

03-08-2019 LETTING ITEM 077

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEETS 4-11

TRAFFIC DATA

SN 077-0026

FAS 938 (CH 7)

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR

ADT: 1,860 (2019)

PV: 95.4%

TRUCKS: 4.6%

DESIGN SPEED: 55 MPH

POSTED SPEED: 55 MPH

I-57 (FAI 57)

FUNCTIONAL CLASSIFICATION: INTERSTATE

ADT (TWO WAY): 13,070 (2019)

PV: 54%

TRUCKS: 4.6%

DESIGN SPEED: 70 MPH

POSTED SPEED: 70 MPH

TOWNSHIP

ULLIN PRECINCT

DESIGN DESIGNATION : 160(39) MAJOR COLLECTOR 4.59 (PCC-20)

**COORDINATE SYSTEM : NAD 1983 STATE PLANE ILLINOIS
EAST FIPS 1201 FEET (HORIZONTAL)
NAVD88 (VERTICAL)**

POSTED SPEED : 55 MPH

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

**PROJECT ENGINEER: DAVID PICHE
PROJECT DESIGNER: ESCA CONSULTANTS, INC.**

CONTRACT NO. 78454



EXPIRES 11-30-18

SIGNATURE

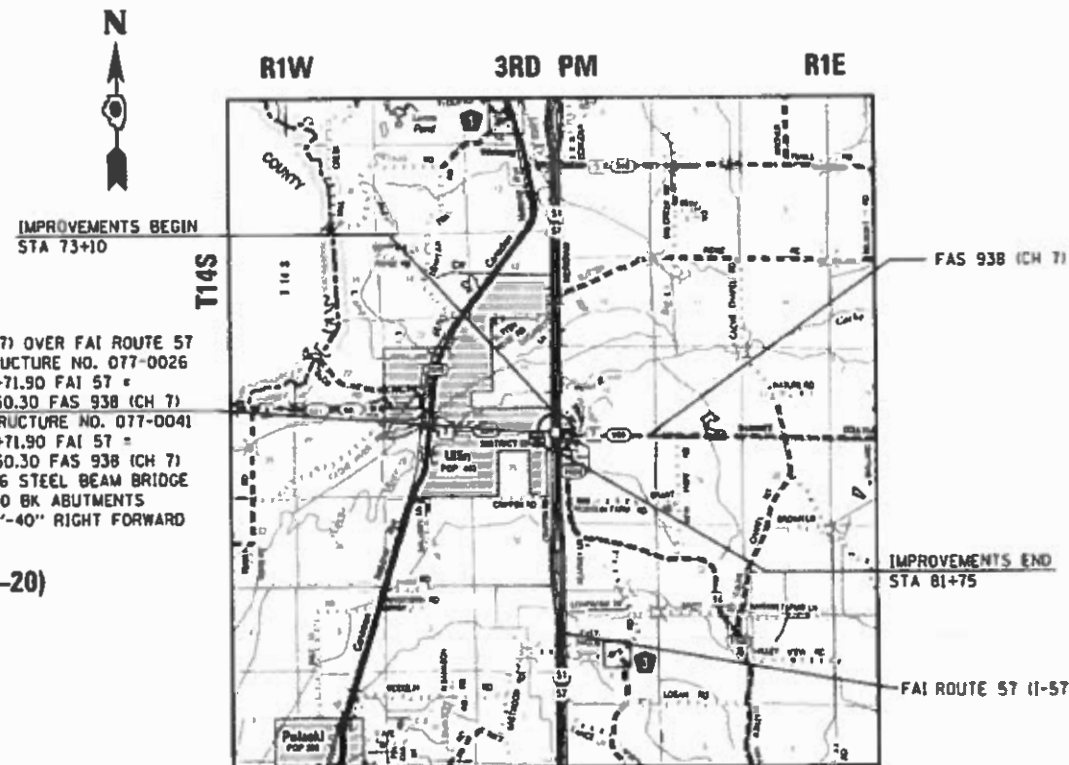
**11-30-18
DATE**

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

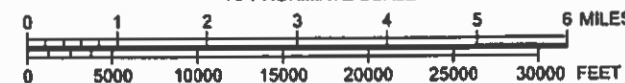
PROPOSED HIGHWAY PLANS

**FAI ROUTE 57 (I-57)
SECTION (77-1-3)HB-2
PROJECT NHPP-X4EI(497)
BRIDGE REPLACEMENT
FAS 938 (CH 7) OVER FAI ROUTE 57
PULASKI COUNTY**

D-89-014-15



LOCATION MAP APPROXIMATE SCALE



**GROSS LENGTH = 865.00 FT. = 0.164 MILES
NET LENGTH = 865.00 FT. = 0.164 MILES**



ESCA JOB NO. 1259.09

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	1
ILLINOIS CONTRACT NO. 78454				

D-89-014-15



LOCATION OF SECTION INDICATED THUS: - - - - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUBMITTED Dec 10 2018
Jeffrey A. Keiser
REGION FIVE ENGINEER

Feb 1 2019
Eric A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1 2019
Paul P. Chif
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1.	COVER SHEET
2.	INDEX OF SHEETS AND HIGHWAY STANDARDS
3.	GENERAL NOTES AND COMMITMENTS
4-11	SUMMARY OF QUANTITIES
12-14	FAS 938 (CH 7) TYPICAL SECTIONS
15-16	I-57 TYPICAL SECTION
17-18	SCHEDULES OF QUANTITIES
19-21	ALIGNMENT, TIES, AND BENCHMARKS
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27-34	FAS 938 (CH 7) STAGE CONSTRUCTION DETAILS
35	I-57 SHOULDER CLOSURE
36-37	I-57 TEMPORARY CLOSURE
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39	REMOVAL PLAN
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53	STEEL RAILING (TEMPORARY)
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56	TOP OF APPROACH SLAB ELEVATIONS
57	SUPERSTRUCTURE
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59	DIAPHRAGM DETAILS
60-61	BRIDGE APPROACH SLAB DETAILS
62	STEEL FRAMING PLAN AND DETAILS
63	STEEL FRAMING DETAILS
64	BEARING DETAILS
65	WEST ABUTMENT
66	EAST ABUTMENT
67	PIER
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69	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
70-72	BORING LOGS
73-78	EXISTING BRIDGE PLANS
79-87	FAS 938 (CH 7) CROSS SECTIONS
88-92	FAI 57 (I-57) CROSS SECTIONS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420101-06	24' (7.2M) JOINTED PCC PAVEMENT
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-09	CLASS B PATCHES
515001-03	NAME PLATE FOR BRIDGES
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
610001-08	SHOULDER INLET WITH CURB
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
631051-03	TRAFFIC BARRIER TERMINAL, TYPE 11
635001-02	DELINEATORS
643001-02	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701206-05	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS $\geq$ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2S, PAVEMENT WIDENING, FOR SPEEDS $\geq$ 45 MPH
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS $\geq$ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS $\geq$ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

PREPARED BY: Charles Steen
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Nancy Lee
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Carrie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: Karl M. Kelly
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: KRL
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Daryl J. McFarland
DISTRICT CONSTRUCTION ENGINEER

[illegible]

USER NAME = k.j.h
ESCA PROJECT NO. 1259.89
PLOT SCALE = 0.1667' / in.
PLOT DATE = 12/18/2018 10:04:36 AM

DESIGNED -	JHM
DRAWN -	JHM
CHECKED -	JMS
DATE -	12/18

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	2
		CONTRACT NO. 78454		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

1. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
- | | |
|-----------------------|-------------------|
| ALL HOT-MIX ASPHALT | 2.016 TONS/CU YD |
| ALL AGGREGATE | 2.05 TONS/CU YD |
| EARTH | 110 LBS/CU FT |
| BITUMINOUS MATERIALS: | |
| ON PAVEMENT | 0.05 POUND/SQ FT |
| INTERMEDIATE LIFTS | 0.025 POUND/SQ FT |
| ON AGGREGATE SURFACE | 0.25 POUND/SQ FT |
2. IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.
3. THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION.
4. AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
5. EXISTING PIPE UNDERDRAIN OUTLETS IN THE FORESLOPES OR MEDIAN SLOPES SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO AN UNDERDRAIN OUTLET RESULTING FROM CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.
7. TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE WIDENING.
8. THE COST OF REMOVING THE CONCRETE GUTTER AT THE BASE OF THE EXISTING SLOPE WALL IS INCLUDED IN REMOVAL OF THE EXISTING STRUCTURE.

COMMITMENTS

1. THERE WERE NO COMMITMENTS MADE THAT AFFECT THE CONSTRUCTION OF THIS PROJECT AS OF 12/14/2018.

HMA MIXTURES REQUIREMENTS

MIXTURE USE	HOT-MIX ASPHALT SHOULDERS BOTTOM LIFT	HOT-MIX ASPHALT SHOULDERS TOP LIFT	BASE COURSE WIDENING
AC/PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION	IL-19.0	IL-9.5	IL-19.0
FRICTION AGGREGATE	N/A	MIX C	N/A
LOCATIONS	CH 7 SHOULDERS	CH 7 SHOULDERS	CH 7 BASE COURSE
MIXTURE WEIGHT	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN
ABR% (MAX)	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA
SUBLOT SIZE	N/A	N/A	N/A

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PLOT NAME = 010204.dwg
PLOT DATE = 12/11/2018 7:58:04 AM



USER NAME = kjk	DESIGNED - JMS	REVISED -
ESCA PROJECT NO. 1259.09	DRAWN - JHM/KJK	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018 7:58:04 AM	DATE - 12/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND COMMITMENTS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	3
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE	
				ROADWAY	
				0010	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50157300	PROTECTIVE SHIELD	SQ YD	300	300	
50200100	STRUCTURE EXCAVATION	CU YD	275	275	
50300225	CONCRETE STRUCTURES	CU YD	150.8	150.8	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	251.7	251.7	
50300260	BRIDGE DECK GROOVING	SQ YD	796	796	
50300300	PROTECTIVE COAT	SQ YD	1043	1043	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	90.9	90.9	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1	
50500505	STUD SHEAR CONNECTORS	EACH	2466	2466	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	113310	113310	
50800515	BAR SPLICERS	EACH	944	944	
50901125	STEEL RAILING (TEMPORARY)	FOOT	512	512	
51100100	SLOPE WALL4 INCH	SQ YD	330	330	

⊗ SPECIALTY ITEM

REV. - MS

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ESCA PROJECT NO. 1259.09
PLOT SCALE = 0.1667' / 1" = 1/6"
PLOT DATE = 1/2/2019 9:27:27 AM

DESIGNED - JHM
DRAWN - JHM
CHECKED - JMS
DATE - 01/19

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE	SHEET NO. 3 OF 8 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	6
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CONSTRUCTION CODE

90% FEDERAL
10% STATE

CODE
NO.

ITEM

UNIT

TOTAL
QUANTITY

ROADWAY

0010

ROADWAY

60500080

REMOVING CATCH BASINS TO MAINTAIN FLOW

EACH

1

1

60600095

CLASS SI CONCRETE (OUTLET)

CU YD

0.5

0.5

61000050

CONCRETE THRUST BLOCKS

EACH

2

2

61000335

TYPE G INLET BOX, STANDARD 610001

EACH

2

2

⊗

63000001

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

FOOT

125

125

⊗

63000003

STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS

FOOT

100

100

⊗

63100045

TRAFFIC BARRIER TERMINAL, TYPE 2

EACH

2

2

⊗

63100085

TRAFFIC BARRIER TERMINAL, TYPE 6

EACH

4

4

⊗

63100167

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

EACH

4

4

63200310

GUARDRAIL REMOVAL

FOOT

739

739

64300450

IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3

EACH

2

2

64301090

ATTENUATOR BASE

SQ YD

55

55

⊗

66900200

NON-SPECIAL WASTE DISPOSAL

CU YD

150

150

⊗

66900530

SOIL DISPOSAL ANALYSIS

EACH

1

1

⊗ SPECIALTY ITEM

REV. - MS



USER NAME = kjk
ESCA PROJECT NO. 1259.09
PLOT SCALE = 0.1667 ' / 1in.
PLOT DATE = 1/2/2019 9:27:28 AM

DESIGNED - JHM
DRAWN - JHM
CHECKED - JMS
DATE - 01/19

REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	8
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 78454		

SUMMARY OF QUANTITIES

CONSTRUCTION CODE

90% FEDERAL
10% STATE

ROADWAY
0010
ROADWAY

⊗

66901001

REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN

L SUM

1

1

⊗

66901002

ON-SITE MONITORING OF REGULATED SUBSTANCES

CAL DA

2

2

⊗

66901003

REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT

L SUM

1

1

67000400

ENGINEER'S FIELD OFFICE, TYPE A

CAL MO

9

9

67100100

MOBILIZATION

L SUM

1

1

70103815

TRAFFIC CONTROL SURVEILLANCE

CAL DA

14

14

70106500

TEMPORARY BRIDGE TRAFFIC SIGNALS

EACH

1

1

70107025

CHANGEABLE MESSAGE SIGN

CAL DA

84

84

70200100

NIGHTTIME WORK ZONE LIGHTING

L SUM

1

1

70300100

SHORT TERM PAVEMENT MARKING

FOOT

92

92

70300150

SHORT TERM PAVEMENT MARKING REMOVAL

SQ FT

31

31

70300220

TEMPORARY PAVEMENT MARKING - LINE 4"

FOOT

4249

4249

70300280

TEMPORARY PAVEMENT MARKING - LINE 24"

FOOT

151

151

70400100

TEMPORARY CONCRETE BARRIER

FOOT

2200

2200

⊗ SPECIALTY ITEM

REV. - MS



USER NAME = kjk
ESCA PROJECT NO. 1259.09
PLOT SCALE = 0.1667' / 1in.
PLOT DATE = 1/2/2019 9:27:28 AM

DESIGNED - JHM
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CHECKED - JMS
DATE - 01/19

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	9
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 78454		

SUMMARY OF QUANTITIES

CONSTRUCTION CODE

90% FEDERAL
10% STATE

ROADWAY

0010

ROADWAY

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	150	150	
70500690	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 11	EACH	2	2	
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
⊗ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
⊗ 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4249	4249	
⊗ 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	151	151	
⊗ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10	
⊗ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12	
⊗ 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	6	6	
⊗ 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
X0326440	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	SQ YD	129	129	
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	2382	2382	

⊗ SPECIALTY ITEM

REV. - MS

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DRAWN - JHM
CHECKED - JMS
DATE - 01/19

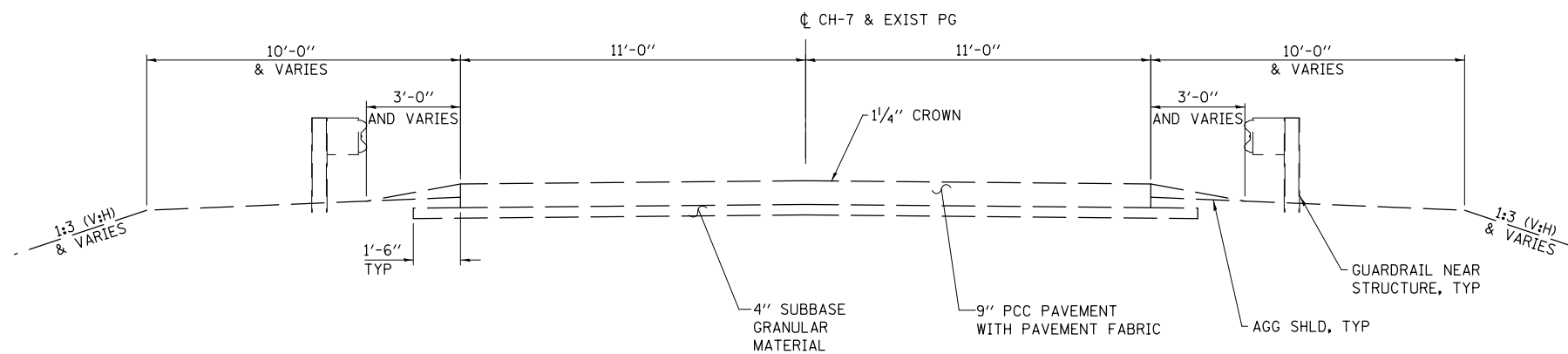
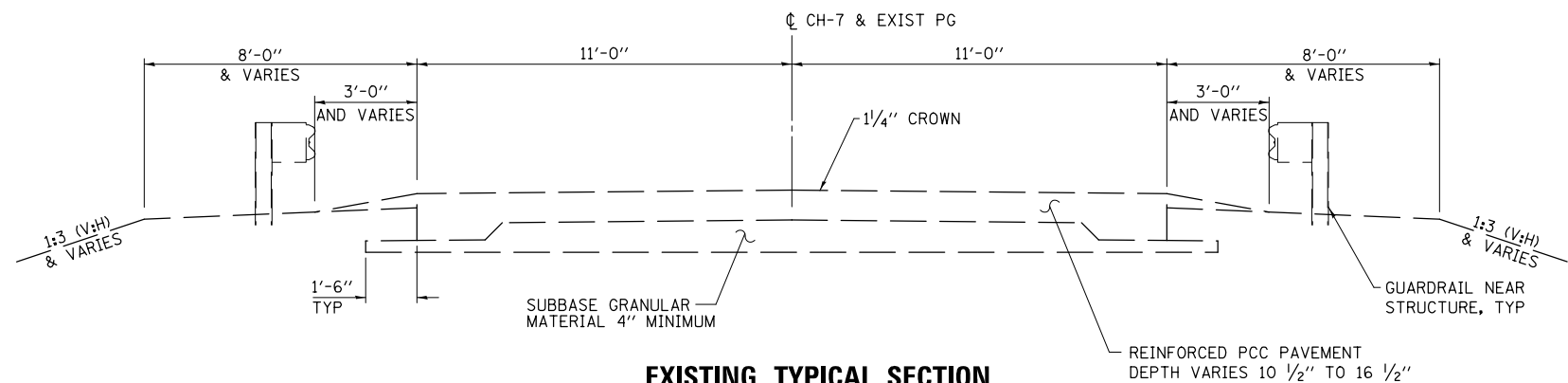
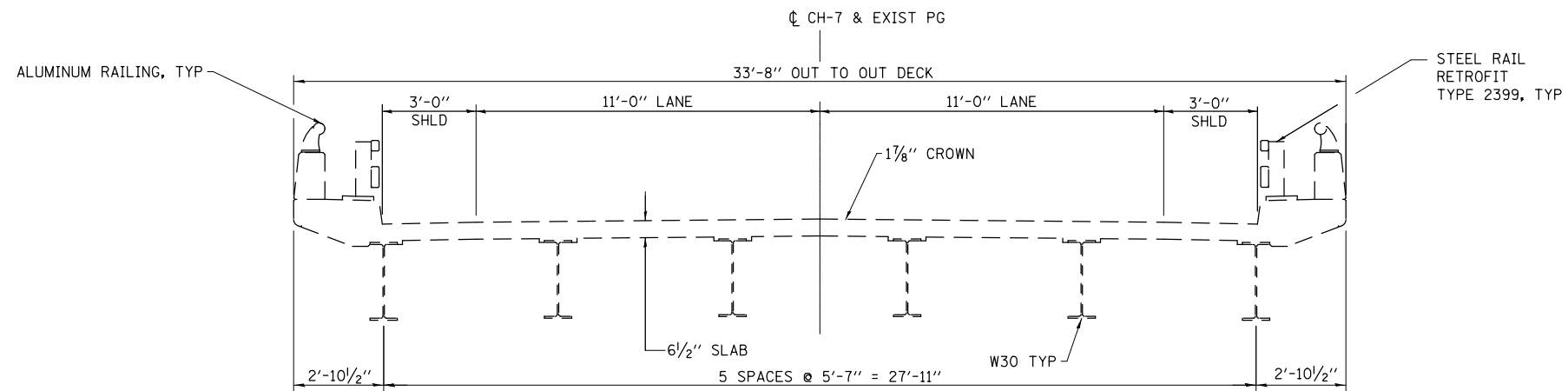
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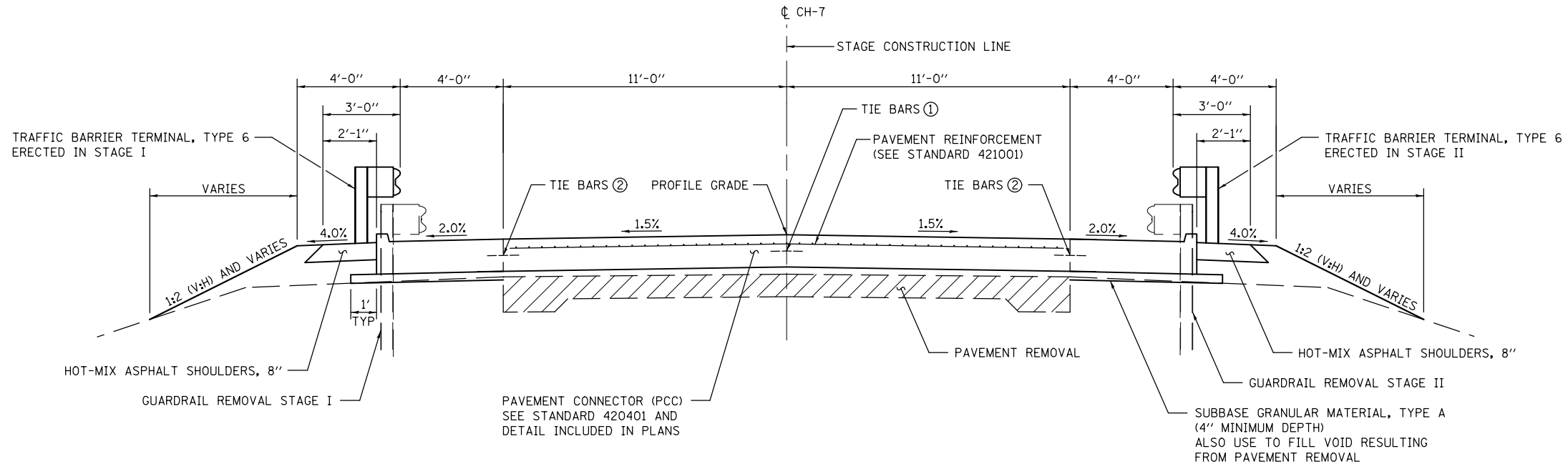
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE SHEET NO. 7 OF 8 SHEETS STA. TO STA.

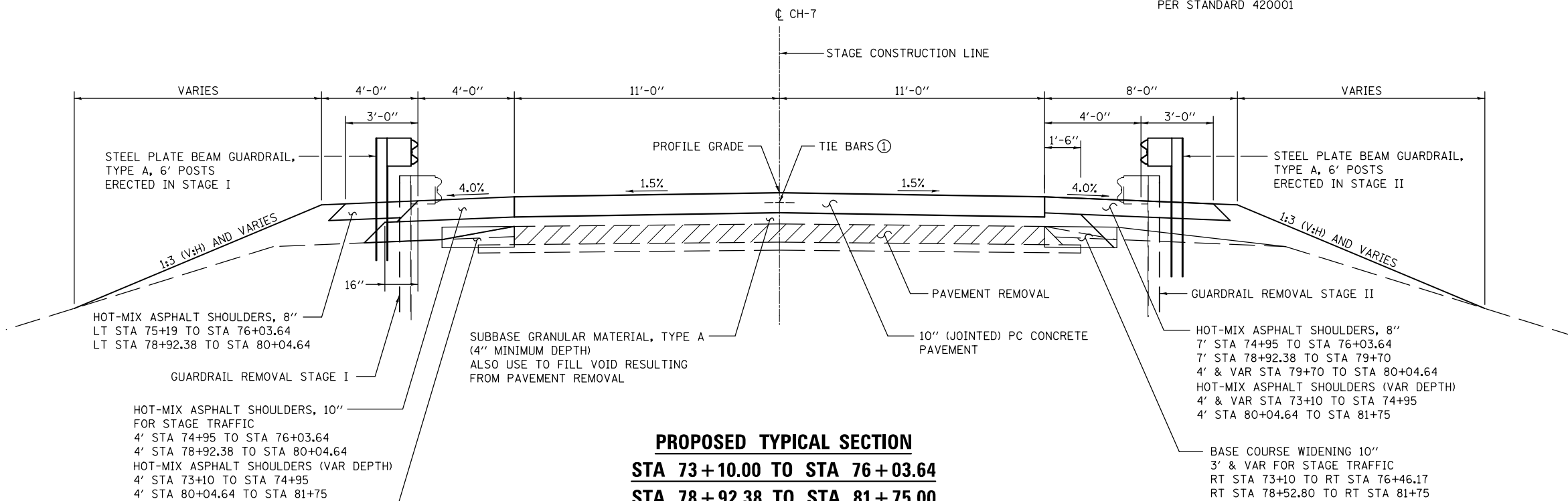
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	10
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





PROPOSED TYPICAL SECTION
STA 76+03.64 TO STA 76+20.56
STA 78+75.46 TO STA 78+92.38

- ① LONGITUDINAL CONSTRUCTION JOINT
(TIE BAR GROUTED IN PLACE)
PER STANDARD 420001
- ② LONGITUDINAL CONSTRUCTION JOINT
(TIE BAR GROUTED IN PLACE)
OR LONGITUDINAL SAWED JOINT
PER STANDARD 420001



PROPOSED TYPICAL SECTION
STA 73+10.00 TO STA 76+03.64
STA 78+92.38 TO STA 81+75.00

NOTE:
SEE SHEETS 28, 30, 32 & 34 FOR DETAILED
STAGE CONSTRUCTION TYPICAL SECTIONS

BASE COURSE WIDENING 10"
VARIABLE WIDTH FOR STAGE TRAFFIC
LT STA 73+10 TO LT STA 74+95
LT STA 80+04.64 TO LT STA 81+75

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS 938 (CH-7) TYPICAL SECTIONS

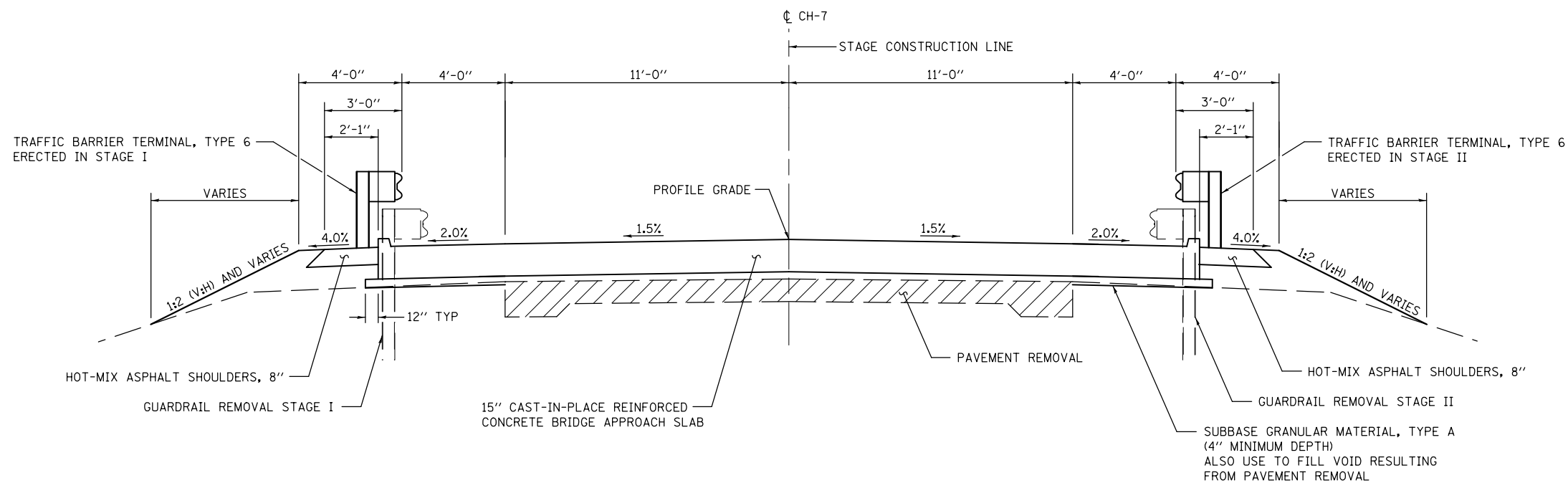
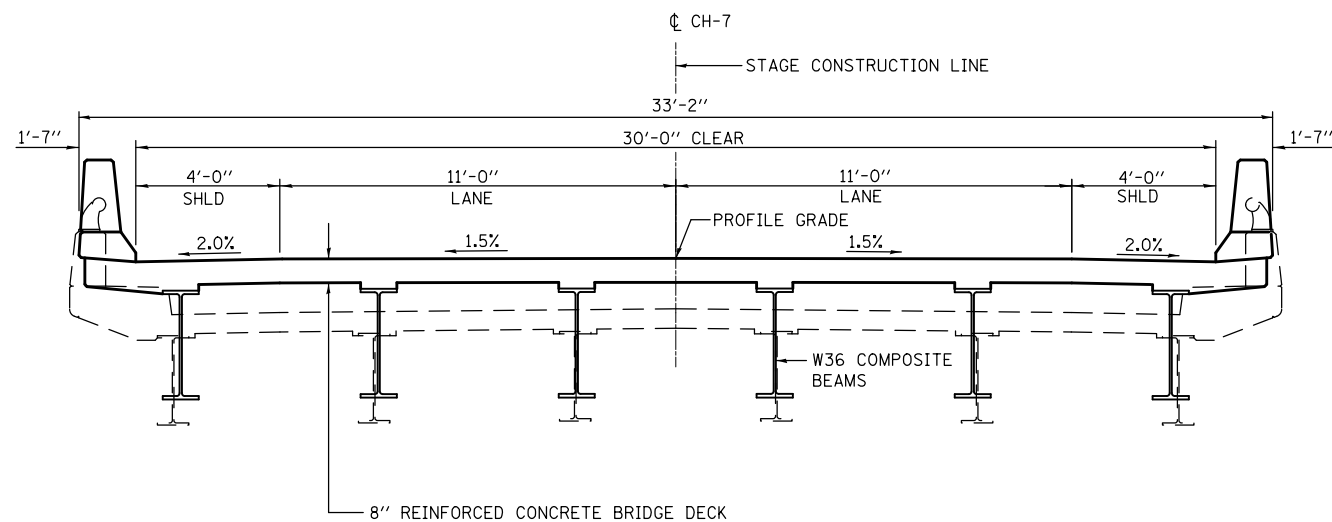
SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. 73+10 TO STA. 81+75

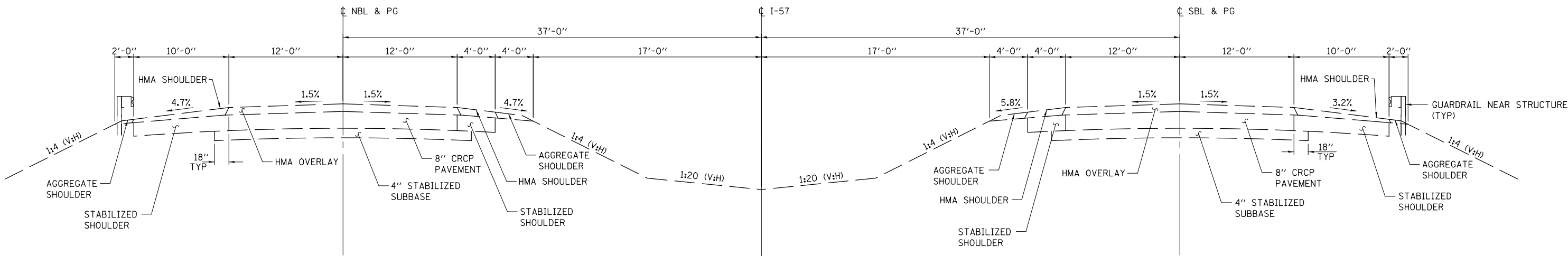
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	13
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PRINT DRIVER = L:\Cadd\Drawings
ESCA PROJECT NO. 1259.09
PLOT SCALE = 0.1667' / 1" = 1/6"
PLOT DATE = 12/11/2018 7:58:07 AM



USER NAME = k.jk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1259.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667' / 1" = 1/6"	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018 7:58:07 AM	DATE - 08/18	REVISED -





EXISTING I-57 TYPICAL SECTION
STA 209+50 TO STA 243+00

PRINT DRIVER = L:\E-Books\10179
ESCA PROJECT NO. 1295.09
PLOT SCALE = 0.1667' / 1" = 1/6"
PLOT DATE = 12/11/2018 7:58:08 AM



USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1295.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667' / 1" = 1/6"	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018 7:58:08 AM	DATE - 08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI-57 TYPICAL SECTION			
SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	15
CONTRACT NO. 78454				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



GUARDRAIL SCHEDULE									
LOCATION	GUARDRAIL REMOVAL	SPBGR, TYPE A, 6 FT POSTS	SPBGR, TYPE A, 9 FT POSTS	TBT, TYPE 2	TBT, TYPE 6	TBT, TYPE 1 (SPL) TANGENT	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE B	TERMINAL MARKER - DIRECT APPLIED
	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
SN 077-0041 NORTHWEST CORNER	103	12.5			1	1	2		1
SN 077-0041 SOUTHWEST CORNER	190	50			1	1	2		1
SN 077-0041 NORTHEAST CORNER	189	50			1	1	2		1
SN 077-0041 SOUTHEAST CORNER	102	12.5			1	1	2		1
I-57 NBL	80		50	1			2		
I-57 SBL	75		50	1			2		
STRUCTURE 077-0041 EASTBOUND								3	
STRUCTURE 077-0041 WESTBOUND								3	
TOTALS	739	125	100	2	4	4	12	6	4

IMPACT ATTENUATOR SCHEDULE				
LOCATION	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	ATTENUATOR BASE	REMOVE IMPACT ATTENUATORS, (NO SALVAGE)	REMOVE ATTENUATOR BASE
	EACH	SQ YD	EACH	EACH
I-57 MEDIAN SOUTH OF PIER	1	27.5	1	1
I-57 MEDIAN NORTH OF PIER	1	27.5	1	1
TOTAL	2	55	2	2

TEMPORARY PAVEMENT MARKING SCHEDULE					
LOCATION	DESCRIPTION	TEMPORARY PAVEMENT MARKING - LINE 4"		TEMPORARY PAVEMENT MARKING - LINE 24"	PAVEMENT MARKING REMOVAL - GRINDING
		FOOT		FOOT	SQ FT
		WHITE	YELLOW	WHITE	
CH 7					
RT STA 72+00 TO LT STA 83+00	NO-PASS		1,100		366.7
LT STA 72+90 TO LT STA 83+00	NO-PASS		1,100		366.7
RT STA 72+26.13 TO RT STA 72+82	EDGE LINE	72			24
RT STA 72+82 TO RT STA 81+94.08	EDGE LINE	912			304
RT STA 81+94.08 TO RT STA 82+17.04	EDGE LINE	47			15.7
LT STA 72+89.65 TO LT STA 73+09	EDGE LINE	29			9.7
LT STA 73+09 TO LT STA 82+18.64	EDGE LINE	910			303.3
LT STA 82+18.64 TO LT STA 82+44.50	EDGE LINE	79			26.3
I-57 RAMP					
RAMP D	STOP BAR			73	146
RAMP B	STOP BAR			78	156
	SUBTOTALS	2,049	2,200		
	TOTALS	4,249		151	1,718

BASE COURSE WIDENING SCHEDULE	
LOCATION	BASE COURSE WIDENING 10"
	SQ YD
CH 7 RT STA 73+10 TO RT STA 76+46.17	135
CH 7 LT STA 73+10 TO LT STA 74+95	85
CH 7 RT STA 78+52.80 TO STA 81+75	128
CH 7 LT STA 80+04.64 TO STA 81+75	76
TOTAL	424

SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL) SCHEDULE	
LOCATION	SURFACE REMOVAL (SPECIAL)
	SQ YD
CH 7 RT STA 73+10 TO RT STA 73+60	22
CH 7 LT STA 73+10 TO LT STA 73+60	22
CH 7 RT STA 80+90 TO STA 81+75	38
CH 7 LT STA 80+70 TO STA 81+75	47
TOTAL	129

SHORT TERM PAVEMENT MARKING & TRAFFIC CONTROL MARKING REMOVAL				
LOCATION	DESCRIPTION	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL - GRINDING
		FOOT	SQ FT	SQ FT
		YELLOW		
CH 7 STA 73+10 TO STA 81+75	CENTERLINE	92	31	
STAGE I				
CH 7 STA 71+68 TO STA 74+20	CENTERLINE			168
CH 7 STA 80+80 TO STA 83+36	CENTERLINE			171
CH 7 RT STA 74+27 TO RT STA 80+71	EDGE LINE			215
STAGE II				
CH 7 LT STA 73+88 TO LT STA 74+57	EDGE LINE			23
CH 7 LT STA 80+75.05 TO LT STA 81+11	EDGE LINE			12
STAGE III				
CH 7 LT STA 73+29 TO LT STA 74+27	EDGE LINE			33
CH 7 LT STA 80+71 TO LT STA 81+96	EDGE LINE			42
TOTALS		92	31	664

PAVEMENT MARKING & RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE					
LOCATION	DESCRIPTION	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	RAISED REFLECTIVE PAVEMENT MARKER
		FOOT	FOOT	FOOT	EACH
		YELLOW	WHITE	WHITE	AMBER
CH 7					
73+10 TO 76+50.56 & 78+45.46 TO 81+75	AMBER BI-DIRECT				10
RT STA 72+00 TO LT STA 83+00	NO-PASS	1,100			
LT STA 72+90 TO LT STA 83+00	NO-PASS	1,100			
RT STA 72+26.13 TO RT STA 72+82	EDGE LINE		72		
RT STA 72+82 TO RT STA 81+94.08	EDGE LINE		912		
RT STA 81+94.08 TO RT STA 82+17.04	EDGE LINE		47		
LT STA 72+89.65 TO LT STA 73+09	EDGE LINE		29		
LT STA 73+09 TO LT STA 82+18.64	EDGE LINE		910		
LT STA 82+18.64 TO LT STA 82+44.50	EDGE LINE		79		
I-57 RAMP					
RAMP D	STOP BAR			73	
RAMP B	STOP BAR			78	
	SUBTOTALS	2,200	2,049		
	TOTALS	4,249		151	10

TEMPORARY CONCRETE BARRIER SCHEDULE				
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	TEMPORARY TBT, TYPE 11
	FOOT	FOOT	EACH	EACH
CH 7 STAGE I TRAFFIC CONTROL	150		12	2
CH 7 STAGE II TRAFFIC CONTROL	500	150	12	
I-57 NBL TRAFFIC CONTROL	775			
I-57 SBL TRAFFIC CONTROL	775			
TOTALS	2,200	150	24	2

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L:\ESCA\Bates\78455.dgn
PLOT SCALE = 1"=40'-0"
PLOT DATE = 12/11/2018 7:58:10 AM



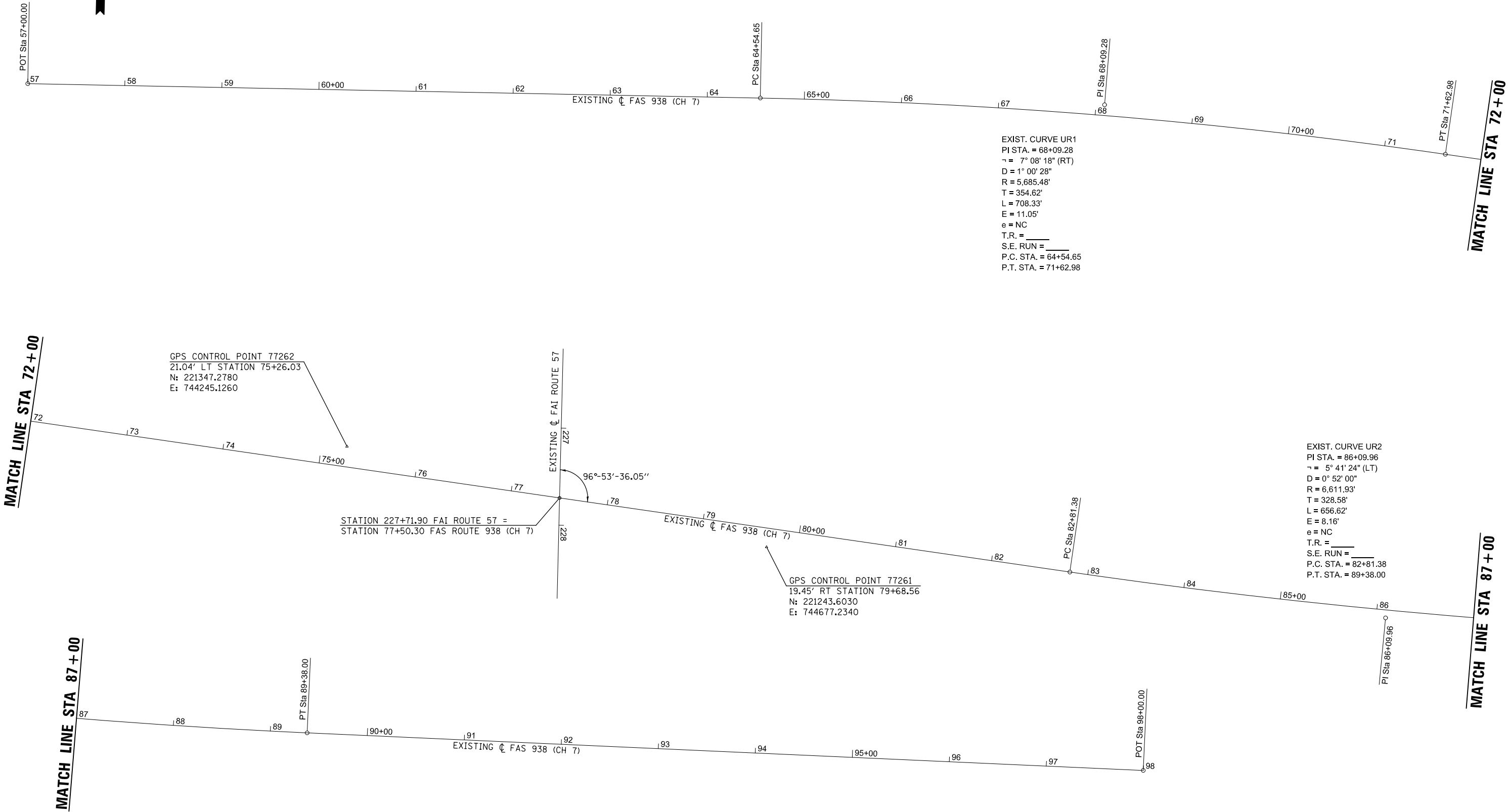
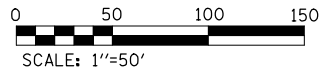
USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1259.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667 ' / 1" =	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018 7:58:10 AM	DATE - 12/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	18
CONTRACT NO. 78455				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PRINT DRIVER = L:\00-ESCA\10175
SOURCE NAME = P:\UT
SCALE NAME = 0.16667 in. = 1 ft
FILE NAME = 0102054.dwg



USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1259.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667' / 1 in.	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -

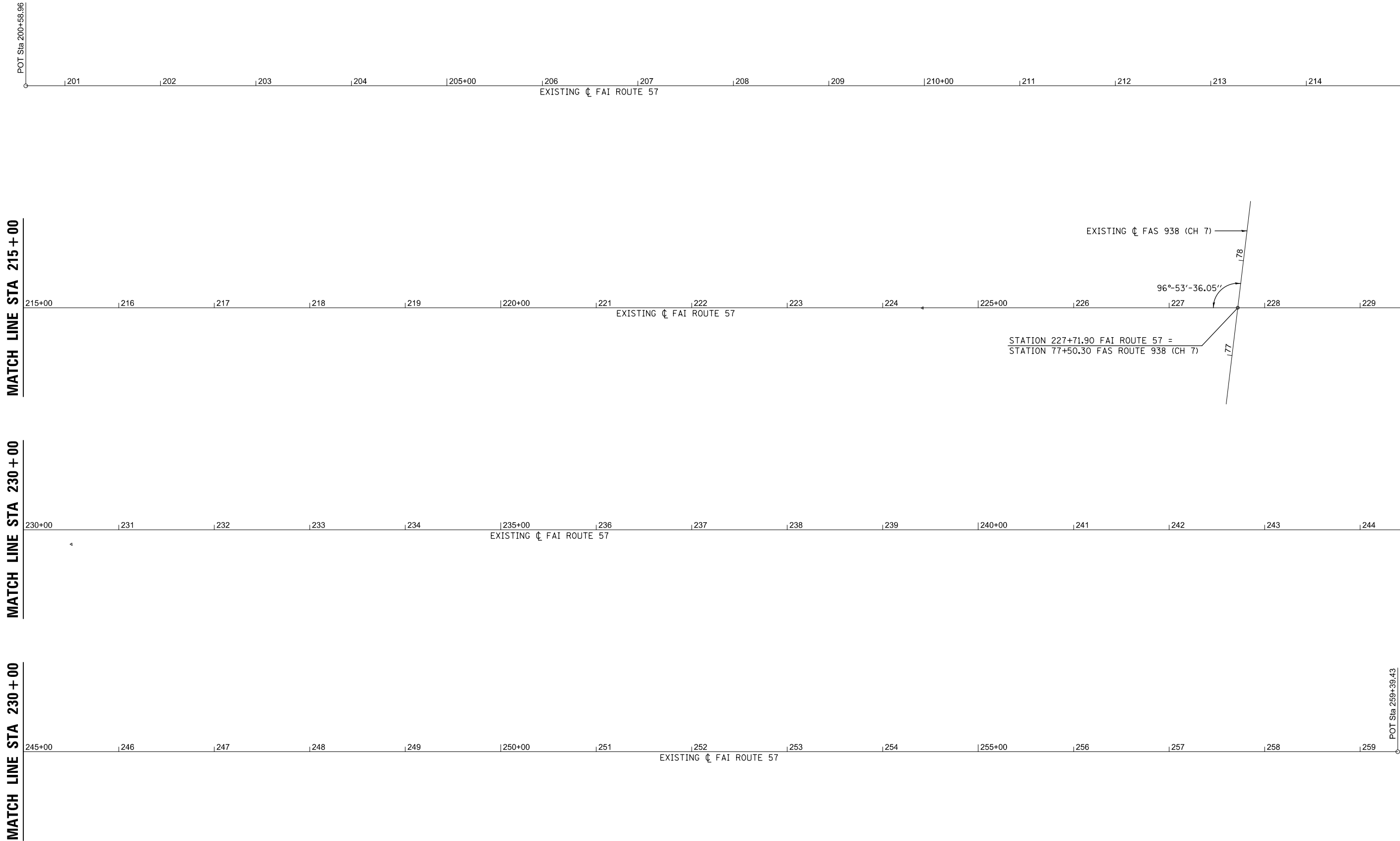
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. 57+00.00 TO STA. 98+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	19
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PRINT DRIVER = L:\ESCA\Bates\9
SCALE: 1"=50'
DATE = 12/11/2018
FILE NAME = 01259-259+39.43.dwg



USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1259.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS			
SCALE: 1"=50'	SHEET NO. 2 OF 3 SHEETS	STA. 200+58.96 TO STA. 259+39.43	

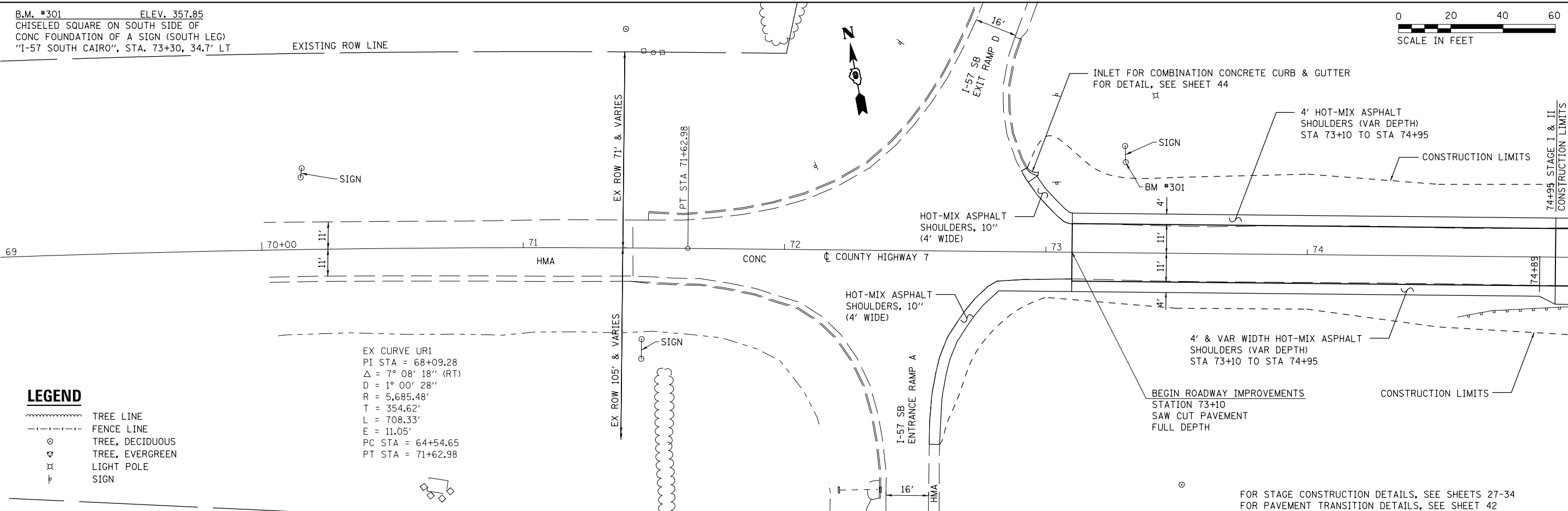
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	20
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	ALIGNED		
	CHECKED		
	FILE NAME		

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

B.M. #301 ELEV. 357.85
CHISELED SQUARE ON SOUTH SIDE OF
CONC FOUNDATION OF A SIGN (SOUTH LEG)
"I-57 SOUTH CAIRO", STA. 73+30, 34.7' LT

EXISTING ROW LINE



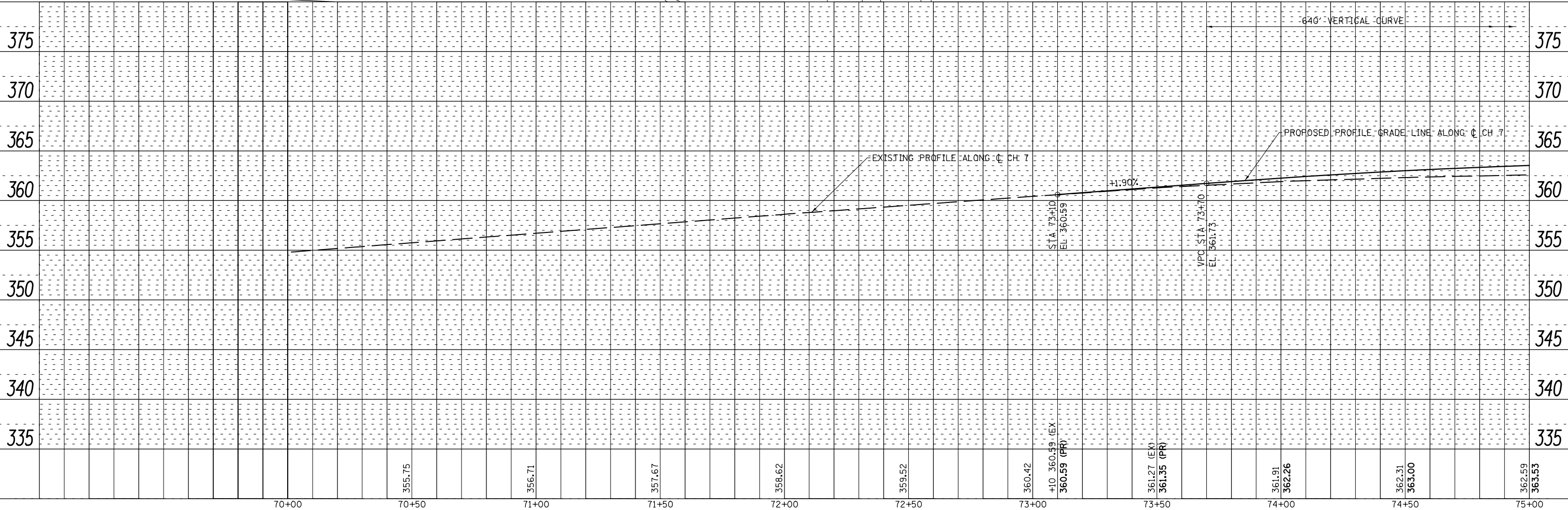
MATCH LINE STA 75+00
SEE SHEET 23

LEGEND

- TREE LINE
- FENCE LINE
- TREE, DECIDUOUS
- TREE, EVERGREEN
- LIGHT POLE
- SIGN

EX CURVE UR1
PI STA = 68+09.28
 $\Delta = 7^\circ 08' 18''$ (RT)
D = 1° 00' 28"
R = 5,685.48'
T = 354.62'
L = 708.33'
E = 11.05'
PC STA = 64+54.65
PT STA = 71+62.98

FOR STAGE CONSTRUCTION DETAILS, SEE SHEETS 27-34
FOR PAVEMENT TRANSITION DETAILS, SEE SHEET 42



USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT 1259.09	DRAWN - JHM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

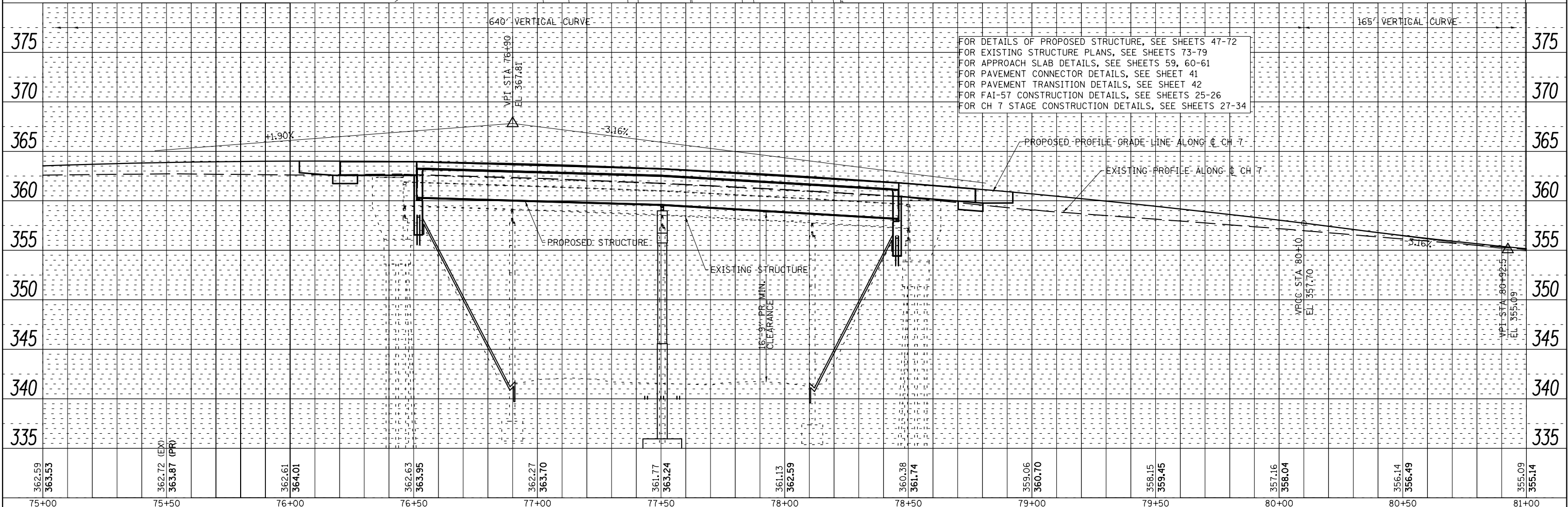
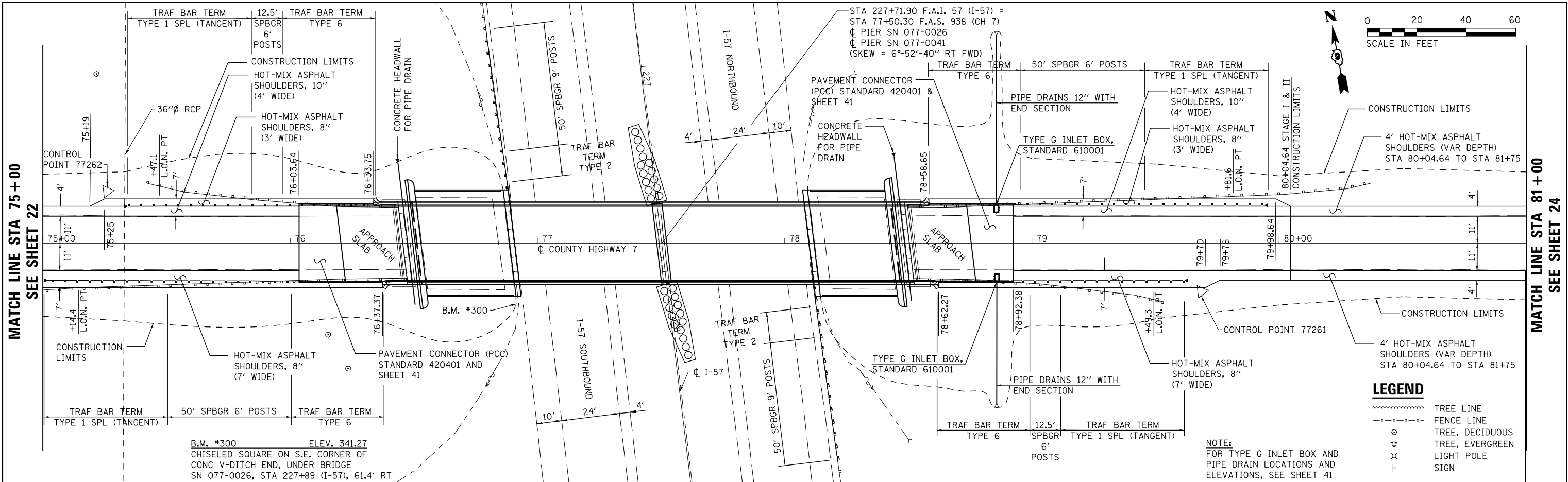
FAS 938 (CH-7) PLAN AND PROFILE

SCALE: AS SHOWN SHEET 1 OF 3 SHEETS STA. 70+00 TO STA. 75+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	22
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED		
NO.	CHECKED		
	FILE NAME		

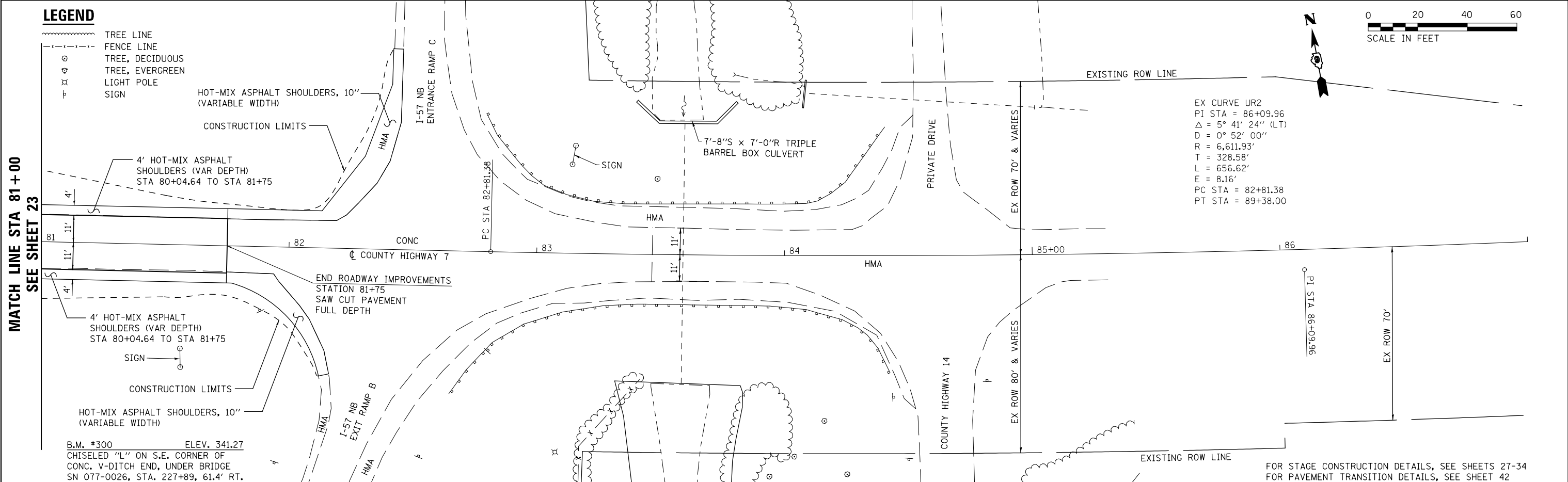
PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES		
NO.	CHECKED		
	STRUCTURE		
	NOTATION		



	USER NAME = kjk	DESIGNED - JHM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS 938 (CH-7) PLAN AND PROFILE				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ESCA PROJECT 1259.09	DRAWN - JHM	REVISED -						57	(77-1-3)HB-2	PULASKI	92	23
	PLOT SCALE = 40.0000' / 1" =	CHECKED - JMS	REVISED -						CONTRACT NO. 78454				
	PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -						ILLINOIS FED. AID PROJECT				
SCALE: AS SHOWN					SHEET 2 OF 3 SHEETS	STA. 75+00 TO STA. 81+00							

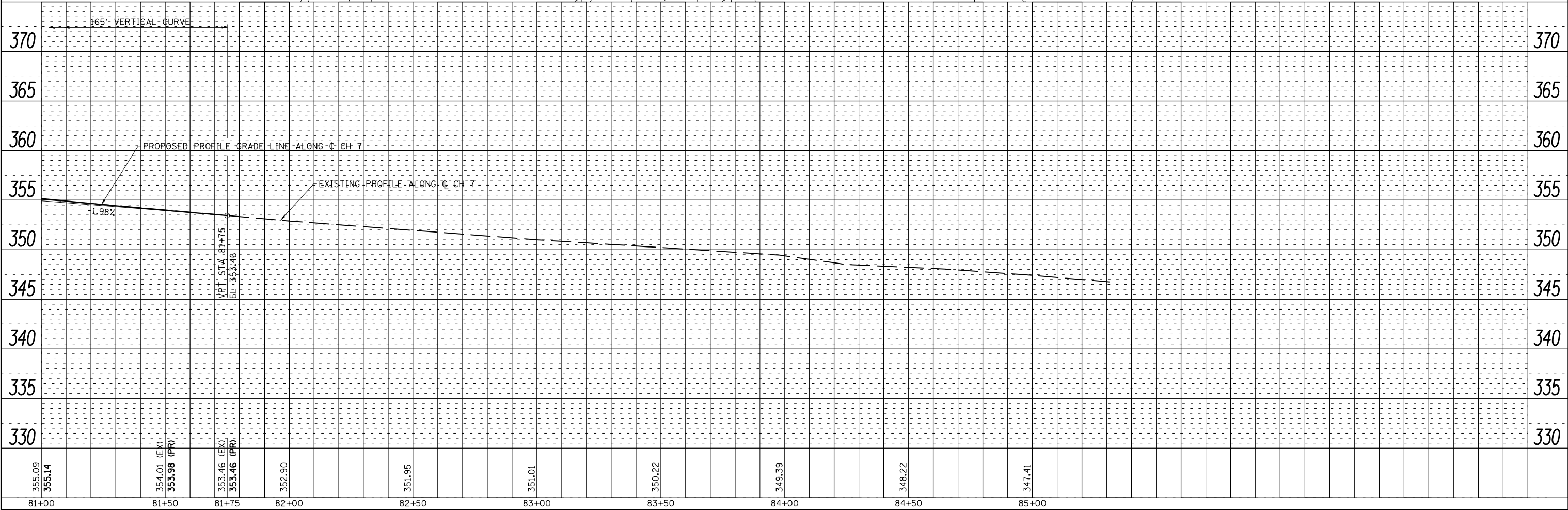
PLAN	SURVEYED PLOTTED	BY	DATE
CHECKED FILE NAME	CHECKED FILE NAME	BY	DATE

PROFILE	SURVEYED PLOTTED	BY	DATE
CHECKED NOTATION CHKD	CHECKED NOTATION CHKD	BY	DATE



EX CURVE UR2
PI STA = 86+09.96
Δ = 5° 41' 24" (LT)
D = 0° 52' 00"
R = 6,611.93'
T = 328.58'
L = 656.62'
E = 8.16'
PC STA = 82+81.38
PT STA = 89+38.00

FOR STAGE CONSTRUCTION DETAILS, SEE SHEETS 27-34
FOR PAVEMENT TRANSITION DETAILS, SEE SHEET 42



USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT 1259.09	DRAWN - JHM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS 938 (CH-7) PLAN AND PROFILE			
SCALE: AS SHOWN	SHEET 3 OF 3 SHEETS	STA. 81+00 TO STA. 85+00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	24
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	FILED		
	CADD FILE NAME		

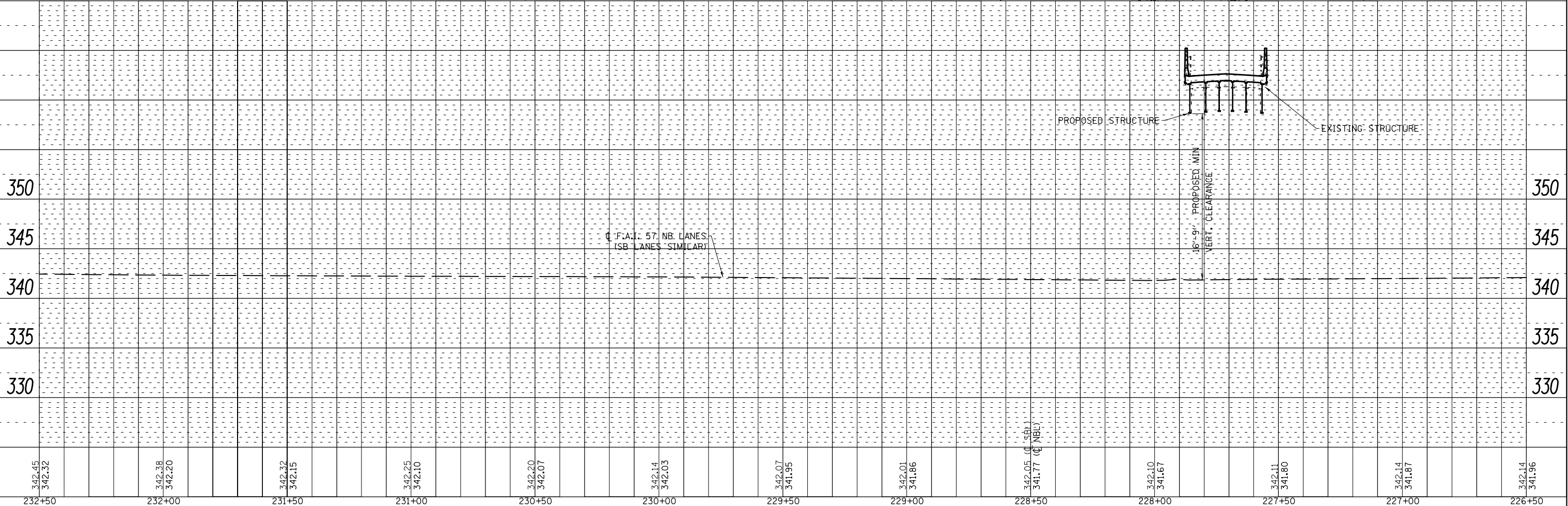
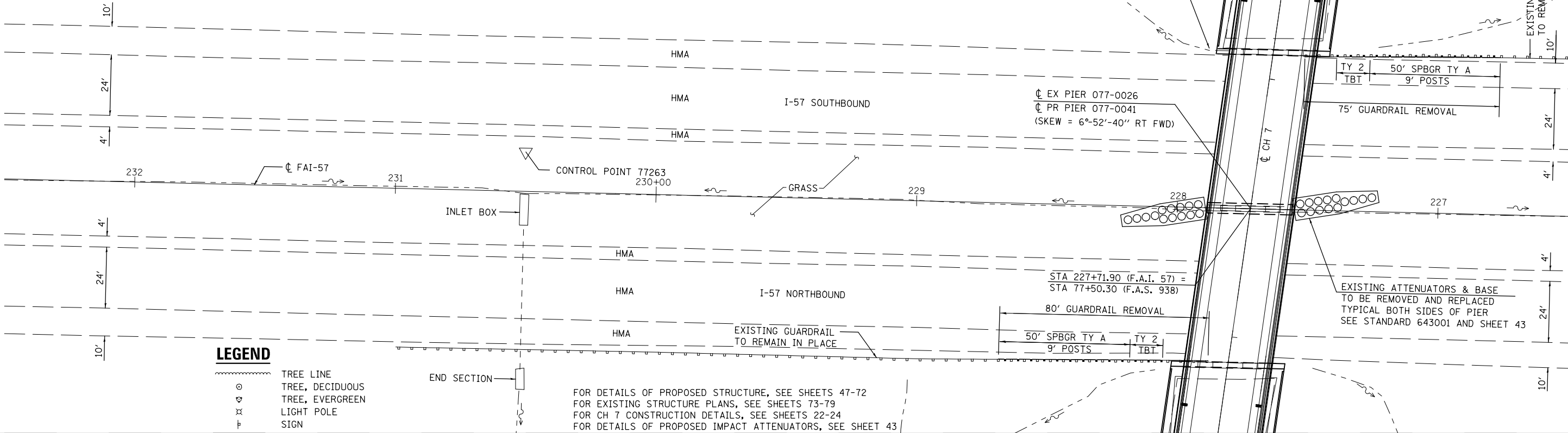
PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		

B.M. #301 ELEV. 357.85
CHISELED SQUARE ON SOUTH SIDE OF
CONC FOUNDATION OF A SIGN (SOUTH LEG)
"I-57 SOUTH CAIRO", STA. 73+30, 34.7' LT

0 20 40 60
SCALE IN FEET



B.M. #300 ELEV. 341.27
CHISELED SQUARE ON S.E. CORNER OF
CONC V-DITCH END, UNDER BRIDGE
SN 077-0026, STA 227+89, 61.4' RT



USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1259.09	DRAWN - JHM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

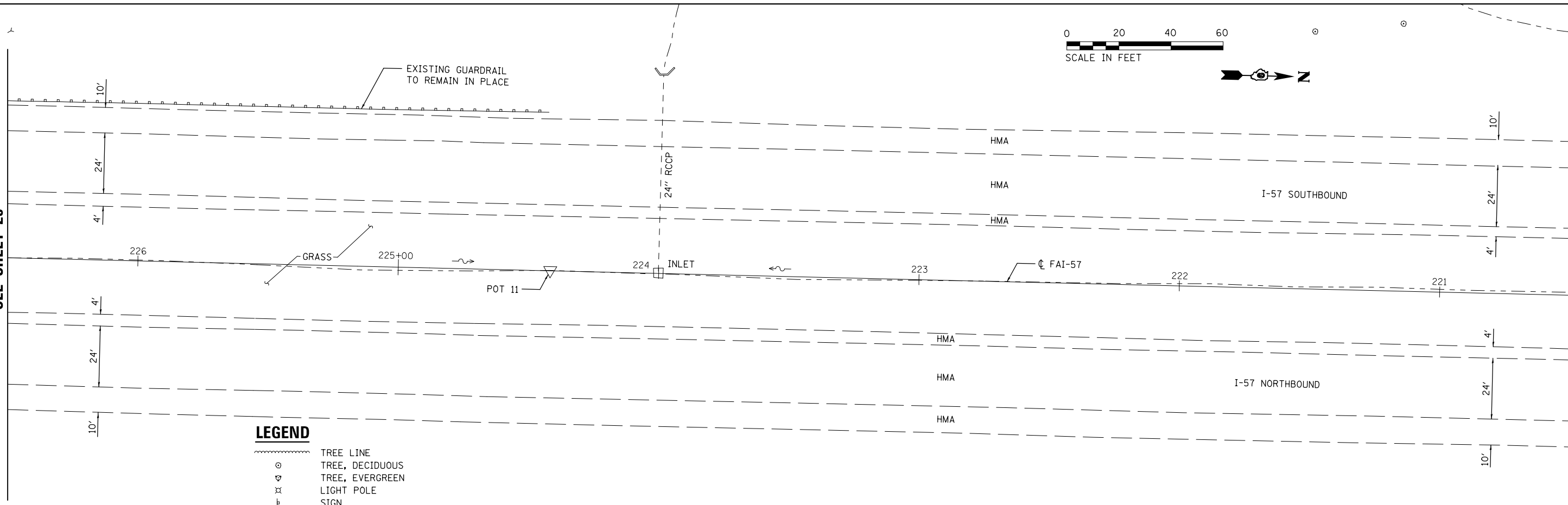
I-57 PLAN AND PROFILE

SCALE: AS SHOWN SHEET 1 OF 2 SHEETS STA. 232+50 TO STA. 226+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	25
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

PLAN			BY	DATE
	SURVEYED			
	PLOTTED			
NOTE BOOK	ALIGNMENT CHECKED			
	RT. OF WAY CHECKED			
NO. _____	CADD FILE NAME _____			

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	GRADES CHECKED		
	B.M. NOTED		
NO. _____	STRUCTURE NOTATIONS CHKD		

[illegible]

 ESCA CONSULTANTS, INC. OFFICE OF PROFESSIONAL ENGINEERS	USER NAME = kjk	DESIGNED - JHM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-57 PLAN AND PROFILE			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ESCA PROJECT NO. 1259.09	DRAWN - JHM	REVISED -					57	(77-1-3)HB-2	PULASKI	92	26
	PLOT SCALE = 48.0000' / 1in.	CHECKED - JMS	REVISED -		CONTRACT NO. 78454							
	PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -		SCALE: AS SHOWN	SHEET 2 OF 2 SHEETS	STA. 226+50 TO STA. 220+50	ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER

STATION, O/S	TO	STATION, O/S	FEET
74+19.12, 6.3' LT		74+93.64, 3.0' RT	75.0
80+05.64, 3.0' RT		80+80.17, 6.3' LT	75.0
			150.0

PINNING TEMPORARY CONCRETE BARRIER

STATION	TO	STATION	TYPE	EACH
74+56.14		74+93.64	TRANSITION	6
80+05.64		80+43.14	TRANSITION	6
			STAGE I TOTAL	12

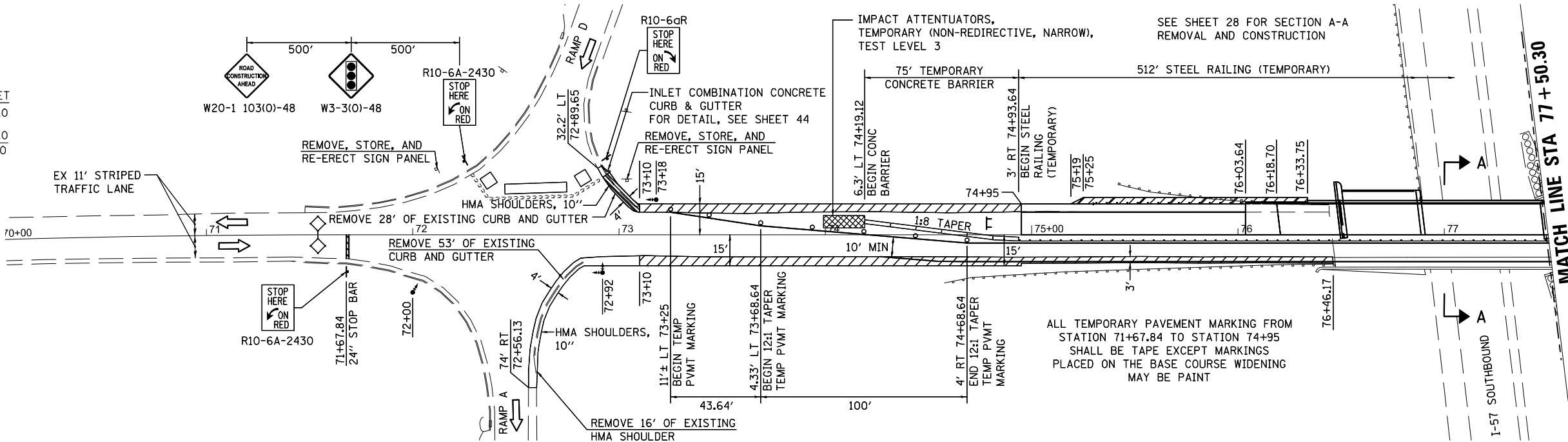
STEEL RAILING (TEMPORARY)

STATION, O/S	TO	STATION, O/S	FEET
74+93.64, 3.0' RT		80+05.64, 3.0' RT	512.0
		TOTAL	512.0

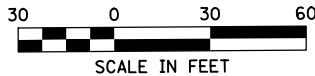
TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3 - 2 EACH

TRAFFIC BARRIER TERMINAL, TYPE 11 - 2 EACH

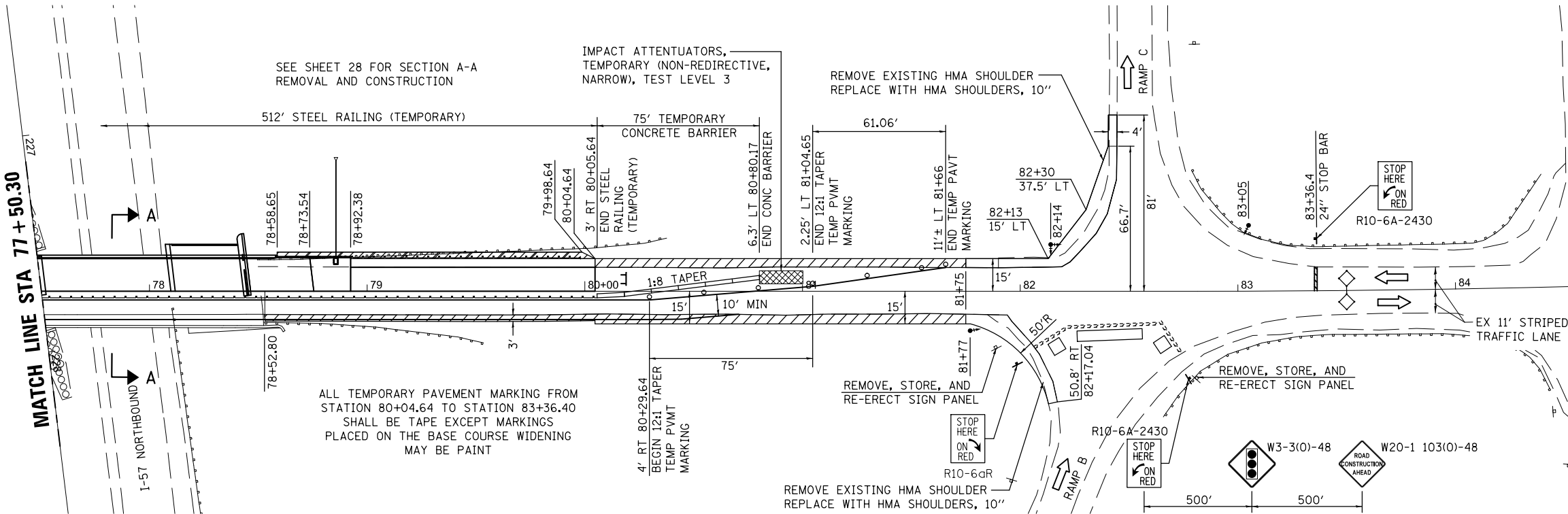


STAGE I PLAN



LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- DETECTOR LOOP
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- BASE COURSE WIDENING 10"
- HMA SHOULDERS 8"
- HMA SHOULDERS 10"
- PCC PAVEMENT 10" (JOINTED)
- PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
- BRIDGE APPROACH SLAB
- CAST IN PLACE CONCRETE BRIDGE SLAB



STAGE I PLAN

PRINT DRIVER = L:\ESCA\Bates\78454\78454.dwg
SCALE NAME = 1/8"=1'-0"
PLOT SCALE = 1/8"=1'-0"



USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1295.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018 7:58:14 AM	DATE - 12/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

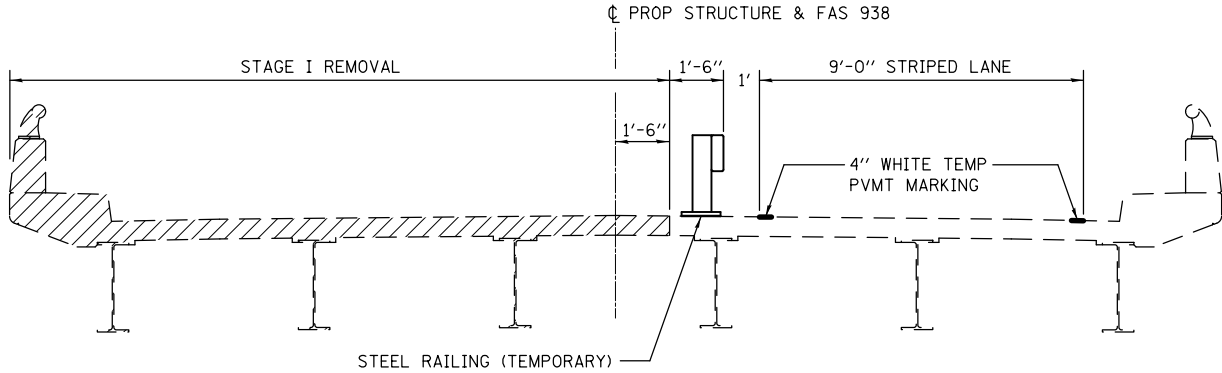
FAS 938 (CH 7) STAGE CONSTRUCTION DETAILS

SCALE: AS SHOWN SHEET NO. 1 OF 8 SHEETS STA. 71+00 TO STA. 83+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	27
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

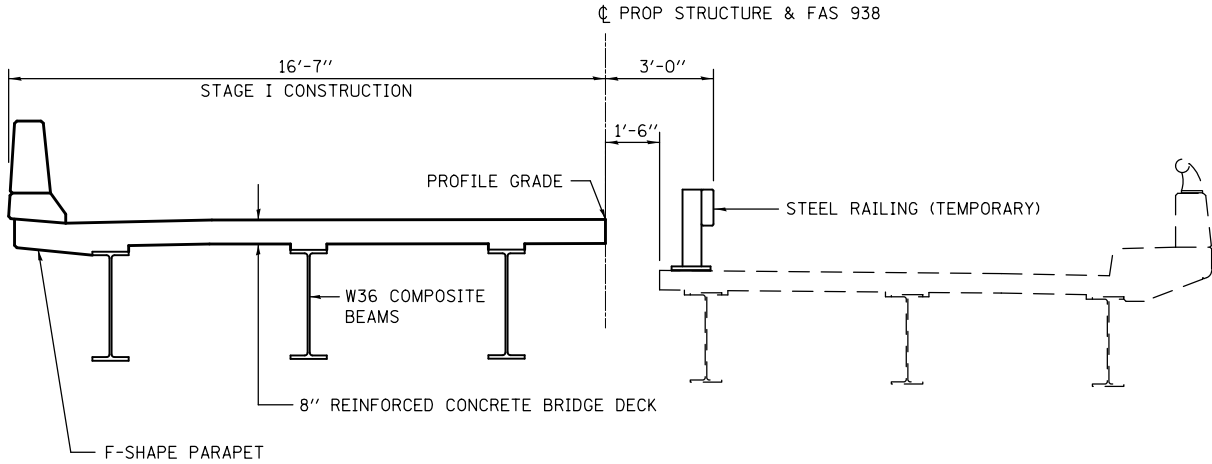
PRE STAGE I & STAGE I GENERAL NOTES

- PRE-STAGE 1: CONSTRUCT THE BASE COURSE WIDENING 10" RT STA 73+10 TO RT STA 76+46; RT STA 78+53 TO RT STA 81+75; LT STA 73+10 TO LT STA 74+95; AND LT STA 80+04.64 TO LT STA 81+75. THE HMA SHOULDERS 10" SHOWN AT THE FOUR LOCATIONS ON THE STAGE I PLAN DETAIL AT THE RAMP INTERSECTIONS WITH COUNTY HIGHWAY 7 SHALL ALSO BE CONSTRUCTED. THE EXISTING DEBRIS AND AGGREGATE SHALL BE REMOVED FROM THE TOP OF THE BRIDGE DECK WITHIN THE AREA OF THE STAGE I TRAFFIC LANE. THE COST ASSOCIATED WITH THIS REMOVAL WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE BASE COURSE WIDENING 10". TEMPORARY REPAIR OR PATCHING OF THE EXISTING BRIDGE DECK FOR STAGE I TRAFFIC, IF NEEDED AND DIRECTED BY THE ENGINEER, WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN ON THIS SHEET, INCLUDING BUT NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH THE FINAL WORK AS DIRECTED BY THE ENGINEER.
- THE SIGNALS FOR RAMPS B AND D TRAFFIC SHALL BE ACTUATED AND RUN ON ONE CONTROLLER. THE ADVANCE LOOPS SHALL BE INSTALLED ON RAMPS B AND D AT LOCATIONS DESIGNATED BY THE ENGINEER.
- THE CYCLE LENGTH FOR THE PROPOSED SIGNAL SYSTEM AND THE CLEARANCE INTERVAL WILL BE PROVIDED BY THE ENGINEER.
- THE INTERSECTIONS SHALL BE MONITORED AND THE CYCLE LENGTH AND TIMING ADJUSTED IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION. BACKUPS OF RAMP TRAFFIC ONTO I-57 SHALL BE AVOIDED.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON SHEET 30 SHALL BE 9'-6" FOR STAGE I CONSTRUCTION.
- THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHALL APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- TEMPORARY RUMBLE STRIPS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED.
- STAGE I CONSTRUCTION SHALL INCLUDE COMPLETION OF THE EARTHWORK, PCC PAVEMENT, SUBBASE, HMA SHOULDERS, GUARDRAIL AND TRAFFIC BARRIER TERMINALS FROM LT STA 74+96 TO LT STA 80+04.64 AS REFERENCED ON SHEET 27 AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS.
- THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED AS SPECIFIED IN SECTION 704 OF THE STANDARD SPECIFICATIONS. THE STEEL RAILING (TEMPORARY) SHALL BE CONSTRUCTED ACCORDING TO SHEET NO. 53 OF THE PLANS AND SECTION 509 OF THE STANDARD SPECIFICATIONS.
- THE STEEL RAILING (TEMPORARY) SHALL BE CONNECTED TO THE TEMPORARY CONCRETE BARRIER AT STA 74+93.64 AND 80+05.64 WITH A TRAFFIC BARRIER TERMINAL TYPE 11. SEE STANDARD 631051 FOR DETAILS.
- A TEMPORARY PATCH WILL BE REQUIRED AT THE ENDS OF THE PROPOSED PAVEMENT ON STAGE I AND STAGE II IF THE EXISTING PAVEMENT IS REMOVED BEYOND THE LIMITS OF THE NEW PAVEMENT CONSTRUCTION TO ALLOW FOR AN END FORM. THE COST OF THE TEMPORARY PATCH WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- TEMPORARY RAMPS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE STAGE II PLAN DETAIL PRIOR TO STAGE II CONSTRUCTION. THE TOP WIDTH OF THE RAMP WILL EXTEND 1 FOOT BEYOND THE BACK OF THE TEMPORARY CONCRETE BARRIER LOCATION BEFORE TAPERING ON A 1:1 TO THE EXISTING PAVEMENT. TACK COAT SHALL BE APPLIED TO THE PAVEMENT SURFACE PRIOR TO CONSTRUCTING THE RAMP. THIS WORK WILL BE PAID IN ACCORDANCE WITH ARTICLE 406.13 AND 406.14 OF THE STANDARD SPECIFICATIONS, EXCEPT THE TACK COAT WILL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT BID PRICE PER SQUARE YARD FOR THE TEMPORARY RAMP.

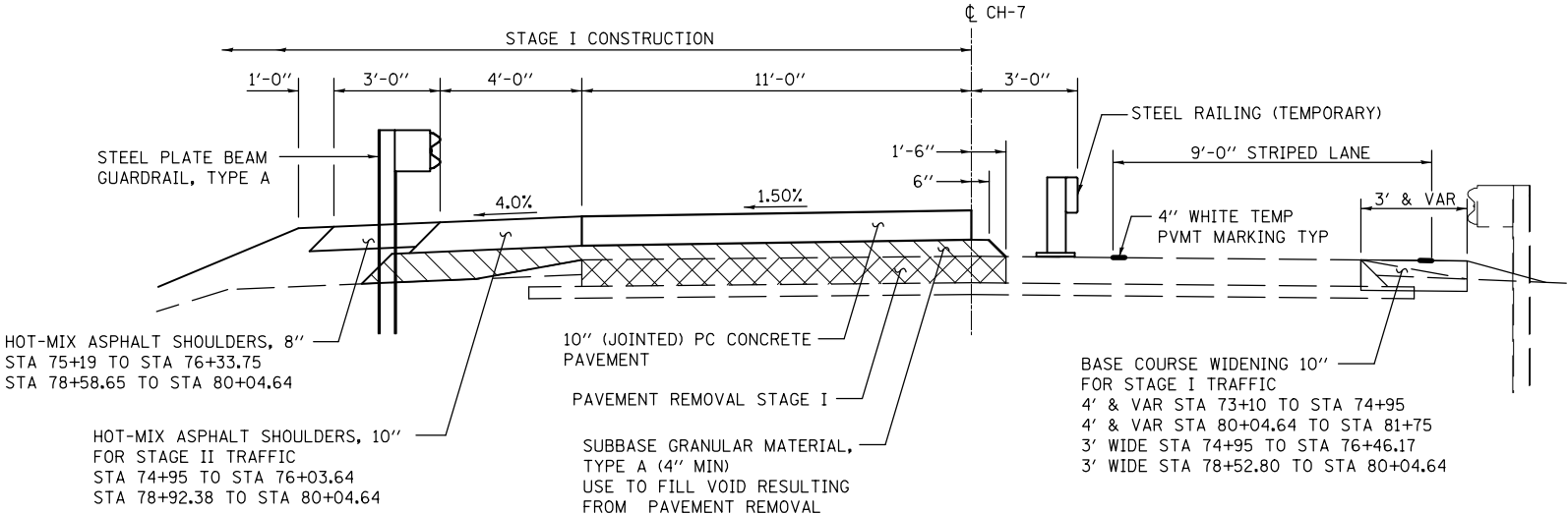


NOTE: A TEMPORARY SUPPORT SYSTEM WILL BE INSTALLED ON THE SOUTH SIDE OF EXISTING PIER 2 (CENTER PIER) PRIOR TO STAGE I PIER REMOVAL. SEE SHEET 51 FOR PIER STAGE CONSTRUCTION DETAILS.

SECTION A-A BRIDGE REMOVAL



SECTION A-A BRIDGE CONSTRUCTION



- SUBBASE GRANULAR MATERIAL, TYPE A
- PAVEMENT REMOVAL

STAGE I ROADWAY
STA 74 + 95 TO STA 76 + 03.64
STA 78 + 92.38 TO STA 80 + 04.64

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS 938 (CH 7) STAGE CONSTRUCTION DETAILS

SCALE: AS SHOWN SHEET NO. 2 OF 8 SHEETS STA. 71+00 TO STA. 83+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	28
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

RELOCATE TEMPORARY CONCRETE BARRIER			
STATION, O/S	TO	STATION, O/S	FEET
74+25.59, 4.78' RT		75+00.32, 2.38' LT	75.0
80+00.32, 2.38' LT		80+75.05, 4.77' RT	75.0
		TOTAL	150.0

TEMPORARY CONCRETE BARRIER			
STATION, O/S	TO	STATION, O/S	FEET
75+00.32, 2.38' LT		80+00.32, 2.38' LT	500.0
		TOTAL	500.0

<u>PINNING TEMPORARY CONCRETE BARRIER</u>		
<u>STATION</u>	<u>TO</u>	<u>EACH</u>
74+50.32	74+87.20	6
80+12.82	80+50.32	<u>6</u>
STAGE II TOTAL		12

30 0 30 60

SCALE IN FEET

	DIRECTION OF TRAFFIC
	TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
	DETECTOR LOOP
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	TYPE III BARRICADE WITH FLASHING LIGHTS

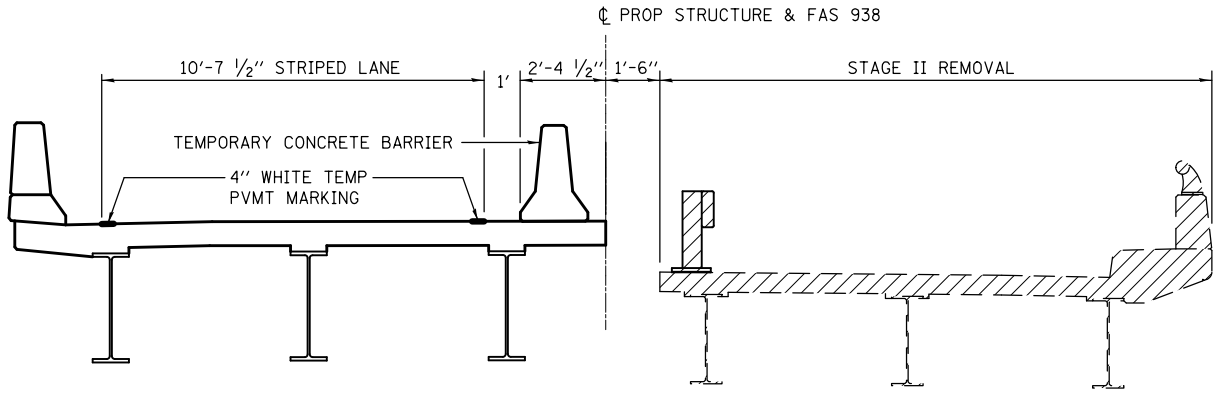
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SCALE: AS SHOWN	SHEET NO. 3 OF 8 SHEETS	STA. 71+00	TO STA. 83+00
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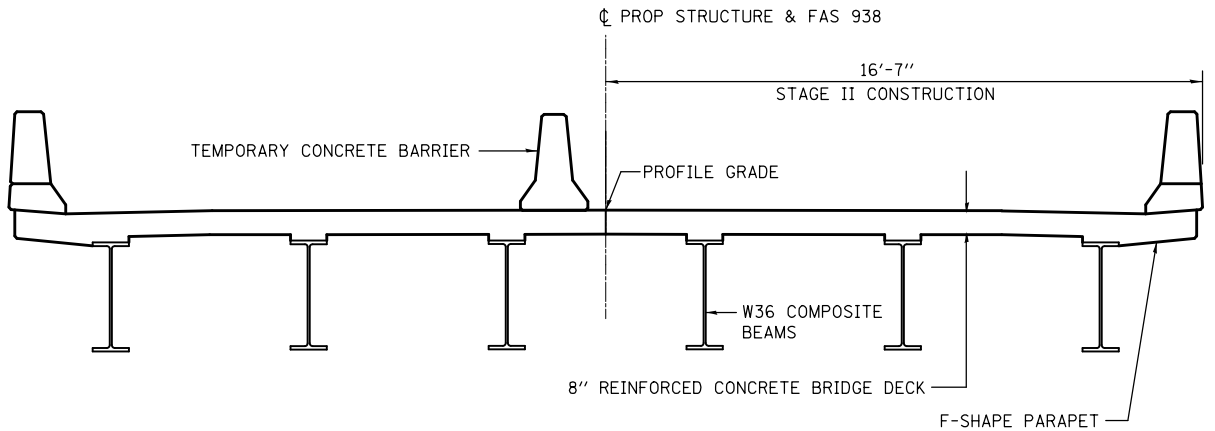
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57	(77-1-3)HB-2	PULASKI	92	29
		CONTRACT NO. 78454		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE II GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERCTED AS SHOWN AND PROTECTION AND PROTECTION STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. TEMPORARY RUMBLE STRIPS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED.
4. THE INTERSECTIONS SHALL BE MONITORED AND THE CYCLE LENGTH AND TIMING ADJUSTED IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION. BACKUPS OF RAMP TRAFFIC ONTO I-57 SHALL BE AVOIDED.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THIS SHEET SHALL BE 11'-0" FOR STAGE II CONSTRUCTION.
6. THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
7. THE TEMPORARY SIGNALS SHALL REMAIN IN OPERATION AND THE TEMPORARY BARRIERS SHALL REMAIN IN PLACE UNTIL THE BRIDGE, PCC PAVEMENT 10", PCC PAVEMENT CONNECTOR, APPROACH SLAB, HMA SHOULDERS, GUARDRAIL AND TRAFFIC BARRIER TERMINALS ARE COMPLETE FROM RT STA 74+95 TO RT STA 80+04.64. AFTER COMPLETION OF THE DESIGNATED WORK FROM RT STA 74+95 TO RT STA 80+04.64, THE TEMPORARY SIGNALS WILL BE EITHER REMOVED OR TURNED OFF AND COVERED AND THE TEMPORARY CONCRETE BARRIER REMOVED TO ALLOW COMPLETION OF THE STAGE III AND STAGE IV ROADWAY AS DETAILED ON SHEET NOS. 31 THROUGH 34.
8. THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED AS SPECIFIED IN SECTION 704 OF THE STANDARD SPECIFICATIONS. THE TEMPORARY CONCRETE BARRIER PLACED ON THE PROPOSED PCC PAVEMENT 10", APPROACH SLAB, PCC PAVEMENT CONNECTOR, AND BRIDGE DECK FROM STA 74+95 TO 80+04.64 SHALL BE RESTRAINED USING STEEL RETAINERS 1"x10"x10" SHOWN FOR DETAIL III ON SHEET NO. 52. THE STEEL RETAINERS SHALL BE PLACED ON 6'-0" CENTERS AND SECURED TO THE PAVEMENT BY PLACING TWO EACH 5/8" DIAMETER EXPANSION ANCHORS OR CAST IN PLACE INSERTS AT THE MID-DEPTH OF THE PAVEMENT. THE ANCHORS OR INSERTS SHALL HAVE A MINIMUM PROOF LOAD OF 5,000 POUNDS. THE COST OF PROVIDING THE RESTRAINING SYSTEM FOR THE TEMPORARY CONCRETE BARRIER ON TOP OF THE PCC PAVEMENT 10", APPROACH SLAB, PCC PAVEMENT CONNECTOR, AND BRIDGE DECK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE PER FOOT FOR TEMPORARY CONCRETE BARRIER.

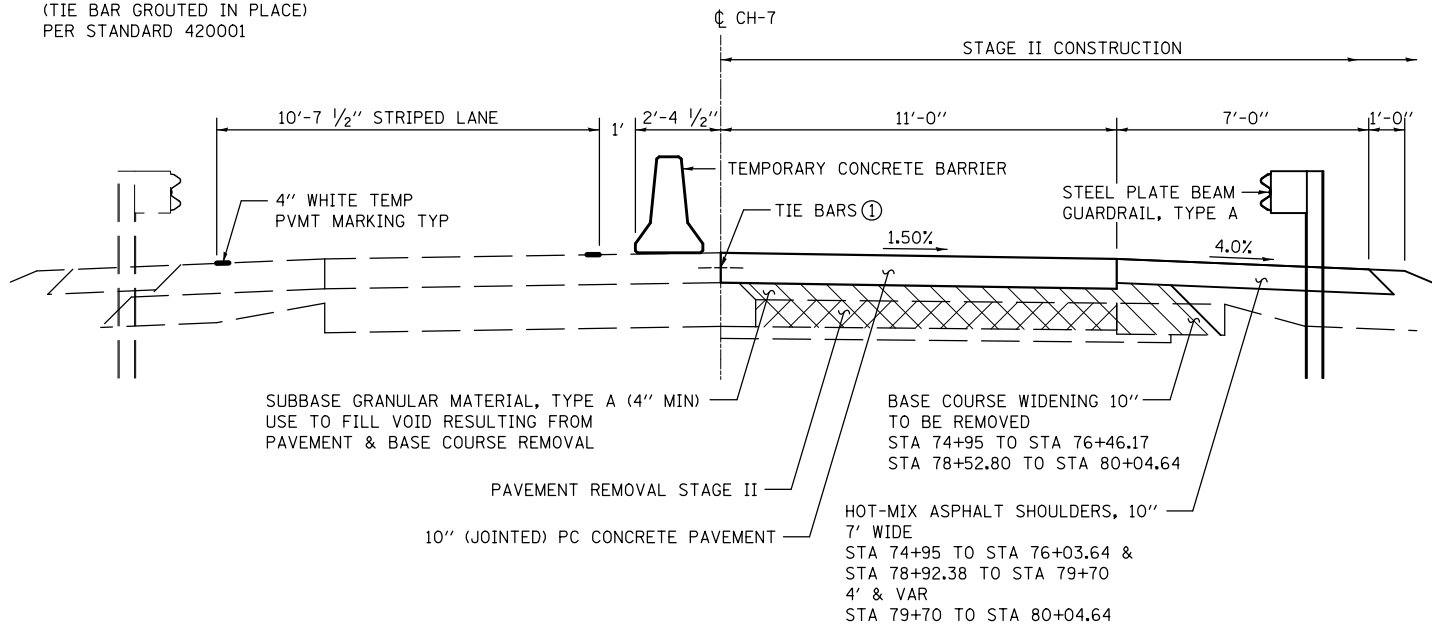


SECTION B-B BRIDGE REMOVAL



SECTION B-B BRIDGE CONSTRUCTION

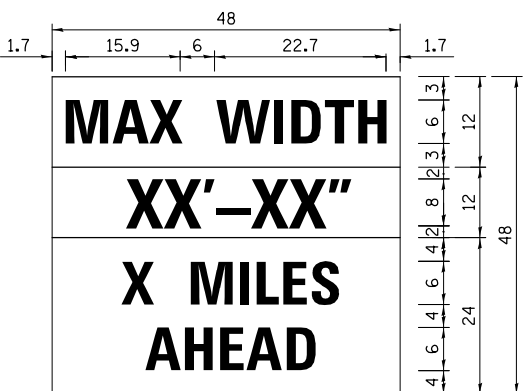
- ① LONGITUDINAL CONSTRUCTION JOINT
(TIE BAR GROUTED IN PLACE)
PER STANDARD 420001



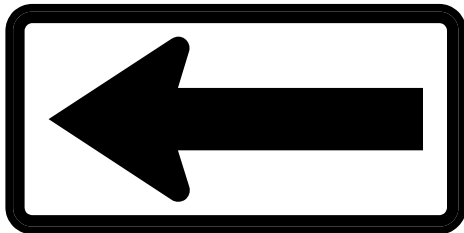
STAGE II ROADWAY

STA 74+95 TO STA 76+03.64

STA 78+92.38 TO STA 80+04.64

**W12-I103**

```
W12-I103 (Width is 8D);
No border, Black on White;
"MAX WIDTH" D;
No border, Black on Orange;
"XX-XX" D;
No border, Black on White;
"X MILES" D; "AHEAD" D
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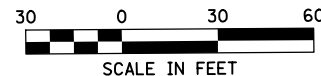
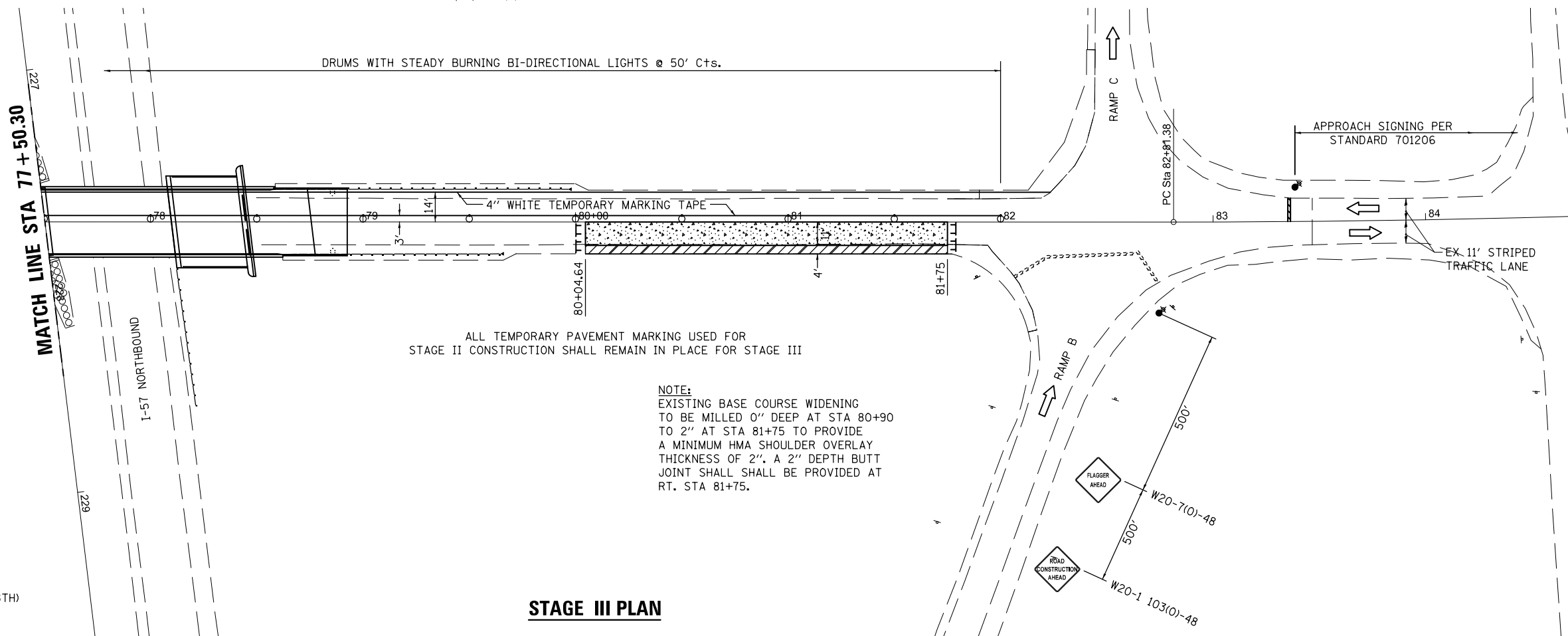
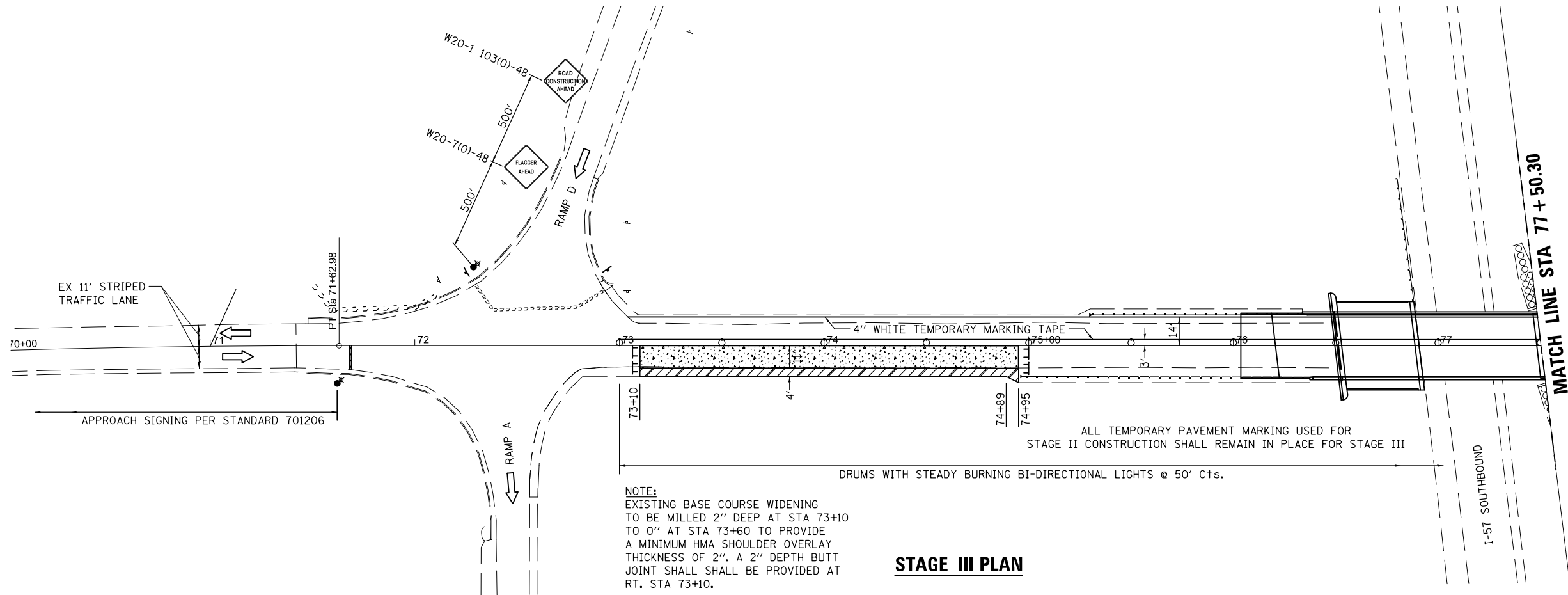


W1-6L(0)-4824

NOTE: THIS SIGN SHALL BE PLACED UNDERNEATH THE WIDTH RESTRICTION SIGNS (W12-I103) THAT ARE PLACED ON THE I-57 EXIT RAMPS (2 TOTAL).

NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE ON CH 7 AND FOR EACH EXIT RAMP (4 TOTAL).

WIDTH RESTRICTION SIGN



LEGEND

- DIRECTION OF TRAFFIC
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- FLAGGER WITH TRAFFIC CONTROL SIGN AND OVERHEAD LIGHT SOURCE
- HMA SHOULDERS (VARIABLE DEPTH)
- PCC PAVEMENT 10" (JOINTED) (HIGH-EARLY STRENGTH)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

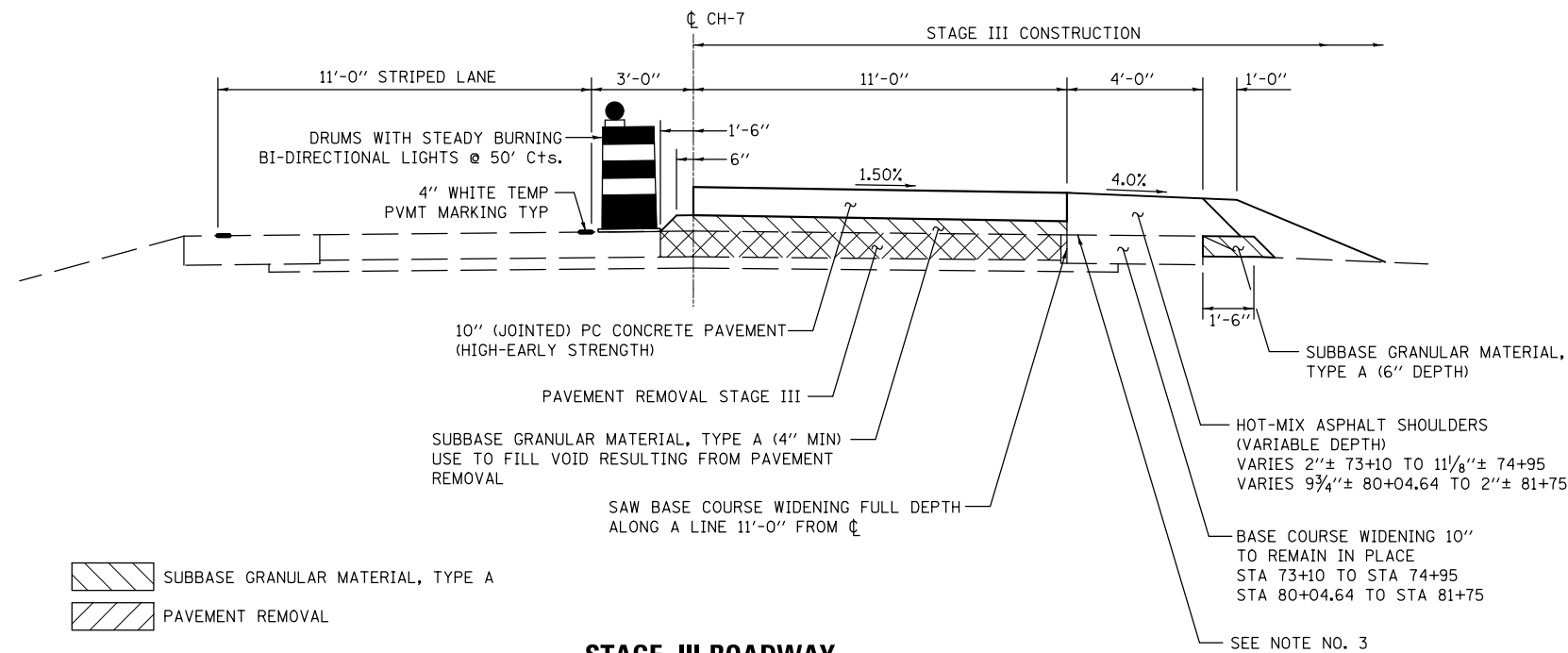
FAS 938 (CH 7) STAGE CONSTRUCTION DETAILS

SCALE: AS SHOWN SHEET NO. 5 OF 8 SHEETS STA. 71+00 TO STA. 83+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	31
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STAGE III GENERAL NOTES

1. TRAFFIC CONTROL STANDARD 701206 SHALL BE USED FOR STAGE III AND STAGE IV ROADWAY WORK. THE TRAFFIC CONTROL SHALL REMAIN IN PLACE FROM THE START OF STAGE III UNTIL THE WORK IN STAGE IV IS COMPLETE. ROAD CONSTRUCTION AHEAD AND FLAGGER AHEAD SIGNS SHALL BE PROVIDED FOR BOTH THE RAMP B AND RAMP D TRAFFIC. TRAFFIC CONTROL STANDARD 701206 SHALL BE USED TO CLOSE ONE LANE FROM STA 73+10 TO STA 81+75 AND FLAGGERS SHALL BE PRESENT AT ALL TIMES. NIGHT TIME WORK ZONE LIGHTING SHALL BE USED AND THE FLAGGER STATIONS WILL BE ILLUMINATED BY AN OVERHEAD LIGHT SOURCE IN ACCORDANCE WITH ARTICLE 701.13. THE TWO FLAGGERS SHOWN ON STANDARD 701206 SHALL BE PROVIDED AND A FLAGGER SHALL ALSO BE POSITIONED AT BOTH RAMP B AND RAMP D. A TOTAL OF FOUR FLAGGERS WILL BE REQUIRED AT ALL TIMES AND THEY SHALL BE IN DIRECT COMMUNICATION WITH ONE ANOTHER. DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHTS SHALL BE USED ON 50-FOOT CENTERS THROUGH THE TANGENT AREA.
2. THE STAGE III ROADWAY WORK SHALL BEGIN AFTER THE COMPLETION OF THE STAGE II CONSTRUCTION FROM RT STA 74+95 TO RT STA 80+04.64. PRIOR TO SHUTTING OFF THE TEMPORARY SIGNALS AND REMOVING THE TEMPORARY CONCRETE BARRIERS, TRAFFIC CONTROL STANDARD 701206 SHALL BE IN PLACE AND THE FLAGGERS PROVIDED. THE TEMPORARY BARRIERS WILL BE REPLACED BY DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHTS PLACED ON 50-FOOT CENTERS THROUGH THE TANGENT AREA. THE STAGE III ROADWAY WORK SHALL BE IN THE EASTBOUND LANE OF COUNTY HIGHWAY 7 FROM RT STA 73+10 TO RT STA 74+95 AND FROM RT STA 80+04.64 TO RT STA 81+75 AND INCLUDES THE REMOVAL OF THE EXISTING PAVEMENT; PLACEMENT OF SUBBASE GRANULAR MATERIAL; CONSTRUCTING THE PC CONCRETE PAVEMENT 10"; AND CONSTRUCTING THE HMA SHOULDERS ADJACENT TO THE NEW PAVEMENT.
3. THE EXISTING BASE COURSE WIDENING 10" SHALL BE SAWED FULL DEPTH AND PARTIALLY REMOVED TO PROVIDE A MINIMUM 11-FOOT PAVEMENT WIDTH FROM CENTERLINE TO THE PROPOSED EDGE OF PAVEMENT FROM RT STA 73+10 TO 74+95 AND FROM RT STA 80+04.64 TO 81+75. THE PROPOSED TOP OF PAVEMENT WILL BE A VARYING HEIGHT ABOVE THE TOP OF THE EXISTING BASE COURSE WIDENING. THE FORMWORK FOR THE PROPOSED PAVEMENT SHALL BE EITHER CONSTRUCTED TO A VARIABLE HEIGHT ABOVE THE EXISTING BASE COURSE WIDENING TO MEET THE PLAN ELEVATIONS OR THE BASE COURSE WIDENING SHALL BE REMOVED TO AN ADDITIONAL MINIMUM WIDTH OF 4 INCHES TO ALLOW FORMWORK FOR THE PROPOSED PAVEMENT ACCORDING TO THE DETAILS ON STANDARD 442101 (CLASS B PATCHING). THE VOID CREATED BY THE REMOVAL OF THE ADDITIONAL BASE COURSE WIDENING TO ALLOW FOR THE FORMWORK SHALL BE FILLED WITH HMA SHOULDER MATERIAL AFTER COMPLETION OF THE PROPOSED PAVEMENT AND FORM REMOVAL.
4. THE ADVANCE WIDTH RESTRICTION WARNING SIGNS ERECTED FOR STAGE II SHALL REMAIN IN PLACE FOR STAGE III AND STAGE IV ROADWAY WORK. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGNS SHALL BE 11'- 0".
5. THE P.C. CONCRETE PAVEMENT CONSTRUCTED UNDER STAGE III AND STAGE IV SHALL BE 10" JOINTED HIGH-EARLY STRENGTH P.C. CONCRETE PAVEMENT. THE CONCRETE MIXTURE SHALL USE A CLASS PP CONCRETE CRITERIA AND SHALL BE CONSTRUCTED ACCORDING TO THE SPECIAL PROVISION FOR HIGH-EARLY STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10".



STAGE III ROADWAY
STA 73+10 TO STA 74+95
STA 80+04.64 TO STA 81+75

STAGE IV GENERAL NOTES

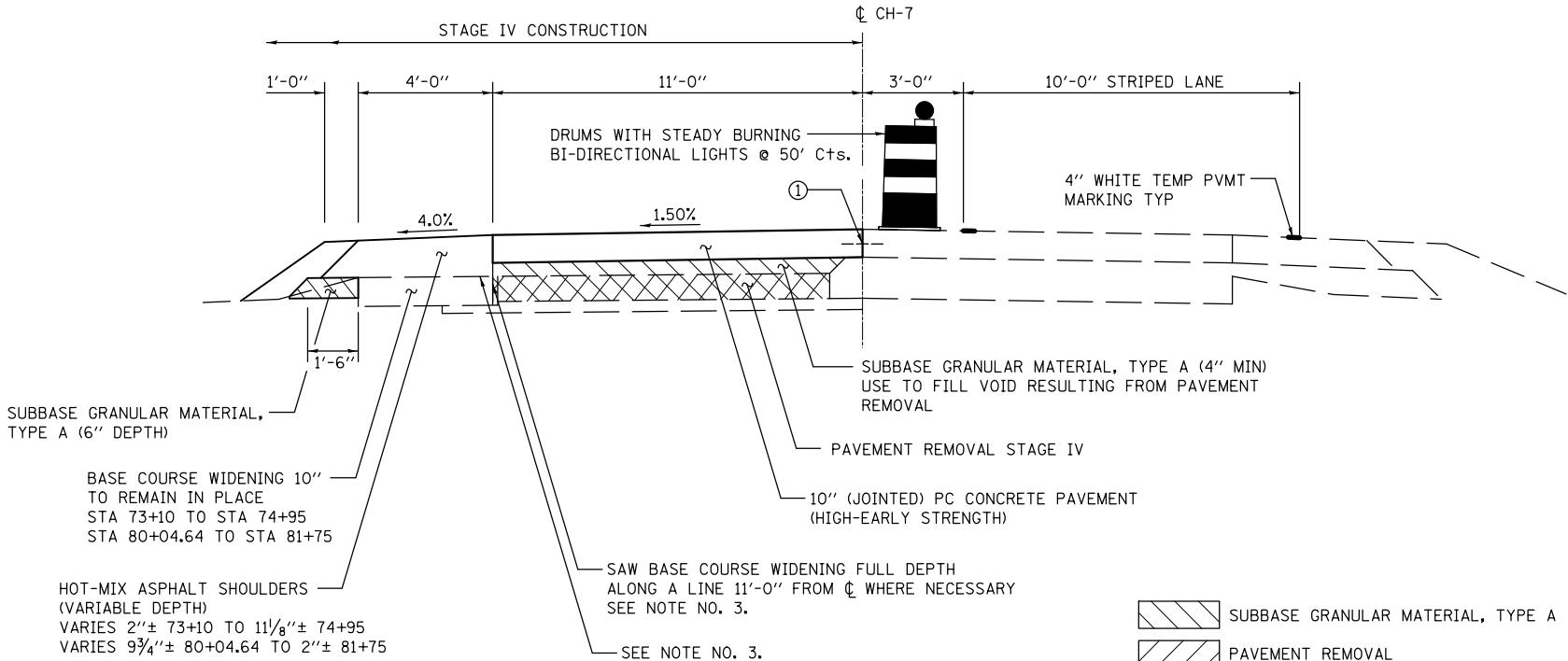
1. TRAFFIC CONTROL STANDARD 701206 SHALL BE USED FOR STAGE III AND STAGE IV ROADWAY WORK. THE TRAFFIC CONTROL SHALL REMAIN IN PLACE FROM THE START OF STAGE III UNTIL THE WORK IN STAGE IV IS COMPLETE. ROAD CONSTRUCTION AHEAD AND FLAGGER AHEAD SIGNS SHALL BE PROVIDED FOR BOTH THE RAMP B AND RAMP D TRAFFIC. TRAFFIC CONTROL STANDARD 701206 SHALL BE USED TO CLOSE ONE LANE FROM STA 73+10 TO STA 81+75 AND FLAGGERS SHALL BE PRESENT AT ALL TIMES. NIGHT TIME WORK ZONE LIGHTING SHALL BE USED. THE FLAGGER STATIONS WILL BE ILLUMINATED BY AN OVERHEAD LIGHT SOURCE IN ACCORDANCE WITH ARTICLE 701.13. THE TWO FLAGGERS SHOWN ON STANDARD 701206 SHALL BE PROVIDED AND A FLAGGER SHALL ALSO BE POSITIONED AT BOTH RAMP B AND RAMP D. A TOTAL OF FOUR FLAGGERS WILL BE REQUIRED AT ALL TIMES AND THEY SHALL BE IN DIRECT COMMUNICATION WITH ONE ANOTHER. DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHTS SHALL BE USED ON 50-FOOT CENTERS THROUGH THE TANGENT AREA.
2. THE STAGE IV ROADWAY WORK SHALL BEGIN IMMEDIATELY AFTER THE COMPLETION OF THE STAGE III ROADWAY WORK. THE STAGE IV ROADWAY WORK SHALL BE IN THE WESTBOUND LANE OF COUNTY HIGHWAY 7 FROM LT STA 73+10 TO LT STA 74+95 AND FROM LT STA 80+04.64 TO LT STA 81+75 AND INCLUDES THE REMOVAL OF THE EXISTING PAVEMENT AND THE EXISTING TEMPORARY RAMPS; PLACEMENT OF SUBBASE GRANULAR MATERIAL; CONSTRUCTING THE PC CONCRETE PAVEMENT 10"; AND CONSTRUCTING THE HMA SHOULDERS ADJACENT TO THE NEW PAVEMENT.

3. THE EXISTING BASE COURSE WIDENING 10" SHALL BE SAWED FULL DEPTH AND PARTIALLY REMOVED TO PROVIDE A MINIMUM 11-FOOT PAVEMENT WIDTH FROM CENTERLINE TO THE PROPOSED EDGE OF PAVEMENT FROM LT STA 73+10 TO 73+90, LT STA 74+38 TO 74+85, LT STA 80+04.64 TO 80+81 AND LT STA 81+53 TO 81+75. THE PROPOSED TOP OF PAVEMENT WILL BE A VARYING HEIGHT ABOVE THE TOP OF THE EXISTING BASE COURSE WIDENING. THE FORMWORK FOR THE PROPOSED PAVEMENT SHALL BE EITHER CONSTRUCTED TO A VARIABLE HEIGHT ABOVE THE EXISTING BASE COURSE WIDENING TO MEET THE PLAN ELEVATIONS OR THE BASE COURSE WIDENING SHALL BE REMOVED TO AN ADDITIONAL MINIMUM WIDTH OF 4 INCHES TO ALLOW FORMWORK FOR THE PROPOSED PAVEMENT ACCORDING TO THE DETAILS ON STANDARD 442101 (CLASS B PATCHING). THE VOID CREATED BY THE REMOVAL OF THE ADDITIONAL BASE COURSE WIDENING TO ALLOW FOR THE FORMWORK SHALL BE FILLED WITH HMA SHOULDER MATERIAL AFTER COMPLETION OF THE PROPOSED PAVEMENT AND FORM REMOVAL.

THE WIDTH FROM CENTERLINE TO THE EDGE OF THE EXISTING BASE COURSE WIDENING 10" VARIES FROM 11'-0" TO 11'-2" FOR THE REMAINING STAGE IV PAVEMENT AREAS. THE FORMWORK FOR THE PROPOSED PAVEMENT SHALL BE EITHER CONSTRUCTED TO A VARIABLE HEIGHT ABOVE THE EXISTING BASE COURSE WIDENING TO MEET THE PLAN ELEVATIONS AND EDGE OF PAVEMENT OFFSET AND PORTLAND CEMENT CONCRETE POURED UNDER THE FORMWORK TO THE EDGE OF THE EXISTING BASE COURSE; OR, THE BASE COURSE WIDENING SHALL BE REMOVED TO A MINIMUM WIDTH OF 11'-4" FROM CENTERLINE TO ALLOW FORMWORK FOR THE PROPOSED PAVEMENT ACCORDING TO THE DETAILS ON STANDARD 442101 (CLASS B PATCHING). THE VOID CREATED BY THE REMOVAL OF THE ADDITIONAL BASE COURSE WIDENING TO ALLOW FOR THE FORMWORK SHALL BE FILLED WITH HMA SHOULDER MATERIAL AFTER COMPLETION OF THE PROPOSED PAVEMENT AND FORM REMOVAL.

4. THE ADVANCE WIDTH RESTRICTION WARNING SIGNS ERECTED FOR STAGE II SHALL REMAIN IN PLACE FOR STAGE III AND STAGE IV ROADWAY WORK. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGNS SHALL BE 11'- 0".
5. THE P.C. CONCRETE PAVEMENT CONSTRUCTED UNDER STAGE III AND STAGE IV SHALL BE 10" JOINTED HIGH-EARLY STRENGTH P.C. CONCRETE PAVEMENT. THE CONCRETE MIXTURE SHALL USE A CLASS PP CONCRETE CRITERIA AND SHALL BE CONSTRUCTED ACCORDING TO THE SPECIAL PROVISION FOR HIGH-EARLY STRENGTH CONCRETE PAVEMENT 10".

① LONGITUDINAL CONSTRUCTION JOINT
(TIE BAR GROUTED IN PLACE)
PER STANDARD 420001



STAGE IV ROADWAY
STA 73+10 TO STA 74+95
STA 80+04.64 TO STA 81+75

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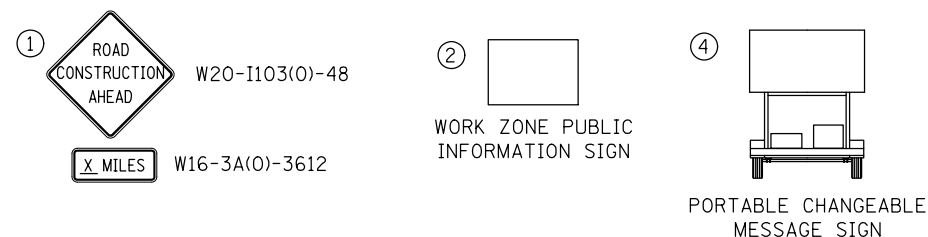
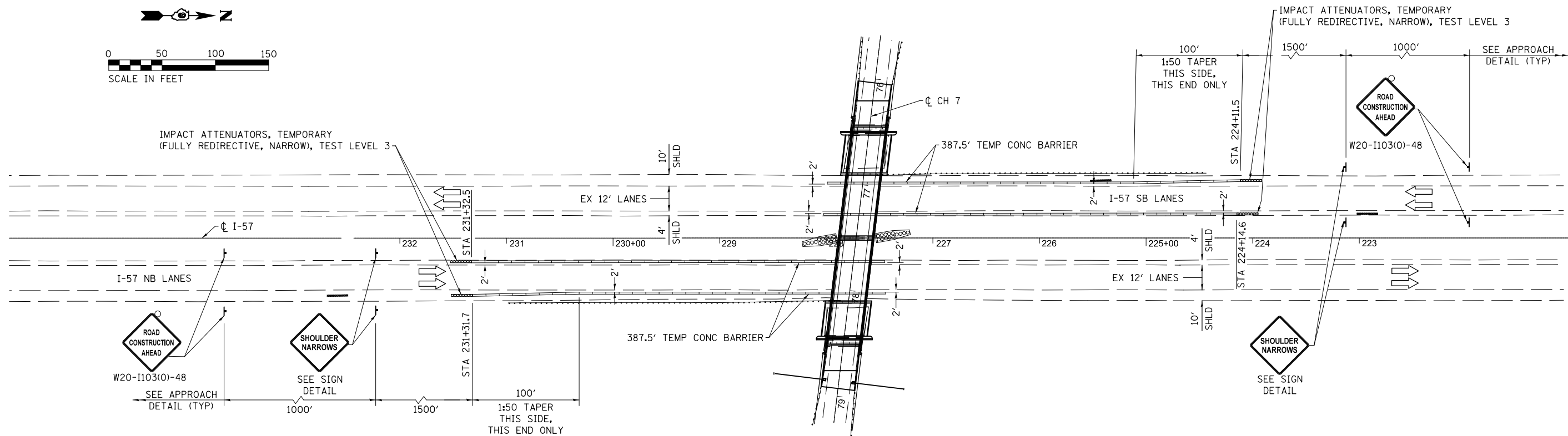
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS 938 (CH 7) STAGE CONSTRUCTION DETAILS

SCALE: NONE SHEET NO. 8 OF 8 SHEETS STA. 71+00 TO STA. 83+00

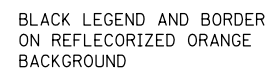
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



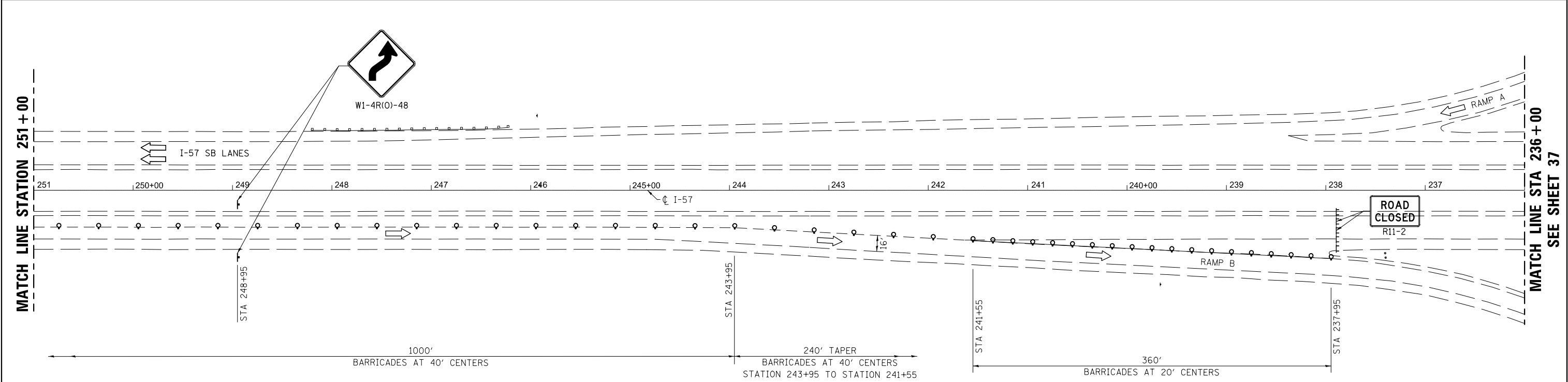
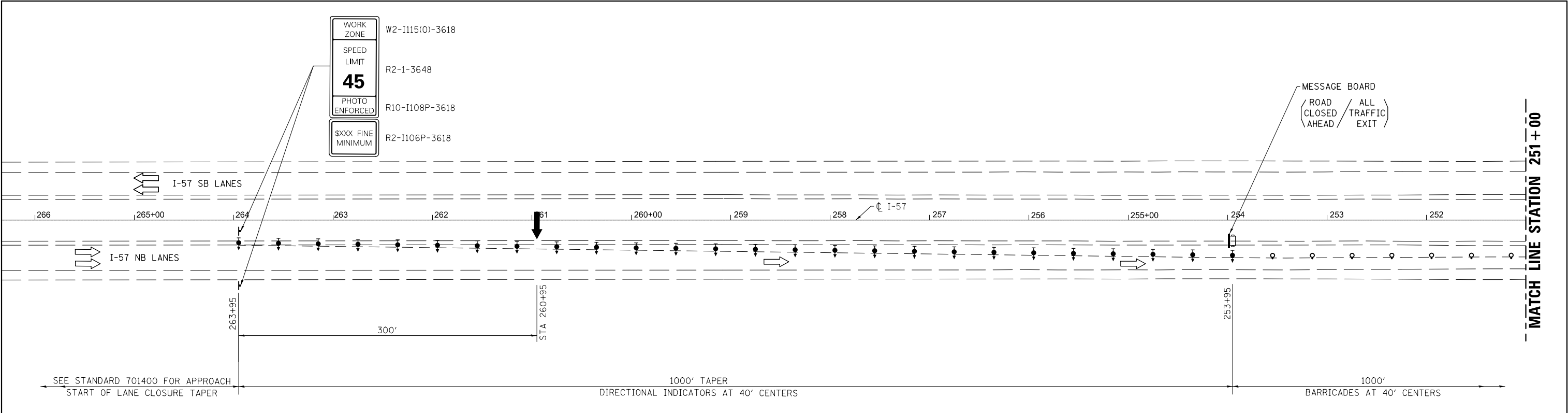
- ① AN ADVANCE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.

④ THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:

	TRAILER MOUNTED SIGN
	SIGN
	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT



1. ALL TRAFFIC SIGNS SHALL BE POST MOUNTED.
2. ALL TRAFFIC SIGNS ARE REQUIRED TO MEET ARTICLES 1106.01 & 1106.02 OF THE STANDARD SPECIFICATIONS.
3. ONE TYPE A LOW INTENSITY FLASHING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE ROAD CONSTRUCTION AHEAD WARNING SIGNS.
4. THE APPROACH SIGNS AND MESSAGE BOARDS SHALL BE LOCATED SO THEY WILL BE IN PROPER POSITION FOR THE I-57 TEMPORARY CLOSURE.
5. TEMPORARY CONCRETE BARRIER WILL BE IN ACCORDANCE WITH STANDARD 704001 AND WILL BE PAID FOR SEPERATELY.
6. BARRIER WALL REFLECTORS, TYPE C, SHALL BE INSTALLED ON THE TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH STANDARD 704001 AND 782006.
7. TEMPORARY IMPACT ATTENUATORS WILL BE PAID FOR SEPERATELY.
8. UNLESS NOTED AS PAID FOR SEPERATELY, ALL TRAFFIC CONTROL WORK SHOWN ON THIS DETAIL SHALL BE INCLUDED IN THE CONTRACT UNIT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

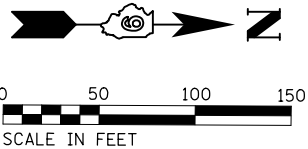


I-57 NORTHBOUND TEMPORARY CLOSURE PLAN

LEGEND

- DIRECTIONAL INDICATOR BARRICADE WITH LIGHT
- TYPE II BARRICADE OR DRUM WITH LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN AND OVERHEAD LIGHT SOURCE
- TYPE III BARRICADE WITH FLASHING LIGHTS
- PORTABLE CHANGEABLE MESSAGE SIGN
- ARROW BOARD
- SIGN

NOTE: SEE SHEET NO. 37 FOR GENERAL NOTES.



PRINT DRIVER = L:\01667\17\170818\170818.dgn
PLOT SCALE = 0.1667" / 1' = 1/6"



USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1295.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667" / 1' = 1/6"	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018 7:58:18 AM	DATE - 08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-57 TRAFFIC CONTROL TEMPORARY CLOSURE			
SCALE: 1"=50'	SHEET NO. 1 OF 2 SHEETS	STA. 266+00	TO STA. 236+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	36
CONTRACT NO. 78454				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA 236+00
SEE SHEET 36

FLAGGER WILL BE POSITIONED
AT WEST END OF CH 7 STAGE
CONSTRUCTION FOR CH 7 STAGE
CONSTRUCTION TRAFFIC.

CONSTRUCTION ZONE WITH EITHER
STAGE I OR STAGE II TRAFFIC CONTROL
IN PLACE. MAINTAIN ONE LANE OF
TRAFFIC ON COUNTY HIGHWAY 7
AT ALL TIMES.



W20-7(0)-48
COVER THE SIGNAL AHEAD SIGN
WITH A FLAGGER SIGN AND PLACE
AN ADDITIONAL FLAGGER AHEAD
SIGN FOR A DUAL DISPLAY

500' IN ADVANCE
OF STOP BAR

I-57 NB EXIT RAMP B

FLAGGER FOR
RAMP TRAFFIC

FLAGGER FOR CH 7
STAGE CONSTRUCTION



W20-7(0)-48

COVER SIGNAL AHEAD SIGN
REPLACE WITH FLAGGER SIGN

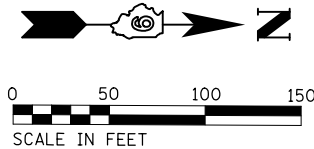


I-57 NB LANES

GENERAL NOTES

1. THE TRAFFIC CONTROL PLAN SHOWN IS FOR THE NORTHBOUND LANES OF I-57 AND RAMP B AND C. THE TRAFFIC CONTROL FOR THE SOUTHBOUND LANES OF I-57 AND RAMP D AND A IS NOT SHOWN, BUT WILL HAVE SIMILAR TAPER AND BARREL LENGTH PLACEMENT.
2. THE TEMPORARY CLOSURE OF I-57 WILL BE LIMITED TO THE HOURS AND DAYS OF THE WEEK AS DESCRIBED IN THE SPECIAL PROVISIONS.
3. THE TEMPORARY BRIDGE SIGNALS SHALL BE TURNED OFF DURING ANY I-57 TEMPORARY CLOSURE. THE SIGNAL SIGNS ON CH 7 AND RAMP APPROACHES SHALL BE COVERED AND FLAGGER SIGNS SHALL BE ERECTED. THE "STOP HERE ON RED" SIGNS SHALL BE COVERED. TWO FLAGGERS SHALL CONTROL TRAFFIC THROUGH THE COUNTY HIGHWAY 7 STAGE CONSTRUCTION. A FLAGGER WILL ALSO BE PLACED FOR THE RAMP B OR THE RAMP D TRAFFIC DEPENDING ON WHETHER THE NB LANES OR SB LANES OF I-57 ARE CLOSED. THE RAMP TRAFFIC MOVEMENT SHALL BE COORDINATED WITH THE COUNTY HIGHWAY 7 TRAFFIC TO AVOID CONFLICTS AND ALL FLAGGERS SHALL BE IN DIRECT COMMUNICATION WITH ONE ANOTHER.
4. NIGHTTIME WORK ZONE LIGHTING SHALL BE USED FOR CONSTRUCTION. THE FLAGGER WILL BE ILLUMINATED BY AN OVERHEAD LIGHT SOURCE IN ACCORDANCE WITH ARTICLE 701.13 OF THE STANDARD SPECIFICATIONS.
5. SEE HIGHWAY STANDARD 701401 FOR ADDITIONAL TRAFFIC CONTROL AND PROTECTION.
6. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
7. ALL TRAFFIC CONTROL SHOWN ON THIS DETAIL, EXCEPT NIGHTTIME WORK ZONE LIGHTING, SHALL BE PAID FOR AT THE CONTRACT UNIT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

I-57 RAMP B AND CH 7 INTERSECTION PLAN



LEGEND

- DIRECTIONAL INDICATOR BARRICADE WITH LIGHT
- TYPE II BARRICADE OR DRUM WITH LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN AND OVERHEAD LIGHT SOURCE
- TYPE III BARRICADE WITH FLASHING LIGHTS
- PORTABLE CHANGEABLE MESSAGE SIGN
- ARROW BOARD
- SIGN

PRINT DRIVER = L:\06-2018\1295-09\1295-09.dgn
PLOT NAME = 1295-09.dgn
SCALE = 1"=50'



USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1295.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018 7:58:18 AM	DATE - 08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-57 TRAFFIC CONTROL
TEMPORARY CLOSURE

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. 242+00 TO STA. 227+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	37
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PRINT DRIVER = L:\ESCA\Bldg\Bldg.dgn
PLOT DATE = 12/11/2018 7:58:20 AM
SCALE NAME = 0:2' = 1" / in.
PLOT SCALE = 0:2' = 1" / in.



USER NAME = kjk
ESCA PROJECT NO. 1259.09
PLOT SCALE = 0:2' = 1" / in.
PLOT DATE = 12/11/2018 7:58:20 AM

DESIGNED - JHM
DRAWN - JHM
CHECKED - JMS
DATE - 08/18

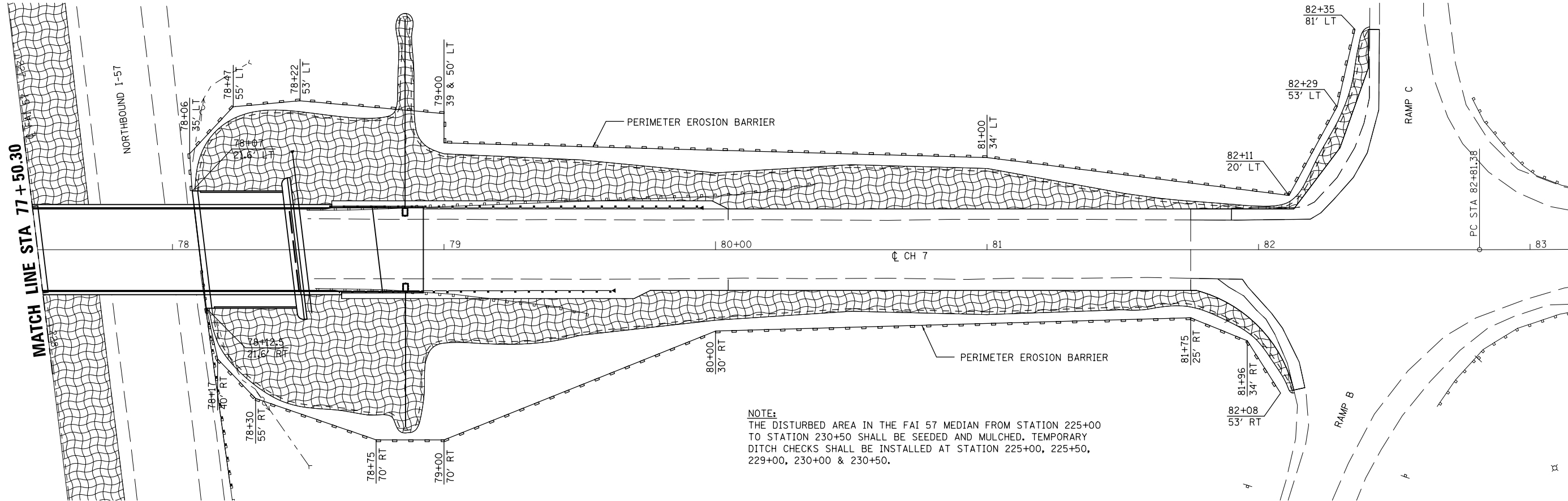
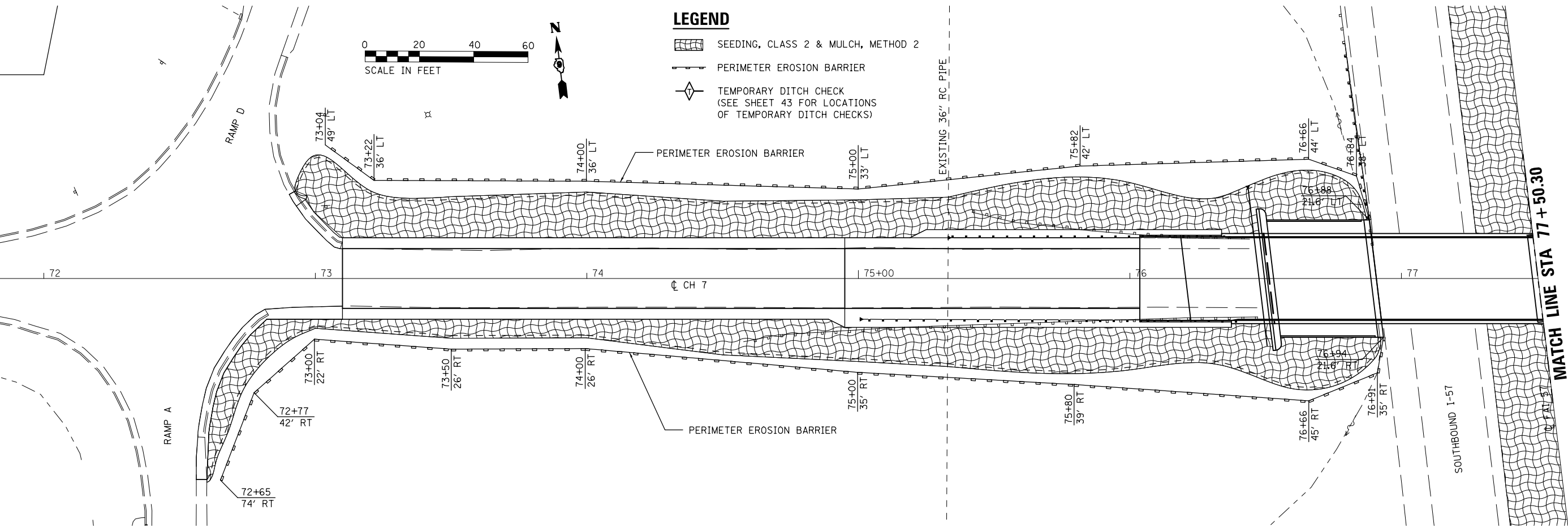
REVISED -
REVISED -
REVISED -
REVISED -

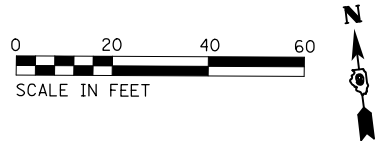
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 72+00.00 TO STA. 83+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	38
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

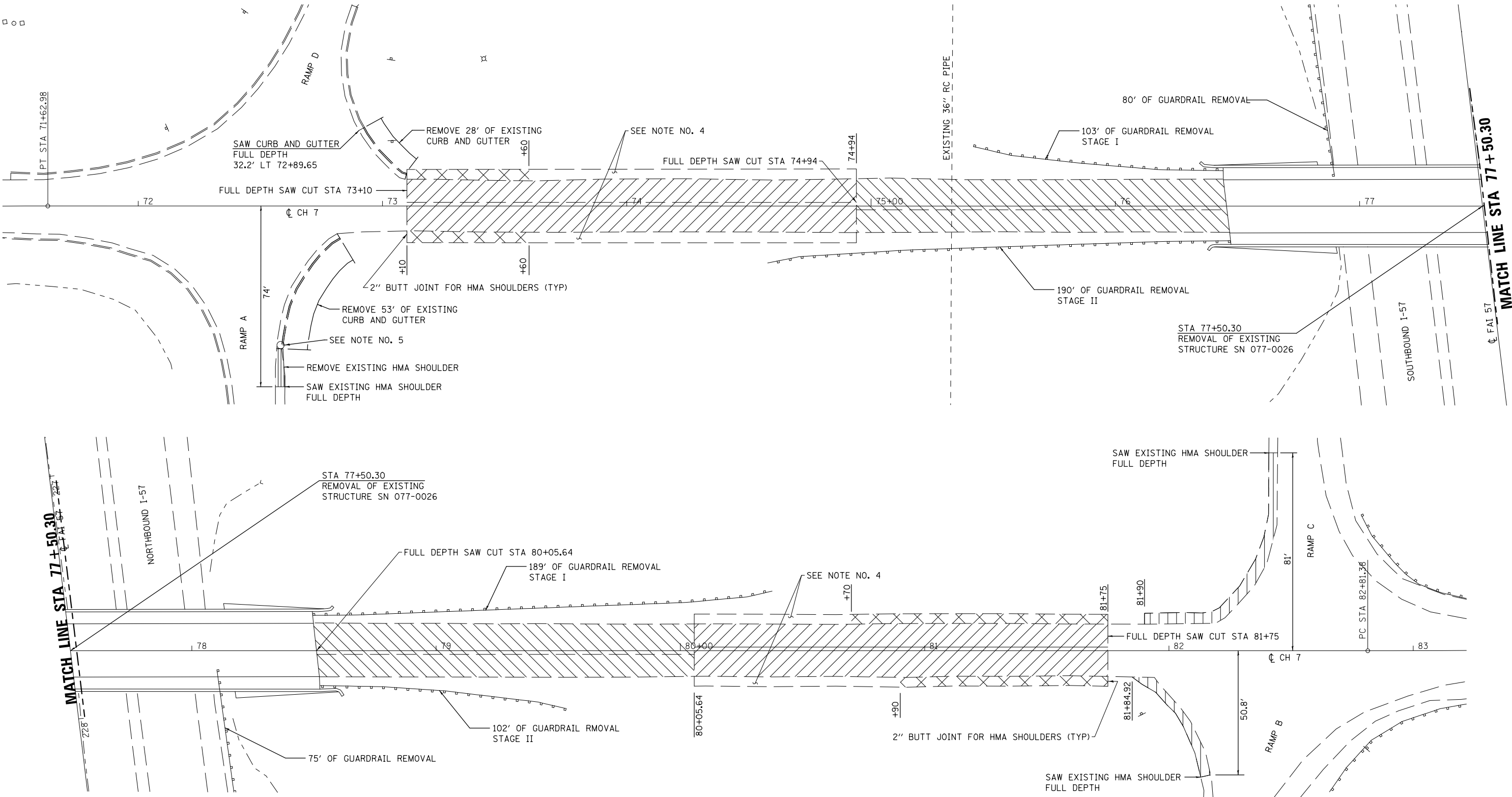




LEGEND

- PAVEMENT REMOVAL STAGE I AND STAGE II
- PAVEMENT REMOVAL STAGE III AND STAGE IV
- PAVED SHOULDER REMOVAL PRE-STAGE I
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL) STAGE III AND STAGE IV

- NOTES:
1. THE COMBINATION CONCRETE CURB AND GUTTER REMOVAL SHALL BE DONE DURING PRE-STAGE I.
 2. THE EXISTING IMPACT ATTENUATORS AND ATTENUATOR PADS IN THE I-57 MEDIAN SHALL BE REMOVED DURING THE STAGE I PIER REMOVAL.
 3. EXISTING REINFORCED BRIDGE APPROACH PAVEMENT SHALL BE REMOVED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR PAVEMENT REMOVAL.
 4. BASE COURSE WIDENING 10" CONSTRUCTED IN PRE-STAGE I THAT WILL BE OVERLAID WITH HMA SHOULDERS DURING STAGE III AND STAGE IV.
 5. THE EXISTING CATCH BASIN SHALL BE FILLED TO MAINTAIN FLOW ACCORDING TO SECTION 605 OF THE STANDARD SPECIFICATIONS. THE EXISTING EARTH SHOULDER ADJACENT TO THE PROPOSED HMA SHOULDERS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE.



PRINT DRIVER = L:\06\Bates\175
SOURCE NAME = I:\06\Bates\175
PLOT SCALE = 1/8\"/>



USER NAME = kjk
ESCA PROJECT NO. 1259.09
PLOT SCALE = 0.2' / 1\"/>

DESIGNED - JHM
DRAWN - JHM
CHECKED - JMS
DATE - 08/18

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

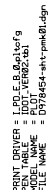
REMOVAL PLAN

SCALE: 1"=20'-0" SHEET NO. 1 OF 1 SHEETS STA. 73+00.00 TO STA. 83+00.00

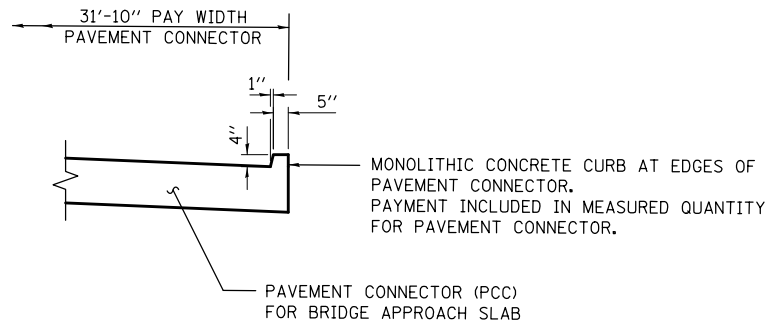
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	39
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

1	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE)	◆ RAISED REFLECTIVE PAVEMENT MARKER (AMBER BI-DIRECTIONAL)
2	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)	
3	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW)	
4	MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE)	

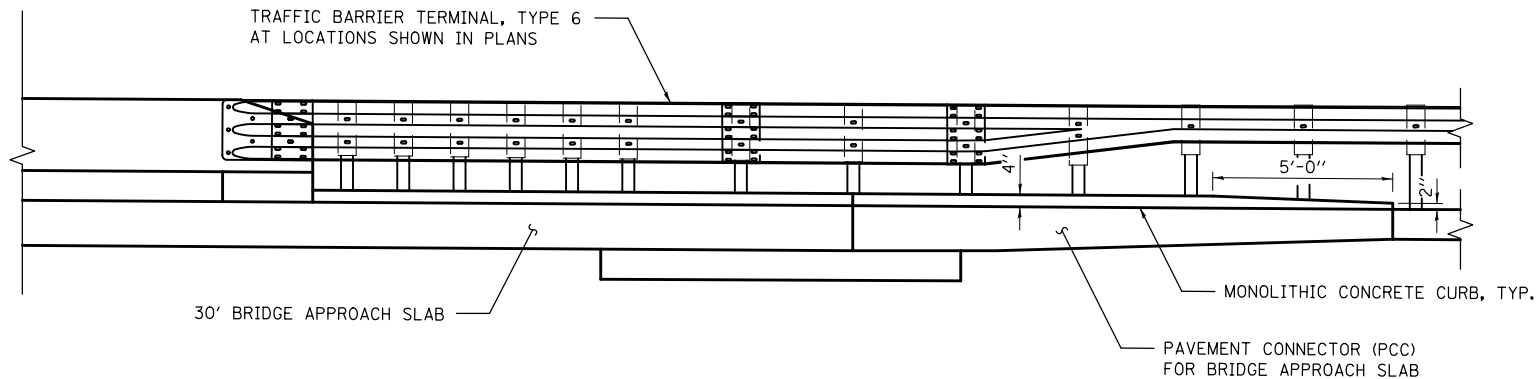
1. SEE SCHEDULE OF QUANTITIES SHEETS FOR PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKER QUANTITIES.
2. SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS NOT SHOWN ON THIS SHEET.
3. SEE HIGHWAY STANDARD 781001 FOR RAISED REFLECTIVE PAVEMENT MARKER DETAILS.
4. THE STOP BARS AT EXIT RAMP B AND EXIT RAMP D SHALL BE REPLACED TO MATCH THE EXISTING.



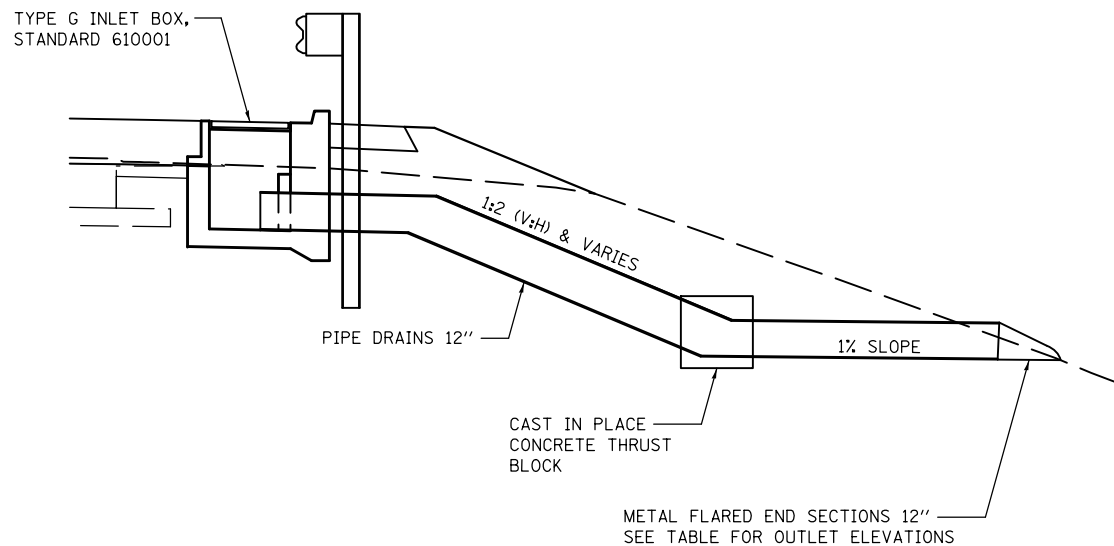
USER NAME = k.jk	DESIGNED - JHM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS 938 (CH 7) PAVEMENT MARKING			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ESCA PROJECT NO. 1295.09	DRAWN - JHM	REVISED -					57	(77-1-3)HB-2	PULASKI	92	40
PLOT SCALE = 0'2" '1' / in.	CHECKED - JMS	REVISED -		CONTRACT NO. 78454							
PLOT DATE = 12/11/2018 7:58:22 AM	DATE - 08/18	REVISED -		SCALE: 1" = 30'	SHEET NO. 1 OF 1 SHEETS	STA. 72+00 TO STA. 83+00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION B-B



SECTION A-A

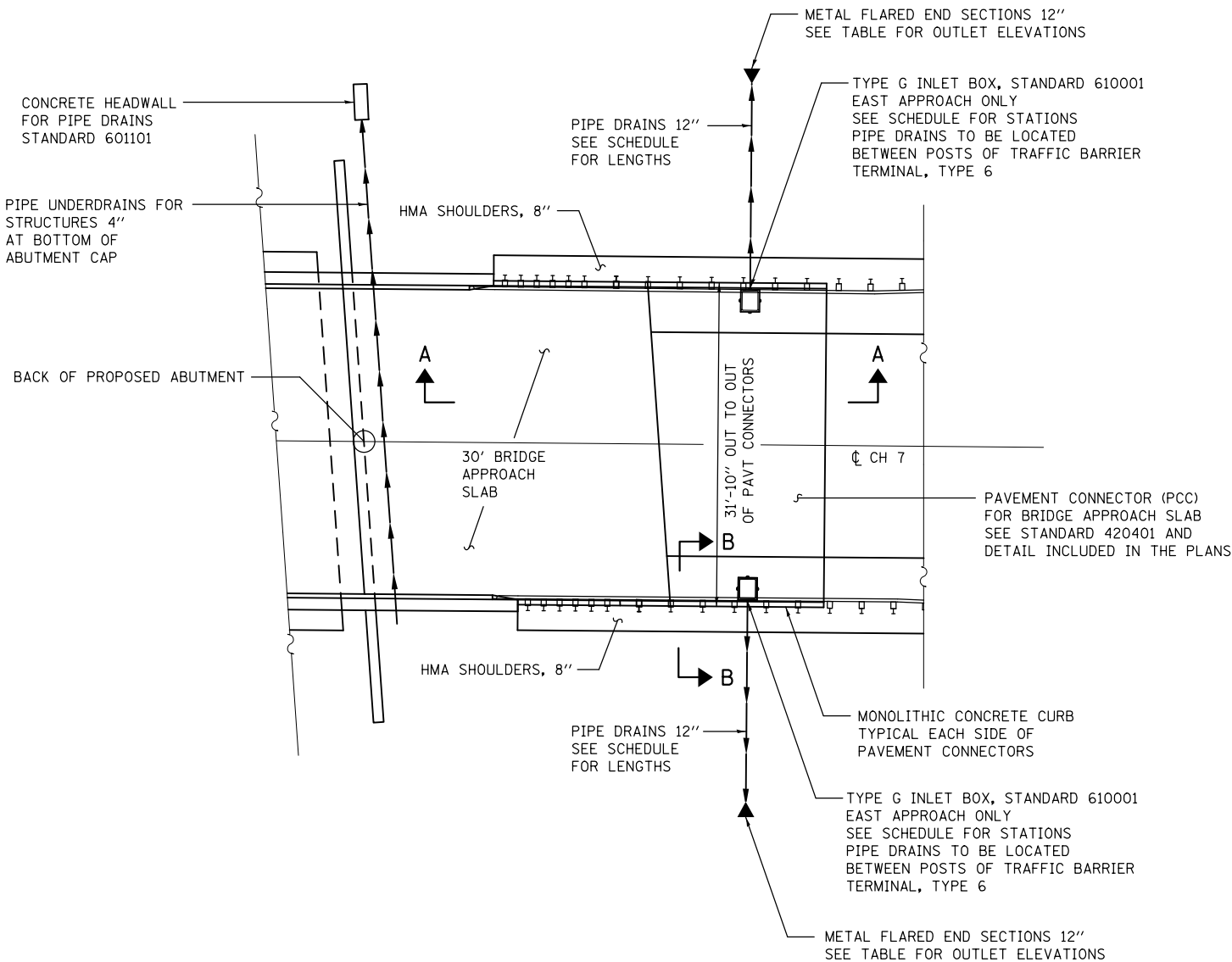


SECTION AT TYPE G INLET BOX

PAVEMENT CONNECTOR (PCC) DRAINAGE SCHEDULE						
LOCATION			TYPE G INLET BOX, STD. 610001	CONCRETE THRUST BLOCKS	PIPE DRAINS 12"	METAL FLARED END SECTIONS 12"
STATION	LANE	OFFSET	EACH	EACH	FOOT	EACH
78+85.74	WBL	LEFT	1	1	69	1
78+85.10	EBL	RIGHT	1	1	57	1
TOTALS			2	2	126	2

OUTLET ELEVATION TABLE			
LOCATION			OUTLET ELEVATION
STATION	LANE	OFFSET	
78+85.74	WBL	79.24' LT	338.83
78+85.10	EBL	66.38' RT	340.31

OFFSET AND ELEVATION SHOWN IS TO THE
OUTSIDE OF THE END SECTION



PLAN

PRINT DRIVER = L:\06-08-2018\78454\78454.dgn
PLOT SCALE = 1/8" = 1'-0"
PLOT DATE = 12/11/2018



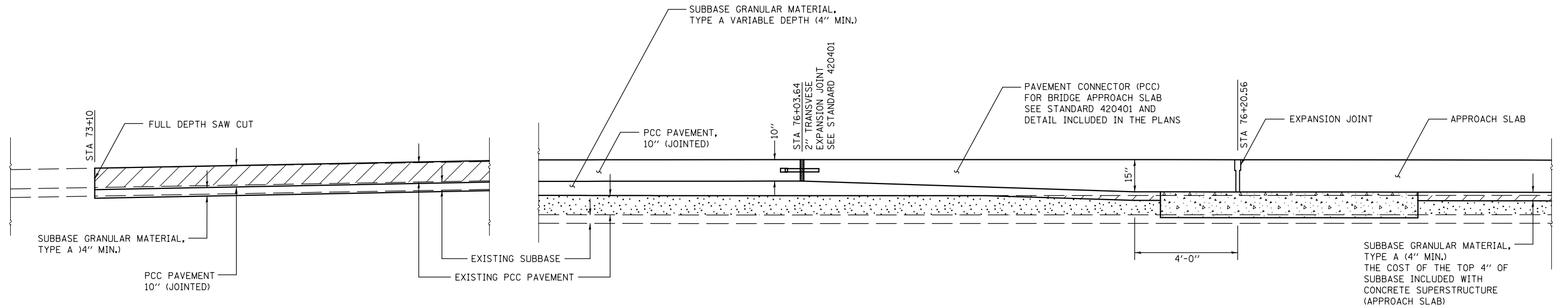
USER NAME = kjk	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1259.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT CONNECTOR DETAILS

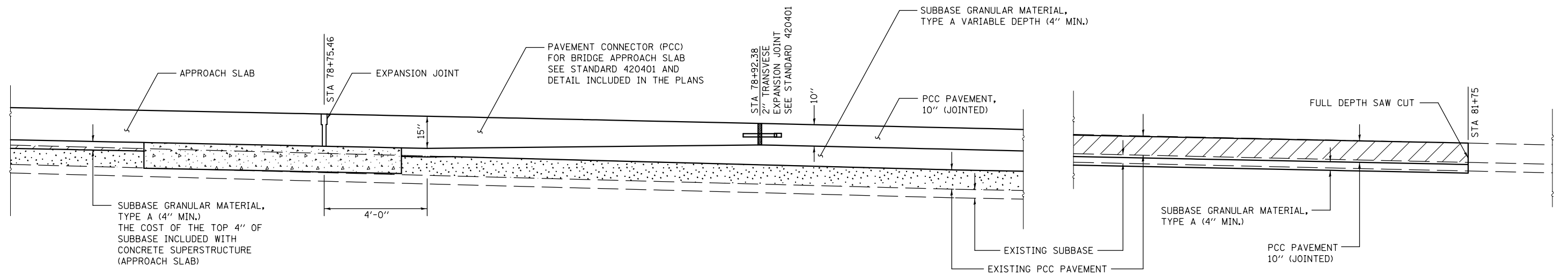
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	41
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LONGITUDINAL SECTION

FAS 938 (CH 7) STA 73+10 TO STA 76+20.56



LONGITUDINAL SECTION

FAS 938 (CH 7) STA 78+75.46 TO STA 81+75

LEGEND

- PCC PAVEMENT REMOVAL
- PCC PAVEMENT REMOVAL AND SUBBASE GRANULAR MATERIAL, TYPE A TO FILL THE VOID
- APPROACH FOOTING

PRINT DRIVER = L:\E:\Bates\79
SOURCE NAME = PLOT
SCALE NAME = C:\Users\johndoe\Documents\ESCA.dgn



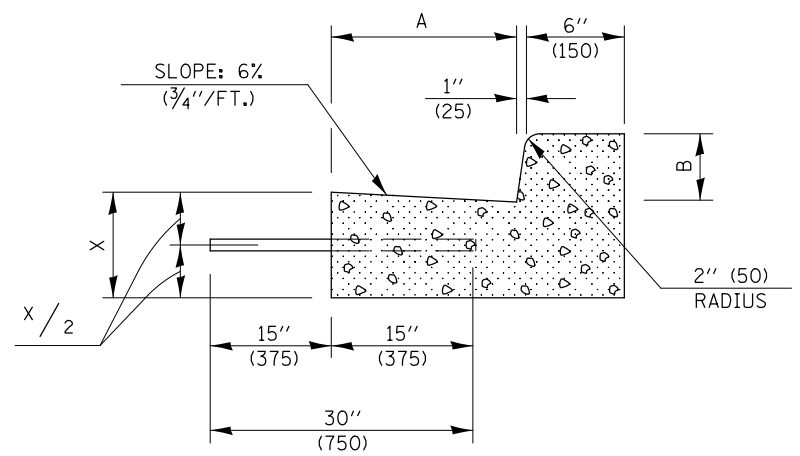
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ESCA PROJECT NO. 1259.09	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT TRANSITION DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 73+10 TO STA. 81+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	42
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



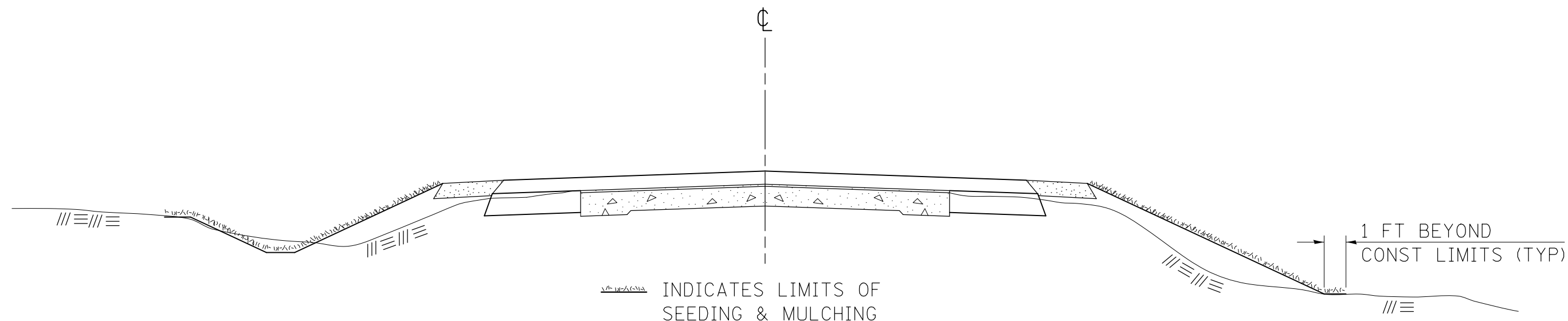
SECTION B-B

GENERAL NOTES

- | | B-6,I2
(B-15,30) | | B-9,I2
(B-22,30) | | B-6,I8
(B-15,45) | | B-9,I8
(B-22,45) | | B-6,24
(B-15,60) | | B-9,24
(B-22,60) | |
|--|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|
| A | 12''
(300) | 12''
(300) | 12''
(300) | 12''
(300) | 18''
(450) | 18''
(450) | 18''
(450) | 18''
(450) | 24''
(600) | 24''
(600) | 24''
(600) | 24''
(600) |
| B | 6''
(150) | 6''
(150) | 9''
(225) | 9''
(225) | 6''
(150) | 6''
(150) | 9''
(225) | 9''
(225) | 6''
(150) | 6''
(150) | 9''
(225) | 9''
(225) |
| X | 9''
(225) | 10''
(250) | 9''
(225) | 10''
(250) | 9''
(225) | 10''
(250) | 9''
(225) | 10''
(250) | 9''
(225) | 10''
(250) | 9''
(225) | 10''
(250) |
| C.U. YD.
(m³)
CLASS SI
CONCRETE
(OUTLET) | 0.37
(0.28) | 0.42
(0.32) | 0.38
(0.29) | 0.42
(0.32) | 0.44
(0.34) | 0.49
(0.37) | 0.45
(0.34) | 0.50
(0.38) | 0.51
(0.39) | 0.56
(0.43) | 0.52
(0.40) | 0.57
(0.44) |

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SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS IN ANY PARTICLAR STAGE.

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

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

REVISIONS

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

STD. 9-12

PRINT DRIVER = L:\Projects\1259\1259.dgn
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PLOT SCALE = 0.1667' / 1" = 1/6"



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ESCA PROJECT NO. 1259.09	DRAWN - JHM	REVISED -
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PLOT DATE = 12/11/2018	DATE - 08/18	REVISED -

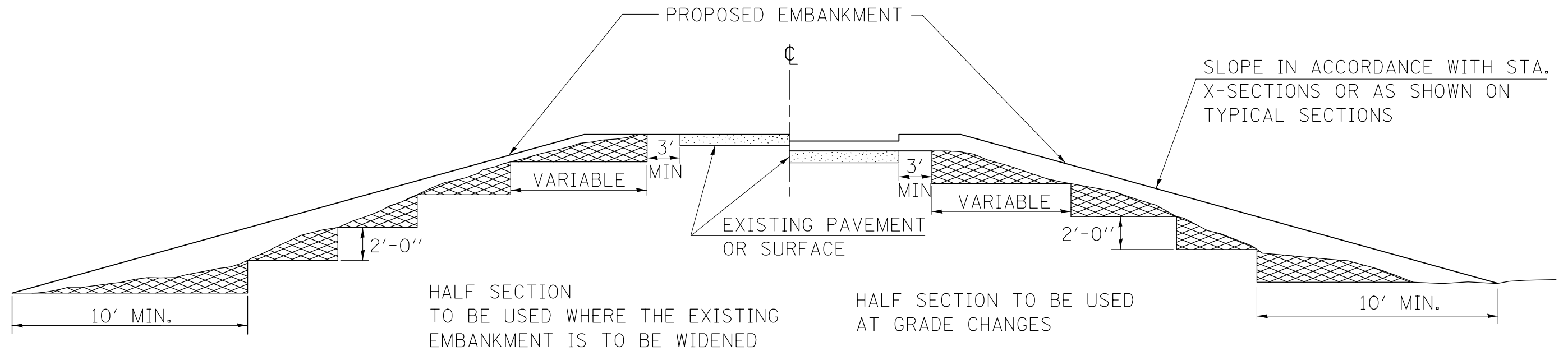
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEEDING AND MULCHING DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	45
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION SHOWING
STEP CONSTRUCTION ON EXISTING FILL



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

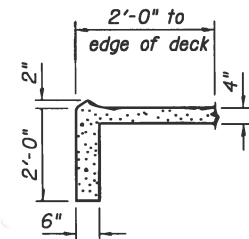
REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08

STD. 9-16

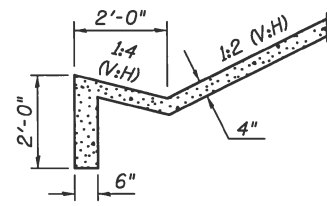
BENCHMARK: BM 300 Chiseled "L" on SE corner of conc. "V"
ditch under SN 077-0026, Sta. 227+89 (I-57), 61.4' RT. elev. 341.27

EXISTING STRUCTURE:
SN 077-0026 was originally built in 1965 as F.A.I. 57, Section 77-1HB-3. The structure consists of four spans of a reinforced concrete deck on six W30x108 steel girders on reinforced concrete piers and open abutments. The abutments are supported on metal shell piles. The piers are supported on timber and metal shell piles. Back-to-back distance between abutments is 207'-0". The superstructure width is 28'-0" clear between the inside faces of the concrete curbs and 33'-8" out-to-out. The bridge is skewed 6°-52'-40" Right Forward. Traffic shall be maintained utilizing stage construction.

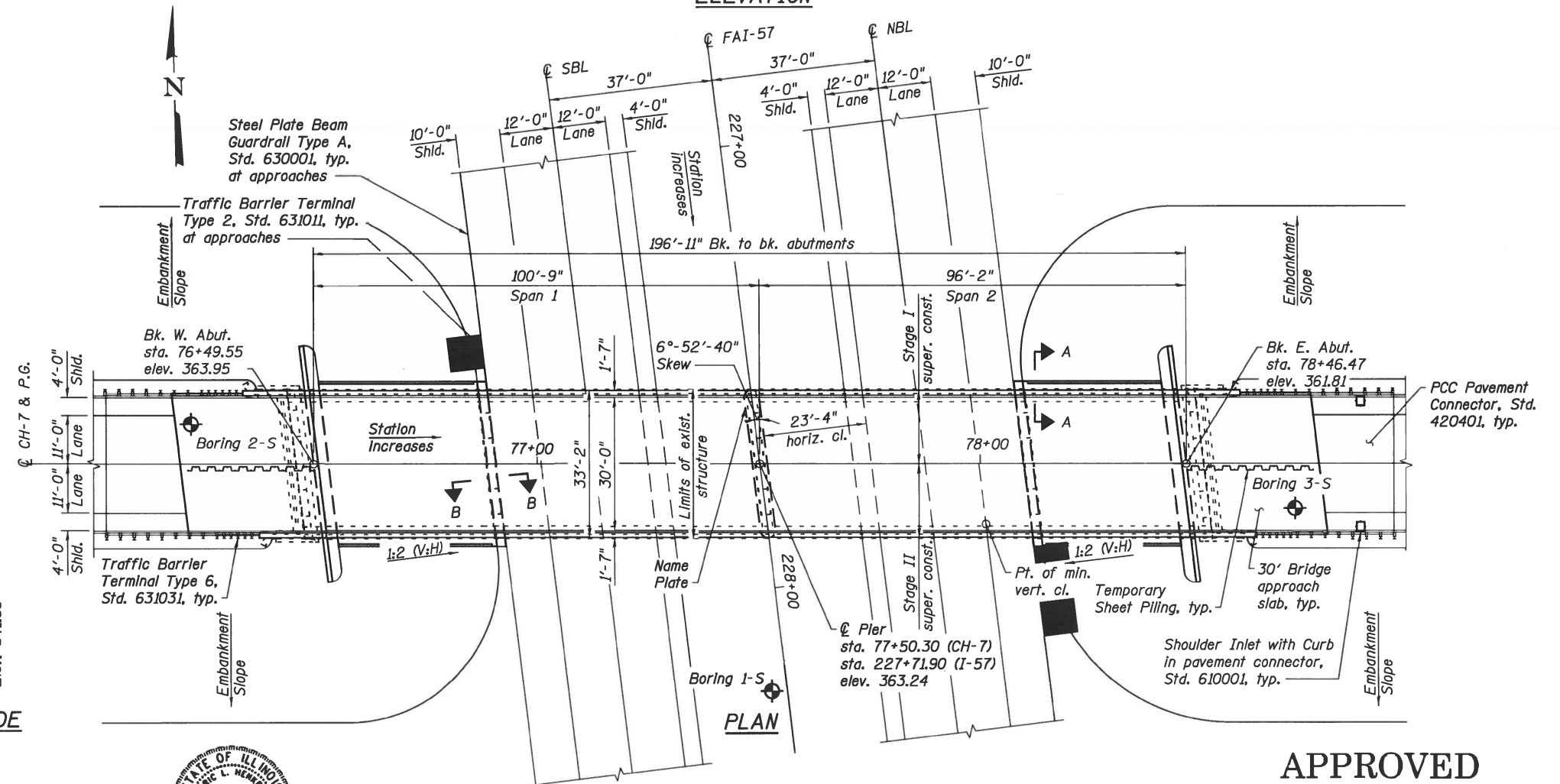
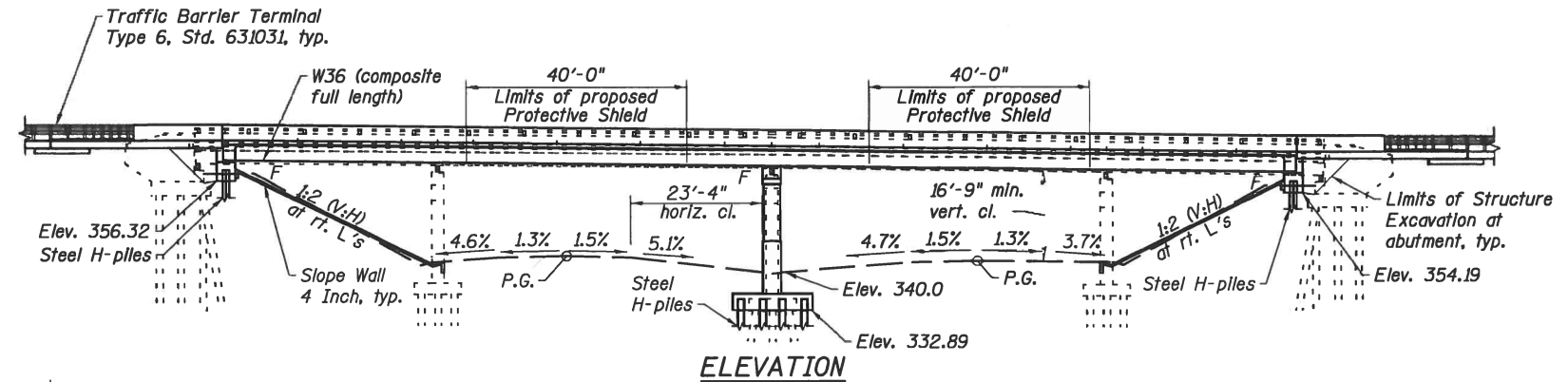
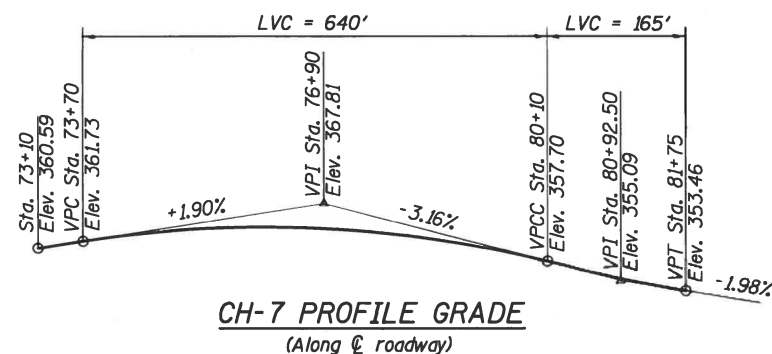
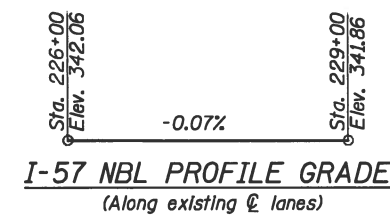
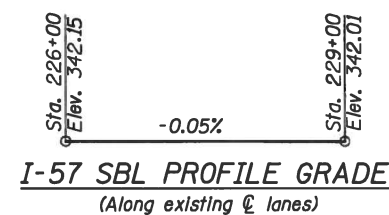
No salvage.



SECTION A-A



SECTION B-B



EXPIRES 11-30-20

SIGNATURE

11-21-18
DATE

SEISMIC DATA

Seismic Performance Zone (SPZ) = 4
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.677g
Design Spectral Acceleration at 0.2 sec. (S_{D8}) = 1.648g
Soil Site Class = D

DESIGN SPECIFICATIONS

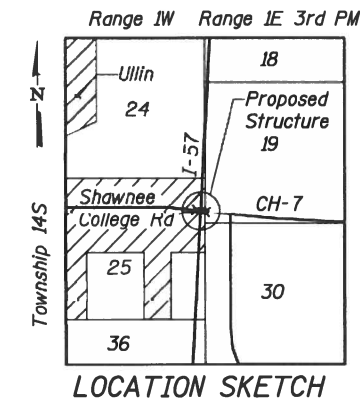
2017 AASHTO LRFD
Bridge Design Specifications 8th Edition

LOADING HL-93

Allow 50 psf for future wearing surface

DESIGN STRESSES
FIELD UNITS

f'_c = 3,500 psi (substructure)
 f'_c = 4,000 psi (superstructure)
 f_y = 50,000 psi (AASHTO M270 Grade 50)
 f_y = 60,000 psi (reinforcement)



APPROVED

FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
CH-7 (SHAWNEE COLLEGE RD)

OVER I-57 & US 51

F.A.I. RTE. 57 - SECTION (77-1-3)HB-2

PULASKI COUNTY

STATION 77+50.30

STRUCTURE NO. 077-0041



USER NAME	Wk	DESIGNED	RTM	05/18	REVISED	-
ESCA PROJECT NO.	1259.09	CHECKED	KJA/ELH	05/18	REVISED	-
PLOT SCALE	0.2" = 1' in	DRAWN	KAH/JMK	08/18	REVISED	-
PLOT DATE	12/11/2018 7:58:34 AM	CHECKED	RTM	11/18	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	47
CONTRACT NO. 78454				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts.
Bolts 7/8" Ø, holes 1 1/16" Ø, unless otherwise noted.
2. Calculated weight of Structural Steel = 222,550 lbs. (Grade 50)
19,250 lbs. (Grade 36)
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
6. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
7. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.
8. Slipforming of the parapets is not allowed.
9. Slope wall shall be reinforced with welded fabric, 6in. x 6in. - W4.0 x W4.0, weight 58 lbs. per 100 sq.ft.
10. The costs of concrete slope wall removal and bridge rail removal are included in Removal of Existing Structures. Removal of the existing protective shield system is included in the cost of Removal of Existing Structures.

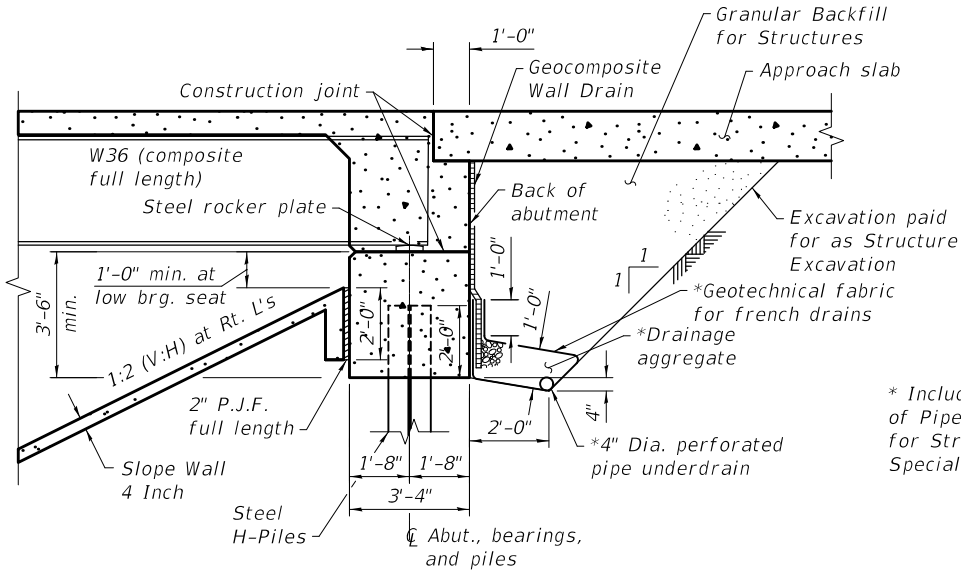
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Protective Shield	Sq. Yd.	300		300
Structure Excavation	Cu. Yd.		275	275
Concrete Structures	Cu. Yd.	19.8	131.0	150.8
Concrete Superstructure	Cu. Yd.	251.7		251.7
Protective Coat	Sq. Yd.	1043		1043
Concrete Superstructure (Approach Slab)	Cu. Yd.	90.9		90.9
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	2466		2466
Reinforcement Bars, Epoxy Coated	Pound	91930	21380	113310
Bar Splicers	Each	864	80	944
Steel Railing (Temporary)	Foot	512		512
Slope Wall 4 Inch	Sq. Yd.		330	330
Furnishing Steel Piles HP14x89	Foot		2125	2125
Furnishing Steel Piles HP14x117	Foot		1211	1211
Driving Piles	Foot		3336	3336
Test Pile Steel HP14x89	Each		1	1
Test Pile Steel HP14x117	Each		2	2
Pile Shoes	Each		42	42
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		36	36
Temporary Sheet Piling	Sq. Ft.		500	500
Geocomposite Wall Drain	Sq. Yd.		66	66
Bridge Deck Grooving	Sq. Yd.	796		796
Granular Backfill for Structures	Cu. Yd.		104	104
Pipe Underdrains for Structures 4"	Foot		124	124
Temporary Support System	Each		1	1

STATION 77+50.30
BUILT 201 _ BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. (77-1-3)HB-2
LOADING HL-93
STR. NO. 077-0041

NAME PLATE
See Std. 515001

STRUCTURE INDEX OF SHEETS	
General Plan & Elevation	Sheet No. 1 of 26
General Data	Sheet No. 2 of 26
Substructure Layout	Sheet No. 3 of 26
Stage Construction Details	Sheet No. 4-5 of 26
Temporary Concrete Barrier for Stage Construction	Sheet No. 6 of 26
Steel Railing (Temporary)	Sheet No. 7 of 26
Top of Slab Elevations	Sheet No. 8-9 of 26
Top of Approach Slab Elevations	Sheet No. 10 of 26
Superstructure	Sheet No. 11 of 26
Superstructure Details	Sheet No. 12 of 26
Diaphragm Details	Sheet No. 13 of 26
Bridge Approach Slab Details	Sheet No. 14-15 of 26
Steel Framing Plan and Details	Sheet No. 16 of 26
Framing Details	Sheet No. 17 of 26
Bearing Details	Sheet No. 18 of 26
West Abutment	Sheet No. 19 of 26
East Abutment	Sheet No. 20 of 26
Pier	Sheet No. 21 of 26
HP Pile Details	Sheet No. 22 of 26
Bar Splicer Assembly Details	Sheet No. 23 of 26
Boring Logs	Sheet No. 24-26 of 26



SECTION THROUGH ABUTMENT
(Horizontal dimensions at rt. angles)

Note:
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).

* Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

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PLOT NAME - 0770041-02-00-0000.dgn
PLOT DATE - 8/6/2018 7:58:35 AM



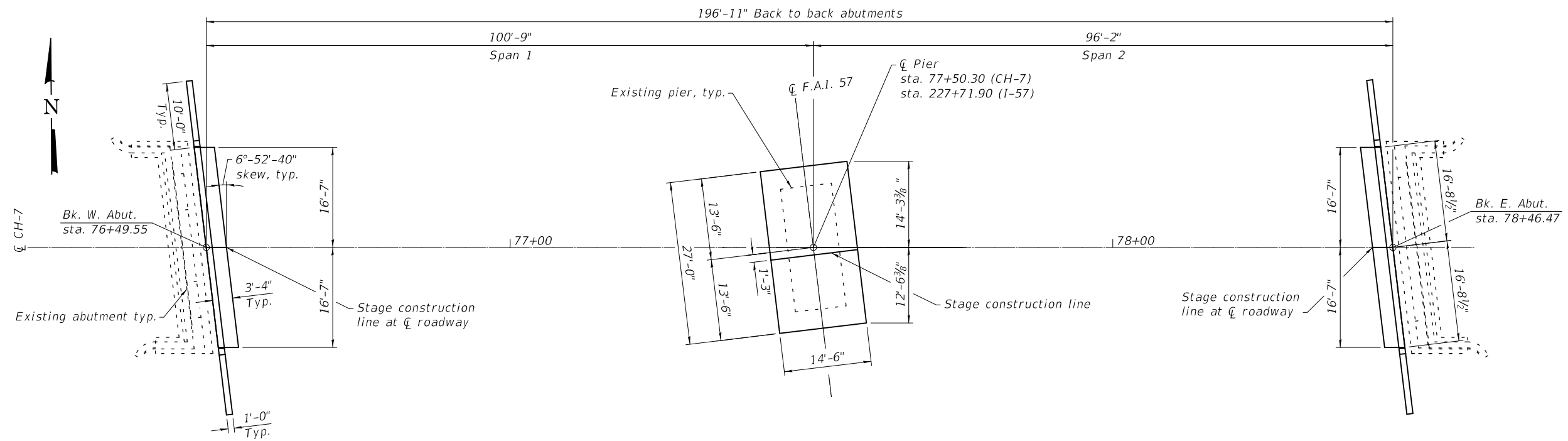
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PLOT DATE = 12/11/2018 7:58:35 AM	CHECKED - RTM 11/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 077-0041

SHEET NO. 2 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	48
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				



PLAN

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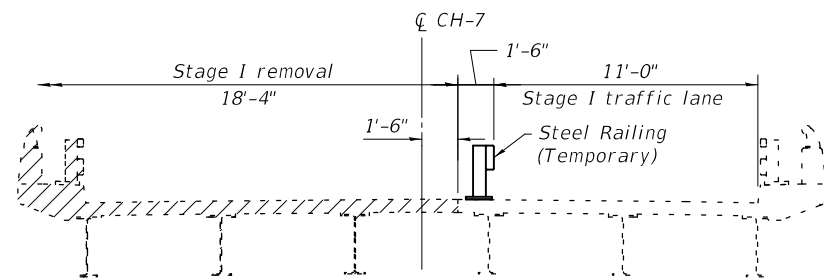
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PLOT DATE =	12/11/2018 7:58:36 AM	CHECKED -	KJA	08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

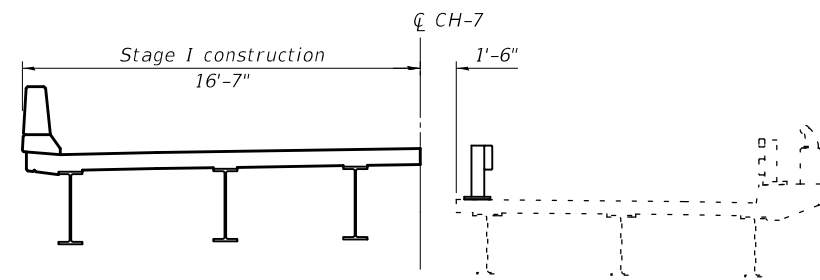
SUBSTRUCTURE LAYOUT
STRUCTURE NO. 077-0041

SHEET NO. 3 OF 26 SHEETS

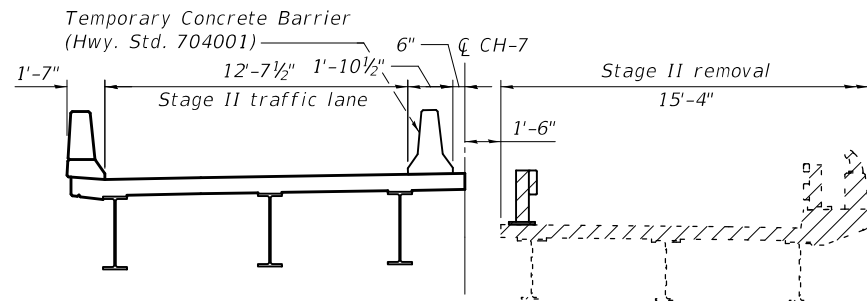
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	49
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				



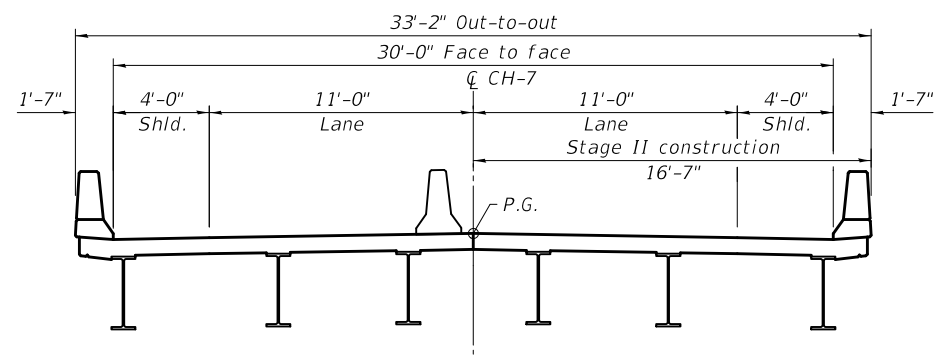
STAGE I REMOVAL
(Looking East)



STAGE I CONSTRUCTION
(Looking East)



STAGE II REMOVAL
(Looking East)



STAGE II CONSTRUCTION
(Looking East)

Note: For quantity of Temporary Concrete Barrier, see Roadway Plans.

PRINT DRIVER = 05/18/18
SCALE NAME = 0:2' = 1" / in.
PLOT DATE = 12/11/2018 7:58:37 AM



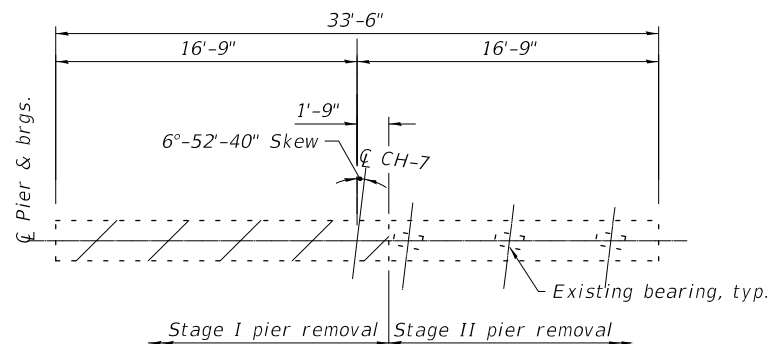
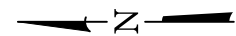
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

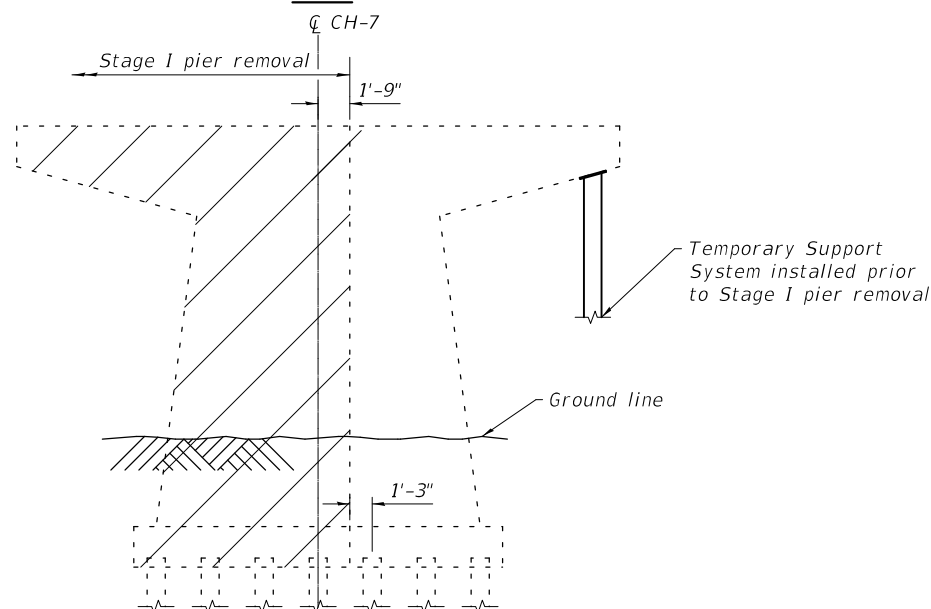
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 077-0041**

SHEET NO. 4 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	50
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				



Plan

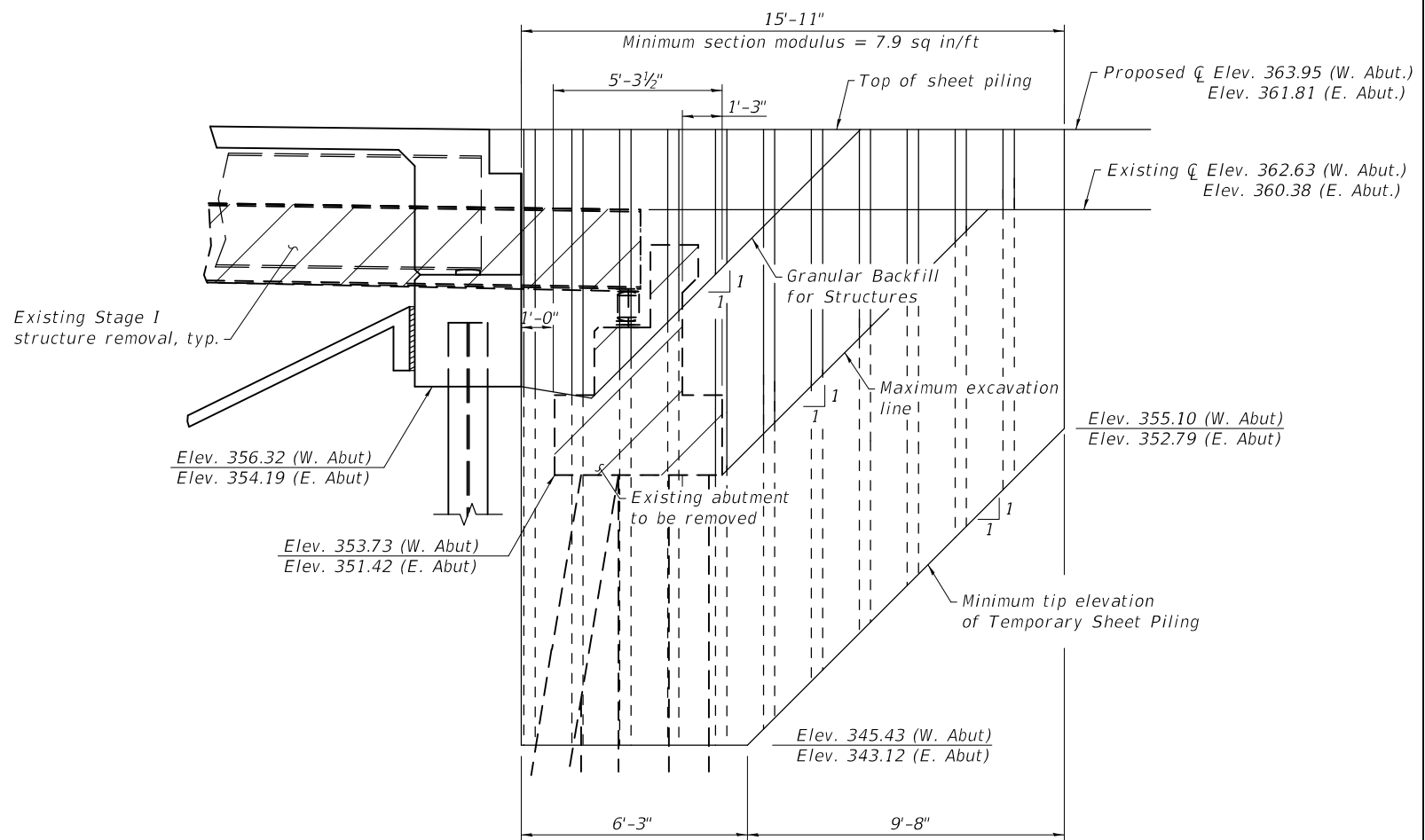


Note: Existing end piers to be completely removed in Stage II

Elevation

CENTER PIER REMOVAL SKETCH

(Looking East)



TEMPORARY SHEET PILING

Notes:

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.

Existing structure details are taken from existing plans.

Dimensions and slopes are shown along the Temporary Sheet Piling unless noted otherwise.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

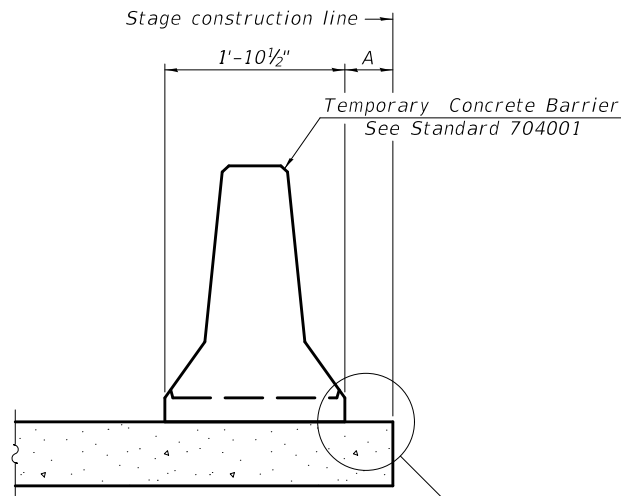
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 077-0041**

SHEET NO. 5 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	51
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

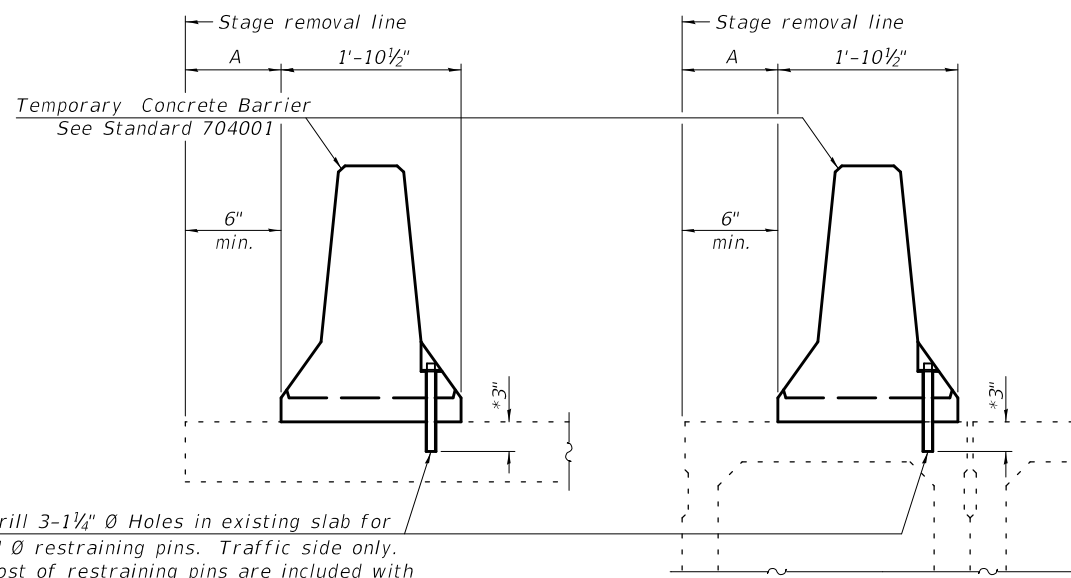


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ESCA PROJECT NO.	1259.09	CHECKED -	RTM/ELH	05/18	REVISED -
PLOT SCALE =	0:2' = 1" / in.	DRAWN -	KAH/JMK	08/18	REVISED -
PLOT DATE =	12/11/2018 7:58:37 AM	CHECKED -	KJA	08/18	REVISED -



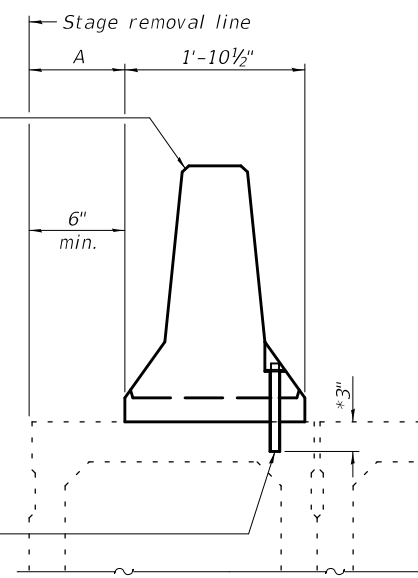
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



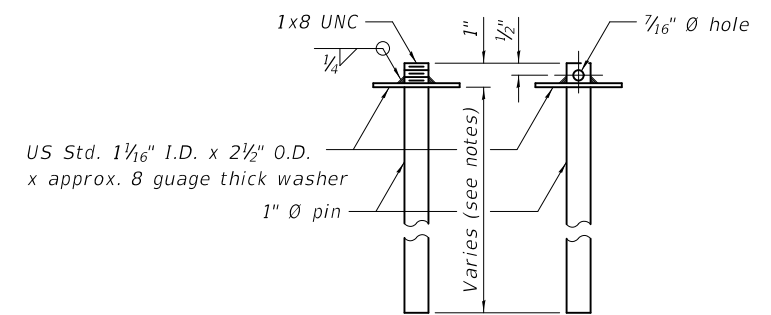
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



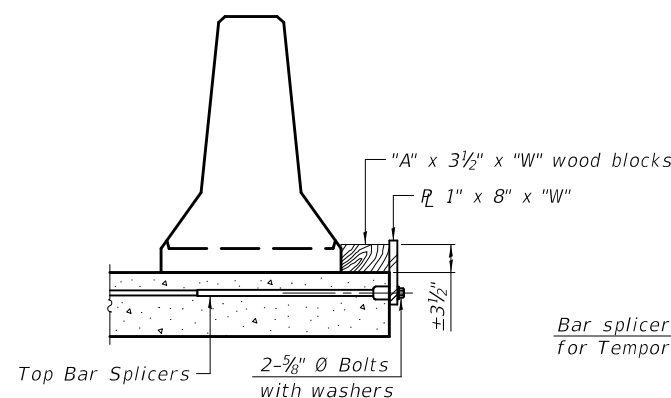
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

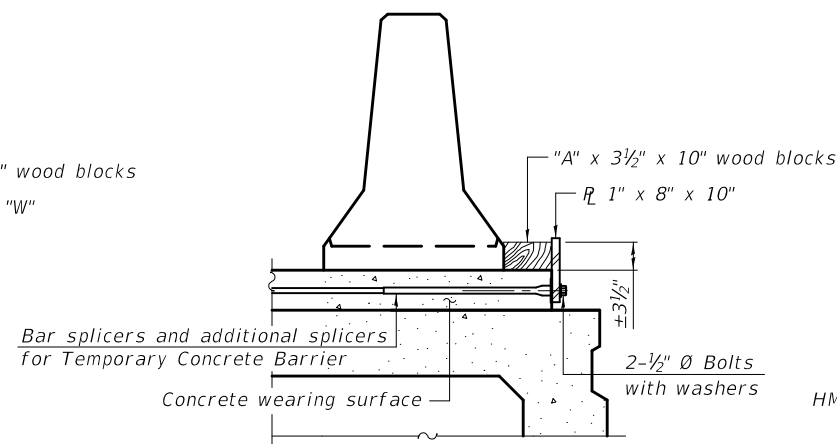


RESTRAINING PIN

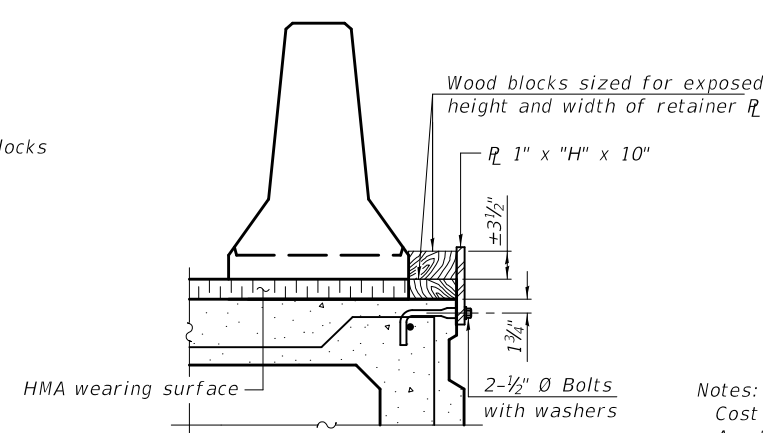
SECTIONS THRU SLAB OR DECK BEAM



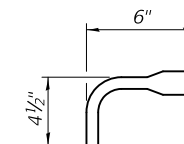
DETAIL I



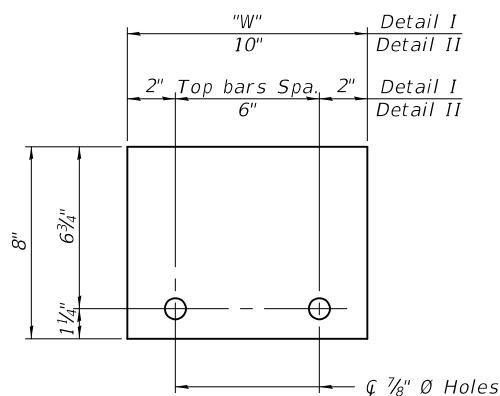
DETAIL II



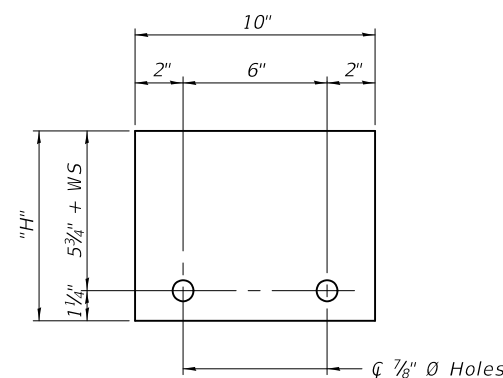
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



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

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 077-0041

SHEET NO. 6 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	52
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

USER NAME =	kjk	DESIGNED -	KJA	05/18	REVISED -
ESCA PROJECT NO.	1259.09	CHECKED -	RTM	05/18	REVISED -
PLOT SCALE =	0:2' = 1" / in.	DRAWN -	KAH/JMK	08/18	REVISED -
PLOT DATE =	12/11/2018 7:58:38 AM	CHECKED -	KJA	08/18	REVISED -

C ROADWAY, PROFILE GRADE &
 STAGE CONSTRUCTION LINE

BEAM 1					BEAM 2					BEAM 3									
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	76+48.88	-13.96	363.73	363.73	W. End of Slab	76+49.55	-8.38	363.83	363.83	W. End of Slab	76+50.22	-2.79	363.91	363.91	W. End of Slab	76+50.56	0.00	363.95	363.95
C Brg. W. Abut.	76+49.55	-13.96	363.73	363.73	C Brg. W. Abut.	76+50.22	-8.38	363.82	363.82	C Brg. W. Abut.	76+50.89	-2.79	363.91	363.91	C Brg. W. Abut.	76+51.23	0.00	363.95	363.95
a	76+59.55	-13.96	363.69	363.75	a	76+60.22	-8.38	363.79	363.85	a	76+60.89	-2.79	363.87	363.93	a	76+61.23	0.00	363.91	363.97
b	76+69.55	-13.96	363.65	363.76	b	76+70.22	-8.38	363.75	363.86	b	76+70.89	-2.79	363.83	363.94	b	76+71.23	0.00	363.87	363.98
c	76+79.55	-13.96	363.60	363.75	c	76+80.22	-8.38	363.69	363.84	c	76+80.89	-2.79	363.77	363.92	c	76+81.23	0.00	363.81	363.96
d	76+89.55	-13.96	363.54	363.70	d	76+90.22	-8.38	363.64	363.80	d	76+90.89	-2.79	363.72	363.88	d	76+91.23	0.00	363.76	363.92
e	76+99.55	-13.96	363.48	363.63	e	77+00.22	-8.38	363.57	363.72	e	77+00.89	-2.79	363.65	363.80	e	77+01.23	0.00	363.69	363.84
f	77+09.55	-13.96	363.40	363.53	f	77+10.22	-8.38	363.49	363.62	f	77+10.89	-2.79	363.57	363.70	f	77+11.23	0.00	363.61	363.74
g	77+19.55	-13.96	363.32	363.41	g	77+20.22	-8.38	363.41	363.50	g	77+20.89	-2.79	363.49	363.58	g	77+21.23	0.00	363.53	363.62
h	77+29.55	-13.96	363.23	363.28	h	77+30.22	-8.38	363.32	363.37	h	77+30.89	-2.79	363.40	363.45	h	77+31.23	0.00	363.44	363.49
i	77+39.55	-13.96	363.13	363.15	i	77+40.22	-8.38	363.22	363.24	i	77+40.89	-2.79	363.30	363.31	i	77+41.23	0.00	363.34	363.35
C Pier	77+48.62	-13.96	363.03	363.03	C Pier	77+49.29	-8.38	363.13	363.13	C Pier	77+49.96	-2.79	363.20	363.20	C Pier	77+50.30	0.00	363.24	363.24
j	77+58.62	-13.96	362.92	362.93	j	77+59.29	-8.38	363.01	363.02	j	77+59.96	-2.79	363.09	363.10	j	77+60.30	0.00	363.13	363.13
k	77+68.62	-13.96	362.80	362.83	k	77+69.29	-8.38	362.89	362.92	k	77+69.96	-2.79	362.97	363.00	k	77+70.30	0.00	363.00	363.04
l	77+78.62	-13.96	362.67	362.73	l	77+79.29	-8.38	362.76	362.82	l	77+79.96	-2.79	362.84	362.90	l	77+80.30	0.00	362.87	362.94
m	77+88.62	-13.96	362.53	362.63	m	77+89.29	-8.38	362.62	362.72	m	77+89.96	-2.79	362.70	362.79	m	77+90.30	0.00	362.73	362.83
n	77+98.62	-13.96	362.39	362.50	n	77+99.29	-8.38	362.48	362.59	n	77+99.96	-2.79	362.55	362.66	n	78+00.30	0.00	362.59	362.70
o	78+08.62	-13.96	362.24	362.35	o	78+09.29	-8.38	362.32	362.44	o	78+09.96	-2.79	362.40	362.51	o	78+10.30	0.00	362.43	362.55
p	78+18.62	-13.96	362.08	362.17	p	78+19.29	-8.38	362.16	362.26	p	78+19.96	-2.79	362.24	362.33	p	78+20.30	0.00	362.27	362.37
q	78+28.62	-13.96	361.91	361.97	q	78+29.29	-8.38	361.99	362.06	q	78+29.96	-2.79	362.07	362.13	q	78+30.30	0.00	362.10	362.17
r	78+38.62	-13.96	361.73	361.75	r	78+39.29	-8.38	361.82	361.84	r	78+39.96	-2.79	361.89	361.91	r	78+40.30	0.00	361.92	361.95
C Brg. E. Abut.	78+43.11	-13.96	361.65	361.65	C Brg. E. Abut.	78+43.78	-8.38	361.73	361.73	C Brg. E. Abut.	78+44.45	-2.79	361.81	361.81	C Brg. E. Abut.	78+44.79	0.00	361.84	361.84
E. End of Slab	78+43.78	-13.96	361.64	361.64	E. End of Slab	78+44.45	-8.38	361.72	361.72	E. End of Slab	78+45.12	-2.79	361.79	361.79	E. End of Slab	78+45.46	0.00	361.83	361.83

BEAM 4					BEAM 5					BEAM 6									
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection					
W. End of Slab	76+50.90	2.79	363.91	363.91	W. End of Slab	76+51.57	8.38	363.82	363.82	W. End of Slab	76+52.24	13.96	363.72	363.72					
C Brg. W. Abut.	76+51.57	2.79	363.90	363.90	C Brg. W. Abut.	76+52.24	8.38	363.82	363.82	C Brg. W. Abut.	76+52.91	13.96	363.72	363.72					
a	76+61.57	2.79	363.87	363.93	a	76+62.24	8.38	363.78	363.84	a	76+62.91	13.96	363.68	363.74					
b	76+71.57	2.79	363.82	363.94	b	76+72.24	8.38	363.74	363.85	b	76+72.91	13.96	363.63	363.75					
c	76+81.57	2.79	363.77	363.92	c	76+82.24	8.38	363.68	363.83	c	76+82.91	13.96	363.58	363.73					
d	76+91.57	2.79	363.71	363.87	d	76+92.24	8.38	363.62	363.78	d	76+92.91	13.96	363.52	363.68					
e	77+01.57	2.79	363.64	363.80	e	77+02.24	8.38	363.56	363.71	e	77+02.91	13.96	363.45	363.60					
f	77+11.57	2.79	363.57	363.70	f	77+12.24	8.38	363.48	363.61	f	77+12.91	13.96	363.37	363.50					
g	77+21.57	2.79	363.48	363.57	g	77+22.24	8.38	363.39	363.48	g	77+22.91	13.96	363.29	363.38					
h	77+31.57	2.79	363.39	363.44	h	77+32.24	8.38	363.30	363.35	h	77+32.91	13.96	363.20	363.25					
i	77+41.57	2.79	363.29	363.31	i	77+42.24	8.38	363.20	363.22	i	77+42.91	13.96	363.10	363.11					
C Pier	77+50.64	2.79	363.19	363.19	C Pier	77+51.31	8.38	363.10	363.10	C Pier	77+51.98	13.96	363.00	363.00					
j	77+60.64	2.79	363.08	363.09	j	77+61.31	8.38	362.99	363.00	j	77+61.98	13.96	362.88	362.89					
k	77+70.64	2.79	362.96	362.99	k	77+71.31	8.38	362.86	362.90	k	77+71.98	13.96	362.76	362.79					
l	77+80.64	2.79	362.83	362.89	l	77+81.31	8.38	362.73	362.80	l	77+81.98	13.96	362.63	362.69					
m	77+90.64	2.79	362.69	362.78	m	77+91.31	8.38	362.59	362.69	m	77+91.98	13.96	362.49	362.58					
n	78+00.64	2.79	362.54	362.65	n	78+01.31	8.38	362.45	362.56	n	78+01.98	13.96	362.34	362.45					
o	78+10.64	2.79	362.39	362.50	o	78+11.31	8.38	362.29	362.41	o	78+11.98	13.96	362.18	362.30					
p	78+20.64	2.79	362.22	362.32	p	78+21.31	8.38	362.13	362.23	p	78+21.98	13.96	362.02	362.12					
q	78+30.64	2.79	362.05	362.12	q	78+31.31	8.38	361.96	362.03	q	78+31.98	13.96	361.85	361.92					
r	78+40.64	2.79	361.88	361.90	r	78+41.31	8.38	361.78	361.80	r	78+41.98	13.96	361.67	361.69					
C Brg. E. Abut.	78+45.13	2.79	361.79	361.79	C Brg. E. Abut.	78+45.80	8.38	361.70	361.70	C Brg. E. Abut.	78+46.47	13.96	361.59	361.59					
E. End of Slab	78+45.80	2.79	361.78	361.78	E. End of Slab	78+46.47	8.38	361.68	361.68	E. End of Slab	78+47.15	13.96	361.57	361.57					

PRINT DRIVER = \$PLTWIN\$
 ESCA PROJECT NO. 1259.09
 PLOT SCALE = 0:2" = 1'-0"
 PLOT DATE = 12/11/2018 7:58:41 AM



USER NAME =	kjk	DESIGNED -	RTM	05/18	REVISED -
ESCA PROJECT NO. 1259.09		CHECKED -	KJA/ELH	05/18	REVISED -
PLOT SCALE =	0:2" = 1'-0"	DRAWN -	KAH/JMK	08/18	REVISED -
PLOT DATE =	12/11/2018 7:58:41 AM	CHECKED -	RTM	11/18	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 077-0041

SHEET NO. 9 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	55
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

WEST APPROACH SLAB

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	76+18.75	-15.00	363.77
A1	76+28.75	-15.00	363.75
A2	76+38.75	-15.00	363.74
E. End of W. Aprpr.	76+48.75	-15.00	363.71

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	76+19.23	-11.00	363.84
A1	76+29.23	-11.00	363.83
A2	76+39.23	-11.00	363.81
E. End of W. Aprpr.	76+49.23	-11.00	363.79

CL ROADWAY, P.G. & STAGE
CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	76+20.56	0.00	364.01
A1	76+30.56	0.00	364.00
A2	76+40.56	0.00	363.98
E. End of W. Aprpr.	76+50.56	0.00	363.95

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	76+21.89	11.00	363.84
A1	76+31.89	11.00	363.83
A2	76+41.89	11.00	363.81
E. End of W. Aprpr.	76+51.89	11.00	363.78

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	76+22.37	15.00	363.76
A1	76+32.37	15.00	363.75
A2	76+42.37	15.00	363.73
E. End of W. Aprpr.	76+52.37	15.00	363.70

EAST APPROACH SLAB

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	78+43.65	-15.00	361.62
A3	78+53.65	-15.00	361.43
A4	78+63.65	-15.00	361.23
E. End of E. Aprpr.	78+73.65	-15.00	361.03

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	78+44.13	-11.00	361.69
A3	78+54.13	-11.00	361.50
A4	78+64.13	-11.00	361.30
E. End of E. Aprpr.	78+74.13	-11.00	361.10

CL ROADWAY, P.G. & STAGE
CONSTRUCTION LINE

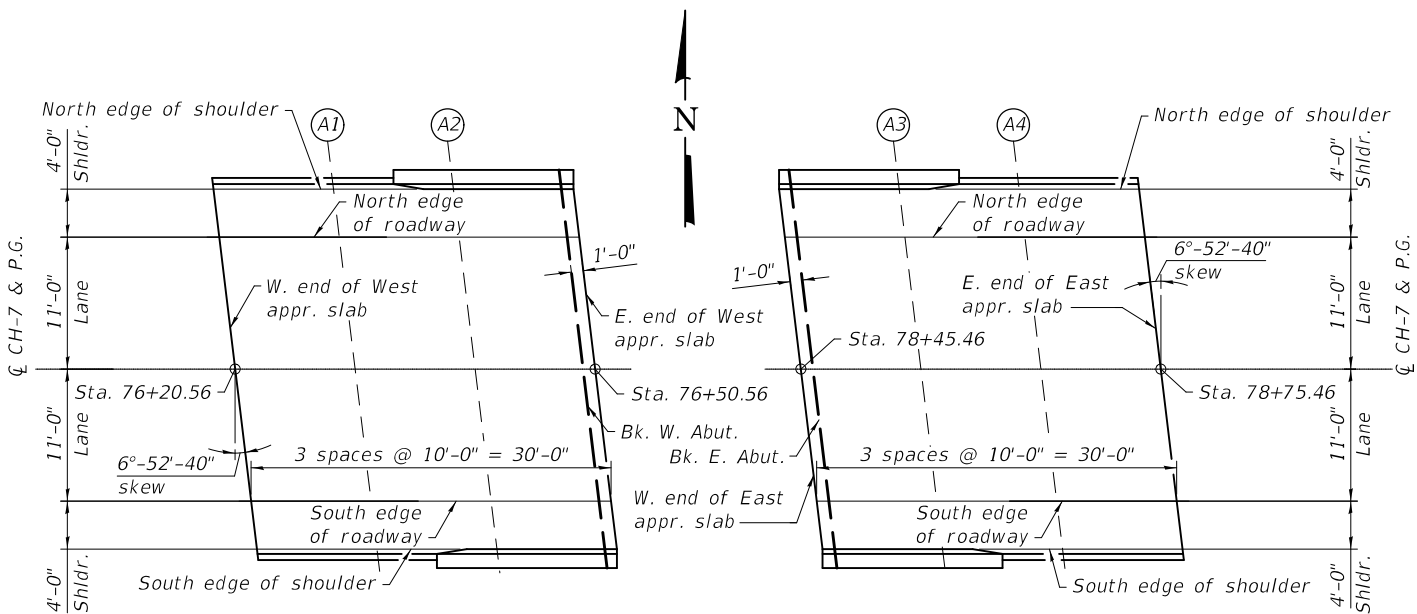
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	78+45.46	0.00	361.83
A3	78+55.46	0.00	361.64
A4	78+65.46	0.00	361.44
E. End of E. Aprpr.	78+75.46	0.00	361.24

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	78+46.79	11.00	361.64
A3	78+56.79	11.00	361.45
A4	78+66.79	11.00	361.25
E. End of E. Aprpr.	78+76.79	11.00	361.04

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	78+47.27	15.00	361.55
A3	78+57.27	15.00	361.36
A4	78+67.27	15.00	361.16
E. End of E. Aprpr.	78+77.27	15.00	360.95



W. APPROACH SLAB

PLAN

E. APPROACH SLAB

PRINT DRIVER = 8/10/2018
PLOT SCALE = 1/8" = 1'-0"
PLOT DATE = 12/11/2018 7:58:42 AM



USER NAME =	kjk	DESIGNED -	RTM	05/18	REVISED -
ESCA PROJECT NO.	1259.09	CHECKED -	KJA/ELH	05/18	REVISED -
PLOT SCALE =	0:2" / 1'.	DRAWN -	KAH/JMK	08/18	REVISED -
PLOT DATE =	12/11/2018 7:58:42 AM	CHECKED -	KJA	08/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

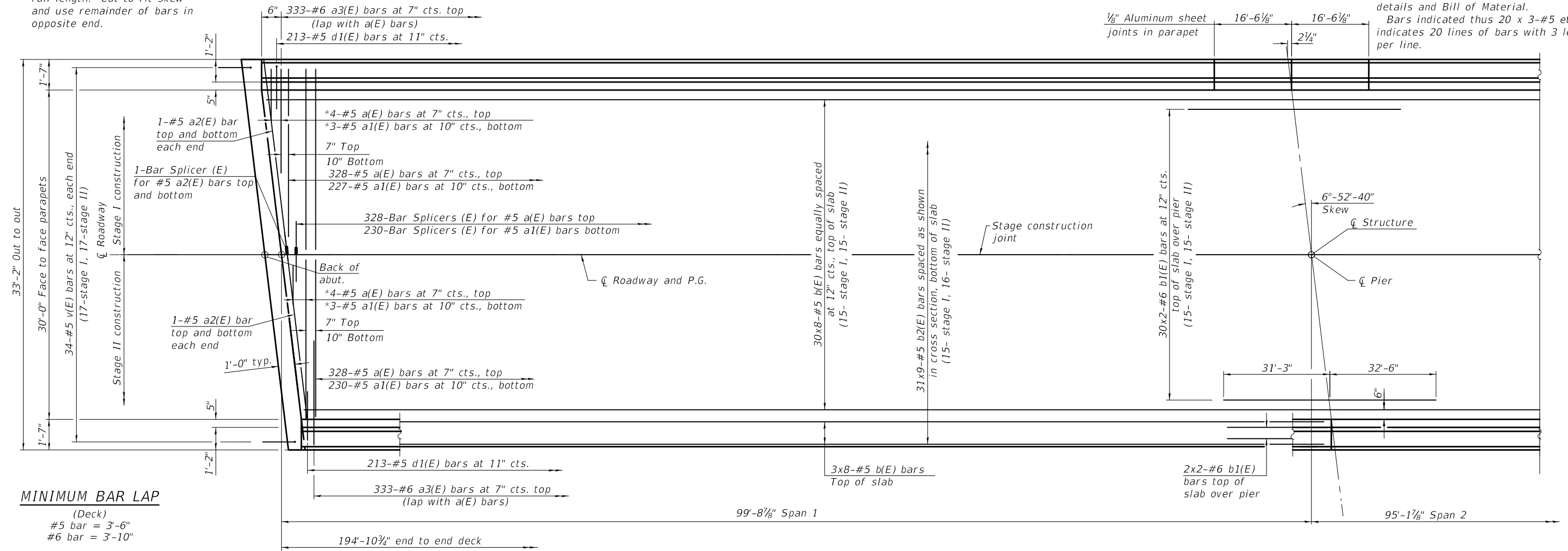
TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 077-0041

SHEET NO. 10 OF 26 SHEETS

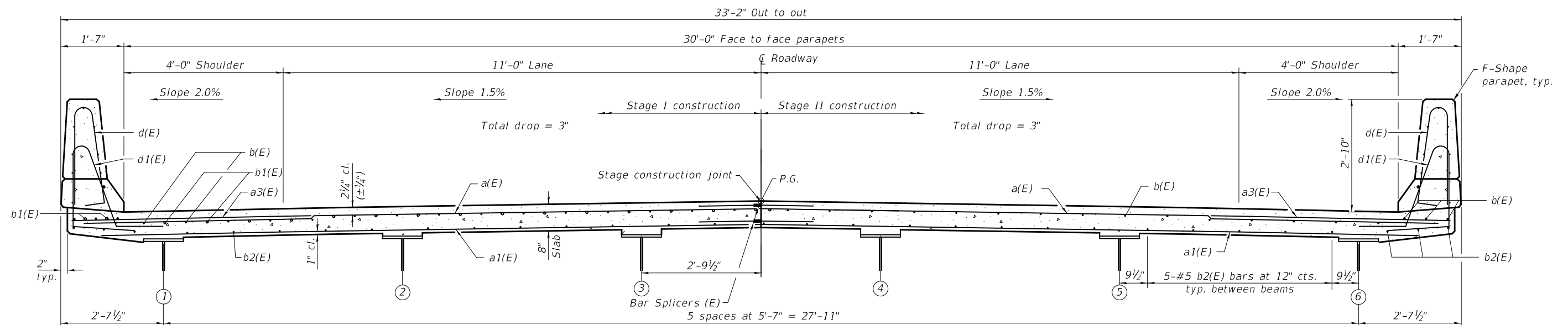
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	56
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

* Order $a(E)$ and $a1(E)$ bars full length. Cut to fit skew and use remainder of bars in opposite end.

Notes:
See sheet 12 of 26 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc.
indicates 20 lines of bars with 3 lengths per line.



PARTIAL PLAN



NEAR PIER

NEAR MIDSPAN

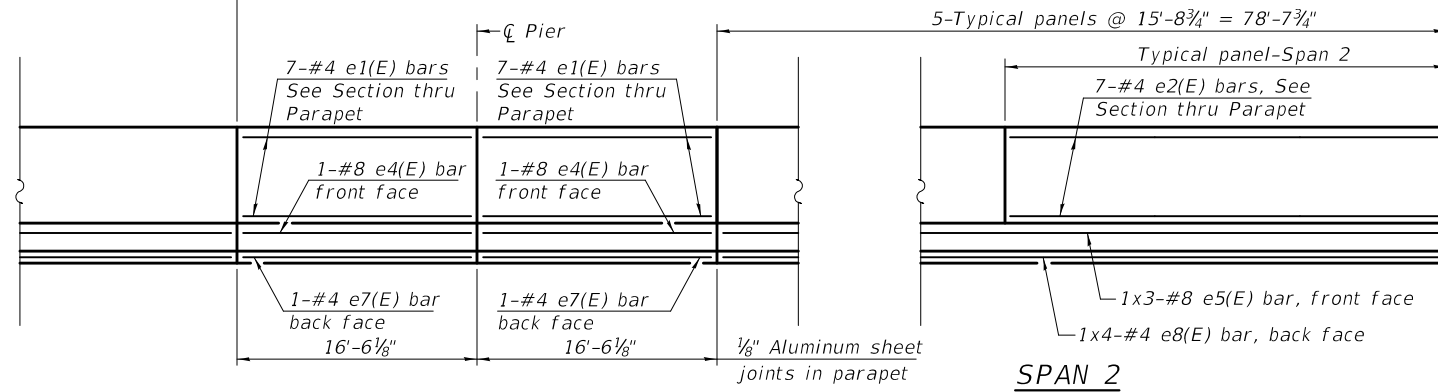
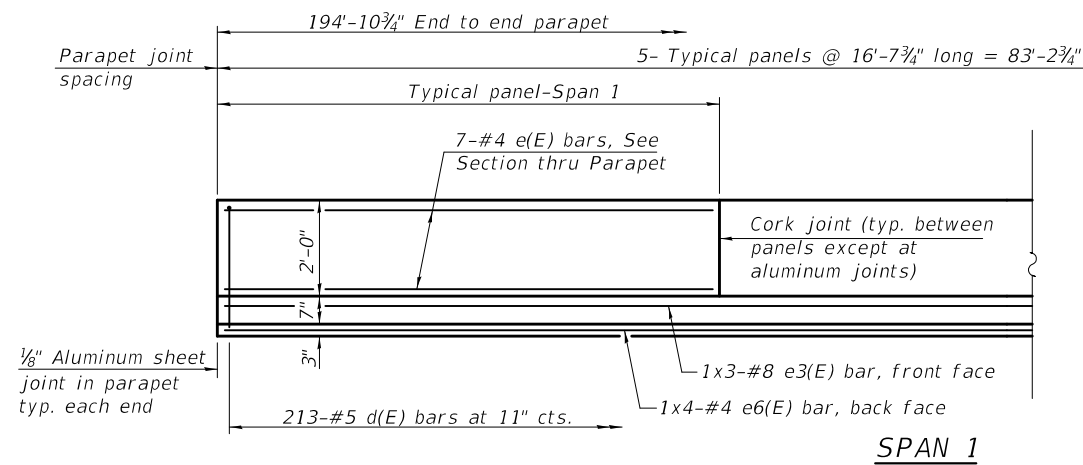
CROSS SECTION
(Looking East)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

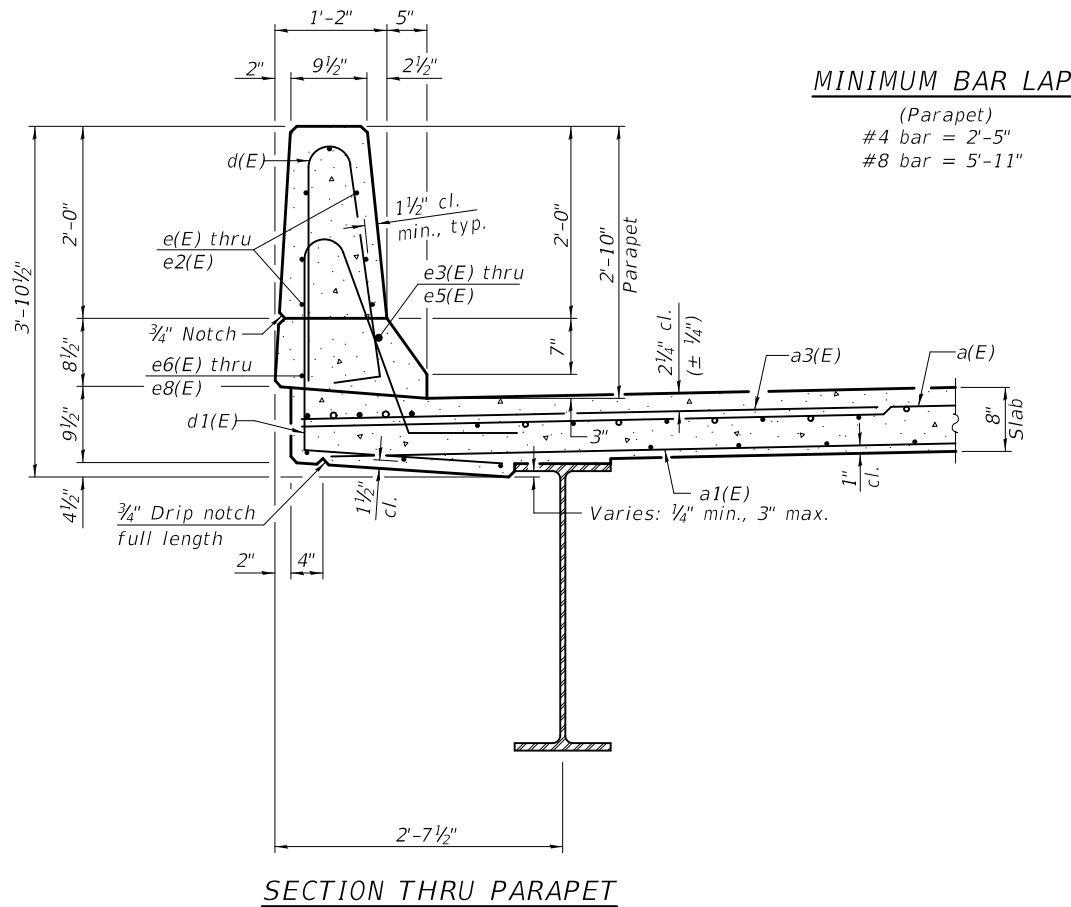
SUPERSTRUCTURE
STRUCTURE NO. 077-0041

SHEET NO. 11 OF 26 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	57
CONTRACT NO. 78454				
	ILLINOIS	FED. AID PROJECT		

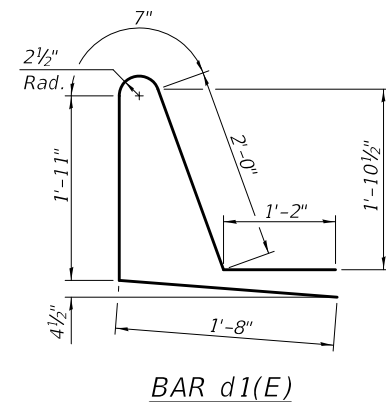
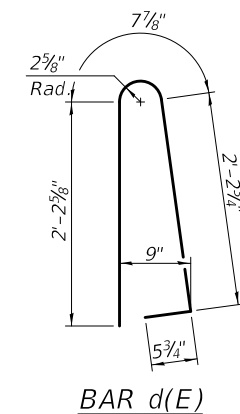
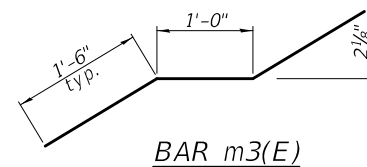
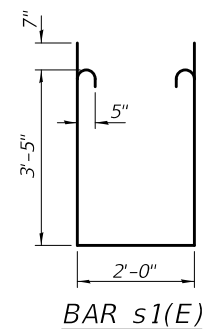
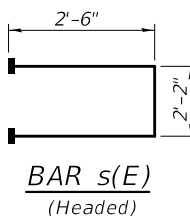
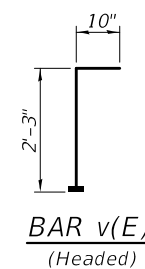
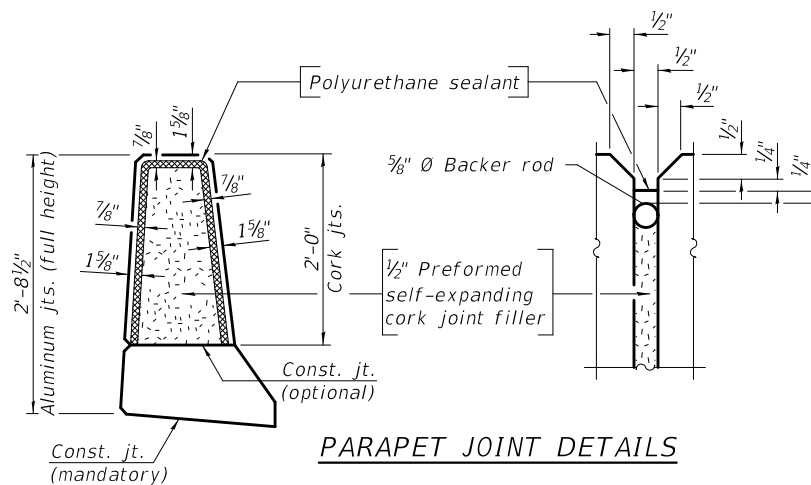


INSIDE ELEVATION OF PARAPET



MINIMUM BAR LAP

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



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	664	#5	16'-3"	—
a1(E)	463	#5	16'-0"	—
a2(E)	8	#5	16'-4"	—
a3(E)	666	#6	6'-6"	—
b(E)	288	#5	27'-5"	—
b1(E)	68	#6	34'-0"	—
b2(E)	279	#5	24'-9"	—
d(E)	426	#5	5'-7"	⌋
d1(E)	426	#5	7'-4"	⌋
e(E)	70	#4	16'-3"	—
e1(E)	28	#4	16'-2"	—
e2(E)	70	#4	15'-3"	—
e3(E)	6	#8	31'-8"	—
e4(E)	4	#8	16'-2"	—
e5(E)	6	#8	30'-0"	—
e6(E)	8	#4	22'-6"	—
e7(E)	4	#4	16'-2"	—
e8(E)	8	#4	21'-4"	—
m(E)	20	#6	16'-3"	—
m1(E)	32	#6	5'-3"	—
m2(E)	32	#6	2'-3"	—
m3(E)	36	#5	4'-0"	—
s(E)	31	#5	7'-2"	⌋
s1(E)	31	#5	10'-0"	⌋
v(E)	68	#5	3'-1"	⌋
Reinforcement Bars, Epoxy Coated			Lbs.	55260
Concrete Superstructure			Cu. Yds.	245.0
Bar Splicers			Each	572

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

Notes:

The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

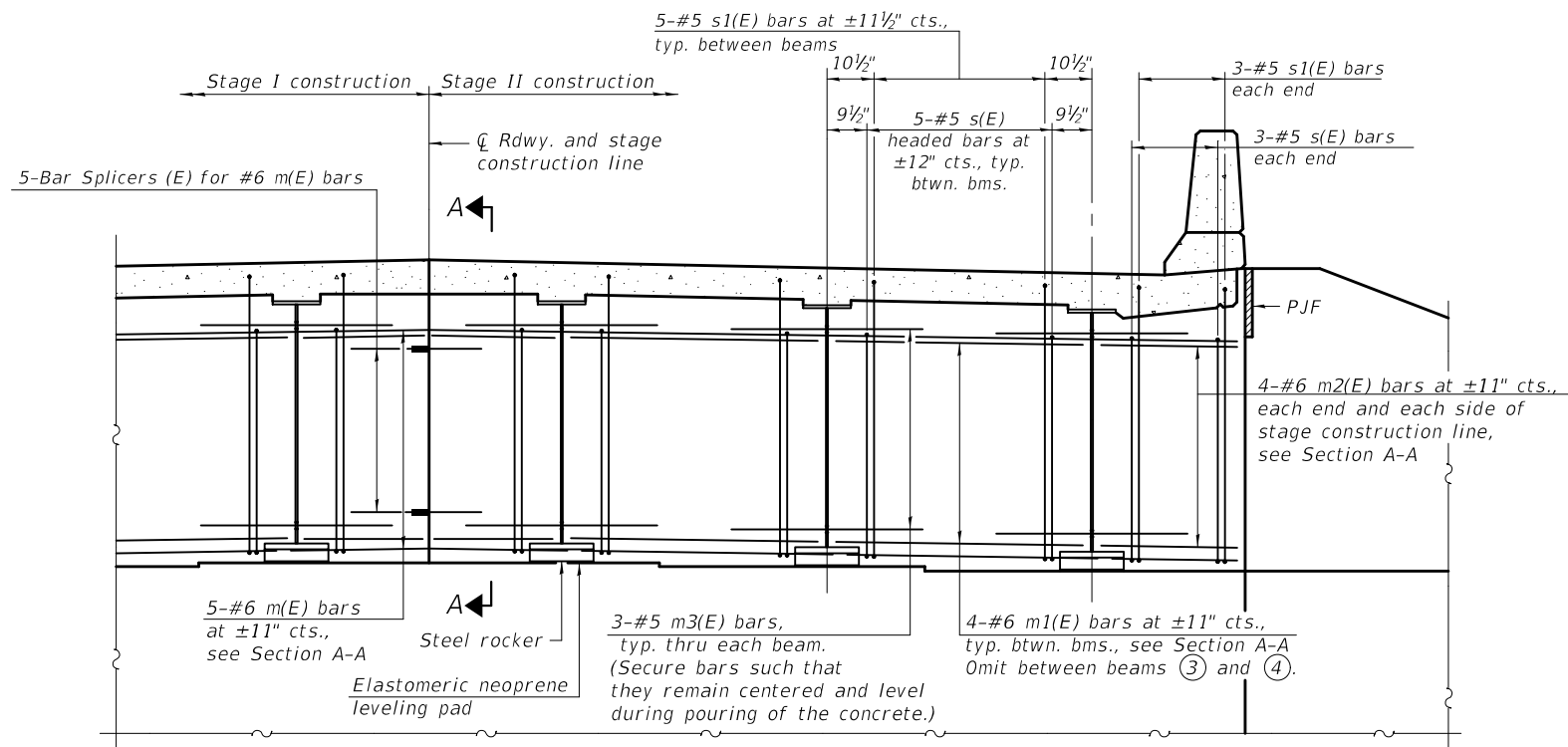
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 077-0041**

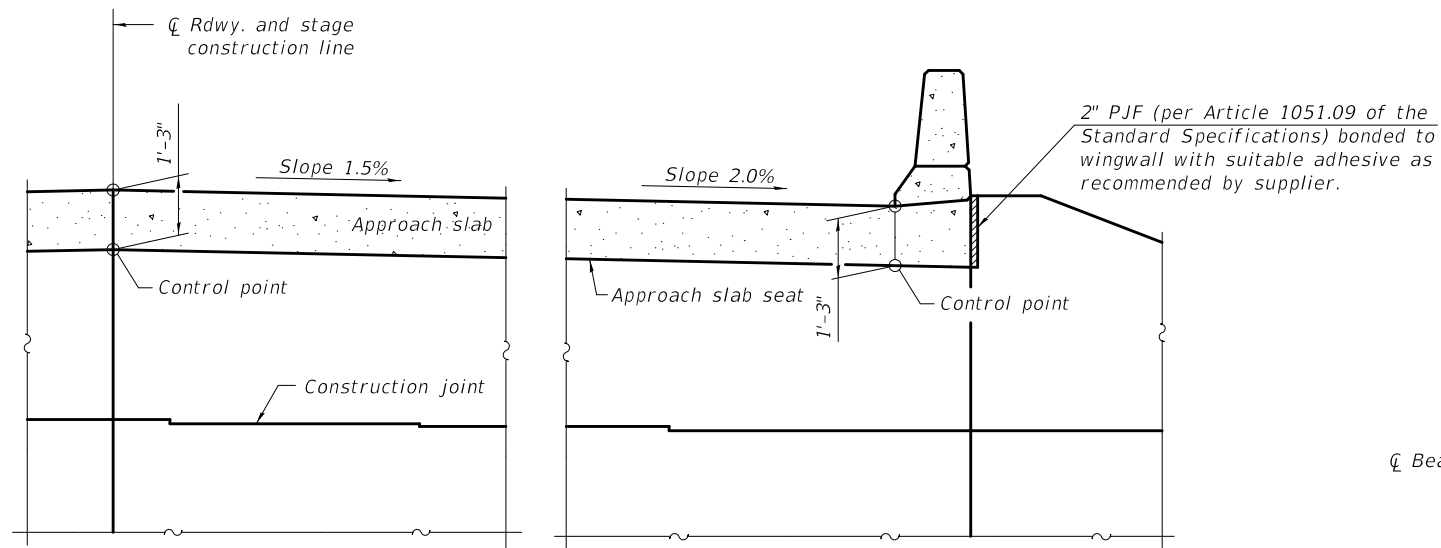
SHEET NO. 12 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	58
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

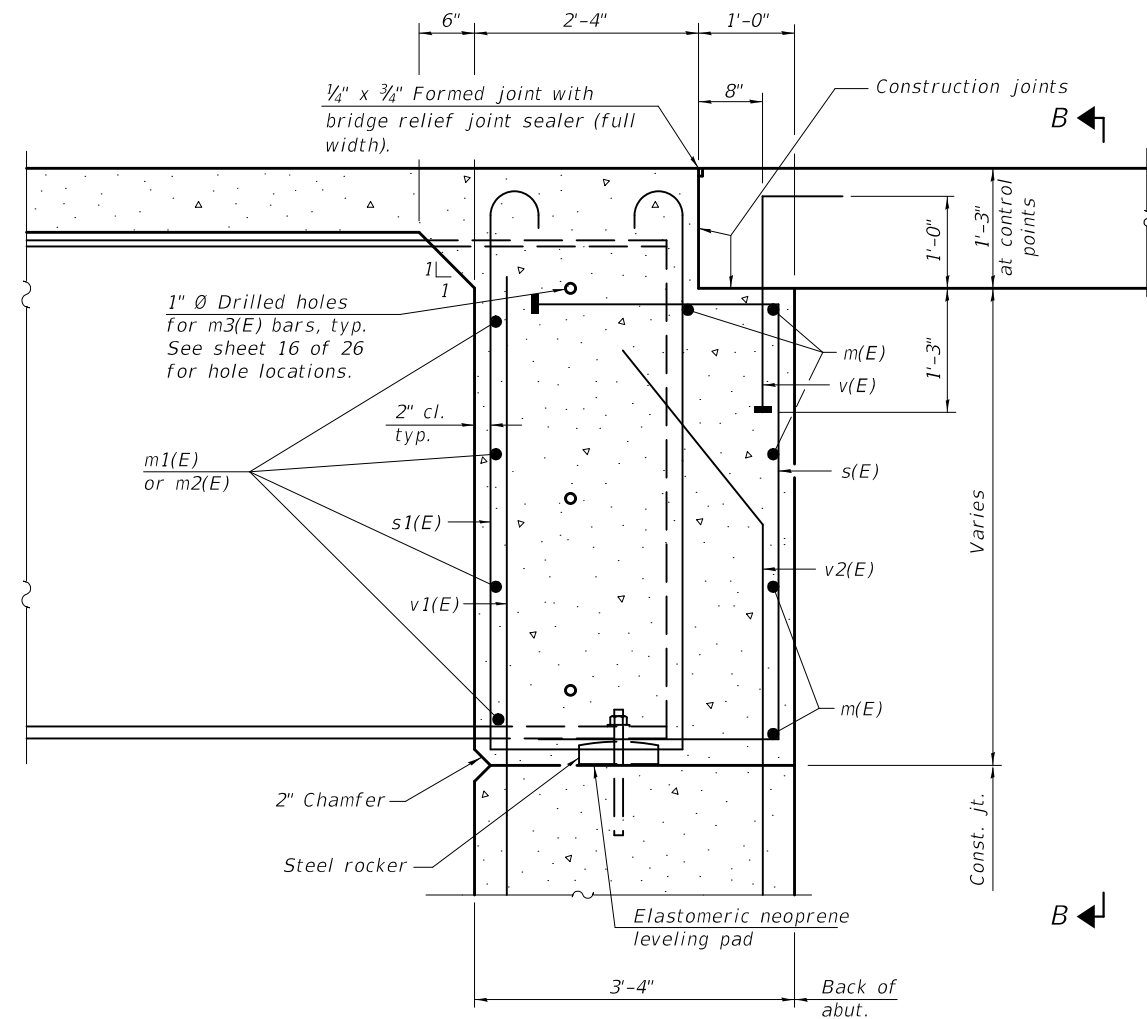
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PLOT DATE =	12/11/2018 7:58:43 AM	CHECKED -	RTM	11/18	REVISED -



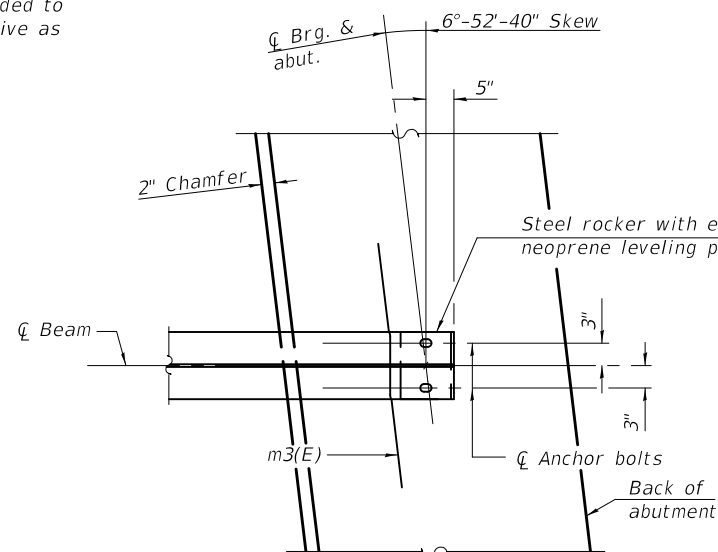
DIAPHRAGM AT ABUTMENT
(Looking East at East Abutment)



SECTION B-B



SECTION A-A
(at Rt. L's)



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 12 of 26.

Concrete in diaphragm is included with Concrete Superstructure on sheet 12 of 26.

For details of bars s(E), s1(E), and v(E), see sheet 12 of 26.

For details of bars v1(E) and v2(E), see sheet 19 and 20 of 26.

The s(E) and s1(E) bars shall be placed parallel to the beams.

Spacing for these bars shall be at right angles to the beams.

The approach slab seat shall have a constant slope determined from the control points shown.

For bearing details see sheet 18 of 26.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

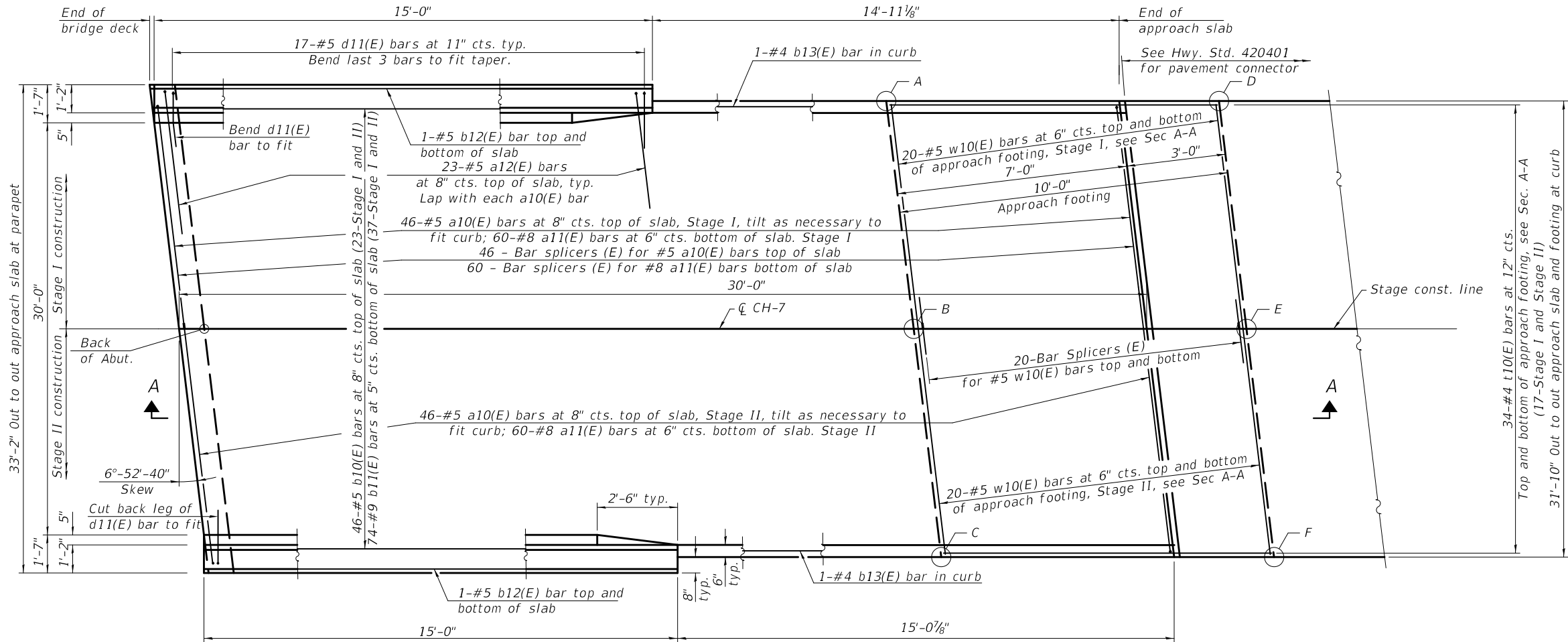
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 077-0041

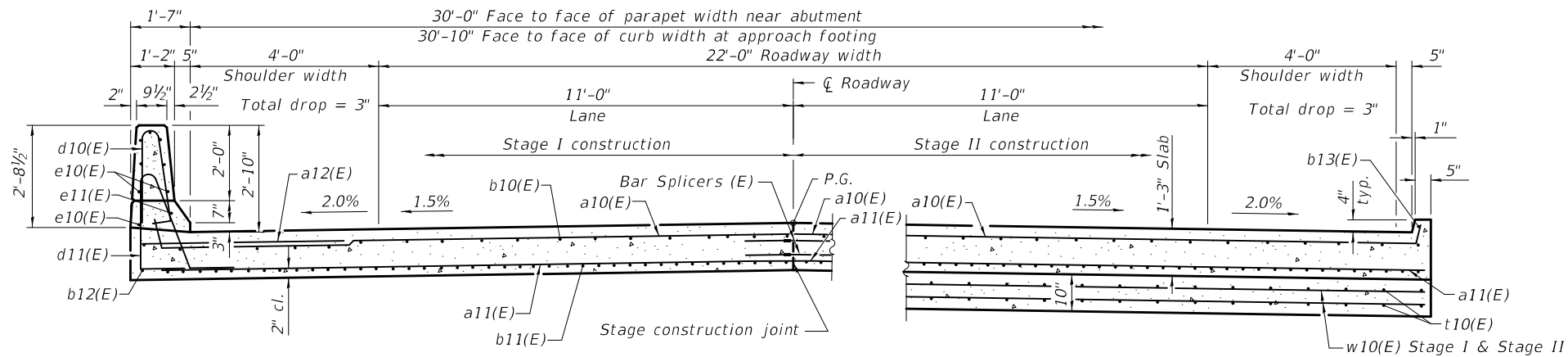
SHEET NO. 13 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	59
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

USER NAME =	kjk	DESIGNED -	RTM	05/18	REVISED -
ESCA PROJECT NO.	1259.09	CHECKED -	KJA/ELH	05/18	REVISED -
PLOT SCALE =	0:2' = 1" / in.	DRAWN -	KAH/JMK	08/18	REVISED -
PLOT DATE =	12/11/2018 7:58:44 AM	CHECKED -	RTM	11/18	REVISED -



PLAN
(Showing East Approach - West Approach similar)



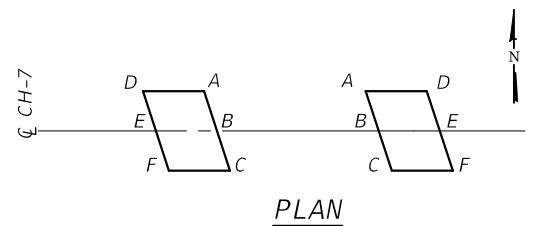
NEAR ABUTMENT

CROSS SECTION
(Looking East)

AT APPROACH FOOTING

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

Point	West Approach		East Approach	
	Top	Bottom	Top	Bottom
A	362.49	361.66	359.91	359.07
B	362.75	361.92	360.13	359.30
C	362.49	361.66	359.83	358.99
D	362.50	361.67	359.71	358.88
E	362.76	361.93	359.92	359.09
F	362.50	361.67	359.62	358.78



PLAN

(Sheet 1 of 2)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

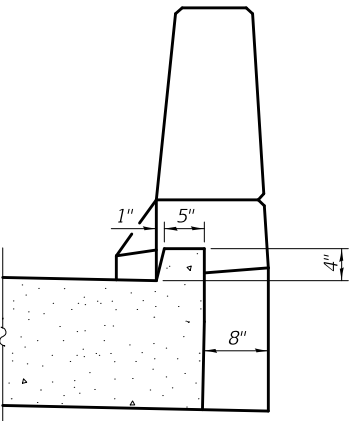
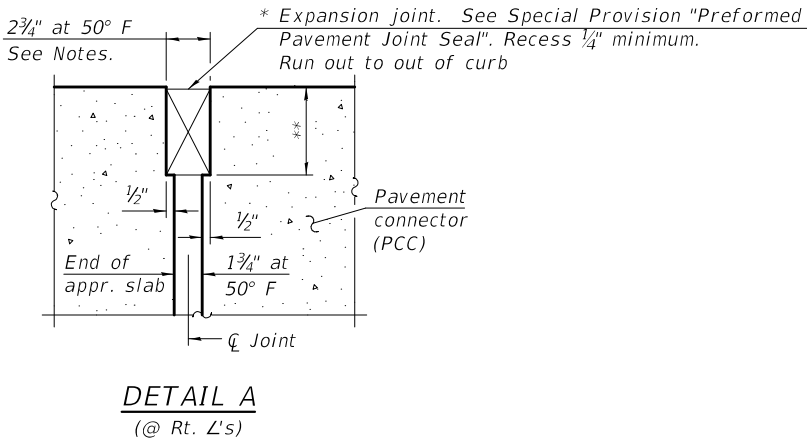
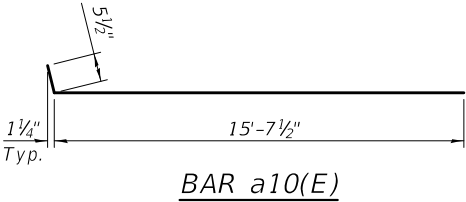
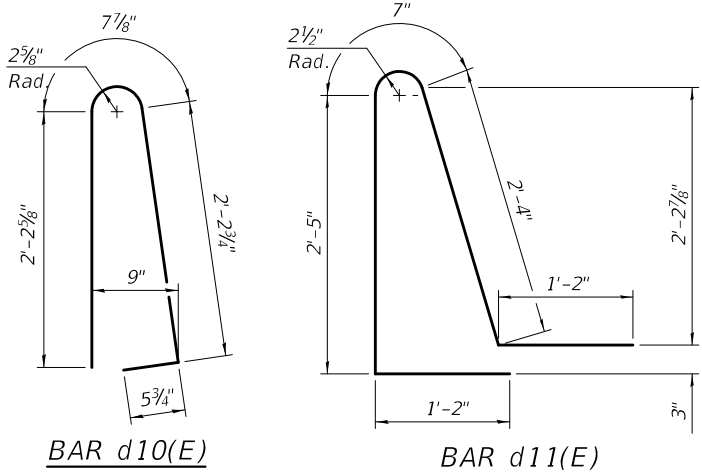
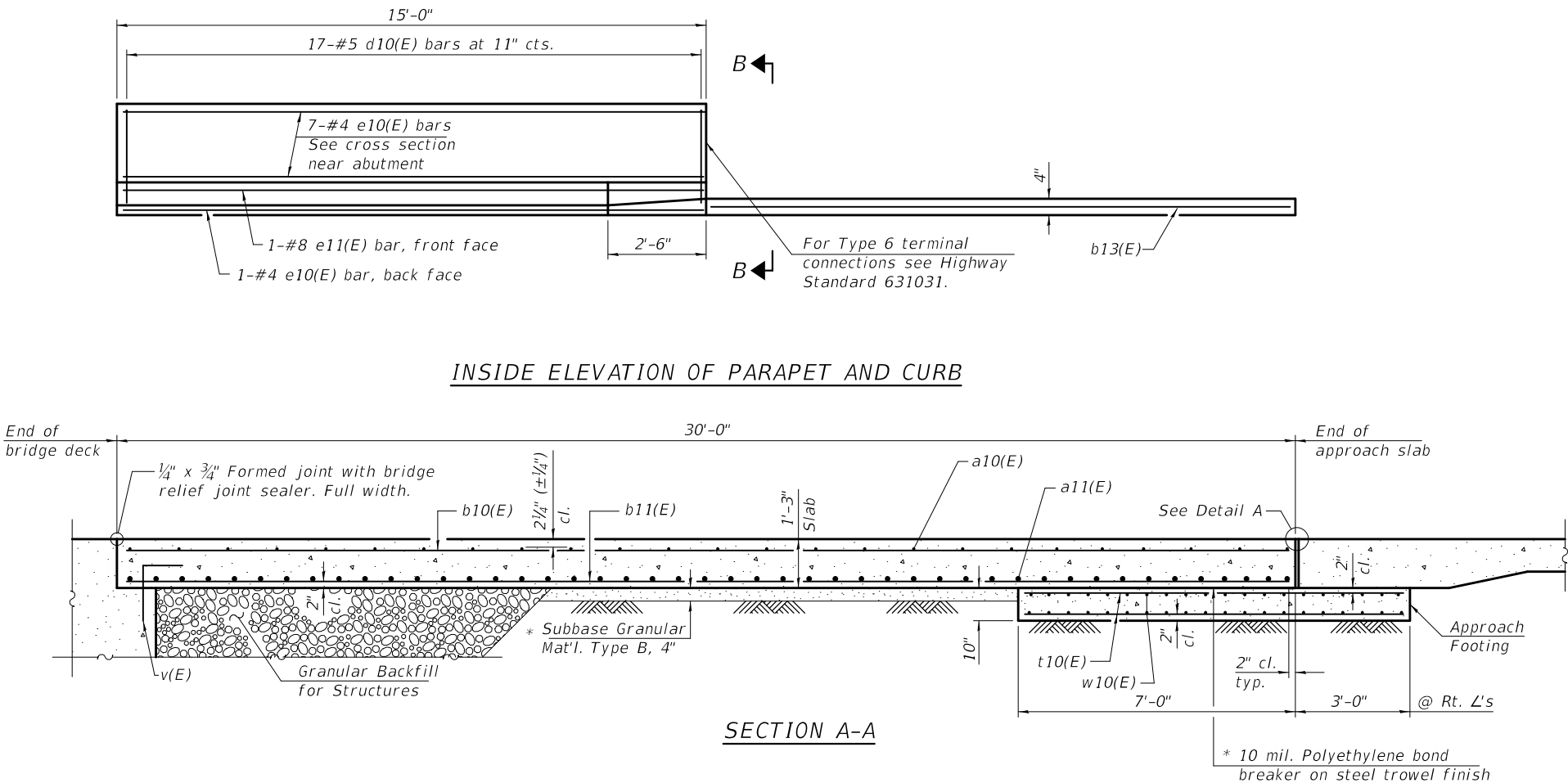
**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 077-0041**

SHEET NO. 14 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	60
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

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ESCA PROJECT NO.	1259.09	CHECKED -	KJA/ELH	05/18	REVISED -	
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PLOT DATE =	12/11/2018 7:58:45 AM	CHECKED -	KJA	11/18	REVISED -	

Notes:
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 26.



TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	184	#5	16'-1"	
a11(E)	240	#8	15'-8"	
a12(E)	92	#5	7'-4"	
b10(E)	92	#5	29'-8"	
b11(E)	148	#9	29'-8"	
b12(E)	8	#5	14'-8"	
b13(E)	4	#4	14'-8"	
d10(E)	68	#5	5'-7"	
d11(E)	68	#5	7'-8"	
e10(E)	32	#4	14'-8"	
e11(E)	4	#8	14'-8"	
t10(E)	136	#4	9'-8"	
w10(E)	160	#5	15'-8"	
Concrete Superstructure			Cu. Yd.	6.7
Concrete Superstructure (Approach Slab)			Cu. Yd.	90.9
Concrete Structures			Cu. Yd.	19.8
Reinforcement Bars, Epoxy Coated			Pound	36670
Bar Splicers			Each	292

* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 077-0041

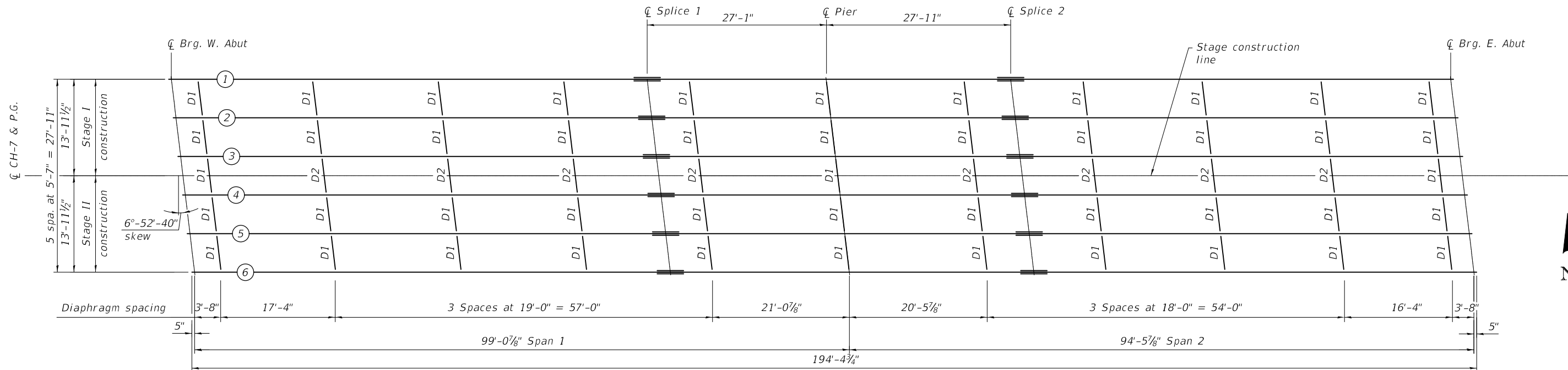
SHEET NO. 15 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	61
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

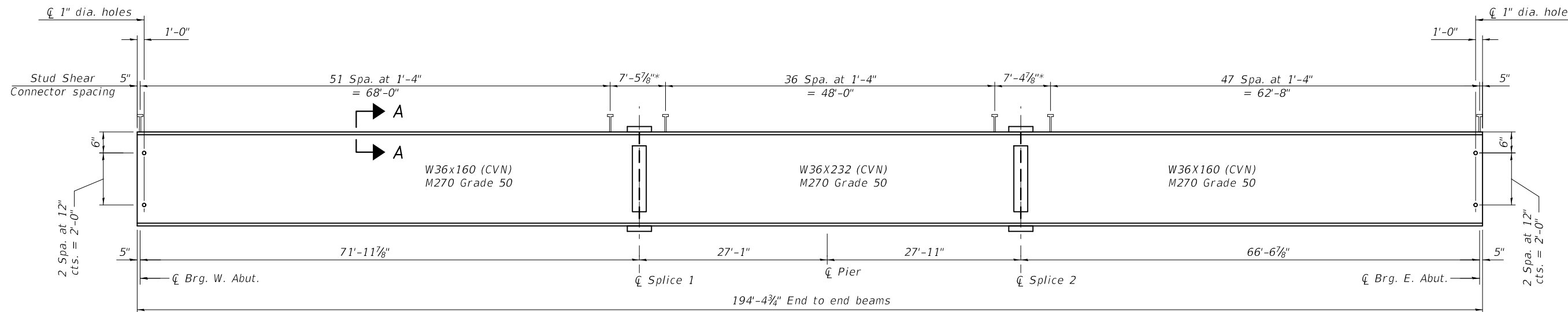
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SCALE - 1" = 10'
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PLOT TIME - 7:58:46 AM
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ESCA PROJECT NO.	1259.09	CHECKED -	KJA/ELH	05/18	REVISED -	
PLOT SCALE =	0:2" / in.	DRAWN -	KAH/JMK	08/18	REVISED -	
PLOT DATE =	12/11/2018 7:58:46 AM	CHECKED -	KJA	11/18	REVISED -	



PLAN



BEAM ELEVATION

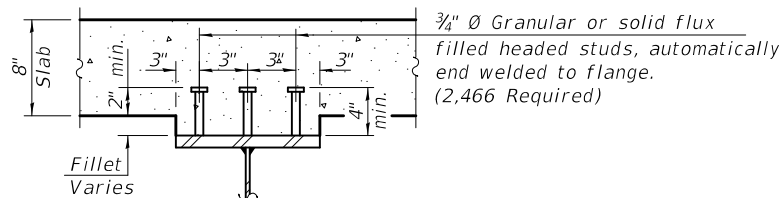
* Omit shear connectors over splices

Notes:

See sheet 17 of 26 for additional steel details.

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated (CVN) denotes Charpy-V-Notch impact energy requirements, Zone 2.



SECTION A-A

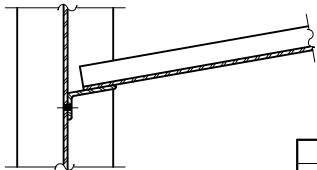
TOP OF BEAM ELEVATIONS

(For fabrication only)

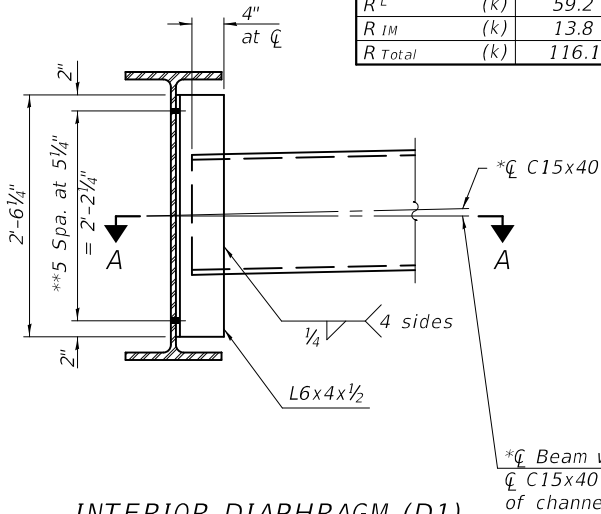
Beam	℄ Brg. W. Abut.	℄ Splice 1 W36x160	℄ Splice 1 W36x232	℄ Pier	℄ Splice 2 W36x232	℄ Splice 2 W36x160	℄ Brg. E. Abut.
1	363.01	362.59	362.64	362.31	361.98	361.93	360.93
2	363.10	362.68	362.73	362.41	362.08	362.03	361.01
3	363.18	362.76	362.81	362.48	362.15	362.10	361.08
4	363.18	362.76	362.81	362.48	362.14	362.09	361.07
5	363.09	362.66	362.71	362.38	362.05	362.00	360.97
6	363.00	362.56	362.61	362.28	361.94	361.89	360.87

Notes:

Elevations shown do not include deflection and are intended only for use in fabrication of steel beams. Elevations at splice locations are top of flange (not splice plate).



SECTION A-A



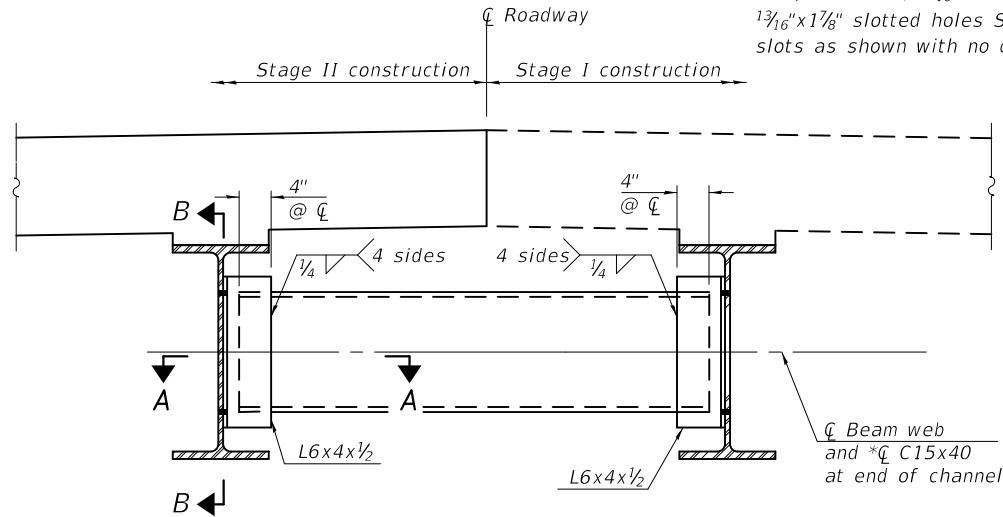
INTERIOR DIAPHRAGM (D1)
(47 Required)

Notes:

Two hardened washers required for each set of oversized holes.

*Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.

**3/4" HS bolts, 1 5/16" holes

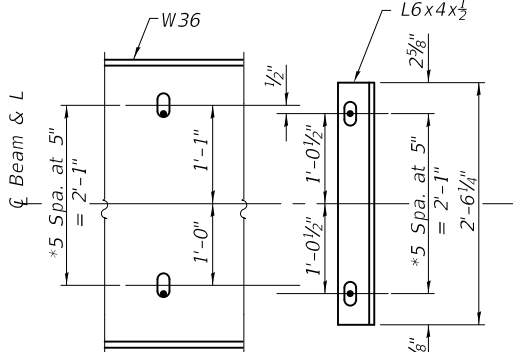


INTERIOR DIAPHRAGM - D2
(8 Required)

Note:

*Alternate channels C15X50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.

GIRDER REACTION TABLE						
	West Abut.		Pier		East Abut.	
	Interior	Exterior	Interior	Exterior	Interior	Exterior
LLDF	0.64	0.57	0.64	0.57	0.64	0.57
OCF	1.02	1.02	-	-	1.02	1.02
RDC1 (k)	27.6	27.6	100.9	100.8	25.5	25.5
RDC2 (k)	5.4	5.4	18.7	18.7	5.0	5.0
RDW (k)	10.1	10.1	34.8	34.8	9.3	9.3
R ^L (k)	59.2	52.3	113.9	100.7	58.4	51.6
R _{IM} (k)	13.8	12.2	22.5	19.9	13.7	12.1
R _{Total} (k)	116.1	107.6	290.8	274.9	111.9	103.5



SECTION B-B

(Showing Stage II Connection)

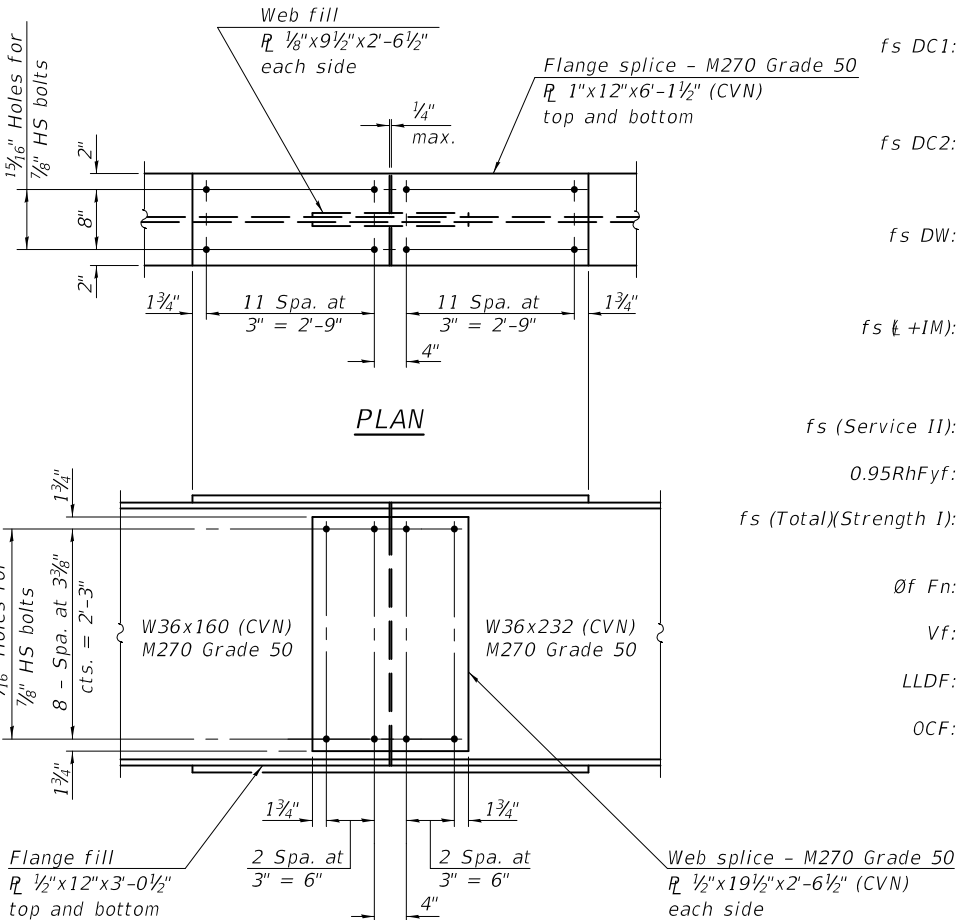
Notes:

Two hardened washers required for each set of oversized holes.

Bolts in slots shall be finger tight until the second stage pour is complete. Fully tighten after Stage II deck pour is complete.

*3/4" HS bolts, 1 5/16" holes Stage I connection, 1 3/16"x1 7/8" slotted holes Stage II connection. Position slots as shown with no concrete load present.

INTERIOR GIRDER MOMENT TABLE			
	0.4 Sp. 1	Pier	0.6 Sp. 2
Is	(in ⁴) 9,760	15,000	9,760
Ic(n)	(in ⁴) 24,101	33,280	24,101
Ic(3n)	(in ⁴) 17,543	24,051	17,543
Ic(cr)	(in ⁴) -	17,894	-
Ss	(in ³) 542	809	542
Sc(n)	(in ³) 772	1,100	772
Sc(3n)	(in ³) 695	992	695
Sc(cr)	(in ³) -	877	-
DC1	(k/ft) 0.743	0.815	0.743
MDC1	(k) 494.3	1058.0	415.6
DC2	(k/ft) 0.150	0.150	0.150
MDC2	(k) 96.4	200.6	80.5
DW	(k/ft) 0.280	0.280	0.280
MDW	(k) 180.0	374.5	150.2
LLDF	0.492	0.494	0.496
M _L + IM	(k) 1053.4	1129.3	1009.4
Mu (Strength I)	(k) 2,852.0	4,111.0	2,612.0
Øf Mn	(k) 3,779.0	4,502.0	3,779.0
fs DC1	(ksi) 10.94	15.69	9.20
fs DC2	(ksi) 1.66	2.74	1.39
fs DW	(ksi) 3.11	5.12	2.59
fs (L+IM)	(ksi) 16.37	15.45	15.69
fs (Service II)	(ksi) 37.00	43.64	33.58
0.95Rh Fyf	(ksi) 47.50	47.50	47.50
fs (Total)(Strength I)	(ksi) -	-	-
Øf Fn	(ksi) -	-	-
Vf	(k) 178.3	275.8	164.5



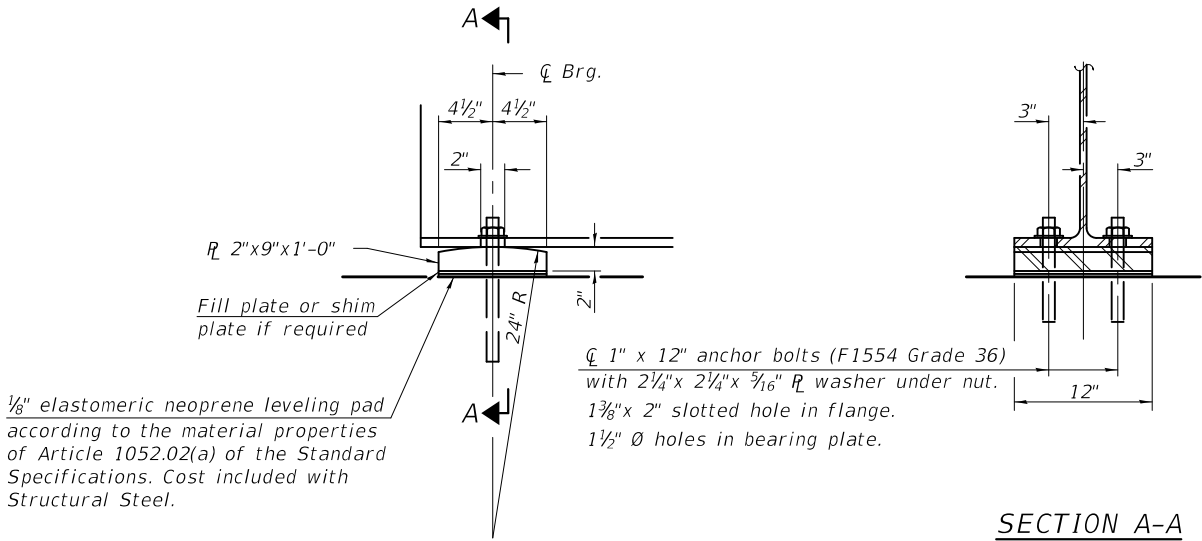
PLAN

ELEVATION

SPLICE DETAIL

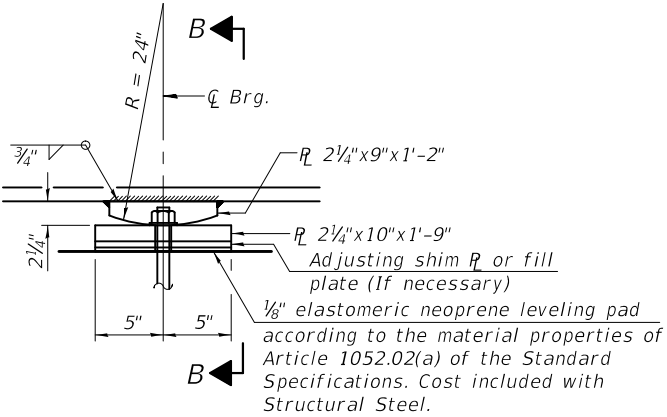
(12 Required)

- Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).
- Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_L + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- Mu (Strength I): Factored design moment (kip-ft.).
- 1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_L + IM
- Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
- fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
- MDC1/ Snc
- fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
- MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.
- fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
- MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.
- fs L+IM: Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
- M_L + IM / Sc(n) or M_L + IM / Sc(cr) as applicable.
- fs (Service II): Sum of stresses as computed below (ksi).
- fsDC1 + fsDC2 + fsDW + 1.3 fs(L+IM)
- 0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
- 1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs(L+IM)
- Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
- Vf: Maximum factored shear range in span computed according to Article 6.10.10.
- LLDF: Live Load Distribution factor computed according to Table 4.6.2.2.2b-1 and Table 4.6.2.2.2d-1.
- OCF: Obtuse correction factor computed according to Table 4.6.2.2.3c-1 or as simplified in Section 3.3.1 of the Bridge Manual.



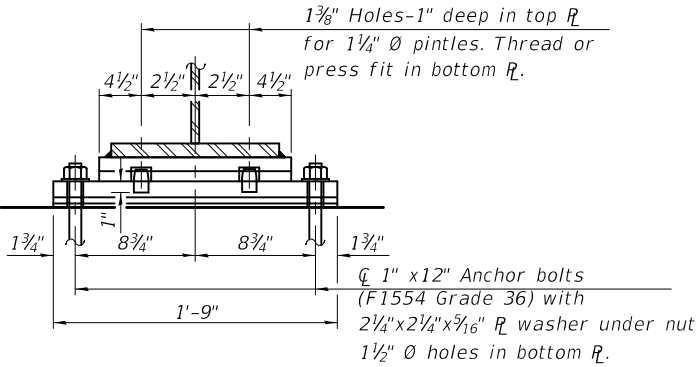
ELEVATION AT ABUTMENT

FIXED BEARING AT ABUTMENT



ELEVATION AT PIER

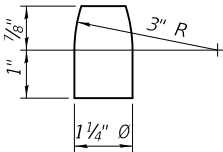
FIXED BEARING AT PIER



SECTION B-B

BEARING FILL PLATES

Location		Thickness
East Abutment	Beam 3	1/8"



PINTLE

Notes:

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

Anchor bolts shall be according to Article 521.06 of the Standard Specifications.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Fill plates are required at the locations shown in the table on this sheet and shall be placed as shown on bearing details.

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

The anchor bolt sizes and grades shown in the Fixed Bearing at Pier detail constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	36

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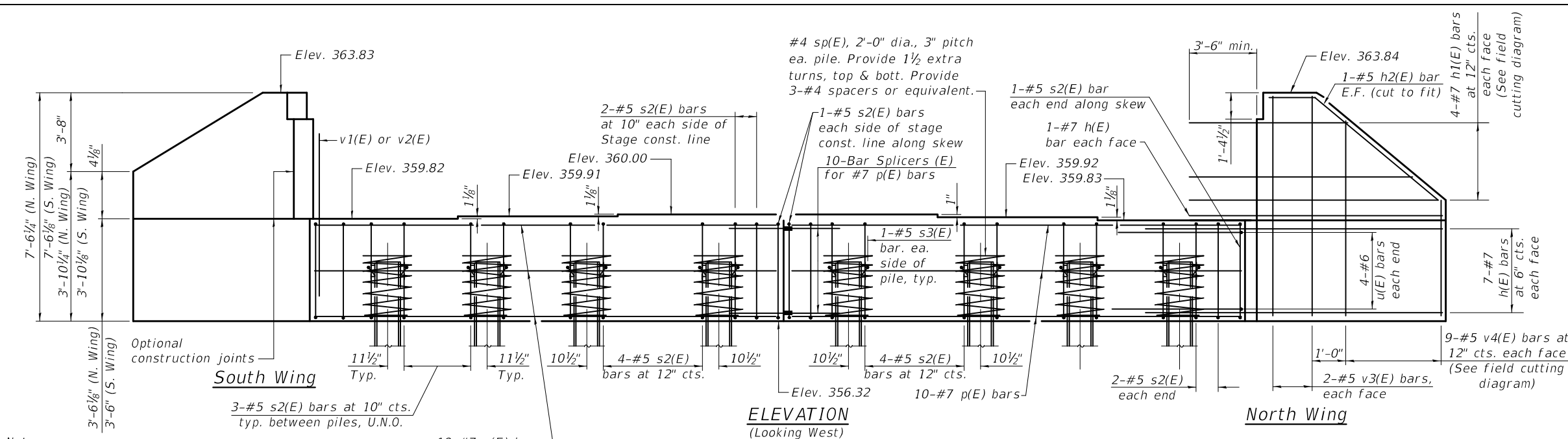
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

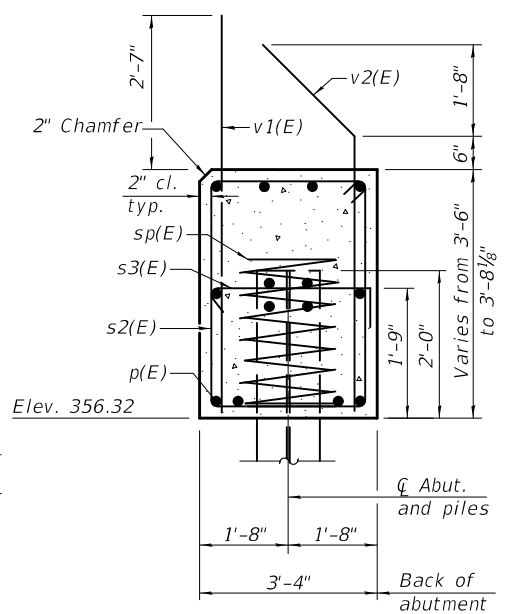
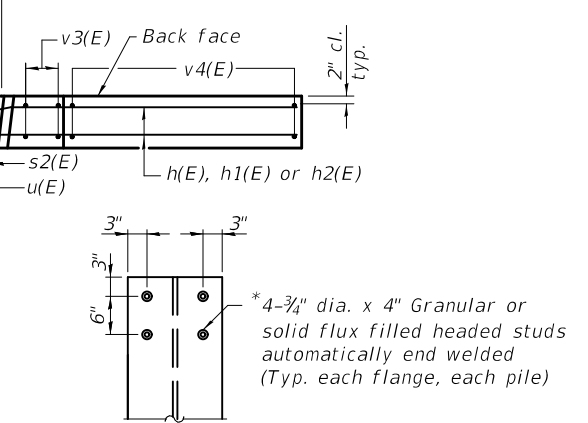
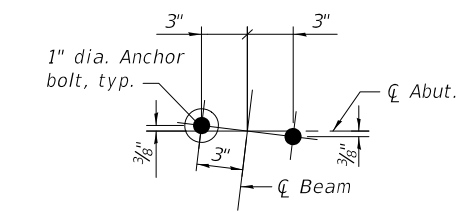
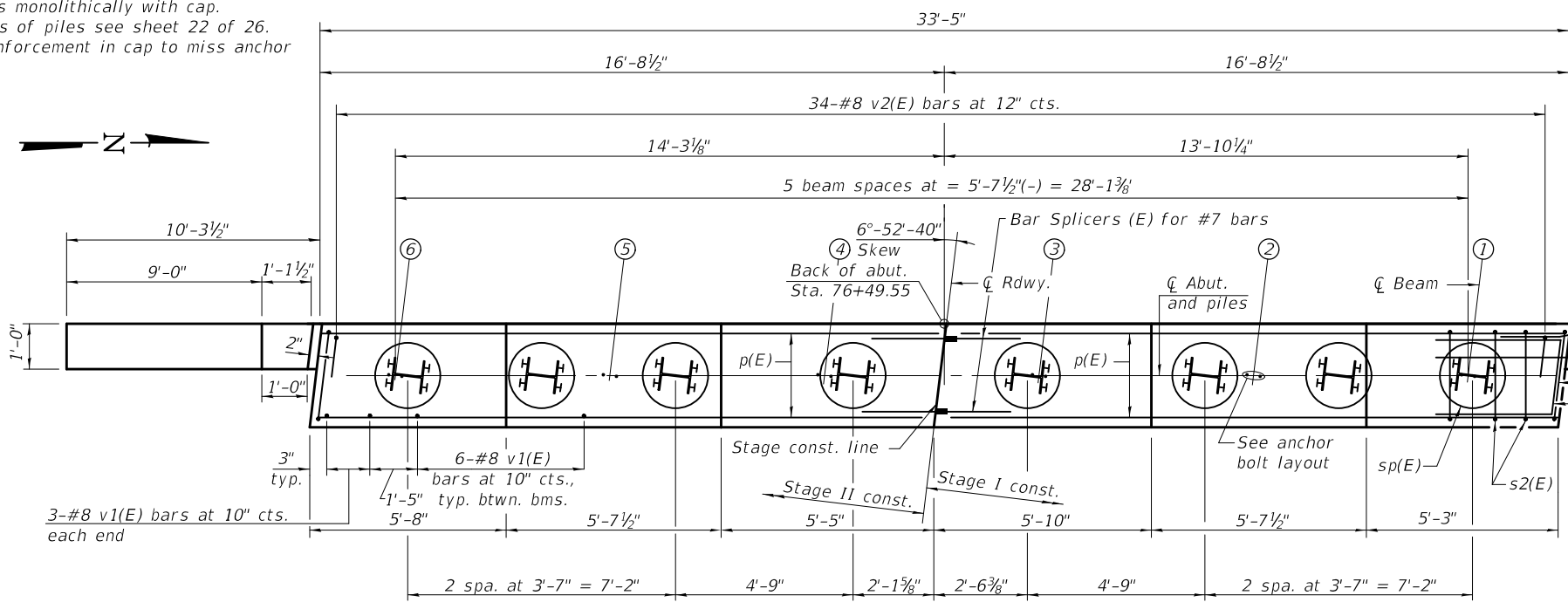
BEARING DETAILS
STRUCTURE NO. 077-0041

SHEET NO. 18 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	64
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				



Notes:
Pour steps monolithically with cap.
For details of piles see sheet 22 of 26.
Space reinforcement in cap to miss anchor bolts.



SEC. THRU ABUT.
Dimensions at right angles to abutment.

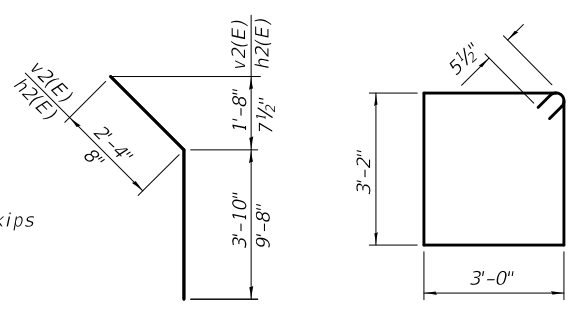
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#7	13'-6"	
h1(E)	8	#7	21'-7"	
h2(E)	4	#5	10'-4"	
p(E)	20	#7	16'-4"	
s2(E)	32	#5	13'-3"	
s3(E)	16	#5	4'-0"	
sp(E)	8	#4	2'-0"	
u(E)	8	#6	10'-7"	
v1(E)	36	#8	5'-11"	
v2(E)	34	#8	6'-2"	
v3(E)	8	#5	7'-2"	
v4(E)	18	#5	10'-6"	
Structure Excavation		Cu. Yd.	75	
Concrete Structures		Cu. Yd.	19.3	
Reinforcement Bars, Epoxy Coated		Pound	4340	
Furnishing Steel		Foot	504	
Piles HP14x117		Each	1	
Test Pile Steel HP14x117		Foot	504	
Driving Piles		Each	8	
Pile Shoes		Each	10	
Bar Splicers		Each	10	

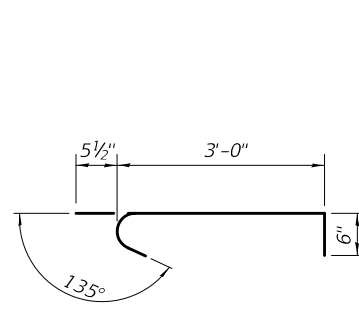
** Length is height of spiral.

PILE DATA

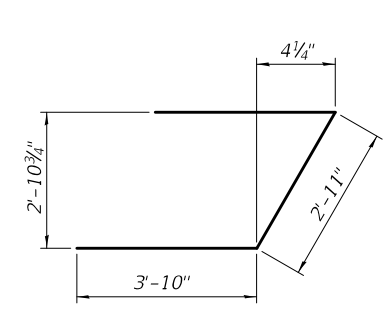
Type: HP14x117
Nominal Required Bearing: 929 kips
Factored Resistance Available: 511 kips
Est. Length: 72'
No. Production Piles: 7
No. Test Piles: 1



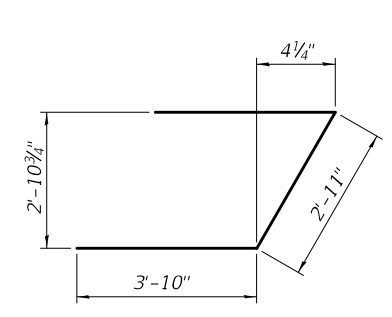
BARS v2(E) & h2(E)



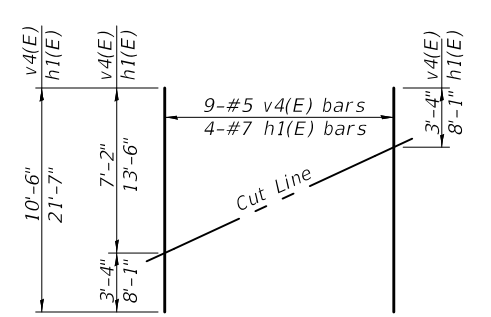
BAR s2(E)



BAR s3(E)



BAR u(E)



FIELD CUTTING DIAGRAM
Order v4(E) & h1(E) full length.
Cut as shown and use remainder of bars in opposite face.

PRINT DRIVER - 8/10/2018
SCALE NAME - 0.2\"/>



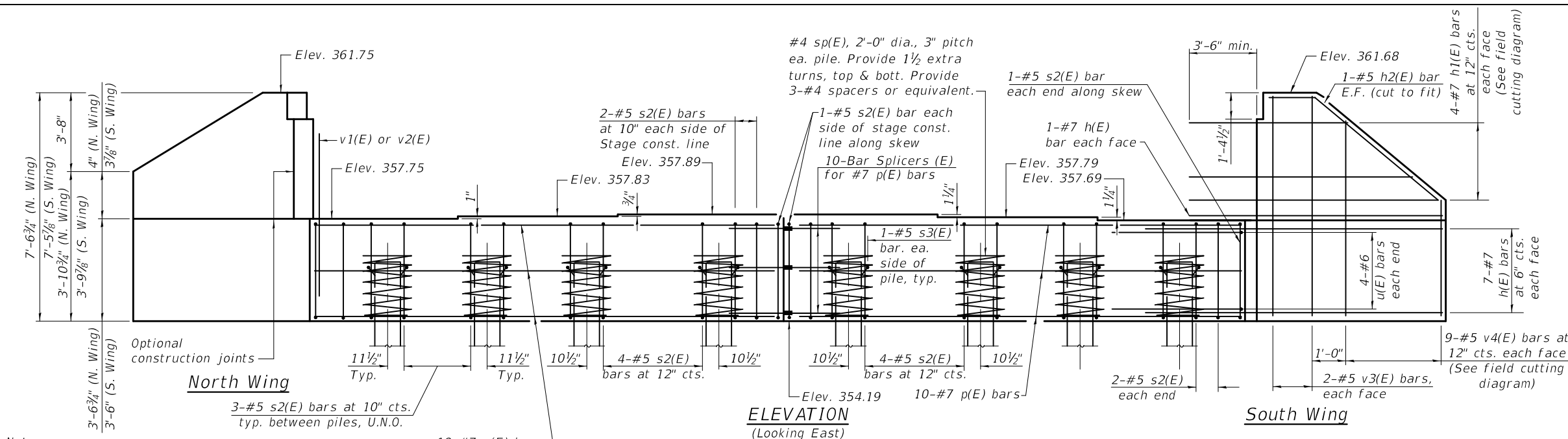
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

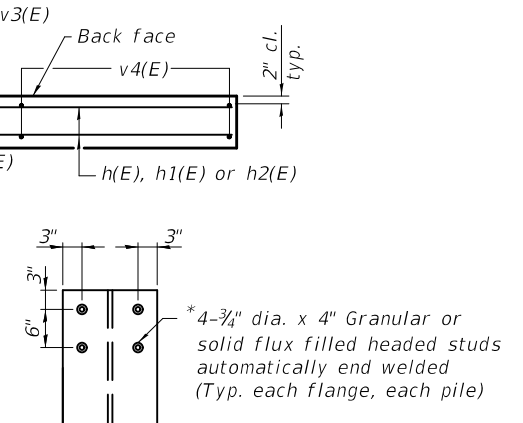
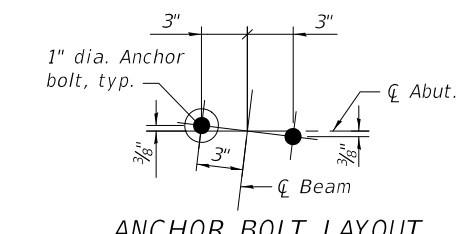
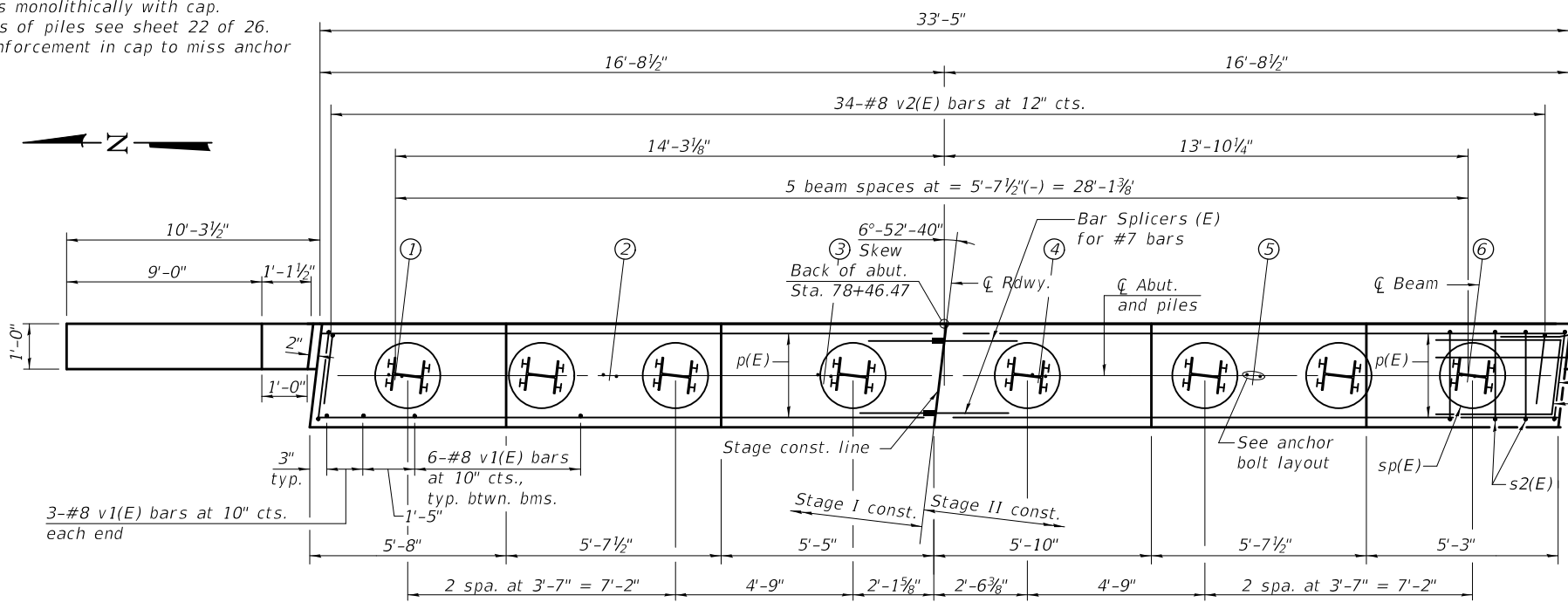
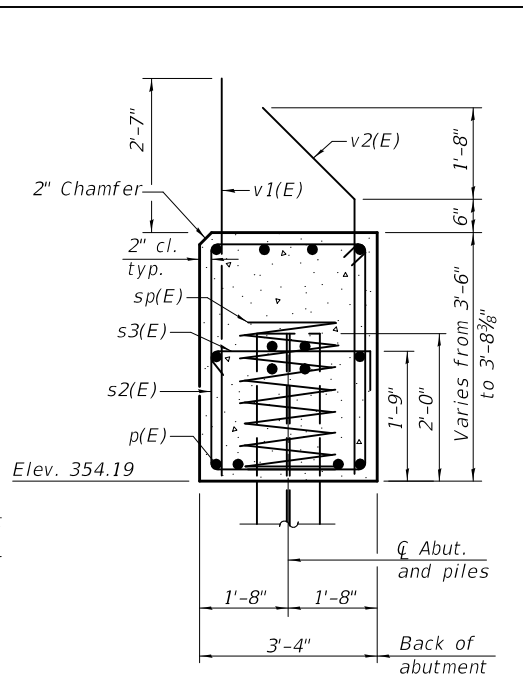
WEST ABUTMENT
STRUCTURE NO. 077-0041

SHEET NO. 19 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	65
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

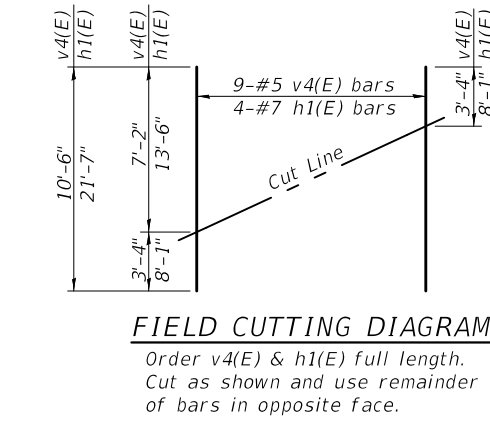
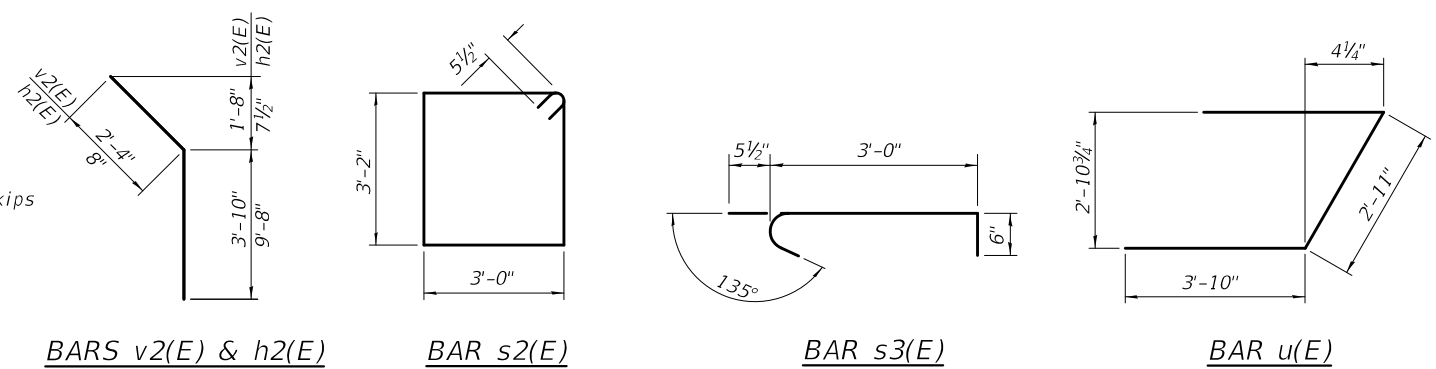


Notes:
Pour steps monolithically with cap.
For details of piles see sheet 22 of 26.
Space reinforcement in cap to miss anchor bolts.



BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
h(E)	32	#7	13'-6"	
h1(E)	8	#7	21'-7"	
h2(E)	4	#5	10'-4"	
p(E)	20	#7	16'-4"	
s2(E)	32	#5	13'-3"	
s3(E)	16	#5	4'-0"	
sp(E)	8	#4	2'-0"	
u(E)	8	#6	10'-7"	
v1(E)	36	#8	5'-11"	
v2(E)	34	#8	6'-2"	
v3(E)	8	#5	7'-2"	
v4(E)	18	#5	10'-6"	
Structure Excavation				
Concrete Structures			Cu. Yd.	70
Reinforcement Bars, Epoxy Coated			Cu. Yd.	19.3
Furnishing Steel Piles HP14x117			Pound	4340
Test Pile Steel HP 14x117			Foot	707
Driving Piles			Each	1
Pile Shoes			Foot	707
Bar Splicers			Each	8
			Each	10
** Length is height of spiral.				

PILE DATA
Type: HP14x117
Nominal Required Bearing: 542 kips
Factored Resistance Available: 298 kips
Est. Length: 101'
No. Production Piles: 7
No. Test Piles: 1

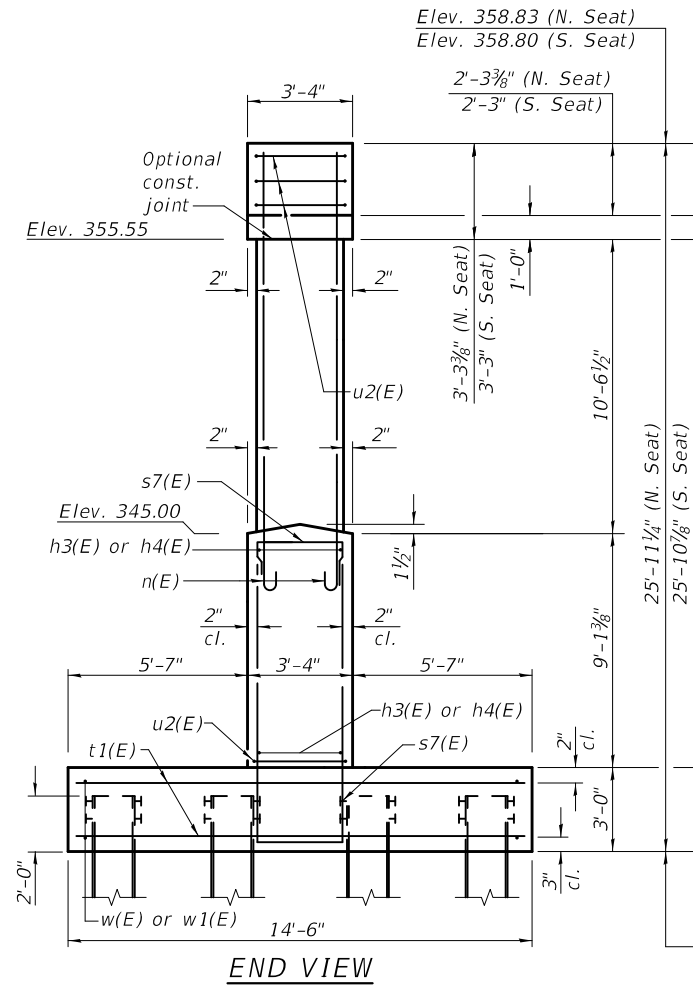


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PLOT DATE: 12/11/2018 7:58:51 AM

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 22 of 26.

PILE DATA

Type: HP14x89
Nominal Required Bearing: 705k
Factored Resistance Available: 388k
Est. Length: 85'
No. Production Piles: 25
No. Test Piles: 1

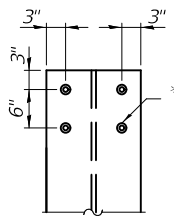


END VIEW

A & B DIMENSIONS

Bar	A	B
s5(E)	3'-0"	2'-3"
s6(E)	3'-0"	3'-0"
s7(E)	3'-0"	11'-9"

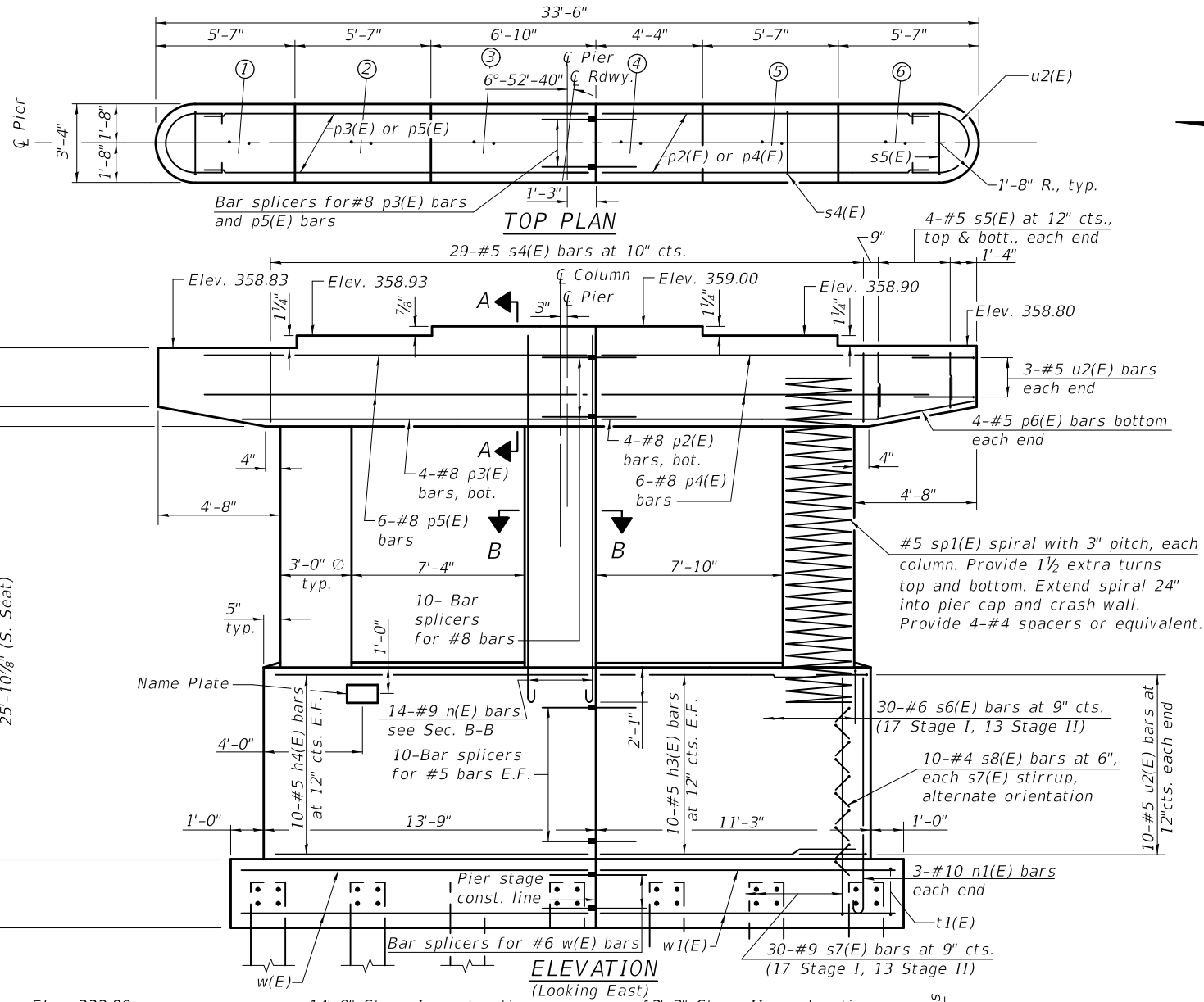
BARS s5(E), s6(E) & s7(E)



* 4-3/4" dia. x 4" Granular or solid flux filled headed studs automatically end welded (Typ. each flange, each pile)

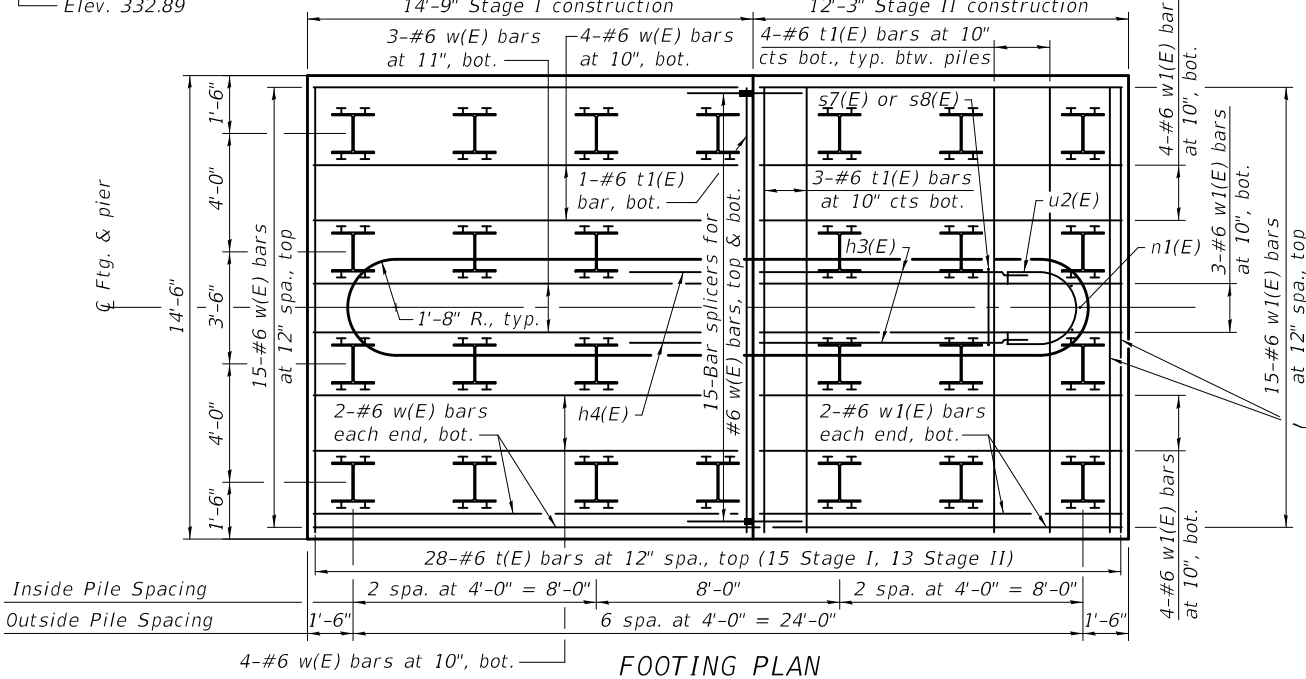
SHEAR STUD DETAIL

* Cost included with Furnishing Piles.

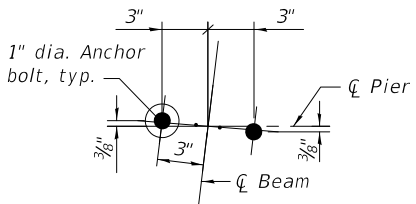
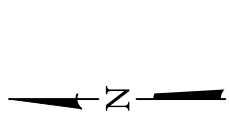


TOP PLAN

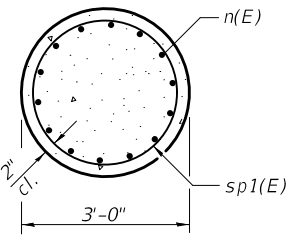
ELEVATION (Looking East)



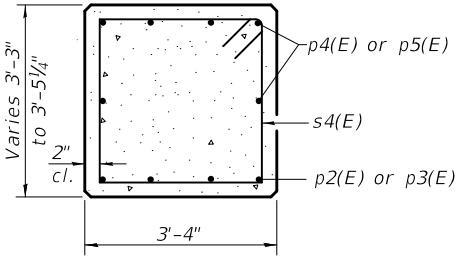
FOOTING PLAN



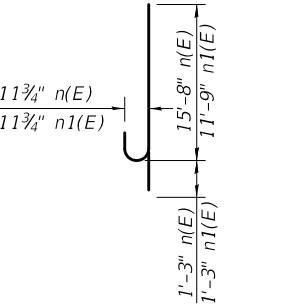
ANCHOR BOLT LAYOUT



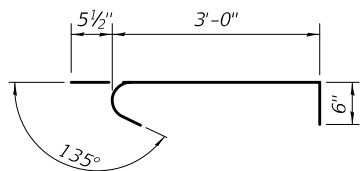
SEC. B-B



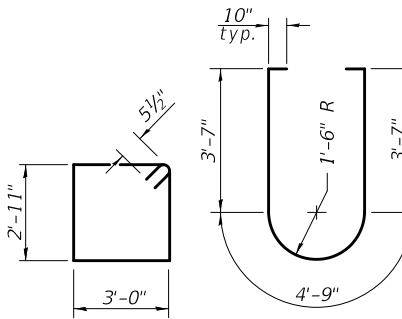
SEC. A-A



BARS n(E) & n1(E)



BAR s8(E)



BAR s4(E)

BAR u2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	20	#5	9'-5"	—
h4(E)	20	#5	11'-11"	—
n(E)	42	#9	16'-11"	U
n1(E)	6	#9	13'-0"	U
p2(E)	4	#8	10'-10"	—
p3(E)	4	#8	13'-4"	—
p4(E)	6	#8	13'-8"	—
p5(E)	6	#8	16'-2"	—
p6(E)	8	#5	4'-1"	—
s4(E)	29	#5	12'-9"	□
s5(E)	16	#5	7'-6"	□
s6(E)	30	#6	9'-0"	□
s7(E)	30	#9	26'-6"	□
s8(E)	300	#4	4'-0"	┐
sp1(E)	3	#5	14'-7"	W
t1(E)	56	#6	14'-2"	—
u2(E)	26	#5	13'-7"	—
w(E)	30	#6	14'-5"	—
w1(E)	30	#6	11'-11"	—
Structure Excavation	Cu. Yd.	130		
Concrete Structures	Cu. Yd.	92.4		
Reinforcement Bars, Epoxy Coated	Pound	12700		
Furnishing Steel Piles HP 14x89	Foot	2125		
Driving Piles	Foot	2125		
Test Pile Steel HP 14x89	Each	1		
Pile Shoes	Each	26		
Bar Splicers	Each	60		

** Length is height of spiral.

PRINT DRIVER - 8/10/2018
SCALE NAME - 0.2" = 1'-0"
FILE NAME - 201804170454-21-pier.dgn



USER NAME	=	kjk
ESCA PROJECT NO.	=	1259.09
PLOT SCALE	=	0:2" = 1' in.
PLOT DATE	=	12/11/2018 7:58:51 AM

DESIGNED	-	KJA	05/18
CHECKED	-	RTM/ELH	05/18
DRAWN	-	KAH/JMK	08/18
CHECKED	-	KJA	11/18

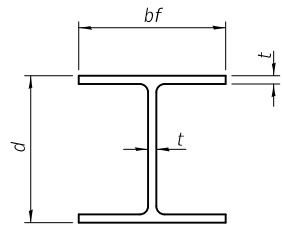
REVISED	-		
REVISED	-		
REVISED	-		
REVISED	-		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER
STRUCTURE NO. 077-0041

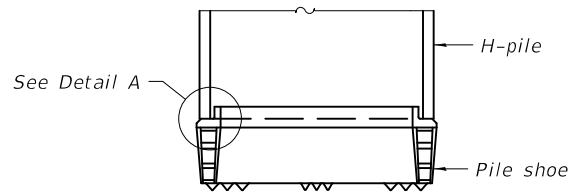
SHEET NO. 21 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	67
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

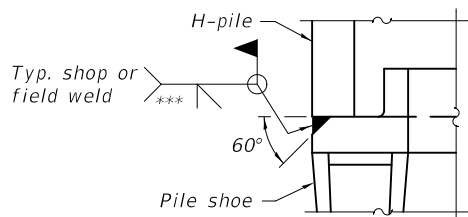


STEEL PILE TABLE

Designation	Depth d	Flange width bf	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 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 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"



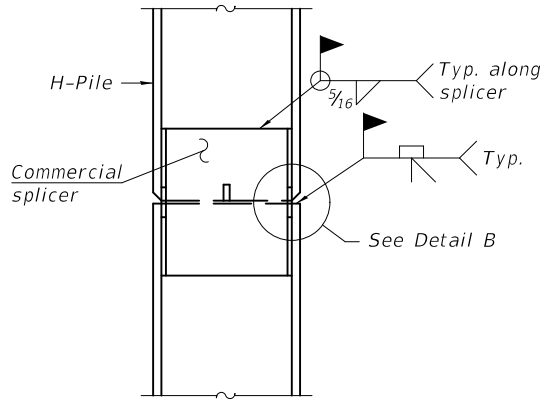
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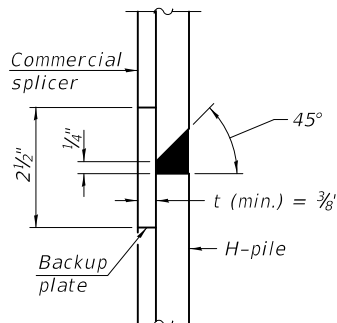
DETAIL A

SHOE ATTACHMENT

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

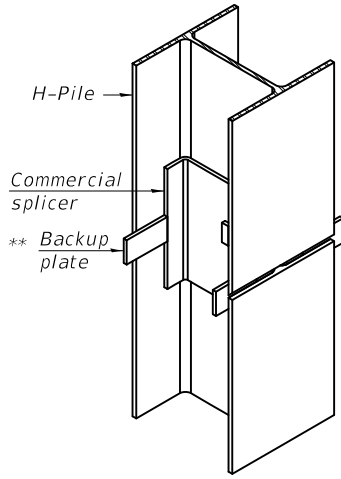


ELEVATION

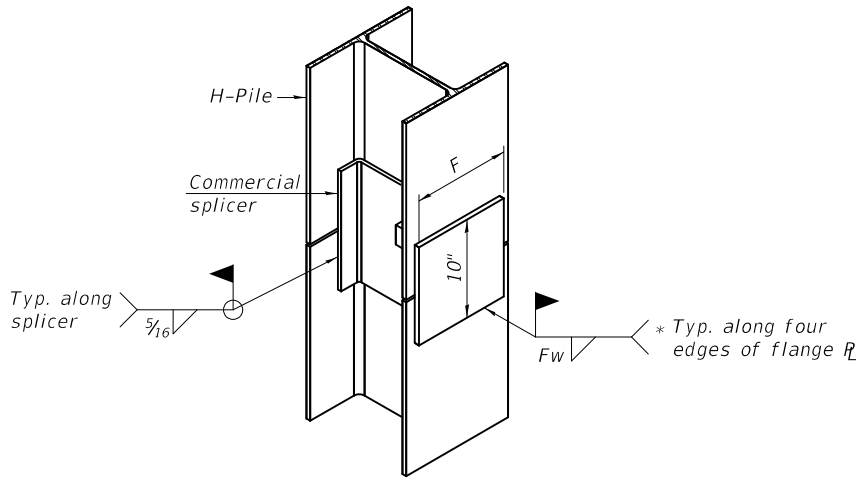


DETAIL "B"

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



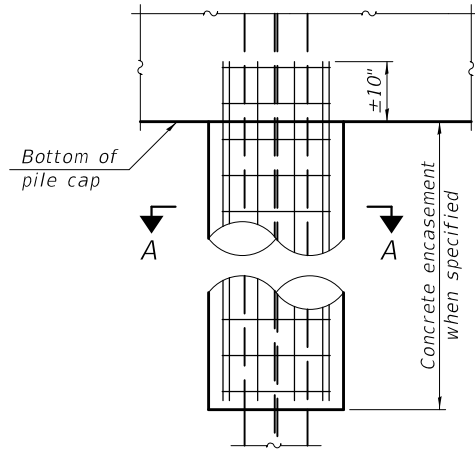
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

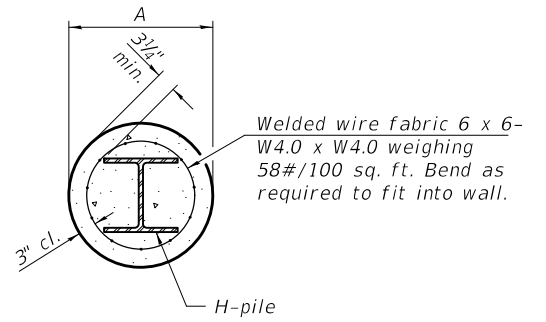
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).

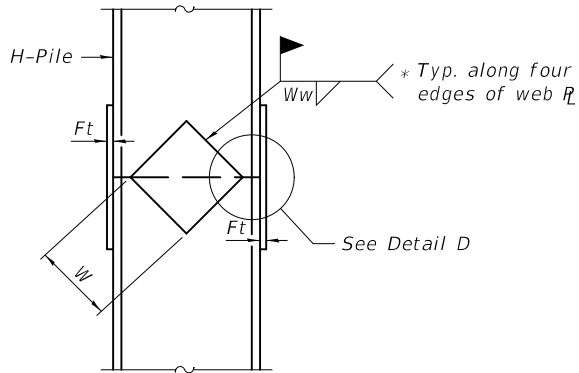


ELEVATION

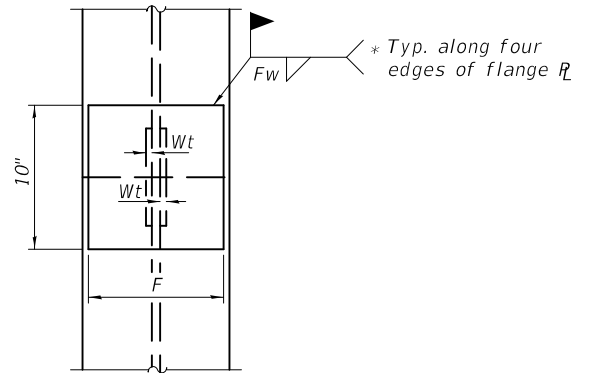


SECTION A-A

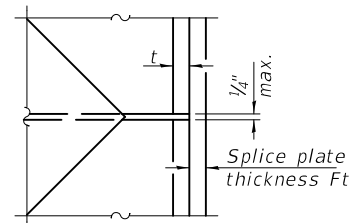
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(Forms for encasement may be omitted when
soil conditions permit).



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
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 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 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 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 PLATE FIELD SPLICE

F-HP

8-11-2017

PRINT DRIVER = 8/11/2017
SCALE NAME = F-HP
FILE NAME = 8-11-2017-178454-22-HP-HP-1.dgn



USER NAME = kjk
ESCA PROJECT NO. 1259.09
PLOT SCALE = 0:2" = 1/4" in.
PLOT DATE = 12/11/2018 7:58:52 AM

DESIGNED - KJA 05/18
CHECKED - RDP 05/18
DRAWN - KAH/JMK 08/18
CHECKED - KJA 08/18

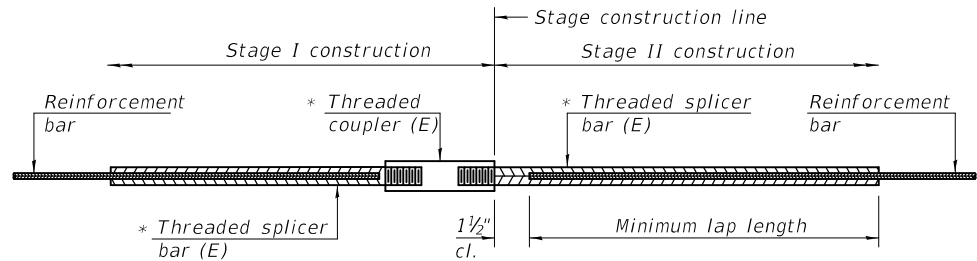
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 077-0041

SHEET NO. 22 OF 26 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
57 (77-1-3)HB-2 PULASKI 92 68
CONTRACT NO. 78454
ILLINOIS FED. AID PROJECT

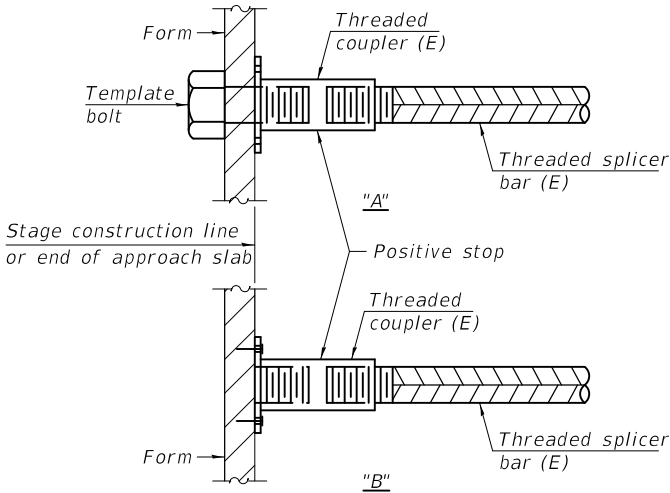


STANDARD BAR SPLICER ASSEMBLY

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

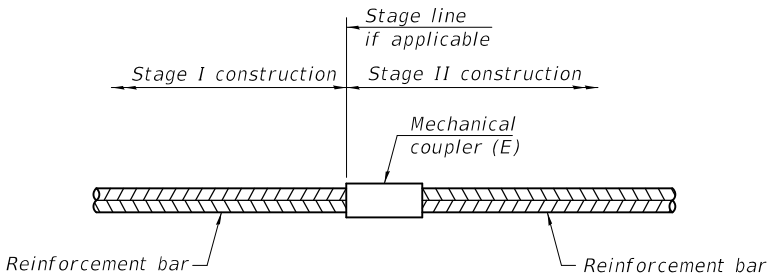
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top of Slab	#5	330	3'-0"
Bottom of Slab	#5	232	3'-6"
Diaphragms	#6	10	4'-0"
Top of Approach	#5	92	3'-4"
Bottom of Approach	#8	120	4'-9"
Top of Approach Ftg.	#5	40	3'-2"
Bottom of Approach Ftg.	#5	40	3'-2"
West Abutment	#7	10	5'-0"
East Abutment	#7	10	5'-0"
Crash Wall	#5	20	3'-7"
Pier Cap	#8	10	5'-9"
Top of Pier Footing	#6	15	4'-4"
Bottom of Pier Footing	#6	15	3'-10"



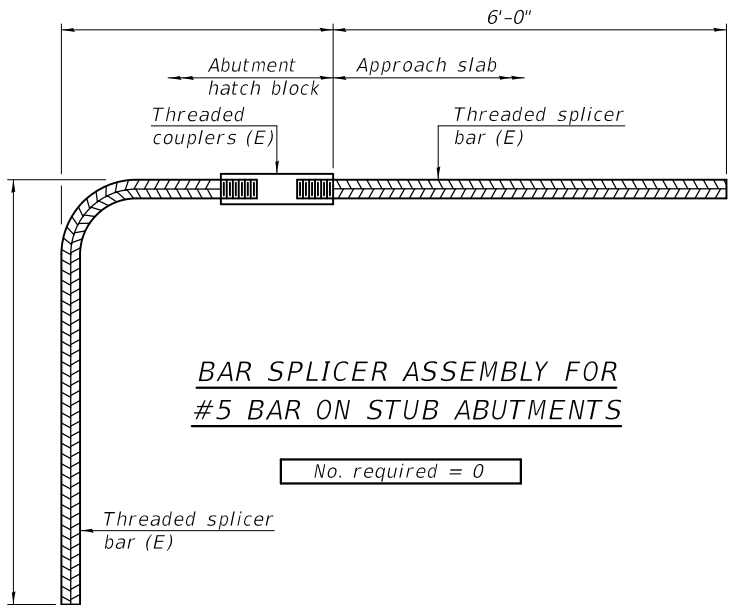
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

NOTES

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

PRINT DRIVER = #LUTWIS
SCALE NAME = #PLOT
ALL NAME = 0770041 78454-23-BSP-001.dgn

BSD-1

2-17-2017



USER NAME =	kjk	DESIGNED -	KJA	05/18	REVISED -
ESCA PROJECT NO.	1259.09	CHECKED -	RTM/ELH	05/18	REVISED -
PLOT SCALE =	0:2' = 1" / in.	DRAWN -	KAH/JMK	08/18	REVISED -
PLOT DATE =	12/11/2018 7:58:53 AM	CHECKED -	KJA	11/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 077-0041

SHEET NO. 23 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	69
CONTRACT NO. 78454				
ILLINOIS FED. AID PROJECT				

Checked By: R Graeff

S	
---	--

Boring No	D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev:	D E P T H	B L O W S	Qu tsf	W%
Station 77+53					Ground Water Elevation				
Offset 51' Rt CL FAS 938					when Drilling 335.3				
Ground Surface 339.8 Ft					At Completion				
					At: Hrs:				
Very stiff, moist, grey and brown, Clay to Silty Clay A7-6					Soft to medium, very moist, grey, Silty Clay to Clay A-6		WH 0.5B	27	
							WH		
					312.8				
		2			Stiff, moist, grey, Clay A7-6		WH		
		7 2.3S	17				1 1.2B	25	
		10					2		
335.3									
Soft, very moist, grey, Silty Clay Loam A-6	5.0	1				30.0	1		
		2 0.3B	25				2 1.3B	32	
		2					2		
332.8									
Stiff, moist, grey, Clay A7-6		1					WH		
		2 1.8B	27				1 1.2B	39	
		3					2		
330.3									
Medium, very moist, grey mottled brown, Silty Clay A-6	10.0	1				35.0	1		
		1 0.7B	31				2 1.7B	24	
		2					2		
327.8						302.8			
Soft, very moist, grey mottled brown, Silty Clay A-6		WH			Medium, very moist, grey, Clay A7-6		WH		
		WH 0.4B	30				WH 0.9B	30	
		1					1		
325.3						300.3			
Stiff, moist, grey mottled brown, Silty Clay to Clay A7-6	15.0	1			Stiff, moist, grey, Clay A7-6	40.0	1		
		2 1.2B	25				3 1.2B	29	
		2					4		
322.8									
Medium, very moist, grey brown, Silty Clay Loam A-6		WH							
		WH 0.6B	35						
		1							
						295.3			
20.0		1			Very stiff, moist, grey and brown, Clay A7-6	45.0	2		
		2 0.8S	31				5 2.9B	24	
		2					8		
317.8									
Stiff, moist to very moist, grey, Silt Loam to Silty Clay Loam A-4		1							
		2 1.2S	26						
		3							
315.3									
25.0		WH				50.0	1		

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

	H	
--	---	--

Boring No: 1-S	DEPTH	BLOWS	Qu tsf	W%		DEPTH	BLOWS	Qu tsf	W%
Station: 77+53									
Offset: 51' Rt CL FAS 938									
Ground Surface: 339.8 Ft									
Very stiff, moist, brown, Clay A7-6		4	2.1B	30	Very stiff, moist, grey, Clay A7-6 with Gravel		8	3.1B	20
		5					9		
285.3					260.3				
Stiff, moist to very moist, grey, Clay A7-6	55.0	WH			Very stiff, moist, red brown, Clay A7-6 with Gravel	80.0	3		
		1	1.1B	28			7	2.5B	35
		1					7		
280.3									
Medium, very moist, grey, Clay A7-6	60.0	1				85.0			
		1	0.8B	27					
		2							
275.3					252.3				
Soft, very moist, grey, Clay A7-6	65.0	WH			Hard, dry, grey, Limestone				
		WH	0.4B	27	Refusal at 89.0 feet	250.8			
		1							
					Cored 89.0 to 94.0 feet	90.0			
					60% Recovery; 43% RQD				
					Hard, dry, grey, Limestone with Clay layers (Boulders??)				
270.3					245.8				
Stiff, moist, grey, Clay A7-6	70.0	WH			Bottom of hole = 94.0 feet				
		2	1.2B	27	Free water observed at 4.5 feet	95.0			
		1			Elevation referenced to BM 300; Elevation = 341.3 feet				
					Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.)				
					To convert "N" values to "N60" multiply by 1.25				
75.0		6			100.0				

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

FAS 938-CH 7 (Shawnee College Road) Over FAI 57

Route: FAS 938-CH 7

Structure Number: 077-0026

Sheet 1 of 2

Date: 6/9/2015

Section 77-1HB-3

Bored By: R Moberly

County: Pulaski

Location:

Checked By: R Graeff

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Route: FAS 938-CH 7

Section: 77-1HB-3

County: Pulaski

Sheet 2 of 2

Date: 6/9/2015

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

This portion of Embankment backfill by Bridge Contractor after Abut. is in place.

Creo Timber Piles by Br. Contr.

Total Length - 65ft
No Regd. - 10

Natural Ground

Elev 337.9

Exp.

EL 338.12 +182:1

E.W. Lanes

F.A.I. Rt. 57
E.L. 342.0

Exp.

30 LF 108 Fix

16'-3" Min. Cl.

E.E. Lanes

F.A.I. Rt. 57
E.L. 342.0

See Detail "A"

Exp.

EL 335.85 +179:1

Concrete Piles

No. Ground

Elev 331.9

Crested Piles

E.L. 335.88

ELEVATION

207'-0" BL TO BL ABUTS

Class X Concrete shall be used throughout. Coarse aggregate which is to be used in end post must be absolutely free of chert, flint, limonite, lignite and soft sandstone.

The Concrete Floor Slab shall be poured in one continuous operation. Joints & shall be finished in accordance with Art. 519 of the Std. Specs. The Curb and Slab outside of longitudinal construction joint, shown on cross section, shall be poured monolithically.

All rivets shall be $\frac{3}{8}$ " unless noted.
All holes for splices shall be sub-punched $\frac{1}{16}$ "
and reamed to proper size: $\frac{1}{16}$ " for $\frac{3}{8}$ " rivets; $\frac{1}{8}$ "
for $\frac{7}{8}$ " rivets.

All rockers, bolster, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Art. 51.3 of the Standard Specifications and are included in quantity of structural steel. Estimated weight of this steel is 7746 lbs.

Anchor bolts at abutments shall be set before fastening diaphragms over supports.

All structural steel & metal handrail shall be inspected by the Illinois Div. of Highways before painting.

Structural Steel, except the Anchor bolts, shall receive one shop coat of red lead paint & two field coats of aluminum paint. See Art. 56.1 to 56.5 inclusive of the Std. Specs. All paint shall be furnished & applied by the Contractor.

The Slope Wall is to be reinforced with #4 gauge welded wire fabric 6"x6" mesh, & weighing not less than 58 lbs. per 100 sq. ft.

Welding shall comply with Art 51.5(a) of the
old Specifications.

Piles at abutments shall be precored in accordance with Art. 60.9(c) of the Standard Specifications.

No transverse Construction Joints shall be made in the slab except by written permission of the Engineer.

The Contractor shall drive 3 test piles; 1 concrete pile at East Abut. in a permanent location, and 2 timber test piles near pier 2 and pier 3, as directed by the Engineer before ordering the remainder of piles.

Structural Steel shall conform to ASTM specification A-36.

fc - 1,000 p.s.i. Super. & Sub
v - 75 p.s.i. Ftg.
fg - 20,000 p.s.i. Reinf.
fs - 18,000 p.s.i. Struct.
n = 10

Loading - H515-44

PROJECT I-57-1 (68)18

ULLIN INTERCHANGE

FA.I. RT. 57 SEC. 77-1HB-3

DULASKI COUNTY

STA. 227+71.90

[illegible]

ITEM	Super	Sub	Total
Protective Coat	39 yds.	819	819
Class A* Excavation	Cu Yds.		130
Bridge Seat Sealant	Lbs.	1	1
Class X Concrete	Cu Yds.	194.2'	206.2'
Structural Steel	Lbs.	163,280	163,280
Aluminum Handrail	Lin. Ft.	410'	410'
Reinforcement Bars	Lbs.	37,150	13,330
Crested Piles	Lin. Ft.		2,050
Test Piles (Timber)	Ea.	2'	2
Concrete Piles	Lin. Ft.	850'	850
Test Piles (Conc.)	Ea.	1'	1
Name Plates	Ea.	2	2
Slope Wall	Cu Yds.	422	422

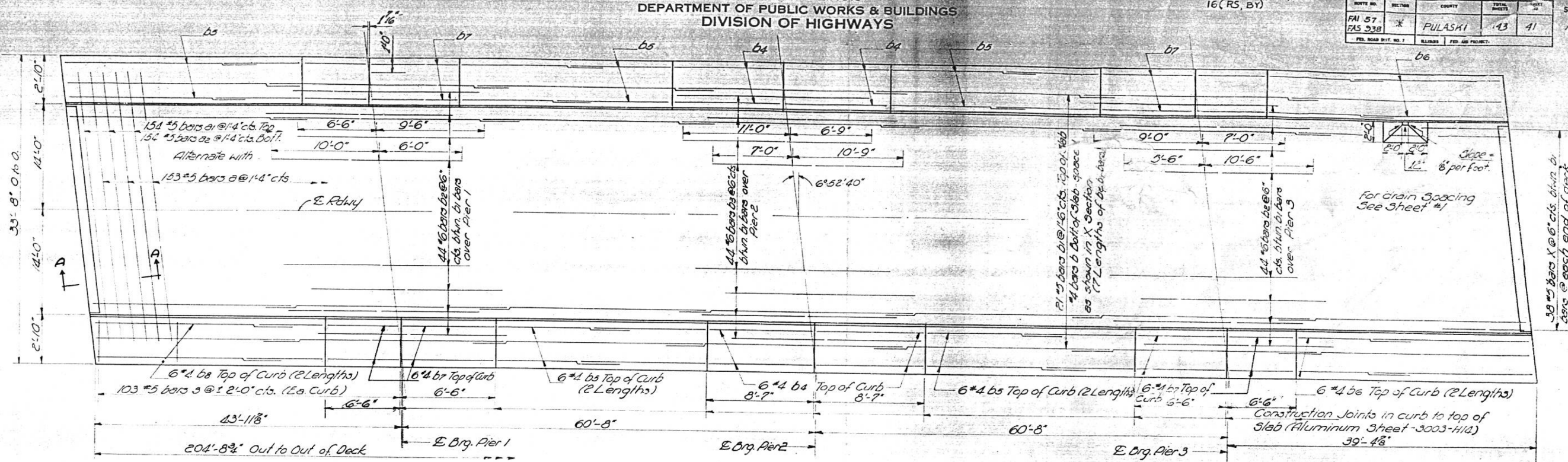
* Includes Cut-off Wall ** Applied at Abutments

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

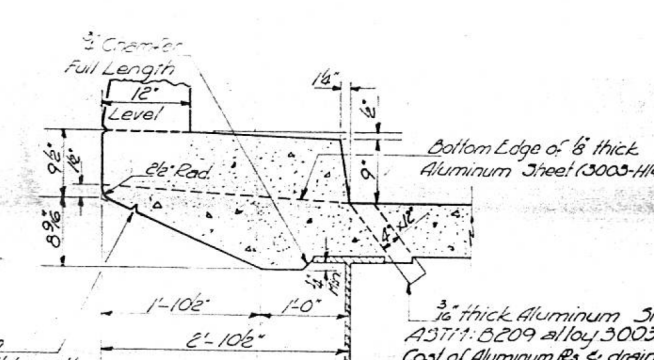
* 77-1(3)HB-3, B-3, B-4
16 (RS, BY)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57 FAS 338	*	PULASKI	43	41
FED. ROAD DIST. NO. 1	SLURRY	FED. AID PROJECT		

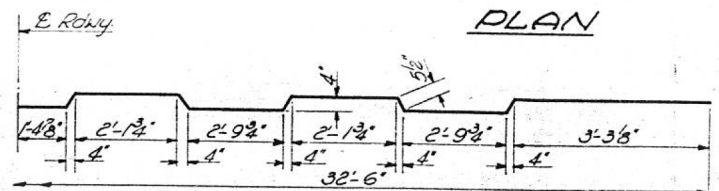
SHEET NO. 2
10 SHEETS



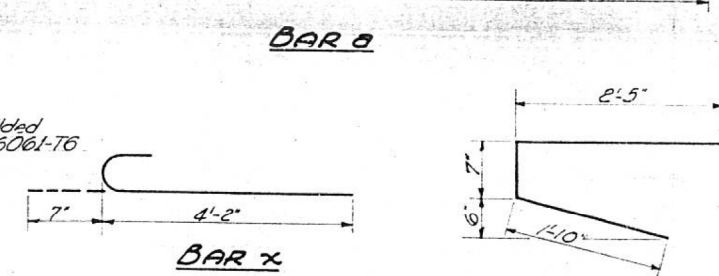
PLAN



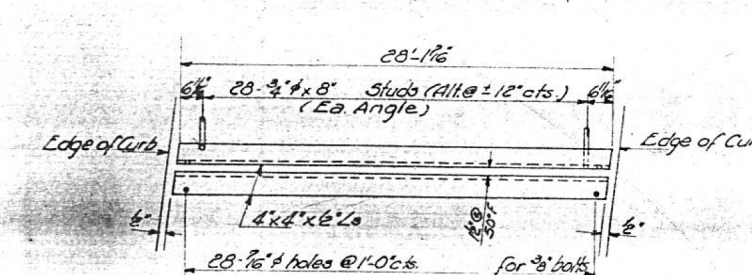
CURB DETAIL



BAR a



BAR x

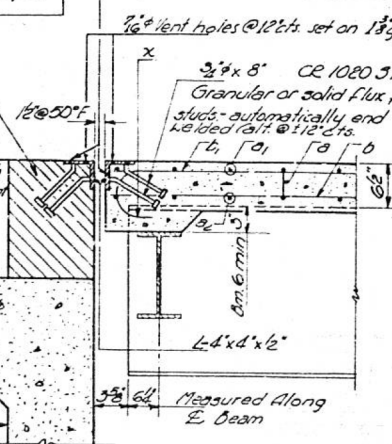


EXPANSION GUARD DETAIL

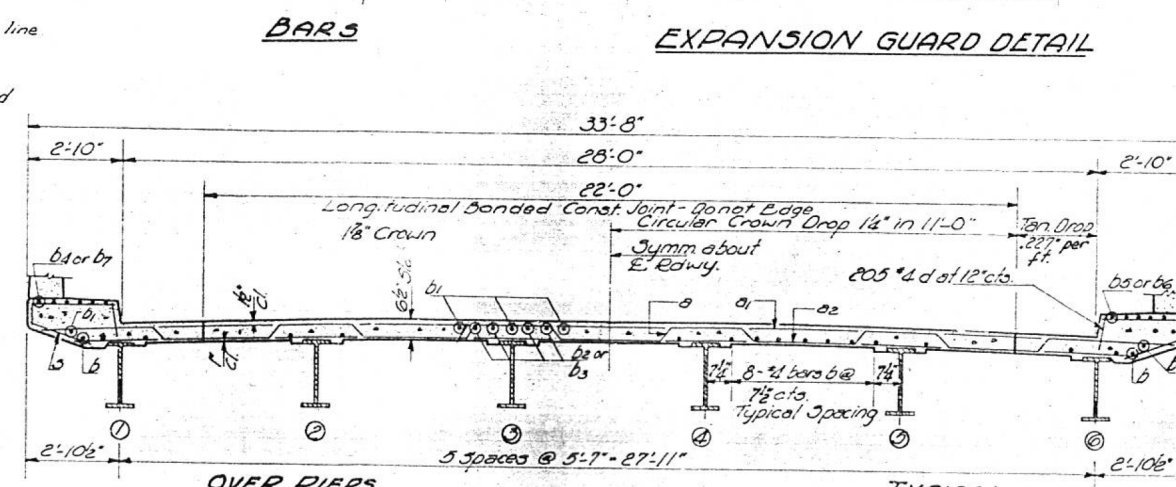
BILL OF MATERIAL

Bar	No	Size	Length	Shape
a	153	5	33'-9"	
a1	154	5	32'-6"	
a2	151	5	30'-0"	
b	308	4	30'-0"	
b1	147	5	30'-3"	
b2	88	6	16'-0"	
b3	41	6	17'-9"	
b4	24	4	8'-0"	
b5	48	4	23'-0"	
b6	24	4	16'-9"	
b7	48	4	6'-0"	
b8	24	4	19'-0"	
d	410	4	1'-3"	
s	206	5	4'-10"	
x	76	5	4'-9"	
Class X Concrete				Cu. Yds. 171.0
Reinforcement Bars				Lbs. 32,920
Structural Steel				Lbs. 163,280

METHOD OF DETERMINING FILLET HEIGHT "f"
After all structural steel has been erected elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 ft. From these elevations subtract the increment of deflections for these points, determined from D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations, minus floor thickness, equals the fillet heights above top of beam.



SECTION A-A



OVER PIERS

CROSS SECTION

TYPICAL

SUPERSTRUCTURE
FAI RT. 57 SEC. 77-1HB-3
PULASKI COUNTY
STA. 227+71.9

DESIGNED	Robert F. Mauer
CHECKED	Robert F. Mauer
DRAWN	A. Barrera
CHECKED	1/1/89

EXAMINED	OCT 14 1960
PASSED	H. E. Baumann
APPROVED	R. B. Baumann



USER NAME = kjk
ESCA PROJECT NO. 1259.09
PLOT SCALE = 1/2" = 1' - 1/2"
PLOT DATE = 12/11/2018 7:59:34 AM

DESIGNED - KJK
DRAWN - KJK
CHECKED - ELH
DATE - 07/18

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY

SCALE: NONE SHEET NO. 2 OF 6 SHEETS STA. TO STA.

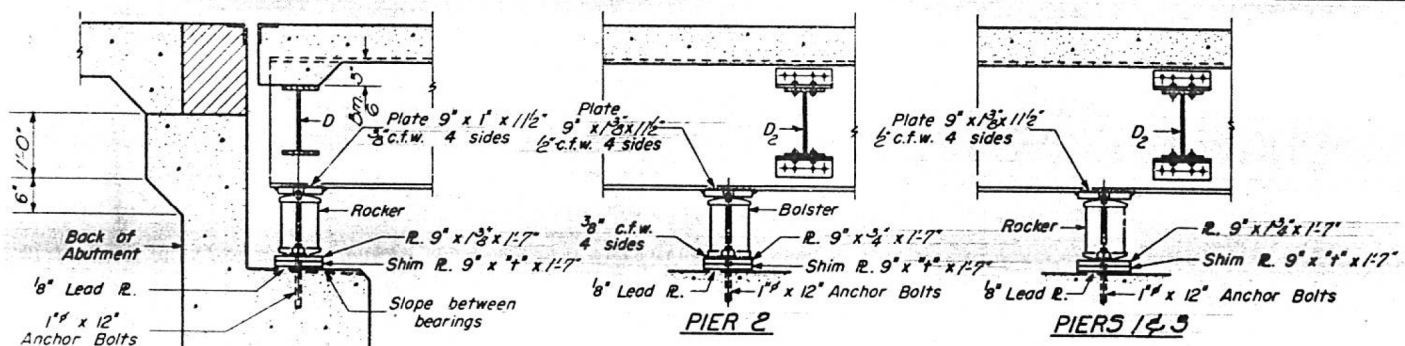
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	74
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				CONTRACT NO. 78454

* 77-1 (3, HB-3, B-3, B-4)
16 (RS, BY)

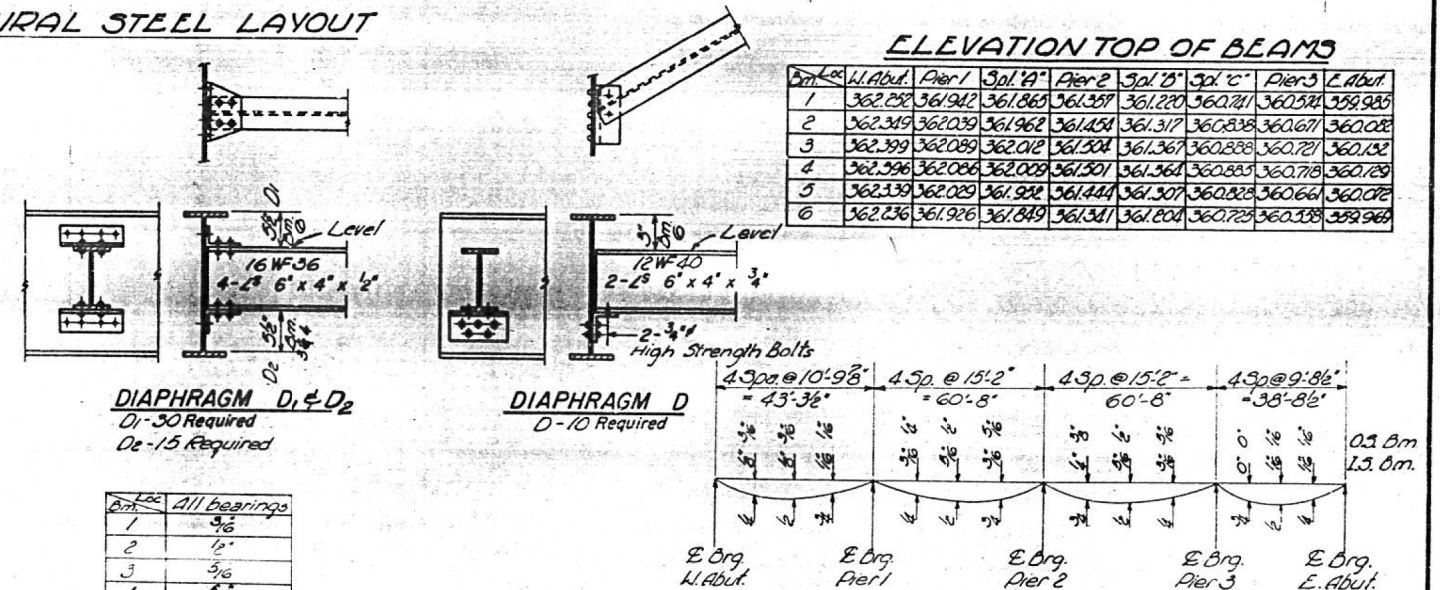
Plan view of bridge piers and abutments. The diagram shows the layout of the bridge structure with dimensions and labels. Key features include:

- Dimensions:**
 - Overall length: 203'-4" C.L.C. of Abut. Sigs.
 - Span spacing: 5 beam spaces @ 51.2' = 257.11'
 - Span length: 53'-11 1/2"
 - Span spacing: 43'-3 1/2"
 - Span length: 60'-8"
 - Span length: 65'-6"
 - Span length: 60'-8"
 - Span length: 36'-2"
 - Span length: 49'-8 1/2"
 - Span length: 38'-8 1/2"
 - Span length: 19'-1 9/16"
 - Span length: 64'
- Labels:**
 - E. Org. W. Abut.
 - E. Org. Pier 1
 - Splice 'A'
 - 30 W 108
 - E. Org. Pier 2
 - E. Splice 'B'
 - E. Splice 'C'
 - E. Org. Pier 3
 - E. Org. E. Abut.
 - E. Rdwy
- Angles:**
 - 1'-0 3/8"
 - 4'-1/2"
 - 8'-1/2"
 - 10'-8"
 - 13'-6"
 - 11'-0"

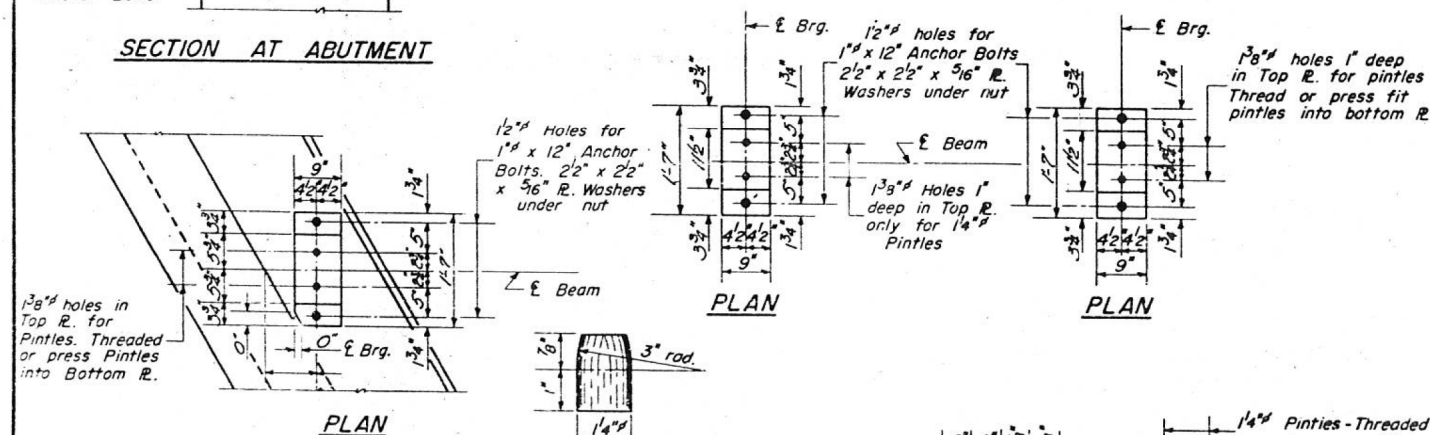
ELEVATION TOP OF BEAMS



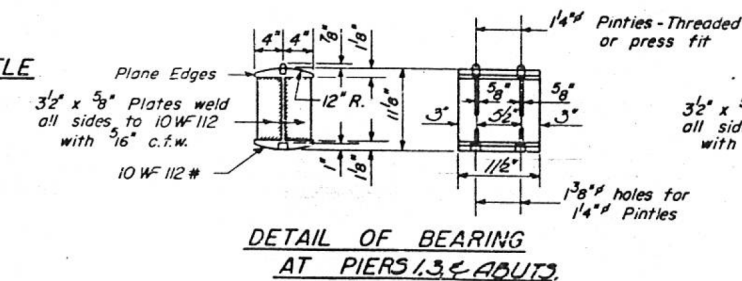
SECTION AT ABUTMENT



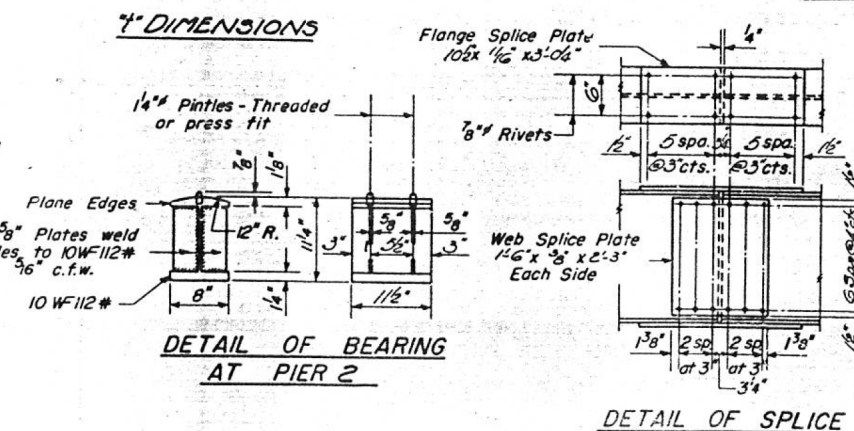
DEAD LOAD DEFLECTION DIAGRAM



DETAIL OF PINTLE



4" DIMENSIONS



DETAIL OF BEARING
AT PIER 2

DETAIL OF SPLICE

STRUCTURAL STEEL
F.A.I. RT. 57 SEC. 77-1HB-3
PULASKI COUNTY
STA. 227+71.9

DESIGNED	<i>Robert P. Moore</i>
CHECKED	<i>Robert Gander</i>
DRAWN	<i>A. Garza</i> <i>W. A. Sausman</i>
CHECKED	<i>PPM</i> <i>89</i>

OCT 14 1960

EXAMINED *H. B. Bannard*
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES

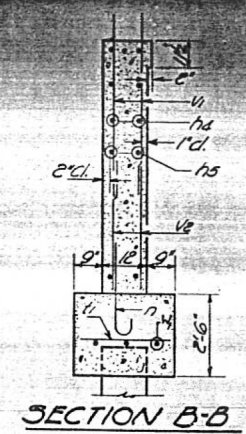
PASSED *E. B. Bannard*
ENGINEER OF DESIGN

APPROVED *R. B. Bannard*

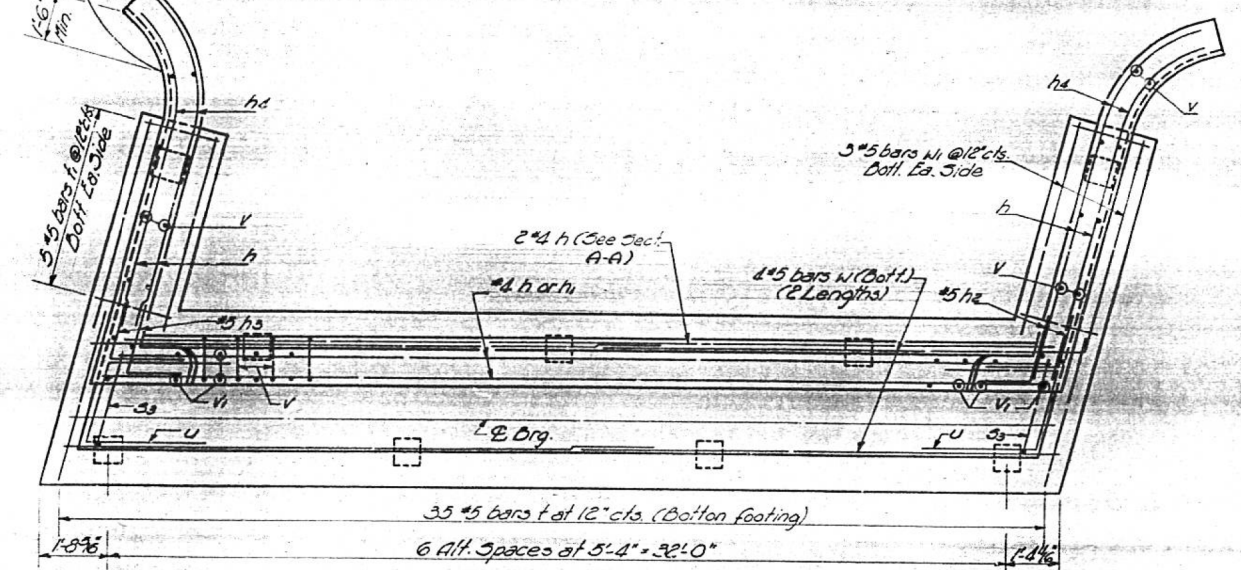
I-2-R Re-drawn 9-23-59

SCALE: NONE	SHEET NO. 3 OF 6 SHEETS	STA. _____ TO STA. _____
-------------	-------------------------	--------------------------

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	75
		CONTRACT NO. 78454		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	

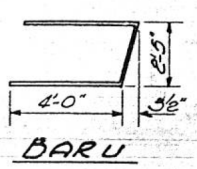


SIDE ELEVATION

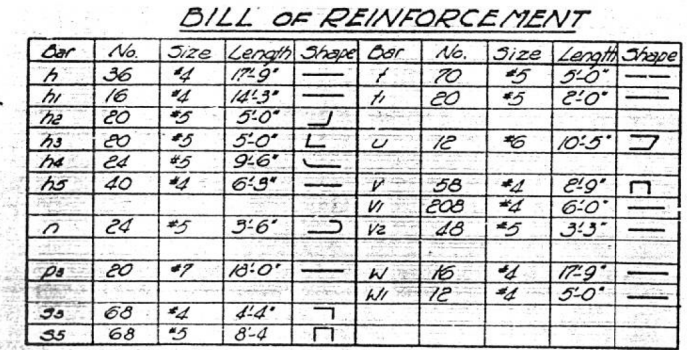


PLAN OF ABUTMENT
Reinforcement & Pile Spacing

Diagram of Bar 33 showing dimensions 8'-6" and 1'-10".



BARV



BILL OF MATERIAL

Car	No.	Size	Length	Shape	Car	No.	Size	Length	Shape
h	36	*4	17'-9"	—	i	70	*5	5'-0"	—
h1	16	*4	14'-3"	—	i1	20	*5	2'-0"	—
h2	20	*5	5'-0"	J					
h3	20	*5	5'-0"	L	u	12	*6	10'-5"	⌋
h4	24	*5	9'-6"	—					
h5	40	*4	6'-9"	—	v	58	*2	2'-9"	⌋
					v1	208	*4	6'-0"	—
n	24	*5	9'-6"	⌋	v2	28	*5	3'-3"	—
pa	20	*7	13'-0"	—	w	16	*4	17'-9"	—
					w1	12	*4	5'-0"	—
33	68	*4	4'-4"	⌋					
35	68	*5	8'-4"	⌋					

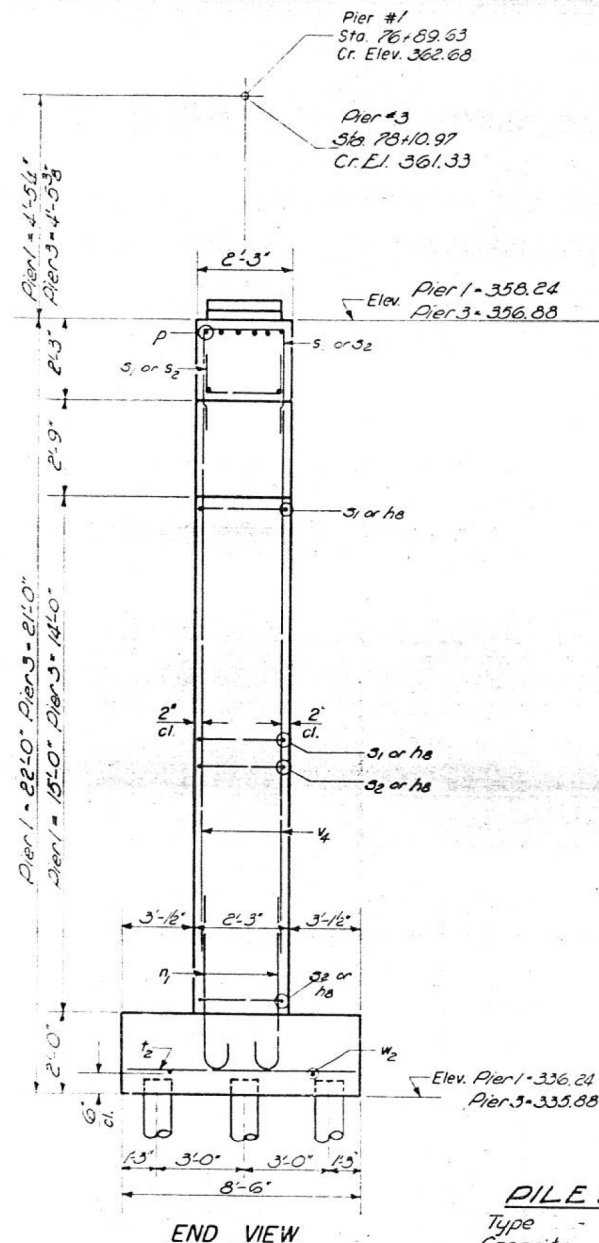
Revised 7/10/66 In ELEVATION and GROUND HEIGHT from 11" to 9", dimensions at both side elevations chgd. accordingly. In Sec. 2-2 added toe wall at form. In 3rd of 1st GEN. CONC. and fut. 72.0 CURBS TO 2nd GEN. CONC.

PILE DATA-PIER 1

Type - Creosoted Timber
Capacity - 20 Ton.
Est. Length - 35 ft.
No. Req'd - 18

Pier #1
Sta. 76+89.63
Cr. Elev. 362.68

Pier #3
Sta. 78+10.97
Cr. El. 361.33



END VIEW

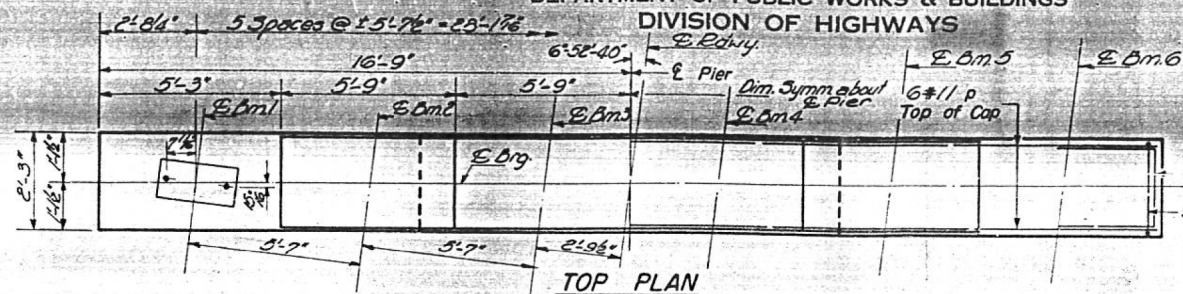
PILE DATA-PIER 3

Type - Creosoted Timber
Capacity - 20 Ton.
Est. Length - 30 ft.
No. Required - 18

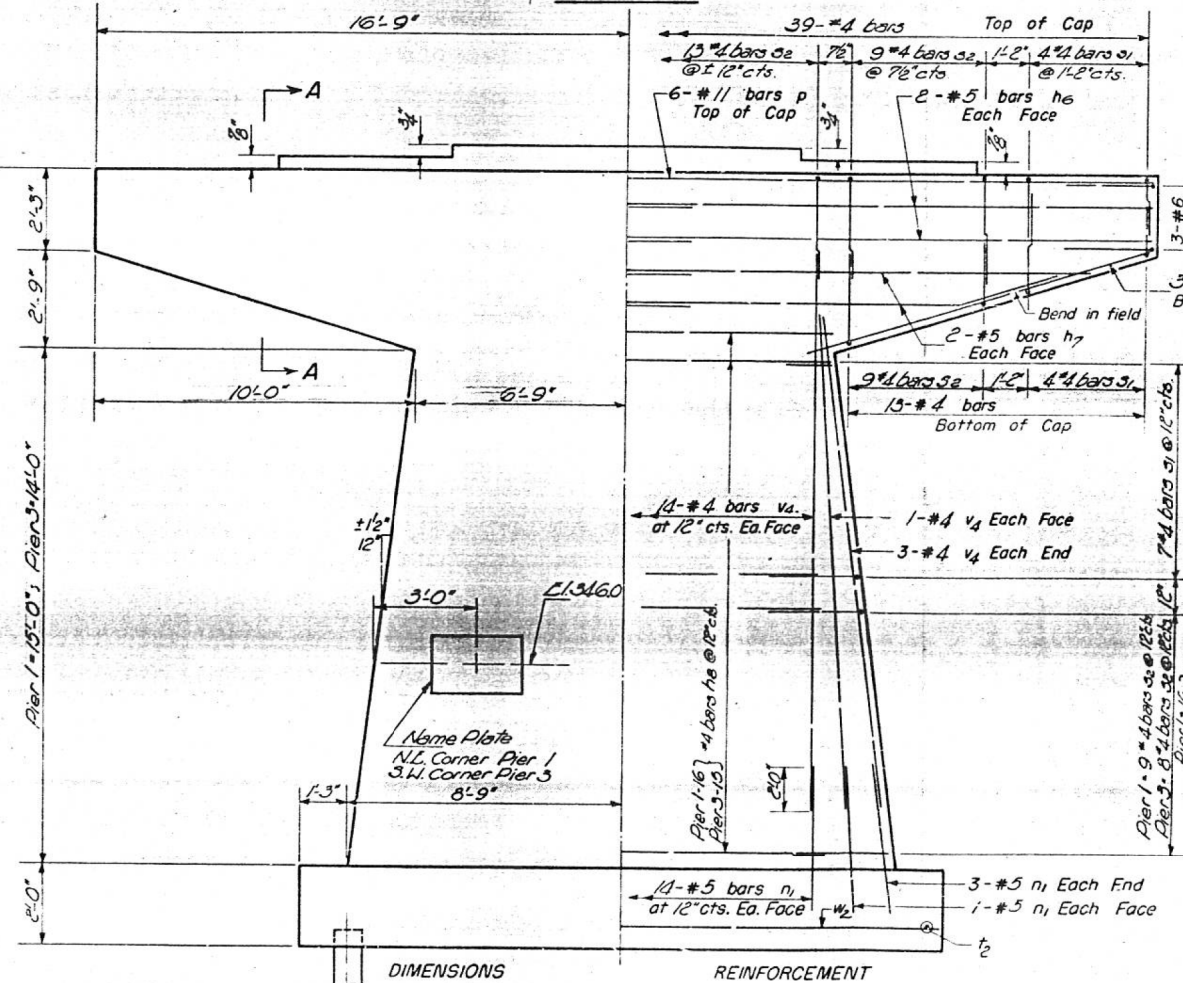
DESIGNED - Robert P. M...
CHECKED - Robert P. M...
DRAWN - W.A. Sausman
CHECKED - R.P. M...
OCT 14 1960
EXAMINED - W.B. Baumann
PASSED - E. H...
APPROVED - R.B. Baumann

P-2 Re-drawn 7-17-59 Rev. 11-25-59

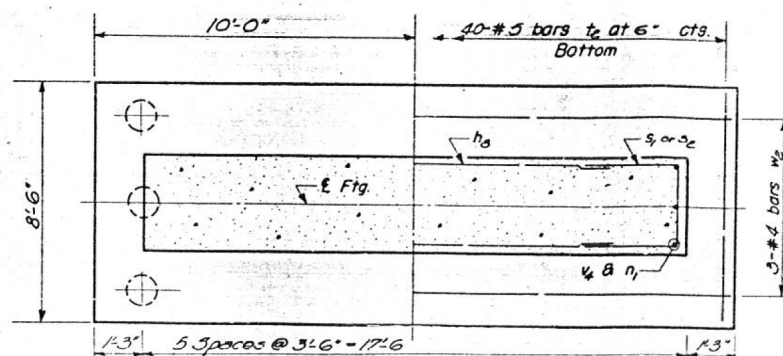
STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS



TOP PLAN

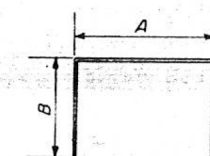


ELEVATION



FOOTING PLAN & PILE SPACING

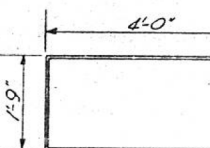
Note: All edges shall have standard 3/4" chamfers except footings.



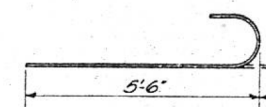
A & B DIMENSIONS

Bar	A	B
s ₁	1'-11"	1'-11"
s ₂	1'-11"	2'-10"

s BARS



u₁ BAR



n₁ BAR

SECTION A-A

PIERS 1 & 3

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₆	16	#5	17'-3"	—
h ₇	16	#5	14'-6"	—
h ₈	62	#4	13'-3"	—
n ₁	76	#5	6'-1"	—
p	12	#11	33'-0"	—
p ₂	12	#5	11'-3"	—
s ₁	60	#4	5'-9"	—
s ₂	132	#4	7'-7"	—
t ₂	80	#5	8'-0"	—
u ₁	12	#6	9'-9"	—
v ₄	76	#4	16'-0"	—
w ₂	6	#4	19'-6"	—
Class X Concrete				Cu. Yds. 85.8
Reinforcement Bars				Lbs. 6,440
Creosoted Piles				Lin. Ft. 1,170
Test Piles (Timber)				Ea. 1

PIERS 1 & 3
F.A.I. RT. 57 SEC. 77-1HB-3
PULASKI COUNTY
STA. 227+71.9



USER NAME - kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259.09	DRAWN - KJK	REVISED -
PLOT SCALE - 1/2" = 1' - 0"	CHECKED - ELH	REVISED -
PLOT DATE - 12/11/2018	DATE - 07/18	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS FOR INFORMATION ONLY

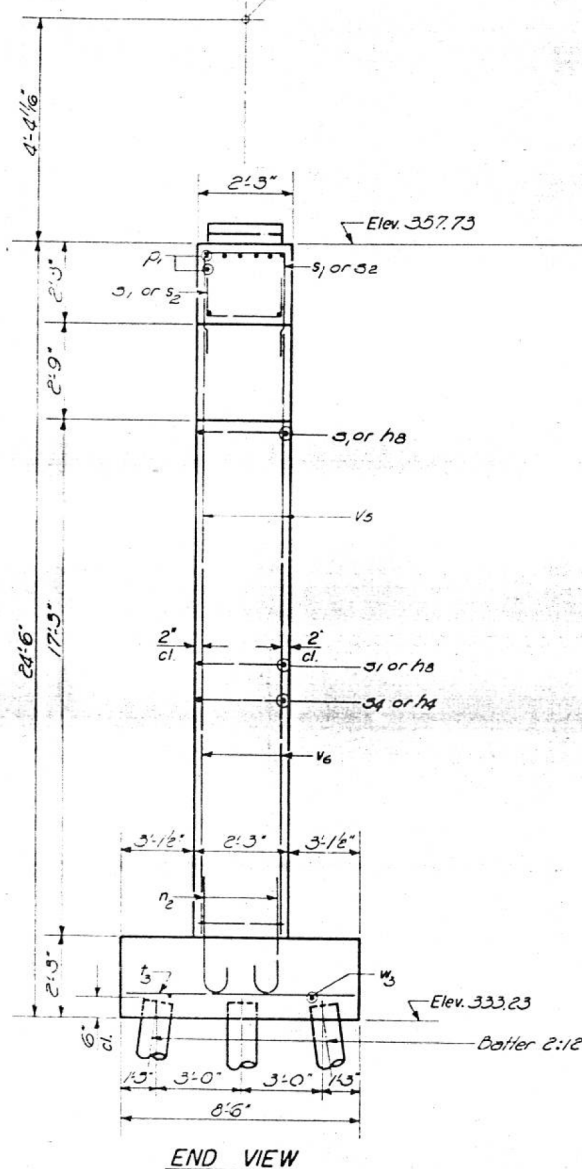
SCALE: NONE SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1)3HB-2	PULASKI	92	77
CONTRACT NO. 78454				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

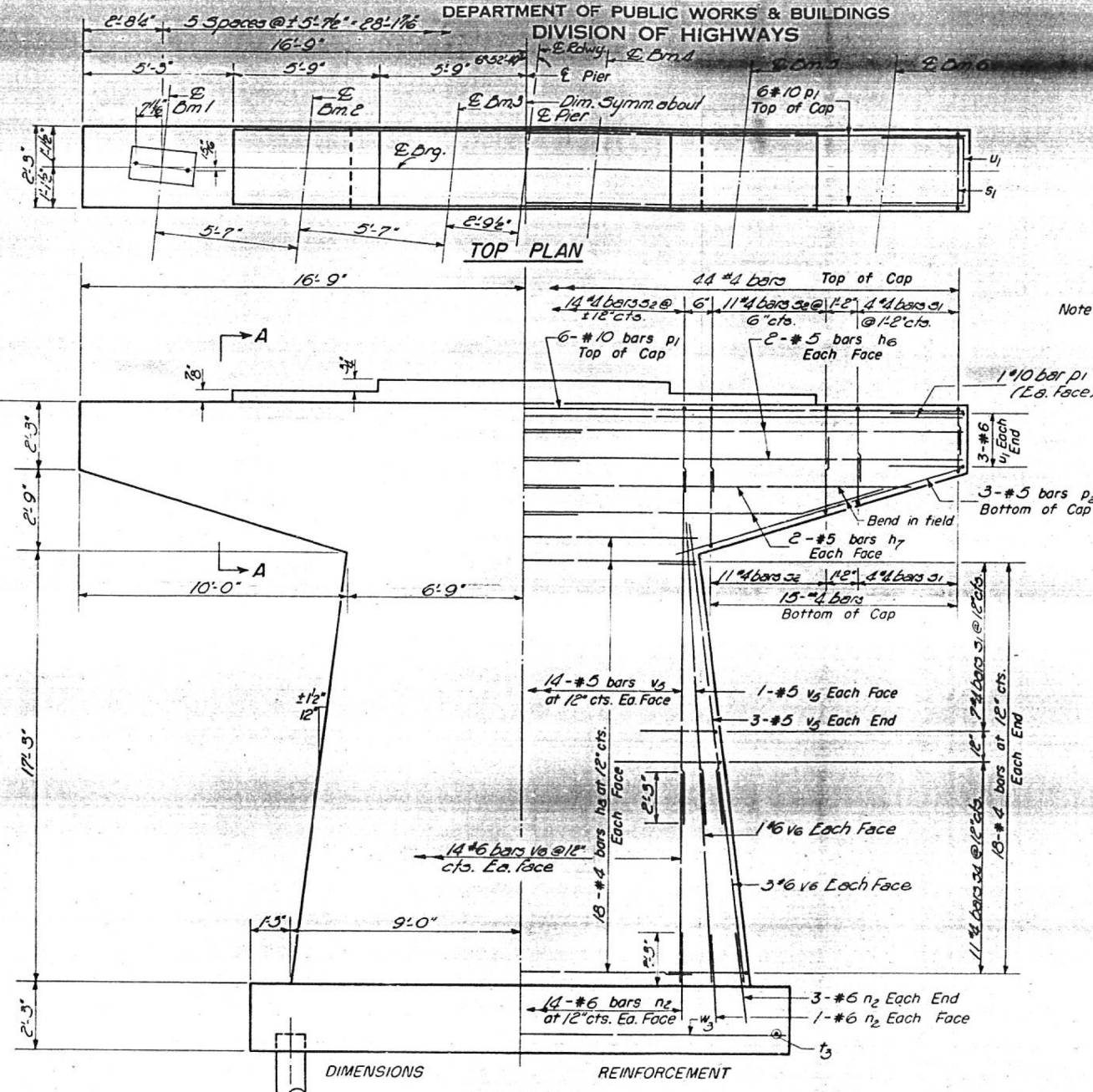
Type - Creosoted Timber
Capacity - 20 Ton.
Est. Length - 30 Ft.
No. Req'd. - 21

Type - Creosoted Timber
Capacity - 20 Ton.
Est. Length - 30 Ft.
No. Req'd. - 21

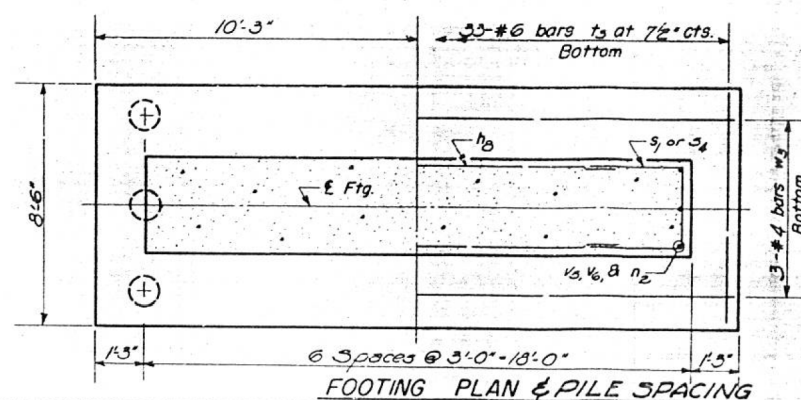
Pier #2
Sta. 77450.30
Cr. Elev. 362.12



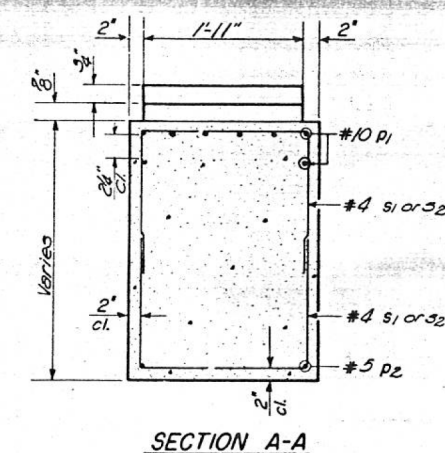
END VIEW



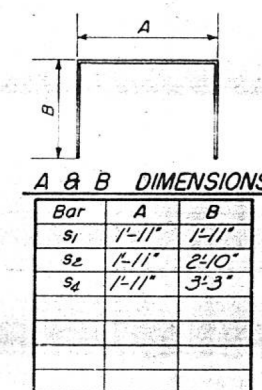
ELEVATION



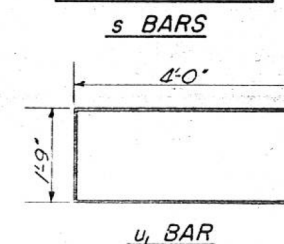
FOOTING PLAN & PILE SPACING



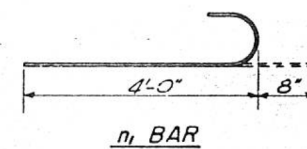
SECTION A-A



A & B DIMENSIONS



S BARS



n_i BAR

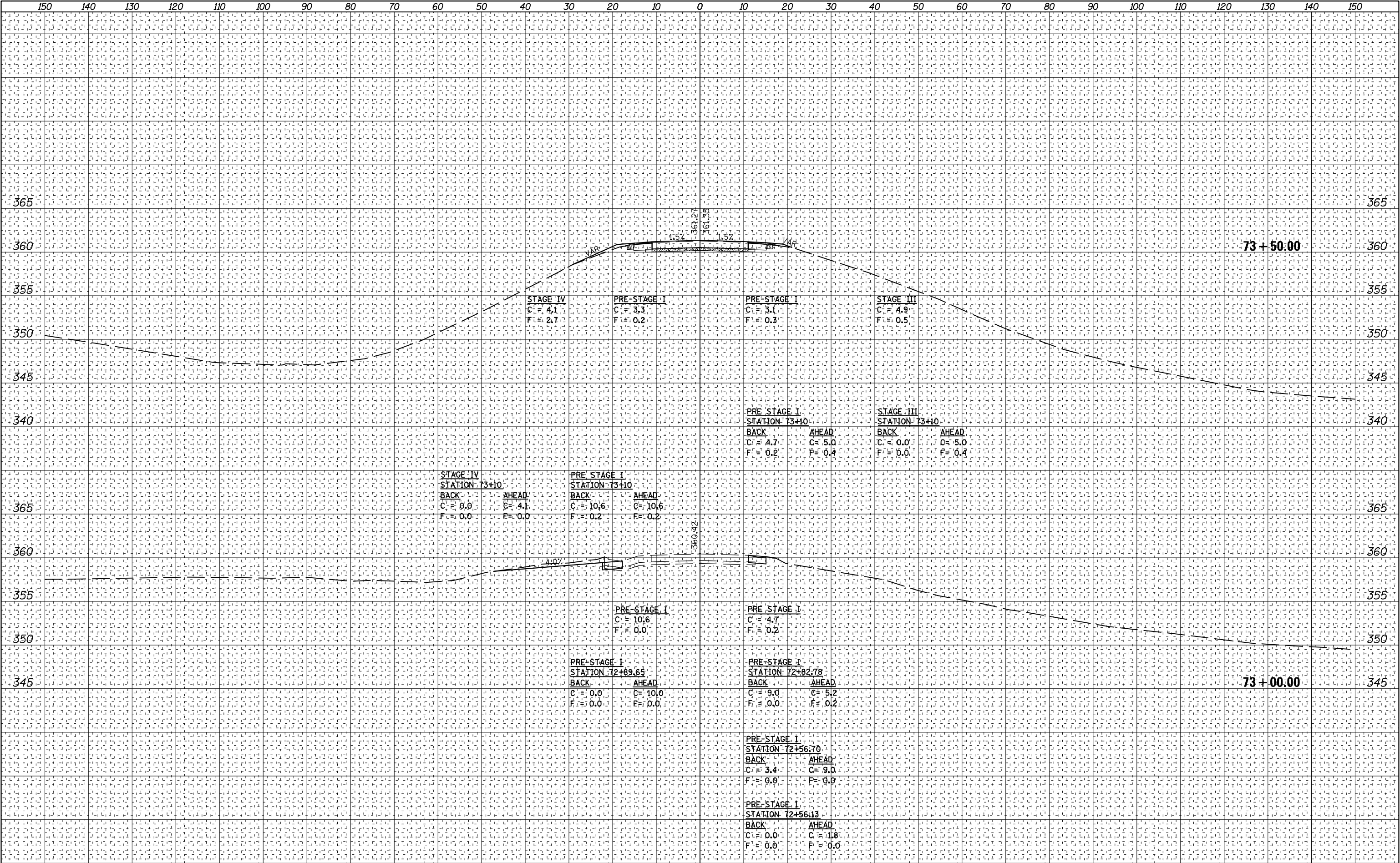
PIER 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₆	8	#5	17'-3"	—
h ₇	8	#5	14'-6"	—
h ₈	36	#4	13'-3"	—
n ₂	38	#6	4'-8"	C
p ₁	8	#10	33'-0"	—
p ₂	6	#5	11'-3"	—
s ₁	30	#4	5'-0"	□
s ₂	58	#4	7'-7"	□
s ₄	22	#4	8'-5"	□
t ₃	33	#6	8'-0"	—
u ₁	6	#6	9'-9"	□
v ₅	38	#5	15'-0"	—
v ₆	38	#6	8'-0"	—
w ₃	3	#4	20'-0"	—
Class X Concrete			Cu.Yds.	48.7
Reinforcement Bars			Lbs.	4160
Creosoted Piles			Lin.ft.	630
Teal Piles(Timber)			Ea.	1

PIER 2
F.A.I. RT. 57 SEC. 77-1HB-3
PULASKI COUNTY
STA. 227+71.9

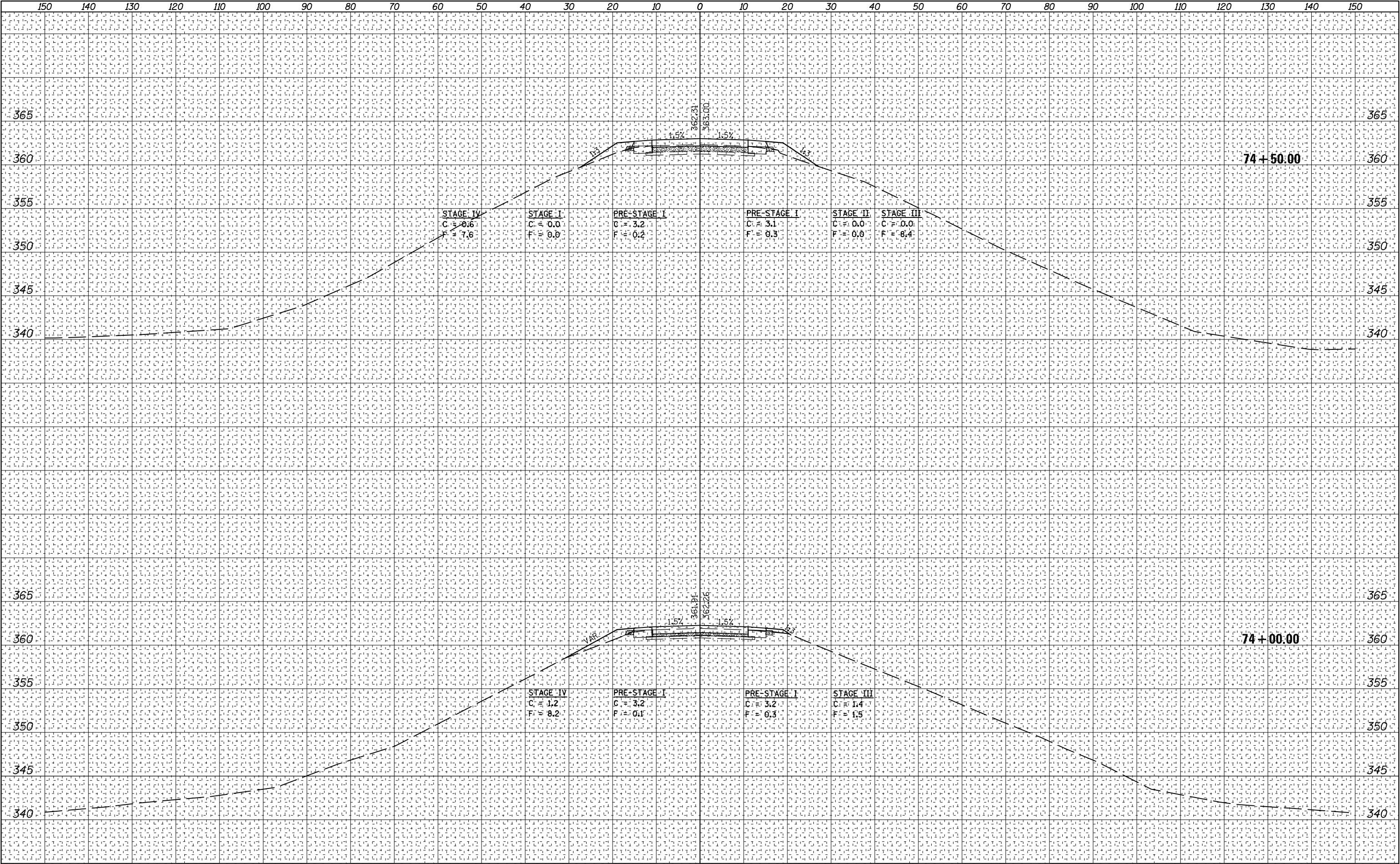
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	BY
	SURVEYED PLOTTED
	NOTE BOOK TEMPLATE
NO.	AREAS CHECKED

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



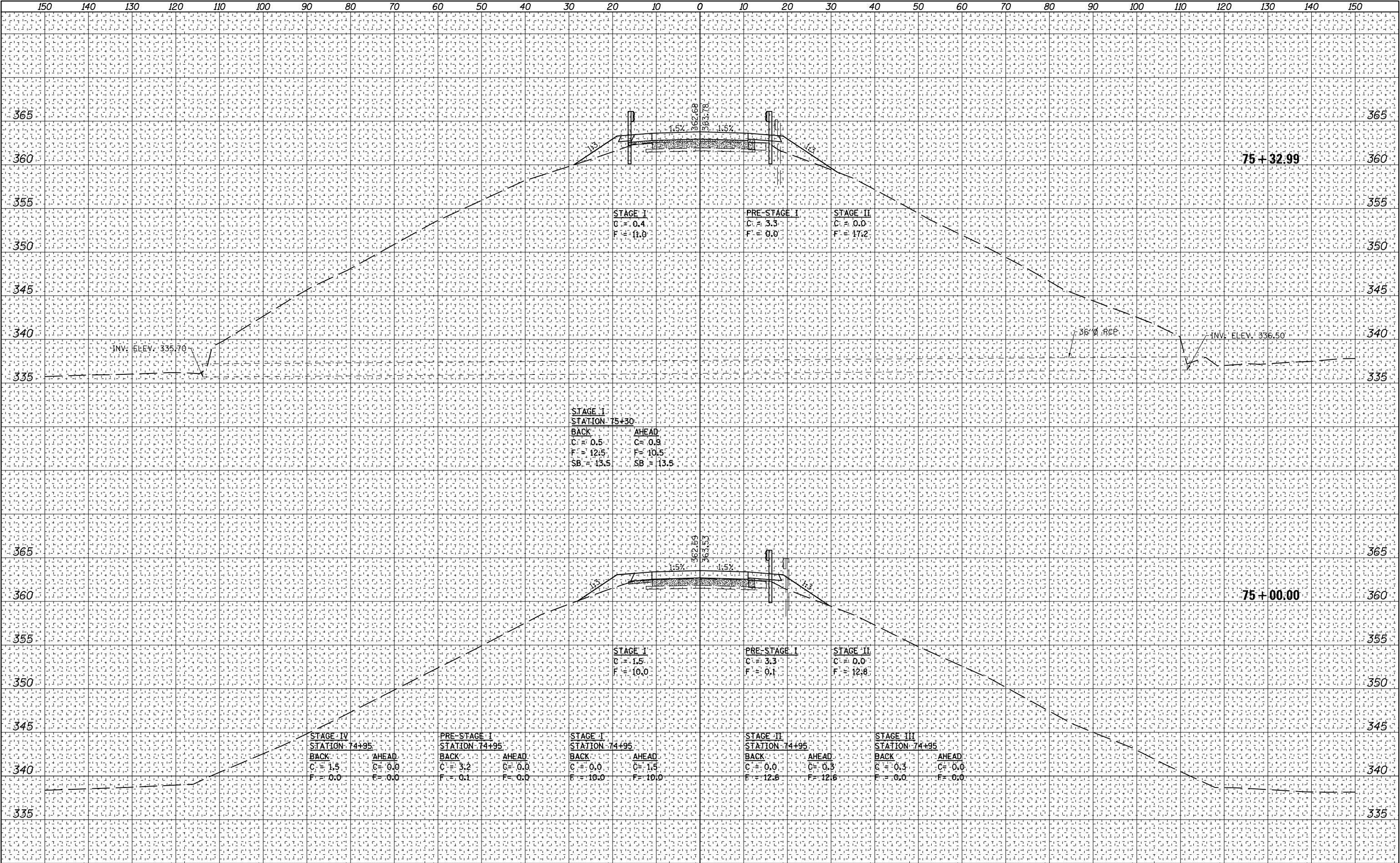
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	BY
	SURVEYED
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NOTE BOOK	TEMPLATE
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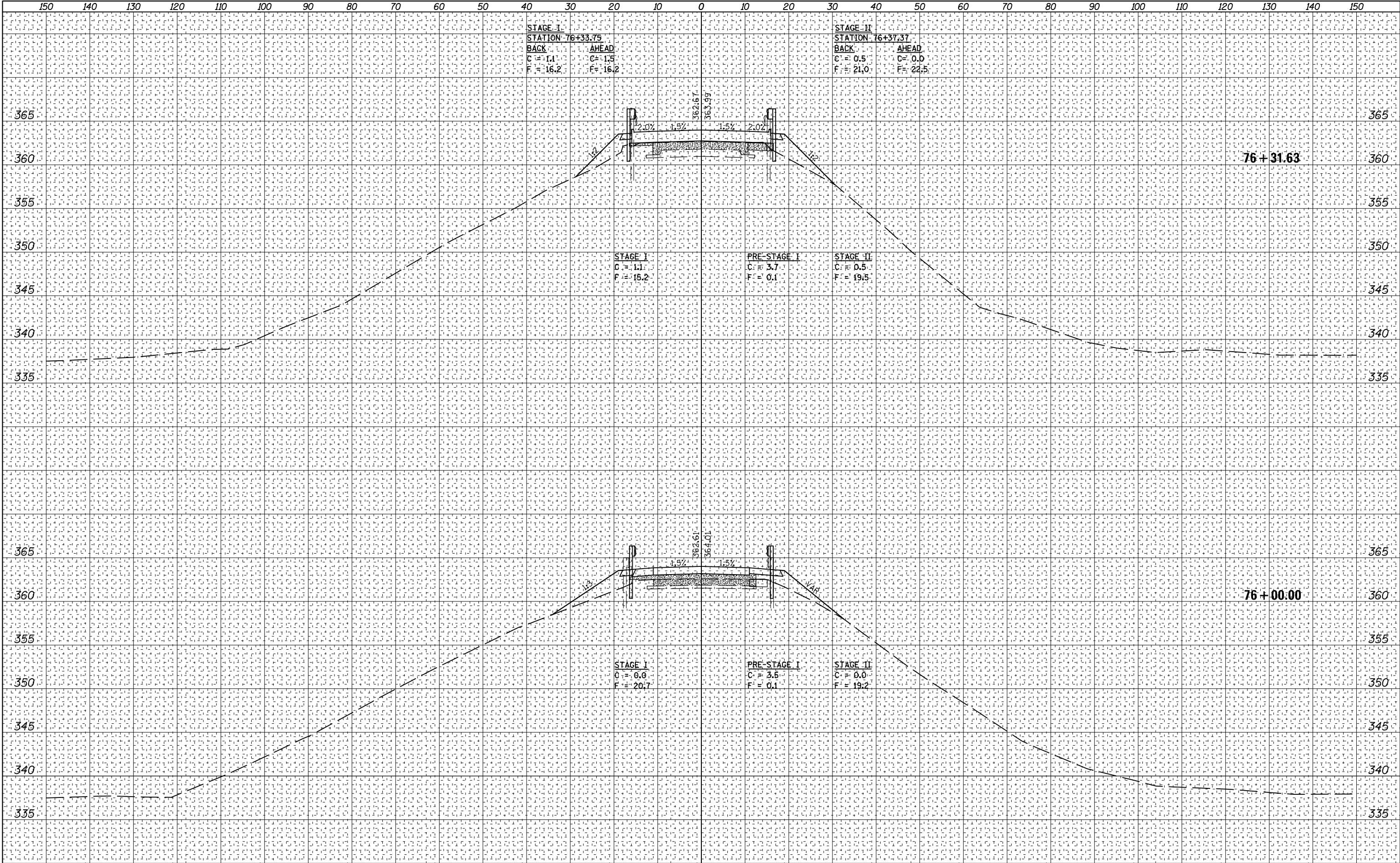
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NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



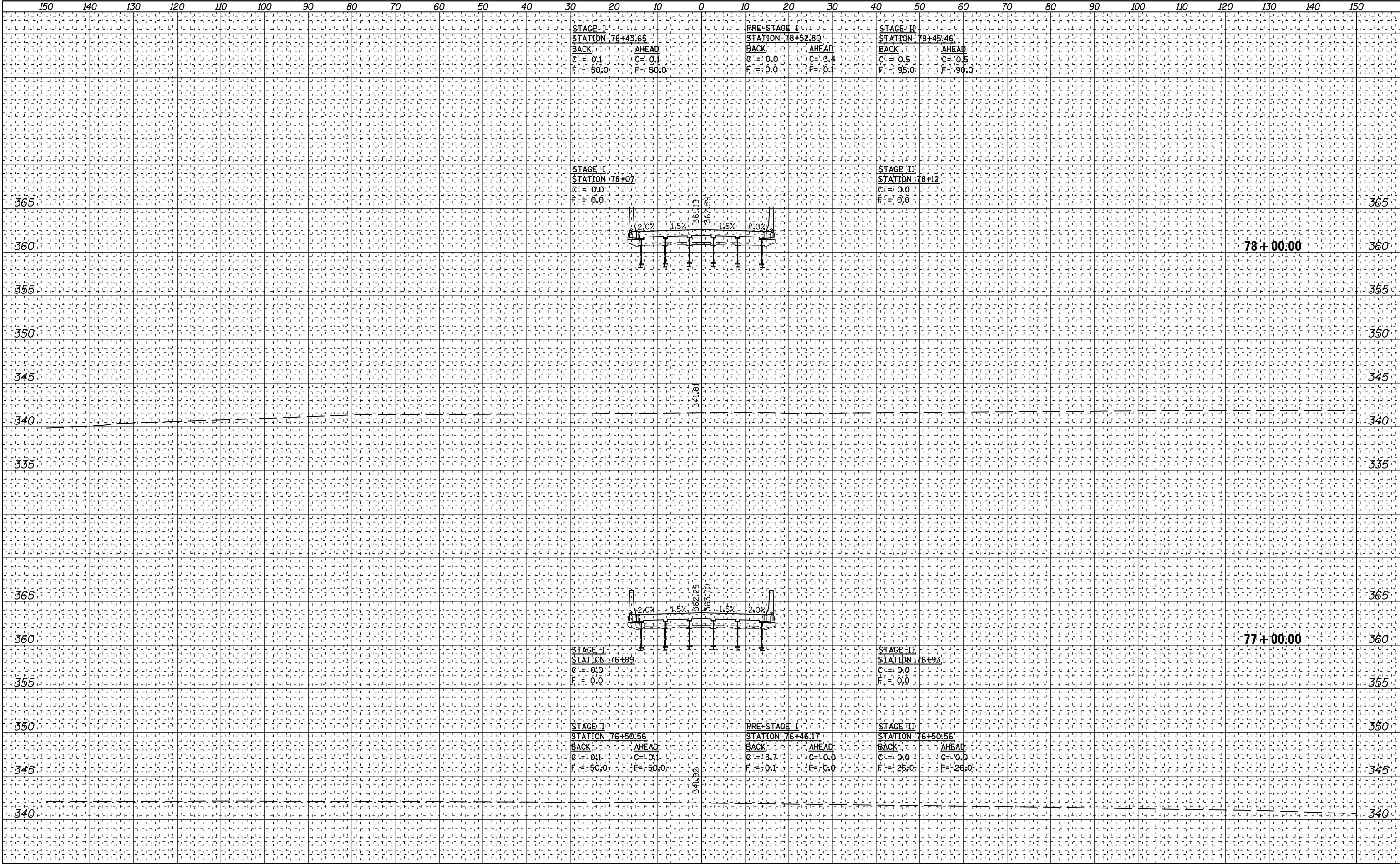
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	PLOTTED
NOTE BOOK	TEMPLATE
AREAS CHECKED	
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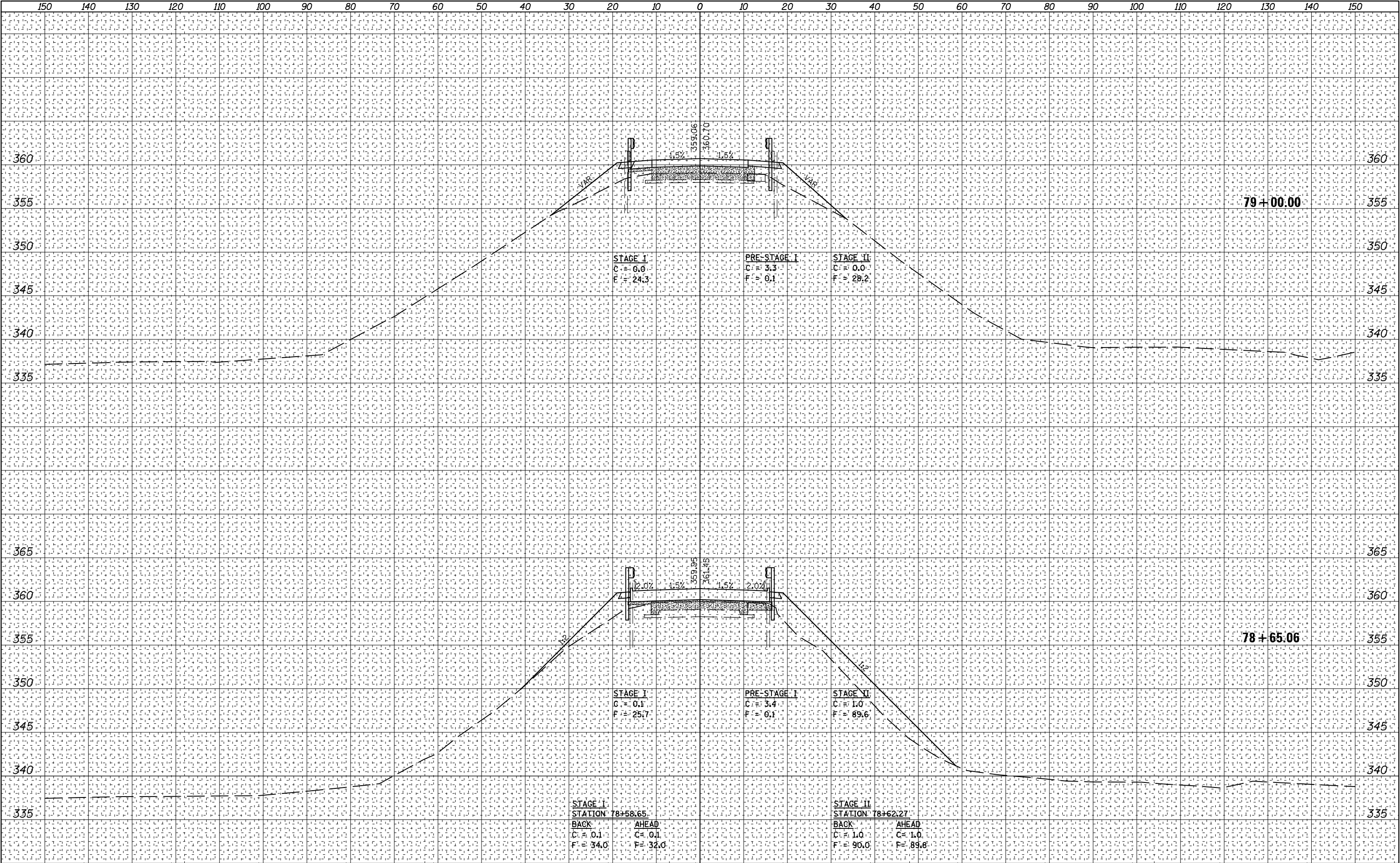
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	BY
	SURVEYED NOTE BOOK
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NO.	AREAS CHECKED

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



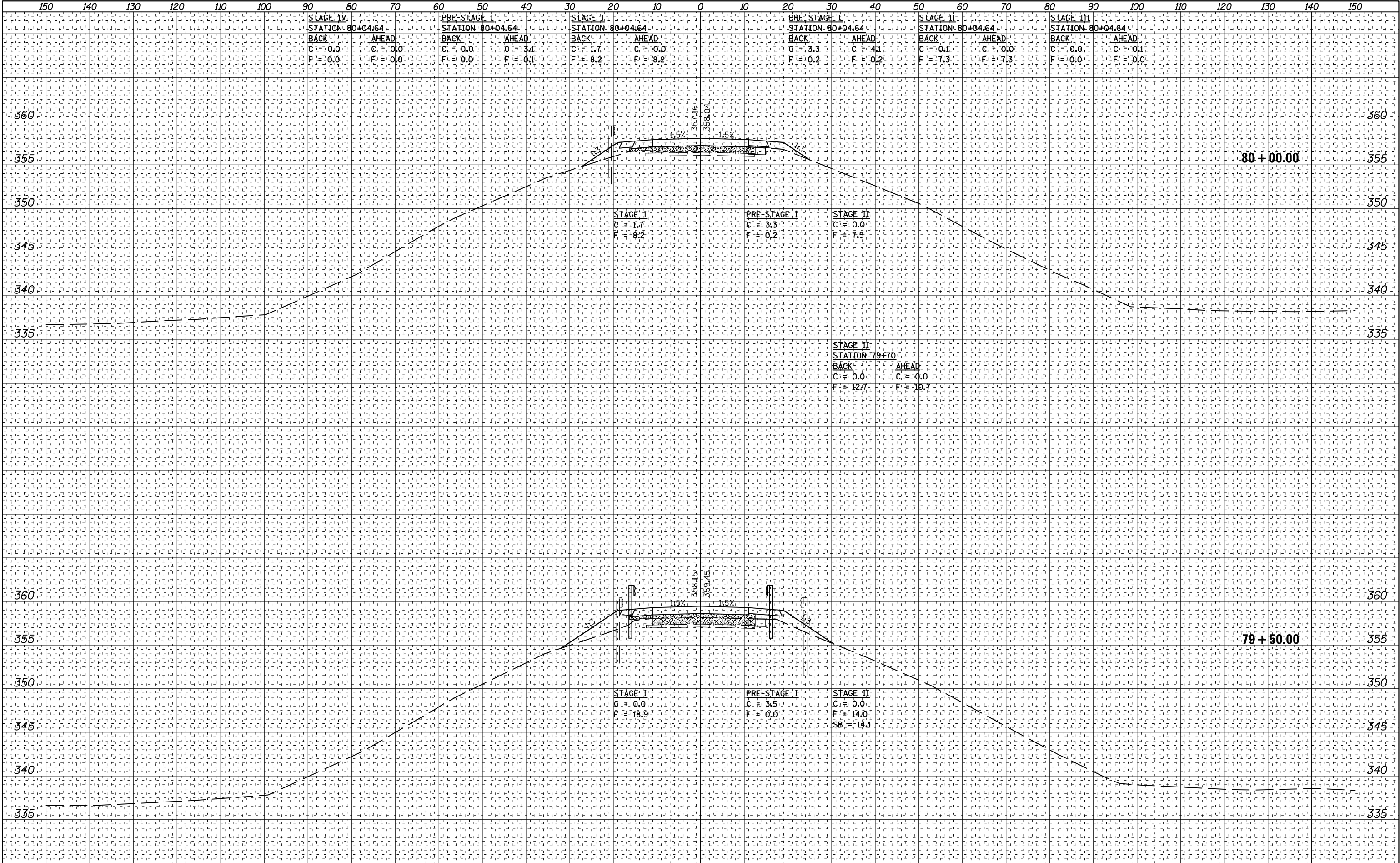
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	SURVEYED
	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

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



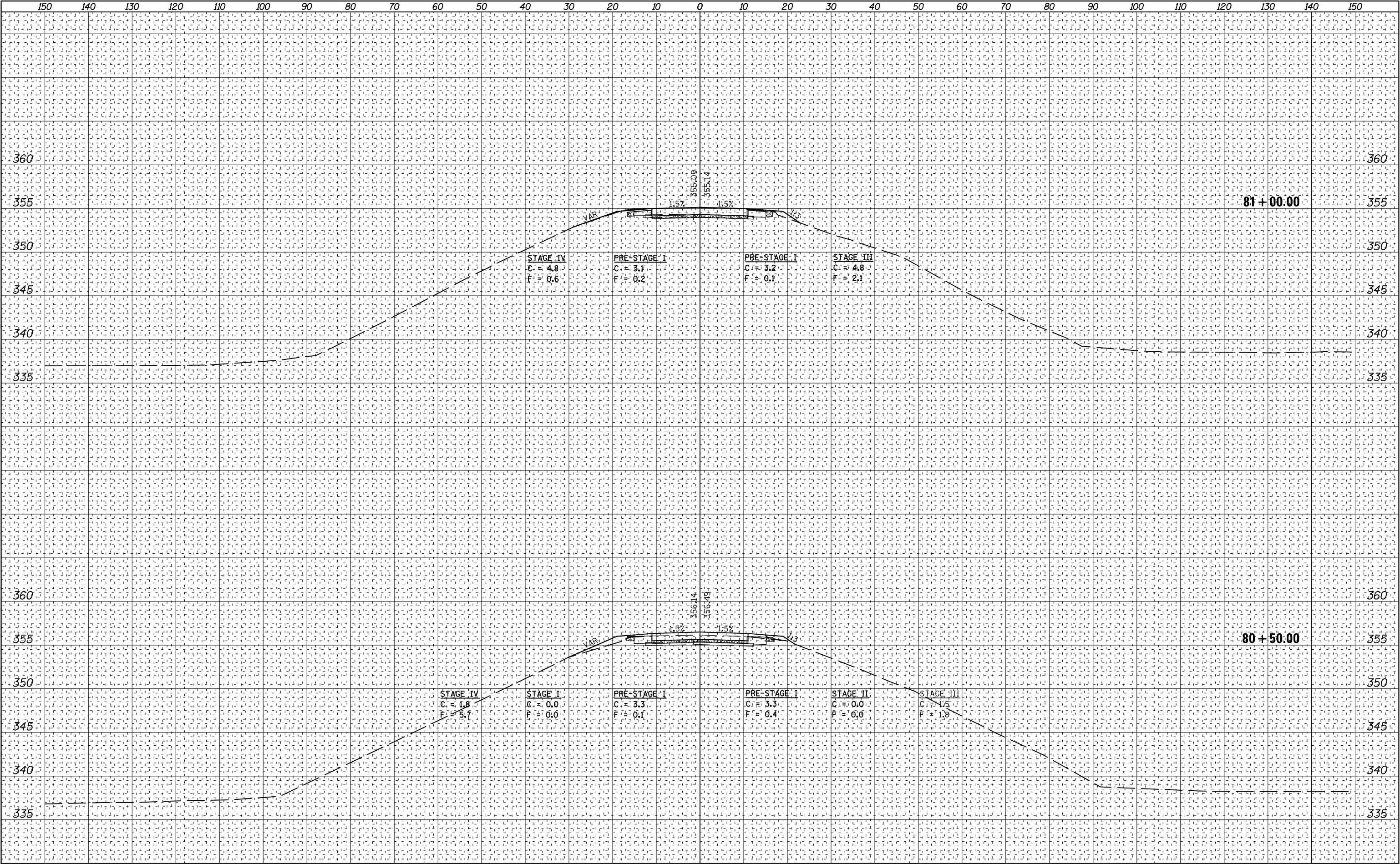
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		NO.	NO.	NO.	NO.



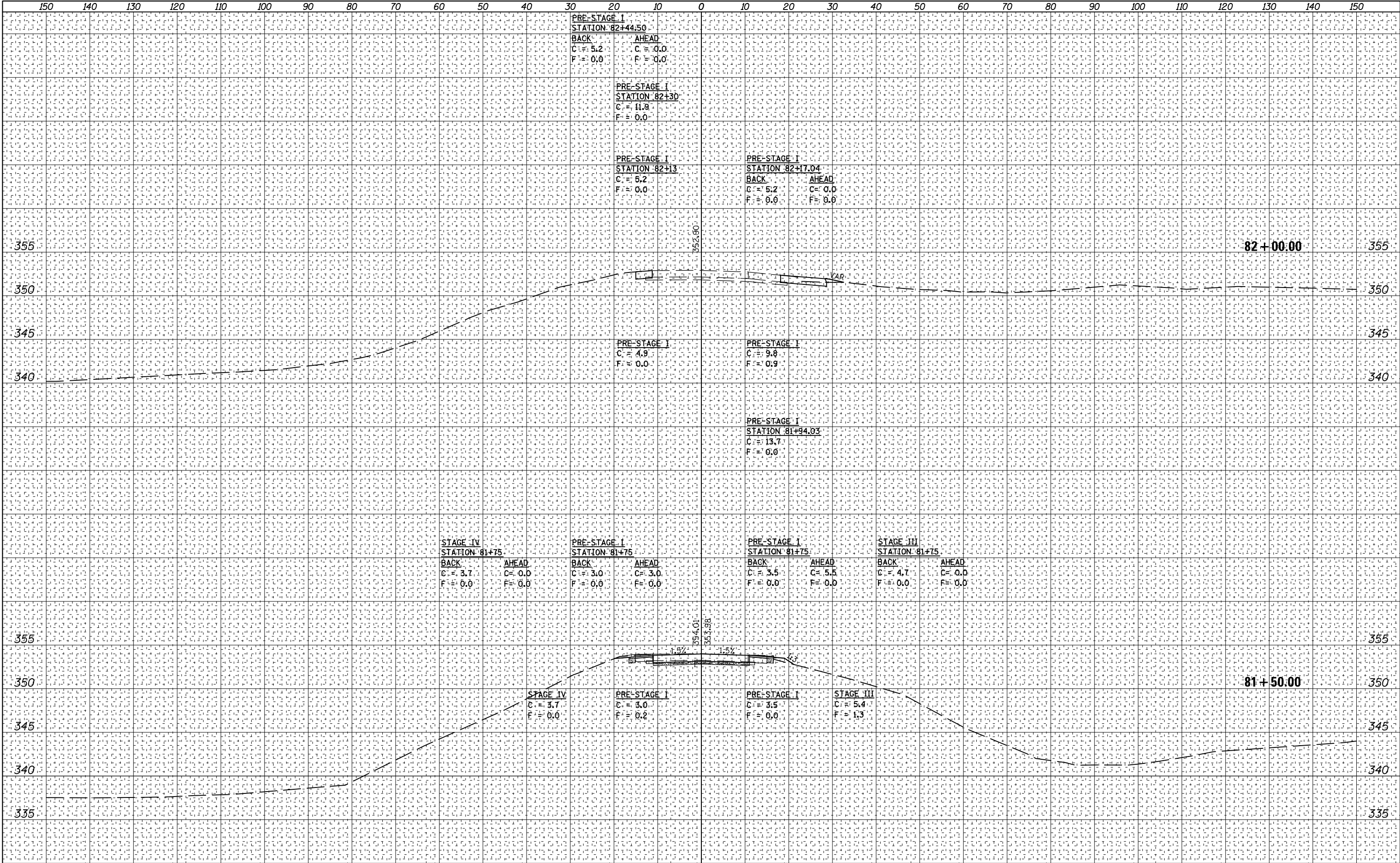
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SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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

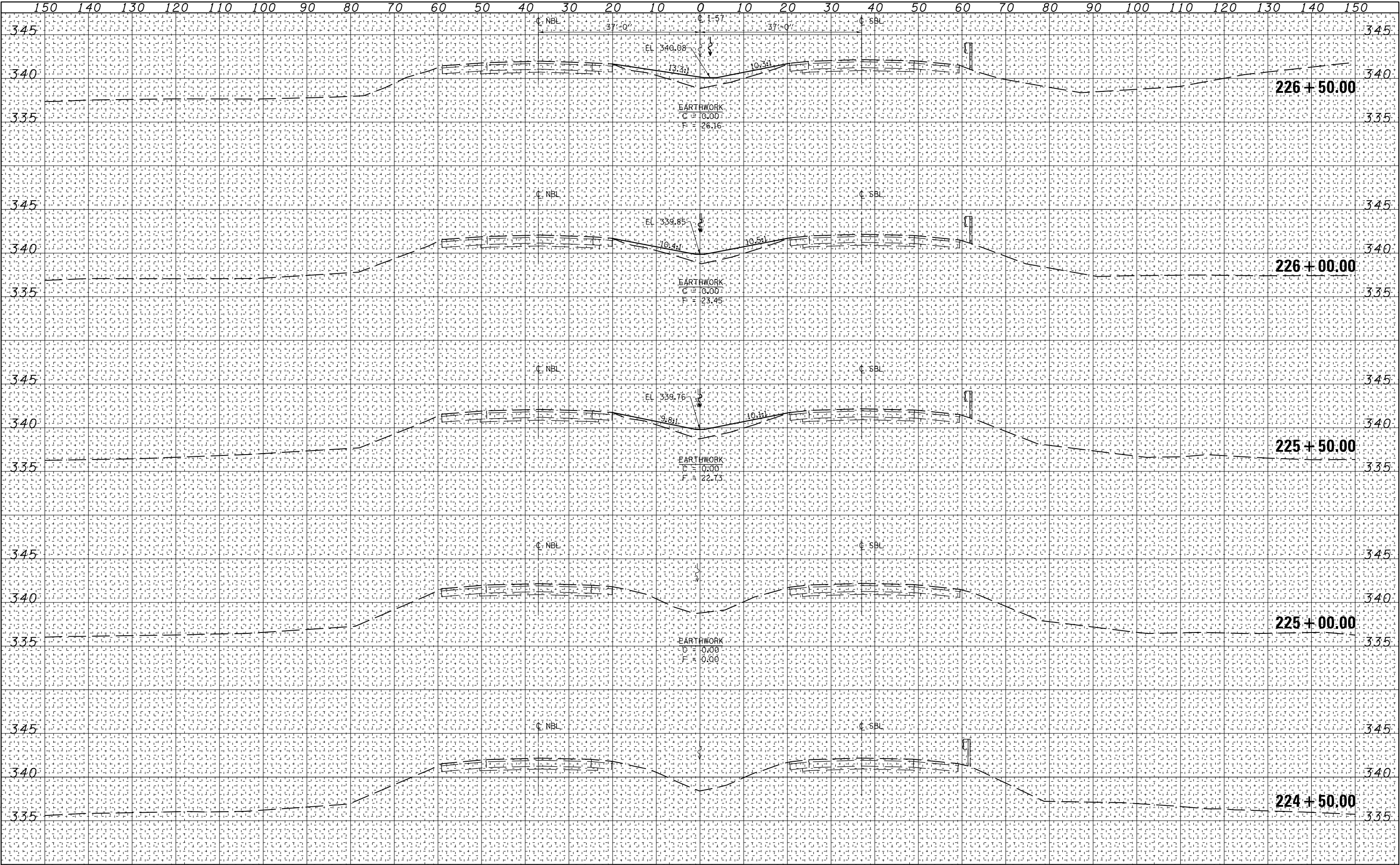
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NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



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

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

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USER NAME = kjk	DESIGNED - KJK	REVISED -
SCALES: (HORIZ) 1"=50' (VERT) 1"=5'	DRAWN - KJK	REVISED -
PLOT SCALE = 20,000' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018	DATE - 11/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 57 (I-57) CROSS SECTIONS

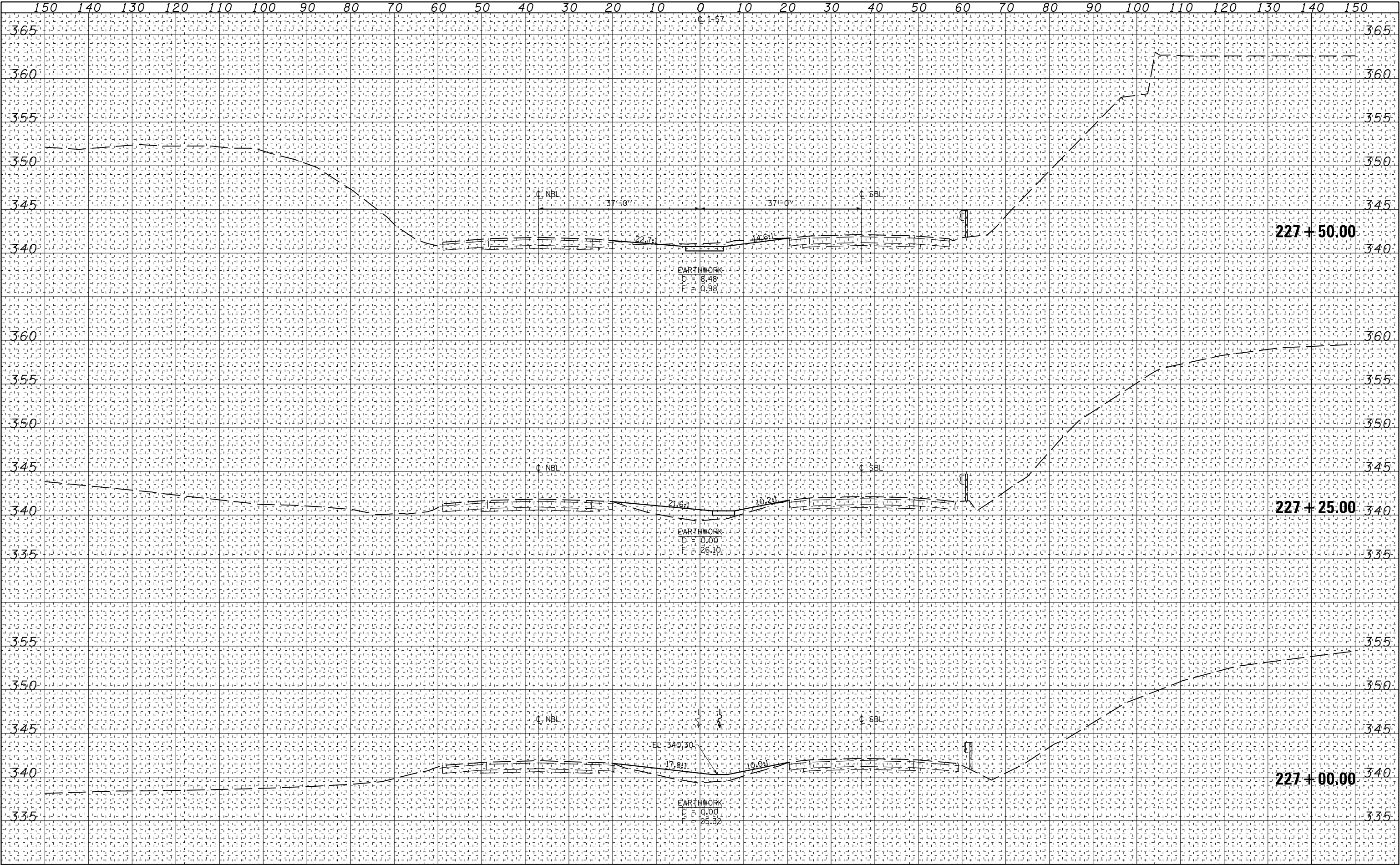
SCALE: AS SHOWN SHEET 1 OF 5 SHEETS STA. 224+50.00 TO STA. 226+50.00

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	88
				CONTRACT NO. 78454
ILLINOIS FED. AID PROJECT AID				

FINAL SURVEY	SURVEYED PLOTTED	DATE
NOTE BOOK	TEMPLATE	
AREAS	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED PLOTTED	DATE
NOTE BOOK	TEMPLATE	
AREAS	AREAS CHECKED	

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USER NAME = kjk	DESIGNED - KJK	REVISED -
SCALES: (HORIZ) 1"=50' (VERT) 1"=5'	DRAWN - KJK	REVISED -
PLOT SCALE = 20,000' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 12/11/2018	DATE - 11/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 57 (I-57) CROSS SECTIONS

SCALE: AS SHOWN SHEET 2 OF 5 SHEETS STA. 227+00.00 TO STA. 227+50.00

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	89
CONTRACT NO. 78454				

ILLINOIS FED. AID PROJECT AID

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

REVISED	-
REVISED	-
REVISED	-
REVISED	-

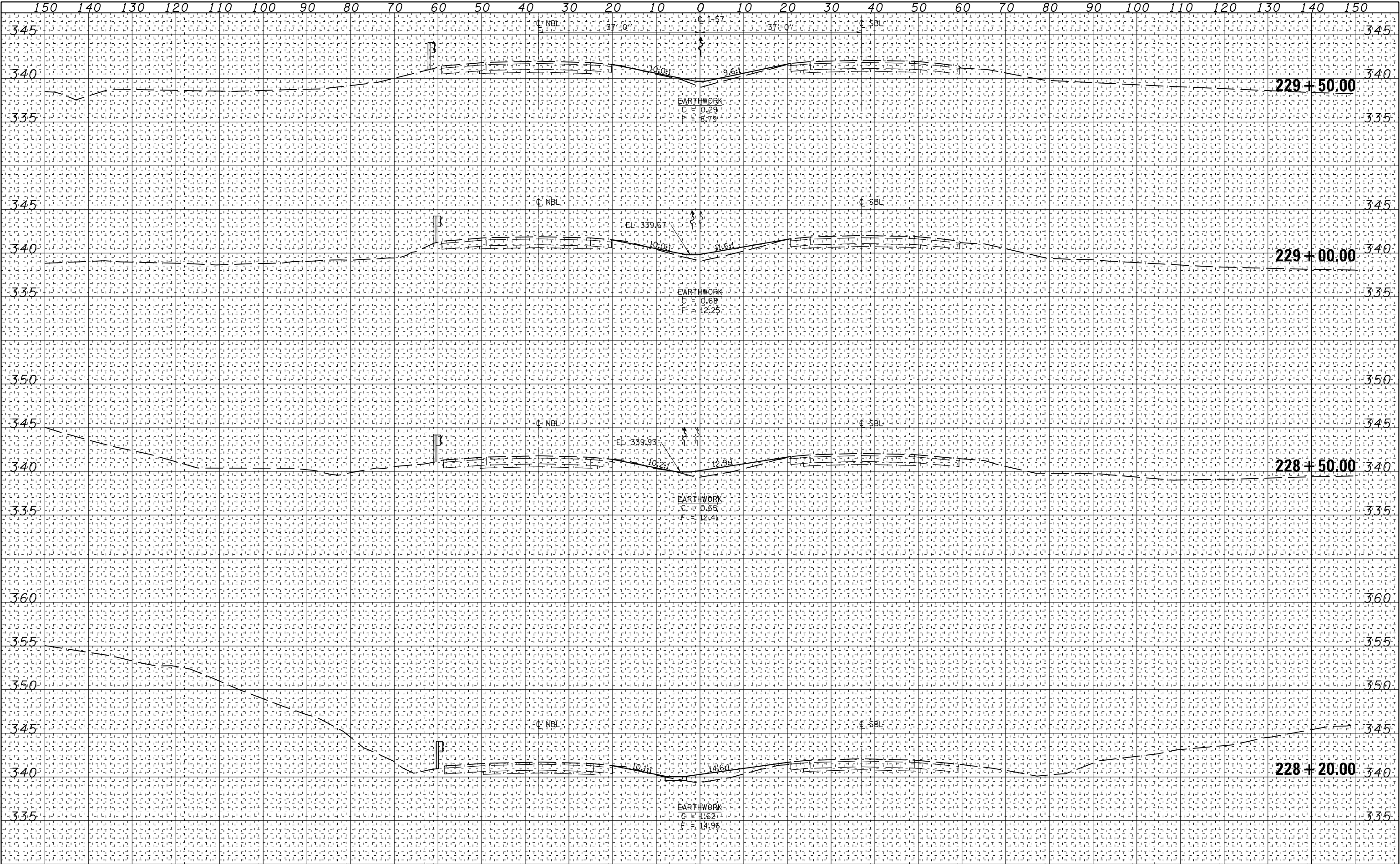
FAI 57 (I-57) CROSS SECTIONS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	90
		CONTRACT NO. 78454		
		ILLINOIS	FED. AID PROJECT	AID

FINAL SURVEY	SURVEYED PLOTTED	DATE
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	

ORIGINAL SURVEY	SURVEYED PLOTTED	DATE
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	

MODEL: Default
FILE NAME: Y:\DOT\1289400_78454\CA\DWG\ROAD\SSW\1289400-78454-SSW.dwg



USER NAME = kjk
SCALES: (HORIZ) 1"=50' (VERT) 1"=5'
PLOT SCALE = 20,000' / 1"
PLOT DATE = 12/11/2018

DESIGNED - KJK
DRAWN - KJK
CHECKED - JMS
DATE - 11/18

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

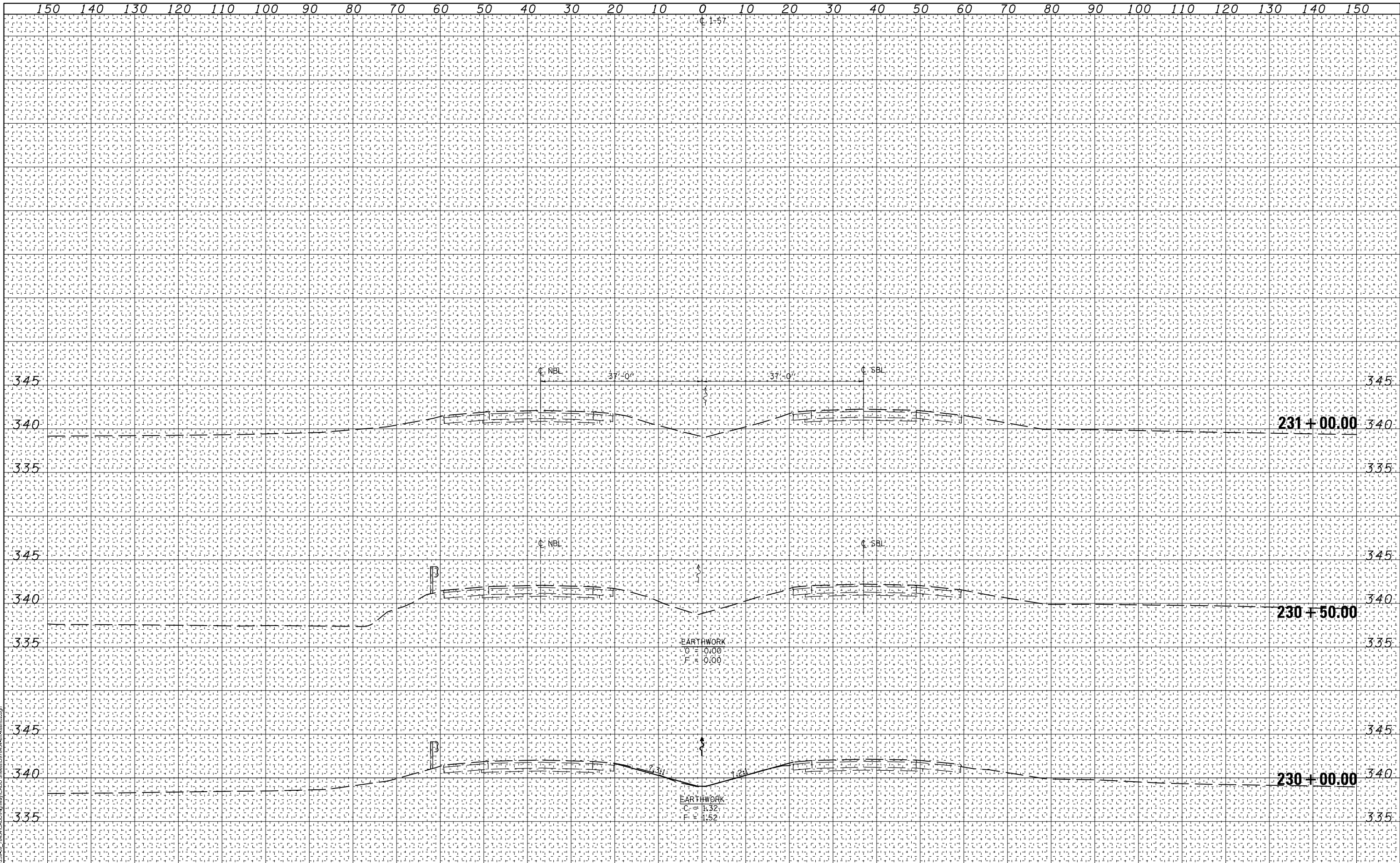
FAI 57 (I-57) CROSS SECTIONS

SCALE: AS SHOWN SHEET 4 OF 5 SHEETS STA. 228+20.00 TO STA. 229+50.00

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(77-1-3)HB-2	PULASKI	92	91
CONTRACT NO. 78454				

ILLINOIS FED. AID PROJECT AID

ORIGINAL		BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			
NO.			



MODEL: Default FILE NAME: Y2D		USER NAME = kjk	DESIGNED - KJK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAI 57 (I-57) CROSS SECTIONS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SCALES: (HORIZ) 1"=50' (VERT) 1"=5'	DRAWN - KJK	REVISED -						57	(77-1-3)HB-2	PULASKI	92	92
		PLOT SCALE = 20,0000 ' / 1 in.	CHECKED - JMS	REVISED -		CONTRACT NO. 78454								
		PLOT DATE = 12/11/2018	DATE = 11/18	REVISED -		SCALE: AS SHOWN	SHEET 5 OF 5 SHEETS	STA. 230+00.00	TO STA. 231+00.00	ILLINOIS	FED. AID PROJECT	AID		