

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	101 BR-2)BR	BUREAU	62	1
ILLINOIS			CONTRACT NO. 66A21	

65 TOTAL

INDEX OF SHEETS

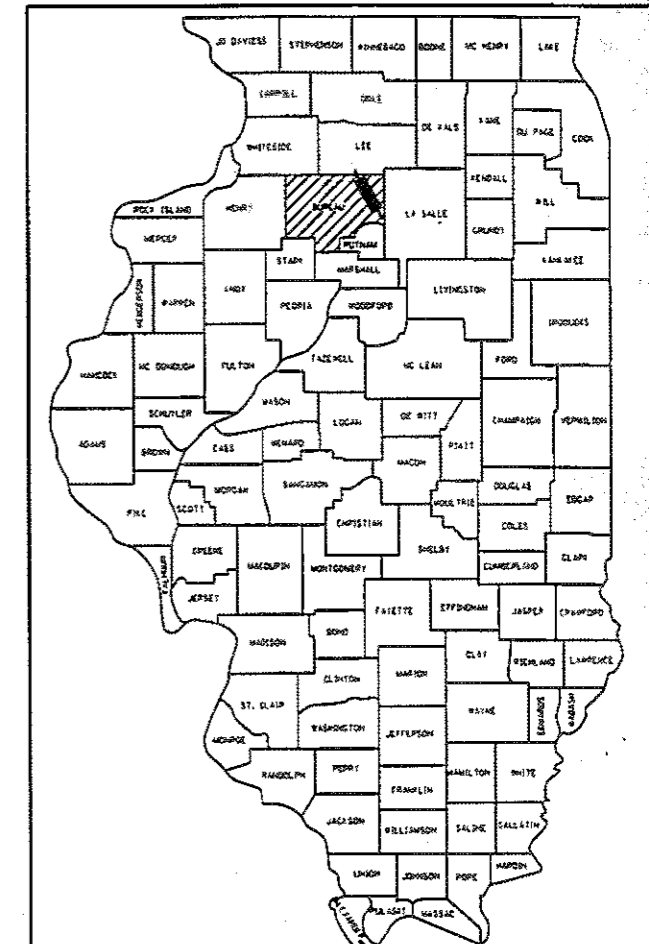
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FOR LIST OF STANDARDS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAP 698 (IL 89)  
SECTION (101 BR-2)BR  
PROJECT STP-0Q8Y(536)  
BRIDGE REPLACEMENT  
BUREAU COUNTY

C-93-020-16



LOCATION OF SECTION INDICATED THIS: - [shaded area] -

FUNCTIONAL CLASSIFICATION:  
RURAL MINOR ARTERIAL

2017 ADT = 1550  
P.V. = 93.5% S.U. = 3.9% M.U. = 2.6%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

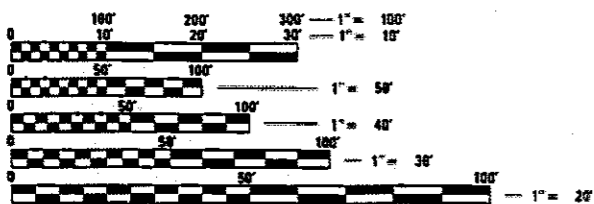
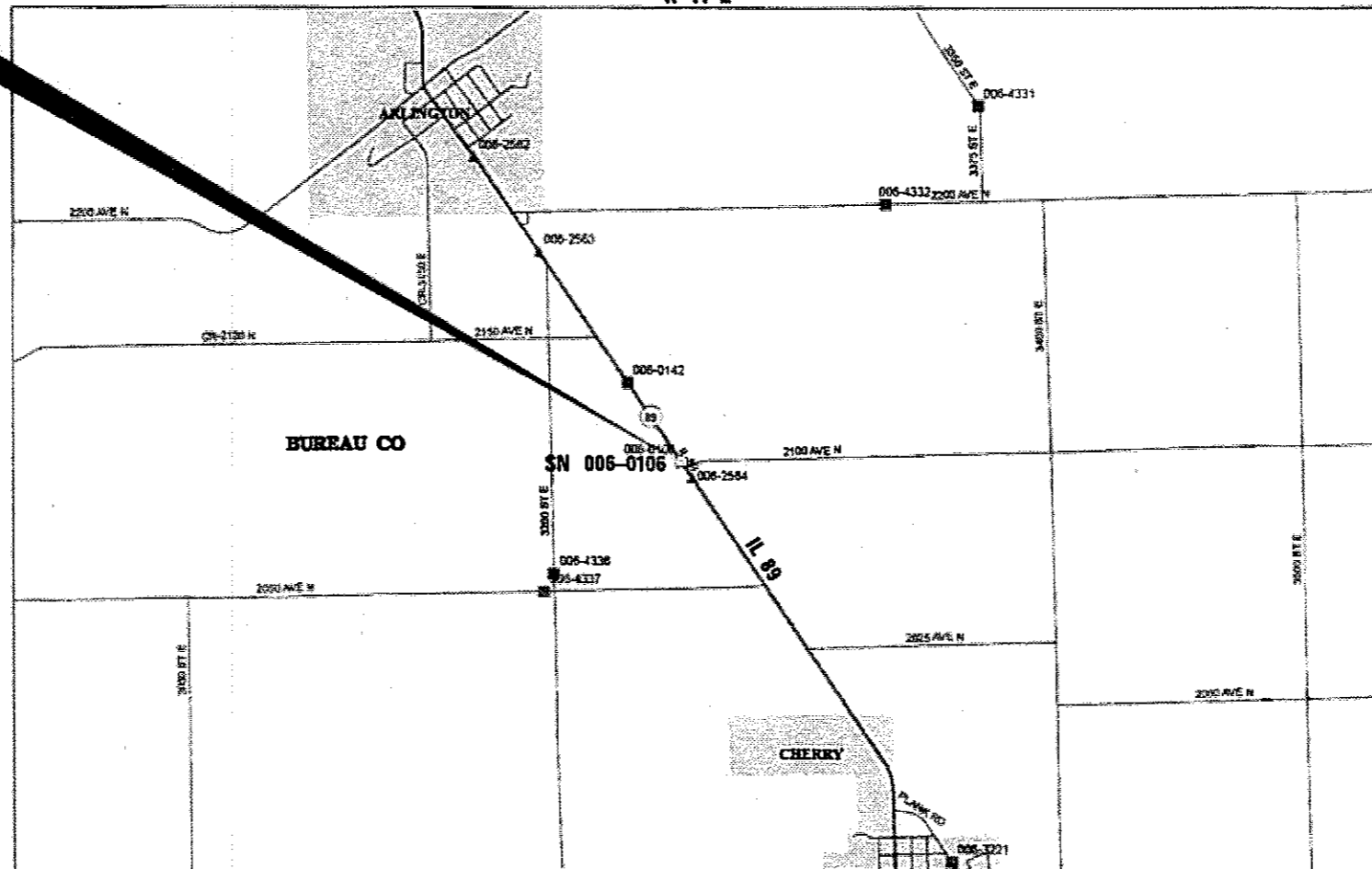
SUBMITTED *07/27* 20 *18*  
*Kim Haskel*  
REGIONAL ENGINEER

*May 11* 20 *18*  
*EA, ETC*  
ENGINEER OF DESIGN AND ENVIRONMENT

*May 11* 20 *18*  
*Paul J. [Signature]*  
DIRECTOR OF HIGHWAYS, PROJECT IMPLEMENTATION

EXISTING S.N. 006-0106 STATION 308+78  
47'-0" L X 33'-0" W SINGLE SPAN PPC DECK  
BEAMS WITH WATERPROOFING & HMA  
CONSTRUCTED IN 1927 (NEW DECK IN 1983)

PROPOSED S.N. 006-0188 THREE SPAN 14" REINF.  
CONC. SLAB WITH INTEGRAL ABUTMENTS  
70'-0" L X 35'-2" W



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

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

PROJECT ENGINEER: BRAD DUNCAN, P.E.  
UNIT CHIEF: DARCY CARPENTER  
DISTRICT 3 NO. (815) 434-6131  
CONTRACT NO. 66A21

GROSS LENGTH = 830 FT. = 0.16 MILE  
NET LENGTH = 830 FT. = 0.16 MILE

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**GENERAL NOTES**

THE THICKNESS OF HMA 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 IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL 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.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

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 WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- AMERENIP (OVERHEAD ELECTRIC)
- FRONTIER (BURIED TELEPHONE)
- THE VILLAGE OF CHERRY (WATER)

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

**COMMITMENTS**

1. THERE IS A WELL FOR THE VILLAGE OF CHERRY IN CLOSE PROXIMITY TO THE TEMPORARY EASEMENT ON THE WEST SIDE OF IL 89. IT IS LOCATED AT THE NORTH END OF THE TEMPORARY EASEMENT AT APPROXIMATE STA. 310+15, 50' RT. THE WELL HOUSE IS SOUTH OF THE TEMPORARY EASEMENT AREA, JUST NORTH OF THE SHED ON THE PROPERTY.

THE CONTRACTOR IS NOTIFIED TO AVOID DAMAGE TO THE WELL, THE WELL HOUSE, AND ADJACENT WATER LINES.

HEAVY EQUIPMENT SHOULD NOT USE THE FIELD ENTRANCE AT STA. 311+18 (PROPOSED STA. 311+23) TO AVOID DAMAGE TO EXISTING WATER LINES.

CHERRY VILLAGE OFFICES PHONE (815) 894-3338

2. TO MINIMIZE THE IMPACTS TO ACCESS DURING PLANTING / HARVESTING, THE RESIDENT ENGINEER SHALL COORDINATE THE CLOSURE OF THE FIELD ENTRANCE LOCATED AT STA. 311+18 (PROPOSED STA. 311+23) WITH THE PROPERTY OWNER.

3. THE RESIDENT ENGINEER IS TO COORDINATE WITH THE PROPERTY OWNERS ALONG IL 89 REGARDING EQUIPMENT SAFELY EXITING THE FIELD ENTRANCES AND ENTERING NEAR OR INTO THE CONSTRUCTION ZONE DURING CONSTRUCTION STAGING.

START & END DATES OF CONSTRUCTION:

INSPECTORS:

- 000001-06
- 001001-02
- 001006
- 280001-07
- 420408
- 482011-03
- 515001-03
- 542401-03
- 601101-02
- 630001-12
- 630201-07
- 630301-08
- 631031-15
- 666001-01
- 667101-02
- 701001-02
- 701006-05
- 701011-04
- 701201-04
- 701301-04
- 701306-04
- 701311-03
- 701321-17
- 701326-04
- 701901-07
- 704001-08
- 725001-01
- 780001-05
- 781001-04
- 782008

**HIGHWAY STANDARDS**

- STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- AREAS OF REINFORCEMENT BARS
- DECIMAL OF AN INCH AND OF A FOOT
- TEMPORARY EROSION CONTROL SYSTEMS
- PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
- HMA SHOULDER STRIPS / SHOULDERS WITH RS OR WIDENING & RS PROJECTS
- NAME PLATE FOR BRIDGES
- METAL END SECTION FOR PIPE CULVERTS
- CONCRETE HEADWALL FOR PIPE UNDERDRAIN
- STEEL PLATE BEAM GUARDRAIL
- PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- TRAFFIC BARRIER TERMINAL, TYPE B
- RIGHT-OF-WAY MARKERS
- PERMANENT SURVEY MARKERS
- OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
- OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
- OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
- LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
- TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- OBJECT AND TERMINAL MARKERS
- TYPICAL PAVEMENT MARKINGS
- TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: Dan Beaulieu  
DISTRICT STUDIES & PLANS ENGINEER

DATE: 1-16-18

EXAMINED BY: Lytle Verbeke  
DISTRICT CONSTRUCTION ENGINEER

Michael J. Short  
DISTRICT MATERIALS ENGINEER

J. M. [Signature]  
DISTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	2
CONTRACT NO. 66A21			ILLINOIS/FED. AID PROJECT	

FILE NAME =	USER NAME = carpanterdj	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FEDERAL 20% STATE
				ROADWAY
				0010
				S.N. 006-0188
20200100	EARTH EXCAVATION	CU YD	483	483
20400800	FURNISHED EXCAVATION	CU YD	350	350
25000210	SEEDING, CLASS 2A	ACRE	0.81	0.81
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	73	73
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	73	73
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	73	73
25100630	EROSION CONTROL BLANKET	SQ YD	3912	3912
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	81	81
28000305	TEMPORARY DITCH CHECKS	FOOT	40	40
28000400	PERIMETER EROSION BARRIER	FOOT	792	792
28000500	INLET AND PIPE PROTECTION	EACH	4	4
28100109	STONE RIPRAP, CLASS A5	SQ YD	692	692
28200200	FILTER FABRIC	SQ YD	658	658
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	40	40

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\* SPECIALTY ITEMS

MODEL: S:\MODEL\MARIES  
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PLOT DATE = 4/26/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 698	SECTION (101 BR-2)BR	COUNTY BUREAU	TOTAL SHEETS 62	SHEET NO. 3
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FEDERAL 20% STATE ROADWAY 0010 S.N. 006-0188
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1773	1773
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	0.6	0.6
40600527	LEVELING BINDER (HAND METHOD), IL-9.5FG, N50	TON	1.0	1.0
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	83	83
40600990	TEMPORARY RAMP	SQ YD	87	87
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	281	281
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	110	110
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	71	71
44000100	PAVEMENT REMOVAL	SQ YD	173	173
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	1970	1970
44004250	PAVED SHOULDER REMOVAL	SQ YD	626	626
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	22	22
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	441	441
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1

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MODEL: SMODELNAME  
FILE NAME: FILE15

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	DRAWN -	REVISED
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PLOT DATE = 4/26/2018	DATE -	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	4
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FEDERAL
				20% STATE
				ROADWAY
				0010
				S.N. 006-0188
50105220	PIPE CULVERT REMOVAL	FOOT	92	92
50200100	STRUCTURE EXCAVATION	CU YD	122	122
50200300	COFFERDAM EXCAVATION	CU YD	238	238
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1	1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1	1
50300100	FLOOR DRAINS	EACH	4	4
50300225	CONCRETE STRUCTURES	CU YD	134	134
50300255	CONCRETE SUPERSTRUCTURE	CU YD	127.9	127.9
50300260	BRIDGE DECK GROOVING	SQ YD	434	434
50300265	SEAL COAT CONCRETE	CU YD	98.5	98.5
50300300	PROTECTIVE COAT	SQ YD	546	546
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	97.3	97.3
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	95,005	95,005
50800515	BAR SPLICERS	EACH	597	597

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MODEL: \$MODELNAME\$  
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PLOT DATE = 4/26/2018	DATE -	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	5
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

REV 5-21-18

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FEDERAL
				20% STATE
				ROADWAY
				0010
				S.N. 006-0188
51201900	FURNISHING STEEL PILES HP14X89	FOOT	1280	1280
51202305	DRIVING PILES	FOOT	1280	1280
51203900	TEST PILE STEEL HP14X89	EACH	4	4
51204650	PILE SHOES	EACH	28	28
51500100	NAME PLATES	EACH	1	1
52200010	TEMPORARY SHEET PILING	SQ FT	885	885
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	175	175
54213450	END SECTIONS 15"	EACH	5	5
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	52	52
60801015	FLAP GATE 15"	EACH	1	1
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	650	650
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	250	250
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1

\* SPECIALTY ITEMS

MODEL: S:\MODEL\NAMES  
FILE NAME: PILES

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED
PLOT DATE = 4/26/2018	CHECKED -	REVISED
	DATE -	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE. 698	SECTION (101 BR-2)BR	COUNTY BUREAU	TOTAL SHEETS 62	SHEET NO. 6
ILLINOIS FED. AID PROJECT CONTRACT NO. 66A21				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FEDERAL 20% STATE	ROADWAY 0010 S.N. 006-0188
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	3	3	
63200310	GUARDRAIL REMOVAL	FOOT	834	834	
* 66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	3	3	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
67100100	MOBILIZATION	LSUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	84	84	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	28	28	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3305	3305	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	210	210	

\* SPECIALTY ITEMS

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MODEL: \$MODELNAME\$  
FILE NAME: \$FILE\$

USER NAME = duncanbd	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED									698	(101 BR-2)BR	BUREAU	62	7
PLOT DATE = 4/26/2018	CHECKED -	REVISED	SCALE: SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				CONTRACT NO. 66A21				
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FEDERAL
				20% STATE
				ROADWAY
				0010
				S.N. 006-0188
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	45	45
70400100	TEMPORARY CONCRETE BARRIER	FOOT	375	375
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	325	325
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2942	2942
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	420	420
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	52	52
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9	9
X0321156	HIGH VISIBILITY TEMPORARY FENCING	FOOT	45	45
X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	4	4

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\* SPECIALTY ITEMS

MODEL: SMODELNAMER  
FILE NAME: F1E1E5

USER NAME = duncanbd	DESIGNED -	REVISED
	DRAWN -	REVISED
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED
PLOT DATE = 4/26/2018	DATE -	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 698	SECTION (101 BR-2)BR	COUNTY BUREAU	TOTAL SHEETS 62	SHEET NO. 8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66A21	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FEDERAL
				20% STATE
				ROADWAY
				0010
				S.N. 006-0188
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1297	1297
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	476	476
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	79	79
X6660410	REMOVE RIGHT-OF-WAY MARKERS	EACH	1	1
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	24	24
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	22	22
Z0004552	APPROACH SLAB REMOVAL	SQ YD	113	113
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	98	98

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MODEL: \$MODELNAME\$  
FILE NAME: \$FILE\$

USER NAME = duncanbd	DESIGNED -	REVISED
	DRAWN -	REVISED
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED
PLOT DATE = 4/26/2018	DATE -	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

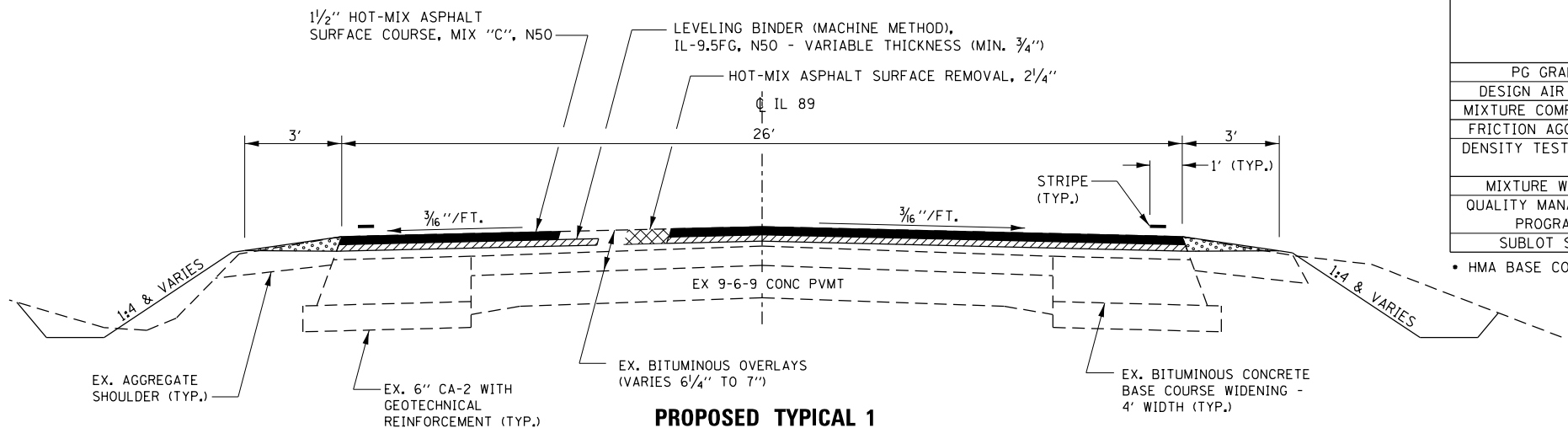
**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 698	SECTION (101 BR-2)BR	COUNTY BUREAU	TOTAL SHEETS 62	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66A21	

HMA MIXTURE REQUIREMENT TABLE						
	HMA SURFACE COURSE	HMA LEVEL BINDER	HMA BASE CSE AND HMA BINDER*	HMA SHOULDERS TOP LIFT	HMA SHOULDERS BOTTOM LIFT	INCIDENTAL HMA
PG GRADE	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4% @ N50	4% @ N50	4% @ N50	4% @ N50	4% @ N50	4% @ N50
MIXTURE COMPOSITION	IL-9.5	IL-9.5FG	IL-19.0	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE	MIXTURE C					
DENSITY TEST METHOD	CORES	GROWTH CURVE	CORES	CORES	CORES	SATISFACTION OF THE ENGINEER
MIXTURE WEIGHT	112 LB/SY/IN	112 LB/SY/IN	112 LB/SY/IN	112 LB/SY/IN	112 LB/SY/IN	112 LB/SY/IN
QUALITY MANAGEMENT PROGRAM	QC/OA	QC/OA	QC/OA	QC/OA	QC/OA	QC/OA
SUBLOT SIZE	N/A	N/A	N/A	N/A	N/A	N/A

\* HMA BASE COURSE AND HMA BINDER USED IN PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB



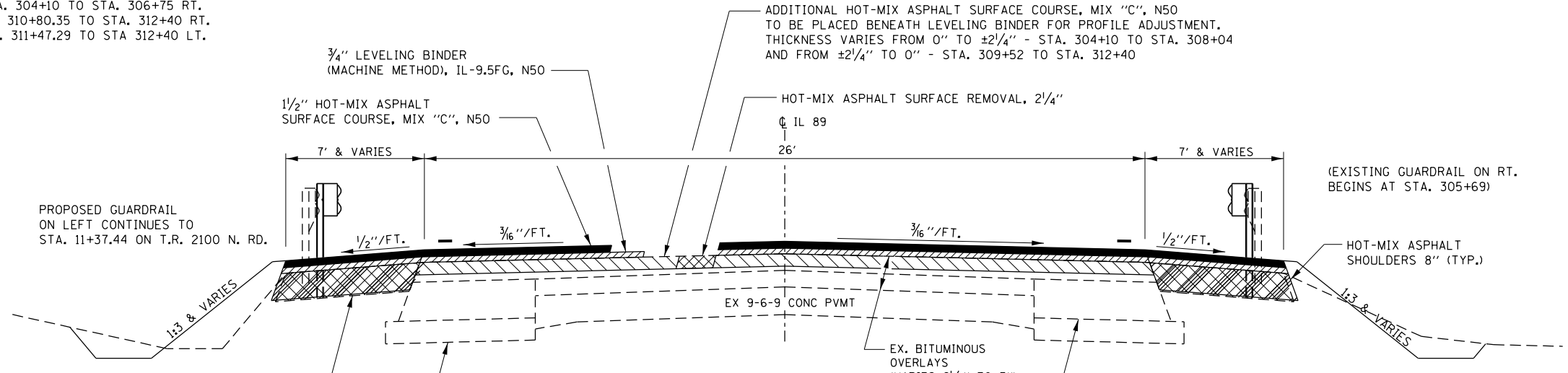
**PROPOSED TYPICAL 1**

STA. 304+10 TO STA. 306+64 LT.  
 STA. 304+10 TO STA. 306+75 RT.  
 STA. 310+80.35 TO STA. 312+40 RT.  
 STA. 311+47.29 TO STA. 312+40 LT.

PROPOSED S.N. 006-0188  
 STA. 308+44 TO STA. 309+12

BRIDGE APPROACHES  
 STA. 308+14 TO STA. 308+44  
 STA. 309+12 TO STA. 309+42

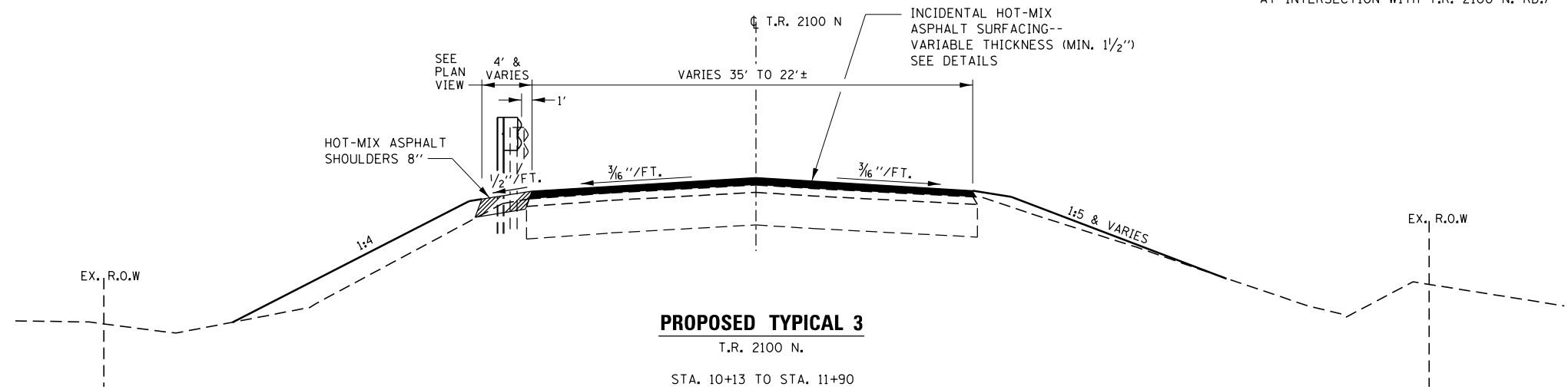
PAVEMENT CONNECTORS  
 STA. 308+04 TO STA. 308+14  
 STA. 309+42 TO STA. 309+52



**PROPOSED TYPICAL 2**

STA. 306+64 TO STA. 308+04 LT.  
 STA. 306+75 TO STA. 308+04 RT.  
 STA. 309+52 TO STA. 309+60 LT.  
 STA. 309+52 TO STA. 310+80.35 RT.

(STA. 309+60 TO STA. 311+47.29 LT.  
 AT INTERSECTION WITH T.R. 2100 N. RD.)



**PROPOSED TYPICAL 3**

T.R. 2100 N.  
 STA. 10+13 TO STA. 11+90

MAINLINE SCHEDULE											
LOCATION	AREA	BIT MATERIALS TACK COAT	LEVELING BINDER (MM), N50	HMA SURF COURSE, MIX C, N50 (1-1/2" THICKNESS)	ADDITIONAL HMA SURF COURSE, MIX C, N50 (THICKNESS VARIES)	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH	AGG WEDGE SHOULDER TY B	TEMP RAMP	HMA SURF REM 2 1/4"	LEVELING BINDER (HM), N50	MIX FOR CRACKS, JTS & FLGWYS
STATION TO STATION	SQ YD	LBS	TON	TON	TON	SQ YD	TON	SQ YD	SQ YD	TON	TON
304+10.00	308+04.00	1138	1024	48	96	74		15	43.3	1138	0.6
308+04.00	308+14.00	29				36					
308+14.00	309+42.00	SN 006-0106 AND APPROACHES									
309+42.00	309+52.00	29				36					
309+52.00	312+40.00	832	749	35	70	41	7	43.3	832	0.4	0.2
<b>TOTALS</b>			<b>1773</b>	<b>83</b>	<b>166</b>	<b>115</b>	<b>71</b>	<b>22</b>	<b>87</b>	<b>1970</b>	<b>1.0</b>

PAVEMENT REMOVAL SCHEDULE			
LOCATION	PAVEMENT REMOVAL	APPROACH SLAB REMOVAL	PAVED SHOULDER REMOVAL
STATION	SQ YD	SQ YD	SQ YD
STA. 304+77.71 TO STA. 308+53.65 RT.			263
STA. 306+19.19 TO STA. 308+53.65 LT.			173
STA. 308+04 TO STA. 308+33.66	86		
STA. 308+33.66 TO STA. 308+53.65		58	
STA. 309+02.49 TO STA. 309+21.96		55	
STA. 309+21.96 TO STA. 309+52	87		
STA. 309+02.49 TO STA. 310+11.35 LT.			58
STA. 309+02.49 TO STA. 310+87.91 RT.			132
<b>TOTALS</b>	<b>173</b>	<b>113</b>	<b>626</b>

SIDEROAD SCHEDULE			
LOCATION	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	INCIDENTAL HOT-MIX ASPHALT SURFACING	HMA SHOULDERS, 8"
STATION	SQ YD	TON	SQ YD
TR 145 / 2100 N ROAD	476	110	115
<b>TOTALS</b>	<b>476</b>	<b>110</b>	<b>115</b>

HMA SHOULDER QUANTITIES BEGIN AT STA. 309+60 (IL 89)

EARTHWORK					
LOCATION	SIDE	EARTH EXCAVATION	EARTH EX ADJUST FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE - WASTE (+) OR SHORTAGE (-)
STATION		CU YD	CU YD	CU YD	CU YD
STA. 304+10 TO STA. 308+43	LT	64	48.0	248.6	-200.6
STA. 304+10 TO STA. 308+43	RT	349.3	262.0	134.4	127.6
STA. 309+13 to STA. 312+50	LT	21.9	16.4	76.8	-60.4
STA. 309+13 to STA. 312+50	RT	36.3	27.2	156.8	-129.6
2100 N ROAD	LT & RT	11.3	8.5	75.9	-67.4
<b>TOTALS</b>		<b>482.8</b>	<b>362.1</b>	<b>692.5</b>	<b>-330.4</b>

**EARTHWORK NOTES:**

1. ESTIMATED SHRINKAGE FACTOR = 25%.
2. THE ENGINEER SHALL DETERMINE IF EXCAVATION IS SUITABLE FOR USE AS FILL MATERIAL.

ENTRANCE & CULVERT SCHEDULE										
LOCATION	ENTRANCE TYPE	ENTRANCE WIDTH	ENTRANCE LENGTH	EXISTING SURFACE TYPE	AGG SURF CSE TY B	PIPE CULVERTS, CLASS D, TYPE I 15"	METAL END SECTIONS 15"	FLAP GATE 15"	PIPE CULVERT REMOVAL	FURNISHED EXCAVATION
STATION		FOOT	FOOT		TON	FOOT	EACH	EACH	FOOT	CU YD
305+33 RT	FE	24	36	AGG.	18	40	2			10
311+23 RT	FE	24	36	AGG.	22	110	2		92	10
308+40 RT	N/A	N/A	N/A	N/A		25	1	1		
<b>TOTALS</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>40</b>	<b>175</b>	<b>5</b>	<b>1</b>	<b>92</b>	<b>20</b>

GUARDRAIL AND HMA SHOULDERS									
LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TY. A 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TY. 1 (SPECIAL) FLARED	TRAFFIC BARRIER TERMINAL, TY. 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	LINEAR DELINEATOR PANELS, 6 INCH	HMA SHOULDERS, 8"
STATION	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	SQ YD
NW QUADRANT	285	50	1	1		1	2	1	104
NE QUADRANT	197	25	1	1		1	2	1	98
SW QUADRANT	148	50	1	1		1	2	1	103
SE QUADRANT	204	125	1		1	1	2	1	21
<b>TOTALS</b>	<b>834</b>	<b>250</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>8</b>	<b>4</b>	<b>326</b>

HMA SHOULDER QUANTITY FOR SE QUADRANT TO STA. 309+60 (IL 89)

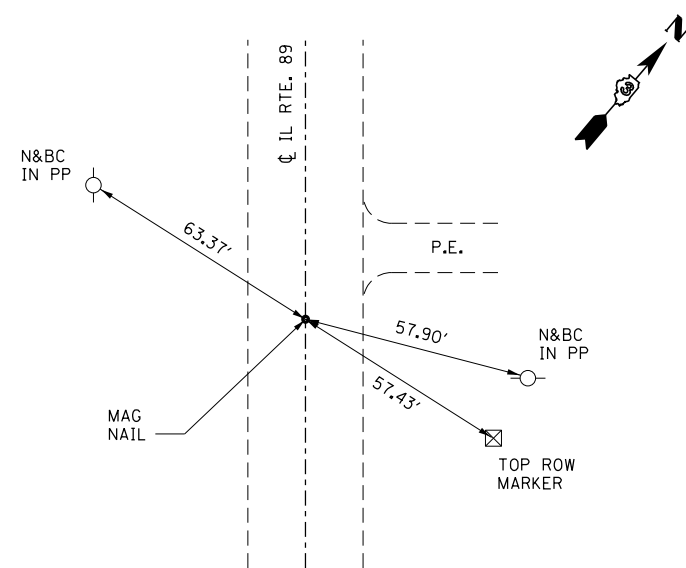
PAVEMENT MARKING SCHEDULE											
STATION	TEMPORARY PVMT MRK LINE 4" (WHITE)	TEMPORARY PVMT MRK LINE 6" (YELLOW)	TEMPORARY PVMT MRK LINE 24" (WHITE)	PAINT PVMT MRK LINE 4" (WHITE)	PAINT PVMT MRK LINE 24" (WHITE)	PAINT PVMT MRK LINE 6" (YELLOW)	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL WATER BLASTING	RAISED REFL PAVEMENT MARKER	RAISED REFL PAVEMENT MARKER REMOVAL
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT	EACH	EACH
304+10 TO 312+40	1471	210		2942		420	84	28	595.3	9	9
STAGE 1	1078		26						359.3		
STAGE 2	756								304		
SIDEROAD			19		52				38		
<b>TOTALS</b>	<b>3305</b>	<b>210</b>	<b>45</b>	<b>2942</b>	<b>52</b>	<b>420</b>	<b>84</b>	<b>28</b>	<b>1297</b>	<b>9</b>	<b>9</b>

NOTE: PAINT PAVEMENT MARKING QUANTITIES ARE FOR TWO APPLICATIONS

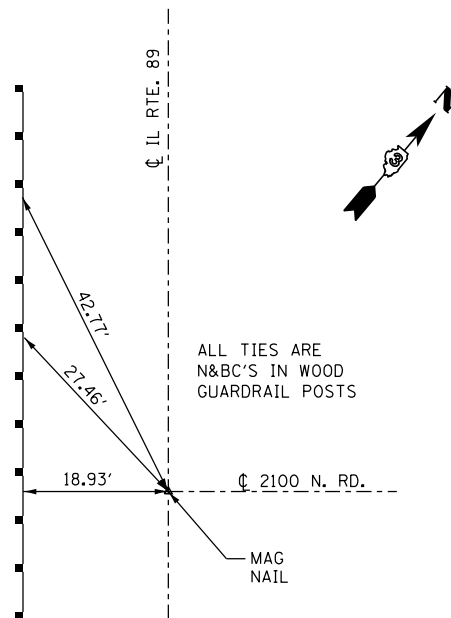
SEEDING & EROSION CONTROL										
LOCATION	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	TEMP EROS CONTROL SEED	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION	PERIMETER EROSION BARRIER	
STATION	ACRE	POUND	POUND	POUND	SQ YD	POUND	FOOT	EACH	FOOT	
NW QUADRANT	0.25	22.8	22.8	22.8	1226.8	25.3	10	2	120	
NE QUADRANT	0.23	20.8	20.8	20.8	1118.9	23.1	10		205	
SW QUADRANT	0.13	12.0	12.0	12.0	646.3	13.4	10	1	128	
SE QUADRANT	0.19	17.1	17.1	17.1	919.8	19.0	10	1	339	
<b>TOTALS</b>	<b>0.81</b>	<b>73</b>	<b>73</b>	<b>73</b>	<b>3912</b>	<b>81</b>	<b>40</b>	<b>4</b>	<b>792</b>	

FURNISHING AND ERECTING RIGHT OF WAY MARKERS		
STATION	SIDE	EACH
STA. 309+01.54	51.23' LT.	1
STA. 309+11.08	66.00' LT.	1
STA. 309+77.67	66.00' LT.	1
<b>TOTALS</b>		<b>3</b>

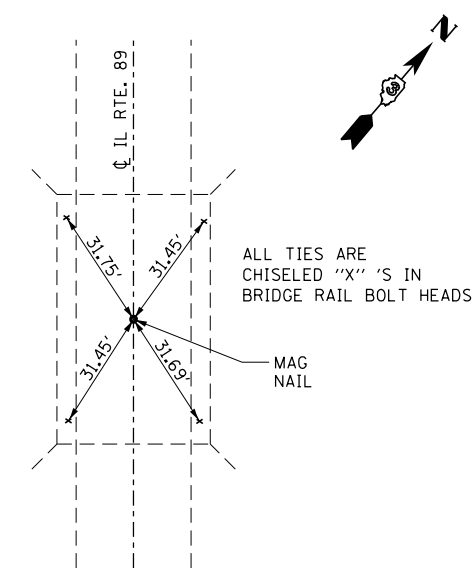
TRAFFIC CONTROL ITEMS				
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMP CONC BARRIER	IMPACT ATTEN'S TEMP (NON REDIR) TEST LEVEL 3	IMPACT ATTEN'S RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3
STATION	FOOT	FOOT	EACH	EACH
STAGE 1	325		2	
STAGE 2	50	325		2
<b>TOTALS</b>	<b>375</b>	<b>325</b>	<b>2</b>	<b>2</b>



PNT. 200 P.O.T (43)  
STA. 328+12.84

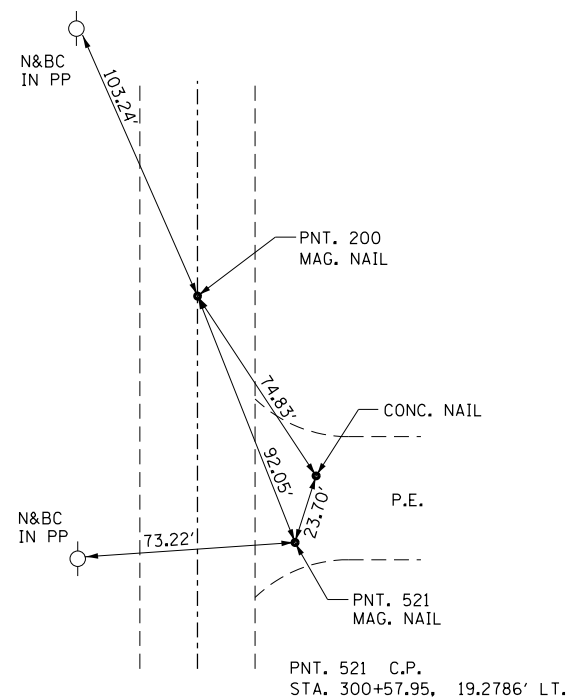


PNT. 299 P.I. (42) (50)  
STA. 310+43.49 RTE. 89 =  
STA. 10+00.00 2100 N. RD.



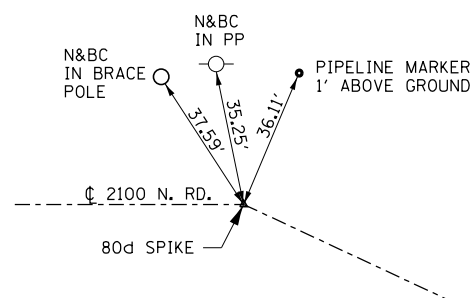
PNT. 201 C.BRIDGE P.O.T (41)  
STA. 308+78.00

ILL. ROUTE 89		LOCATION: BRUSH CREEK, 1.2 MILES SOUTH OF ARLINGTON			BUREAU COUNTY
INDEX NUMBER	DESCRIPTION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
	NO CENTERLINE PERMANENT SURVEY MARKERS OR SECTION CORNERS ARE TO BE SET FOR THIS JOB				
PRE CONSTRUCTION, THE R.E. MUST TIE AND BRING TO THE ATTENTION OF THE PLATS AND PLANS MANAGER ANY UNLISTED MONUMENTS FOUND.					

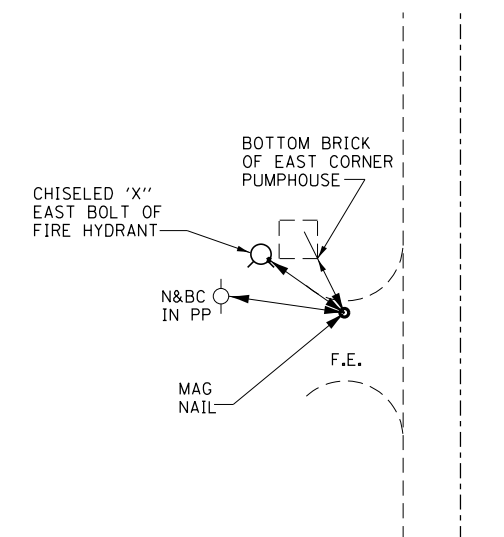


PNT. 202 P.O.T (40)  
STA. 299+68.00

PNT. 521 C.P.  
STA. 300+57.95, 19.2786' LT.



PNT. 304 P.I.  
STA. 13+40.19



FILE NAME =	USER NAME = GedyRA	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

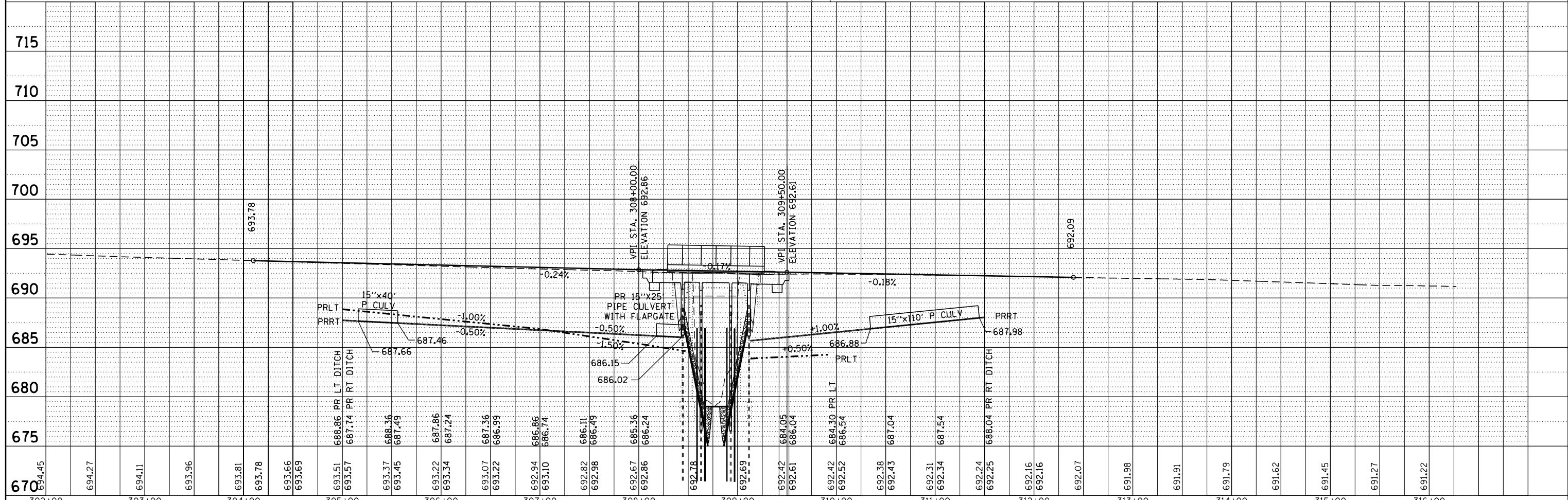
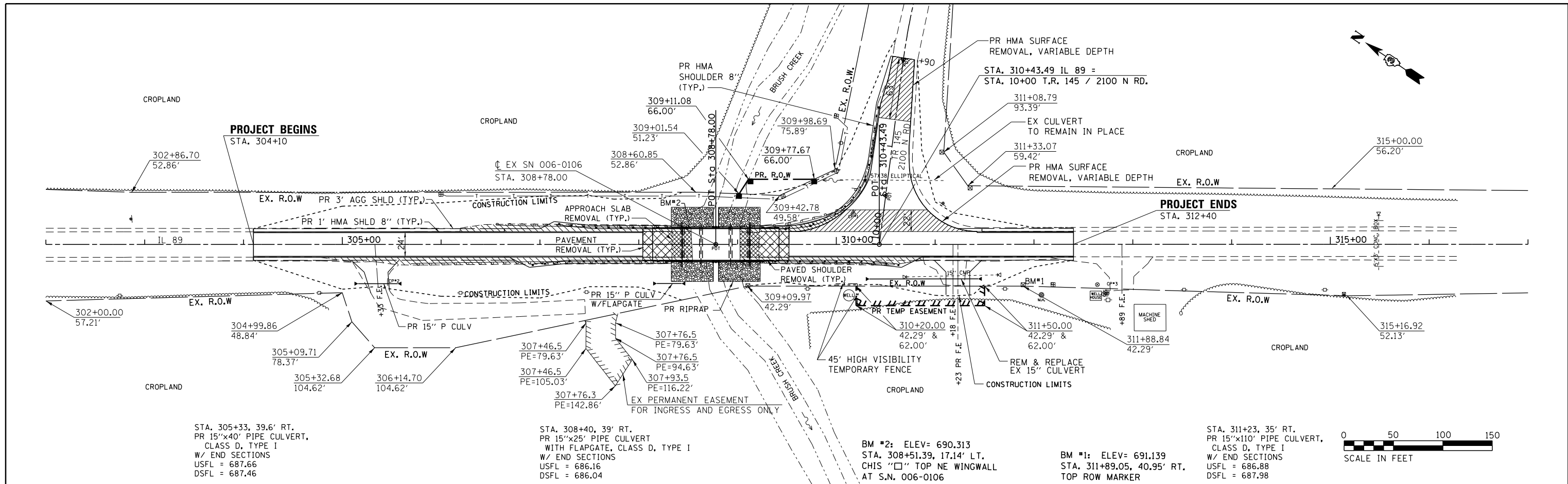
TIE POINTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	13
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
DESIGNED	
NO. _____	
PLAN	
NOTE BOOK	
NO. _____	

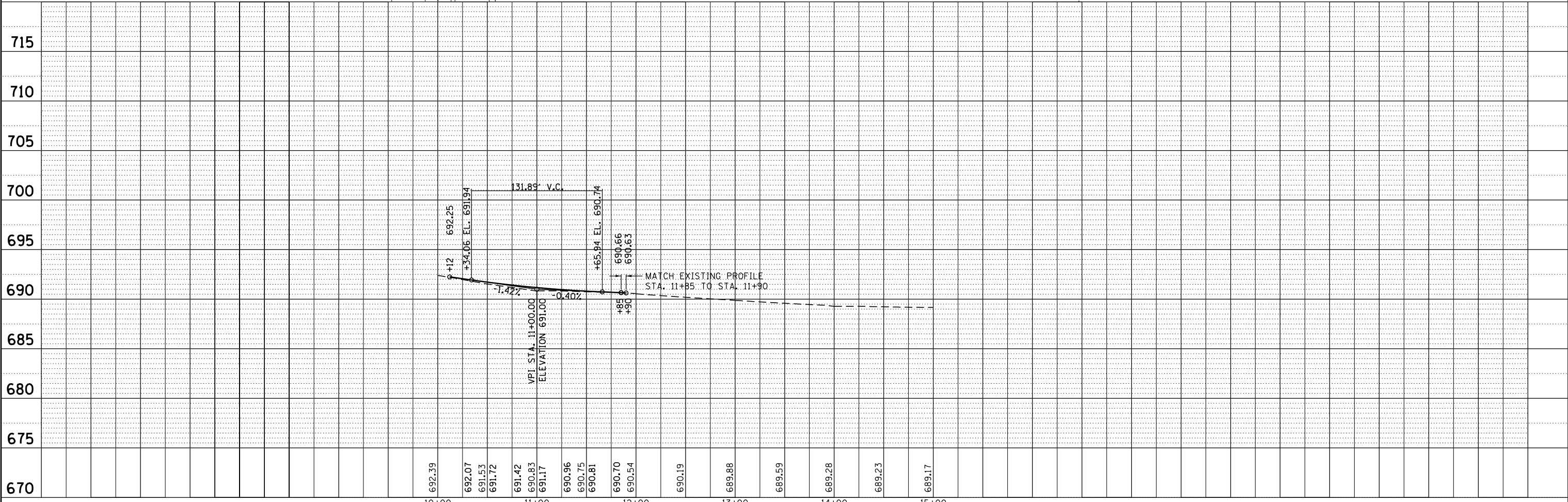
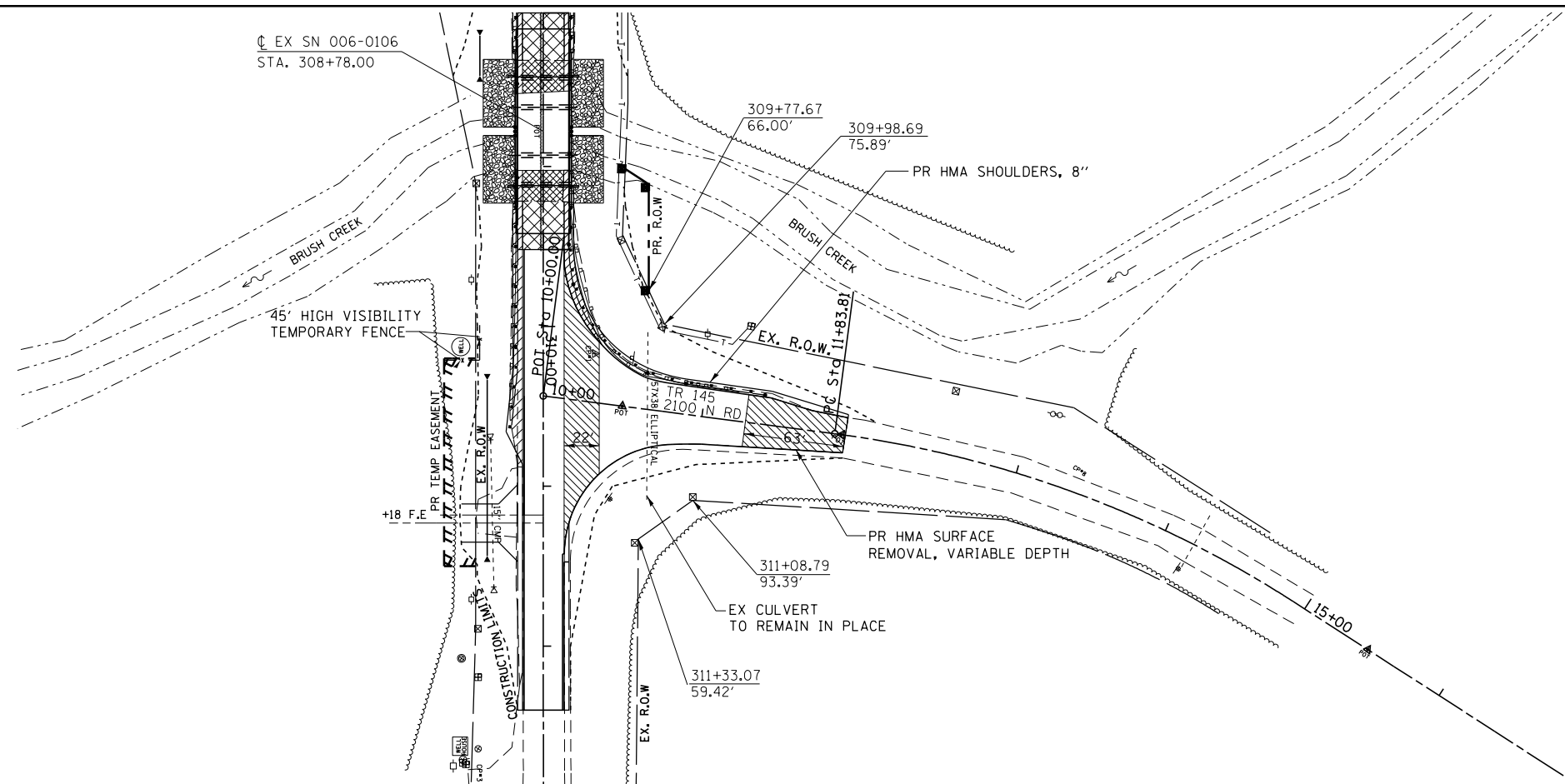
DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE	
NOTATIONS CHECKED	
NO. _____	
PROFILE	
NOTE BOOK	
NO. _____	



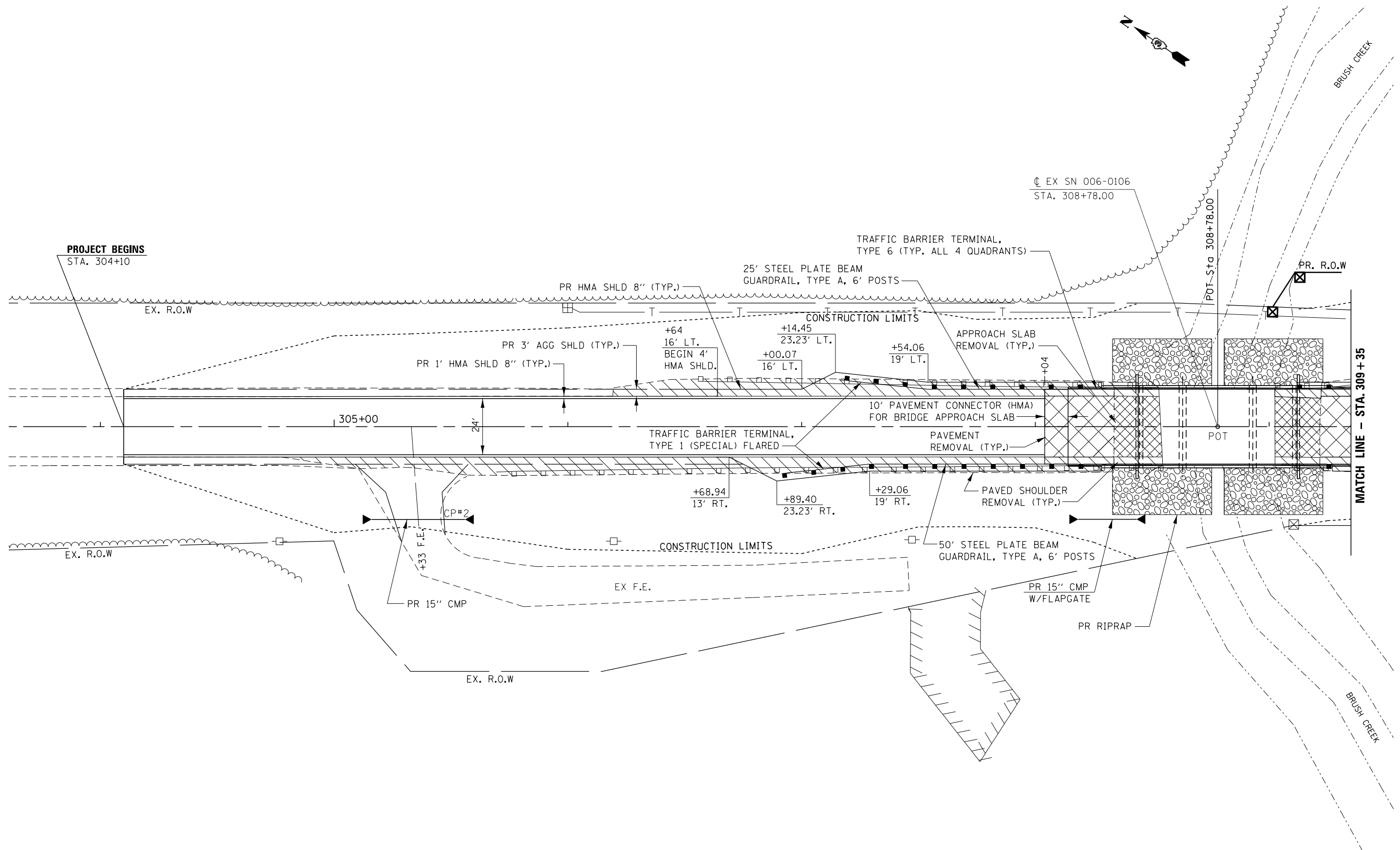
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PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -	SCALE: _____			
PLOT DATE = 8/15/2017	DATE -	REVISED -	SHEET NO. _____ OF _____ SHEETS			
			STA. 305+00.00 TO STA. 311+50.00			

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		



FILE NAME =	USER NAME = GedyRA	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>PLAN AND PROFILE</b> <b>2100 N ROAD - SN 006-0106</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 8/15/2017	DATE -	REVISED -	REVISED -					CONTRACT NO. 66A21				
								ILLINOIS FED. AID PROJECT				



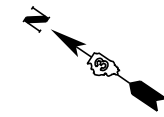
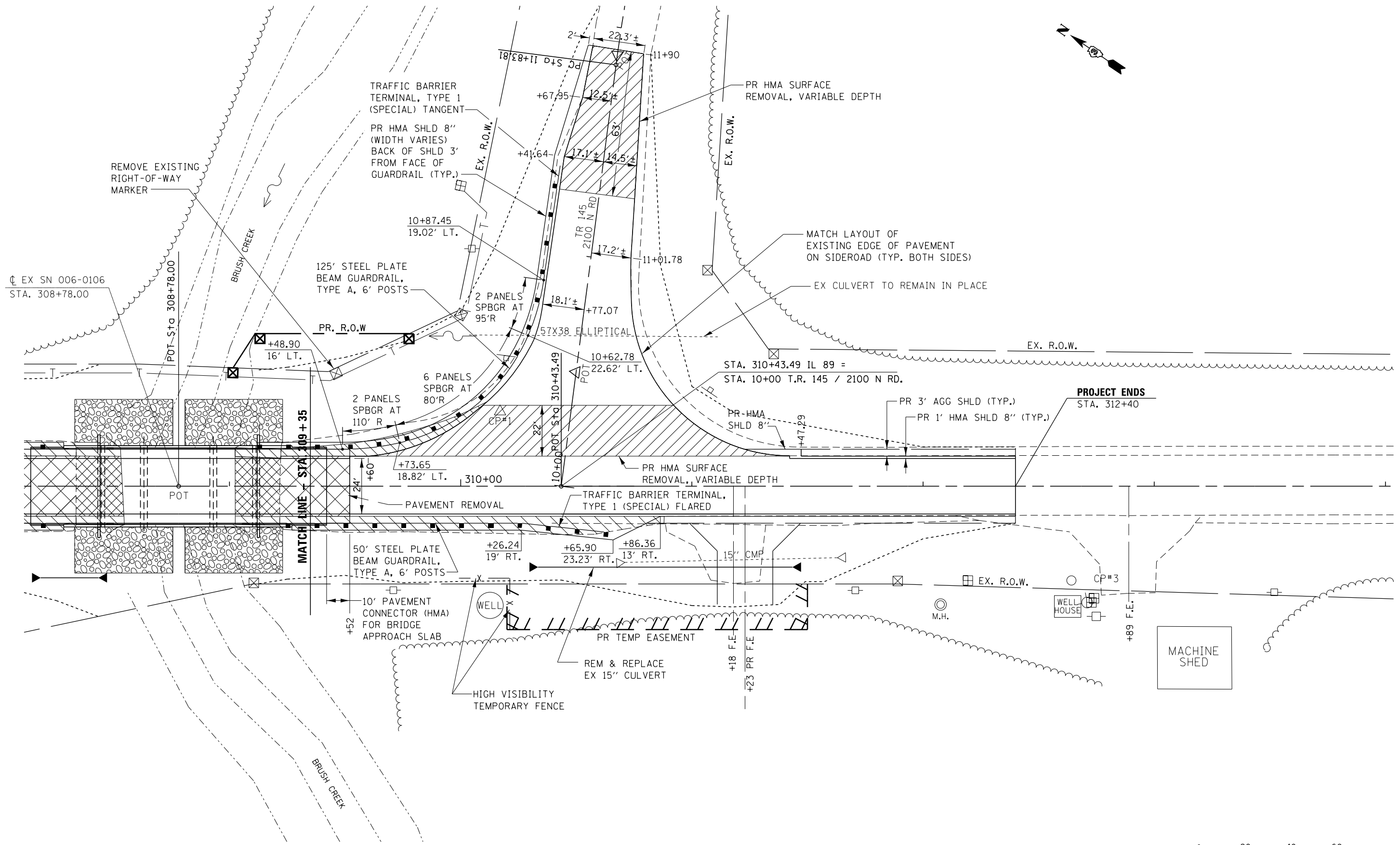
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	PLOT DATE = 8/15/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

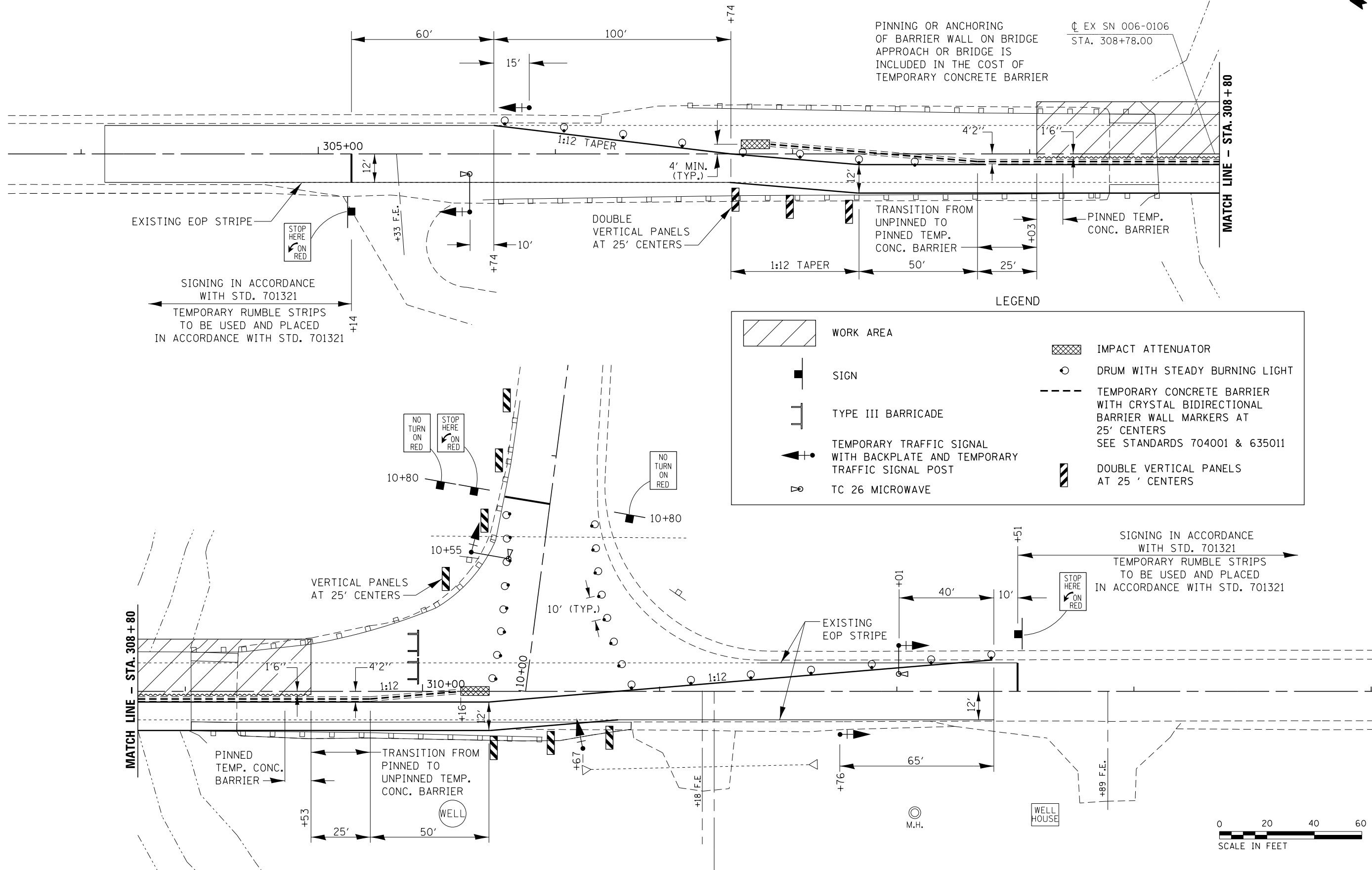
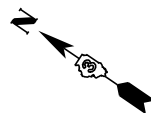
<b>PLAN VIEW</b>			
SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	16
CONTRACT NO. 66A21			ILLINOIS FED. AID PROJECT	





FILE NAME =	USER NAME = GedyRA	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN VIEW</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 66A21				
	PLOT DATE = 8/15/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



PINNING OR ANCHORING OF BARRIER WALL ON BRIDGE APPROACH OR BRIDGE IS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER

EX SN 006-0106  
STA. 308+78.00

MATCH LINE - STA. 308+80

EXISTING EOP STRIPE  
STOP HERE ON RED  
SIGNING IN ACCORDANCE WITH STD. 701321  
TEMPORARY RUMBLE STRIPS TO BE USED AND PLACED IN ACCORDANCE WITH STD. 701321

LEGEND

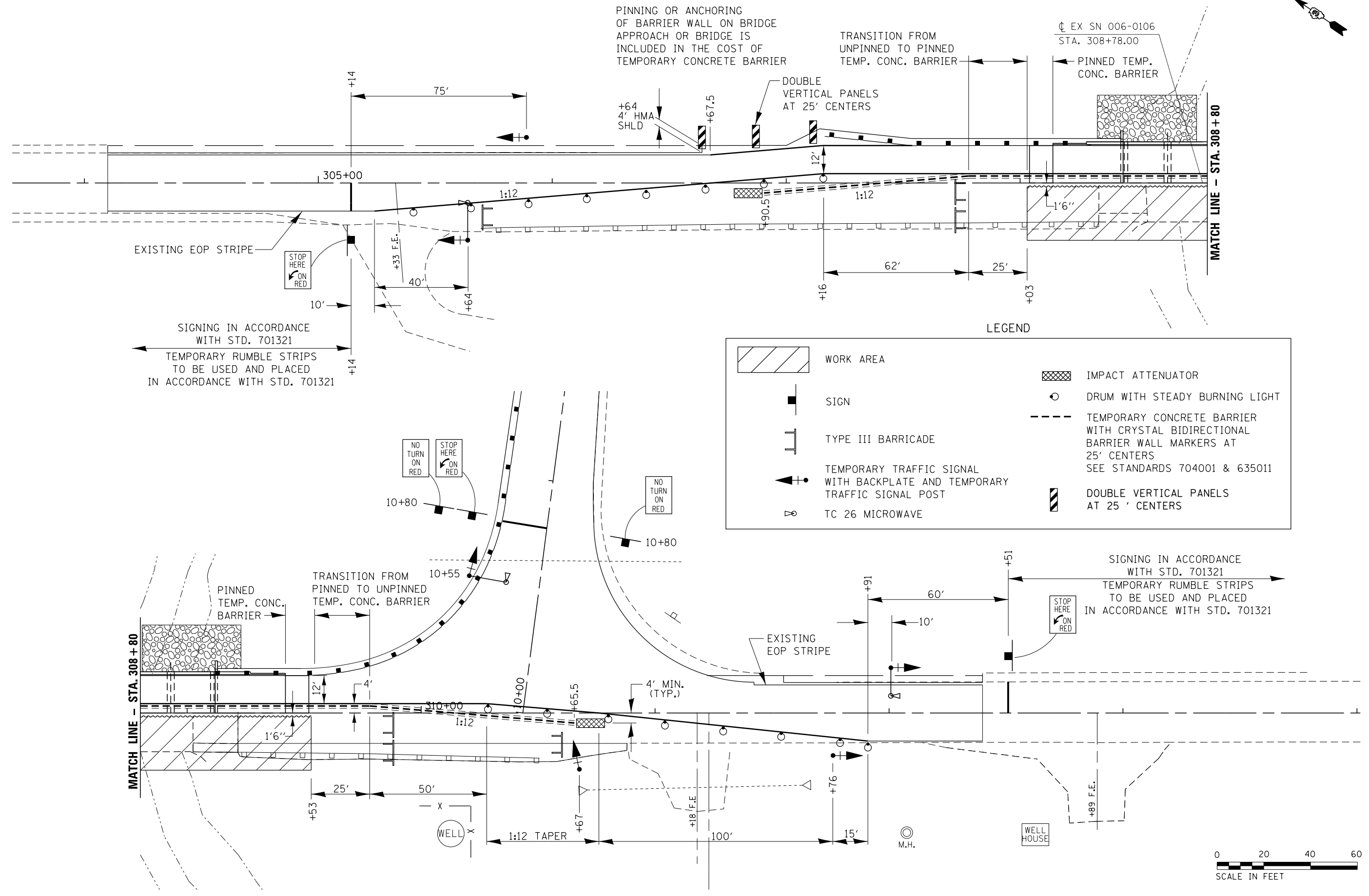
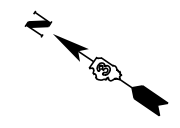
- WORK AREA
- SIGN
- TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGNAL WITH BACKPLATE AND TEMPORARY TRAFFIC SIGNAL POST
- TC 26 MICROWAVE
- IMPACT ATTENUATOR
- DRUM WITH STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WITH CRYSTAL BIDIRECTIONAL BARRIER WALL MARKERS AT 25' CENTERS SEE STANDARDS 704001 & 635011
- DOUBLE VERTICAL PANELS AT 25' CENTERS

MATCH LINE - STA. 308+80

SIGNING IN ACCORDANCE WITH STD. 701321  
TEMPORARY RUMBLE STRIPS TO BE USED AND PLACED IN ACCORDANCE WITH STD. 701321



FILE NAME =	USER NAME = GedyRA	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE 1 TRAFFIC CONTROL</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -		SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 66A21		ILLINOIS FED. AID PROJECT		



PINNING OR ANCHORING OF BARRIER WALL ON BRIDGE APPROACH OR BRIDGE IS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER

TRANSITION FROM UNPINNED TO PINNED TEMP. CONC. BARRIER

EX SN 006-0106 STA. 308+78.00

PINNED TEMP. CONC. BARRIER

DOUBLE VERTICAL PANELS AT 25' CENTERS

+64  
4' HMA SHLD

+67.5

305+00

1:12

1:12

MATCH LINE - STA. 308+80

EXISTING EOP STRIPE

STOP HERE ON RED

+33 F.E.

40'

+64

SIGNING IN ACCORDANCE WITH STD. 701321

TEMPORARY RUMBLE STRIPS TO BE USED AND PLACED IN ACCORDANCE WITH STD. 701321

+14

+14

+16

62'

25'

+03

LEGEND

	WORK AREA		IMPACT ATTENUATOR
	SIGN		DRUM WITH STEADY BURNING LIGHT
	TYPE III BARRICADE		TEMPORARY CONCRETE BARRIER WITH CRYSTAL BIDIRECTIONAL BARRIER WALL MARKERS AT 25' CENTERS SEE STANDARDS 704001 & 635011
	TEMPORARY TRAFFIC SIGNAL WITH BACKPLATE AND TEMPORARY TRAFFIC SIGNAL POST		DOUBLE VERTICAL PANELS AT 25' CENTERS
	TC 26 MICROWAVE		

NO TURN ON RED

STOP HERE ON RED

10+80

NO TURN ON RED

10+80

10+55

PINNED TEMP. CONC. BARRIER

TRANSITION FROM PINNED TO UNPINNED TEMP. CONC. BARRIER

MATCH LINE - STA. 308+80

12'

4'

10+00

1:12

+65.5

4' MIN. (TYP.)

1'6"

+53

25'

50'

1:12 TAPER

+67

+18 F.E.

100'

+76

M.H.

WELL HOUSE

+89 F.E.

+91

60'

10'

+51

SIGNING IN ACCORDANCE WITH STD. 701321





TEMPORARY RUMBLE STRIPS TO BE USED AND PLACED IN ACCORDANCE WITH STD. 701321

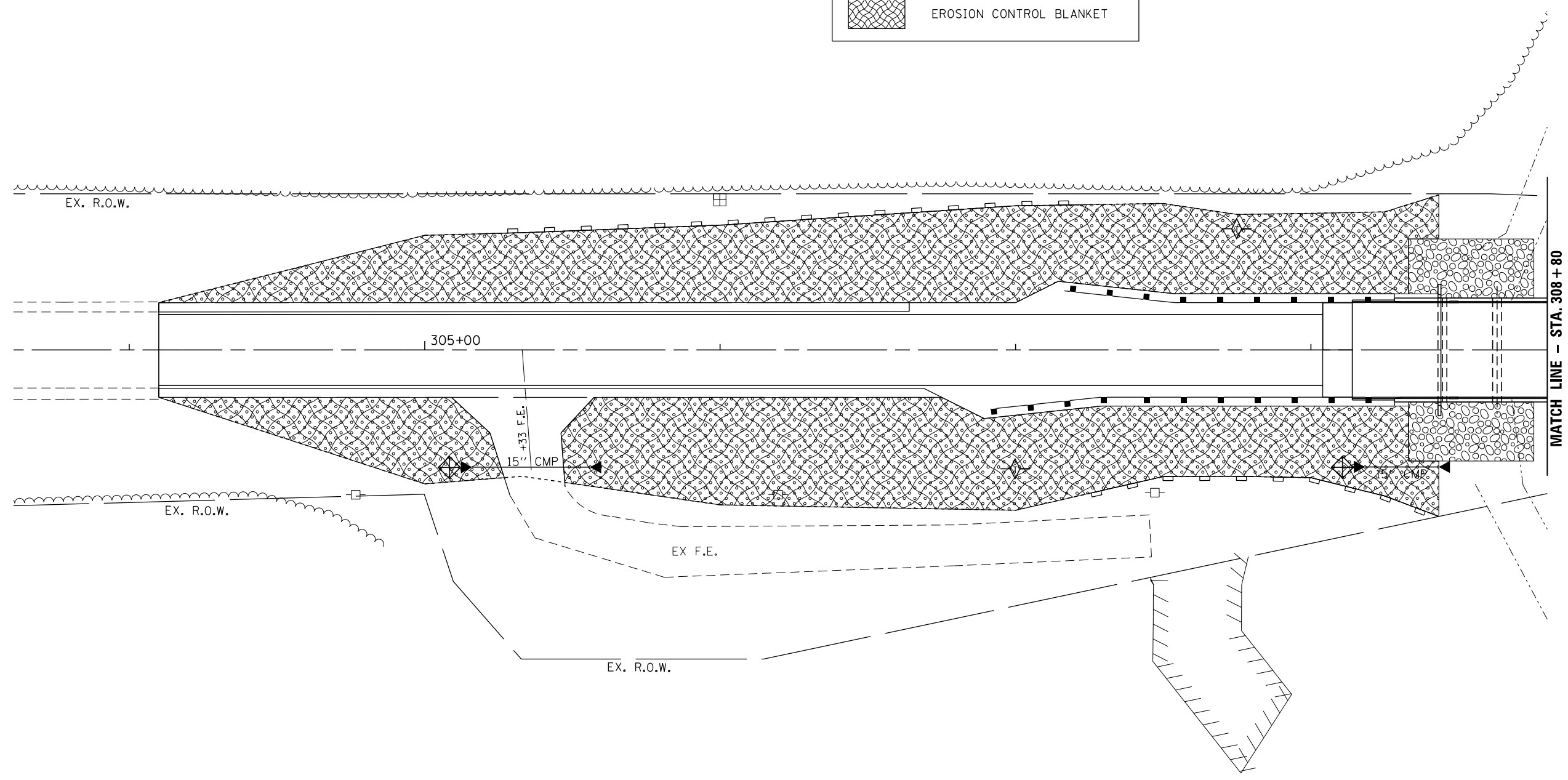
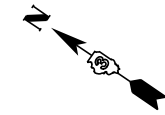
STOP HERE ON RED



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pw:\IL\084EBIDINTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 3\Projects\03666\Drawings\03666\03666A21-sht-Stage2-TrafficControl.dgn		CHECKED -	REVISED -		698	(101 BR-2)BR	BUREAU	62	19				
Default	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -		CONTRACT NO. 66A21				ILLINOIS FED. AID PROJECT				

LEGEND

	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECK
	SEEDING, CLASS 2A
	EROSION CONTROL BLANKET



MATCH LINE - STA. 308 + 80



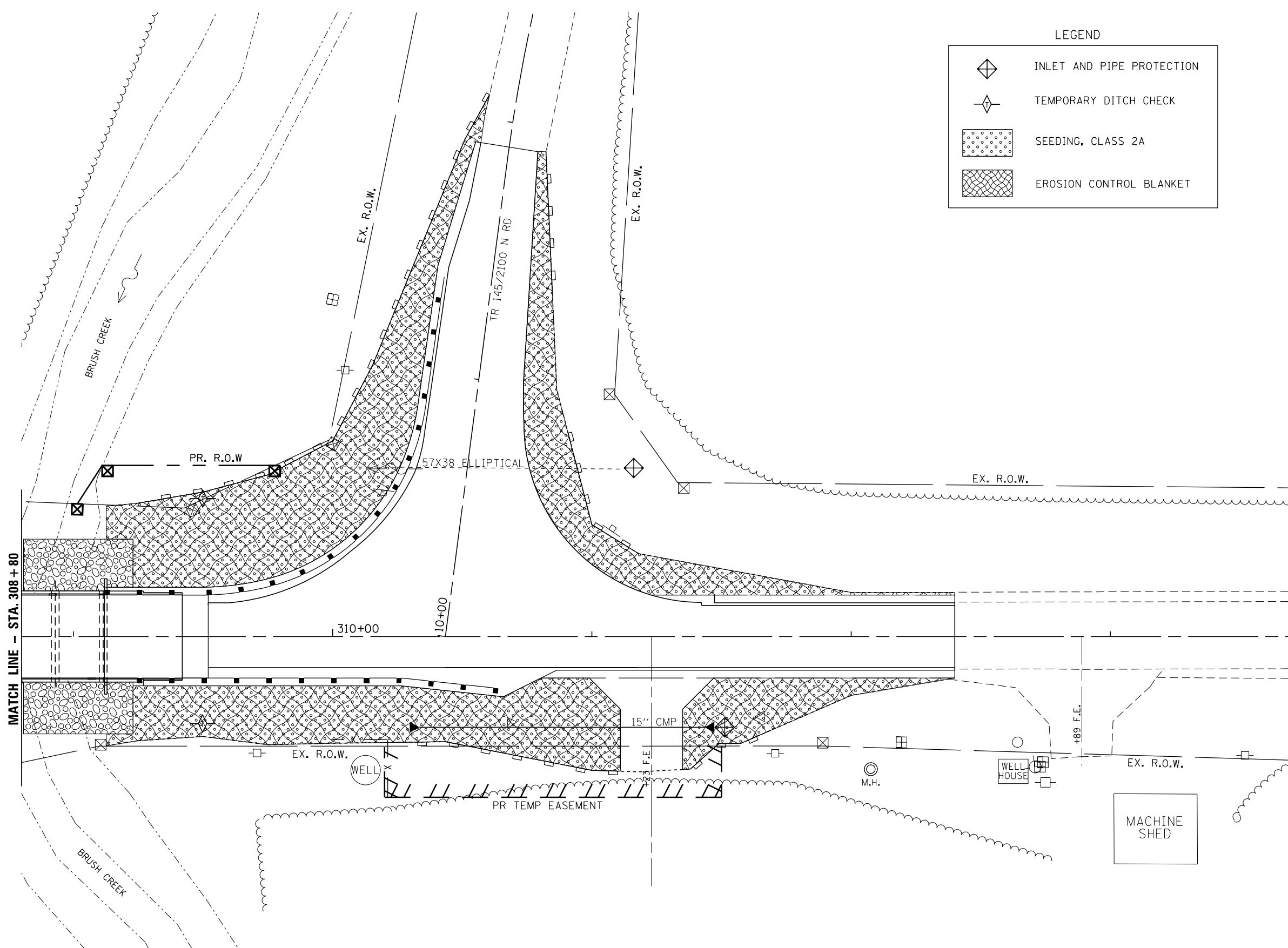
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL**

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	20
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				



LEGEND

	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECK
	SEEDING, CLASS 2A
	EROSION CONTROL BLANKET



FILE NAME =	USER NAME = GedyRA	DESIGNED -	REVISED -
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2017	DATE -	REVISED -

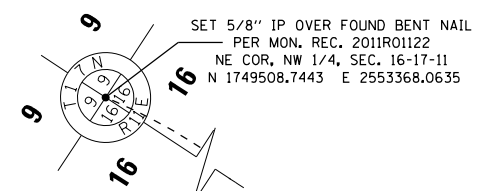
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL**

SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	21
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

- LEGEND -
- ① = STA. 308+60.85 OFFSET 52.86' FND 5/8" IP
  - ② = STA. 309+46.06 OFFSET 49.08' R.O.W. MARKER
  - ③ = STA. 309+98.54 OFFSET 75.85' FND 5/8" IP
  - ④ = STA. 12+51.67 OFFSET 39.68' R.O.W. MARKER
  - ⑤ = STA. 311+08.27 OFFSET 93.31' R.O.W. MARKER
  - ⑥ = STA. 311+35.20 OFFSET 59.20' R.O.W. MARKER
  - ⑦ = STA. 304+99.84 OFFSET 48.83' FND 5/8" IP
  - ⑧ = STA. 305+09.68 OFFSET 78.42' FND 5/8" IP
  - ⑨ = STA. 305+32.66 OFFSET 104.55' FND 5/8" IP
  - ⑩ = STA. 309+10.03 OFFSET 42.26' FND 5/8" IP
  - ⑪ = STA. 311+88.84 OFFSET 42.27' FND 5/8" IP
  - ⑫ = STA. 13+02.28 OFFSET 29.69' FND 5/8" IP

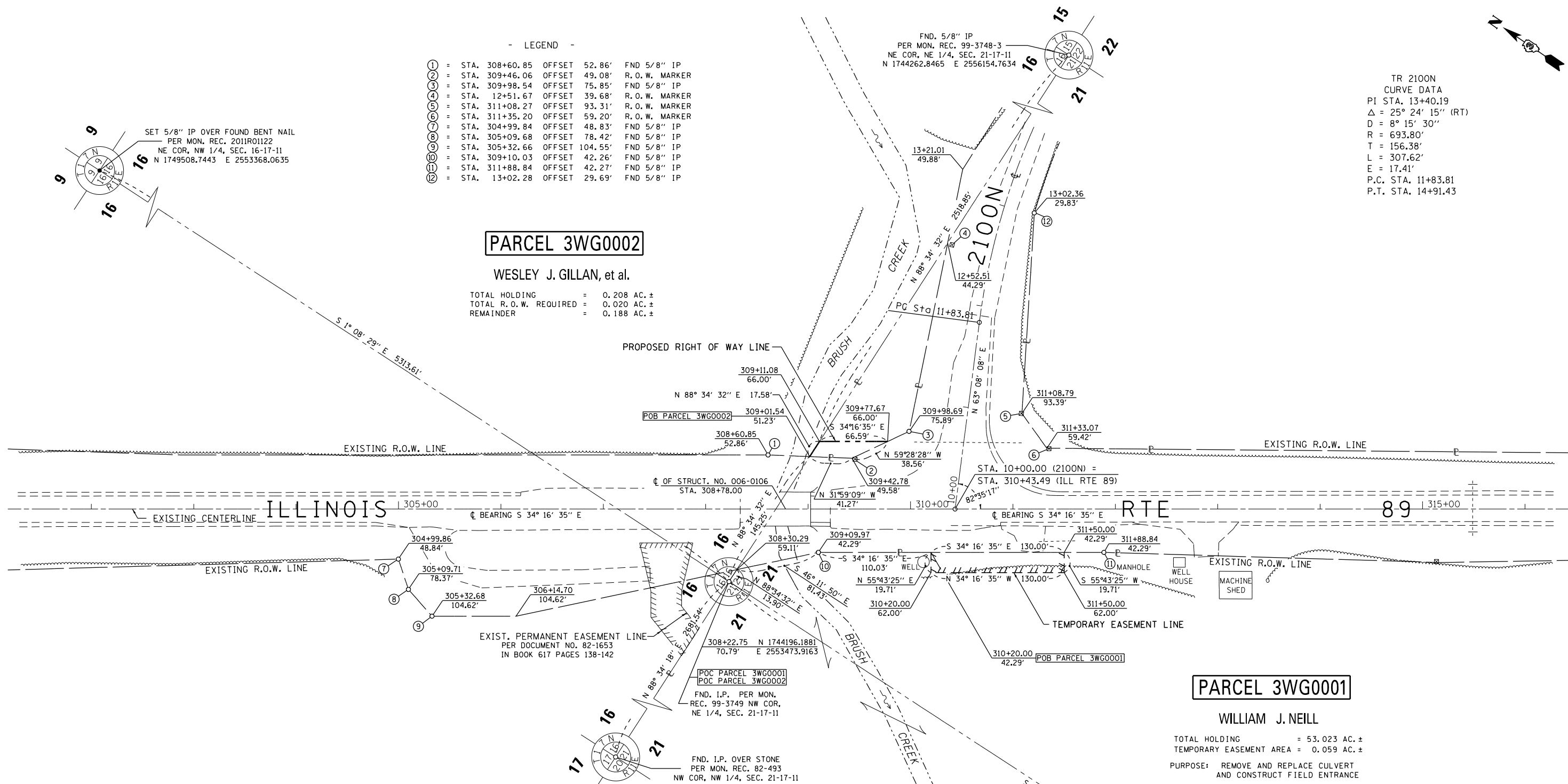


TR 2100N  
 CURVE DATA  
 PI STA. 13+40.19  
 $\Delta = 25^\circ 24' 15''$  (RT)  
 D = 8° 15' 30"  
 R = 693.80'  
 T = 156.38'  
 L = 307.62'  
 E = 17.41'  
 P.C. STA. 11+83.81  
 P.T. STA. 14+91.43

**PARCEL 3WG002**

WESLEY J. GILLAN, et al.

TOTAL HOLDING = 0.208 AC. ±  
 TOTAL R.O.W. REQUIRED = 0.020 AC. ±  
 REMAINDER = 0.188 AC. ±



**PARCEL 3WG001**

WILLIAM J. NEILL

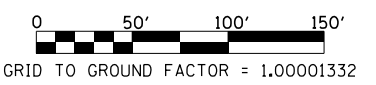
TOTAL HOLDING = 53.023 AC. ±  
 TEMPORARY EASEMENT AREA = 0.059 AC. ±  
 PURPOSE: REMOVE AND REPLACE CULVERT  
 AND CONSTRUCT FIELD ENTRANCE

**SURVEYOR'S STATEMENT**

I, CURT A. BENDER, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF F.A.P. 698 (ILLINOIS RTE 89) WAS MADE BY WILLETT HOFMANN & ASSOCIATES, INC. UNDER MY DIRECTION, AT THE REQUEST OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

CURT A. BENDER, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3688 (EXPIRES NOVEMBER 2012)  
 WILLETT, HOFMANN & ASSOCIATES, INC. - DESIGN FIRM NO. 184-000918

**WILLET, HOFMANN & ASSOCIATES, INC.**  
 CONSULTING ENGINEERS  
 Land Surveying - Transportation - Structural  
 Environmental - Architecture  
 809 East Second Street Dixon, Illinois 61021  
 Phone 815.284.3361 Fax 815.284.3365  
 Design Firm #184-000918  
 www.willett-hofmann.com



NOTE: FOR THE PURPOSE OF THIS PLAT, BEARINGS, GRID DISTANCES, AND AREAS ARE BASED UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, (NAD-83, 2007 ADJ.).

DESIGNED -	REVISED 2-23-16 PARCEL 1 NAME G.W.
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS	
PROJECT	JOB NO. R-93-013-10
SCALE: 1" = 50'	SHEET NO. 1 OF 1 SHEET
STA. 305+00.00 TO STA. 311+50.00	STA. 305+00.00 TO STA. 311+50.00

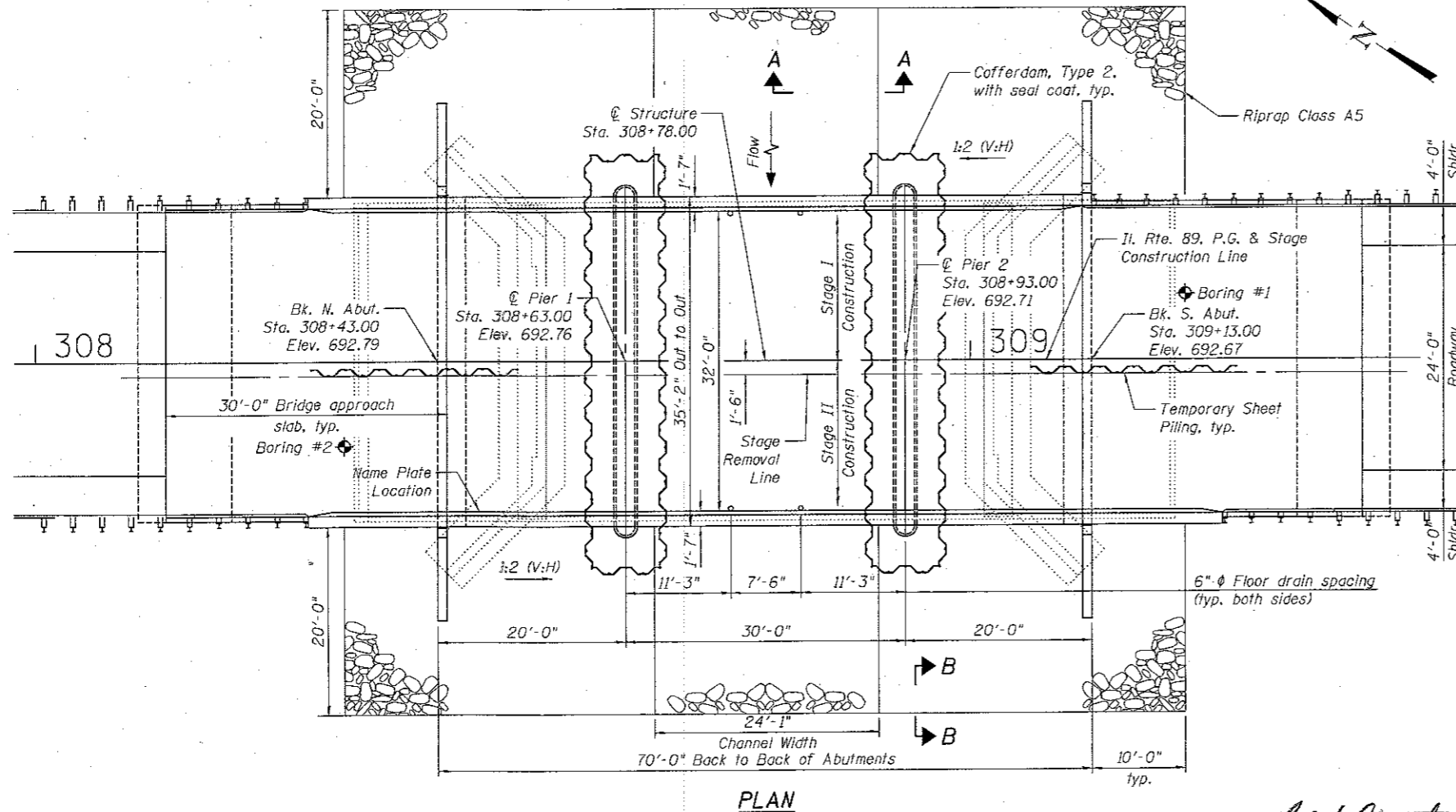
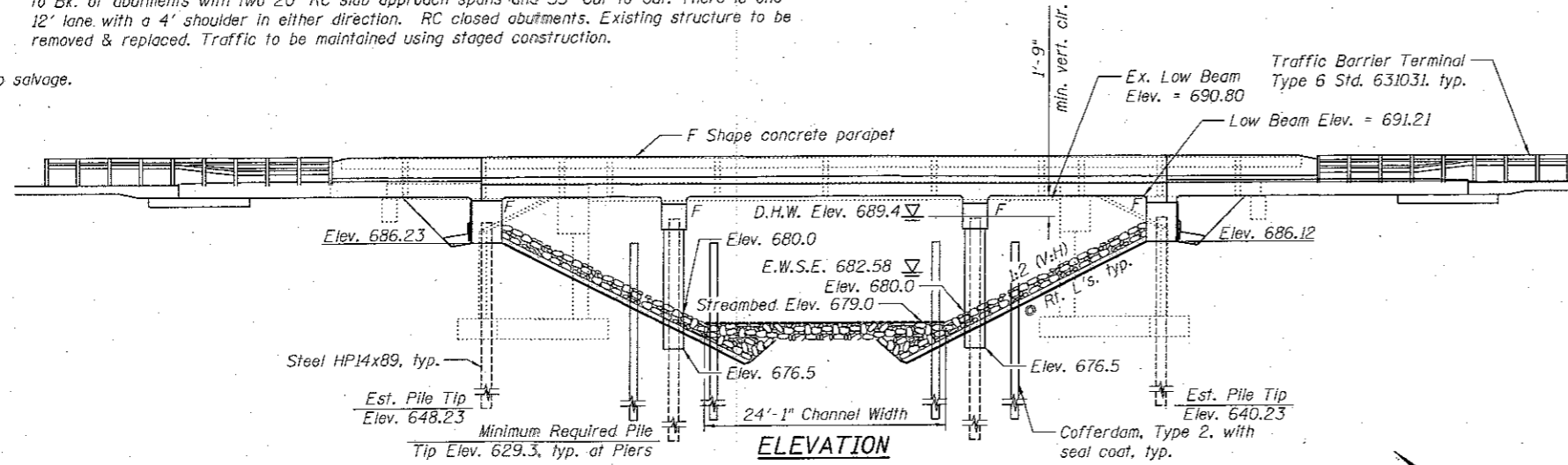
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2) BR	BUREAU	62	22
ILLINOIS ROUTE 89			CONTRACT NO. 66A21	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

S:\PROJECTS\2010\1175DIO\W04 D-3\SURVEY\EPO2807\EPO2807-SHT-ROWPLANDON calculations by C.B. drawn by B.F.

Bench Mark: BM2 Elev. 690.31 chiseled "□" in the N.E. wingwall of existing S.N. 006-0106

Existing Structure: S.N. 006-0106 Built in 1927 as FAP Rte. 698, Section 101-B and reconstructed as FAP Rte. 698, Section 101 BR-2 in 1983 as a 1-Span PPC deck beam bridge 47'-0" Bk. to Bk. of abutments with two 20' RC slab approach spans and 33' Out-to-Out. There is one 12' lane with a 4' shoulder in either direction. RC closed abutments. Existing structure to be removed & replaced. Traffic to be maintained using staged construction.

No salvage.



**WATERWAY INFORMATION**

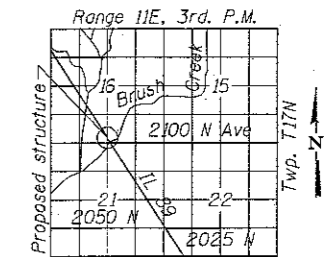
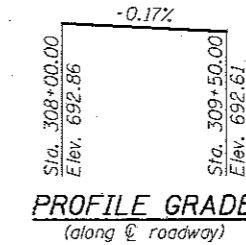
Drainage Area = 21.0 mi. <sup>2</sup>		Low Grade Elev. 690.8 @ Sta. 317+24							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Ex. Overtopping	14	2516	354	380	688.8	1.6	1.5	690.4	690.2
Pr. Overtopping	16	2673	359	386	688.9	2.2	2.1	691.1	691.0
Hyd. Design	50	3666	382	417	689.4	2.2	2.1	691.6	691.5
Base	100	4297	395	435	689.7	2.2	2.1	691.9	691.8
Scour Design	200	4970	407	452	690.0	2.1	2.0	692.1	692.0
Max. Calc.	500	5846	422	472	690.3	2.1	2.0	692.5	692.3

**DESIGN SCOUR ELEVATION TABLE**

	Design Scour Elevations (ft.)			Item
	N. Abut.	Piers 1 & 2	S. Abut.	
Q100	686.23	653.96	686.12	5
Q200	686.23	653.75	686.12	
Design	686.23	653.96	686.12	
Check	686.23	653.75	686.12	

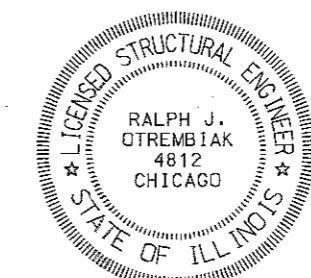
STATION 308+78.00  
BUILT 2018 BY  
STATE OF ILLINOIS  
F.A.P. RTE. 698  
SEC. (101 BR-2)BR  
LOADING HL-93  
STRUCTURE NO. 006-0188

**NAME PLATE**  
See Std. 515001



**APPROVED**  
For Structural Adequacy Only  
*Ralph J. Otrembik*  
Engineer of Bridges & Structures

Note:  
See Sheet S-2 For  
Section A-A and B-B.



*Ralph Otrembik*  
Licensed Structural Engineer  
4-25-2018 Expires 11-31-2018  
Date

**LOADING HL-93**  
Allow 50#/sq. ft. For future wearing surface.

**DESIGN SPECIFICATIONS**  
2012 AASHTO LRFD Bridge  
Design Specifications, 6th Edition  
with 2013 Interim Revisions

**DESIGN STRESSES**  
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (M270 Grade 50)

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>01</sub>) = 0.095g  
Design Spectral Acceleration at 0.2 sec. (S<sub>05</sub>) = 0.159g  
Soil Site Class = D

**GENERAL PLAN**  
**ILLINOIS ROUTE 89 OVER**  
**BRUSH CREEK**  
**F.A.P. RTE. 698 - SEC. (101 BR-2)BR**  
**BUREAU COUNTY**  
**STA. 308+78.00**  
**STRUCTURE NO. 006-0188**

<p>BLOOM COMPANIES, LLC 150 N. Wacker Drive, Suite 1800 Chicago, IL 60606 Phone: (312) 874-9900 Fax: (312) 874-0188</p>	USER NAME = jandrews PLOT SCALE = N/A PLOT DATE = 4/25/2018	DESIGNED - RJO CHECKED - BT DRAWN - JA CHECKED - 3/29/18	REVISED REVISED REVISED REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN AND ELEVATION</b> <b>STRUCTURE NO. 006-0188</b> SHEET NO. S-1 OF S-18C SHEETS	<table border="1"> <tr> <th>F.A.P. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>698</td> <td>101 BR-2)BR</td> <td>BUREAU</td> <td>62</td> <td>23</td> </tr> </table>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	698	101 BR-2)BR	BUREAU	62	23
	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.											
698	101 BR-2)BR	BUREAU	62	23												
ILLINOIS FED. AID PROJECT																

**GENERAL NOTES**

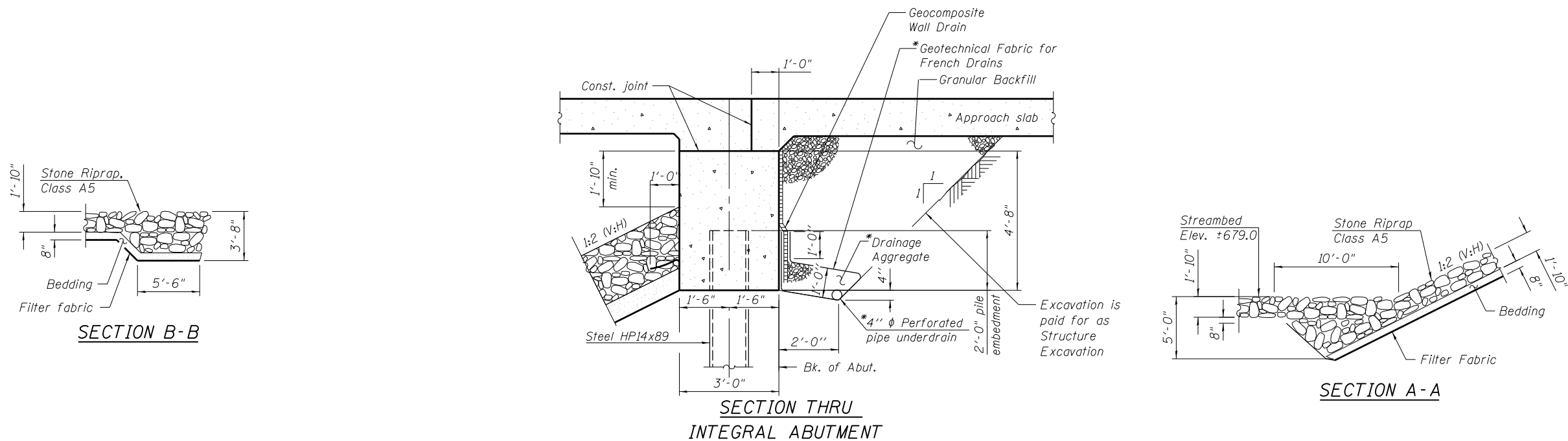
Reinforcement bars designated (E) shall be epoxy coated.  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
 Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.  
 The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.  
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

**INDEX OF SHEETS**

- S-1 General Plan & Elevation
- S-2 General Notes & Total Bill of Materials
- S-3 Stage Construction Details
- S-4 Temporary Barrier for Stage Construction
- S-5 Top of N. Approach Slab Elevations
- S-6 Top of S. Approach Slab Elevations
- S-7 Superstructure
- S-8 Superstructure Details
- S-9A North Approach Slab
- S-9B South Approach Slab
- S-10 Bridge Approach Slab Details
- S-11 South Abutment Details
- S-12 North Abutment Details
- S-13 Piers
- S-14 Metal Shell Pile Details
- S-15 Bar Splicer Assembly and Mechanical Splicer Details
- S-16 Concrete Parapet Slipforming Option
- S-17 Boring Logs
- S-18A Boring Logs
- S-18B Boring Logs
- S-18C Boring Logs

**TOTAL BILL OF MATERIALS**

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu Yd		79	79
Stone Riprap, Class A5	Sq Yd		692	692
Filter Fabric	Sq Yd		658	658
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu Yd		122	122
Cofferdam Excavation	Cu Yd		238	238
Cofferdam (Type 2) (Location - 1)	Each		1	1
Cofferdam (Type 2) (Location - 2)	Each		1	1
Floor Drains	Each	4		4
Concrete Structures	Cu Yd		134	134
Concrete Superstructure	Cu Yd	127.9		127.9
Concrete Superstructure (Approach Slab)	Cu Yd	97.3		97.3
Bridge Deck Grooving	Sq Yd	434		434
Seal Coat Concrete	Cu Yd	98.5		98.5
Protective Coat	Sq Yd	546		546
Reinforcement Bars, Epoxy Coated	Pound	77,815	17,190	95,005
Bar Splicers	Each	417	180	597
Furnishing Steel Piles HP14X89	Foot		1280	1280
Driving Piles	Foot		1280	1280
Test Pile Steel HP14X89	Each		4	4
Name Plates	Each		1	1
Geocomposite Wall Drain	Sq Yd		52	52
Temporary Sheet Piling	Sq Ft		885	885
Pipe Underdrains for Structures, 4"	Foot		98	98
Asbestos Bearing Pad Removal	Each		22	22
Pile Shoes	Each		28	28



\* Included in the cost of Pipe Underdrains for Structures, 4"  
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

FILENAME = F:\3-1308 IDD\1st\_3\3-1308CF IL BRB\rdh\Drawings\CADD\Sheets\006018B-66A21-002-CN.dgn



USER NAME = rotrembiak	DESIGNED - RJO	REVISED
	CHECKED - BT	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 5/17/2018	CHECKED - 3/29/18	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

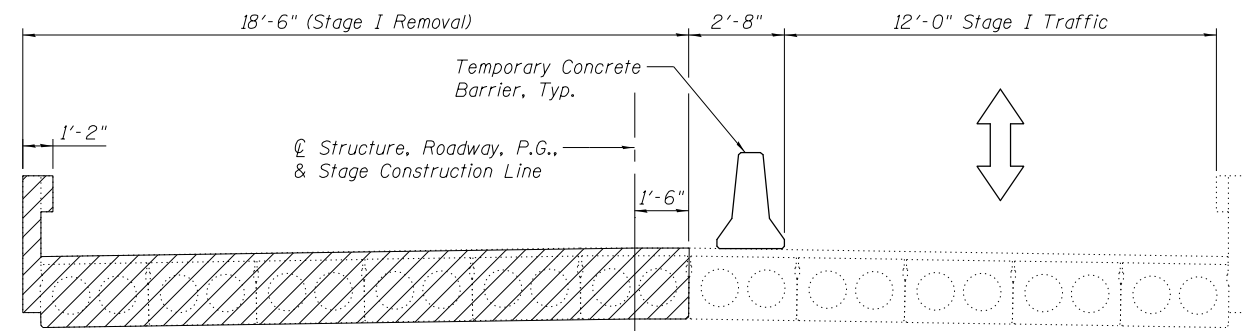
**GENERAL NOTES, INDEX OF SHEETS, & TOTAL BILL OF MATERIALS  
 STRUCTURE NO. 006-0188**

F.A.P. RTE. 698	SECTION (101 BR-2)BR	COUNTY BUREAU	TOTAL SHEETS 62	SHEET NO. 24
CONTRACT NO. 66A21				

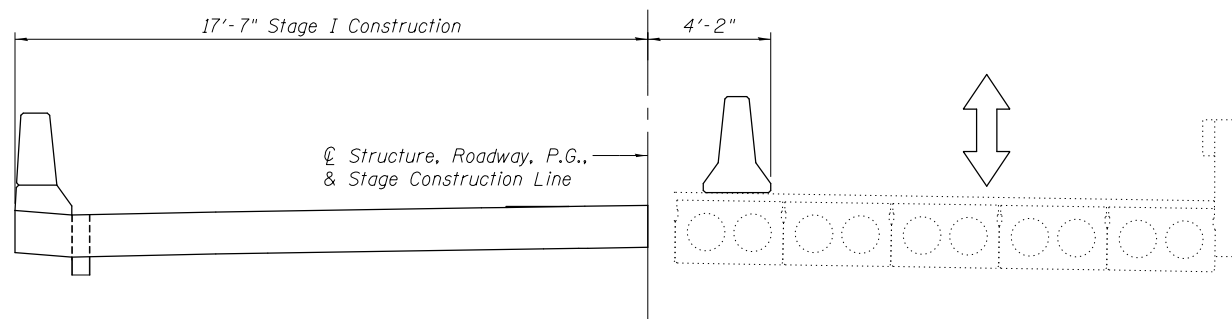
SHEET NO. S-2 OF S-18C SHEETS

ILLINOIS FED. AID PROJECT

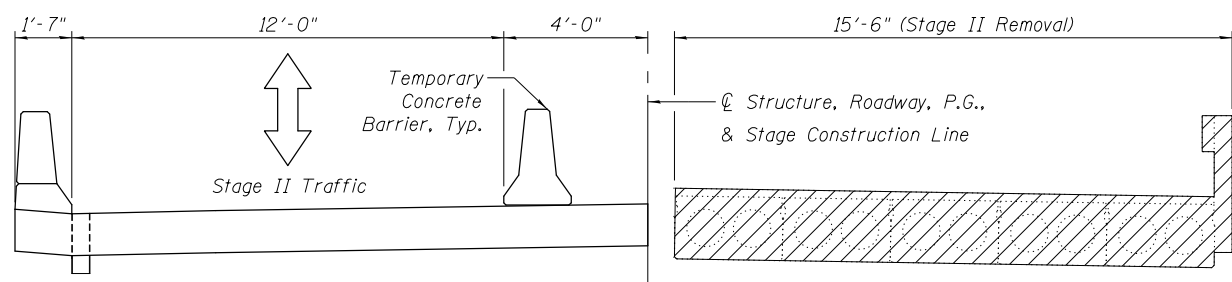




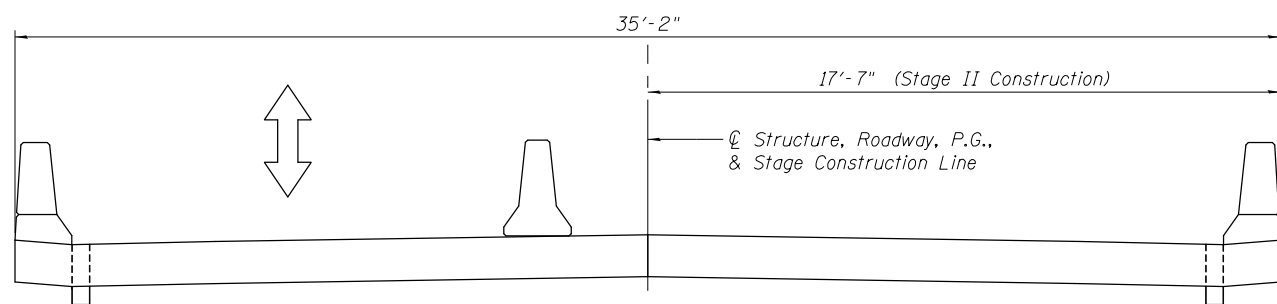
**STAGE I REMOVAL**



**STAGE I CONSTRUCTION**

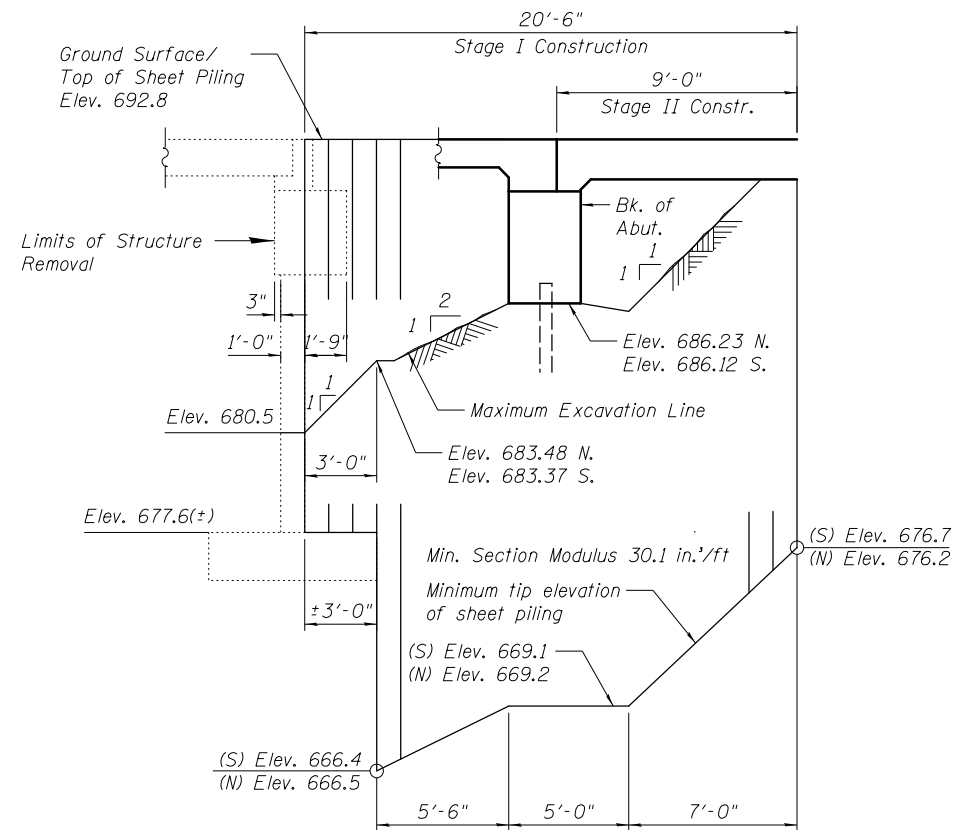
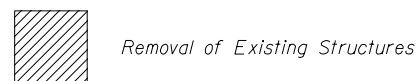


**STAGE II REMOVAL**



**STAGE II CONSTRUCTION**

**LEGEND**



**TEMPORARY SHEET PILING**

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

**Notes:**

- All staging cross sections are looking South.
- For Quantity of Temporary Concrete Barrier, see roadway plans.
- See Sheet S-4 for Details of Temporary Concrete Barrier
- The cost of the removal of the existing bridge railing is included in Removal of Existing Structures

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USER NAME = jandrews	DESIGNED - RJO	REVISED
	CHECKED - BT	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 4/25/2018	CHECKED - 3/29/18	REVISED

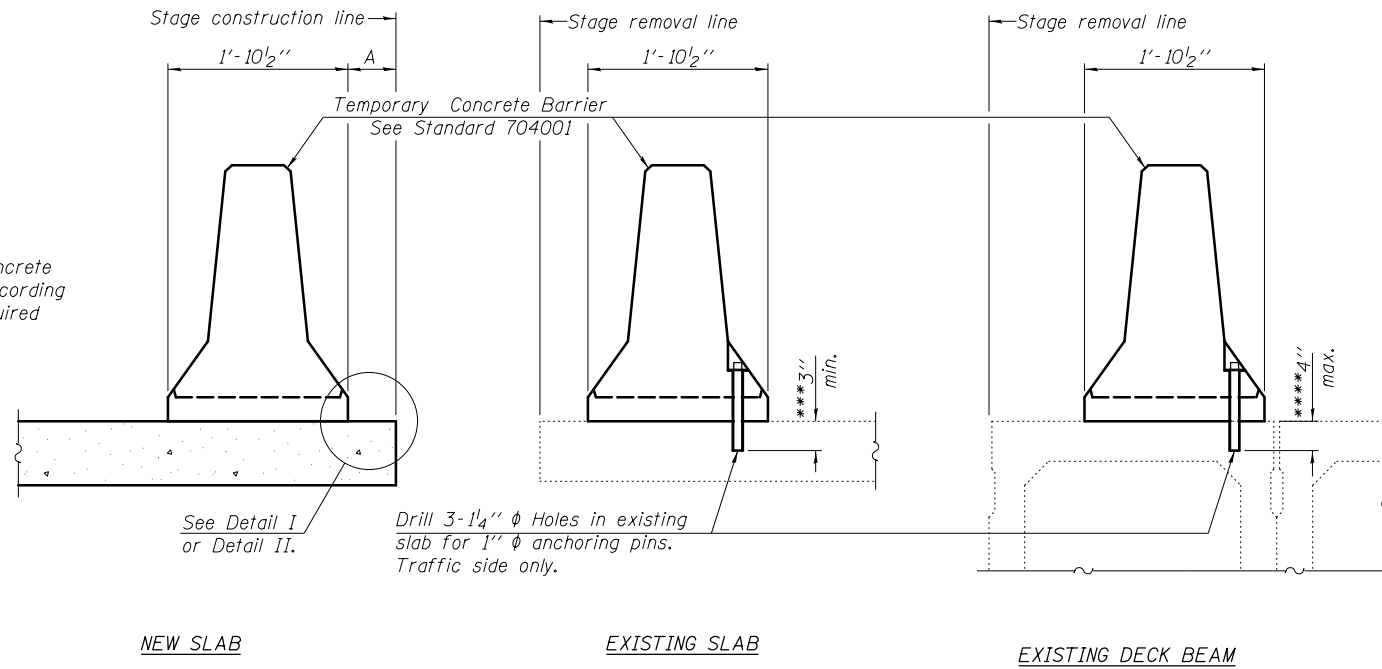
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
STRUCTURE NO. 006-0188**

SHEET NO. S-3 OF S-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	25
			CONTRACT NO. 66A21	
ILLINOIS FED. AID PROJECT				

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



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

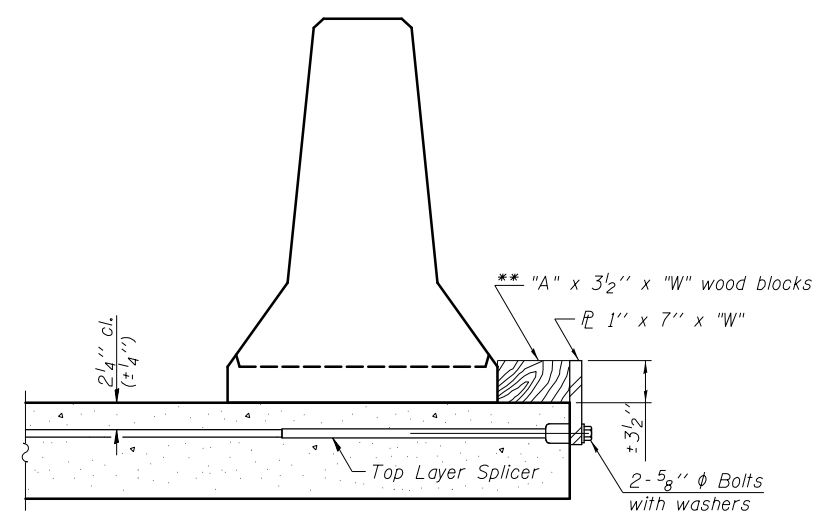
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

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

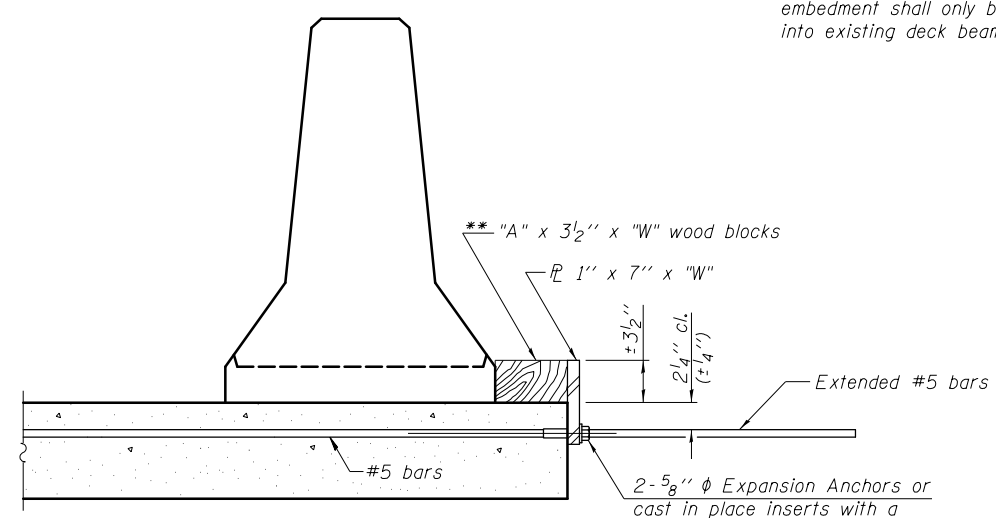
Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

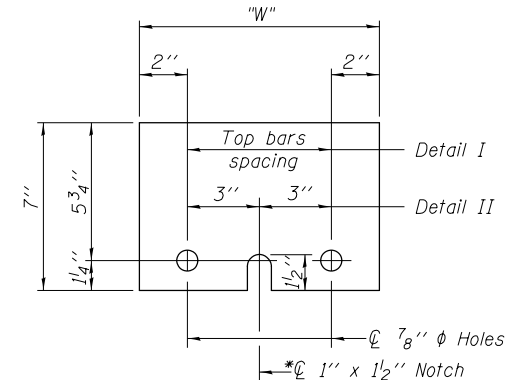
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



**STEEL RETAINER PL 1" x 7" x "W"**  
\* Required only with Detail II

**RETAINER ASSEMBLY**

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

FILENAME = F:\3-1308-IDD\1st\_3-3-1308CF\_ILBPR\ursh\Drawings\CADD\Sheet\006A21-004-ConcBr.dgn

R-27

1-12-15



USER NAME = jandrews	DESIGNED - RJO	REVISED
	CHECKED - BT	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 4/25/2018	CHECKED - 3/29/18	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 006-0188**

SHEET NO. S-4 OF S-18C SHEETS

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	26
CONTRACT NO. 66A21				

ILLINOIS FED. AID PROJECT

EAST EDGE OF SHOULDER

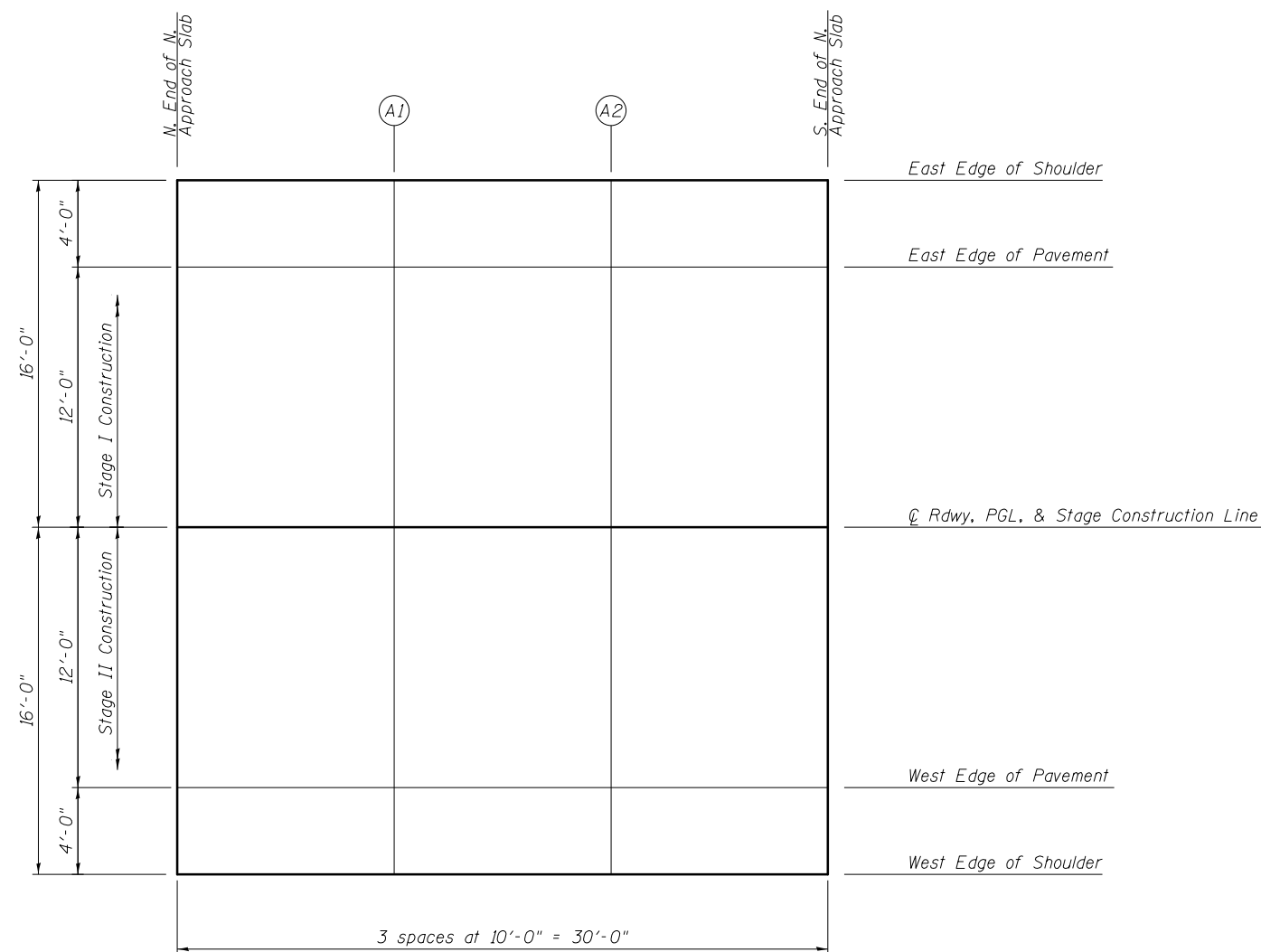
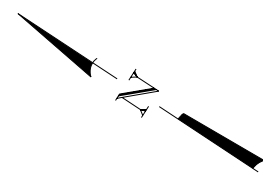
Location	Station	Offset	Theoretical Grade Elevations
N. End N. Approach	30814.00	-16.00	692.57
A1	30824.00	-16.00	692.55
A2	30834.00	-16.00	692.53
S. End N. Approach	30844.00	-16.00	692.52

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Approach	30814.00	-12.00	692.65
A1	30824.00	-12.00	692.63
A2	30834.00	-12.00	692.61
S. End N. Approach	30844.00	-12.00	692.60

☉ ROADWAY, PGL & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Approach	30814.00	0.00	692.84
A1	30824.00	0.00	692.82
A2	30834.00	0.00	692.80
S. End N. Approach	30844.00	0.00	692.79



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Approach	30814.00	12.00	692.65
A1	30824.00	12.00	692.63
A2	30834.00	12.00	692.61
S. End N. Approach	30844.00	12.00	692.60

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Approach	30814.00	16.00	692.57
A1	30824.00	16.00	692.55
A2	30834.00	16.00	692.53
S. End N. Approach	30844.00	16.00	692.52

E-AS

7-1-10

FILENAME: F:\3-1308 IDD\1st\_3-1308CF\_IL\BPR\ursh\Drawings\CADD\Sheets\006018B-66A21-005-MSppr.dgn



USER NAME = jandrews	DESIGNED - GLB	REVISED
	CHECKED - MCB	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 4/25/2018	CHECKED - 3/29/18	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF N APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 006-0188**

SHEET NO. S-5 OF S-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	27
			CONTRACT NO. 66A21	
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Approach	30912.00	-16.00	692.40
A3	30922.00	-16.00	692.38
A4	30932.00	-16.00	692.37
S. End S. Approach	30942.00	-16.00	692.35

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Approach	30912.00	-12.00	692.48
A3	30922.00	-12.00	692.46
A4	30932.00	-12.00	692.45
S. End S. Approach	30942.00	-12.00	692.43

☉ ROADWAY, PGL & STAGE CONSTRUCTION LINE

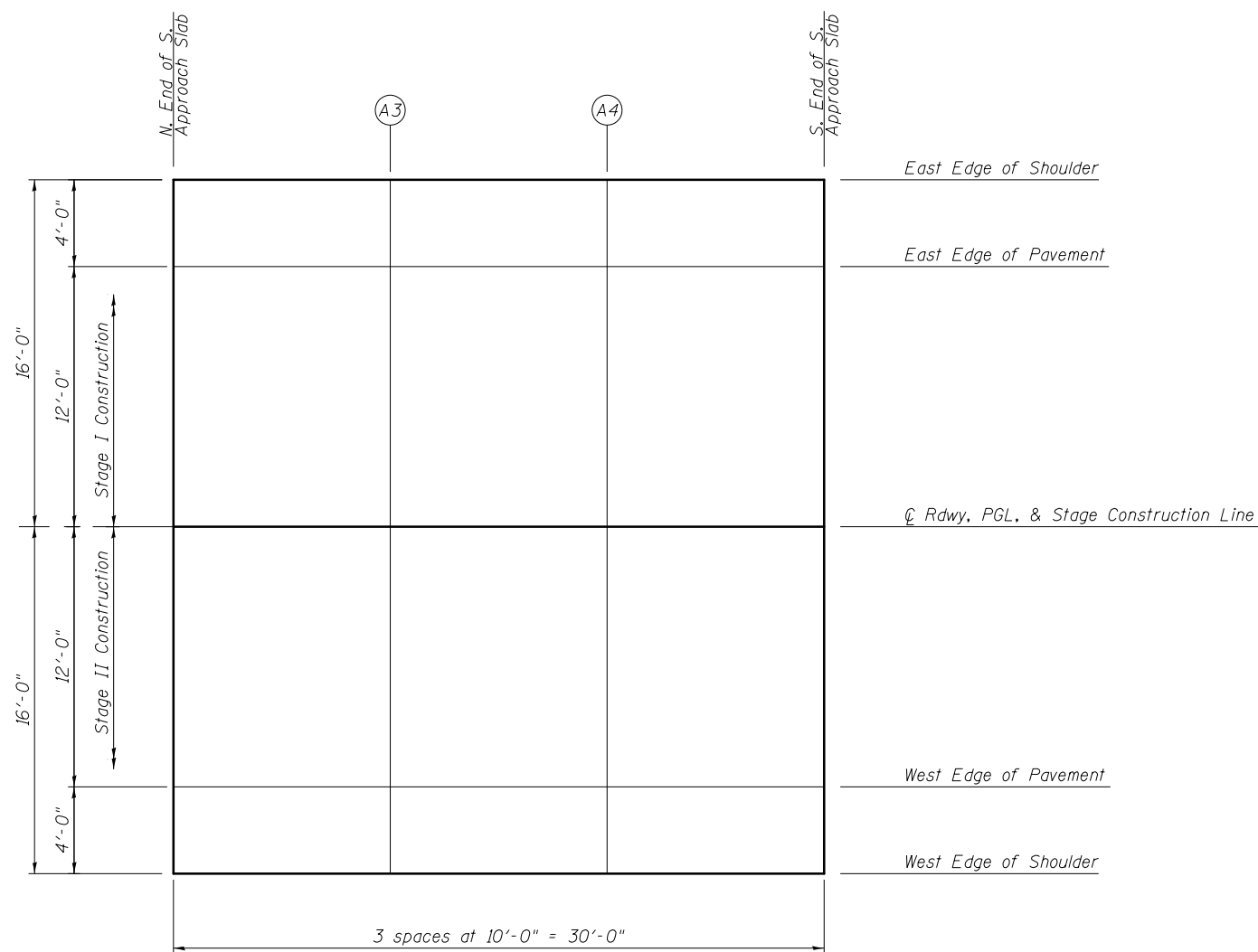
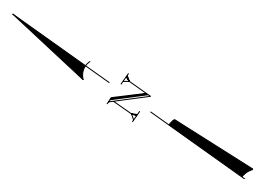
Location	Station	Offset	Theoretical Grade Elevations
N. End S. Approach	30912.00	0.00	692.67
A3	30922.00	0.00	692.65
A4	30932.00	0.00	692.64
S. End S. Approach	30942.00	0.00	692.62

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Approach	30912.00	12.00	692.48
A3	30922.00	12.00	692.46
A4	30932.00	12.00	692.45
S. End S. Approach	30942.00	12.00	692.43

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Approach	30912.00	16.00	692.40
A3	30922.00	16.00	692.38
A4	30932.00	16.00	692.37
S. End S. Approach	30942.00	16.00	692.35



PLAN

E-AS

7-1-10

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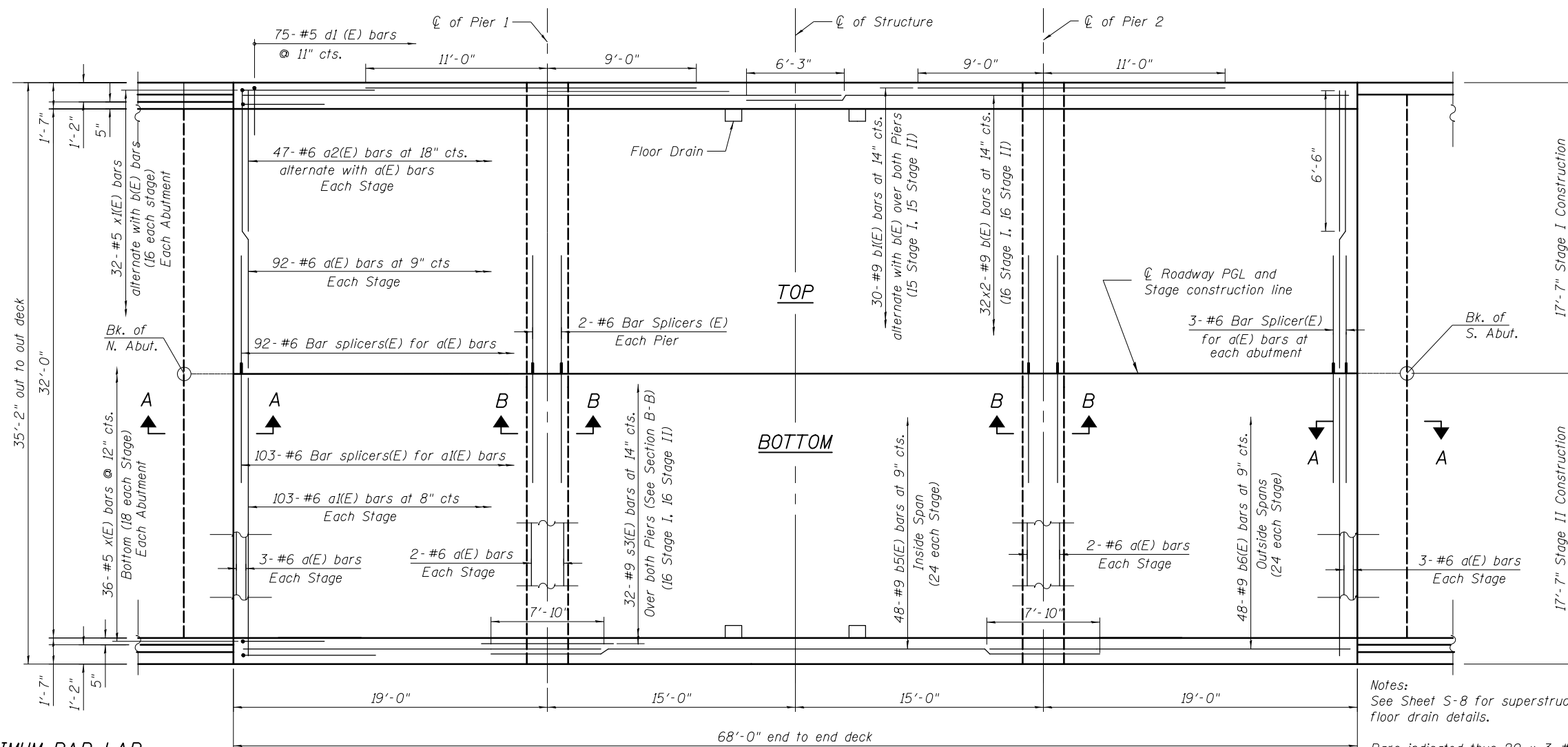
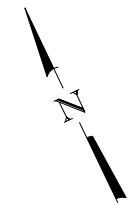
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	CHECKED - MCB	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 4/25/2018	CHECKED - 3/29/18	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF S APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 006-0188**

SHEET NO. 5-6 OF 5-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	28
			CONTRACT NO. 66A21	
ILLINOIS FED. AID PROJECT				



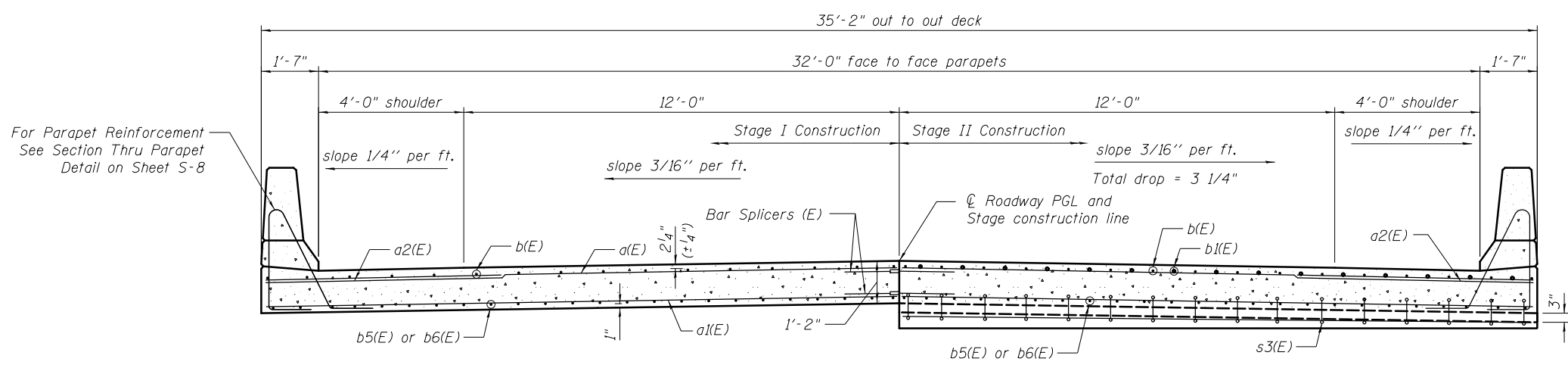
Notes:  
 See Sheet S-8 for superstructure and floor drain details.  
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
 See Sheet S-8 for parapet reinforcement.  
 See Sheet S-8 for Sections A-A and B-B

**MINIMUM BAR LAP**  
 #9 bar top = 6'-3"  
 #9 bar bottom = 7'-10"

**PLAN**

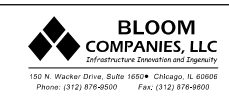
**SUPERSTRUCTURE  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	204	#6	17'-4"	—	
a1(E)	206	#6	17'-4"	—	
a2(E)	94	#6	6'-6"	—	
b(E)	64	#9	37'-0"	—	
b1(E)	60	#9	20'-0"	—	
b5(E)	48	#9	37'-10"	—	
b6(E)	96	#9	24'-0"	—	
d(E)	150	#5	5'-7"	⏏	
d1(E)	150	#5	8'-4"	⏏	
e(E)	28	#4	18'-9"	—	
e1(E)	28	#4	14'-9"	—	
e2(E)	4	#8	37'-0"	—	
e3(E)	4	#4	35'-3"	—	
s3(E)	64	#5	7'-6"	—	
x(E)	72	#5	5'-11 1/2"	—	
x1(E)	64	#5	8'-10"	—	
Reinforcement Bars, Epoxy Coated				Pound	42,565
Concrete Superstructure				Cu. Yds.	122.6



**SECTION THRU DECK  
 (Looking South)**

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USER NAME = jandrews	DESIGNED - RJ0	REVISED
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PLOT DATE = 4/25/2018	DRAWN - JA	REVISED
	CHECKED - 3/29/18	REVISED

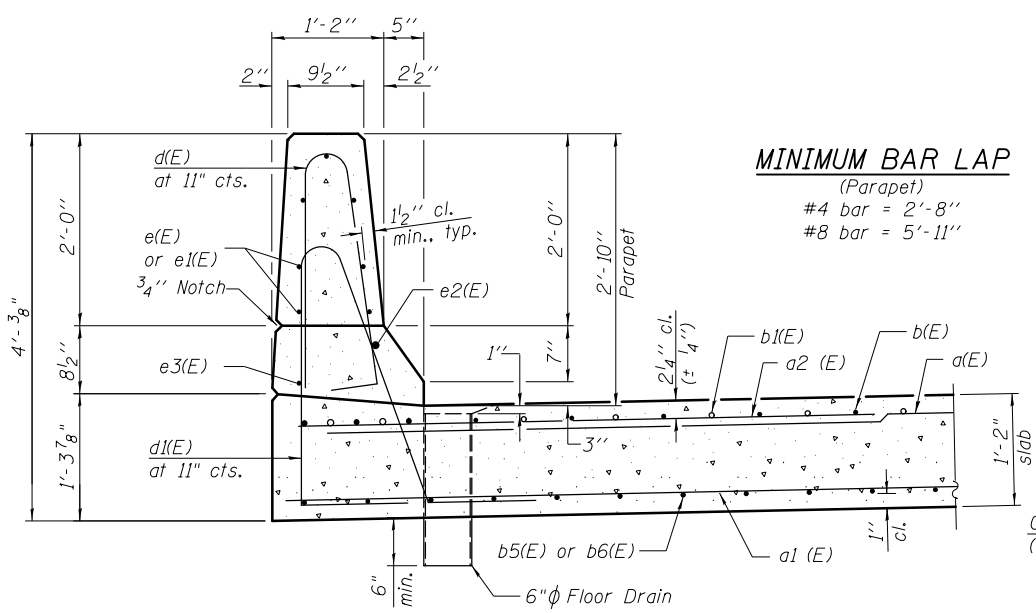
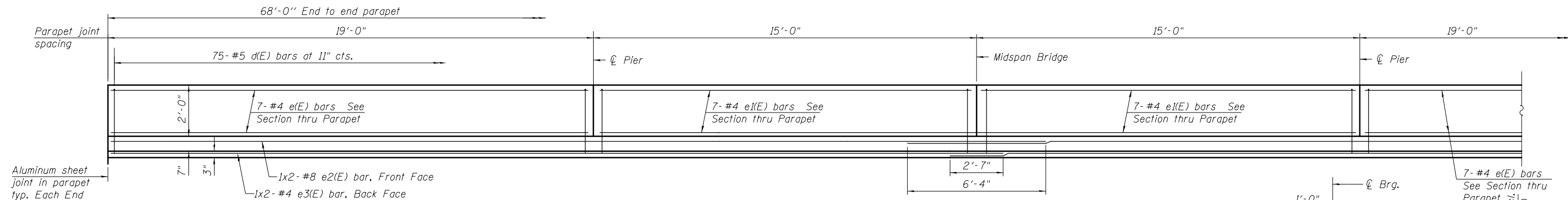
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE  
 STRUCTURE NO. 006-0188**

SHEET NO. S-7 OF S-18C SHEETS

F.A.P. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	29
CONTRACT NO. 66A21				

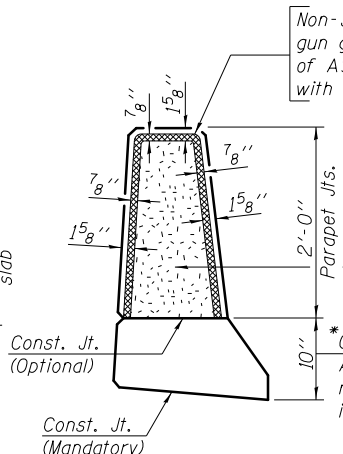
ILLINOIS FED. AID PROJECT



SECTION THRU PARAPET

**MINIMUM BAR LAP**

(Parapet)  
 #4 bar = 2'-8"  
 #8 bar = 5'-11"



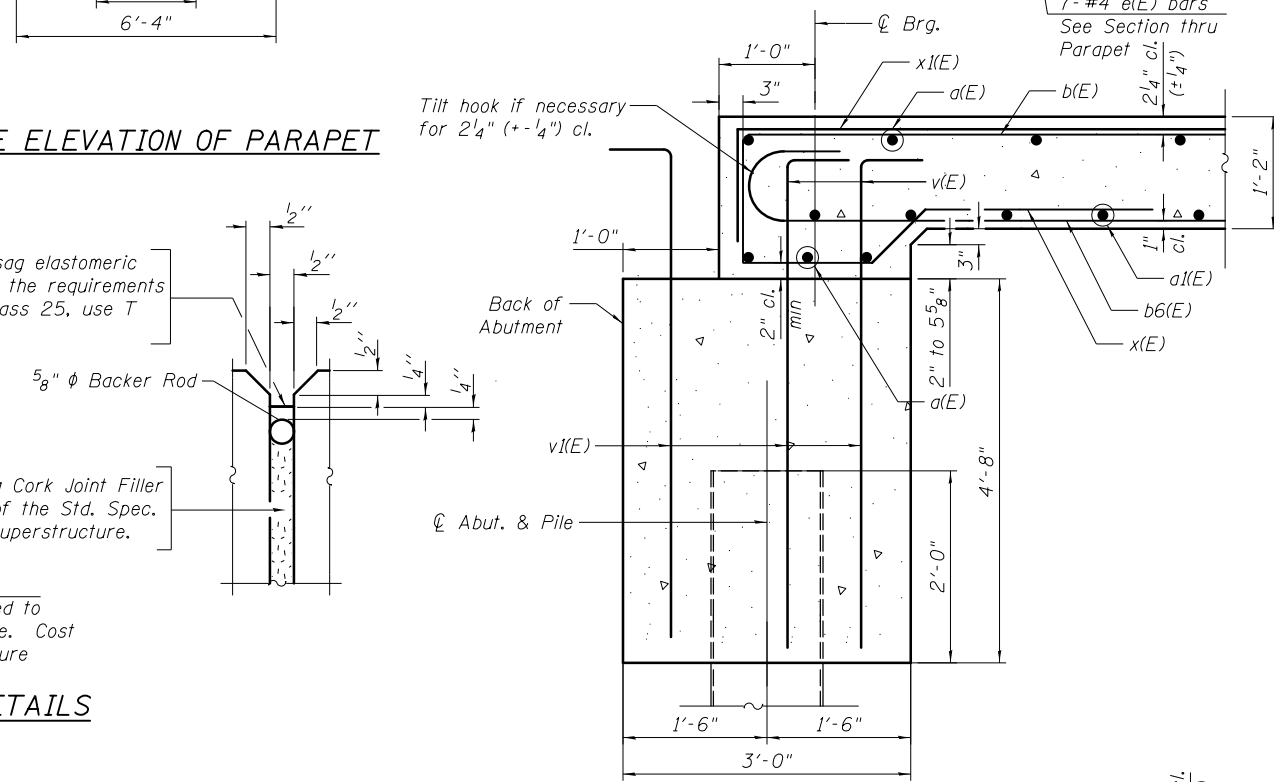
PARAPET JOINT DETAILS

\* At abutments only

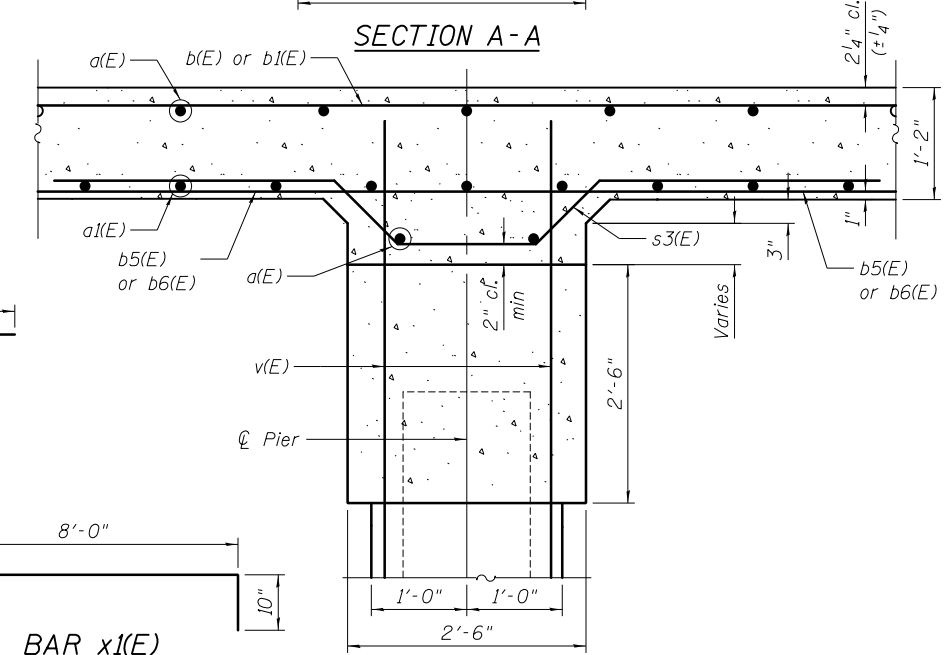
**Notes:**

The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Spec. SSPC-SP1 prior to painting with a color that matches the concrete.  
 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.

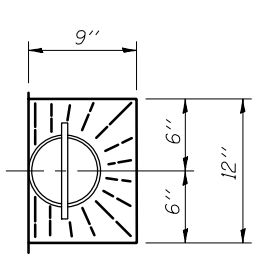
**INSIDE ELEVATION OF PARAPET**



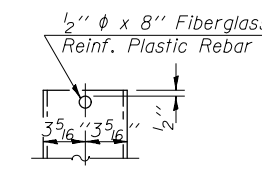
SECTION A-A



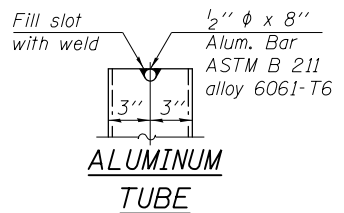
SECTION B-B



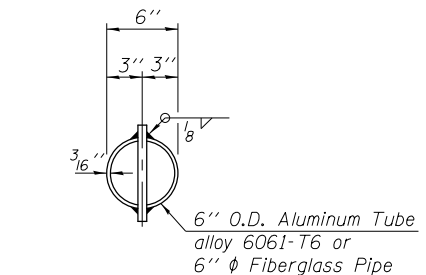
TOP PLAN



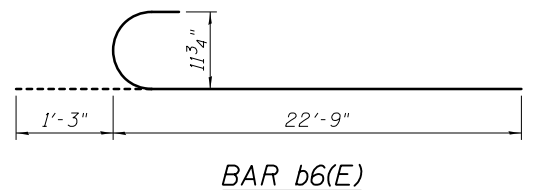
FIBERGLASS PIPE



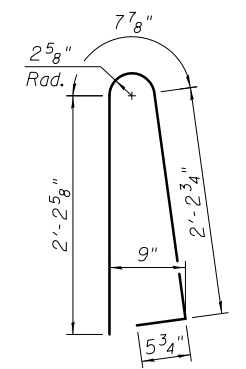
ALUMINUM TUBE



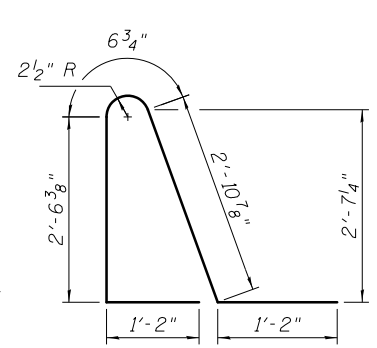
TOP PLAN (Showing Aluminum Tube)



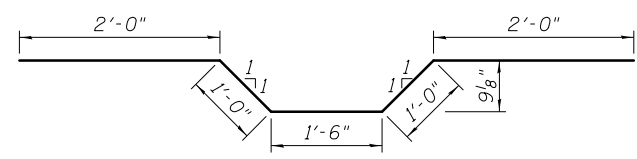
BAR b6(E)



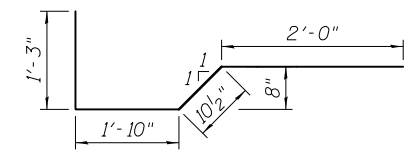
BAR dE



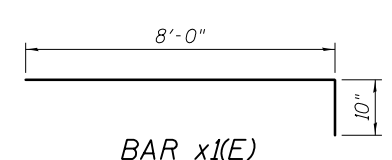
BAR d1(E)



BAR s3(E)



BAR x(E)



BAR x1(E)

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USER NAME = jandrews  
 DESIGNED - RJO  
 CHECKED - BT  
 PLOT SCALE = N/A  
 DRAWN - JA  
 CHECKED - 3/29/18  
 PLOT DATE = 4/25/2018

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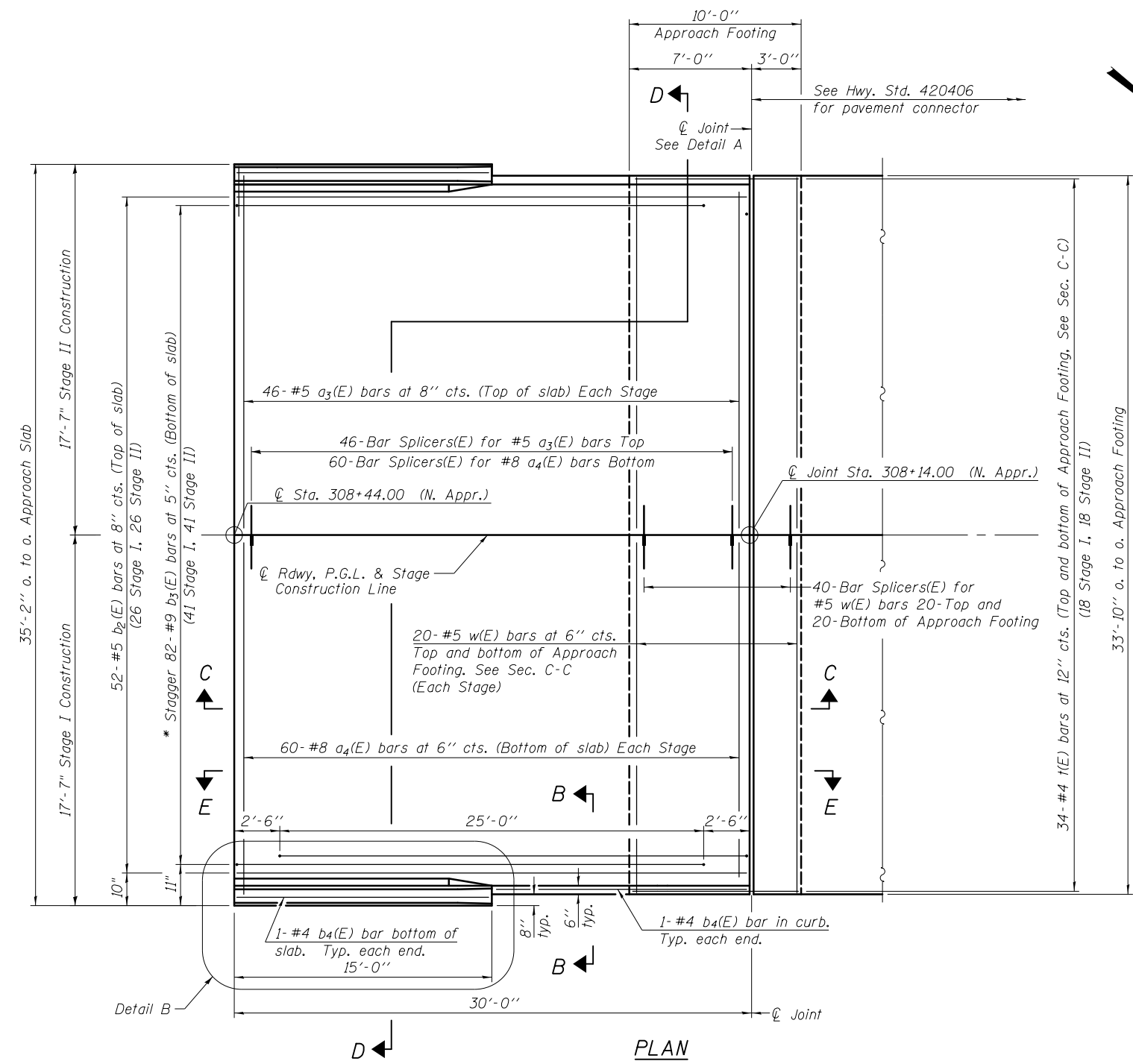
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS  
 STRUCTURE NO. 006-0188

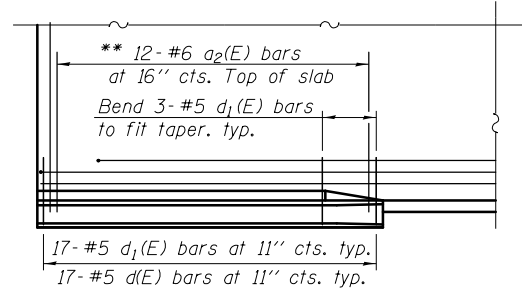
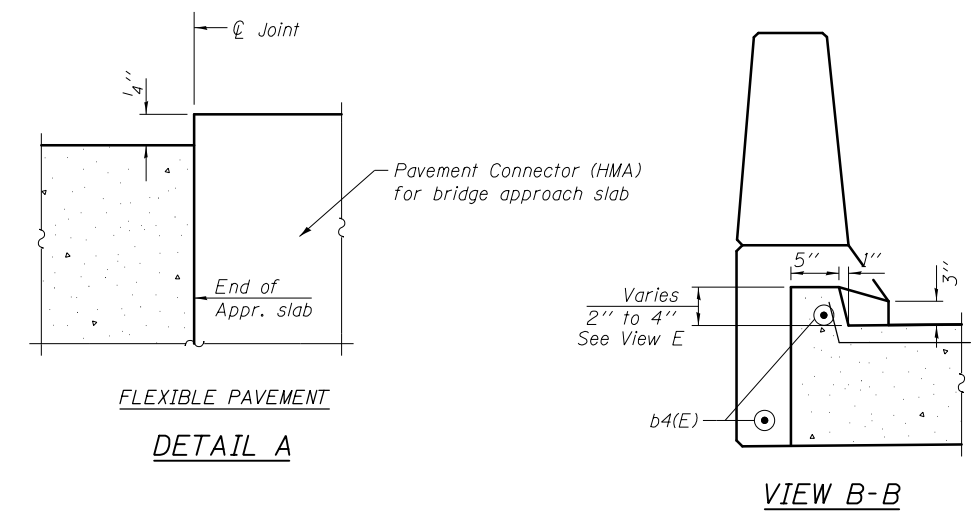
SHEET NO. S-8 OF S-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	30
CONTRACT NO. 66A21			ILLINOIS FED. AID PROJECT	

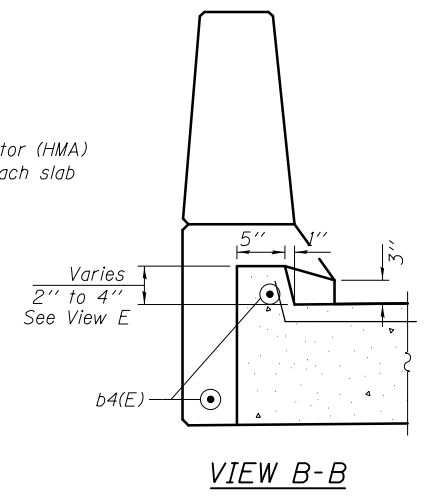
Notes:  
See sheet S-10 for Sections C-C & D-D and View E-E.  
For bar splicer details see sheet S-15.



\* Tilt #9 b3(E) bars as required to maintain clearance.



East parapet shown, west parapet similar  
\*\* Space a2(E) bars between a3(E) bars, typ. ea. parapet.



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	24	#6	6'-6"	—
a3(E)	92	#5	16'-10 <sup>5</sup> / <sub>8</sub> "	—
a4(E)	120	#8	16'-7"	—
b2(E)	52	#5	29'-8"	—
b3(E)	82	#9	29'-10"	—
b4(E)	4	#4	14'-8"	—
d(E)	34	#5	5'-7"	▲
d1(E)	34	#5	8'-4"	▲
e1(E)	16	#4	14'-9"	—
e5(E)	2	#8	14'-9"	—
t(E)	68	#4	9'-8"	—
w(E)	80	#5	16'-7"	—
Concrete Superstructure			Cu. Yd.	3.5
Concrete Superstructures (Approach Slab)			Cu. Yd.	48.6
Concrete Structures			Cu. Yd.	10.5
** Reinforcement Bars, Epoxy Coated			Pound	19,690

\*\* 17,865 Pound (Superstructure)  
1,825 Pound (Substructure)

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PLOT DATE = 4/25/2018	CHECKED - 3/29/18	REVISED

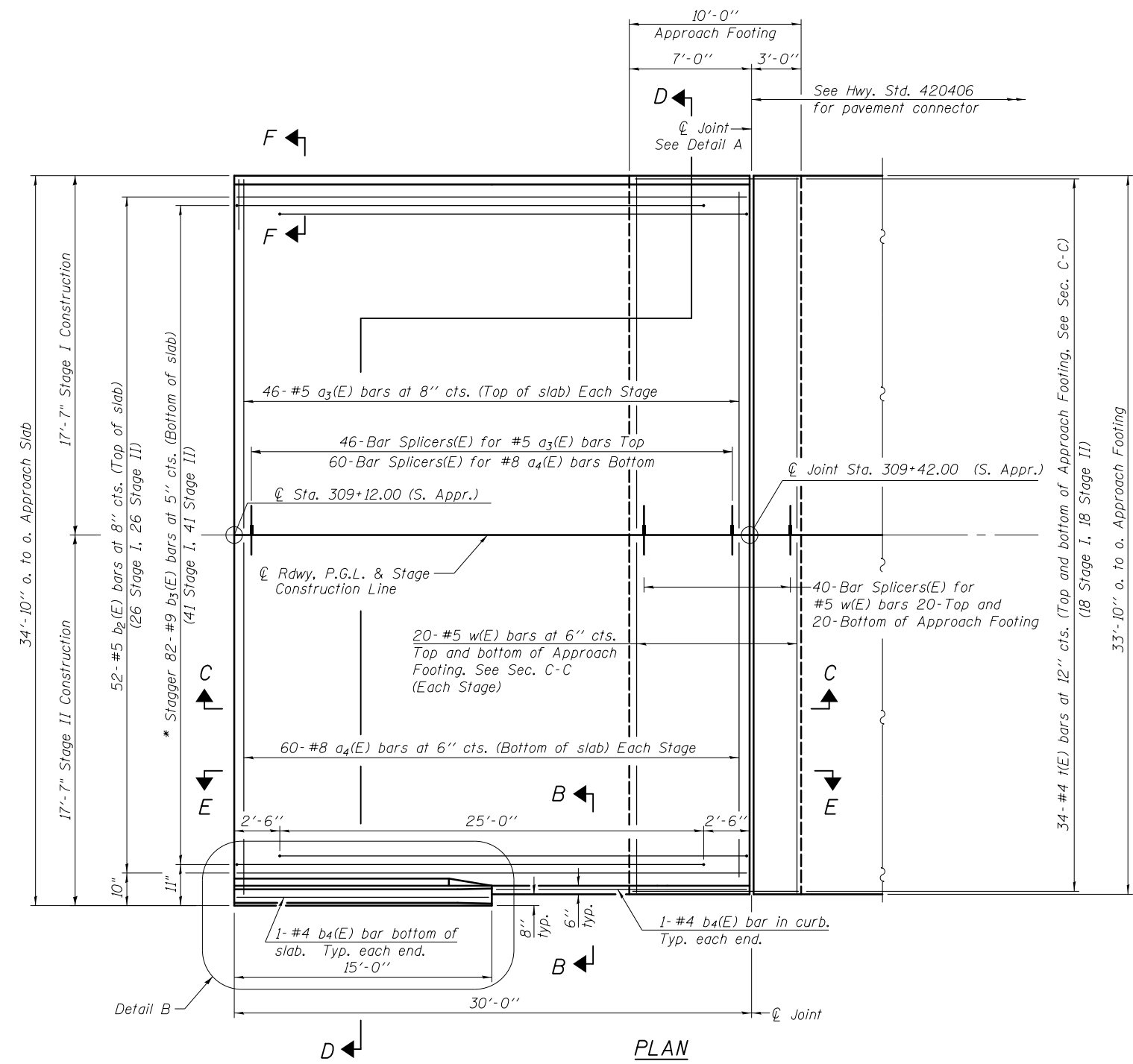
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**NORTH BRIDGE APPROACH SLAB  
STRUCTURE NO. 006-0188**

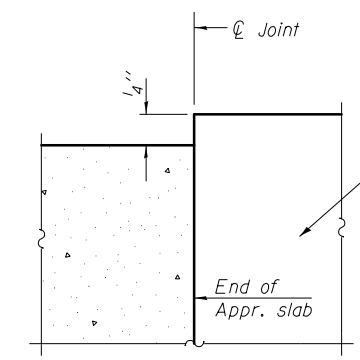
SHEET NO. S-9A OF S-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	31A
CONTRACT NO. 66A21			ILLINOIS FED. AID PROJECT	

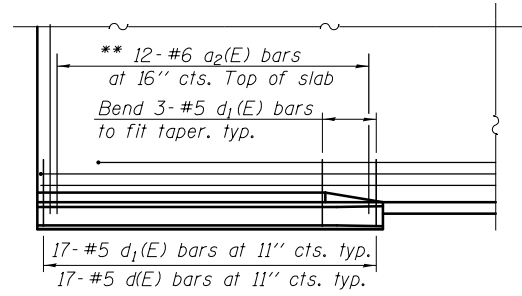
Notes:  
See sheet S-10 for Sections C-C & D-D and View E-E.  
For bar splicer details see sheet S-15.



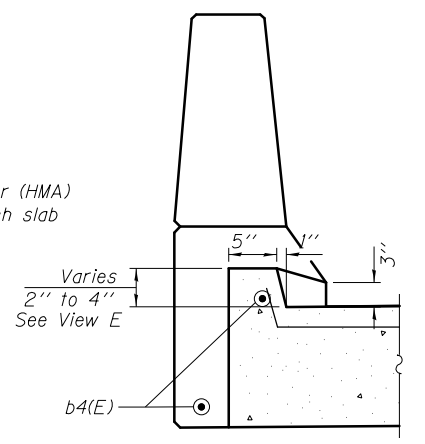
\* Tilt #9 b3(E) bars as required to maintain clearance.



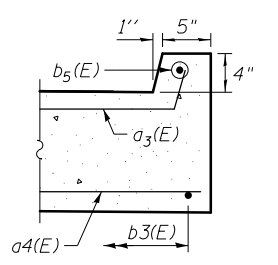
FLEXIBLE PAVEMENT  
DETAIL A



DETAIL B  
\*\* Space a2(E) bars between a3(E) bars, typ. ea. parapet.



VIEW B-B



VIEW F-F

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	12	#6	6'-6"	
a3(E)	92	#5	16'-10 <sup>5</sup> / <sub>8</sub> "	
a4(E)	120	#8	16'-7"	
b2(E)	52	#5	29'-8"	
b3(E)	82	#9	29'-10"	
b4(E)	2	#4	14'-8"	
b5(E)	1	#4	29'-8"	
d(E)	17	#5	5'-7"	
d1(E)	17	#5	8'-4"	
e1(E)	9	#4	14'-9"	
e5(E)	1	#8	14'-9"	
f(E)	68	#4	9'-8"	
w(E)	80	#5	16'-7"	
Concrete Superstructure			Cu. Yd.	1.8
Concrete Superstructures (Approach Slab)			Cu. Yd.	48.7
Concrete Structures			Cu. Yd.	10.5
** Reinforcement Bars, Epoxy Coated			Pound	19,210
** 17,385			Pound	(Superstructure)
1,825			Pound	(Substructure)

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USER NAME = jandrews	DESIGNED - RJO	REVISED
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PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 4/25/2018	CHECKED - 3/29/18	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOUTH BRIDGE APPROACH SLAB  
STRUCTURE NO. 006-0188

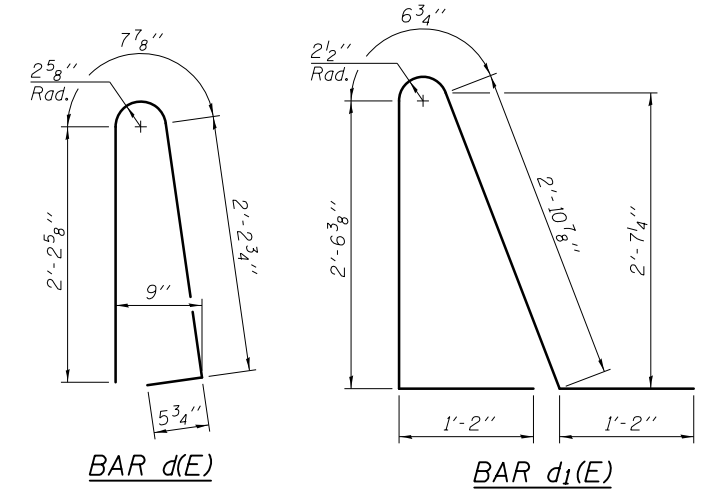
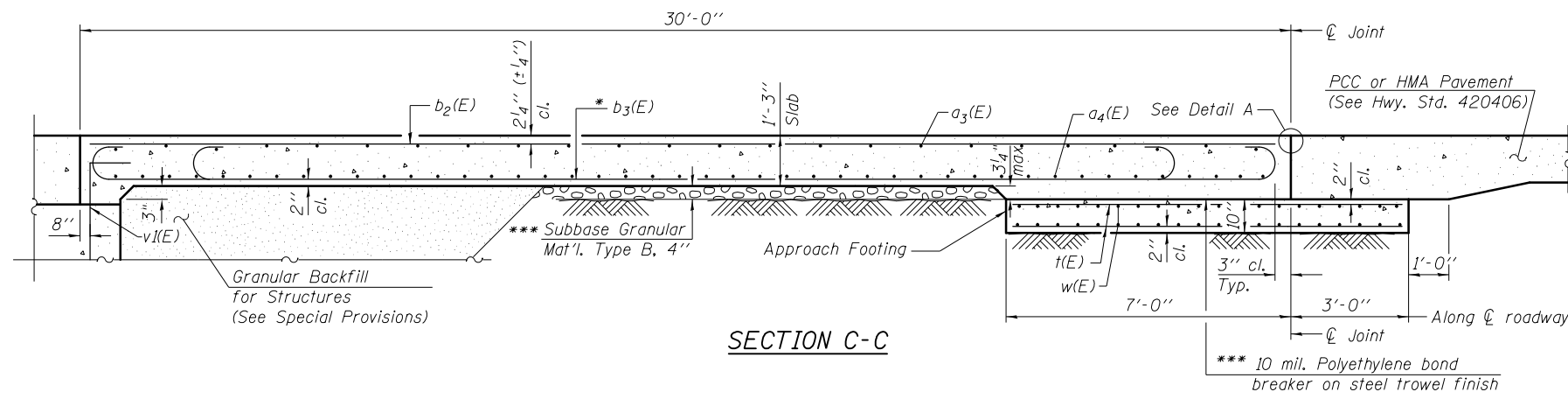
SHEET NO. S-9B OF S-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	31B
			CONTRACT NO. 66A21	
ILLINOIS FED. AID PROJECT				



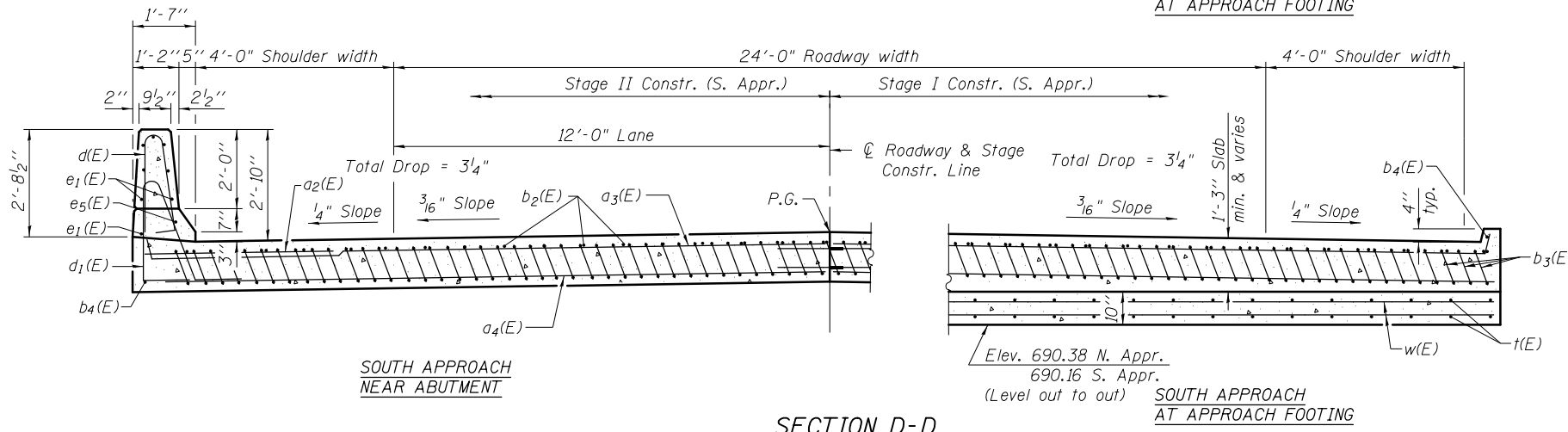
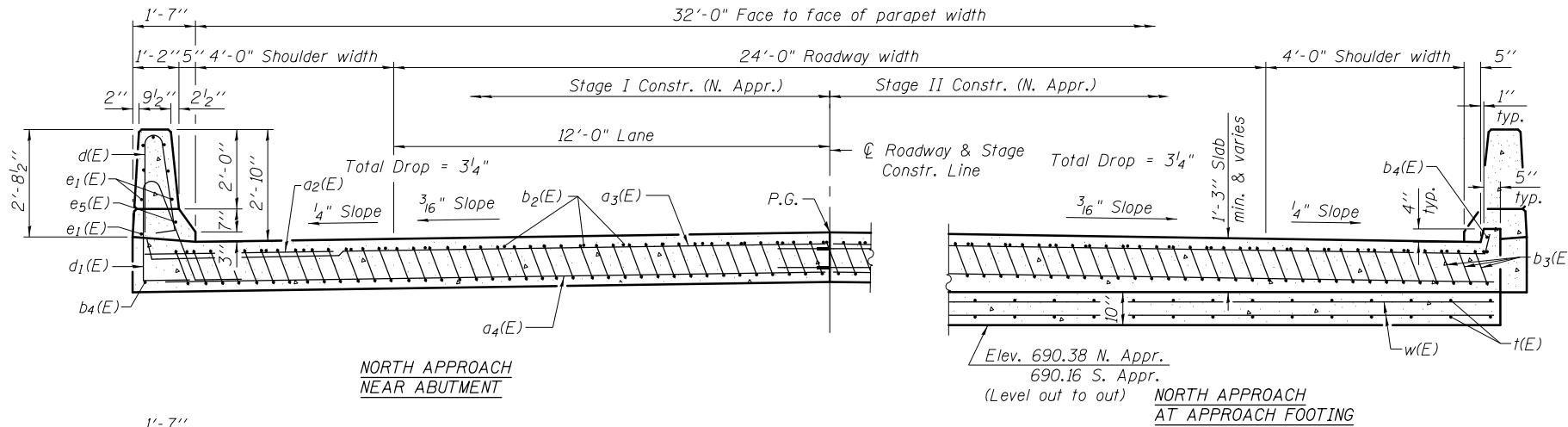
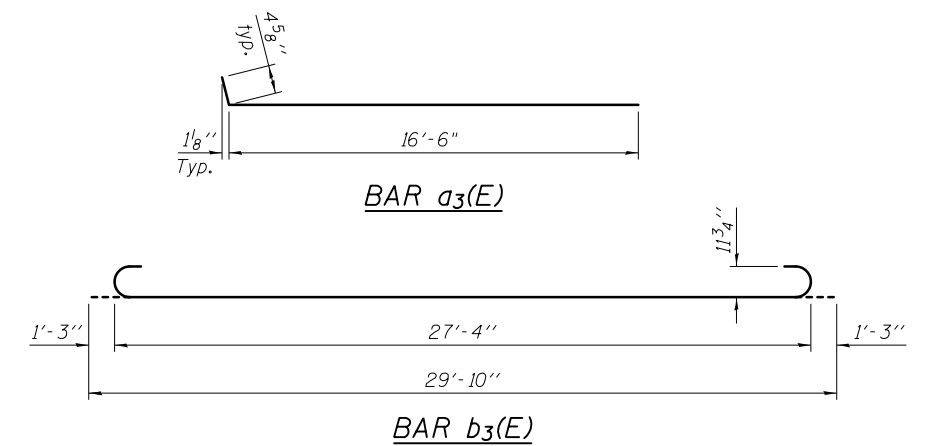
Notes:

See sheet S-9A or S-9B for Detail A.  
 Parapet concrete shall be paid for as Concrete Superstructure.  
 Approach slab shall be paid for as Concrete Superstructures (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For v<sub>1</sub>(E) bar details, see sheets S-11 and S-12.  
 The approach footing maximum applied service bearing pressure (Q<sub>max</sub>) = 2.0 ksf.  
 For bar splicer details, see sheet S-15.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet S-2.  
 For additional parapet details, see sheet S-8.

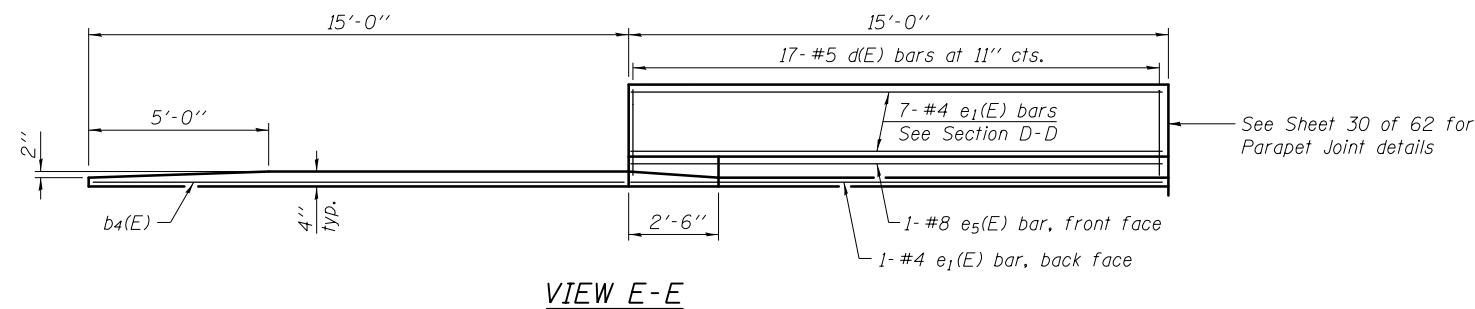


\* Tilt #9 b<sub>3</sub>(E) bars as required to maintain clearance.

\*\*\* Cost included with Concrete Superstructure.

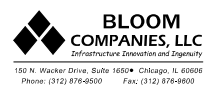


SECTION D-D  
 (See Plan for dimensions not shown)



VIEW E-E

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USER NAME = jandrews  
 PLOT SCALE = N/A  
 PLOT DATE = 4/25/2018

DESIGNED - RJO  
 CHECKED - BT  
 DRAWN - JA  
 CHECKED - 3/29/18

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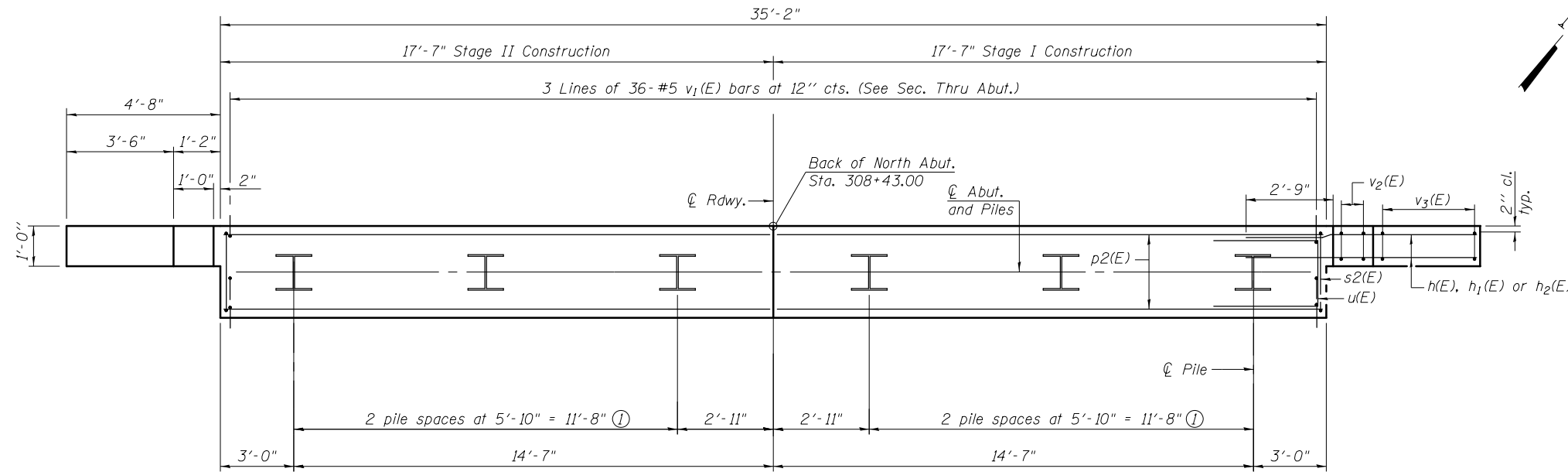
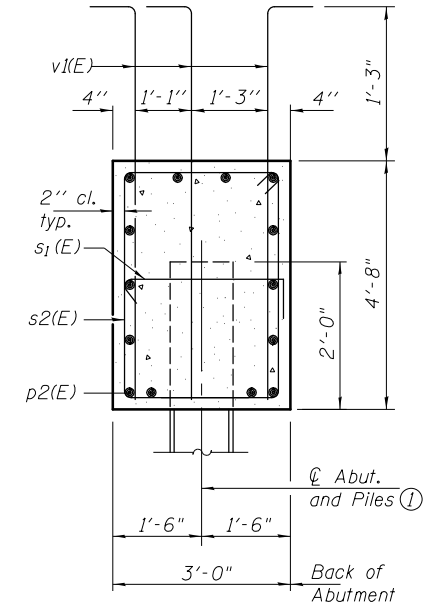
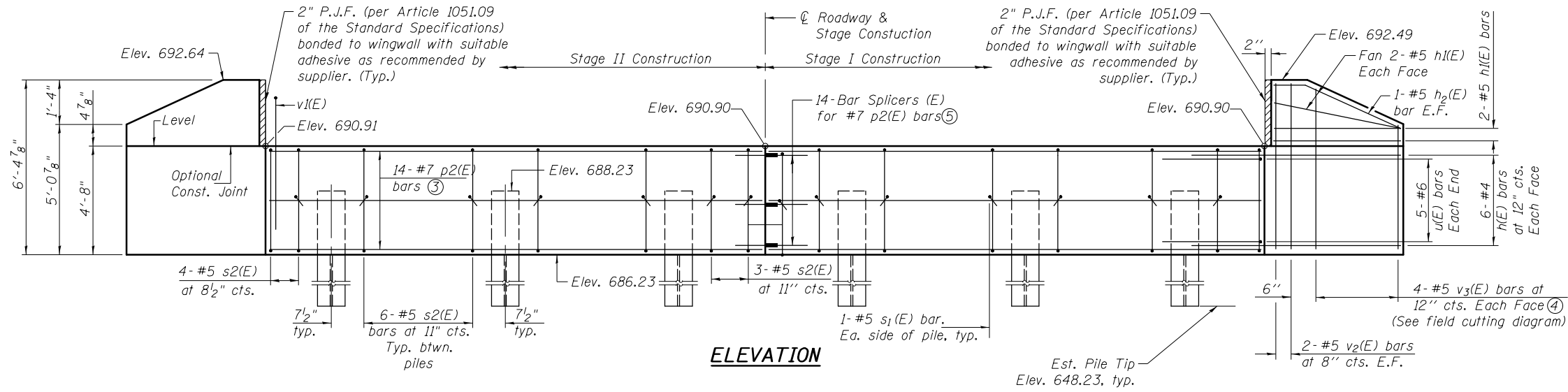
STATE OF ILLINOIS  
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BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 006-0188

SHEET NO. S-10 OF S-18C SHEETS

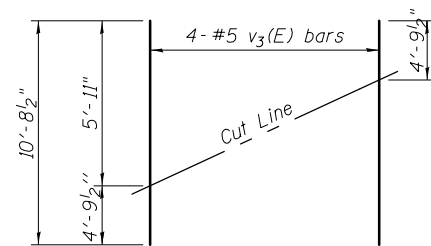
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	32
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				





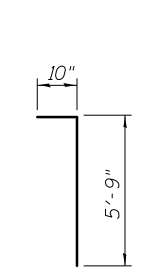
**PILE DATA**

Type: Steel HP 14X89 w/pile shoes  
 Nominal Required Bearing: 249 kips  
 Factored Resistance Available: 136 kips  
 Est. Length: 40'  
 No. Production Piles: 5  
 No. Test Piles: 1

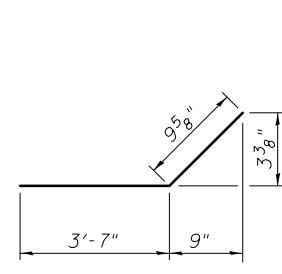


**FIELD CUTTING DIAGRAM**

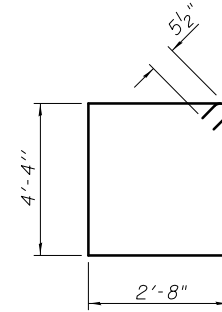
Order v<sub>3</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.



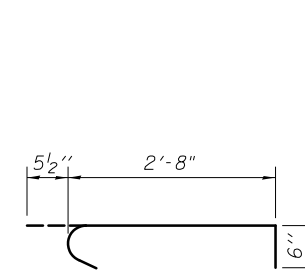
**BAR v<sub>1</sub>(E)**



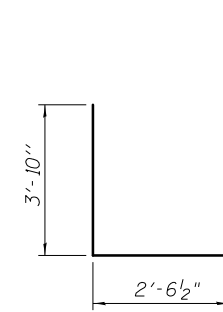
**BAR h<sub>2</sub>(E)**



**BAR s<sub>2</sub>(E)**



**BAR s<sub>1</sub>(E)**



**BAR u(E)**

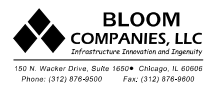
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
h(E)	24	#4	7'-3"	—	
h <sub>1</sub> (E)	8	#5	4'-2"	—	
h <sub>2</sub> (E)	4	#5	4'-4 5/8"	—	
p <sub>2</sub> (E)	28	#7	17'-3"	—	
s <sub>1</sub> (E)	12	#5	3'-7 1/2"	□	
s <sub>2</sub> (E)	38	#5	14'-11"	□	
u(E)	10	#6	10'-2 1/2"	□	
v <sub>1</sub> (E)	108	#5	6'-7"	□	
v <sub>2</sub> (E)	8	#5	6'-1"	□	
v <sub>3</sub> (E)	8	#5	10'-8 1/2"	□	
Structure Excavation				Cu. Yd.	61
Concrete Structures				Cu. Yd.	19.7
Reinforcement Bars, Epoxy Coated				Pound	2,820
Furnishing Steel Piles HP 14X89				Foot	200
Driving Piles				Foot	200
Piles Shoes				Each	6
Test Pile, Steel HP 14X89				Each	1

**Notes:**

- ① For details of piles see sheet S-14
- ② B.F. denotes back face. F.F. denotes front face
- ③ See Sec. Thru Abut.
- ④ See Field Cutting Diagram
- ⑤ For details of Bar Splicers, see sheet S-15

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 DESIGNED - RJO  
 CHECKED - BT  
 PLOT SCALE = N/A  
 DRAWN - JA  
 CHECKED - 3/29/18  
 PLOT DATE = 4/25/2018

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 CHECKED - BT  
 DRAWN - JA  
 CHECKED - 3/29/18  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT DETAILS  
 STRUCTURE NO. 006-0188**

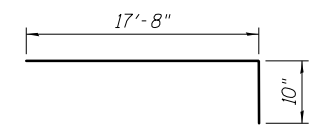
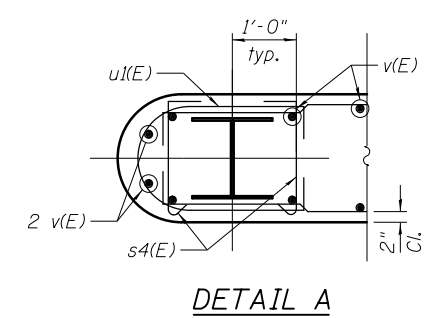
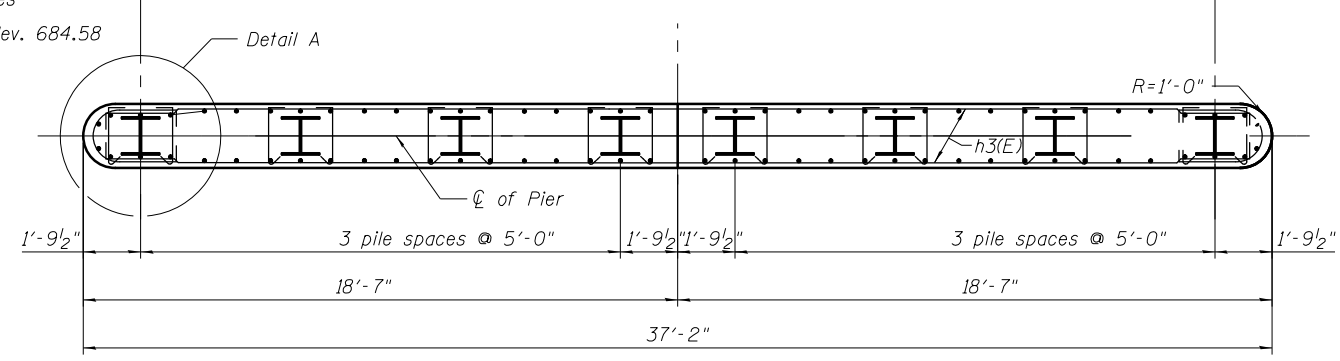
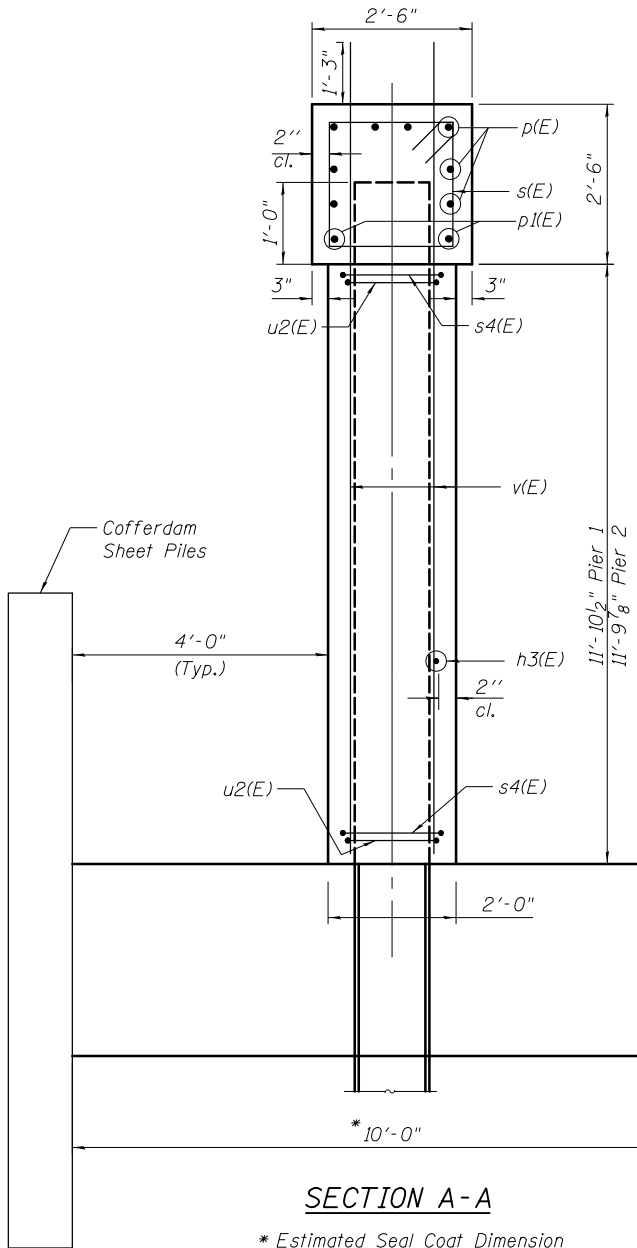
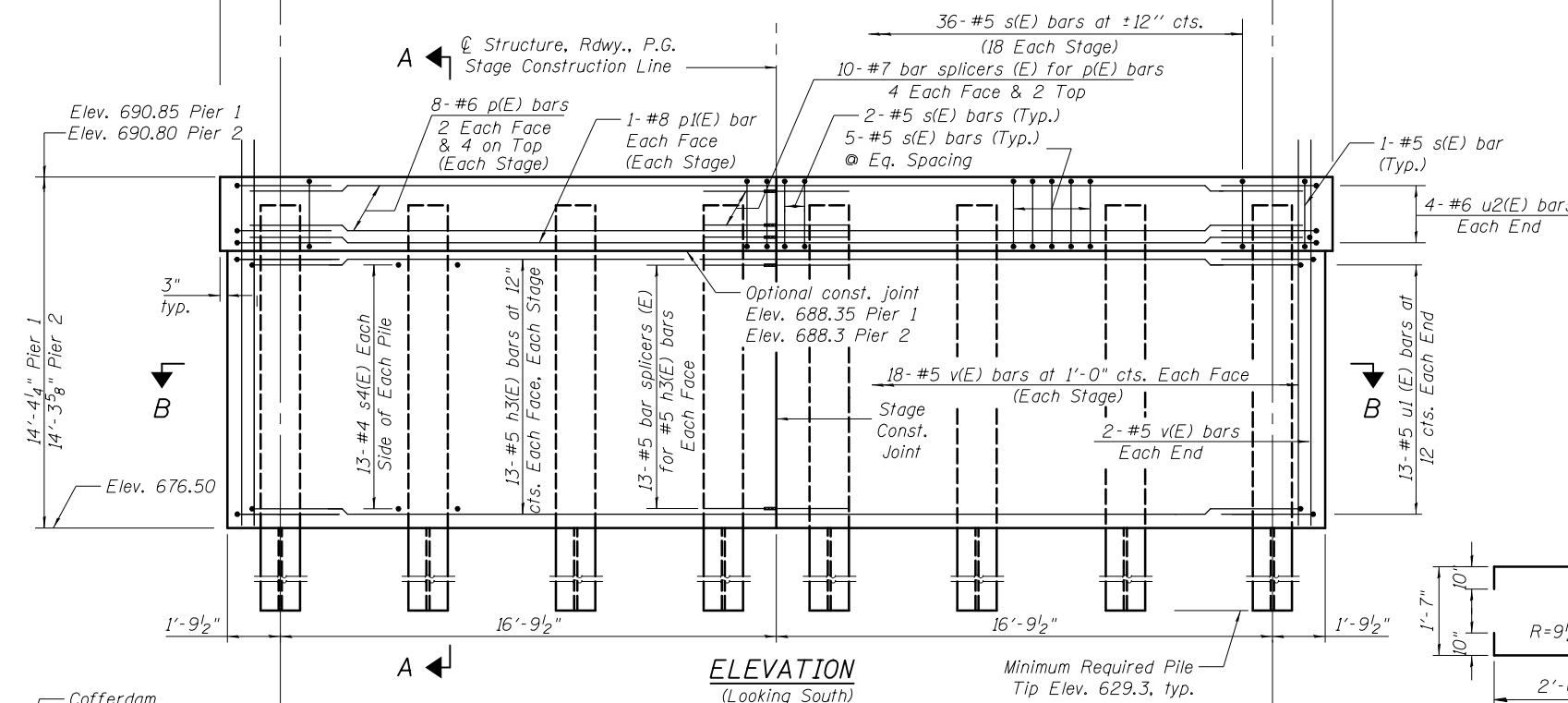
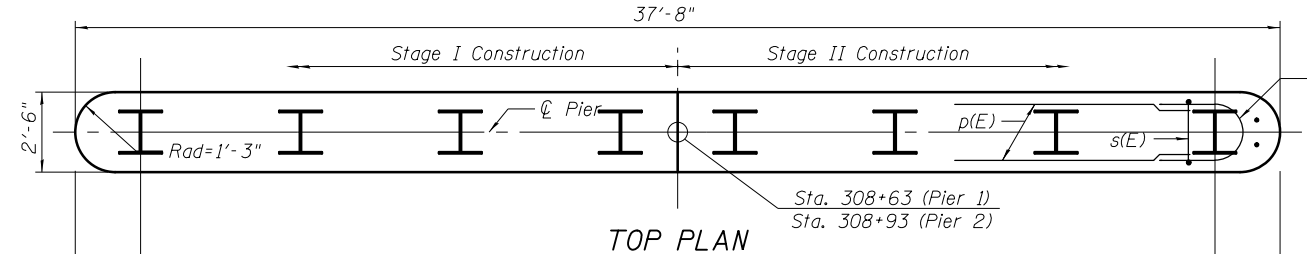
SHEET NO. S-12 OF S-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

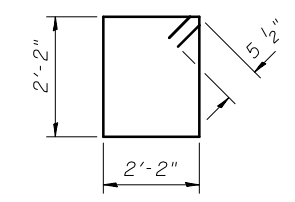
Notes:  
 For details of piles, see sheet S-14.  
 For details of bar splicers, see sheet S-15.

**PILE DATA**

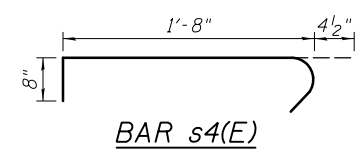
Type: Steel HP 14X89 with pile shoes  
 Nominal Required Bearing: 345 kips S. Pier, 374 kips N. Pier  
 Factored Resistance Available: 160 kips S. Pier, 168 kips N. Pier  
 Est. Length: 60 ft. both Piers  
 No. Production Piles: 14 (7 per pier)  
 No. Test Piles: 2 (1 per pier)



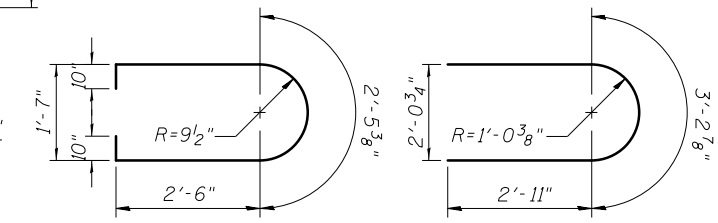
BAR h3(E)



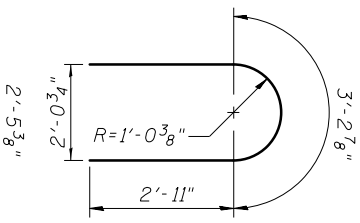
BAR s(E)



BAR s4(E)



BAR u1(E)

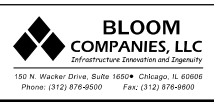


BAR u2(E)

**BILL OF MATERIAL  
TWO PIERS**

Bar	No.	Size	Length	Shape
h3(E)	104	#5	18'-6"	┌
p(E)	32	#6	17'-8"	—
p1(E)	8	#8	17'-8"	—
s(E)	72	#5	9'-7"	┐
s4(E)	416	#4	2'-8 1/2"	┌
u1(E)	52	#5	9'-1 3/8"	┐
u2(E)	16	#6	9'-0 1/8"	┐
v(E)	152	#5	15'-7"	—
Cofferdam Excavation	Cu. Yd.		238	
Concrete Structures	Cu. Yd.		73.6	
Reinforcement Bars, Epoxy Coated	Pound		7,900	
Furnishing - Steel Piles HP 14X89	Foot		840	
Driving Piles	Foot		840	
Test Pile, Steel HP 14X89	Each		2	
Pile Shoes	Each		16	
Seal Coat Concrete	Cu Yd		98.5	

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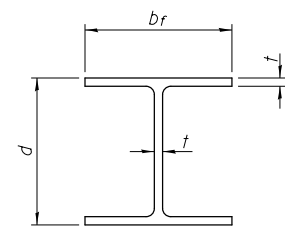


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PLOT SCALE = N/A	CHECKED - BT	REVISED
PLOT DATE = 4/25/2018	DRAWN - JA	REVISED
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

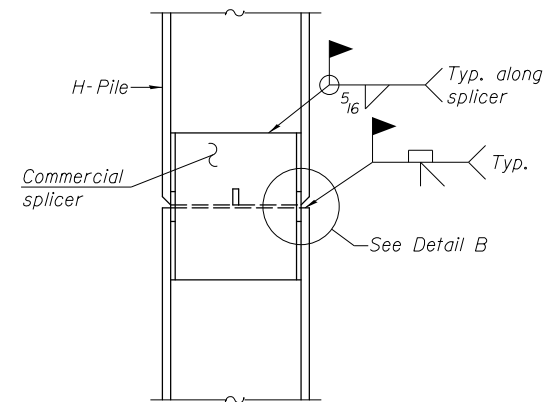
**PIERS  
STRUCTURE NO. 006-0188**  
 SHEET NO. S-13 OF S-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	35
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

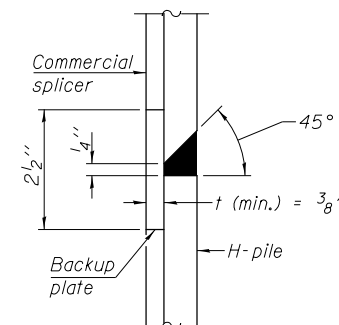


**STEEL PILE TABLE**

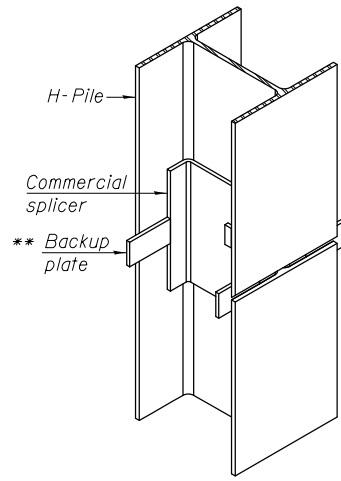
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



**ELEVATION**

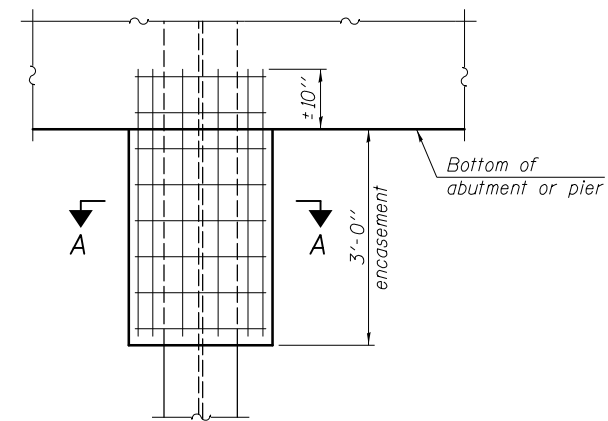


**DETAIL "B"**

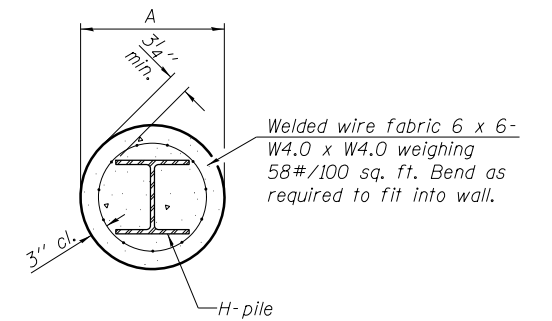


**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**

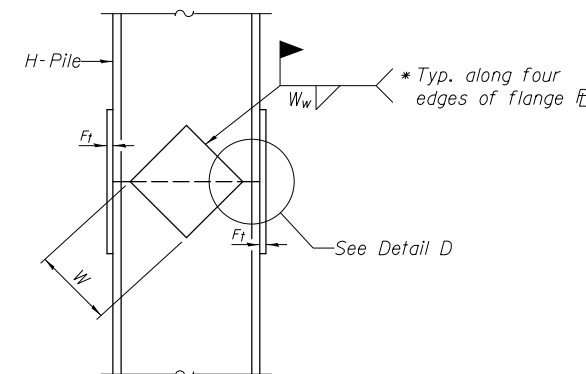


**ELEVATION**

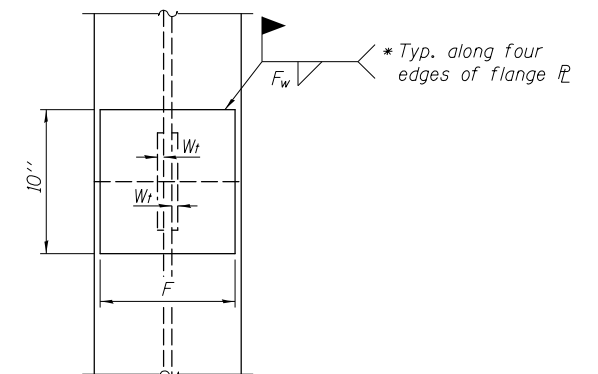


**SECTION A-A**

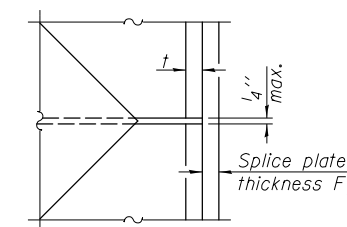
**PILE ENCASEMENT**



**ELEVATION**



**END VIEW**



**DETAIL D**

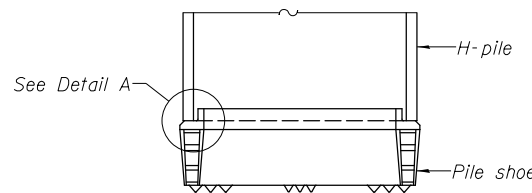
**WELDED PLATE FIELD SPLICE**

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

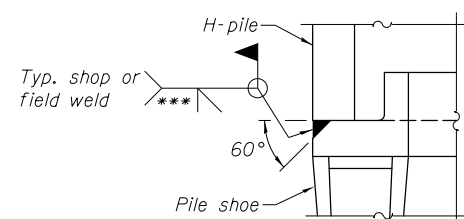
**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

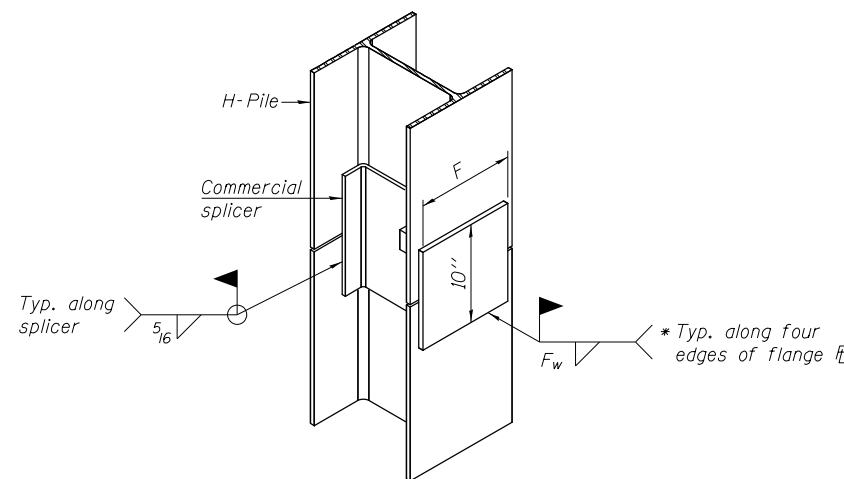


**ELEVATION**



**DETAIL A**

**H-PILE SHOE ATTACHMENT**



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

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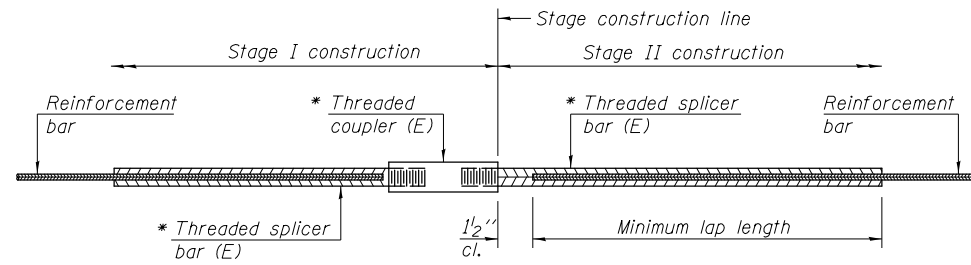
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	CHECKED - 3/29/18	REVISED

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**HP PILE DETAILS  
STRUCTURE NO. 006-0188**

SHEET NO. S-14 OF S-18C SHEETS

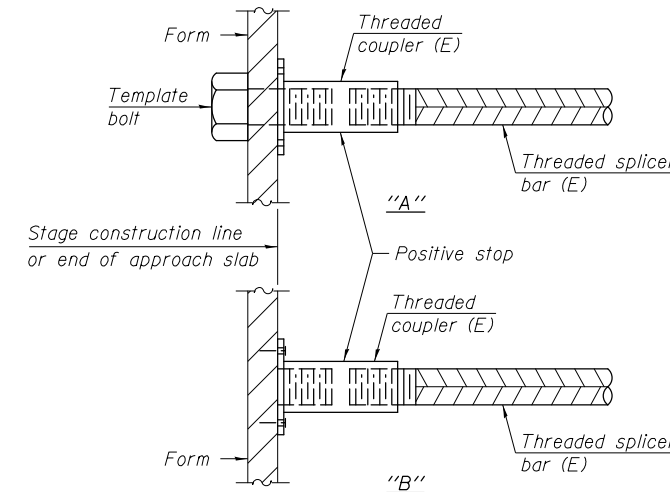
F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	36
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				



**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1/2" + thread length  
 \* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Superstructure	#6	205	3'-10"
Abutments	#7	28	5'-0"
Piers (Cap)	#7	20	5'-0"
Piers (Wall)	#5	52	3'-3"
Approach Slabs	#5	92	3'-3"
Approach Slabs	#8	120	6'-4"
Approach Footing	#5	80	3'-3"



**INSTALLATION AND SETTING METHODS**

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

**NOTES**

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

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**STATE OF ILLINOIS  
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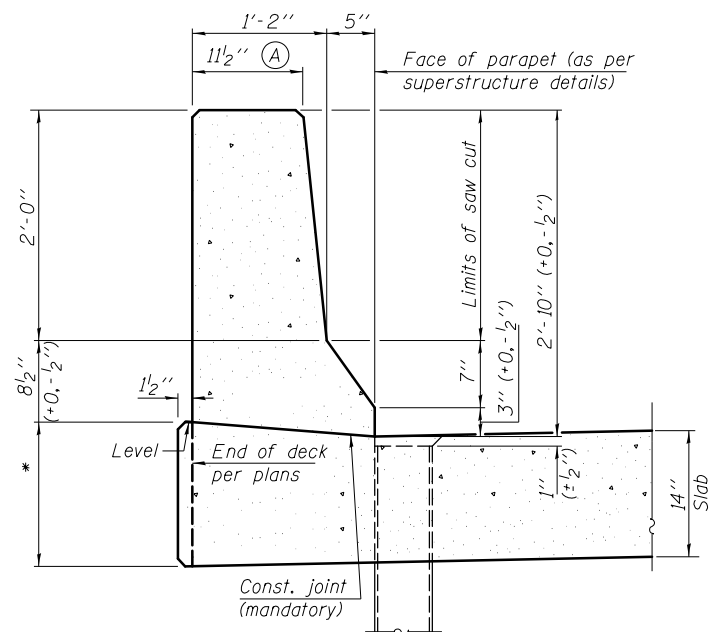
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 006-0188**

SHEET NO. S-15 OF S-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	37
			CONTRACT NO. 66A21	
ILLINOIS FED. AID PROJECT				

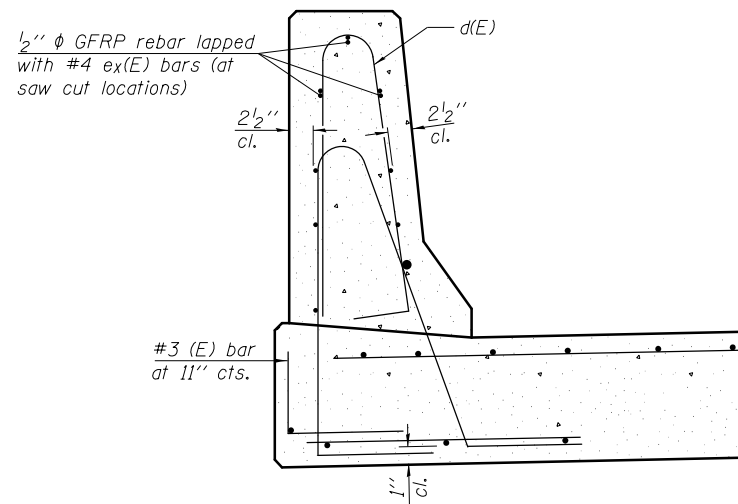
**GENERAL NOTES**

All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Full thickness saw cut at all joint locations in lieu of cork joint filler.



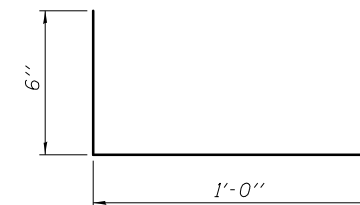
\*See Superstructure Details.

**34" F SHAPE PARAPET SECTION**  
(Showing dimensions)

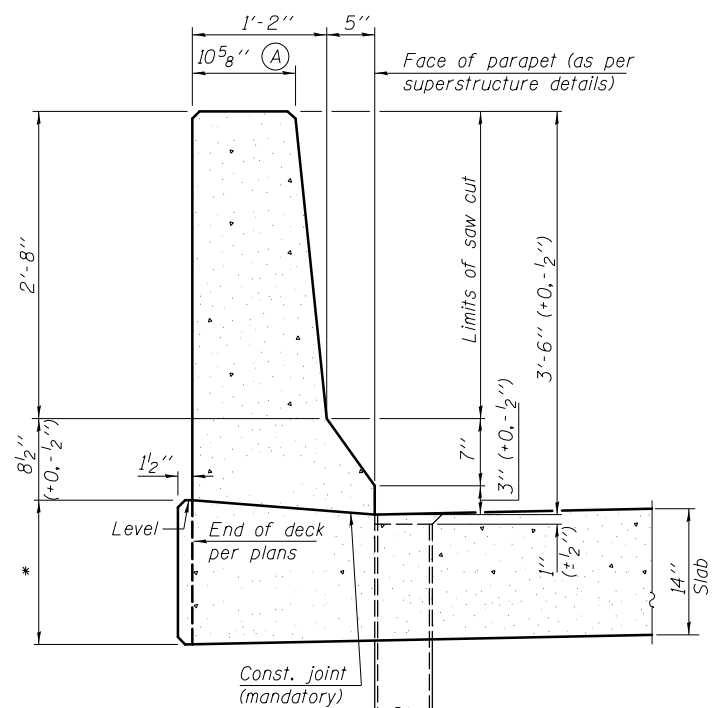


**SECTION**

(34" parapet shown - 42" parapet similar)  
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

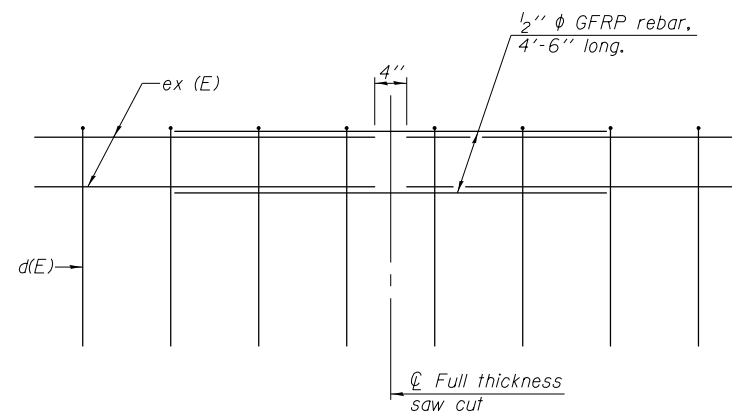


**#3 (E) BAR**



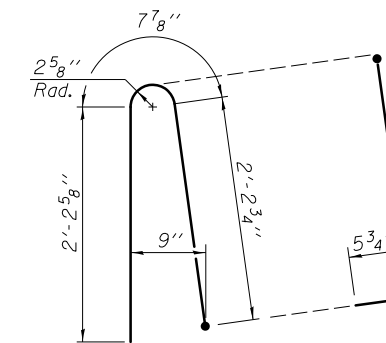
\*See Superstructure Details.

**42" F SHAPE PARAPET SECTION**  
(Showing dimensions)

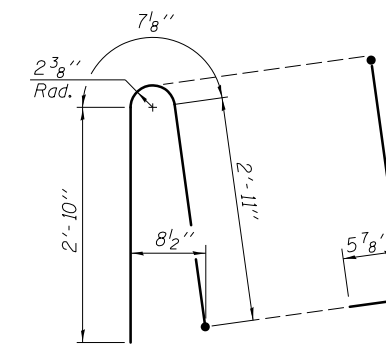


**GFRP REBAR STIFFENING DETAIL**

(Place as shown in parapet section at each parapet joint location.)



**ALTERNATE BAR d(E)**  
(For 34" parapet when conduit is present)



**ALTERNATE BAR d(E)**  
(For 42" parapet when conduit is present)

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USER NAME = jandrews	DESIGNED - RJ0	REVISED
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PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 4/25/2018	CHECKED - 3/29/18	REVISED

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DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION  
STRUCTURE NO. 006-0188**

SHEET NO. S-16 OF S-18C SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101 BR-2)BR	BUREAU	62	38
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				



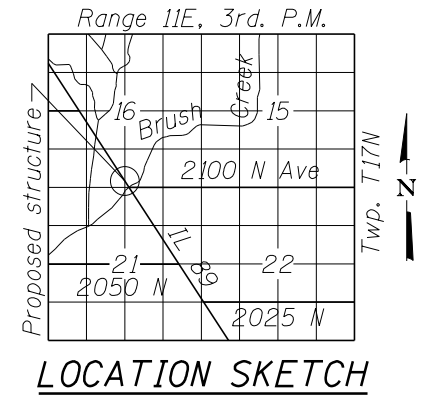
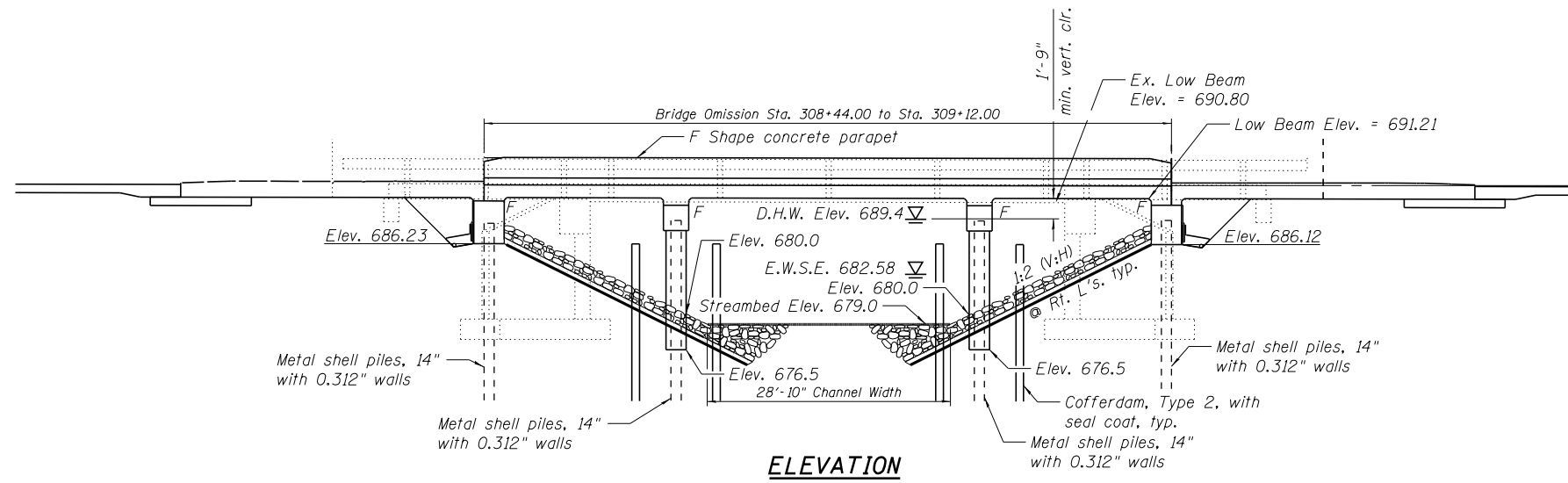




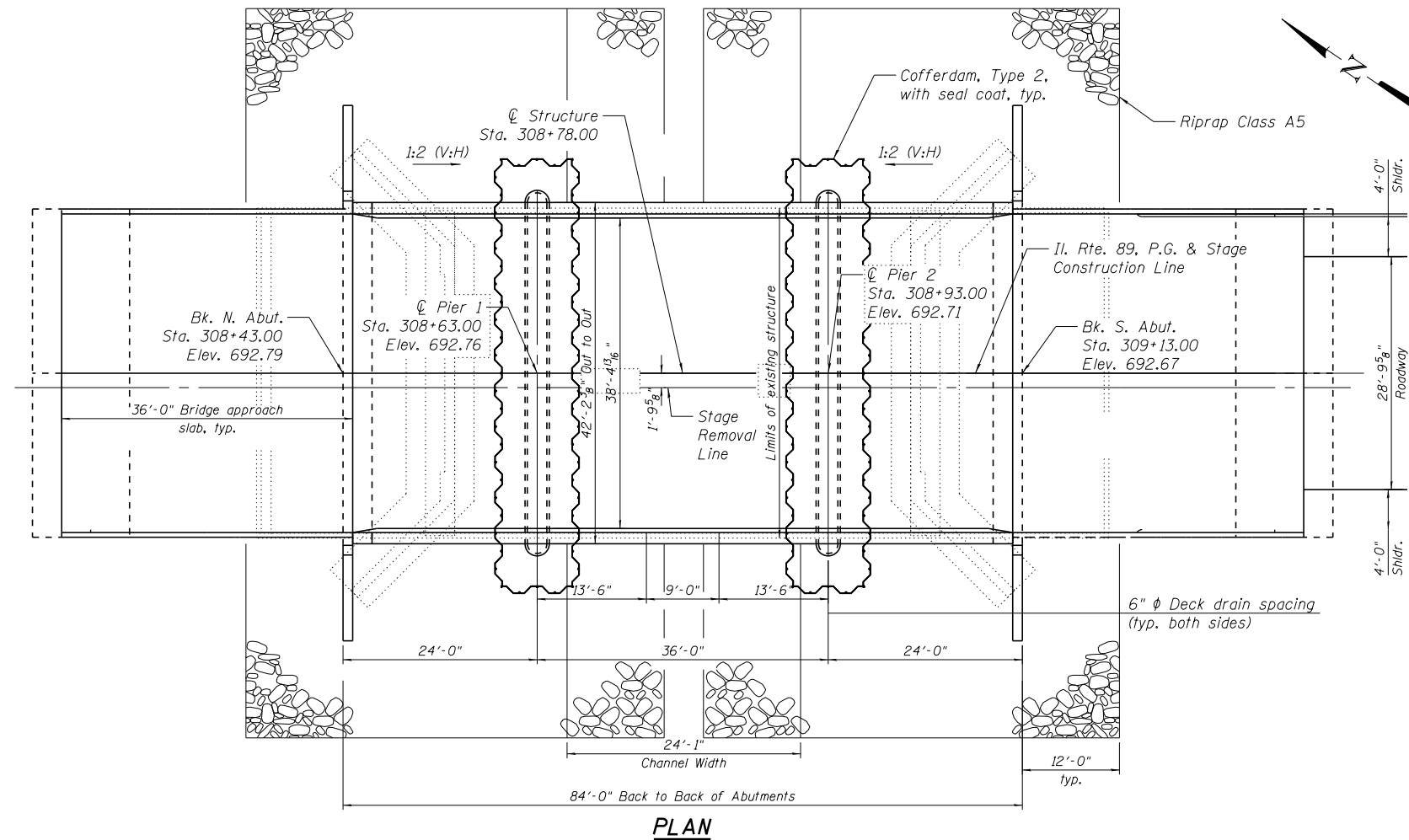




EXHIBIT



**FOR INFORMATION ONLY**



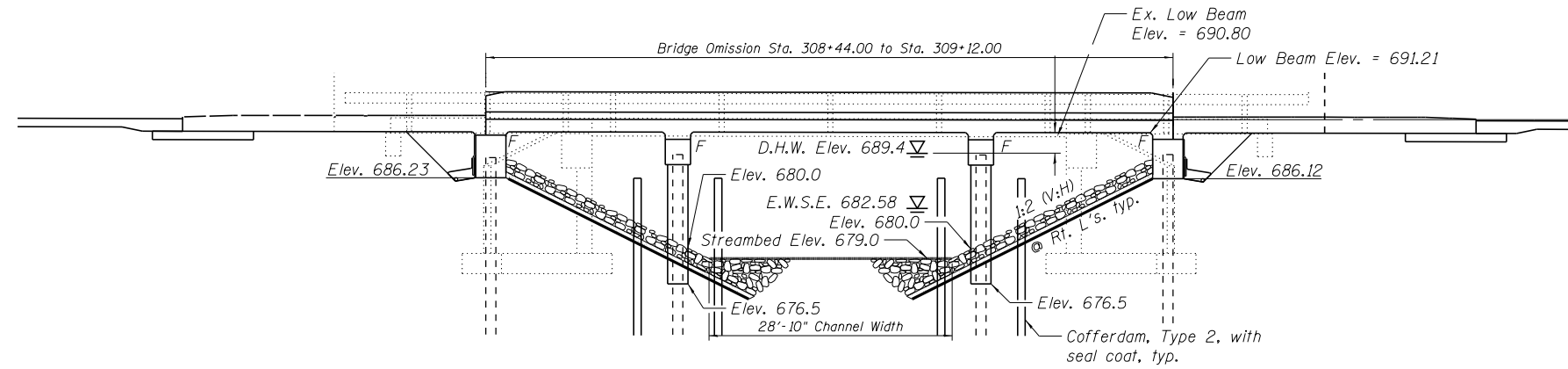
SEE SPECIAL PROVISIONS:  
 "TEMPORARY CONSTRUCTION / WATERWAY PERMITS (CORPS OF ENGINEERS)"  
 "TEMPORARY CONSTRUCTION / WATERWAY PERMITS (IDNR)"

**GENERAL PLAN**  
**ILLINOIS ROUTE 89 OVER**  
**BRUSH CREEK**  
**F.A.P. RTE. 698 - SEC. (101 BR-2) BR**  
**BUREAU COUNTY**  
**STA. 308+78.00**  
**EXISTING SN 006-0106**  
**PROPOSED SN 006-0188**

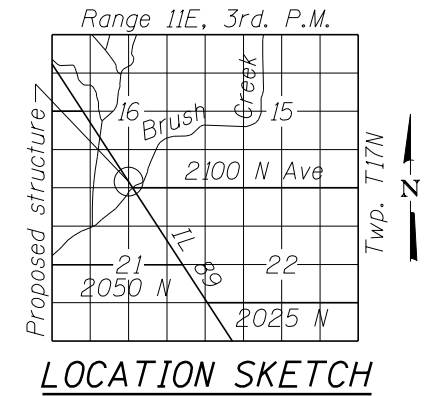
NOT TO SCALE

FILE NAME =	USER NAME = GedyRA	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING S.N. 006-0106 404 PERMIT CAUSEWAY / WORK PAD PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 3\Projects\0366\0366\0366A21\0366A21-404\0366A21-404.dgn	DRAWN	CHECKED -	REVISED -			698	(101 BR-2 BR)	BUREAU	62	41
PLOT SCALE = 20:0.0000 1" / 10'	DATE -	REVISED -	REVISED -			CONTRACT NO. 66A21			ILLINOIS FED. AID PROJECT	
Default	PLOT DATE = 7/27/2017	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.		

EXHIBIT

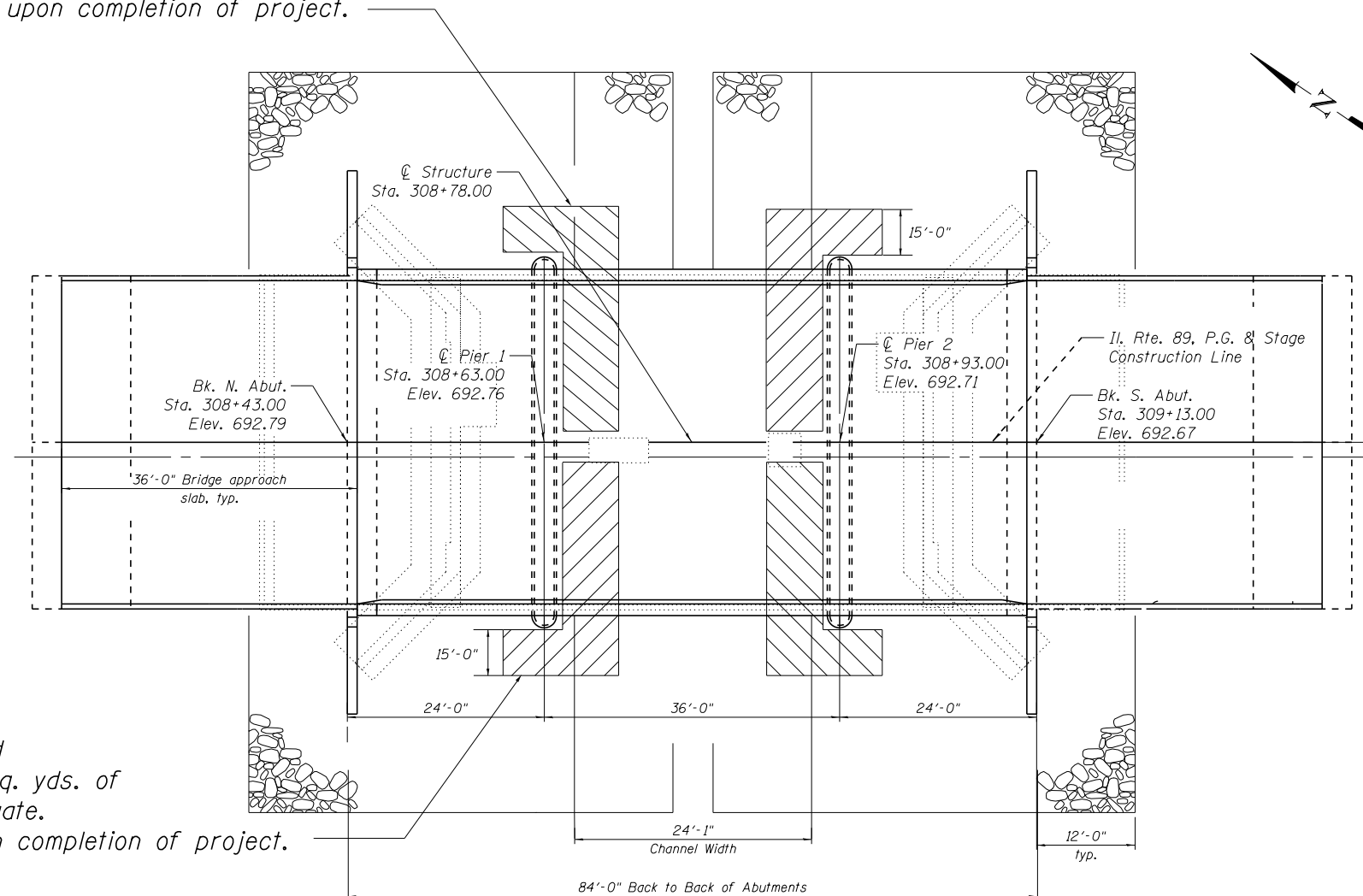


**ELEVATION**



**FOR INFORMATION ONLY**

Temporary work pad  
approximately 67 sq. yds. of  
clean coarse aggregate.  
To be removed upon completion of project.



**PLAN**

Temporary work pad  
approximately 67 sq. yds. of  
clean coarse aggregate.  
To be removed upon completion of project.

SEE SPECIAL PROVISIONS:

"TEMPORARY CONSTRUCTION / WATERWAY PERMITS (CORPS OF ENGINEERS)"

"TEMPORARY CONSTRUCTION / WATERWAY PERMITS (IDNR)"

**GENERAL PLAN**  
**ILLINOIS ROUTE 89 OVER**  
**BRUSH CREEK**  
**F.A.P. RTE. 698 - SEC. (101 BR-2) BR**  
**BUREAU COUNTY**  
**STA. 308+78.00**  
**EXISTING SN 006-0106**  
**PROPOSED SN 006-0188**

NOT TO SCALE

FILE NAME =	USER NAME = GedyRA	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING S.N. 006-0106 404 PERMIT CAUSEWAY / WORK PAD PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\0366\Drawings\CADsheets\0366A21-sht-404 per 0366.dgn	PLOT SCALE = 20:0.0000 ' / in.	CHECKED -	REVISED -			698	(101 BR-2 BR)	BUREAU	62	42
Default	PLOT DATE = 7/27/2017	DATE -	REVISED -			CONTRACT NO. 66A21		ILLINOIS FED. AID PROJECT		

Bench Mark - Chisled "B" N.P.N. wingwall Elev. 672.72  
 Existing Structure - No. 006-0106 Built in 1977 as 301 Rt. 162  
 Section 101D of Station 308+78.0 One 48' Span, R.C.  
 thru girder superstructure on R.C. closed abutments.  
 Existing superstructure to be removed by Bridge  
 Contractor. No salvage. Traffic shall be maintained  
 utilizing stage construction and temporary guardrail.  
 Bk. to Bk. Abuts. = 47'-0". Superstructure width o. to o. of deck = 25'-8"

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**FOR INFORMATION ONLY**

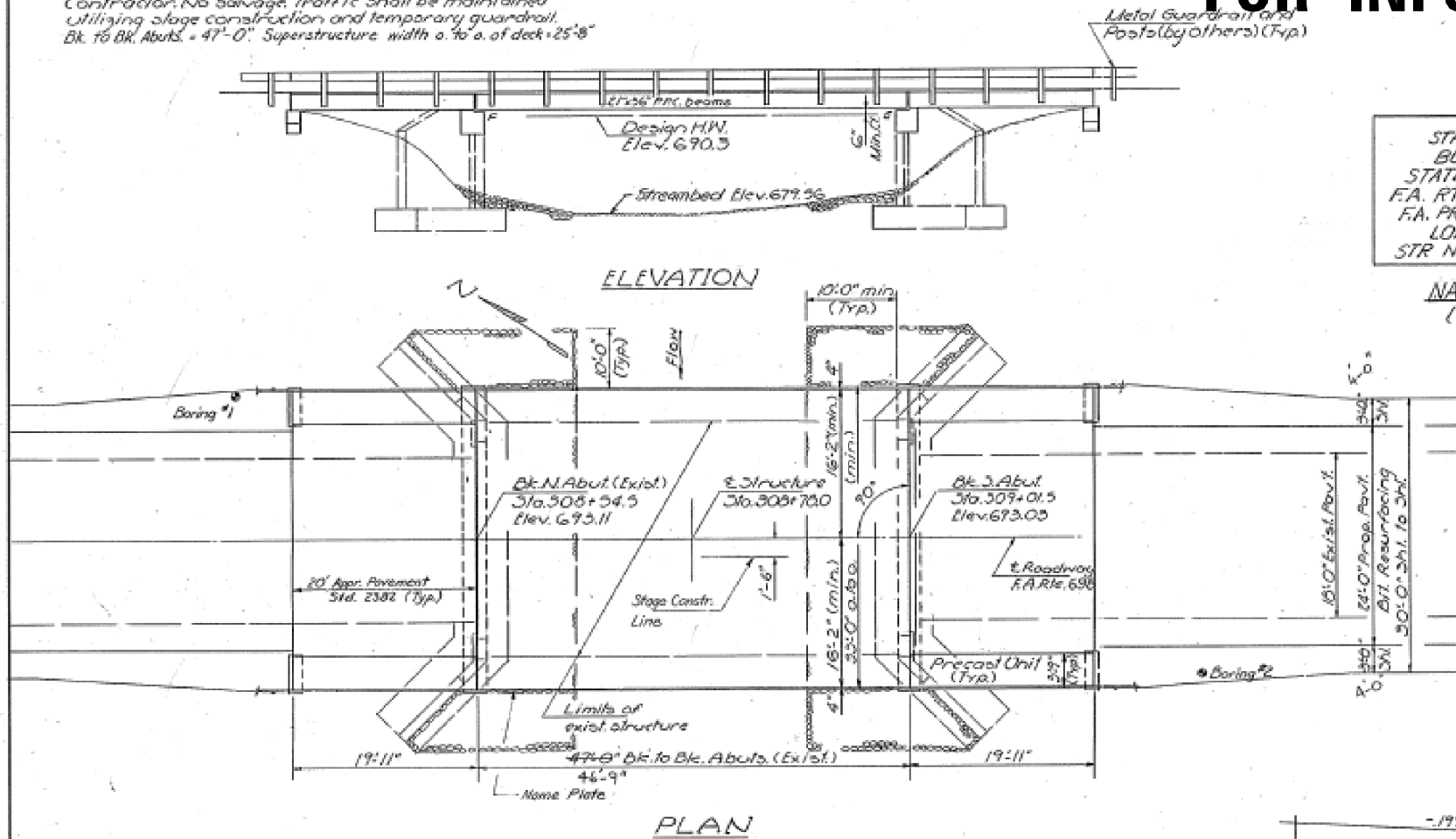
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
006-0106	101BR-2	BUREAU	62	28
DATE	BY	APP'D	CHECKED	SCALE

**GENERAL NOTES**

See Proposal for boring data.  
 All structural steel shall be shop painted with two coats of basic lead silico chromate paint.  
 Expansion girds which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(a) of the Standard Specifications and are included in quantity of Structural Steel.  
 Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specification except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a min. of 4".  
 Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4000 lbs, and 3/4" x 12" hooked bolts.  
 Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.  
 Shoulder transition to wingwall shall be shaped with broken concrete. Cost incidental.  
 A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.

STATION 308+78.0  
 BUILT BY  
 STATE OF ILLINOIS  
 F.A. RT. 698 SEC. 101BR-2  
 F.A. PROJ. BR-F-698 (4)  
 LOADING H320  
 STR NO. 006-0106

NAME PLATE  
 (Std 2113)



**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course Class I	Ton	17		17
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		9	9
Expansion Bolts 3/4"	Each		42	42
Class X Concrete	Cu. Yd.	0.7	33.2	33.9
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (Depth)	Sq. Ft.	1557		1557
Structural Steel	Pound	2310		2310
Steel Purling, Type S-1	Lin. Ft.	179		179
Reinforcement Bars	Pound	180	4680	4860
Name Plates	Each	1		1
Temporary Bridge Rail	Lin. Ft.	48		48
Preformed Joint Seal (26')	Lin. Ft.	33		33
Waterproofing Membrane System	Sq. Yd.	192		192
Portland Cement Mortar Facing Course	Lin. Ft.	472		472
Stone Riprap	Sq. Yd.		123	123
Temporary Silt Surt System	Lin. Ft.	1		1
Structure Excavation	Cu. Yd.		19.2	19.2

4" Bedding  
 12" min. Riprap Layer  
**SEC. THRU STONE RIPRAP**

**WATERWAY INFORMATION**

Drainage Area 22.3 Sq. Mi. Low Grade Elev. 691.2 @ Sta.

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	50	2938	398	398	690.2	1.88	1.88	692.08	692.08	
Base	100	3361	398	398	690.4	1.98	1.98	692.38	692.38	
Overtopping	30	2612	398	398	689.9	1.50	1.50	691.40	691.40	
Max. Calc.	500									

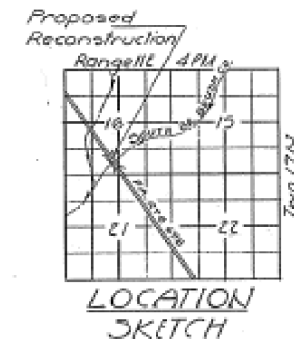
**DESIGN STRESSES**

**FIELD UNITS**  
 f<sub>c</sub> = 4000 psi Sub.  
 f<sub>s</sub> = 20,000 psi Reinf.

**PRECAST PRESTR. UNITS**  
 f<sub>c</sub> = 5000 psi  
 f<sub>c</sub> = 4000 psi  
 f<sub>s</sub> = 270,000 psi 5/8" strands  
 f<sub>s</sub> = 189,000 psi 5/8" strands

**PRECAST UNITS**  
 f<sub>c</sub> = 4500 psi  
 f<sub>c</sub> = 1800 psi  
 f<sub>s</sub> = 20,000 psi  
 n = 8

Allow 25% for Full Wearing Surface  
**LOADING H320-44 (New Construction)**



**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION**  
 F.A. RT. 698 OVER SOUTH BR. OF BRUSH CREEK  
 F.A. ROUTE 698  
 SECTION 101 BR-2  
 BUREAU COUNTY  
 STATION 308+78.0

DESIGNED: [Signature]  
 CHECKED: [Signature]  
 DRAWN: Joe Sutherland  
 CHECKED: [Signature]

EXAMINED: James J. Kavanagh  
 PASSED: [Signature]  
 APPROVED: [Signature]



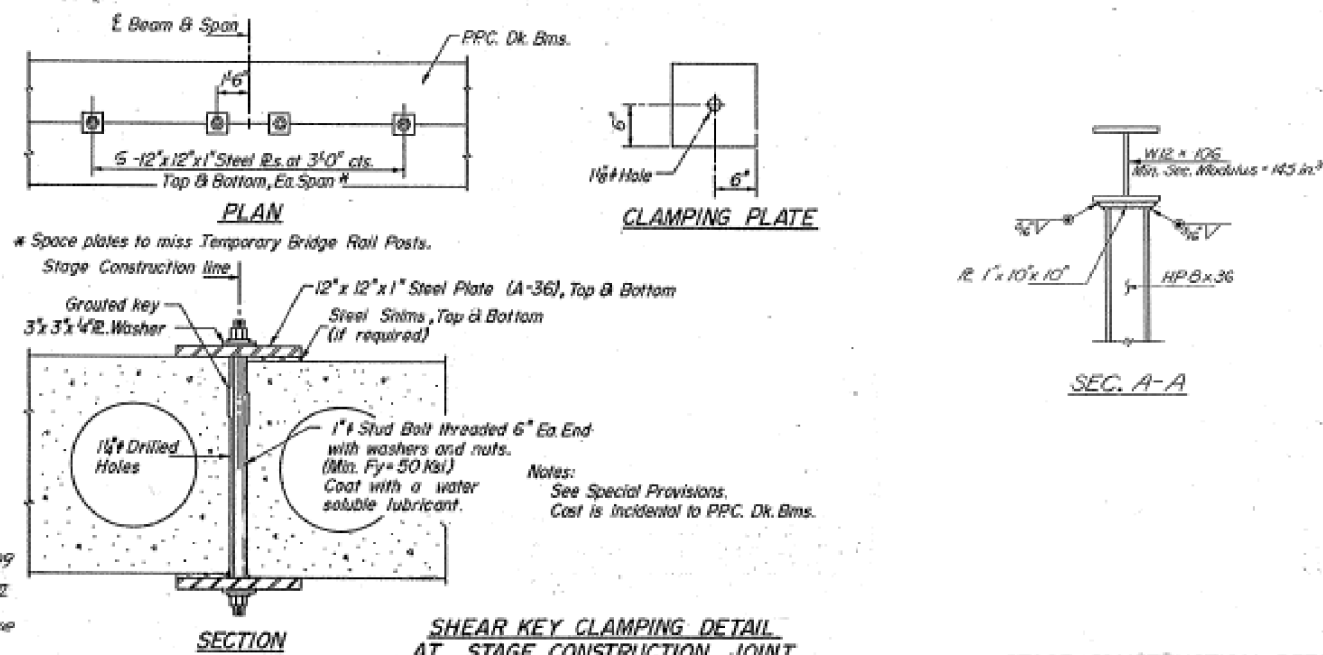
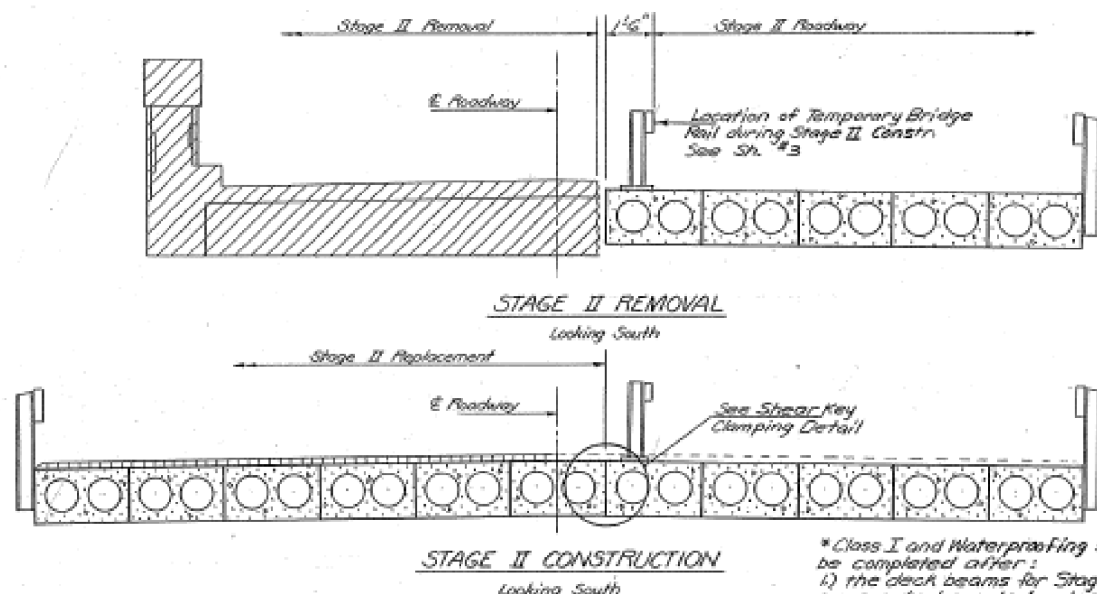
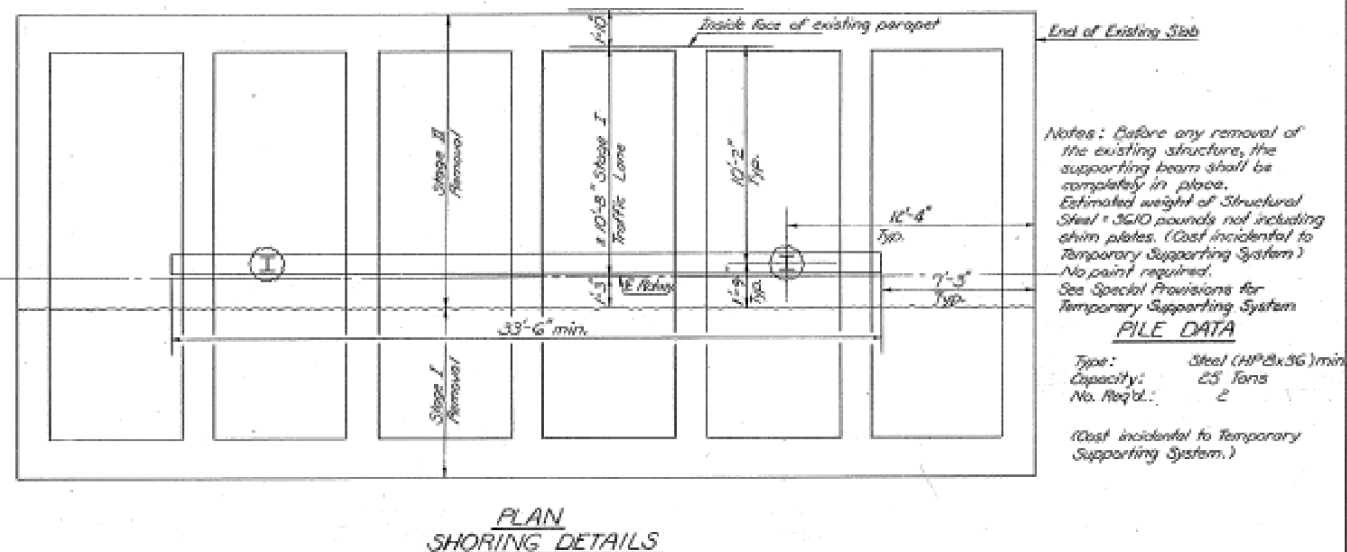
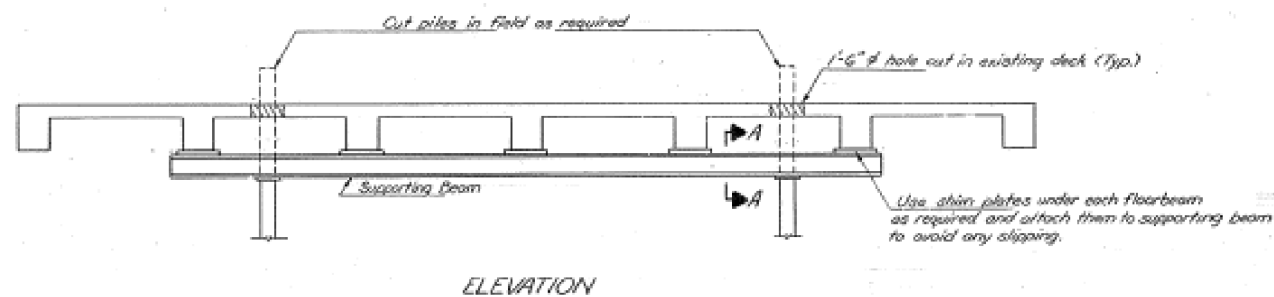
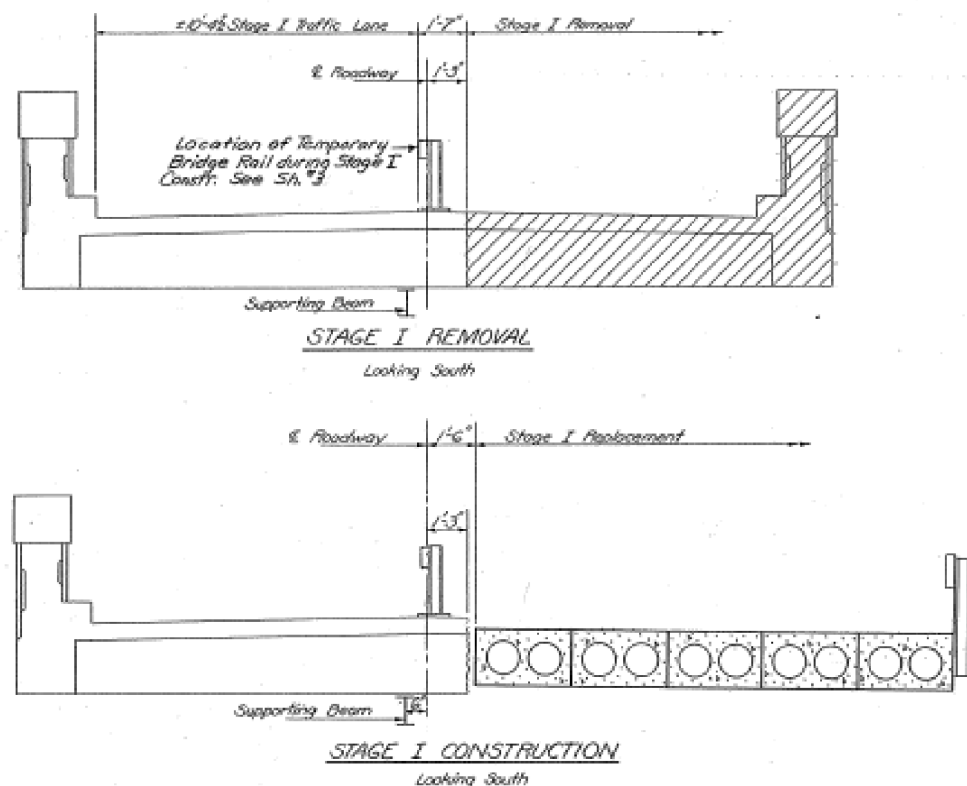
Design Specifications  
 AASHTO 1977 & Interims  
 (as applicable)

Updated by SKD 10-29-81 Revised 2-9-82 SKD

# FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	BY	REASON	SHEET NO.
11/18/11	1	ELI/ELPA/L	3/16	29
SHEET NO. 2 9 SHEETS				



DESIGNED	James J. Kowalski	DATE	Dec. 9, 2010
CHECKED	Frank F. Jacobs	PASSED	James J. Kowalski
DRAWN	Joe Sutherland	APPROVED	James J. Kowalski
CHECKED	J.S.	APPROVED	James J. Kowalski

- \* Class I and Waterproofing shall be completed after:
- 1) the deck beams for Stage I Const. are erected, grouted and waterproofing and Class I are in place.
  - 2) Temporary Bridge Rail for Stage II Roadway has been removed.
  - 3) Shear key clamping devices have been removed.

**WATERPROOFING TREATMENT**

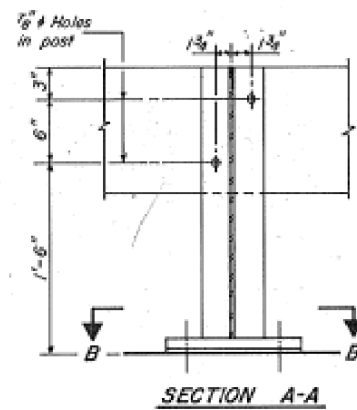
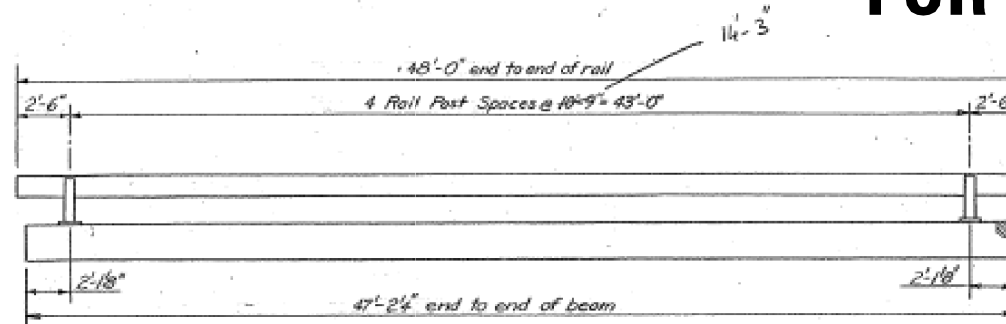
**STAGE CONSTRUCTION DETAILS**  
F.A. RT. 698 SEC. 101 BR-2  
BUREAU COUNTY  
STATION 308+78.00

FILE NAME:	USER NAME:	DESIGNED:	REVISED:
pw\11084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 3\Projects\0366A21\0366A21-shr-Existing	GedyRA	James J. Kowalski	
PLOT SCALE:	CHECKED:	DATE:	REVISED:
2.0000 "/td> <td>Frank F. Jacobs</td> <td>7/27/2017</td> <td></td>	Frank F. Jacobs	7/27/2017	

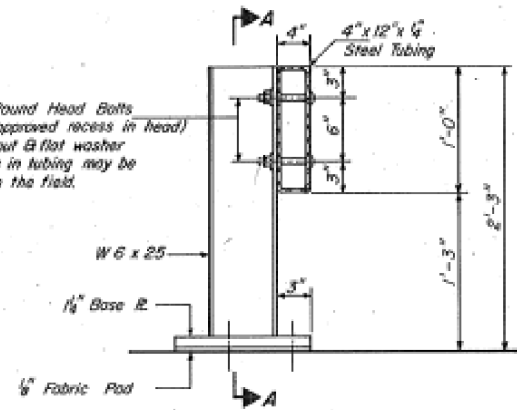
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	101 BR-2/BR	BUREAU	62	44
CONTRACT NO. 66A21				
SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

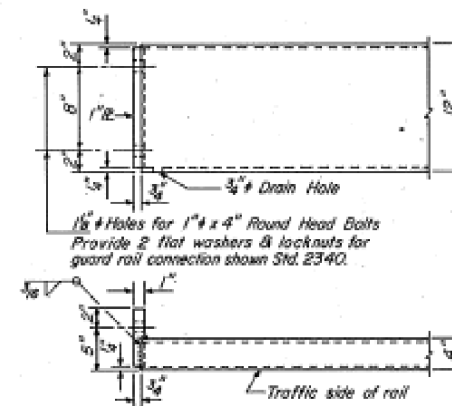
# FOR INFORMATION ONLY



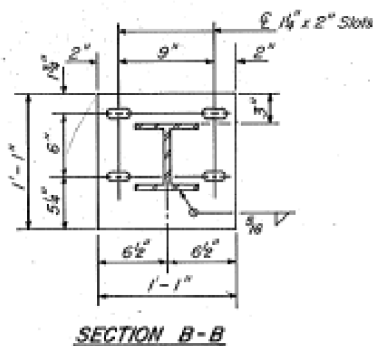
2-3/4" x 6" Round Head Bolts  
(With slot or approved recess in head)  
with locknut & flat washer  
1/8" holes in tubing may be  
drilled in the field.



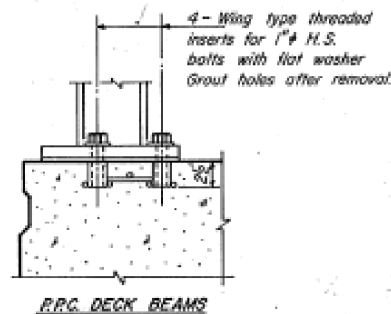
SECTION AT RAIL POST



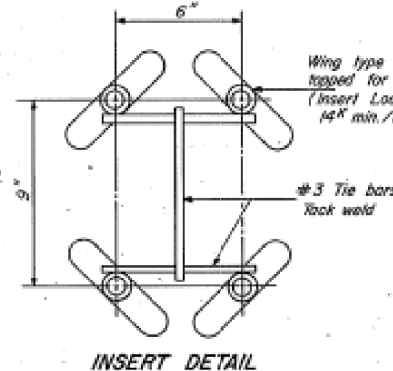
END OF RAIL DETAILS



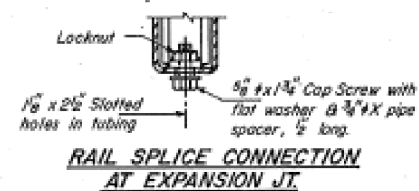
SECTION B-B



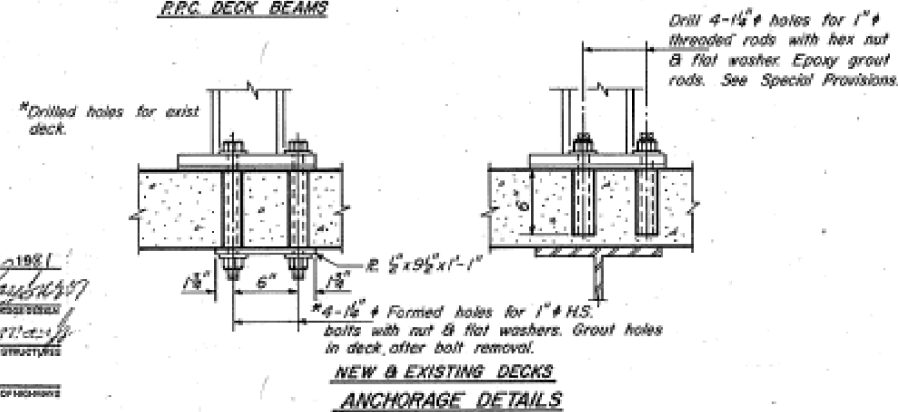
R.R.C. DECK BEAMS



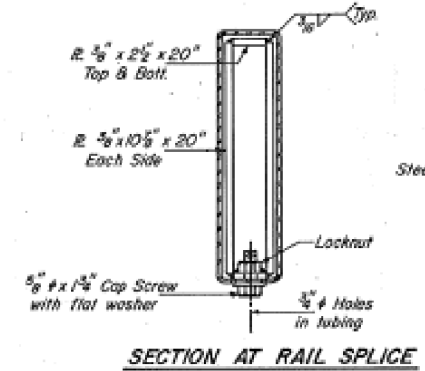
INSERT DETAIL



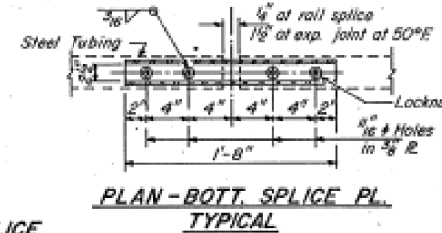
RAIL SPLICE CONNECTION AT EXPANSION JT.



NEW & EXISTING DECKS ANCHORAGE DETAILS



SECTION AT RAIL SPLICE



PLAN-BOTT SPLICE PL. TYPICAL

**NOTES**  
Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B Structural Steel Tubing.  
All other steel shapes and plates shall conform to the requirements of A.A.S.H.T.O. M-163 except posts shall conform to A.A.S.H.T.O. M-223 Grade 50. Bolts, cap screws, and nuts shall conform to the requirement of A.S.T.M. designation A-307 except for high strength bolts, threaded rods, nuts and washers noted which shall conform to A.A.S.H.T.O. M-164.  
The bridge rail shall receive one shop coat of a steel prime paint.  
The 1" high strength bolts or threaded rods used to connect the railposts shall be tightened in accordance with Article 50704(g)(3) of the Standard Specification.  
See Special Provisions for Temporary Bridge Rail.

**BILL OF MATERIAL**

Item	Unit	Quantity
Temporary Bridge Rail	L.in. Ft.	4-B

**TEMPORARY BRIDGE RAIL**  
F.A. RT. 698 SEC. 101 BR-2  
BUREAU COUNTY  
STATION 308+78.00

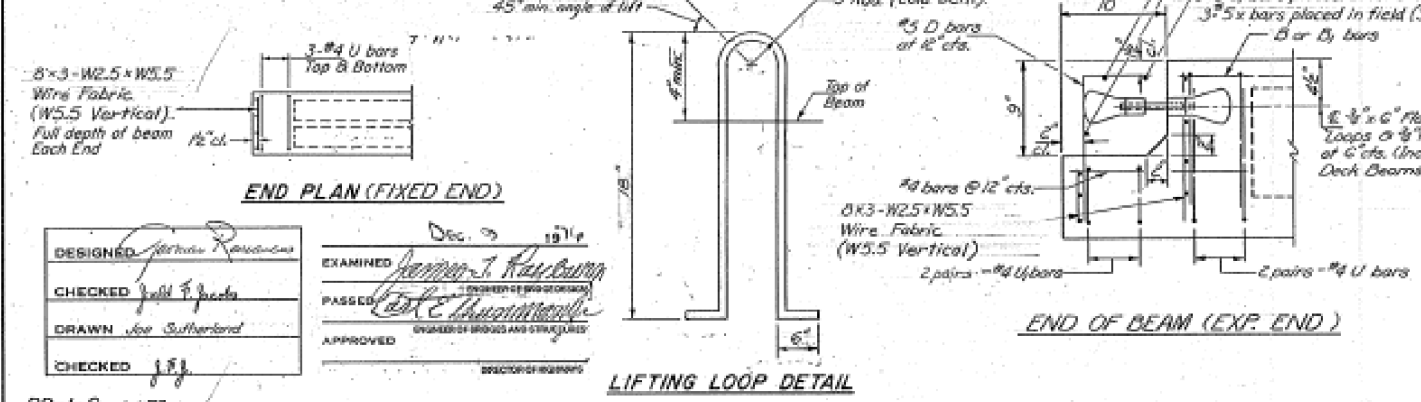
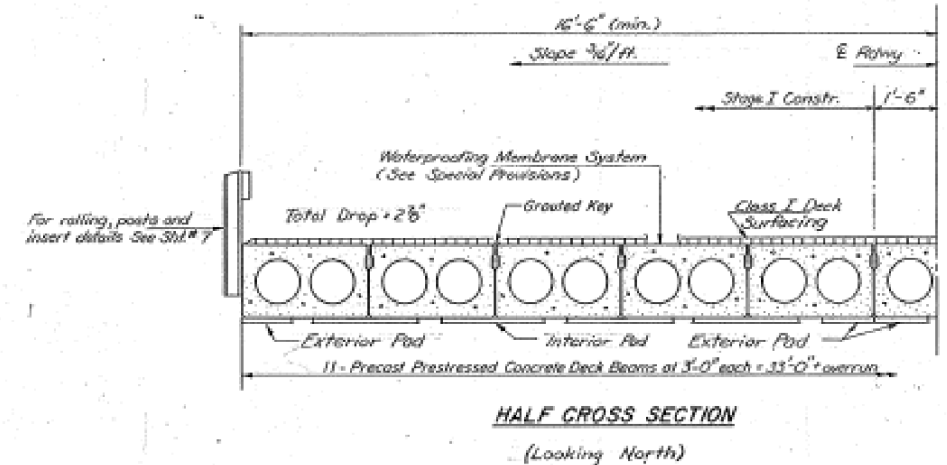
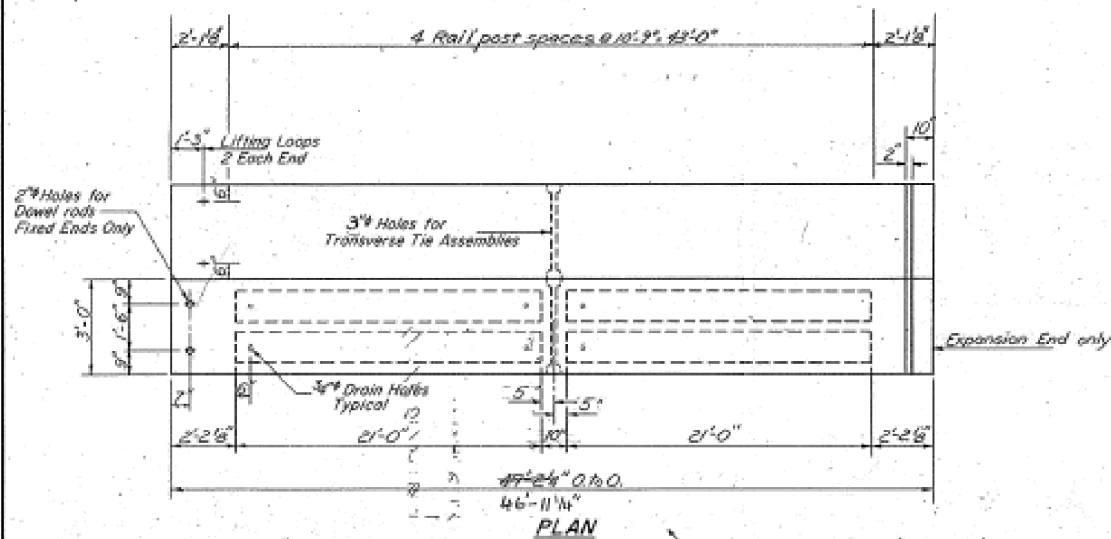
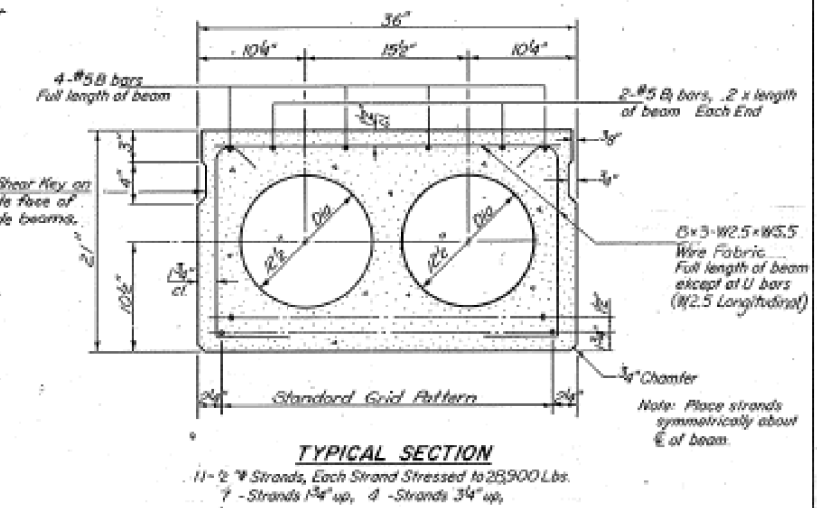
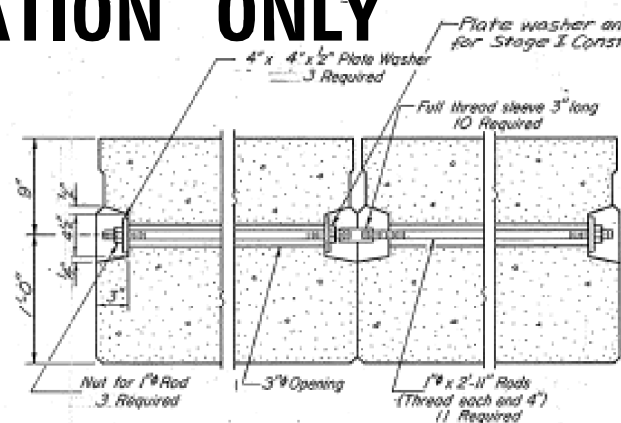
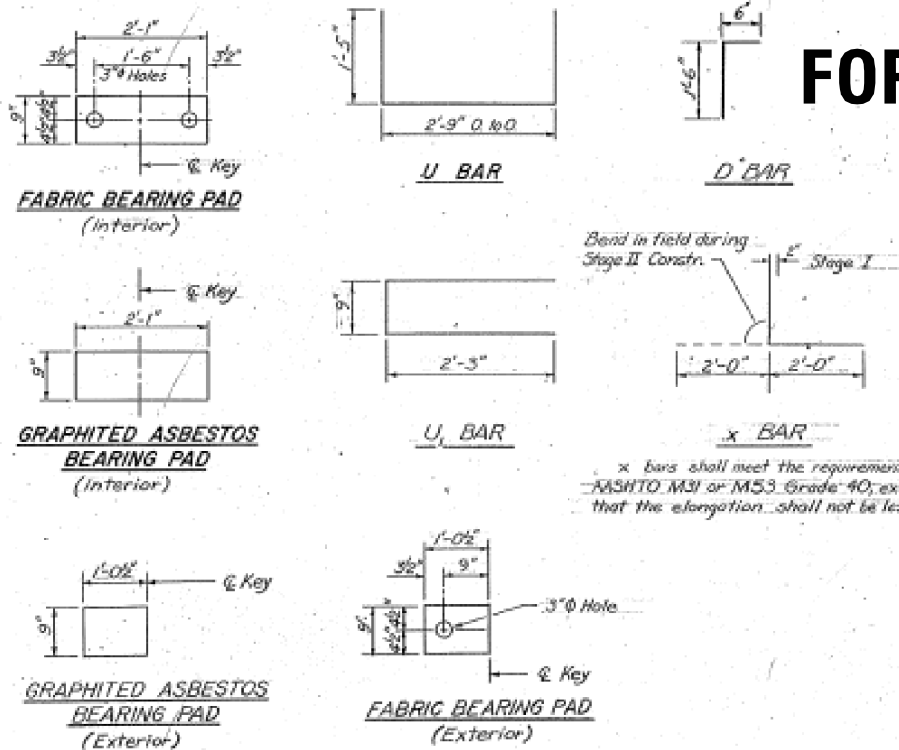
DESIGNED: Steven K. Downey  
CHECKED: [Signature]  
DRAWN: SK-D  
CHECKED: BVG  
December 30, 1981  
EXAMINED: James J. Kambour  
PASSED: [Signature]  
APPROVED: [Signature]  
DIRECTOR OF HIGHWAYS

R-25 8-30-80 (10'-9" Maximum Post Spacing)



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
**FOR INFORMATION ONLY**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4
101 BR-2	BUREAU	BUREAU	62	31	9 SHEETS



**NOTES**

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.85 sq in. Lifting loops shall be 1/2" diameter, 6x25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs. or 2-2" @ 270 ksi as shown.

The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to AASHTO M-31 or M-53, Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	3	#5	15'-0"	
a <sub>1</sub>	3	#5	13'-0"	
x	3	#5	4'-0"	
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.		1557	
Class X Concrete	Cu. Yd.		0.7	
Reinforcement Bars	Pound		120	

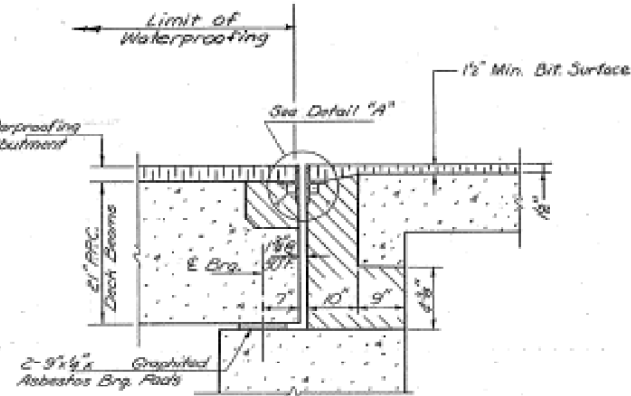
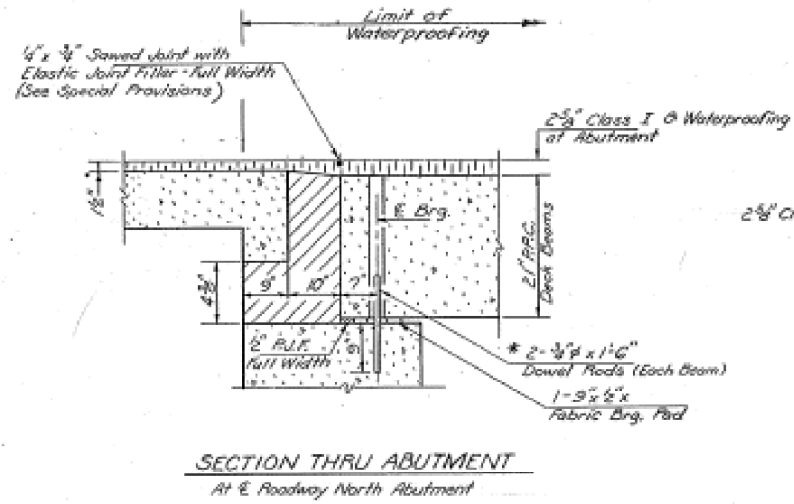
**SUPERSTRUCTURE**  
F.A. RT. 698 SEC. 101 BR-2  
BUREAU COUNTY  
STATION 308+78.00

DESIGNED: *James R. ...*  
CHECKED: *John S. ...*  
DRAWN: *Joe Sutherland*  
APPROVED: *James J. ...*  
DATE: Dec. 3, 1978

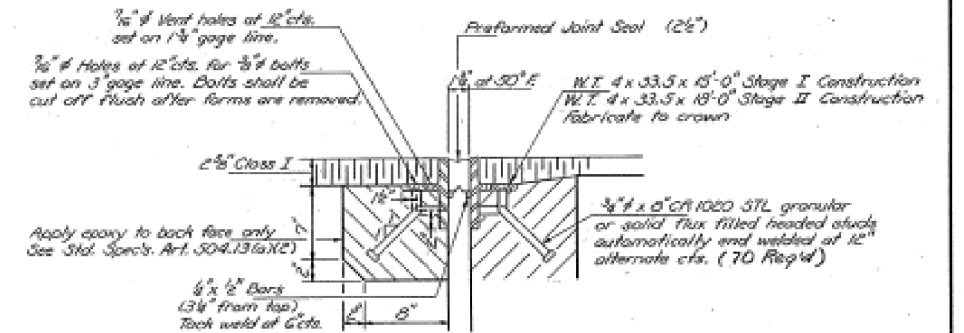
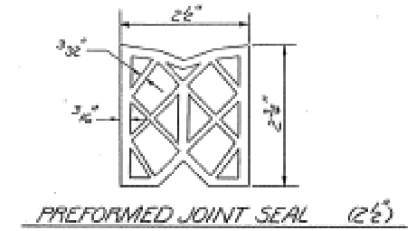
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS	SHEET NO.
698	101 BR-2	32	32	5
9 SHEETS				

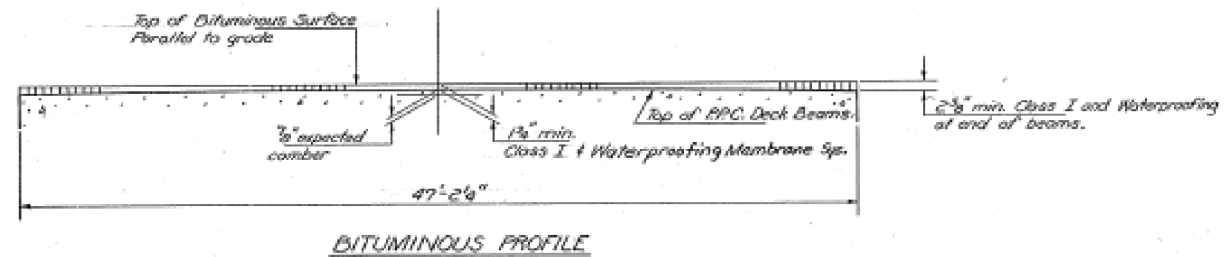
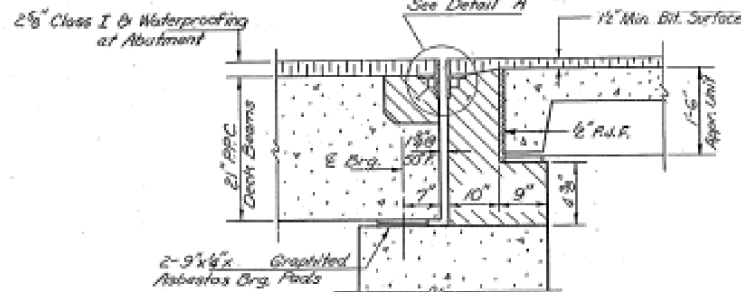
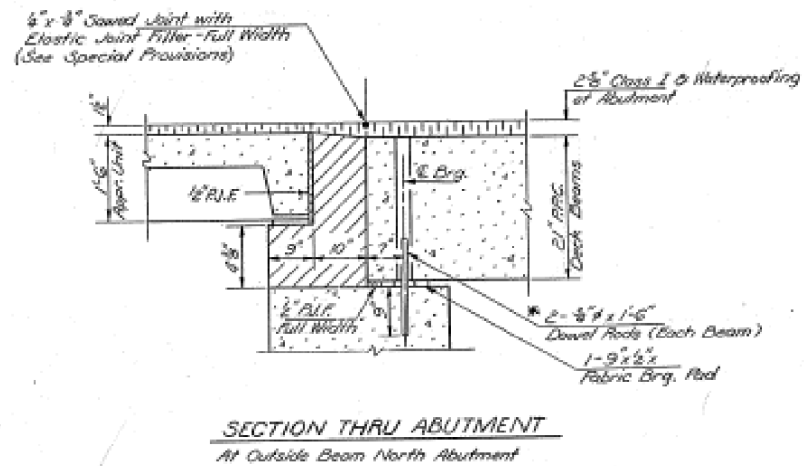
FOR INFORMATION ONLY



\* Dowel Rods to be grouted after beams are in place and allowed to cure prior to grouting the shear keys.



Note: Hatched areas to be poured after beams have been erected and joints grouted. Ends of beams shall be aligned at the expansion joint. Any linear variation in the beam lengths shall be placed at the fixed joint. See End of Beam Detail on sheet # 4 for reinforcement.



SUPERSTRUCTURE DETAILS  
F.A. RT. 698 SEC. 101 BR-2  
BUREAU COUNTY  
STATION 308 + 73.00

DESIGNED	James F. Rayburn
CHECKED	John J. Smith
DRAWN	Joe Sutherland
CHECKED	J.F.S.

EXAMINED	James F. Rayburn
PASSED	Carl E. Thompson
APPROVED	Director of Highway

FILE NAME	USER NAME	DESIGNED	REVISED
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\03666\Drawings\CAD\Drawings\03666A21-sht-Existing	GedjeRA	James F. Rayburn	James F. Rayburn
		CHECKED	REVISED
		John J. Smith	John J. Smith
		DATE	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS

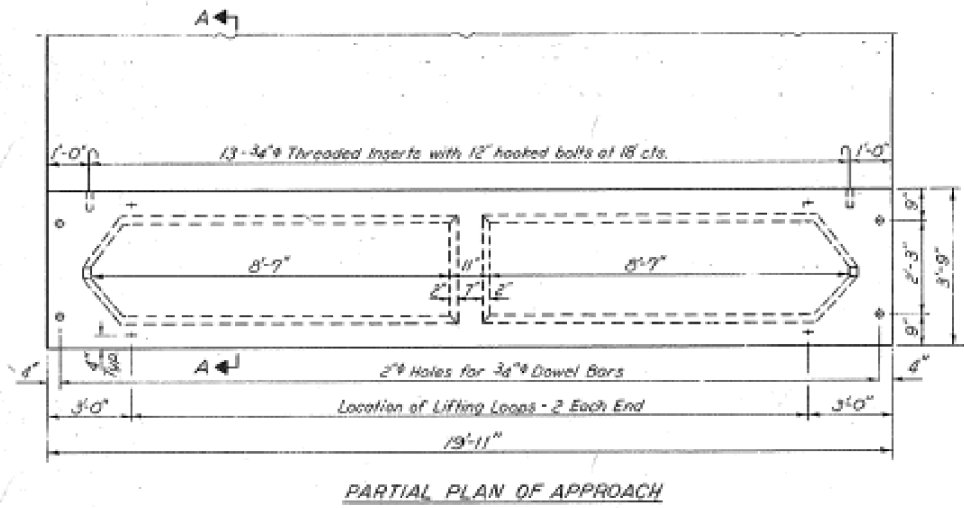
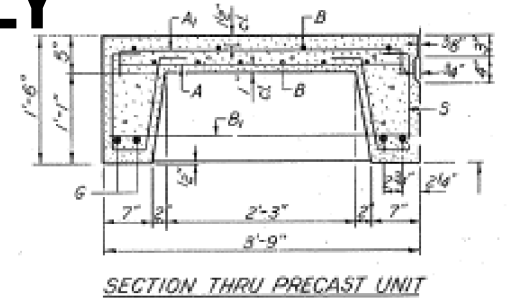
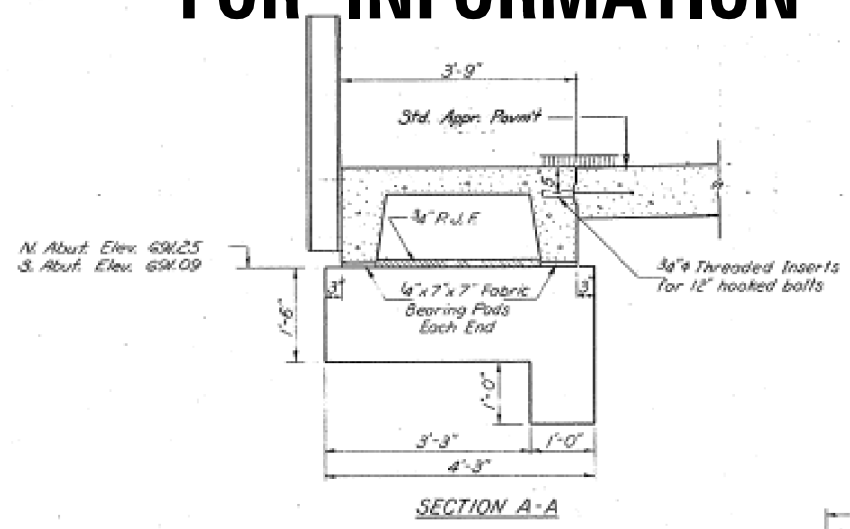
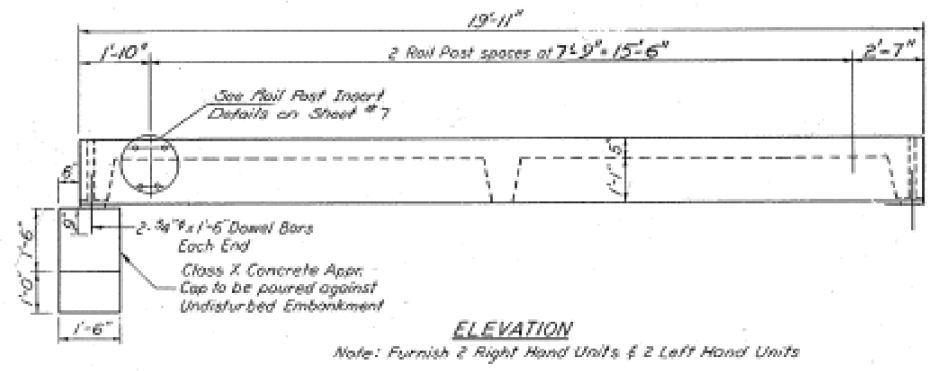
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	101 BR-2	BUREAU	62	47
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

**FOR INFORMATION ONLY**

ROUTE NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
1-6	118	ILLINOIS	36	33

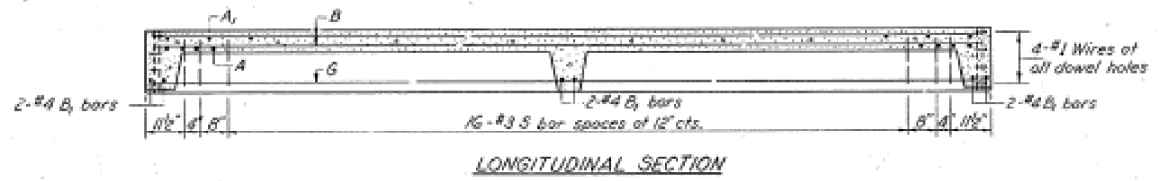
SHEET NO. 6  
9 SHEETS



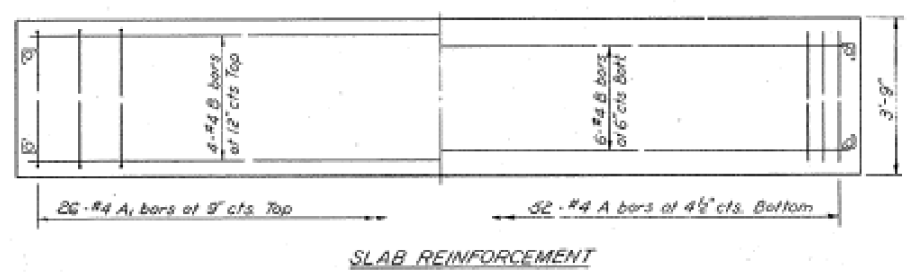
**BAR LIST - ONE UNIT**  
Reinforcement to be cast into slab

Bar	No	Size	Length	Shape
A	52	#4	3'-3"	—
A <sub>1</sub>	26	#4	4'-0"	—
B	10	#4	19'-6"	—
B <sub>1</sub>	6	#4	3'-6"	—
G	4	#10	19'-6"	—
S	42	#3	3'-4"	U

**BAR A<sub>1</sub>**  
**BAR S**

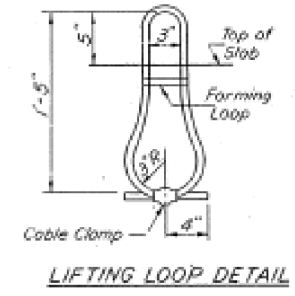


**NOTES**  
Unless otherwise approved by the Engineer, lifting loops shall be 1/2" 6x10 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, bearing posts, furnishing, drilling for, placing and grouting anchor dowels and 3/4" hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab." The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.



**FOUR UNITS BILL OF MATERIAL**

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	299
Class X Concrete	Cu. Yds.	1.6



**STRESSES**  
f<sub>c</sub> = 4,500 psi.  
f<sub>c</sub> = 1,800 psi.  
f<sub>s</sub> = 20,000 psi.  
n = 8  
**LOADING H.S. 20**

**APPROACH DETAILS**  
I.A. H2698 SEC. 101 BR-2  
BUREAU COUNTY  
STATION 305+7500

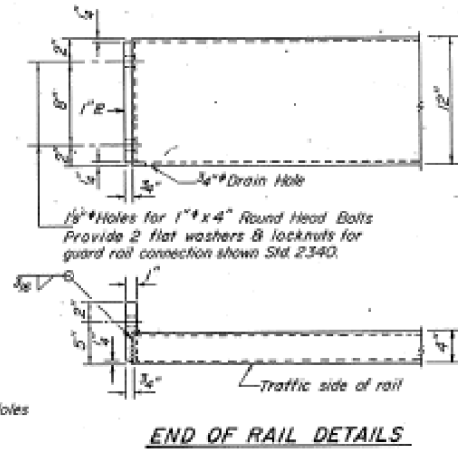
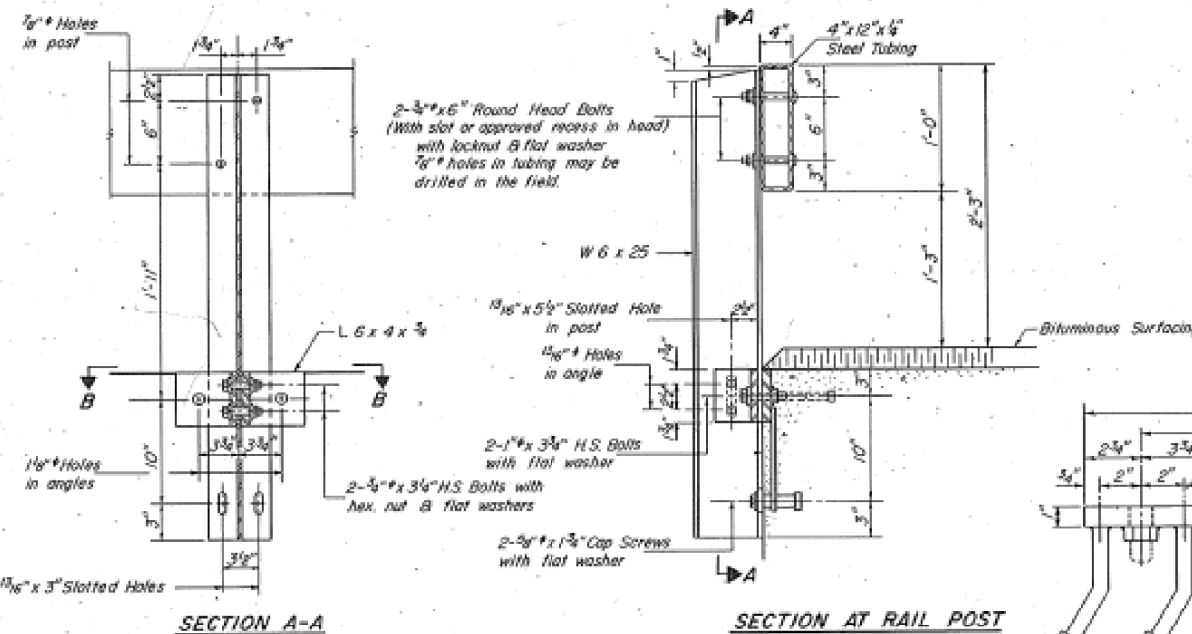
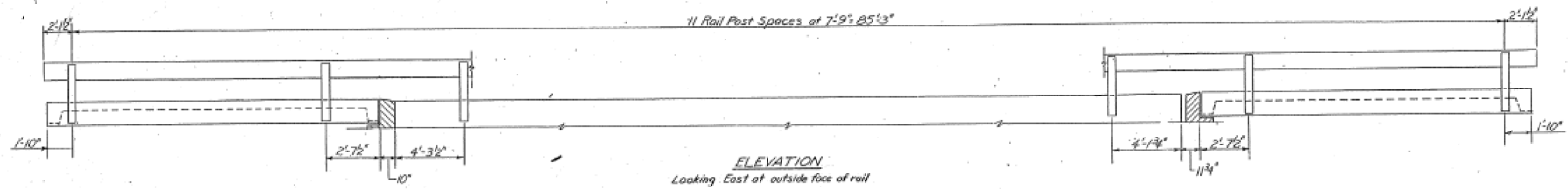
DESIGNED: *James J. Johnson*  
CHECKED: *Paul F. Smith*  
DRAWN: *Joe Sutherland*  
CHECKED: *J.F.*

EXAMINED: *James J. Johnson*  
PASSED: *Carl Thompson*  
APPROVED: *J.F.*

A.P-1 20' Precast Appr Unit (RT L) (15-15-71)

# FOR INFORMATION ONLY

DESIGN NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R-23A	101 BR-2IBR	BUREAU	62	49
DATE	SCALE	PROJECT	CONTRACT NO.	
8-30-80	1/2" = 1'-0"	ILLINOIS FED. AID PROJECT	66A21	



**NOTES**

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except posts and angles shall conform to AASHTO M-223, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-184.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

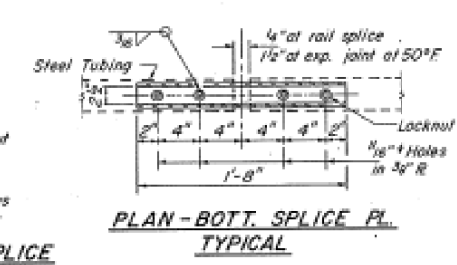
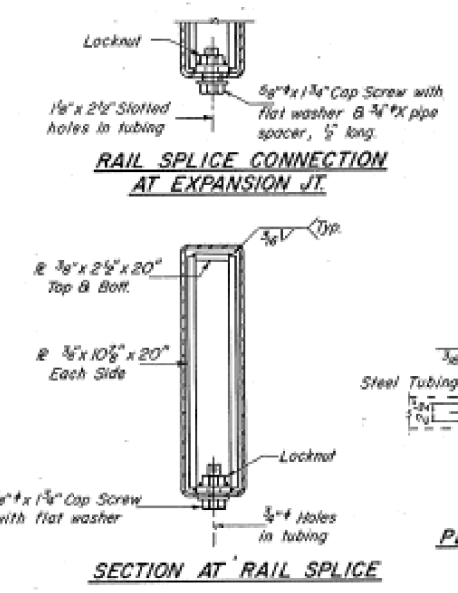
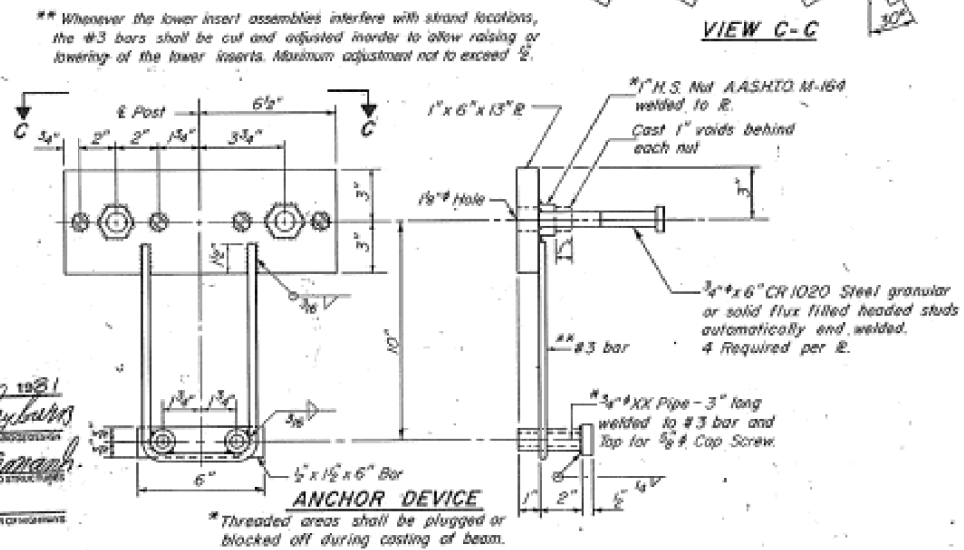
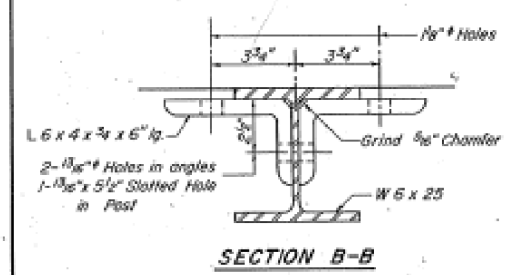
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-311 and ASTM A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE S-1.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2" fabric bearing pad between the post and concrete.

The 1/2" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 507.04(p)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/4 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.



**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type S-1	Lin. Ft.	179

**TYPE S-1**  
**STEEL RAILING**  
F.A. RT. 698 SEC. 101BR-2  
BUREAU COUNTY  
STATION 308+78.00

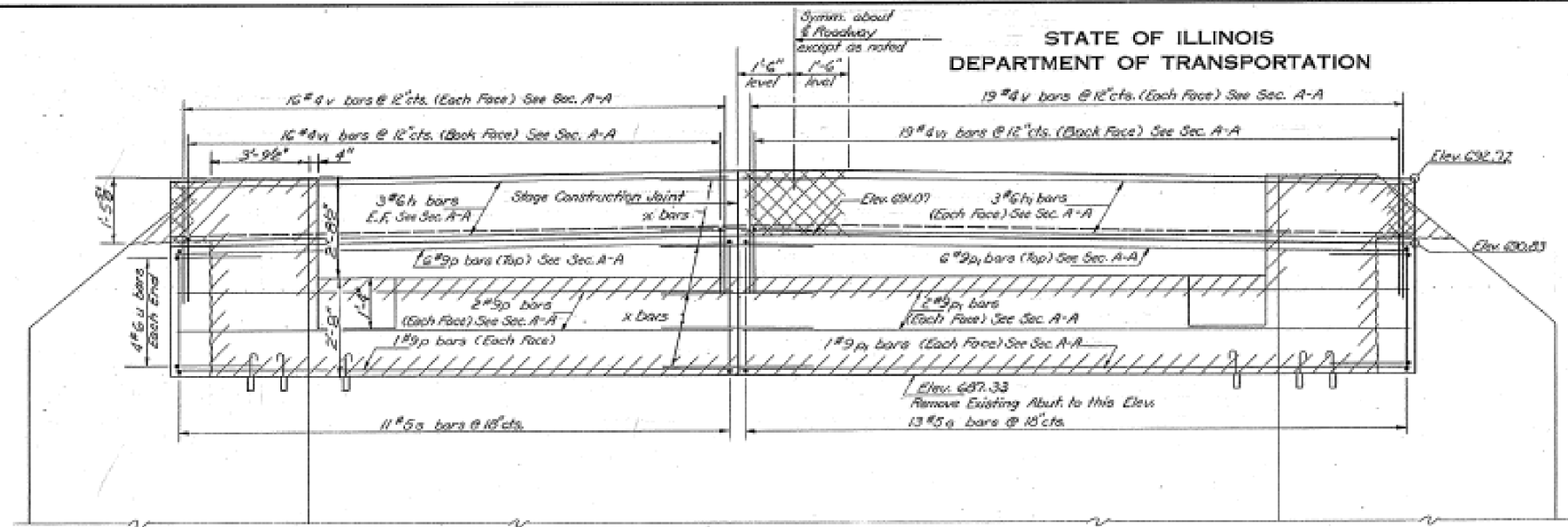
DESIGNED: *Steve K. Owen*  
CHECKED: *Stephen J. ...*  
DRAWN: *SKD*  
CHECKED: *PLG*

December 30, 1981  
EXAMINED: *James J. ...*  
PASSED: *Carl E. ...*  
APPROVED: \_\_\_\_\_

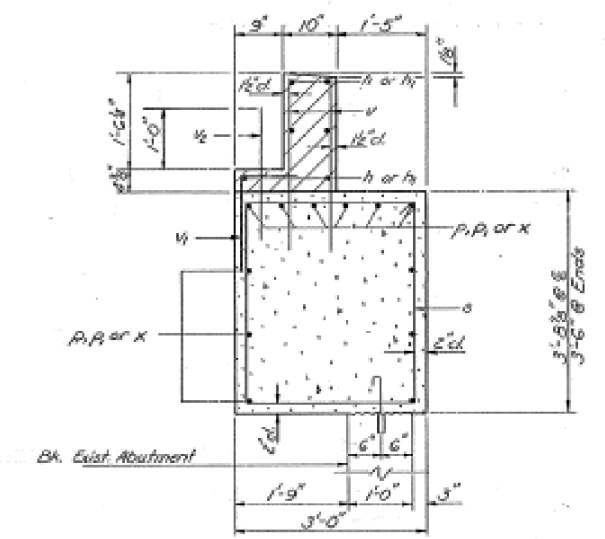
R-23A 8-30-80 (10'-9" Maximum Post Spacing)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8 9 SHEETS
698	101 BR-2	BUREAU	62	50	
FED. AID PROJ. NO. Y					
ILLINOIS FED. AID PROJECT					

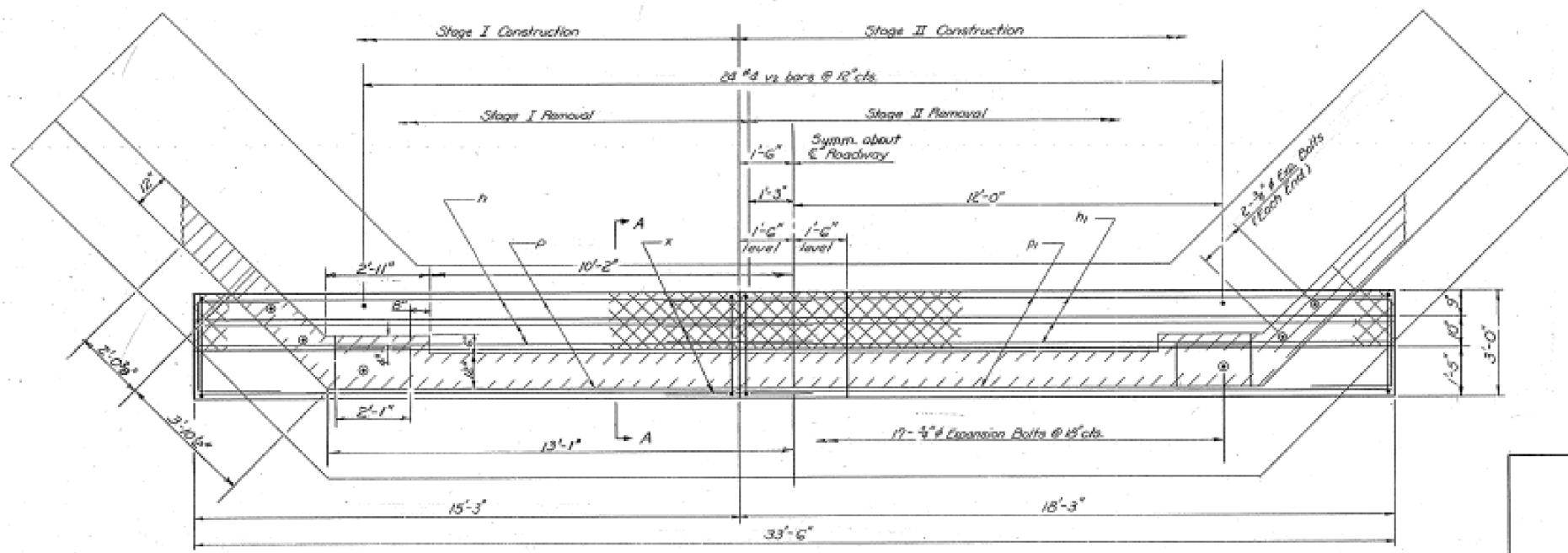
**FOR INFORMATION ONLY**



ELEVATION



SEC. A-A



PLAN

Notes: Cross Hatched area shall be poured after beams are in place.  
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.  
Expansion bolts shall be anchored in sound concrete.  
All edges shall have standard 3/8 chamfers except as noted.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h	6	#6	15'-6"	—
h <sub>2</sub>	6	#6	18'-0"	—
p	12	#9	15'-0"	—
p <sub>2</sub>	12	#9	18'-0"	—
s	24	#5	12'-7"	□
u	8	#6	7'-7"	□
v	70	#4	3'-0"	—
w	35	#4	2'-9"	—
x	24	#4	2'-0"	—
Class X Concrete				Cu. Yd. 15.8
Reinforcement Bars				Pound 1370
Expansion Bolts 3/8"				Each 21
Concrete Removal				Cu. Yd. 4.5

NORTH ABUTMENT  
FA. RT. 698-SEC. 101 BR-2  
BUREAU COUNTY  
STATION 308+78.00

DESIGNED *James R. Ransaw*  
CHECKED *James J. Ransaw*  
DRAWN *Joe Sutherland*  
CHECKED *J.S.R.*

EXAMINED *James J. Ransaw*  
PASSED *James J. Ransaw*  
APPROVED *James J. Ransaw*  
DIRECTOR OF HIGHWAYS

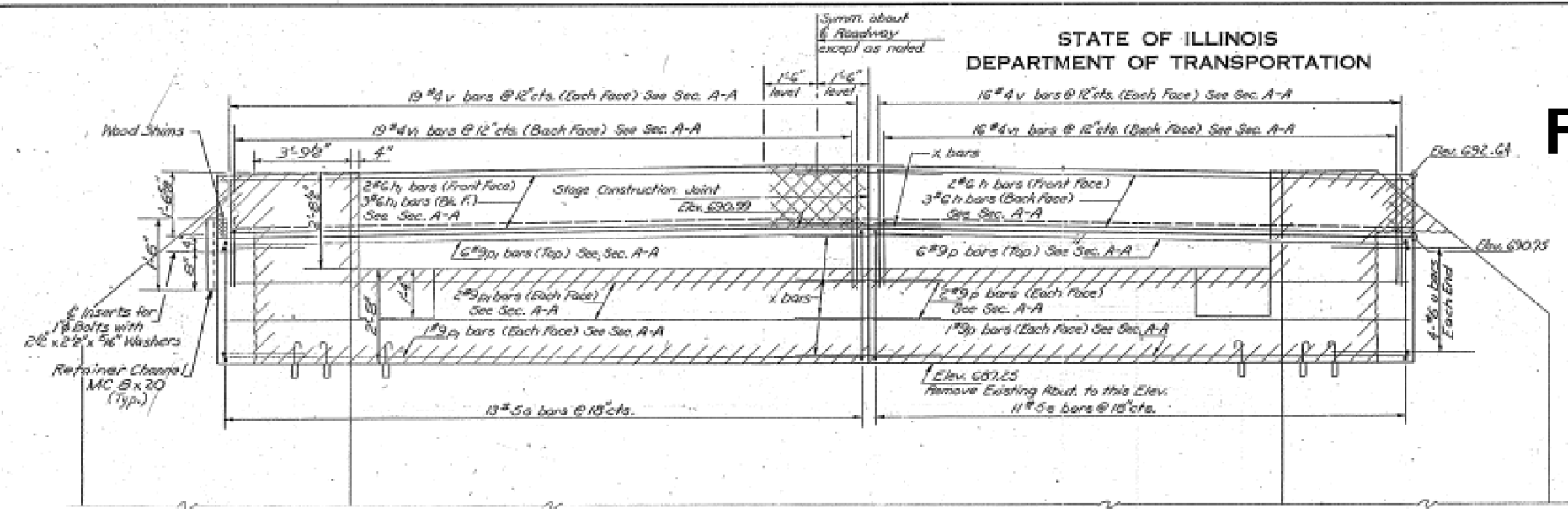
Dec 9 1976

These bars shall meet the requirements of AASHTO M31 or M53 Grade 40, except that the elongation shall not be less than 20%.

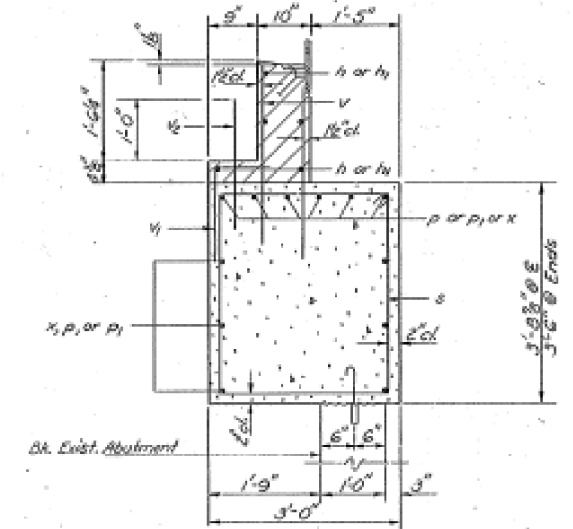
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEETS
698	101 BR-2	BUREAU	62	51	9

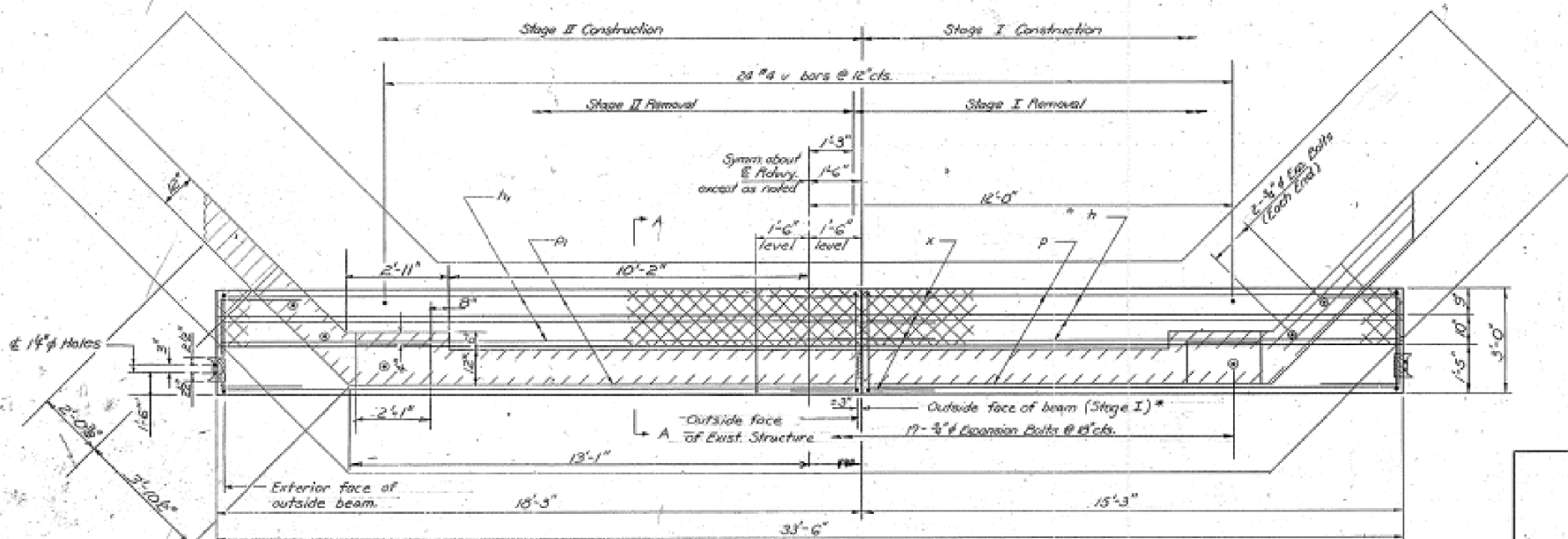
**FOR INFORMATION ONLY**



ELEVATION



SEC. A-A



PLAN

Notes:  
After Expansion End Block is poured and cured the retainer channels shall be removed. Cost of Channel and accessories shall be incidental to Beams.  
Cross Hatched area shall be poured after beams are in place.  
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.  
Expansion bolts shall be anchored in sound concrete.  
All edges shall have standard chamfers except as noted.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	5	#6	15'-6"	—
h <sub>1</sub>	5	#6	18'-0"	—
p	12	#9	15'-0"	—
p <sub>1</sub>	12	#9	18'-0"	—
s	24	#5	12'-7"	□
u	8	#6	7'-9"	□
v	70	#4	3'-0"	—
v <sub>1</sub>	35	#4	2'-9"	┌
v <sub>2</sub>	24	#4	2'-0"	—
x	17	#5	4'-0"	┌

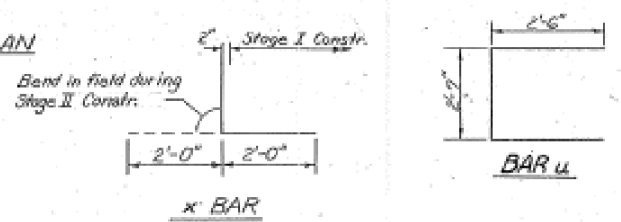
  

Class X Concrete	Cu. Yd.	15.8
Reinforcement Bars	Pound	2310
Expansion Bolts 3/4"	Each	11
Concrete Removal	Cu. Yd.	4.5

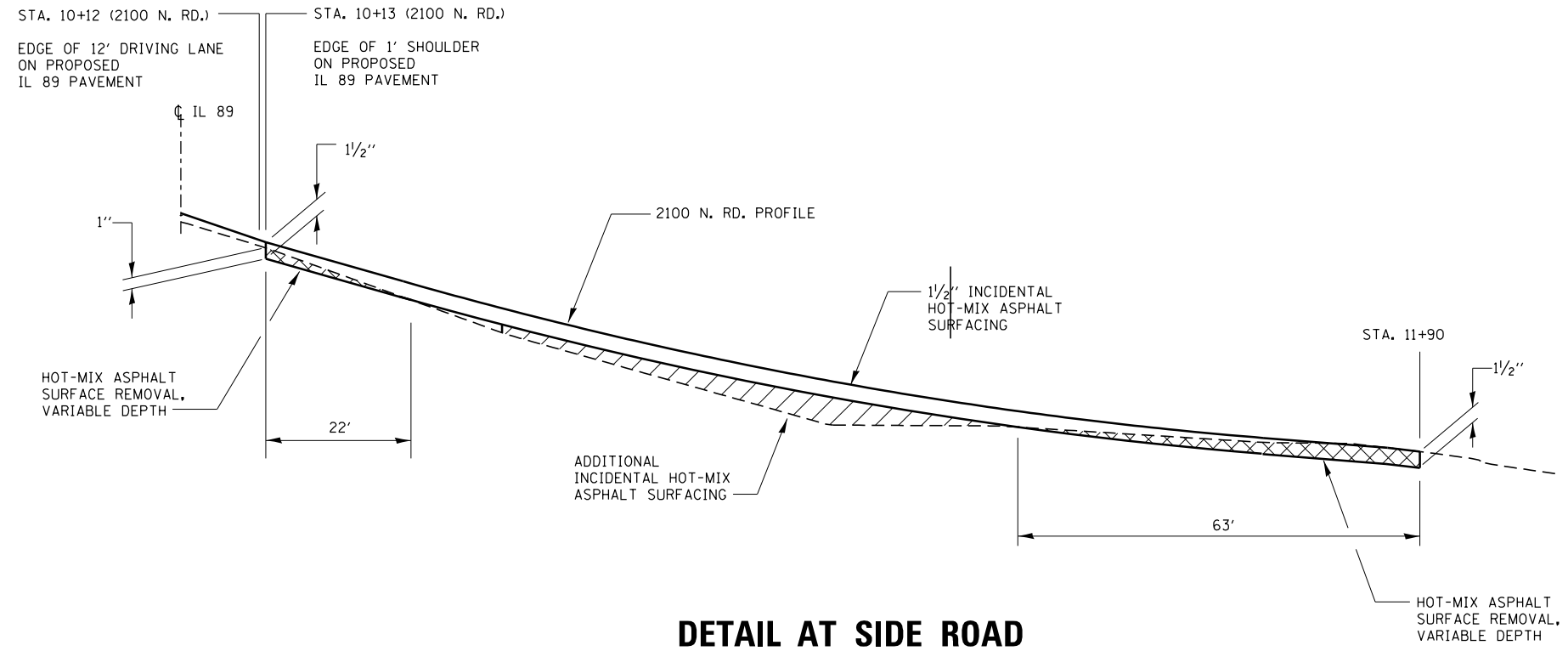
SOUTH ABUTMENT  
FA. RT. 698-SEC. 101 BR-2  
BUREAU COUNTY  
STATION 308+78.00

DESIGNED	<i>[Signature]</i>	EXAMINED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>	PASSED	<i>[Signature]</i>
DRAWN	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>		

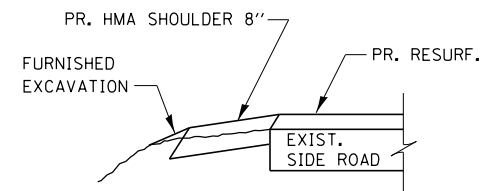
DATE: Dec 3 1976



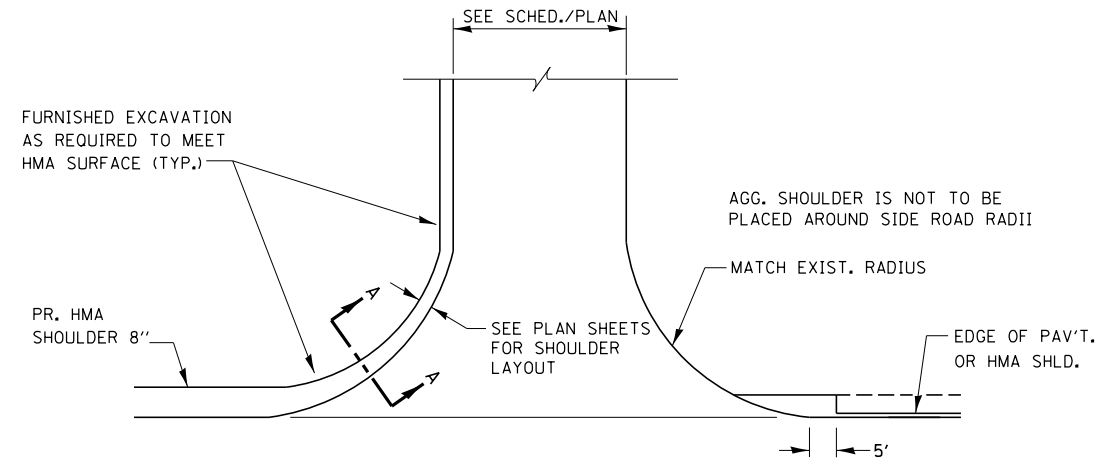
These bars shall meet the requirements of AASHTO M31 or M53 Grade 40, except that the elongation shall not be less than 20%.



**DETAIL AT SIDE ROAD**



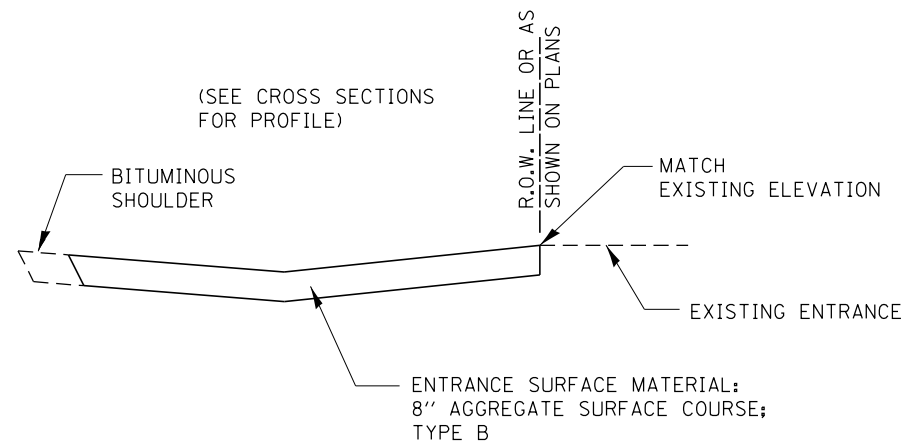
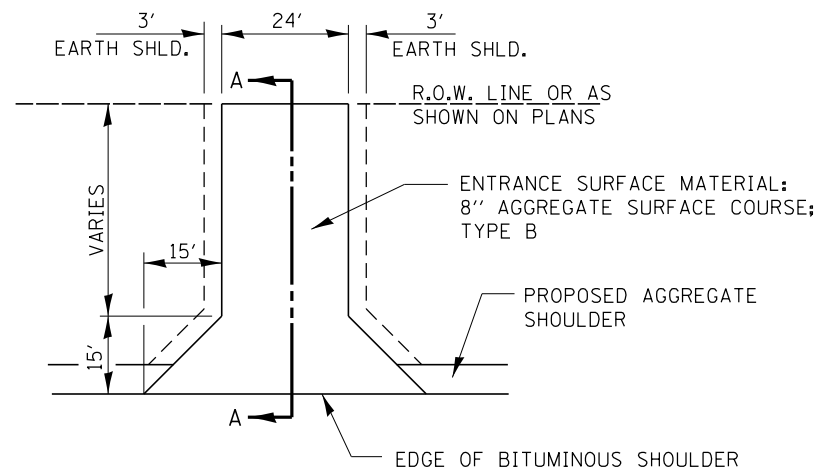
**SECTION A-A**



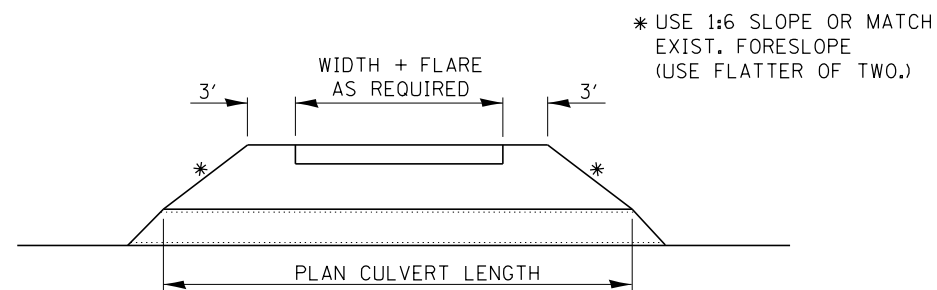
**PLAN AT SIDE ROAD**

PROP. HMA SHLD. SHALL NOT BE CONSTRUCTED THRU HMA SIDEROADS.

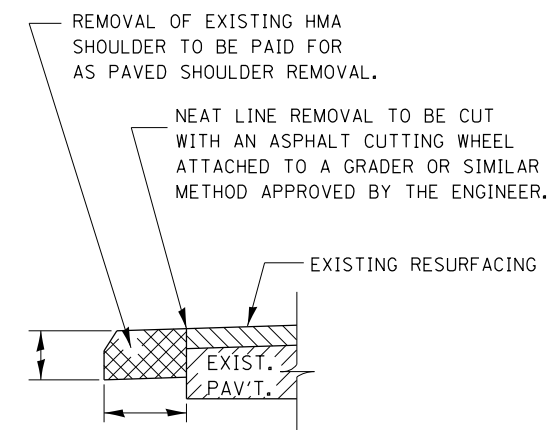
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 66A21							
PLOT DATE = 7/26/2017		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		



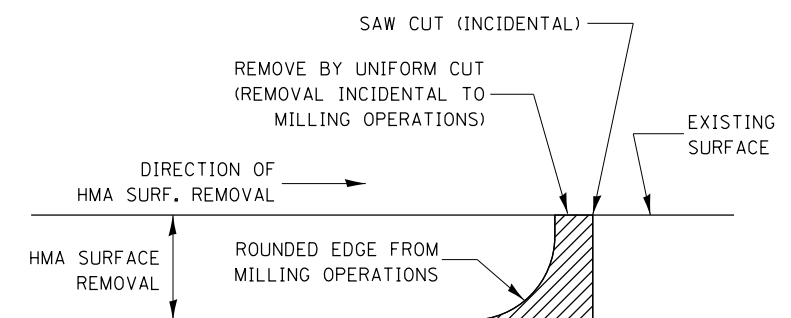
**SECTION A-A**



**FIELD ENTRANCE DETAIL**



**REMOVAL OF EXISTING HMA SHOULDER**

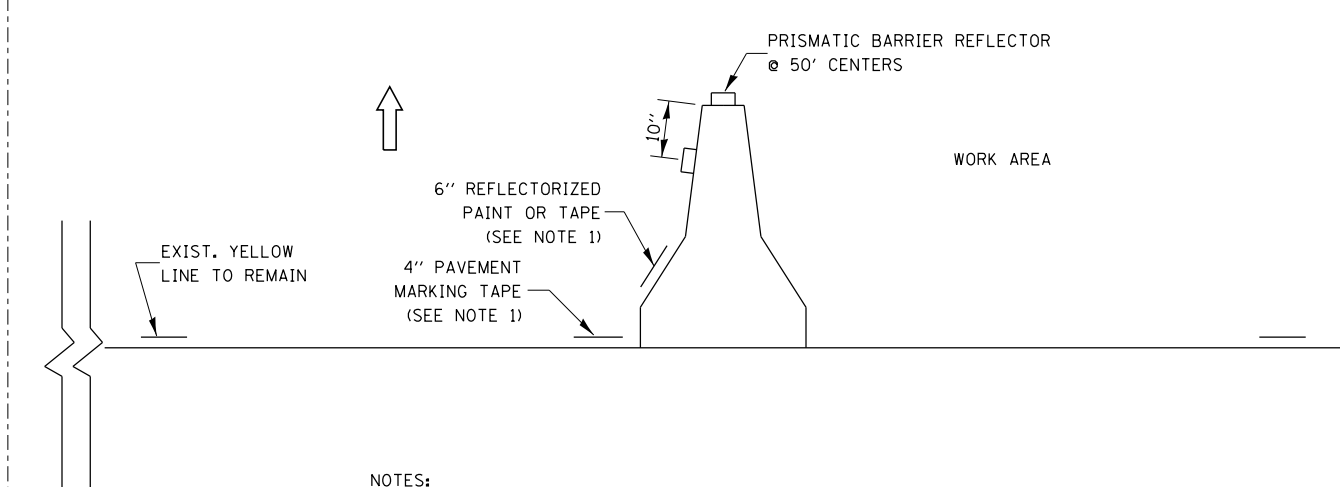


NOTE:  
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

**HMA DETAIL AT BUTT JOINTS**

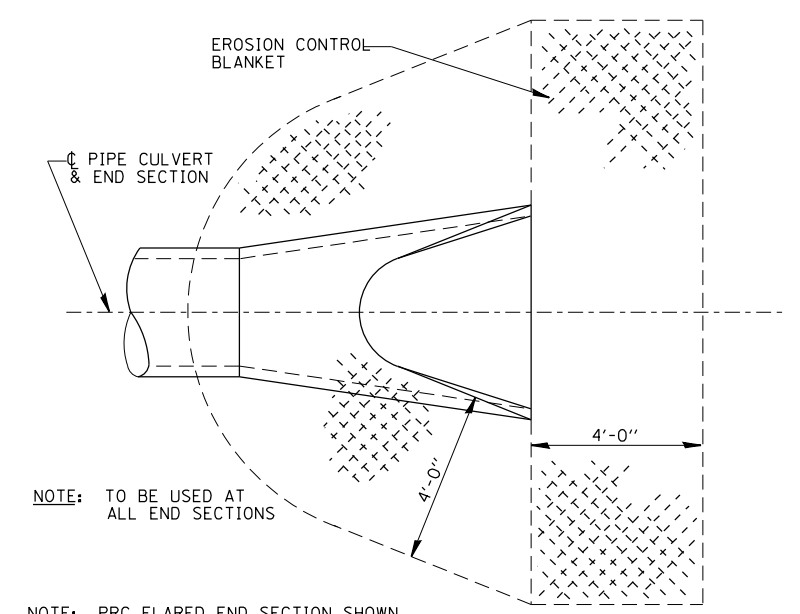
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PLOT SCALE = 100.0000' / 1" =		DATE -	REVISED -		CONTRACT NO. 66A21			ILLINOIS FED. AID PROJECT			
PLOT DATE = 7/26/2017					SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.





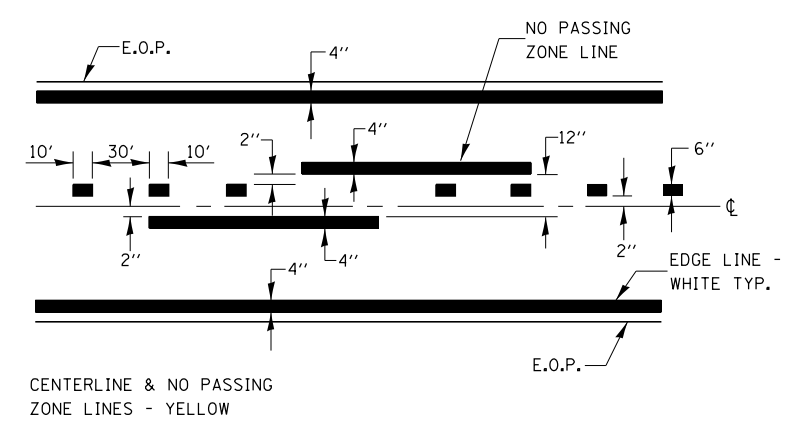
- NOTES:
1. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
  2. THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.
  3. THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

**TRAFFIC CONTROL DETAIL**  
**FOR TEMPORARY CONCRETE BARRIER**



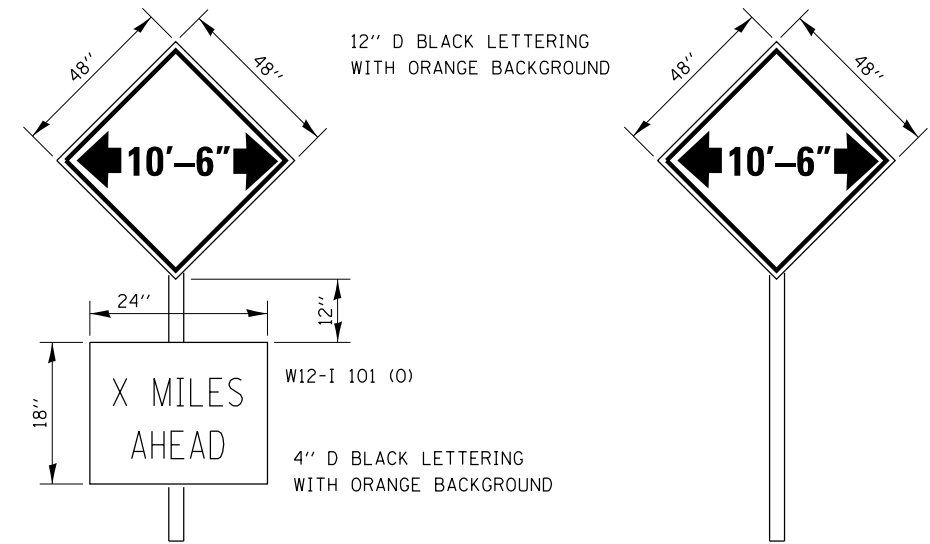
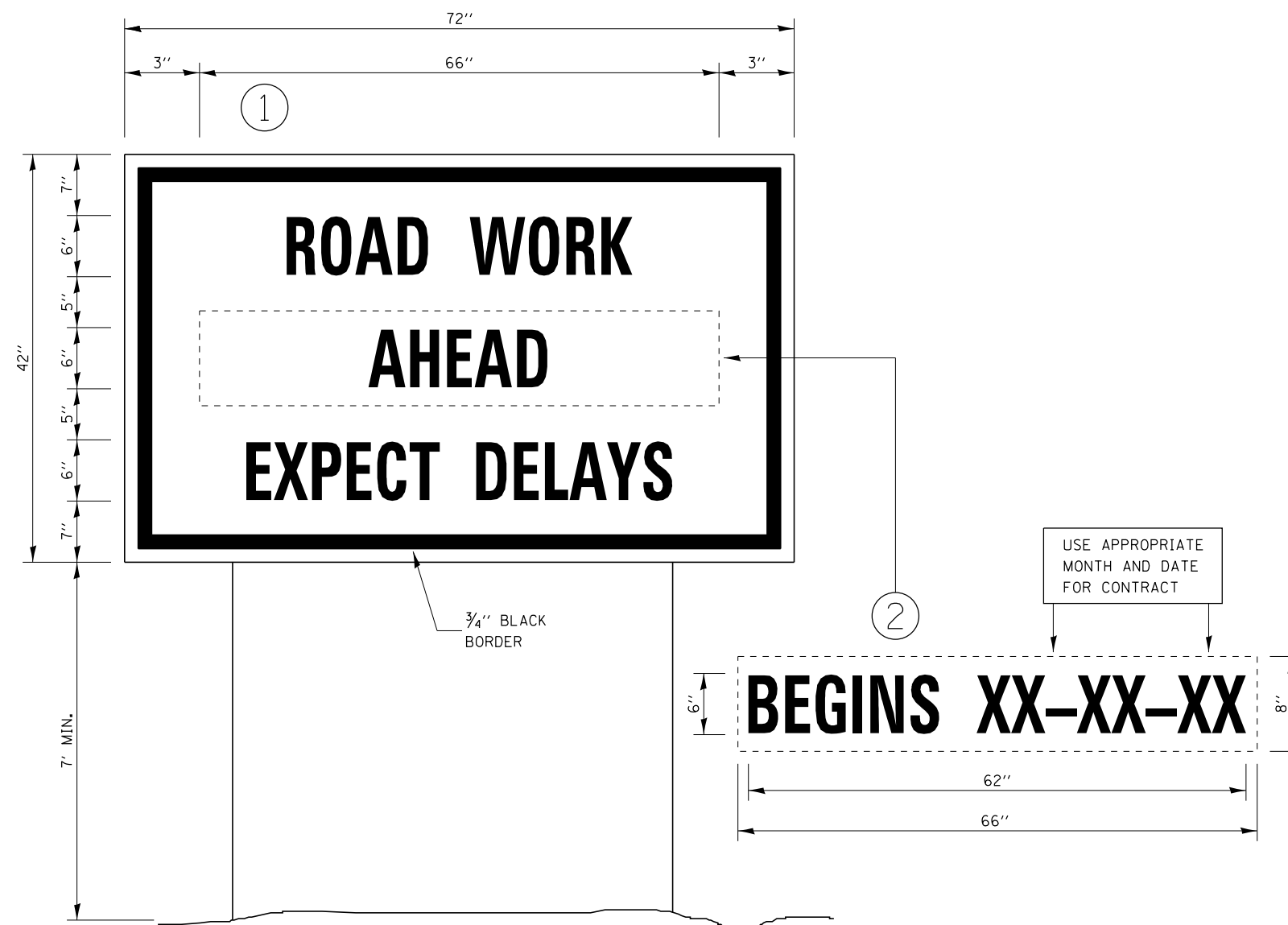
- NOTE: TO BE USED AT ALL END SECTIONS
- NOTE: PRC FLARED END SECTION SHOWN. TREATMENT SAME FOR OTHER END SECTIONS.

**DETAIL OF EROSION CONTROL BLANKET**  
**LINING AROUND END SECTION**



**PAVEMENT MARKING**

FILE NAME =	USER NAME = GedyRA	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100.0000' / 1in.	DATE = 7/26/2017	DATE -	REVISED -			CONTRACT NO. 66A21				
						ILLINOIS FED. AID PROJECT				



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

ADDITIONAL WIDTH RESTRICTION SIGNS WITH THE SUPPLEMENTAL MILEAGE PLATE ARE TO BE INSTALLED ON IL 89 JUST NORTH OF I-80, AND SOUTHBOUND IN LAMOILLE AT THE JUNCTION OF IL 89 AND US 34.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

### WIDTH RESTRICTION SIGNING DETAILS

### TEMPORARY INFORMATION SIGNING

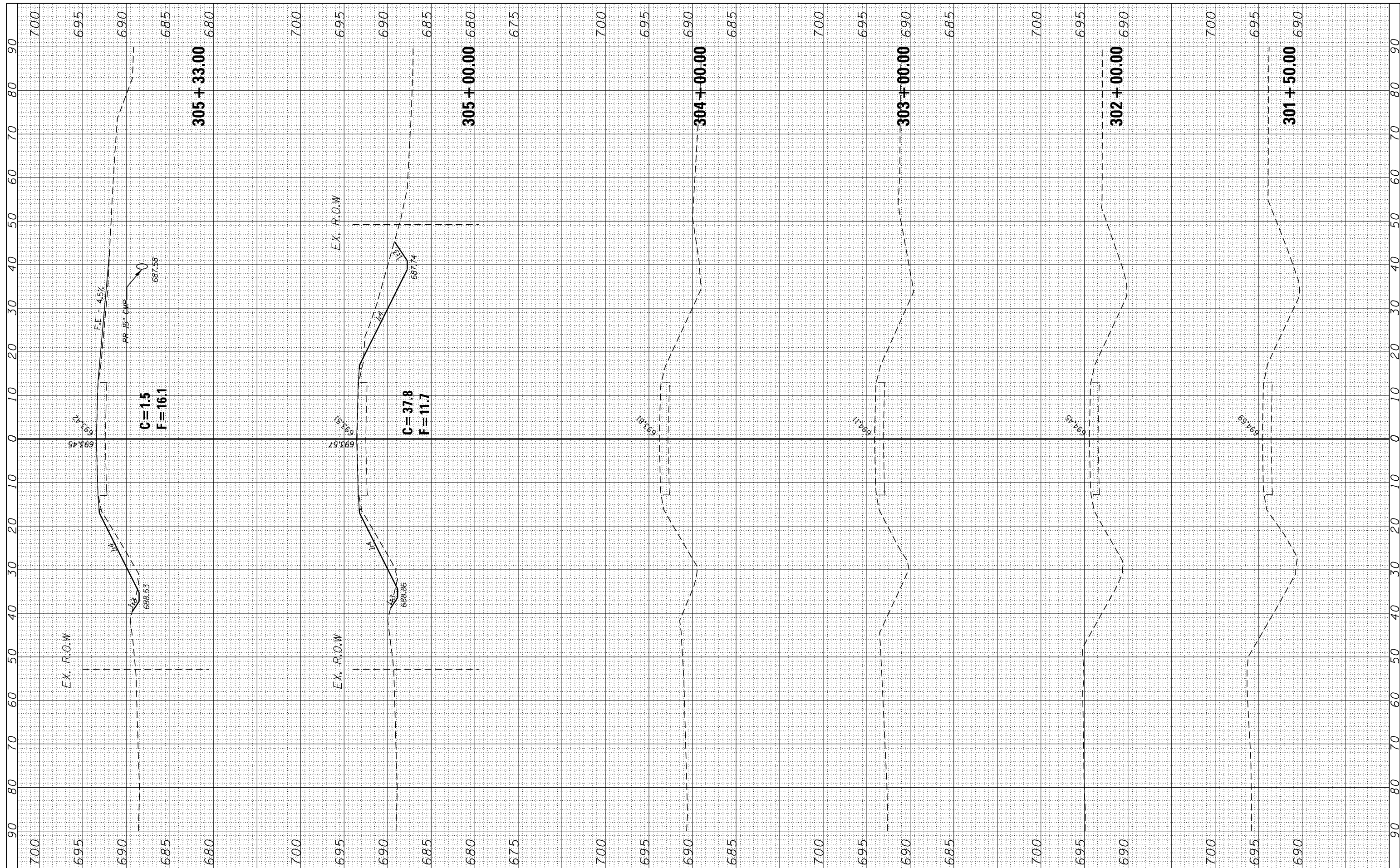
#### NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

FILE NAME =	USER NAME = GedyeRA	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 7/26/2017	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE:						SHEET	OF	SHEETS	STA.	TO STA.

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

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



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USER NAME = GedyRA  
 DESIGNED -  
 CHECKED -  
 DATE -

DESIGNED -  
 REVISIONS -  
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 DATE -

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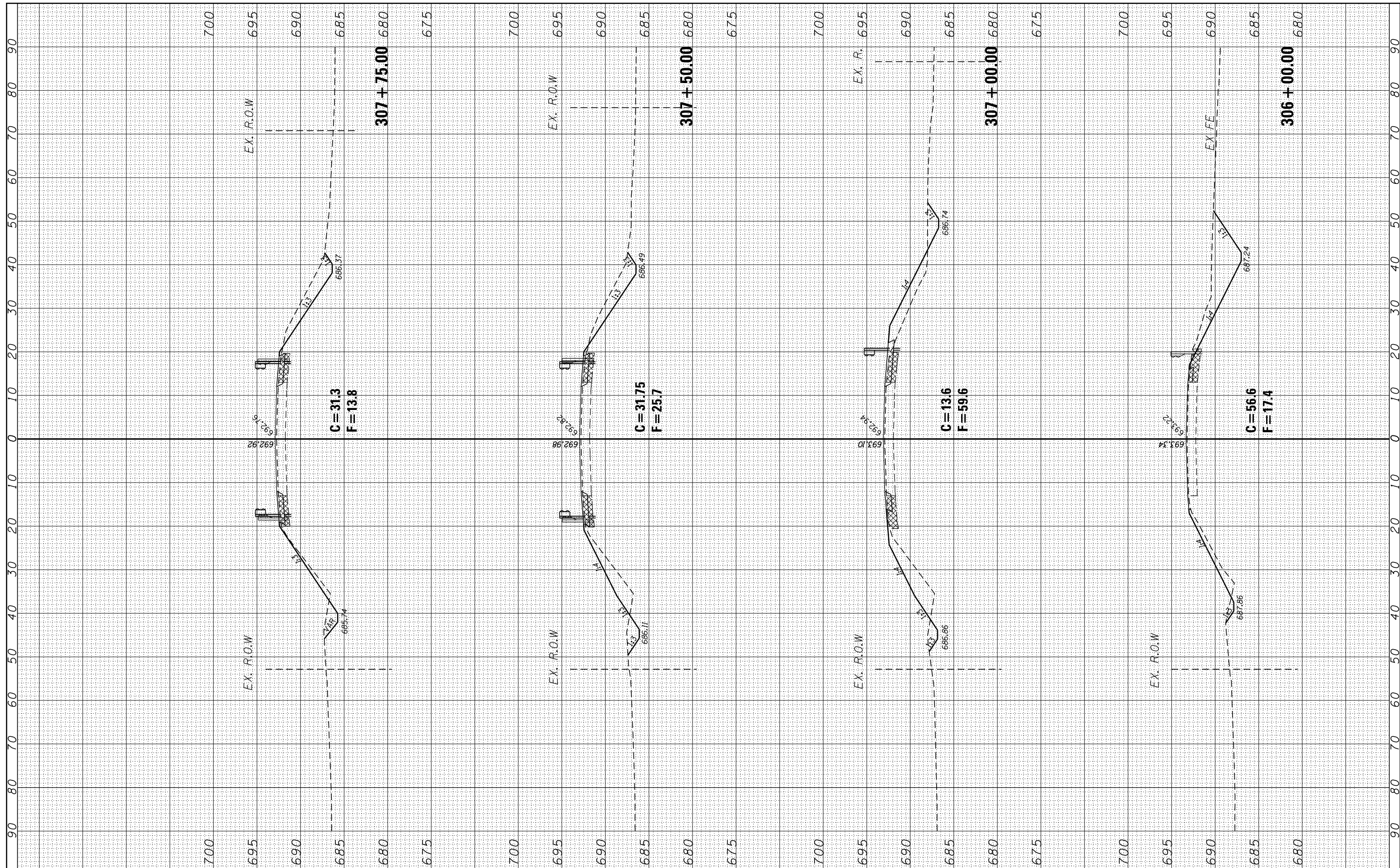
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**IL 89 SN006-0106**  
 SCALE: SHEET NO. OF SHEETS STA. 301+50.00 TO STA. 305+33.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	( 101 BR-2) BR		62	56
CONTRACT NO. 66A21				

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



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 DESIGNED -  
 CHECKED -  
 DATE -  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 7/27/2017

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

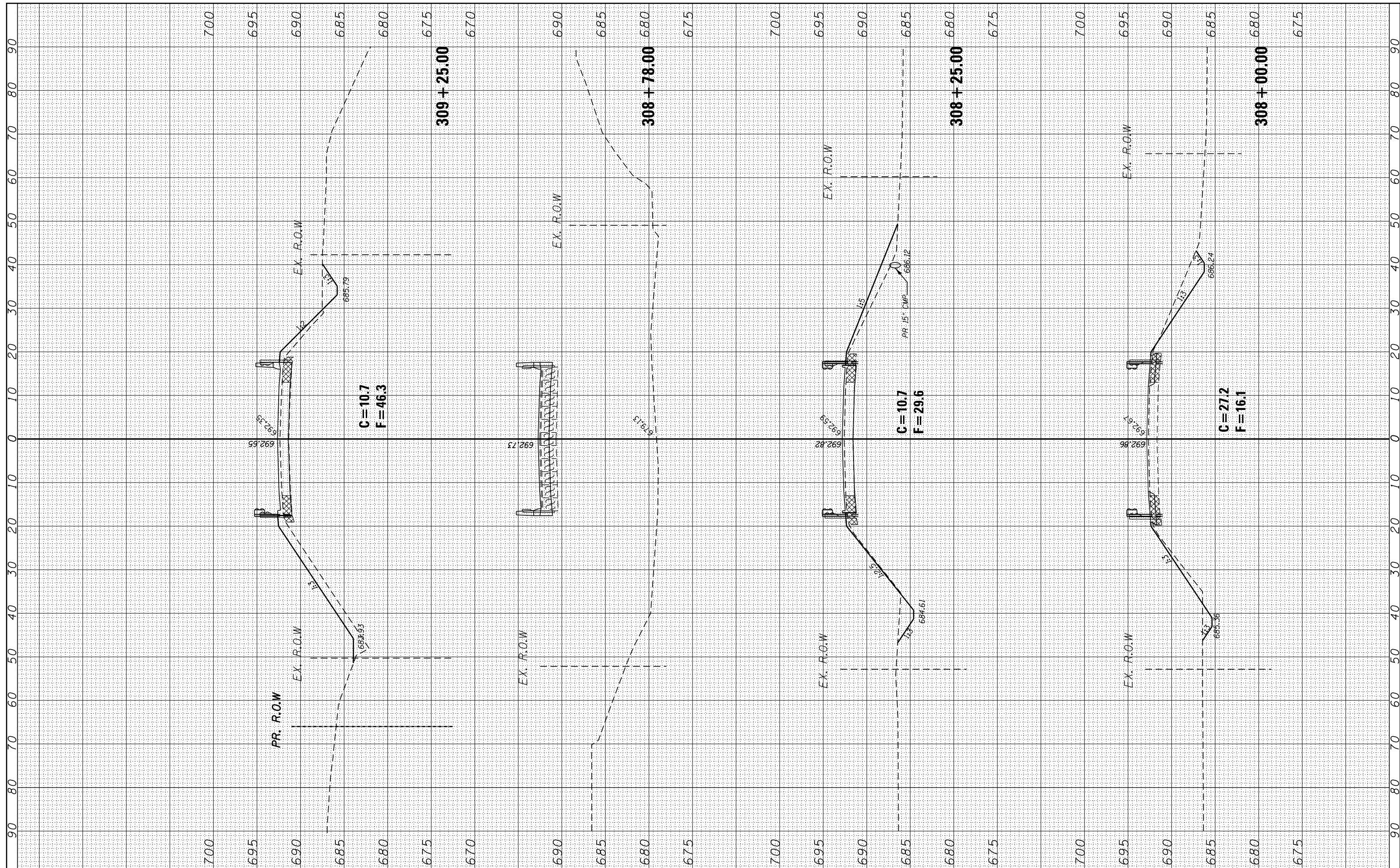
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**IL 89 SN006-0106**  
 SCALE: SHEET NO. OF SHEETS STA. 306+00.00 TO STA. 307+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	( 101 BR-2) BR	BUREAU	62	57
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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USER NAME = GedyRA  
 DESIGNED -  
 CHECKED -  
 DATE -  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 7/27/2017

REVISED -  
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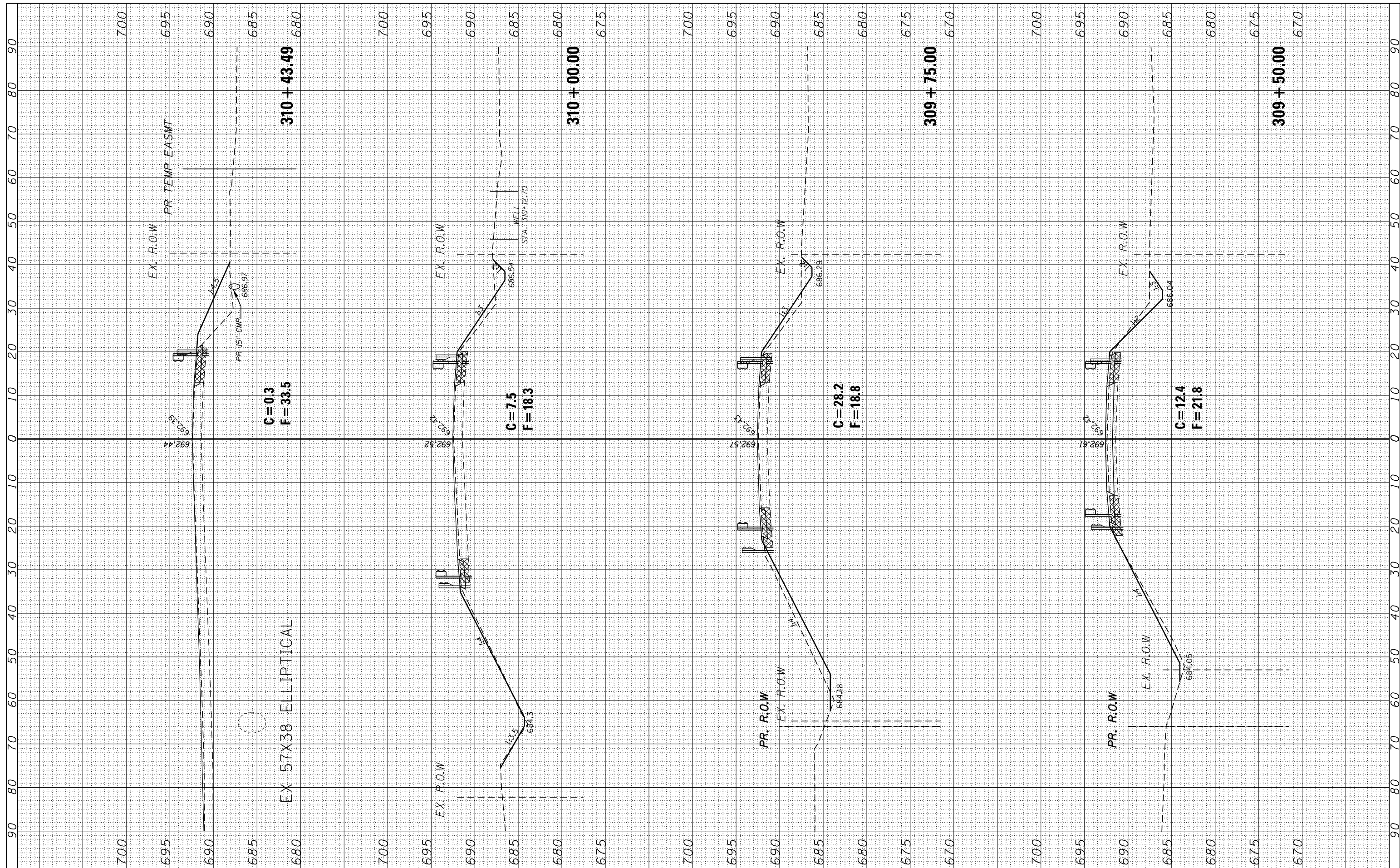
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**IL 89 SN006-0106**  
 SCALE: SHEET NO. OF SHEETS STA. 308+00.00 TO STA. 309+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	( 101 BR-2) BR		62	58
CONTRACT NO. 66A21				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



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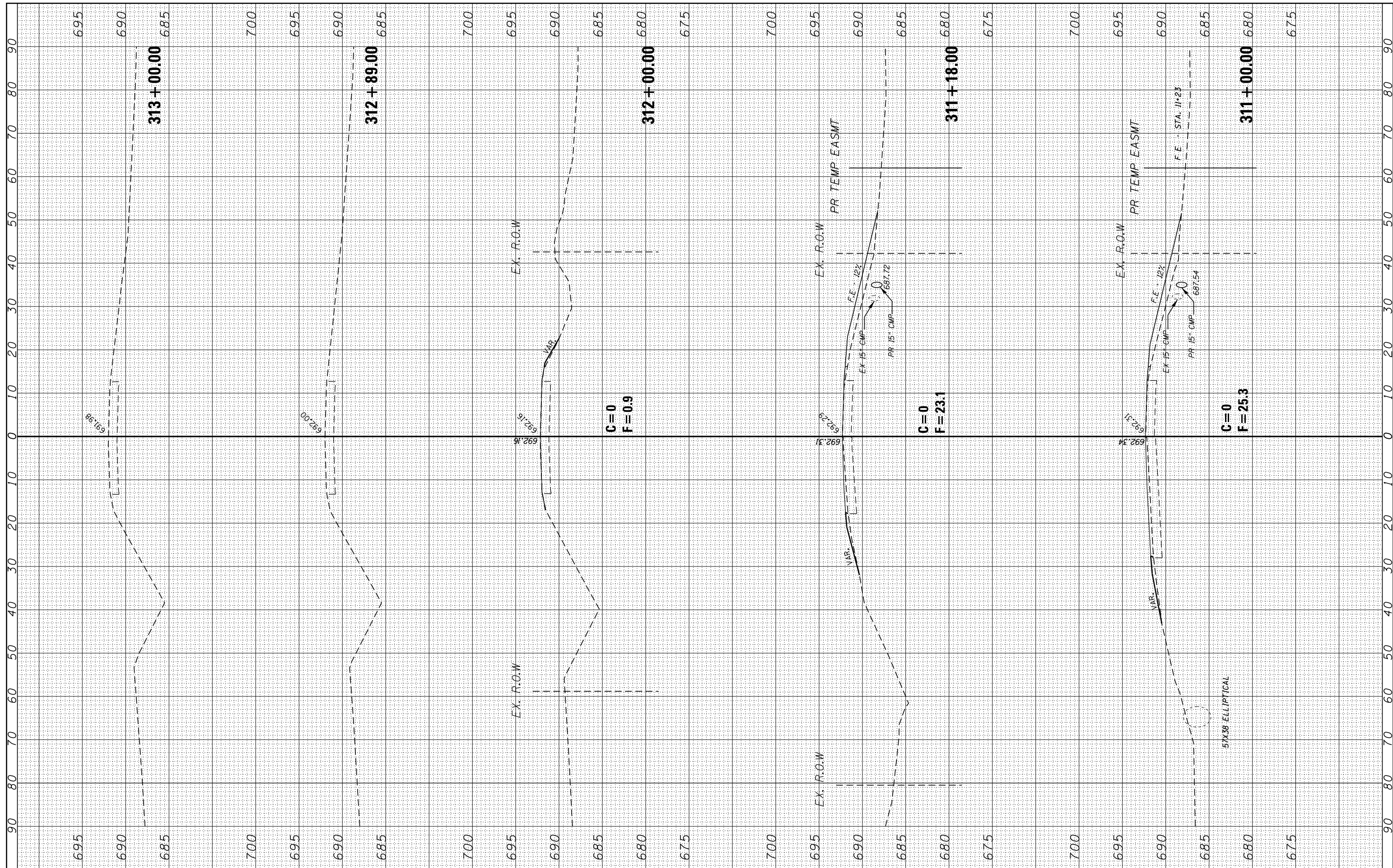
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
 IL 89 SN006-0106  
 SCALE: SHEET NO. OF SHEETS STA. 310+43.49 TO STA. 309+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	( 101 BR-2) BR	BUREAU	62	59
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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 DATE -  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 7/27/2017

DESIGNED -  
 CHECKED -  
 DATE -

REVISED -  
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 IL 89 SN006-0106  
 SCALE: SHEET NO. OF SHEETS STA. 311+00.00 TO STA. 313+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	( 101 BR-2) BR		62	60
CONTRACT NO. 66A21				
ILLINOIS FED. AID PROJECT				





