA PUBLIC WATER DISTRICT - (WATER & SANITARY SEWER)
 - * ENABLE MIDSTREAM PARTNERS - (PIPELINE)
 - * ILLINOIS AMERICAN WATER COMPANY - (WATER)
 - * LEVEL 3 COMMUNICATIONS, LLC - (COMMUNICATIONS)

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
3. THE PROPOSED PERMANENT PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
4. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
5. A QUANTITY OF 50 TON OF AGGREGATE WEDGE SHOULDER, TYPE B HAS BEEN ADDED TO THE PLANS IN ORDER TO REMOVE ANY DROP-OFF AREAS ADJACENT TO THE EXISTING SHOULDERS. LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.
6. A QUANTITY OF 11,840 FEET OF TEMPORARY PAVEMENT MARKING LINE 6" WHITE AND YELLOW HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.
7. THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

MIXTURE USE	SURFACE	BRIDGE OVERLAY	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	SBS PG 76-22	SBS PG 76-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=30	4.0% @ Ndes=30
MIX COMPOSITION (Gradation)	IL 9.5	IL 9.5	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE "E"	MIXTURE "E"		
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA

Plan quantities for Bituminous Concrete Surface Course Items are calculated using a unit weight of 112 lb/sq yd/1in (59.8 kg/sq m/25 mm thickness).

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	ROADWAY
				✓ 0014 S. N. 082-0039	✓ 0014 S. N. 082-0040	0005 URBAN ✓
31101300	SUBBASE GRANULAR MATERIAL, TYPE B 5"	SO YD	1682	0	0	1682
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2652	1000	1497	155
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	1523	767	756	0
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	399	186	213	0
42000060	WELDED WIRE REINFORCEMENT	SO YD	27	0	0	27
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SO YD	27	0	0	27
44000100	PAVEMENT REMOVAL	SO YD	1682	0	0	1682
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	3566	1071	1875	620
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	106	0	0	106
44001980	CONCRETE BARRIER REMOVAL	FOOT	1702	0	0	1702
44003100	MEDIAN REMOVAL	SO FT	14353	0	0	14353
44004250	PAVED SHOULDER REMOVAL	SO YD	28	0	0	28
45100100	CRACK ROUTING (PAVEMENT)	FOOT	156	156	0	0
45100200	CRACK FILLING	POUND	52	52	0	0

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	ROADWAY
				0014	0014	0005
				S. N. 082-0039	S. N. 082-0040	URBAN
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	50	25	25	0
48203041	HOT-MIX ASPHALT SHOULDERS, 11"	SQ YD	56	0	0	56
48203100	HOT-MIX ASPHALT SHOULDERS	TON	456	159	258	39
50102400	CONCRETE REMOVAL	CU YD	41.5	21.3	20.2	0
50300225	CONCRETE STRUCTURES	CU YD	1.6	0	1.6	0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	46.7	23.9	22.8	0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	10070	7660	2410	0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4550	2130	2420	0
50800515	BAR SPLICERS	EACH	84	48	36	0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	282	140	142	0
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	10	0	10	0
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	10	0	10	0
52100520	ANCHOR BOLTS, 1"	EACH	40	0	40	0
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	2319	1136	1183	0

M

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	ROADWAY
				0014	0014	0005
				S. N. 082-0039	S. N. 082-0040	URBAN
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	2	2	0
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	1661	0	0	1661
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	81	0	0	81
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	10648	0	0	10648
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SO FT	2511	0	0	2511
60622800	CONCRETE MEDIAN, TYPE SM-6.12	SO FT	42	0	0	42
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	50	25	25	0
63700255	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	FOOT	929	0	0	929
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2878	1187	1691	0
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	0	0	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	1	1	2
67100100	MOBILIZATION	LSUM	1	0.34	0.33	0.33
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	LSUM	1	0.5	0.5	0
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2	0	0

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	ROADWAY
				0014	0014	0005
				S. N. 082-0039	S. N. 082-0040	URBAN
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	1	0	0	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	0	0	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	0	0	1
70107006	PAVEMENT MARKING BLACKOUT TAPE, 6"	FOOT	19246	9623	9623	0
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1	0.5	0.5	0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	60	28	32	0
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	9643	4820.5	4822.5	0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2959	1384	1575	0
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	11840	5920	5920	0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4128	2064	2064	0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3333	1666.5	1666.5	0
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1	0
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1	0

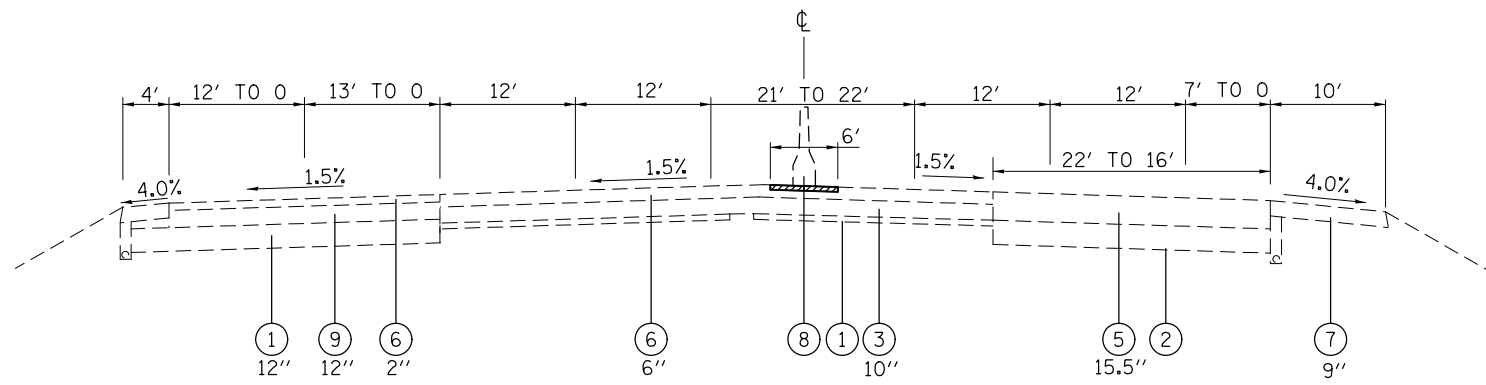
13

FILE NAME =	USER NAME = fmsmthpd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\\l004EBI0INTEG.illinois.gov\PI00T\Documents\100T Offices\District 8\Projects\0876\DATA\000\600\sheets\d876J81-shr-plen.d	CHECKED -	REVISED -	103			28-1BR-1, 28-1HBR-1	ST. CLAIR	62	6	
PLOT SCALE = 100.0000' / in.	DATE -	REVISED -	CONTRACT NO. 76J01							
PLOT DATE = 2/2/2017	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

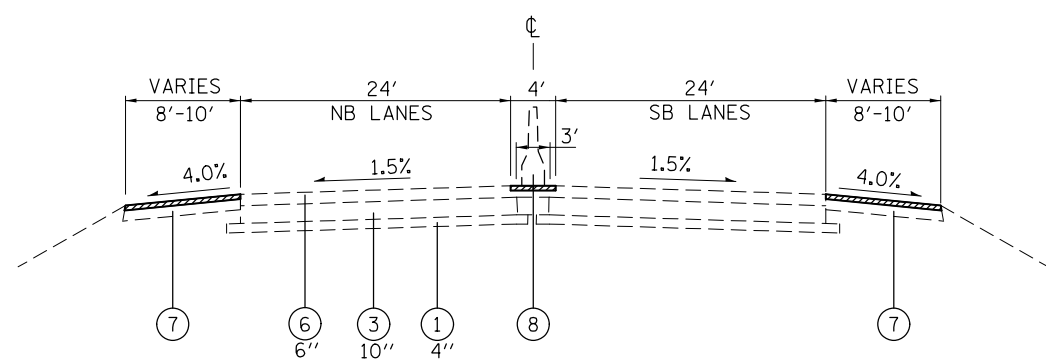
012 20 027

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE 0014	BRIDGE 0014	ROADWAY 0005
				S. N. 082-0039	S. N. 082-0040	URBAN
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	0.5	0.5	0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	960	240	240	480
X7040650	REMOVE TEMPORARY CONCRETE BARRIER	FOOT	1630	0	0	1630
* X7800100	PAINT PAVEMENT MARKING - RAISED MEDIAN	SO FT	124	0	0	124
* X7800200	PAINT PAVEMENT MARKING CURB	FOOT	559	0	0	559
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	20	0	20	0
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	10120	4960	5160	0
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	400	0	400	0
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	20	0	20	0
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	23	13	10	0
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	103	53	50	0
Z0016702	DETOUR SIGNING	LSUM	1	0.25	0.25	0.5
φ Z0076600	TRAINEES	HOOR	1000	500	500	
X230011	PORTABLE CONCRETE MEDIAN BARRIER TRANSITION	EACH	2	0	0	2
13 φ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	1000	500	500	

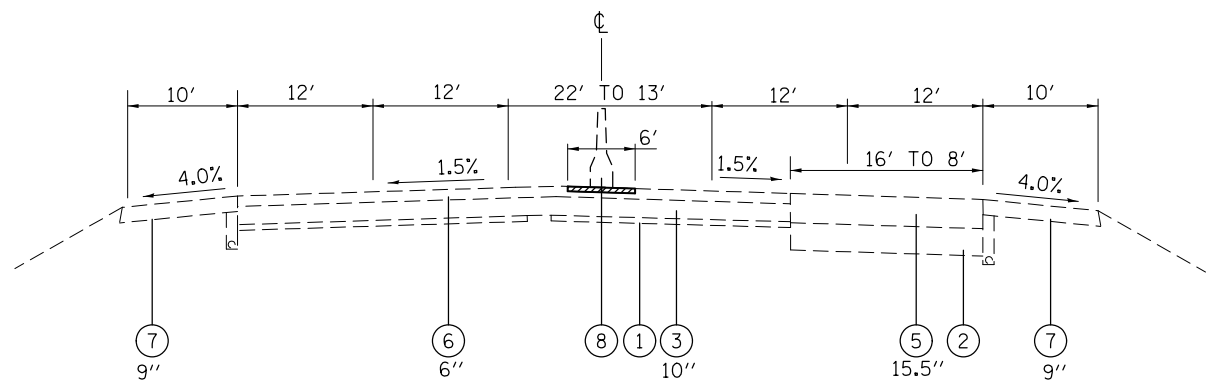
* SPECIALTY ITEM
φ 0042



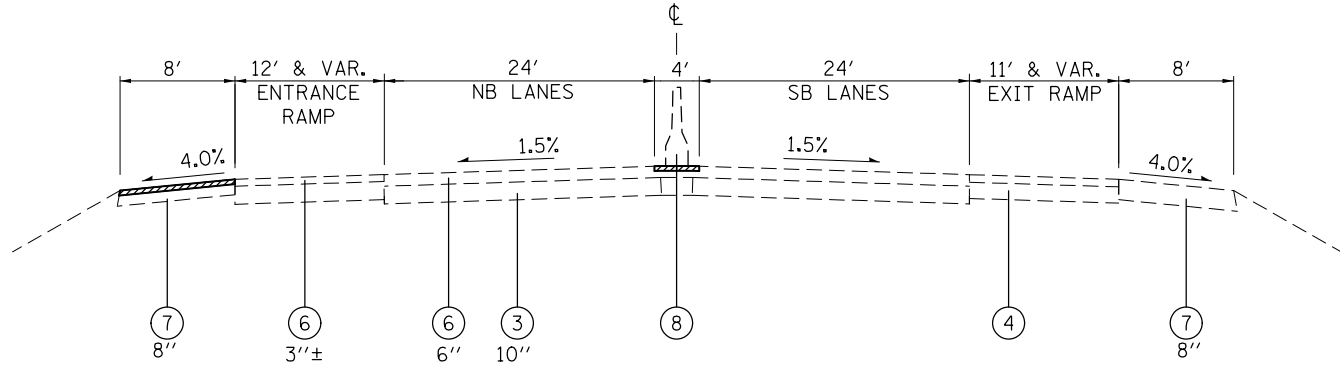
TYPICAL SECTION
STA. 144+85.19 TO STA. 148+83.37



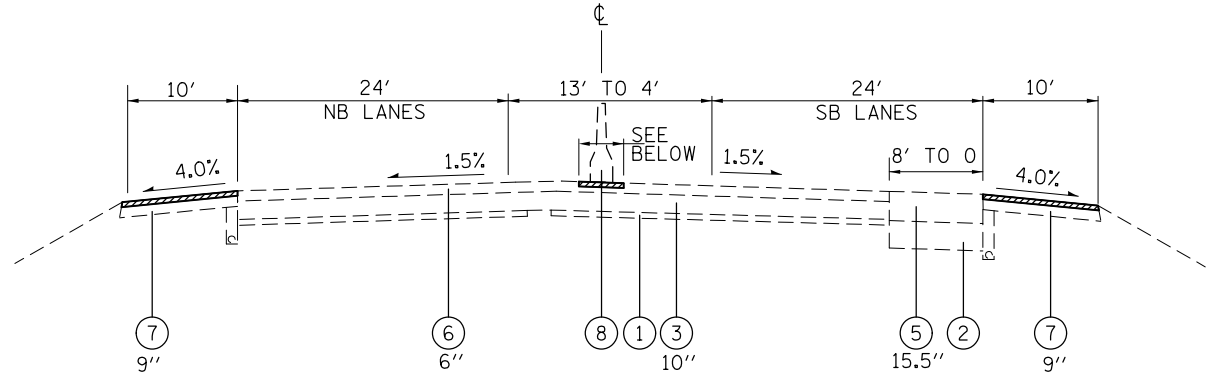
TYPICAL SECTION
STA. 157+83 TO STA. 159+33
BRIDGE OMISSION STA. 159+33.06 TO STA. 160+90.56
SHOULDER TREATMENT:
LEFT END STA. 159+16.13
CENTER END STA. 159+08.05
RIGHT END STA. 158+58.05



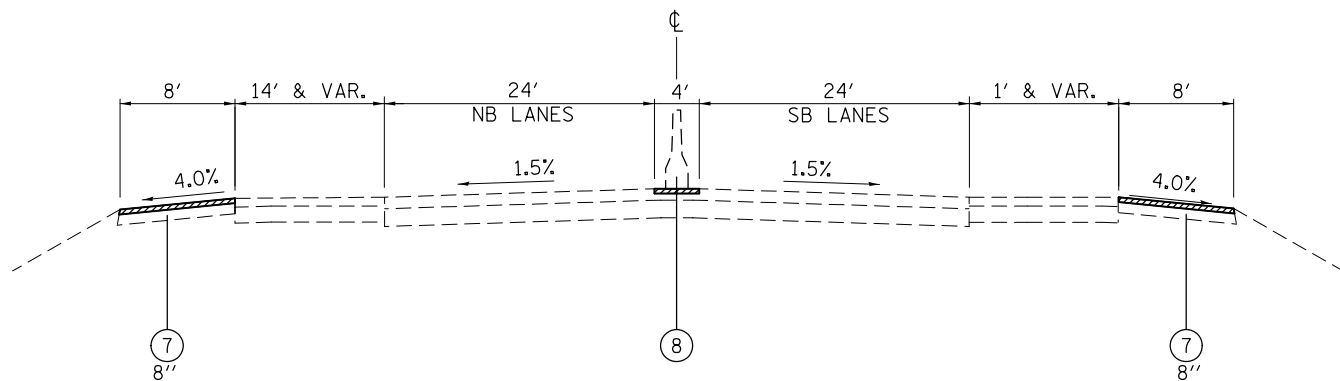
TYPICAL SECTION
STA. 148+83.37 TO STA. 153+14



TYPICAL SECTION
STA. 160+90.50 TO STA. 161+51.78
STA. EQU.: STA. 161+51.78 BK = STA. 224+00 AH
STA. 224+00 TO STA. 228+07.70 EB
STA. 224+00 TO STA. 229+38.64 WB
SHOULDER TREATMENT:
LEFT START STA. 229+37.04
CENTER START STA. 161+15.55



TYPICAL SECTION
STA. 153+14 TO STA. 157+83
SHOULDER TREATMENT:
LEFT START STA. 155+63.05
CENTER END STA. 154+14.64 (6' WIDTH)
START STA. 154+14.64 (4' WIDTH)
RIGHT START STA. 155+63.05



TYPICAL SECTION
STA. 228+07.70 TO STA. 240+65.40 EB
STA. 229+38.64 TO STA. 240+65.40 WB
BRIDGE OMISSION STA. 233+81.95 TO STA. 235+35.39
SHOULDER TREATMENT:
LEFT END STA. 233+21.00
START STA. 234+84.23
END STA. 237+76.94
CENTER START STA. 161+15.55
END STA. 233+25.39
START STA. 235+31.98
END STA. 240+65.40
RIGHT START STA. 228+08.17
END STA. 232+32.04
START STA. 234+93.02
END STA. 237+76.94

- LEGEND**
- ① EXISTING SUB-BASE GRANULAR MATERIAL
 - ② EXISTING LIME MODIFIED SOIL, 12"
 - ③ EXISTING PCC PAVEMENT
 - ④ EXISTING PCC BASE COURSE WIDENING, 9"
 - ⑤ EXISTING HMA PAVEMENT (FULL DEPTH)
 - ⑥ EXISTING HMA RESURFACING
 - ⑦ EXISTING HMA SHOULDER
 - ⑧ EXISTING CONCRETE BARRIER
 - ⑨ EXISTING HMA BINDER COURSE

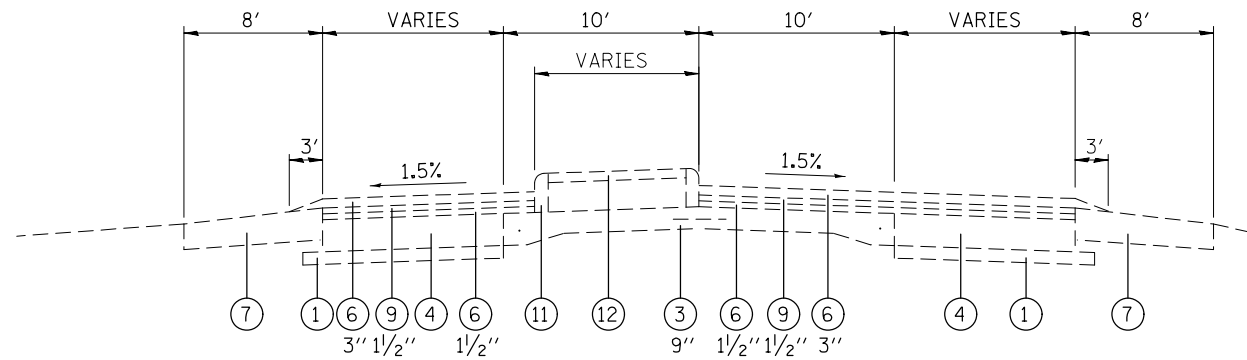
PROPOSED HMA SURFACE REMOVAL, 2"

FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

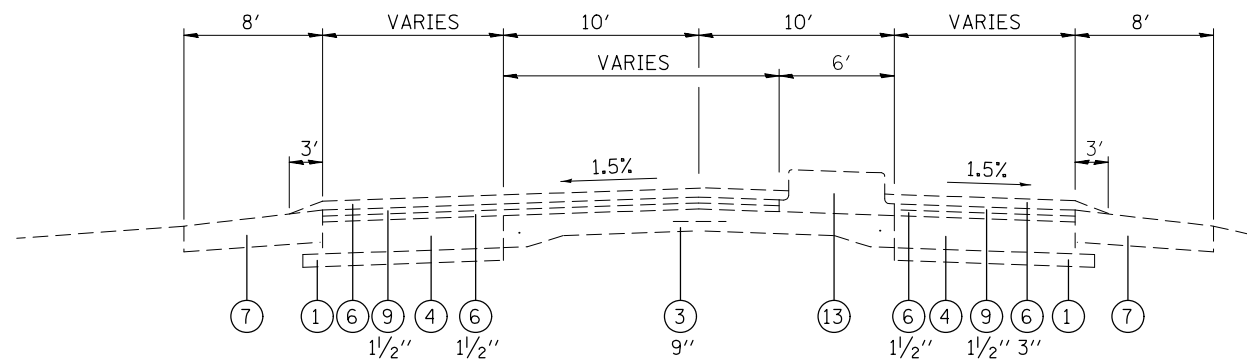
EXISTING TYPICAL SECTIONS (IL 15)	
SCALE: N.T.S.	SHEET 1 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-1HBR-1	ST. CLAIR	62	9
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION

STA. 306+73 TO STA. 308+40
 STA. 308+80 TO STA. 310+45
 STA. 315+76 TO STA. 320+56



TYPICAL SECTION

STA. 310+97.35 TO STA. 315+23.66

LEGEND

- ① EXISTING SUB-BASE GRANULAR MATERIAL
- ② EXISTING LIME MODIFIED SOIL, 12"
- ③ EXISTING PCC PAVEMENT
- ④ EXISTING PCC BASE COURSE WIDENING, 9"
- ⑤ EXISTING HMA PAVEMENT (FULL DEPTH)
- ⑥ EXISTING HMA RESURFACING
- ⑦ EXISTING HMA SHOULDER
- ⑧ EXISTING CONCRETE BARRIER
- ⑨ EXISTING HMA BINDER COURSE
- ⑩ EXISTING AGGREGATE SHOULDER
- ⑪ EXISTING CURB
- ⑫ EXISTING CONCRETE MEDIAN SURFACE
- ⑬ EXISTING SOLID CONCRETE MEDIAN

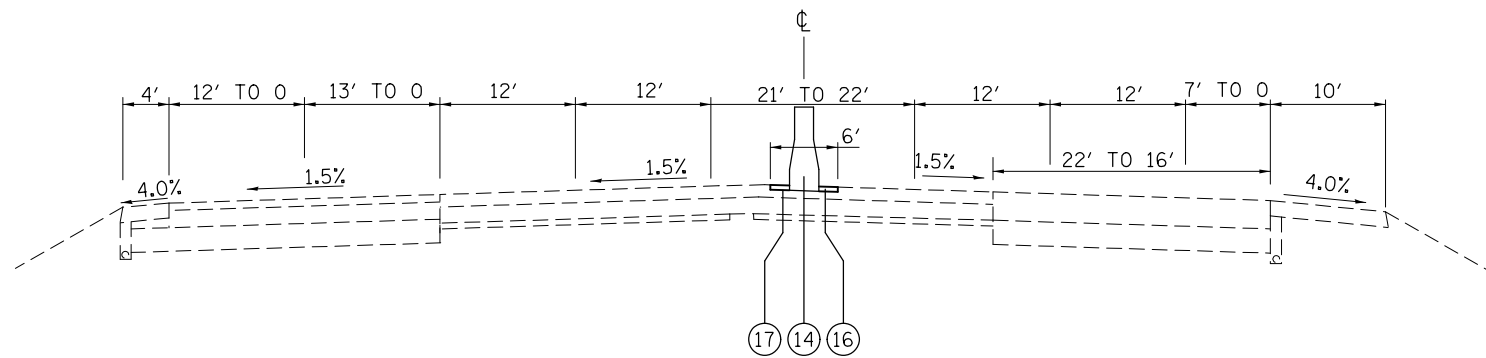
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		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

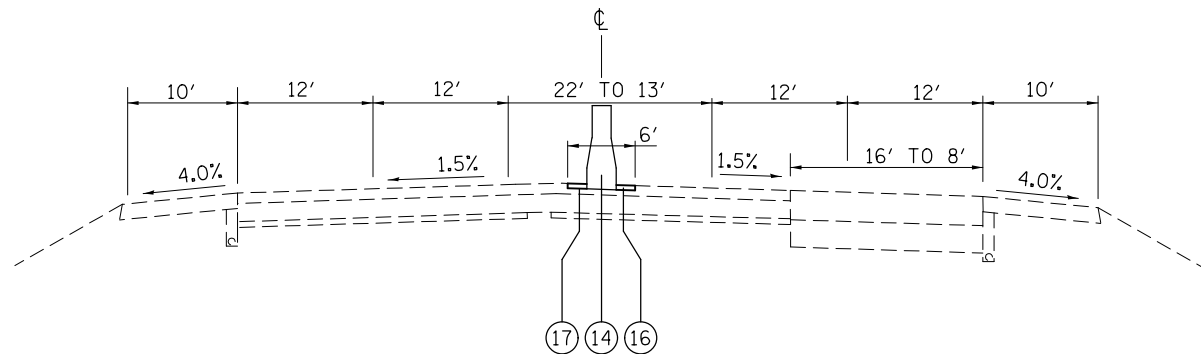
**EXISTING TYPICAL SECTIONS
 (IL 157)**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

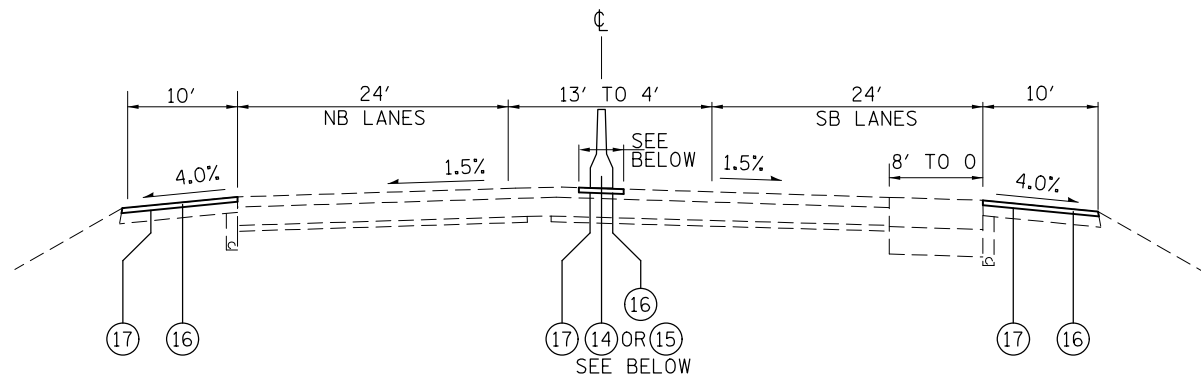
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-IHBR-1	ST. CLAIR	62	10
				CONTRACT NO. 76J01
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION
STA. 144+85.19 TO STA. 148+83.37



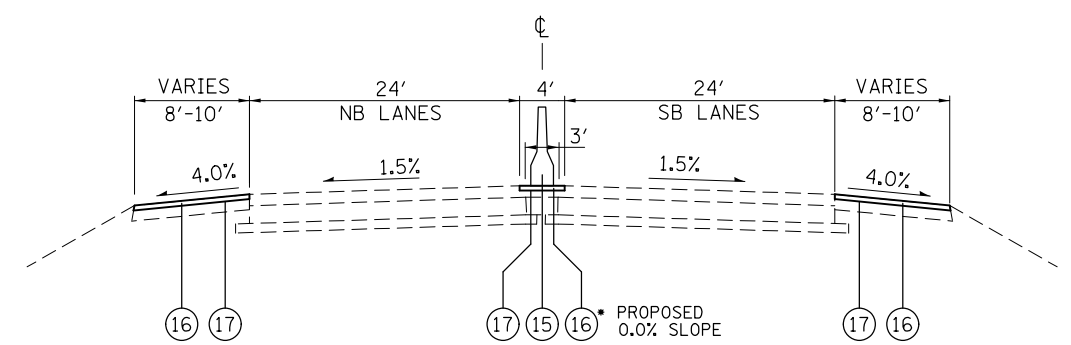
TYPICAL SECTION
STA. 148+83.37 TO STA. 153+14



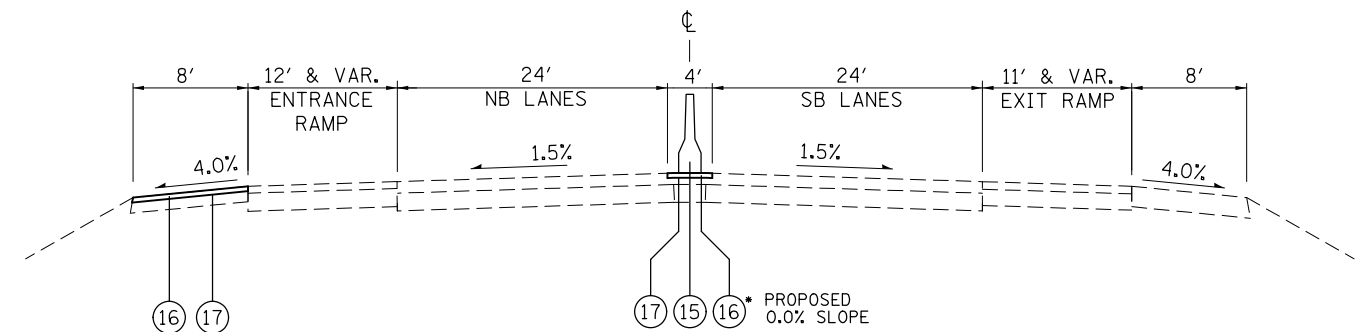
TYPICAL SECTION
STA. 153+14 TO STA. 157+83
SHOULDER TREATMENT:
LEFT START STA. 155+63.05
CENTER END STA. 154+14.64 (6' WIDTH) (14)
START STA. 154+14.64 (4' WIDTH) (15)
RIGHT START STA. 155+63.05

LEGEND

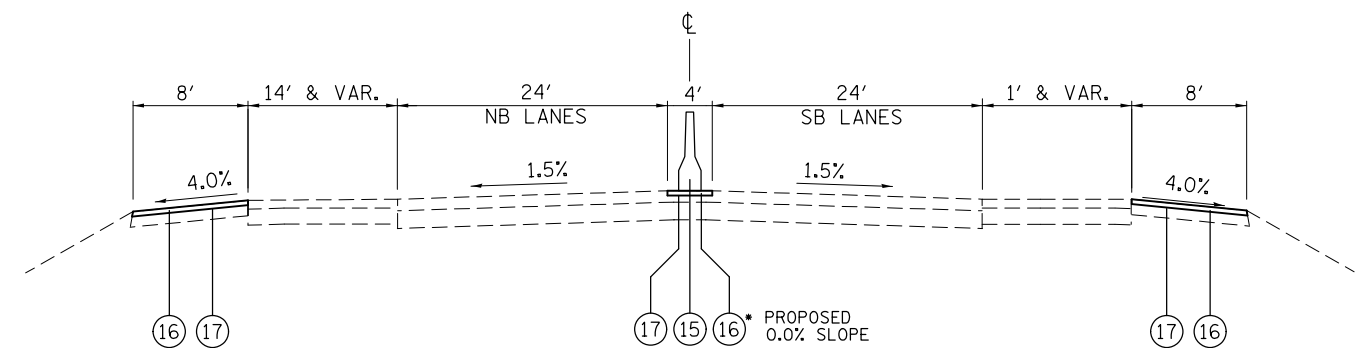
- (14) PROPOSED CONCRETE BARRIER, DOUBLE FACED, 32" HEIGHT
- (15) PROPOSED TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY)
- (16) PROPOSED HMA SHOULDERS, 2"
- (17) PROPOSED BITUMINOUS MATERIAL (TACK COAT)



TYPICAL SECTION
STA. 157+83 TO STA. 159+33
BRIDGE OMISSION STA. 159+33.06 TO STA. 160+90.56
SHOULDER TREATMENT:
LEFT END STA. 159+16.13
CENTER END STA. 159+08.05
RIGHT END STA. 158+58.05

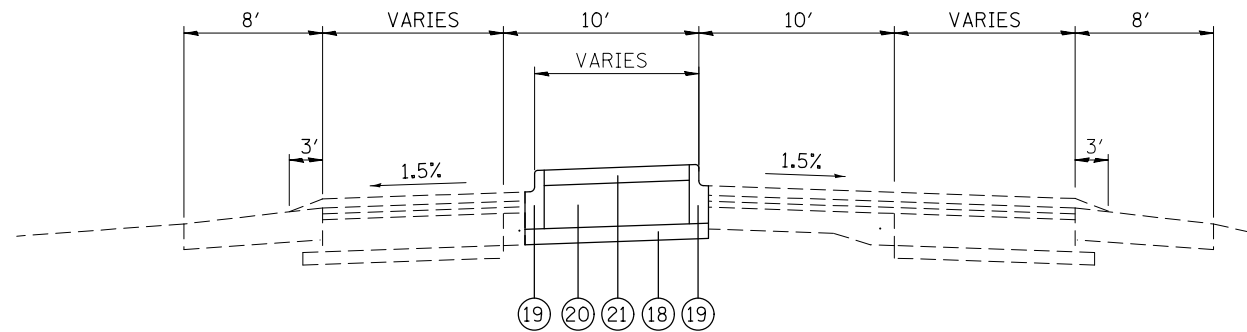


TYPICAL SECTION
STA. 160+90.50 TO STA. 161+51.78
STA. EQU.: STA. 161+51.78 BK = STA. 224+00 AH
STA. 224+00 TO STA. 228+07.70 EB
STA. 224+00 TO STA. 229+38.64 WB
SHOULDER TREATMENT:
LEFT START STA. 229+37.04
CENTER START STA. 161+15.55



TYPICAL SECTION
STA. 228+07.70 TO STA. 240+65.40 EB
STA. 229+38.64 TO STA. 240+65.40 WB
BRIDGE OMISSION STA. 233+81.95 TO STA. 235+35.39
SHOULDER TREATMENT:
LEFT END STA. 233+21.00
START STA. 234+84.23
END STA. 237+76.94
CENTER START STA. 161+15.55
END STA. 233+25.39
START STA. 235+31.98
END STA. 240+65.40
RIGHT START STA. 228+08.17
END STA. 232+32.04
START STA. 234+93.02
END STA. 237+76.94

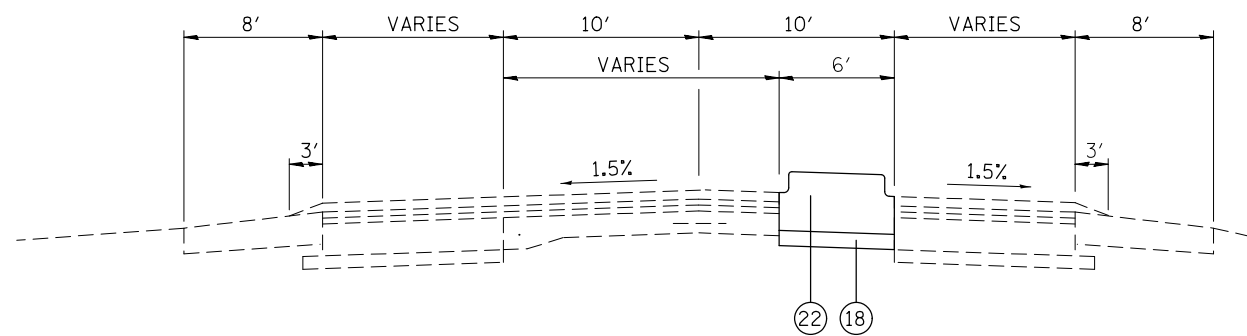
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pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 8\Projects\0876\DRAWING\DATA\CAD\Sheets\d876J01-sht-pln.dwg	PLotted SCALE = 100.0000' / in.	CHECKED -	REVISED -				103	28-1BR-1, 28-IHBR-1	ST. CLAIR	62	11
	DATE = 1/19/2017	DATE -	REVISED -				CONTRACT NO. 76J01				
							ILLINOIS FED. AID PROJECT				
				SCALE: N.T.S.	SHEET 1 OF 2 SHEETS	STA. TO STA.					



TYPICAL SECTION

STA. 306+73 TO STA. 308+40
 STA. 308+80 TO STA. 310+45
 STA. 315+76 TO STA. 320+56

- LEGEND**
- (18) PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 5"
 - (19) PROPOSED COMBINATION CURB & GUTTER, TYPE B-6.06
 - (20) PROPOSED COARSE AGGREGATE FILL
 - (21) PROPOSED CONCRETE MEDIAN SURFACE, 4 INCH
 - (22) PROPOSED CONCRETE MEDIAN, TYPE SB-6.06



TYPICAL SECTION

STA. 311+11.07 TO STA. 315+15.47

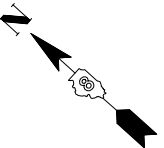
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

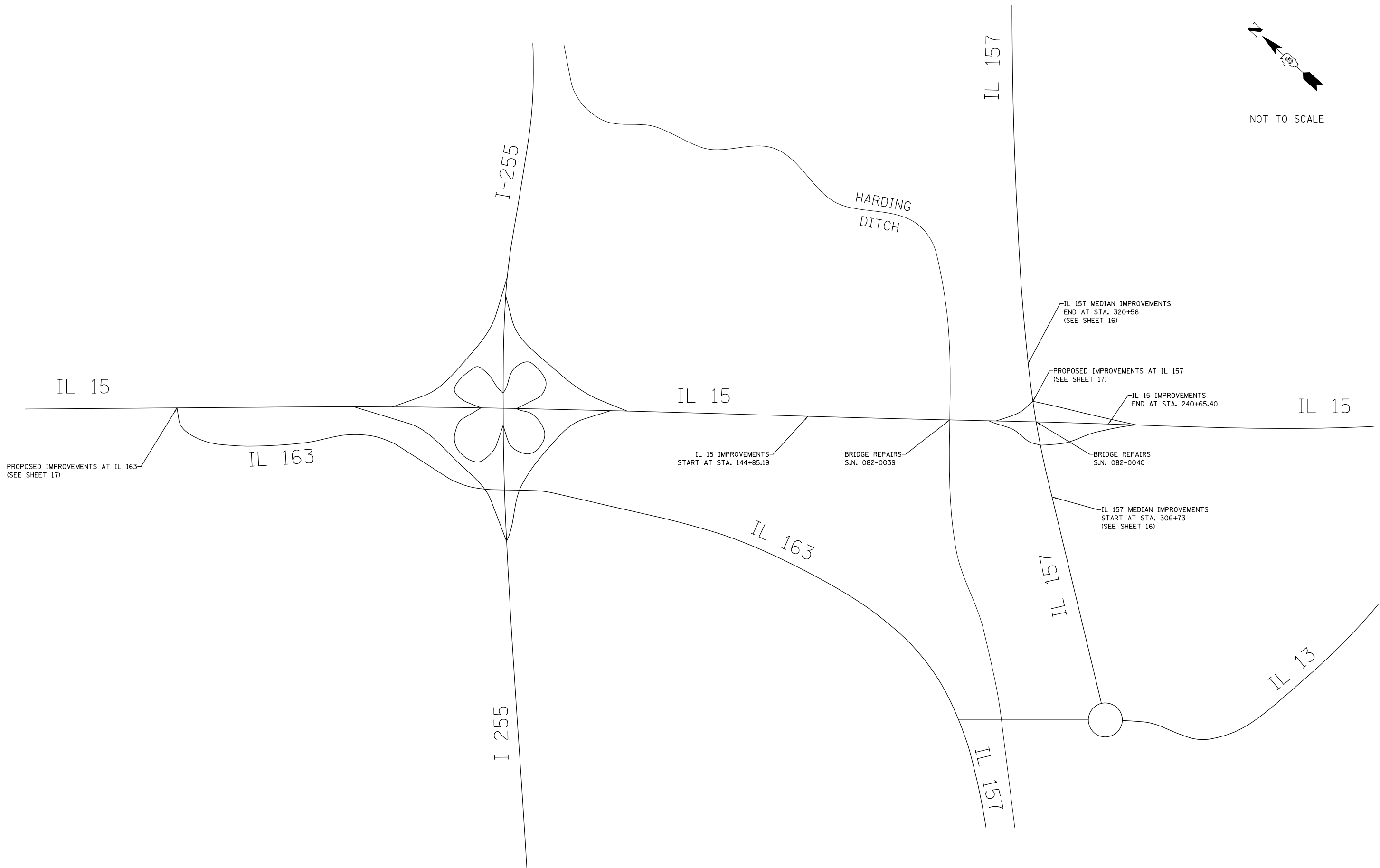
**PROPOSED TYPICAL SECTIONS
 (IL 157)**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-IHBR-1	ST. CLAIR	62	12
				CONTRACT NO. 76J01
ILLINOIS FED. AID PROJECT				



NOT TO SCALE



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	PLOT DATE = 1/19/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

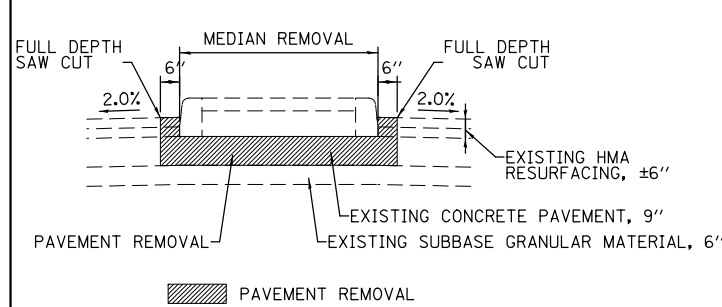
LOCATION MAP

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

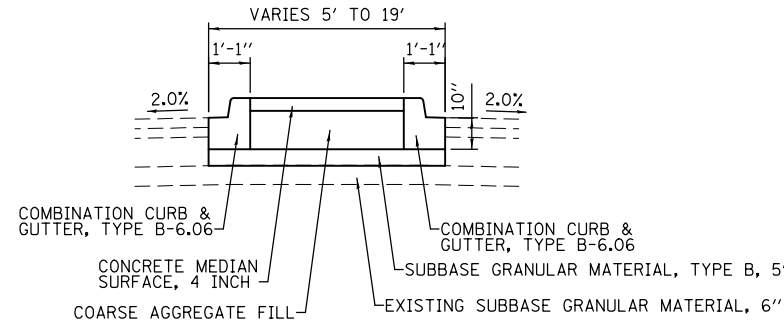
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				

NOTES

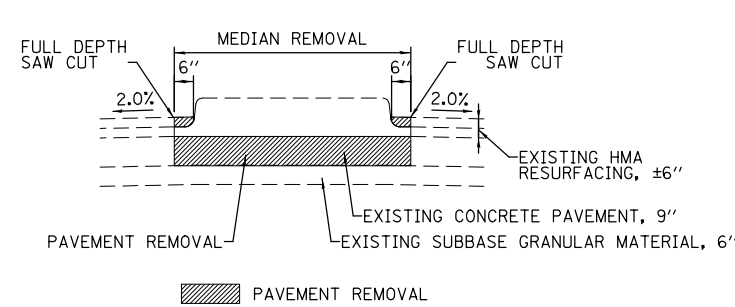
1. SUBBASE GRANULAR MATERIAL, TYPE B, 5" SHALL BE APPLIED IMMEDIATELY FOLLOWING EXISTING CONCRETE PAVEMENT REMOVAL, 9".
2. GUTTER FLAGS SHALL BE SLOPED 2.0% AWAY FROM THE MEDIAN.
3. TRAFFIC CONTROL FOR THIS WORK SHALL BE ACCORDING TO HIGHWAY STANDARD 701501.



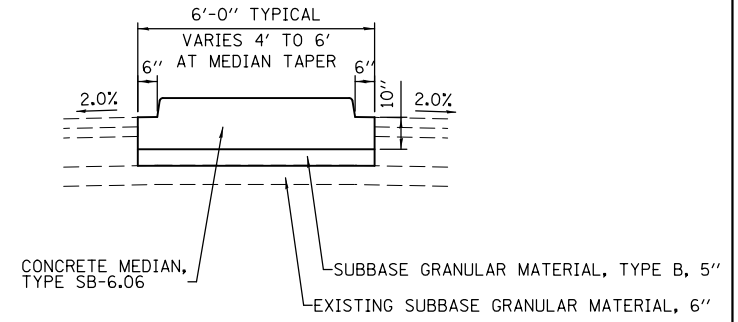
EXISTING MEDIAN DETAIL
(MEDIANS 1, 2, & 4)
NOT TO SCALE



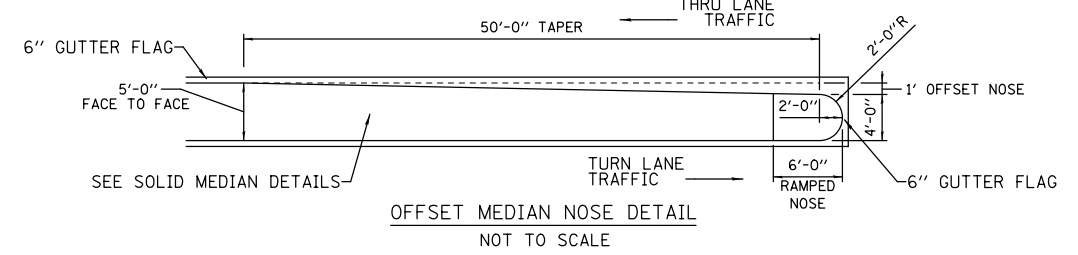
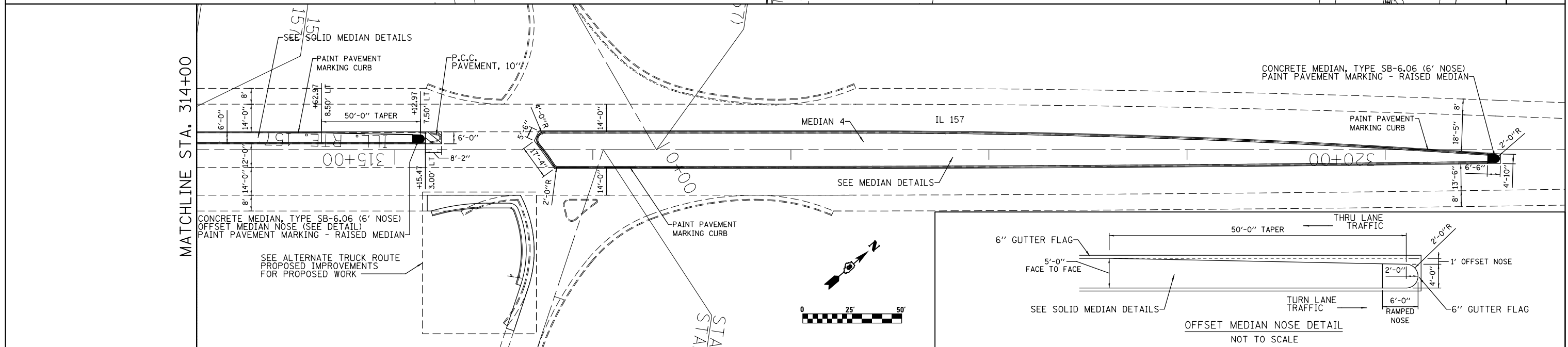
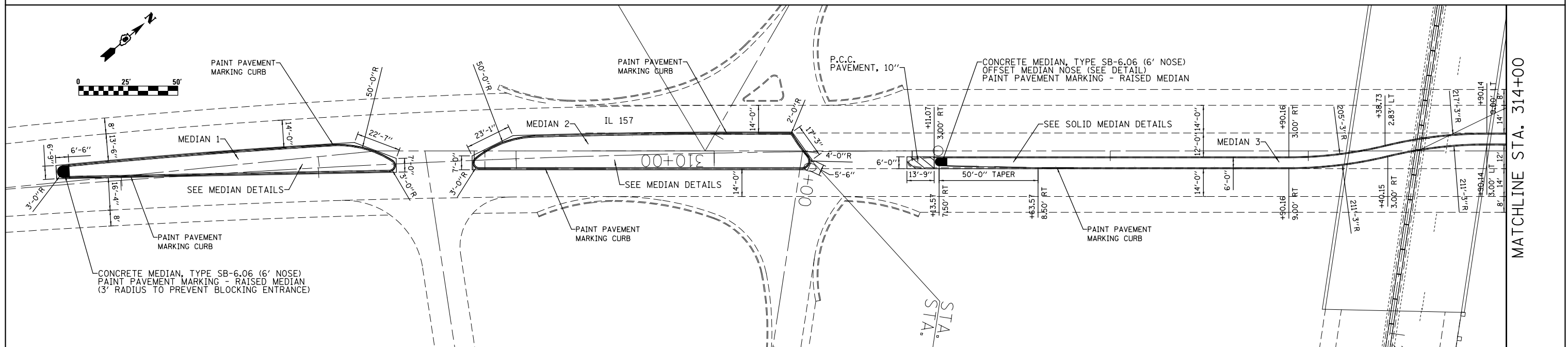
PROPOSED MEDIAN DETAIL
(MEDIANS 1, 2, & 4)
NOT TO SCALE



EXISTING SOLID MEDIAN DETAIL
(MEDIAN 3)
NOT TO SCALE



PROPOSED SOLID MEDIAN DETAIL
(MEDIAN 3)
NOT TO SCALE



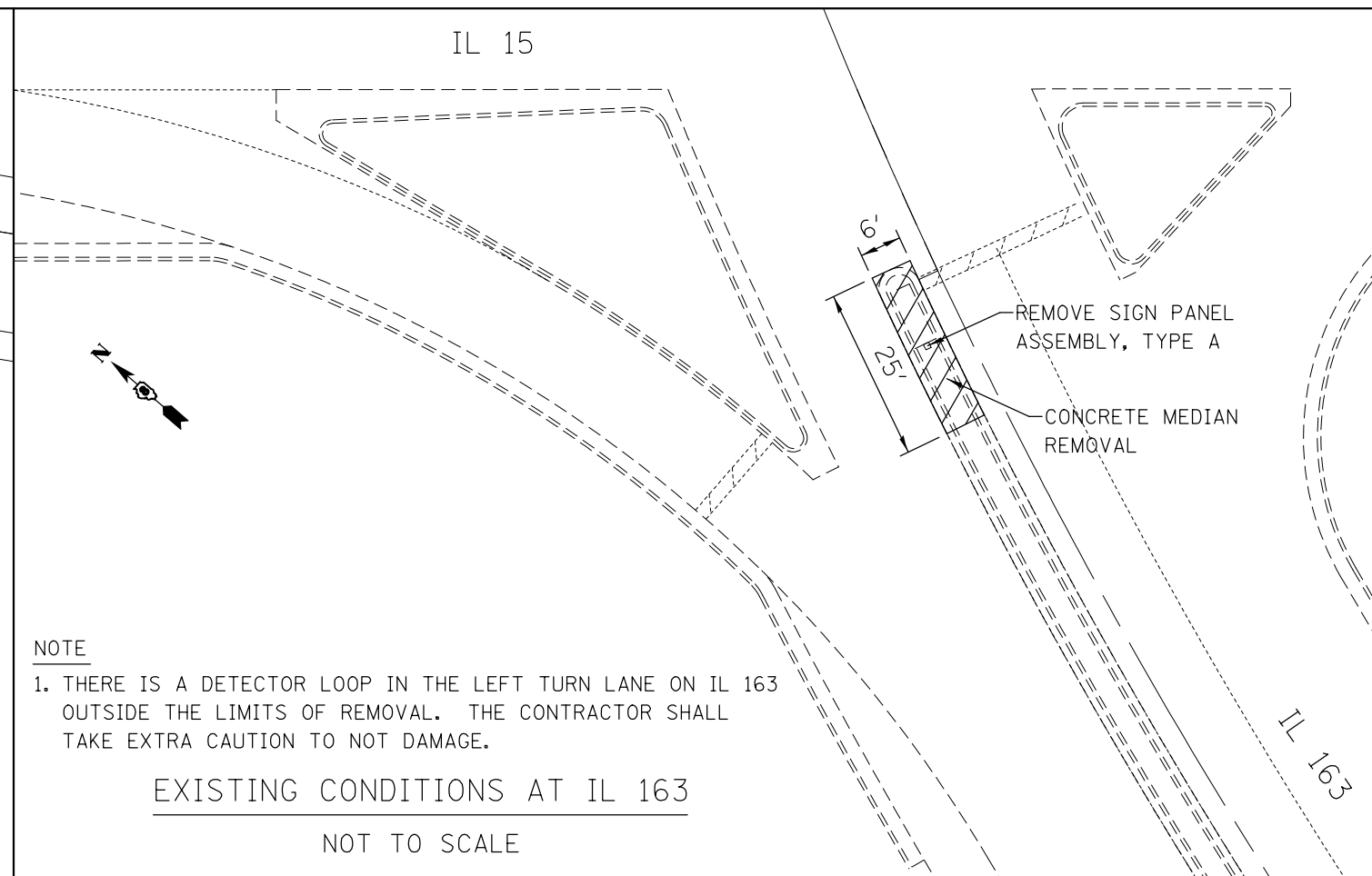
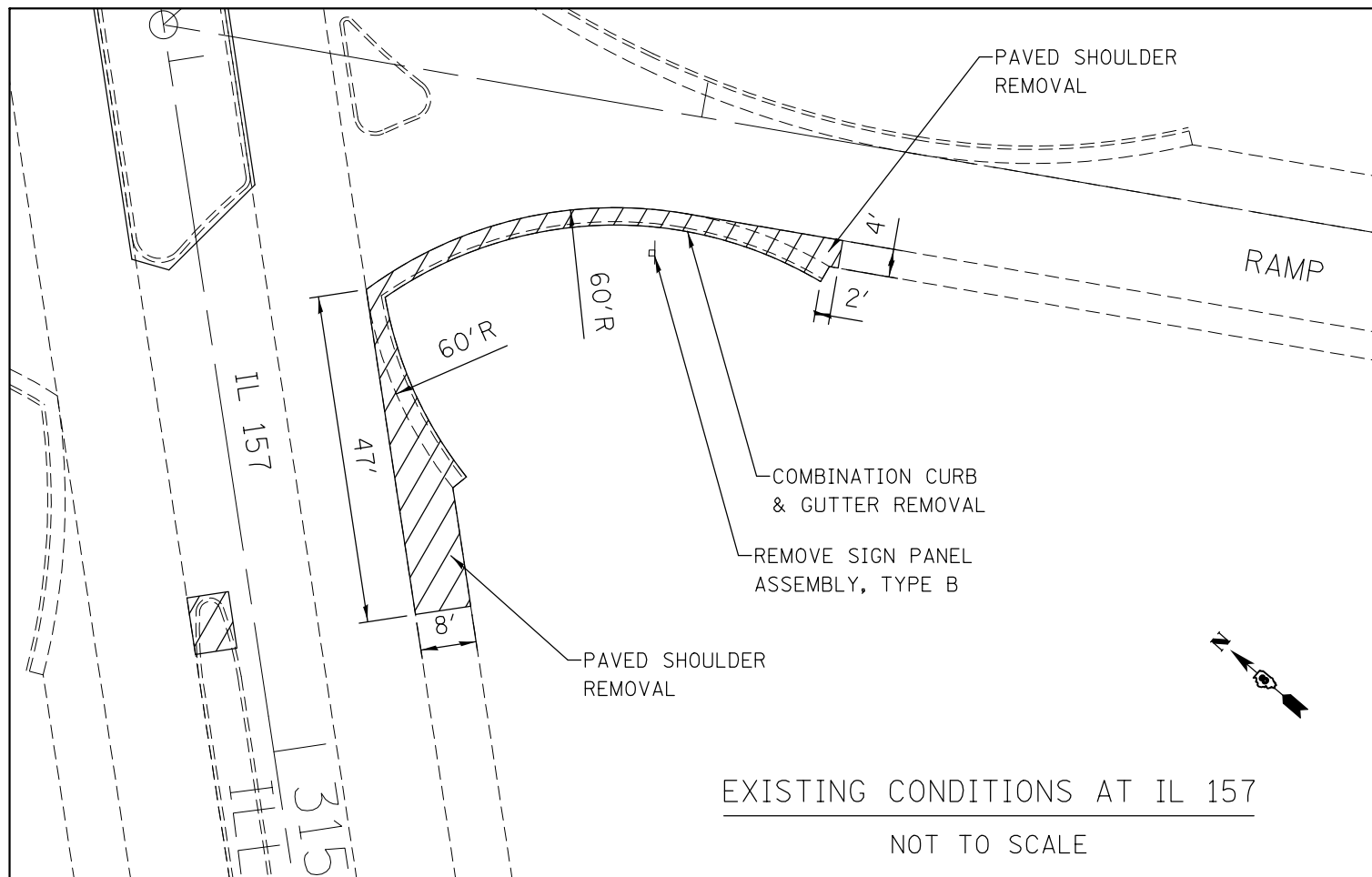
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 157 MEDIAN IMPROVEMENTS PLAN

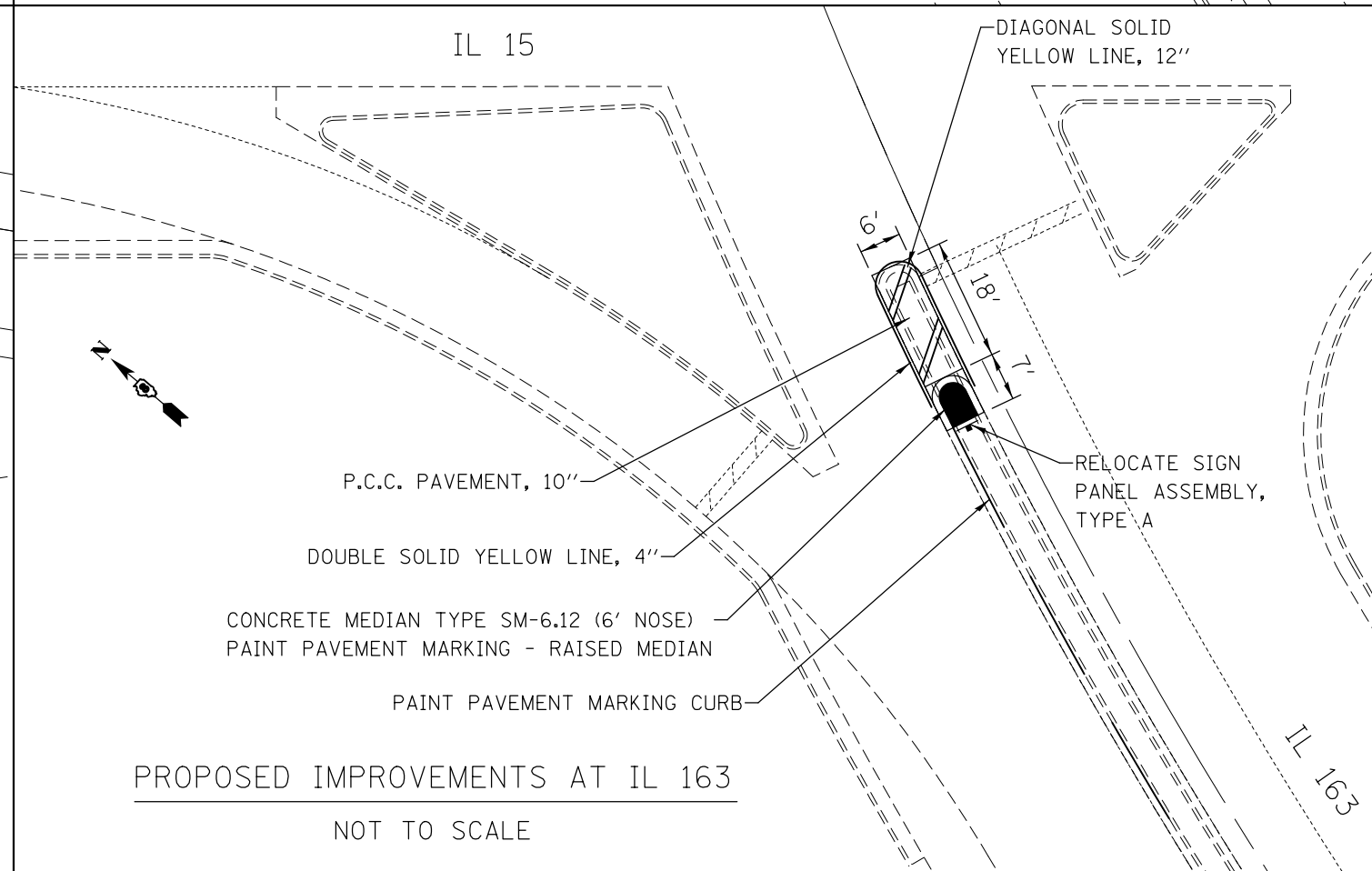
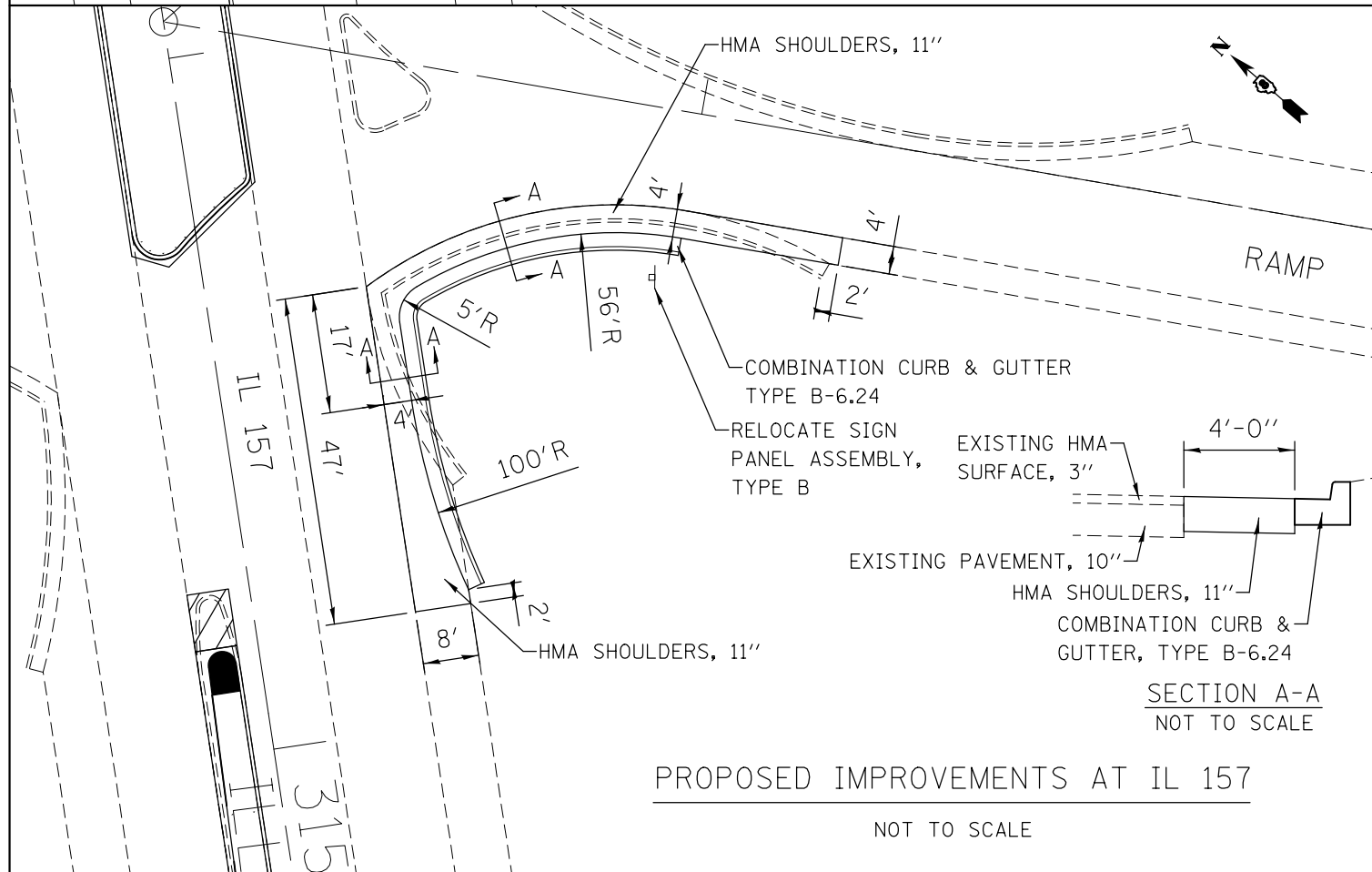
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-1HBR-1	ST. CLAIR	62	16
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



NOTE

1. THERE IS A DETECTOR LOOP IN THE LEFT TURN LANE ON IL 163 OUTSIDE THE LIMITS OF REMOVAL. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO NOT DAMAGE.



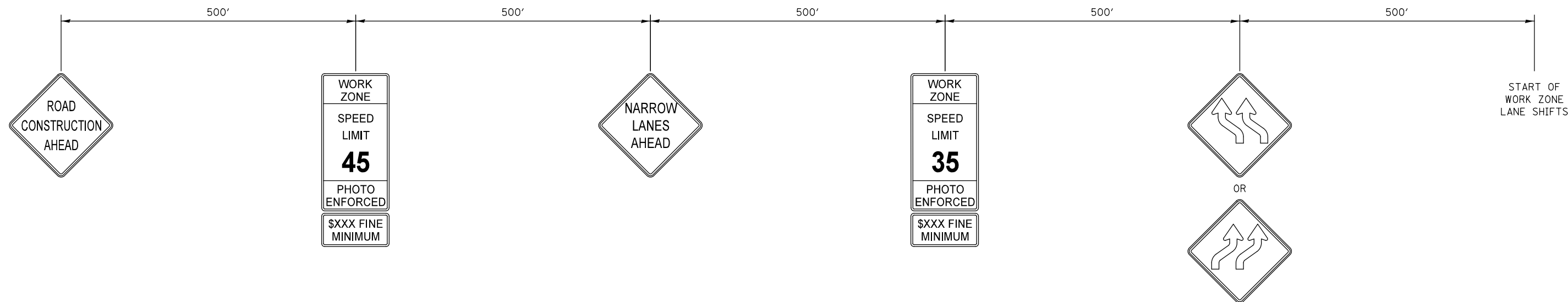
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	PLOT SCALE = 25.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/19/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALTERNATE TRUCK ROUTE
PROPOSED IMPROVEMENTS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-1HBR-1	ST. CLAIR	62	17
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



SIGNING FOR APPROACH TO WORK ZONE LANE SHIFTS
 (TO BE USED FOR WESTBOUND AND EASTBOUND)
 SIGNING SHALL BE PLACED AT 500' SPACING OR AS DIRECTED BY ENGINEER.

NOTE:

1. ALL WORK ON IL 157 AND IL 163 SHALL BE COMPLETED PRIOR TO WORK ON IL 15.

SUGGESTED SEQUENCE OF CONSTRUCTION

PRE-STAGE CONSTRUCTION

1. PRE-STAGE CONSTRUCTION SHALL CONSIST OF: BARRIER REMOVAL, MILLING AND RESURFACING THE EXISTING SHOULDERS TO ADEQUATELY HANDLE CONSTRUCTION STAGED TRAFFIC.
2. TRAFFIC CONTROL FOR THIS WORK WILL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARDS 701411 AND 701421 AND AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE I CONSTRUCTION

1. STAGE I CONSTRUCTION SHALL CONSIST OF: STAGE I BRIDGE REPAIRS AS DETAILED ON THE PLANS; REMOVAL AND REPLACEMENT OF THE WIDE FLANGE BEAM JOINTS AT THE END OF THE BRIDGE APPROACH PAVEMENT; CONCRETE MEDIAN REPAIR; AND THE BRIDGE WATERPROOF MEMBRANE APPLICATION.
2. TRAFFIC CONTROL FOR THIS WORK WILL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION SPECIAL PROVISION AND AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE II CONSTRUCTION

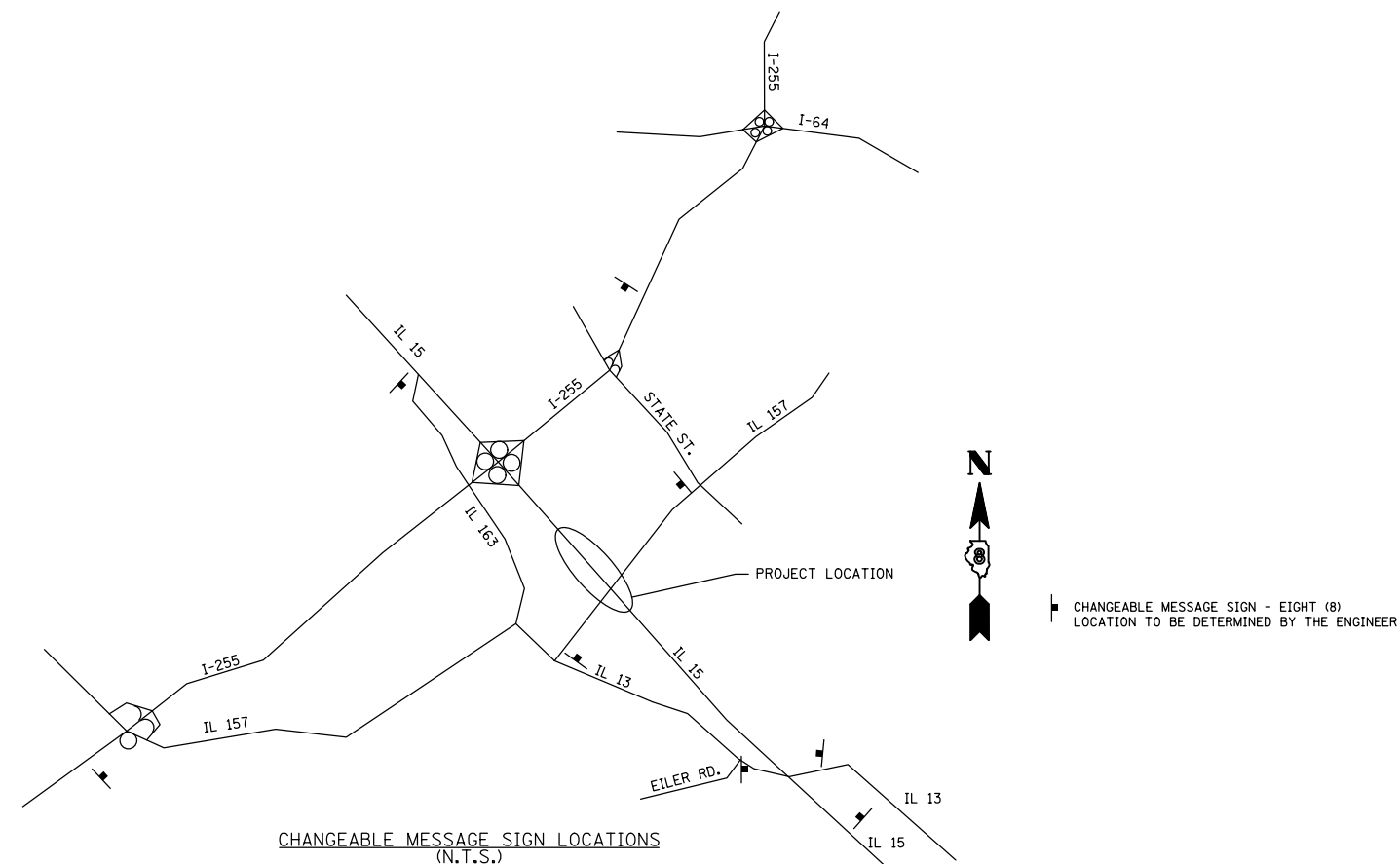
1. STAGE II CONSTRUCTION SHALL CONSIST OF: STAGE II BRIDGE REPAIRS AS DETAILED ON THE PLANS; REMOVAL AND REPLACEMENT OF THE WIDE FLANGE BEAM JOINTS AT THE END OF THE BRIDGE APPROACH PAVEMENT; CONCRETE MEDIAN REPAIR; AND THE BRIDGE WATERPROOF MEMBRANE APPLICATION.
2. TRAFFIC CONTROL FOR THIS WORK WILL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION SPECIAL PROVISION AND AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE III CONSTRUCTION

1. STAGE III CONSTRUCTION SHALL CONSIST OF: STAGE III BRIDGE REPAIRS AS DETAILED ON THE PLANS; REMOVAL AND REPLACEMENT OF THE WIDE FLANGE BEAM JOINTS AT THE END OF THE BRIDGE APPROACH PAVEMENT; CONCRETE MEDIAN REPAIR; AND THE BRIDGE WATERPROOF MEMBRANE APPLICATION.
2. TRAFFIC CONTROL FOR THIS WORK WILL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION SPECIAL PROVISION AND AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

POST-STAGE CONSTRUCTION

1. FINAL STAGE CONSTRUCTION SHALL CONSIST OF: BARRIER REMOVAL, MILLING AND RESURFACING THE EXISTING SHOULDERS, AND PLACING PROPOSED CONCRETE BARRIERS.
2. TRAFFIC CONTROL FOR THIS WORK WILL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARDS 701411 AND 701421 AND AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



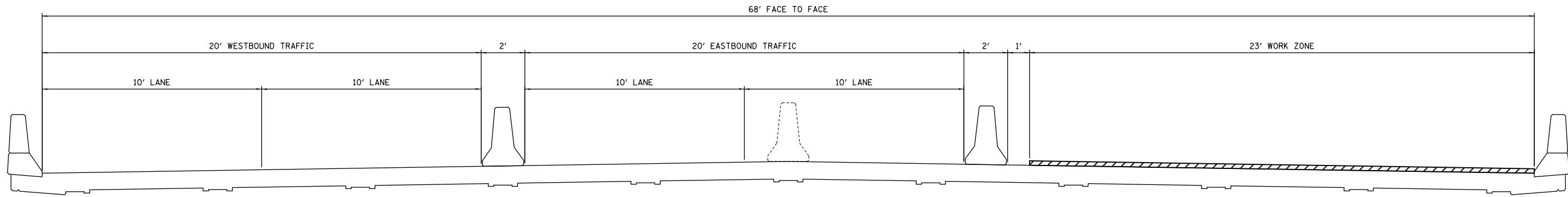
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

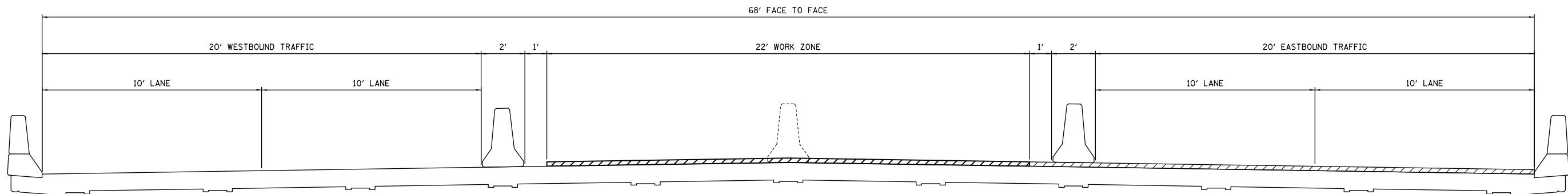
**SUGGESTED STAGE CONSTRUCTION
AND TRAFFIC CONTROL**

SCALE: SHEET 1 OF 11 SHEETS STA. TO STA.

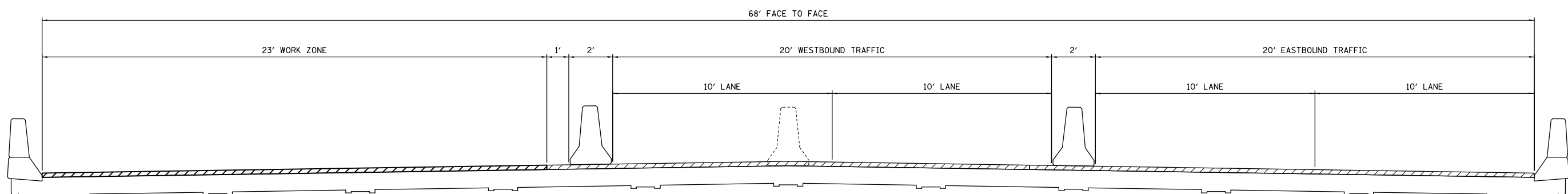
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-IBR-1, 28-IHBR-1	ST. CLAIR	62	18
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



STAGE 1 CONSTRUCTION
(LOOKING EASTBOUND)



STAGE 2 CONSTRUCTION
(LOOKING EASTBOUND)

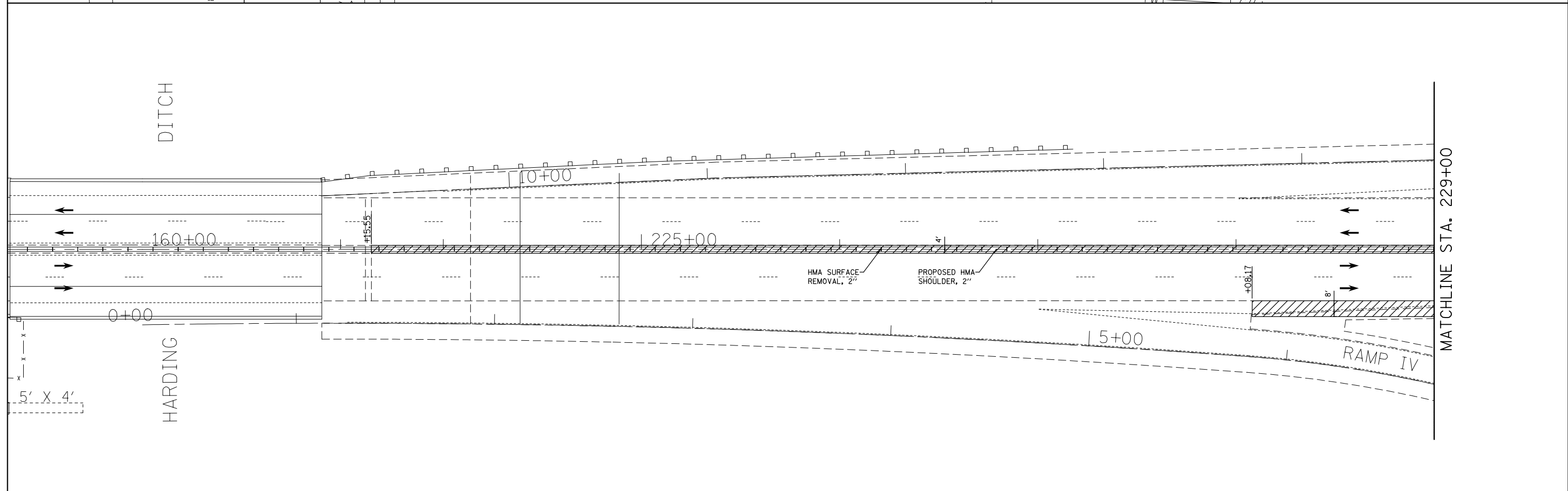
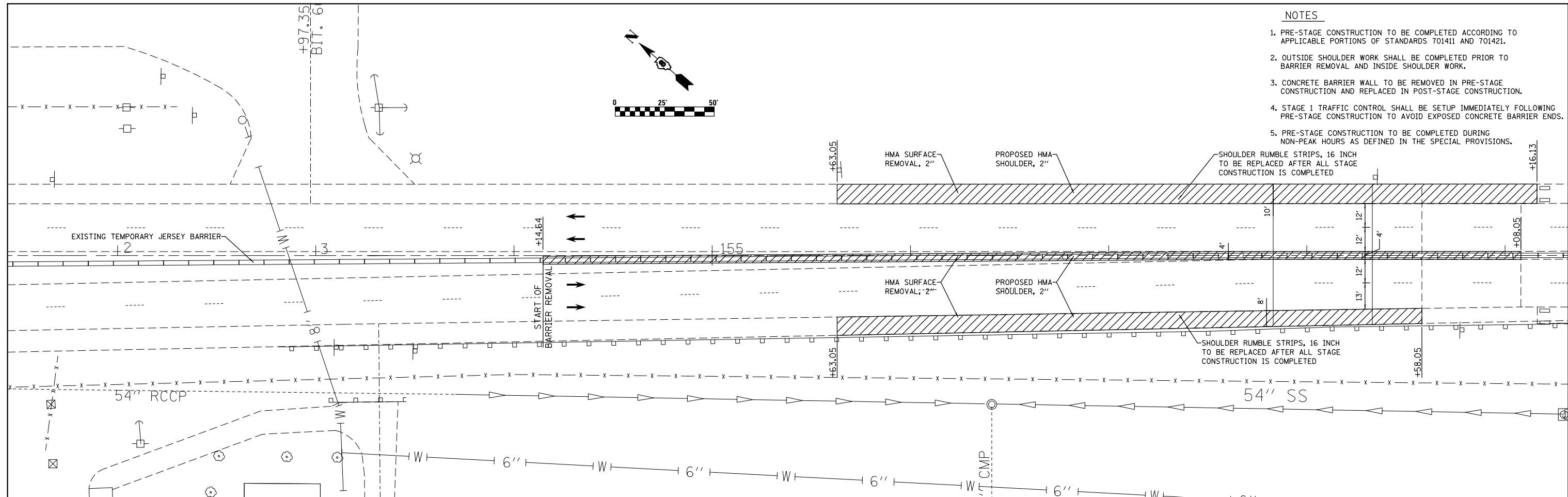


STAGE 3 CONSTRUCTION
(LOOKING EASTBOUND)

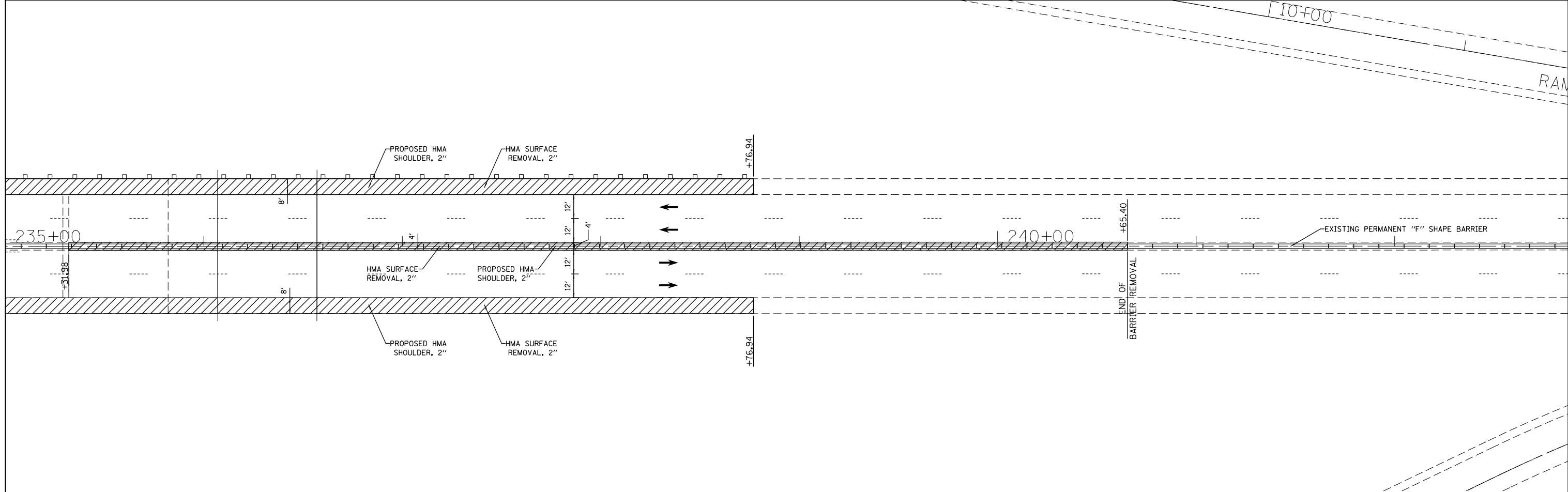
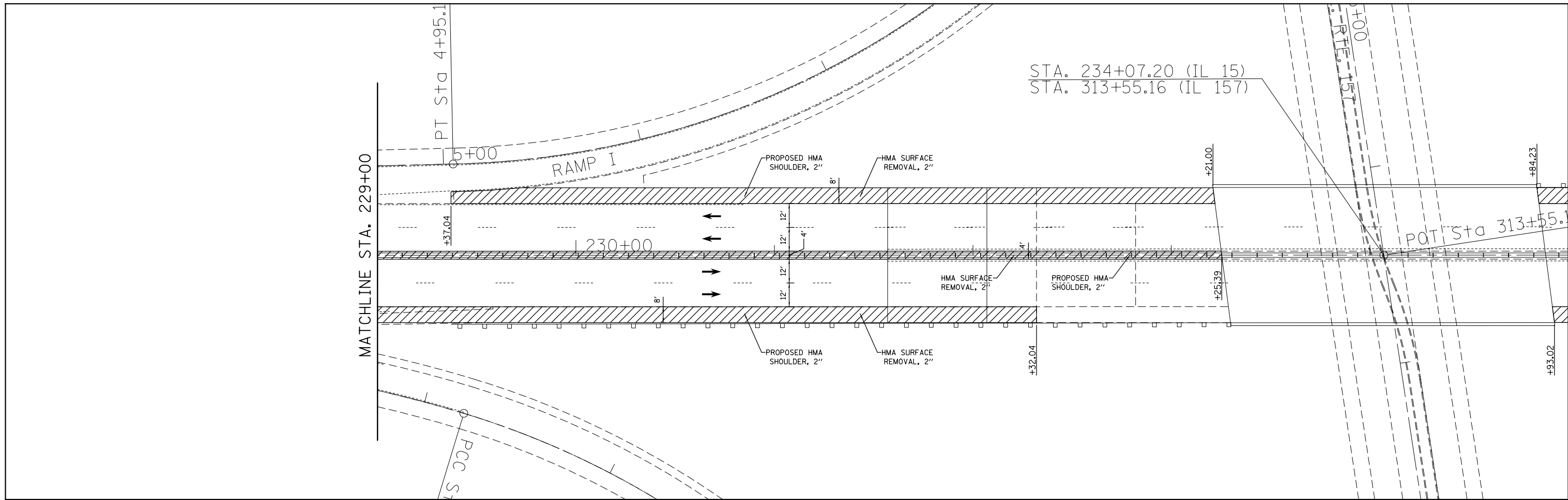
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pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 8\Projects\0876\DRAWING\DATA\CADsheets\d876j01-sht-pland	PLotted SCALE = 50.0000' / in.	CHECKED -	REVISED -				103	28-1BR-1, 28-IHBR-1	ST. CLAIR	62	19
PLOT DATE = 1/19/2017	DATE -	REVISED -	REVISED -		SCALE: SHEET 2 OF 11 SHEETS STA. TO STA.		CONTRACT NO. 76J01				
							ILLINOIS FED. AID PROJECT				

NOTES

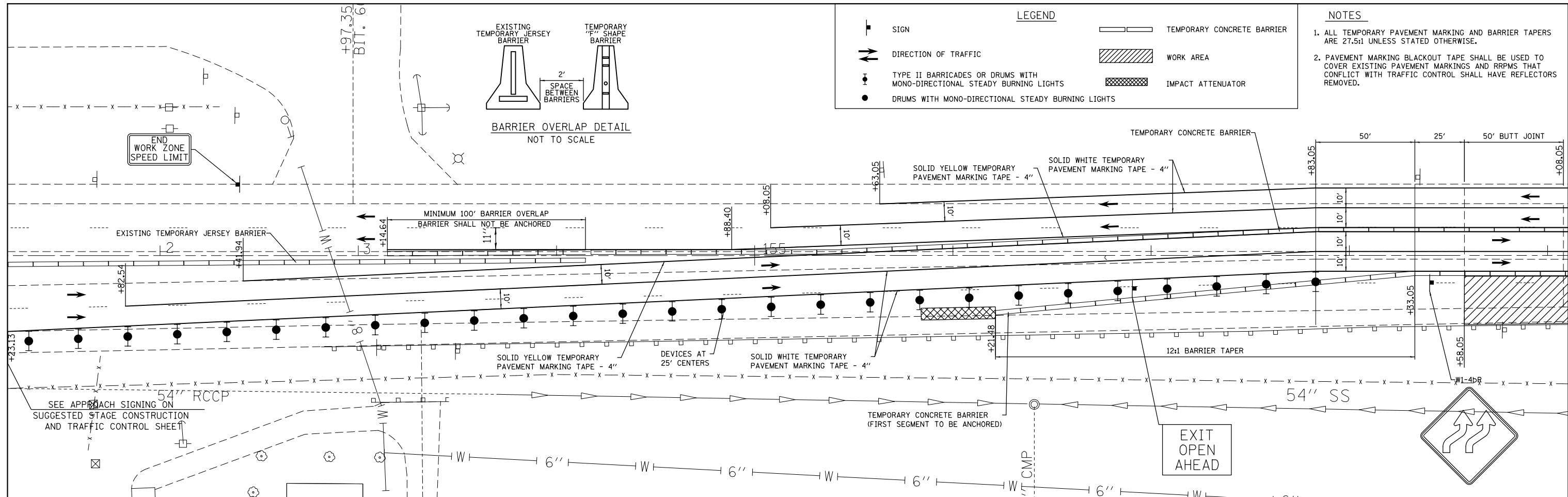
1. PRE-STAGE CONSTRUCTION TO BE COMPLETED ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701411 AND 701421.
2. OUTSIDE SHOULDER WORK SHALL BE COMPLETED PRIOR TO BARRIER REMOVAL AND INSIDE SHOULDER WORK.
3. CONCRETE BARRIER WALL TO BE REMOVED IN PRE-STAGE CONSTRUCTION AND REPLACED IN POST-STAGE CONSTRUCTION.
4. STAGE 1 TRAFFIC CONTROL SHALL BE SETUP IMMEDIATELY FOLLOWING PRE-STAGE CONSTRUCTION TO AVOID EXPOSED CONCRETE BARRIER ENDS.
5. PRE-STAGE CONSTRUCTION TO BE COMPLETED DURING NON-PEAK HOURS AS DEFINED IN THE SPECIAL PROVISIONS.



FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-STAGE CONSTRUCTION AND TRAFFIC CONTROL		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLLOT DATE = 1/19/2017	DATE -	REVISED -	REVISED -		CONTRACT NO. 76J01			ILLINOIS FED. AID PROJECT			
					SCALE:	SHEET 3	OF 11 SHEETS	STA.	TO STA.		



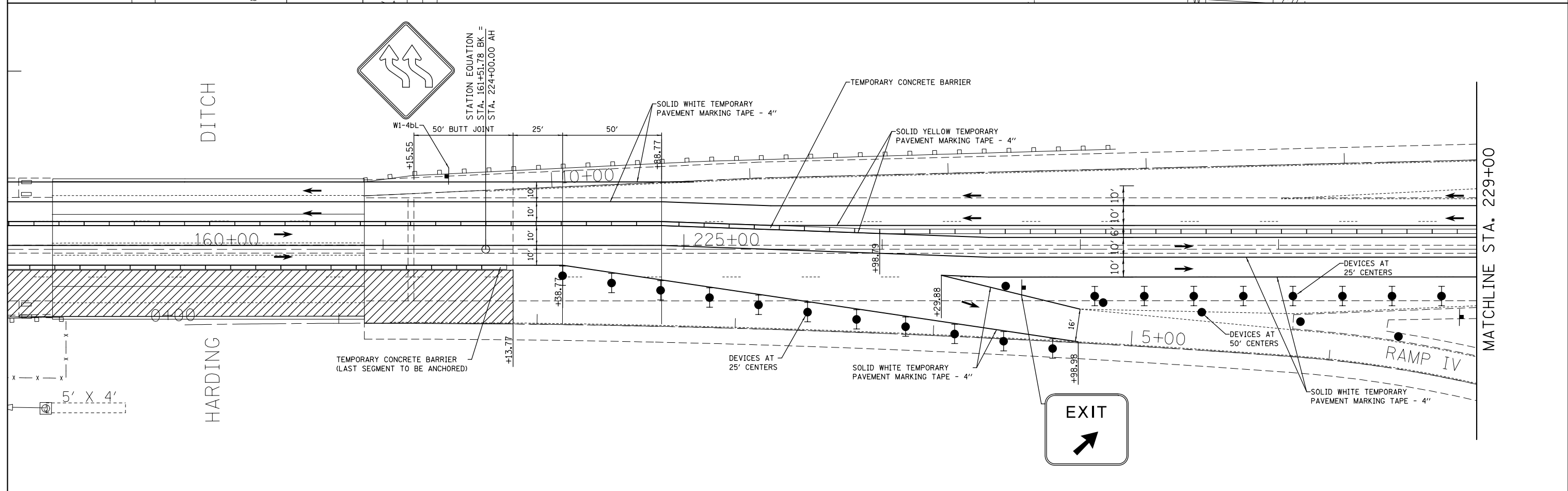
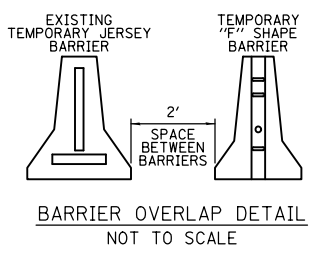
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PLOT DATE = 1/19/2017	DATE -	REVISED -	REVISED -		CONTRACT NO. 76J01			ILLINOIS FED. AID PROJECT			
					SCALE:	SHEET 4 OF 11 SHEETS	STA. TO STA.				



LEGEND

- SIGN
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
- DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
- TEMPORARY CONCRETE BARRIER
- WORK AREA
- IMPACT ATTENUATOR

- NOTES**
- ALL TEMPORARY PAVEMENT MARKING AND BARRIER TAPERS ARE 27.5:1 UNLESS STATED OTHERWISE.
 - PAVEMENT MARKING BLACKOUT TAPE SHALL BE USED TO COVER EXISTING PAVEMENT MARKINGS AND RRPMs THAT CONFLICT WITH TRAFFIC CONTROL. SHALL HAVE REFLECTORS REMOVED.

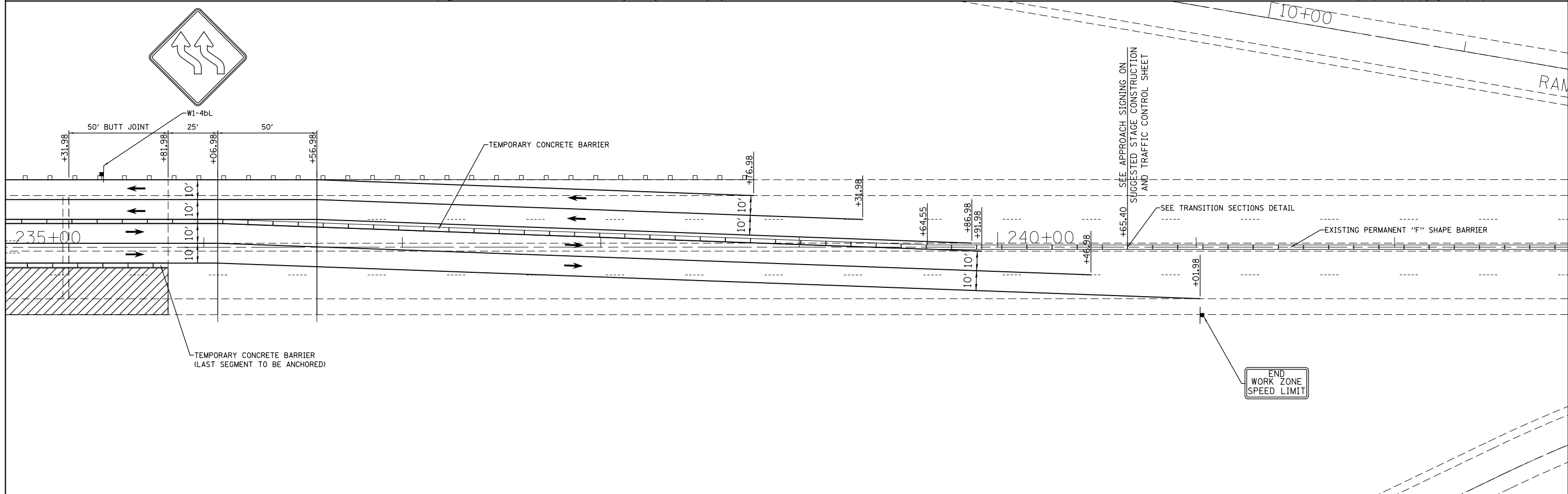
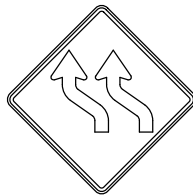
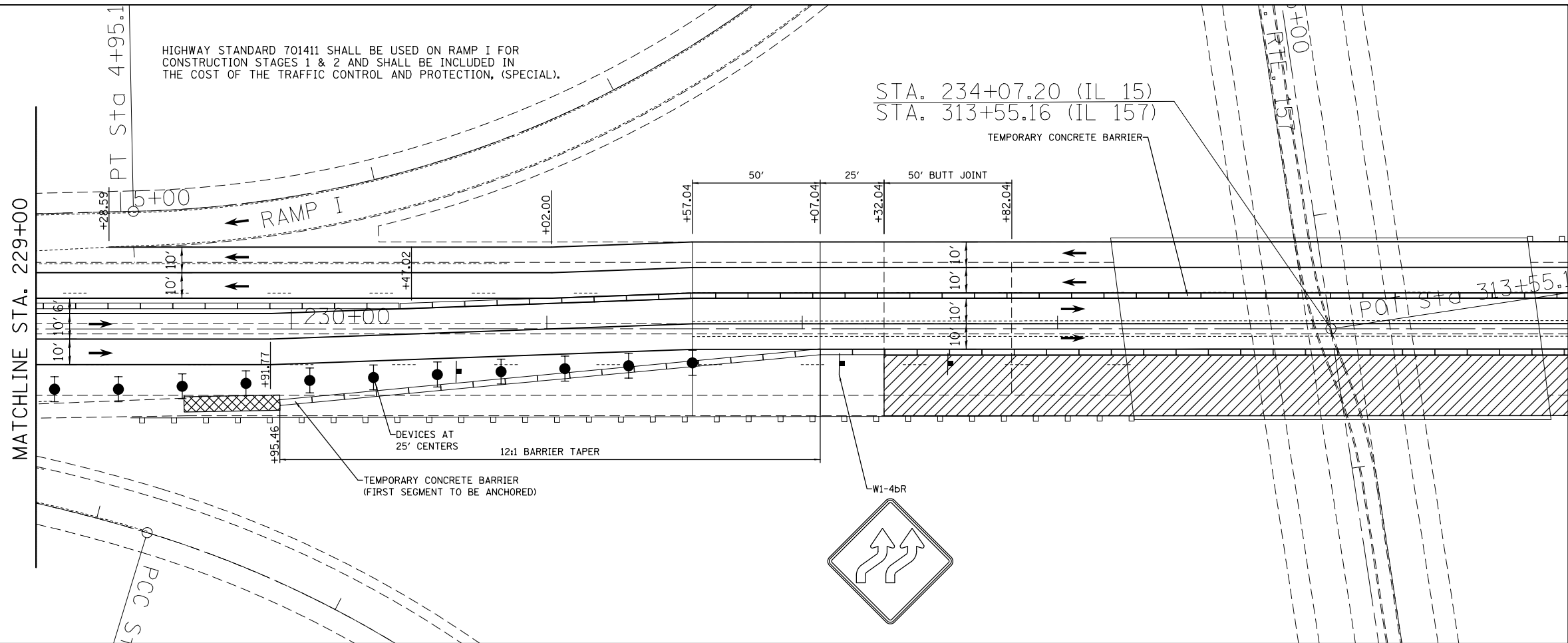


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PLLOT DATE = 1/19/2017	DATE -	REVISED -	REVISED -			CONTRACT NO. 76J01					
						ILLINOIS FED. AID PROJECT					

HIGHWAY STANDARD 701411 SHALL BE USED ON RAMP I FOR CONSTRUCTION STAGES 1 & 2 AND SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

STA. 234+07.20 (IL 15)
STA. 313+55.16 (IL 157)

MATCHLINE STA. 229+00

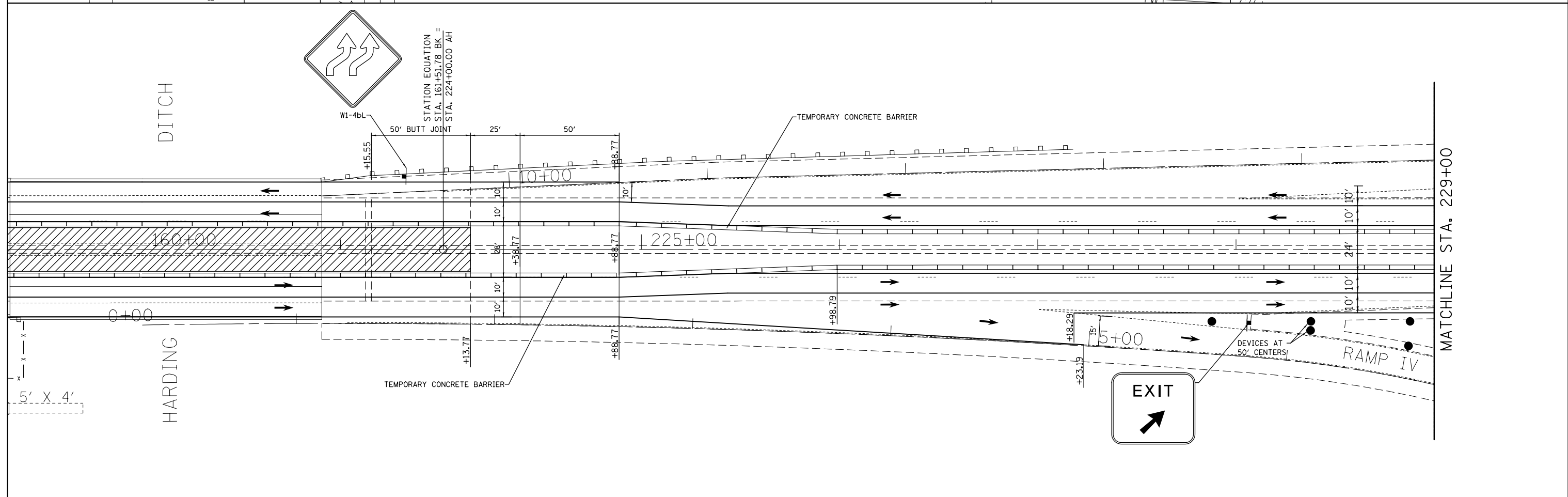
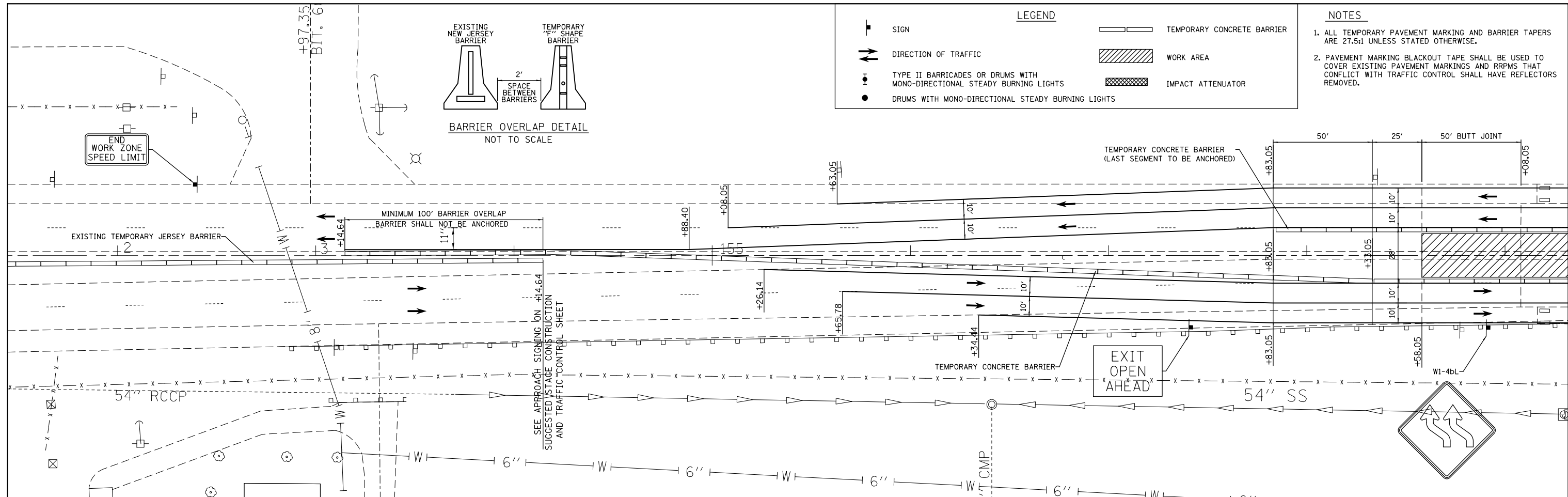


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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		STAGE 1 CONSTRUCTION AND TRAFFIC CONTROL	
		SHEET 6 OF 11 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				

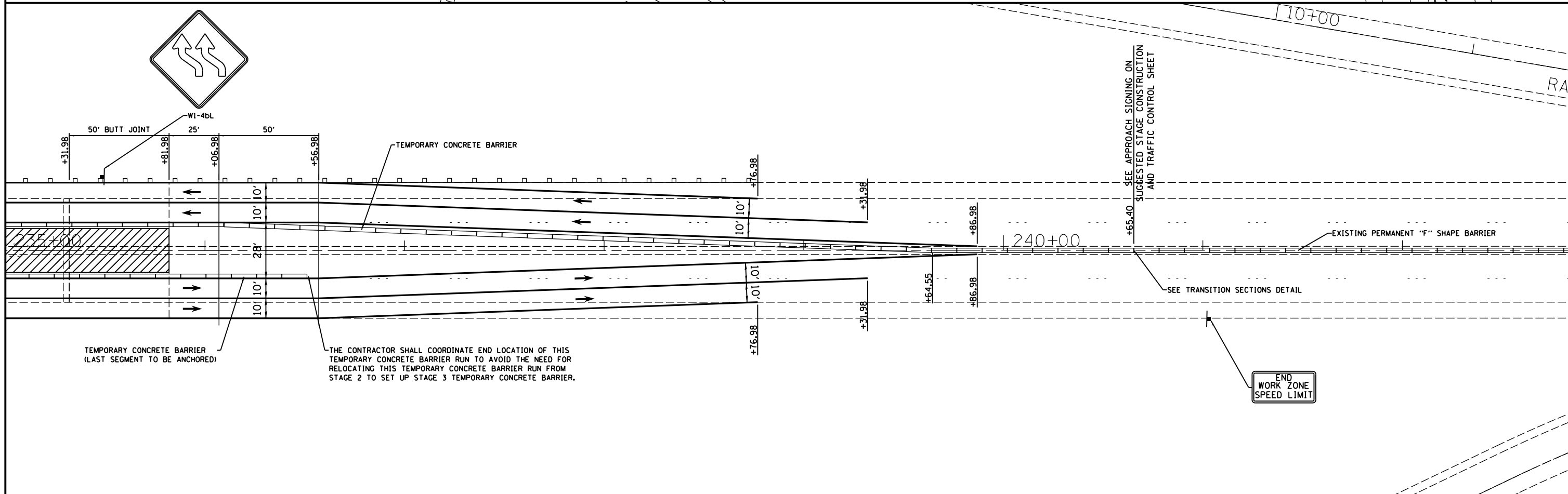
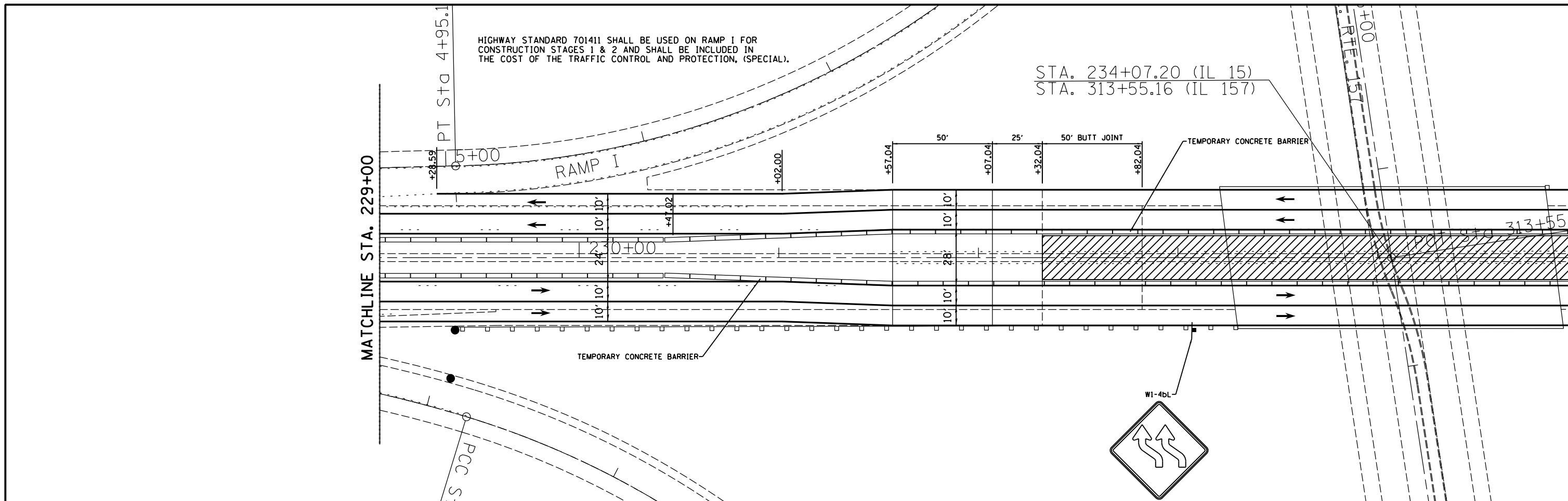


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PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 76J01							
PLOT DATE = 1/19/2017	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

HIGHWAY STANDARD 701411 SHALL BE USED ON RAMP I FOR CONSTRUCTION STAGES 1 & 2 AND SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

STA. 234+07.20 (IL 15)
STA. 313+55.16 (IL 157)

MATCHLINE STA. 229+00



THE CONTRACTOR SHALL COORDINATE END LOCATION OF THIS TEMPORARY CONCRETE BARRIER RUN TO AVOID THE NEED FOR RELOCATING THIS TEMPORARY CONCRETE BARRIER RUN FROM STAGE 2 TO SET UP STAGE 3 TEMPORARY CONCRETE BARRIER.

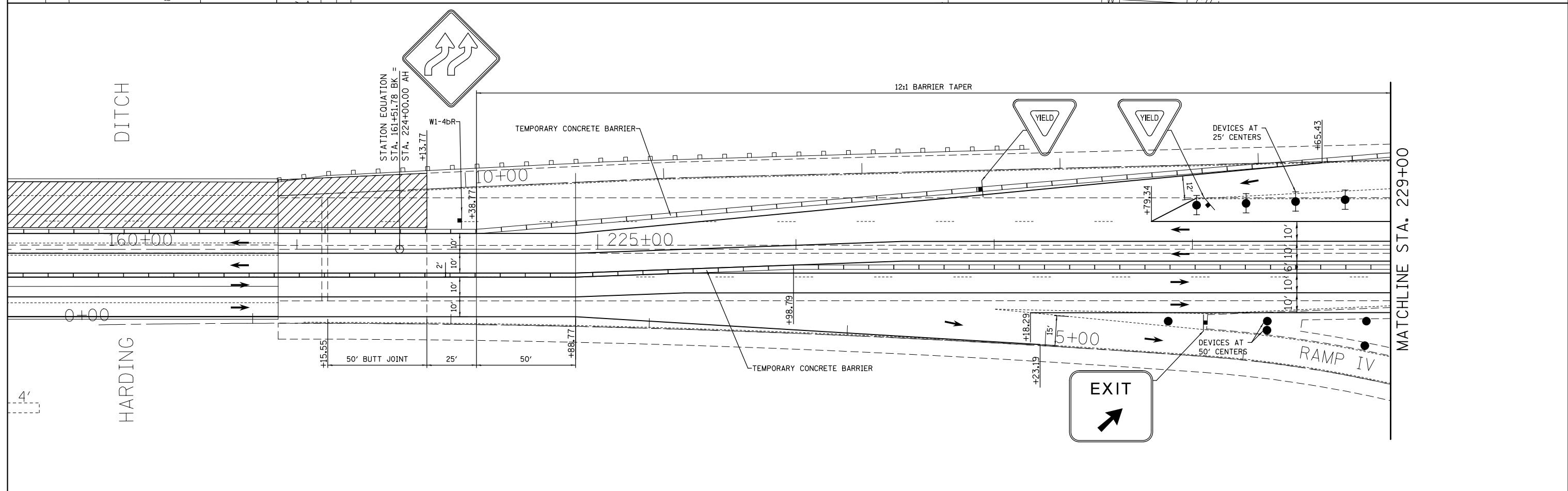
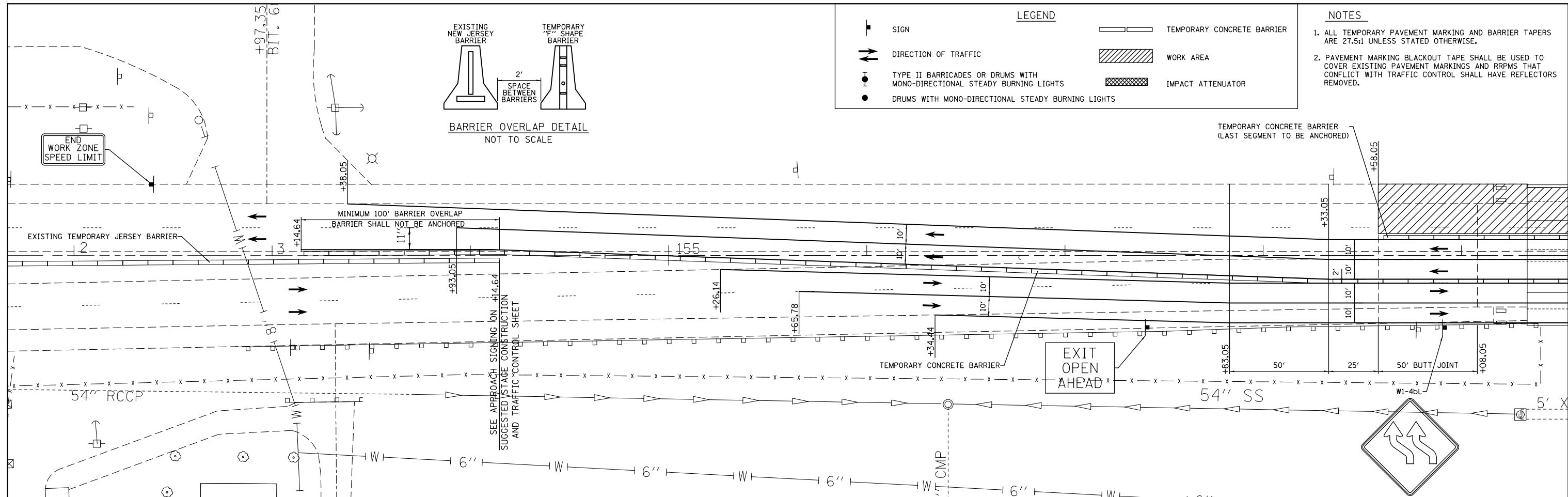
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	PLOT DATE = 1/23/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

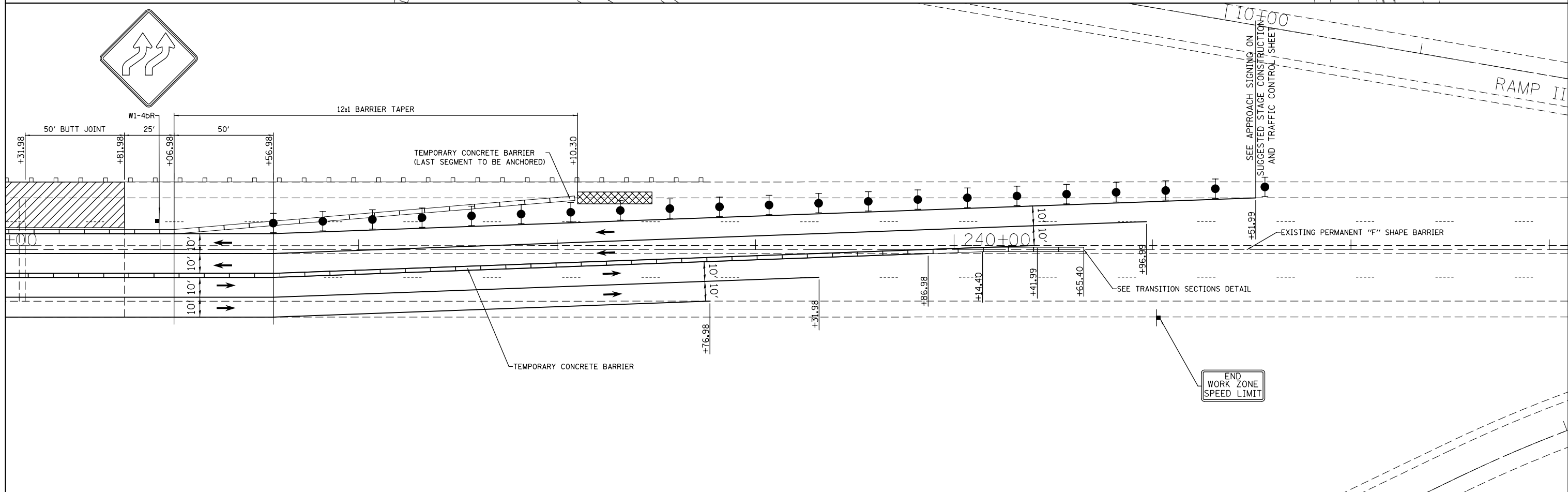
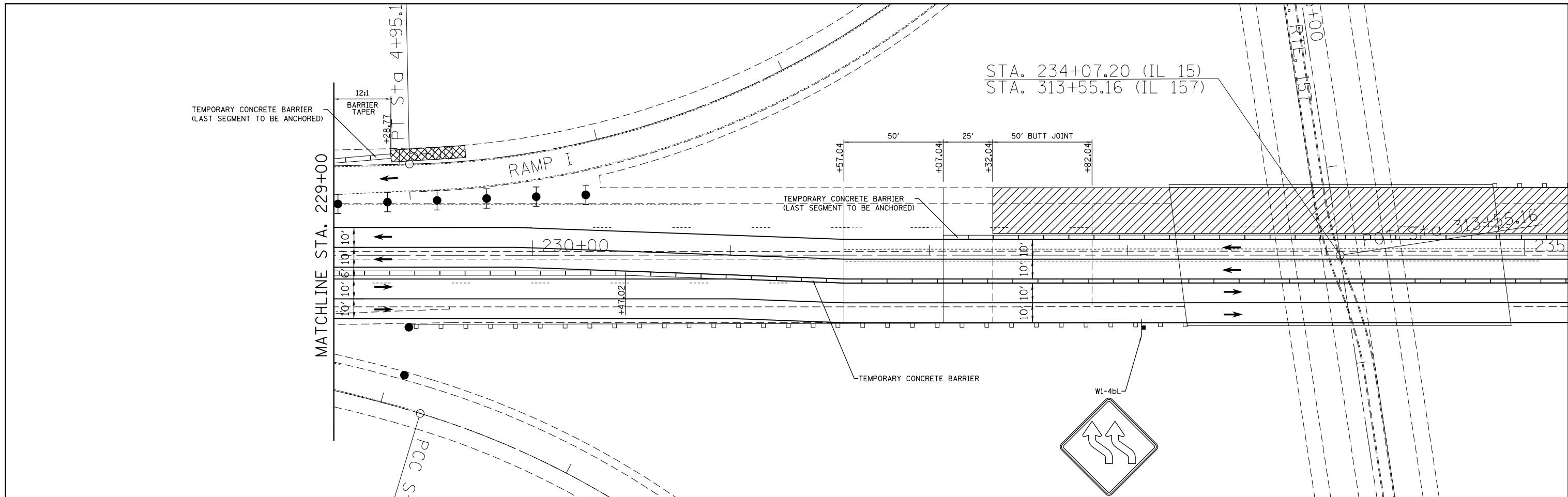
STAGE 2 CONSTRUCTION
AND TRAFFIC CONTROL

SCALE: SHEET 8 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



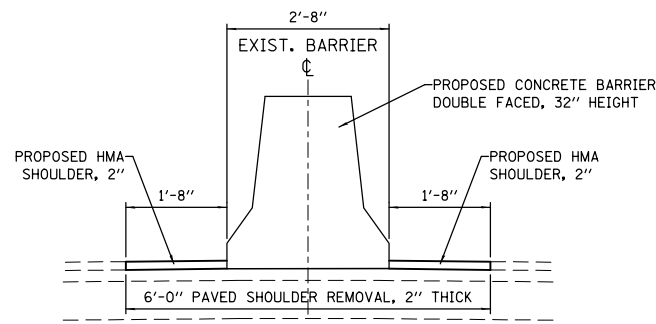
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pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 8\Projects\0876\DRAWING\DATA\CAD\sheets\d876j01-sht-pland		CHECKED -	REVISED -		SCALE:	SHEET 9 OF 11 SHEETS	STA.	103	28-1BR-1, 28-1HBR-1	ST. CLAIR	62	26
		DATE -	REVISED -				TO STA.	CONTRACT NO. 76J01				
								ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 3 CONSTRUCTION AND TRAFFIC CONTROL		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 1/19/2017	DATE -	REVISED -	REVISED -				CONTRACT NO. 76J01			ILLINOIS FED. AID PROJECT	
							SCALE:	SHEET 10 OF 11 SHEETS	STA.	TO STA.	

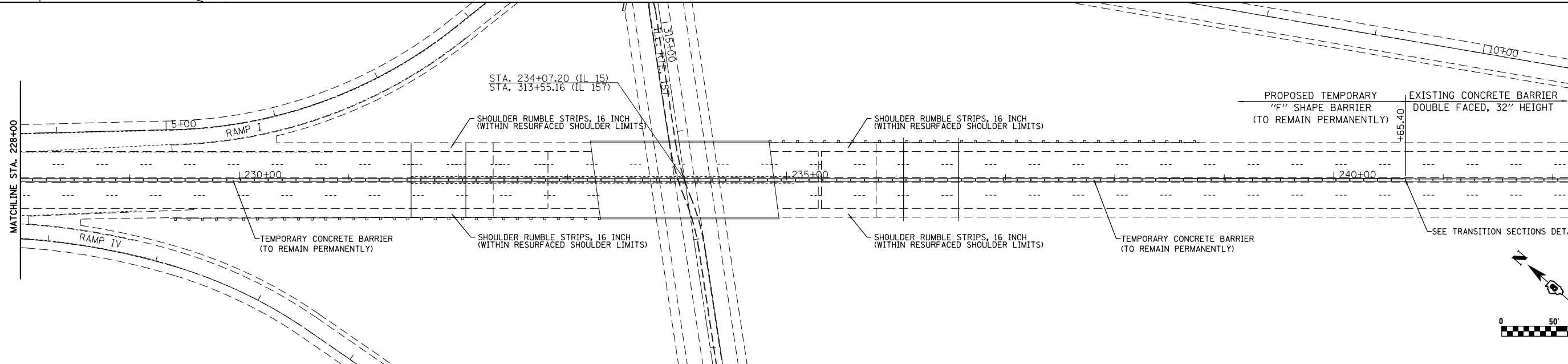
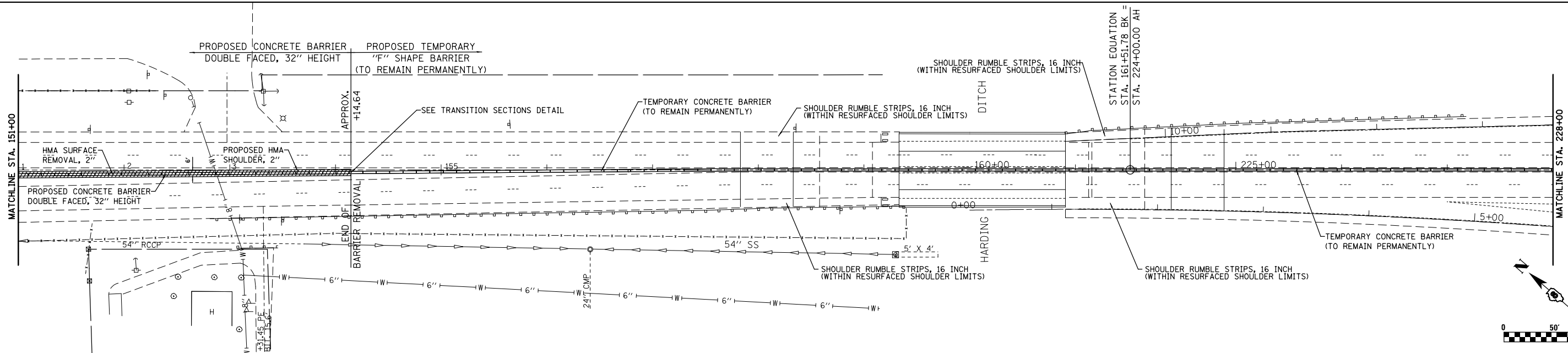
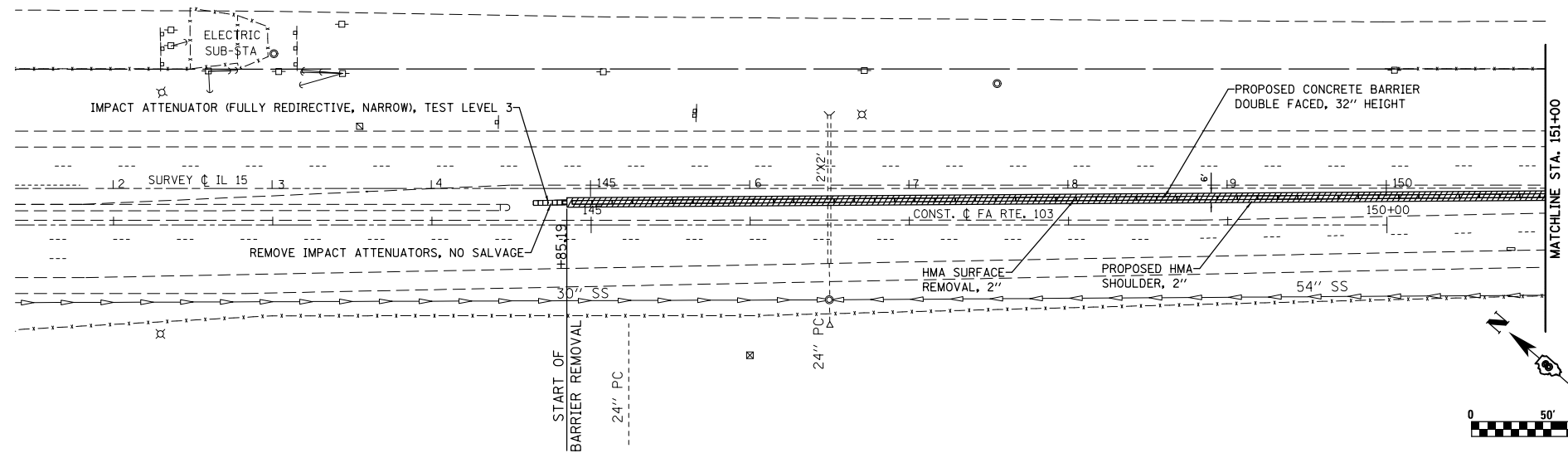
NOTES

1. POST-STAGE CONSTRUCTION TO BE COMPLETED ACCORDING TO APPLICABLE PORTIONS OF STANDARDS 701411 AND 701421.
2. POST-STAGE CONSTRUCTION TO BE COMPLETED DURING NON-PEAK HOURS AS DEFINED IN THE SPECIAL PROVISIONS.
3. TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY) SHALL BE IN NEW OR "LIKE NEW" CONDITION.



PROPOSED CONCRETE BARRIER, DOUBLE FACED, 32" HEIGHT WITH OVERLAY CONFINEMENT DETAIL

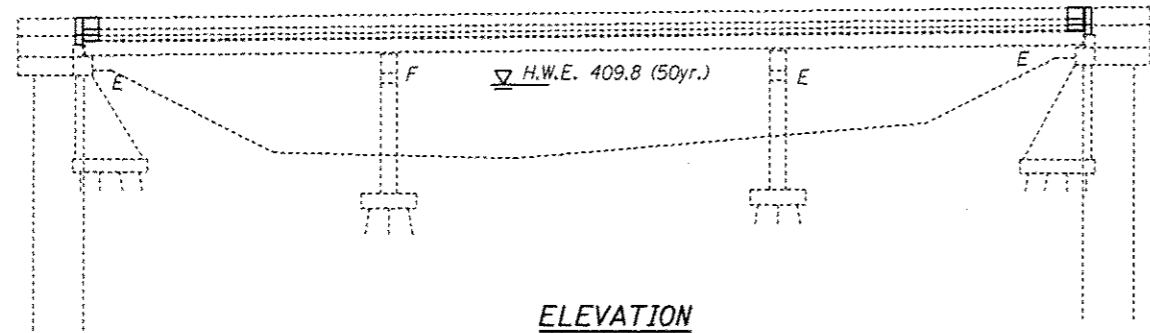
NOT TO SCALE



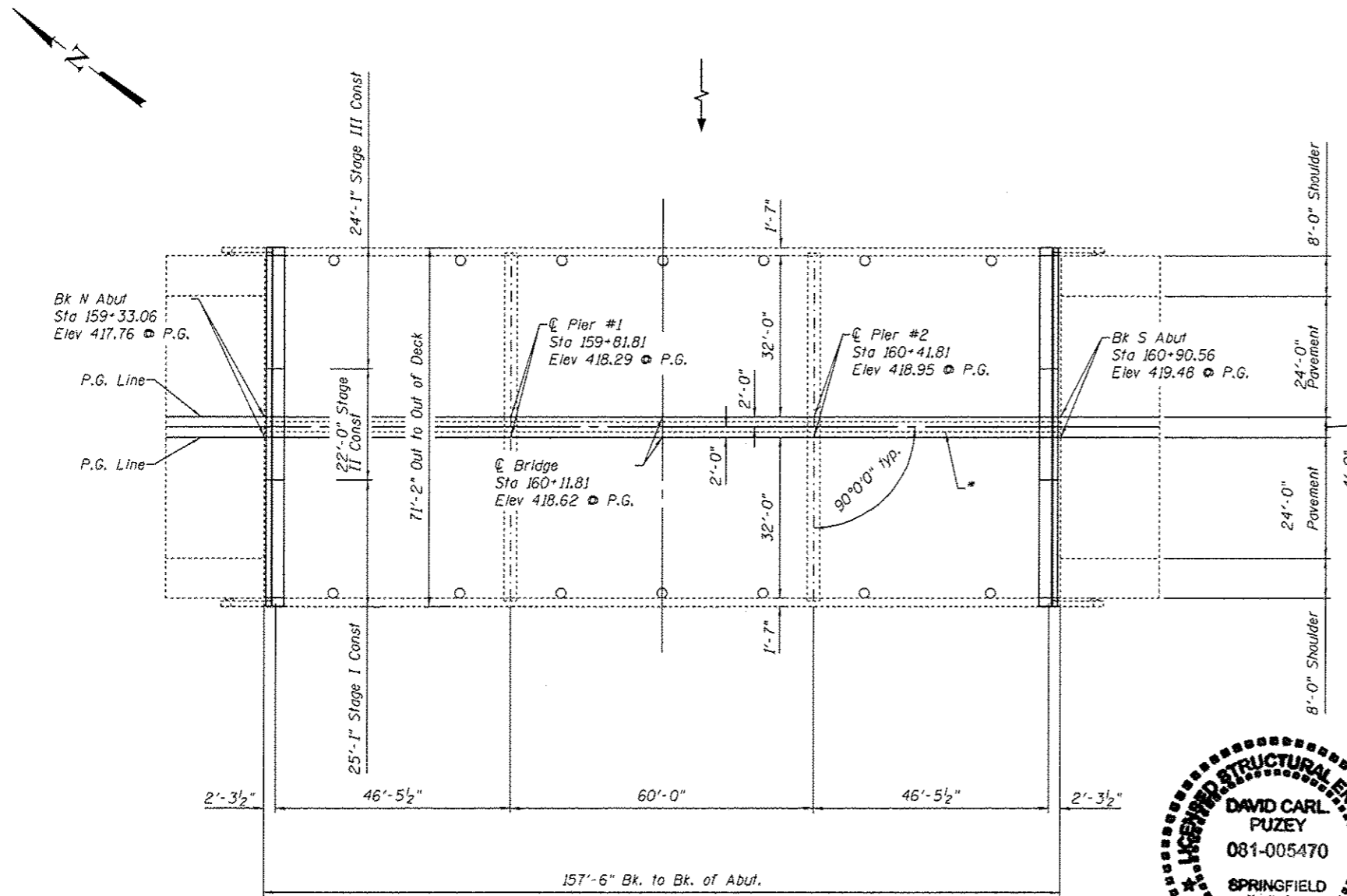
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PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			CONTRACT NO. 76J01				
PLOT DATE = 1/19/2017						ILLINOIS FED. AID PROJECT				

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

Traffic Control Stage Construction



ELEVATION



PLAN

* Remove existing Temporary Concrete Barrier & place new Temporary Concrete Barrier (To Remain Permanently)

INDEX OF SHEETS

1. General Plan & Elevation
2. Deck Cross Section & Joint Details
3. Stage Traffic Lanes (Stage I & II)
4. Stage Traffic Lanes (Stage III)
5. Joint Removal & Replacement
6. Strip Seal Details
7. Drain Details & Waterproofing Staging
8. Temporary Concrete Barrier
9. Bar Splicers
10. Structural Steel
11. Structural Steel Details
12. F.I.O. - Existing Structural Steel
13. F.I.O. - Existing Bearings

GENERAL NOTES

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 point 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.

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.

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

Existing reinforcement bars extending into 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.

Bridge deck concrete sealer shall be placed on top/inside faces of parapets (full length) and end posts and on top of new concrete at joints.

Remove existing concrete barrier at centerline to place HMA, replace deck ends & for proposed traffic staging. The new permanent barrier shall not be pinned to the bridge deck. See roadway plans.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All structural steel, bolts, nuts, and washers shall be galvanized according to AASHTO M111 or M232 as applicable. Cost included with Furnishing and Erecting Structural Steel.

All structural steel shall conform to AASHTO Classification M 270 Grade 50, unless otherwise noted.

Fasteners shall be high strength bolts. Bolts 7/8" φ, open holes 15/16" φ, unless otherwise noted.

The concrete on both sides of the joint shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with "Concrete Superstructure".

SCOPE OF WORK

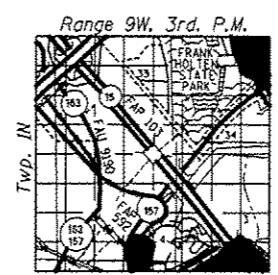
- Replace deck end
- Install Preformed Joint Strip Seals
- HMA overlay with WMS on deck & HMA on approaches
- Deck Slab Repair
- Replace diaphragms & clip angles at abutments with new galvanized diaphragms attached to new galvanized angle bearing stiffeners bolted to the webs.

○ Existing Drains to Remain

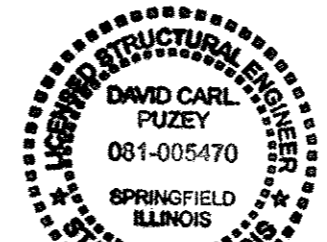
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Polymerized HMA Surface Course, Mix "E" N90	Ton	96
Concrete Removal	Cu. Yd.	21.3
Concrete Superstructure	Cu. Yd.	23.9
Furnishing and Erecting Structural Steel	Pound	7660
Reinforcement Bars, Epoxy Coated	Pound	2130
Bar Splicers	Each	48
Preformed Joint Strip Seal	Foot	140
Waterproofing Membrane System	Sq. Yd.	1136
Bridge Deck Concrete Sealer	Sq. Ft.	1608
Structural Steel Removal	Pound	4960
* Deck Slab Repair (Partial)	Sq. Yd.	53
* Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	13

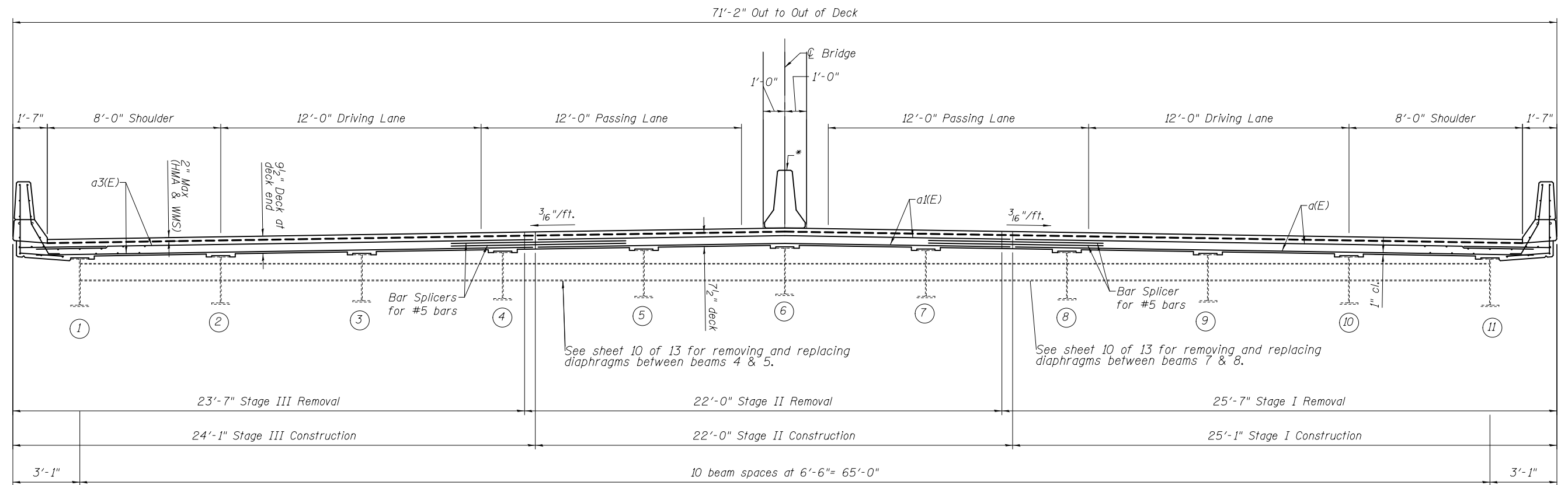
* Quantities are estimated. The Engineer shall determine the actual locations, and record them in the As-Built plans.



LOCATION SKETCH



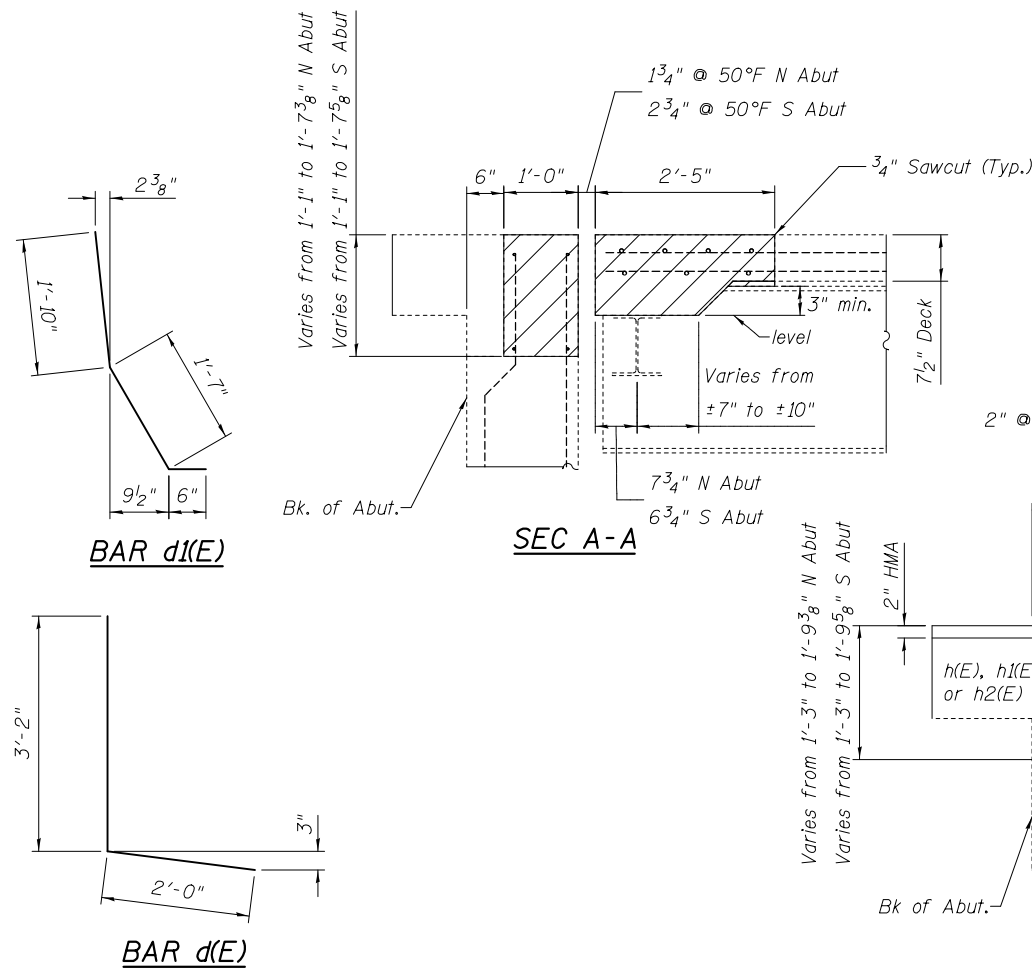
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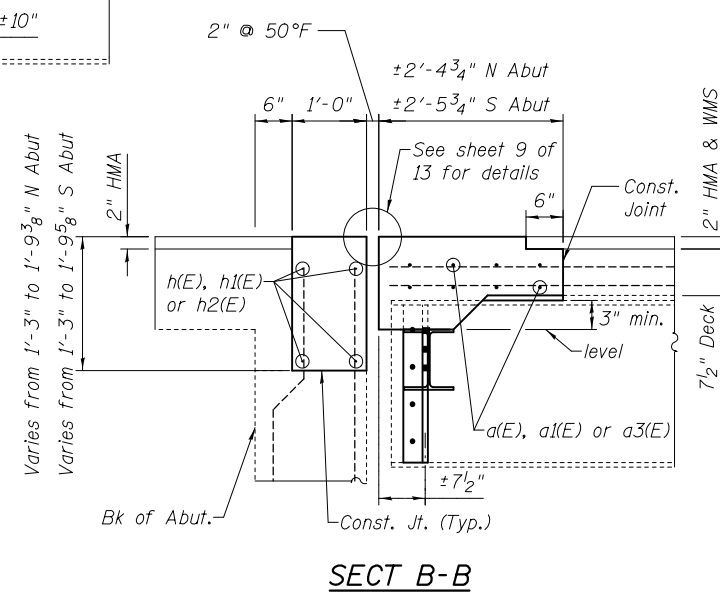
DECK CROSS SECTION

(Looking South @ Joint Locations)

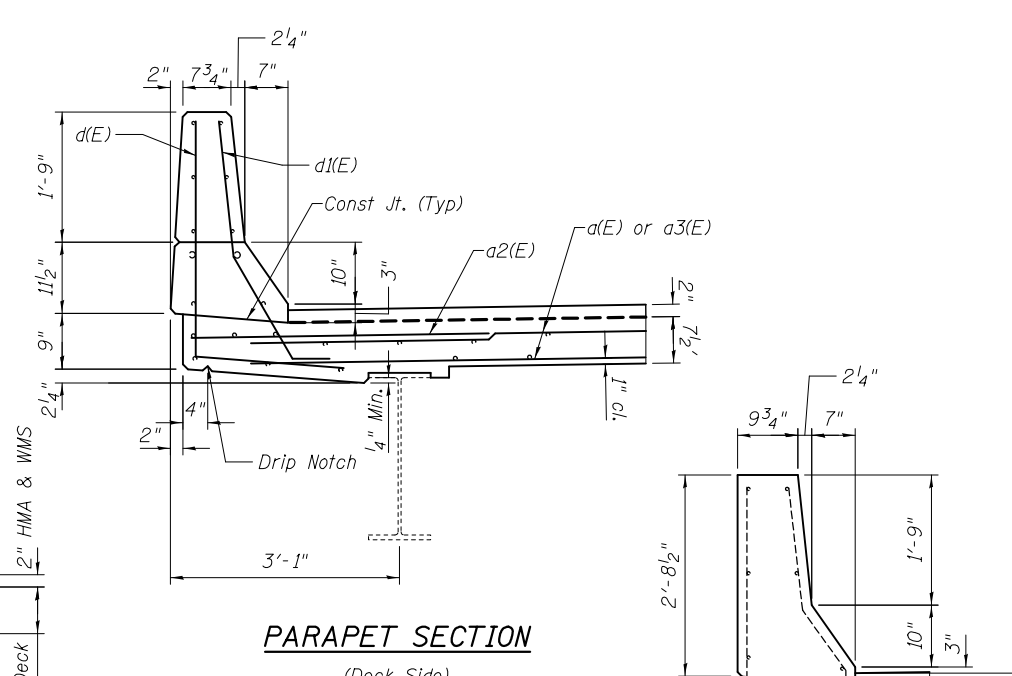
* Remove existing Temporary Concrete Barrier & place new Temporary Concrete Barrier (To Remain Permanently)



SEC A-A

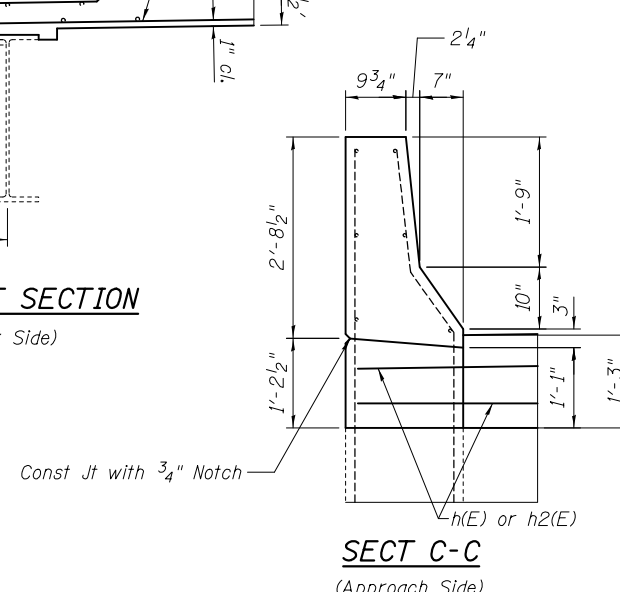


SEC B-B



PARAPET SECTION

(Deck Side)



SECT C-C

(Approach Side)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#5	23'-11"	—
a1(E)	16	#5	21'-9"	—
a2(E)	8	#6	4'-0"	—
a3(E)	16	#5	22'-11"	—
d(E)	12	#4	5'-2"	J
d1(E)	12	#5	3'-11"	J
h(E)	8	#6	24'-9"	—
h1(E)	8	#6	21'-9"	—
h2(E)	8	#6	23'-9"	—
Reinforcement Bars, Epoxy Coated		Pound	2130	
Waterproofing Membrane System		Sq. Yd.	1152	
HMA Surface Course, Mix "E" N90		Ton	96	
Bridge Deck Concrete Sealer		Sq. Ft.	1608	
Concrete Superstructure		Cu. Yds.	23.9	
Concrete Removal		Cu. Yds.	21.3	
Deck Slab Repair (Partial)		Sq. Yd.	53	
Deck Slab Repair (Full Depth, Type II)		Sq. Yd.	13	

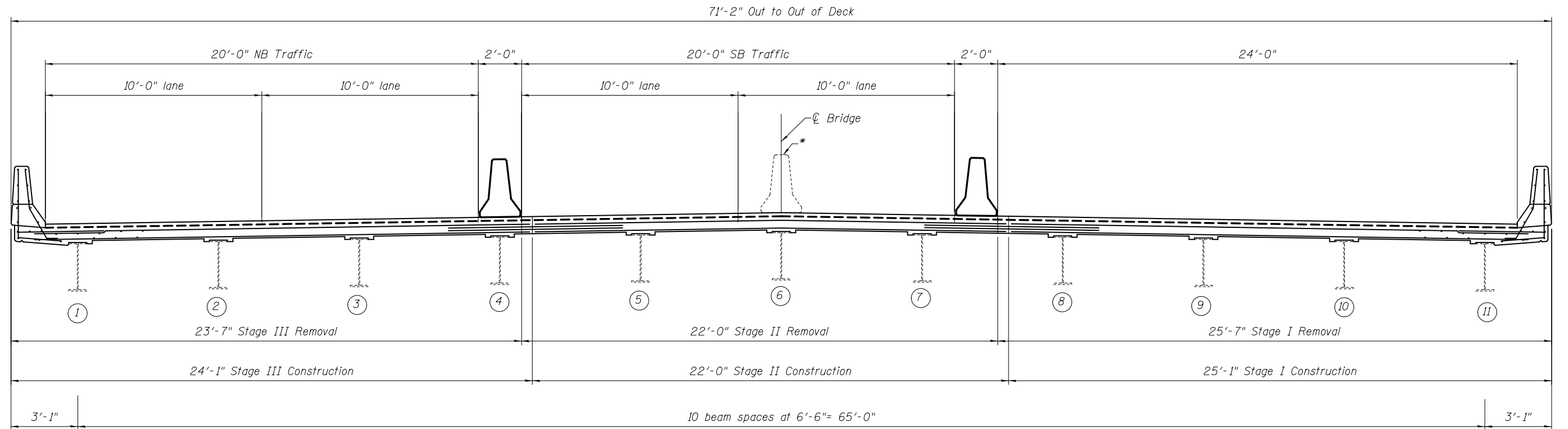
DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK CROSS SECTION & JOINT DETAILS
SN 082-0039**

SHEET NO. 2 OF 13 SHEETS

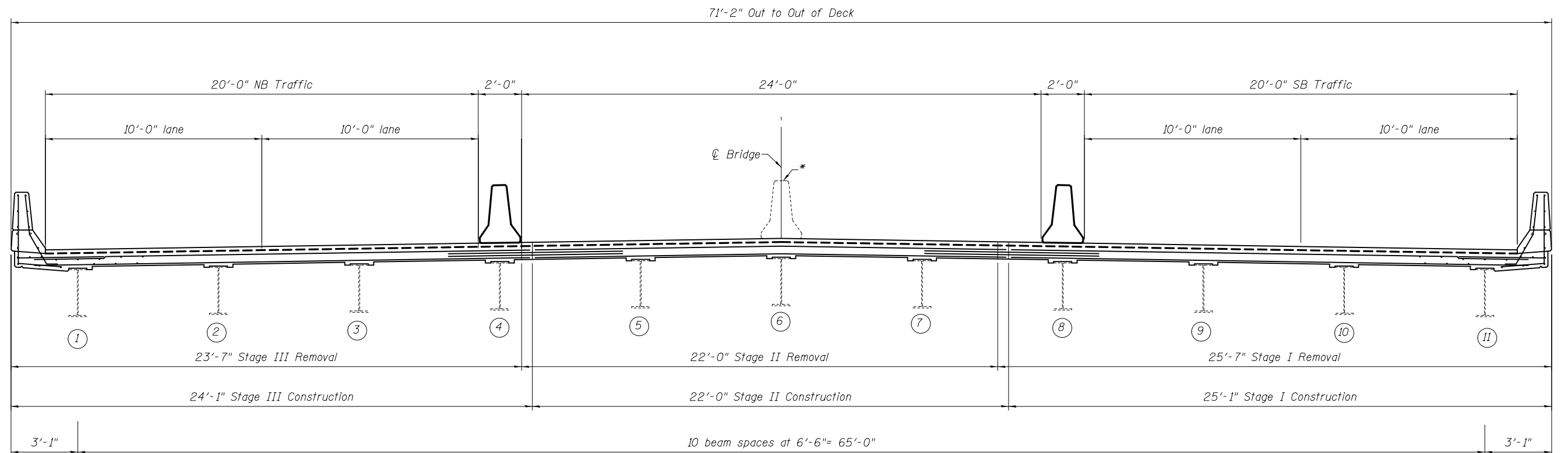
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	30
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



STAGE I TRAFFIC

(Looking South)

* Remove existing Temporary Concrete Barrier & place new Temporary Concrete Barrier (To Remain Permanently)



STAGE II TRAFFIC

(Looking South)

* Remove existing Temporary Concrete Barrier & place new Temporary Concrete Barrier (To Remain Permanently)

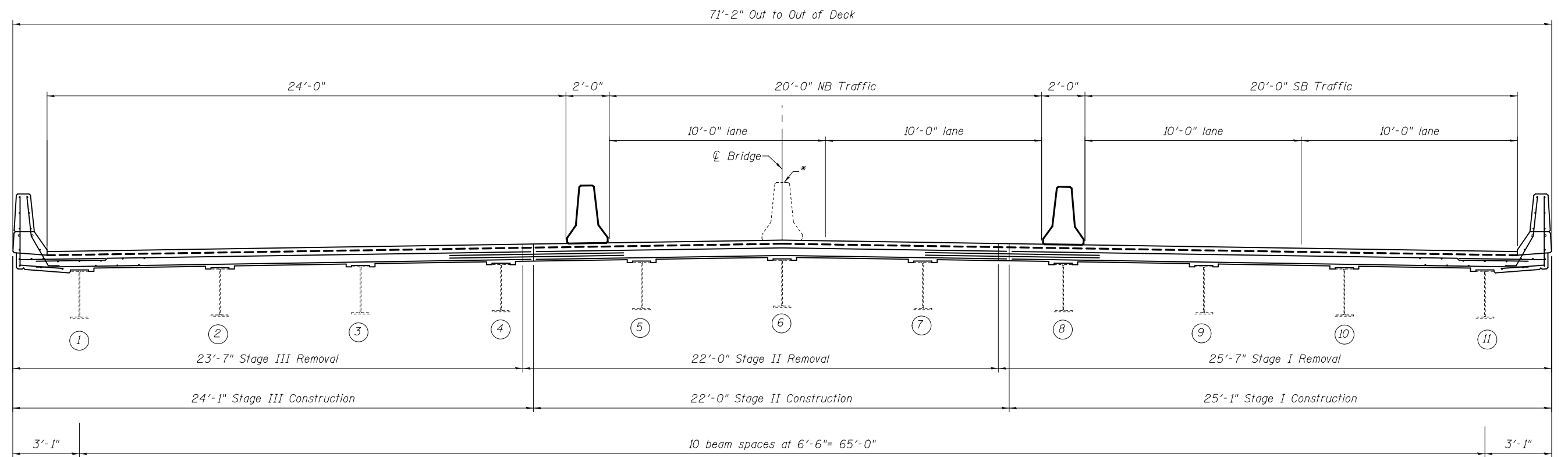
DESIGNED - AYV	EXAMINED _____	DATE - APRIL 28, 2017	
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - AYV	PASSED _____	REVISED _____	
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE TRAFFIC LANES (STAGE I & II)
SN 082-0039**

SHEET NO. 3 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	31
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



STAGE III TRAFFIC

(Looking South)

* Remove existing Temporary Concrete Barrier & place new Temporary Concrete Barrier (To Remain Permanently)

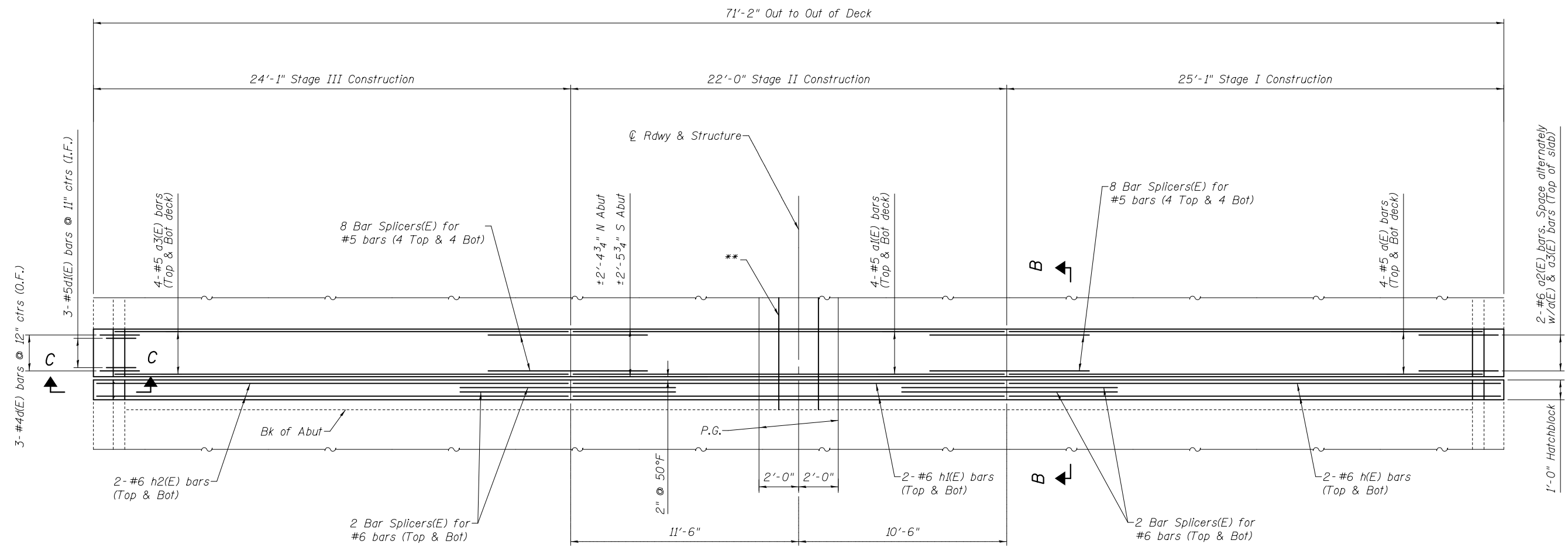
DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017	
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - AYV	PASSED	REVISOR	
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE TRAFFIC LANES (Stage III)
SN 082-0039**

SHEET NO. 4 OF 13 SHEETS

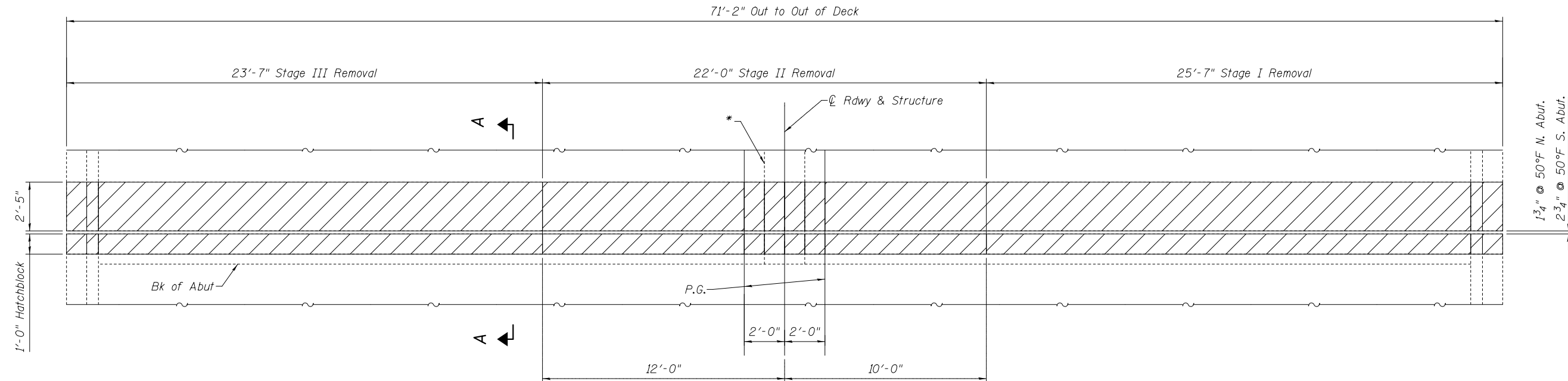
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103	28-1BR-1	ST. CLAIR	62	32
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



CONCRETE REPLACEMENT

N. Abut shown, S. Abut opposite

** Temporary Concrete Barrier (To Remain Permanently)



CONCRETE REMOVAL

N. Abut shown, S. Abut opposite

* Remove existing Temporary Concrete Barrier

Note:

See sheet 2 of 13 for Bill of Material & Sections A-A, B-B & C-C

DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL & REPLACEMENT
SN 082-0039**

SHEET NO. 5 OF 13 SHEETS

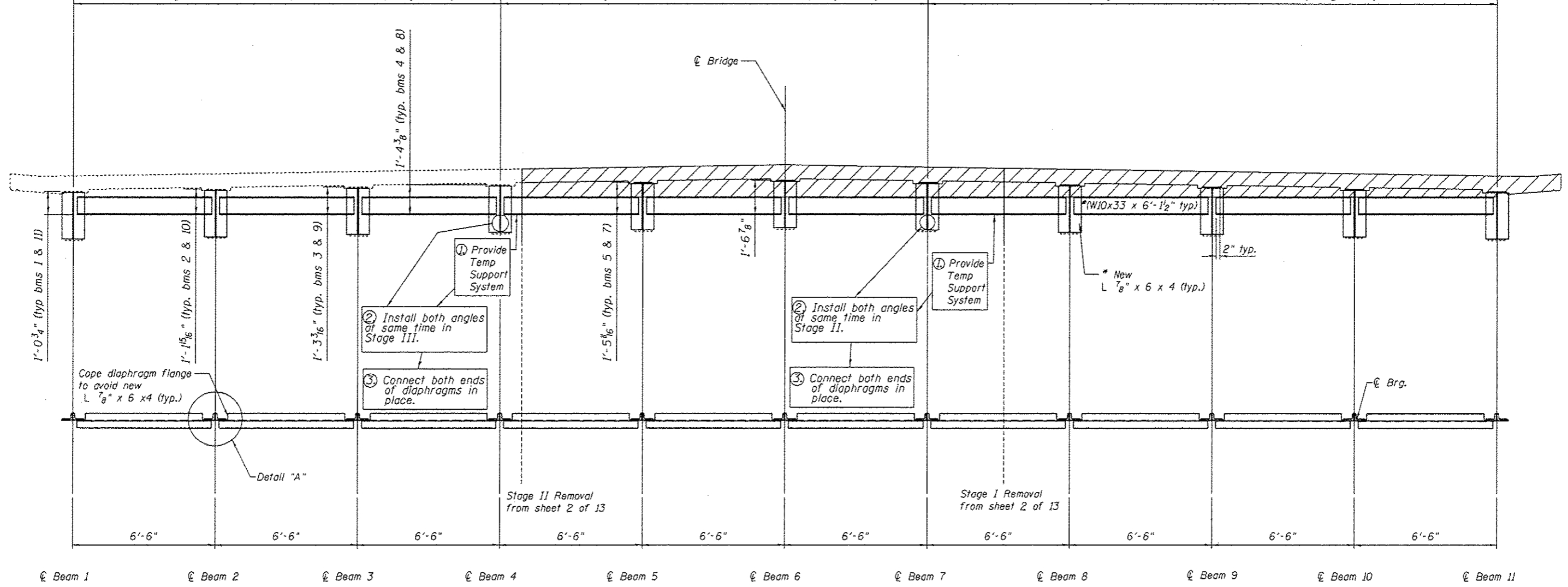
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	33
CONTRACT NO. 76J01				

ILLINOIS FED. AID PROJECT

19'-6" Stage III Removal & Replacement of Diaphragms Only

19'-6" Stage II Removal & Replacement of Diaphragms Only

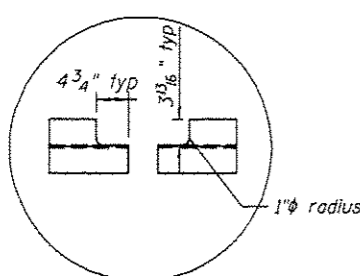
26'-0" Stage I Removal & Replacement of Diaphragms Only



Note: Diaphragm connection holes shall be $\frac{15}{16}$ " ϕ for $\frac{3}{4}$ " ϕ bolts. Two hardened washers shall be required at diaphragm connections.

DIAPHRAGMS (W10X33)

S. Abutment shown, N Abutment similar
 Replace all end diaphragms @ each end
 * Galvanize new Ls & diaphragms



DETAIL "A"
 (Only showing diaphragms for clarity)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Removal	Pound	4960
F & E Structural Steel	Pound	7660

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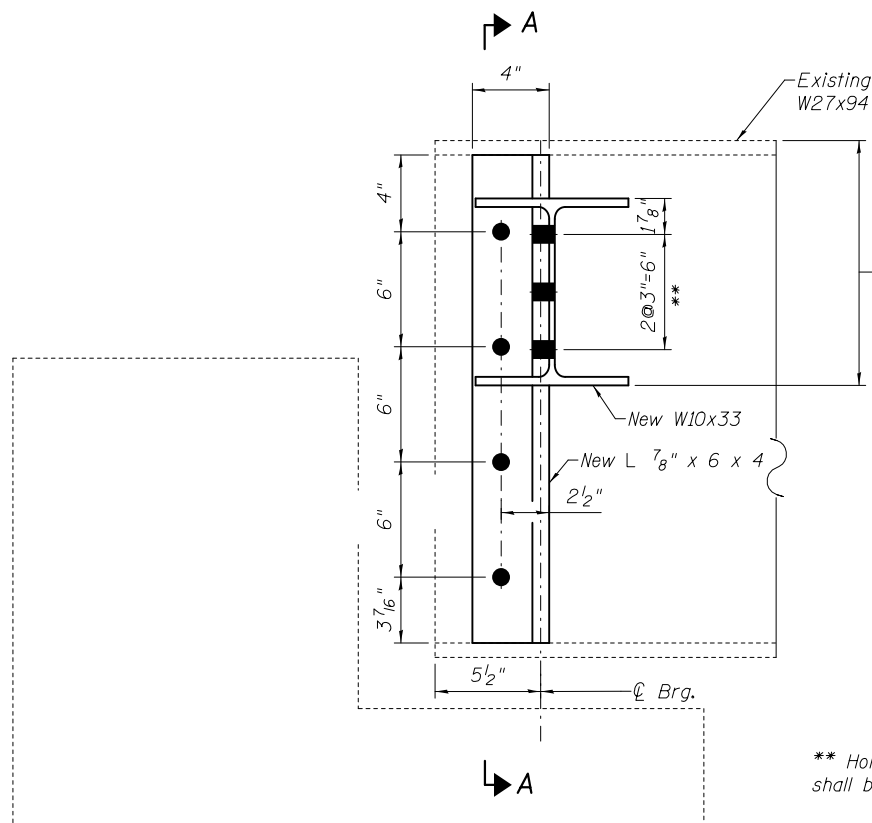
DESIGNED - AYW	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	PASSED	REVISED
DRAWN - AYW		REVISED
CHECKED - ATH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
SN 082-0039
 SHEET NO. 6 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	34

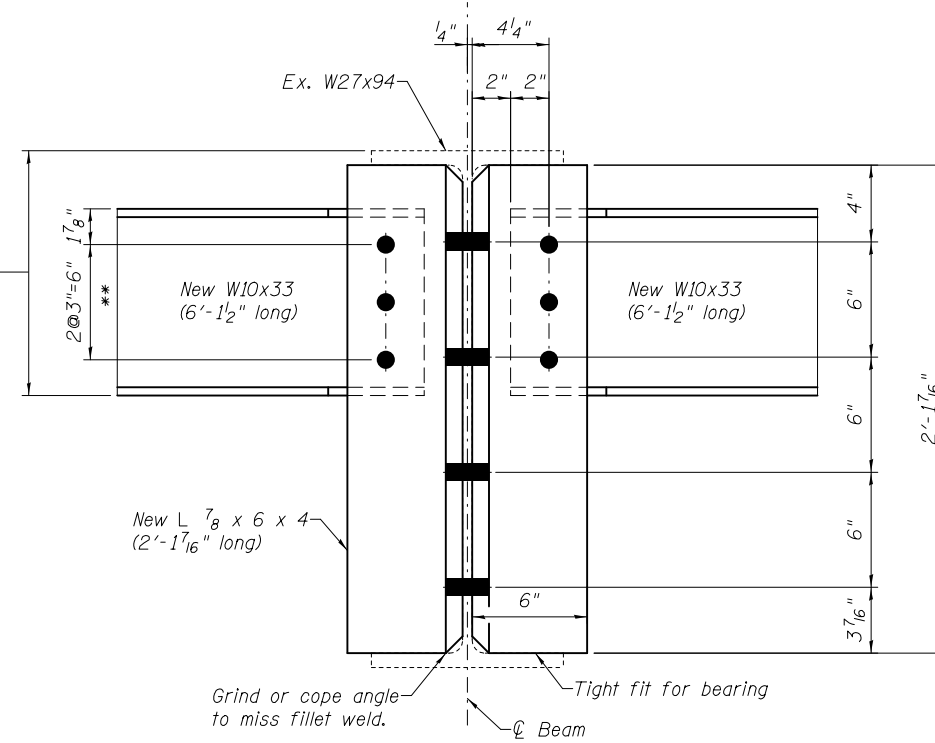
CONTRACT NO. 76J01
 ILLINOIS FED. AID PROJECT



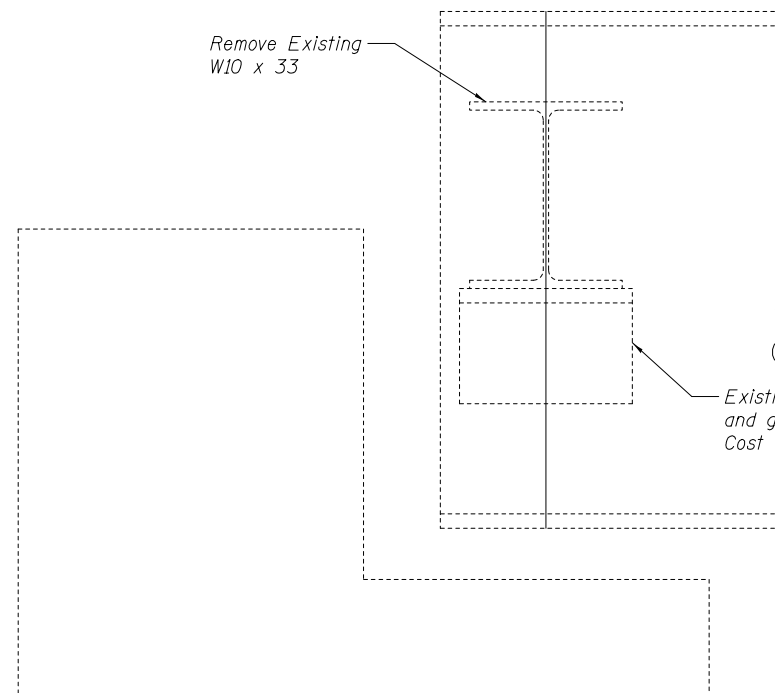
PROPOSED DIAPHRAGMS

- 1'-0 3/4" Beams 1 & 11
- 1'-1 5/16" Beams 2 & 10
- 1'-3 3/16" Beams 3 & 9
- 1'-4 3/8" Beams 4 & 8
- 1'-5 1/16" Beams 5 & 7
- 1'-6 7/8" Beam 6

** Holes in 6" leg of new L 7/8" x 6 x 4 shall be field drilled.



VIEW A-A



EXISTING DIAPHRAGMS

Remove Existing W10 x 33

Existing L6x4x3/4" (9" long) to be removed using the air-arc method and grind smooth all weld material remaining on the web. Cost included with "Structural Steel Removal".

Note: New W10x33 diaphragms, L 7/8" x 6 x 4 and connection bolts are included in "Furnishing and Erecting Structural Steel". Diaphragm connection holes shall be 15#16"φ for 3#4"φ bolts. Two hardened washers shall be required at diaphragm connections.

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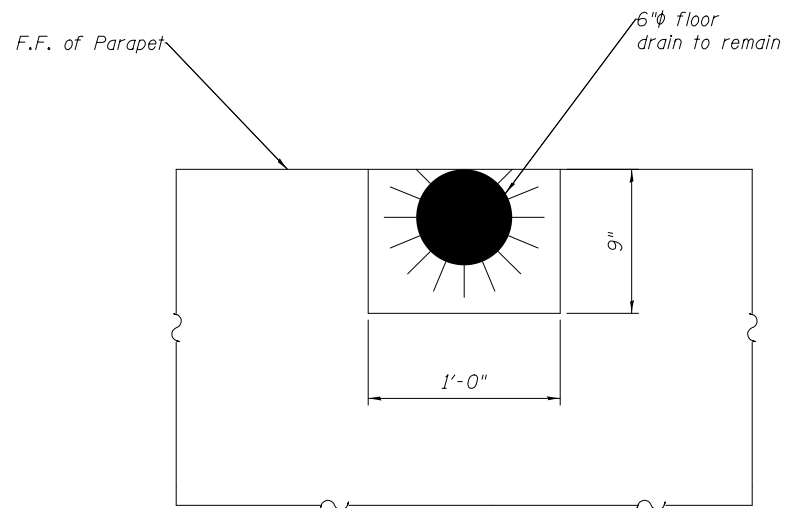
DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS
SN 082-0039**

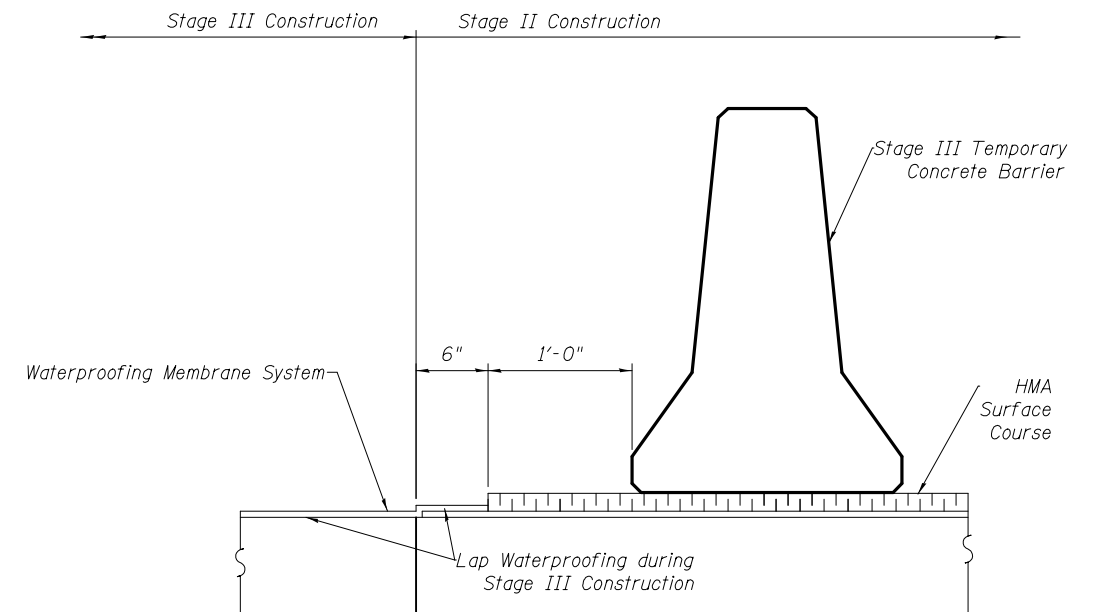
SHEET NO. 7 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	35
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



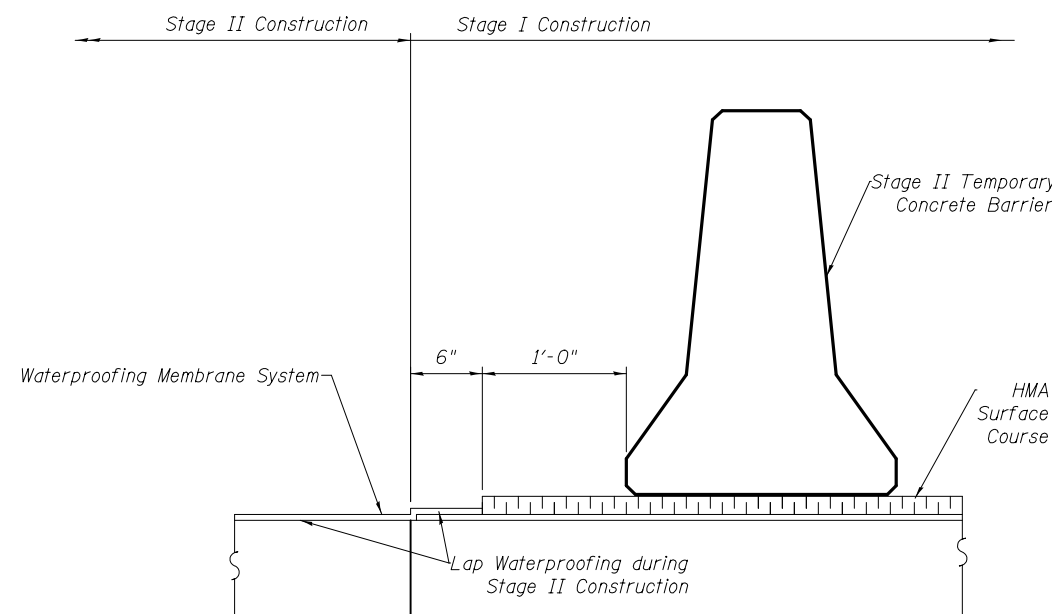
DRAIN DETAIL

Slope to drain with 1" minimum HMA at drains edge.
 (See sheet 1 of 13 for locations to remain)
 (6 Req'd)



WATERPROOFING STAGING

(Across Stages II & III)



WATERPROOFING STAGING

(Across Stages I & II)

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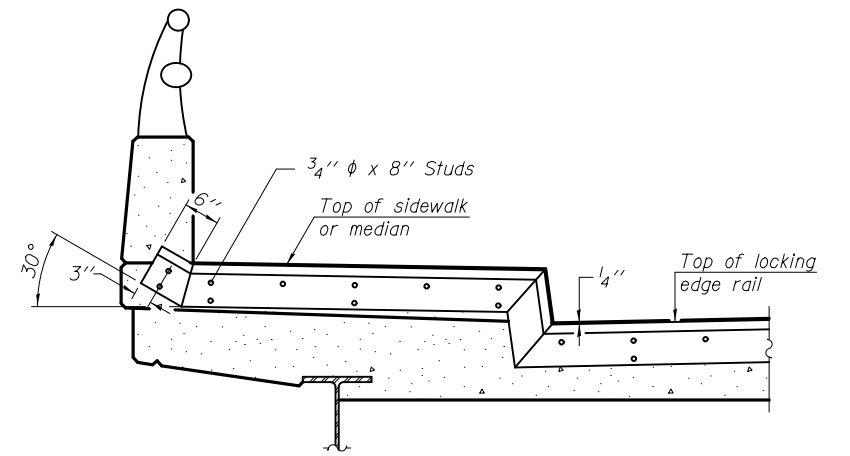
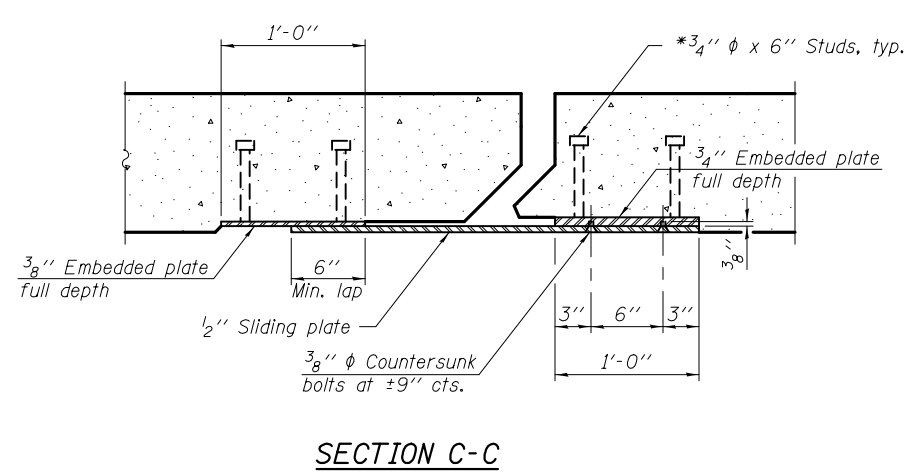
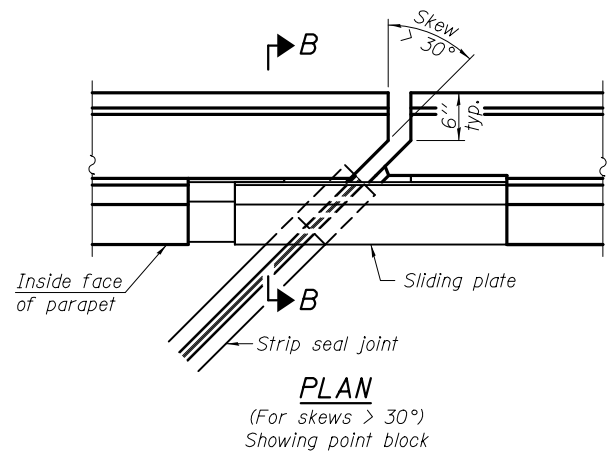
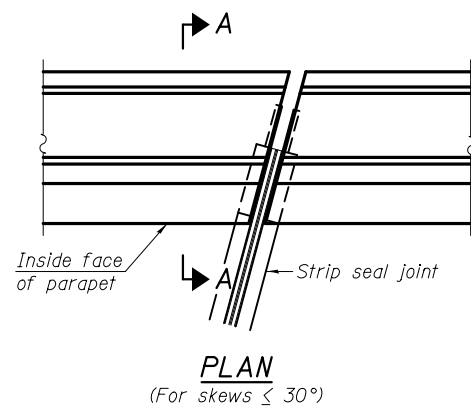
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAIN DETAILS & WATERPROOFING STAGING
SN 082-0039**

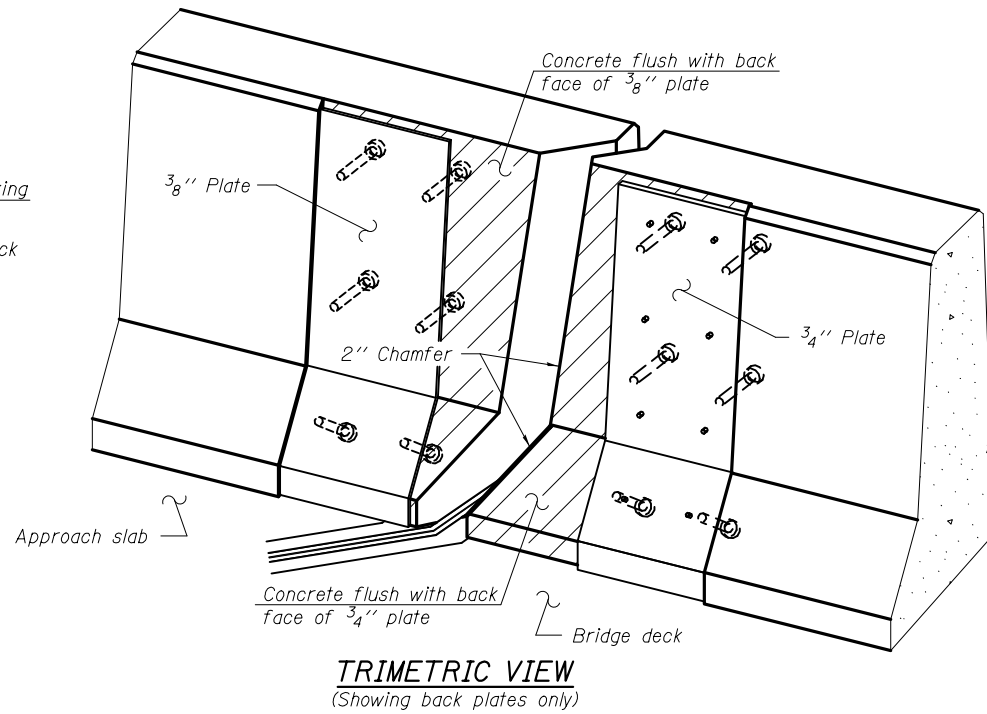
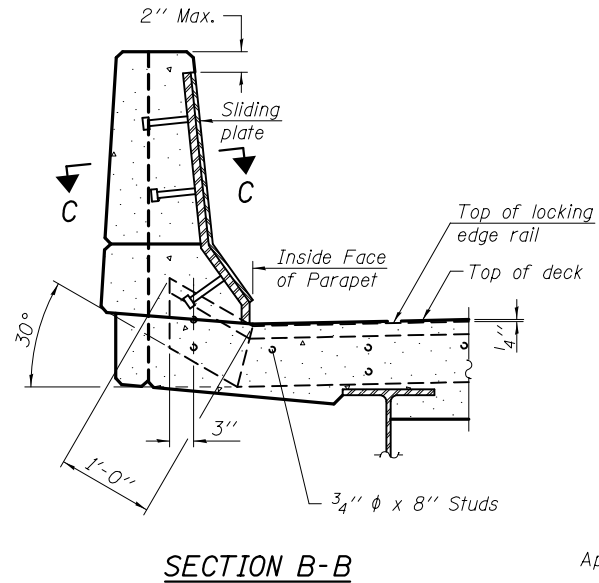
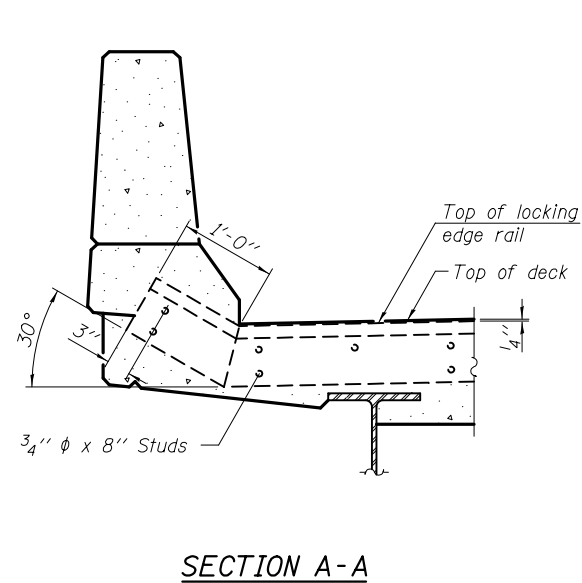
SHEET NO. 8 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	36
CONTRACT NO. 76J01				

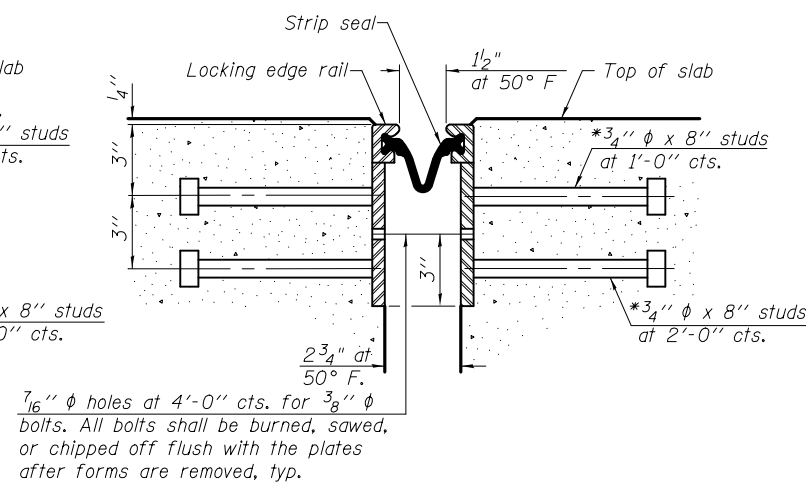
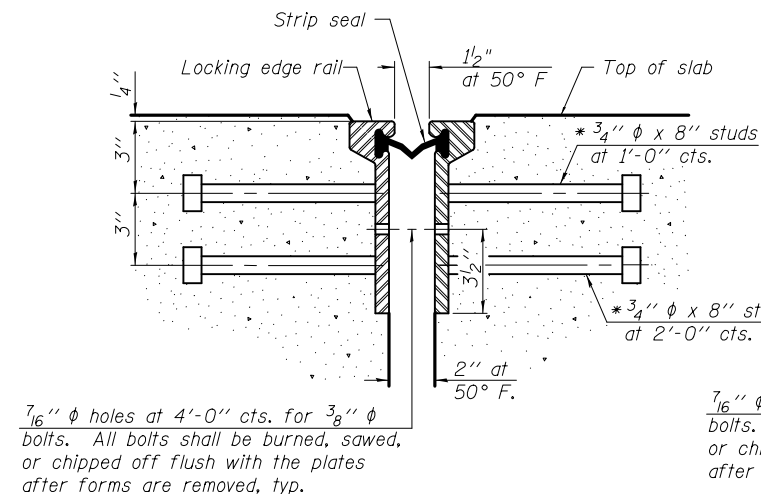
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TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN
 Shorter plates with a single row of studs at 12 inch cts. may be necessary on medians which are shallower than 9 inch. See manufacturer's recommendation.



Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4 inch. 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 inch, sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.
 Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



SECTION THRU ROLLED RAIL JOINT

SECTION THRU WELDED RAIL JOINT

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

ROLLED EXTRUDED RAIL WELDED RAIL

LOCKING EDGE RAIL SPLICE

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

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

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	140

EJ-SSJ

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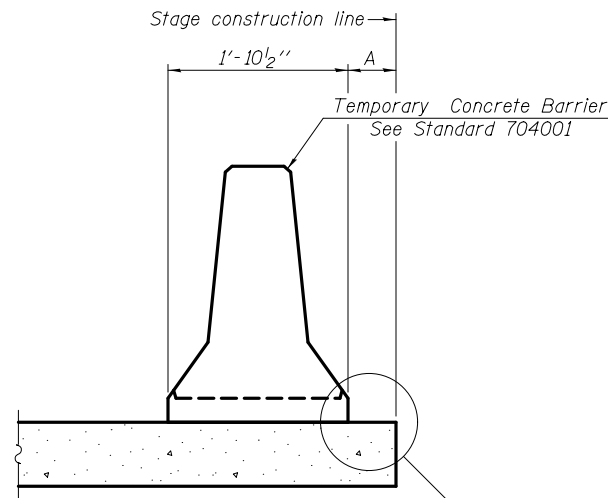
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CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 SN 082-0039

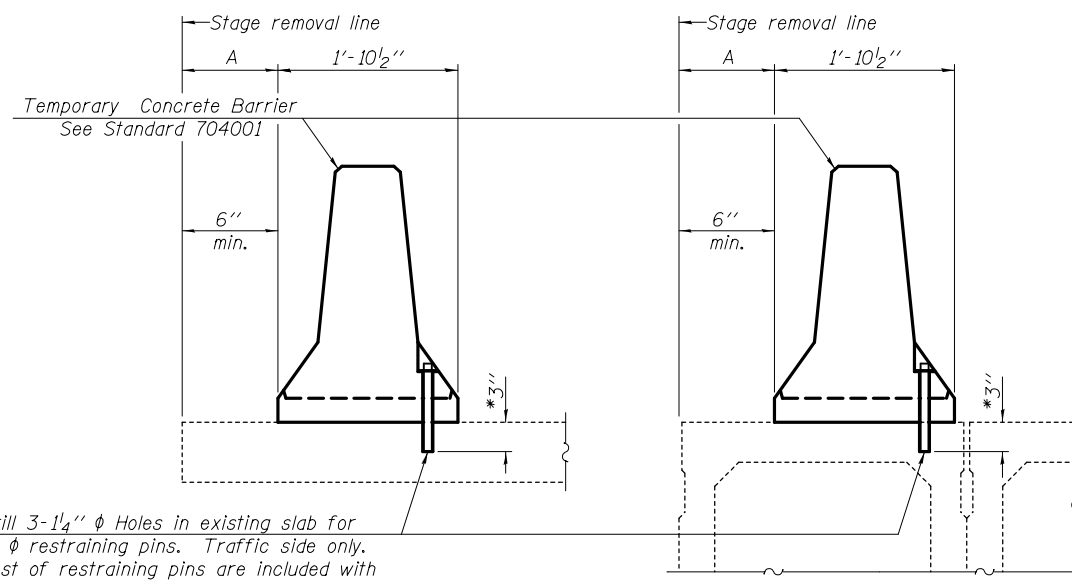
SHEET NO. 9 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	37
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1". See Detail I, II or III

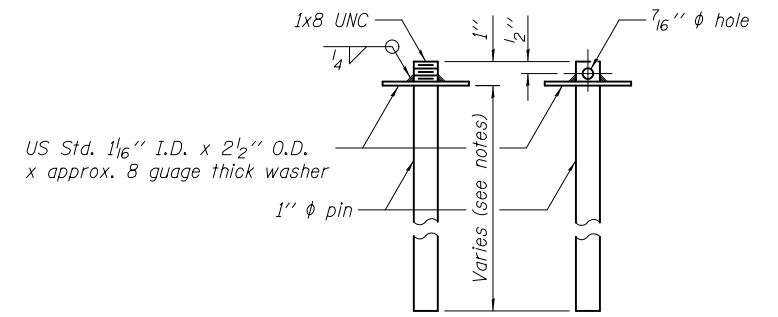
NEW SLAB OR NEW DECK BEAM



Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

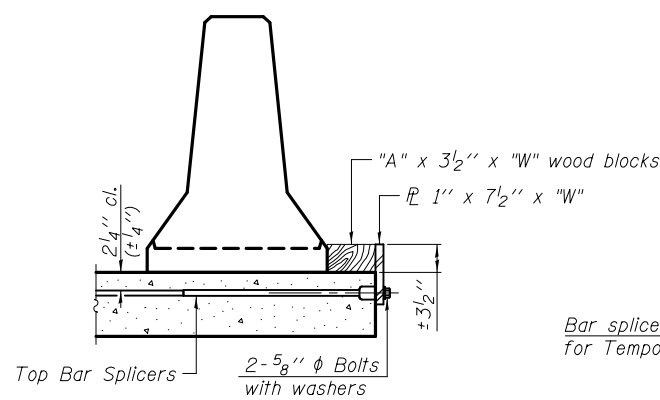
EXISTING DECK BEAM



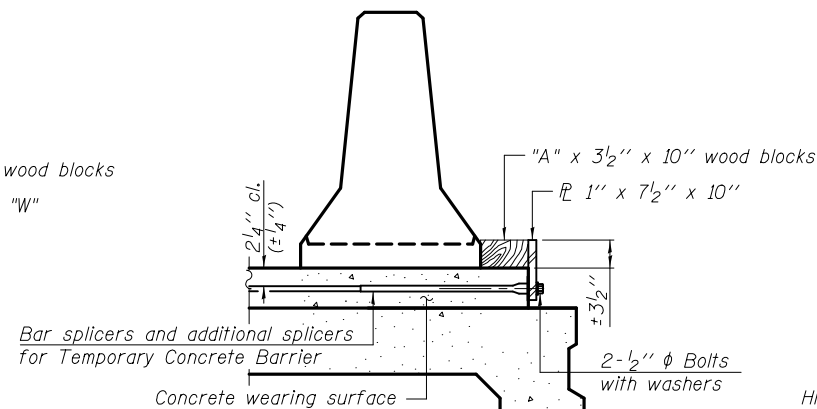
RESTRAINING PIN

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

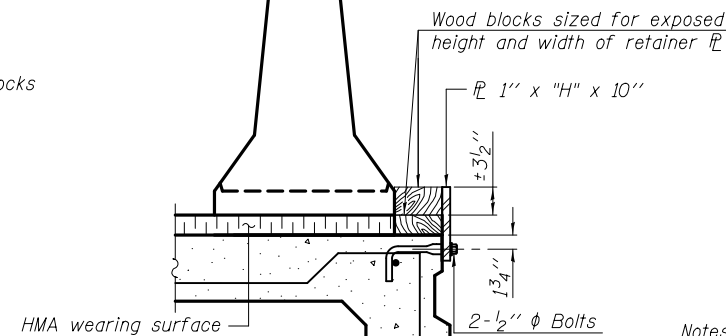
SECTIONS THRU SLAB OR DECK BEAM



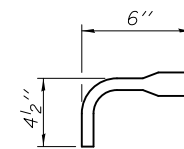
DETAIL I



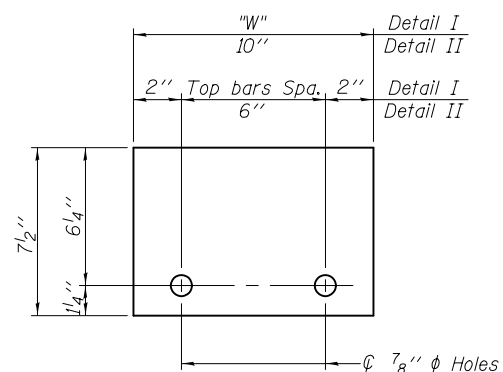
DETAIL II



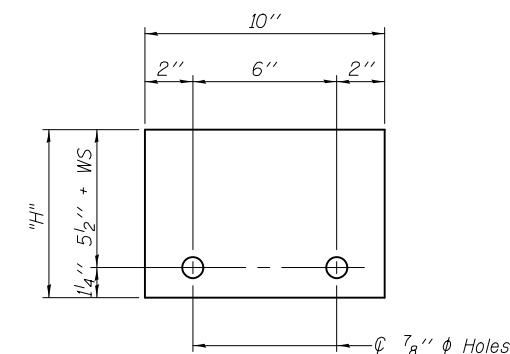
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 7 1/2" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate ϕ of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

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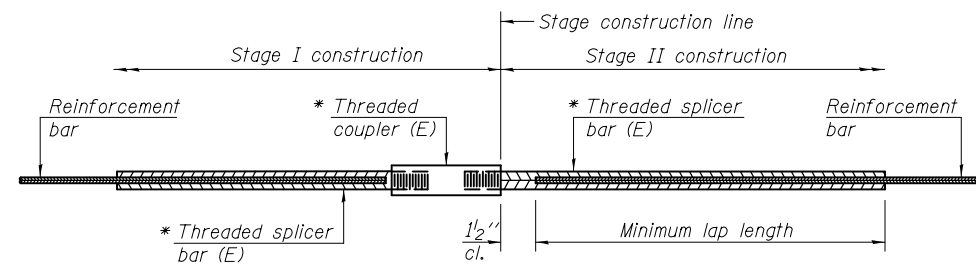
DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
SN 082-0039**

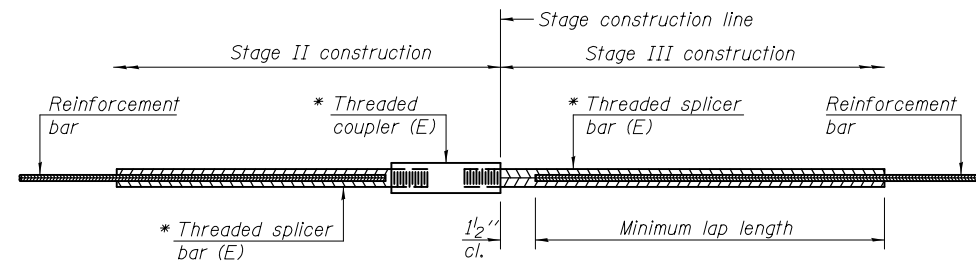
SHEET NO. 10 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	38
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

(Connecting Stage I & II)



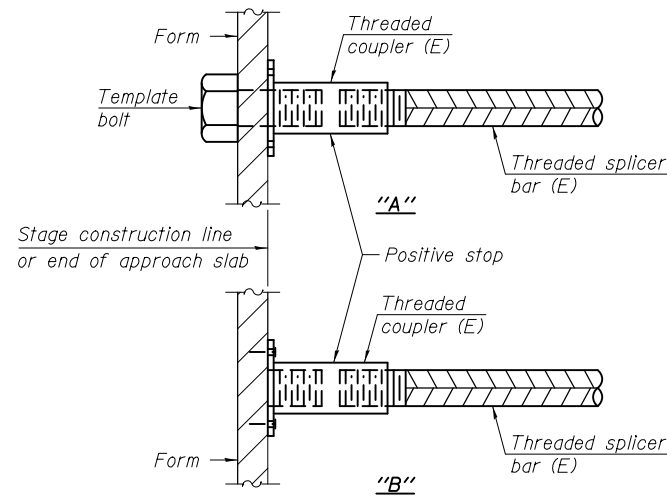
STANDARD BAR SPLICER ASSEMBLY

(Connecting Stage II & III)

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	Minimum lap length
N Abut (Hatchblock)	#6	8	4'-0"
N Abut (Deck)	#5	16	3'-6"
S Abut (Deck)	#5	16	3'-6"
S Abut (Hatchblock)	#6	8	4'-0"

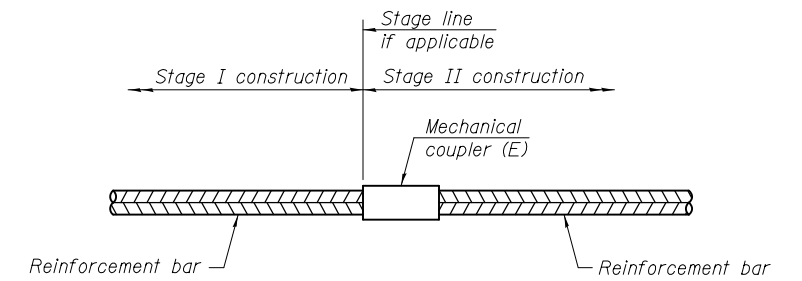


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

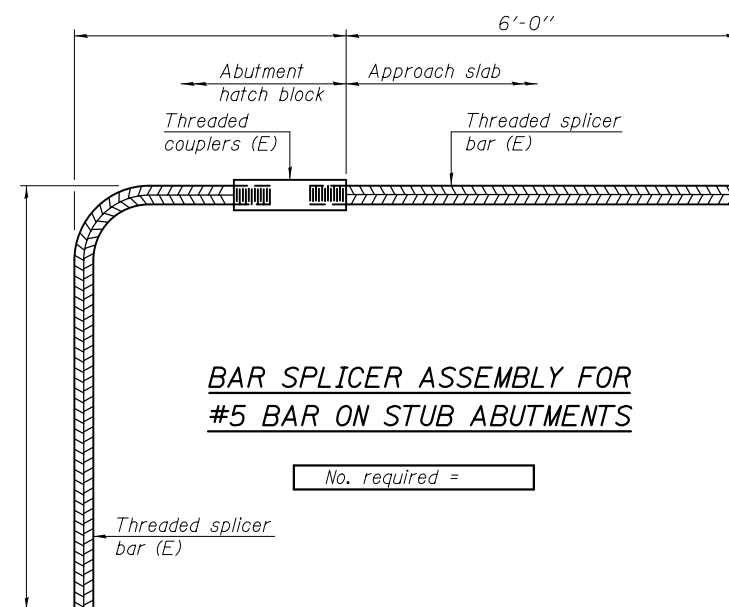
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

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

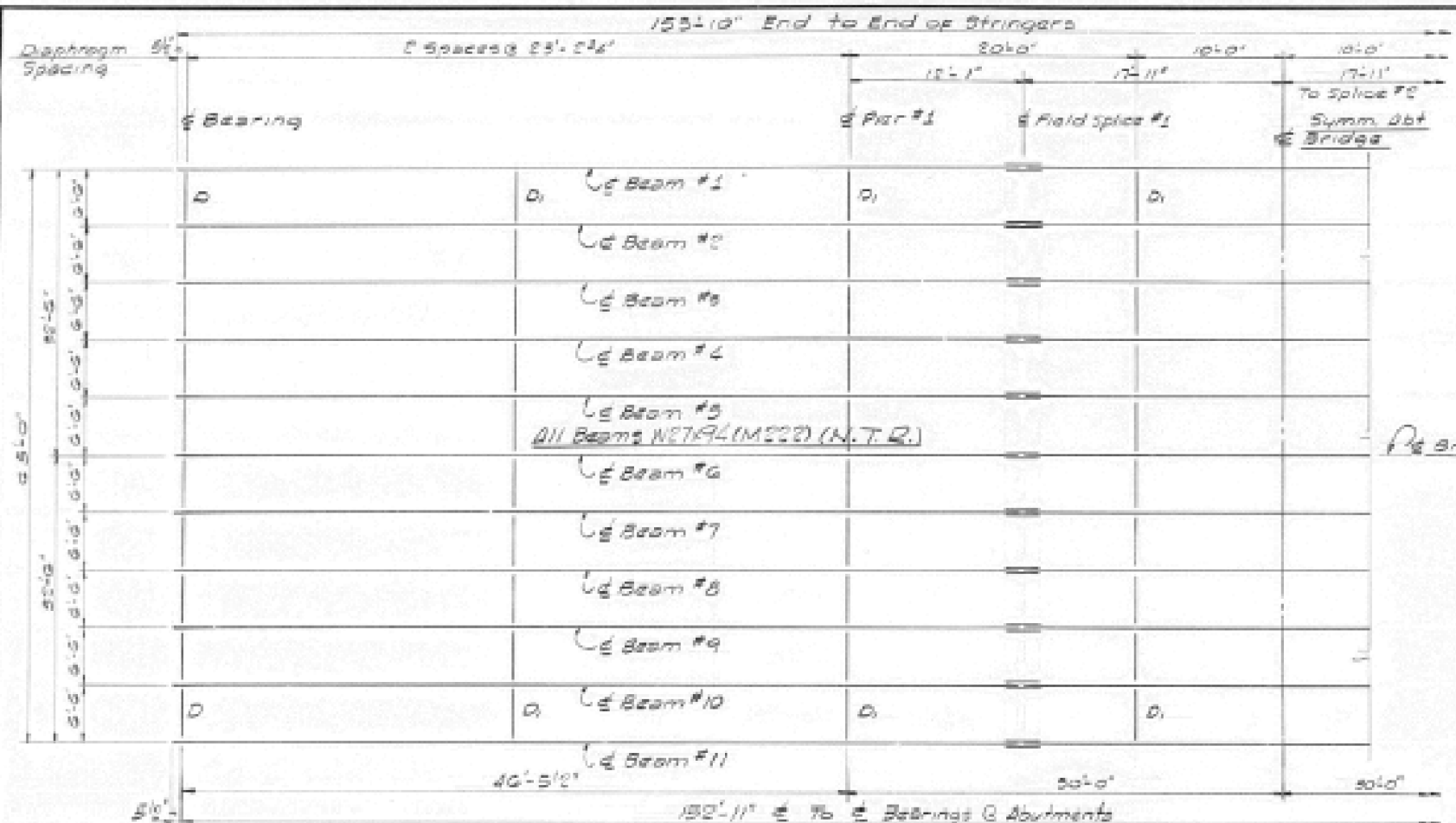
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CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 082-0039

SHEET NO. 11 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST. CLAIR	62	39
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



NOTE
 "N.T.R." Denotes Notch Toughness Requirements.

FRAMING PLAN

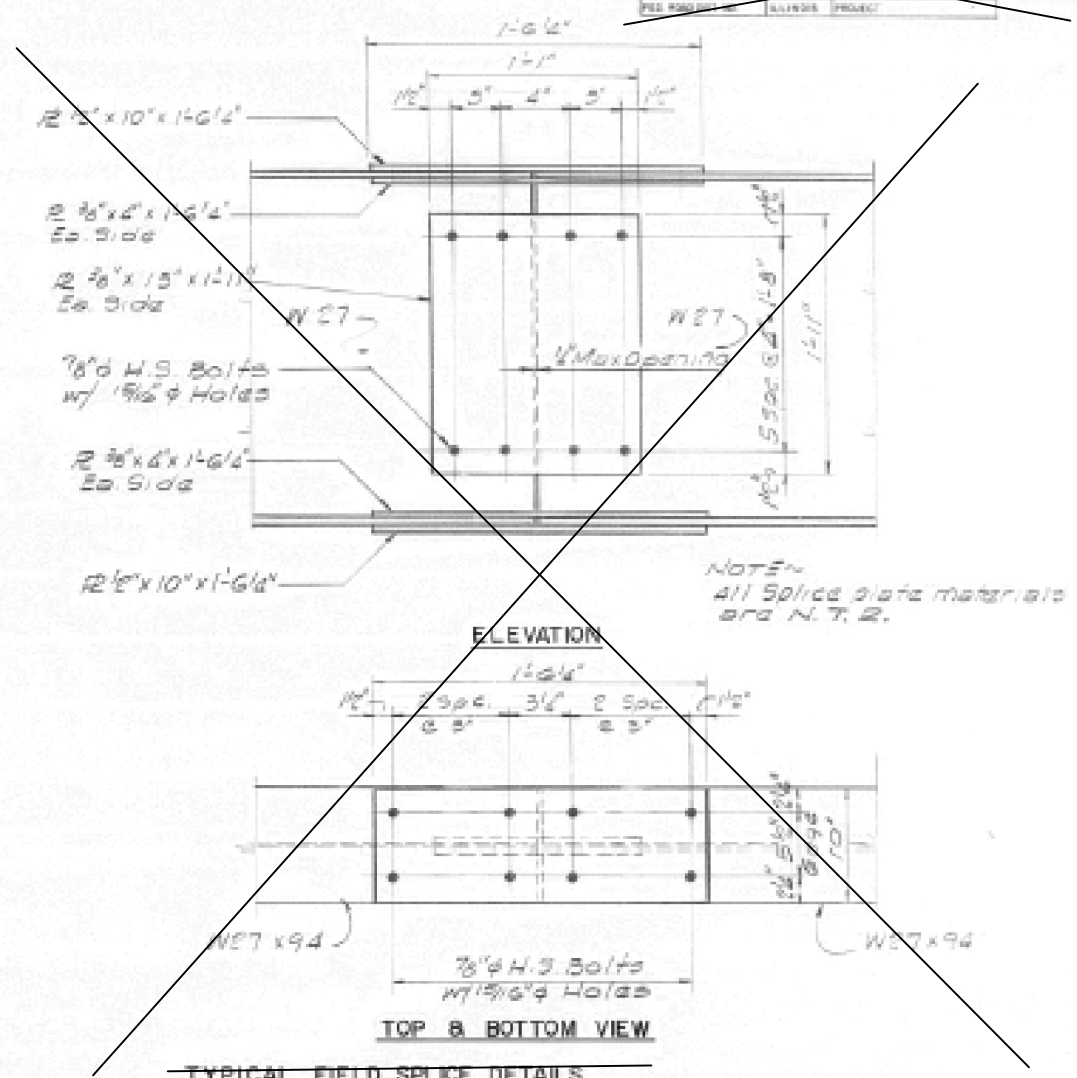
INTERIOR BEAM-MOMENT TABLE

	1.5 SPAK / 1.5 SPAN	1.5 SPAN	1.5 SPAN
I	52.70	52.70	52.70
S	267	267	267
E	0.957	0.957	0.957
W	158	277	153
M	282	282	282
IMP	78	25	78
M TOTAL	488	580	580
I _g TOTAL	350	487	487

INTERIOR BEAM-REACTION TABLE

	ABUTS	PIERS
R _Q	10.0	58.2
R _L	20.5	22.8
IMP	9.4	11.5
R TOTAL	40.0	92.5

I & S is the moment of inertia & Section modulus of the steel section used in computing total. The load factor 1.8 [1.2 + 0.5(4+1)] is used in computing stresses.

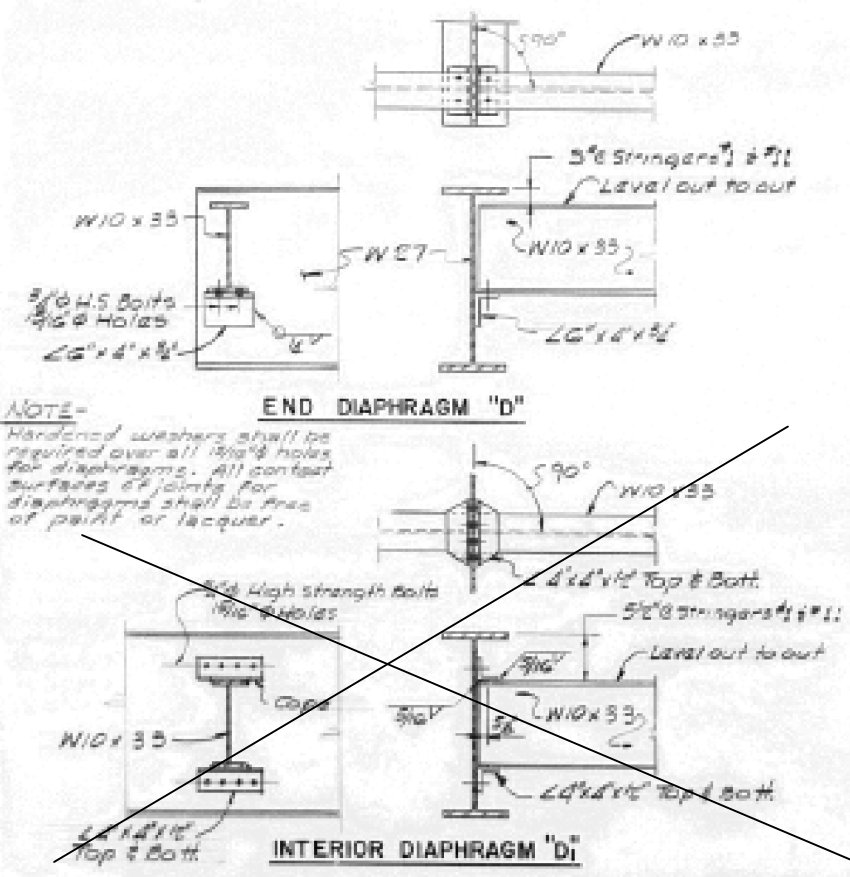


TYPICAL FIELD SPICE DETAILS

ELEVATIONS - TOP OF STRINGERS *

LOCATION	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8	Beam 9	Beam 10	Beam 11
Elev. NORTH Abut	46.25	46.55	46.65	46.75	46.86	46.96	46.86	46.75	46.65	46.55	46.45
Elev. Pier #1	46.76	47.06	47.16	47.26	47.37	47.47	47.37	47.26	47.16	47.06	46.96
E Splice #1	47.06	47.16	47.26	47.36	47.49	47.59	47.49	47.36	47.26	47.16	47.06
E Splice #2	47.47	47.57	47.67	47.77	47.88	47.98	47.88	47.77	47.67	47.57	47.47
Elev. Pier #2	47.61	47.71	47.81	47.91	48.02	48.12	48.02	47.91	47.81	47.71	47.61
Elev. SOUTH Abut	48.12	48.22	48.32	48.42	48.53	48.63	48.53	48.42	48.32	48.22	48.12

* For Fabrication Only



FOR INFORMATION ONLY

REVISIONS

NO.	BY	DATE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 ST. CLAIR COUNTY
 FA RTE 103 IL RTE 15
 SECTION 28-1BR
 STATION 222+60
 STRUCTURAL STEEL

DESIGNED BY: JOT
 DRAWN BY: ATH
 CHECKED BY: ATH
 APPROVED BY: [Signature]

DATE: 7/15/17
 SHEET 10 OF 20 SHEETS

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INDEX OF SHEETS

1. General Plan & Elevation
2. Deck Cross Section & Joint Details
3. Stage Traffic Lanes (Stage I & II)
4. Stage Traffic Lanes (Stage III)
5. Joint Removal & Replacement
6. Strip Seal Details
7. Bearing Replacement (N. Abutment)
8. Bearing Replacement (S. Abutment)
9. Pier Repairs
10. Temporary Concrete Barrier
11. Bar Splicers
12. F.I.O. - Existing Bearings
13. F.I.O. - W. Pier
14. F.I.O. - N. Abut.
15. F.I.O. - S. Abut.

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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.

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.

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

Existing reinforcement bars extending into 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.

Bridge deck concrete sealer shall be placed on top/inside faces of parapets (full length)/ wingwalls. In addition, place sealer on median (full length), on top of new concrete at joints and on sidewalk & curb adjacent to wingwall.

All structural steel, plates, anchor bolts, bolts, nuts and washers shall be galvanized according to AASHTO M111 or M232 as applicable. Cost included with Furnishing and Erecting Structural Steel.

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

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

Remove existing concrete barrier at centerline to place HMA, replace deck ends & for proposed traffic staging. The new permanent barrier shall not be pinned.

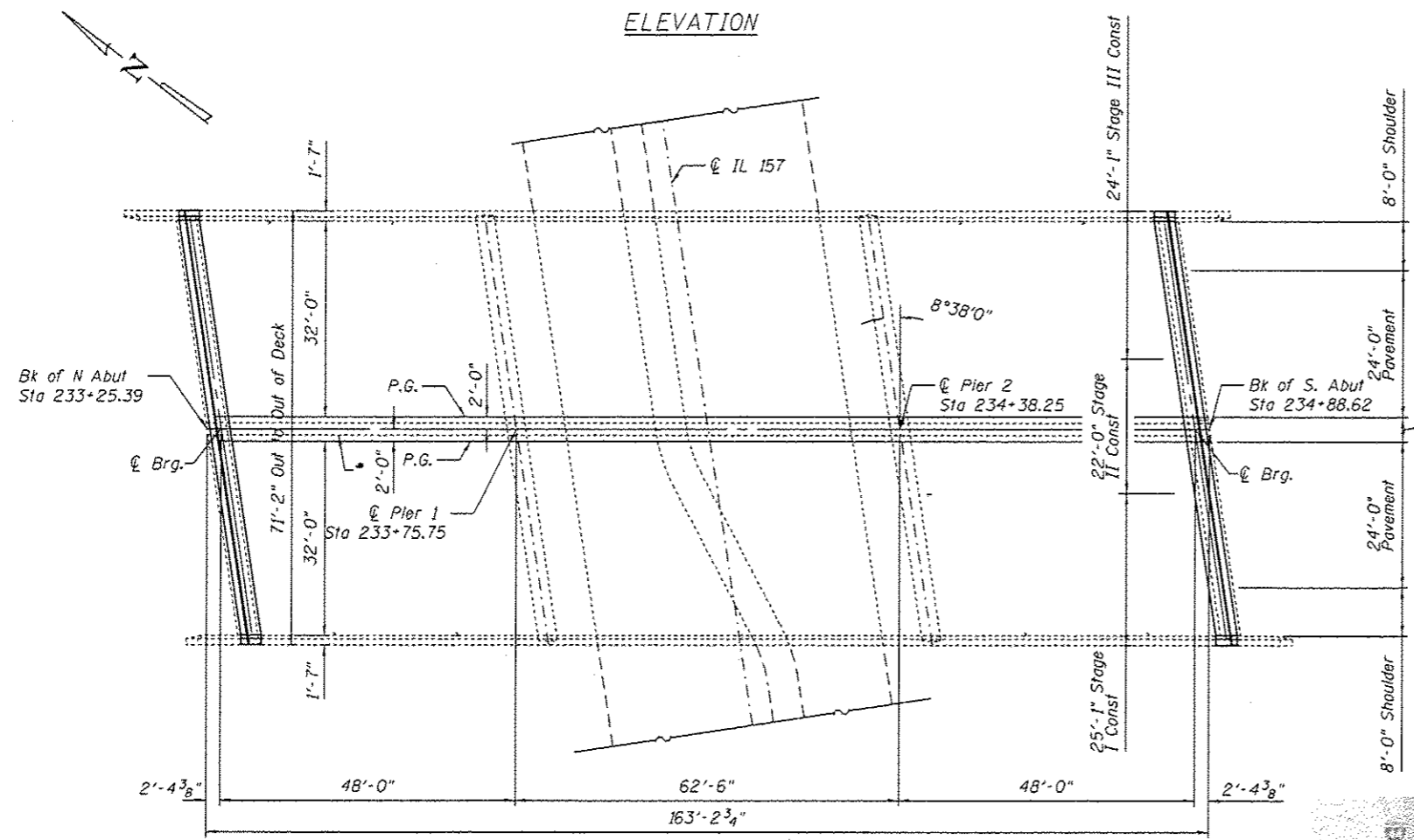
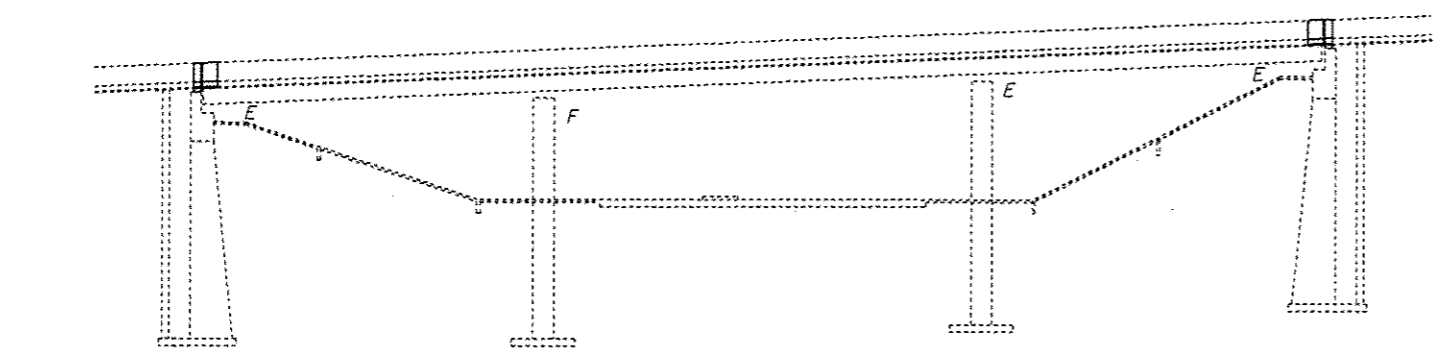
The concrete on both sides of the joints shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with "Concrete Superstructure".

* Remove existing Temporary Concrete Barrier & place new Temporary Concrete Barrier (To Remain Permanently)

** Quantities are estimated. The Engineer shall determine the actual locations, and record them in the As-Built plans.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Polymerized HMA Surface Course, Mix "E" N90	Ton	99
Concrete Removal	Cu. Yd.	20.2
Concrete Superstructure	Cu. Yd.	22.8
Concrete Structures	Cu. Yd.	1.6
Furnishing and Erecting Structural Steel	Pound	2410
Reinforcement Bars, Epoxy Coated	Pound	2420
Bar Splicers	Each	36
Preformed Joint Strip Seal	Foot	142
Elastomeric Bearing Assembly, Type I	Each	10
Elastomeric Bearing Assembly, Type II	Each	10
Anchor Bolts, 1"	Each	40
Waterproofing Membrane System	Sq. Yd.	1183
Bridge Deck Concrete Sealer	Sq. Ft.	1734
Structural Steel Removal	Pound	5160
** Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	10
** Deck Slab Repair (Partial)	Sq. Yd.	50
Jack and Remove Existing Bearings	Each	20
** Structural Repair of Concrete (Depth <=5")	Sq. Ft.	400
** Structural Repair of Concrete (Depth >5")	Sq. Ft.	20

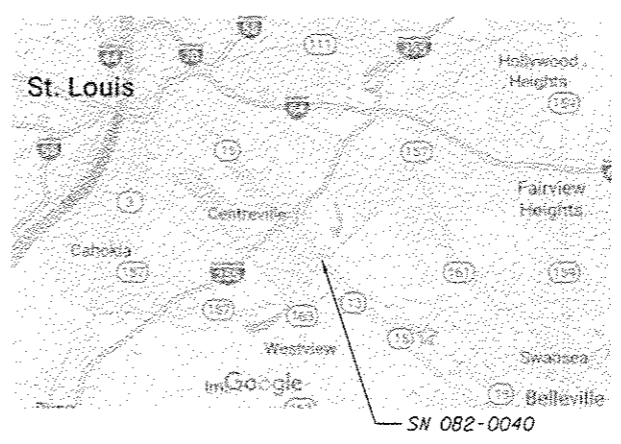


SCOPE OF WORK

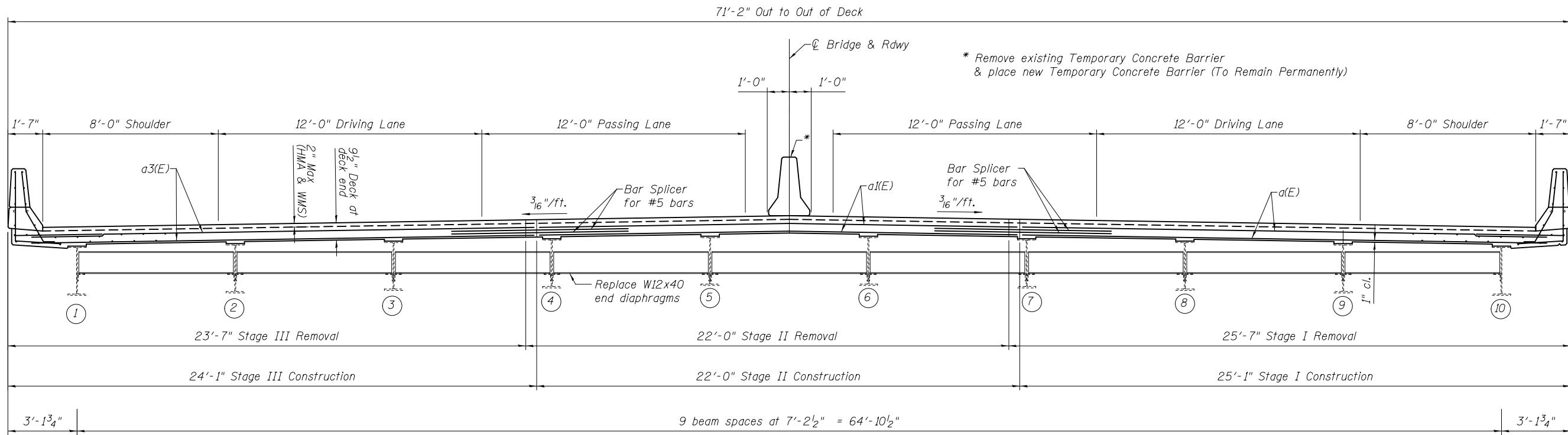
- Replace deck ends & hatchblocks
- Install Preformed Joint Strip Seals
- HMA Overlay with WMS on deck & HMA overlay on approaches
- Minor Deck Slab Repair
- Replace existing abutment bearing with elastomeric bearings
- Concrete repair of west pier center column with 4" concrete encasement surrounding the column.



Expires 11/30/18

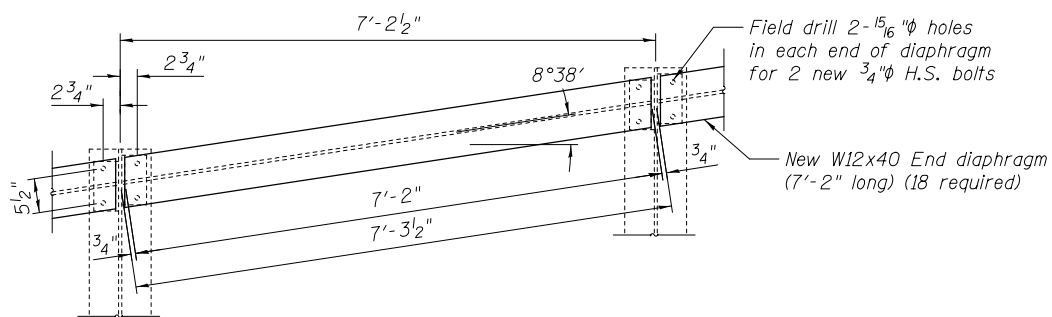


LOCATION SKETCH

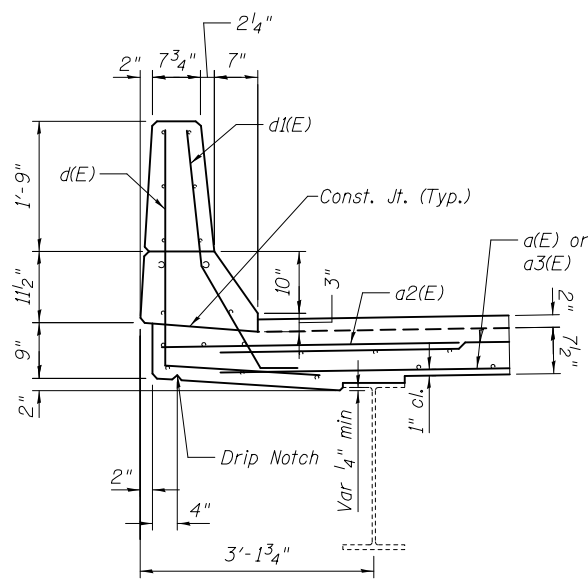


DECK CROSS SECTION

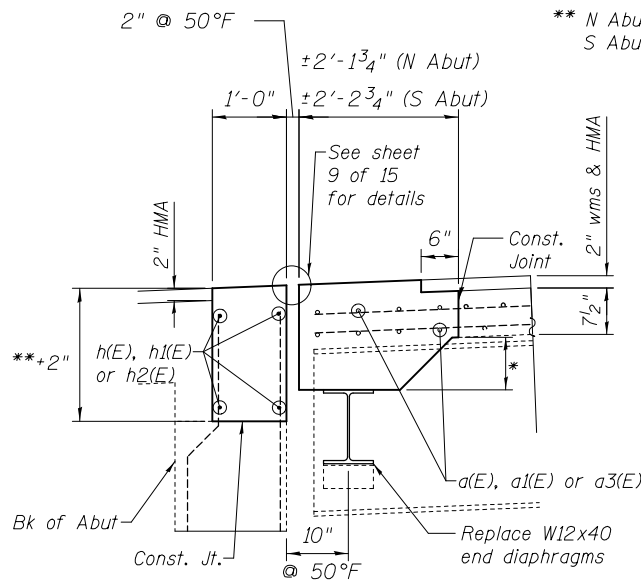
(Looking South @ Joint Locations)



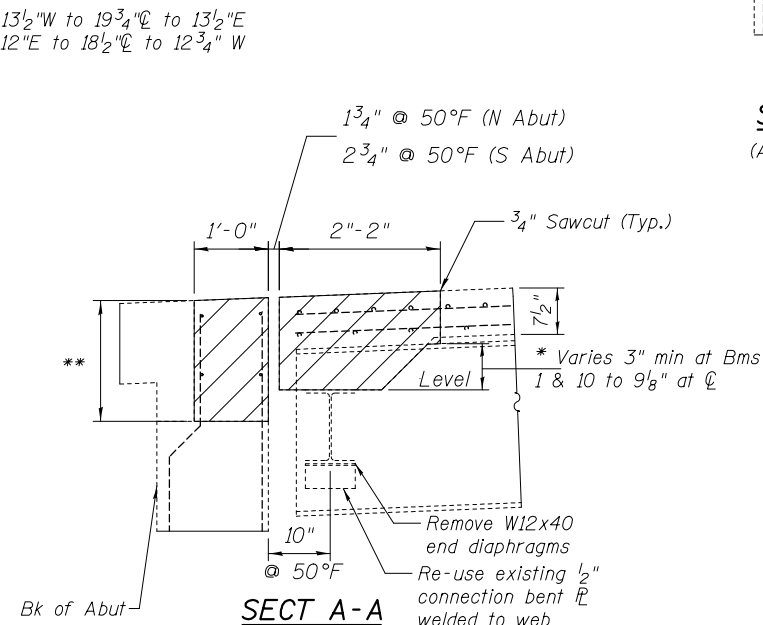
END DIAPHRAGM PLAN



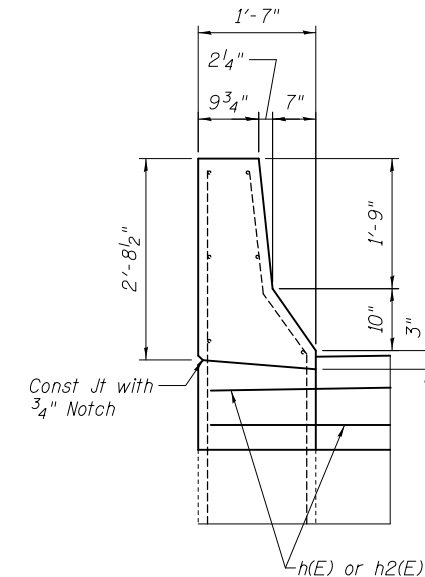
PARAPET SECTION



SECT B-B

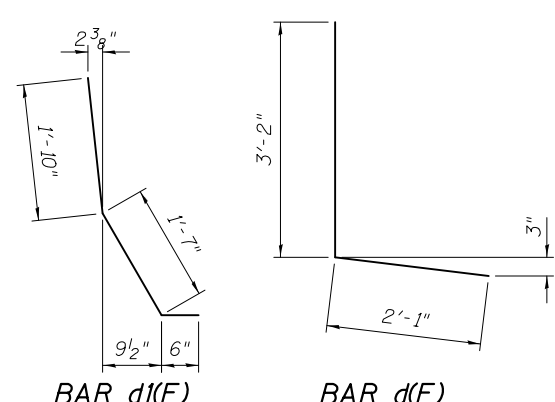


SECT A-A



SECT C-C

(Approach Side)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#5	24'-2"	—
a1(E)	16	#5	22'-0"	—
a2(E)	8	#6	4'-0"	—
a3(E)	16	#5	23'-2"	—
d(E)	12	#4	5'-3"	J
d1(E)	12	#5	3'-11"	J
h(E)	8	#6	25'-0"	—
h1(E)	8	#6	22'-0"	—
h2(E)	8	#6	23'-5"	—
Reinforcement Bars, Epoxy Coated			Pound	2140
Concrete Superstructure			Cu. Yds.	22.8
Concrete Removal			Cu. Yds.	20.2
Furnishing & Erecting Structural Steel			Pound	5160
Structural Steel Removal			Pound	5160

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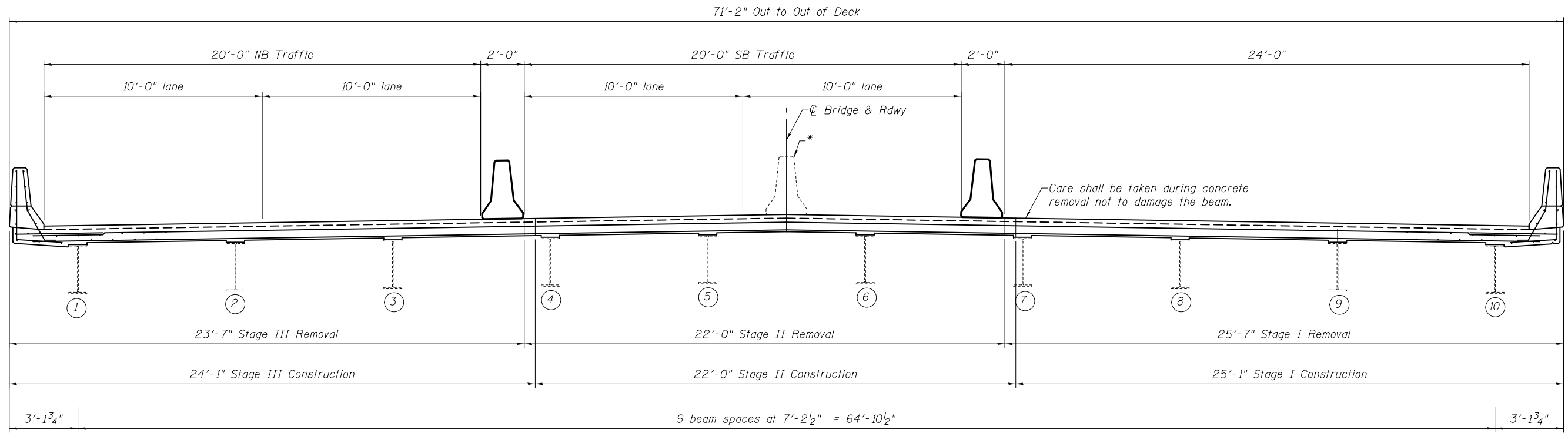
DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISED
CHECKED - ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
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DECK CROSS SECTION & JOINT DETAILS
SN 082-0040

SHEET NO. 2 OF 15 SHEETS

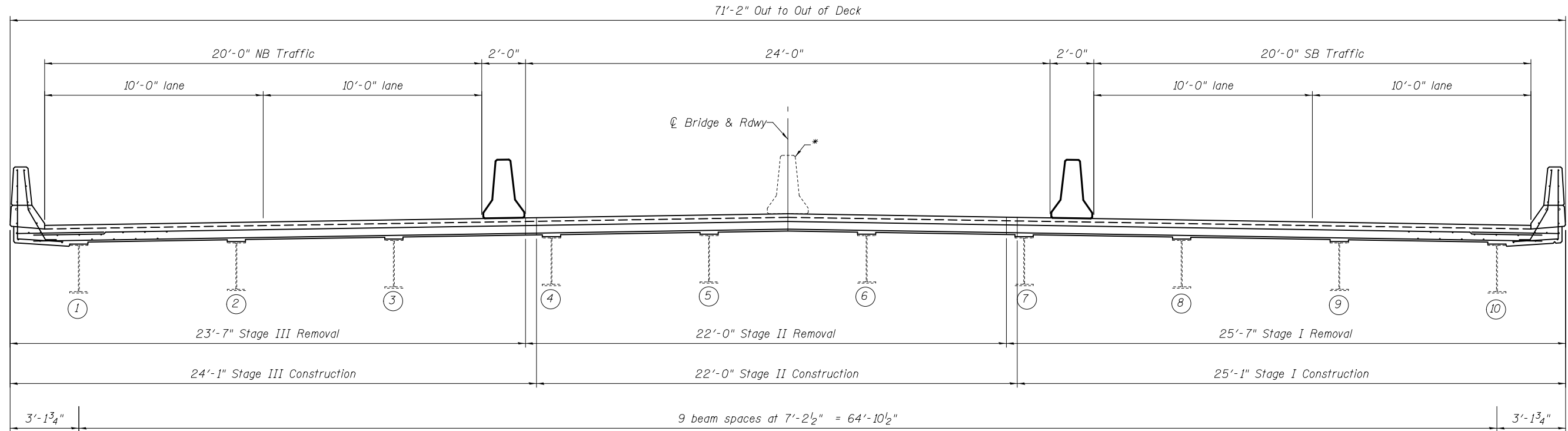
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	43
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



STAGE I TRAFFIC

(Looking South)

* Remove existing Temporary Concrete Barrier & place new Temporary Concrete Barrier (To Remain Permanently)



STAGE II TRAFFIC

(Looking South)

* Remove existing Temporary Concrete Barrier & place new Temporary Concrete Barrier (To Remain Permanently)

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CHECKED - ATH	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISED
CHECKED - ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

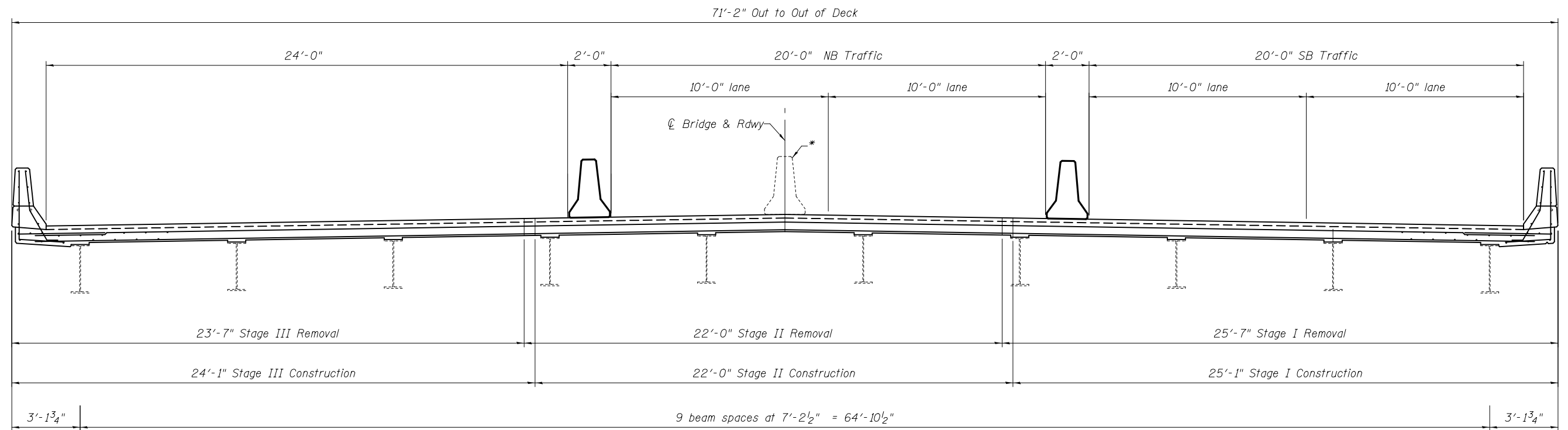
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE TRAFFIC LANES (STAGE I & II)
SN 082-0040**

SHEET NO. 3 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	44
CONTRACT NO. 76J01				

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* Remove existing Temporary Concrete Barrier & place new Temporary Concrete Barrier (To Remain Permanently)

STAGE III TRAFFIC
(Looking South)

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DRAWN - AYV	PASSED	REVISED
CHECKED - ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

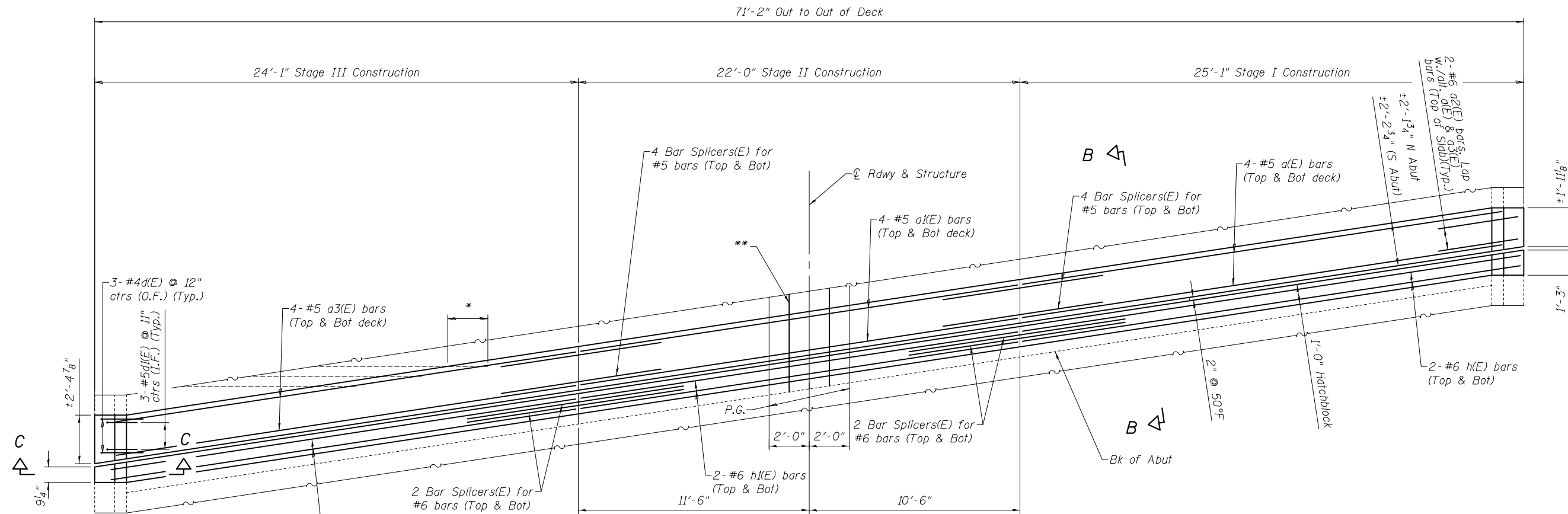
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE TRAFFIC LANES (Stage III)
SN 082-0040**

SHEET NO. 4 OF 15 SHEETS

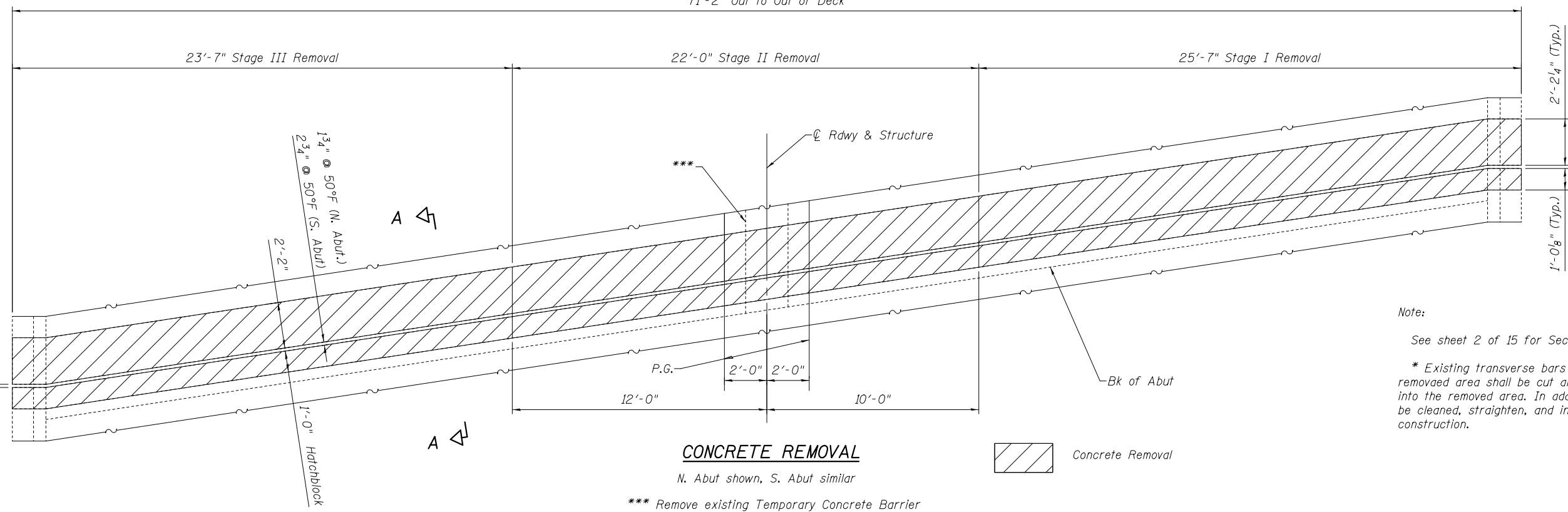
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	45
CONTRACT NO. 76J01				

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CONCRETE REPLACEMENT

N. Abut shown, S Abut similar
 ** Temporary Concrete Barrier (To Remain Permanently)



CONCRETE REMOVAL

N. Abut shown, S. Abut similar

*** Remove existing Temporary Concrete Barrier

Note:

See sheet 2 of 15 for Sections A-A, B-B & C-C.

* Existing transverse bars extending from deck into removed area shall be cut allowing 2'-0" to extend into the removed area. In addition, these cut bars shall be cleaned, straighten, and incorporated into the new construction.

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DRAWN - AYV	PASSED	REVISED
CHECKED - ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

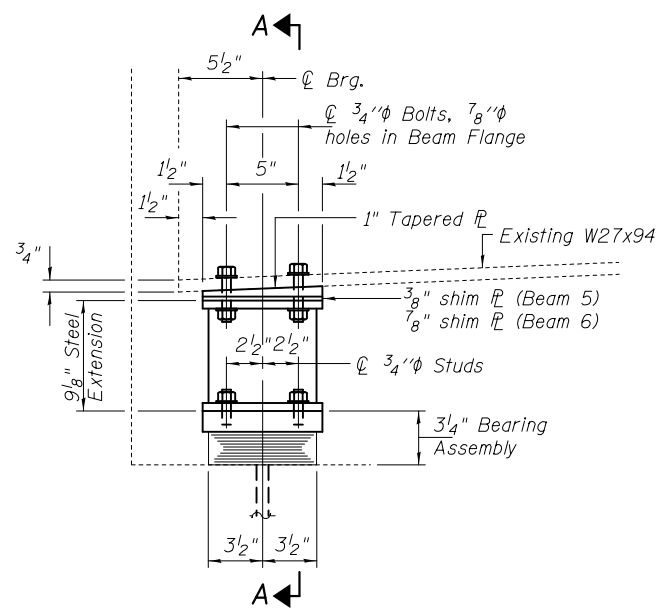
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL & REPLACEMENT
 SN 082-0040**

SHEET NO. 5 OF 15 SHEETS

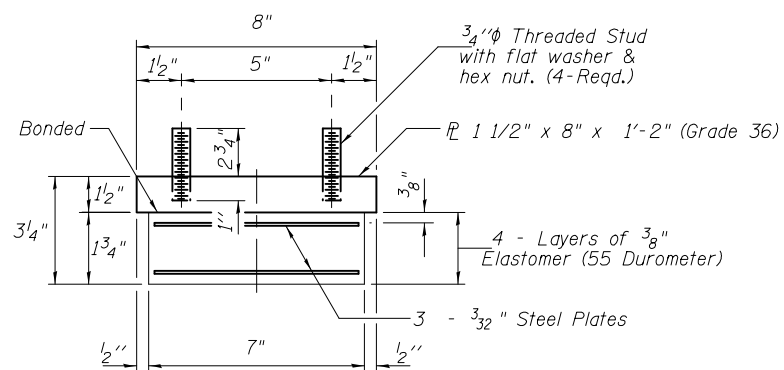
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	46
				76J01

ILLINOIS FED. AID PROJECT



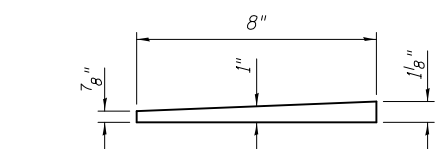
ELEVATION AT ABUTMENT

TYPE I ELASTOMERIC EXP. BRG.



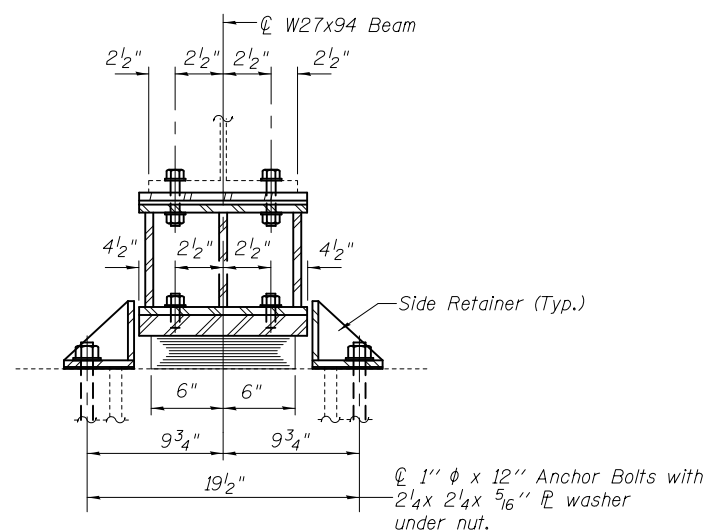
BEARING ASSEMBLY

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

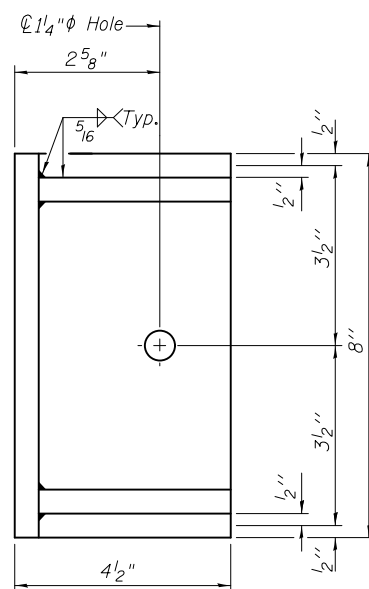


TAPERED TOP PLATE

Identical 1/8" x 8" x 1'-2" tapered plates required at both Abutments



SECTION A-A



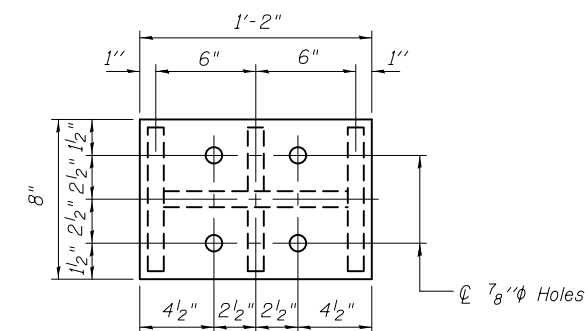
SIDE RETAINER

Identical retainers required at both abutments.
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

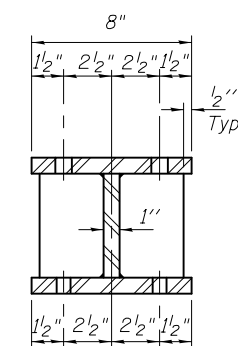
BEAM REACTIONS

R _l	(K)	18.3
R _t	(K)	36.9
Imp.	(K)	10.7
R (Total)	(K)	65.9

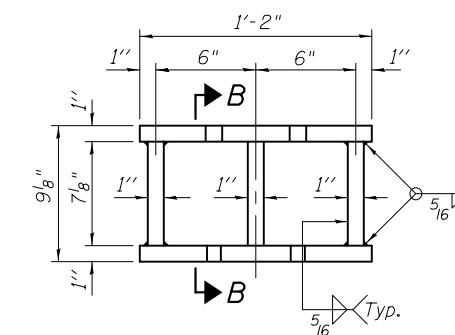
Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 32 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type I.



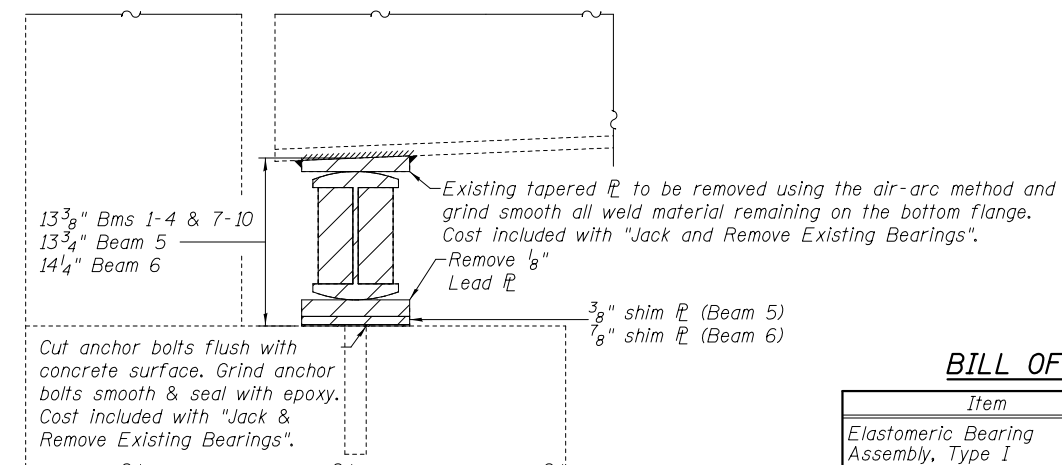
PLAN TOP AND BOTTOM PLATE



SECTION B-B



STEEL EXTENSION DETAIL



EXISTING BEARING REMOVAL DETAIL

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	10
Jack and Remove Existing Bearings	Each	10
Furnishing and Erecting Structural Steel	Pound	1300
Anchor Bolts 1"φ	Each	20

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CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISION

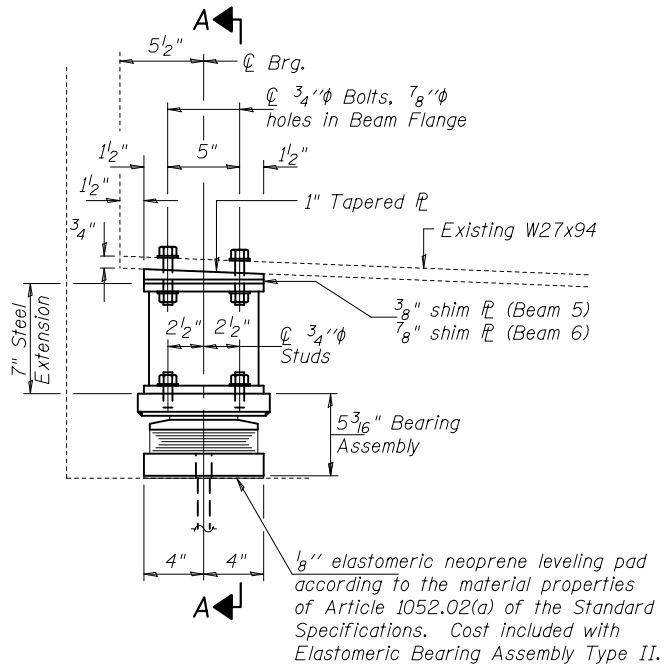
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPE I BEARING REPLACEMENT (N. ABUTMENT)
SN 082-0040**

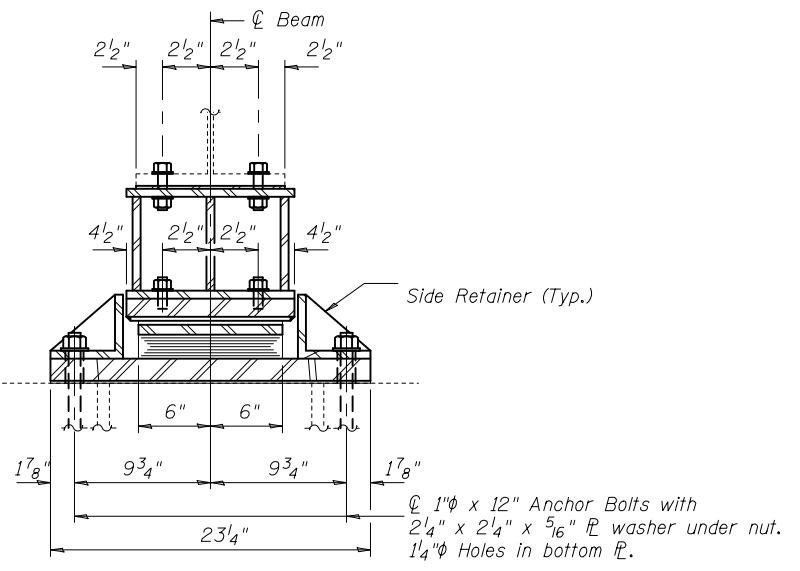
SHEET NO. 6 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	47
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				

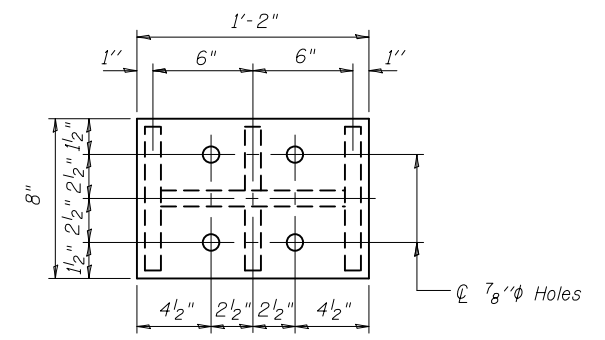
Notes:
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. Jack capacity = 32 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.
 The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
 Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer. See previous sheet for side retainer details.



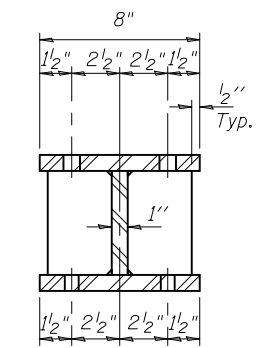
ELEVATION AT ABUTMENT



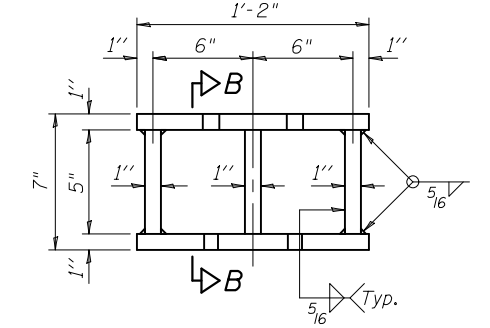
SECTION A-A



PLAN TOP AND BOTTOM PLATE

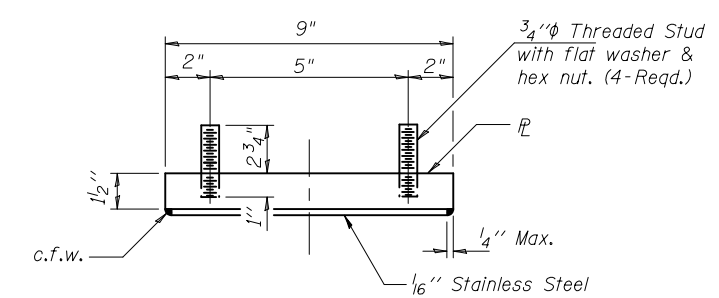


SECTION B-B

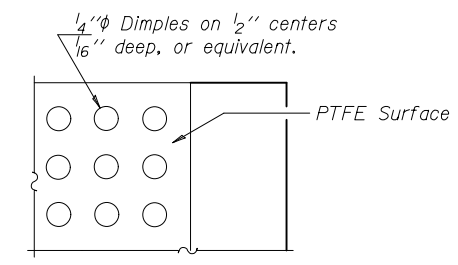


STEEL EXTENSION DETAIL

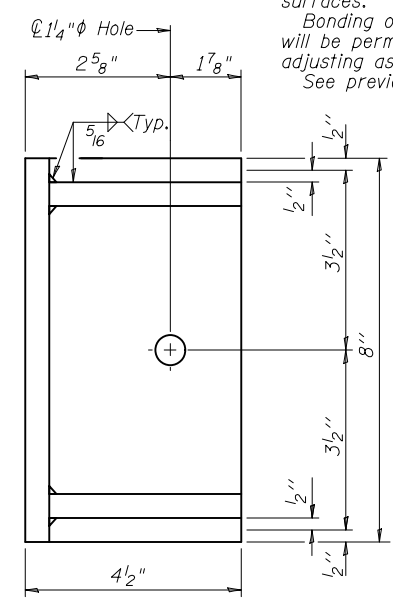
TYPE II TFE ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY

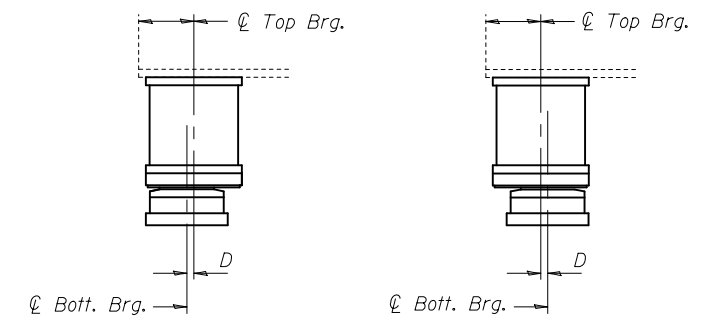


PLAN-PTFE SURFACE



SIDE RETAINER

Identical retainers required at both abutments. Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

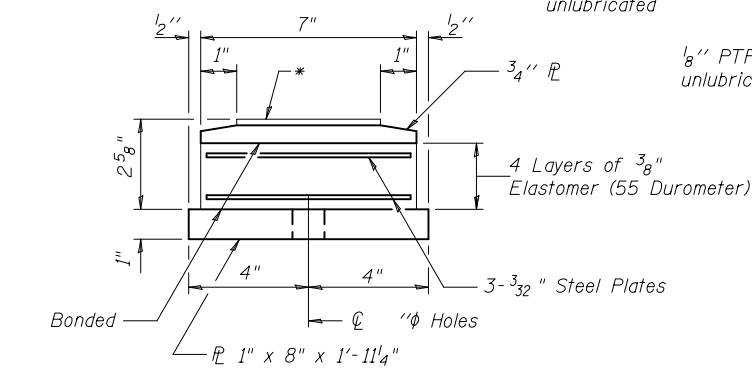


BELOW 50° F. (Move bott. brg. away from fixed brg.) ABOVE 50° F. (Move bott. brg. toward fixed brg.)

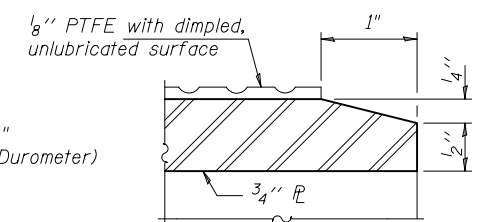
SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

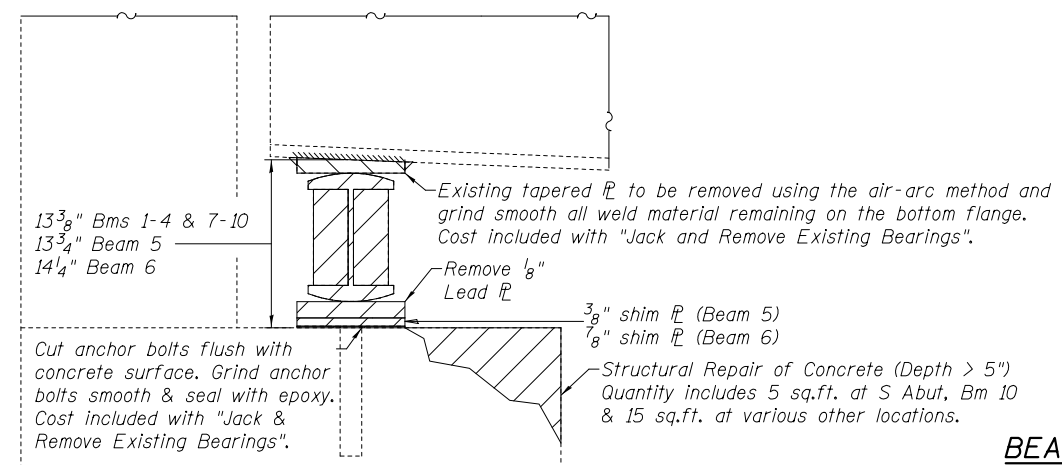
* 1/8" PTFE dimpled, unlubricated



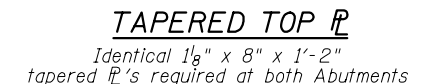
BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



EXISTING BEARING REMOVAL DETAIL



TAPERED TOP PLATE
 Identical 1/8" x 8" x 1'-2" tapered PL's required at both Abutments

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	10
Jack and Remove Existing Bearings	Each	10
Furnishing and Erecting Structural Steel	Pound	1110
Anchor Bolts 1" dia	Each	20

BEAM REACTIONS

R _{PL}	(K)	18.3
R _L	(K)	36.9
Imp.	(K)	10.7
R (Total)	(K)	65.9

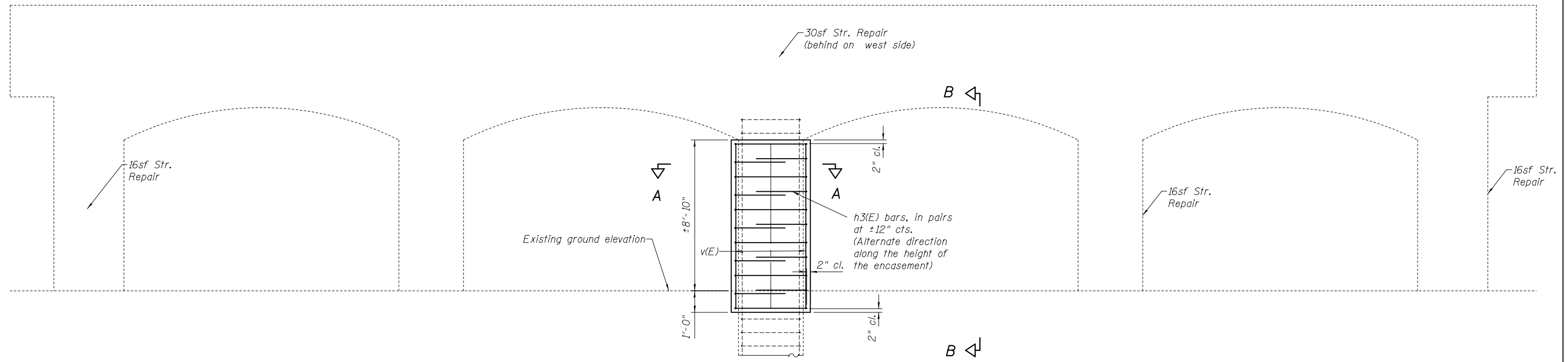
DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
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DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
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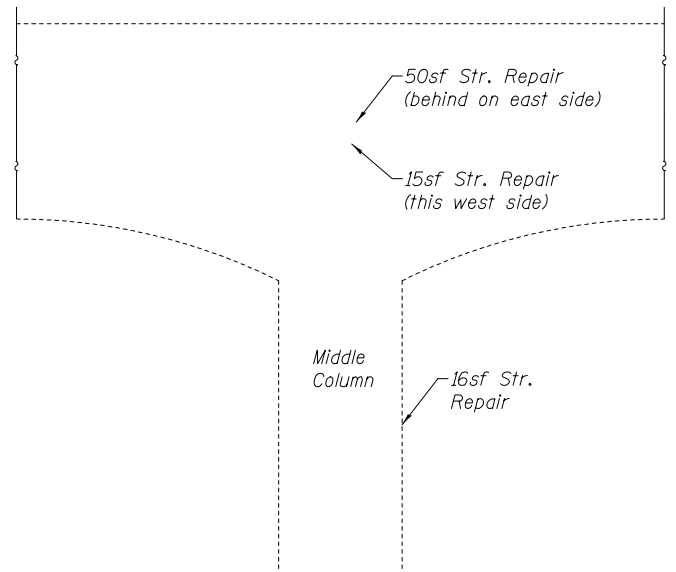
TYPE II BEARING REPLACEMENT (S. ABUTMENT)
 SN 082-0040

SHEET NO. 7 OF 15 SHEETS

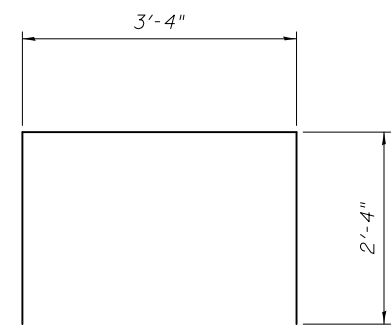
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	48
				CONTRACT NO. 76J01
ILLINOIS FED. AID PROJECT				



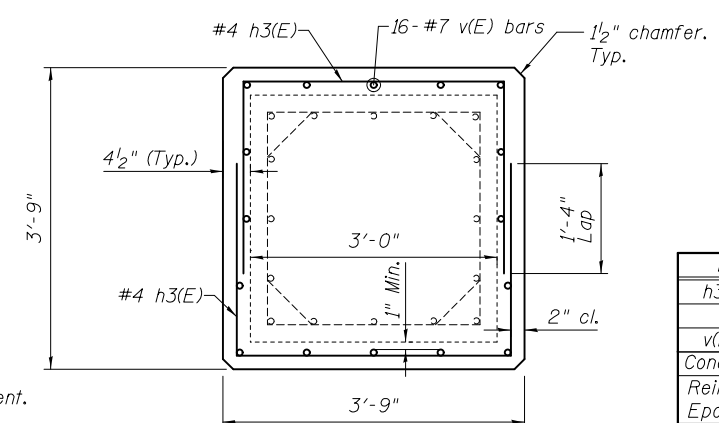
PIER 1
(Looking West)



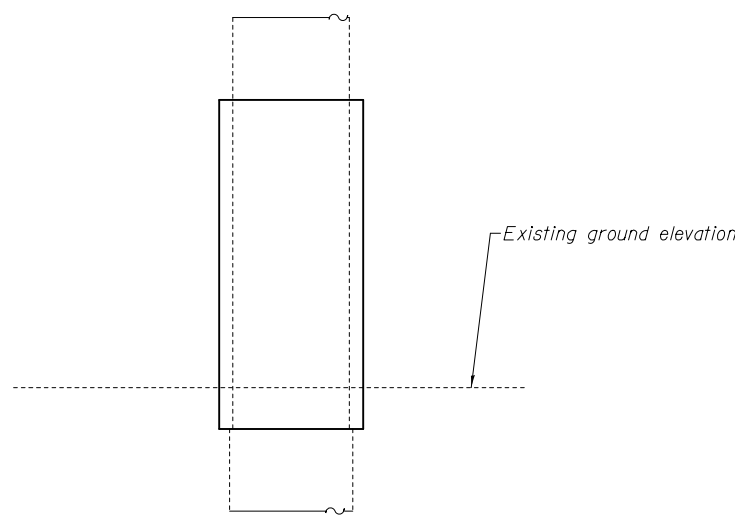
PIER 2
(Looking East)



BAR h3(E)



SECTION A-A



VIEW B-B
Pier 1, Center Column

Concrete Structures quantity is based on a 9'-10" encasement length. All loose and unsound concrete shall be removed prior to the column encasement.

An estimated quantity of 400sf of Structural Repair of Concrete, Depth <5" is included for various locations of both piers, in addition to the column encasement shown for Pier 1. The most severe 159sf of repair areas are shown. Shotcrete will not be allowed.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	22	#4	8'-0"	□
v(E)	16	#5	9'-6"	—
Concrete Structures			Cu. Yd.	1.6
Reinforcement Bars, Epoxy Coated			Pound	280
Structural Repair of Concrete, (Depth <= 5")			Sq. Ft.	400

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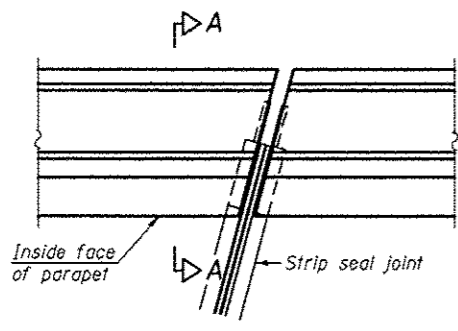
DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
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DRAWN - AYV	PASSED	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

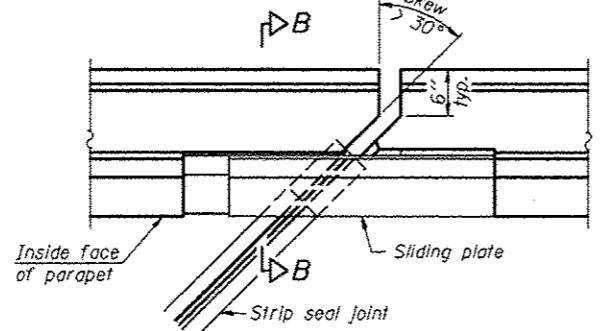
PIER REPAIRS
SN 082-0040

SHEET NO. 8 OF 15 SHEETS

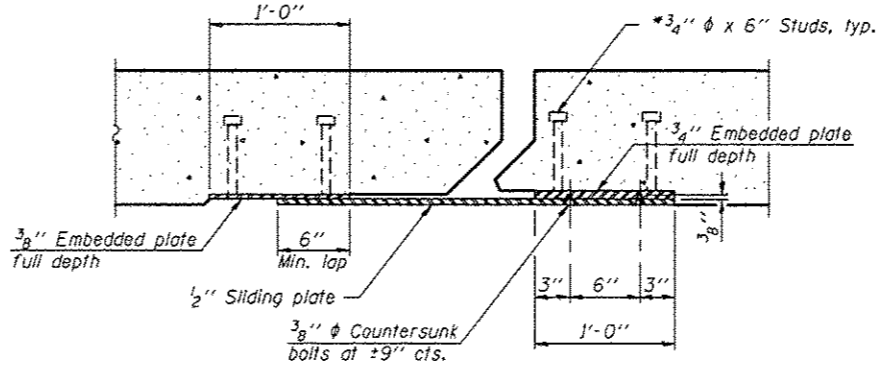
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	49
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



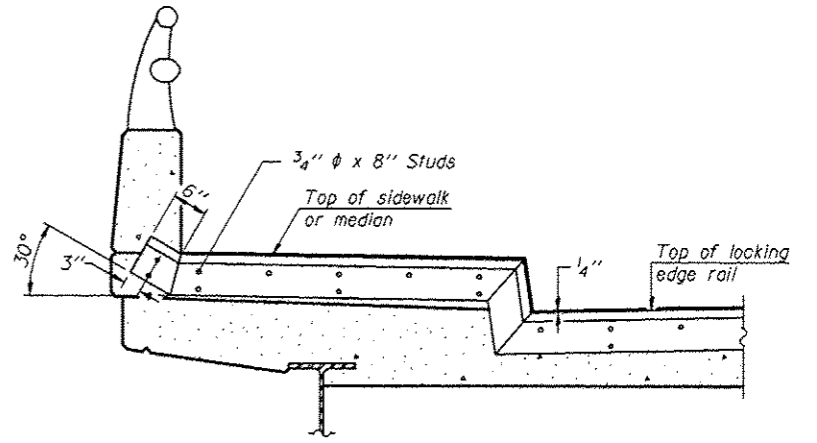
PLAN
(For skews $\leq 30^\circ$)



PLAN
(For skews $> 30^\circ$)
Showing point block

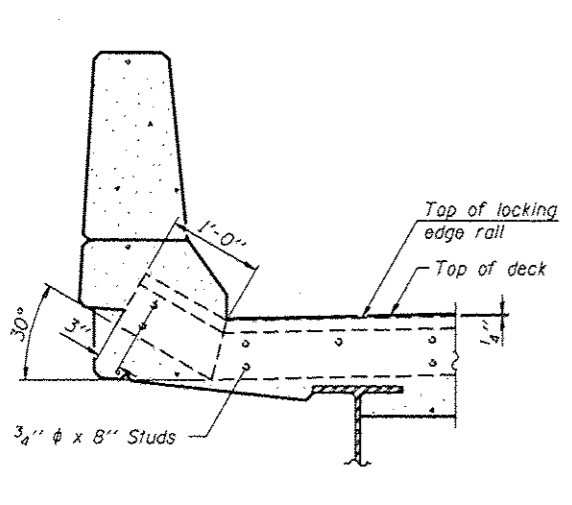


SECTION C-C

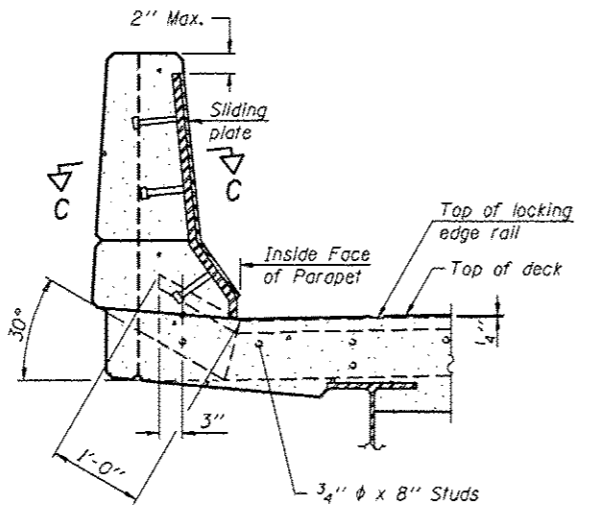


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

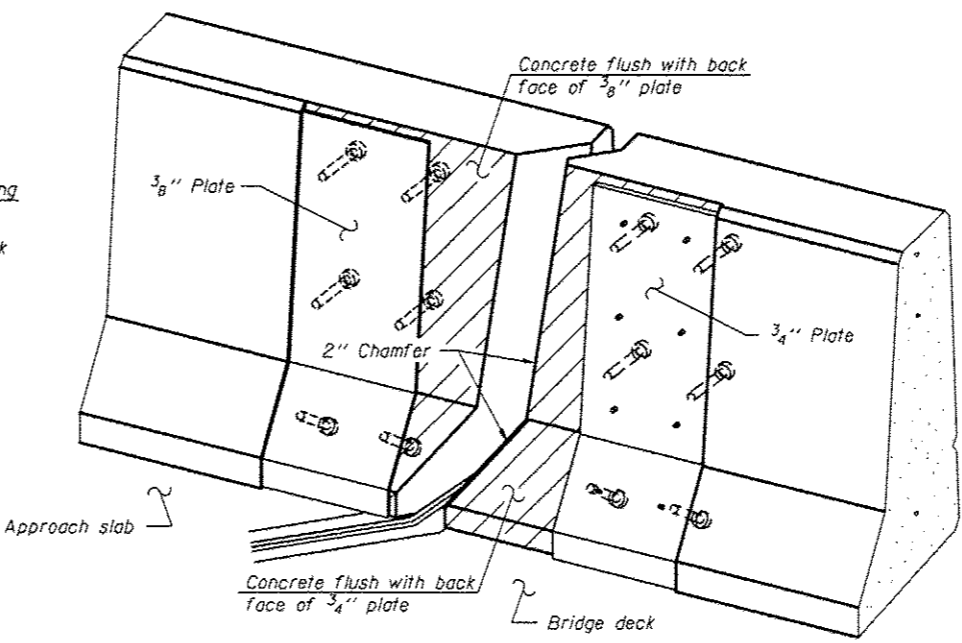
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

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.

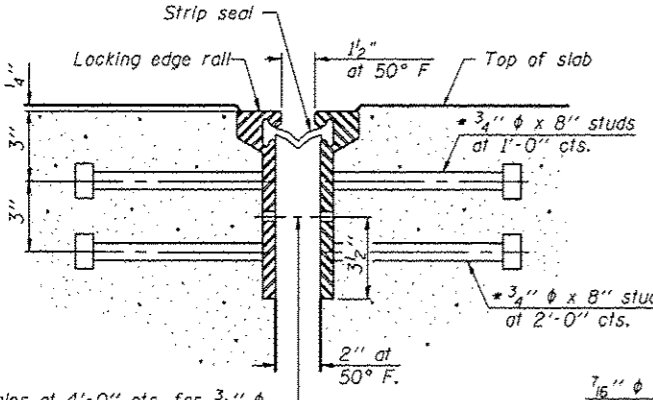
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

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.

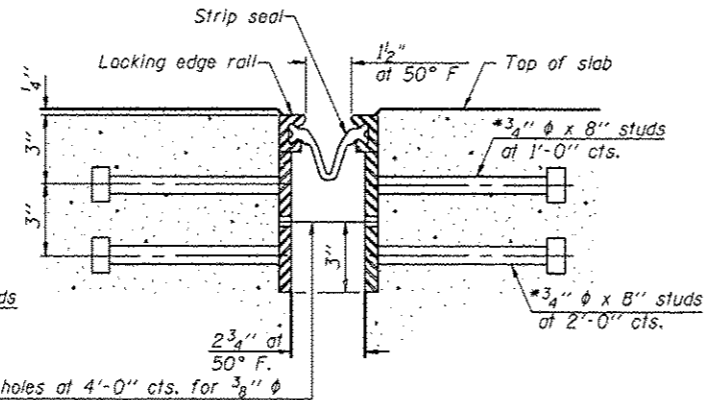
Parapet plates and anchorage studs for skews $> 30^\circ$ included in the cost of Preformed Joint Strip Seal.

7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

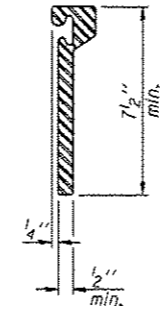
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



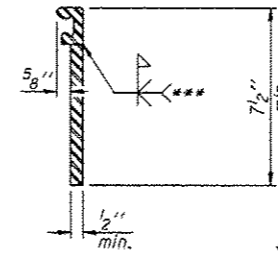
SECTION THRU ROLLED RAIL JOINT



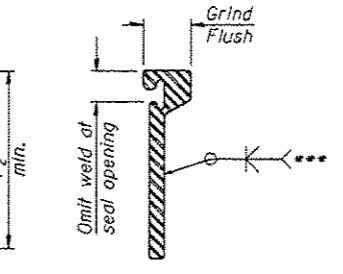
SECTION THRU WELDED RAIL JOINT



ROLLED EXTRUDED RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

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

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	142

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

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EJ-SSJ

11-22-2016

DESIGNED - AYY	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	PASSED	REVISED
DRAWN - AYY		REVISED
CHECKED - ATH		

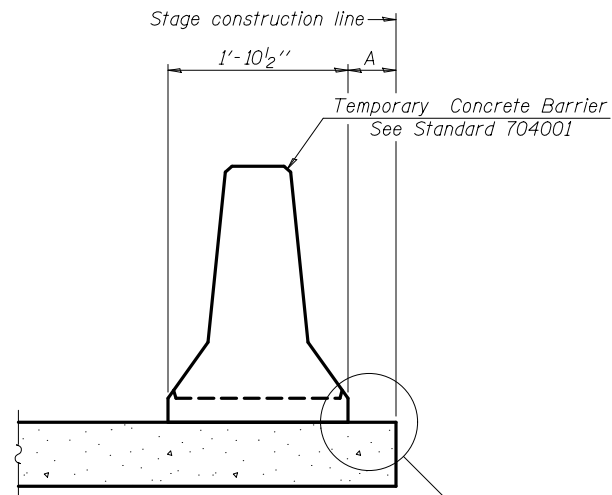
ENGINEER OF STRUCTURAL SERVICES	STATE OF ILLINOIS
ENGINEER OF BRIDGES AND STRUCTURES	DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 082-0040

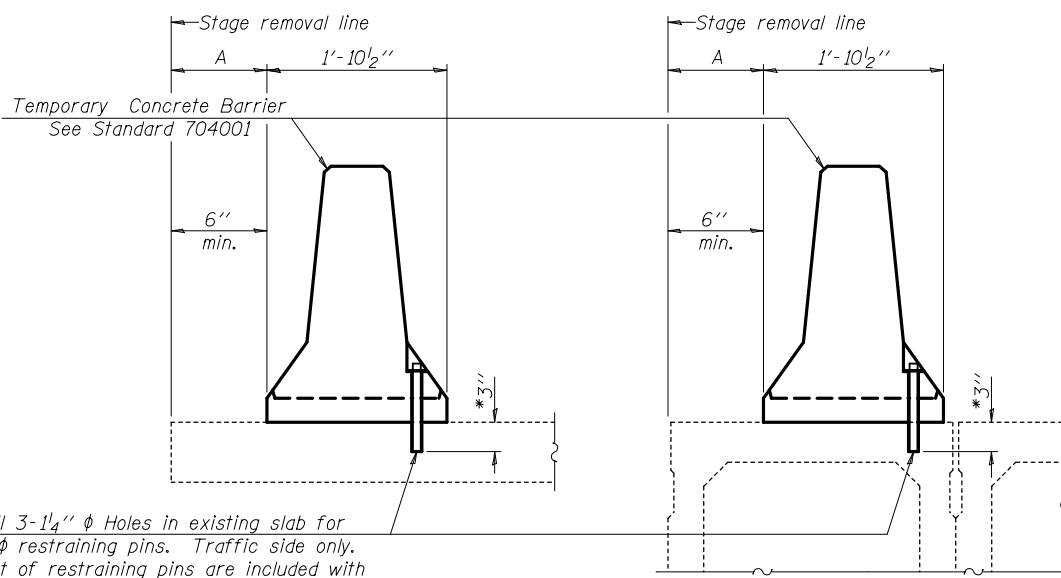
SHEET NO. 9 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-JBR-1	ST CLAIR	62	50
			CONTRACT NO. 76J01	
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

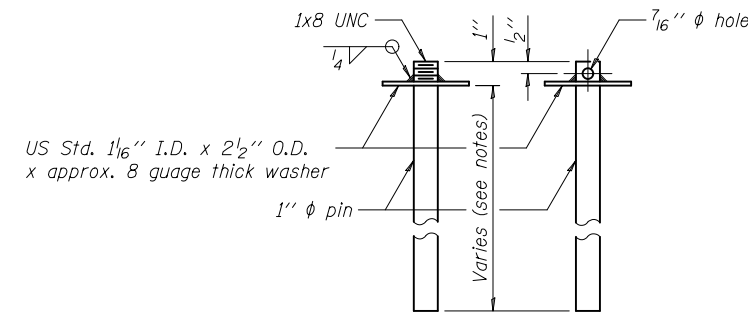
NEW SLAB OR NEW DECK BEAM



Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

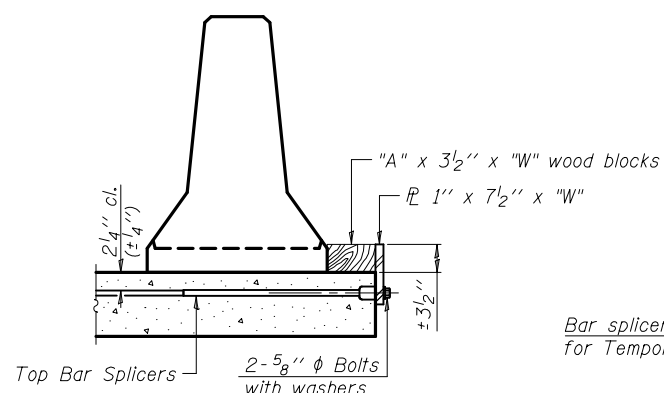
EXISTING DECK BEAM



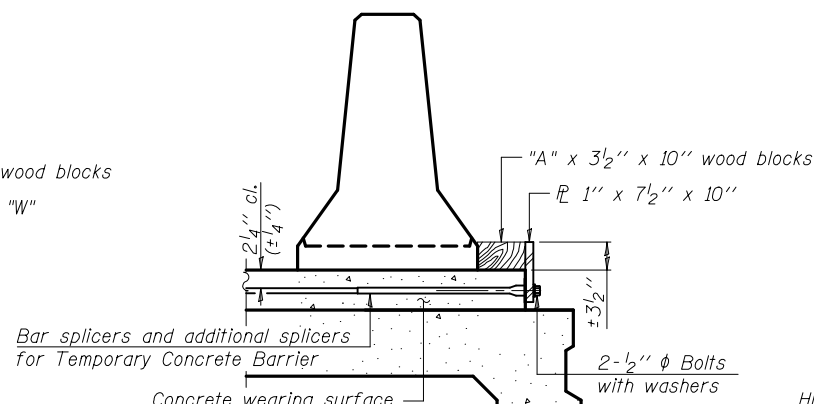
RESTRAINING PIN

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

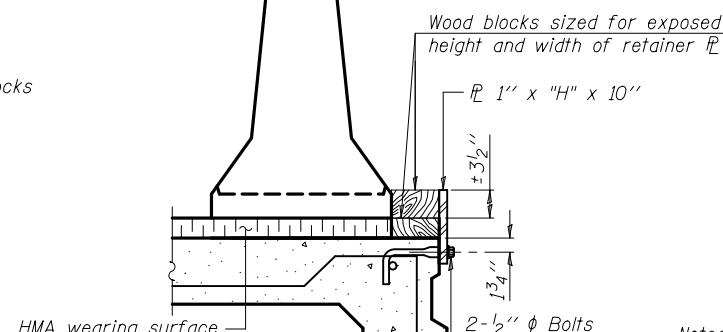
SECTIONS THRU SLAB OR DECK BEAM



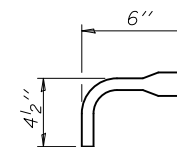
DETAIL I



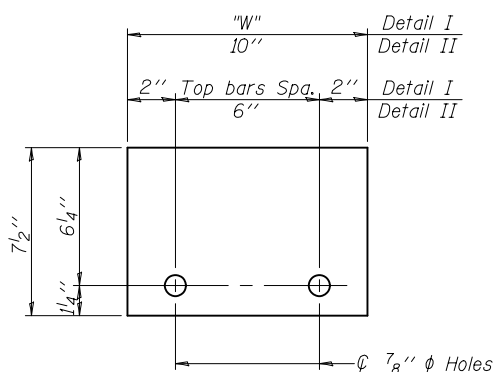
DETAIL II



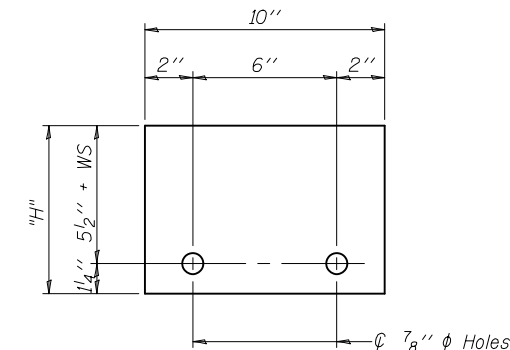
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 7 1/2" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate ϕ of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

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R-27 07-22-16

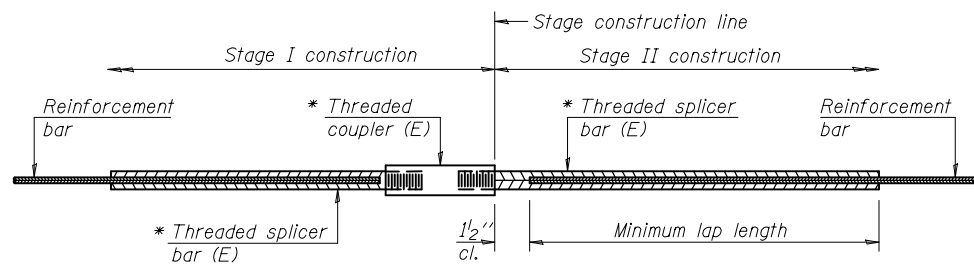
DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
SN 082-0040

SHEET NO. 10 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	51
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				

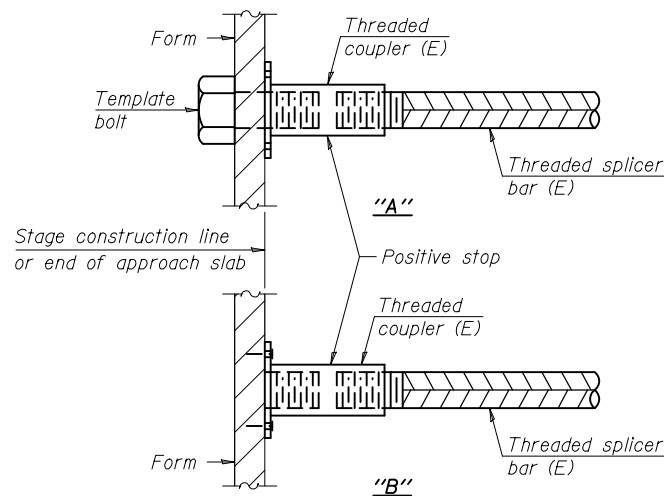


STANDARD BAR SPLICER ASSEMBLY

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

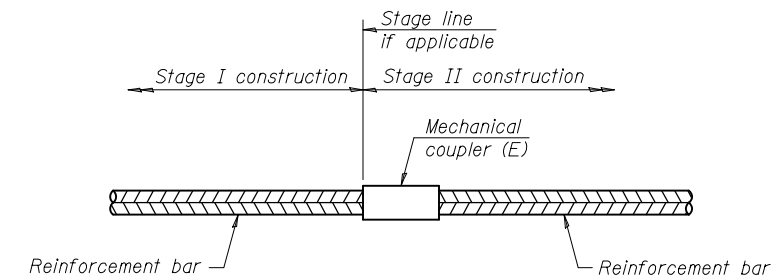
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
N Abut (Hatchblock)	#6	8	4'-0"
N Abut (Deck)	#5	16	3'-6"
S Abut (Deck)	#5	16	3'-6"
S Abut (Hatchblock)	#6	8	4'-0"



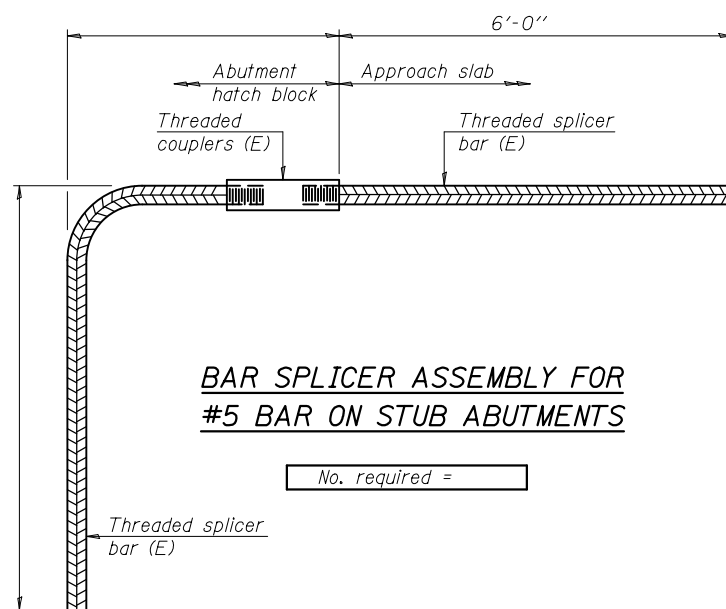
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

1/18/2017 1:41:16 PM

BSD-1

11-22-2016

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

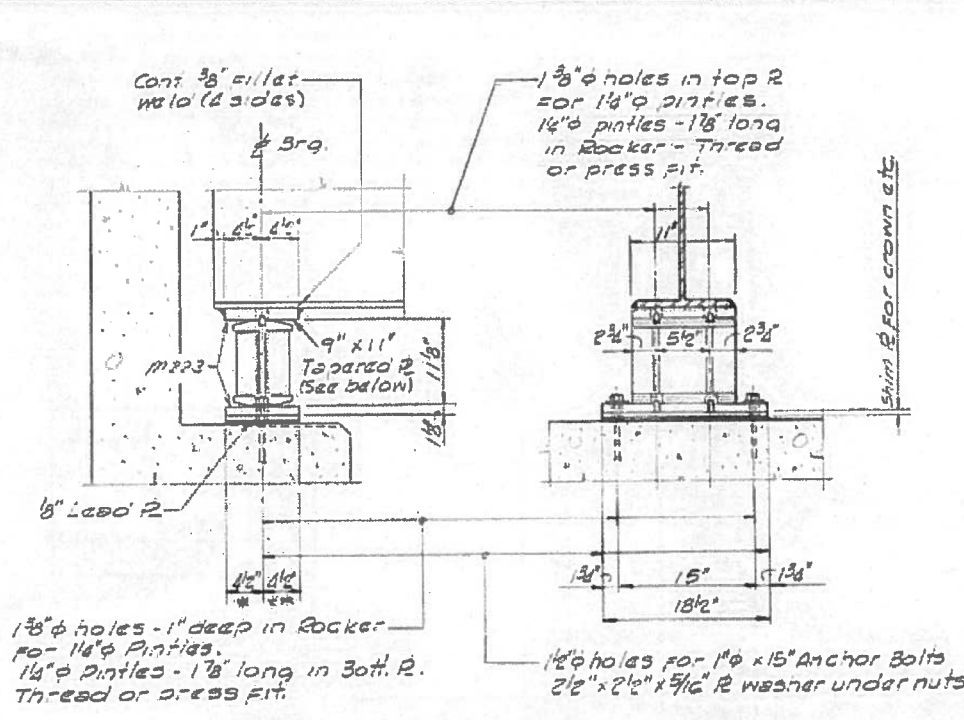
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 082-0040

SHEET NO. 11 OF 15 SHEETS

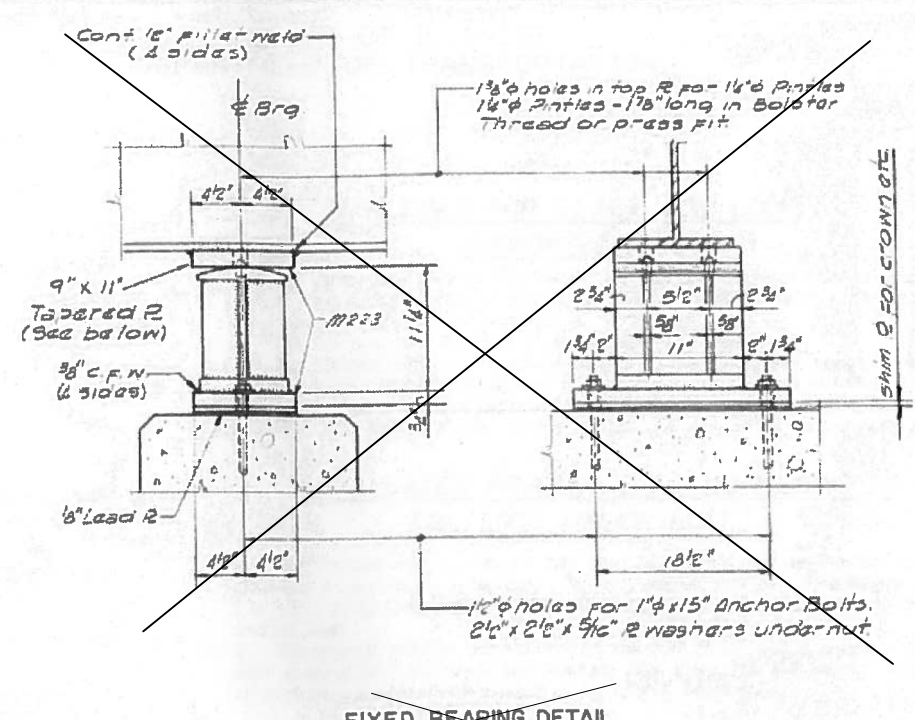
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1	ST CLAIR	62	52
CONTRACT NO. 76J01				

ILLINOIS FED. AID PROJECT

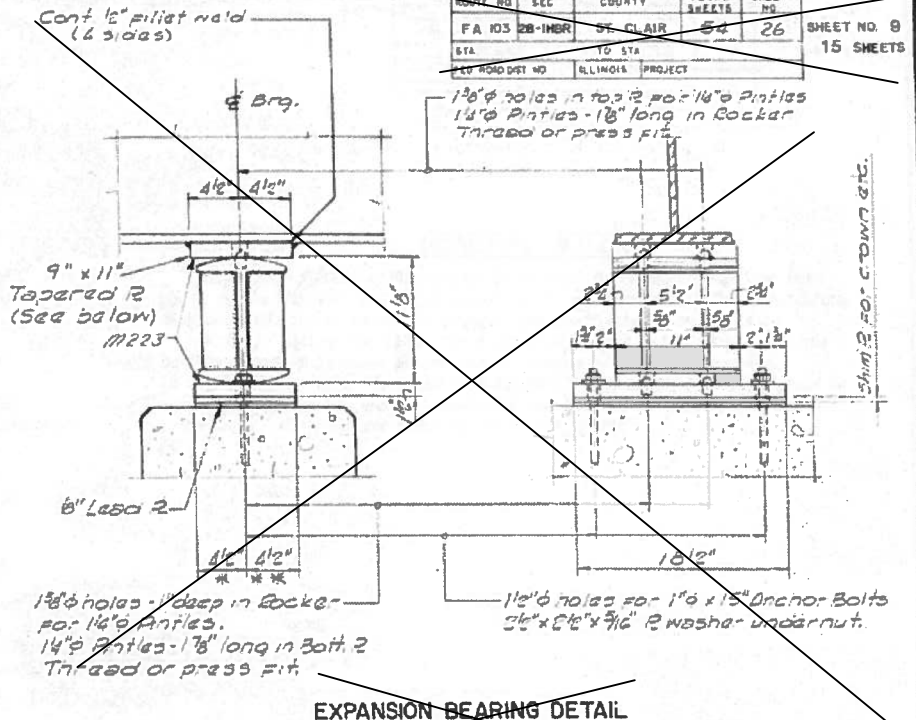
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 103	28-1HBR	ST. CLAIR	54	26
STA.	TO STA.		SHEET NO. 15 SHEETS	
234+00	ILLINOIS		PROJECT	



**EXPANSION BEARING DETAIL
NORTH & SOUTH ABUTMENTS**

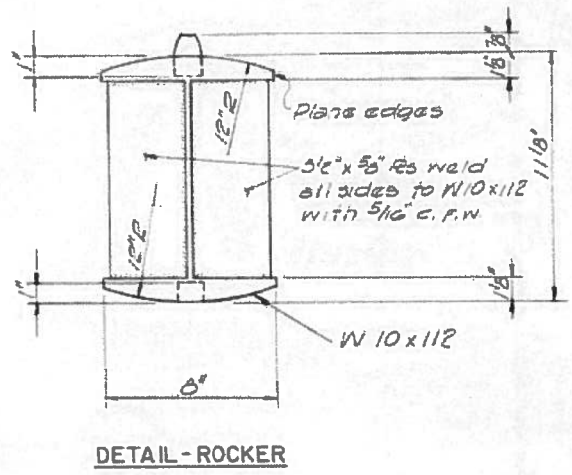


**FIXED BEARING DETAIL
PIER NO. 1**

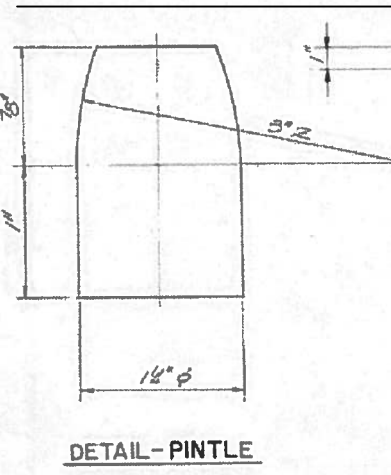


**EXPANSION BEARING DETAIL
PIER NO. 2**

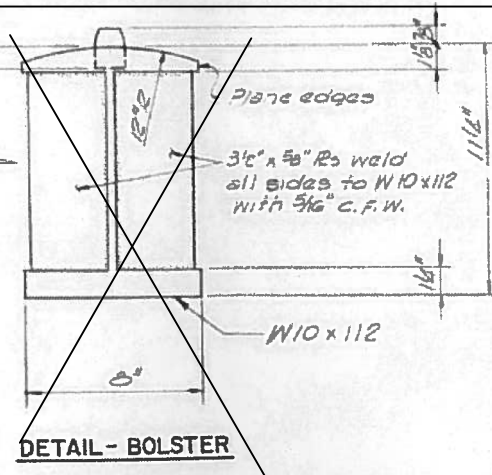
FOR INFORMATION ONLY



DETAIL - ROCKER



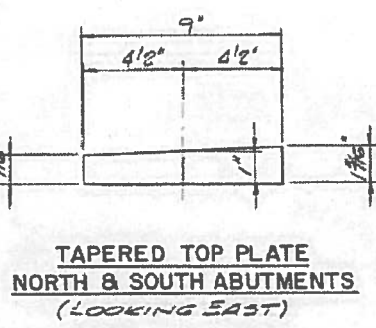
DETAIL - PINTLE



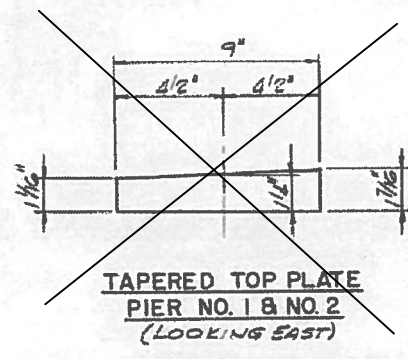
DETAIL - BOLSTER

**NOTES FOR SETTING OF ANCHOR BOLTS
AT EXPANSION BEARINGS**

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



**TAPERED TOP PLATE
NORTH & SOUTH ABUTMENTS
(LOOKING EAST)**



**TAPERED TOP PLATE
PIER NO. 1 & NO. 2
(LOOKING EAST)**

REQUIRED SHIM PLATES*				
LOC STA.	No. Abut.	Pier #1	Pier #2	So. Abut.
B	3/8"	3/8"	3/8"	3/8"
G	7/8"	7/8"	7/8"	7/8"

Plate dimensions same as bottom bearing plates.
All shim plates shall be AASHTO M183

Note: All Rockers & Bolsters shall be AASHTO M183
All bearing plates shall be AASHTO M223 Gr 50.

REVISIONS		
NO.	BY	DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ST. CLAIR COUNTY
FA. RTE. 103-IL. RTE. 15
SECTION 28-1HBR
STATION 234+07
BEARING ASSEMBLIES

SCALE NONE JOB NO. 8166-01
DATE 9/83
SHEET 26 OF 54 SHEETS

1/18/2017 1:41:16 PM

DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

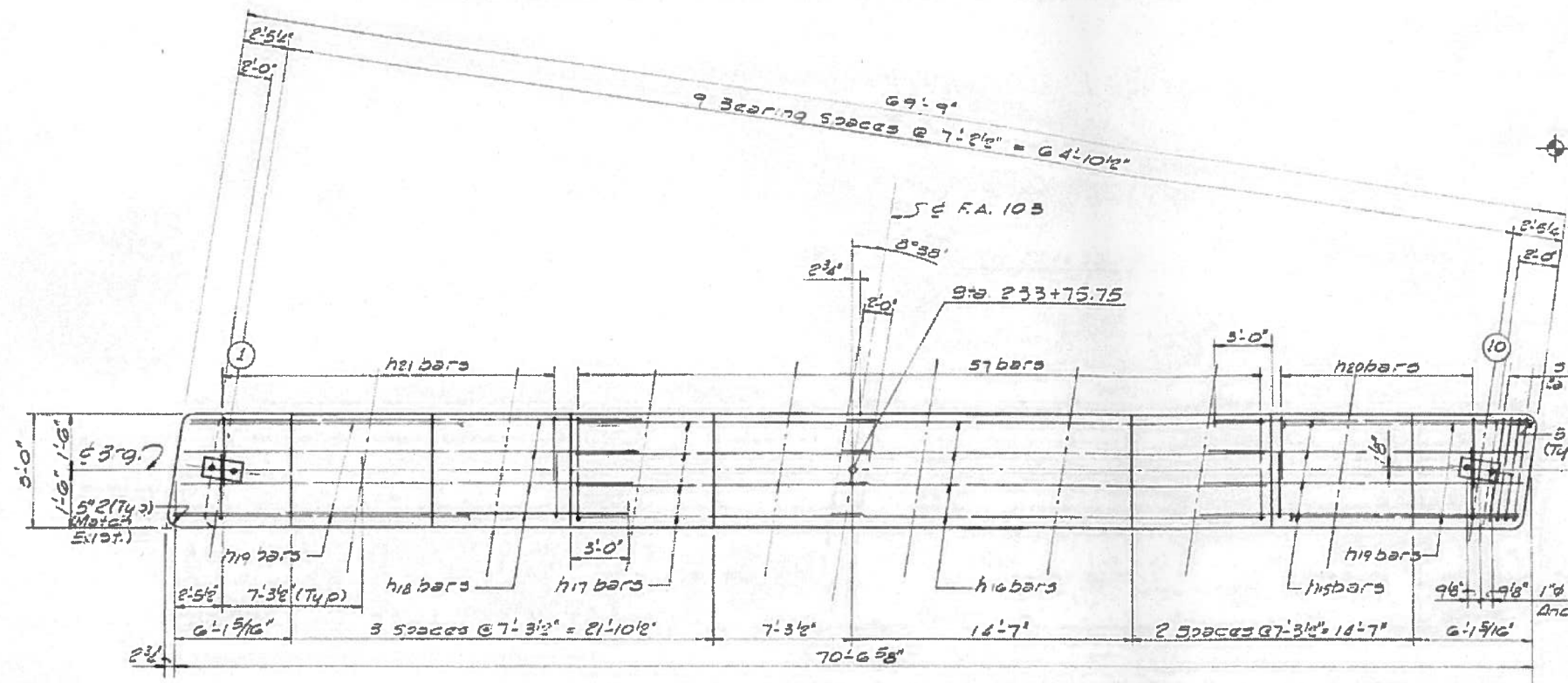
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY - EXISTING BEARING ASSEMBLIES
SN 082-0040

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	53
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				

SHEET NO. 12 OF 15 SHEETS

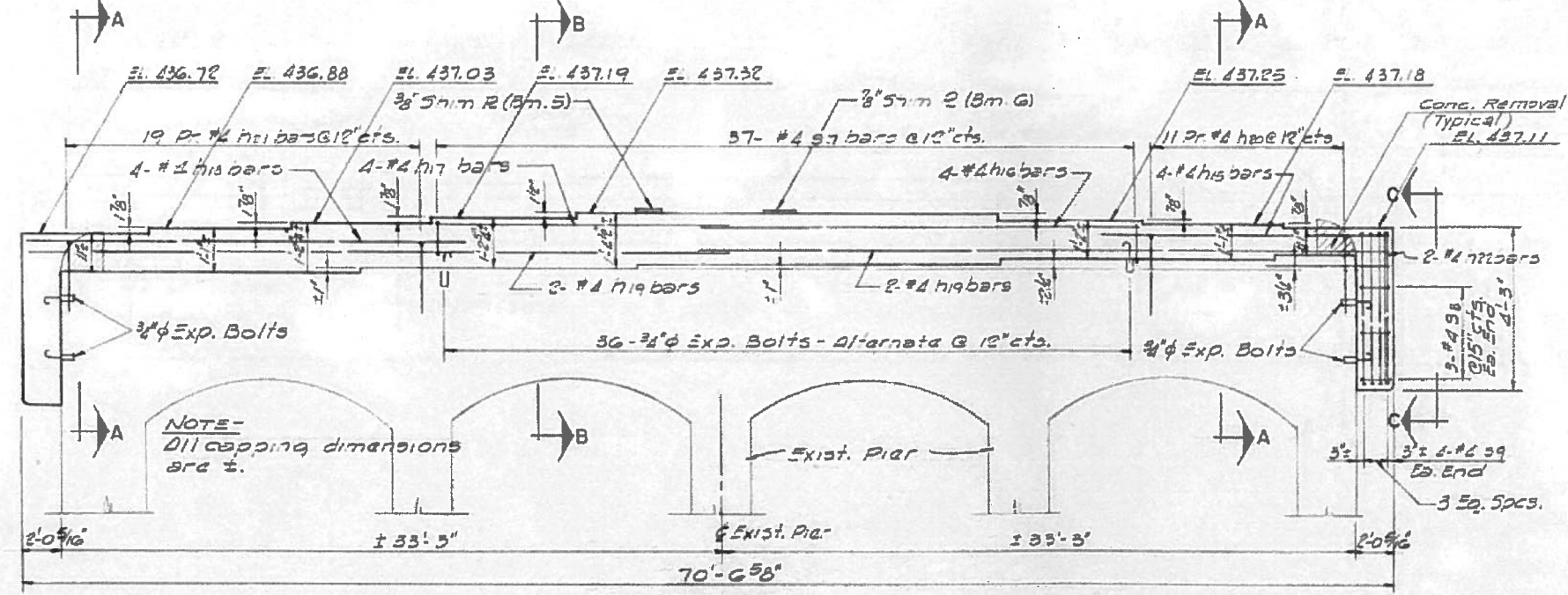
6/21/84 DS



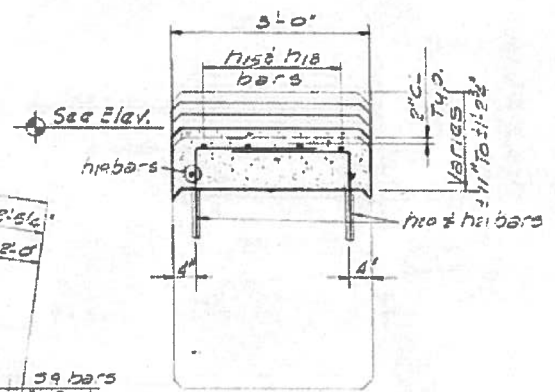
PLAN

Notes: Space reinforcement to miss anchor bolts.

FOR INFORMATION ONLY

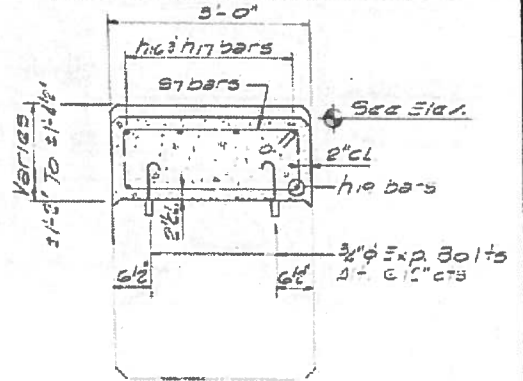


ELEVATION
Looking South

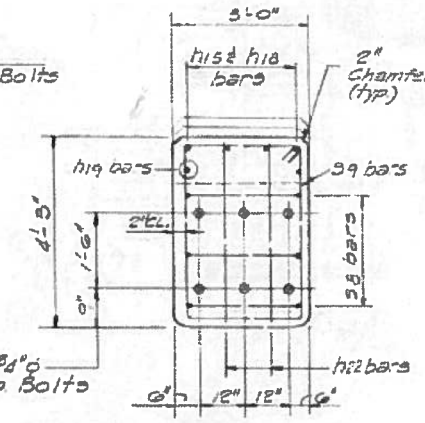


SECTION A-A

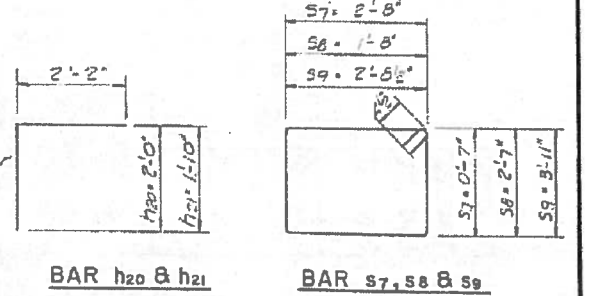
Epoxy grout h10 & h11 bars into 3/4" drilled holes. Cost incidental - See Specifications.



SECTION B-B



SECTION C-C



BILL OF MATERIALS					PIER NO. 1	
BAR	NO.	SIZE	LENGTH	SHAPE		
h15	4	#4	16'-3"			
h16	4	#4	22'-0"			
h17	4	#4	15'-5"			
h18	4	#4	23'-7"			
h19	4	#4	36'-2"			
h20	22	#4	4'-2"			
h21	38	#4	4'-0"			
h22	4	#4	4'-0"			
#7	57	#4	7'-5"			
#8	6	#4	9'-5"			
#9	8	#4	14'-0"			
CLASS X CONCRETE			CU. YD.	10.7		
REINFORCEMENT BARS			LB	770		
EXPANSION BOLTS 3/4"			EACH	48		

REVISIONS		
NO.	BY	DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ST. CLAIR COUNTY
FA RTE. 103 - IL RTE. 15
SECTION 28-1HBR
STATION 234+07
PIER NO. 1

DESIGNED BY: MNW
DRAWN BY: B
CHECKED BY: J.J.T.
APPROVED BY: MNW

SCALE NONE
JOB NO. 9166-01
DATE 9/83
SHEET 32 OF 54 SHEETS

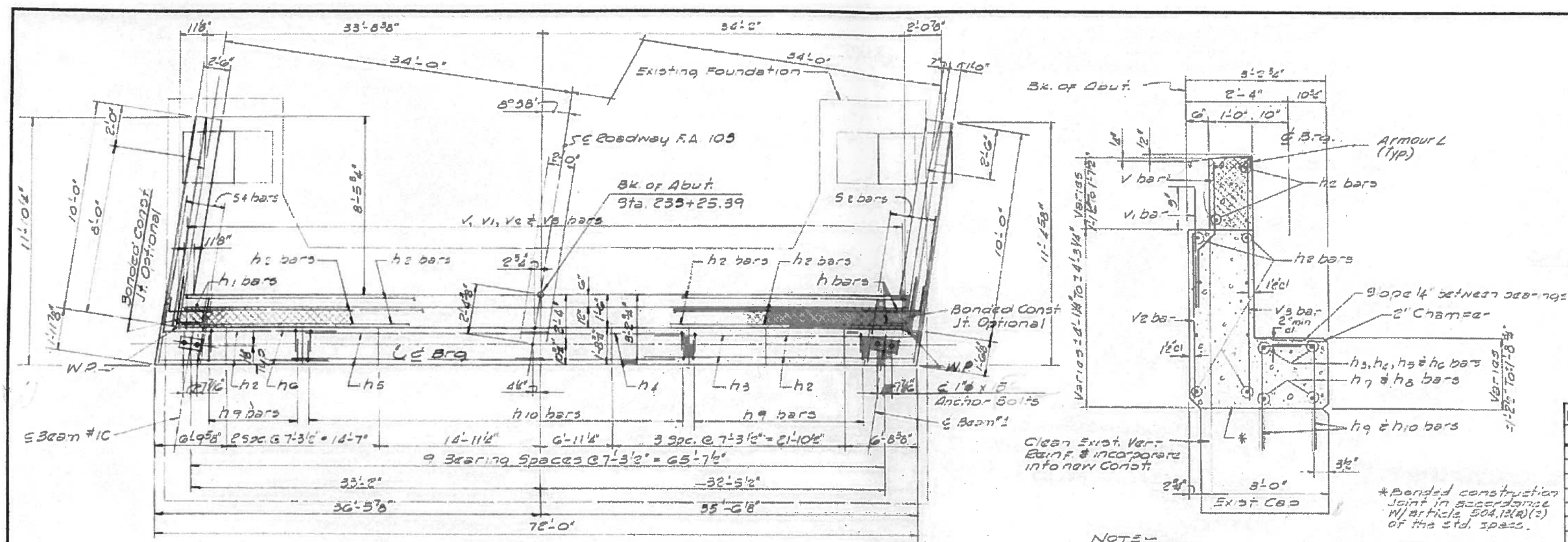
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DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY - EXISTING WEST PIER
SN 082-0040

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	54
CONTRACT NO. 76J01				



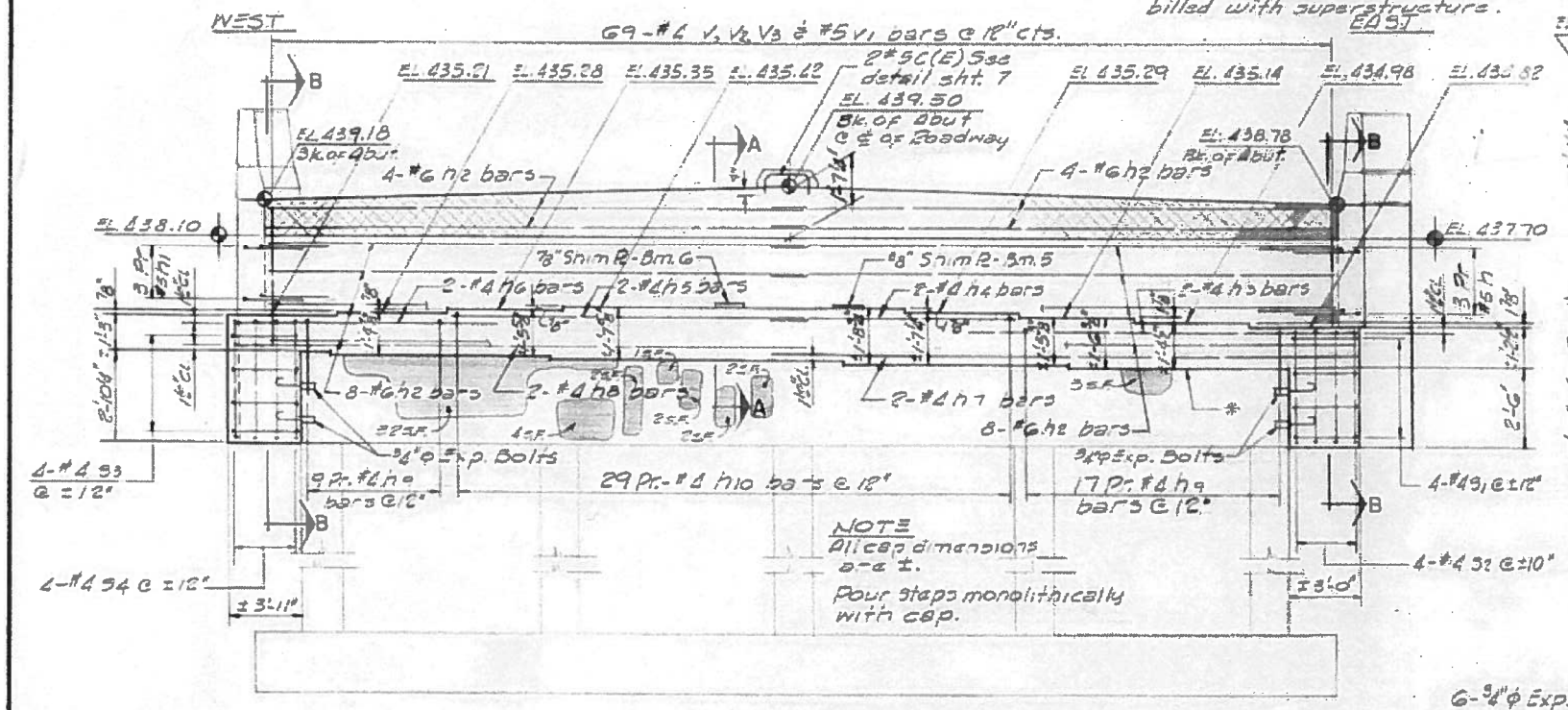
Note: Space reinforcement to miss anchor bolts

FOR INFORMATION ONLY

NOTE: Hatched area to be poured after superstructure false-work has been removed. Conc. filled with superstructure.

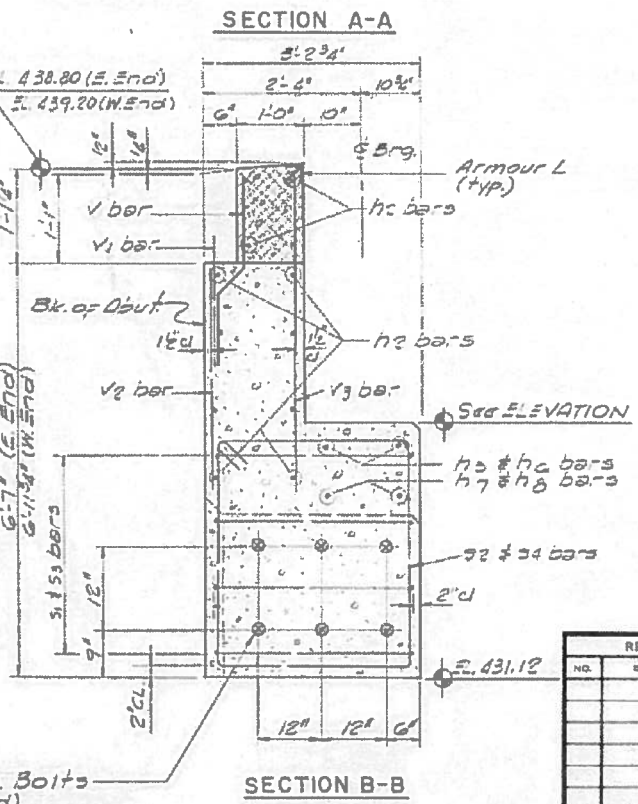
NOTE: Epoxy grout in 9" & 10" bars into 3/4" drilled holes. Cost incidental. See Special Provisions.

BILL OF MATERIALS		NORTH & SOUTH ABUTS.		
BAR	NO.	SIZE	LENGTH	SHAPE
h	15	#5	3'-6"	┌
h1	12	#5	3'-6"	└
h2	48	#6	35'-1"	—
h3	4	#6	28'-0"	—
h4	4	#4	15'-5"	—
h5	2	#8	25'-0"	—
h6	4	#8	16'-6"	—
h7	2	#8	36'-10"	—
h8	4	#8	36'-0"	—
h9	102	#8	3'-0"	┌
h10	116	#8	3'-9"	└
g1	8	#4	11'-11"	┌
g2	8	#4	13'-5"	└
g3	8	#4	13'-9"	┌
g4	8	#4	14'-1"	└
v	138	#3	3'-8"	—
v1	138	#5	2'-6"	—
v2	158	#3	4'-11"	—
v3	158	#4	6'-0"	—
c(e)	4	#5	4'-9"	—
CLASS X CONCRETE		CLASS	52.4	
REINFORCEMENT BARS		CLASS	5510	
EXPANSION BOLTS 3/4" &		EACH	24	
REINF. BARS (EPOXY COATED) FOUND			50	
REPAIR CONCRETE STRUCTURE		30 FT.	55	



NOTE: All cap dimensions are ±. Pour steps monolithically with cap.

* Bonded construction joint in accordance w/ article 504.13(a)(2) of the std. specs.



Work this sheet with sheets 10, 12 & 13. See sheet 12 for bar bends.

REVISIONS		
NO.	BY	DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ST. CLAIR COUNTY
FA RTE. 103-IL RTE. 15
SECTION 28-1HBR
STATION 234+07
NORTH ABUTMENT

DESIGNED BY: MWW
DRAWN BY: J.J.T.
CHECKED BY: J.J.T.
APPROVED BY: MWW

SCALE NONE
JOB NO. 8166-01
DATE 9/12/11
SHEET 29 OF 54 SHEETS

Rev 11-28-93 L.W.

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DESIGNED - AYV	EXAMINED	DATE - APRIL 28, 2017
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISOR
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

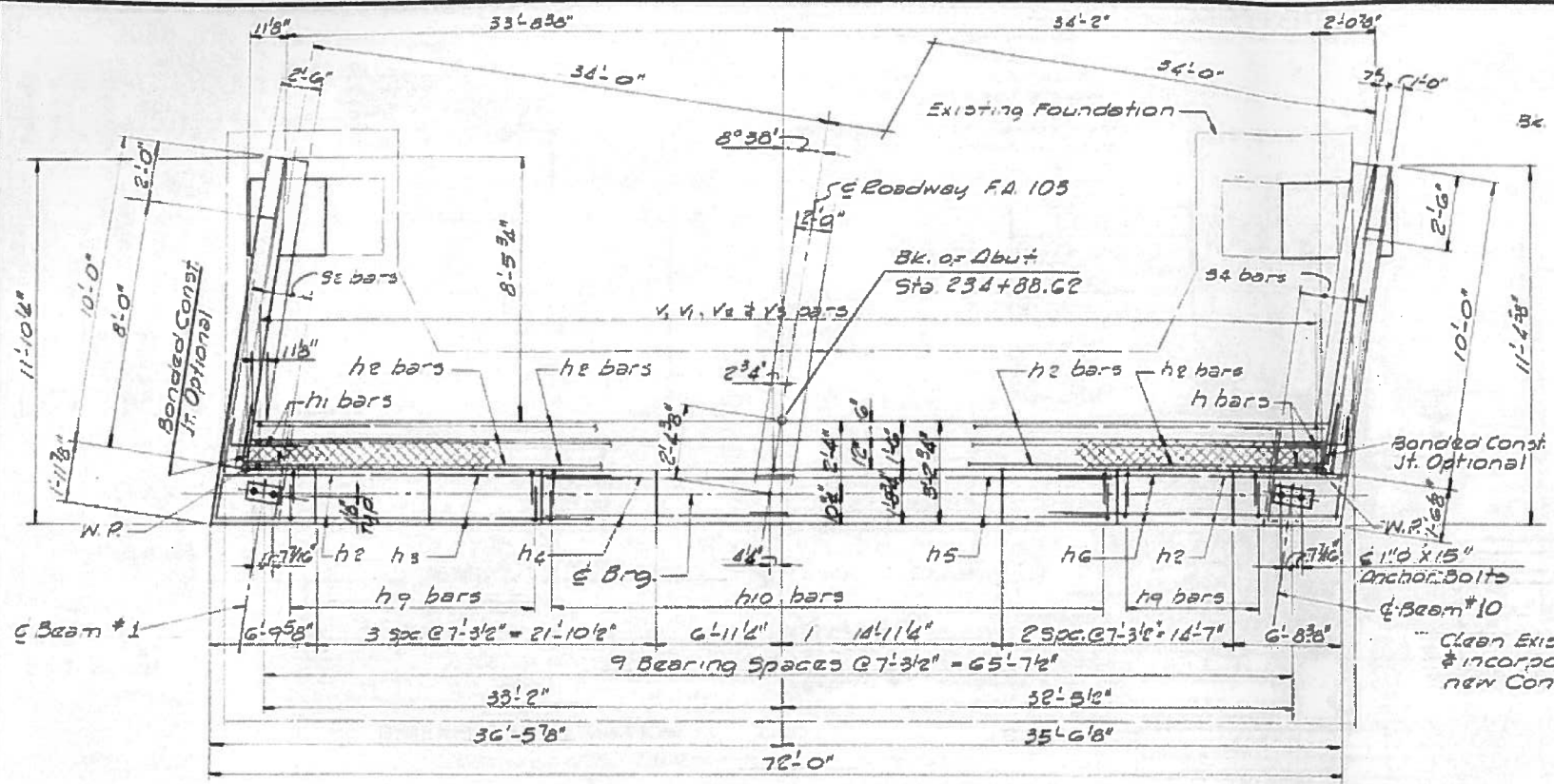
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY - EXISTING N. ABUTMENT
SN 082-0040

SHEET NO. 14 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	55
CONTRACT NO. 76J01			ILLINOIS FED. AID PROJECT	

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 103	28-1HBR	ST. CLAIR	54	30
STA.	TO STA.	ILLINOIS PROJECT	15 SHEETS	
FED. ROAD DIST. NO.	ILLINOIS PROJECT			

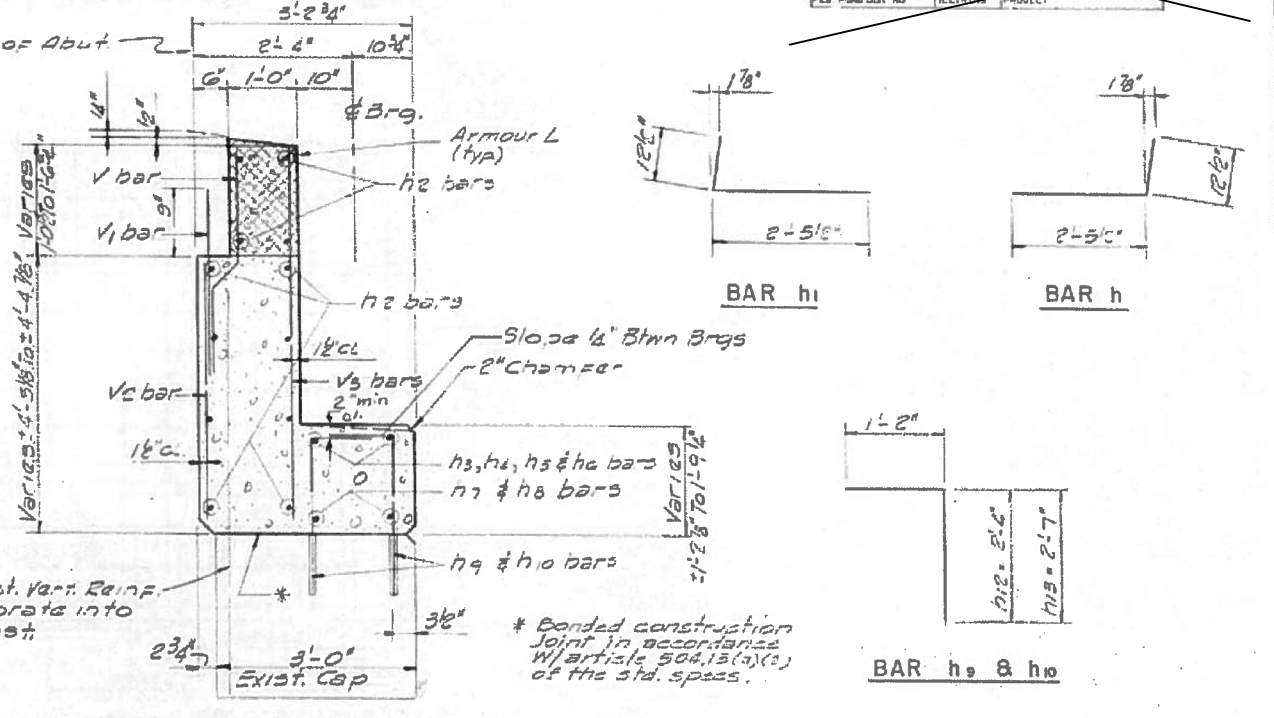


PLAN

Note: Space reinforcement to miss anchor bolts.

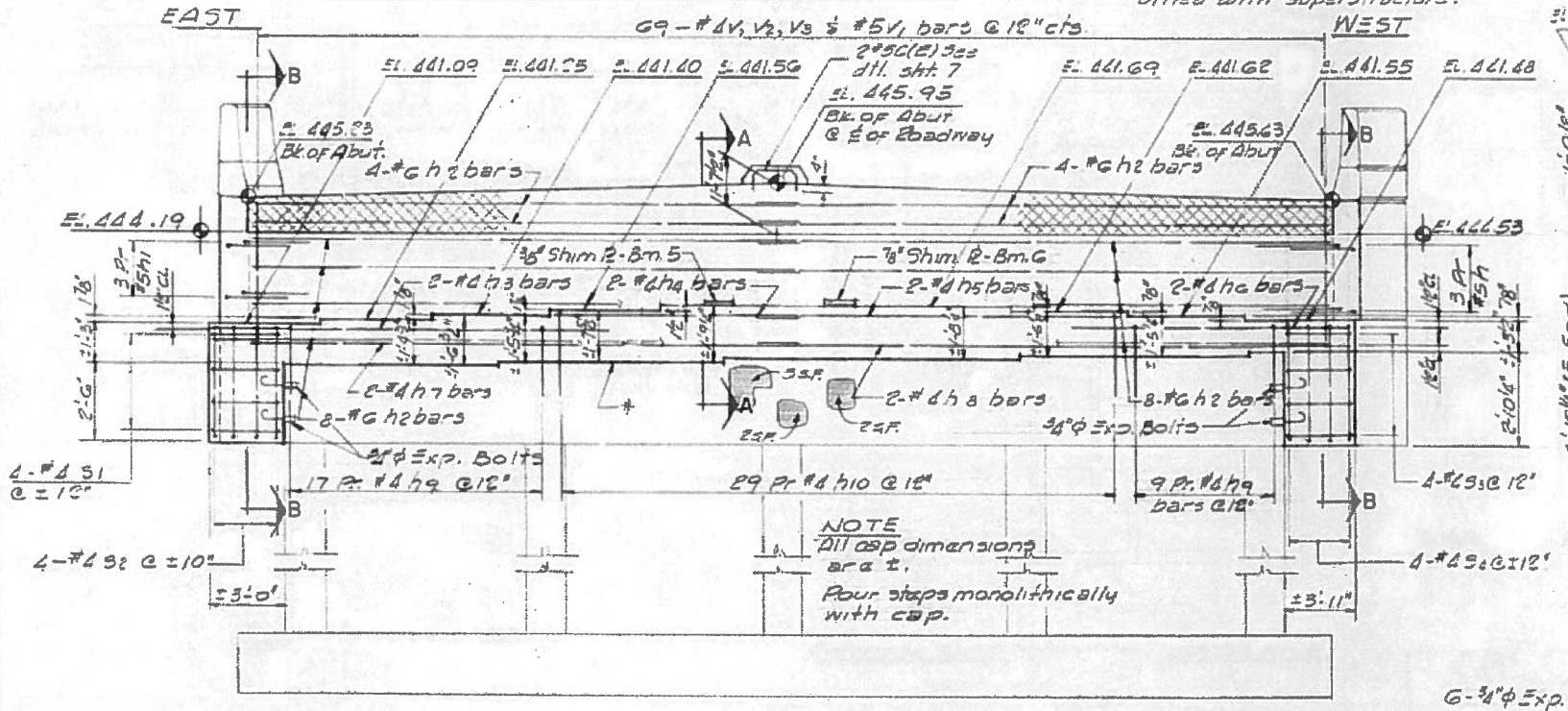
FOR INFORMATION ONLY

NOTE - Hatched area to be poured after superstructure falsework has been removed. Conc. bled with superstructure.



SECTION A-A

SECTION B-B

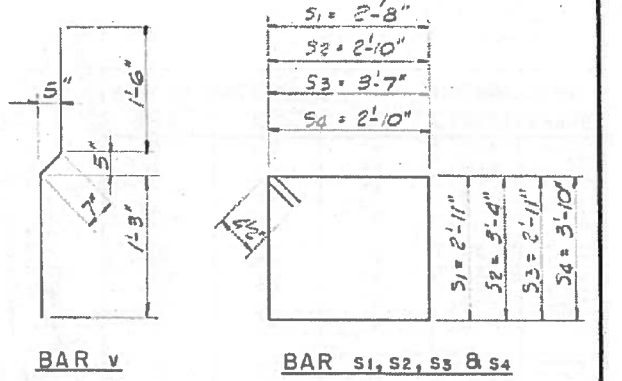


ELEVATION (LOOKING SOUTH)

Indicates approx. areas for REPAIR OF CONCRETE STRUCTURES. See special provisions.

* Bonded construction joint in accordance w/ article 304.13(b)(2) of the std. specs.

NOTE - Epoxy grout h9 & h10 bars into 3/4" drilled holes. Cost incidental. See Special Provisions.



REVISIONS		
NO.	BY	DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ST. CLAIR COUNTY
FA RTE. 103-IL RTE. 15
SECTION 28-1HBR
STATION 234+07
SOUTH ABUTMENT

SCALE NONE JOB NO. 8166-01
DATE 9/25 SHEET 30 OF 54 SHEETS

DESIGNED BY M.W.W.
DRAWN BY J.J.T.
CHECKED BY J.J.T.
APPROVED BY M.W.W.

1/18/2017 1:41:55 PM

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CHECKED - ATH	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISED
CHECKED - ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

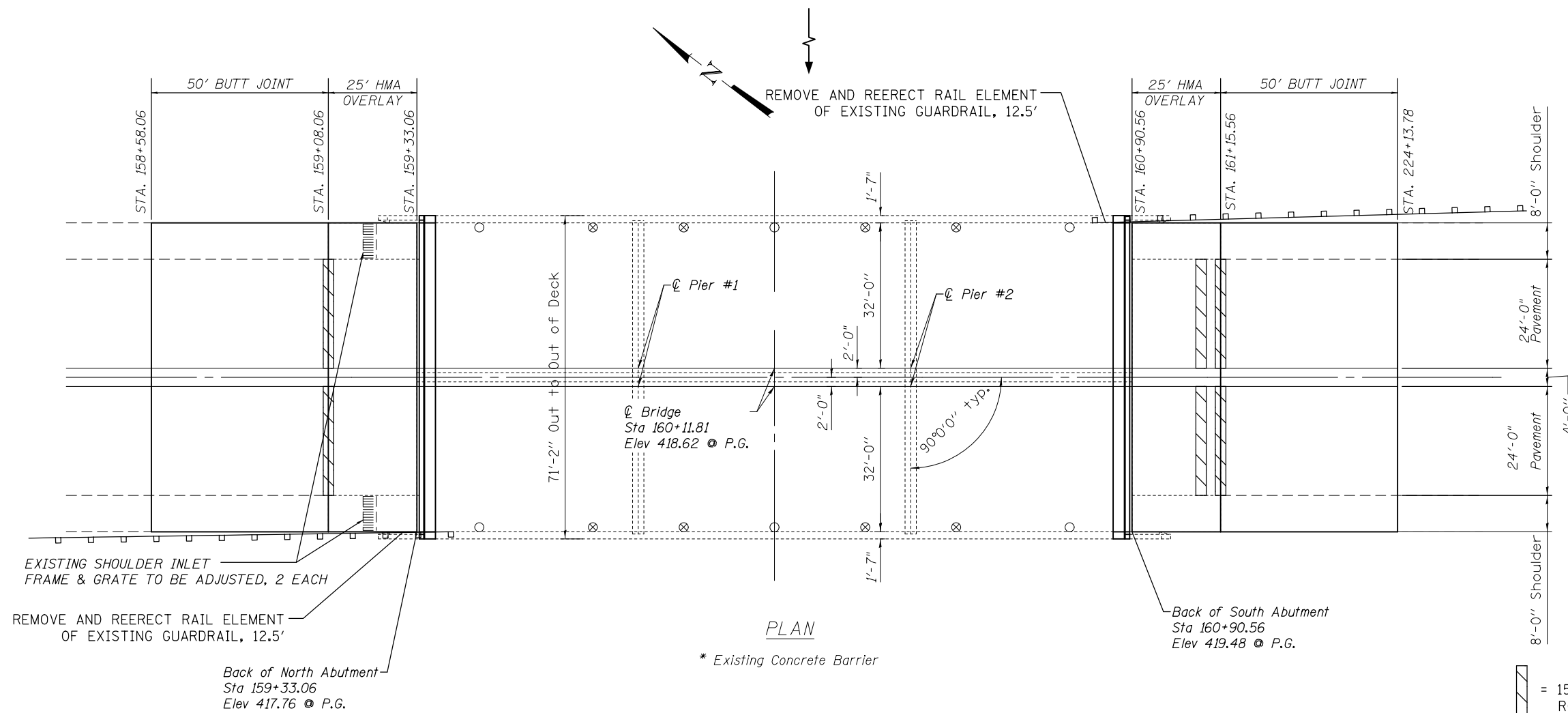
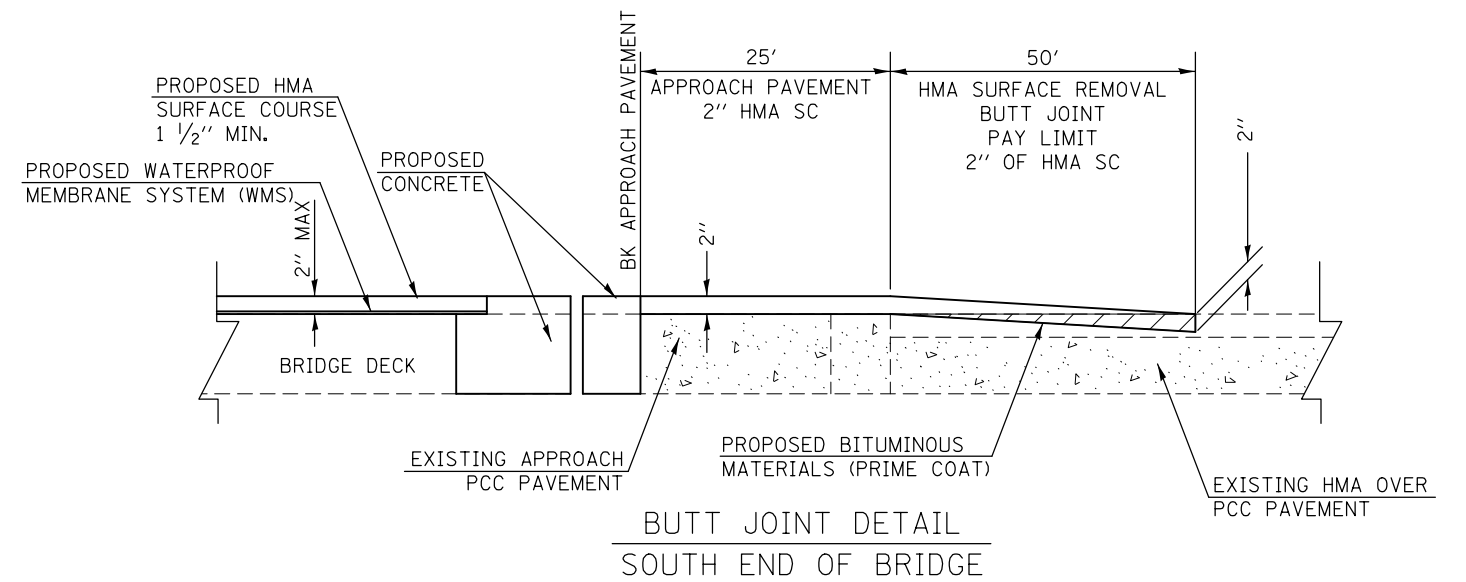
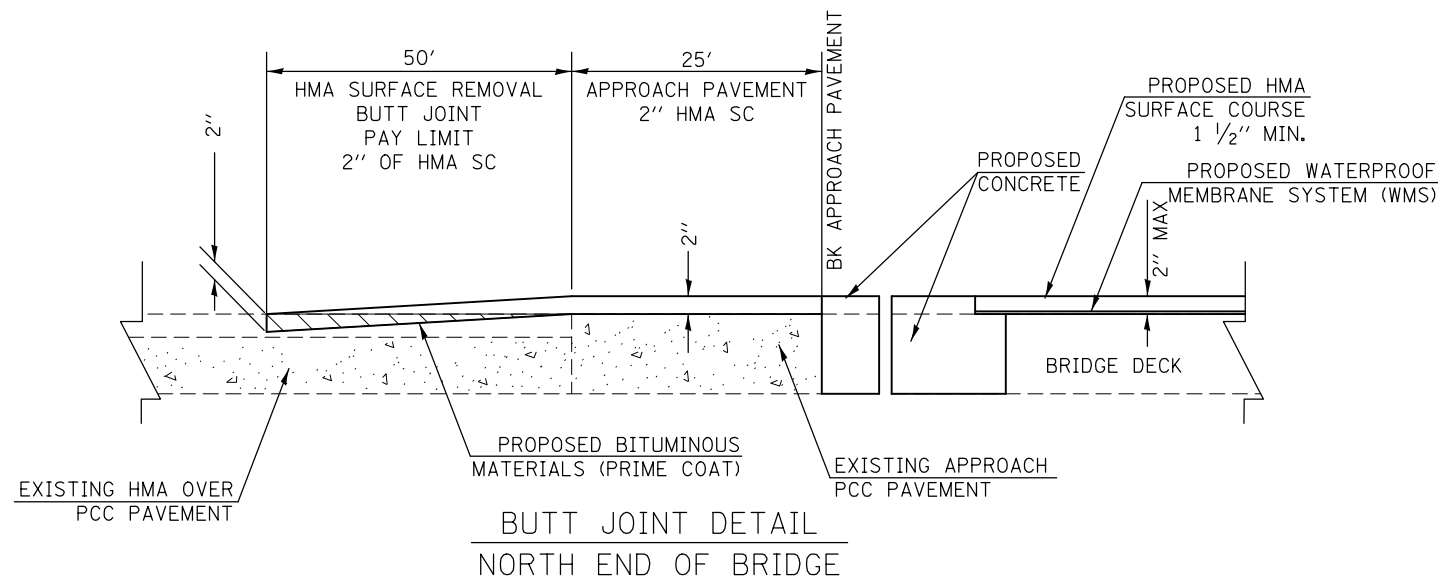
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY - S. ABUTMENT
SN 082-0040

SHEET NO. 15 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1HBR-1	ST. CLAIR	62	56
				CONTRACT NO. 76J01
ILLINOIS FED. AID PROJECT				

Rev. 11-28-83 L.W.

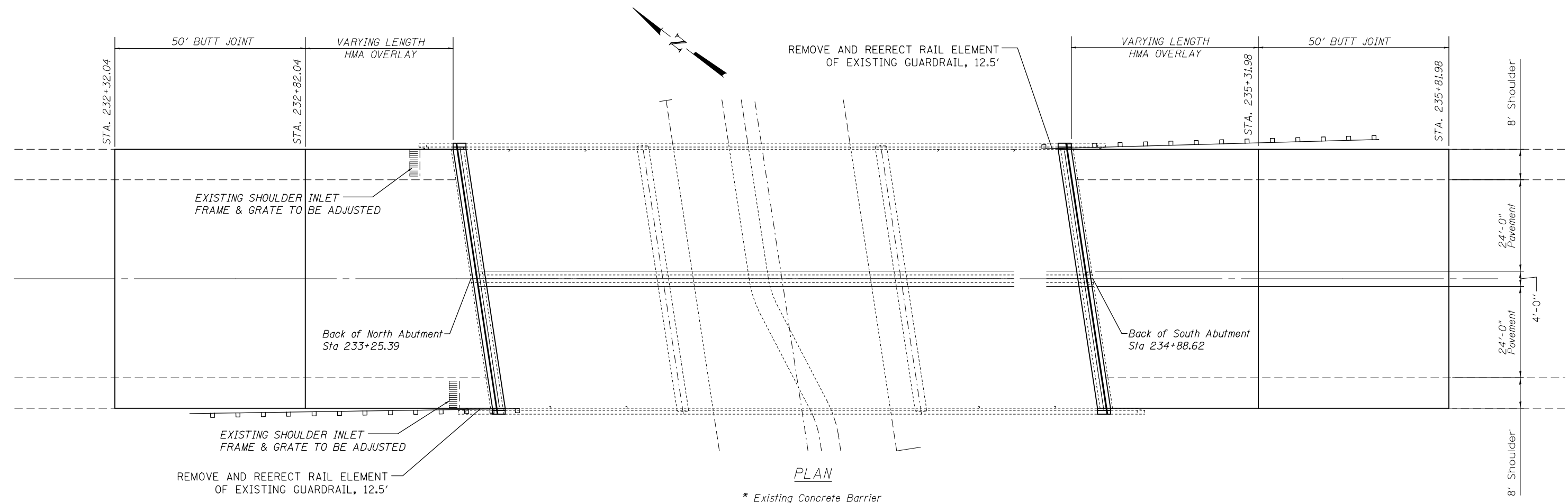
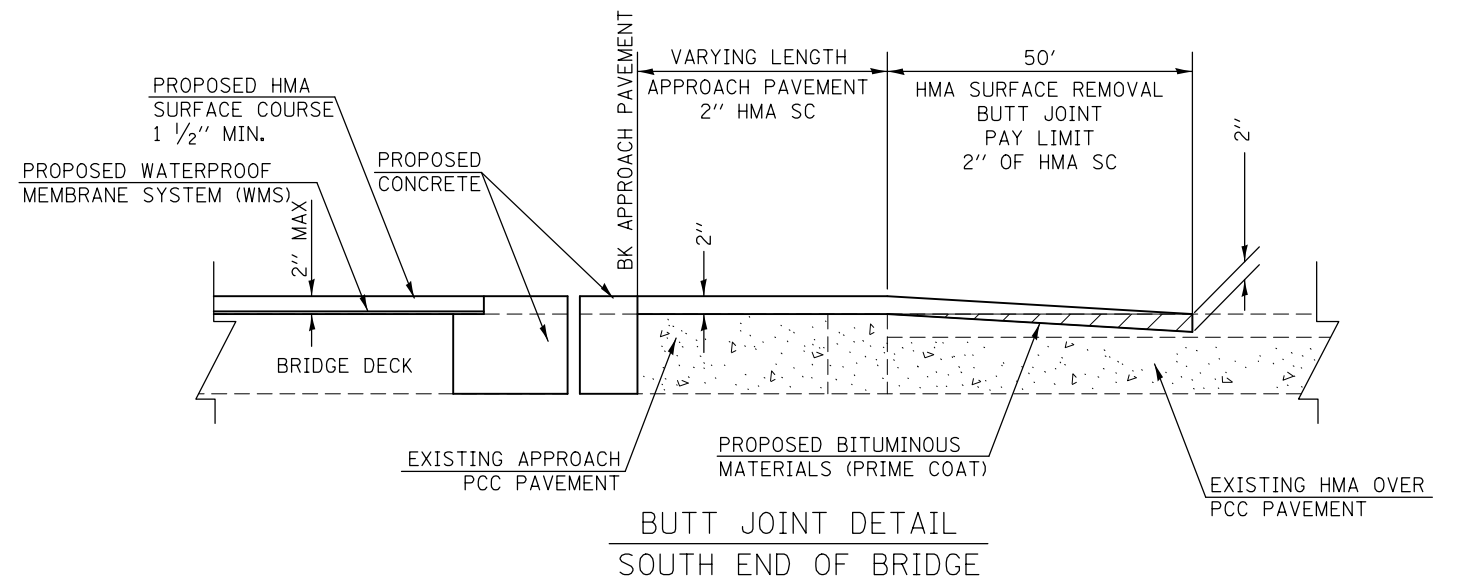
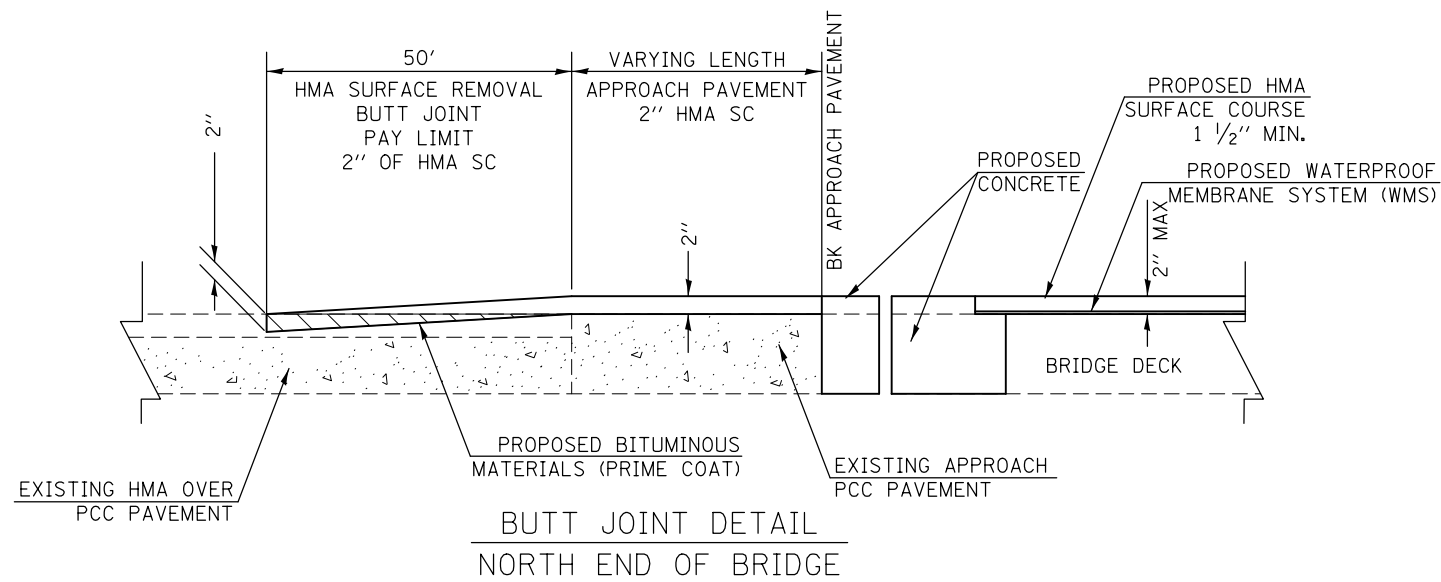


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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS	
(S.N. 082-0039)	
SCALE:	ST. TO STA.
SHEET 1	OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-1HBR-1	ST. CLAIR	62	57
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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	PLOT DATE = 1/19/2017	DATE -	REVISED -

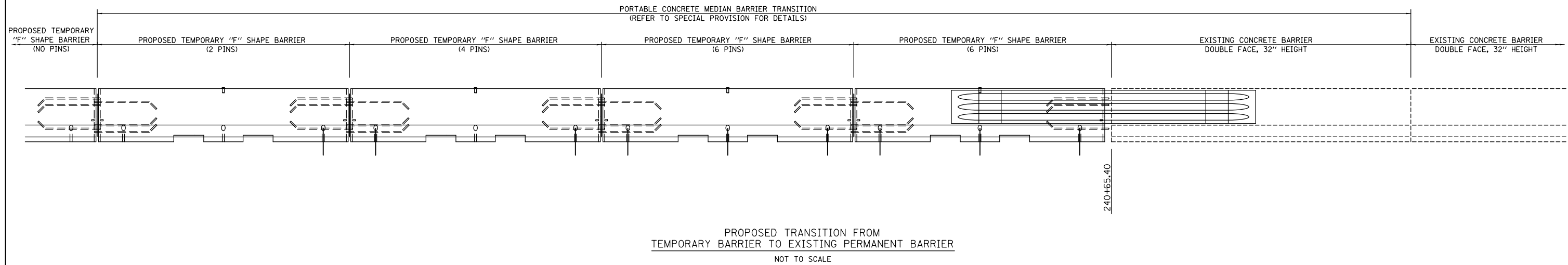
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS	
(S.N. 082-0040)	
SCALE:	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-IHBR-1	ST. CLAIR	62	58
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				

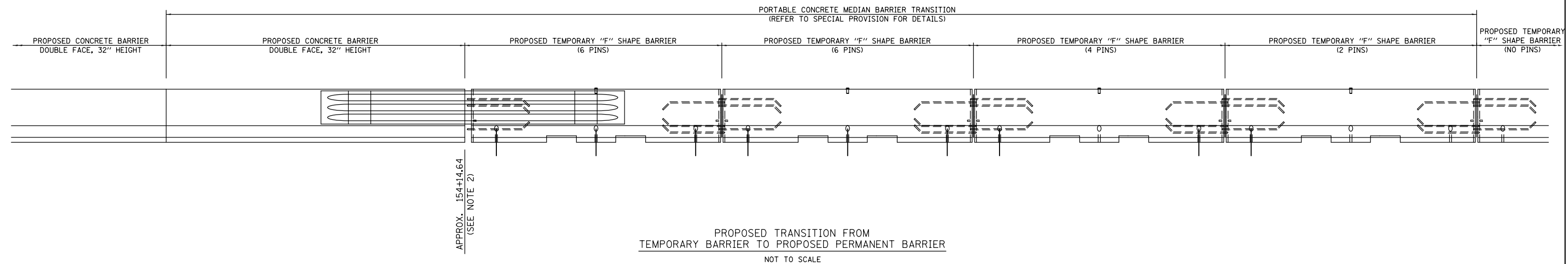
NOTES

1. PROPOSED TRANSITION FROM TEMPORARY BARRIER TO EXISTING PERMANENT BARRIER TO BE INSTALLED AND USED IN CONJUNCTION WITH THE STAGE CONSTRUCTION AND TRAFFIC CONTROL.
2. TRANSITION WILL REMAIN IN PLACE AS PART OF THE FINAL BARRIER CONSTRUCTION.

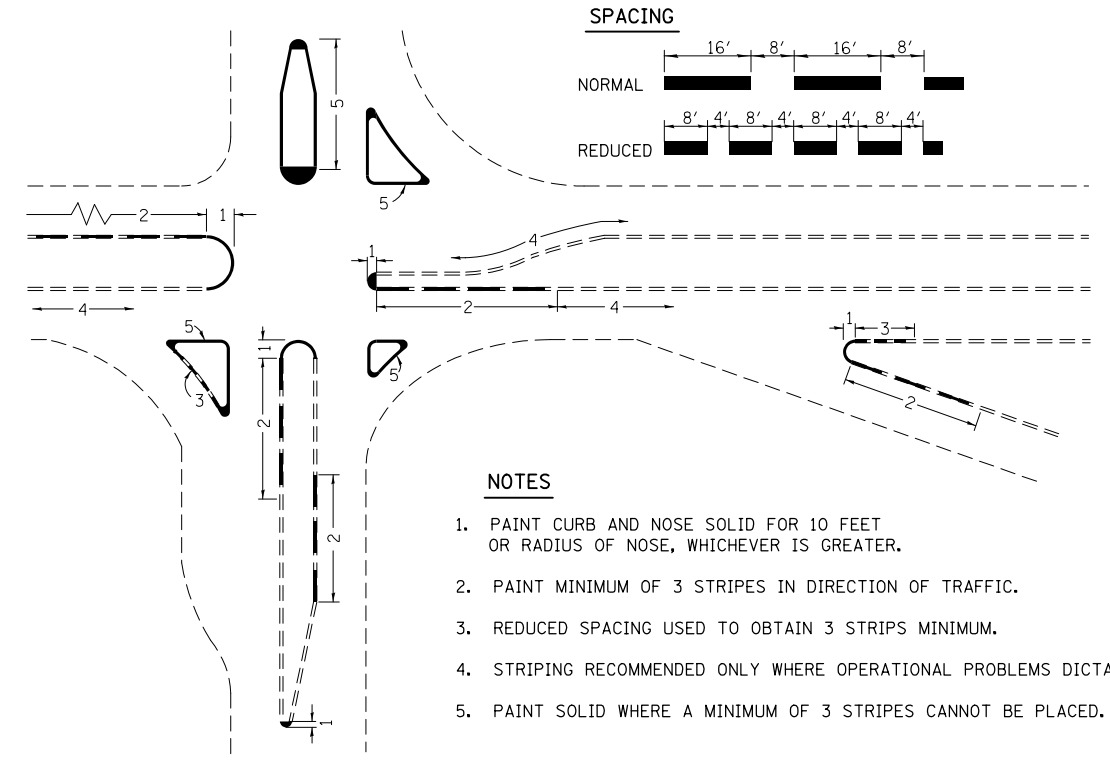


NOTES

1. PROPOSED TRANSITION FROM TEMPORARY BARRIER TO PROPOSED PERMANENT BARRIER TO BE INSTALLED AS PART OF THE FINAL BARRIER CONSTRUCTION FOLLOWING STAGE 3 CONSTRUCTION AND TRAFFIC CONTROL.
2. START LOCATION OF PROPOSED CONCRETE BARRIER IS APPROXIMATE AND SHOULD BE FIELD VERIFIED AFTER PROPOSED TEMPORARY "F" SHAPE BARRIER IS PLACED.



FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRANSITION SECTIONS DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 8\Projects\0876\DRAWING\GAD\Drawings\0876\01-shr-pland	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -					103	28-1BR-1, 28-IHBR-1	ST. CLAIR	62	59
PLOT DATE = 1/19/2017	DATE -	REVISED -	REVISED -		CONTRACT NO. 76J01			ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.		



- NOTES**
1. PAINT CURB AND NOSE SOLID FOR 10 FEET OR RADIUS OF NOSE, WHICHEVER IS GREATER.
 2. PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
 3. REDUCED SPACING USED TO OBTAIN 3 STRIPS MINIMUM.
 4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
 5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

CURB MARKING DETAIL
NOT TO SCALE

FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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	PLOT DATE = 1/19/2017		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

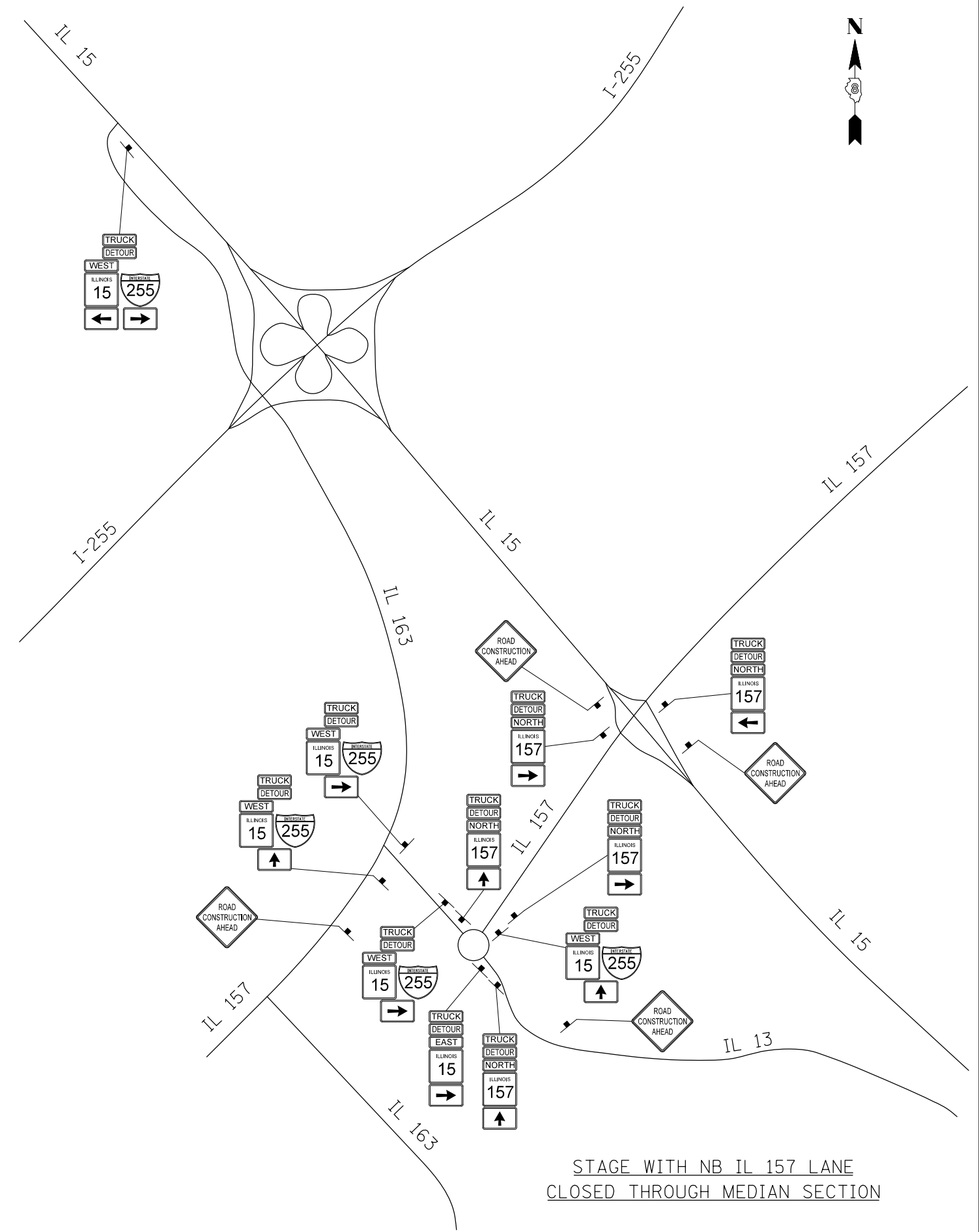
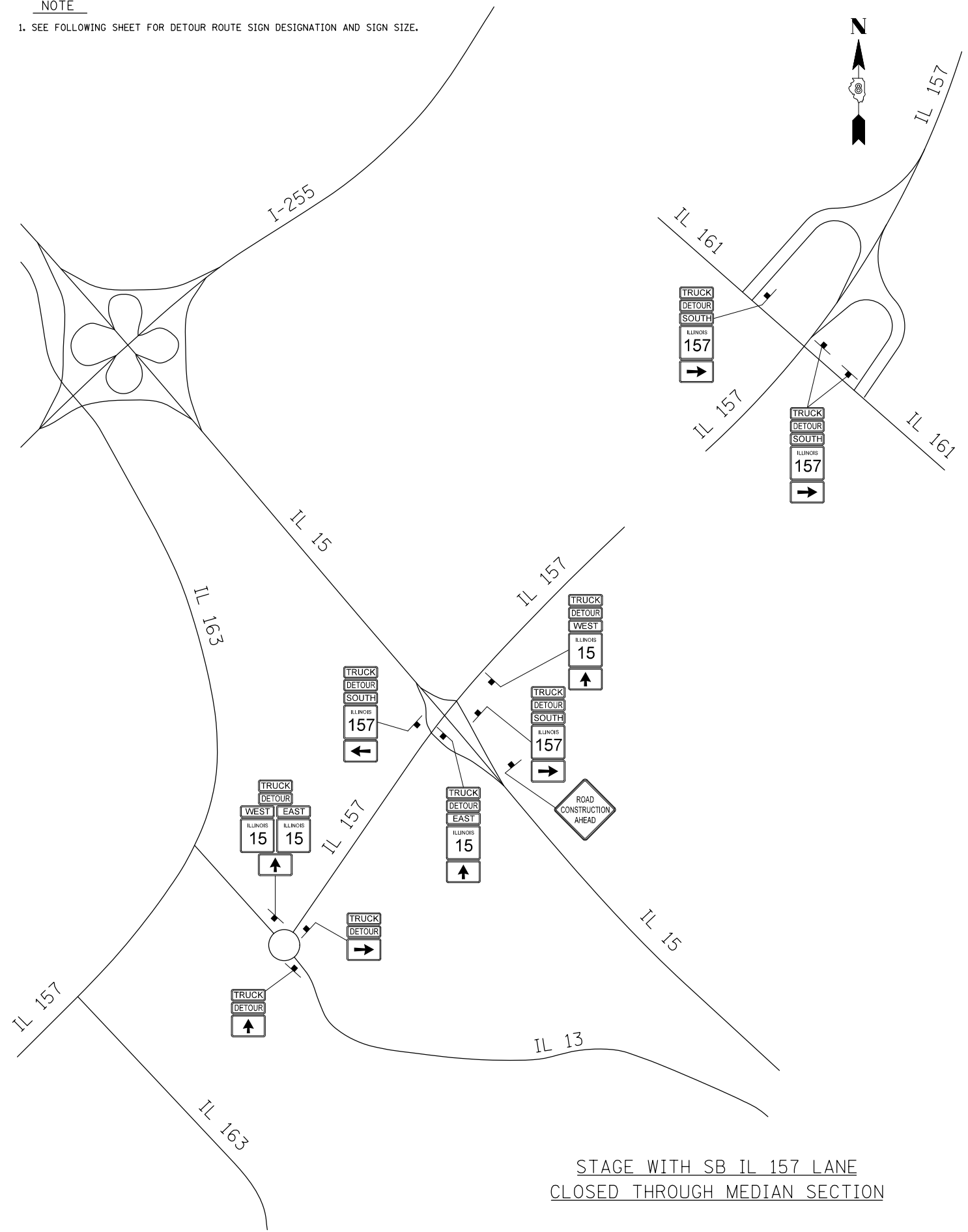
CURB MARKING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-IHBR-1	ST. CLAIR	62	60
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				

NOTE

1. SEE FOLLOWING SHEET FOR DETOUR ROUTE SIGN DESIGNATION AND SIGN SIZE.



FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUCK DETOUR ROUTE
(USED DURING IL 157 MEDIAN IMPROVEMENTS)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-1HBR-1	ST. CLAIR	62	61
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				

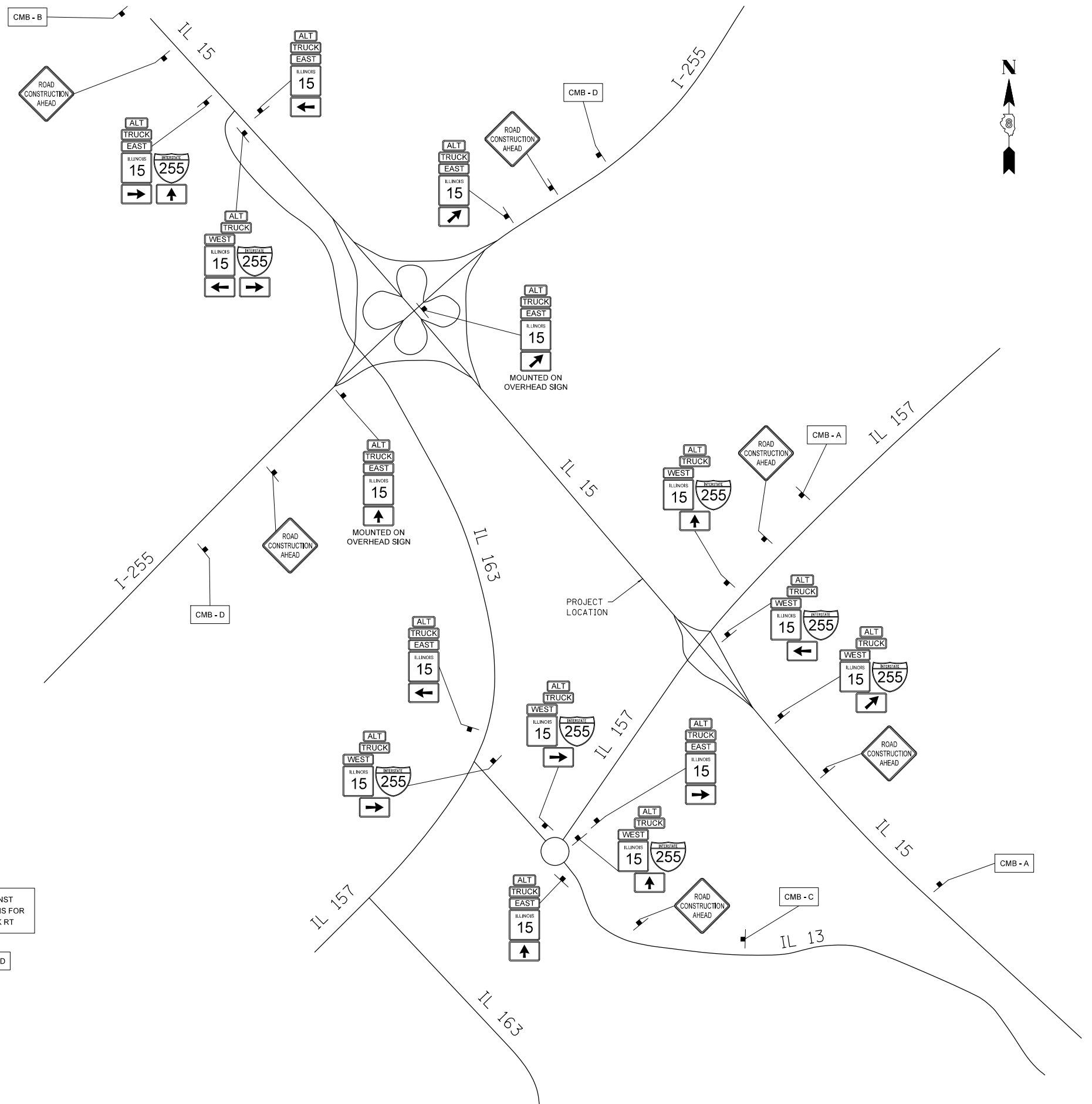
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

DETOUR ROUTES
SIGN LEGEND

SIGN	SIGN DESIGNATION	SIGN SIZE
	M4-1a	24 X 12
	M4-4	24 X 12
	M3-1	24 X 12
	M3-2	24 X 12
	M3-3	24 X 12
	M3-4	24 X 12
	M4-8	24 X 12
	M6-1(R)	21 X 15
	M6-1(L)	21 X 15
	M6-3	21 X 15
	M6-2	21 X 15
	M1-I100	24 X 24
	M1-I100	30 X 24
	M1-1	30 X 24
	W20-I103	48 X 48

CHANGEABLE MESSAGE BOARDS
(USED DURING STAGES 1, 2, & 3)

CMB - A	CMB - B	CMB - C	CMB - D



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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALTERNATE TRUCK DETOUR ROUTE
(USED DURING CONSTRUCTION STAGES 1, 2, & 3)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	28-1BR-1, 28-IHBR-1	ST. CLAIR	62	62
CONTRACT NO. 76J01				
ILLINOIS FED. AID PROJECT				