

SHEET NO. DESCRIPTION

- ROADWAY PLANS**
- COVER SHEET
 - GENERAL NOTES AND STANDARDS
 - SUMMARY OF QUANTITIES
 - TYPICAL SECTIONS
 - SCHEDULE OF QUANTITIES
 - IL RTE 141 PLAN AND PROFILE
 - DETOUR PLAN
 - ROAD CLOSURE TRAFFIC CONTROL DETAIL
 - EROSION AND SEDIMENT CONTROL PLAN
 - BUTT JOINT DETAIL
 - STEP CONSTRUCTION DETAIL
 - SEEDING AND MULCHING DETAIL
 - TEMPORARY DITCH CHECK DETAIL

- STRUCTURE PLANS**
SN 097-0027
- GENERAL PLAN & ELEVATION
 - GENERAL DATA
 - TOP OF SLAB ELEVATIONS
 - TOP OF WEST APPROACH SLAB ELEVATIONS
 - TOP OF EAST APPROACH SLAB ELEVATIONS
 - SUPERSTRUCTURE
 - SUPERSTRUCTURE DETAILS
 - APPROACH SLAB DETAILS
 - PREFORMED JOINT STRIP SEAL
 - STEEL FRAMING PLAN
 - STEEL DETAILS
 - BEARING DETAILS
 - ABUTMENT REMOVAL AND REPAIRS
 - ABUTMENT DETAILS
 - PIERS 1 & 2
 - BAR SPLICER ASSEMBLY DETAILS
 - BORING LOGS

- EXISTING STRUCTURE PLANS**
SN 097-0027
- EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY

- CROSS SECTIONS**
- IL RTE 141 CROSS SECTIONS

**DESIGN DESIGNATION:
N.A.**

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

DISTRICT 9 NO. (618)549-2171
PROJECT ENGINEER: DAVID PICHE
PROJECT MANAGER

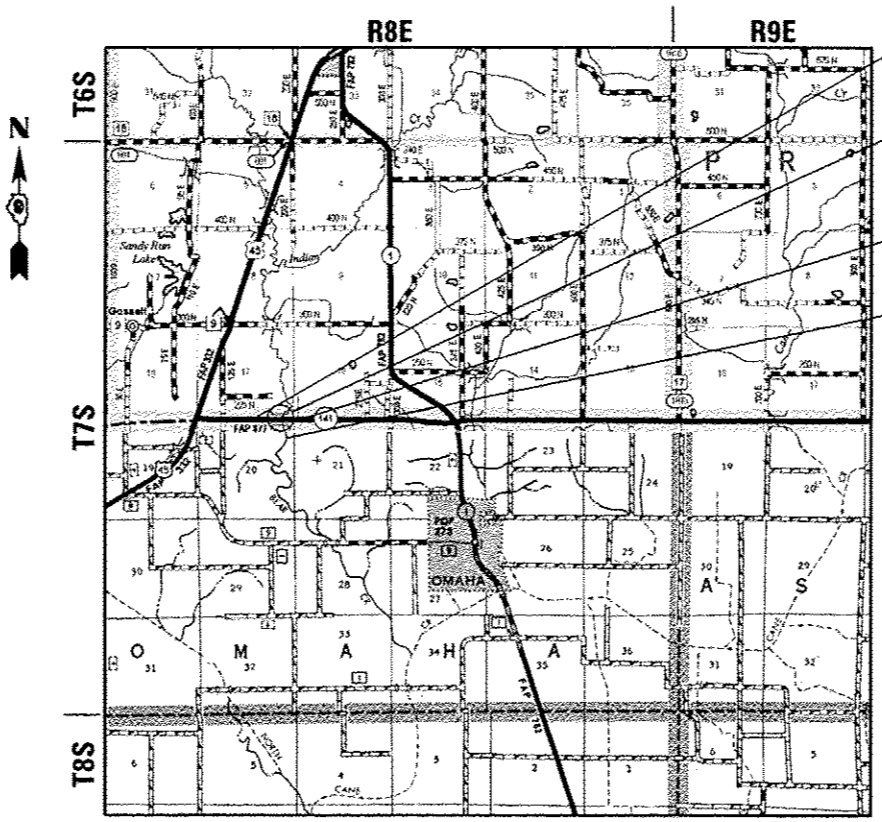
CONTRACT NO. 78231

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

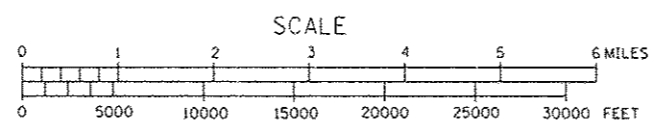
FAP ROUTE 877 (IL 141)
SECTION 100B-1
PROJECT ACF-0877 (014)
WHITE COUNTY
C-99-010-11

**BRIDGE DECK REPLACEMENT
OVER BEAR CREEK**



LOCATION MAP

3RD P.M.



GROSS LENGTH = 544.00 FT. = 0.103 MI
NET LENGTH = 544.00 FT. = 0.103 MI

- IMPROVEMENTS BEGIN STA 45+98
- EXISTING SN 097-0027 STATION 48+70.00 PROPOSED SN 097-0027 THREE SPAN BRIDGE
- IMPROVEMENTS END STA 51+42
- BEAR CREEK

MICHAEL C. VAIL
062-049256
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
Michael C. Vail
SIGNATURE
7/11/2014
DATE

LIC. EXP. DATE : 11-30-15
QUIGG ENGINEERING INC.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	1
		ILLINOIS	CONTRACT NO. 78231	



FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (NON-URBAN)
DESIGN SPEED: 55 mph
POSTED SPEED: 55 mph
ADT: 1480 (2011)
PV: 89.7%
TRUCKS: 10.3%
TOWNSHIP: INDIAN CREEK

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED July 21 20 14
Jeffrey L. Keirn
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 17 20 14
John D. Baranzelli PE
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 17 20 14
Omer Osman PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-10	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTIONS FOR PIPE CULVERTS
609006-05	BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' MIN. FROM EOP, 45MPH+
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

- THE ENGINEER SHALL DETERMINE CURING TIME FOR THE VARIOUS HMA LIFTS.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW HMA SHOULDERS. COST TO BE INCLUDED IN HMA SHOULDERS, 8".
- AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- THE THICKNESS OF HMA MIXTURES 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 HMA MIXTURE IS PLACED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT	2.016 TONS/CU YD (112 LBS/SQ YD/IN)
ALL AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.05 LB/SQ FT
INTERMEDIATE LIFTS (FOG COAT)	0.025 LB/SQ FT
ON AGGREGATE SURFACE	0.25 LB/SQ FT
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ YD (3 LB/SQ YD)
RIPRAP	1.50 TONS/SQ YD
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2A ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- ALL OBSTRUCTIONS WHICH ARE WITHIN 18' (CLEAR ZONE) OF THE EDGE OF THE ROADWAY AND ARE NOT SHIELDED BY THE PROPOSED GUARDRAIL, SHALL BE REMOVED FROM STATION 45+53 TO 51+87. TYPICAL OBSTRUCTIONS ARE HEADWALLS, FOUNDATIONS, ETC. WHICH PROJECT 4 IN. OR MORE ABOVE THE GROUNDLINE; AND TREES WHICH WILL MATURE TO A DIAMETER OF 4 IN. OR GREATER.
- EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- ALL ELEVATIONS REFERRING TO U.S.C.S. MEAN SEA LEVEL DATUM.
- EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.
- ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT MIX ASPHALT SURFACE REMOVAL OR HOT MIX ASPHALT BINDER COURSE OR LEVELING BINDER, WHEN SPECIFIED.
- PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
- IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.
- THE COST FOR THE REMOVAL OF THE EXISTING AGGREGATE SHOULDERS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

COMMITMENTS

AS OF AUGUST 15, 2014, THE FOLLOWING COMMITMENTS HAVE BEEN MADE. REFER TO COMMITMENT FILE FOR ANY COMMITMENTS AFTER THIS DATE.

- THE WHITE COUNTY SHERIFF'S DEPARTMENT SHALL BE CONTACTED PRIOR TO THE 2 WEEK NOTIFICATION SIGNING AND PRIOR TO ANY WORK INVOLVING TRAFFIC CONTROL AND PROTECTION THAT AFFECTS THE PUBLIC.
PHONE : 618-382-5321

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREPARED BY: Joe Staniewicz
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Joe Staniewicz
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Cassie Tulea
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: Keith Kelly
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: [Signature]
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Daryl J. J... [Signature]
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: [Signature]
DISTRICT MATERIALS ENGINEER

FILE NAME * D:\978231-int-gennote.dgn
 PLOT DRIVER * 1001_PDF.plt
 PLOT DATE * 7/8/2014



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PLOT SCALE * 48.0000 * / in.	CHECKED - MTM	REVISED -
PLOT DATE * 7/8/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & STANDARDS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE. 877	SECTION 100B-1	COUNTY WHITE	TOTAL SHEETS 54	SHEET NO. 2
ILLINOIS FED. AID PROJECT CONTRACT NO. 78231							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BRIDGE
				0004	0014
				NONE	NONE
20200100	EARTH EXCAVATION	CU YD	315	315	
20400800	FURNISHED EXCAVATION	CU YD	780	780	
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75	
25000350	SEEDING, CLASS 7	ACRE	0.75	0.75	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	76	76	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	76	76	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	76	76	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.4	1.4	
25100115	MULCH, METHOD 2	ACRE	0.75	0.75	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	3028	3028	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	126	126	
28000305	TEMPORARY DITCH CHECKS	FOOT	43	43	
28000400	PERIMETER EROSION BARRIER	FOOT	1208	1208	
28100105	STONE RIPRAP, CLASS A3	SQ YD	39	39	

* SEE SPECIAL PROVISIONS
 Δ DENOTES SPECIALTY ITEM

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 DRAWN - CMM
 CHECKED - MTM
 DATE - 8/12

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	1008-1	WHITE	54	3
CONTRACT NO. 78231			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BRIDGE
				0004 NONE	0014 NONE
28100109	STONE RIPRAP, CLASS A5	SO YD	182		182
28200200	FILTER FABRIC	SO YD	126		126
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	842	842	
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	36	36	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	176	176	
40603320	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90	TON	92	92	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	76	76	
44000100	PAVEMENT REMOVAL	SO YD	233	233	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	418	418	
50102400	CONCRETE REMOVAL	CU YD	19.8		19.8
50104650	SLOPE WALL REMOVAL	SO YD	70		70
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	120		120
50300100	FLOOR DRAINS	EACH	20		20

* SEE SPECIAL PROVISIONS
 Δ DENOTES SPECIALTY ITEM

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 DRAWN - CMM
 CHECKED - MTM
 DATE - 8/12

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	4
CONTRACT NO. 78231			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BRIDGE
				0004	0014
				NONE	NONE
50300225	CONCRETE STRUCTURES	CU YD	54.8		54.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	316.5		316.5
50300260	BRIDGE DECK GROOVING	SQ YD	800		800
50300300	PROTECTIVE COAT	SQ YD	1036		1036
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	5180		5180
50500505	STUD SHEAR CONNECTORS	EACH	2880		2880
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	77150		77150
50800515	BAR SPLICERS	EACH	70		70
51100300	SLOPE WALL 6 INCH	SQ YD	40		40
51500100	NAME PLATES	EACH	1		1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	68		68
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12		12
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	6		6
52100505	ANCHOR BOLTS, 5/8"	EACH	36		36

* SEE SPECIAL PROVISIONS
 Δ DENOTES SPECIALTY ITEM

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 CHECKED - MTM
 DATE - 8/12

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	5
CONTRACT NO. 78231			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL ROADWAY	80% FEDERAL BRIDGE
				20% STATE 0004	20% STATE 0014
				NONE	NONE
54215547	METAL END SECTIONS 12"	EACH	4	4	
58700300	CONCRETE SEALER	SO FT	330		330
* 59000200	EPOXY CRACK INJECTION	FOOT	36		36
* 59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	80		80
60100945	PIPE DRAINS 12"	FOOT	290	290	
60900140	TYPE B INLET BOX, STANDARD 609006	EACH	4	4	
60900515	CONCRETE THRUST BLOCKS	EACH	4	4	
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	125	125	
Δ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	998	998	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
* 70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	8	

* SEE SPECIAL PROVISIONS
Δ DENOTES SPECIALTY ITEM

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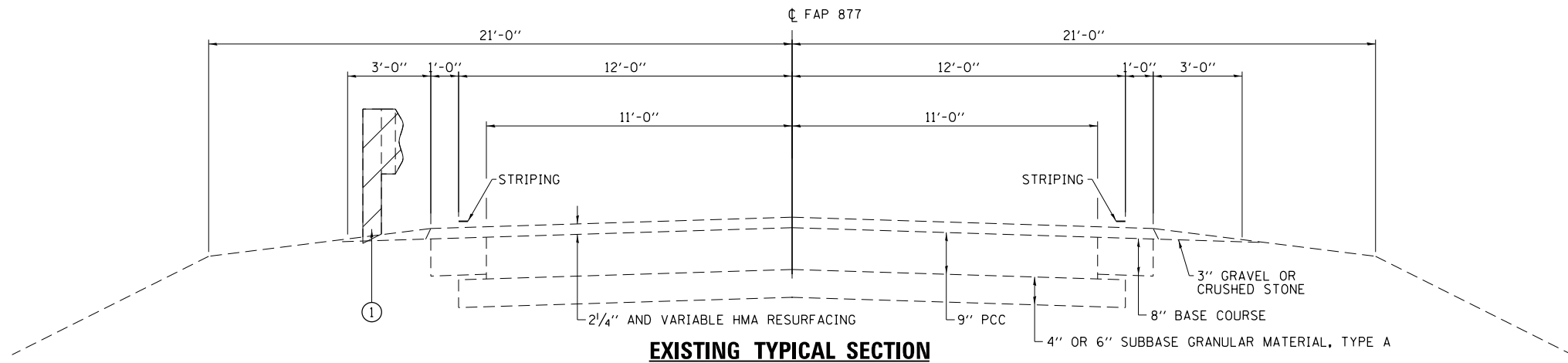
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SCALE: N.T.S. SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	6
CONTRACT NO. 78231			ILLINOIS FED. AID PROJECT	



AT GUARDRAIL

EXISTING TYPICAL SECTION

STA 45+53 TO 47+80

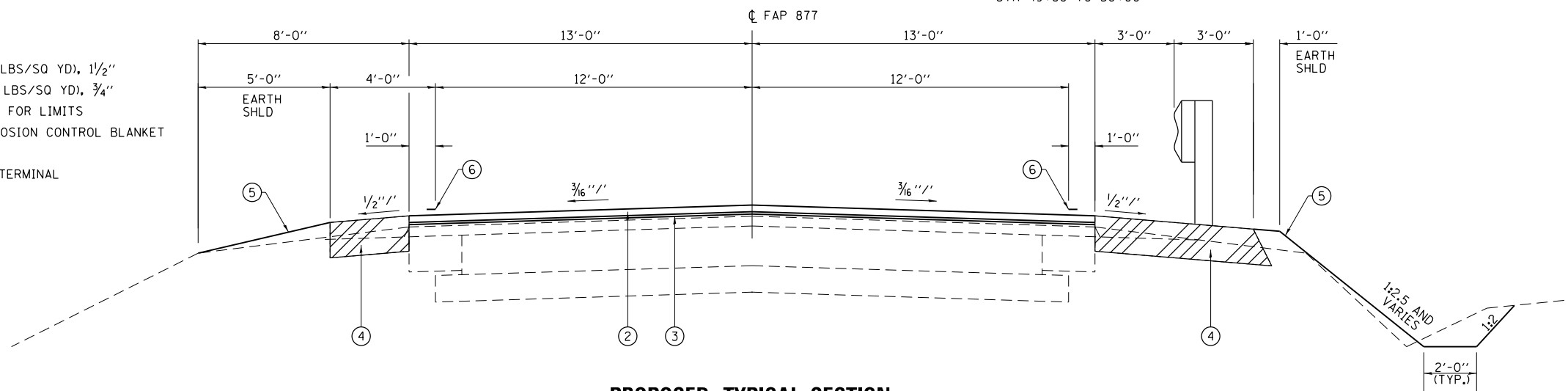
STA 49+60 TO 51+87

NO GUARDRAIL

NOTE: EXISTING BRIDGE APPROACH PAVEMENT
STA 47+40 TO 47+80 AND
STA 49+60 TO 50+00

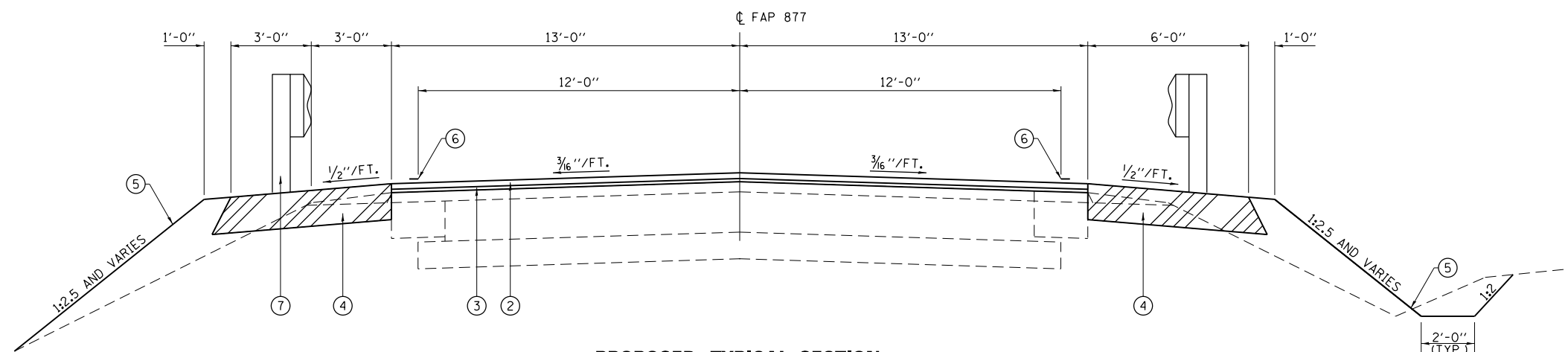
LEGEND

- ① GUARDRAIL REMOVAL
- ② HMA SURFACE COURSE, MIX C, N90 (168 LBS/SQ YD), 1 1/2"
- ③ LEVELING BINDER (MACHINE METHOD) (84 LBS/SQ YD), 3/4"
- ④ HMA SHOULDERS, 8" - SEE PLAN SHEETS FOR LIMITS
- ⑤ SEEDING, CLASS 2A AND HEAVY DUTY EROSION CONTROL BLANKET
- ⑥ PAINT PAVEMENT MARKING - LINE 4"
- ⑦ SPBGR, TY A 6' POSTS OR APPLICABLE TERMINAL SECTION (SEE PLANS), TYP



PROPOSED TYPICAL SECTION

STA 45+53 TO 46+60



PROPOSED TYPICAL SECTION

STA 46+60 TO 47+50

STA 49+90 TO 50+79

NOTE: VARIABLE DEPTH LEVELING BINDER
(MACHINE METHOD) STA 50+00 TO 51+00

NOTE: BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
STA 47+40 TO 47+50
STA 49+90 TO 50+00

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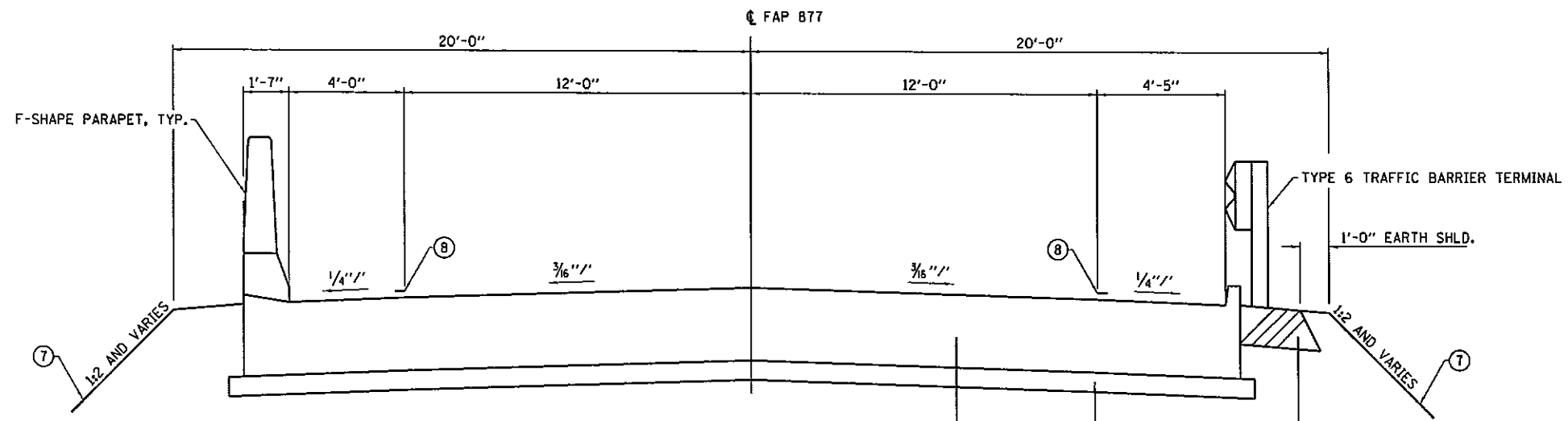
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 141 TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

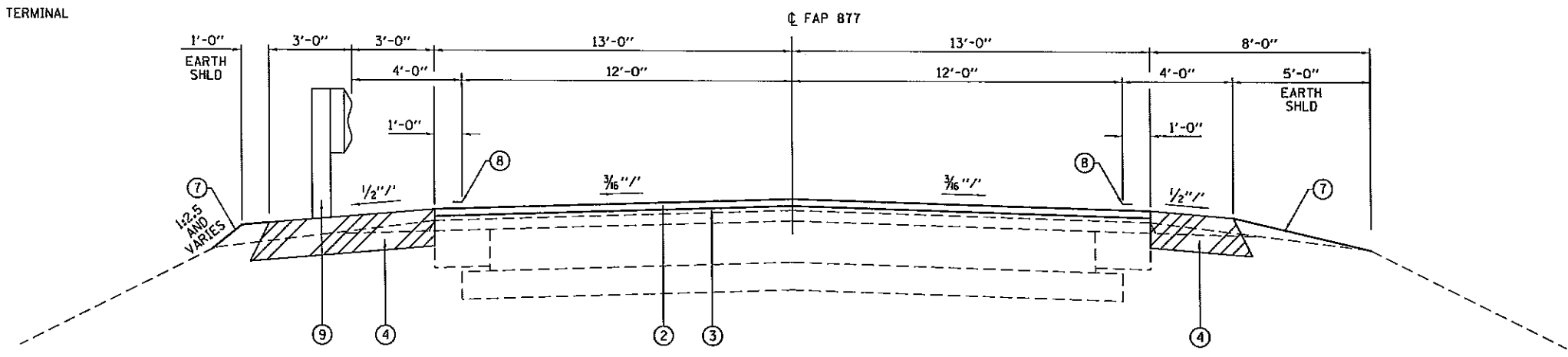
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	8
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION
NEAR ABUTMENT **STA 47+50 TO 47+80** **AT APPROACH FOOTING**
STA 49+60 TO 49+90

LEGEND

- ① GUARDRAIL REMOVAL
- ② HMA SURFACE COURSE, MIX C, N90 (168 LBS/SO YD), 1/2"
- ③ LEVELING BINDER (MACHINE METHOD) (84 LBS/SO YD), 3/4"
- ④ HMA SHOULDERS, 8" - SEE PLAN SHEETS FOR LIMITS
- ⑤ 15" BRIDGE APPROACH PAVEMENT
- ⑥ 4" GRANULAR SUB-BASE TYPE B
- ⑦ SEEDING, CLASS 2A AND HEAVY DUTY EROSION CONTROL BLANKET
- ⑧ PAINT PAVEMENT MARKING - LINE 4"
- ⑨ SPBGR, TY A 6' POSTS OR APPLICABLE TERMINAL SECTION (SEE PLANS), TYP



PROPOSED TYPICAL SECTION
STA 50+79 TO 51+87

HMA MIXTURES REQUIREMENTS

LOCATION(S):	HMA SURFACING	LEVELING BINDER	HMA SHOULDERS
MIXTURE USE(S):	HMA SURFACE CSE, MIX C, N90	LEVELING BINDER (MM) N90	HMA SHOULDERS
AC/PG GRADE:	PG64-22	PG64-22	PG58-22
RAP % (MAX): ***	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0%	4.0%	2.0% <i>at N30</i>
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5	IL-9.5	HMA SHOULDERS
FRICTION AGGREGATE:	C SURFACE	NONE	NONE

*** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED AS DETERMINED BY THE ENGINEER.

FILE NAME = D978231-shi-approach.dgn
 MODEL = Defaults
 PLOT DRIVER = PLOT_PDF.plt
 PLOT DATE = 7/8/2014



USER NAME = walker	DESIGNED - MCV	REVISED -
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PLOT DATE = 7/8/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 141 TYPICAL SECTIONS
 SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	9
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE						
LOCATION			EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	BALANCE WASTE (+) OR SHORTAGE (-)
STA	TO	STA	CU YD	CU YD	CU YD	CU YD
45+50.00		47+80.00	230	173	520	-347
49+60.00		52+00.00	85	64	260	-196
TOTALS			315	237	780	-543

SEEDING SCHEDULE											
LOCATION				MULCH METHOD 2	SEEDING, CLASS 2A	SEEDING CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	HEAVY DUTY EROS CONT BLANKET
STA	TO	STA	OFF	ACRE	ACRE	ACRE	POUND	POUND	POUND	TON	SQ YD
45+53.00		47+83.54	LT	0.11	0.11	0.11	9	9	9	0.2	357
45+53.00		47+83.54	RT	0.30	0.30	0.30	32	32	32	0.6	1275
49+56.46		51+87.00	LT	0.22	0.22	0.22	23	23	23	0.4	912
49+56.46		51+87.00	RT	0.12	0.12	0.12	12	12	12	0.2	484
TOTALS				0.75	0.75	0.75	76	76	76	1.4	3028

NOTES:
1. ASSUME 25% SHRINKAGE

EROSION CONTROL SCHEDULE						
LOCATION				TEMPORARY EROSION CONTROL SEEDING (2 APPS)	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
STA	TO	STA	OFF	POUND	FOOT	FOOT
45+53.00		47+83.54		15		263
45+53.00		47+83.54		53		407
49+56.46		51+87.00		38		278
49+56.46		51+87.00		20		260
46+25.00		46+25.00	60.5' RT		14	
47+00.00		47+00.00	61.5' RT		17	
47+75.00		47+75.00	71.5' RT		12	
TOTALS				126	43	1208

REMOVAL SCHEDULE					
LOCATION				HMA SURF REM - BUTT JOINT	PAVEMENT REMOVAL
STA	TO	STA	OFF	SQ YD	SQ YD
45+53.00		45+83.00		89	
51+57.00		51+87.00		87	
47+40.00		47+80.00			115 •
49+60.00		50+00.00			118 •
TOTALS				176	233

• INCLUDES REMOVAL OF BRIDGE APPROACH

PAVING SCHEDULE							
LOCATION				LEVELING BINDER (MM, N90)	HMA SURFACE CSE, MIX "C", N90	BRIDGE APPR PVMT CONNECTOR (FLEXIBLE)	BITUMINOUS MATERIALS (PRIME COAT)
STA	TO	STA	OFF	TON	TON	SQ YD	POUND
46+03.00		47+40.00		18			99
50+00.00		51+37.00		18			99
45+53.00		47+40.00			46		257
50+00.00		51+87.00			46		257
47+40.00		47+50.00				38	65
49+90.00		50+00.00				38	65
TOTALS				36	92	76	842

PAVEMENT MARKING SCHEDULE					
LOCATION				DESCRIPTION	PAINT PAVEMENT MARKING - LINE 4"
STA	TO	STA	OFF		FOOT
45+53.00		51+87.00		SKIP-DASH	160
45+53.00		51+87.00		LT EDGE	634
45+53.00		51+87.00		RT EDGE	634
TOTALS					1428

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE				
LOCATION		RAISED REFL PVMT MKR	RAISED REFL PVMT MKR (BRIDGE)	RAISED REFL PVMT MKR REMOVAL
STA	OFF	EACH	EACH	EACH
STA 45+86.00		1		1
STA 46+66.00		1		1
STA 47+46.00		1		1
STA 48+26.00			1	
STA 49+06.00			1	
STA 49+86.00			1	1
STA 50+66.00		1		1
STA 51+46.00		1		1
TOTALS		5	3	6

SHOULDER SCHEDULE				
LOCATION				HMA SHOULDERS, 8"
STA	TO	STA	OFF	SQ YD
45+53.00		45+98.00	RT	15
45+53.00		45+98.00	LT	15
51+42.00		51+87.00	RT	15
51+42.00		51+87.00	LT	15
45+98.00		47+65.00	RT	115
45+98.00		47+65.00	LT	94
49+60.00		51+42.00	RT	94
49+60.00		51+42.00	LT	115
TOTALS				478

GUARDRAIL SCHEDULE					
LOCATION	SPBGR, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1 (SPL) TAN	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED
	FOOT	EACH	EACH	EACH	EACH
STRUCTURE NO. 097-0027 - SW	62.5	1	1	4	1
STRUCTURE NO. 097-0027 - SE		1	1	4	1
STRUCTURE NO. 097-0027 - NW		1	1	4	1
STRUCTURE NO. 097-0027 - NE	62.5	1	1	4	1
TOTALS	125	4	4	16	4

GUARDRAIL REMOVAL SCHEDULE	
LOCATION	FOOT
SN 097-0027 - (IL 141) RT	499
SN 097-0027 - (IL 141) LT	499
TOTALS	998

DRAINAGE SCHEDULE						
LOCATION		METAL END SECTIONS 12"	PIPE DRAINS 12"	TYPE B INLET BOX, STD 609006	CONCRETE THRUST BLOCKS	STONE RIPRAP, CLASS A3
STA	OFF	EACH	FOOT	EACH	EACH	SO YD
47+63.25	16' RT	1	72	1	1	12
47+63.25	16' LT	1	62	1	1	11
49+76.75	16' RT	1	83	1	1	9
49+76.75	16' LT	1	73	1	1	7
TOTALS		4	290	4	4	39

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PLOT DATE = 7/9/2014

DESIGNED - MCV
DRAWN - CMM
CHECKED - MTM
DATE -

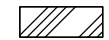

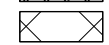
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

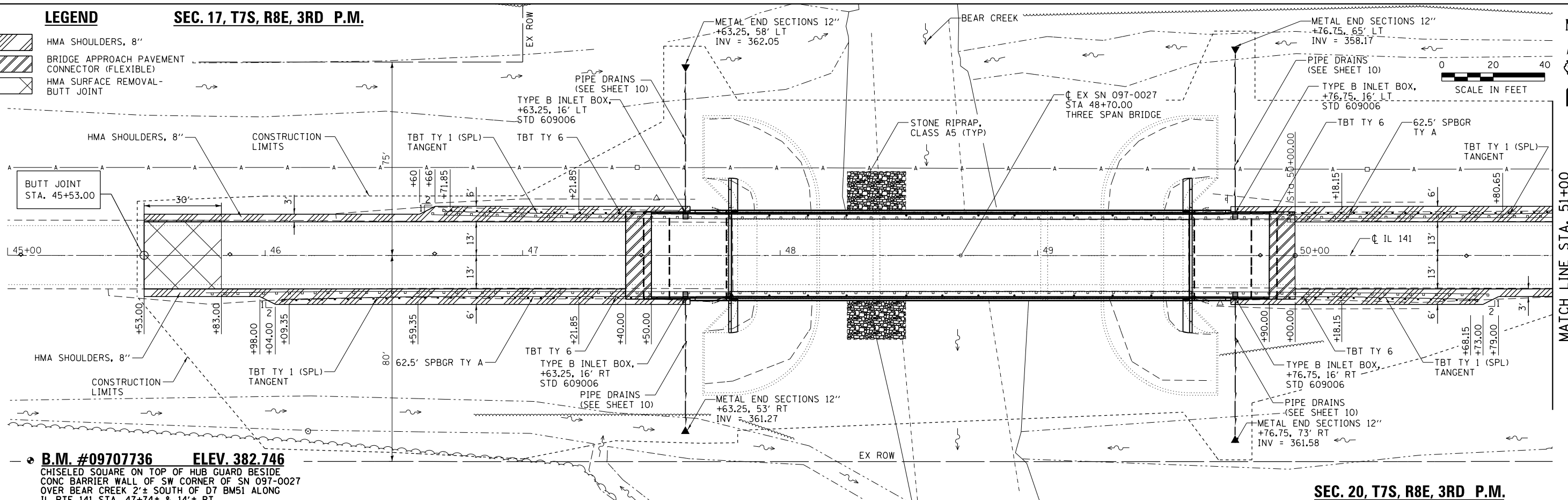
SCHEDULE OF QUANTITIES
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	10
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

LEGEND

-  HMA SHOULDERS, 8"
-  BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
-  HMA SURFACE REMOVAL-BUTT JOINT

SEC. 17, T7S, R8E, 3RD P.M.

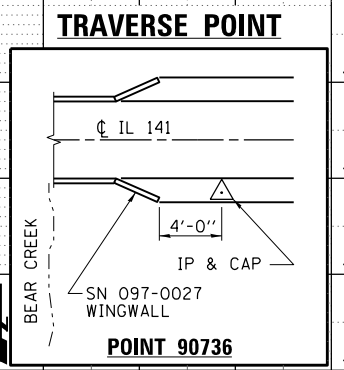
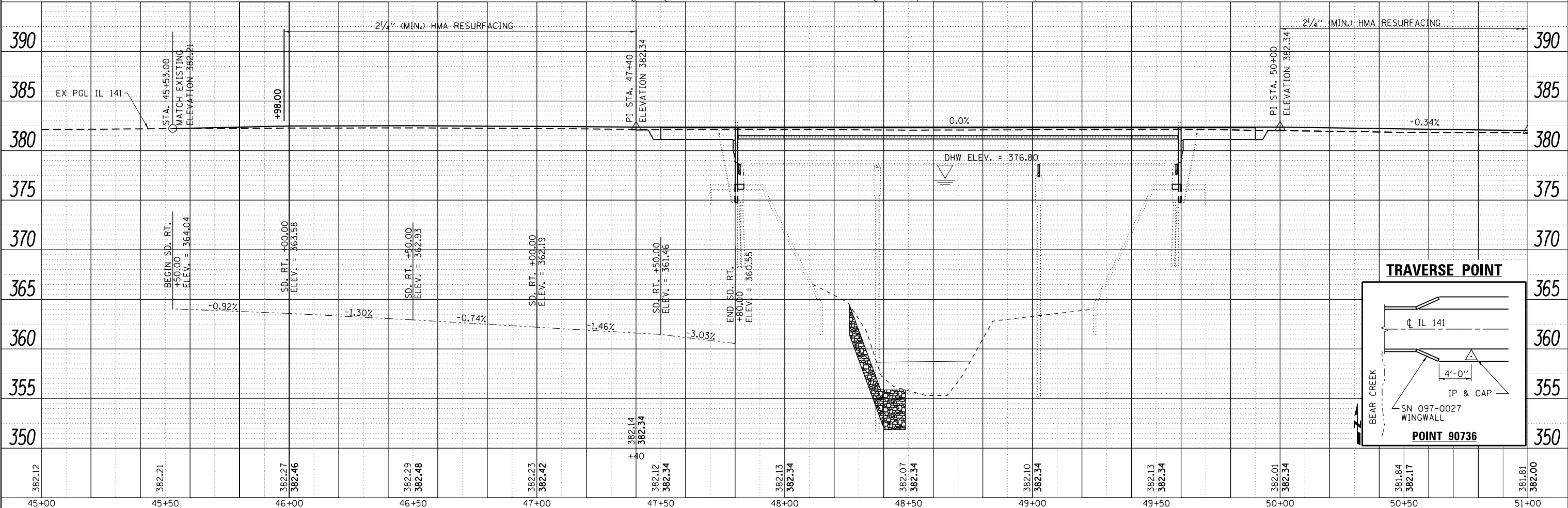


B.M. #09707736 ELEV. 382.746
 CHISELED SQUARE ON TOP OF HUB GUARD BESIDE CONC BARRIER WALL OF SW CORNER OF SN 097-0027 OVER BEAR CREEK 2'± SOUTH OF D7 BM51 ALONG IL RTE 141 STA. 47+74± & 14'± RT.

SEC. 20, T7S, R8E, 3RD P.M.

DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	
NO.	



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	SCALE: 1' = 20' SHEET 1 OF 2 SHEETS STA. 45+00.00 TO STA. 51+00.00								

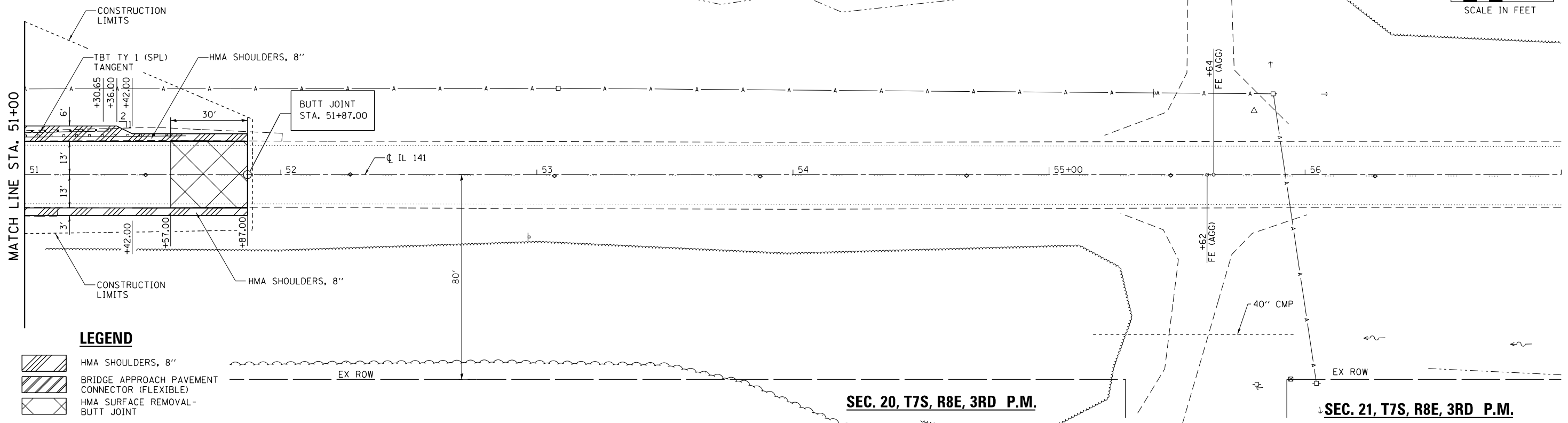
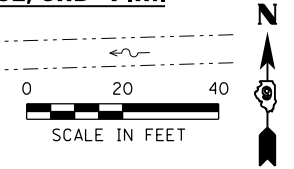
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	PLOTTED		
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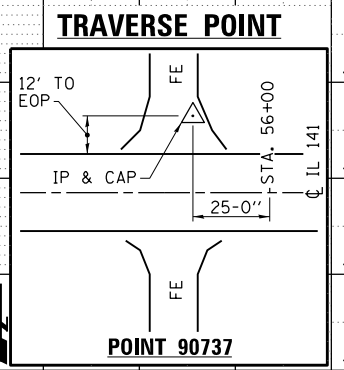
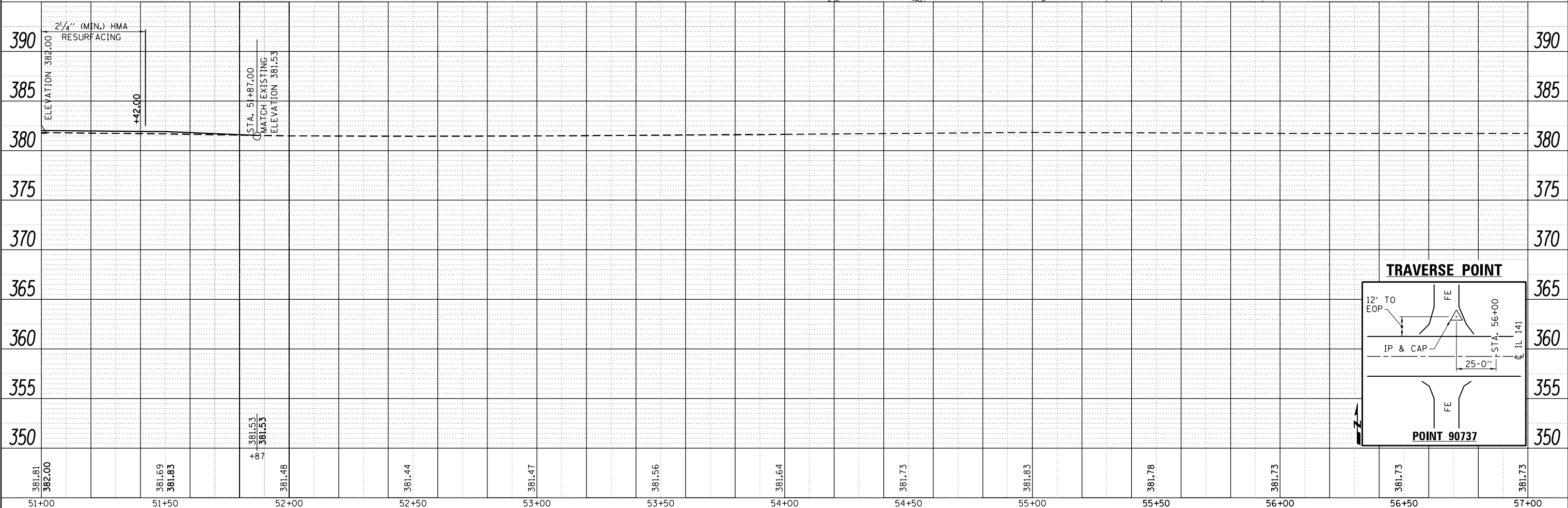
SEC. 17, T7S, R8E, 3RD P.M.

SEC. 16, T7S, R8E, 3RD P.M.



LEGEND

- HMA SHOULDERS, 8"
- BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
- HMA SURFACE REMOVAL - BUTT JOINT



381.81	382.00	381.69	381.83	381.53	381.48	381.44	381.47	381.56	381.64	381.73	381.83	381.78	381.73	381.73	381.73
51+00	51+50	52+00	52+50	53+00	53+50	54+00	54+50	55+00	55+50	56+00	56+50	57+00			

QUIGG ENGINEERING INC

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	DRAWN - CMM	REVISED -
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PLOT DATE = 7/8/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

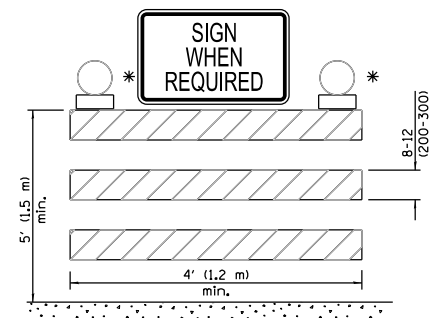
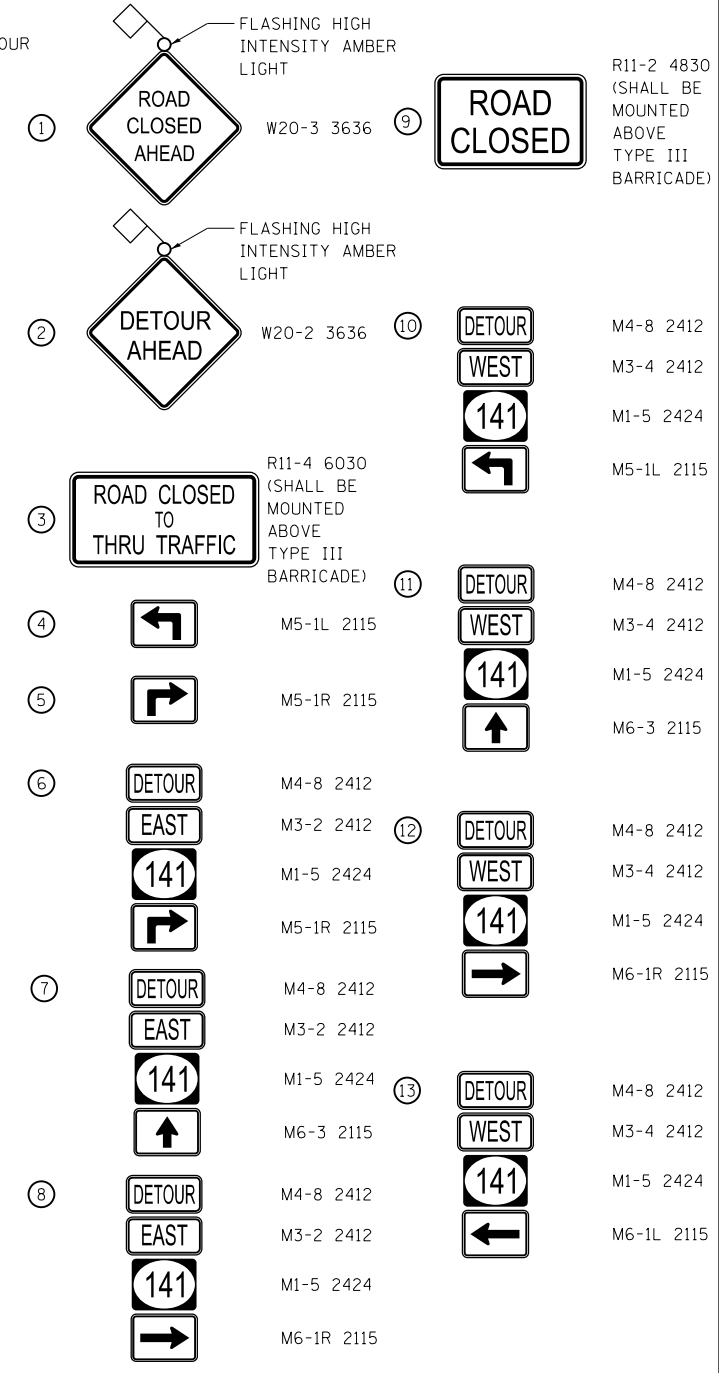
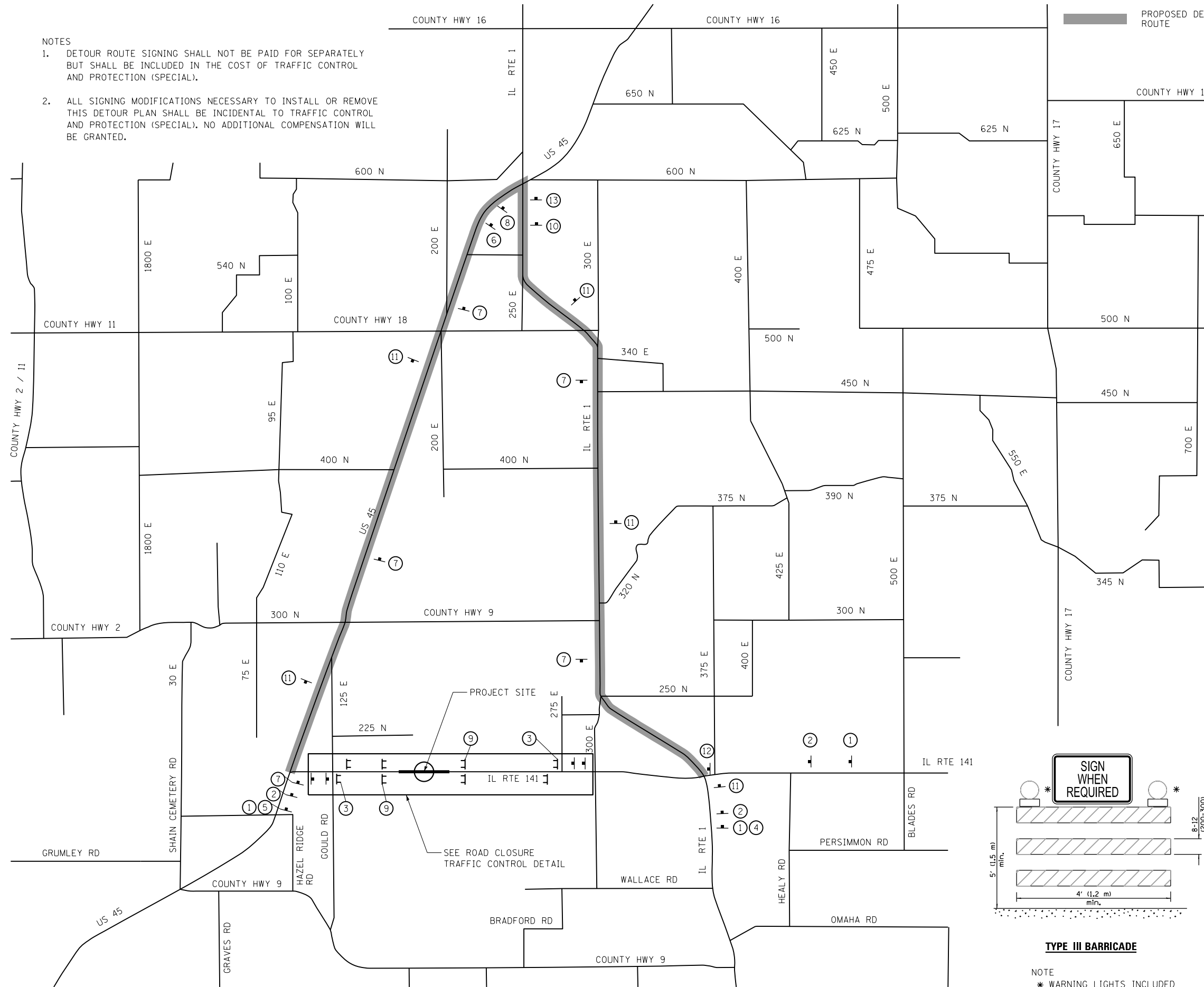
ILLINOIS ROUTE 141 PLAN & PROFILE

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 51+00.00 TO STA. 57+00.00

F.A.P. RTE. 877	SECTION 100B-1	COUNTY WHITE	TOTAL SHEETS 54	SHEET NO. 12
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

NOTES

1. DETOUR ROUTE SIGNING SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
2. ALL SIGNING MODIFICATIONS NECESSARY TO INSTALL OR REMOVE THIS DETOUR PLAN SHALL BE INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION (SPECIAL). NO ADDITIONAL COMPENSATION WILL BE GRANTED.



TYPE III BARRICADE

NOTE
* WARNING LIGHTS INCLUDED

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
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

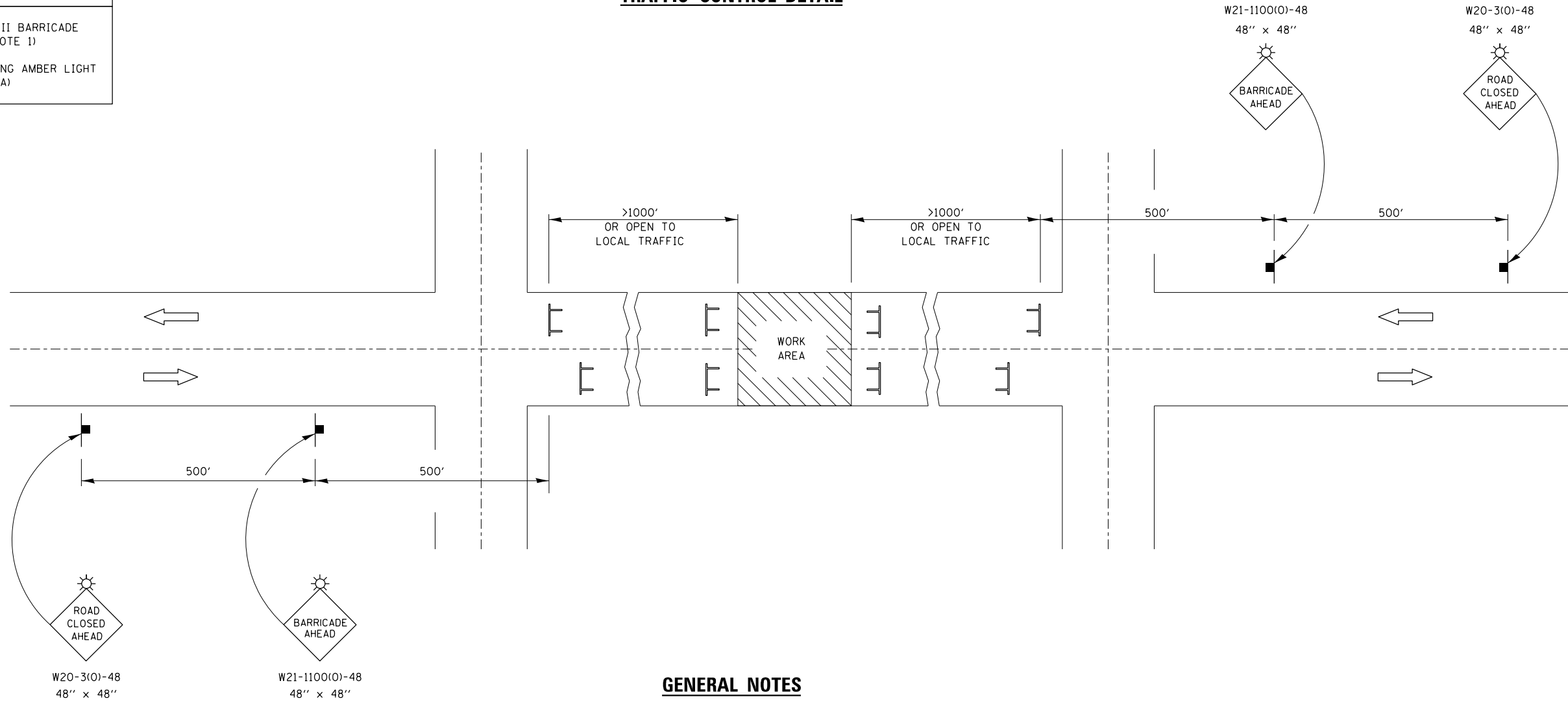
ILLINOIS ROUTE 141 DETOUR PLAN

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	13
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

ROAD CLOSURE TRAFFIC CONTROL DETAIL

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
3. WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
4. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
5. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
6. REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
8. A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
10. FORMS BT. 725 AND BT. 726 ARE REQUIRED.
11. WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
12. AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

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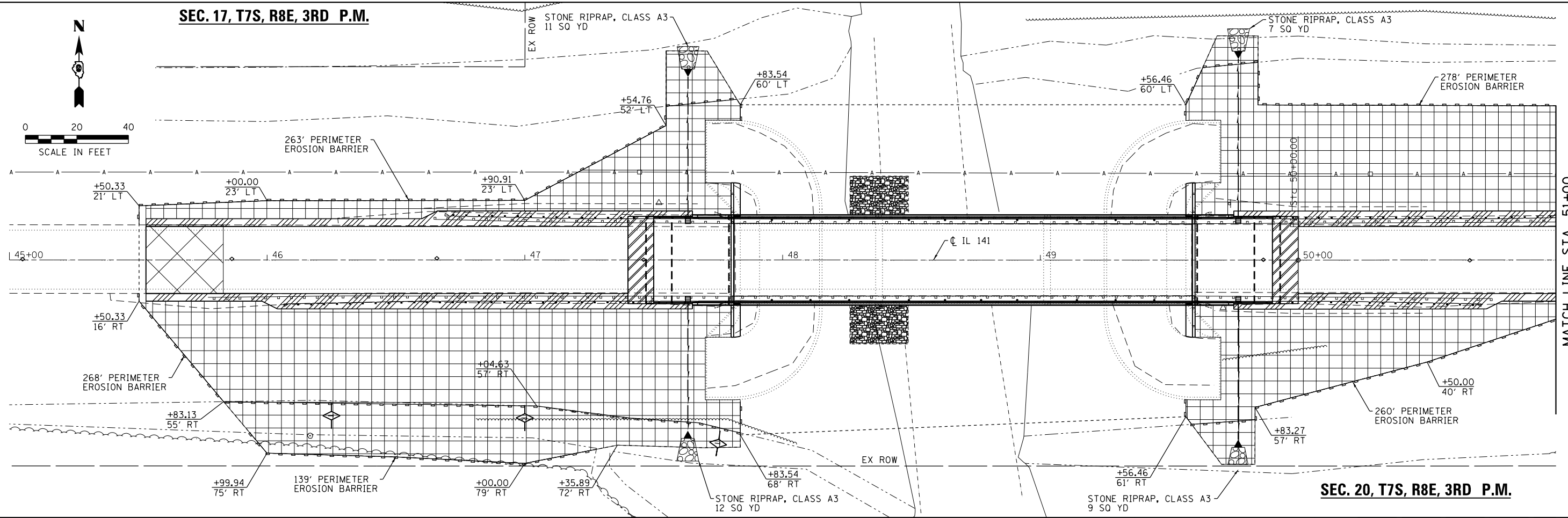
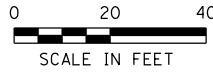
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROAD CLOSURE
TRAFFIC CONTROL DETAIL**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	14
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

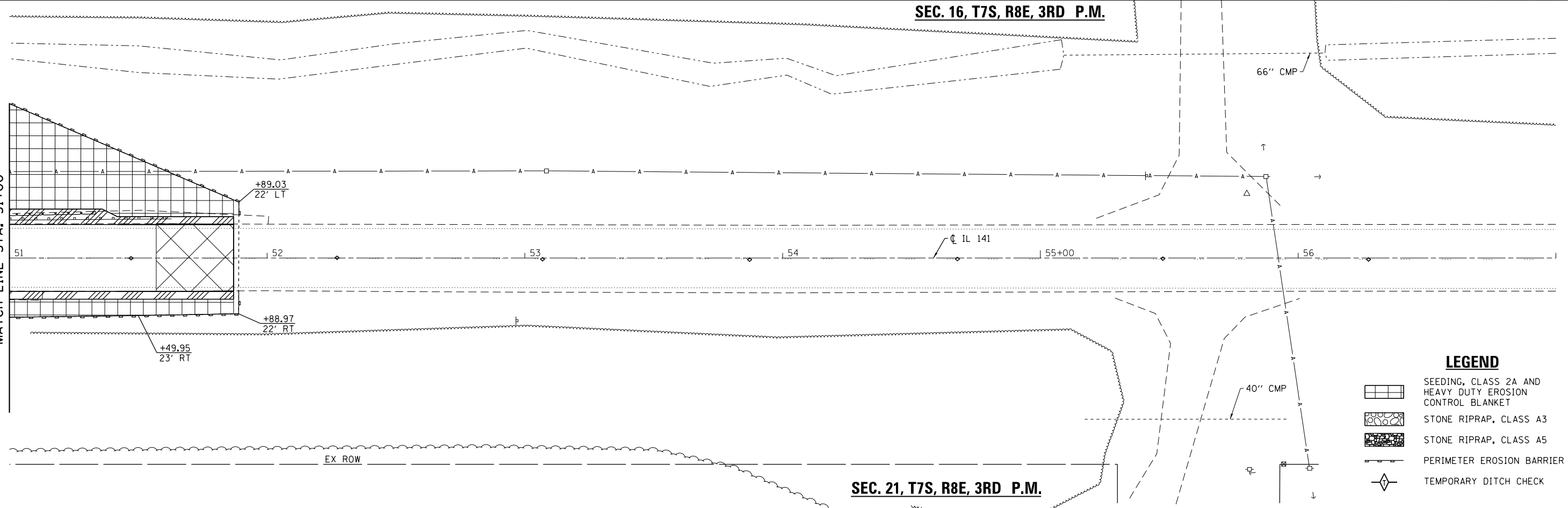
SEC. 17, T7S, R8E, 3RD P.M.



MATCH LINE STA. 51+00






SEC. 20, T7S, R8E, 3RD P.M.

SEC. 16, T7S, R8E, 3RD P.M.



SEC. 21, T7S, R8E, 3RD P.M.

LEGEND

-  SEEDING, CLASS 2A AND HEAVY DUTY EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A3
-  STONE RIPRAP, CLASS A5
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK

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PLOT DRIVER = \$PLTDVRS\$



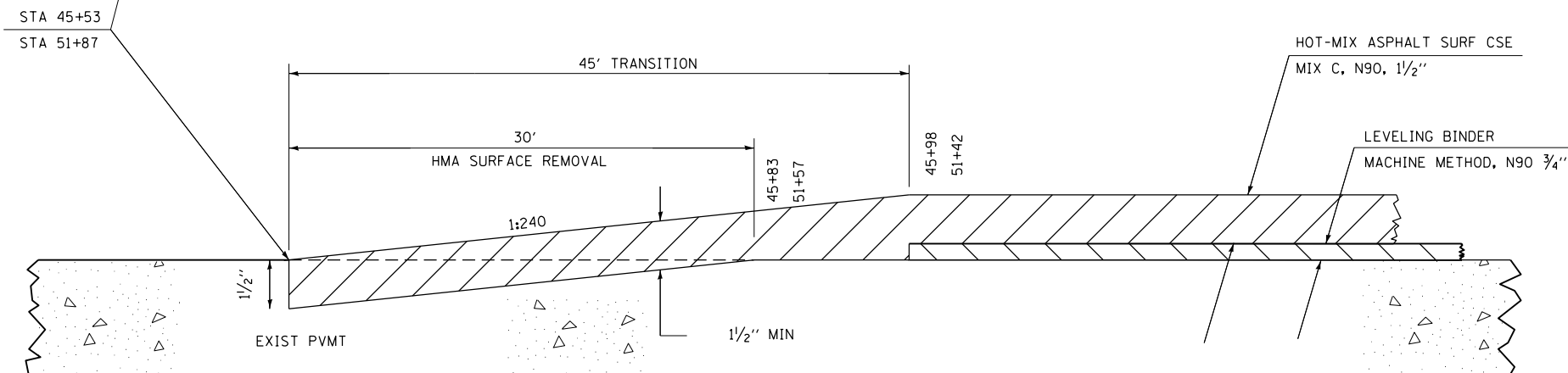
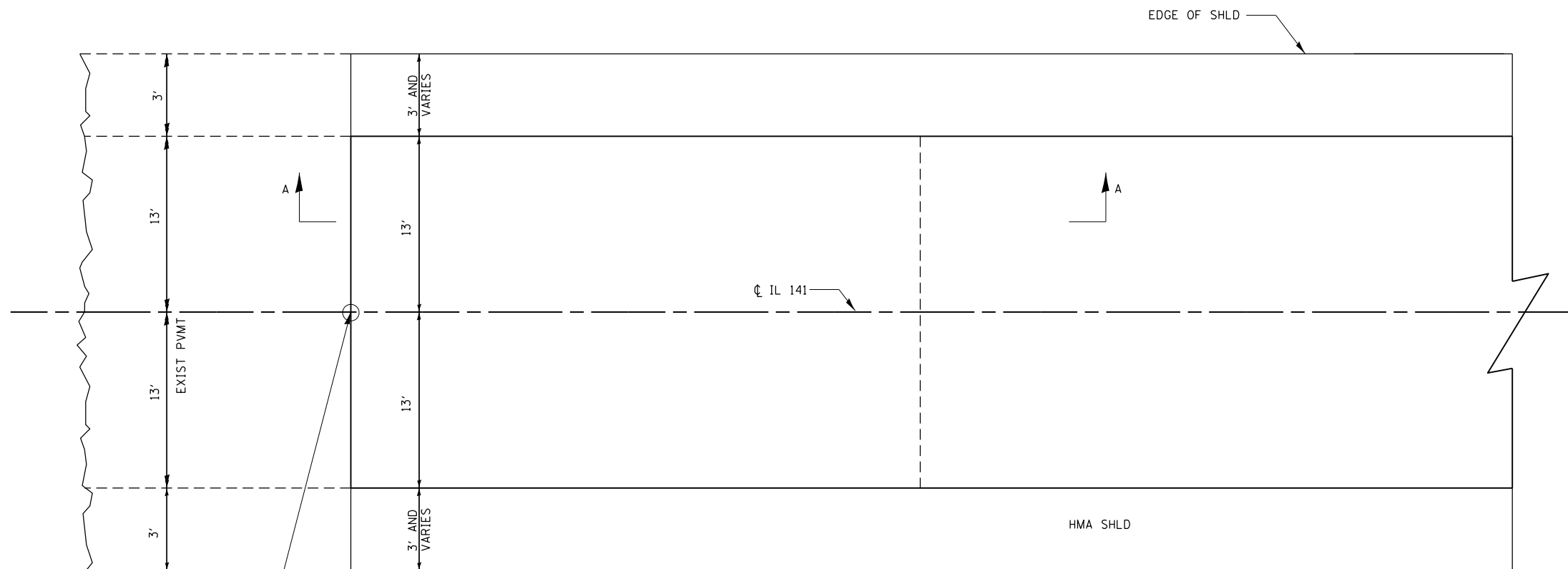
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PLOT DATE = 7/14/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 141
EROSION AND SEDIMENT CONTROL PLAN**
SCALE: 1" = 20" SHEET NO. 1 OF 1 SHEETS STA. 45+00.00 TO STA. 57+00.00

F.A.P. RTE. 877	SECTION 100B-1	COUNTY WHITE	TOTAL SHEETS 54	SHEET NO. 15
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

BUTT JOINT



SECTION A-A

REVISIONS	
DRAWN	10-17-90
REVISED	01-11-07
REVISED	3-25-08
REVISED	

STD. 9-86

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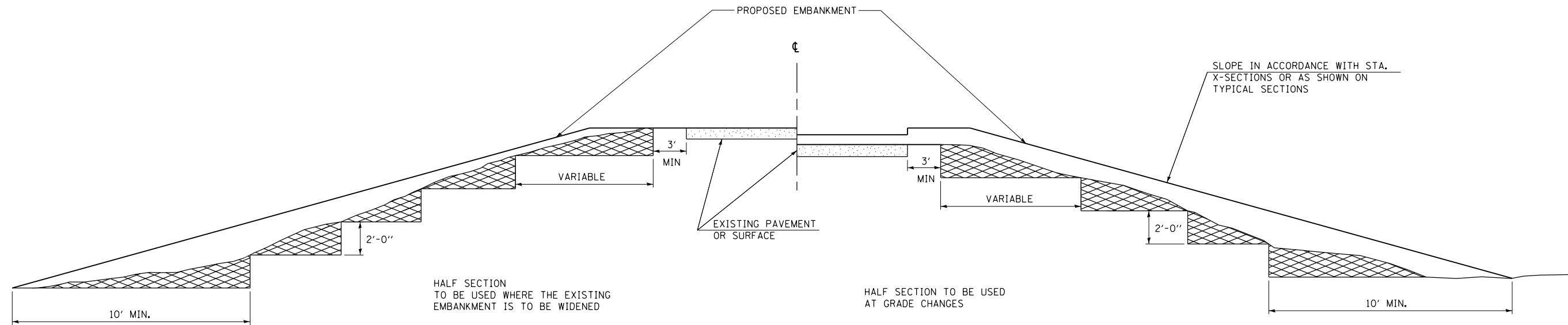
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**


BUTT JOINT DETAIL

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	16
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

**TYPICAL CROSS SECTION SHOWING
STEP CONSTRUCTION ON EXISTING FILL**



 MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08

STD. 9-16

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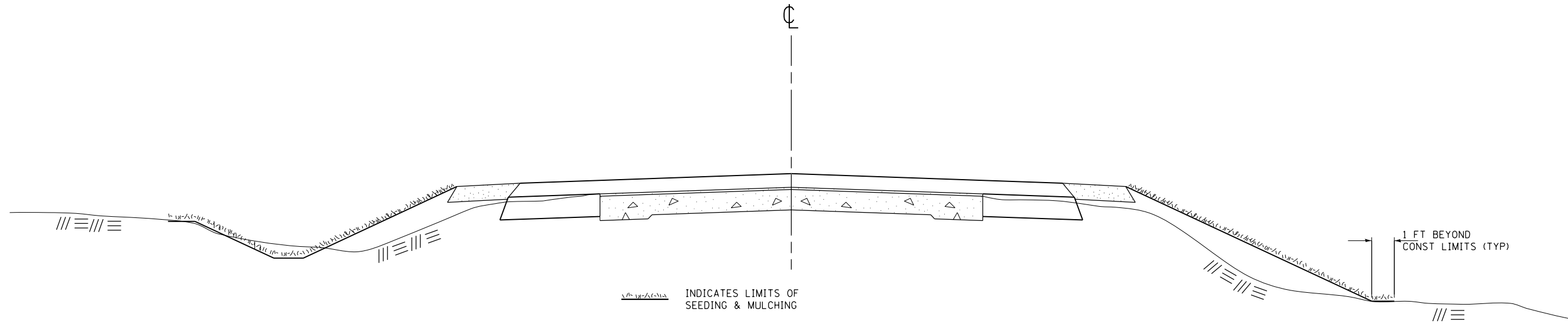
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STEP CONSTRUCTION DETAIL

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	17
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHING UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

STD. 9-12

FILE NAME = D978231-sht-detail.dgn
 MODEL = Default
 PLOT DRIVER = IODT_PDF.plt



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FILE NAME = D978231-sht-detail.dgn	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/8/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

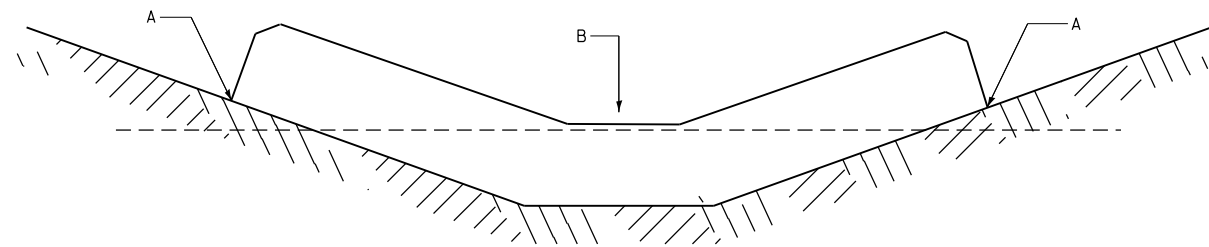
SEEDING AND MULCHING DETAIL

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	18
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

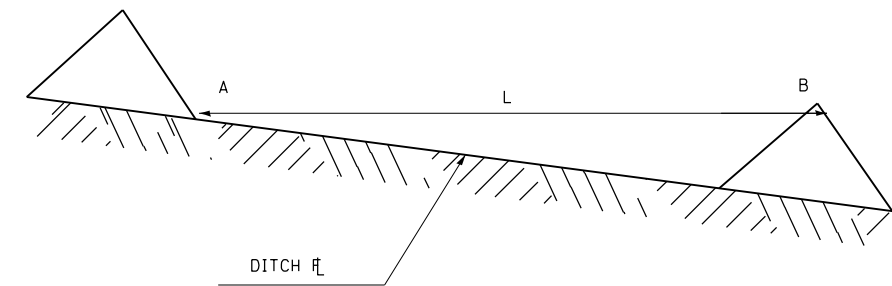
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY
DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS
A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT
IN CENTER OF CHECK

REVISIONS

DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10

STD. 9-108

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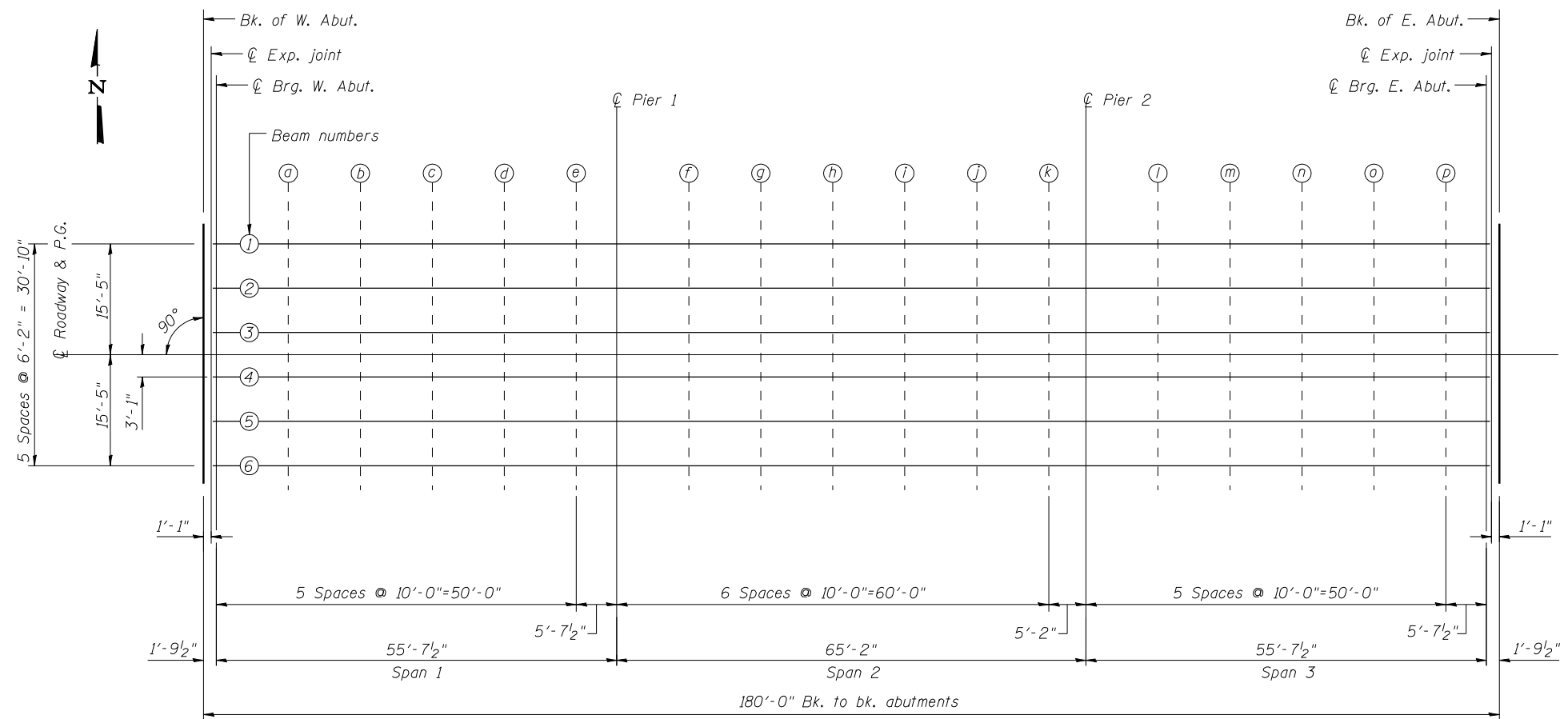
USER NAME = twalker	DESIGNED -	REVISED -
FILE NAME = D978231-sht-detail.dgn	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/8/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

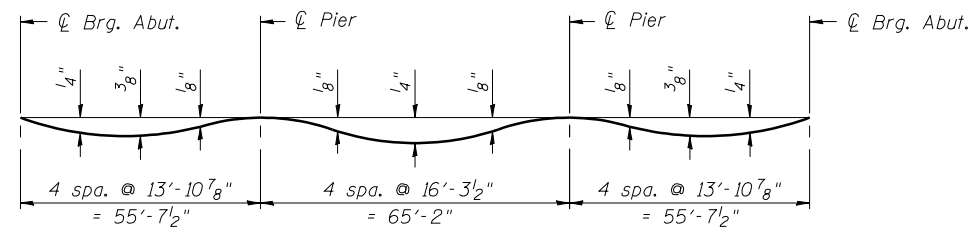
TEMPORARY DITCH CHECK DETAIL

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	19
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				



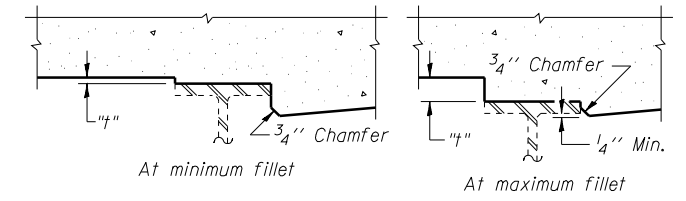
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 4 of 22.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 4 of 22, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



USER NAME = kah	DESIGNED - SHL 02/13	REVISED -
ESCA PROJECT NO. 988.14	CHECKED - RDP 02/13	REVISED -
	DRAWN - DWH 02/13	REVISED -
PLOT DATE = 7/3/2014 8:38:09 AM	CHECKED - SHL 05/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 097-0027**

SHEET NO. 3 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	22
CONTRACT NO. 78231				

ILLINOIS FED. AID PROJECT AID

BEAM 1

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	47+80.00	-15.42	382.08	382.08
☉ Exp. joint	47+81.08	-15.42	382.08	382.08
☉ Brg. W. Abut.	47+81.79	-15.42	382.08	382.08
a	47+91.79	-15.42	382.08	382.10
b	48+01.79	-15.42	382.08	382.11
c	48+11.79	-15.42	382.08	382.11
d	48+21.79	-15.42	382.08	382.10
e	48+31.79	-15.42	382.08	382.09
☉ Pier 1	48+37.42	-15.42	382.08	382.08
f	48+47.42	-15.42	382.08	382.09
g	48+57.42	-15.42	382.08	382.10
h	48+67.42	-15.42	382.08	382.10
i	48+77.42	-15.42	382.08	382.10
j	48+87.42	-15.42	382.08	382.09
k	48+97.42	-15.42	382.08	382.08
☉ Pier 2	49+02.58	-15.42	382.08	382.08
l	49+12.58	-15.42	382.08	382.09
m	49+22.58	-15.42	382.08	382.10
n	49+32.58	-15.42	382.08	382.11
o	49+42.58	-15.42	382.08	382.10
p	49+52.58	-15.42	382.08	382.09
☉ Brg. E. Abut.	49+58.21	-15.42	382.08	382.08
☉ Exp. joint	49+58.92	-15.42	382.08	382.08
Bk. of E. Abut.	49+60.00	-15.42	382.08	382.08

BEAM 2

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	47+80.00	-9.25	382.20	382.20
☉ Exp. joint	47+81.08	-9.25	382.20	382.20
☉ Brg. W. Abut.	47+81.79	-9.25	382.20	382.20
a	47+91.79	-9.25	382.20	382.22
b	48+01.79	-9.25	382.20	382.23
c	48+11.79	-9.25	382.20	382.23
d	48+21.79	-9.25	382.20	382.22
e	48+31.79	-9.25	382.20	382.21
☉ Pier 1	48+37.42	-9.25	382.20	382.20
f	48+47.42	-9.25	382.20	382.21
g	48+57.42	-9.25	382.20	382.22
h	48+67.42	-9.25	382.20	382.22
i	48+77.42	-9.25	382.20	382.22
j	48+87.42	-9.25	382.20	382.21
k	48+97.42	-9.25	382.20	382.20
☉ Pier 2	49+02.58	-9.25	382.20	382.20
l	49+12.58	-9.25	382.20	382.21
m	49+22.58	-9.25	382.20	382.22
n	49+32.58	-9.25	382.20	382.23
o	49+42.58	-9.25	382.20	382.22
p	49+52.58	-9.25	382.20	382.21
☉ Brg. E. Abut.	49+58.21	-9.25	382.20	382.20
☉ Exp. joint	49+58.92	-9.25	382.20	382.20
Bk. of E. Abut.	49+60.00	-9.25	382.20	382.20

BEAM 3

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	47+80.00	-3.08	382.29	382.29
☉ Exp. joint	47+81.08	-3.08	382.29	382.29
☉ Brg. W. Abut.	47+81.79	-3.08	382.29	382.29
a	47+91.79	-3.08	382.29	382.31
b	48+01.79	-3.08	382.29	382.32
c	48+11.79	-3.08	382.29	382.32
d	48+21.79	-3.08	382.29	382.31
e	48+31.79	-3.08	382.29	382.30
☉ Pier 1	48+37.42	-3.08	382.29	382.29
f	48+47.42	-3.08	382.29	382.30
g	48+57.42	-3.08	382.29	382.31
h	48+67.42	-3.08	382.29	382.31
i	48+77.42	-3.08	382.29	382.31
j	48+87.42	-3.08	382.29	382.30
k	48+97.42	-3.08	382.29	382.29
☉ Pier 2	49+02.58	-3.08	382.29	382.29
l	49+12.58	-3.08	382.29	382.30
m	49+22.58	-3.08	382.29	382.31
n	49+32.58	-3.08	382.29	382.32
o	49+42.58	-3.08	382.29	382.31
p	49+52.58	-3.08	382.29	382.30
☉ Brg. E. Abut.	49+58.21	-3.08	382.29	382.29
☉ Exp. joint	49+58.92	-3.08	382.29	382.29
Bk. of E. Abut.	49+60.00	-3.08	382.29	382.29

☉ ROADWAY & P.G.

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	47+80.00	0.00	382.34	382.34
☉ Exp. joint	47+81.08	0.00	382.34	382.34
☉ Brg. W. Abut.	47+81.79	0.00	382.34	382.34
a	47+91.79	0.00	382.34	382.36
b	48+01.79	0.00	382.34	382.37
c	48+11.79	0.00	382.34	382.37
d	48+21.79	0.00	382.34	382.36
e	48+31.79	0.00	382.34	382.35
☉ Pier 1	48+37.42	0.00	382.34	382.34
f	48+47.42	0.00	382.34	382.35
g	48+57.42	0.00	382.34	382.36
h	48+67.42	0.00	382.34	382.36
i	48+77.42	0.00	382.34	382.36
j	48+87.42	0.00	382.34	382.35
k	48+97.42	0.00	382.34	382.34
☉ Pier 2	49+02.58	0.00	382.34	382.34
l	49+12.58	0.00	382.34	382.35
m	49+22.58	0.00	382.34	382.36
n	49+32.58	0.00	382.34	382.37
o	49+42.58	0.00	382.34	382.36
p	49+52.58	0.00	382.34	382.35
☉ Brg. E. Abut.	49+58.21	0.00	382.34	382.34
☉ Exp. joint	49+58.92	0.00	382.34	382.34
Bk. of E. Abut.	49+60.00	0.00	382.34	382.34

BEAM 4

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	47+80.00	3.08	382.29	382.29
☉ Exp. joint	47+81.08	3.08	382.29	382.29
☉ Brg. W. Abut.	47+81.79	3.08	382.29	382.29
a	47+91.79	3.08	382.29	382.31
b	48+01.79	3.08	382.29	382.32
c	48+11.79	3.08	382.29	382.32
d	48+21.79	3.08	382.29	382.31
e	48+31.79	3.08	382.29	382.30
☉ Pier 1	48+37.42	3.08	382.29	382.29
f	48+47.42	3.08	382.29	382.30
g	48+57.42	3.08	382.29	382.31
h	48+67.42	3.08	382.29	382.31
i	48+77.42	3.08	382.29	382.31
j	48+87.42	3.08	382.29	382.30
k	48+97.42	3.08	382.29	382.29
☉ Pier 2	49+02.58	3.08	382.29	382.29
l	49+12.58	3.08	382.29	382.30
m	49+22.58	3.08	382.29	382.31
n	49+32.58	3.08	382.29	382.32
o	49+42.58	3.08	382.29	382.31
p	49+52.58	3.08	382.29	382.30
☉ Brg. E. Abut.	49+58.21	3.08	382.29	382.29
☉ Exp. joint	49+58.92	3.08	382.29	382.29
Bk. of E. Abut.	49+60.00	3.08	382.29	382.29

BEAM 5

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	47+80.00	9.25	382.20	382.20
☉ Exp. joint	47+81.08	9.25	382.20	382.20
☉ Brg. W. Abut.	47+81.79	9.25	382.20	382.20
a	47+91.79	9.25	382.20	382.22
b	48+01.79	9.25	382.20	382.23
c	48+11.79	9.25	382.20	382.23
d	48+21.79	9.25	382.20	382.22
e	48+31.79	9.25	382.20	382.21
☉ Pier 1	48+37.42	9.25	382.20	382.20
f	48+47.42	9.25	382.20	382.21
g	48+57.42	9.25	382.20	382.22
h	48+67.42	9.25	382.20	382.22
i	48+77.42	9.25	382.20	382.22
j	48+87.42	9.25	382.20	382.21
k	48+97.42	9.25	382.20	382.20
☉ Pier 2	49+02.58	9.25	382.20	382.20
l	49+12.58	9.25	382.20	382.21
m	49+22.58	9.25	382.20	382.22
n	49+32.58	9.25	382.20	382.23
o	49+42.58	9.25	382.20	382.22
p	49+52.58	9.25	382.20	382.21
☉ Brg. E. Abut.	49+58.21	9.25	382.20	382.20
☉ Exp. joint	49+58.92	9.25	382.20	382.20
Bk. of E. Abut.	49+60.00	9.25	382.20	382.20

BEAM 6

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	47+80.00	15.42	382.08	382.08
☉ Exp. joint	47+81.08	15.42	382.08	382.08
☉ Brg. W. Abut.	47+81.79	15.42	382.08	382.08
a	47+91.79	15.42	382.08	382.10
b	48+01.79	15.42	382.08	382.11
c	48+11.79	15.42	382.08	382.11
d	48+21.79	15.42	382.08	382.10
e	48+31.79	15.42	382.08	382.09
☉ Pier 1	48+37.42	15.42	382.08	382.08
f	48+47.42	15.42	382.08	382.09
g	48+57.42	15.42	382.08	382.10
h	48+67.42	15.42	382.08	382.10
i	48+77.42	15.42	382.08	382.10
j	48+87.42	15.42	382.08	382.09
k	48+97.42	15.42	382.08	382.08
☉ Pier 2	49+02.58	15.42	382.08	382.08
l	49+12.58	15.42	382.08	382.09
m	49+22.58	15.42	382.08	382.10
n	49+32.58	15.42	382.08	382.11
o	49+42.58	15.42	382.08	382.10
p	49+52.58	15.42	382.08	382.09
☉ Brg. E. Abut.	49+58.21	15.42	382.08	382.08
☉ Exp. joint	49+58.92	15.42	382.08	382.08
Bk. of E. Abut.	49+60.00	15.42	382.08	382.08



USER NAME = kah	DESIGNED - SHL 02/13	REVISED -
ESCA PROJECT NO. 988.14	CHECKED - RDP 02/13	REVISED -
	DRAWN - DWH 02/13	REVISED -
PLOT DATE = 7/3/2014 8:38:18 AM	CHECKED - SHL 05/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 097-0027**

SHEET NO. 4 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	23
ILLINOIS FED. AID PROJECT AID			CONTRACT NO. 78231	

NORTH EDGE OF SHOULDER
OR SOUTH FACE OF PARAPET

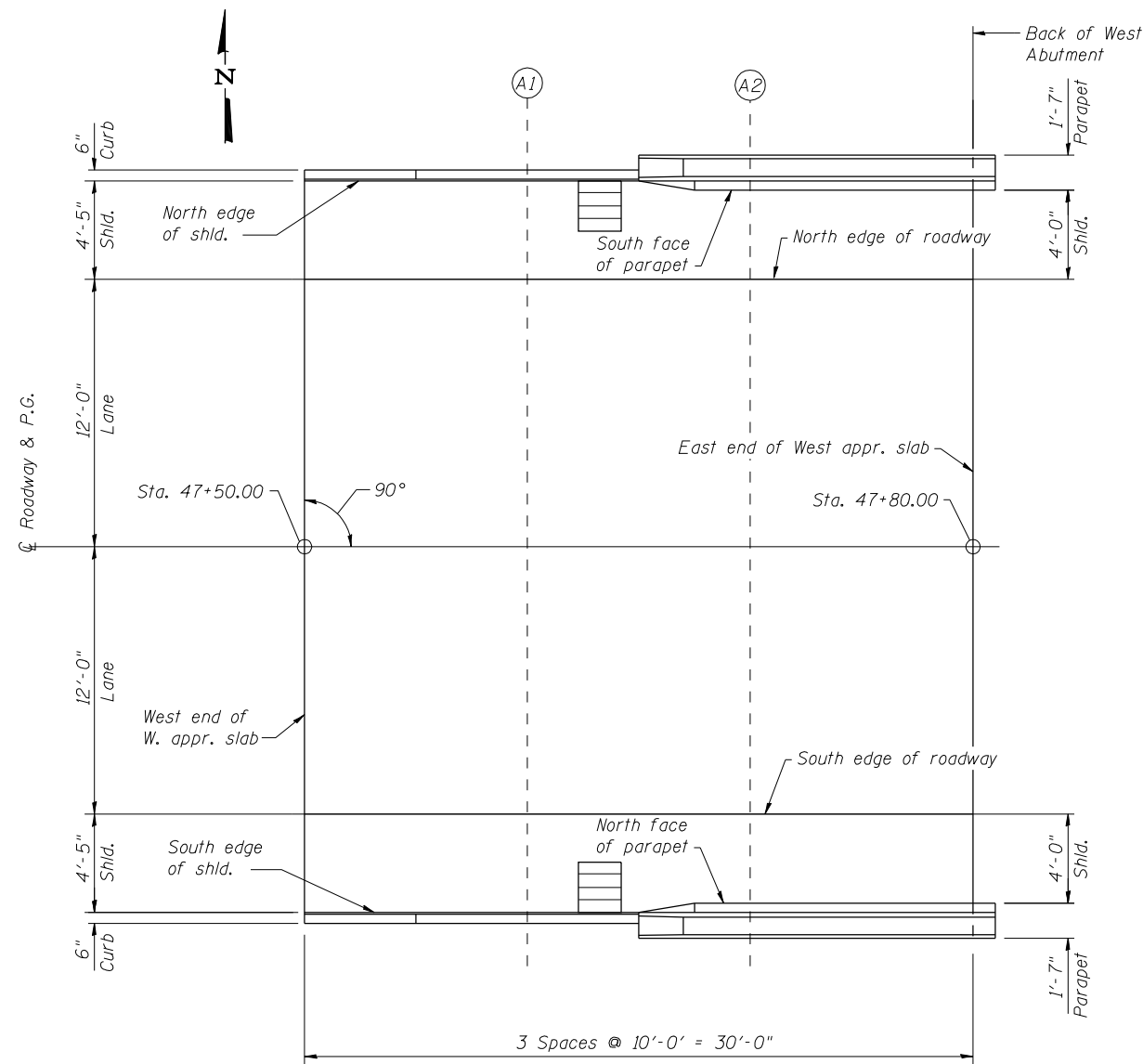
Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Slab	47+50.00	-16.42	382.06
A1	47+60.00	-16.42	382.06
A2	47+70.00	-16.00	382.07
E. End W. Appr. Slab	47+80.00	-16.00	382.07

NORTH EDGE OF ROADWAY

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Slab	47+50.00	-12.00	382.15
A1	47+60.00	-12.00	382.15
A2	47+70.00	-12.00	382.15
E. End W. Appr. Slab	47+80.00	-12.00	382.15

℄ ROADWAY & P.G.

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Slab	47+50.00	0.00	382.34
A1	47+60.00	0.00	382.34
A2	47+70.00	0.00	382.34
E. End W. Appr. Slab	47+80.00	0.00	382.34



PLAN

SOUTH EDGE OF ROADWAY

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Slab	47+50.00	12.00	382.15
A1	47+60.00	12.00	382.15
A2	47+70.00	12.00	382.15
E. End W. Appr. Slab	47+80.00	12.00	382.15

SOUTH EDGE OF SHOULDER
OR NORTH FACE OF PARAPET

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Slab	47+50.00	16.42	382.06
A1	47+60.00	16.42	382.06
A2	47+70.00	16.00	382.07
E. End W. Appr. Slab	47+80.00	16.00	382.07



USER NAME = kah	DESIGNED - SHL 02/13	REVISED -
ESCA PROJECT NO. 988.14	CHECKED - RDP 02/13	REVISED -
	DRAWN - DWH 02/13	REVISED -
PLOT DATE = 7/3/2014 8:38:24 AM	CHECKED - SHL 05/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 097-0027**

SHEET NO. 5 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	24
CONTRACT NO. 78231			ILLINOIS FED. AID PROJECT AID	

NORTH EDGE OF SHOULDER
OR SOUTH FACE OF PARAPET

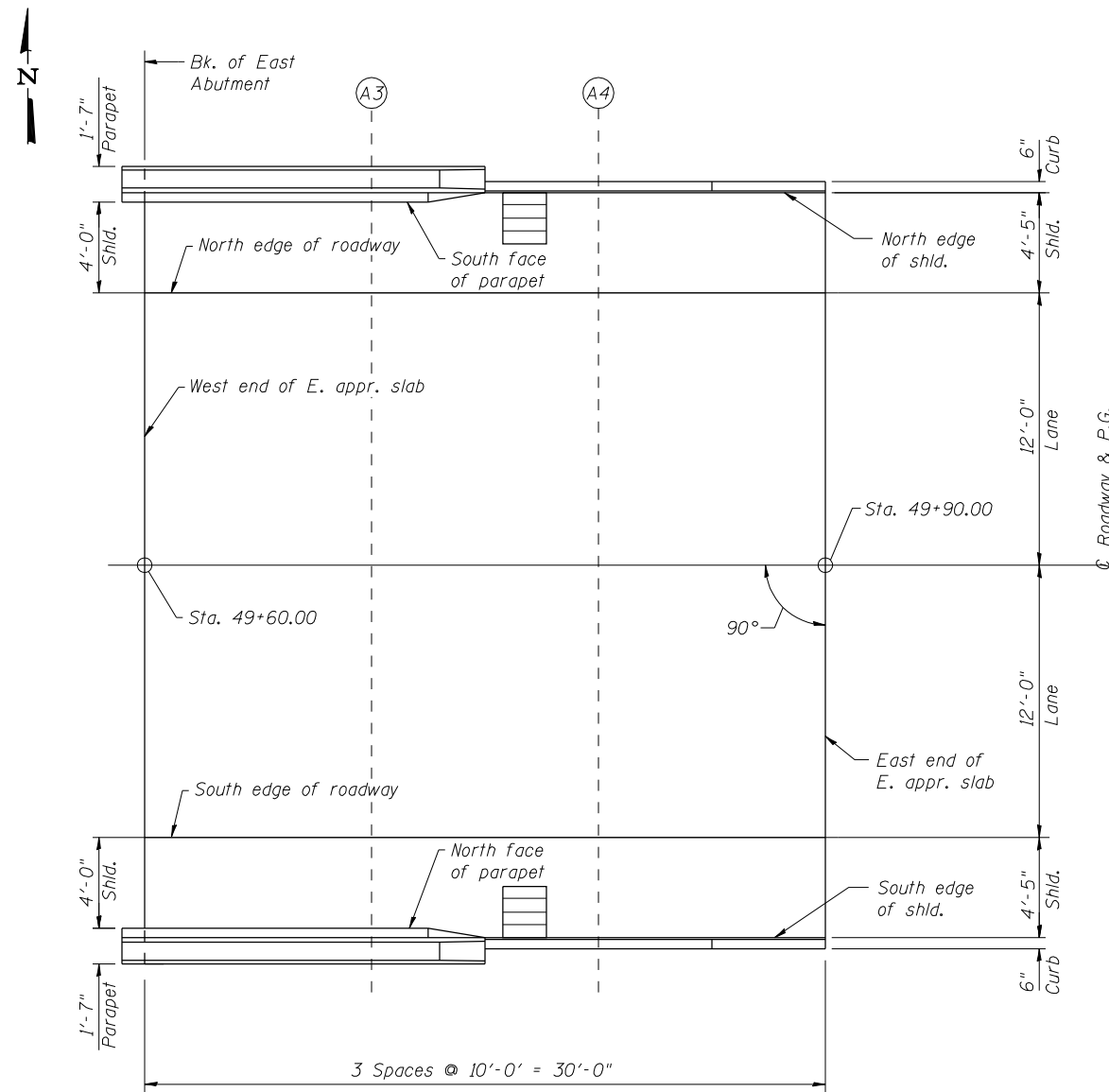
Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Slab	49+60.00	-16.00	382.07
A3	49+70.00	-16.00	382.07
A4	49+80.00	-16.42	382.06
E. End E. Appr. Slab	49+90.00	-16.42	382.06

NORTH EDGE OF ROADWAY

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Slab	49+60.00	-12.00	382.15
A3	49+70.00	-12.00	382.15
A4	49+80.00	-12.00	382.15
E. End E. Appr. Slab	49+90.00	-12.00	382.15

☉ ROADWAY & P.G.

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Slab	49+60.00	0.00	382.34
A3	49+70.00	0.00	382.34
A4	49+80.00	0.00	382.34
E. End E. Appr. Slab	49+90.00	0.00	382.34



PLAN

SOUTH EDGE OF ROADWAY

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Slab	49+60.00	12.00	382.15
A3	49+70.00	12.00	382.15
A4	49+80.00	12.00	382.15
E. End E. Appr. Slab	49+90.00	12.00	382.15

SOUTH EDGE OF SHOULDER
OR NORTH FACE OF PARAPET

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Slab	49+60.00	16.00	382.07
A3	49+70.00	16.00	382.07
A4	49+80.00	16.42	382.06
E. End E. Appr. Slab	49+90.00	16.42	382.06



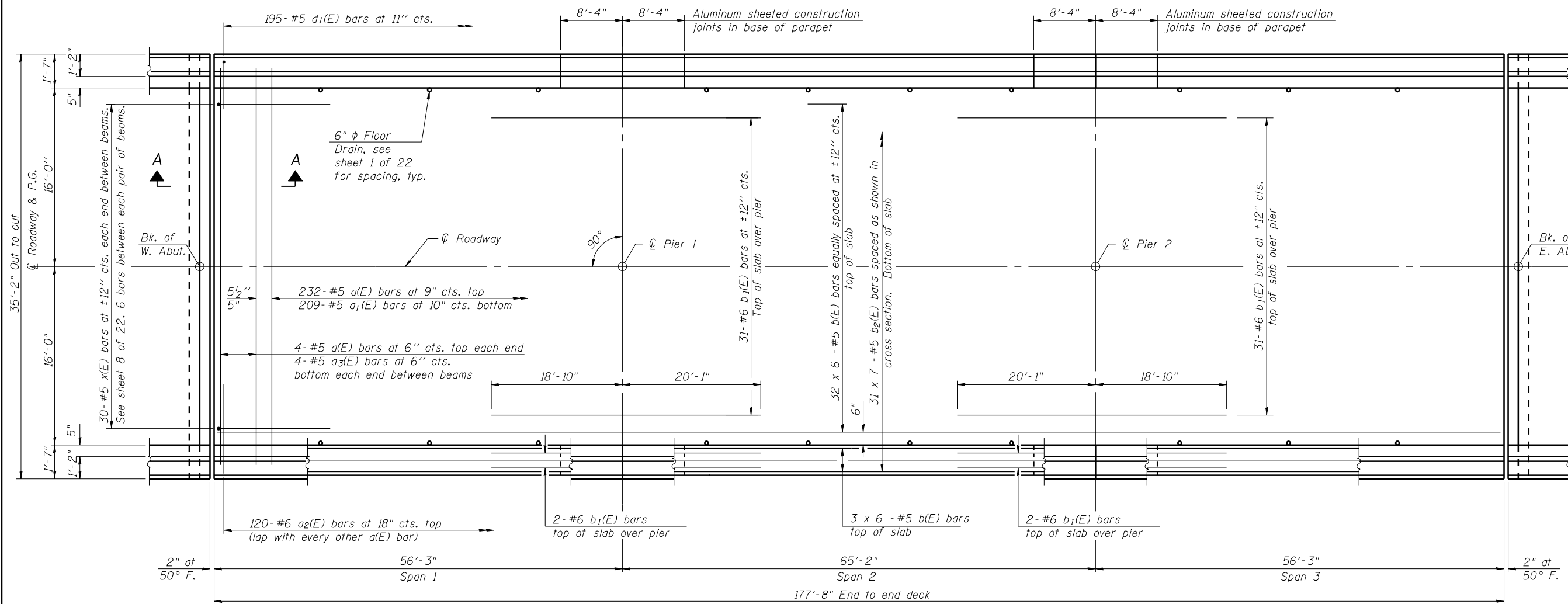
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PLOT DATE = 7/3/2014 8:38:30 AM	CHECKED - SHL 05/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 097-0027**

SHEET NO. 6 OF 22 SHEETS

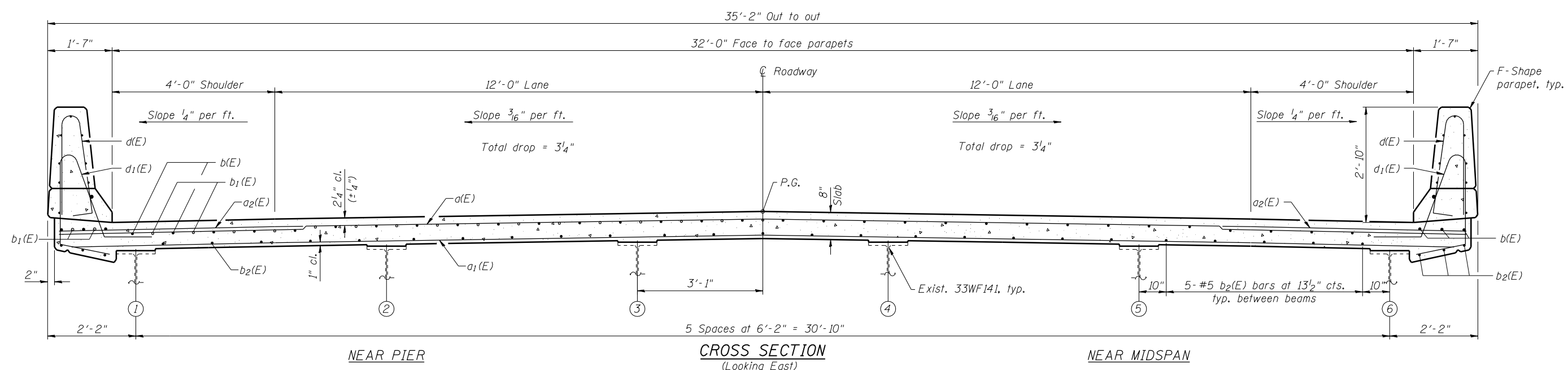
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	25
ILLINOIS FED. AID PROJECT AID			CONTRACT NO. 78231	



PLAN

MINIMUM BAR LAP
(Slab)
#5 bar = 2'-7"

Notes:
See sheet 8 of 22 for Section A-A, superstructure details, and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See sheet 8 of 22 for parapet reinforcement.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 097-0027

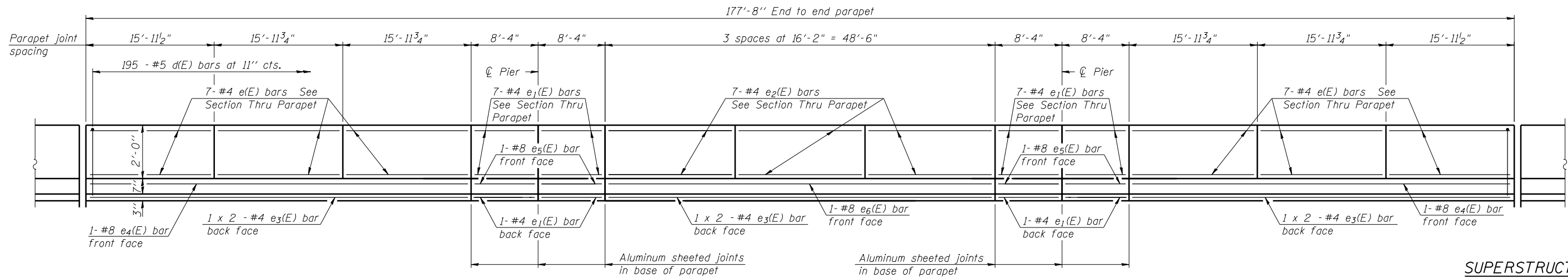
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	26
CONTRACT NO. 78231				



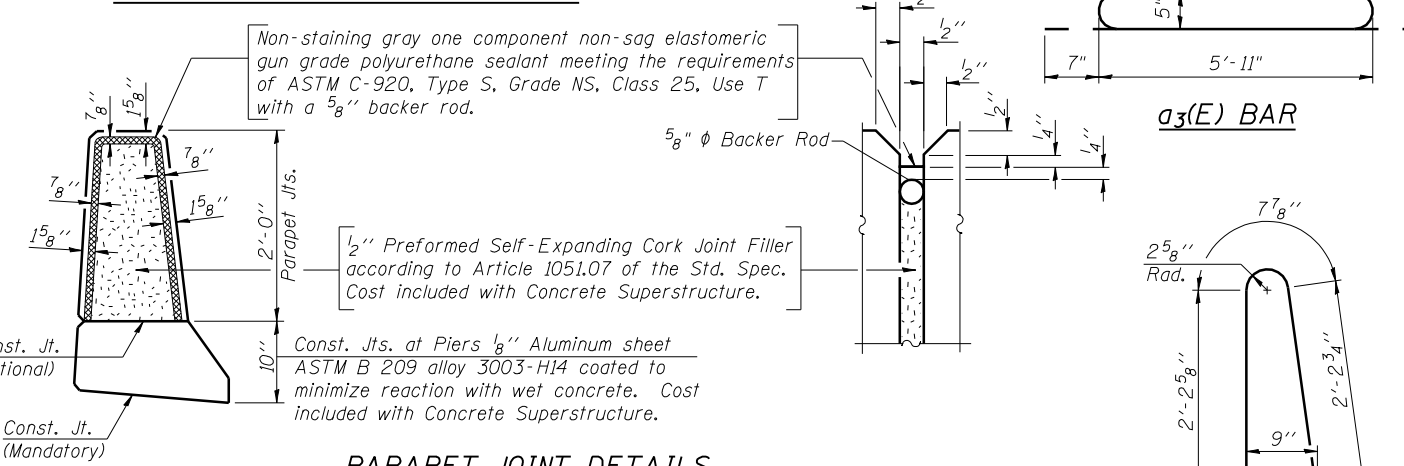
USER NAME = kah	DESIGNED - SHL	02/13	REVISED -
ESCA PROJECT NO. 988.14	CHECKED - RDP	02/13	REVISED -
PLOT DATE = 7/3/2014	DRAWN - DWH	02/13	REVISED -
8:38:37 AM	CHECKED - SHL	05/13	REVISED -

SHEET NO. 7 OF 22 SHEETS

ILLINOIS FED. AID PROJECT AID



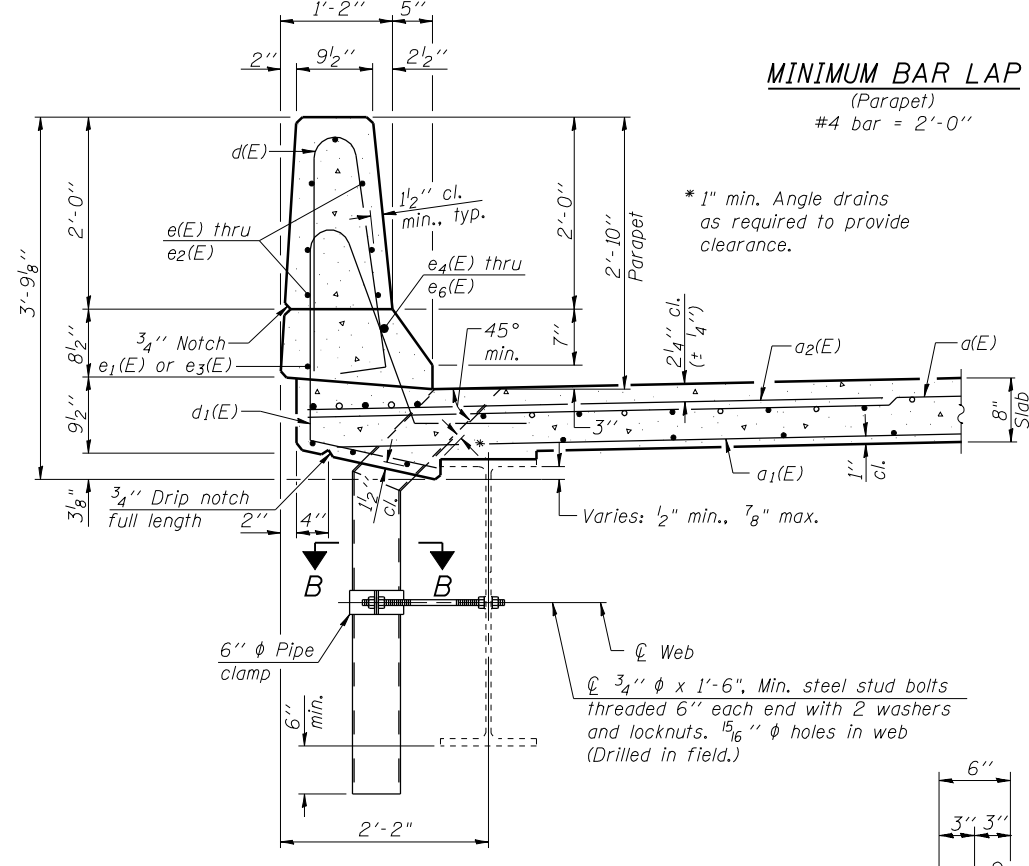
INSIDE ELEVATION OF PARAPET



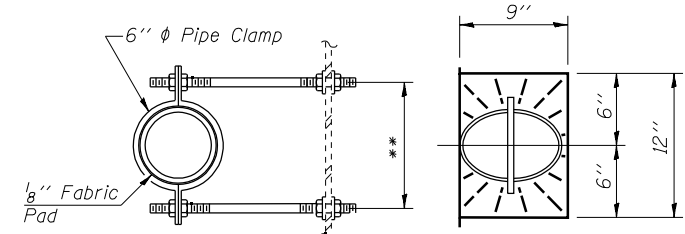
PARAPET JOINT DETAILS

Notes:
 Drains shall be located clear of all diaphragms.
 The exterior surfaces of the floor drains shall be painted with the finish coat as specified in Section 506 of the Standard Specifications. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings Spec. SSPC-SPI prior to painting.
 Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.

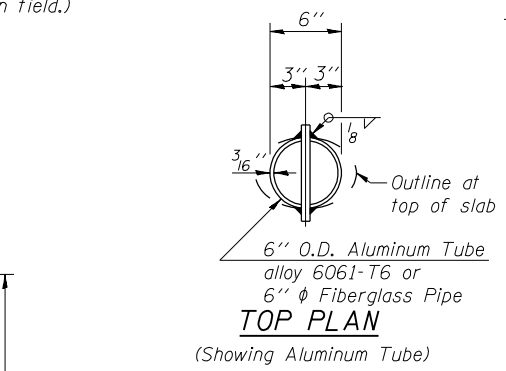


SECTION THRU PARAPET

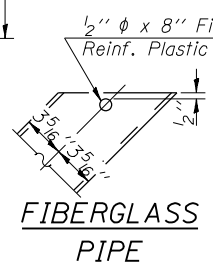


SECTION B-B
 ** Dimension as required by Pipe Clamp

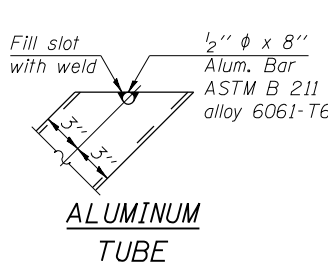
TOP PLAN



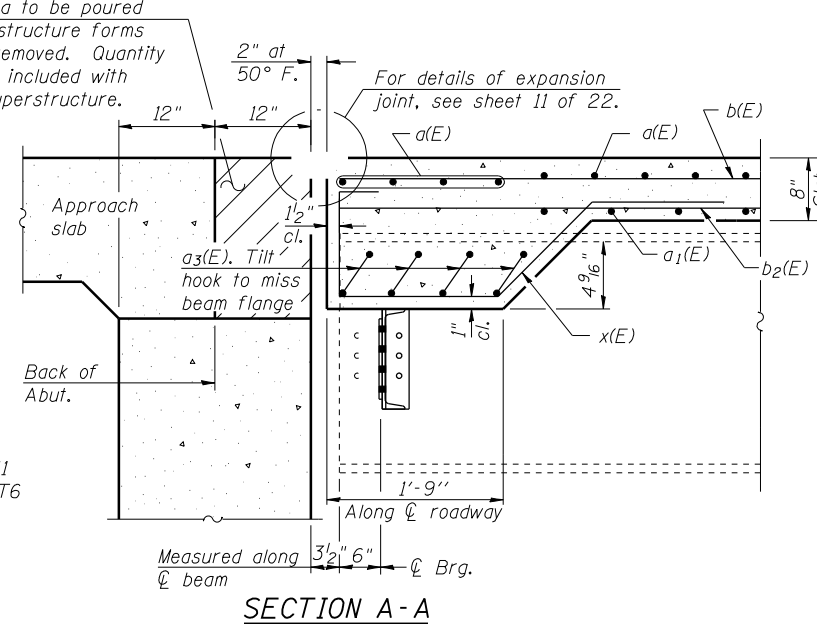
TOP PLAN
 (Showing Aluminum Tube)



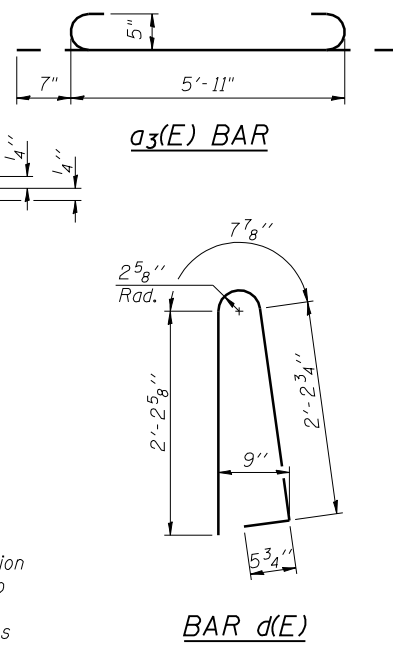
FIBERGLASS PIPE



ALUMINUM TUBE

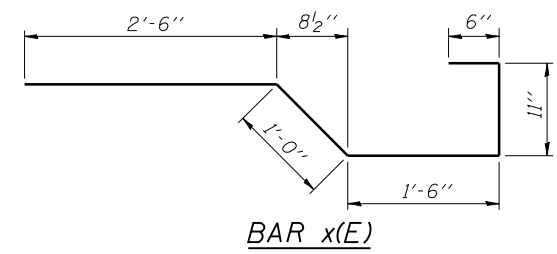


SECTION A-A



BAR d(E)

BAR d1(E)



BAR x(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	240	#5	34'-6"	—
a1(E)	209	#5	34'-0"	—
a2(E)	240	#6	6'-6"	—
a3(E)	40	#5	7'-1"	U
b(E)	228	#5	31'-9"	—
b1(E)	70	#6	38'-11"	—
b2(E)	217	#5	27'-7"	—
d(E)	390	#5	5'-7"	L
d1(E)	390	#5	7'-0"	L
e(E)	84	#4	15'-8"	—
e1(E)	64	#4	8'-0"	—
e2(E)	42	#4	15'-10"	—
e3(E)	12	#4	25'-2"	—
e4(E)	4	#8	47'-8"	—
e5(E)	8	#8	8'-1"	—
e6(E)	2	#8	48'-3"	—
x(E)	60	#5	6'-5"	—
Concrete Superstructure			Cu. Yd.	207.8
Reinforcement Bars, Epoxy Coated			Pound	44900

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



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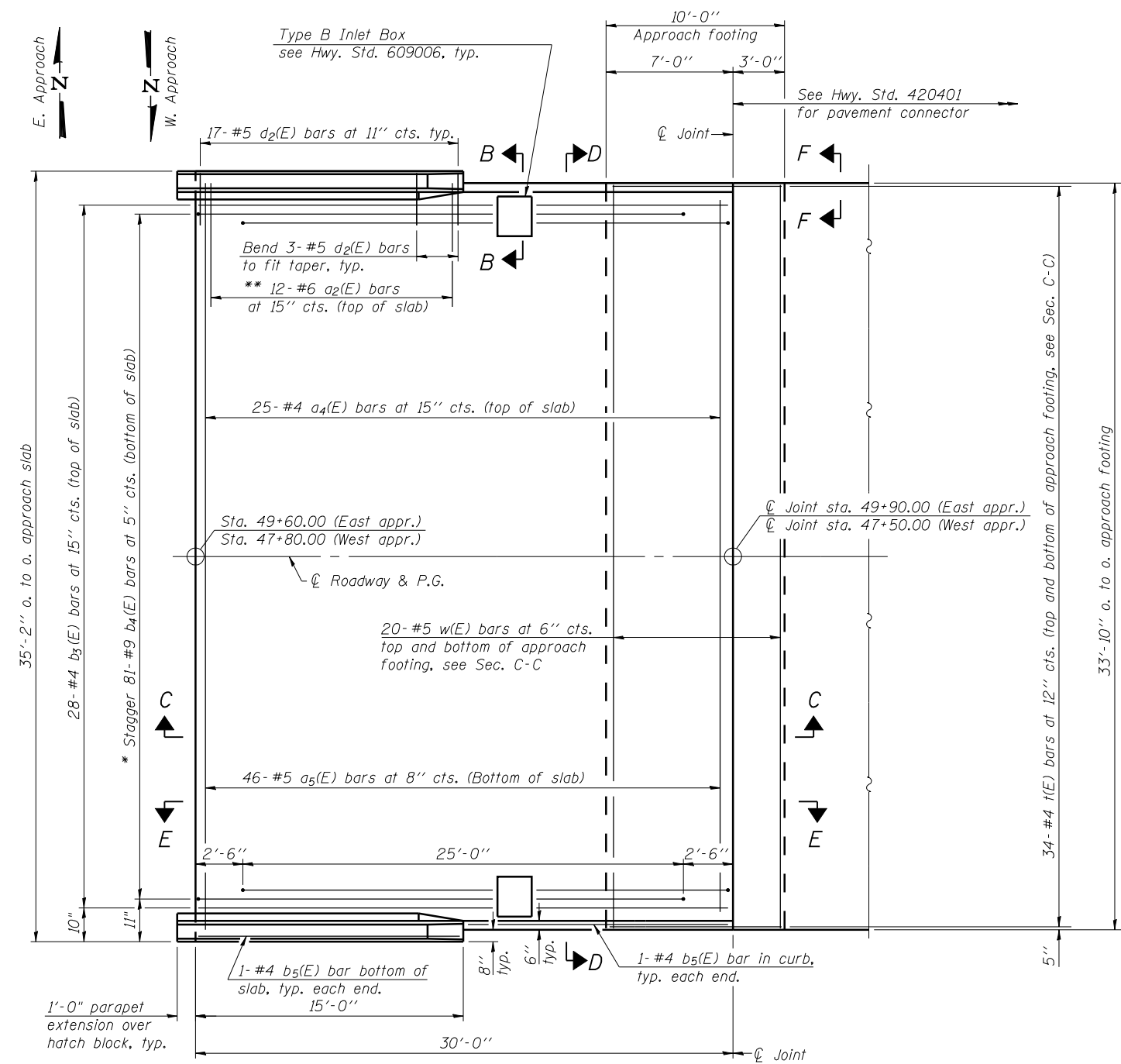
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS STRUCTURE NO. 097-0027

SHEET NO. 8 OF 22 SHEETS

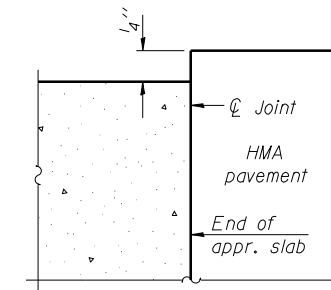
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	27
ILLINOIS FED. AID PROJECT AID			CONTRACT NO. 78231	

Notes:
 See sheet 10 of 22 for Sections C-C & D-D and View E-E.
 $a_2(E)$, $a_4(E)$ and $a_5(E)$ bar spacings measured along C.R.
 Order all bars full length. Cut bars in field to clear inlet boxes.



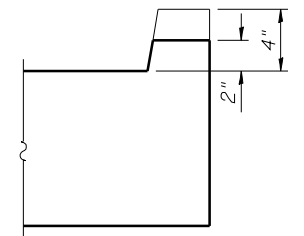
PLAN

* Tilt #9 $b_4(E)$ bars as required to maintain clearance.
 ** Space between $a_4(E)$ bars, typ. ea. parapet.

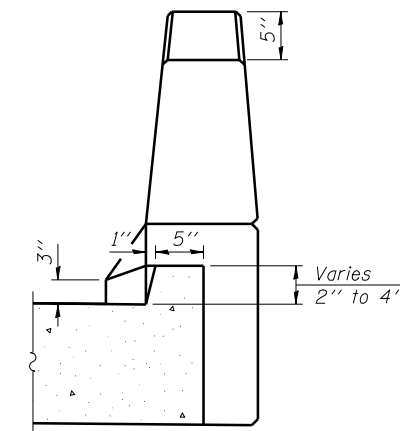


FLEXIBLE PAVEMENT

DETAIL A



VIEW F-F



VIEW B-B

(Sheet 1 of 2)



USER NAME = kah	DESIGNED - SHL 02/13	REVISED -
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	DRAWN - DWH 02/13	REVISED -
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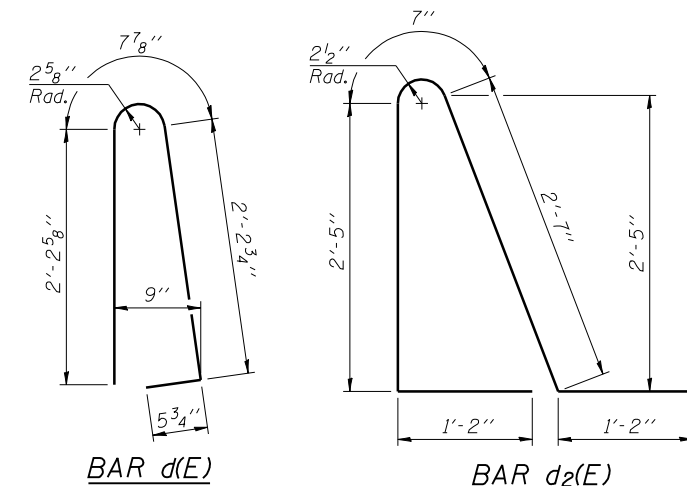
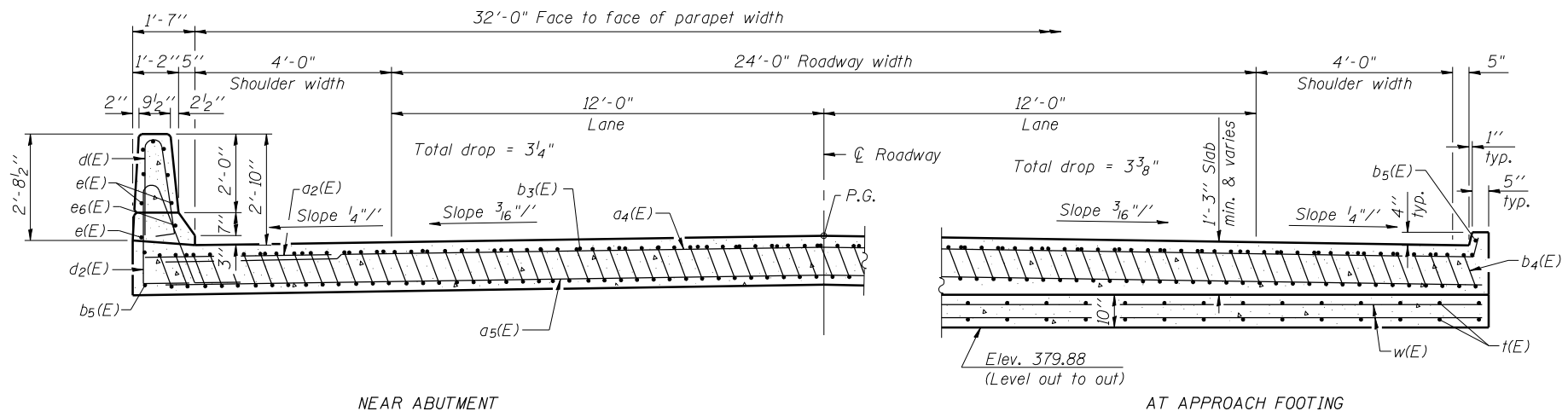
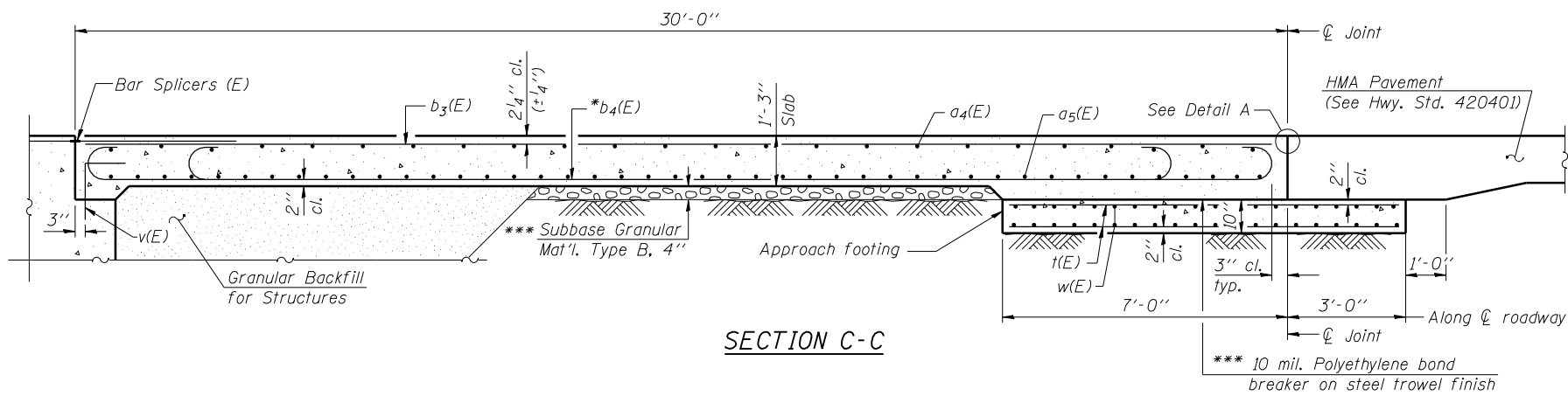
BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 097-0027

SHEET NO. 9 OF 22 SHEETS

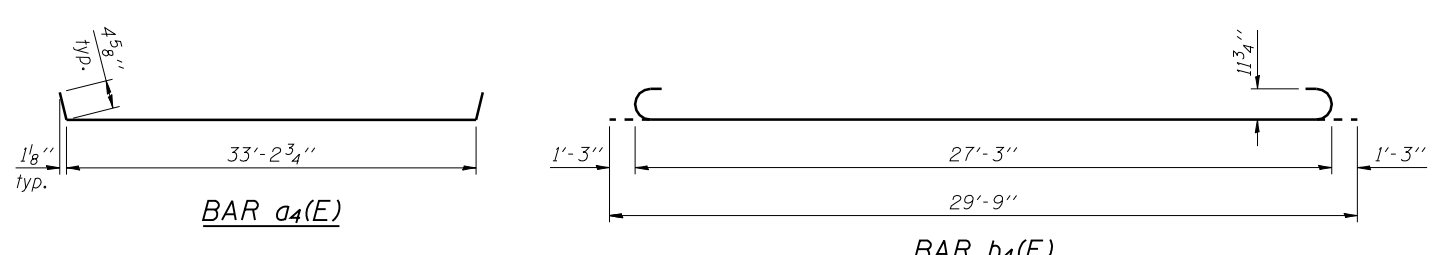
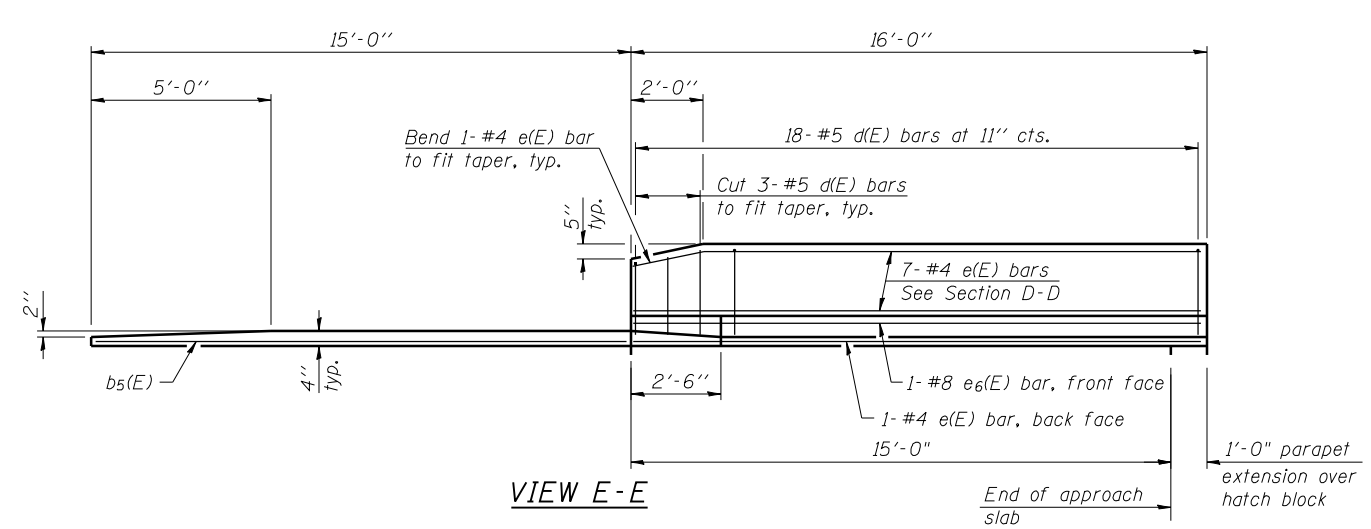
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	28
CONTRACT NO. 78231				

ILLINOIS FED. AID PROJECT AID

Notes:
 See sheet 9 of 22 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 18 of 22.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet 20 of 22.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 22.
 For additional parapet details, see sheet 8 of 22.



* Tilt #9 b4(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	48	#6	6'-6"	—
a4(E)	50	#4	34'-0"	—
a5(E)	92	#5	33'-6"	—
b3(E)	56	#4	29'-8"	—
b4(E)	162	#9	29'-9"	—
b5(E)	8	#4	14'-8"	—
d(E)	72	#5	5'-7"	—
d2(E)	68	#5	7'-11"	—
e(E)	32	#4	15'-8"	—
e6(E)	4	#8	15'-8"	—
t(E)	136	#4	9'-8"	—
w(E)	80	#5	33'-6"	—
Concrete Structures			Cu. Yd.	20.9
Concrete Superstructure			Cu. Yd.	108.7
Reinforcement Bars, Epoxy Coated			Pound	27550

(Sheet 2 of 2)



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PLOT DATE = 7/3/2014	DRAWN - DWH	02/13	REVISED -
8:39:03 AM	CHECKED - SHL	05/13	REVISED -

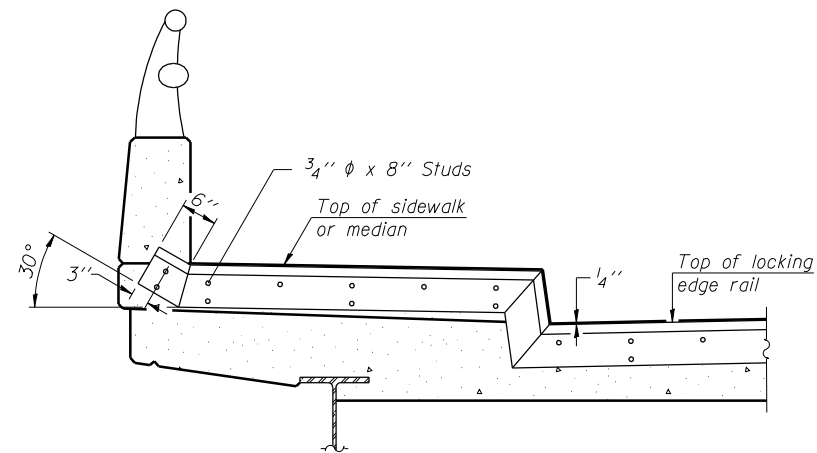
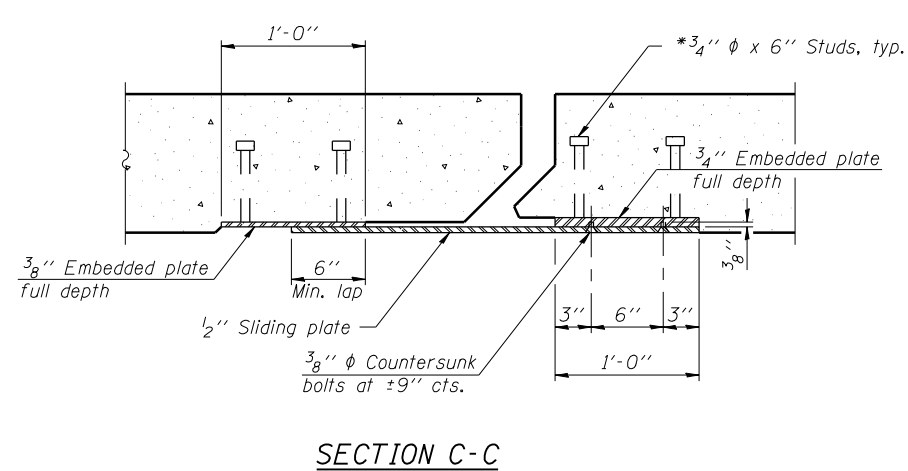
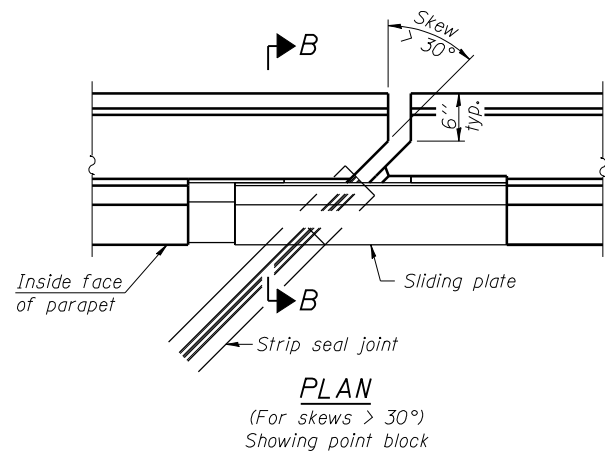
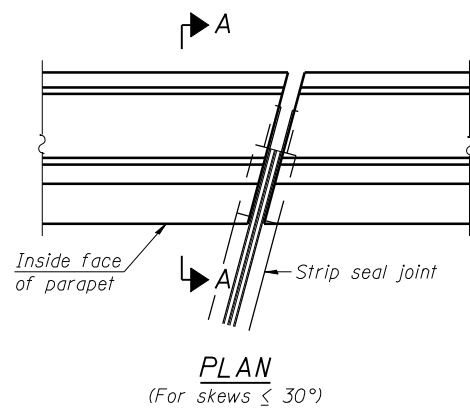
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 097-0027**

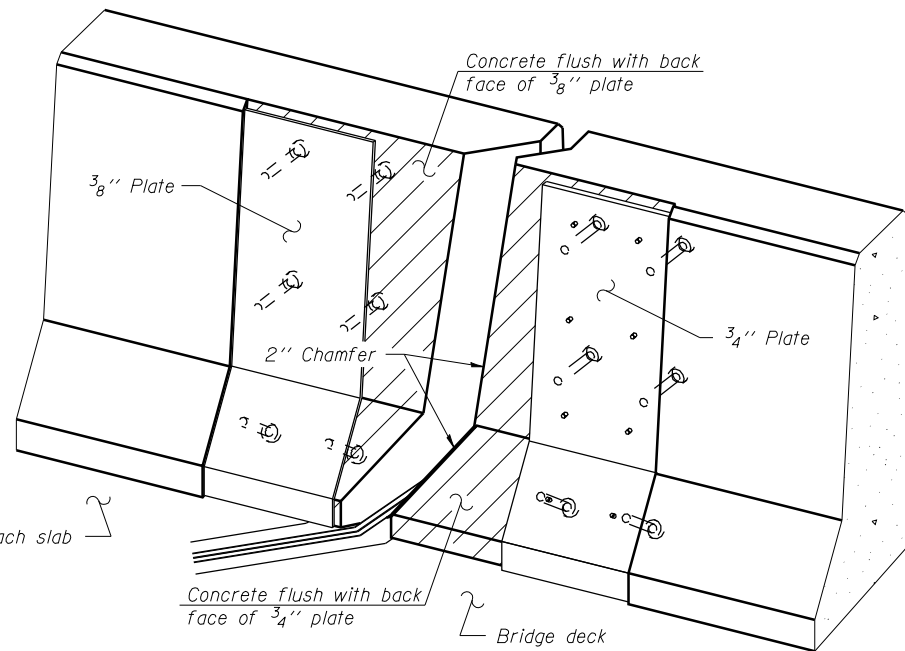
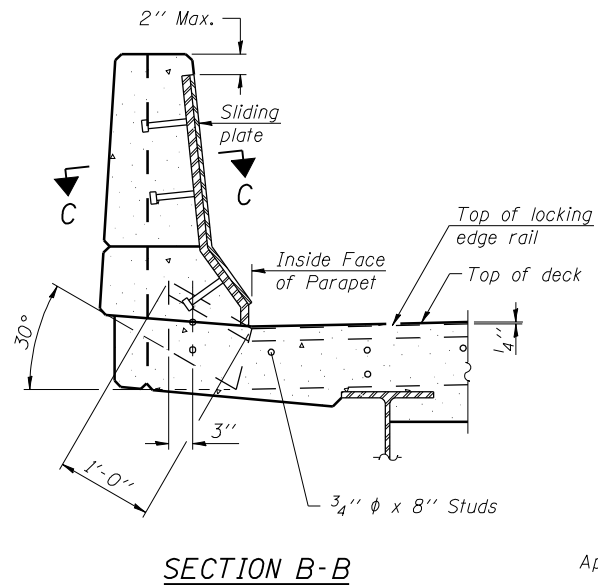
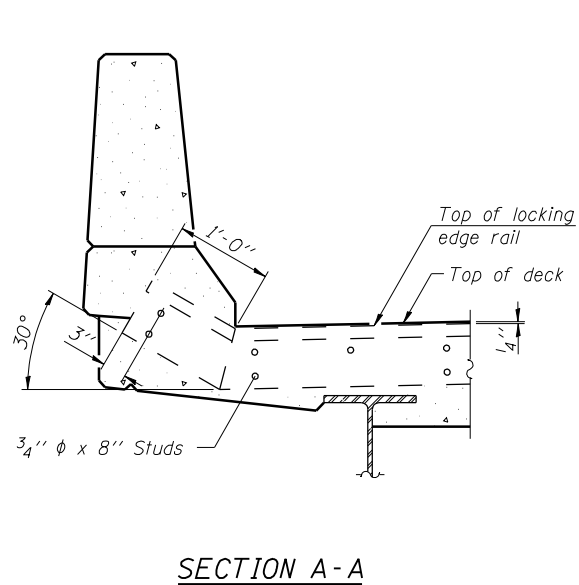
SHEET NO. 10 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	29
CONTRACT NO. 78231				

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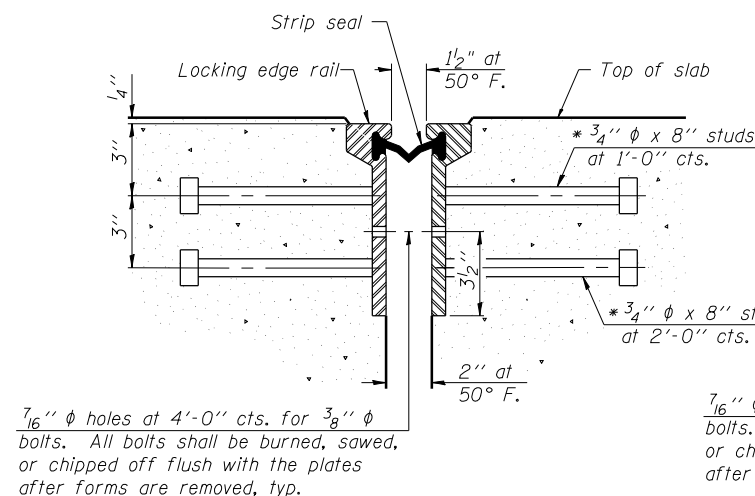


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN
 Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

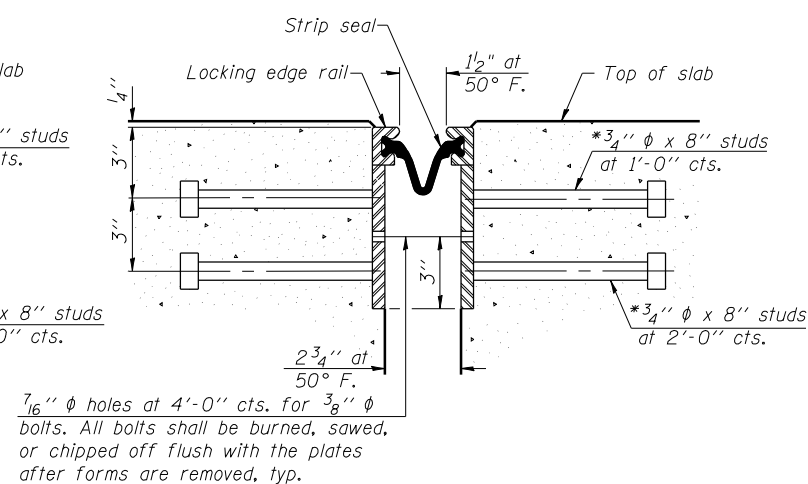


TRIMETRIC VIEW (Showing back plates only)

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.



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.

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	68

EJ-SSJ

1-27-12



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DESIGNED - SHL 02/13	REVISED -
CHECKED - RDP 02/13	REVISED -
DRAWN - DWH 02/13	REVISED -
CHECKED - SHL 05/13	REVISED -

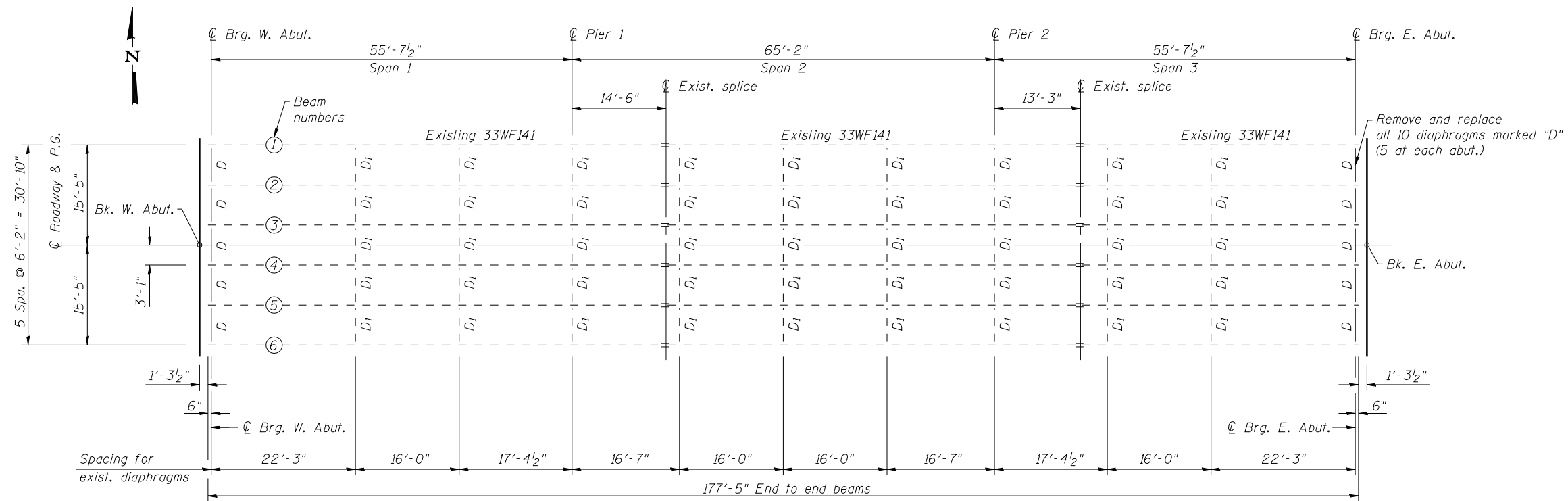
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL STRUCTURE NO. 097-0027

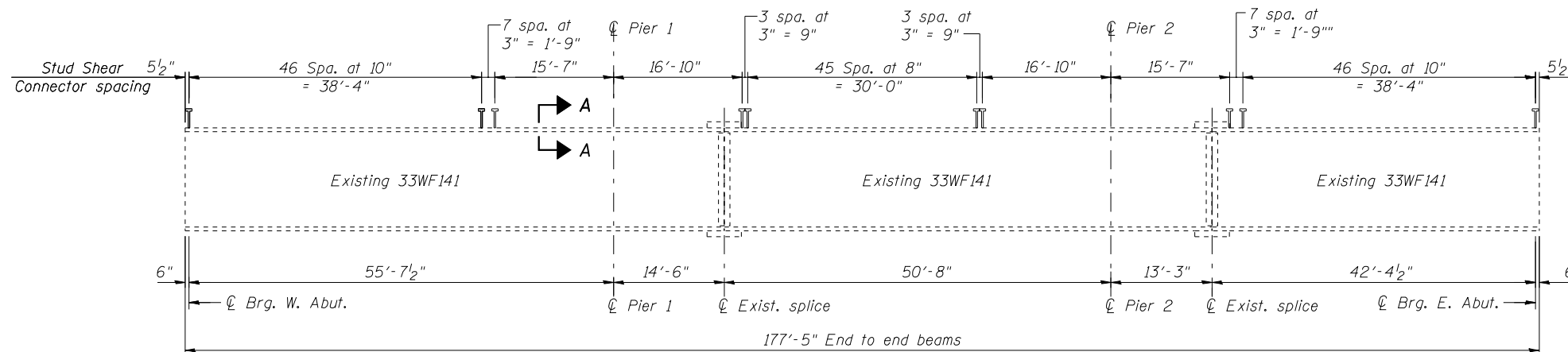
SHEET NO. 11 OF 22 SHEETS

F.A.P. RTE. 877	SECTION 100B-1	COUNTY WHITE	TOTAL SHEETS 54	SHEET NO. 30
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT AID				

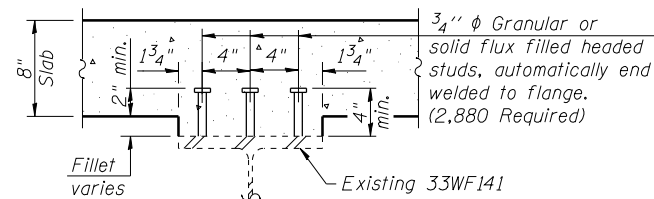
Notes:
See sheet 13 of 22 for steel details.



STEEL FRAMING PLAN



BEAM ELEVATION



SECTION A-A



USER NAME = kah	DESIGNED - SHL 02/13	REVISED -
ESCA PROJECT NO. 988.14	CHECKED - RDP 02/13	REVISED -
	DRAWN - DWH 02/13	REVISED -
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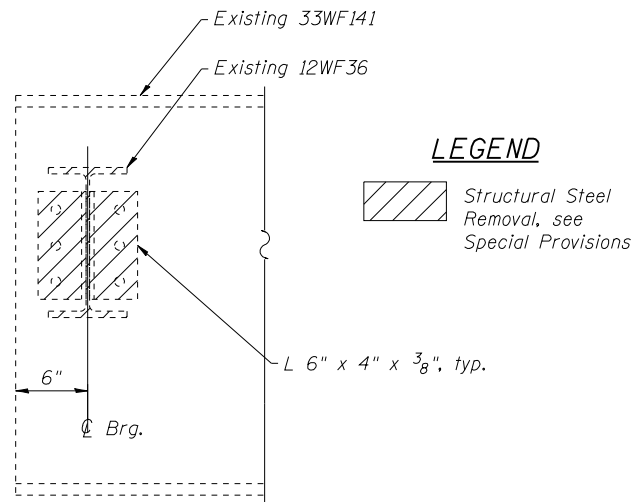
**STATE OF ILLINOIS
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**STEEL FRAMING PLAN
STRUCTURE NO. 097-0027**

SHEET NO. 12 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	31
CONTRACT NO. 78231				

ILLINOIS FED. AID PROJECT AID



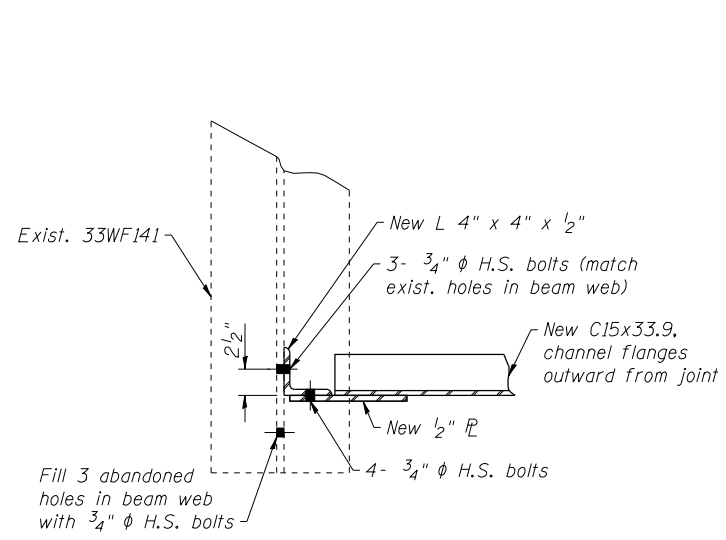
INTERIOR BEAM MOMENT TABLE			
	0.4 Sp. 1 or 0.6 Sp. 3	Piers 1 & 2	0.5 Sp. 2
I_s	(in ⁴)	7450	7450
$I_c(n)$	(in ⁴)	19,200	-
$I_c(3n)$	(in ⁴)	13,990	-
S_s	(in ³)	448	448
$S_c(n)$	(in ³)	648	-
$S_c(3n)$	(in ³)	584	-
Z	(in ³)	-	514
Q	(k/')	0.793	0.943
M_Q	(k)	178.5	345.1
s_Q	(k/')	0.150	-
M_{sQ}	(k)	33.8	-
M_L	(k)	326.6	259.5
M_I	(k)	90.4	70.0
$5/3 [M_L + M_I]$	(k)	695.0	549.2
M_o	(k)	1179.5	1162.5
M_u	(k)	2558.0	1542.0
$f_s Q$ (non-comp)	(ksi)	4.78	9.24
$f_s Q$ (comp)	(ksi)	0.69	-
$f_s 5/3 (M_L + M_I)$	(ksi)	12.87	14.71
f_s (Overload)	(ksi)	18.34	23.95
f_s (Total)	(ksi)	-	-
VR	(k)	45.7	-

* Compact section
** Braced non-compact and partially braced section

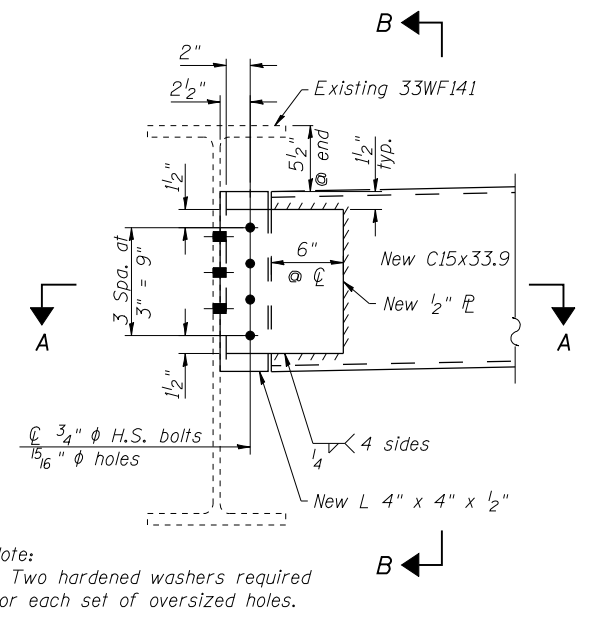
INTERIOR BEAM REACTION TABLE			
		Abut.	Pier
R_Q	(k)	20.0	63.2
R_L	(k)	32.1	41.2
R_I	(k)	8.9	11.2
R_{Total}	(k)	61.0	115.6

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in⁴ and in³).
 $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in⁴ and in³).
 $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in⁴ and in³).
 Z : Plastic Section Modulus of the steel section in non-composite areas (in³).
 Q : Un-factored non-composite dead load (kips/ft.).
 M_Q : Un-factored moment due to non-composite dead load (kip-ft.).
 s_Q : Un-factored long-term composite (superimposed) dead load (kips/ft.).
 M_{sQ} : Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
 M_L : Un-factored live load moment (kip-ft.).
 M_I : Un-factored moment due to impact (kip-ft.).
 M_o : Factored design moment (kip-ft.).
 $1.3 [M_Q + M_{sQ} + 5/3 (M_L + M_I)]$
 M_u : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
 f_s (Overload): Sum of stresses as computed from the moments below (ksi).
 $M_Q + M_{sQ} + 5/3 (M_L + M_I)$
 f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $1.3 [M_Q + M_{sQ} + 5/3 (M_L + M_I)]$
 VR : Maximum $L + I$ impact shear range within the composite portion of the span for stud shear connector design (kips).

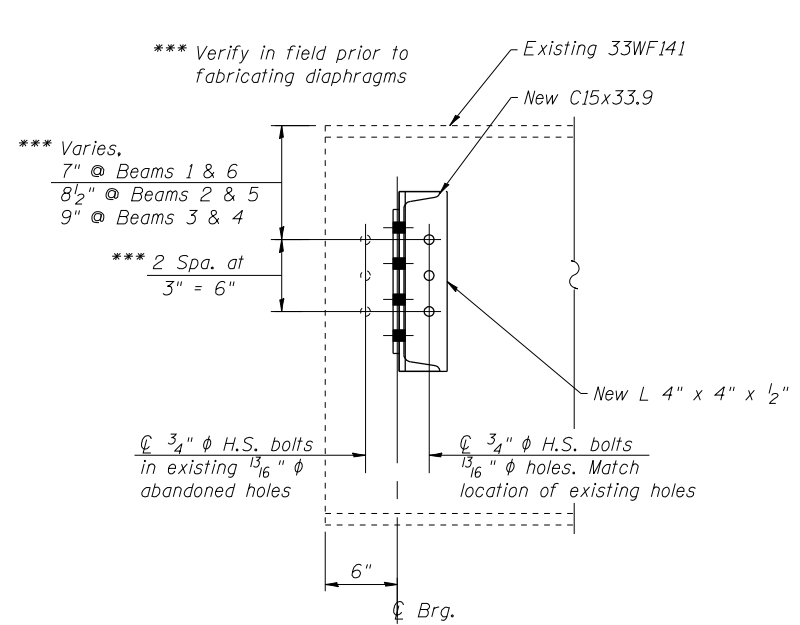
REMOVAL OF EXISTING END DIAPHRAGM D



SECTION A-A



PROPOSED END DIAPHRAGM D
(10 Required)



VIEW B-B



USER NAME = kah	DESIGNED - SHL	02/13	REVISED -
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	DRAWN - DWH	02/13	REVISED -
PLOT DATE = 7/3/2014 8:39:24 AM	CHECKED - SHL	05/13	REVISED -

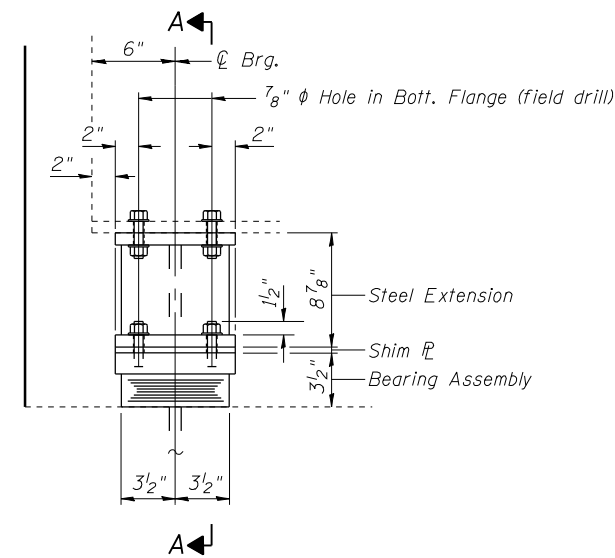
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL DETAILS
STRUCTURE NO. 097-0027

SHEET NO. 13 OF 22 SHEETS

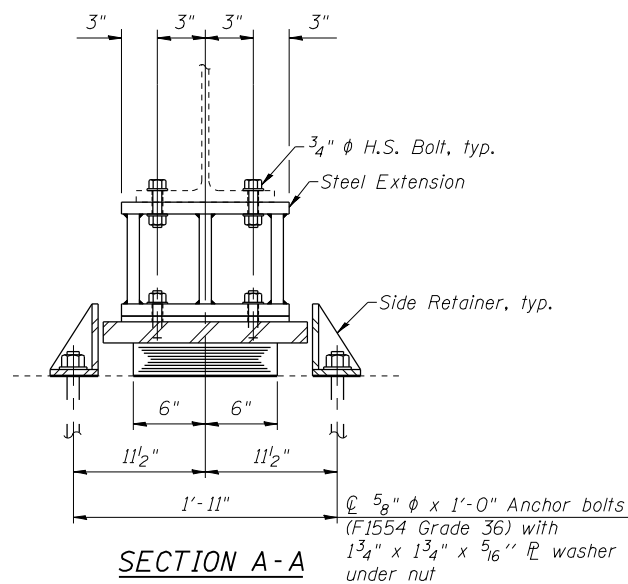
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	32
CONTRACT NO. 78231				

ILLINOIS FED. AID PROJECT AID

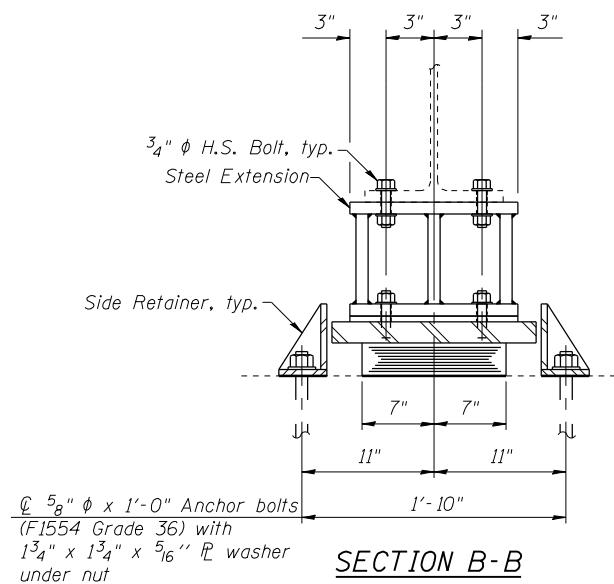


ELEVATION AT W. ABUT.

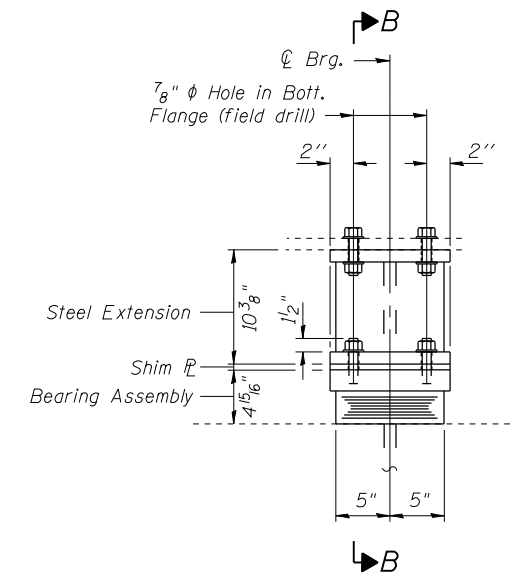
TYPE I ELASTOMERIC EXP. BRG.



SECTION A-A

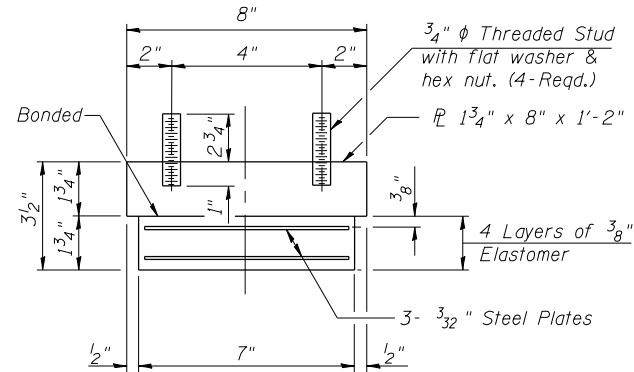


SECTION B-B



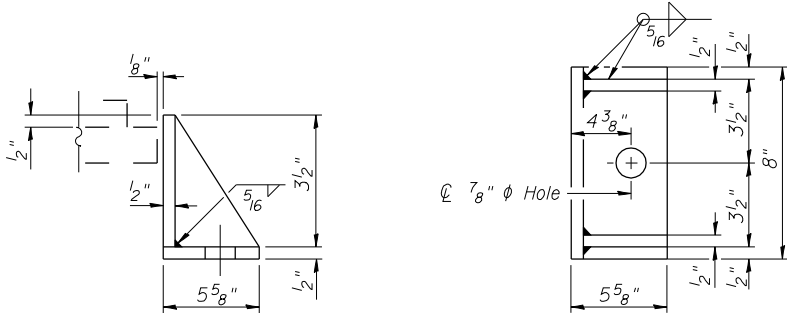
ELEVATION AT PIER 2

TYPE I ELASTOMERIC EXP. BRG.



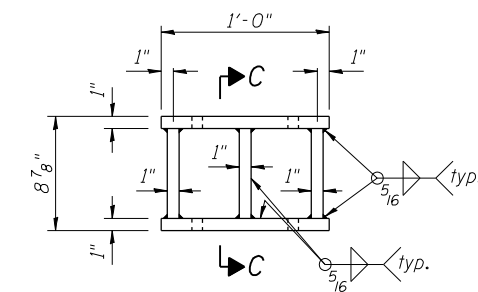
BEARING ASSEMBLY AT W. ABUT.

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



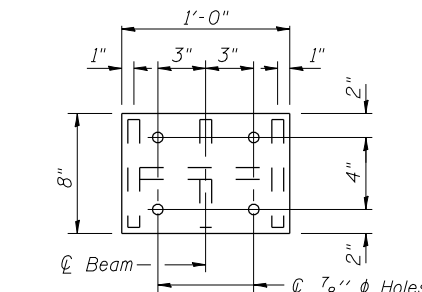
SIDE RETAINER AT W. ABUT.

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



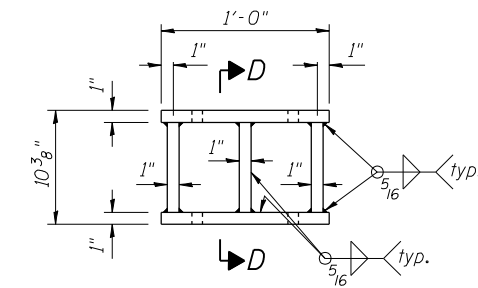
ELEVATION STEEL EXTENSION

SECTION C-C



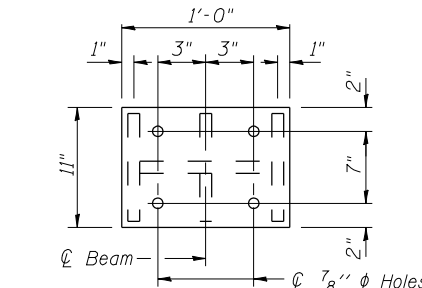
PLAN STEEL EXTENSION

WEST ABUTMENT STEEL EXTENSION



ELEVATION STEEL EXTENSION

SECTION D-D



PLAN STEEL EXTENSION

PIER 2 STEEL EXTENSION

Notes:

Steel extensions are to be paid for as Furnishing and Erecting Structural Steel. Prior to ordering any steel extension material, the Contractor shall verify in the field all bearing height and steel extension dimensions.

Two hardened washers required for each set of oversized holes.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers may be installed in holes drilled before or after members are in place.

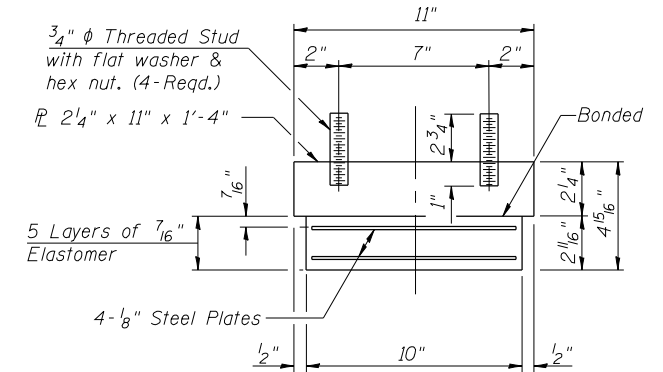
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

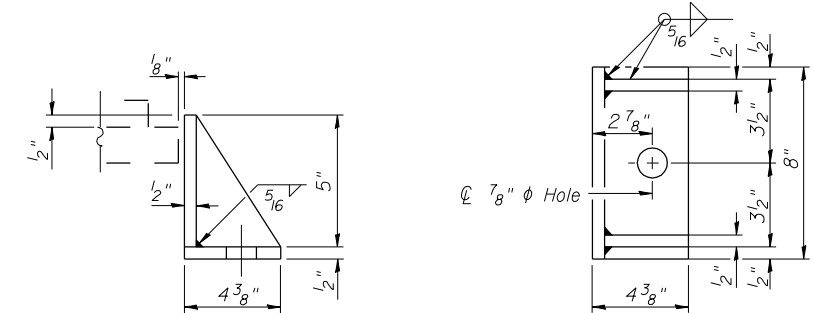
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

See sheet 15 of 22 for details of jacking and removing existing bearings.



BEARING ASSEMBLY AT PIER 2

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



SIDE RETAINER AT PIER 2

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, 5/8"	Each	24



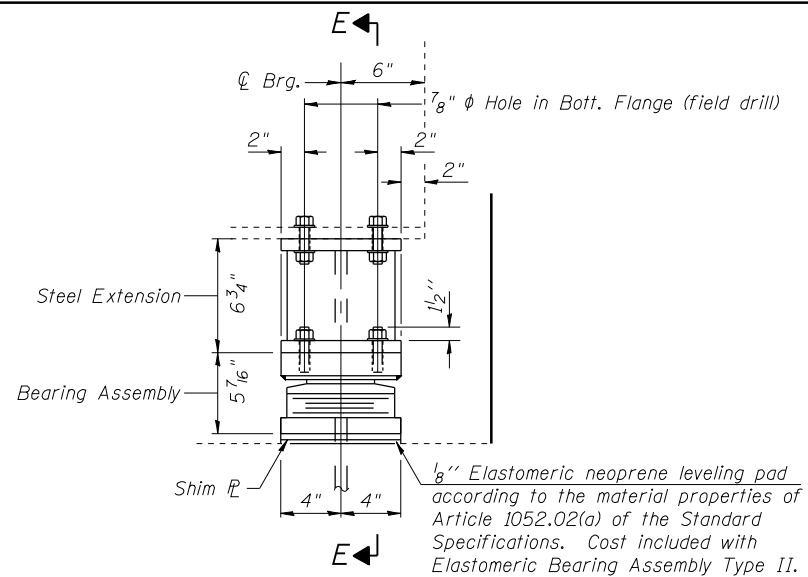
USER NAME = kah	DESIGNED - SHL	03/13	REVISED -
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BEARING DETAILS
STRUCTURE NO. 097-0027

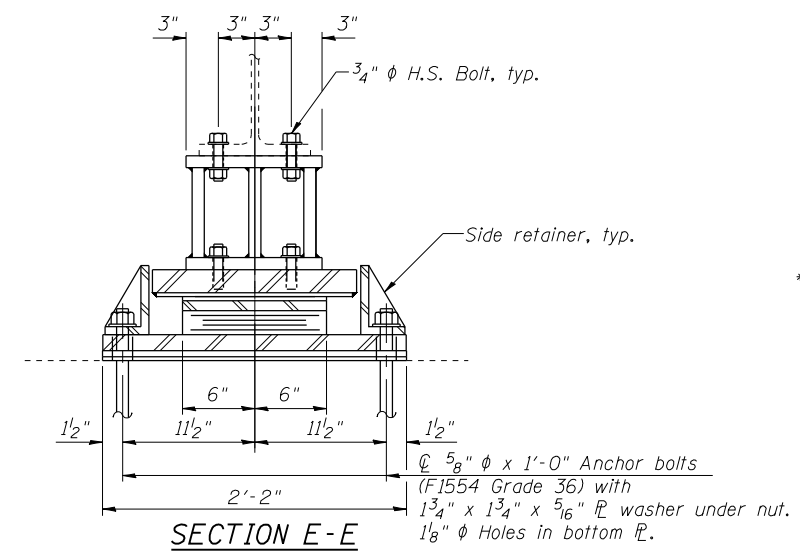
SHEET NO. 14 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	33
ILLINOIS FED. AID PROJECT AID			CONTRACT NO. 78231	

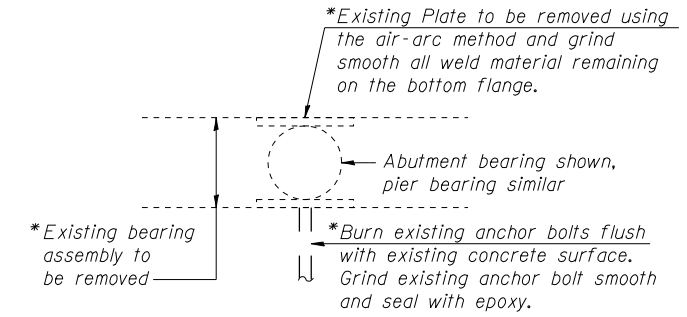


ELEVATION AT E. ABUT.

TYPE II ELASTOMERIC EXP. BRG.



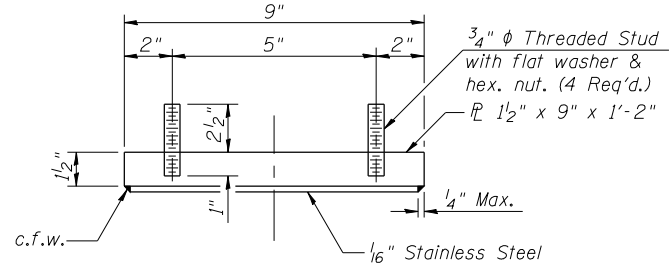
SECTION E-E



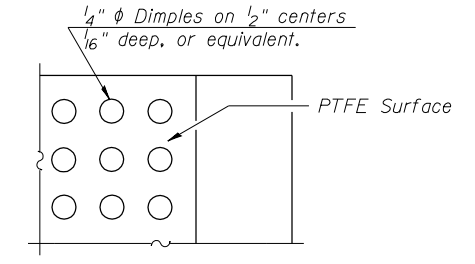
REMOVE EXISTING BEARING

- * Existing bearing assembly to be removed
- * Existing Plate to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.
- * Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

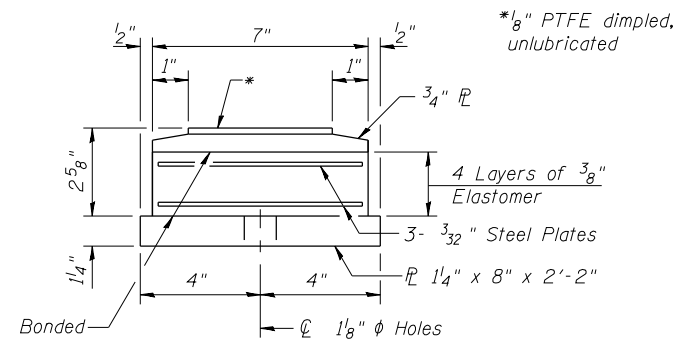
Notes:
 Steel extensions are to be paid for as Furnishing and Erecting Structural Steel. Prior to ordering any steel extension material, the Contractor shall verify in the field all bearing height and steel extension dimensions.
 Two hardened washers required for each set of oversized holes.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in 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 and other steel members required for the elastomeric bearing assembly 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.
 Two 1/8 inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.
 The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.



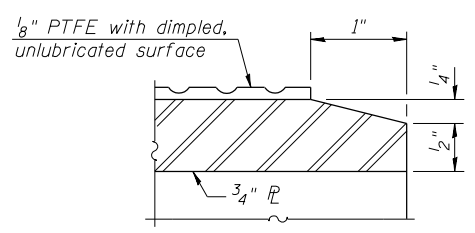
TOP BEARING ASSEMBLY AT E. ABUT.



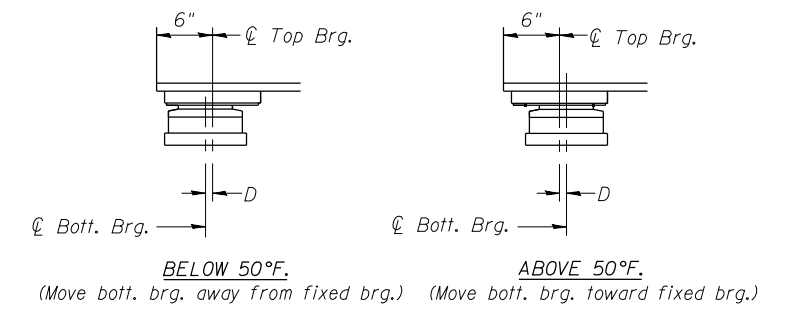
PLAN-PTFE SURFACE



BOTTOM BEARING ASSEMBLY AT E. ABUT.

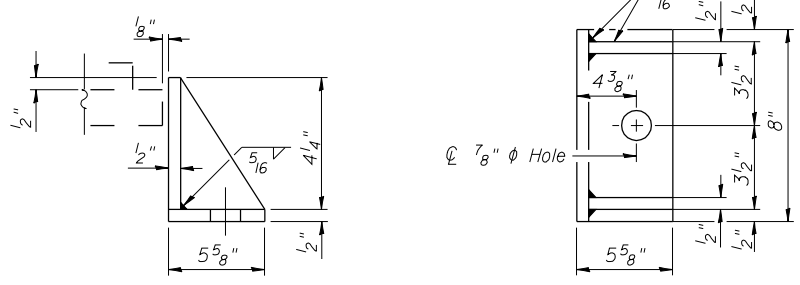


SECTION THRU PTFE



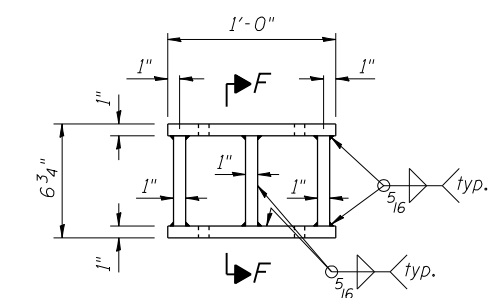
SETTING ANCHOR BOLTS AT E. ABUT. EXP. BRG.

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

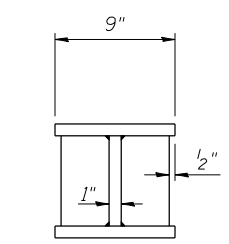


SIDE RETAINER AT E. ABUT.

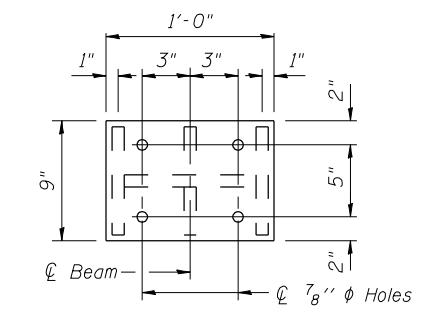
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



ELEVATION STEEL EXTENSION



SECTION F-F



PLAN STEEL EXTENSION

EAST ABUTMENT STEEL EXTENSION

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	6
Anchor Bolts, 5/8"	Each	12
Jack and Remove Existing Bearings	Each	18



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
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS
 STRUCTURE NO. 097-0027**

SHEET NO. 15 OF 22 SHEETS

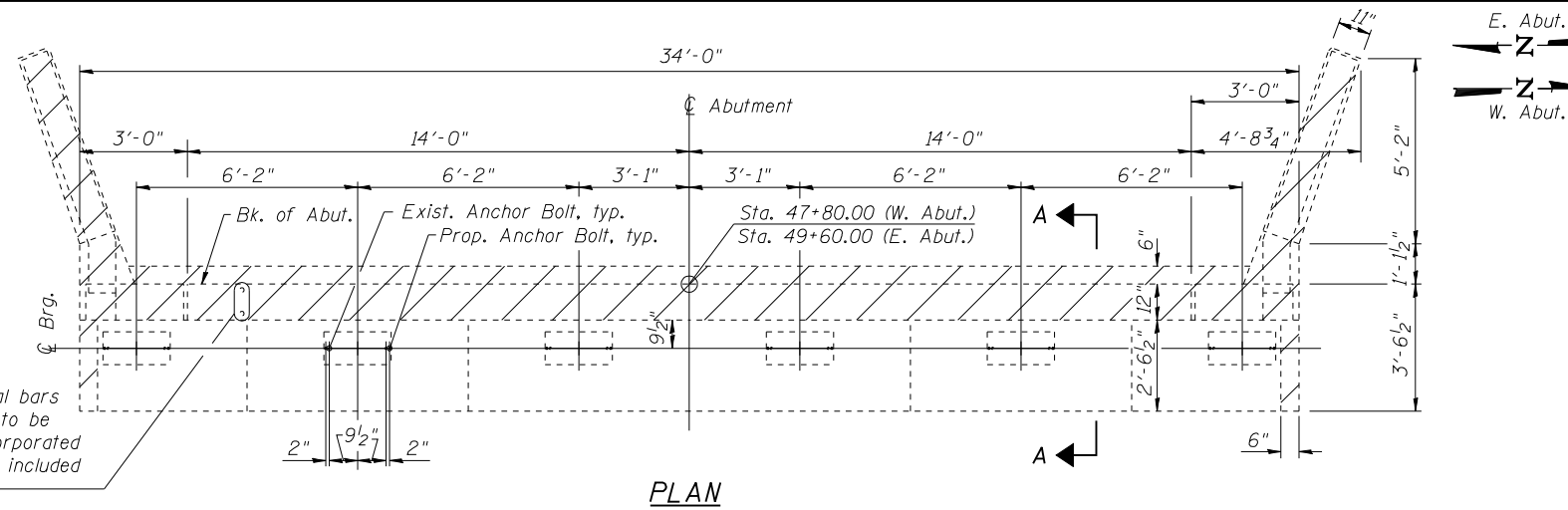
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	34
ILLINOIS FED. AID PROJECT AID			CONTRACT NO. 78231	

LEGEND

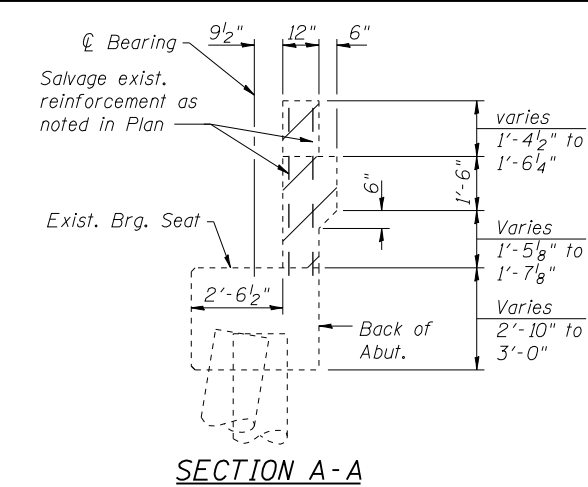
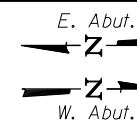
-  Concrete Removal
-  Epoxy Crack Injection
-  Hairline crack - not to be sealed

Note:
Crack widths are $\frac{1}{8}$ " \pm $\frac{1}{16}$ " unless noted otherwise.

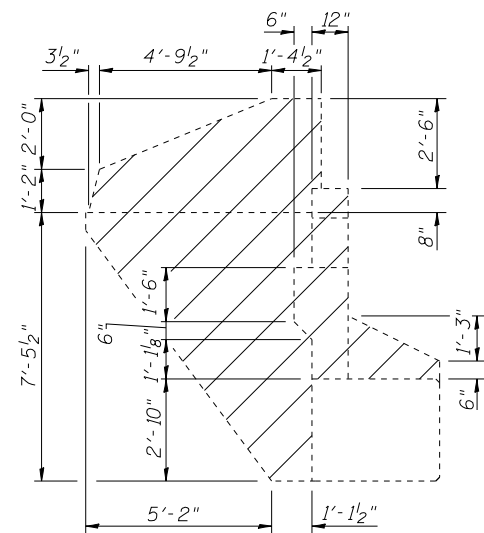
± 28 Existing straight vertical bars each face to remain. Bars to be cleaned, straightened, & incorporated into new construction. Cost included with Concrete Removal.



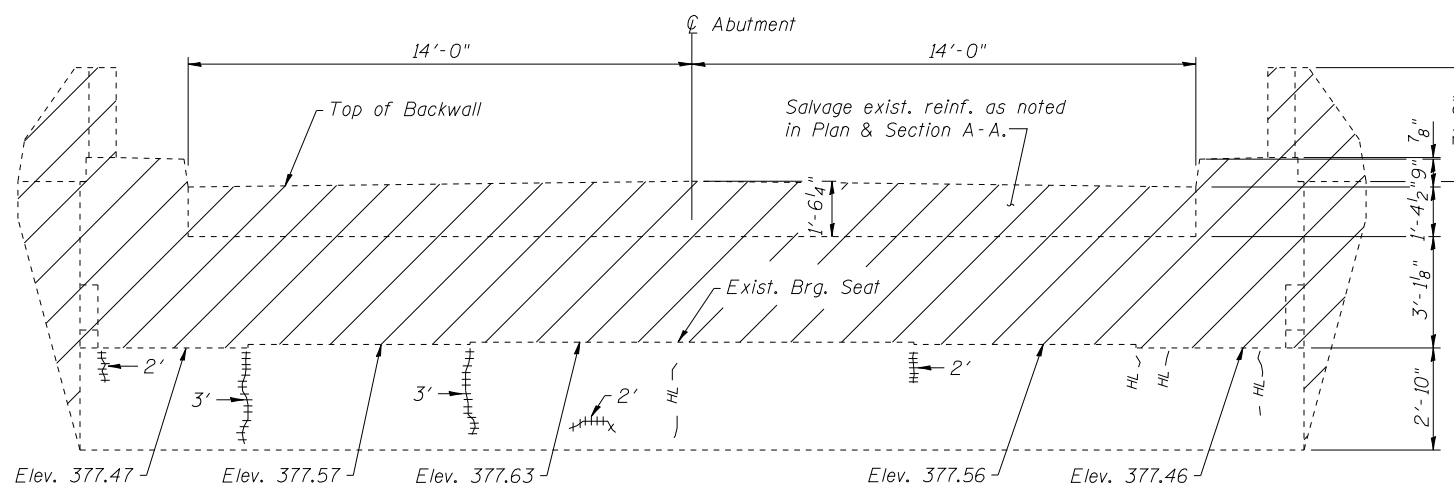
PLAN



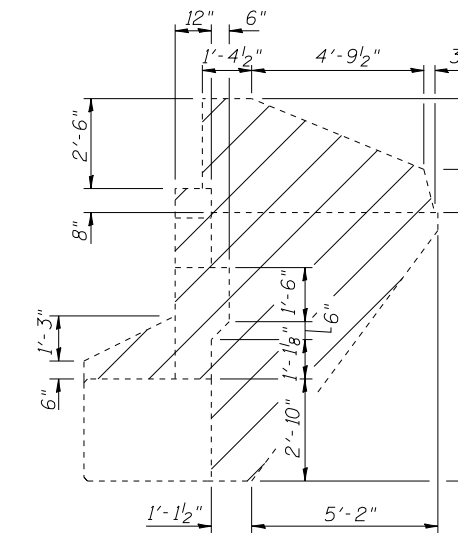
SECTION A-A



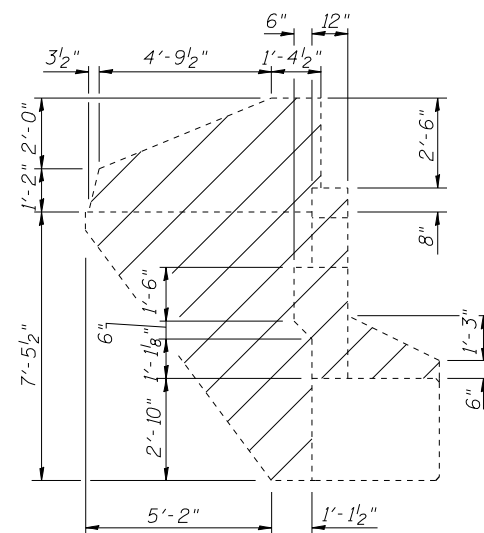
SOUTH END



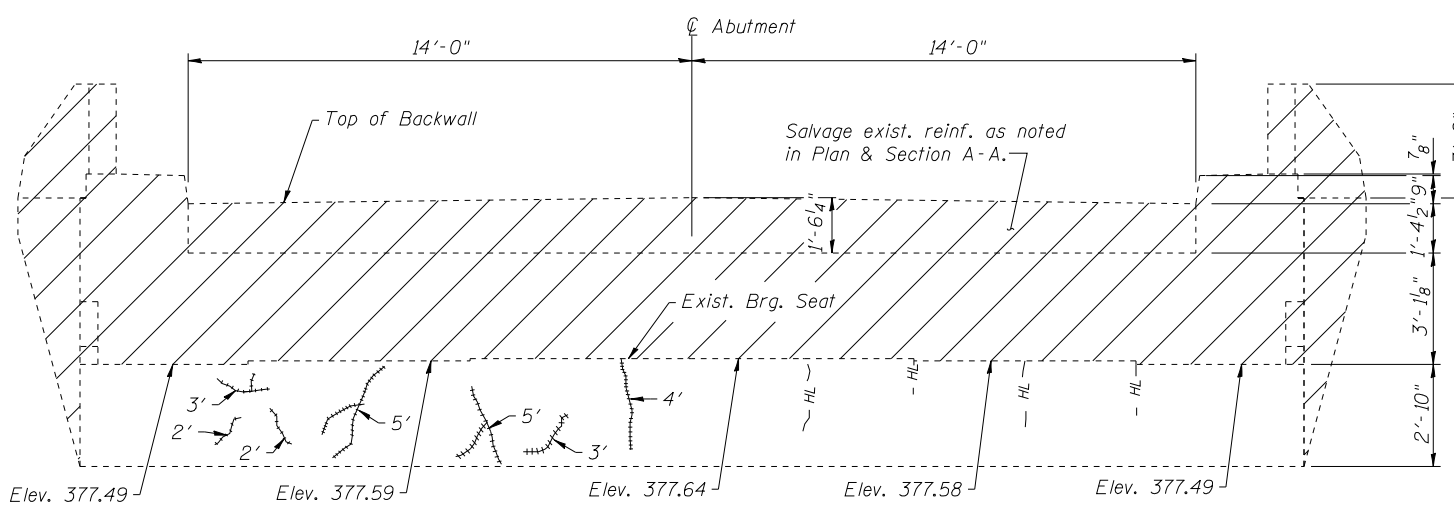
ELEVATION WEST ABUTMENT
(Looking West)



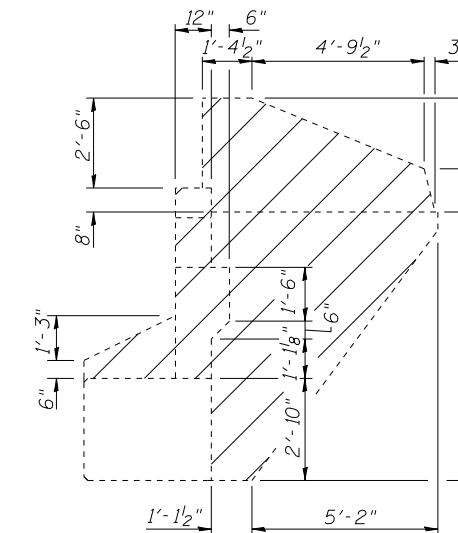
NORTH END



NORTH END



ELEVATION EAST ABUTMENT
(Looking East)



SOUTH END

WEST ABUTMENT BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	9.9
Epoxy Crack Injection	Foot	12

EAST ABUTMENT BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	9.9
Epoxy Crack Injection	Foot	24



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DEPARTMENT OF TRANSPORTATION

ABUTMENT REMOVAL AND REPAIRS
STRUCTURE NO. 097-0027

SHEET NO. 16 OF 22 SHEETS

F.A.P. RTE. 877	SECTION 100B-1	COUNTY WHITE	TOTAL SHEETS 54	SHEET NO. 35
ILLINOIS FED. AID PROJECT AID			CONTRACT NO. 78231	

Notes:
 See sheet 18 of 22 for Sections A-A, B-B & C-C, bar details, and Bill of Material.
 For details of Bar Splicers, see sheet 20 of 22.
 Hatched area to be poured after superstructure falsework has been removed. Quantity of concrete included with Concrete Superstructure.
 Concrete Sealer shall be applied to all exposed surfaces of new concrete backwalls.

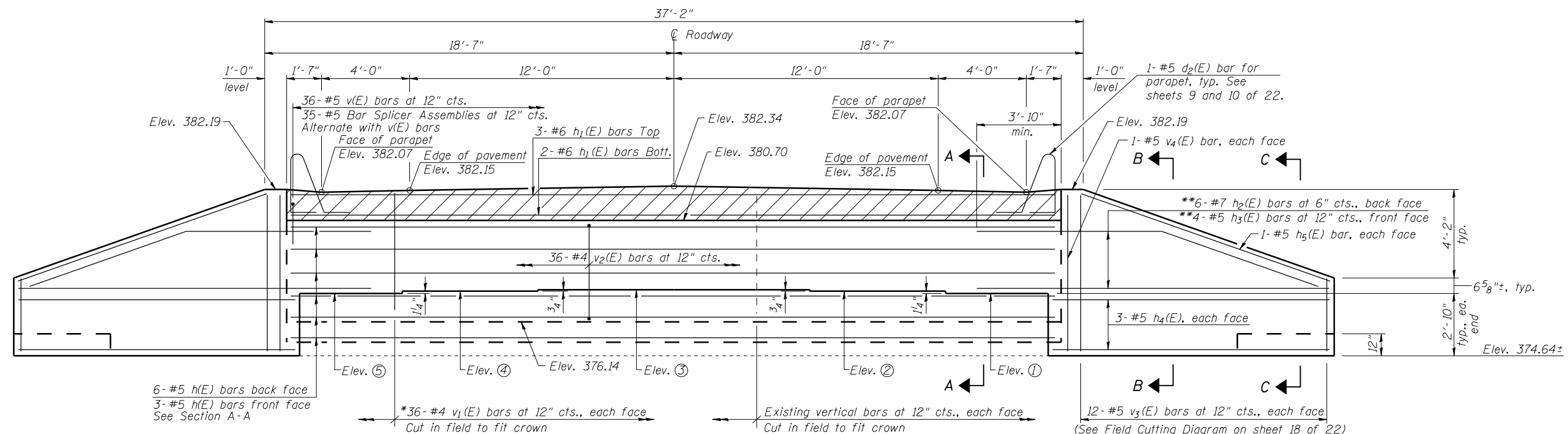
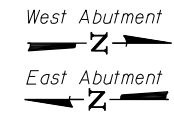
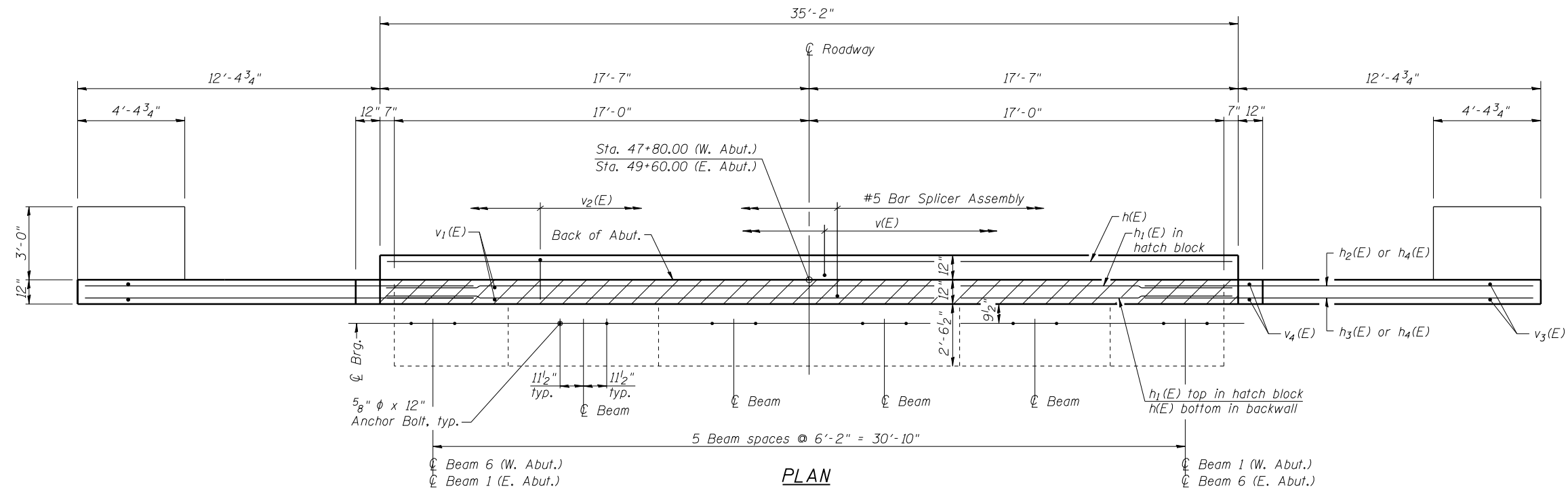


TABLE OF EXISTING BRG. SEAT ELEVATIONS

Location	W. Abut.	E. Abut.
①	377.46	377.49
②	377.56	377.58
③	377.63	377.64
④	377.57	377.59
⑤	377.47	377.49

ELEVATION
 (Looking East at E. Abut.,
 Looking West at W. Abut.)

* Alternate with existing vertical reinforcement and epoxy grout into 3/4" φ x 9" drilled holes as shown in Section A-A. See Section 584 of the Standard Specifications.

** Bend and cut to fit.



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ABUTMENT DETAILS
 STRUCTURE NO. 097-0027

SHEET NO. 17 OF 22 SHEETS

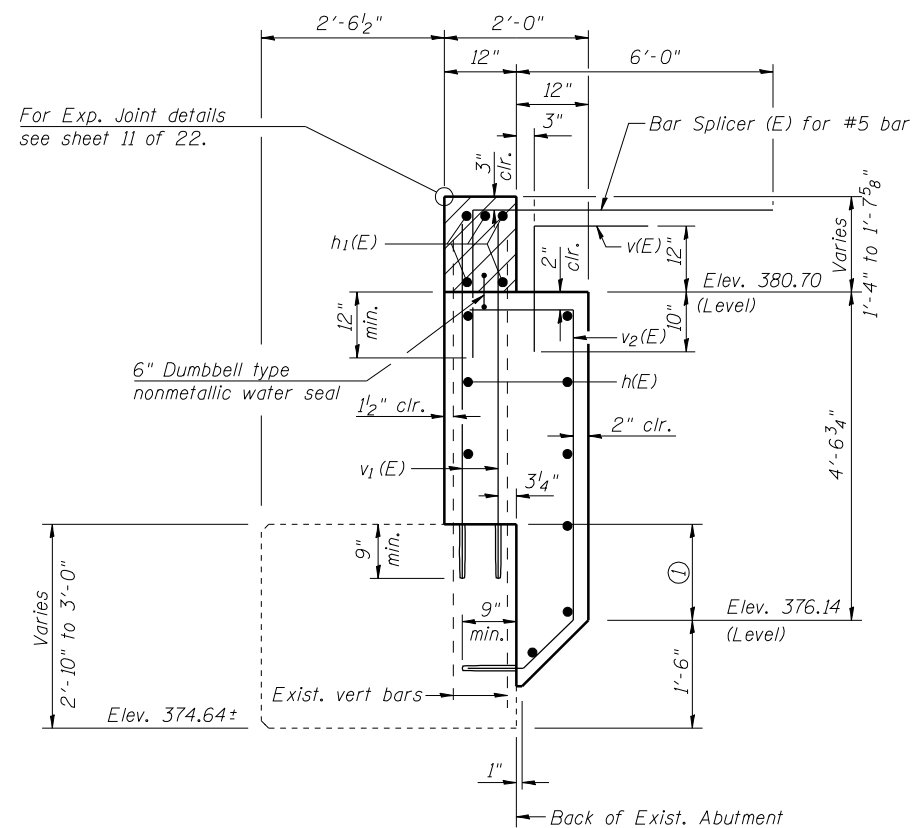
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	36
CONTRACT NO. 78231				

ILLINOIS FED. AID PROJECT AID

**TWO ABUTMENTS
BILL OF MATERIAL**

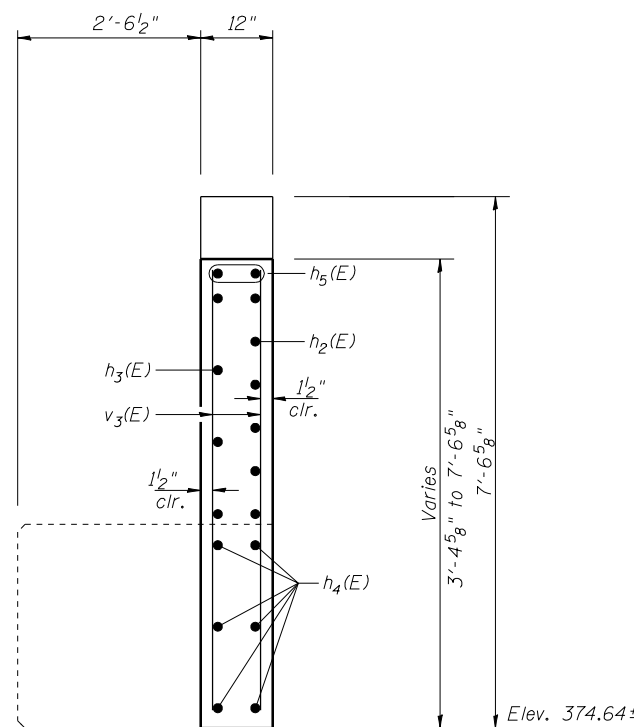
Bar	No.	Size	Length	Shape
d ₂ (E)	4	#5	7'-11"	⤴
h(E)	18	#5	34'-10"	—
h ₁ (E)	10	#6	34'-10"	—
h ₂ (E)	24	#7	16'-1"	—
h ₃ (E)	16	#5	16'-1"	—
h ₄ (E)	24	#5	12'-7"	—
h ₅ (E)	8	#5	12'-0"	—
n(E)	20	#4	3'-6"	J
t ₁ (E)	40	#5	3'-8"	—
v(E)	72	#5	3'-9"	⌋
v ₁ (E)	144	#4	5'-2"	—
v ₂ (E)	72	#4	7'-9"	J
v ₃ (E)	48	#5	10'-0"	—
v ₄ (E)	8	#5	7'-2"	—
w ₁ (E)	40	#4	4'-0"	—
Structure Excavation			Cu. Yd.	120
Concrete Structures			Cu. Yd.	33.9
Reinforcement Bars, Epoxy Coated			Pound	4700
Concrete Sealer			Sq. Ft.	330

Notes:
 Concrete Sealer shall be applied to all exposed surfaces of new concrete backwalls.
 For details of Bar Splicers, see sheet 20 of 22.
 Hatched area to be poured after superstructure falsework has been removed. Quantity of concrete included with Concrete Superstructure.

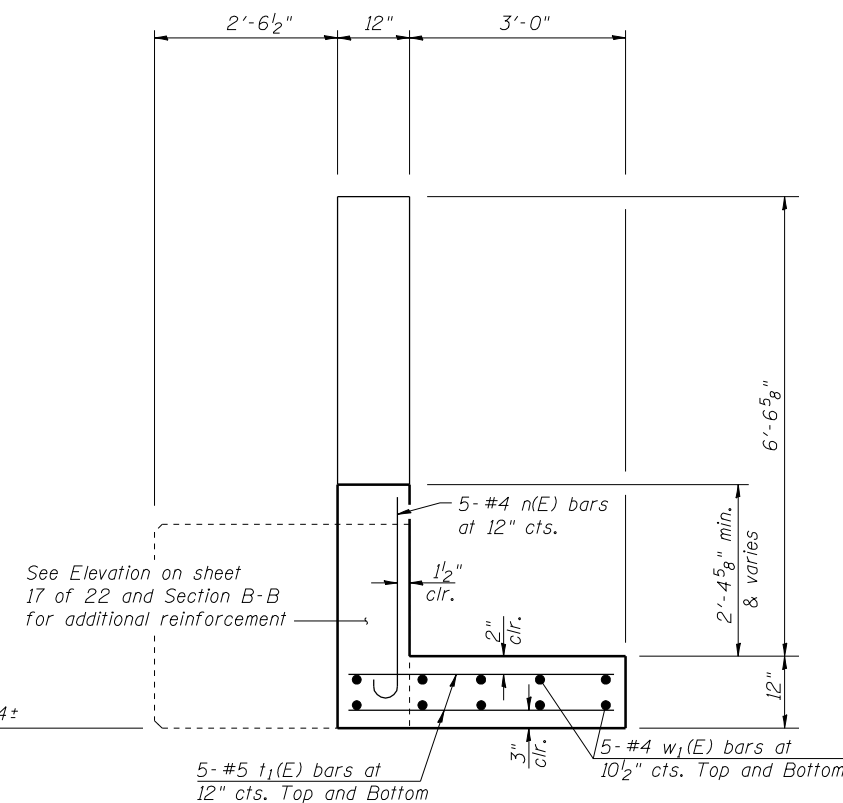


SECTION A-A

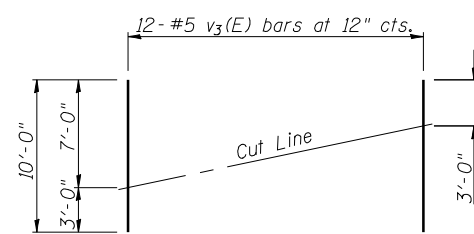
① Varies 1'-4" to 1'-6" - W. Abut.
 Varies 1'-4" to 1'-5 3/4" - E. Abut.



SECTION B-B



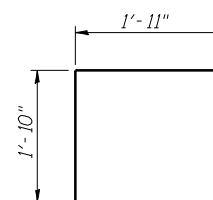
SECTION C-C



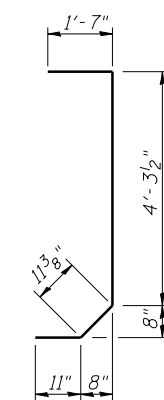
BAR v₃(E)

FIELD CUTTING DIAGRAM

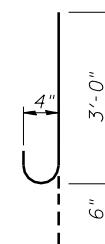
Order v₃(E) bars full length. Cut as shown and use remainder of bars in opposite face.



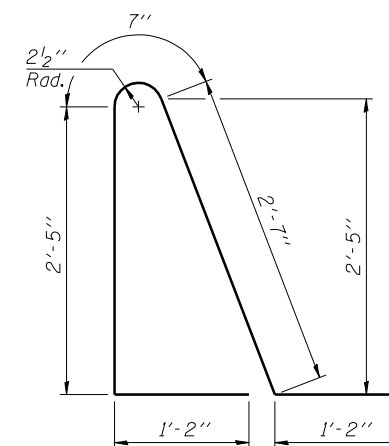
BAR v(E)



BAR v₂(E)



BAR n(E)



BAR d₂(E)



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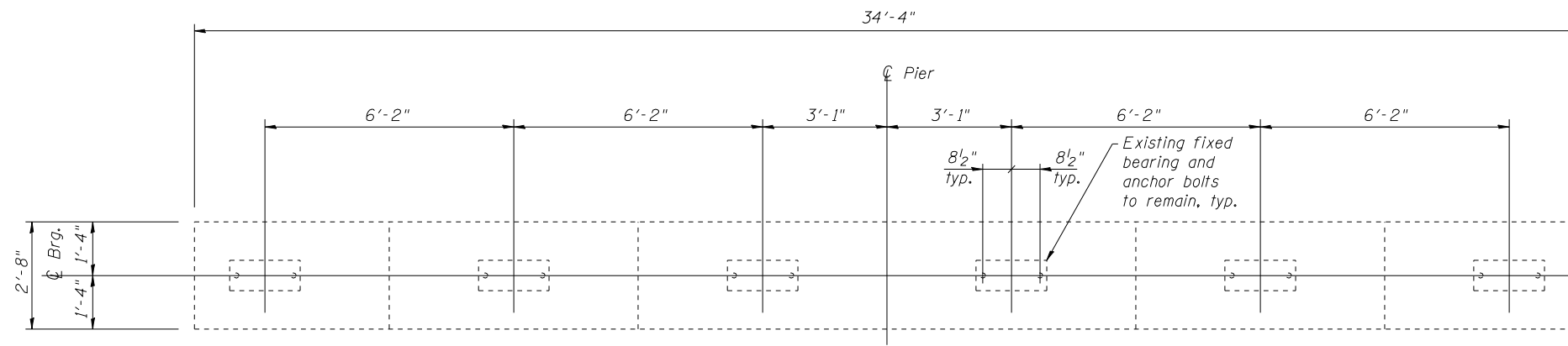
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS
STRUCTURE NO. 097-0027**

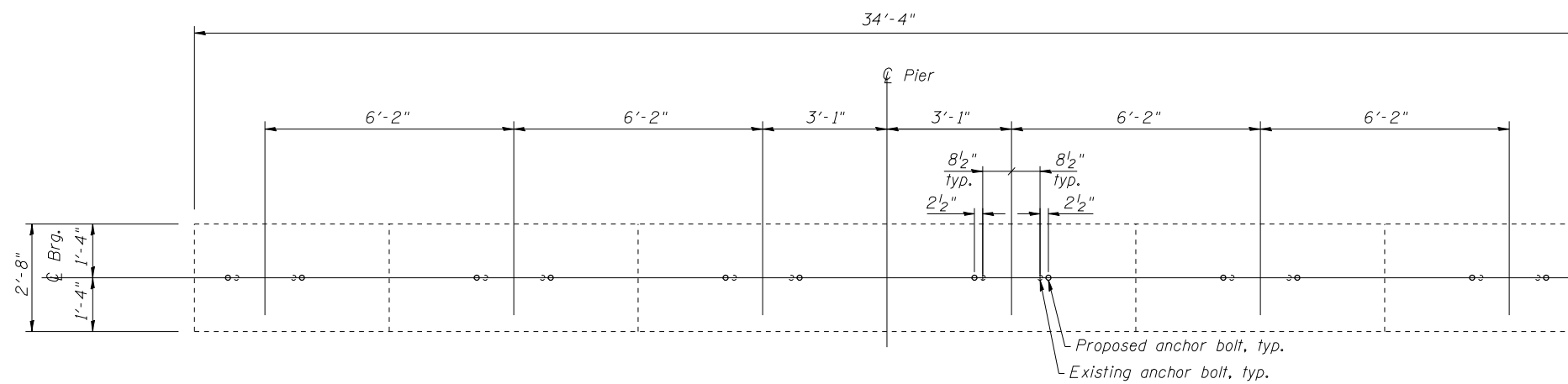
SHEET NO. 18 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	37
CONTRACT NO. 78231				

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PLAN - PIER 1



PLAN - PIER 2



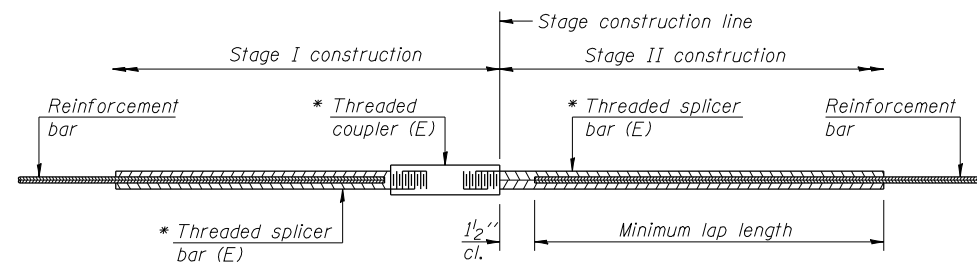
USER NAME = kah	DESIGNED - SHL	02/13	REVISED -
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DEPARTMENT OF TRANSPORTATION**

**PIERS 1 & 2
STRUCTURE NO. 097-0027**

SHEET NO. 19 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	38
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT AID				



STANDARD BAR SPLICER ASSEMBLY

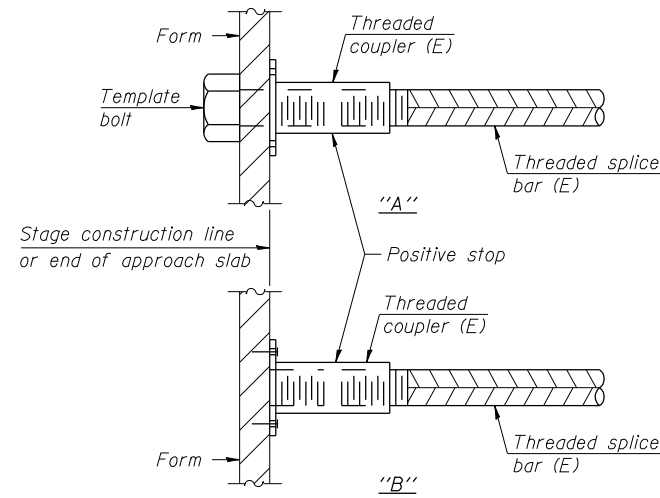
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

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

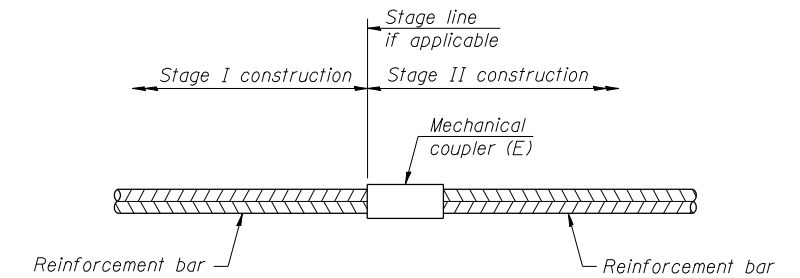
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



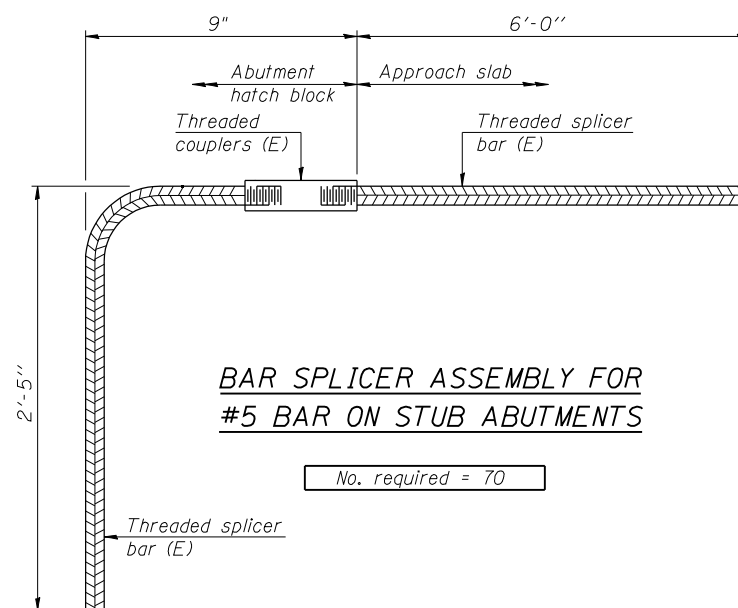
INSTALLATION AND SETTING METHODS

"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

NOTES

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

BSD-1

8-31-12



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

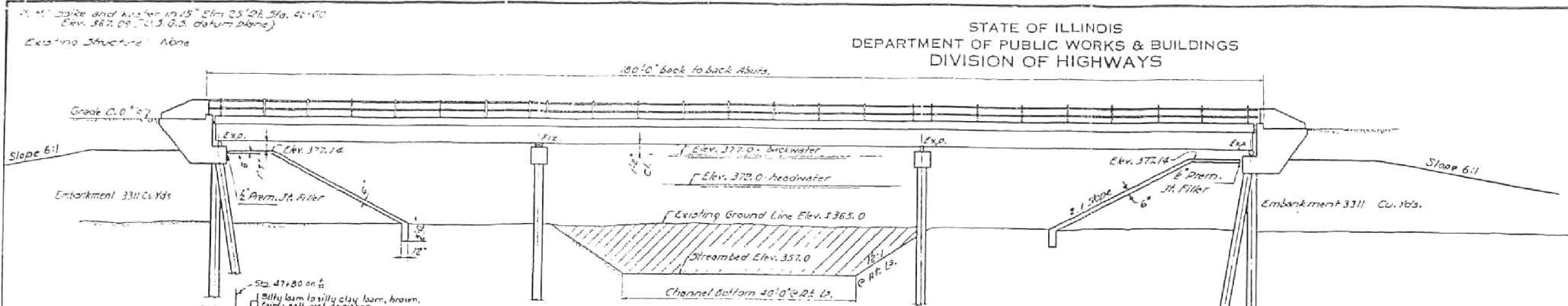
**BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 097-0027**

SHEET NO. 20 OF 22 SHEETS

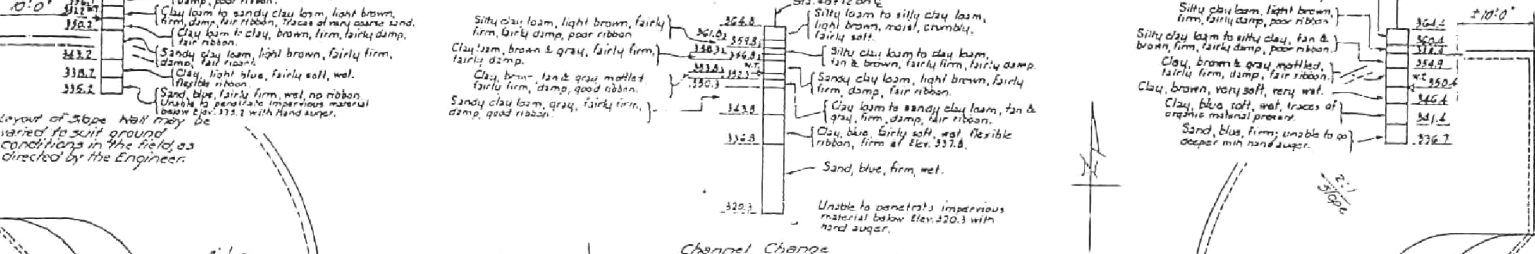
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	39
CONTRACT NO. 78231			ILLINOIS FED. AID PROJECT AID	

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

DATE	NO.	BY	CHKD.	APP'D.	SHEET NO.
11.13	100-B	White - Gallatin			6
PROJECT: F-221(5)					G SHEETS

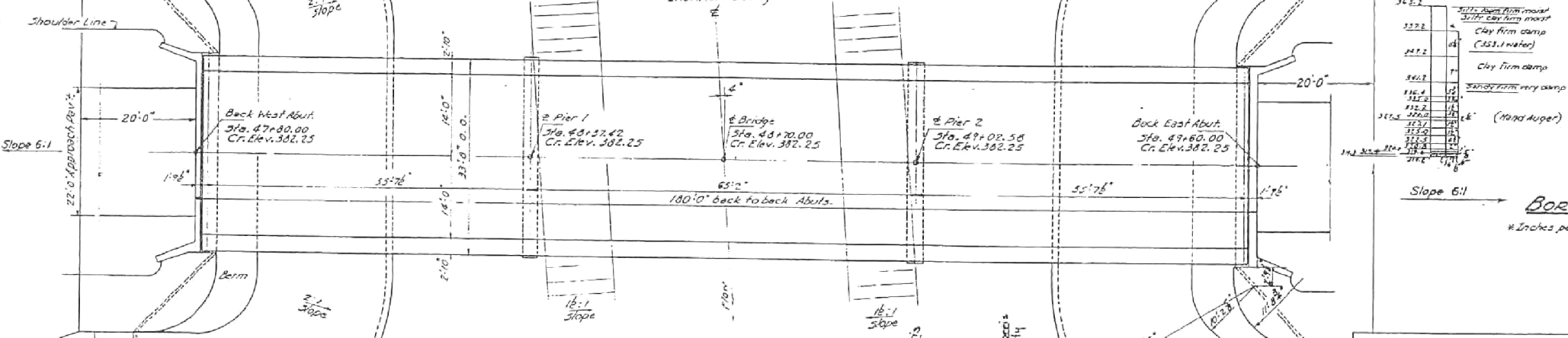


GENERAL ELEVATION - Scale: 3/8" = 1'-0"



GENERAL NOTES

Class II Concrete shall be used throughout. Handrail Concrete shall be used in Retaining Walls. Concrete floor slab shall be finished in accordance with Art. 31.13 (a) of the Standard Specifications and shall be poured in a continuous operation on either side of the longitudinal construction joint. Slope will shall be reinforced with welded wire fabric 6"x6" mesh #4 wires weighing 50# per 100 sq. ft. All connections shall be riveted except as noted. Structural Steel shall receive one shop coat of red lead paint after inspection and two field coats of aluminum paint. All paint to be furnished and applied by Contractor. See Arts. 31.1 to 31.5 inclusive of the Standard Specifications. Rebar shall be adjusted to true alignment after curbs (safety walks) have been poured. All rollers, rockery bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Art. 31.14 of the Standard Specifications and are included for payment as Structural Steel. Estimated weight: 14,220 lbs. Anchor bolts shall be set before riveting diaphragms over supports. Expansion guards shall be fabricated and erected in accordance with Art. 31.01 of the Standard Specifications. Est. Height: 1502. Welding shall comply with Art. 35.4 (3) of the Standard Specifications. The Contractor shall drive one Test Pile in a permanent location as directed by the Engineer before ordering the remainder of the piles. Before Superstructure is placed construct embankment in accordance with Sec. 16 of the Standard Specifications. Layout of slope walls may be varied to suit ground conditions in the field as directed by the Engineer. Boring Data are shown only as a guide to bidders in estimating soil conditions which may be encountered in the work.



PLAN Scale: 3/8" = 1'-0"

BORING DATA

1/2" inches per 10 Blows 180' @ 18" drop

47+00 on E	362.2	Silty loam, firm, moist, crumbly
	352.2	Clay firm damp
	342.2	Clay firm damp
	332.2	Clay firm damp
	322.2	Clay firm damp
	312.2	Clay firm damp
	302.2	Clay firm damp
	292.2	Clay firm damp
	282.2	Clay firm damp
	272.2	Clay firm damp
	262.2	Clay firm damp
	252.2	Clay firm damp
	242.2	Clay firm damp
	232.2	Clay firm damp
	222.2	Clay firm damp
	212.2	Clay firm damp
	202.2	Clay firm damp
	192.2	Clay firm damp
	182.2	Clay firm damp
	172.2	Clay firm damp
	162.2	Clay firm damp
	152.2	Clay firm damp
	142.2	Clay firm damp
	132.2	Clay firm damp
	122.2	Clay firm damp
	112.2	Clay firm damp
	102.2	Clay firm damp
	92.2	Clay firm damp
	82.2	Clay firm damp
	72.2	Clay firm damp
	62.2	Clay firm damp
	52.2	Clay firm damp
	42.2	Clay firm damp
	32.2	Clay firm damp
	22.2	Clay firm damp
	12.2	Clay firm damp
	2.2	Clay firm damp

WATERWAY INFORMATION

Drainage Area	30340 acres.
Character	Rolling, cultivated, pasture.
Regl. Opening (25yr flood)	1250 sq. ft.
Present Opening	none
Proposed Opening	1250 sq. ft.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY	SUB.	TOTAL
Class II Concrete	Cu. Yds.	163.4	63.8	227.2
Handrail Concrete	Cu. Yds.	1.8	-	1.8
Reinforcement Bars	Lbs.	21110	4630	25740
Structural Steel	Lbs.	181060	-	181060
Metal Handrail	Lin. Ft.	359	-	359
Slope Wall	Sq. Yds.	-	-	1043
Name Plates	Each	1	-	1
Precast Conc. Pile	Lin. Ft.	-	1150	1150
Test Pile (Precast Conc.)	Each	-	1	1

STATION 48+70
BUILT 195 BY
STATE OF ILLINOIS
F.A. RTE. 113 SEC. 100-B
F.A. PROJ. F-221(5)
LOADING H20-S16

LETTERING FOR NAMEPLATE
See Standard 2113

CROSS SECTION OF PROPOSED CHANNEL CHANGE

RT and LT Sta. 48+70
TO BE CONSTRUCTED UNDER SEPARATE CONTRACT



LOCATION SKETCH



DESIGN STRESSES

f _c	1400 lb./sq. Super
f _c	900 lb./sq. Sub.
f _s	20000 lb./sq. Reinf.
f _s	18000 lb./sq. Struct.
n	10

GENERAL PLAN ELEVATION

F.A. RTE. 113 - SECTION 100-B
PROJECT F-221(5)
WHITE COUNTY
STATION 48+70

DESIGNED	M J Corral	EXAMINED	April 13 1955
CHECKED	H. J. Schum	PASSED	
DRAWN	M. J. Corral	APPROVED	M. J. Corral
CHECKED	J. H. C.		

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MODEL = Default
PLOT DRIVER = IODT_PDF.plt



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PLOT SCALE = 48.0000 / 1 in.	CHECKED - MTM	REVISED -
PLOT DATE = 7/8/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

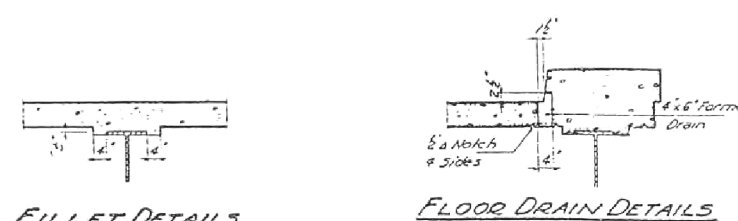
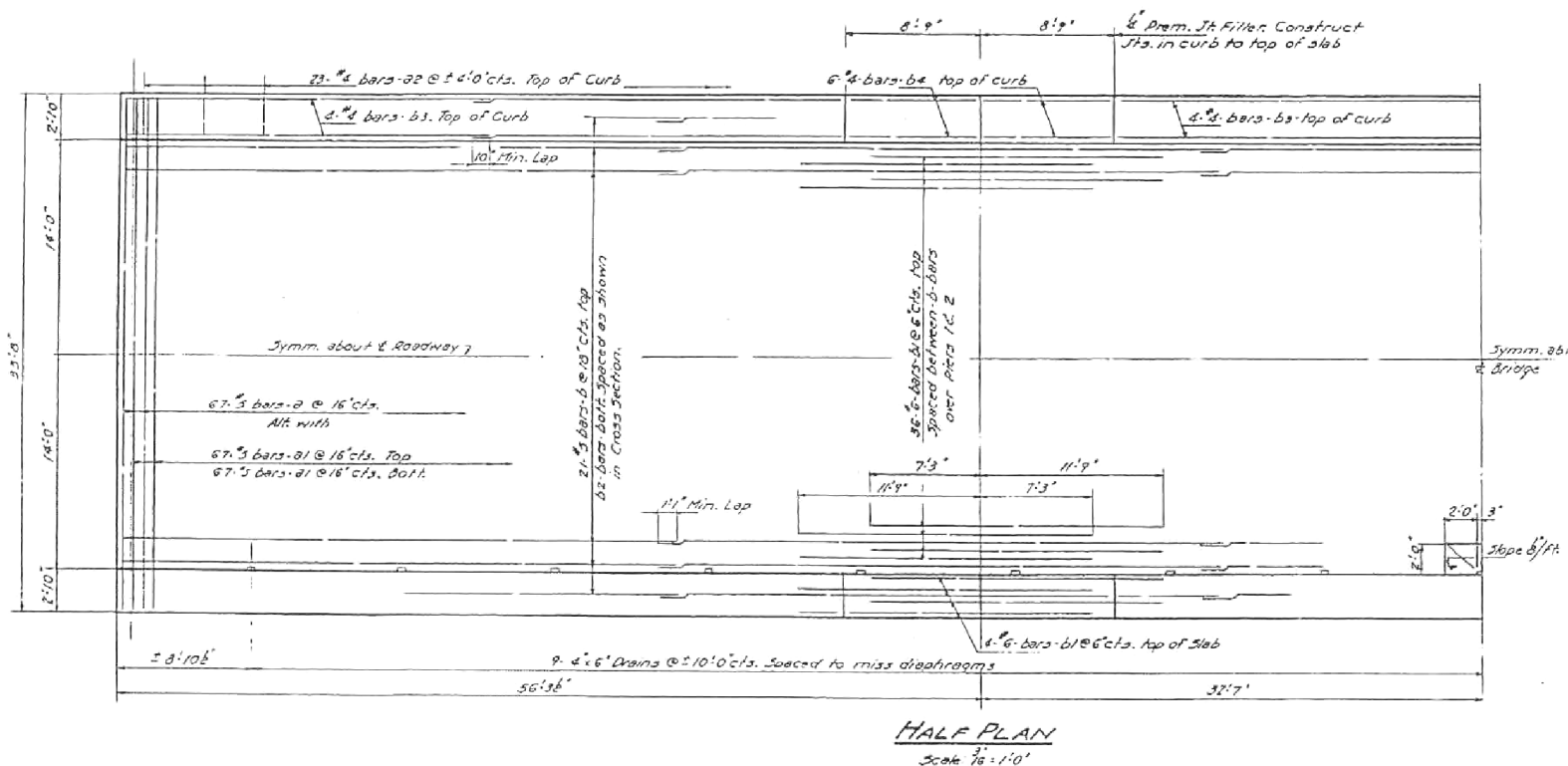
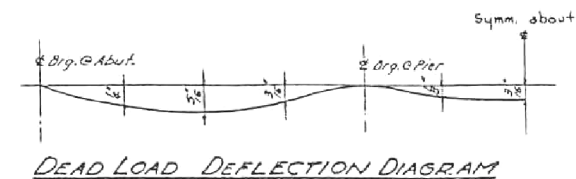
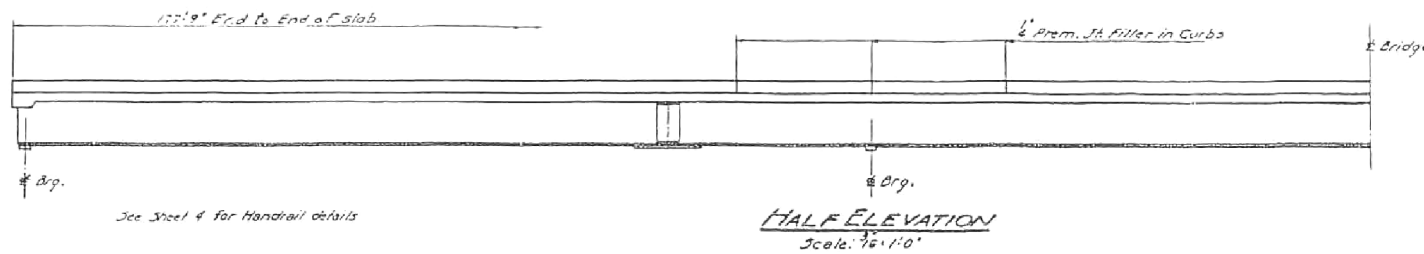
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	42
CONTRACT NO. 78231				

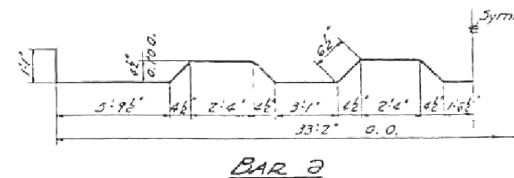
ILLINOIS FED. AID PROJECT

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

DATE	11/3	1008	White Gallatin	11	7	SHEET NO. 2
TOTAL SHEETS	6 SHEETS					

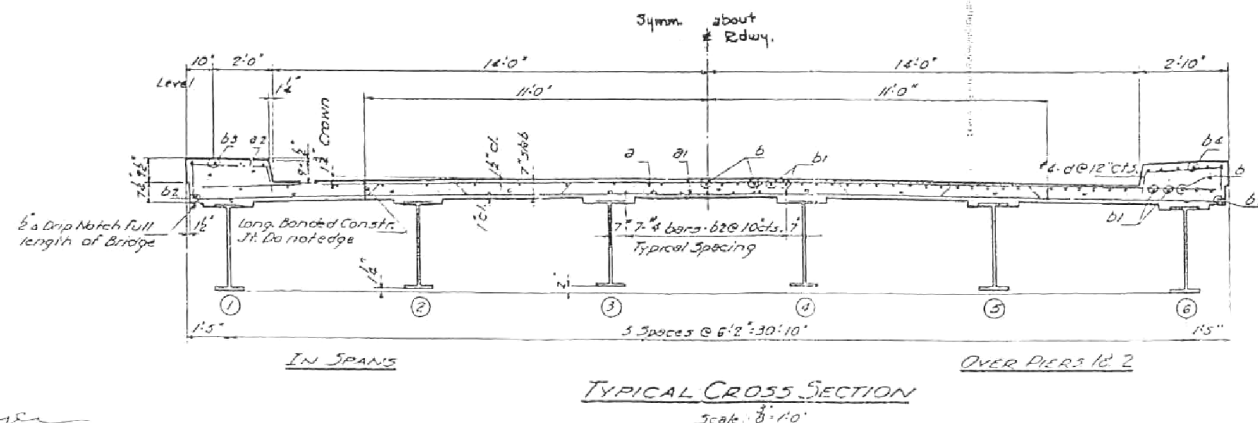


After all Structural Steel has been erected elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 ft. From these elevations subtract the increment of deflection for these points determined from Dead Load Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations, minus floor thickness, equals the fillet heights above top of beam.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	134	#5	36'0"	U
a1	268	#5	33'0"	—
a2	92	#4	2'6"	—
b	105	#5	36'6"	—
b1	88	#6	19'0"	—
b2	222	#4	30'2"	—
b3	48	#4	24'0"	—
b4	48	#4	8'6"	—
c	356	#4	11'	—
Class II Concrete			Cu. Yds.	153.4
Reinforcement Bars			Lbs.	26810
Structural Steel			Lbs.	181060
Name Plates			Each	1



DESIGNED: M. G. Carril
CHECKED: H. J. C.
DRAWN: H. J. C.
CHECKED: H. J. C.

EXAMINED: APRIL 13 1955
PASSED: [Signature]
APPROVED: [Signature]

SUPERSTRUCTURE
F.A. RTE. 113 - SECTION 100.8
PROJECT F-221 (5)
WHITE COUNTY
STATION 48+70

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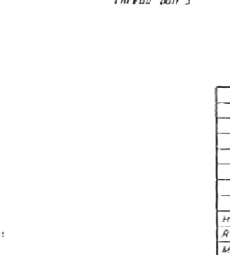
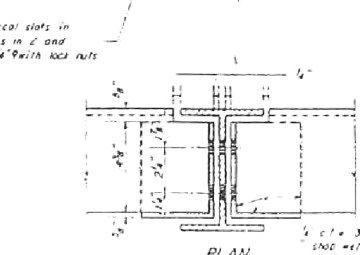
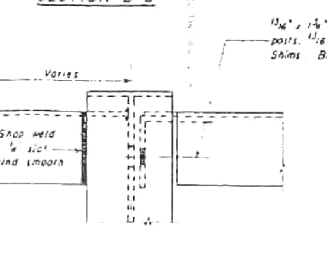
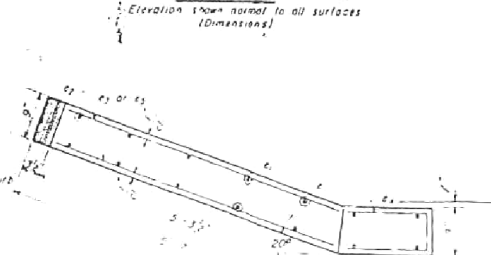
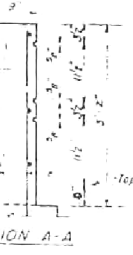
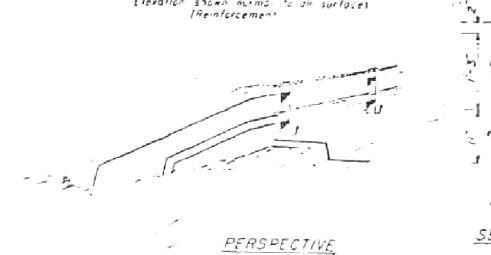
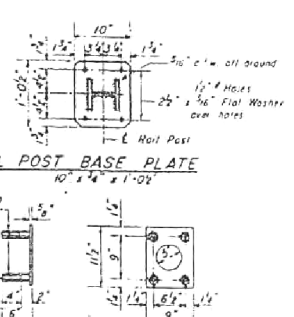
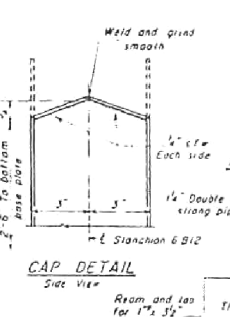
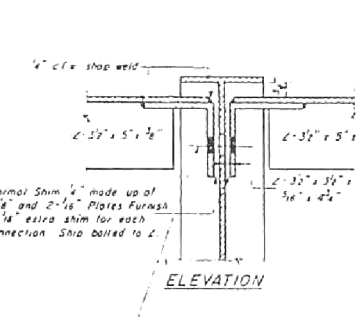
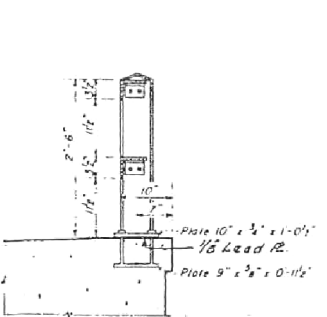
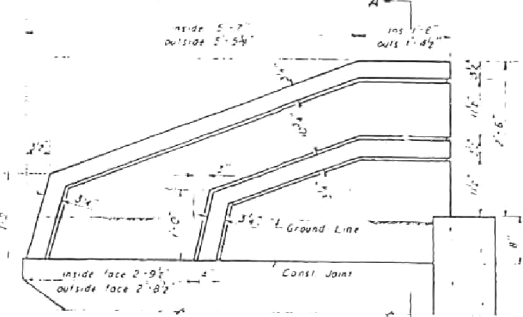
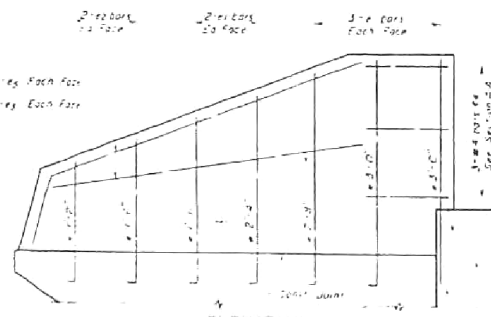
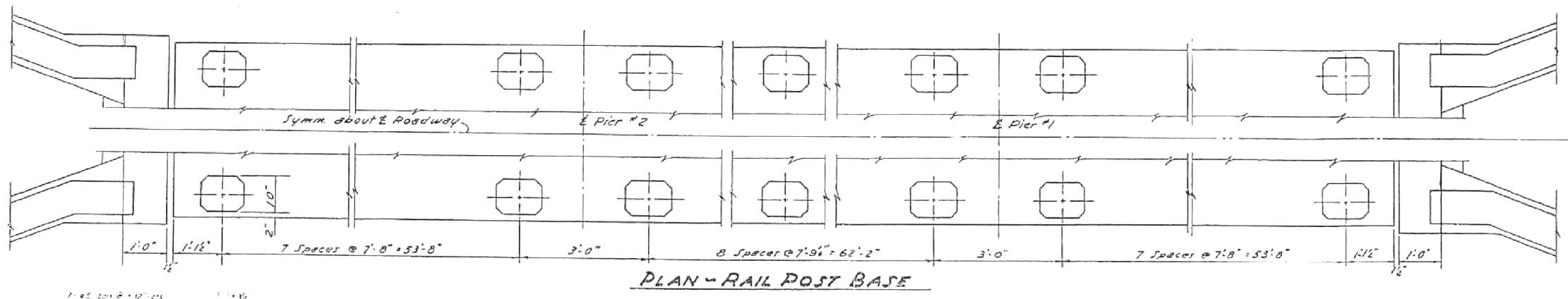
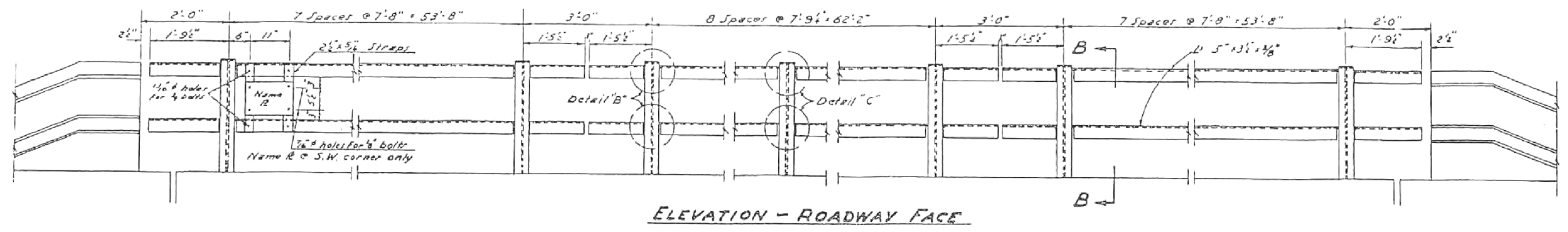
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: NONE SHEET NO. 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	43
CONTRACT NO. 78231				

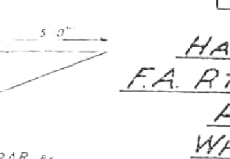
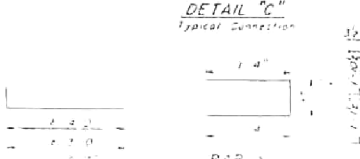
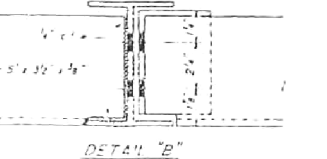
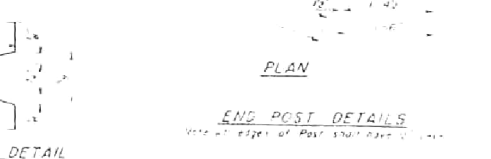
ILLINOIS FED. AID PROJECT



BILL OF MATERIAL

Bar	No.	Size	Length	Splice	
e	24	#5	4'-3"		
e	16	#5	3'-3"		
e	16	#5	2'-9"		
e	8	#4	3'-3"		
e	12	#4	3'-3"		
e	8	#4	6'-6"		
Handrail Concrete				Cu Yd	1.5
Reinforcement Bars				Lb.	370
Metal Handrail				L/A Ft.	35.9

W. J. Kamel
H. G. Chen
M. B. C.
Apr 13 56
M. Romo
E. J. Scherertz
P. H. Bortoluzzi



HANDRAIL DETAILS
F.A. RT. 113 SECTION 100-B
PROJECT F-221(5)
WHITE COUNTY
STATION 48+70

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MODEL = Default
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

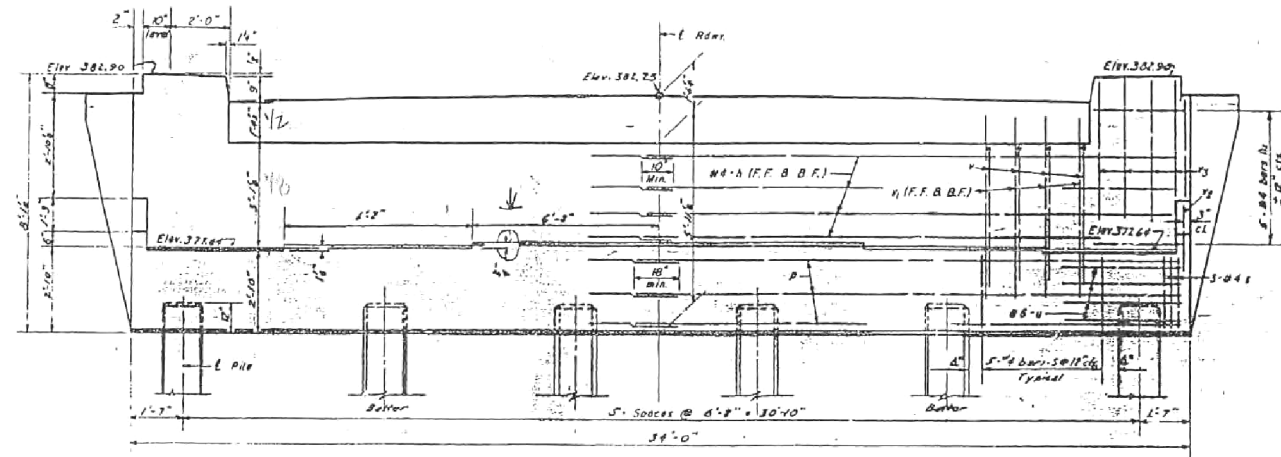
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	45
CONTRACT NO. 78231				

ILLINOIS FED. AID PROJECT

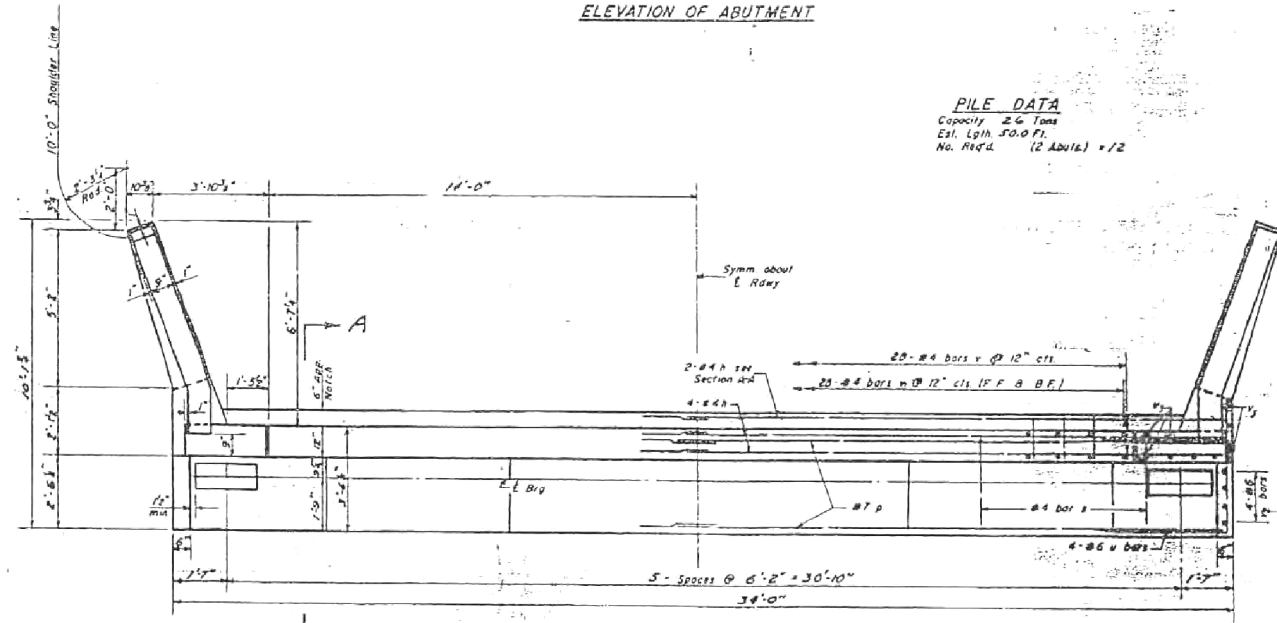
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET
F.A. 113	100B	White - Gallatin	11	11	8 SHEETS
ILLINOIS	SEE SEE PROJECT	F-221(5)			



ELEVATION OF ABUTMENT

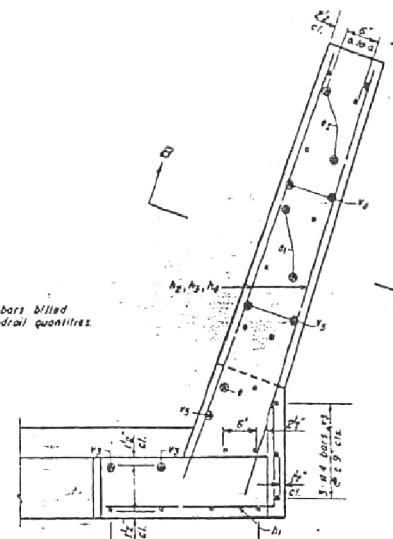
PILE DATA
Capacity 26 Tons
Est. Lgth. 50.0 FT.
No. Req'd. (2 Abut.) = 12



PLAN OF ABUTMENT

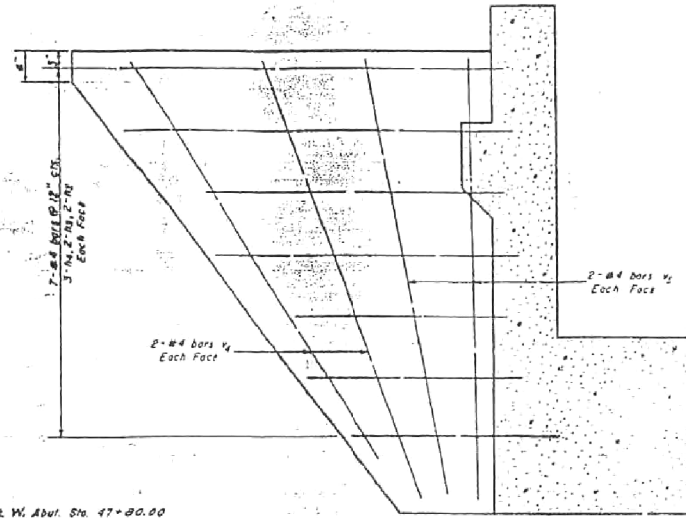
PILE DATA
Capacity 26 Tons
Est. Lgth. 50 FT.
No. Required 12 (2 Abut.)

See sheet #5 for pile details.

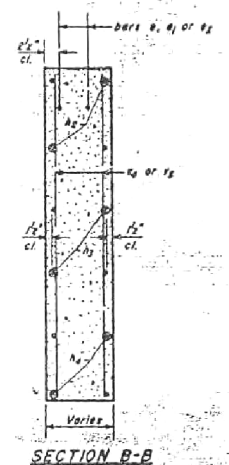


PLAN OF BRACKET

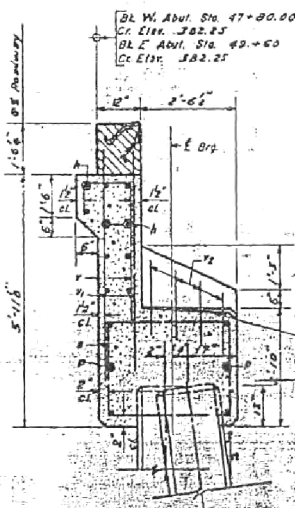
Note: All bars billed in fractional quantities.



ELEVATION OF BRACKET



SECTION B-B



SECTION A-A

BILL OF MATERIAL - 2 ABUTMENTS

Bar	No.	Size	Lgth.	Sq. Ft.
A	40	#4	17'-6"	
B	20	#4	4'-6"	
A ₁	16	#4	6'-6"	
A ₂	16	#4	5'-0"	
A ₃	24	#4	3'-8"	
B	28	#7	17'-6"	
B ₁	62	#4	12'-0"	
B ₂	46	#6	10'-8"	
B ₃	56	#4	6'-0"	
B ₄	112	#4	5'-8"	
B ₅	16	#6	3'-8"	
B ₆	36	#4	6'-0"	
B ₇	16	#4	8'-0"	
B ₈	16	#4	7'-0"	
Class X Concrete				
C4 Y4' 45.0				
Reinforcement Bars				
L.B. 3300				
18" Precast Cant Piers				
V42RPH 600				

DESIGNED: *M. J. WATKINS*
CHECKED: *H. M. CHEN*
DRAWN: *M. J. C.*
APPROVED: *M. J. WATKINS*
DATE: *April 13, 1955*

ABUTMENTS
F.A. RTE 113 SECT. 100B
WHITE COUNTY
STA. 48+70

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PLOT DATE = 7/8/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

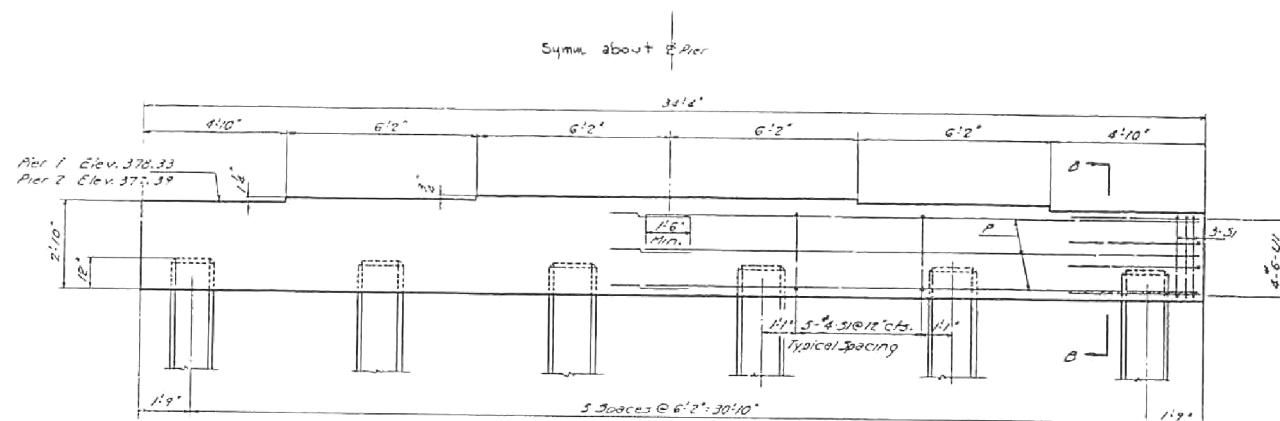
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	46
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

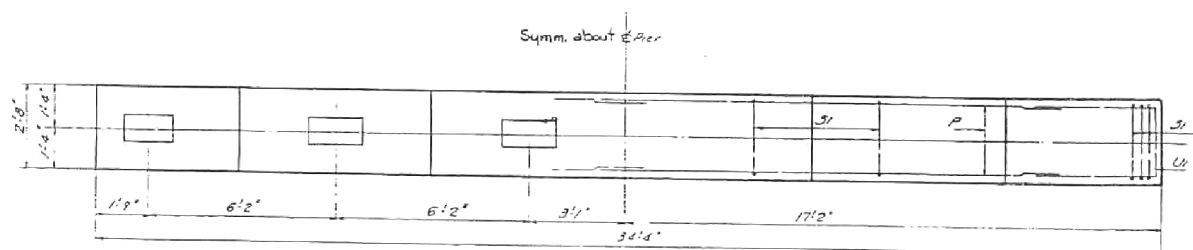
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

NO. 113	100B	White-Gallatin	11	10
F.A.P. R.T.E. 113		SECTION 100-B	PROJECT F-221(5)	

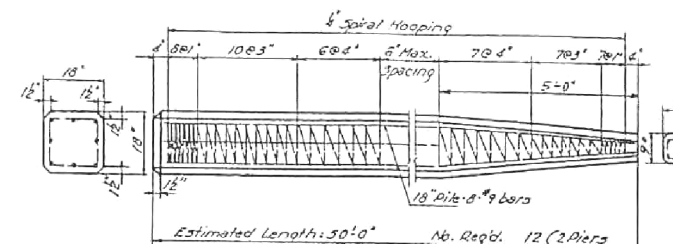
SHEET NO. 5
6 SHEETS



ELEVATION OF PIER
Scale: 3/8" = 1'-0"

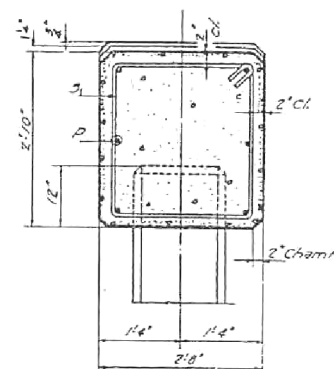


PLAN OF PIER
Scale: 3/8" = 1'-0"

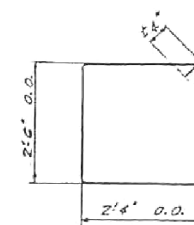


DETAIL OF PRECAST CONCRETE PILES

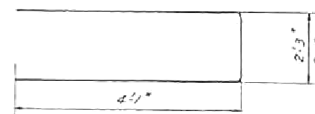
PILE DATA
Capacity 45 Tons
Est. Length 50 Ft.
No. Piles 12 (2 Piers)



SECTION B-B



BAR 31



BAR U1

BILL OF MATERIAL - 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
P	24	#7	17'6"	
31	62	#4	10'3"	□
U1	16	#6	10'5"	□
Class-X Concrete		Cu.Yds	18.3	
Reinforcement Bars		Lbs.	1590	
10' Precast Concrete Pile		Lin. Ft.	550	
Test Pile		Each	1	

DESIGNED	M. G. Carroll
CHECKED	Am. Chan
DRAWN	M. G. C.
CHECKED	H. C.

EXAMINED	April 12, 1955
PASSES	C. S. Thieritz
APPROVED	B. B. Bantley

PIERS
F.A. RTE. 113 - SECTION 100-B
PROJECT F-221(5)
WHITE COUNTY
STATION 48+70

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QEI
QUIGG ENGINEERING INC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

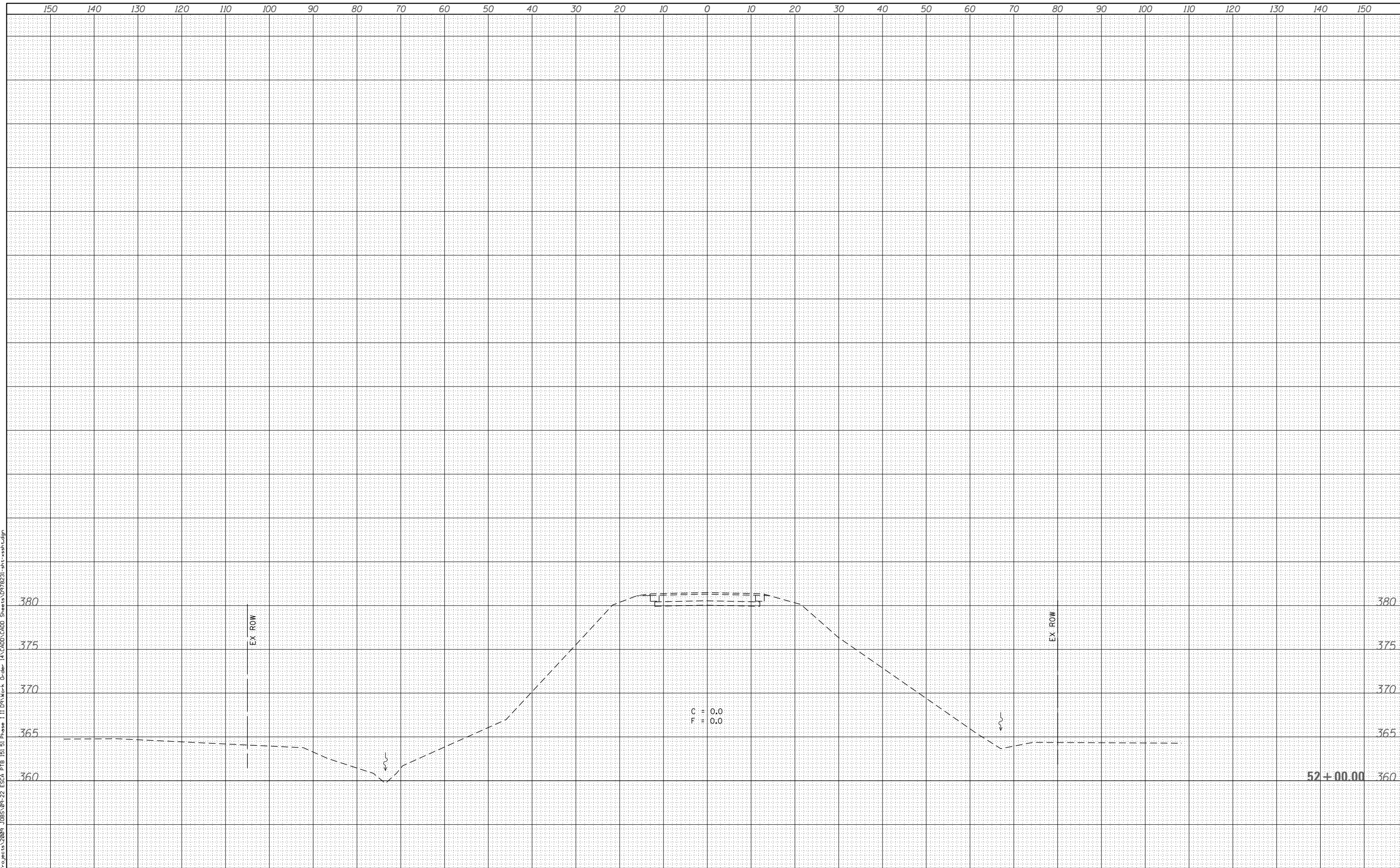
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F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	47
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

PLOT DRIVER = I:\00_PDF.plt;g
 FILE NAME = S:\projects\2809_JOBS\99-22_ESCA_P1B_I51_Phase_111_Dr\Work-Order_14\CADD\CADD_Sheets\9978231-shr-ssht.dgn



C = 0.0
 F = 0.0



USER NAME = twalker
 FILE NAME = D:\978231-shr-ssht.dgn
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 7/9/2014

DESIGNED - MCV
 DRAWN - CMM
 CHECKED - MTM
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 141 CROSS SECTIONS

SCALE: 10H : 5V SHEET 7 OF 7 SHEETS STA. 52+00.00 TO STA. 52+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	100B-1	WHITE	54	54
CONTRACT NO. 78231				
ILLINOIS FED. AID PROJECT				