

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	1
		ILLINOIS	CONTRACT NO. /ZK08	

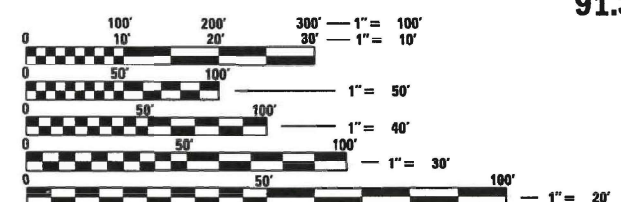
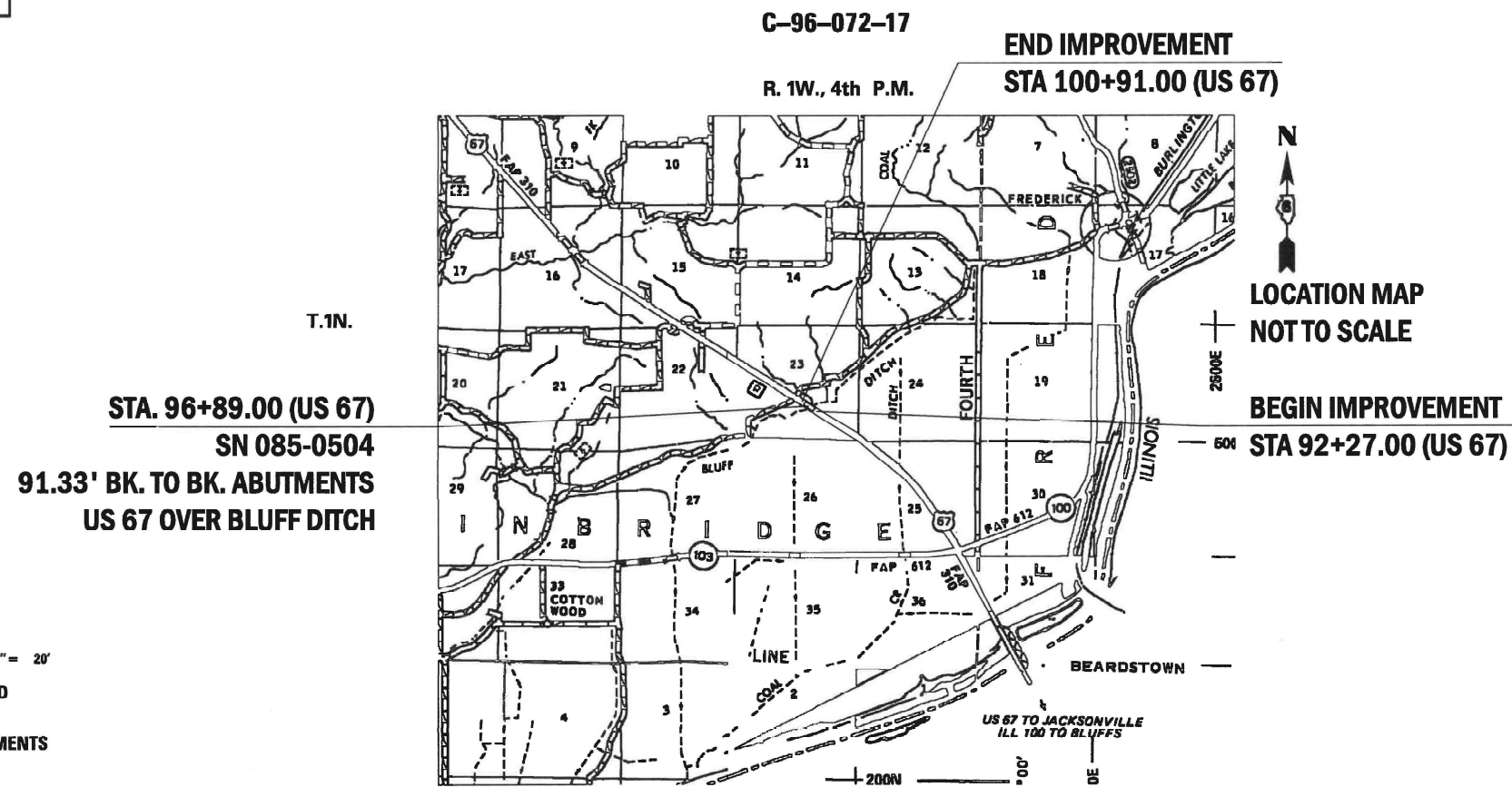
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FOR LIST OF HIGHWAY STANDARDS, SEE SHEET 2

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 310 (US 67)  
SECTION (87)B-2  
PROJECT NHPP-71J9(261)  
BRIDGE REPLACEMENT  
SCHUYLER COUNTY



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

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

GROSS LENGTH = 864.00 FT. = 0.164 MILE  
NET LENGTH = 864.00 FT. = 0.164 MILE



PROJECT ENGINEER: JAY EDWARDS 217-785-0597  
PROJECT MANAGER: FILIBERTO SOTELO 217-524-0946

CONTRACT NO. - 72K08

SHEETS 1-20 & 41-52  
KEVIN L. KUHN, PE  
STATE OF ILLINOIS NO. 062-056868  
EXPIRES NOV. 30, 2021

**FUNCTIONAL CLASSIFICATION:**  
OTHER PRINCIPAL ARTERIAL  
2019 ADT = 3,900  
PV = 87.05% SU = 3.33% MU = 9.62%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 5, 20 21

*Jay P. Myers*  
REGIONAL ENGINEER

March 19, 2021  
*Kevin L. Kuhn*  
ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2021  
*James J. ...*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

**GENERAL NOTES**

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

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SEEDED, FERTILIZED, AND MULCHED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO HOT-MIX ASPHALT SURFACE REMOVAL AND/OR RESURFACING.

NO PASSING ZONES SHALL BE FIELD VERIFIED BY OPERATIONS, (217) 785-5312, 14 DAYS PRIOR TO FINAL PAVEMENT MARKINGS.

ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1 1/2" UNLESS OTHERWISE SPECIFIED IN A DETAIL SHOWN IN THE PLANS.

SHOULD THE CONTRACTOR REQUEST OLD/EXISTING STRUCTURE PLANS, THEY CAN CONTACT THE DISTRICT SIX PROJECT ENGINEER OR TEAM ENGINEER AS SHOWN ON THE COVER SHEET.

THE ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 6 BUREAU OF OPERATIONS 1-217-782-7314 SHALL BE GIVEN NOTICE OF IMPLEMENTATION OF THE DETOUR 21 DAYS PRIOR TO USING THE DETOUR ROUTE.

HEAVY EQUIPMENT IS NOT ALLOWED ON THE LEVEE. THE LEVEE HAS LIMITED ACCESS FOR CONSTRUCTION. IN A FLOOD EVENT OR AS REQUESTED BY THE LEVEE DISTRICT, THE CONTRACTOR WILL ALLOW THE LEVEE DISTRICT TO HAVE FULL ACCESS TO THE LEVEE.

PRIOR TO CONSTRUCTION OF DRAINAGE ITEMS INCLUDING INLETS, CURB AND GUTTER, PIPE DRAINS AND RIPRAP SWALE, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF PROPOSED GUARDRAIL POSTS. DRAINAGE ITEMS MAY BE ADJUSTED AS NECESSARY TO FIT GUARDRAIL INSTALLATION.

THE CONTRACTOR MUST CONTACT THE FOLLOWING ORGANIZATIONS AT LEAST 72 HOURS BEFORE THE BEGINNING OF CONSTRUCTION:

U.S. ARMY CORPS OF ENGINEERS (USACE) ROCK ISLAND DISTRICT AT (309) 794-5208

THE COAL CREEK DRAINAGE AND LEVEE DISTRICT (CCDL) AT (217) 728-1387

**FOR LIST OF HIGHWAY STANDARDS**

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420401-13 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH REINFORCING OR WIDENING AND RESURFACING
- 515001-04 NAME PLATES FOR BRIDGES
- 542401-04 METAL FLARED END SECTION FOR PIPE CULVERTS
- 602301-04 INLET, TYPE A
- 604011-05 FRAME AND GRATE, TYPE 3V
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-17 TRAFFIC BARRIER TERMINAL, TYPE 6
- 701001-02 OFF-ROAD OPERATIONS, 2 LANE, 2 WAY, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2 LANE, 2 WAY, 15' TO 24" FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2 LANE, 2 WAY, SHORT TIME OPERATIONS
- 701306-04 LANE CLOSURE, 2 LANE, 2 WAY, SLOW MOVING OPERATIONS DAY ONLY (SPEEDS ≥ 45MPH)
- 701311-03 LANE CLOSURE, 2 LANE, 2 WAY MOVING OPERATIONS - DAY ONLY
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 22-7 TYP. APPL. OF T.C.D. FOR RURAL LOC. HWYS (2-LANE 2 WAY RURAL TRAFF.) (RD. CLOSED TO THRU TRAFF.)

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

BITUMINOUS MATERIALS (TACK COAT)	0.025	LBS / SQ FT (ON MILLED SURFACES)
	0.05	LBS/ SQ FT (ON HMA LIFTS)
GRANULAR MATERIALS	1.60	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	4	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
FERTILIZER NUTRIENTS	90	LBS / ACRE
MULCH	2	TONS / ACRE
AGRICULTURAL GROUND LIMESTONE	2	TONS / ACRE
TEMPORARY EROSION CONTROL SEEDING	100	LBS / ACRE

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	HMA SURFACE COURSE	HMA BINDER COURSE	HMA BASE COURSE & HMA SHOULDER (BOTTOM LIFTS)	HMA SHOULDERS (TOP LIFTS)
PG GRADE:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5	IL-9.5FG	IL-19.0	IL-9.5
FRICTION AGGREGATE:	MIX "C"	N/A	N/A	MIX "C"
QUALITY MANAGEMENT:	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A	N/A

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

AT&T DISTRIBUTION

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

**COMMITMENTS**

IF ANY HUMAN REMAINS OR NATIVE AMERICAN CULTURAL ITEMS FALLING UNDER THE NATIVEAMERICAN GRAVES PROTECTION AND PEPATRIATION ACT (NAGPRA) OR ACHAEOLOGICAL EVIDENCE IS DISCOVERED DURING ANY PHASE OF THIS PROJECT, THE MIAMI TRIBE OF OKLAHOMA REQUESTS IMMEDIATE CONSULTATION WITH THE ENTITY OF JURISDICTION FOR THE LOCATION OF DISCOVERY. IN SUCH A CASE, PLEASE CONTACT THE FOLLOWING:

PAUL ST LOUIS, USACE ROCK ISLAND DISTRICT AT (309) 794-5208 OR BY EMAIL AT PAUL.F.ST.LOUIS@USACE.ARMY.MIL

DIANE HUNTER, TRIBAL HISTORIC PRESERVATION OFFICER AT (918) 541-8966 OR BY EMAIL AT DHUNTER@MIAMINATION.COM

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICT 6**

EXAMINED February 1 20 21

*[Signature]*

ENGINEER OF OPERATIONS

EXAMINED January 29 20 21

*[Signature]*

ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED February 1 20 21

*[Signature]*

ENGINEER OF PROGRAM DEVELOPMENT

REV. - MS

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PLOT DATE = 2/3/2021	DATE = 2/3/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIST OF HIGHWAY STANDARDS, GENERAL NOTES,  
COMMITMENTS & SIGNATURES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	2
CONTRACT NO. 72K08			ILLINOIS FED. AID PROJECT	

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80% FED  
20% STATE

CONSTRUCTION CODE

6 - 62770 - 0100

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0010 RURAL	BRIDGE 0010 085-0504 RURAL
20200100	EARTH EXCAVATION	CU YD	64	64	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	10	10	
20300100	CHANNEL EXCAVATION	CU YD	230	230	
20400800	FURNISHED EXCAVATION	CU YD	6025	6025	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	5180	5180	
25000200	SEEDING, CLASS 2	ACRE	1.1	1.1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	99	99	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	99	99	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	99	99	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.2	2.2	
25100115	MULCH, METHOD 2	ACRE	0.75	0.75	
25100630	EROSION CONTROL BLANKET	SQ YD	560	560	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	220	220	
28000400	PERIMETER EROSION BARRIER	FOOT	1137	1137	

\* SPECIALTY ITEM

REV. - MS



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PLOT DATE = 2/3/2021	CHECKED +	REVISED -
	DATE - 2/3/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	

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80% FED  
20% STATE

CONSTRUCTION CODE	
ROADWAY	BRIDGE
0010	0010
RURAL	085-0504
	RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				6-62770-0100	
				0010	0010
				RURAL	085-0504
					RURAL
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28100107	STONE RIPRAP, CLASS A4	SQ YD	119	119	
28100109	STONE RIPRAP, CLASS A5	SQ YD	1818		1818
28200200	FILTER FABRIC	SQ YD	1937	119	1818
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	267	267	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	235	235	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1272	1272	
40600990	TEMPORARY RAMP	SQ YD	82	82	
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	135	135	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	160	160	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	261	261	
44000100	PAVEMENT REMOVAL	SQ YD	316	316	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	49	49	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	504	504	

\* SPECIALTY ITEM

REV. - MS



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	



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80% FED  
20% STATE

CONSTRUCTION CODE	
ROADWAY	BRIDGE
0010	0010
RURAL	085-0504
	RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0010	0010
				RURAL	085-0504
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	94		94
50300225	CONCRETE STRUCTURES	CU YD	95.2		95.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	162.3		162.3
50300260	BRIDGE DECK GROOVING	SQ YD	562		562
50300300	PROTECTIVE COAT	SQ YD	710		710
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	106		106
50401315	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL36N	FOOT	526.5		526.5
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	85600		85600
51201610	FURNISHING STEEL PILES HP12X63	FOOT	540		540
51202305	DRIVING PILES	FOOT	540		540
51203610	TEST PILE STEEL HP12X63	EACH	2		2
51500100	NAME PLATES	EACH	1		1
54262712	METAL FLARED END SECTIONS 12"	EACH	2	2	
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	181		181

\* SPECIALTY ITEM

REV. - MS



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	

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80% FED  
20% STATE

CONSTRUCTION CODE	
6 - 62770 - 0100	
ROADWAY	BRIDGE
0010	0010
RURAL	085 - 0504
	RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	98		98
60100945	PIPE DRAINS 12"	FOOT	41	41	
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	216	216	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	525	525	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	361	361	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
67100100	MOBILIZATION	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	600	600	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	304	304	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	42	42	

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				6 - 62770 - 0100	
				ROADWAY 0010 RURAL	BRIDGE 0010 085 - 0504 RURAL
				80% FED 20% STATE	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	1944		1944
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9		9
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	13		13
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	2		2
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9	9
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1884	1884
	X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	2	2
	X7011801	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
∅	Z0076600	TRAINEES	HOUR	1500	1500
	Z0016702	DETOUR SIGNING	L SUM	1	1
∅	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500	1500
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	152	152

∅ 0042

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

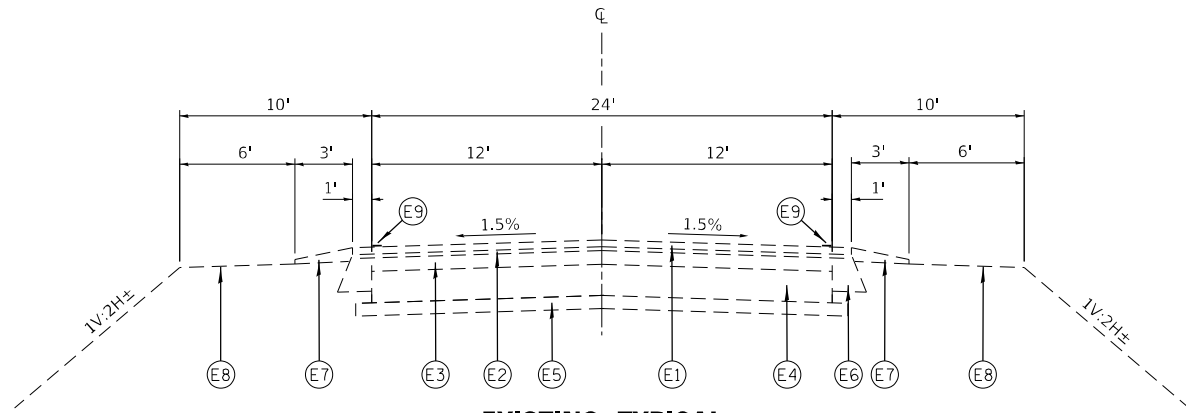
**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	

**PROPOSED LEGEND**

- ① PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH
- ② PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- ③ PROPOSED HMA BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- ④ PROPOSED HMA BASE COURSE 10 1/2"
- ⑤ PROPOSED HMA SHOULDERS, 8" (\*\* SEE HMA SHOULDER DETAIL THIS SHEET)
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE B, 12"
- ⑦ PROPOSED AGGREGATE SHOULDER WEDGE, TYPE B
- ⑧ PROPOSED AGGREGATE SURFACE COURSE, TYPE B, 8"
- ⑨ PROPOSED EARTH SHOULDER
- ⑩ PROPOSED PAVEMENT MARKING LINE, 5"
- ⑪ PROPOSED CONCRETE CURB & GUTTER, TYPE B-6.18
- ⑫ PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT, 15"
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ⑭ PROPOSED TOPSOIL FURNISH AND PLACE, 4"

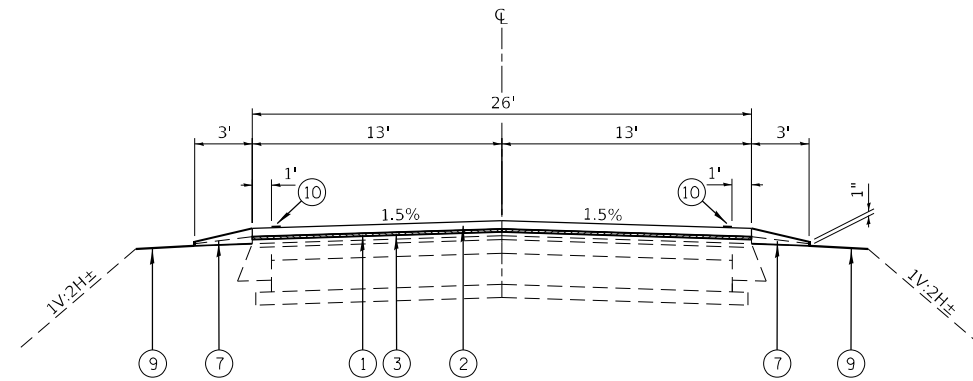


**EXISTING TYPICAL  
US ROUTE 67**

STA. 92+27.00 TO STA. 95+79.00  
BRIDGE OMISSION - STA. 95+79.00 TO STA. 97+91.00  
STA. 97+91.00 TO STA. 100+91.00

**EXISTING LEGEND**

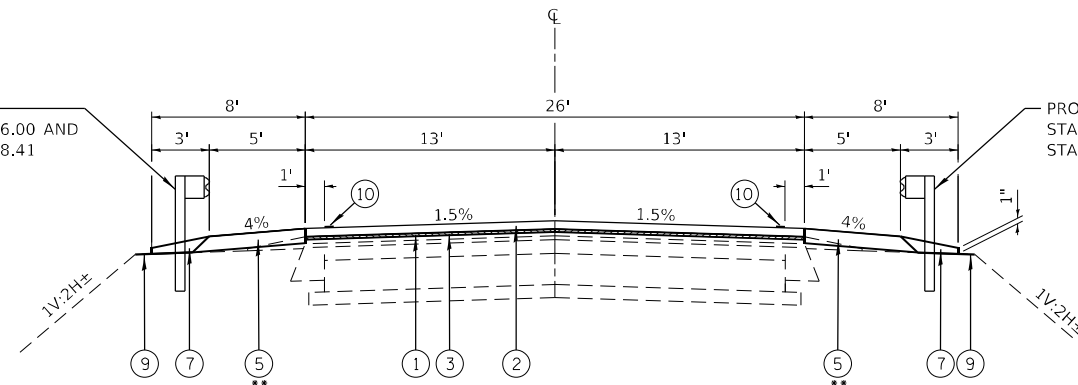
- ⓔ1 EXIST. HMA SURFACE COURSE (1 1/2")
- ⓔ2 EXIST. LEVELING BINDER, (3/4")
- ⓔ3 EXIST. HMA SURFACE COURSE (6" +/-)
- ⓔ4 EXIST. PCC BASE COURSE (8")
- ⓔ5 EXIST. SUB BASE GRANULAR MATERIAL (4")
- ⓔ6 EXIST. BITUMINOUS SHOULDER
- ⓔ7 EXIST. AGGREGATE SHOULDER, TYPE B
- ⓔ8 EXIST. EARTH SHOULDER
- ⓔ9 EXIST. PAVEMENT MARKING LINE 5"



**TYPICAL 1  
PROPOSED US ROUTE 67**

STA. 92+27.00 TO STA. 93+40.00  
STA. 100+38.00 TO STA. 100+91.00

PROPOSED GUARDRAIL  
STA. 94+68.25 TO STA. 95+06.00 AND  
STA. 97+91.00 TO STA. 99+98.41

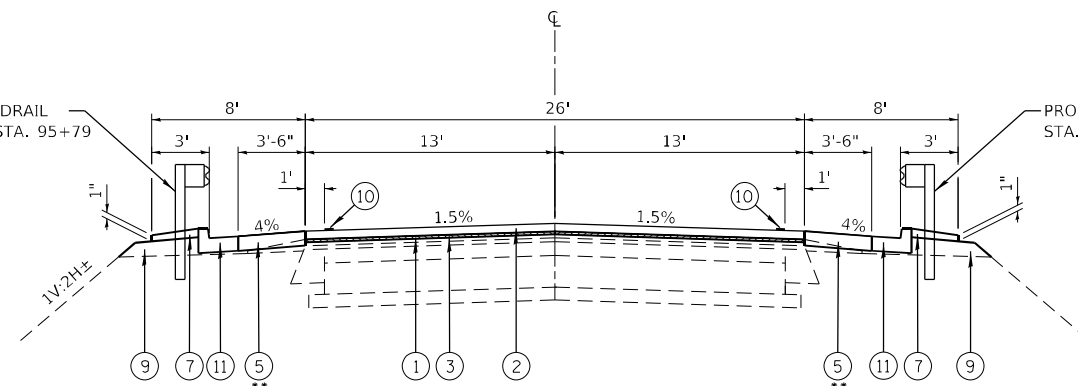


**TYPICAL 2  
PROPOSED US ROUTE 67**

STA. 93+40.00 RT TO STA. 94+36.00 RT  
STA. 93+40.00 LT TO STA. 95+06.00 LT  
STA. 97+91.00 TO STA. 100+38.00

PROPOSED GUARDRAIL  
STA. 93+79.59 TO STA. 94+36.00 AND  
STA. 97+91.00 TO STA. 99+09.75

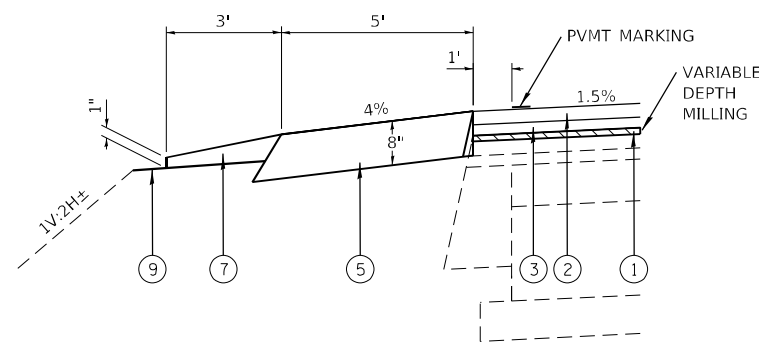
PROPOSED GUARDRAIL  
STA. 95+06 TO STA. 95+79



**TYPICAL 3  
PROPOSED US ROUTE 67**

STA. 94+36.00 RT TO STA. 95+79.00 RT  
STA. 95+06.00 LT TO STA. 95+79.00 LT

PROPOSED GUARDRAIL  
STA. 94+36 TO STA. 95+79



**\*\* HMA SHOULDERS (TYP.)**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
U.S. 67 (F.A.P. RTE 310)**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

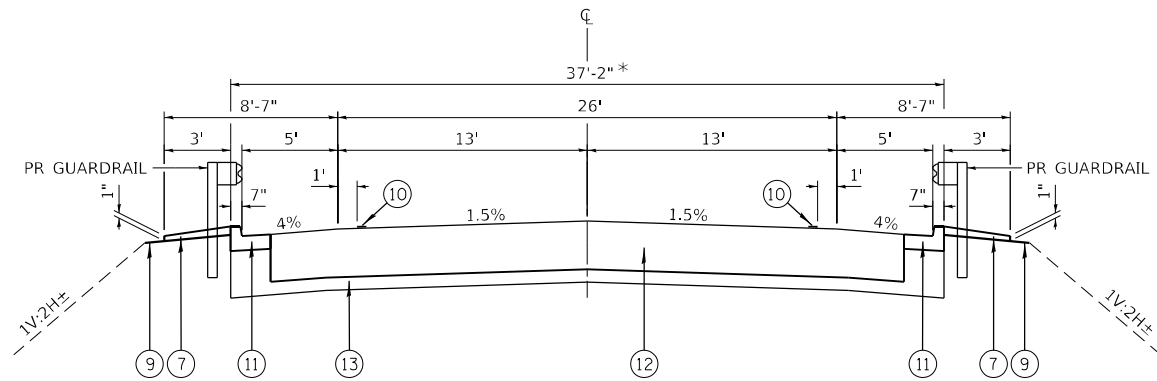
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	8
CONTRACT NO. 72K08			ILLINOIS FED. AID PROJECT	

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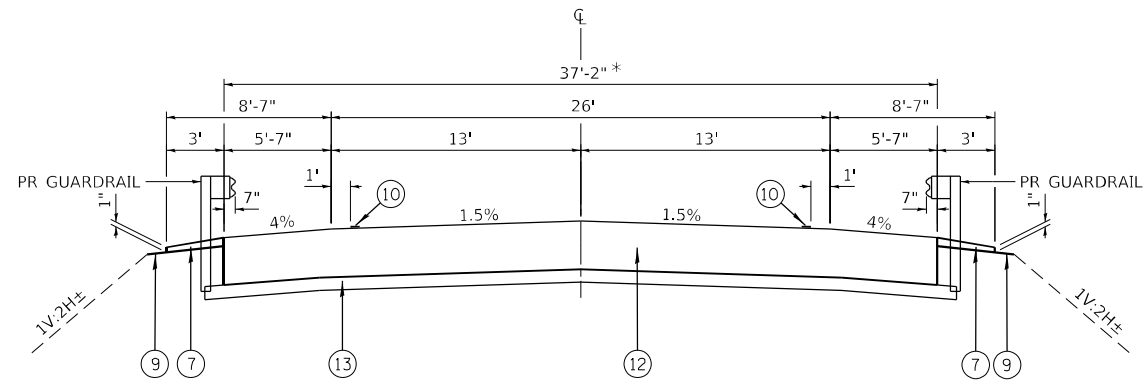
**KT KUHN & TRELLO**  
CONSULTING ENGINEERS  
A Limited Liability Company  
109 N. 7th Street, 3rd Floor  
Springfield, IL 62701  
Phone: 217-673-0244  
Professional Design Firm No. 184-006516

USER NAME = myoung	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/3/2021	CHECKED -	REVISED -
	DATE = 2/3/2021	REVISED -



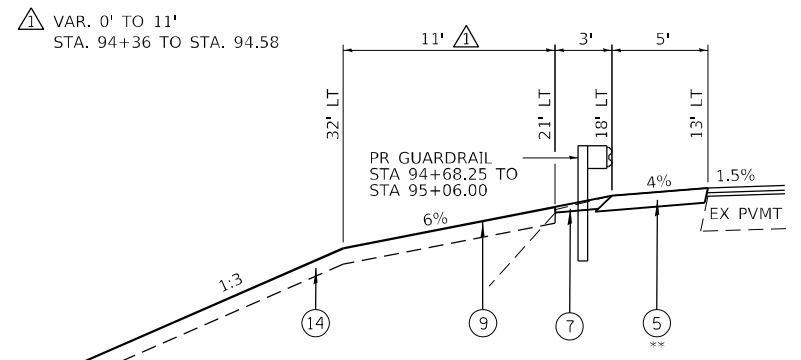


**TYPICAL 4**  
**PROPOSED US ROUTE 67**  
**APPROACH PAVEMENT CONNECTOR SECTION**  
 STA. 95+79.00 TO STA. 96+14.57  
 STA. 96+14.57 TO STA. 97+63.43 - BRIDGE OMISSION

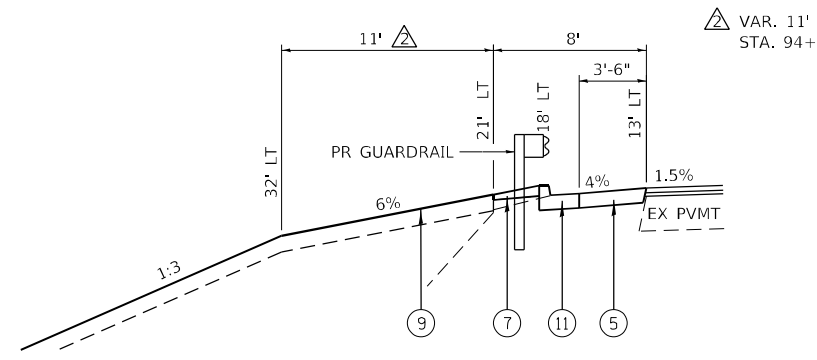


**TYPICAL 5**  
**PROPOSED US ROUTE 67**  
**APPROACH PAVEMENT CONNECTOR SECTION**  
 STA. 96+14.57 TO STA. 97+63.43 - BRIDGE OMISSION  
 STA. 97+63.43 TO STA. 97+91.00

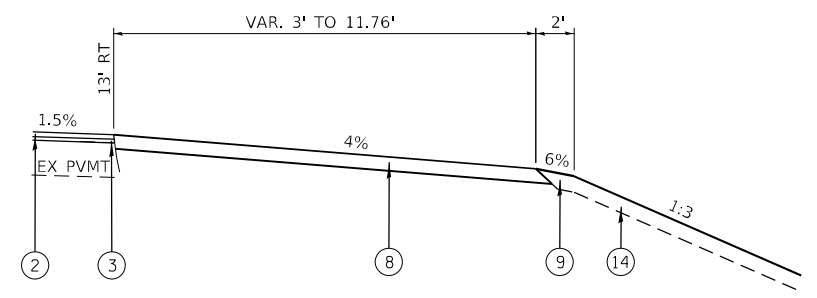
\* PAY WIDTH OF PAVEMENT CONNECTOR. ALL ITEMS WITHIN PAY WIDTH PAID FOR AS PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB



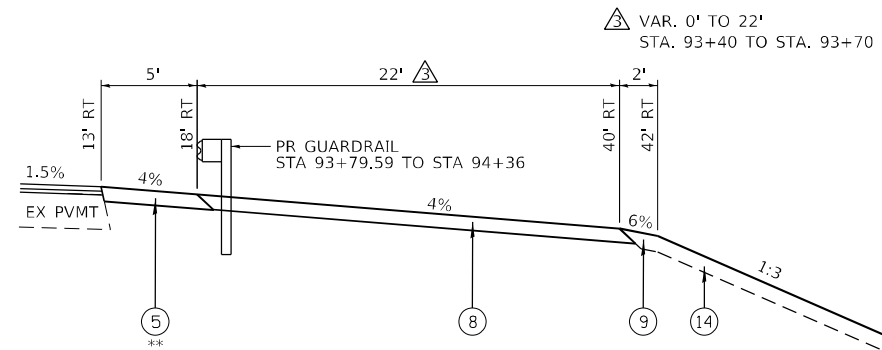
**SPECIAL LEVEL ACCESS SHOULDER, LT**  
 STA. 94+36.00, 21' LT TO STA. 95+06.00



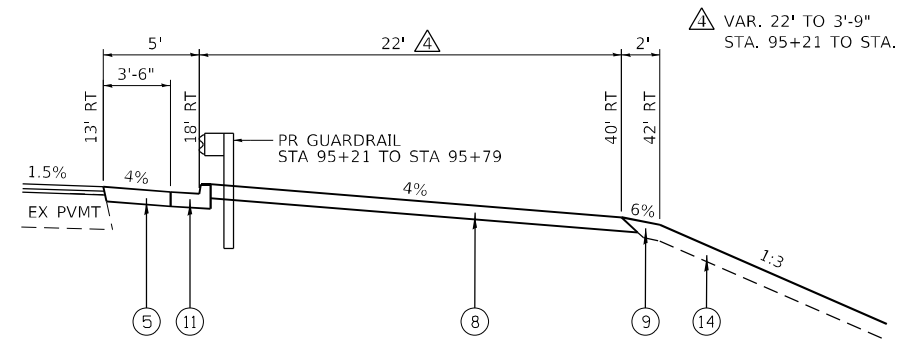
**SPECIAL LEVEL ACCESS SHOULDER, LT**  
 STA. 95+06.00 TO STA. 96+15.00



**SPECIAL LEVEL ACCESS SHOULDER, RT**  
 STA. 93+18.00 TO STA. 93+40.00



**SPECIAL LEVEL ACCESS SHOULDER, RT**  
 STA. 93+40.00 TO STA. 94+36.00



**SPECIAL LEVEL ACCESS SHOULDER, RT**  
 STA. 94+36.00 TO STA. 95+79.00

**PROPOSED LEGEND**

- ① PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH
- ② PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- ③ PROPOSED HMA BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- ④ PROPOSED HMA BASE COURSE 10 1/2"
- ⑤ PROPOSED HMA SHOULDERS, 8"  
 (\*\* SEE SHEET 8 FOR HMA SHOULDER DETAIL)
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE B, 12"
- ⑦ PROPOSED AGGREGATE SHOULDER WEDGE, TYPE B
- ⑧ PROPOSED AGGREGATE SURFACE COURSE, TYPE B, 8"
- ⑨ PROPOSED EARTH SHOULDER
- ⑩ PROPOSED PAVEMENT MARKING LINE, 5"
- ⑪ PROPOSED CONCRETE CURB & GUTTER, TYPE B-6.18
- ⑫ PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT, 15"
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ⑭ PROPOSED TOPSOIL FURNISH AND PLACE, 4"

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	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/3/2021	DATE = 2/3/2021	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
<b>U.S. 67 (F.A.P. RTE 310)</b>	
SCALE:	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	9
CONTRACT NO. 72K08			ILLINOIS FED. AID PROJECT	

GUARDRAIL REMOVAL SCHEDULE

LOCATION		SIDE	GUARDRAIL REMOVAL
STATION TO	STATION		63200310 FOOT
95+50.7	96+45.9	LT	100
95+51.7	96+19.6	RT	68
97+26.9	98+45.2	RT	118
97+53.5	98+23.8	LT	75
TOTAL			361
USE			361

CHANGEABLE MESSAGE SIGNS

LOCATION	COMMENT	# OF CMS BOARDS	DAYS UTILIZED	CHANGEABLE MESSAGE SIGN
				70107025 CAL DA
US 67 NB AT BEGINNING OF PROJECT - IL 103/100/US 67	BEARDSTOWN	2	120	240
JUNCTION IL 103/US 24/VANCIL RD	RIPLEY	1	120	120
US 67 SB AT THE END OF PROJECT	RUSHVILLE	1	120	120
US 24 SB AT THE END OF PROJECT	RUSHVILLE	1	120	120
TOTALS				600

CONTRACTOR TO VERIFY FINAL LOCATION WITH ENGINEER

PAVEMENT REMOVAL SCHEDULE

LOCATION		PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
STATION TO	STATION	44000100 SQ YD	X4401198 SQ YD
92+27	95+79		1,016.9
95+79	96+28.18	159.9	
97+41.68	97+91.00	156.1	
97+91	100+91		866.7
TOTAL		316.0	1,883.6
USE		316	1,884

GUARDRAIL & BARRIER MARKER SCHEDULE

LOCATION	SIDE	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE C
STATION TO	STATION	63000001 FOOT	63100085 EACH	63100167 EACH	72501000 EACH	78200005 EACH	78200011 EACH
93+79.59	96+17.09	162.5	1	1	1	4	
94+68.25	96+43.25	100.0	1	1	1	2	
96+75.92							1
97+02.08							1
97+34.75	99+09.75	100.0	1	1	1	3	
97+60.91	99+98.41	162.5	1	1	1	4	
TOTAL		525.0	4	4	4	13	2
USE		525	4	4	4	13	2

RIGHT OF WAY MARKER SCHEDULE

LOCATION		SIDE	COORDINATES		FURNISHING AND ERECTING RIGHT OF WAY MARKERS
STATION	OFFSET		NORTHING	EASTING	66600105 EACH
92+85.00	60.00'	RT	1230923.85	2209096.76	1
93+25.00	60.00'	LT	1230844.80	2208998.01	1
93+35.00	95.00'	RT	1230980.39	2209073.78	1
93+75.00	90.00'	LT	1230846.76	2208939.74	1
TOTAL					4
USE					4

DRAINAGE SCHEDULE

LOCATION	SIDE	METAL FLARED END SECTIONS 12"	PIPE DRAINS 12"	INLETS, TYPE A, TYPE 3V FRAME AND GRATE
STATION TO	STATION	54262712 EACH	60100945 FOOT	X6020074 EACH
94+50		1	26.0	1
95+20		1	15.0	1
TOTAL		2	41.0	2
USE		2	41	2

EROSION CONTROL SCHEDULE

LOCATION	SIDE	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
STATION TO	STATION	25100630 SQ YD	28000250 POUND	28000400 FOOT	28000500 EACH
92+50	95+26			314.0	
92+50	96+27	244.0	54		
93+40	96+01			323.0	
93+50	96+61	199.0	62		
94+50					1
95+20					1
97+16	97+80	67.0			
97+16	100+91		4		
97+51	97+70	39.0			
97+51	101+22		94		
98+90	99+10	10.0			
98+90	101+23			500.0	
TOTAL		559.0	214.0	1,137.0	2
USE		560	220	1,137	2

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DRAWN -  
PLOT SCALE = 2.0000' / in.  
PLOT DATE = 2/3/2021

DESIGNED -  
REVISOR -  
CHECKED -  
DATE = 2/3/2021

REVISED -  
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	

REV. - MS

EARTHWORK SCHEDULE

LOCATION	COMMENT	EARTH EXCAVATION	EXCAVATING AND GRADING EXISTING SHOULDER	FURNISHED EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"
		20200100 CU YD	20200600 UNIT	20400800 CU YD	21101615 SQ YD
STA 92+27 TO STA 100+91	LT & RT	64		3855	3482
STA 93+40 TO STA 95+79	LT & RT		4.8		
STA 97+91 TO STA 100+38	LT & RT		5.0		
STA 100+60	FE, LT			2218	1698
TOTAL USE		64	9.8	6025	5180

\* 25% SHRINKAGE ASSUMED FOR EMBANKMENT

SEEDING SCHEDULE

LOCATION	COMMENT	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
		25000200 ACRE	25000400 POUND	25000500 POUND	25000600 POUND	25000700 TON	25100115 ACRE
STA 92+50 TO STA 96+27	RT	0.27	24.3	24.3	24.3	0.55	0.19
STA 93+50 TO STA 96+61	LT	0.31	27.9	27.9	27.9	0.62	0.21
STA 97+16 TO STA 100+91	RT	0.02	1.8	1.8	1.8	0.05	0.01
STA 97+51 TO STA 101+22	LT	0.47	42.3	42.3	42.3	0.94	0.32
TOTAL USE		1.07	96.3	96.3	96.3	2.16	0.73

PAVING SCHEDULE

LOCATION	SUBBASE GRANULAR MATERIAL, TYPE B 4"	AGGREGATE SURFACE COURSE, TYPE B	TEMPORARY RAMP	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, 1L-9.5FG, N50	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N50	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS, 8"	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	
	31101200	40200800	40600990	40600290	40602965	40604050	42000080	48102100	48203029	60604400	
STATION TO	STATION	SQ YD	TON	SQ YD	POUND	TON	TON	SQ YD	TON	SQ YD	FOOT
92+27	92+36.2			41							
92+27	95+79				687	73					
LT 92+27	LT 96+59							16			
RT 92+27	RT 93+22							4			
RT 93+23	RT 95+79		235								
LT 93+40	LT 95+79								121		
RT 93+40	RT 95+79								109		
RT 94+36	RT 95+79										143
LT 95+06	LT 95+79										73
95+79	96+14.57	147					86	147			
RT 95+79	RT 96+28							2			
95+79	100+91				585						
RT 97+20	RT 100+91							14			
LT 97+49.90	LT 100+91							13			
97+63.43	97+91	120					74	114			
97+91	100+91					62					
LT 97+91	LT 100+38								137		
RT 97+91	RT 100+38								137		
100+81.8	100+91			41.0							
TOTAL		267	235	82	1,272	135	160	261	49	504	216

PAVEMENT MARKING SCHEDULE

LOCATION	COMMENT	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
				LINE 5"	LINE 5"	TWO-WAY AMBER	
				WHITE	YELLOW		
STATION TO	STATION	FOOT	SQ FT	FOOT	FOOT	EACH	EACH
92+27	100+91	LT EDGE	20	6.5	864		
92+27	100+91	RT EDGE	20	6.5	864		
92+27	100+91	CENTERLINE	264	29		216	
92+67	100+26	CENTERLINE				9	9
TOTAL THIS SHEET			304	42	1,944	9	9

NOTE: SHORT TERM PAVEMENT MARKING ALONG EDGES ARE SHOULDER DIAGONALS.

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PLOT DATE = 2/3/2021	DATE - 2/3/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

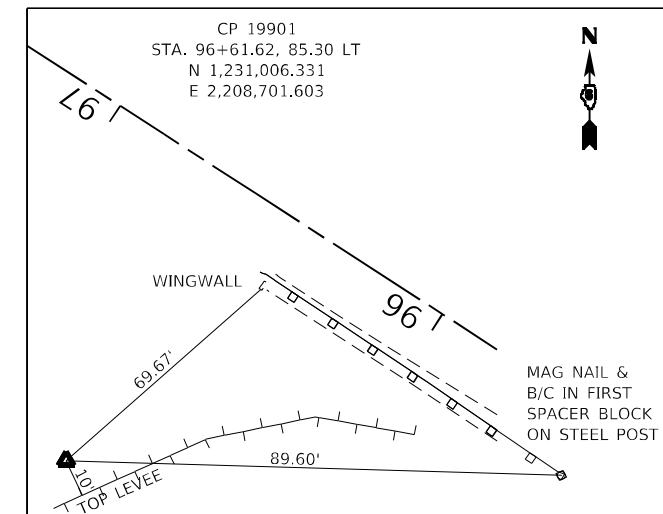
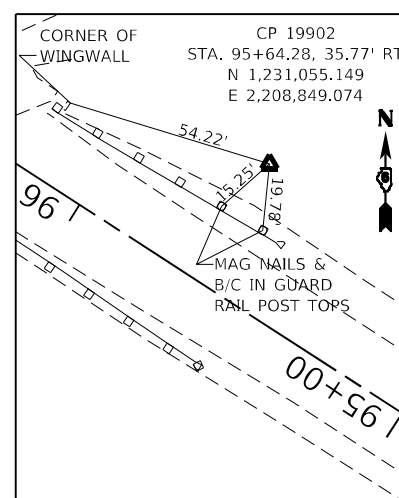
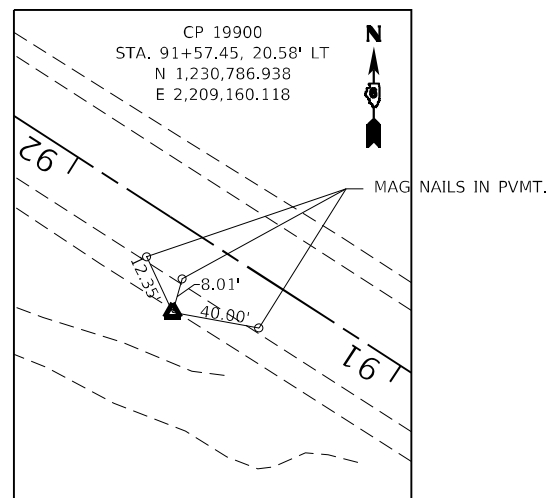
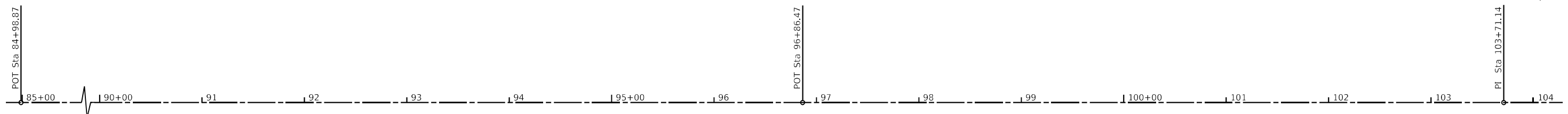
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	11
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				

STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
84+98.87	0.00	1,230,446.629	2,209,724.338	P.O.T.
96+86.47	0.00	1,231,091.4552	2,208,727.0424	P.O.T.
103+71.14	0.00	1,231,463.2030	2,208,152.0930	P.I.

### BENCHMARKS

HORIZONTAL & GPS CONTROL - GRID COORDINATES WERE USED  
 NAD 83 DATUM WITH A 2011 ADJUSTMENT FOR HORIZONTAL CONTROL AND  
 NAVD 88 DATUM WITH A GEOID 12A WAS USED FOR THE VERTICAL CONTROL  
 VERTICAL CONTROL - NAVD 88 DATUM

BM #104 - BRASS TABLET IN SOUTHWEST WINGWALL OF BRIDGE OVER BLUFF DITCH  
 18.1' LT, STA. 96+43, ELEV. = 459.940



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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

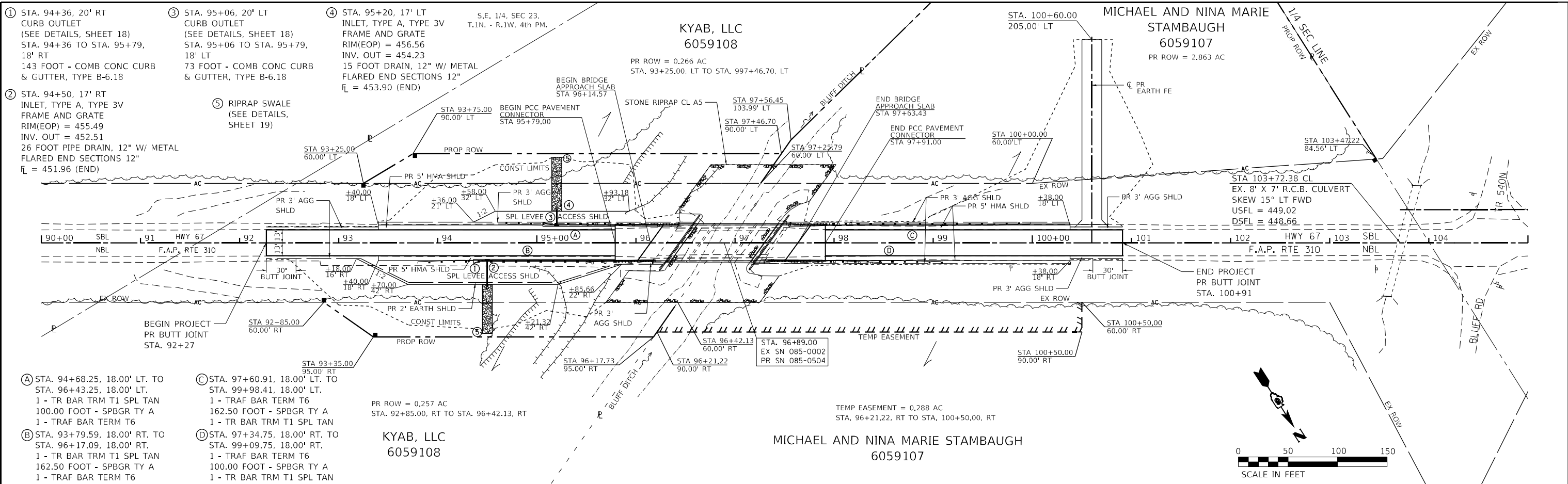
**ALIGNMENT, TIES, & BENCHMARKS**

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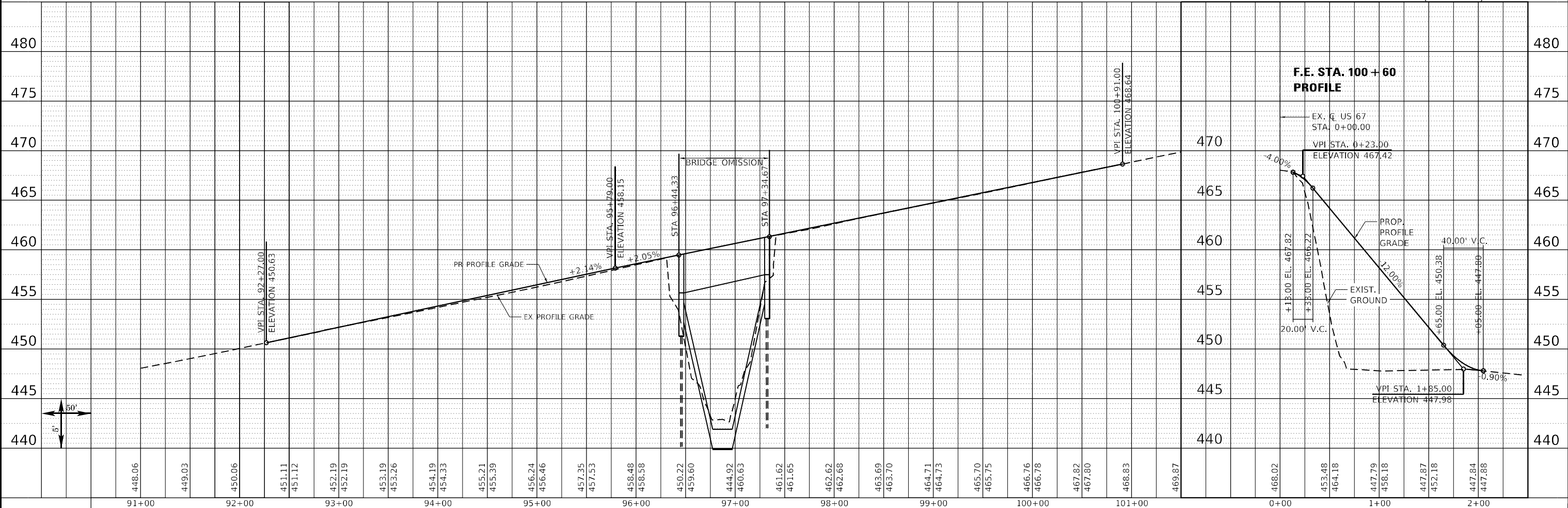
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310	(87) B-2	SCHUYLER	52	12
CONTRACT NO. 72K08			ILLINOIS FED. AID PROJECT	



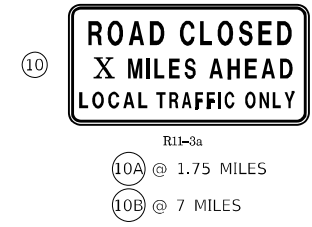
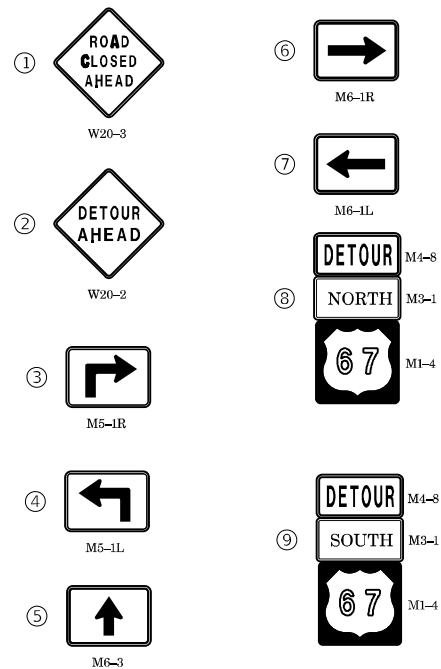
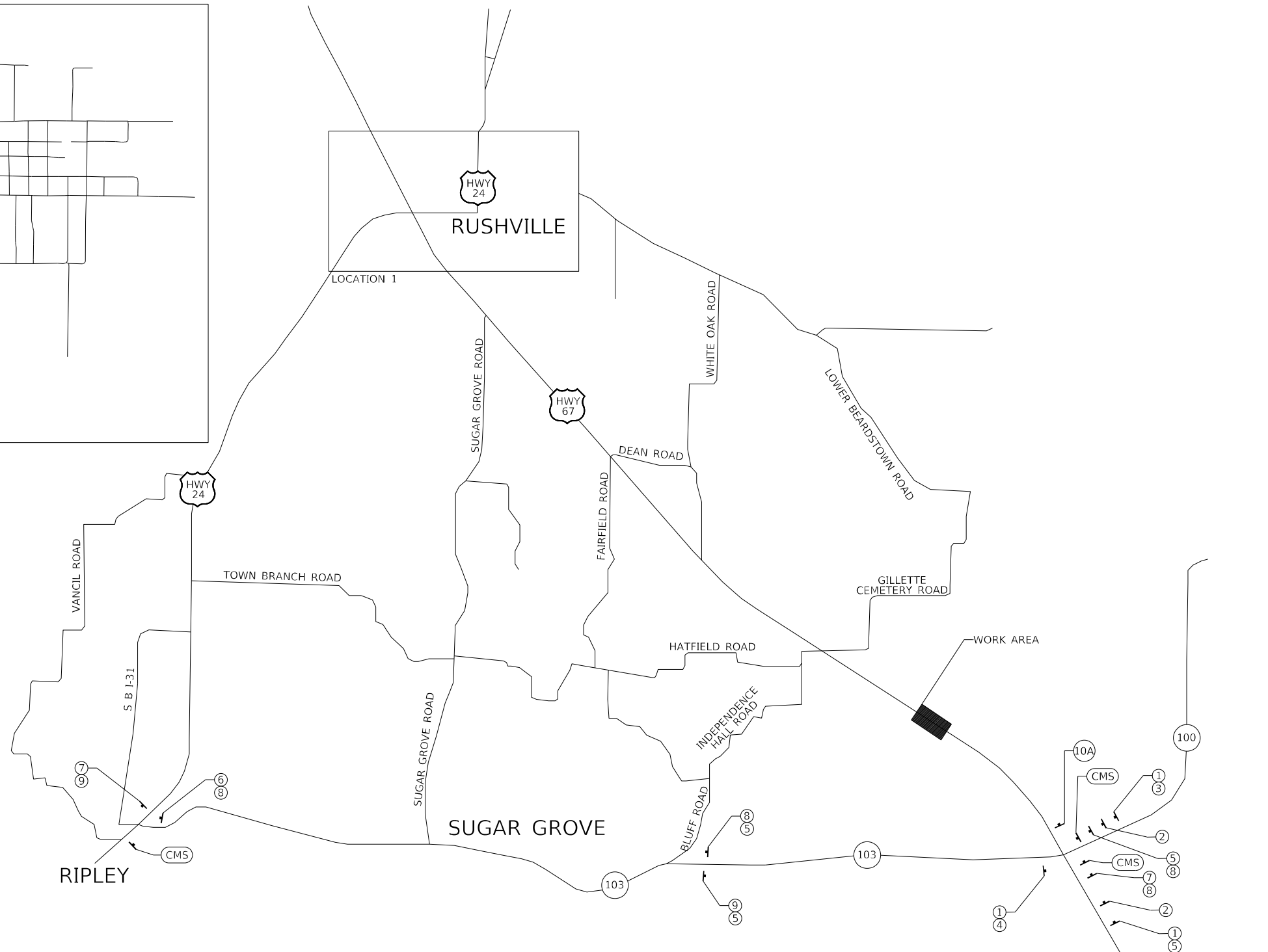
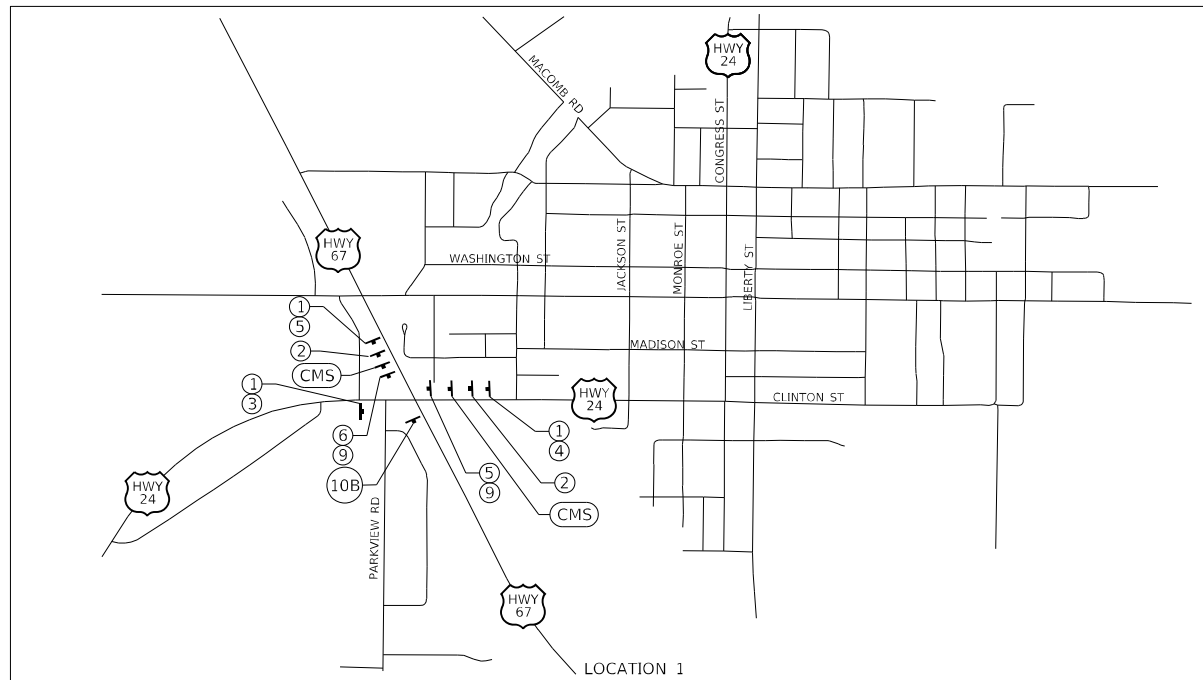
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BY	
PROFILE	
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<b>KUHN &amp; TRELLO</b> CONSULTING ENGINEERS A Limited Liability Company 200 N. 7th Street, 3rd Floor Springfield, IL 62761 Phone: 217-573-0224	USER NAME = myyoung DESIGNED - DRAWN - PLOT SCALE = 100.0000" / in. PLOT DATE = 2/3/2021	REVISIONS 1 - DESIGNED - 2 - DRAWN - 3 - CHECKED - 4 - DATE = 2/3/2021	REVISIONS 1 - REVISED - 2 - REVISED - 3 - REVISED - 4 - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>U.S. 67 (F.A.P. RTE 310)</b> SCALE: SHOWN SHEET 1 OF 1 SHEETS STA. 92+00 TO STA. 101+00	F.A. RTE. 310 SECTION (87) B-2 COUNTY SCHUYLER CONTRACTOR SCHUYLER CONTRACT NO. 72K08 ILLINOIS FED. AID PROJECT	TOTAL SHEETS 52 SHEET NO. 13
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**CHANGEABLE MESSAGE SIGN**  
 "US 67 CLOSED NORTH OF IL 103"

**NOTES:**

- DETOUR SIGNS REQUIRED WILL BE SUPPLIED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR DETOUR SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
- SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
- THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.
- CONTRACTOR SHALL FURNISH ADVANCE WARNING SIGNS, ROAD CLOSURE SIGNS, CHANGEABLE MESSAGE SIGNS, AND TYPE 3 BARRICADES.
- ALL ADVANCE WARNING SIGNS SHALL BE 48" FLUORESCENT ORANGE WITH FLASHING LIGHTS.
- CHANGEABLE MESSAGE SIGNS SHALL BE PAID FOR SEPARATELY.
- DETOUR OR LOAD LIMIT SIGNS ON LOCAL ROADS SHOULD BE AT THE DIRECTION OF THE LOCAL AGENCY.

MODEL: P:\dtd\h\...  
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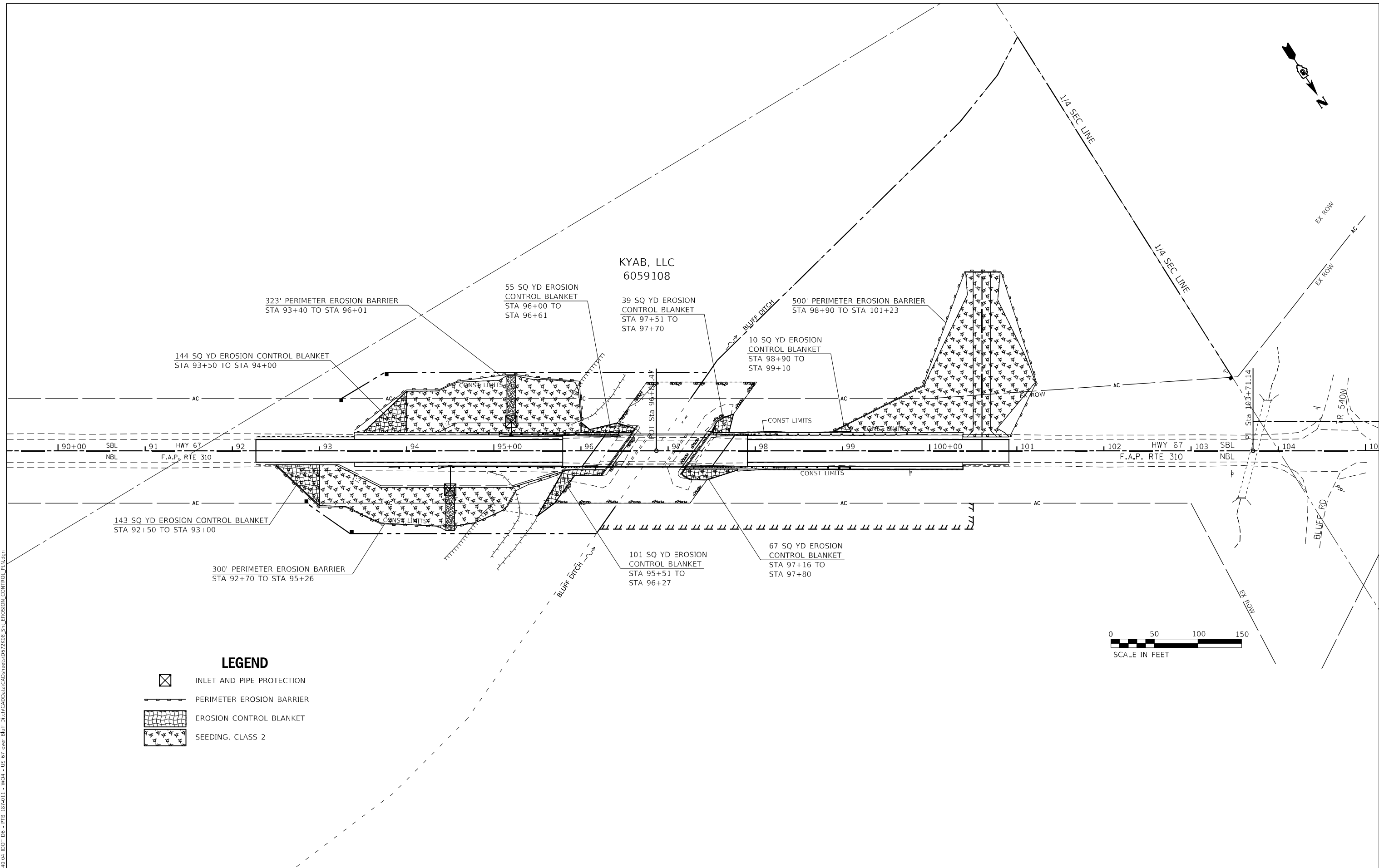


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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

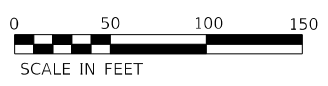
<b>DETOUR PLAN</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	14
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				



**LEGEND**

	INLET AND PIPE PROTECTION
	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET
	SEEDING, CLASS 2



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**KT** **KUHN & TRELLO**  
 CONSULTING ENGINEERS  
 A Limited Liability Company  
 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62701  
 Phone: 217-673-0244  
 Professional Design Firm No. 184-006516

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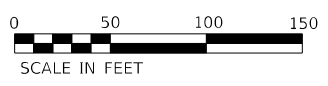
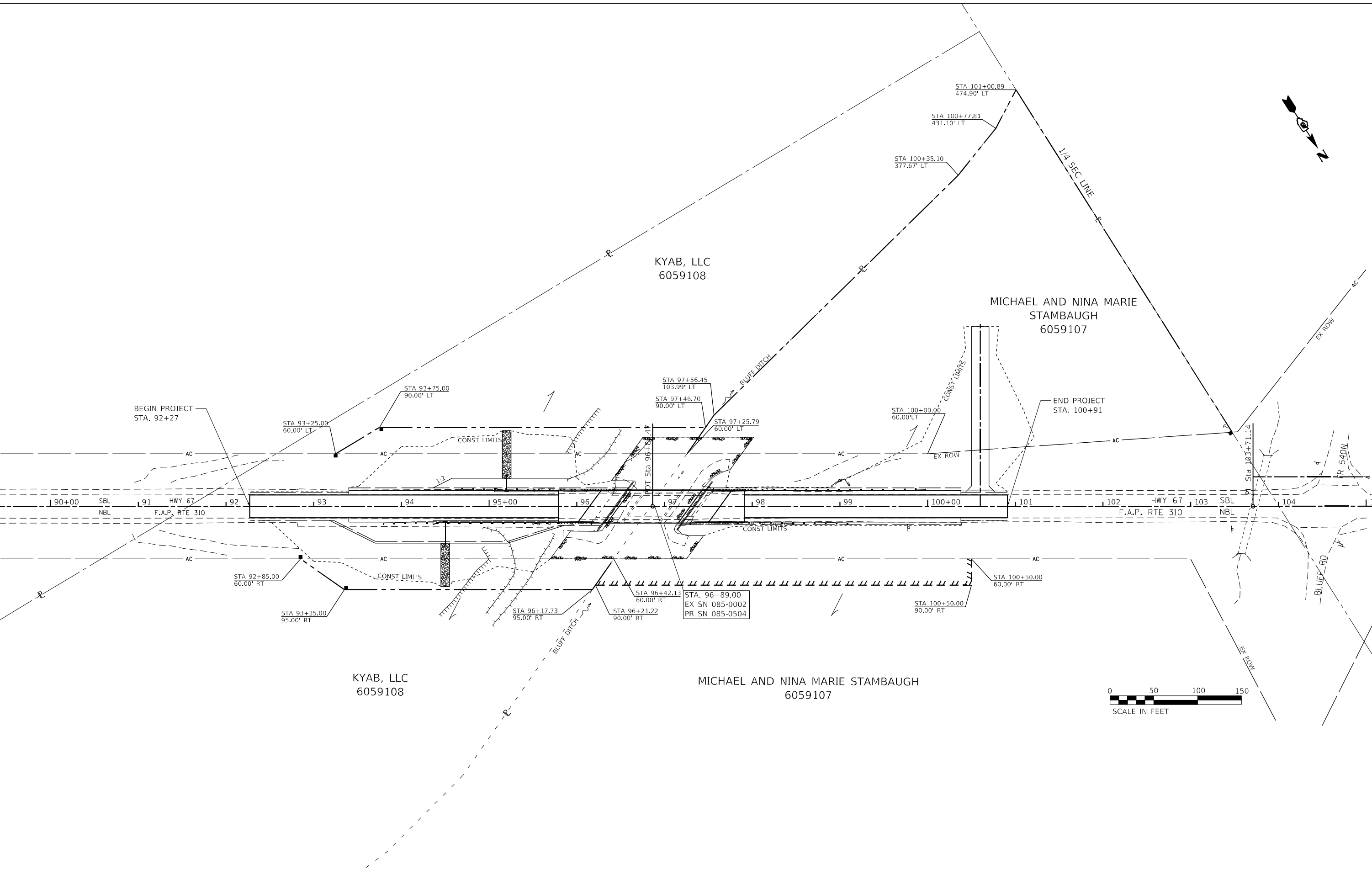
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLANS  
 U.S. 67 (F.A.P. RTE 310)**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	15
CONTRACT NO. 72K08			ILLINOIS FED. AID PROJECT	

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**KT** KUHN & TRELLO  
 CONSULTING ENGINEERS  
 A Limited Liability Company  
 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62701  
 Phone: 217-673-0244  
 Professional Design Firm No. 184-006516

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PLOT DATE = 2/3/2021	DATE = 2/3/2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RIGHT OF WAY PLAN  
 U.S. 67 (F.A.P. RTE 310)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	



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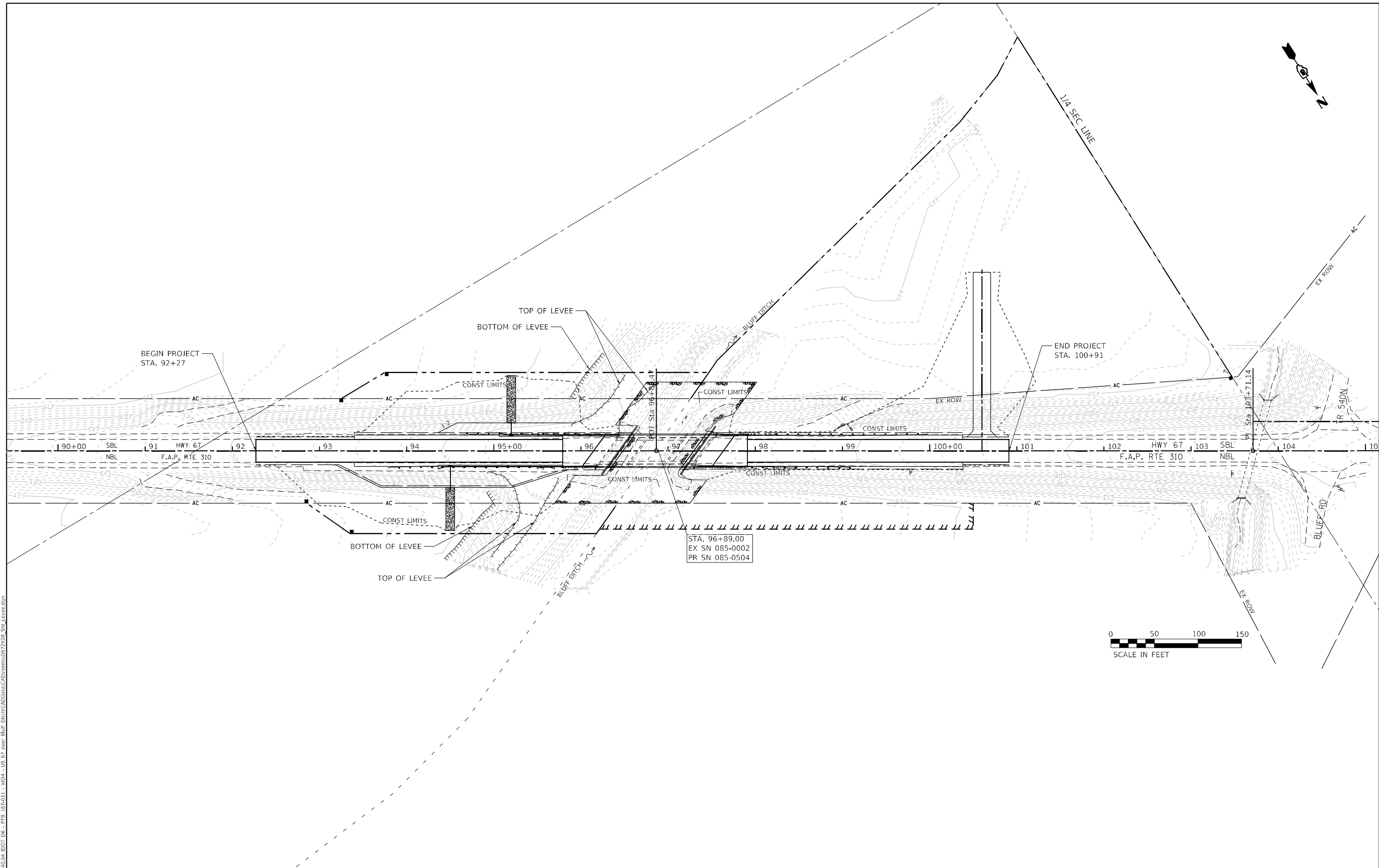


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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

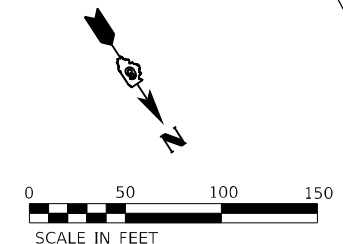
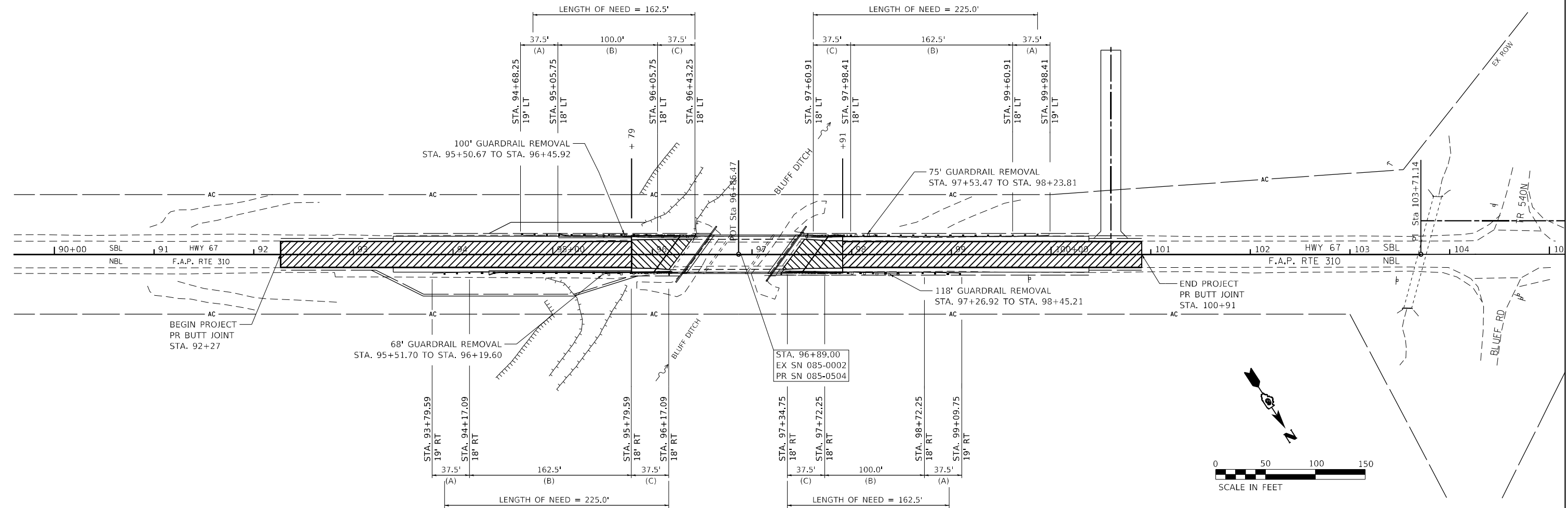
<b>LEVEE PLAN    U.S. 67 (F.A.P. RTE 310)</b>			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	18
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				



**REMOVAL LEGEND**

-  HMA SURFACE REMOVAL, VARIABLE DEPTH
-  PAVEMENT REMOVAL



**GUARDRAIL LEGEND**

- (A) = PAY LIMITS FOR TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (B) = PAY LIMITS FOR STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (C) = PAY LIMITS FOR TRAFFIC BARRIER TERMINAL, TYPE 6

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 CONSULTING ENGINEERS  
 A Limited Liability Company  
 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62701  
 Phone: 217-675-0244

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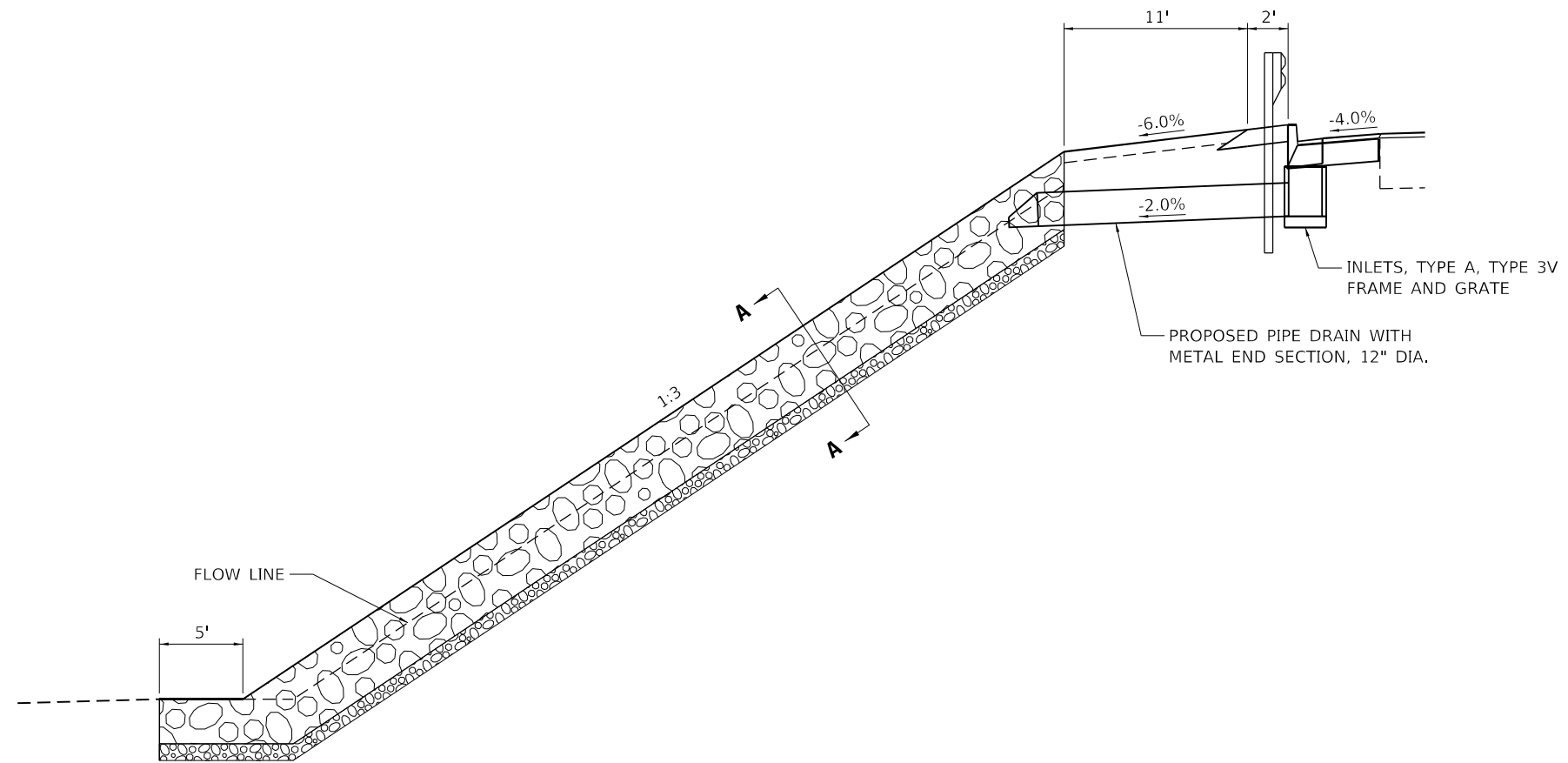
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL & GUARDRAIL PLANS  
 U.S. 67 (F.A.P. RTE 310)**

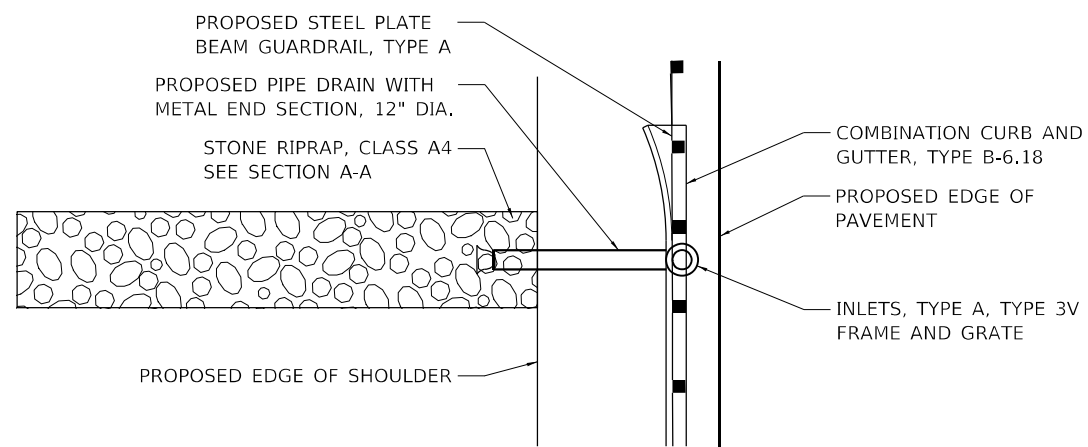
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	17
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				

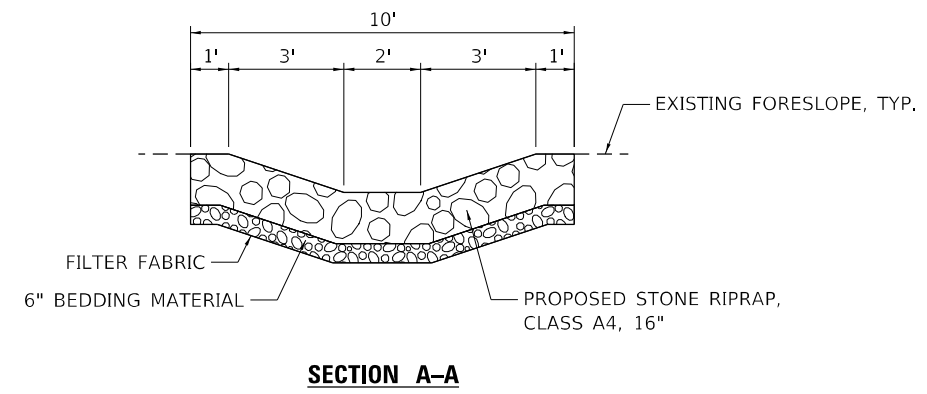




**SECTION**



**PLAN**



**SECTION A-A**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>RIPRAP SWALE DETAILS</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

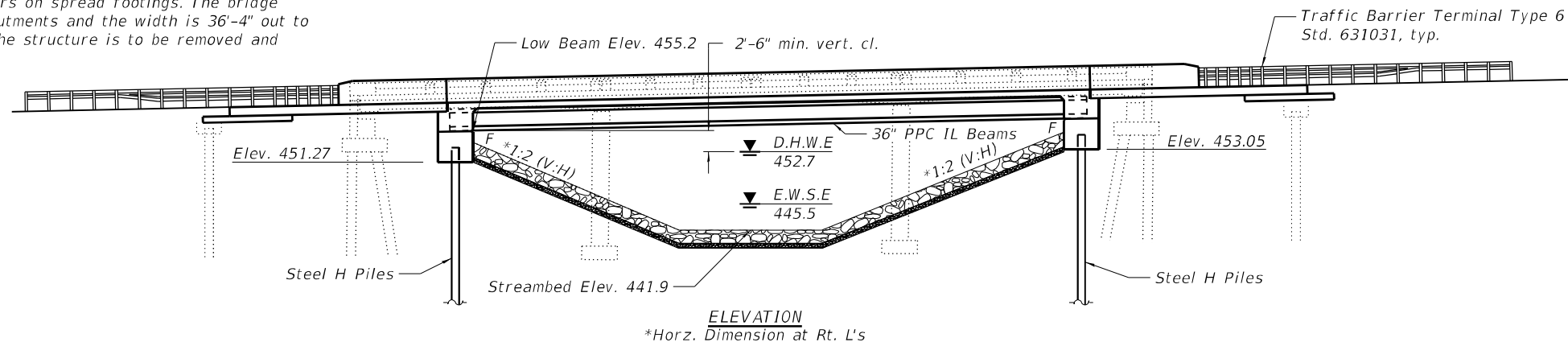
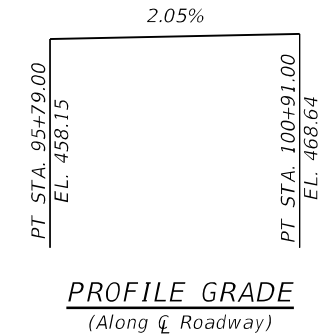
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	20
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				



Benchmark: BM #104 - Brass tablet in Southwest wingwall. Bluff Ditch bridge from field book FAP 310 Book 50, page 8. Elev. 459.940 NAVD 88 Datum

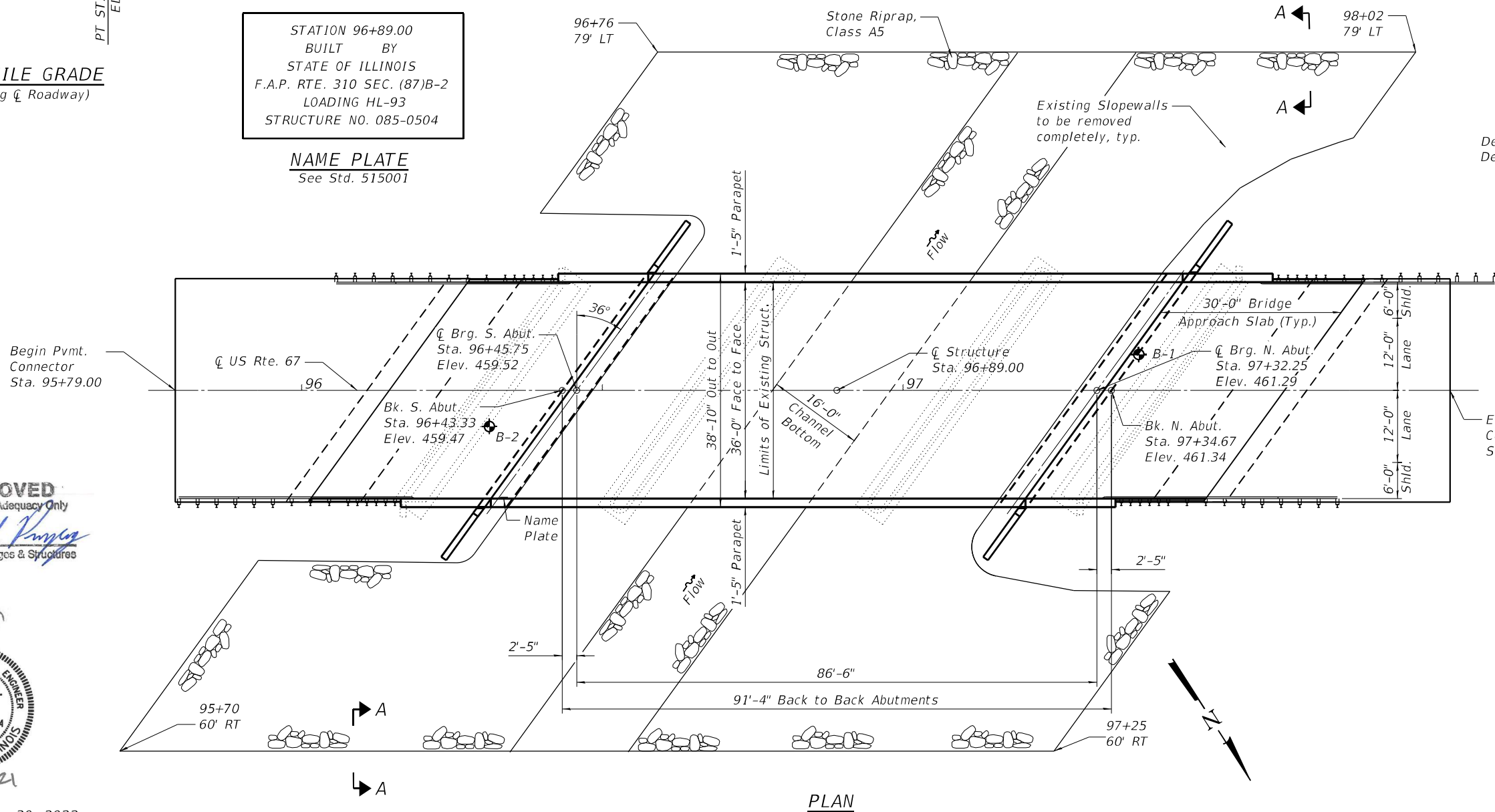
Existing Structure - SN 085-0002, built 1959 as F.A. 4 Sec. 87-B at Sta. 96+88. In 1998, the abutment back walls were removed and replaced as F.A. 4 Sec. 87 B-1, DL. The existing structure is a 3-span bridge with a reinforced concrete slab deck/superstructure, supported by stub abutments on steel piles, and solid wall concrete piers on spread footings. The bridge length is 113'-8" back to back abutments and the width is 36'-4" out to out deck on a 36 degree skew. The structure is to be removed and replaced using full road closure.

No salvage.



STATION 96+89.00  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RTE. 310 SEC. (87)B-2  
LOADING HL-93  
STRUCTURE NO. 085-0504

**NAME PLATE**  
See Std. 515001



**INDEX OF SHEETS**

1	General Plan & Elevation
2	General Data
3-4	Top of Slab Elevations
5-6	Top of Approach Slab Elevations
7	Superstructure
8	Superstructure Details
9	Diaphragm Details
10	Concrete Parapet Slipforming Option
11-12	Bridge Approach Slab Details
13	Framing Plan
14-15	Beam Details
16	South Abutment Details
17	North Abutment Details
18	HP Pile Details
19-20	Boring Logs

**DESIGN STRESSES**

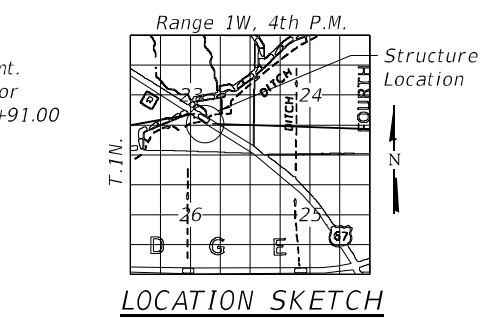
**FIELD UNITS**  
f'c = 3,500 psi (substructure)  
f'c = 4,000 psi (superstructure)  
fy = 60,000 psi (Reinforcement)

**PRECAST PRESTRESSED UNITS**  
f'c = 8,500 psi  
f'ci = 6,500 psi  
fpu = 270,000 psi (0.6" Ø low lax. strands)  
fpbt = 202,300 psi (0.6" Ø low lax. strands)

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 2  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.186g  
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.328g  
Soil Site Class = E

**DESIGN SPECIFICATIONS**  
2020 AASHTO LRF Bridge Design Specifications, Customary U.S. Units, 9th Ed.

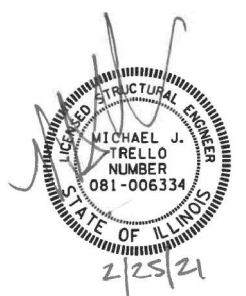
**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.



**GENERAL PLAN & ELEVATION**  
**U.S. RTE. 67**  
**OVER BLUFF DITCH**  
**F.A.P. RTE. 310 - SEC. (87)B-2**  
**SCHUYLER COUNTY**  
**STATION 96+89.00**  
**STRUCTURE NO. 085-0504**

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**APPROVED**  
For Structural Adequacy Only  
*Dr. Carl Kumpke*  
Engineer of Bridges & Structures



Expires: November 30, 2022

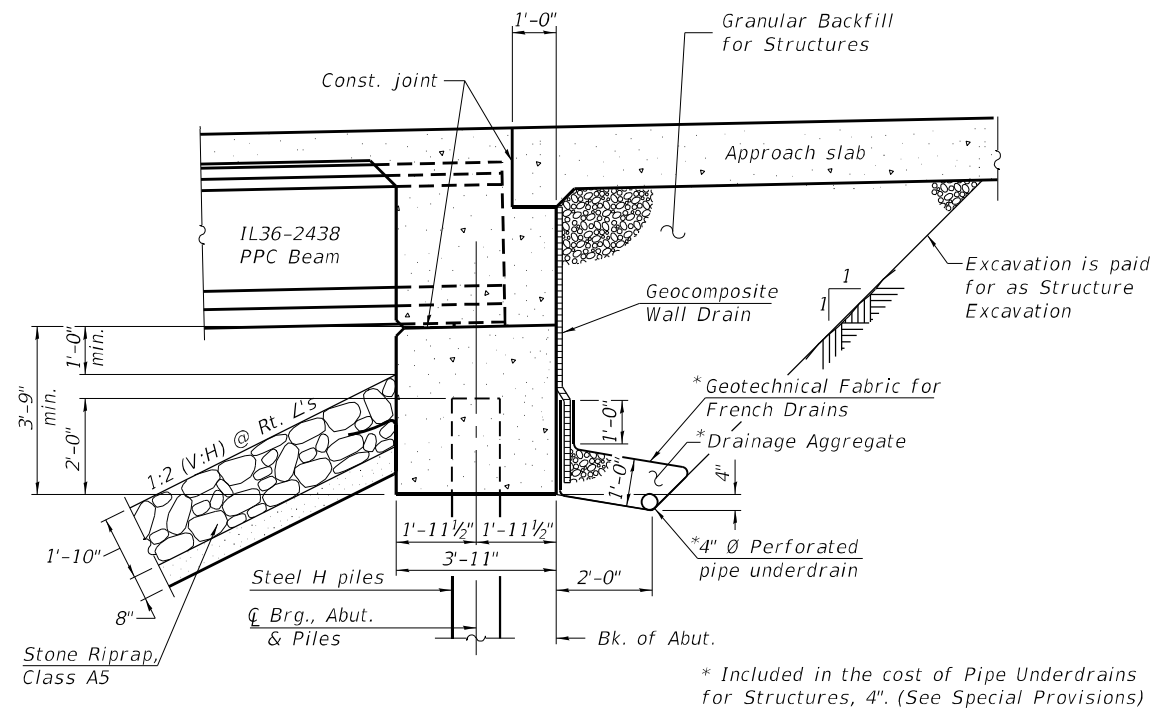
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	PLOT DATE =	DRAWN - MMY	REVISED -		
		CHECKED - SPN	REVISED -		

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

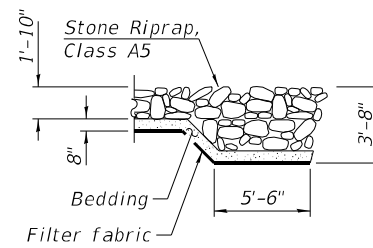
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		1818	1818
Filter Fabric	Sq. Yd.		1818	1818
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		94	94
Concrete Structures	Cu. Yd.		95.2	95.2
Concrete Superstructure	Cu. Yd.	162.3		162.3
Bridge Deck Grooving	Sq. Yd.	562		562
Protective Coat	Sq. Yd.	710		710
Concrete Superstructure (Approach Slab)	Cu. Yd.	106		106
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36N	Foot	526.5		526.5
Reinforcement Bars, Epoxy Coated	Pound	68,450	17,150	85,600
Furnishing Steel Piles, HP 12 x 63	Foot		540	540
Driving Piles	Foot		540	540
Test Pile Steel HP 12 X 63	Each		2	2
Name Plates	Each	1		1
Granular Backfill for Structures	Cu. Yd.		181	181
Geocomposite Wall Drain	Sq. Yd.		98	98
Pipe Underdrain for Structures, 4"	Foot		152	152



**SECTION THRU INTEGRAL ABUTMENT**  
 (Horiz. dim. @ Rt. L's)

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).



**SECTION A-A**

**WATERWAY INFORMATION**

Flood		Freq. Yr.	Dschg (cfs)		Opening Ft <sup>2</sup>		Nat. H.W.E.	Head - Ft.		Headwater El.		Velocities	
			Exist.	Prop.	Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	Main Channel	10	1319	1329	342	360	451.9	0.4	0.3	452.3	452.2	3.9	3.7
	Relief Structure		91	81	23	23							
	Total		1410	1410	365	383							
Base	Main Channel	50	2104	2120	389	406	452.7	0.8	0.6	453.5	453.3		
	Relief Structure		166	150	29	29							
	Total		2270	2270	418	435							
Maximum or Over-topping	Main Channel	100	2468	2488	426	442	453.3	0.9	0.7	454.2	454.0		
	Relief Structure		202	182	34	34							
	Total		2670	2670	460	476							
Maximum or Over-topping	Main Channel	200	2844	2867	465	480	453.9	0.9	0.8	454.8	454.7		
	Relief Structure		246	223	39	39							
	Total		3090	3090	504	514							
Maximum or Over-topping	Main Channel	500	3342	3371	513	525	454.6	1.1	0.9	455.7	455.5		
	Relief Structure		298	269	45	45							
	Total		3640	3640	558	570							

**DESIGN SCOUR ELEVATION TABLE**

Event / Limit	Design Scour Elevations (ft.)		
	S. Abut.	N. Abut.	Item 113
Q100	451.27	453.06	8
Q200	451.27	453.06	
Design	451.27	453.06	
Check	451.27	453.06	
State			

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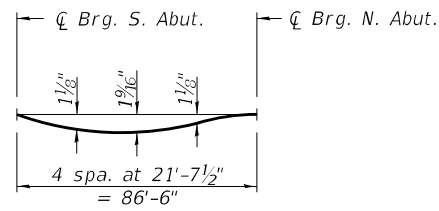
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PLOT DATE =	DRAWN - MMY	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA**  
**STRUCTURE NO. 085-0504**

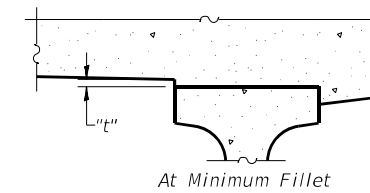
SHEET 2 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	22
CONTRACT NO. 72K08			ILLINOIS FED. AID PROJECT	



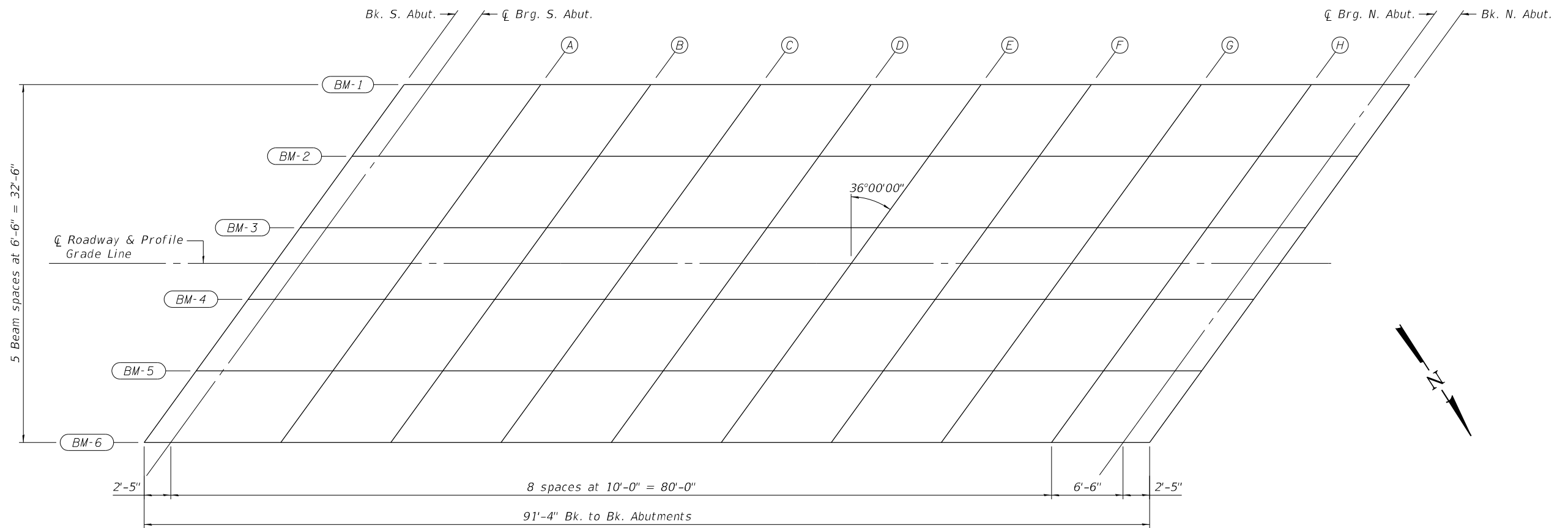
**DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 4 of 20.



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

**FILLET HEIGHTS**



**PLAN**

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E-S 2-17-2017



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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 085-0504**

SHEET 3 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	23
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	96+55.14	-16.25	459.44	459.44
CL Brg. S. Abut.	96+57.56	-16.25	459.49	459.49
A	96+67.56	-16.25	459.70	459.75
B	96+77.56	-16.25	459.90	459.99
C	96+87.56	-16.25	460.11	460.23
D	96+97.56	-16.25	460.31	460.44
E	97+07.56	-16.25	460.52	460.65
F	97+17.56	-16.25	460.72	460.83
G	97+27.56	-16.25	460.93	461.00
H	97+37.56	-16.25	461.13	461.16
CL Brg. N. Abut.	97+44.06	-16.25	461.27	461.27
Bk. N. Abut.	97+46.48	-16.25	461.32	461.32

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	96+50.41	-9.75	459.47	459.47
CL Brg. S. Abut.	96+52.83	-9.75	459.52	459.52
A	96+62.83	-9.75	459.72	459.77
B	96+72.83	-9.75	459.93	460.01
C	96+82.83	-9.75	460.13	460.25
D	96+92.83	-9.75	460.34	460.47
E	97+02.83	-9.75	460.54	460.67
F	97+12.83	-9.75	460.75	460.85
G	97+22.83	-9.75	460.95	461.03
H	97+32.83	-9.75	461.16	461.19
CL Brg. N. Abut.	97+39.33	-9.75	461.29	461.29
Bk. N. Abut.	97+41.75	-9.75	461.34	461.34

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	96+45.69	-3.25	459.47	459.47
CL Brg. S. Abut.	96+48.11	-3.25	459.52	459.52
A	96+58.11	-3.25	459.72	459.77
B	96+68.11	-3.25	459.93	460.01
C	96+78.11	-3.25	460.13	460.25
D	96+88.11	-3.25	460.34	460.47
E	96+98.11	-3.25	460.54	460.67
F	97+08.11	-3.25	460.75	460.85
G	97+18.11	-3.25	460.95	461.03
H	97+28.11	-3.25	461.16	461.19
CL Brg. N. Abut.	97+34.61	-3.25	461.29	461.29
Bk. N. Abut.	97+37.03	-3.25	461.34	461.34

**ROADWAY & PROFILE GRADE LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	96+43.33	0.00	459.47	459.47
CL Brg. S. Abut.	96+45.75	0.00	459.52	459.52
A	96+55.75	0.00	459.72	459.77
B	96+65.75	0.00	459.93	460.02
C	96+75.75	0.00	460.13	460.25
D	96+85.75	0.00	460.34	460.47
E	96+95.75	0.00	460.54	460.67
F	97+05.75	0.00	460.75	460.85
G	97+15.75	0.00	460.95	461.03
H	97+25.75	0.00	461.16	461.19
CL Brg. N. Abut.	97+32.25	0.00	461.29	461.29
Bk. N. Abut.	97+34.67	0.00	461.34	461.34

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	96+40.97	3.25	459.37	459.37
CL Brg. S. Abut.	96+43.39	3.25	459.42	459.42
A	96+53.39	3.25	459.63	459.67
B	96+63.39	3.25	459.83	459.92
C	96+73.39	3.25	460.04	460.15
D	96+83.39	3.25	460.24	460.37
E	96+93.39	3.25	460.44	460.57
F	97+03.39	3.25	460.65	460.76
G	97+13.39	3.25	460.85	460.93
H	97+23.39	3.25	461.06	461.09
CL Brg. N. Abut.	97+29.89	3.25	461.19	461.19
Bk. N. Abut.	97+32.31	3.25	461.24	461.24

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	96+36.25	9.75	459.18	459.18
CL Brg. S. Abut.	96+38.67	9.75	459.23	459.23
A	96+48.67	9.75	459.43	459.48
B	96+58.67	9.75	459.64	459.72
C	96+68.67	9.75	459.84	459.96
D	96+78.67	9.75	460.05	460.18
E	96+88.67	9.75	460.25	460.38
F	96+98.67	9.75	460.46	460.56
G	97+08.67	9.75	460.66	460.74
H	97+18.67	9.75	460.87	460.90
CL Brg. N. Abut.	97+25.17	9.75	461.00	461.00
Bk. N. Abut.	97+27.59	9.75	461.05	461.05

**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	96+31.52	16.25	458.96	458.96
CL Brg. S. Abut.	96+33.94	16.25	459.01	459.01
A	96+43.94	16.25	459.22	459.26
B	96+53.94	16.25	459.42	459.51
C	96+63.94	16.25	459.63	459.74
D	96+73.94	16.25	459.83	459.96
E	96+83.94	16.25	460.04	460.16
F	96+93.94	16.25	460.24	460.35
G	97+03.94	16.25	460.44	460.52
H	97+13.94	16.25	460.65	460.68
CL Brg. N. Abut.	97+20.44	16.25	460.78	460.78
Bk. N. Abut.	97+22.86	16.25	460.83	460.83

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E-S 2-17-2017

 <b>KUHN &amp; TRELLO</b> CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62702 Phone: 217-618-0244 Professional Design Firm No. 284-006516	USER NAME =	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TOP OF SLAB ELEVATIONS</b> <b>STRUCTURE NO. 085-0504</b>	F.A.P. RTE. = 310	SECTION = (87) B-2	COUNTY = SCHUYLER	TOTAL SHEETS = 52	SHEET NO. = 24
	PLOT SCALE =	DRAWN - MMY	REVISED -			CONTRACT NO. 72K08				
	PLOT DATE =	CHECKED -	REVISED -			SHEET 4 OF 20 SHEETS				
						ILLINOIS FED. AID PROJECT				

WEST EDGE OF SHOULDER

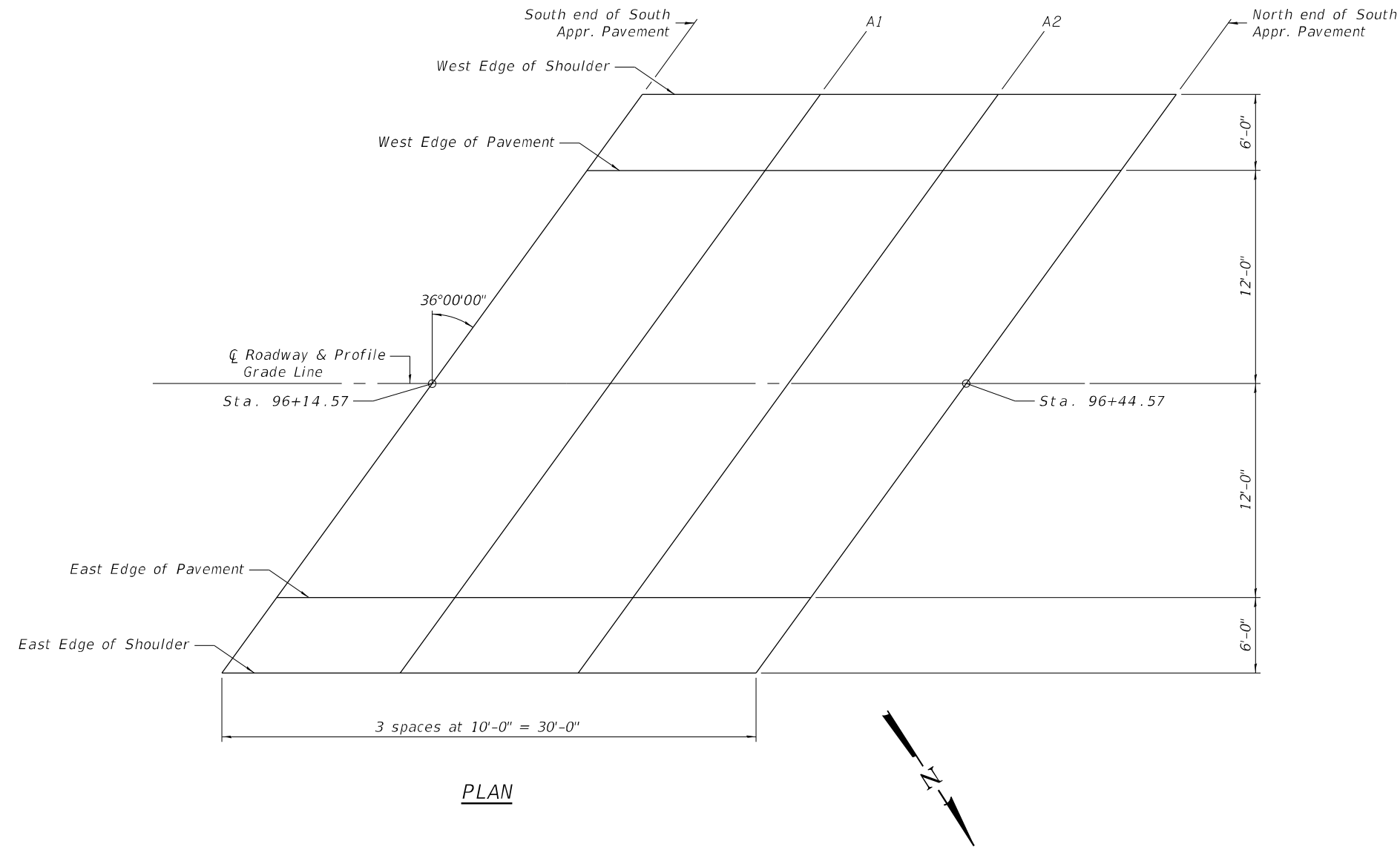
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	96+27.65	-18.00	458.85
A1	96+37.65	-18.00	459.05
A2	96+47.65	-18.00	459.26
N. End of S. Appr.	96+57.65	-18.00	459.46

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	96+23.29	-12.00	458.88
A1	96+33.29	-12.00	459.08
A2	96+43.29	-12.00	459.29
N. End of S. Appr.	96+53.29	-12.00	459.49

☐ PAVEMENT & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	96+14.57	0.00	458.88
A1	96+24.57	0.00	459.08
A2	96+34.57	0.00	459.29
N. End of S. Appr.	96+44.57	0.00	459.49



EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	96+05.85	12.00	458.52
A1	96+15.85	12.00	458.73
A2	96+25.85	12.00	458.93
N. End of S. Appr.	96+35.85	12.00	459.13

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	96+01.49	18.00	458.31
A1	96+11.49	18.00	458.52
A2	96+21.49	18.00	458.72
N. End of S. Appr.	96+31.49	18.00	458.93

E-AS 2-17-2017

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PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 085-0504**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	25
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr.	97+46.51	-18.00	461.28
A3	97+56.51	-18.00	461.49
A4	97+66.51	-18.00	461.69
N. End of N. Appr.	97+76.51	-18.00	461.90

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr.	97+42.15	-12.00	461.31
A3	97+52.15	-12.00	461.52
A4	97+62.15	-12.00	461.72
N. End of N. Appr.	97+72.15	-12.00	461.93

☐ ROADWAY & PROFILE GRADE

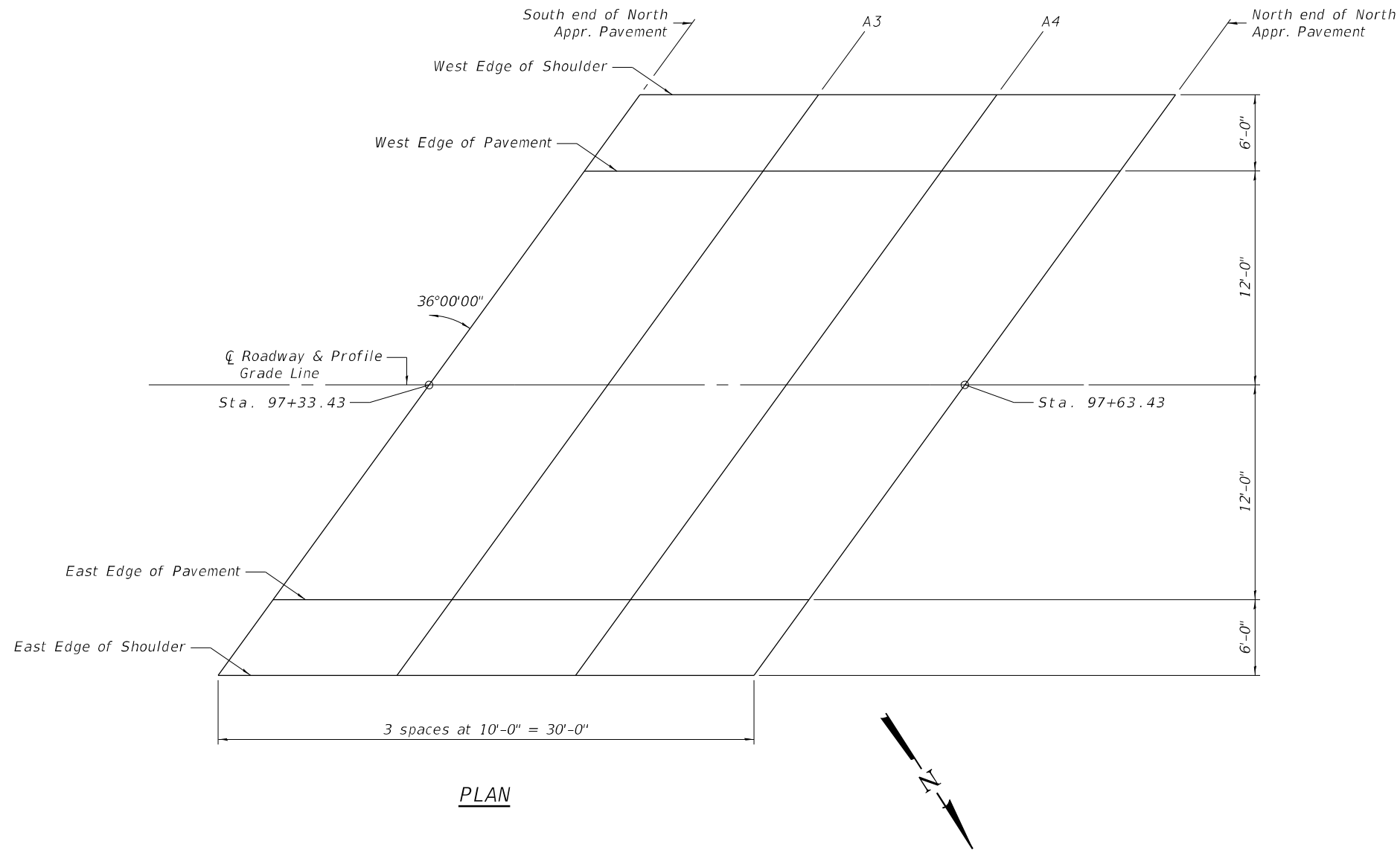
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr.	97+33.43	0.00	461.31
A3	97+43.43	0.00	461.52
A4	97+53.43	0.00	461.72
N. End of N. Appr.	97+63.43	0.00	461.93

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr.	97+24.71	12.00	460.96
A3	97+34.71	12.00	461.16
A4	97+44.71	12.00	461.37
N. End of N. Appr.	97+54.71	12.00	461.57

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr.	97+20.35	18.00	460.75
A3	97+30.35	18.00	460.95
A4	97+40.35	18.00	461.16
N. End of N. Appr.	97+50.35	18.00	461.36



PLAN

E-AS

2-17-2017

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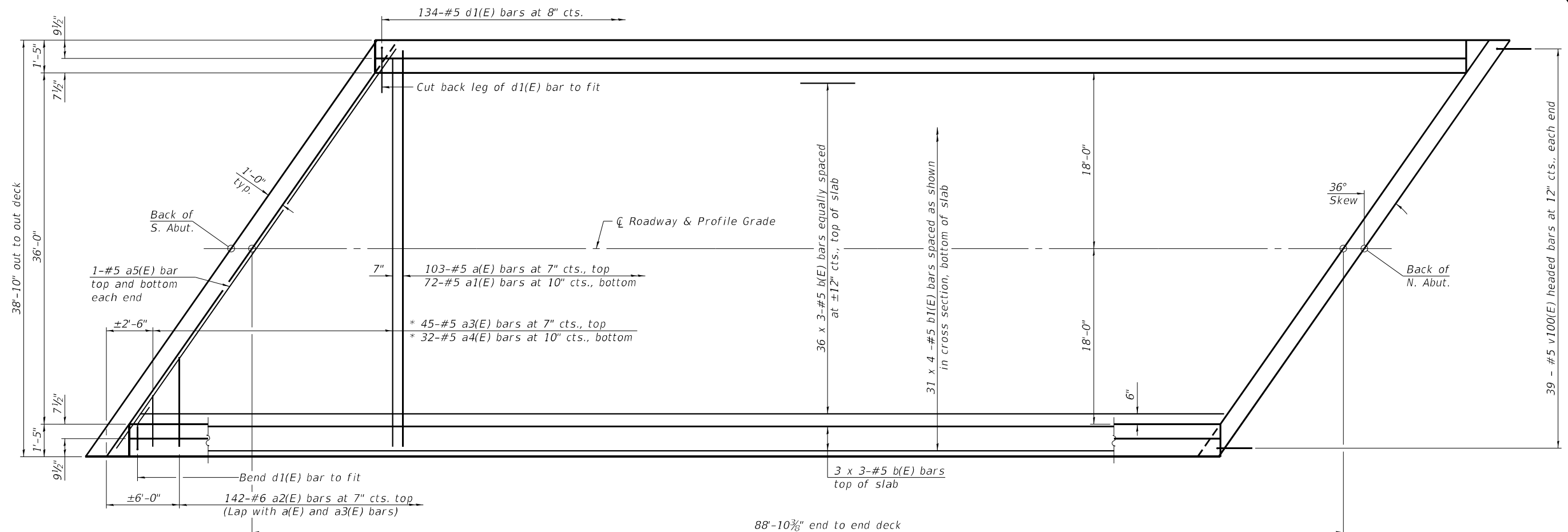
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	CHECKED -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 085-0504**

F.A.P. RTE. 310	SECTION (87) B-2	COUNTY SCHUYLER	TOTAL SHEETS 52	SHEET NO. 26
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				





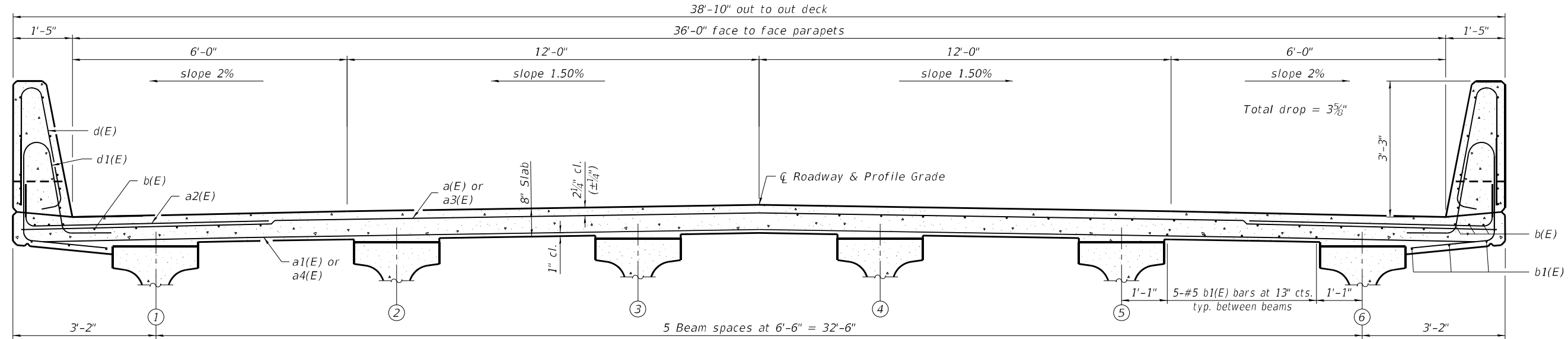
PLAN

MINIMUM BAR LAP

#5 bar = 3'-6"

\* See Field Cutting Diagram on sheet 8 of 20.

Notes:  
See sheet 8 of 20 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.



CROSS SECTION

(Looking North)

SI-IL2772N-1-L(>30°) 6-15-2019



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CHECKED -	CHECKED -	REVISED -
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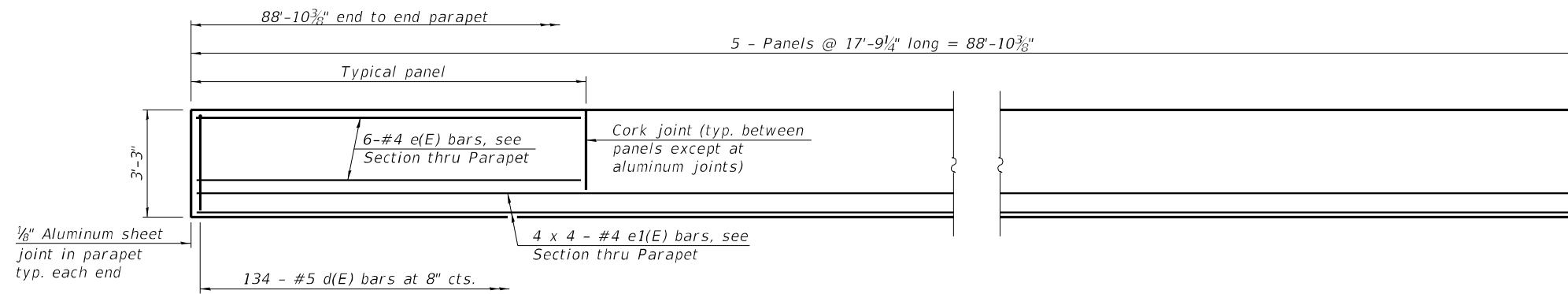
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE  
STRUCTURE NO. 085-0504

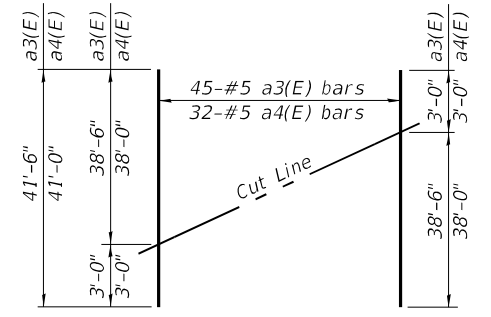
SHEET 7 OF 20 SHEETS

F.A.P. RTE. = 310	SECTION = (87) B-2	COUNTY = SCHUYLER	TOTAL SHEETS = 52	SHEET NO. = 27
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				

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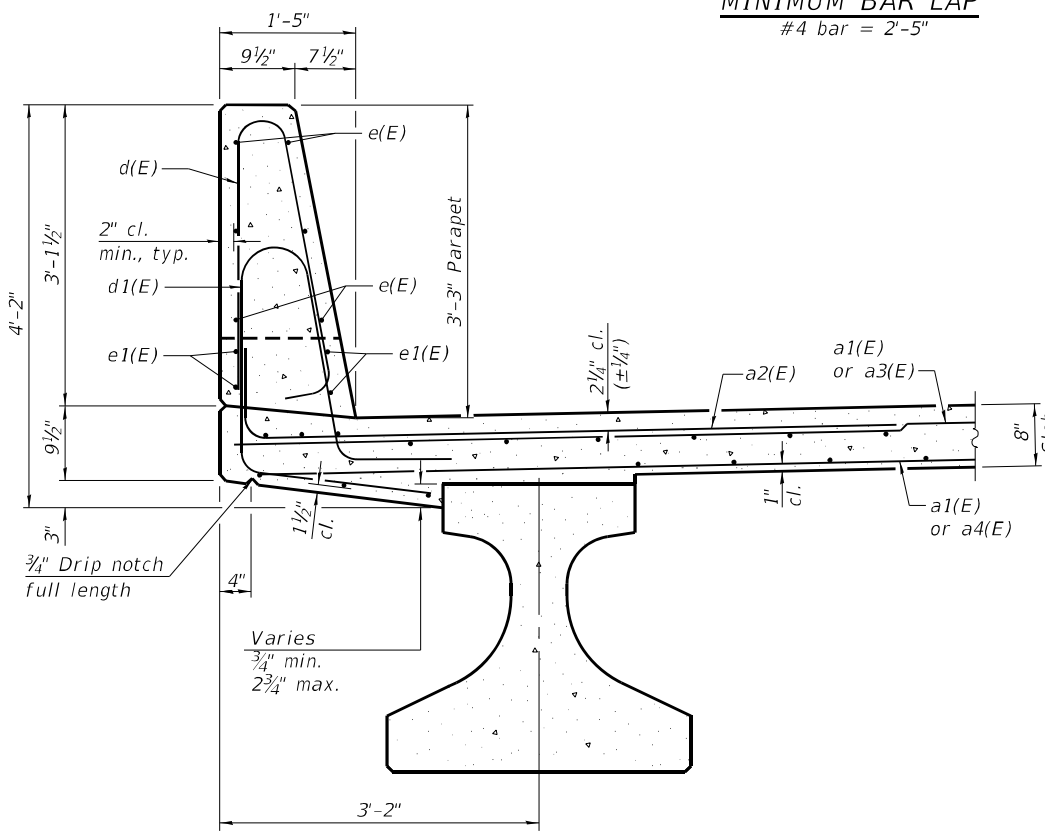
**INSIDE ELEVATION OF PARAPET**



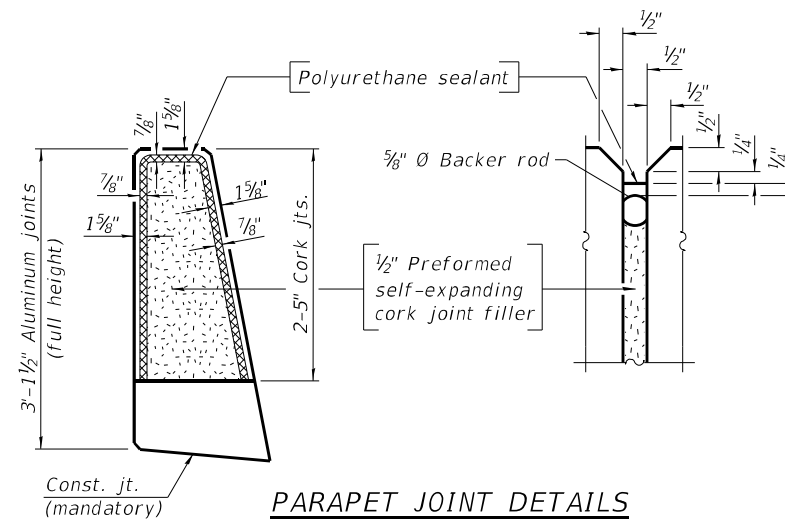
**FIELD CUTTING DIAGRAM**

Order a3(E) and a4(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.

**MINIMUM BAR LAP**  
#4 bar = 2'-5"

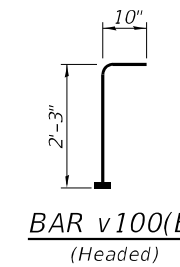


**SECTION THRU PARAPET**

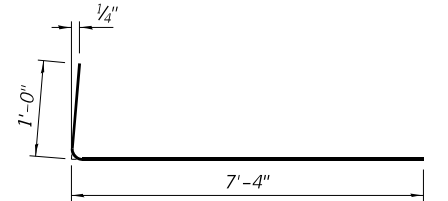


**PARAPET JOINT DETAILS**

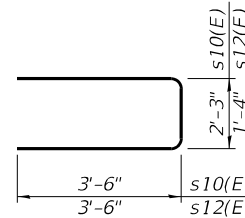
Notes:  
The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.  
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.  
See Sheet 10 of 20 for Concrete Parapet Slipforming Option details.



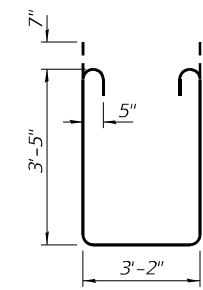
**BAR v100(E)**  
(Headed)



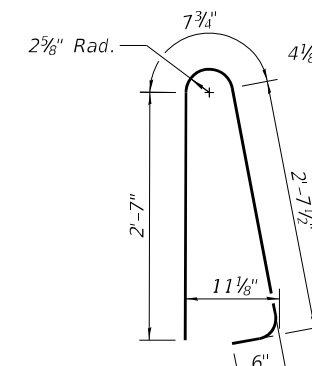
**BAR a2(E)**



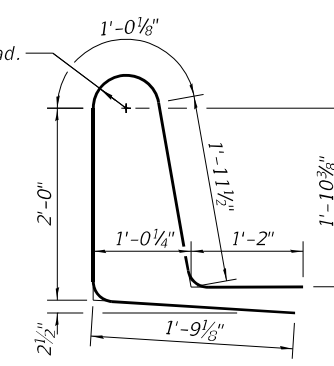
**BARS s10(E) & s12(E)**



**BAR s11(E)**



**BAR d(E)**



**BAR d1(E)**

**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	103	#5	38'-6"	—
a1(E)	72	#5	38'-0"	—
a2(E)	284	#6	8'-4"	—
a3(E)	45	#5	41'-6"	—
a4(E)	32	#5	41'-0"	—
a5(E)	4	#5	47'-7"	—
b(E)	126	#5	31'-10"	—
b1(E)	124	#5	24'-9"	—
d(E)	268	#5	6'-5"	—
d1(E)	268	#5	7'-11"	—
e(E)	60	#4	17'-5"	—
e1(E)	32	#4	23'-11"	—
m10(E)	8	#6	47'-7"	—
m11(E)	20	#6	6'-4"	—
m12(E)	8	#6	2'-10"	—
m13(E)	10	#6	3'-8"	—
m14(E)	4	#6	1'-6"	—
m15(E)	24	#5	4'-0"	—
s10(E)	48	#5	9'-3"	—
s11(E)	48	#5	11'-2"	—
s12(E)	48	#5	8'-4"	—
v100(E)	78	#5	3'-1"	—
Concrete Superstructure		Cu. Yds.	154.5	
Reinforcement Bars, Epoxy Coated		Lbs.	29,310	
Bridge Deck Grooving		Sq. Yds.	336	
Protective Coat		Sq. Yds.	436	

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

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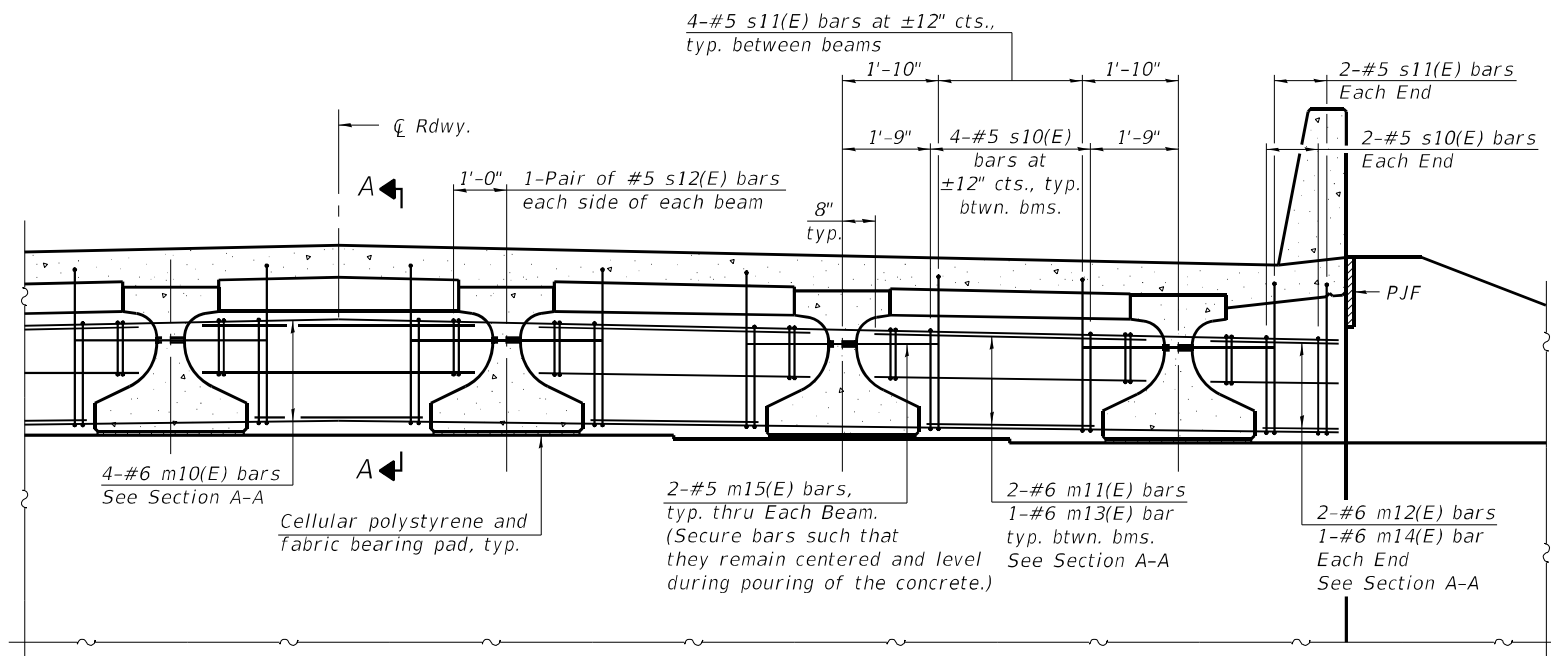


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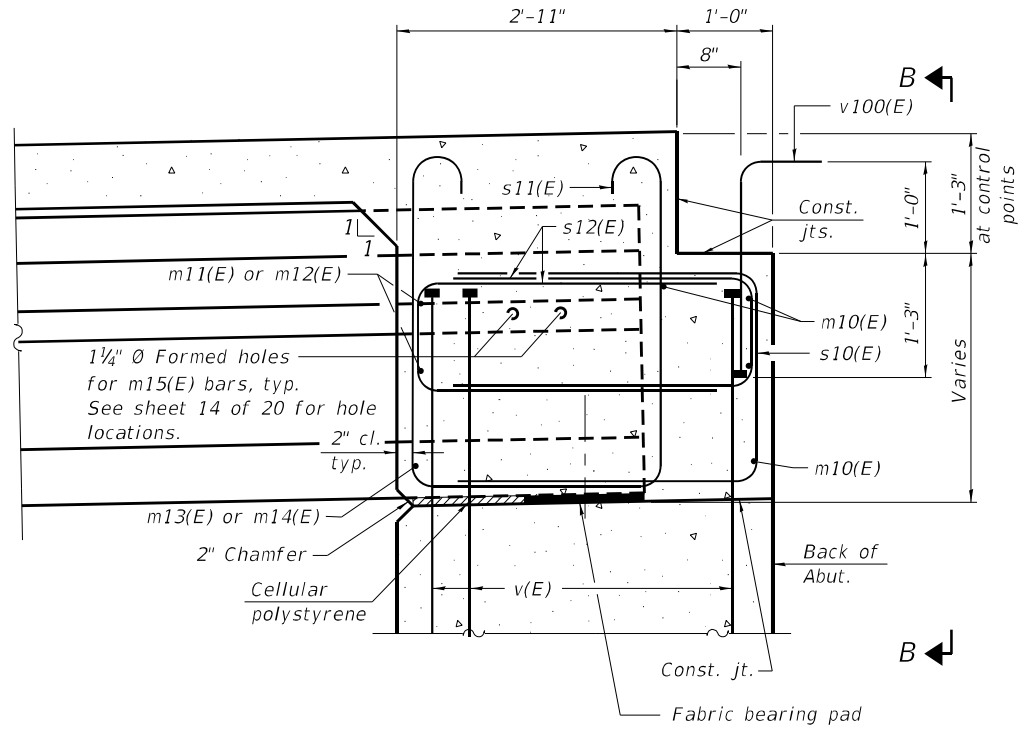
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 085-0504**  
SHEET 8 OF 20 SHEETS

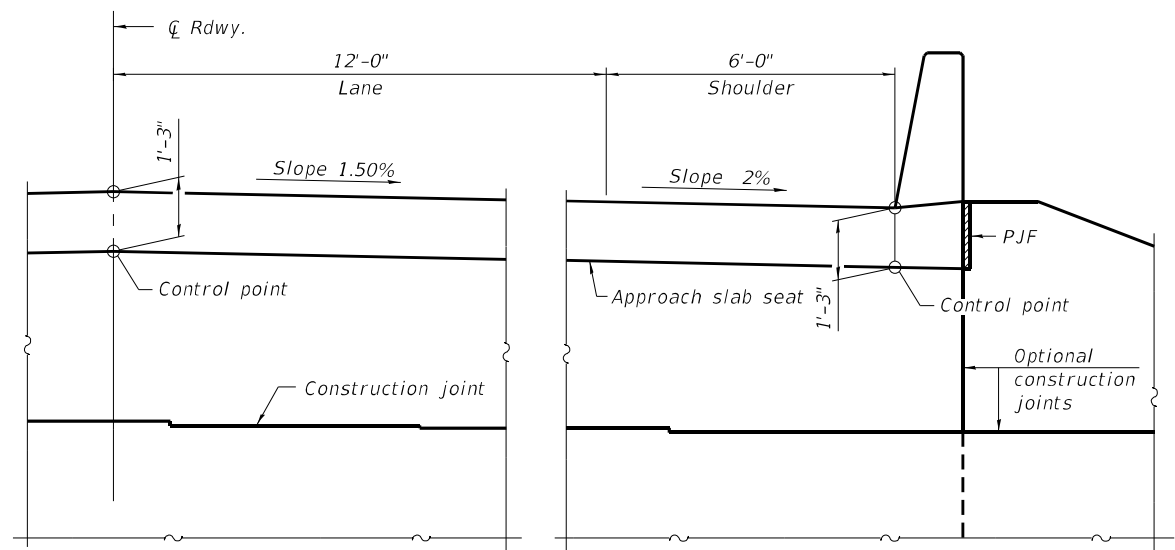
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310	(87) B-2	SCHUYLER	52	28
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				



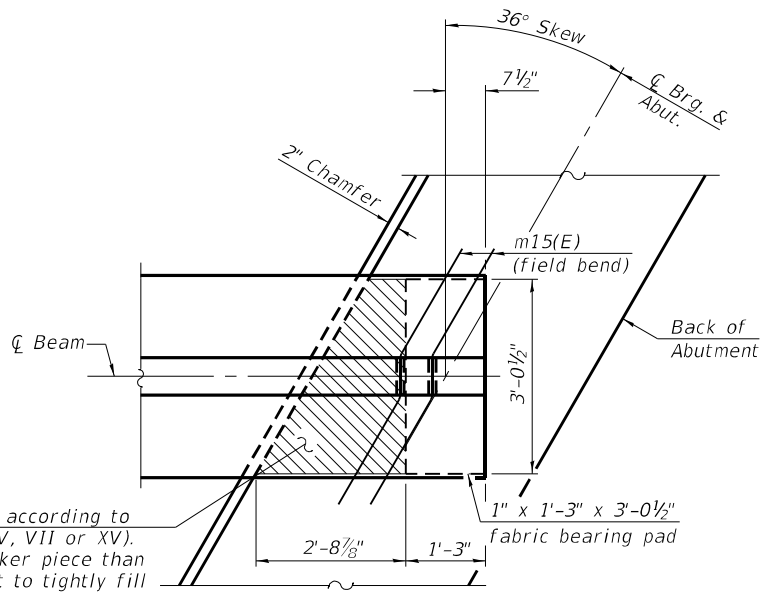
**DIAPHRAGM AT ABUTMENT**  
 (North abutment looking North  
 South abutment similar)



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

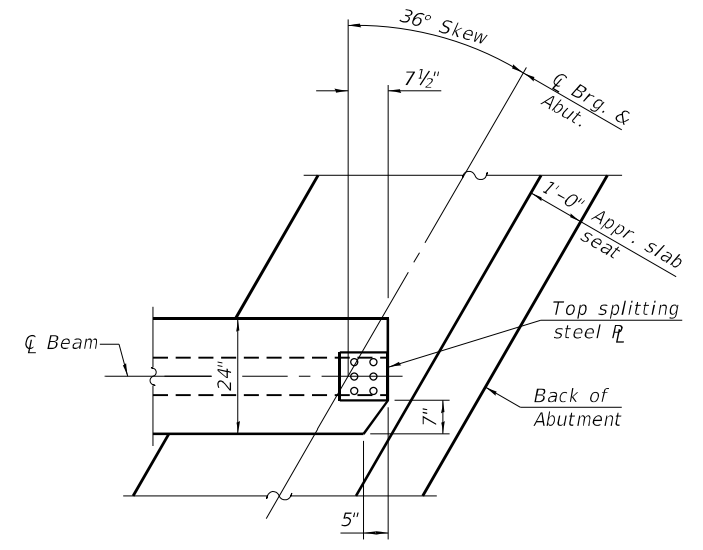


**VIEW B-B**



Cellular polystyrene according to ASTM C 578 (Types V, VII or XV). Provide slightly thicker piece than measured gap height to tightly fill the hatched area shown between abutment cap and bottom of beam.

**PLAN AT ABUTMENT**  
 (Showing bottom flange of PPC IL-beam)



**TOP FLANGE PLAN - CLIPPED**  
 (Showing top flange of PPC IL-beam)

Notes:  
 See sheet 8 of 20 for superstructure details and Bill of Material.  
 See sheet 11 of 20 for P.J.F. details.  
 The s10(E), s11(E) and s12(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.  
 Cost of cellular polystyrene is included with Concrete Superstructure.

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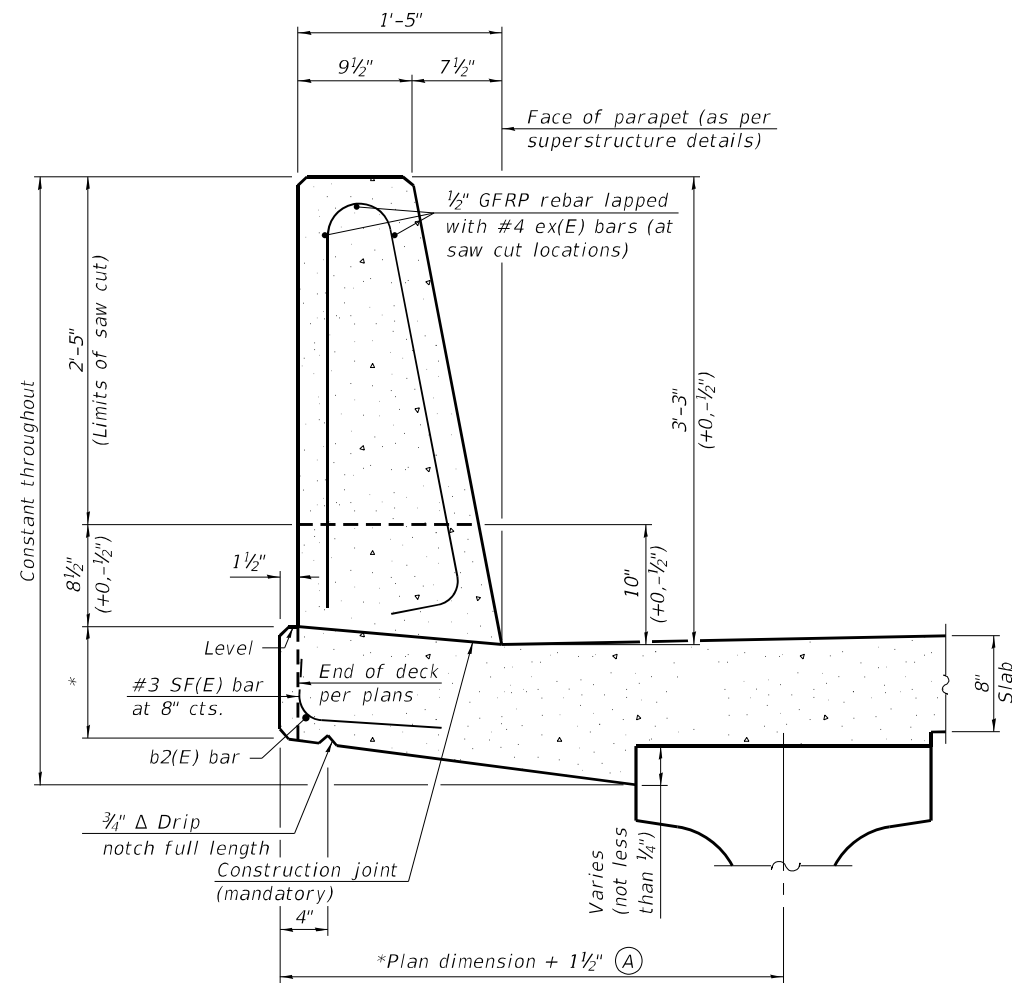
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

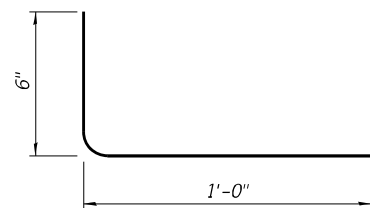
**DIAPHRAGM DETAILS**  
**STRUCTURE NO. 085-0504**

SHEET 9 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	29
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				

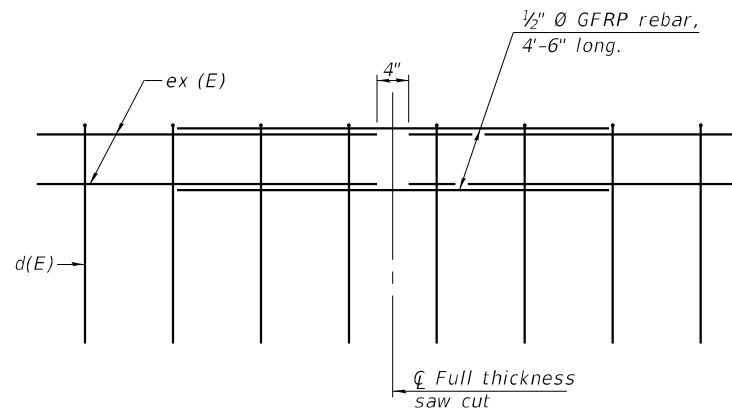


**39" CONSTANT-SLOPE  
PARAPET SECTION**  
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



**#3 (E) BAR**

\*See Superstructure Details.



**GFRP REBAR STIFFENING DETAIL**

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

Notes:  
 All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" parapets.  
 Place full depth aluminum sheets as shown on superstructure details.  
 Replace all cork joint filler locations with a full thickness saw cut.

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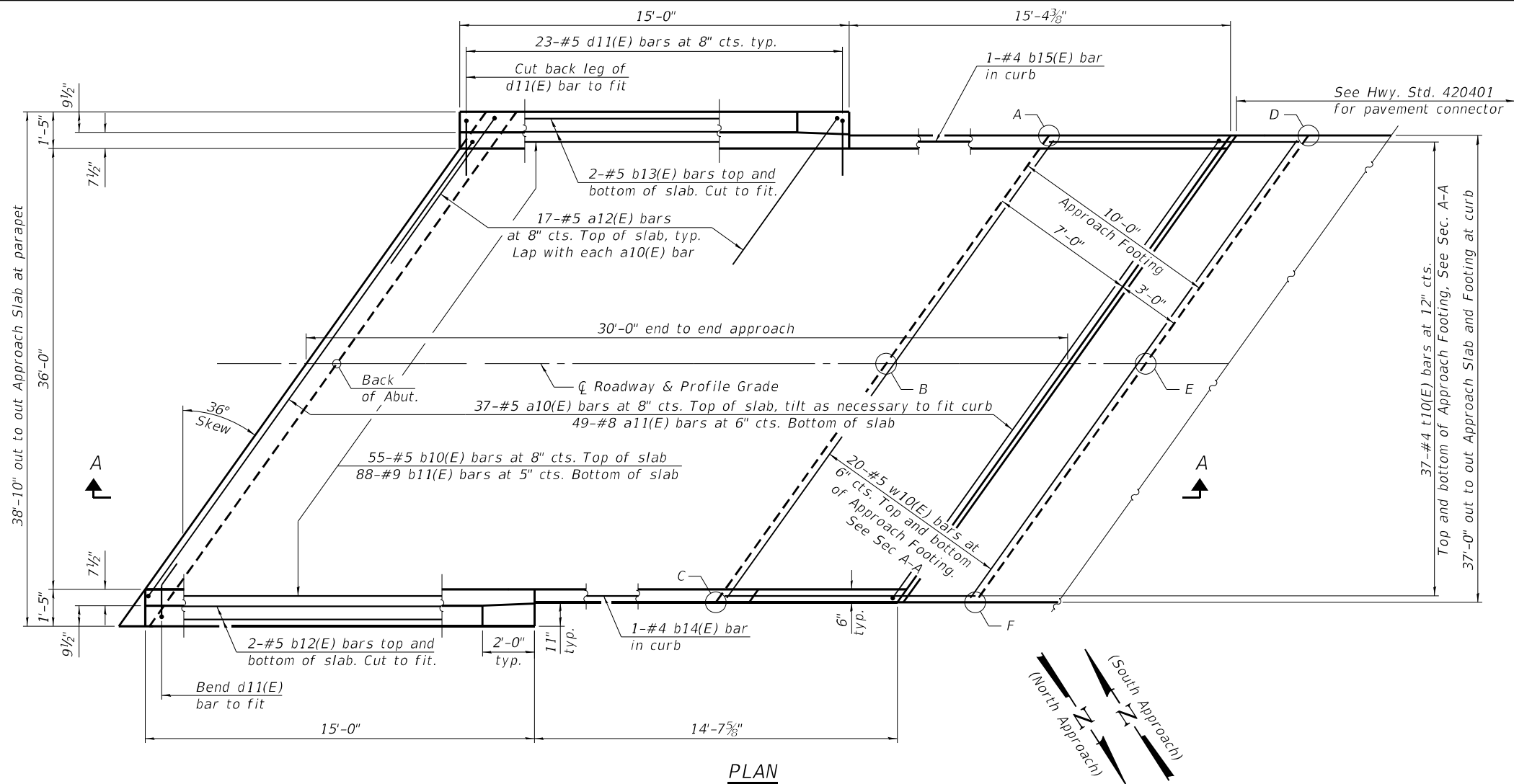
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION  
STRUCTURE NO. 085-0504**

SHEET 10 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	30
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				

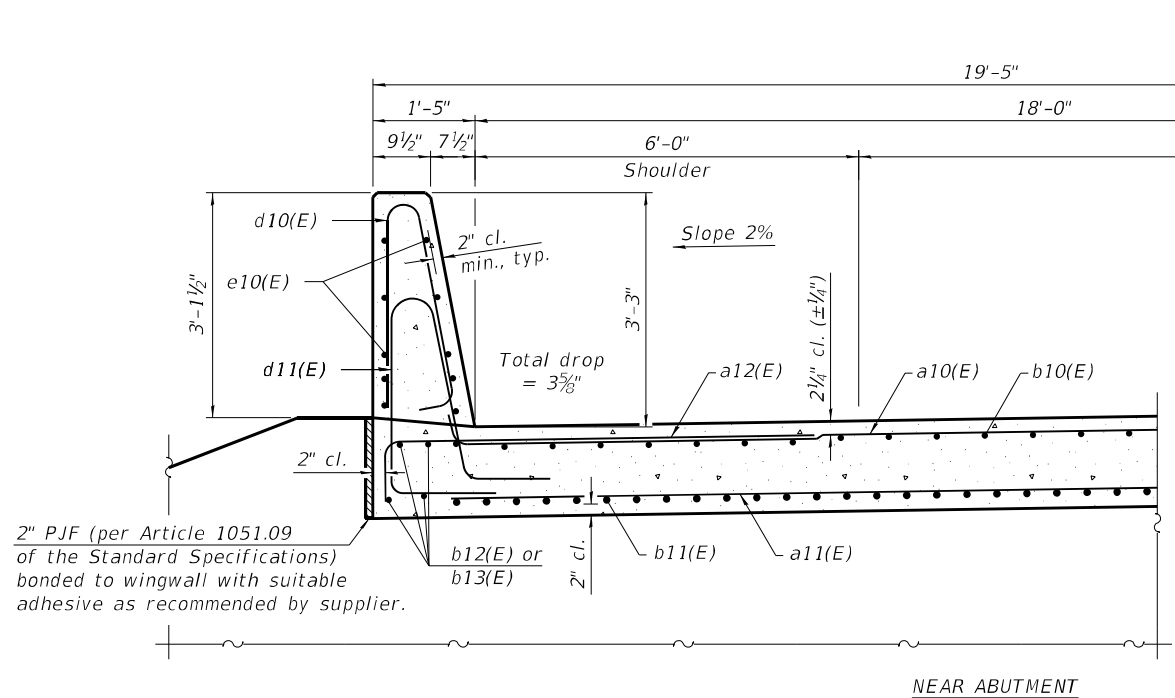


PLAN

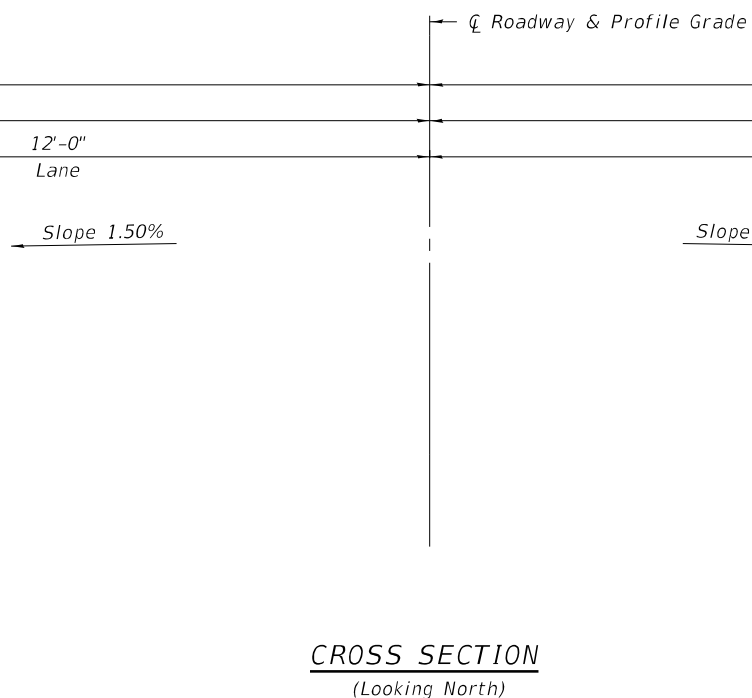
TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	457.22	456.39	460.47	459.64
B	457.81	456.98	460.50	459.67
C	457.77	456.94	459.92	459.09
D	456.97	456.14	460.72	459.89
E	457.55	456.72	460.75	459.92
F	457.52	456.69	460.17	459.34

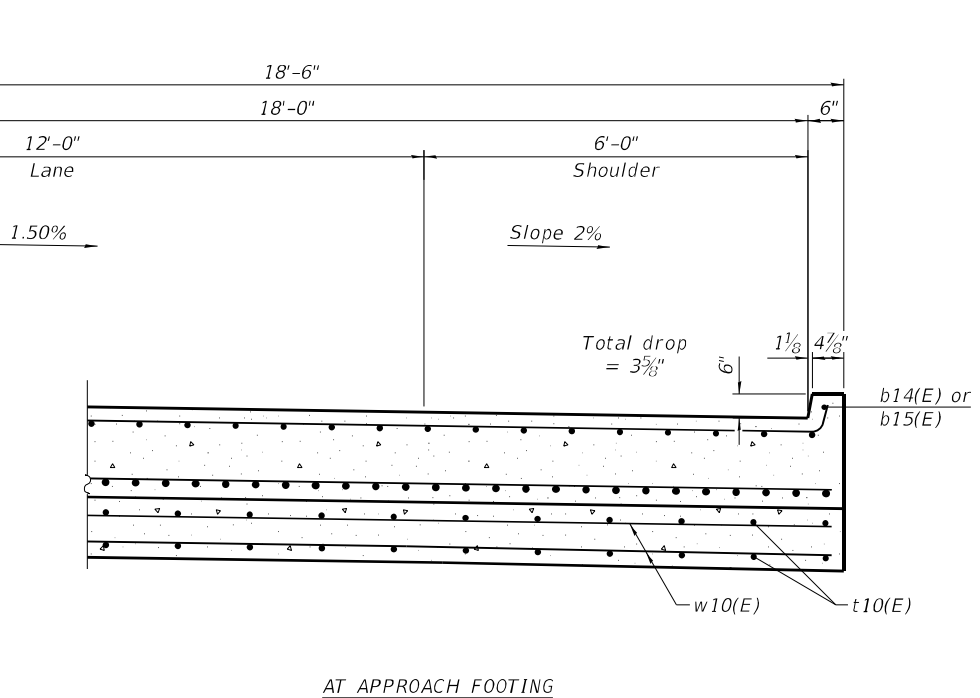
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NEAR ABUTMENT



CROSS SECTION  
(Looking North)



AT APPROACH FOOTING

BAIA-CIP-39CS-L(>30°) 6-15-2019

(Sheet 1 of 2)



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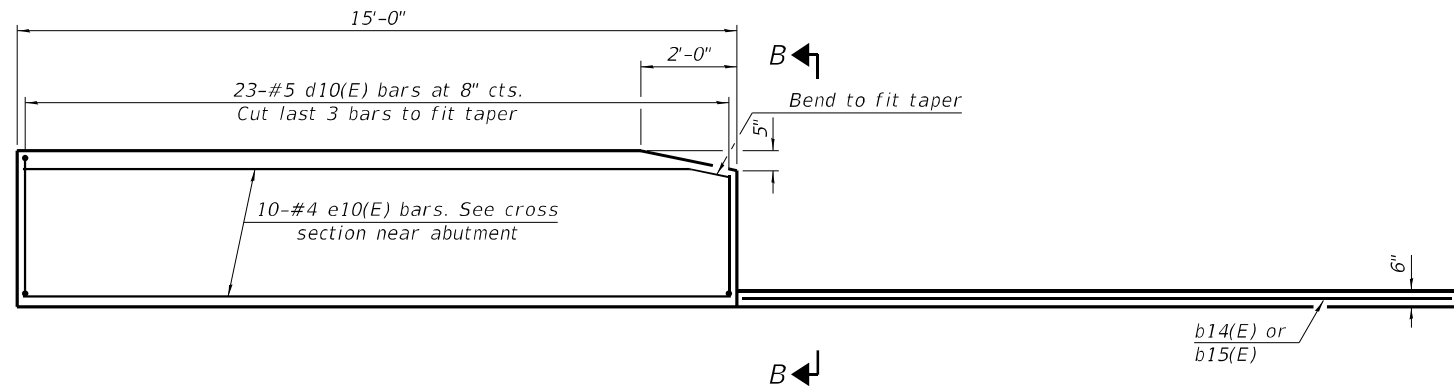
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 085-0504

SHEET 11 OF 20 SHEETS

F.A.P. R.T.E. = 310	SECTION = (87) B-2	COUNTY = SCHUYLER	TOTAL SHEETS = 52	SHEET NO. = 31
CONTRACT NO. 72K08				

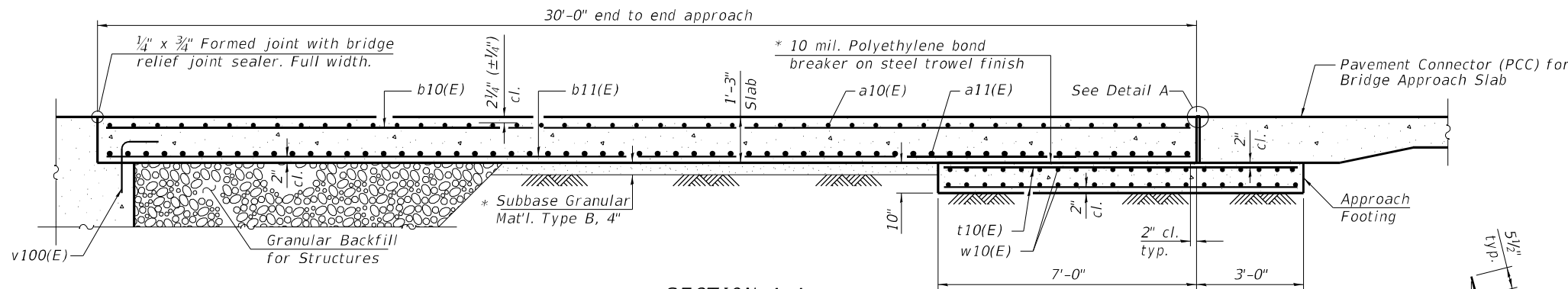
ILLINOIS FED. AID PROJECT



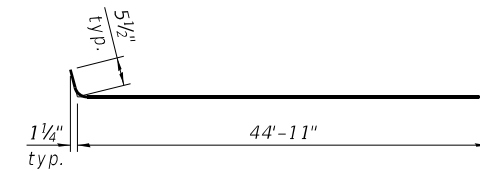
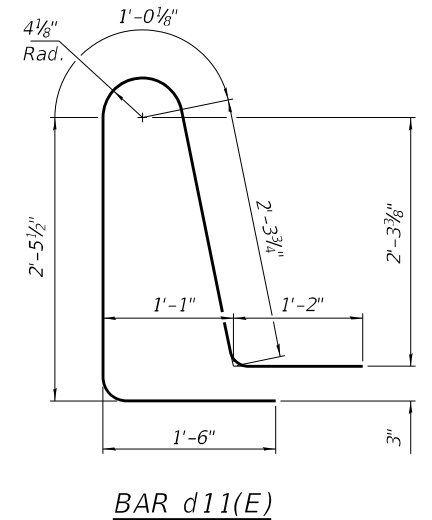
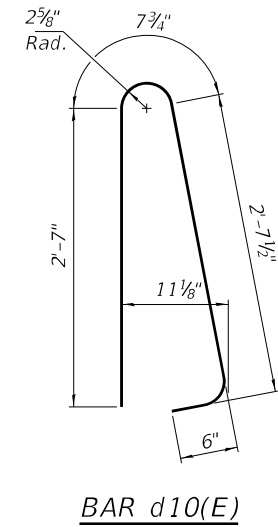
INSIDE ELEVATION OF PARAPET AND CURB

Notes:

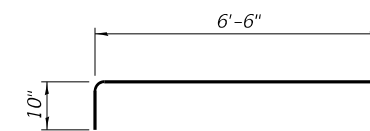
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.  
 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 (Q<sub>max</sub>) = 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 20.



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



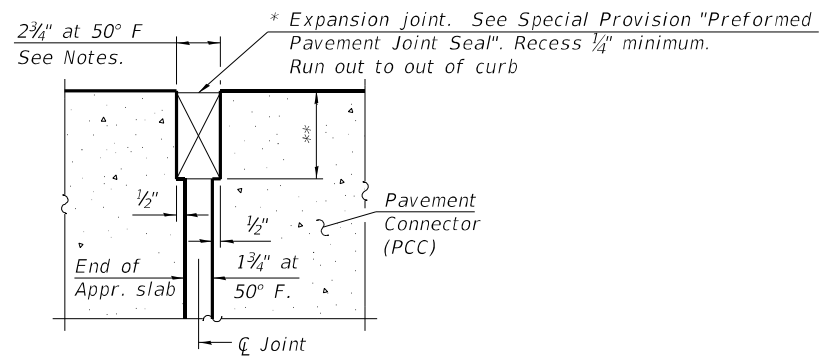
BAR a10(E)



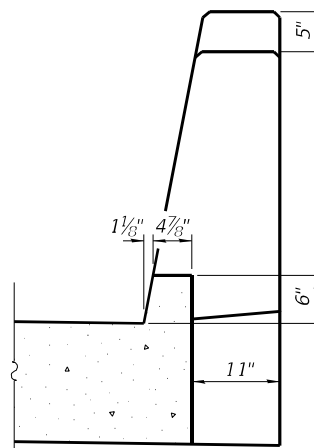
BAR a12(E)

TWO APPROACHES  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	74	#5	45'-10"	
a11(E)	98	#8	45'-2"	
a12(E)	68	#5	7'-4"	
b10(E)	110	#5	29'-8"	
b11(E)	176	#9	29'-8"	
b12(E)	8	#5	15'-6"	
b13(E)	8	#5	14'-6"	
b14(E)	2	#4	14'-5"	
b15(E)	2	#4	14'-10"	
d10(E)	92	#5	6'-5"	
d11(E)	92	#5	8'-6"	
e10(E)	40	#4	14'-8"	
t10(E)	148	#4	11'-11"	
w10(E)	80	#5	45'-3"	
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	106
Concrete Structures			Cu. Yd.	28.2
Bridge Deck Grooving			Sq. Yds.	227
Protective Coat			Sq. Yds.	273
Reinforcement Bars, Epoxy Coated			Pound	44,090



DETAIL A  
(@ Rt. L's)



VIEW B-B

\* Cost included with Concrete Superstructure (Approach Slab).

\*\* Per manufacturer recommendations

BAIA-CIP-39CS-L(>30°) 6-15-2019

(Sheet 2 of 2)

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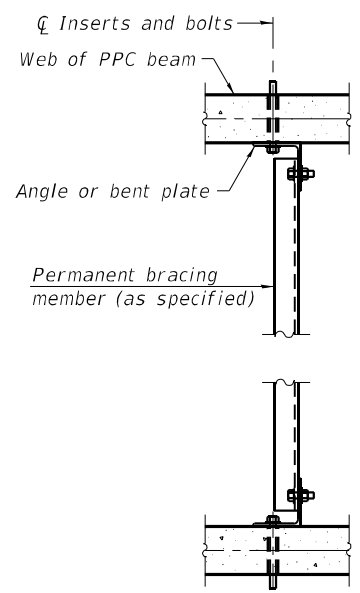
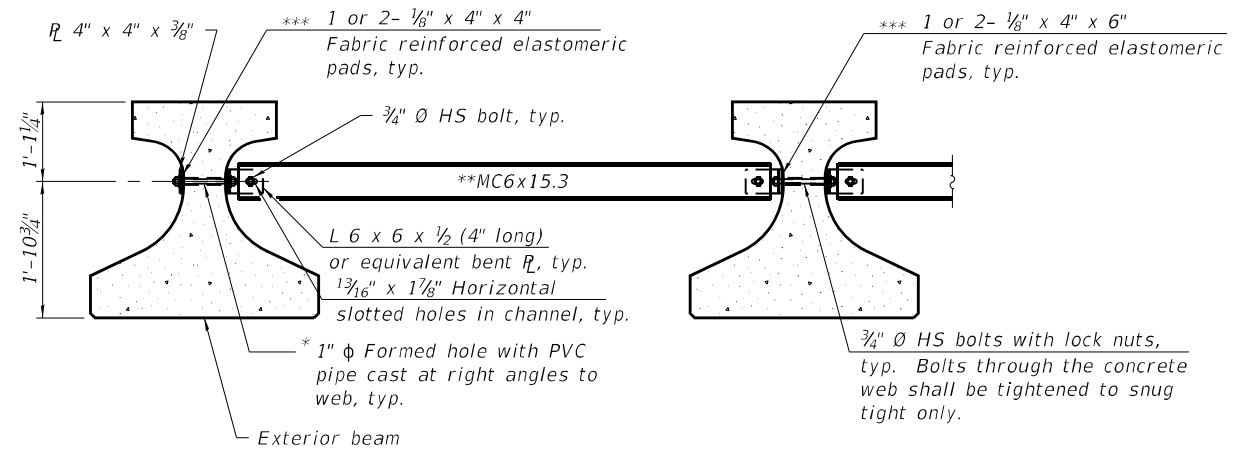
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	CHECKED - SPN	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 085-0504

SHEET 12 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	32
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				



PLAN

INTERIOR BEAM MOMENT TABLE		
	0.5 Span	0.5 Span
	Exterior	Interior
I	(in <sup>4</sup> ) 100433	100433
I'	(in <sup>4</sup> ) 273838	275243
Sb	(in <sup>3</sup> ) 6832	6832
Sb'	(in <sup>3</sup> ) 11410	11435
St	(in <sup>3</sup> ) 4715	4715
St'	(in <sup>3</sup> ) 22820	23072
DC1	(k/ft.) 1.439	1.447
MDC1	(k) 1346	1354
DC2	(k/ft.) 0.175	0.175
MDC2	(k) 164	164
DW	(k/ft.) 0.300	0.300
MDW	(k) 281	281
LLDF	(k) 0.523	0.544
M <sub>L</sub> + IM	(k) 1206	1254

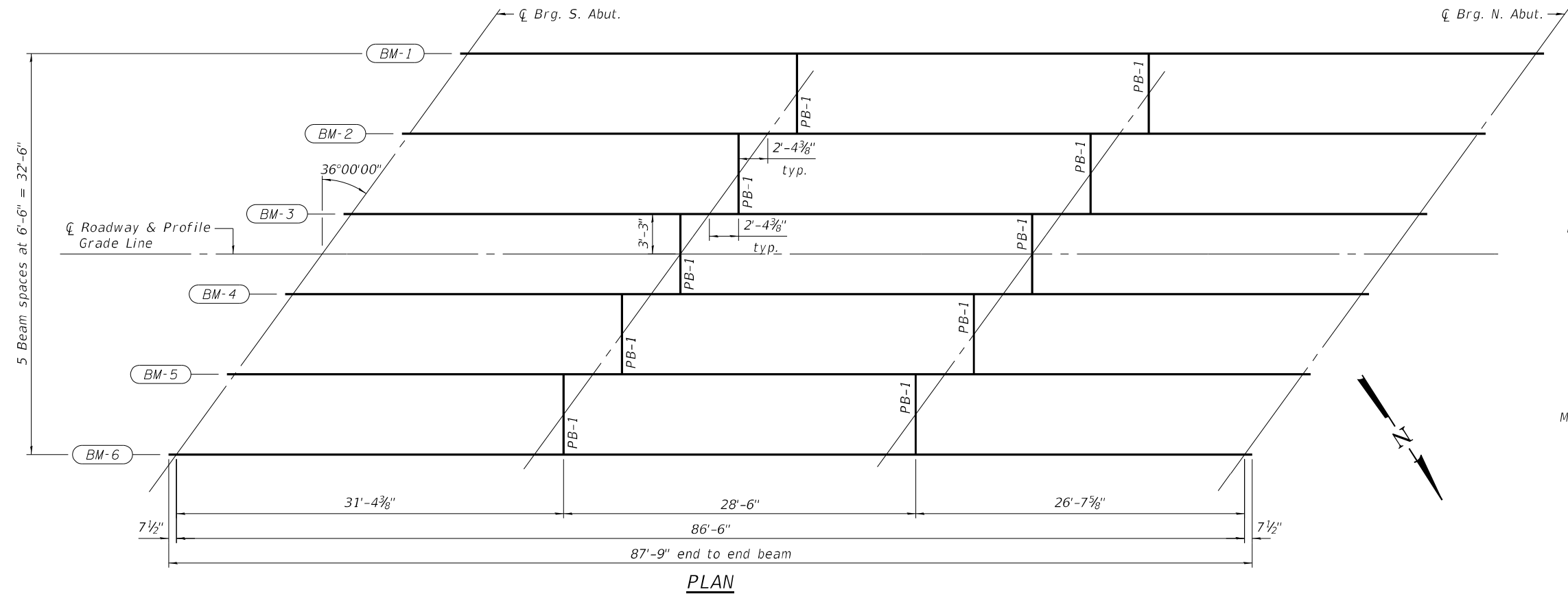
INTERIOR BEAM REACTION TABLE		
	Abut.	Abut.
	Exterior	Interior
LLDF	0.618	0.798
OCF	1.13	1.13
RDC1	(k) 62.3	62.6
RDC2	(k) 7.6	7.6
RDW	(k) 13.0	13.0
R <sub>L</sub> + IM	(k) 70.0	90.2
RTotal	(k) 151.8	173.4

Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.  
 Two hardened washers are required for each set of oversized holes.  
 All holes shall be 1 5/16" Ø unless otherwise noted.  
 5/16" x 3" x 3" plate washers are required over all slotted holes.  
 All bolts shall be galvanized to AASHTO M232.  
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.  
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.

- \* Fabricator shall locate to miss strands within permissible tolerances.
- \*\* Alternate MC6x18 channels are permitted to facilitate material acquisition.
- \*\*\* Place pads as necessary to provide a flat mounting surface between the steel and concrete.

**PERMANENT BRACING (PB-1) DETAILS FOR  
 IL36 BEAMS  
 (10 Required)**



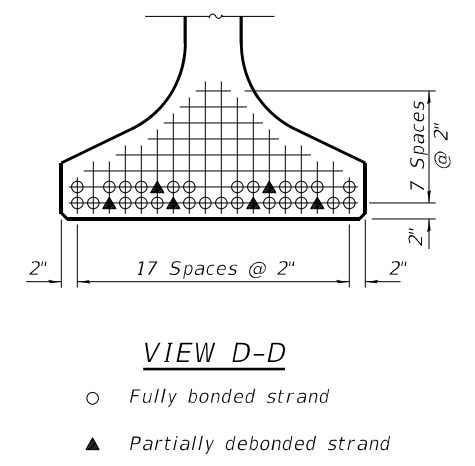
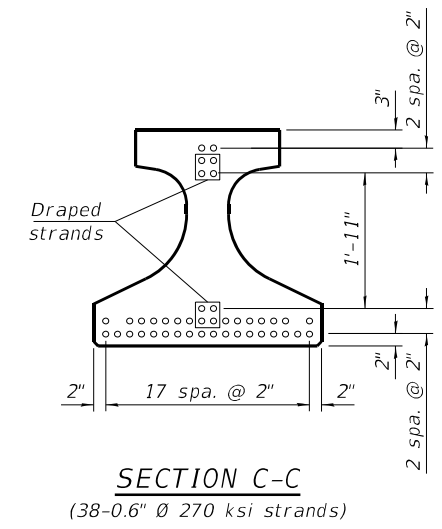
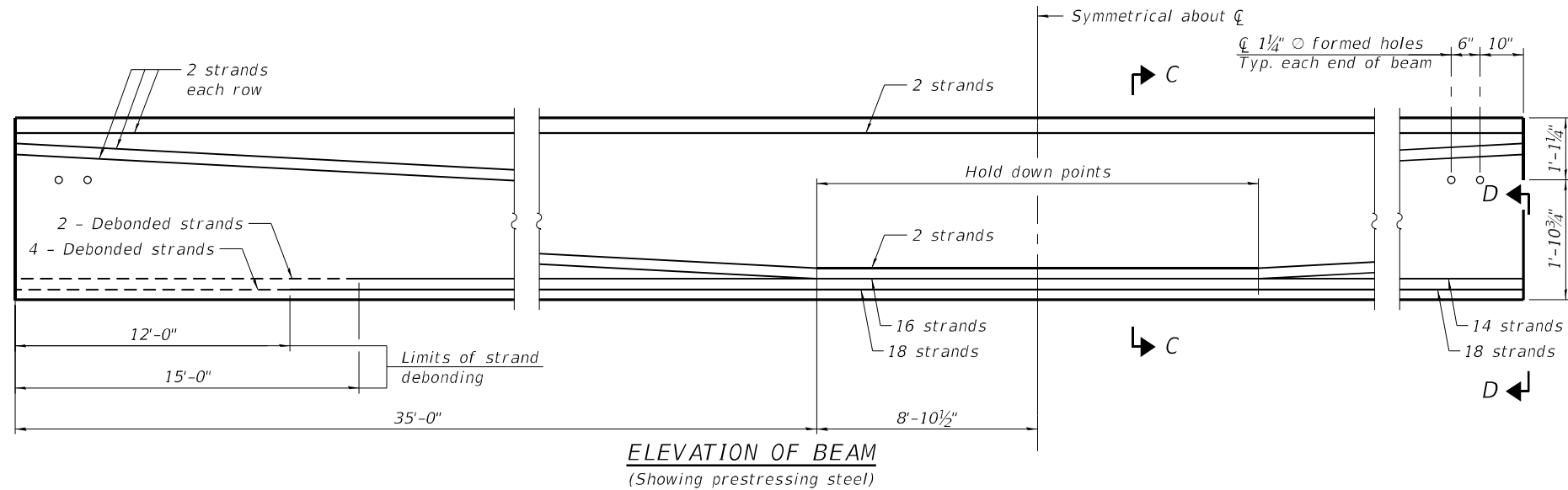
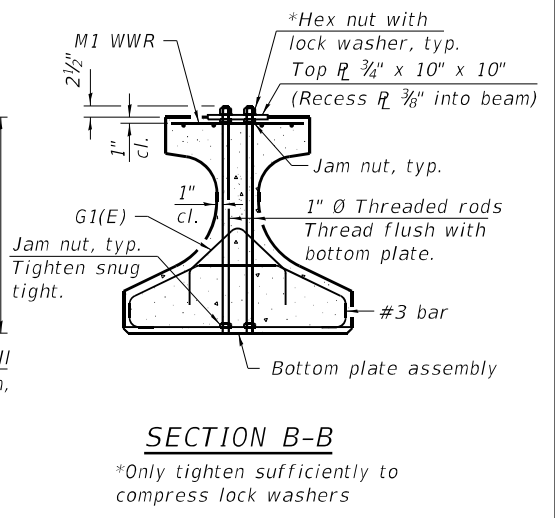
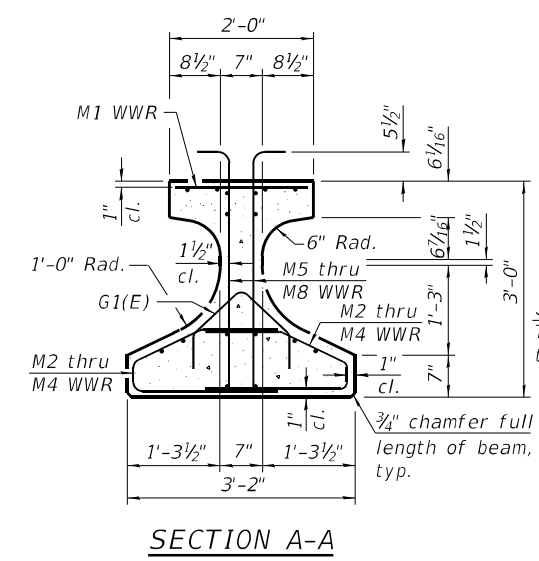
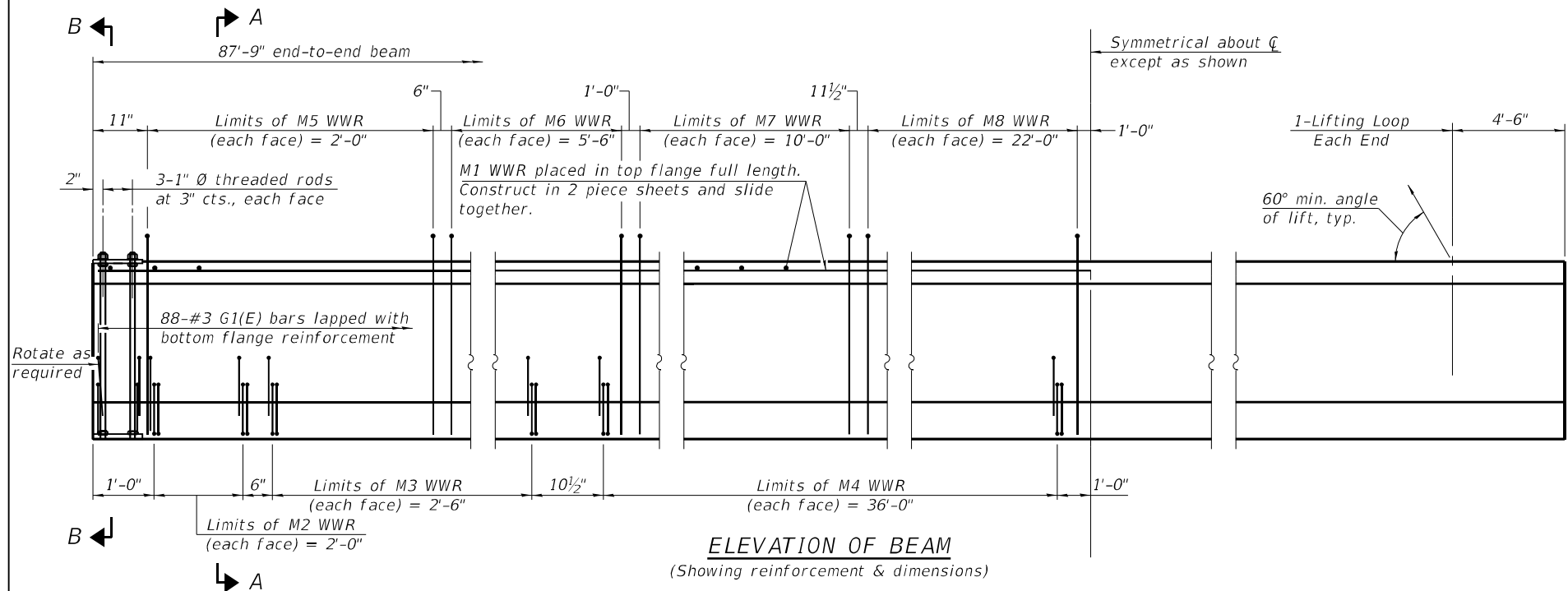
- I: Non-composite moment of inertia of beam section (in<sup>4</sup>).
- I': Composite moment of inertia of beam section (in<sup>4</sup>).
- Sb: Non-composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).
- Sb': Composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).
- St: Non-composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).
- St': Composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).
- 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<sub>L</sub> + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

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<b>KUHN &amp; TRELLO</b> CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62702 Phone: 217-618-0244 Professional Design Firm No. 284-006516	USER NAME = PLOT SCALE = PLOT DATE =	DESIGNED - MJT CHECKED - SPN DRAWN - MMY CHECKED - SPN	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FRAMING PLAN</b> <b>STRUCTURE NO. 085-0504</b>	F.A.P. R.T.E. = 310 SECTION = (87) B-2 COUNTY = SCHUYLER TOTAL SHEETS = 52 SHEET NO. = 33 CONTRACT NO. 72K08	SHEET 13 OF 20 SHEETS ILLINOIS FED. AID PROJECT
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Note:  
 See sheet 15 of 20 for additional details and Bill of Material.

IL36-2438

2-25-2019



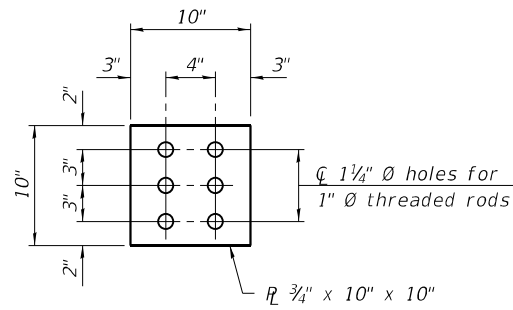
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

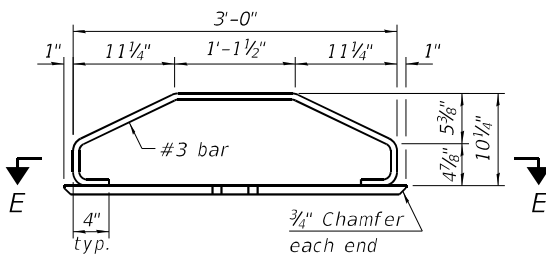
IL36N BEAM  
 STRUCTURE NO. 085-0504

SHEET 14 OF 20 SHEETS

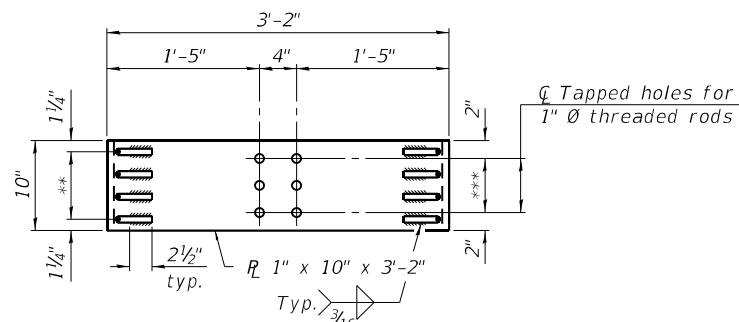
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	34
ILLINOIS			FED. AID PROJECT	



PLAN - TOP PLATE



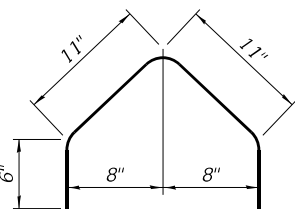
ELEVATION - BOTTOM PLATE ASSEMBLY



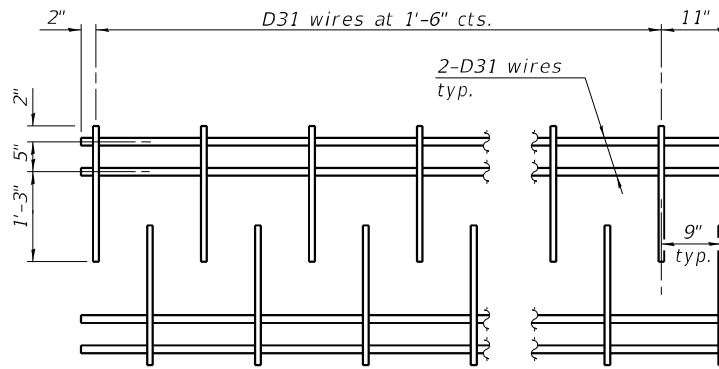
SECTION E-E

\*\* 3 Spaces at 2 1/2" = 7 1/2"

\*\*\* 2 Spaces at 3" = 6"

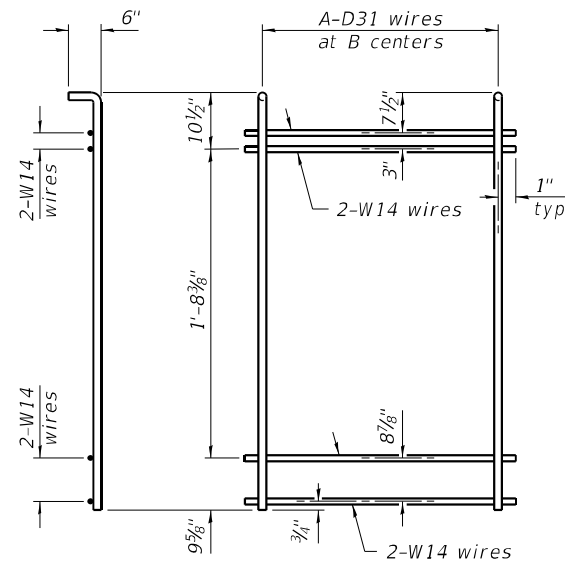


BAR G1(E)



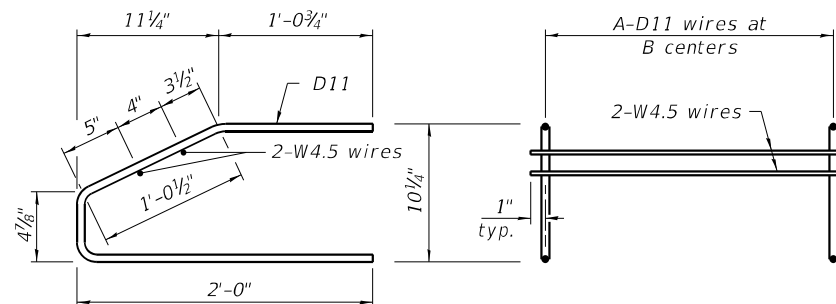
M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").



M5 THRU M8 WWR DETAIL

(See Table of Dimensions)



M2 THRU M4 WWR DETAIL

(See Table of Dimensions)

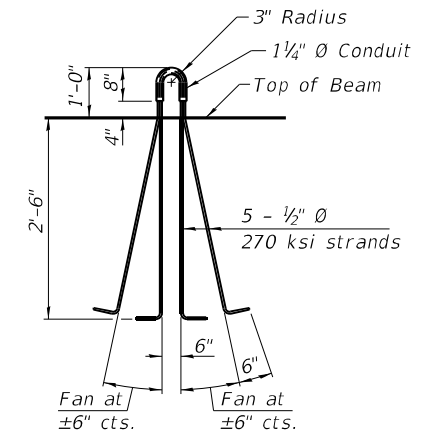
TABLE OF DIMENSIONS

(WWR tables are based on Grade 60)

WWR	A	B
M2	9	3"
M3	6	6"
M4	25	1'-6"
M5	9	3"
M6	12	6"
M7	11	1'-0"
M8	12	2'-0"

NOTES

Inserts for 3/4" diameter threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be 1/2" and the nominal cross sectional area shall be 0.153 sq. in. The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 6500 psi. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50. The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232. Threaded rods shall be ASTM F 1554 Grade 55. Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A1060, Table 3 galvanized coating.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36N	Ft.	526.5

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IL36-2438D

2-25-2019



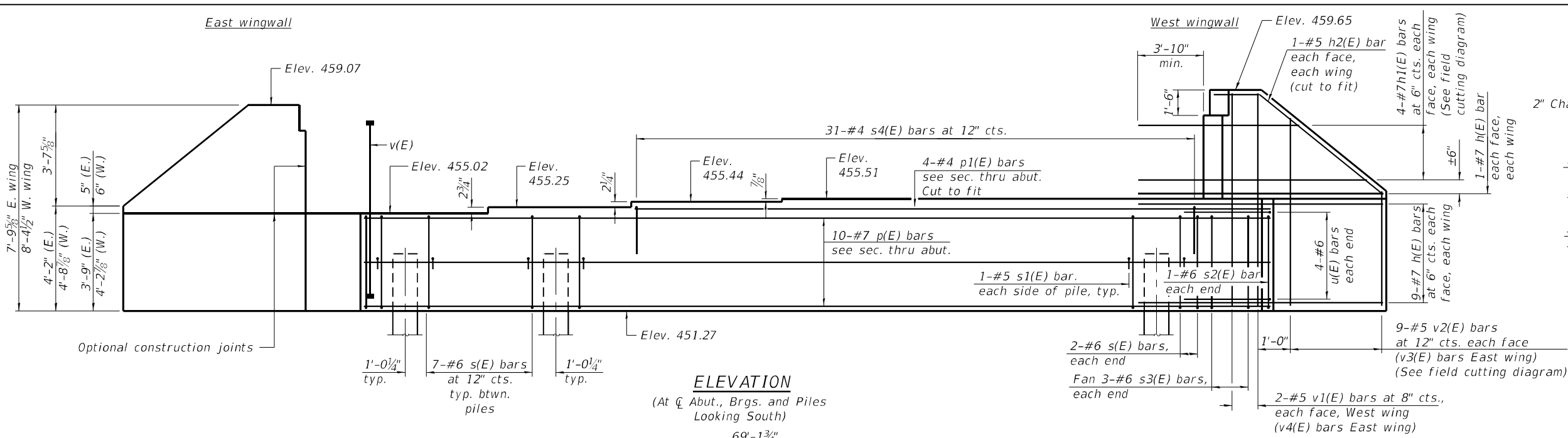
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

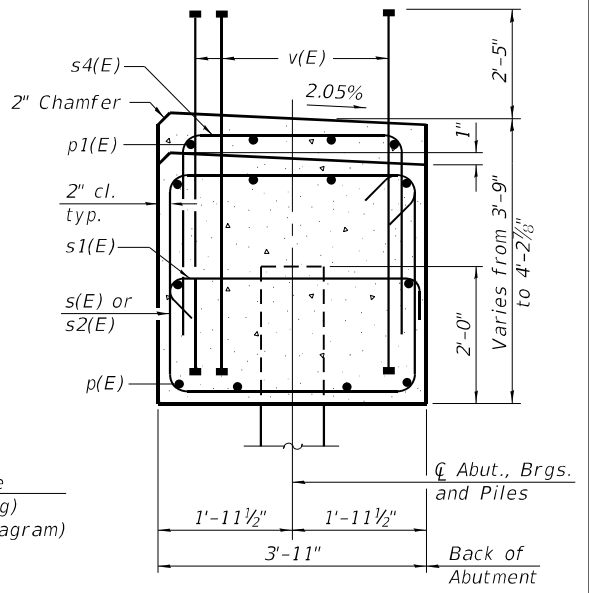
IL36N BEAM DETAILS  
STRUCTURE NO. 085-0504

SHEET 15 OF 20 SHEETS

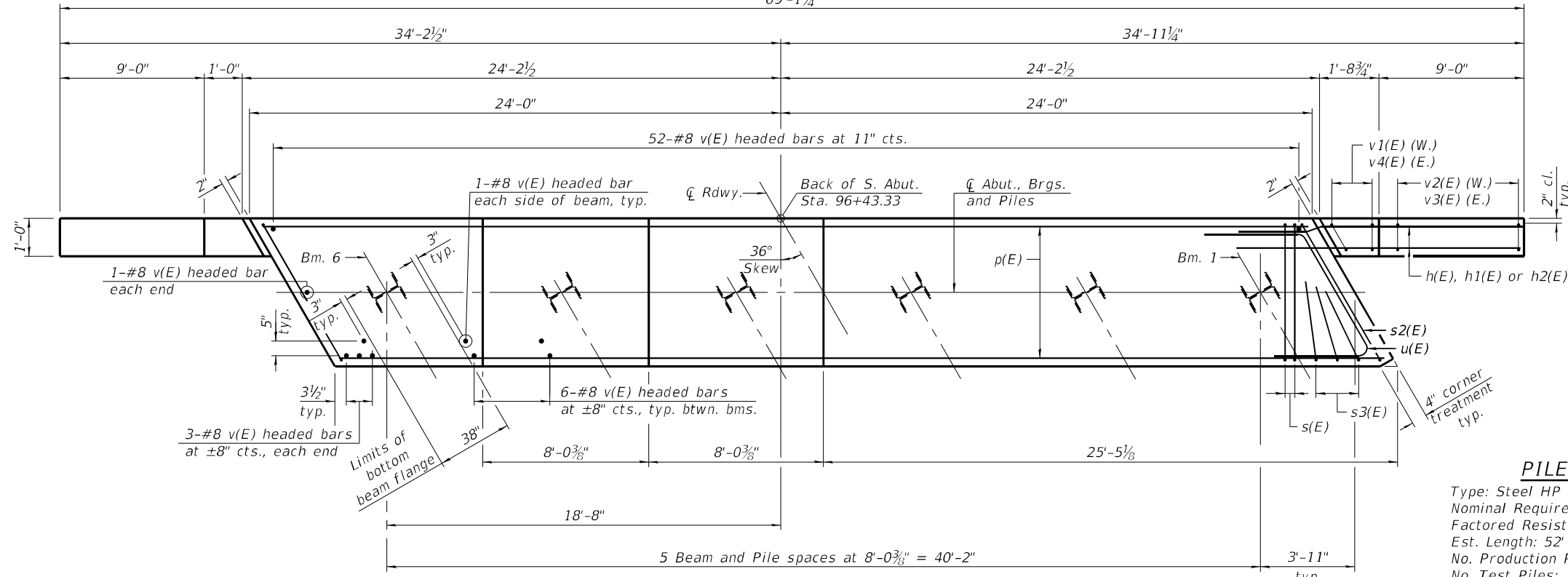
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	35
			CONTRACT NO. 72K08	
			ILLINOIS FED. AID PROJECT	



**ELEVATION**  
(At  $\bar{C}$  Abut., Brgs. and Piles Looking South)  
69'-1 $\frac{3}{4}$ "



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



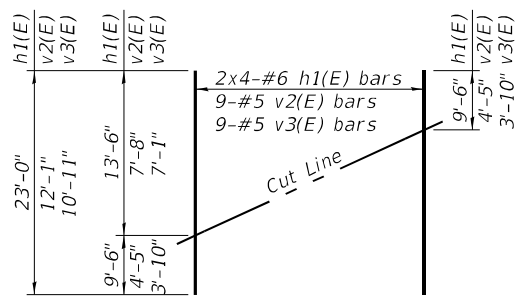
**PLAN**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	40	#7	14'-7"	—
h1(E)	8	#7	23'-0"	—
h2(E)	4	#5	11'-0"	—
p(E)	10	#7	47'-8"	—
p1(E)	4	#4	33'-1"	—
s(E)	39	#6	15'-4"	□
s1(E)	12	#5	4'-7"	□
s2(E)	2	#6	17'-0"	□
s3(E)	6	#6	7'-11"	□
s4(E)	31	#4	7'-11"	□
u(E)	8	#6	12'-10"	U
v(E)	102	#8	6'-5"	
v1(E)	4	#5	8'-0"	
v2(E)	9	#5	12'-1"	
v3(E)	9	#5	10'-11"	
v4(E)	4	#5	7'-5"	
Structure Excavation	Cu. Yd.		11	
Concrete Structures	Cu. Yd.		33.5	
Reinforcement Bars, Epoxy Coated	Pound		6100	
Furnishing Steel Piles, HP 12 x 63	Foot		260	
Driving Piles	Foot		260	
Test Pile, Steel HP 12 x 63	Each		1	

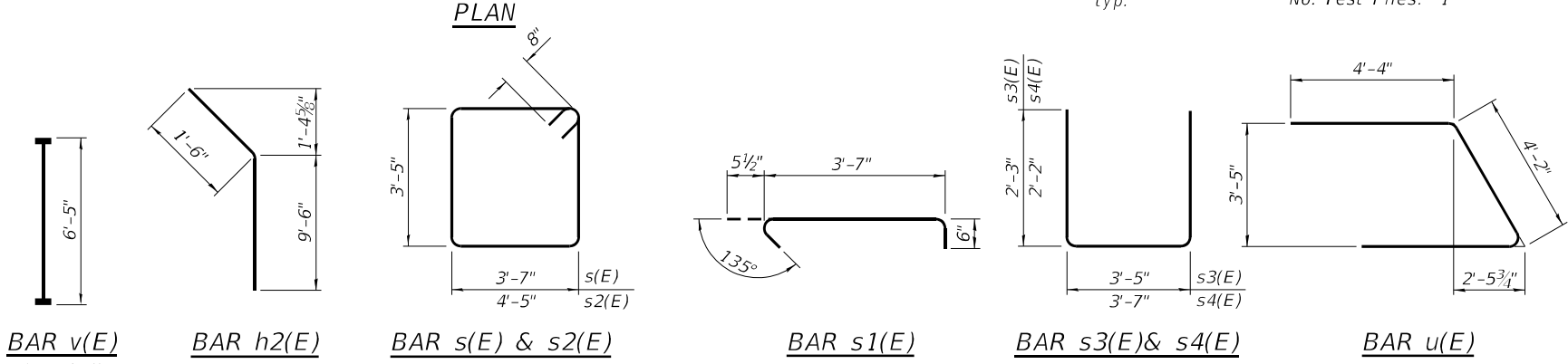
**PILE DATA**

Type: Steel HP 12 x 63  
Nominal Required Bearing: 497  
Factored Resistance Available: 273  
Est. Length: 52'  
No. Production Piles: 5  
No. Test Piles: 1



**FIELD CUTTING DIAGRAM**

Order h1(E), v2(E) & v3(E) full length. Cut as shown and use remainder of bars in opposite face.



**Notes:**  
Pour steps monolithically with cap.  
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.  
For details of piles see sheet 18 of 20.

MODEL: Default  
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6-15-2019



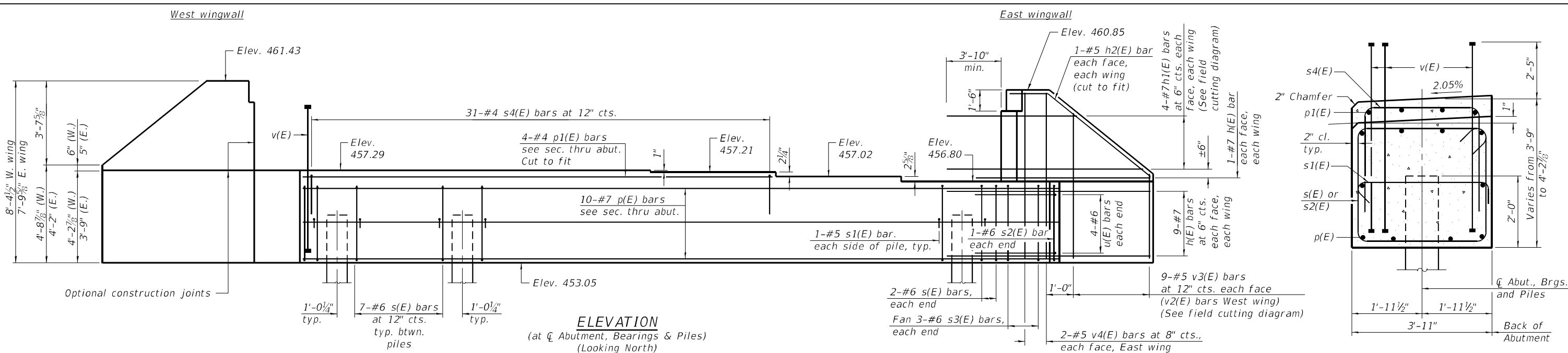
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SPN	SPN	-
MMY	MMY	-
SPN	SPN	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

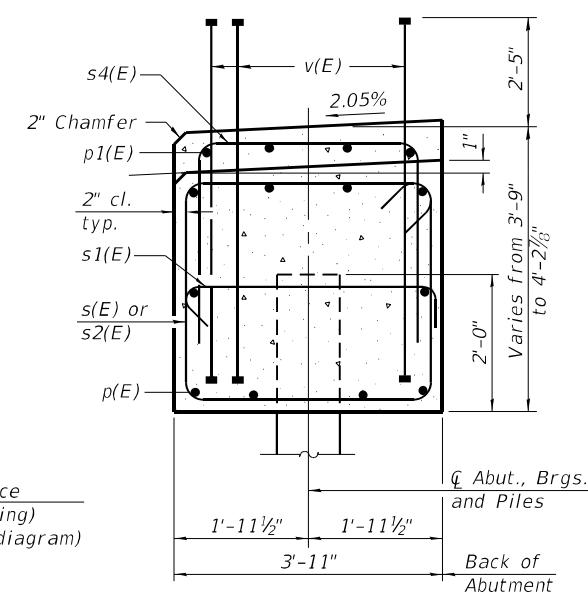
**SOUTH ABUTMENT**  
**STRUCTURE NO. 085-0504**

SHEET 16 OF 20 SHEETS

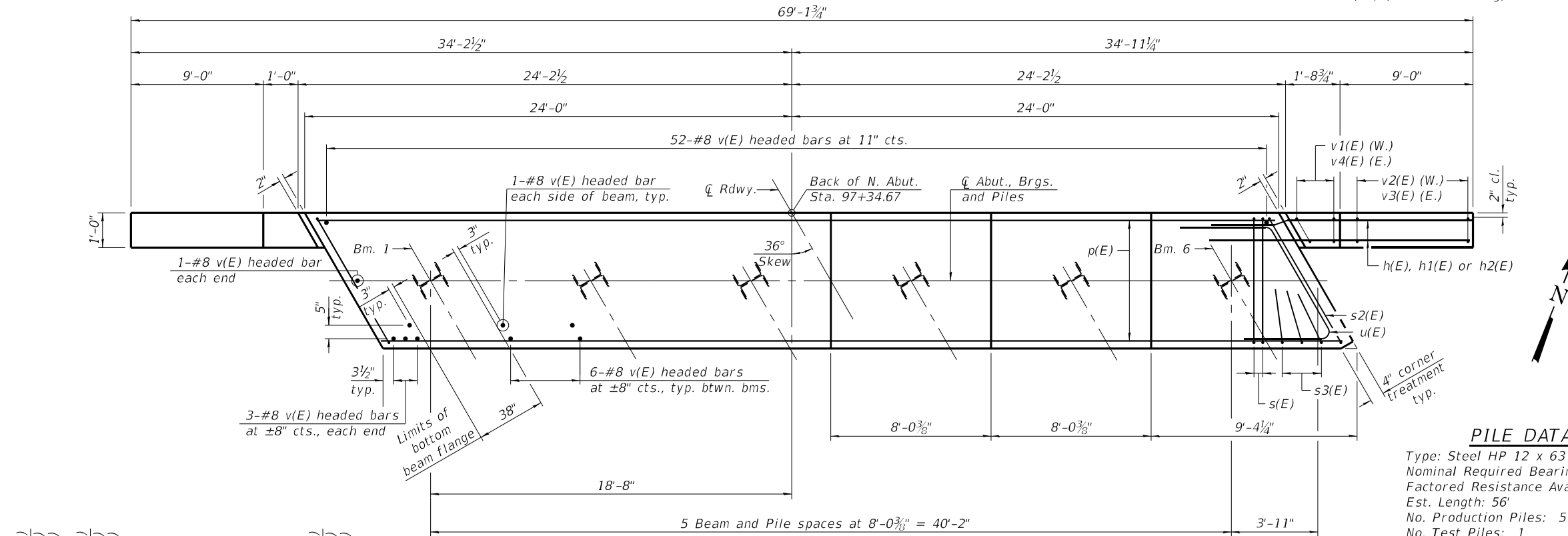
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	36
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				



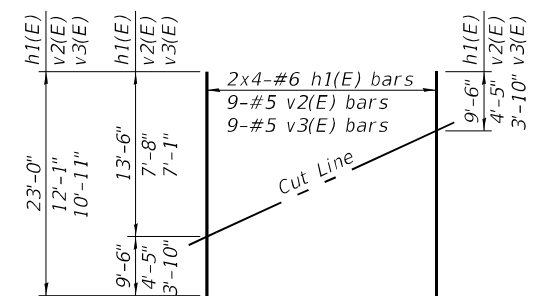
**ELEVATION**  
(at  $\bar{C}$  Abutment, Bearings & Piles)  
(Looking North)



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

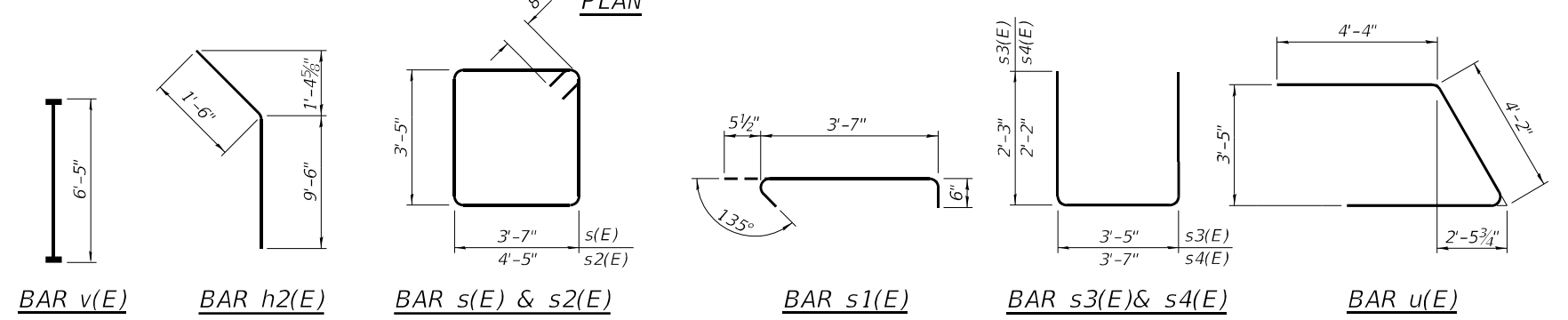


**PLAN**



**FIELD CUTTING DIAGRAM**

Order h1(E), v2(E) & v3(E) full length. Cut as shown and use remainder of bars in opposite face.



**PILE DATA**  
Type: Steel HP 12 x 63  
Nominal Required Bearing: 497  
Factored Resistance Available: 273  
Est. Length: 56'  
No. Production Piles: 5  
No. Test Piles: 1

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	40	#7	14'-7"	—
h1(E)	8	#7	23'-0"	—
h2(E)	4	#5	11'-0"	—
p(E)	10	#7	47'-8"	—
p1(E)	4	#4	33'-1"	—
s(E)	39	#6	15'-4"	—
s1(E)	12	#5	4'-7"	—
s2(E)	2	#6	17'-0"	—
s3(E)	6	#6	7'-11"	—
s4(E)	31	#4	7'-11"	—
u(E)	8	#6	12'-10"	—
v(E)	102	#8	6'-5"	—
v1(E)	4	#5	8'-0"	—
v2(E)	9	#5	12'-1"	—
v3(E)	9	#5	10'-11"	—
v4(E)	4	#5	7'-5"	—
Structure Excavation			Cu. Yd.	83
Concrete Structures			Cu. Yd.	33.5
Reinforcement Bars, Epoxy Coated			Pound	6100
Furnishing Steel Piles, HP 12 x 63			Foot	280
Driving Piles			Foot	280
Test Pile, Steel HP 12 x 63			Each	1

**Notes:**  
Pour steps monolithically with cap.  
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.  
For details of piles see sheet 18 of 20.

MODEL: Default  
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**KUHN & TRELLO**  
CONSULTING ENGINEERS  
A Limited Liability Company  
100 N. 7th Street, 3rd Floor  
Springfield, IL 62702  
Phone: 217-418-0244  
Professional Design Firm No. 284-006516

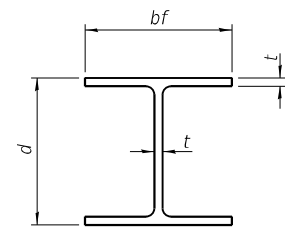
DESIGNED - MJT	REVISIONS -
CHECKED - SPN	REVISIONS -
DRAWN - MMY	REVISIONS -
CHECKED - SPN	REVISIONS -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT**  
**STRUCTURE NO. 085-0504**

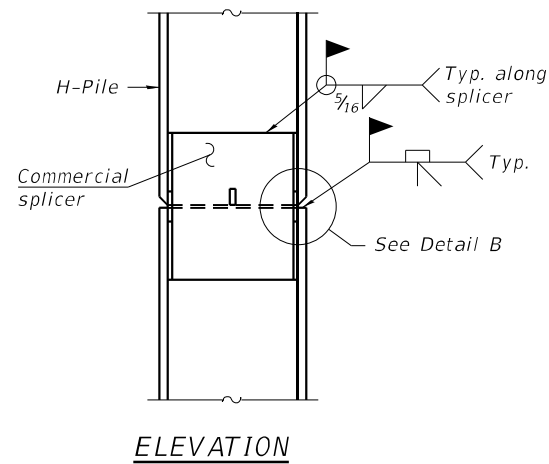
SHEET 17 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	37
CONTRACT NO. 72K08				
ILLINOIS FED. AID PROJECT				

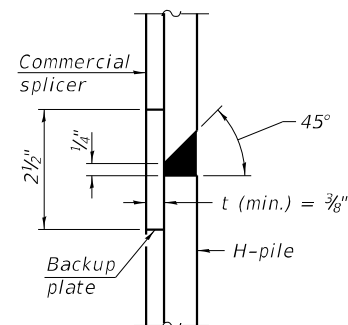


**STEEL PILE TABLE**

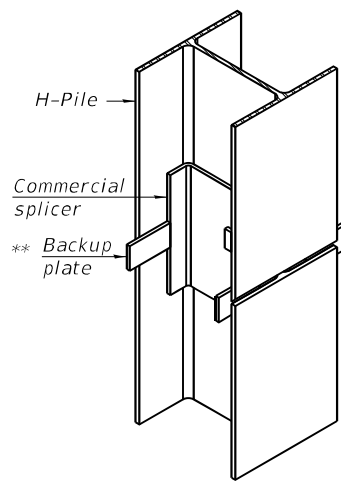
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 3/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
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"



**ELEVATION**

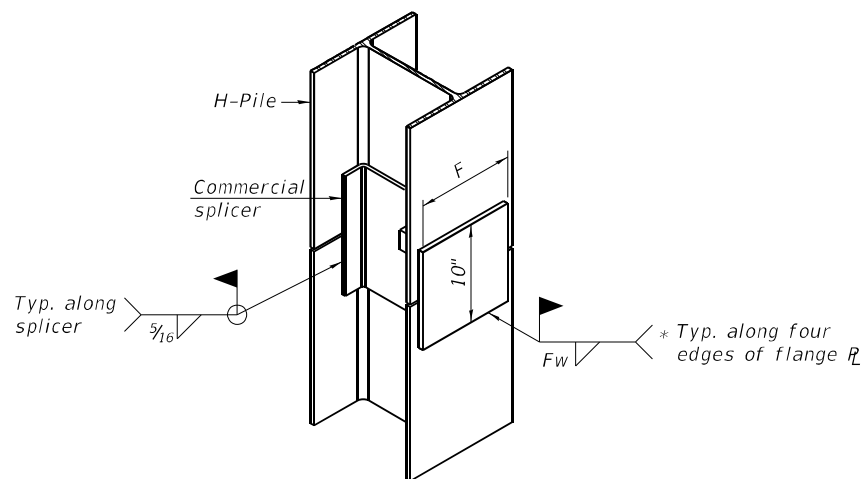


**DETAIL "B"**



**ISOMETRIC VIEW**

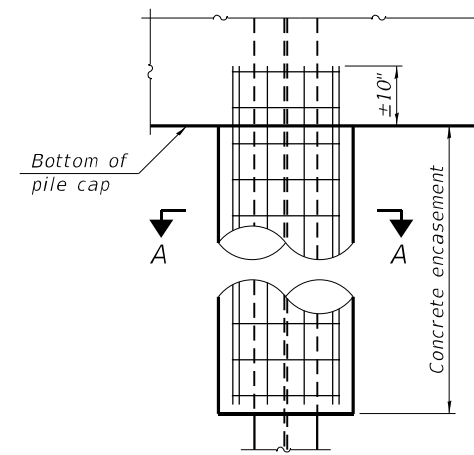
**WELDED COMMERCIAL SPLICE**



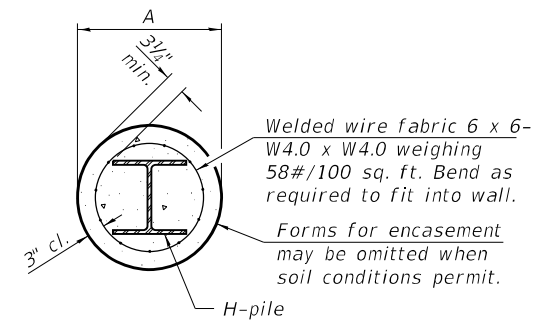
**ISOMETRIC VIEW**

**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.).

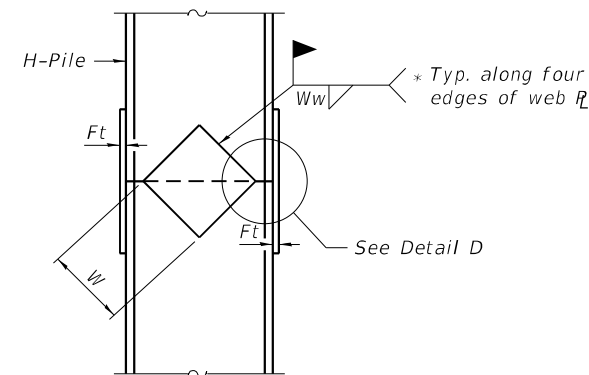


**ELEVATION**

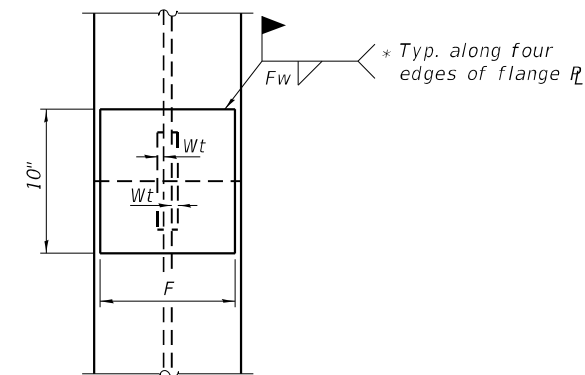


**SECTION A-A**

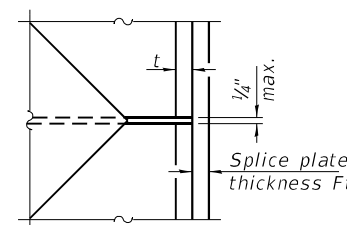
**INDIVIDUAL PILE CONCRETE ENCASUREMENT**  
(when specified)



**ELEVATION**



**END VIEW**

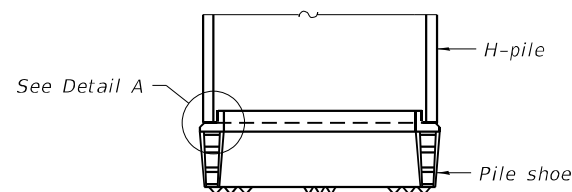


**DETAIL D**

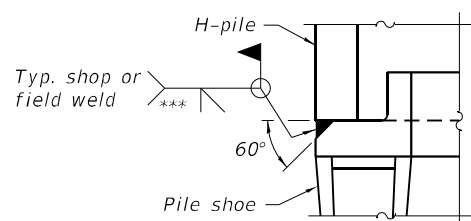
**WELDED PLATE FIELD SPLICE**

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"

**ELEVATION**



**ELEVATION**



**DETAIL A**

**SHOE ATTACHMENT**

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

MODEL: Default; FILE NAME: J:\180404\04 IDOT D6 - PTB 187-011 - WO4 - US 67 over Bluff Ditch\CADD\Drawings\0850504-72K08-018-HP-Pile.dgn

F-HP 1-1-2020



USER NAME =  
DESIGNED - MJT  
CHECKED -  
PLOT SCALE =  
DRAWN - MMY  
CHECKED -  
PLOT DATE =

REVISD -  
REVISD -  
REVISD -  
REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS  
STRUCTURE NO. 085-0504

SHEET 18 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87) B-2	SCHUYLER	52	38
CONTRACT NO. 72K08				
ILLINOIS		FED. AID PROJECT		



SOIL BORING LOG

Date 4/9/19

ROUTE 67 DESCRIPTION US 67 over Bluff Ditch N of Beardstown LOGGED BY S. Jones
SECTION (87)B-2 LOCATION NE 1/4, SE 1/4, SEC. 23, TWP. 1N, RNG. 1W, 4 PM
COUNTY Schuyler DRILLING METHOD HSA HAMMER TYPE 140# Auto

Table with columns for Depth (ft), Blows (tsf), UCS (%), Soil Description, and Moisture Content (%). Includes data for DK Gray SILTY CLAY LOAM, Gray SILT, Brown, and Med Grained Tan SAND.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOILSIGINT FILES\085 SCHUYLER\BRIDGE BORINGS\187 OVER BLUFF DITCH\BPJ Data Template D6\TEMP1.DOT Date Printed: 4/19/19



SOIL BORING LOG

Date 4/9/19

ROUTE 67 DESCRIPTION US 67 over Bluff Ditch N of Beardstown LOGGED BY S. Jones
SECTION (87)B-2 LOCATION NE 1/4, SE 1/4, SEC. 23, TWP. 1N, RNG. 1W, 4 PM
COUNTY Schuyler DRILLING METHOD HSA HAMMER TYPE 140# Auto

Table with columns for Depth (ft), Blows (tsf), UCS (%), Soil Description, and Moisture Content (%). Includes data for Med Grained Tan SAND, Wet Gray SILT, and V. Wet Gray Loam to Loam w/ Sand Seams.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOILSIGINT FILES\085 SCHUYLER\BRIDGE BORINGS\187 OVER BLUFF DITCH\BPJ Data Template D6\TEMP1.DOT Date Printed: 4/19/19



Table with columns for User Name, Designated, Revised, Checked, Drawn, and Plot Date.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

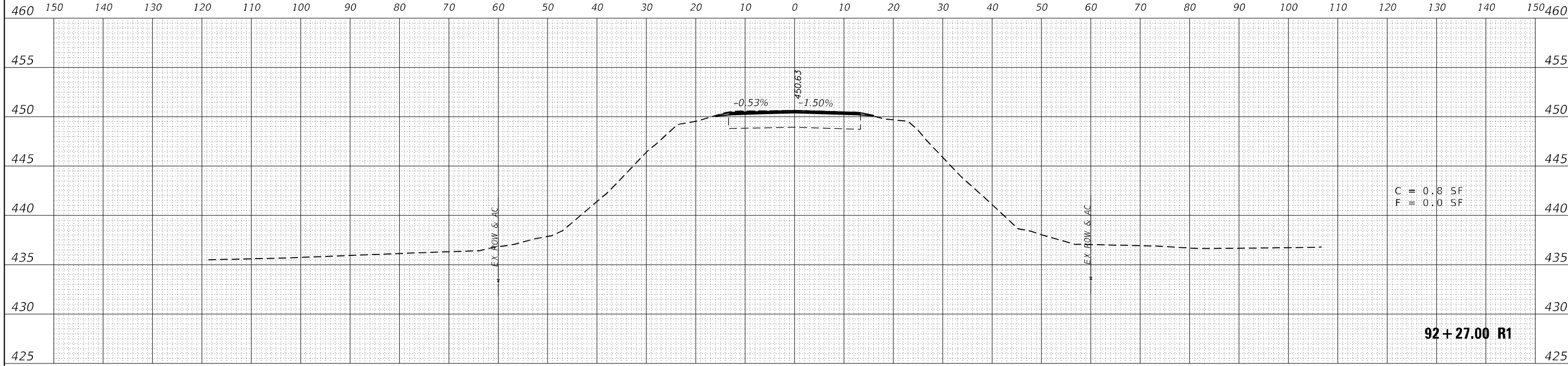
BORING LOGS STRUCTURE NO. 085-05

SHEET 19 OF 20 SHEETS

Table with columns for F.A.P. Rte., Section, County, Total Sheets, Sheet No., and Contract No.

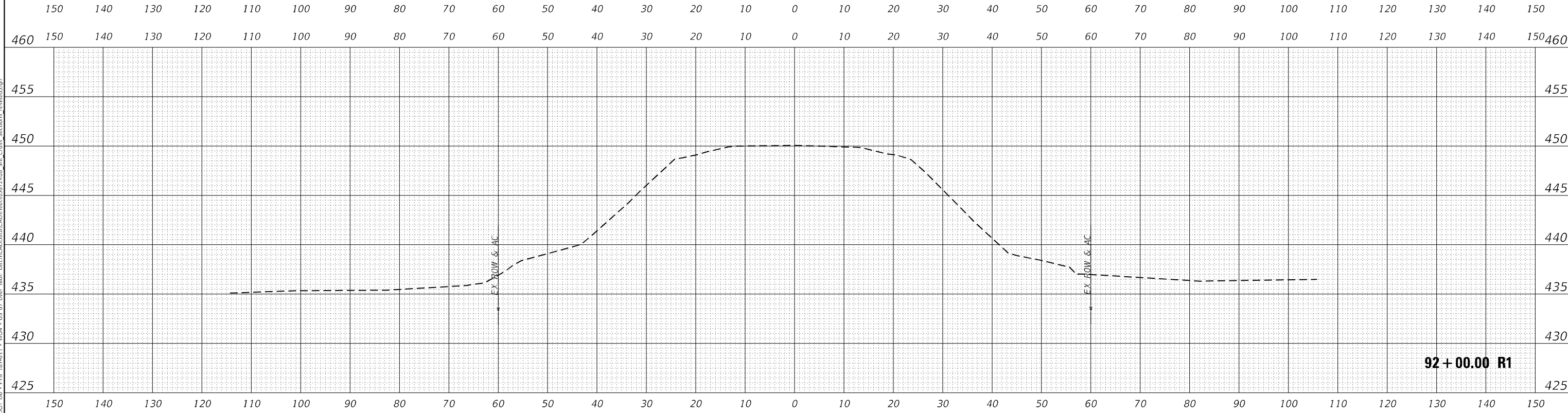


DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



C = 0.8 SF  
F = 0.0 SF

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



MODEL: P187  
FILE NAME: J:\18042.04 IDOT DE - PTB 187-011 - V04 - US 67 over Bluff Ditch\CAD\Draw\CAD\Draw\92+00.00 Stn Cross Sections revised.dgn



USER NAME = myoung	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

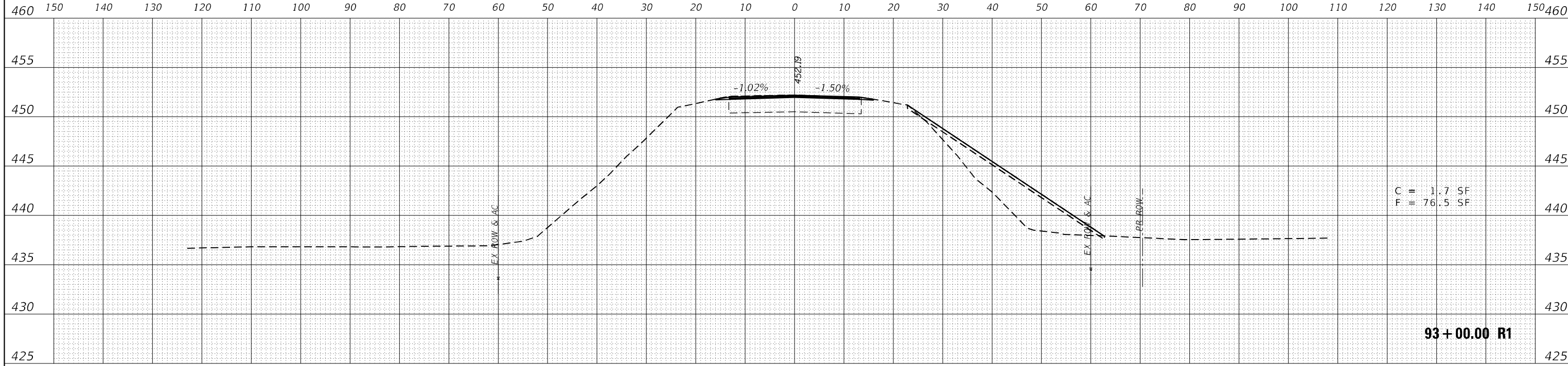
CROSS SECTIONS

SCALE: 10H:5V SHEET 1 OF 12 SHEETS STA. 92+00.00 R1 TO STA. 92+27.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	41
CONTRACT NO. 72K08				
ILLINOIS		FED. AID PROJECT		



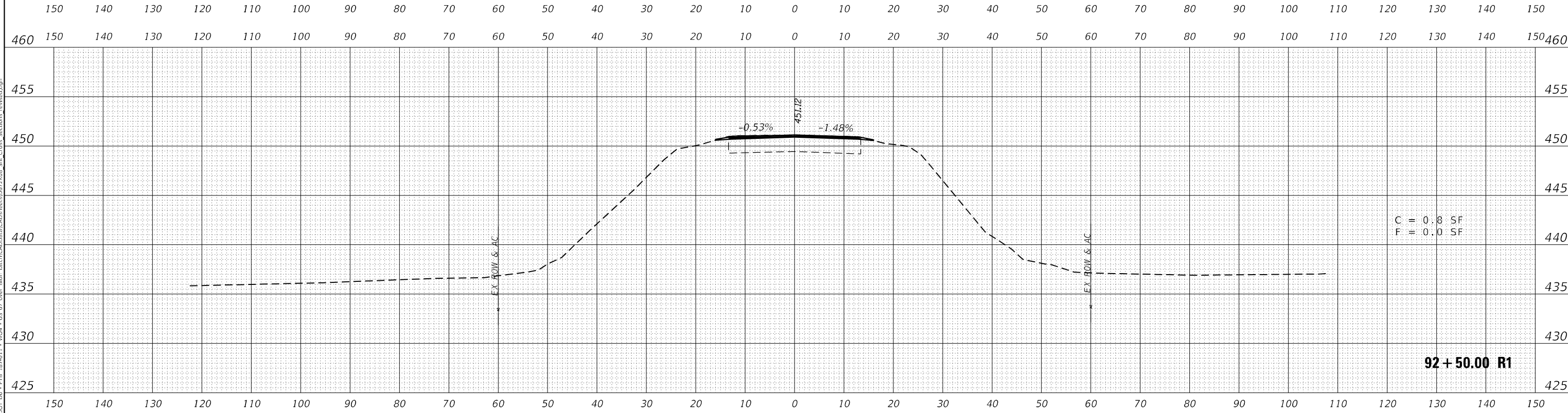
DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



93 + 00.00 R1

C = 1.7 SF  
F = 76.5 SF

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



92 + 50.00 R1

C = 0.8 SF  
F = 0.0 SF



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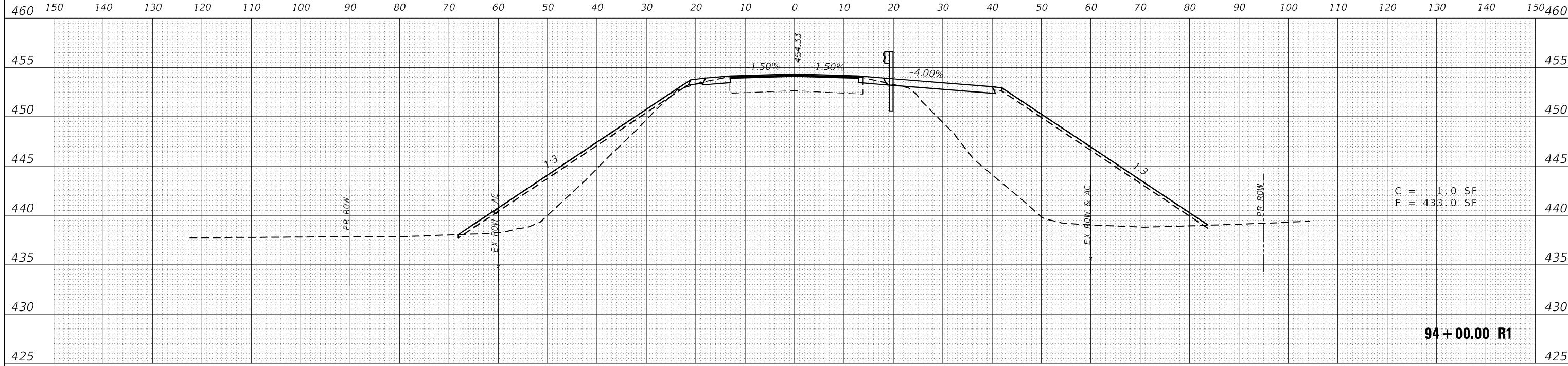
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 10H:5V SHEET 2 OF 12 SHEETS STA. 92+50.00 R1 TO STA. 93+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	42
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	

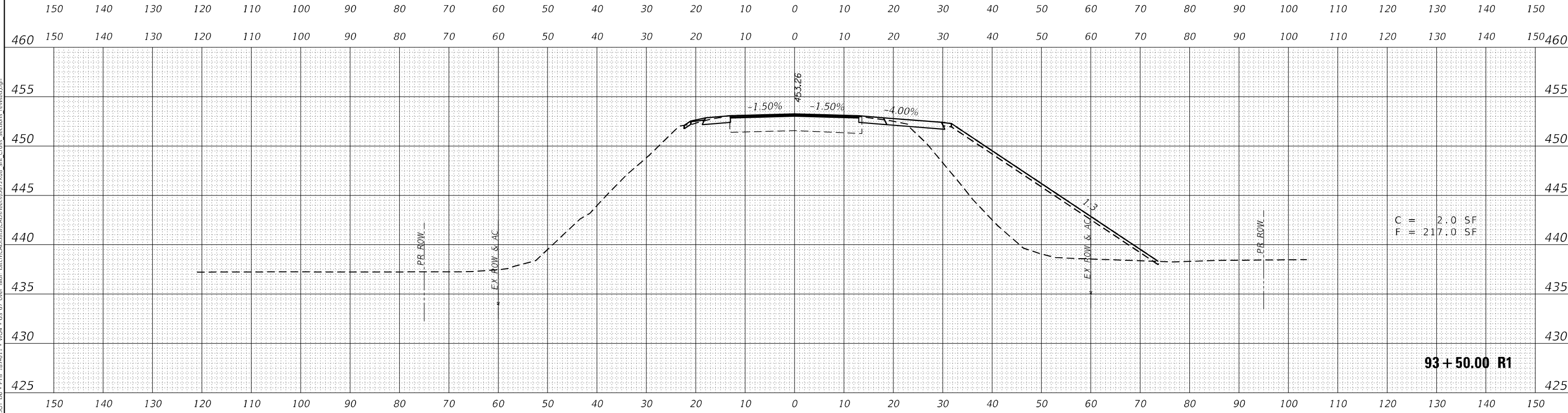
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED
	AREAS
	CHECKED



C = 1.0 SF  
F = 433.0 SF

94 + 00.00 R1

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



C = 2.0 SF  
F = 217.0 SF

93 + 50.00 R1



USER NAME = myoung	DESIGNED -	REVISED -
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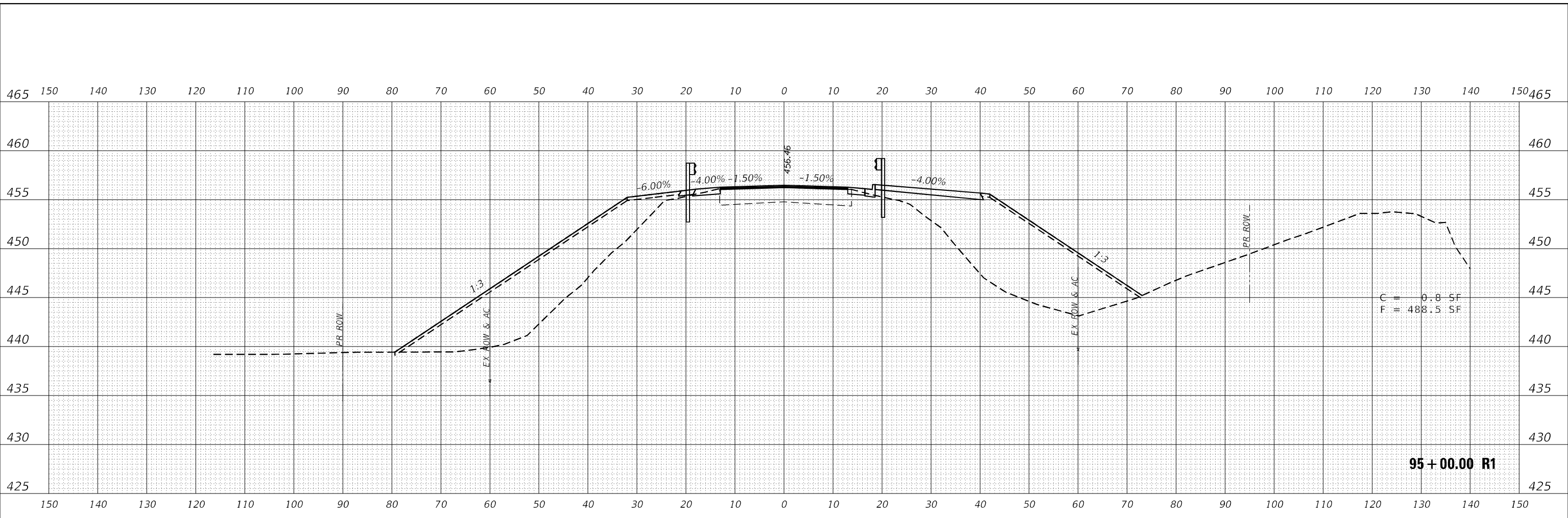
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

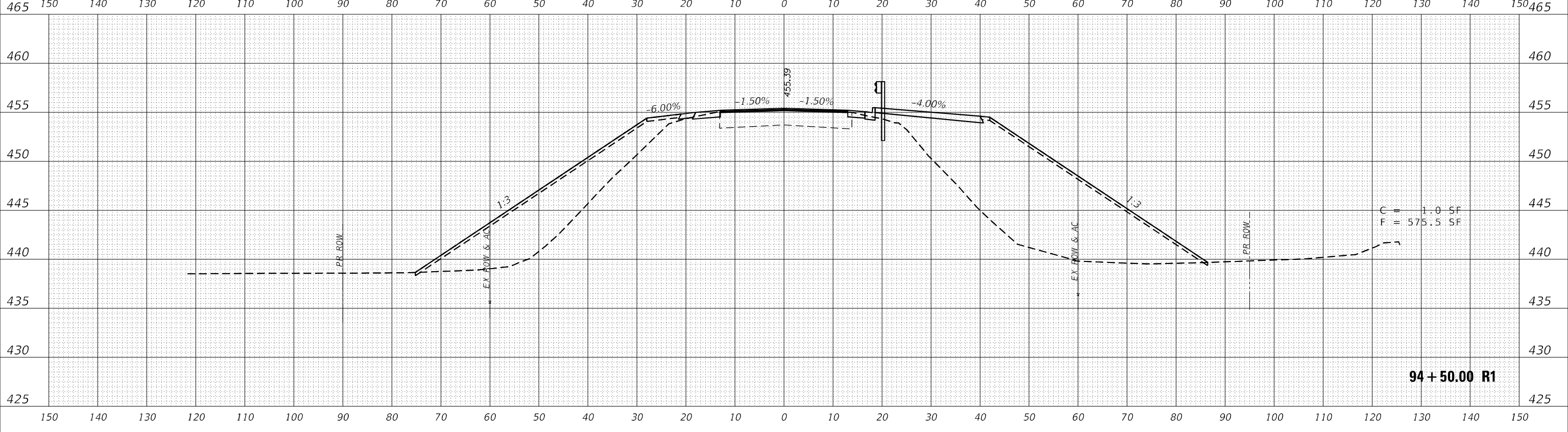
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	43
			CONTRACT NO. 72K08	
			ILLINOIS FED. AID PROJECT	

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



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



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**KUHN & TRELLO**  
 CONSULTING ENGINEERS  
 A Limited Liability Company  
 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62701  
 Phone: 217-875-8844

USER NAME = myoung	DESIGNED -	REVISED -
PLOT SCALE = 20,000' = 1"	DRAWN -	REVISED -
PLOT DATE = 2/3/2021	CHECKED -	REVISED -
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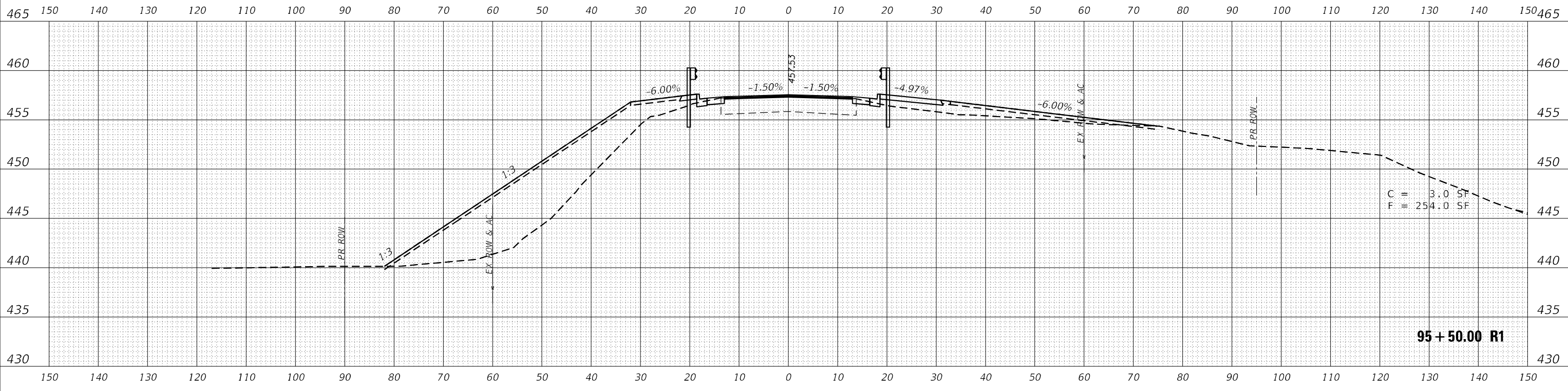
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

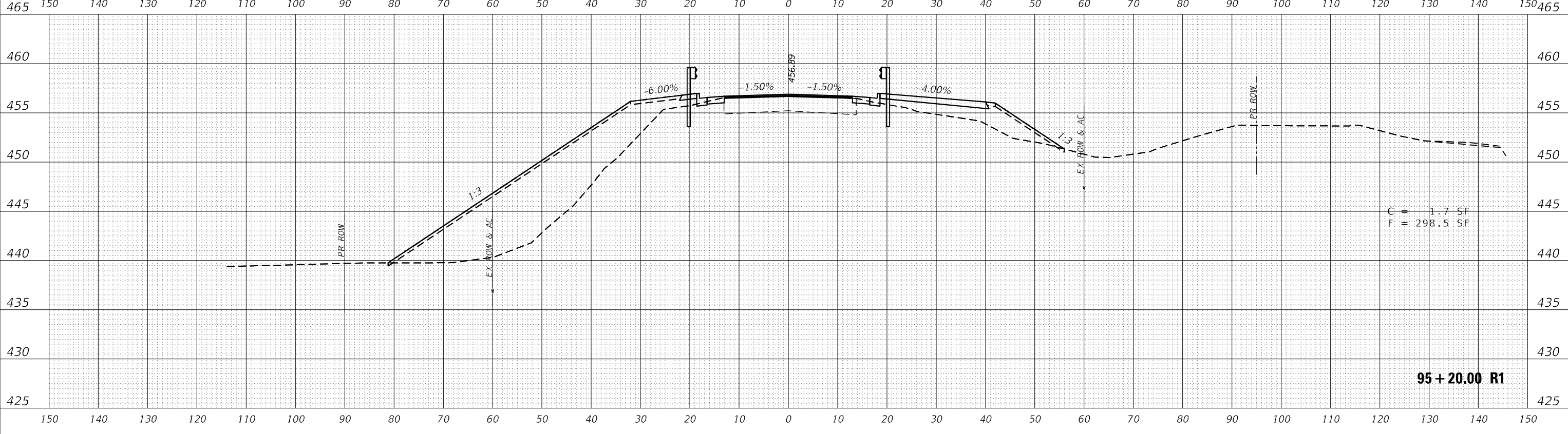
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F.A. RTE. 310	SECTION (87)B-2	COUNTY SCHUYLER	TOTAL SHEETS 52	SHEET NO. 44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	

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



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



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 109 N. 7th Street, 3rd Floor  
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 Phone: 217-875-5844

USER NAME =	myoung
DESIGNED -	REVISD -
DRAWN -	REVISD -
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DATE -	REVISD -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

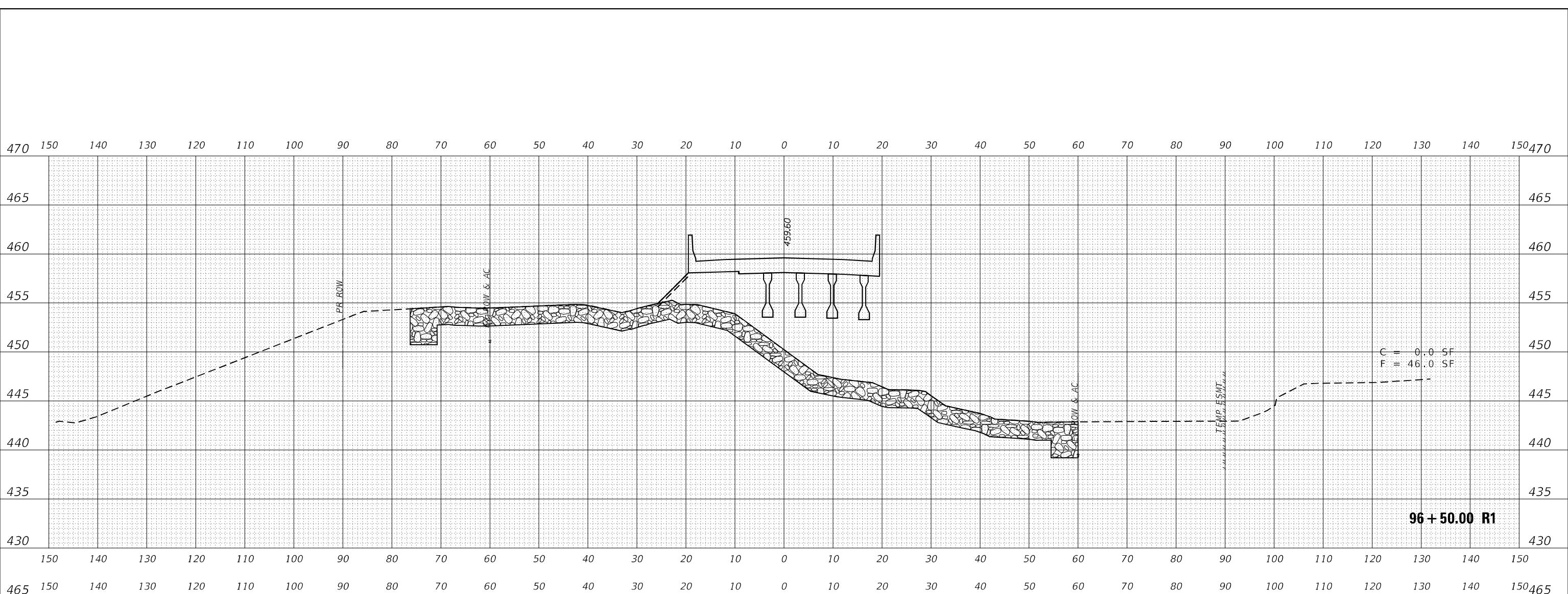
SCALE: 10H:5V    SHEET 5    OF 12    SHEETS    STA. 95+20.00 R1 TO STA. 95+50.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	45
			CONTRACT NO. 72K08	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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	AREAS CHECKED	

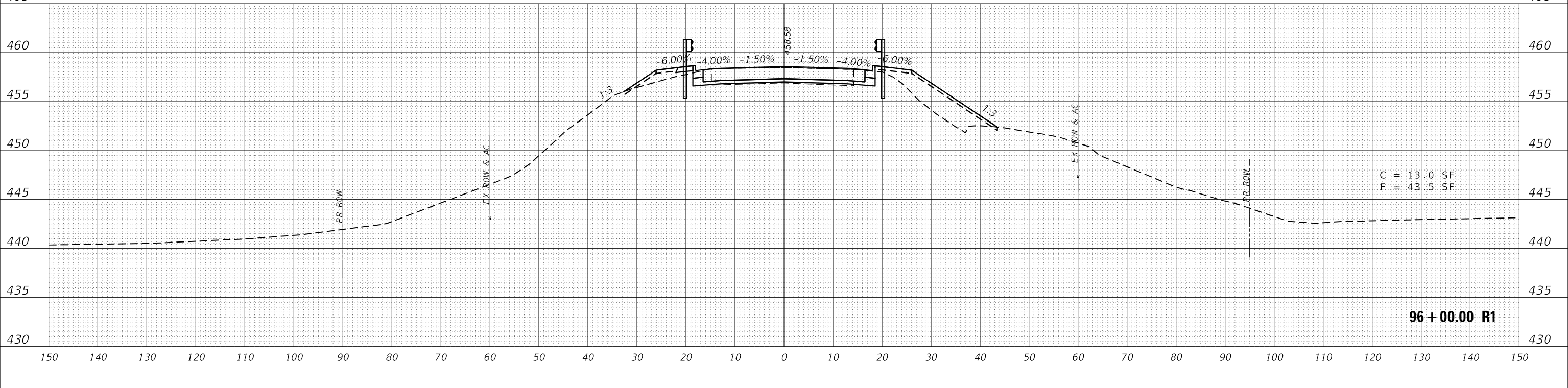
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NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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96+50.00 R1

C = 0.0 SF  
 F = 46.0 SF



96+00.00 R1

C = 13.0 SF  
 F = 43.5 SF

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 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62701  
 Phone: 217-679-9844

USER NAME = myoung	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/3/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

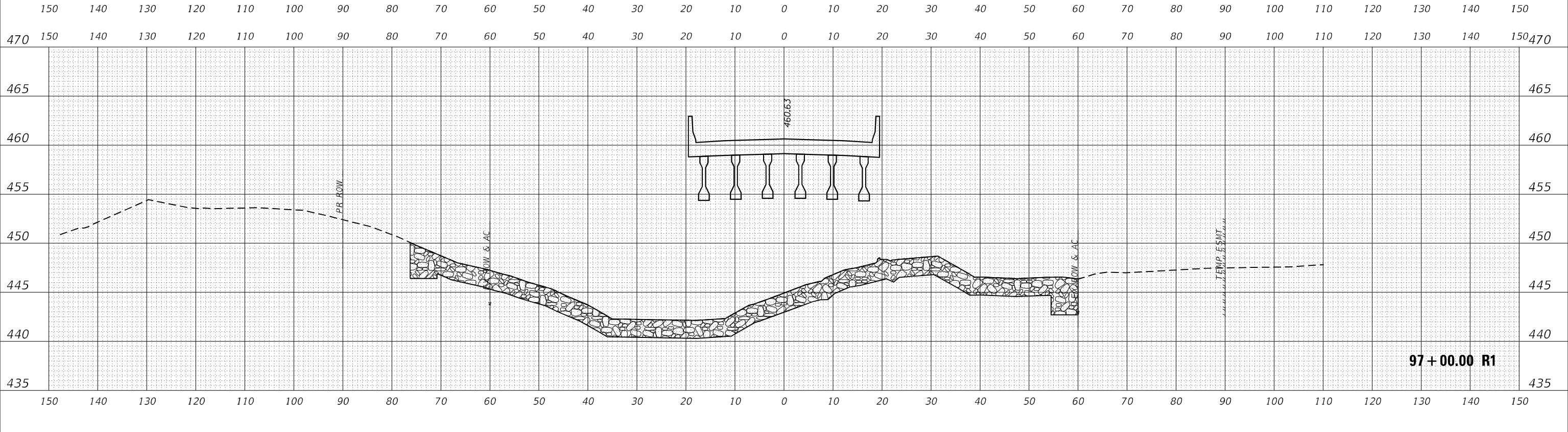
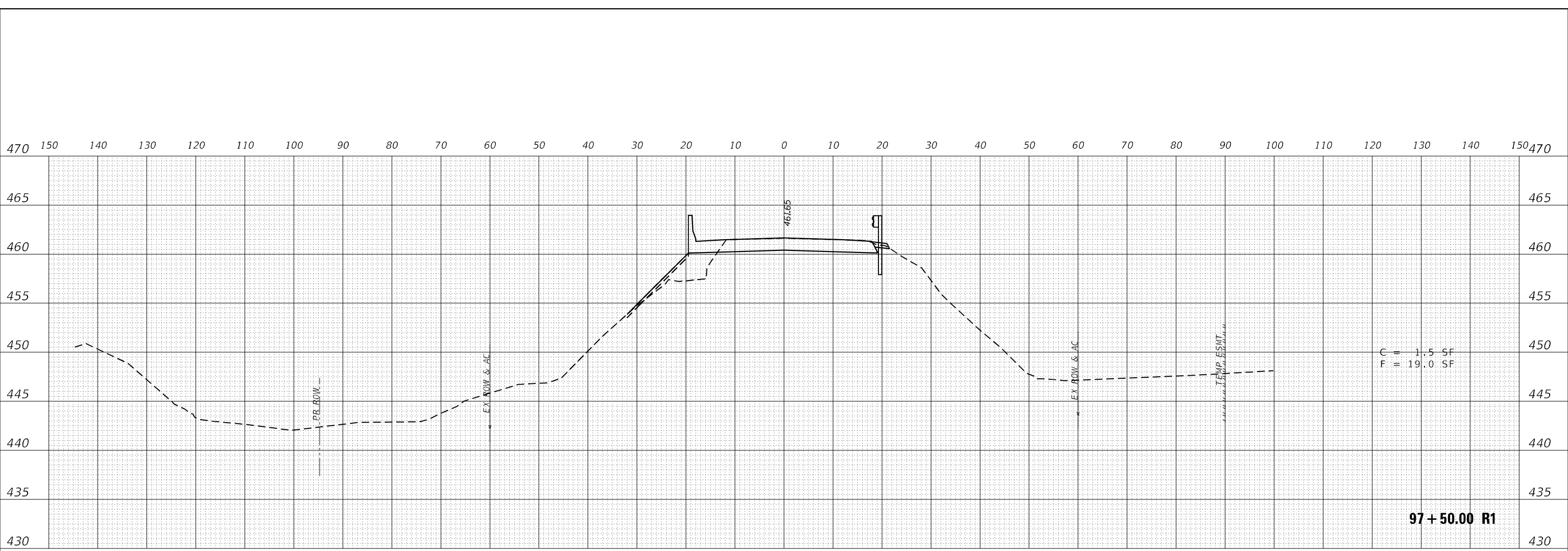
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F.A. RTE. 310	SECTION (87)B-2	COUNTY SCHUYLER	TOTAL SHEETS 52	SHEET NO. 46
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K08	

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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 Springfield, IL 62701  
 Phone: 217-879-9844

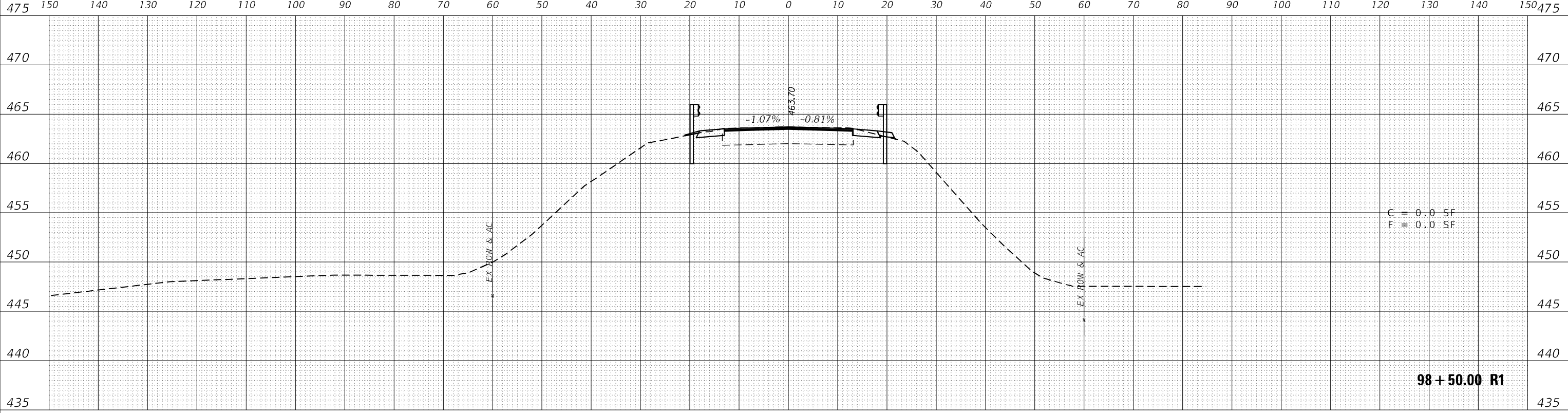
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

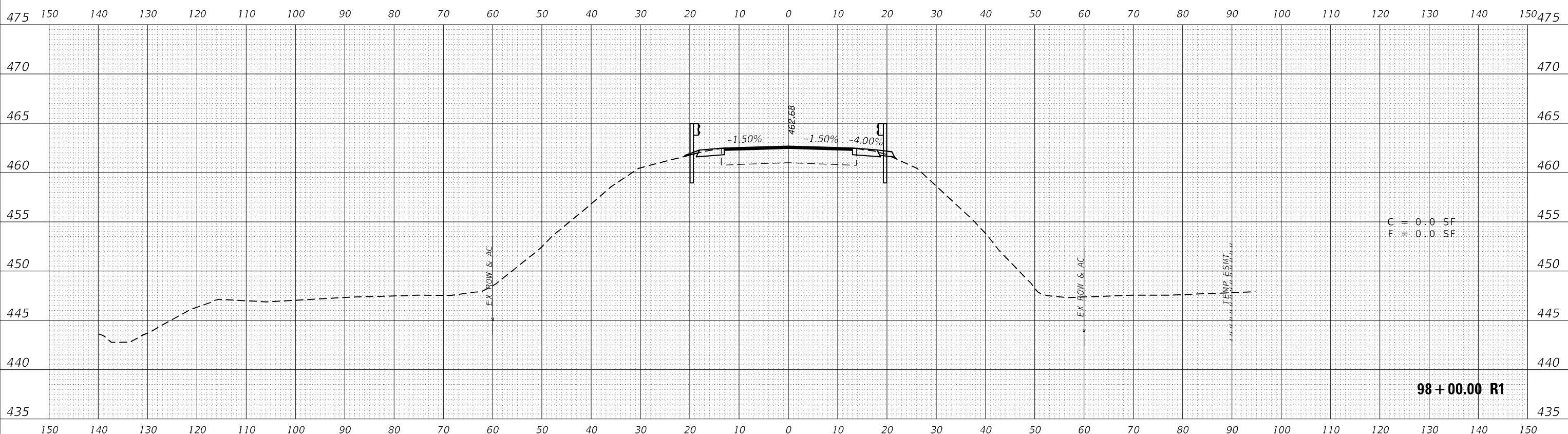
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SCALE: 10H:5V	SHEET 7	OF 12 SHEETS	STA. 97+00.00 R1 TO STA. 97+50.00 R1

F.A. RTE. 310	SECTION (87)B-2	COUNTY SCHUYLER	TOTAL SHEETS 52	SHEET NO. 47
ILLINOIS FED. AID PROJECT				

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



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



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 A Limited Liability Company  
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 Springfield, IL 62701  
 Phone: 217-679-9844

USER NAME = myoung  
 PLOT SCALE = 20,0000 \* / in.  
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DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

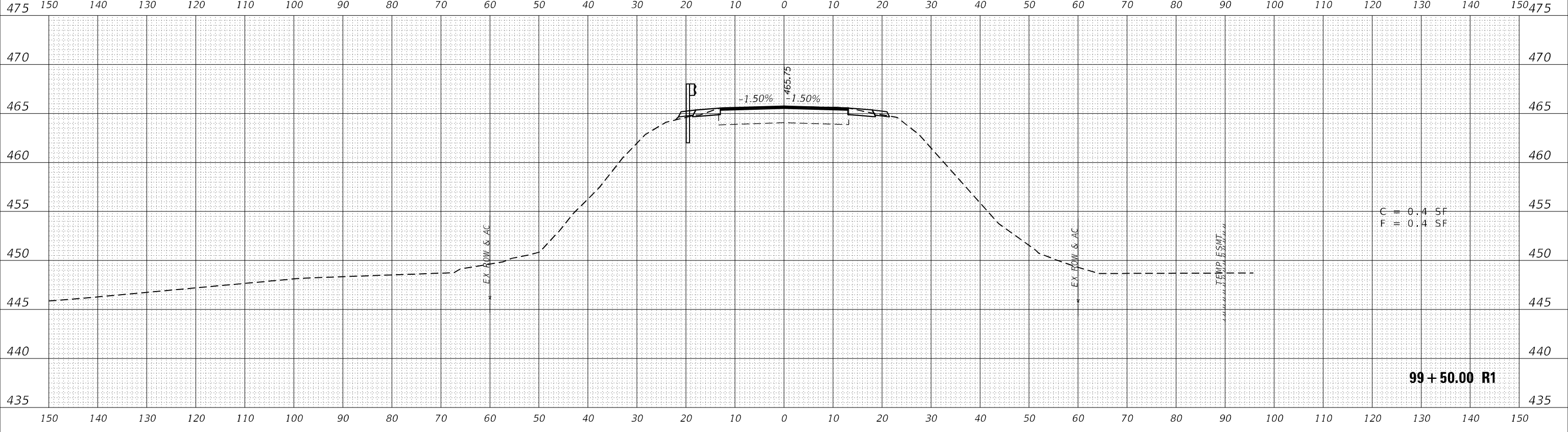
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

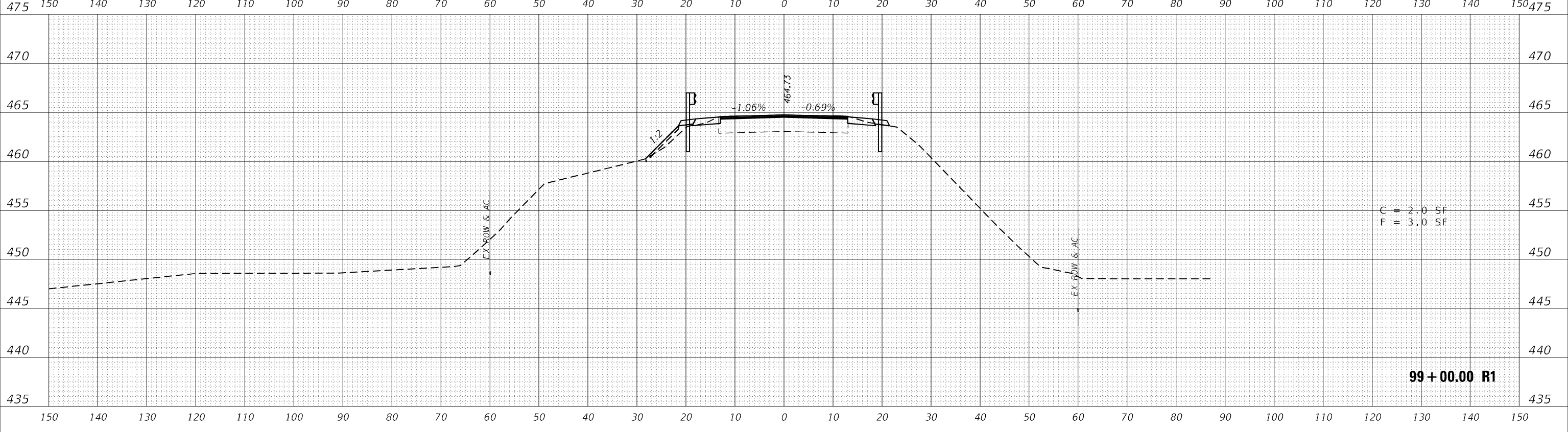
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	48
			CONTRACT NO. 72K08	
			ILLINOIS FED. AID PROJECT	

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



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



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 A Limited Liability Company  
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 Springfield, IL 62701  
 Phone: 217-679-0844

USER NAME = myoung	DESIGNED -	REVISED -
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PLOT SCALE = 20,000' */ in.	CHECKED -	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

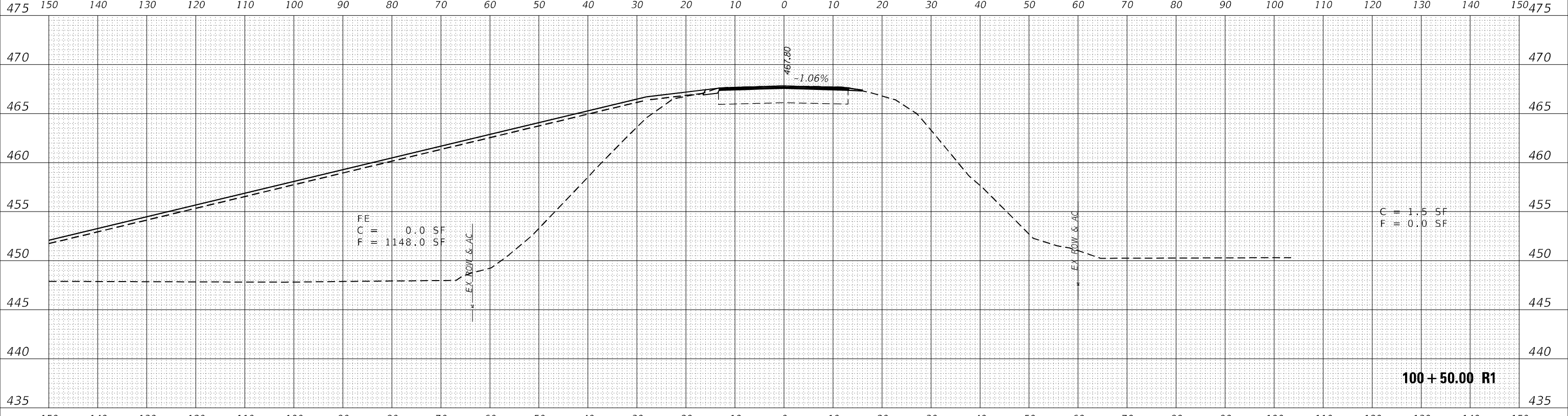
**CROSS SECTIONS**

SCALE: 10H:5V SHEET 9 OF 12 SHEETS STA. 99+00.00 R1 TO STA. 99+50.00 R1

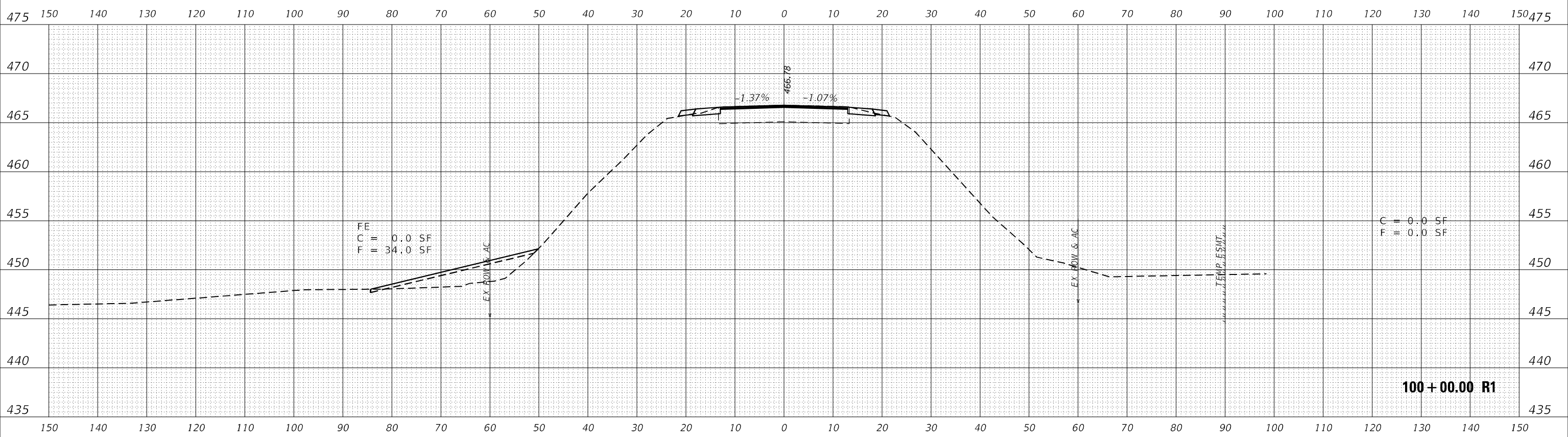
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	49
			CONTRACT NO. 72K08	
			ILLINOIS FED. AID PROJECT	



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



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



**KT**  
**KUHN & TRELLO**  
 CONSULTING ENGINEERS  
 A Limited Liability Company  
 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62701  
 Phone: 217-879-0844

USER NAME = myoung	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/3/2021	DATE -	REVISED -

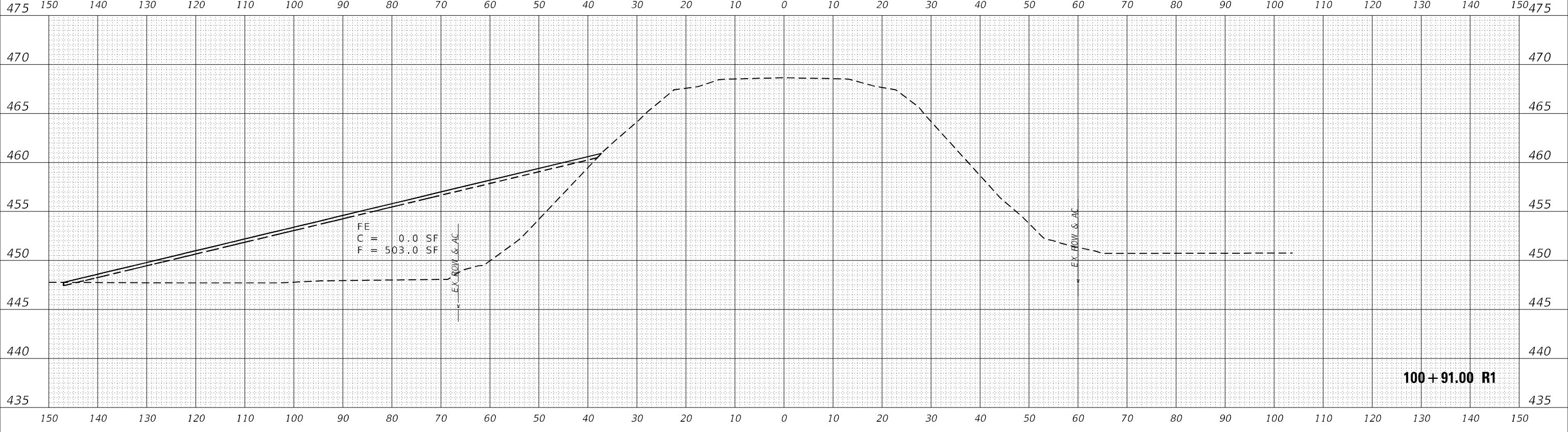
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

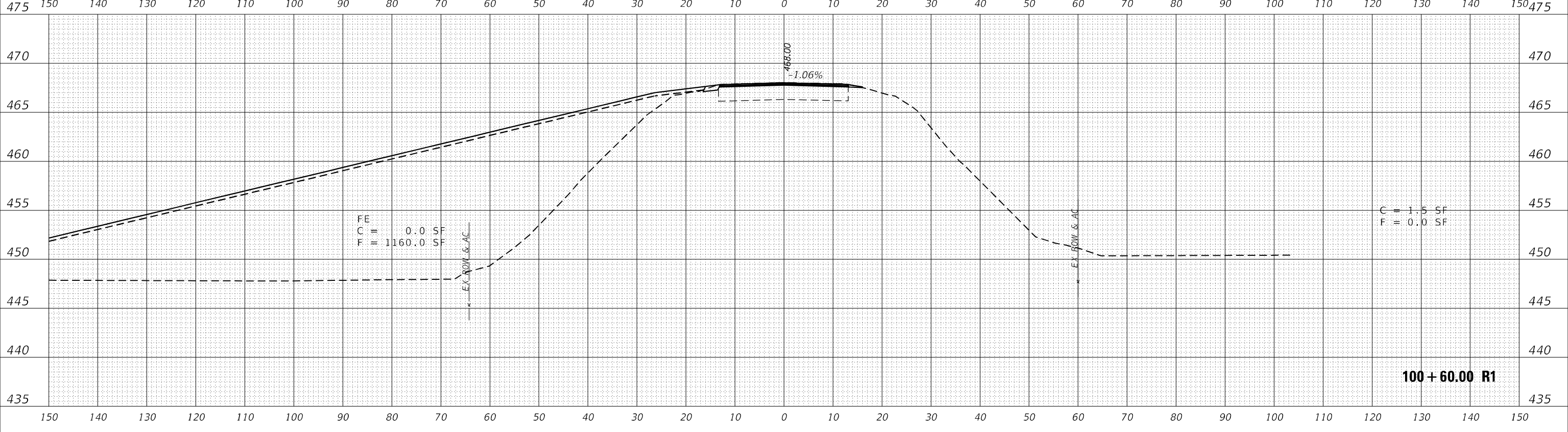
SCALE: 10H:5V SHEET 10 OF 12 SHEETS STA. 100+00.00 R1 TO STA. 100+50.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	50
			CONTRACT NO. 72K08	
			ILLINOIS FED. AID PROJECT	

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



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



MODEL: P187  
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USER NAME	= myoung	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

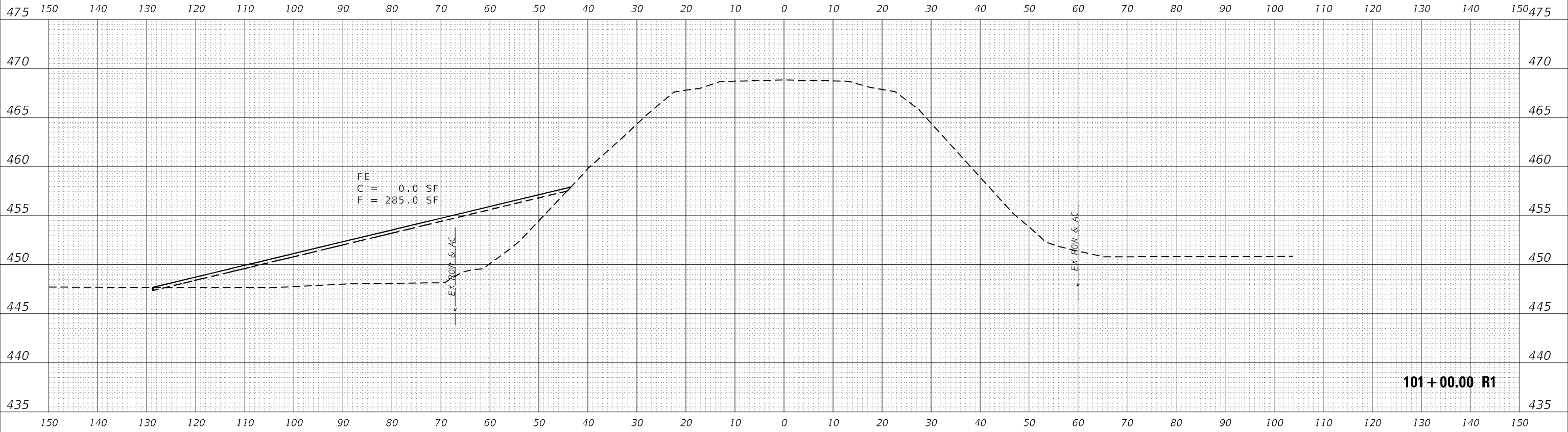
SCALE: 10H:5V SHEET 11 OF 12 SHEETS STA. 100+60.00 R1 TO STA. 100+91.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	51
CONTRACT NO. 72K08			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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101 + 00.00 R1



USER NAME = myoung	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 2/3/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 10H:5V SHEET 12 OF 12 SHEETS STA. 101+00.00 R1 TO STA. 101+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(87)B-2	SCHUYLER	52	52
			CONTRACT NO. 72K08	
			ILLINOIS FED. AID PROJECT	