11-5-2021 LETTING ITEM 053

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	1
		ILLINOIS	CONTRACT NO. 74181	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D-97-054-06

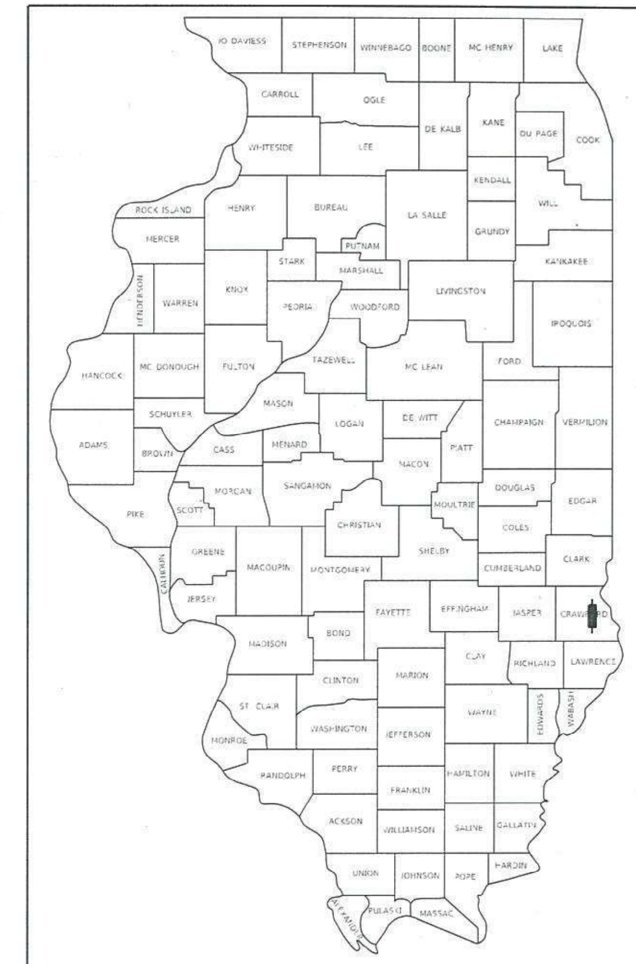
FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 2,850 for SN 017–0033 & SN 017–0032

PROPOSED HIGHWAY PLANS

FAP ROUTE 332 (ILL 1)
SECTION (21–Y,21–X)B–1
PROJECT NHPP–WW8R(125)
BRIDGE REPLACEMENT
CRAWFORD COUNTY

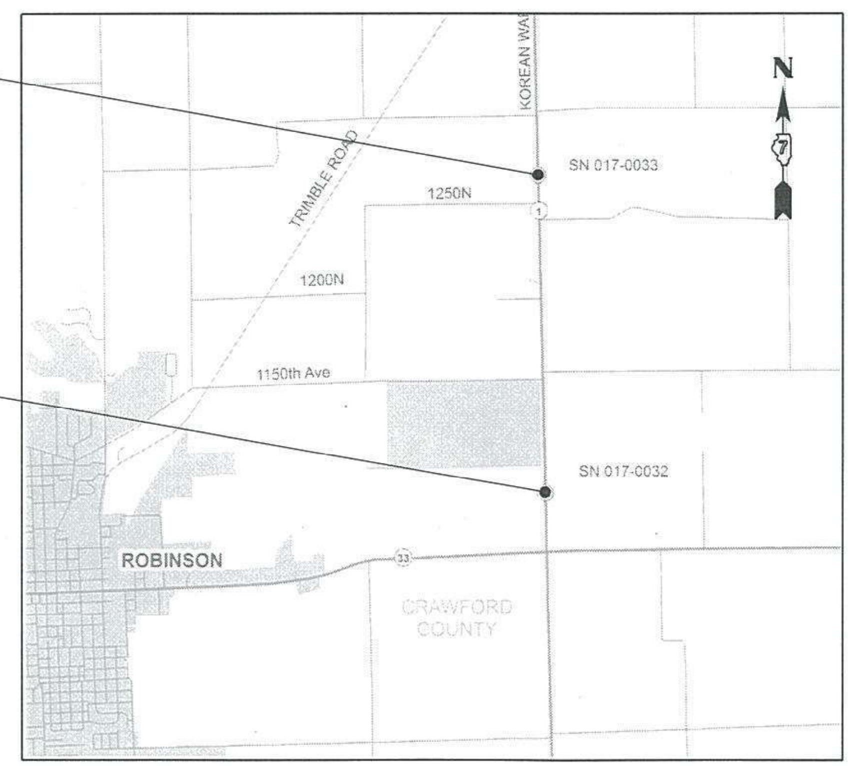
C–97–093–06



LOCATION OF SECTION INDICATED THUS:–

SN 017–0033

SN 017–0032



0 100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 24 20 21

REGIONAL ENGINEER

October 1 20 21

ENGINEER OF DESIGN AND ENVIRONMENT

October 20 21

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: TOM RONAN
PROJECT MANAGER: JEFF DAVISON

GROSS LENGTH = 1,695.00 FT. = 0.321 MILE
NET LENGTH = 1,695.00 FT. = 0.321 MILE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 74181

INDEX OF SHEETS

LIST OF 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
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESUFACING OR WIDENING AND RESURFACING PROJECTS
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) AWAY FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATION-DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
420001-09	PAVEMENT JOINTS
666001-01	ROW MARKERS
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENTS OR MOVING OPERATION, >= 45 MPH
780001-05	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAP 332 (IL 1) IN CRAWFORD COUNTY, ILLINOIS, S.N. 017-0003 IS LOCATED APPROXIMATELY 2.25 MILES NORTH OF IL RTE. 33 AND SN.N 017-0004 IS LOCATED APPROXIMATELY 0.3 MILES NORTH OF IL RTE. 33. THE WORK INCLUDED IN SECTION (21-Y, 21-X)B-1 CONSISTS OF TREE REMOVAL, REMOVAL AND REPLACEMENT OF SN 017-0003 AND 017-0004, EARTHWORK, WIDENING OF IL 1 FOR CONSTRUCTION PURPOSES, PAVEMENT MARKING, MILLING AND HMA RESURFACING AND ANY OTHER WORK NECESSARY TO COMPLETE THE PROJECT.

THE MATERIAL USED FOR AGGREGATE WEDGE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE OR RAP. THE MATERIAL USED FOR AGGREGATE SURFACE COURSE, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.

WHEN APPLYING SHORT TERM PAVEMENT MARKINGS, TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON MILLED SURFACES,

THE ENGINEER WILL BE THE SOLE JUDGE OF THE CURING TIME OF THE VARIOUS HOT-MIX ASPHALT PAY ITEMS.

THE THICKNESS OF THE PAVEMENT REMOVAL SHOWN IN THE PLANS IS APPROXIMATELY 16½"

TREE CLEARING WILL NOT BE ALLOWED BETWEEN APRIL 1ST AND SEPTEMBER 30TH OF ANY CONSTRUCTION YEAR.

TREES TO BE REMOVED AS PART OF THIS CONTRACT ARE TO BE REPLACED. THE REPLACEMENT TREES ARE TO BE DELIVERED TO RED HILLS STATE PARK IN SUMNER, IL. CONTACT INFORMATION REGARDING THIS MATTER IS LISTED BELOW:

RED HILLS STATE PARK
3571 RANGER LANE
SUMNER, IL 62466
CONTACT: TONY HOLTSCHLAG, SUPERINTENDENT
PHONE: (618)936-2469

THE FOLLOWING MIXTURE REQUIRMENTS ARE APPLICABLE TO THIS PROJECT:

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	QUALITY MANAGEMENT	PAY ITEM
HMA SURFACE COURSE, MIX "C", N70 (1 1/2")	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA	HMA PAVEMENT (FULL-DEPTH), 11"
HMA BINDER COURSE, N70, IL 19.0 (4" MAX LIFT THICKNESS)	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA	
HMA SURFACE COURSE, MIX "C", N70 (1 1/2")	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA	HMA SURFACE COURSE, 1 1/2"
HMA BINDER COURSE, N70, IL-9.5FG (3/4")	PG 64-22	4.0% @ N=70	IL - 9.5FG	N/A	QC/QA	HMA BINDER COURSE, IL-9.5FG N70
HMA BINDER COURSE, N70, IL 19.0	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA	HMA BINDER COURSE, VARIABLE DEPTH
HMA SURFACE COURSE, MIX "C", N70 (1 1/2")	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA	HMA BASE COURSE WIDENING, 10"
HMA BINDER COURSE, N70, IL 19.0	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA	
HMA SURFACE COURSE, MIX "C", N70 (1 1/2")	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA	HMA SHOULDERS, 10"
HMA BINDER COURSE, N70, IL 19.0	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA	

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES

BITUMINOUS MATERIALS (TACK COAT)	0.05 LB/SQ.FT. & 0.025 LB/SQ.FT.
HOT-MIX ASPHALT	112 LB/INCH/SQ.YD.
AGGREGATE WEDGE SHOULDER	2.05 TON/CU.YD.
STONE RIPRAP, CLASS A4	0.60 TON/SQ.YD
STONE RIPRAP, CLASS A5	0.825 TON/SQ.YD

REV. - MS

80% FED
20% STATE
RURAL

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE SN 017-0033 0010	SN 017-0032 0010	
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	521	260	261	
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	273	52	221	
	20200100	EARTH EXCAVATION	CU YD	2371	1224	1147	
	20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	20	10	10	
	20300100	CHANNEL EXCAVATION	CU YD	494	202	292	
	20400800	FURNISHED EXCAVATION	CU YD	479	61	418	
	20600200	GRANULAR EMBANKMENT, SPECIAL	CU YD	1230		1230	
*	25000200	SEEDING, CLASS 2	ACRE	1.3	0.5	0.8	
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	117	45	72	
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	117	45	72	
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	117	45	72	
*	25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.6	1	1.6	
*	25100115	MULCH, METHOD 2	ACRE	1.3	0.5	0.8	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	390	150	240	

80% FED
20% STATE
RURAL

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE SN 017-0033 0010	SN 017-0032 0010	
28000305	TEMPORARY DITCH CHECKS	FOOT	389	172	217	
28000400	PERIMETER EROSION BARRIER	FOOT	2451	578	1873	
28100109	STONE RIPRAP, CLASS A5	SQ YD	1818	813	1005	
28100207	STONE RIPRAP, CLASS A4	TON	991	253	738	
28200200	FILTER FABRIC	SQ YD	1818	813	1005	
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	639	639		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2811		2811	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2322	834	1488	
40600990	TEMPORARY RAMP	SQ YD	126	126		
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	94	94		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	63		63	
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	260	104	156	
40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SQ YD	966		966	

* SPECIALTY ITEM

REV. - MS

80% FED
20% STATE
RURAL

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE SN 017-0033 0010	SN 017-0032 0010	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	357	133	224	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	357	133	224	
44000100	PAVEMENT REMOVAL	SQ YD	473	473		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1722		1722	
44004250	PAVED SHOULDER REMOVAL	SQ YD	484	284	200	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	1180	362	818	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	11	9	2	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	400	51	349	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1		
50105220	PIPE CULVERT REMOVAL	FOOT	55	55		
50200100	STRUCTURE EXCAVATION	CU YD	120.8	56	64.8	
50300100	FLOOR DRAINS	EACH	10		10	

80% FED
20% STATE
RURAL

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE SN 017-0033 0010	SN 017-0032 0010	
50300225	CONCRETE STRUCTURES	CU YD	143.5	66.2	77.3	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	302.4	136.6	165.8	
50300260	BRIDGE DECK GROOVING	SQ YD	1229	590	639	
50300300	PROTECTIVE COAT	SQ YD	1498	719	779	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	251.4	123.7	127.7	
50401105	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 54 IN.	FOOT	534		534	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1	1		
50500505	STUD SHEAR CONNECTORS	EACH	1692	1692		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	140280	66050	74230	
50800515	BAR SPLICERS	EACH	573	573		
51201400	FURNISHING STEEL PILES HP10X42	FOOT	1356	490	866	
51202305	DRIVING PILES	FOOT	1356	490	866	
51203400	TEST PILE STEEL HP10X42	EACH	3	2	1	

REV. - MS

80% FED
20% STATE
RURAL

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE SN 017-0033 0010	SN 017-0032 0010	
51500100	NAME PLATES	EACH	2	1	1	
52100520	ANCHOR BOLTS, 1"	EACH	24	24		
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	492	492		
54262730	METAL FLARED END SECTIONS 30"	EACH	2	2		
542D1075	PIPE CULVERTS, CLASS D, TYPE 2 30"	FOOT	53	53		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	418	159	259	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	202	83	119	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	100	50	50	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	720	340	380	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	12	3	9	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	2	1	1	

80% FED
20% STATE
RURAL

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE SN 017-0033 0010	SN 017-0032 0010	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	4.5	4.5	
67100100	MOBILIZATION	L SUM	1	0.5	0.5	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4	4		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	495	495		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	116	116		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	21	21		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3814	1395	2419	

* SPECIALTY ITEM

REV. - MS

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/18/2021	DATE -	REVISED -	

SUMMARY OF QUANTITIES

SCALE: NA | SHEET 3 OF 4 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	5

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT

80% FED
20% STATE
RURAL

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE SN 017-0033 0010	SN 017-0032 0010	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	462.5	462.5		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	437.5	437.5		
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
	70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	4	4	
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3814	1395	2419	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	19	7	12	
*	78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	32	16	16	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	19	7	12	
*	A2001016	TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	10	5	5	
*	A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	45	18	27	
*	B2001116	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	10	5	5	

80% FED
20% STATE
RURAL

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE SN 017-0033 0010	SN 017-0032 0010	
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	413	413		
	X4020500	AGGREGATE SURFACE COURSE, TYPE B 6"	SQ YD	205	205		
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1835	1835		
	X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1		1	
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	1436	630	806	
	X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	54	54		
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	16	8	8	
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	112		112	
	Z0004638	PAVEMENT BREAKING	SQ YD	1192		1192	
	Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHOLES (COLD MIX)	TON	1	1		
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	329	153	176	
Ø	Z0076600	TRAINEES	HOUR	500	500		
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		

* SPECIALTY ITEM

Ø 0042

REV. - MS

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/18/2021	DATE -	REVISED -	

SUMMARY OF QUANTITIES

SCALE: NA | SHEET 4 OF 4 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	6

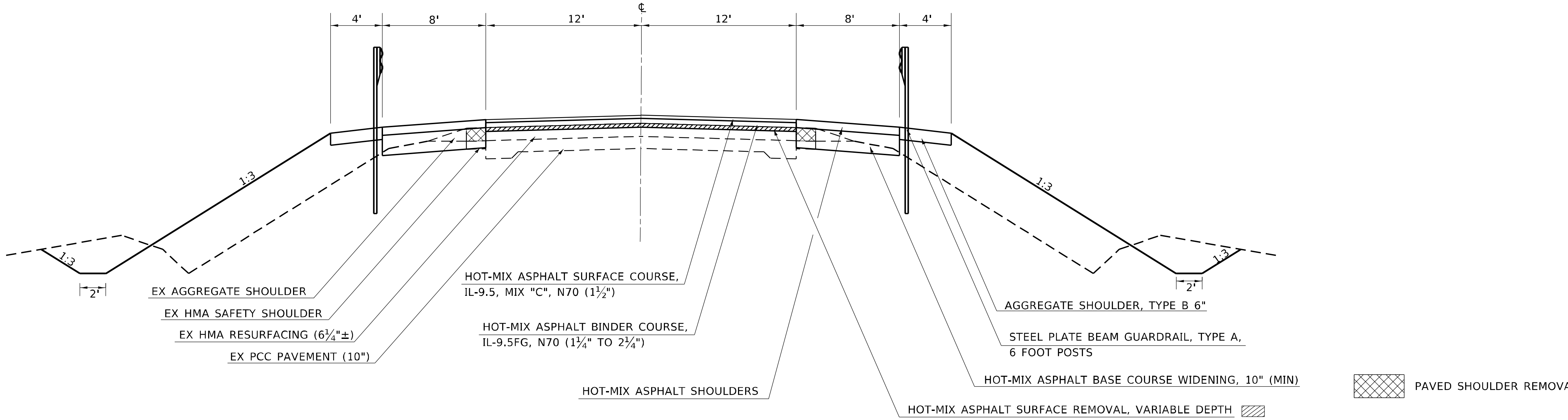
CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT

MODEL: Default
FILE NAME: pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-SOQ.dgn

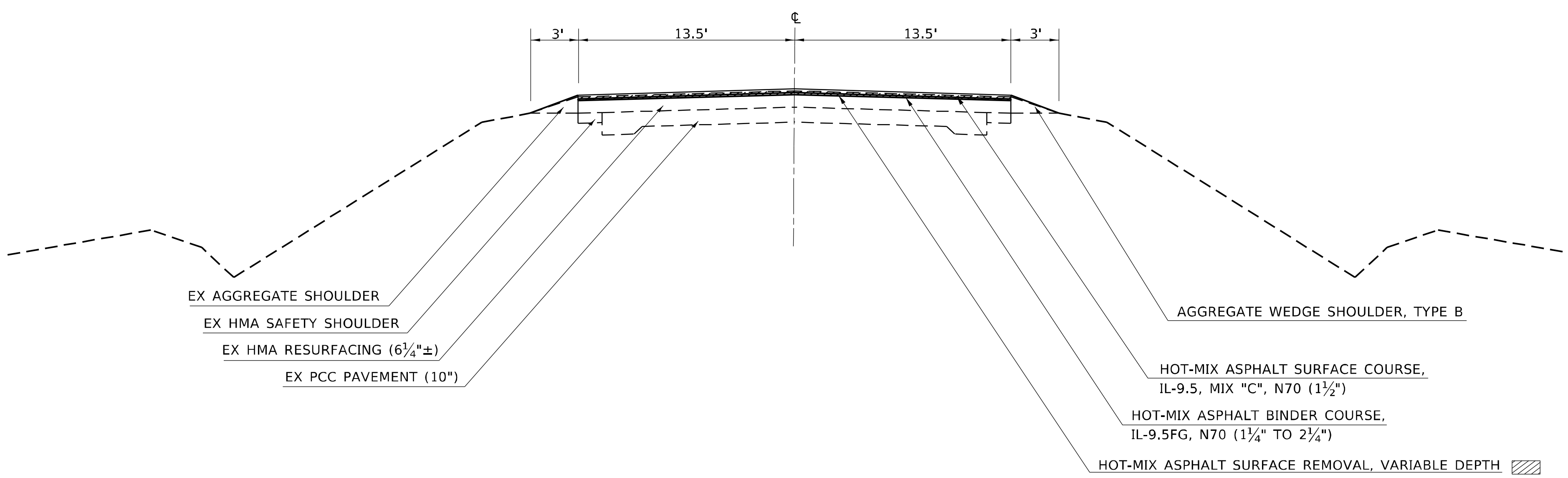
TYPICAL CROSS SECTIONS

STA. 111+43.99 TO STA. 113+20.50
STA. 113+20.50 TO STA. 114+79.50 (PAVING OMISSION)
STA. 114+79.50 TO STA. 116+63.49



TYPICAL CROSS SECTIONS

STA. 111+00.00 TO STA. 111+43.99
STA. 116+63.49 TO STA. 117+20.00



MODEL: Default
FILE NAME: pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADsheets\D774181-sht-typical.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/18/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

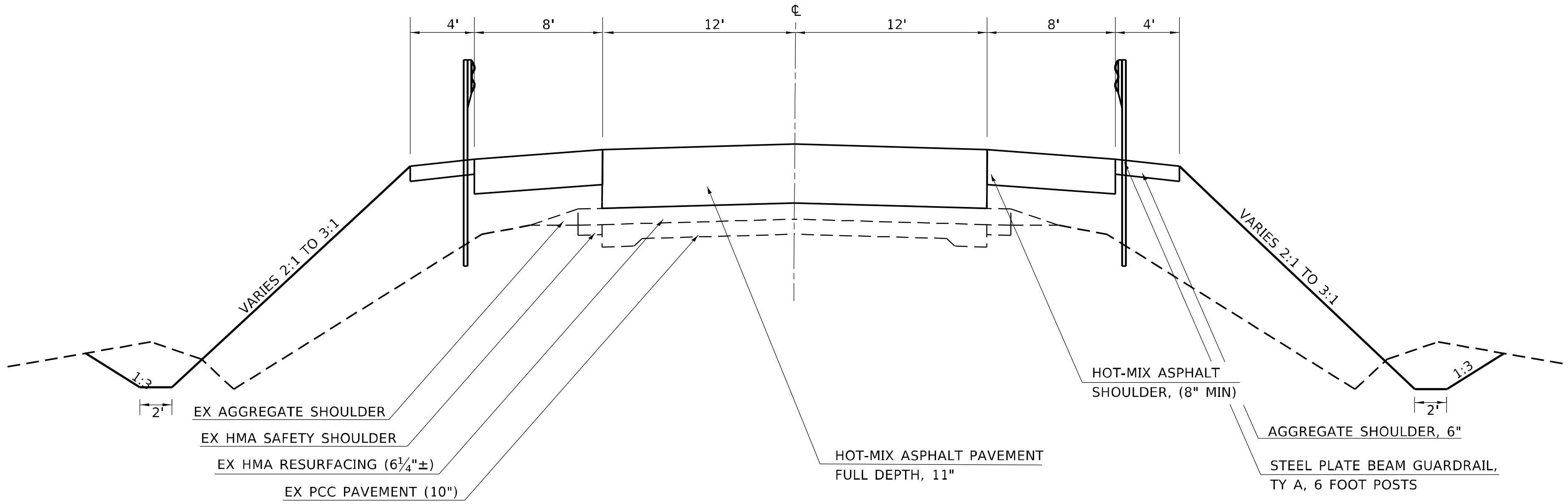
TYPICAL CROSS SECTION
S.N. 017–0033

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	7
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

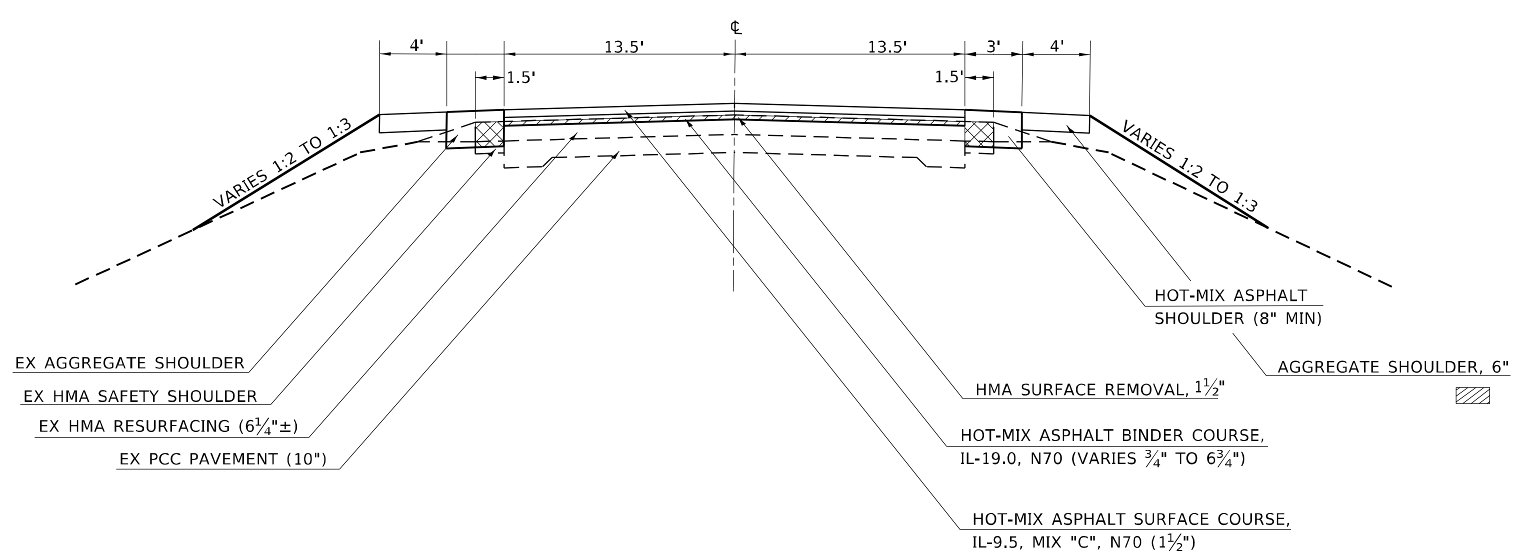
TYPICAL CROSS SECTIONS

STA. 206+50.16 TO STA. 208+36.48
STA. 208+36.48 TO STA. 210+37.53 (PAVING OMISSION)
STA. 210+37.53 TO STA. 212+13.39



TYPICAL CROSS SECTIONS

STA. 204+00.00 TO STA. 205+54.84 (2" SURFACE INLAY)
STA. 205+54.84 TO STA. 206+50.16
STA. 212+13.39 TO STA. 213+01.52
STA. 213+01.52 TO STA. 214+75.00 (2" SURFACE INLAY)



PAVED SHOULDER REMOVAL

MODEL: Default
FILE NAME: pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADsheets\D774181-sht-typical.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/18/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION
S.N. 017–0032

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	8

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT

PAVING SCHEDULE

LOCATION STATION	TO	STATION	LENGTH	PAVEMENT WIDTH	SHOULDER WIDTH	AREA	PAVED SHOULDER REMOVAL	PAVEMENT REMOVAL	EXCAVATING & GRADING EXISTING SHOULDER	HOT-MIX ASPHALT SHOULDERS	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	HOT-MIX ASPHALT BINDER, IL-9.5FG, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	AGGREGATE SHOULDERS, TYPE B 6"	AGGREGATE WEDGE SHOULDER, TYPE B
STATION	TO	STATION	FEET	FEET	FEET	SQ FT	SQ YD	SQ YD	UNIT	TON	SQ YD	POUND	SQ YD	TON	TON	SQ YD	TON
SN 017-0033																	
111+00.00	TO	111+27.00	27.0	27.0	0.0	729.0	9.0		0.54			54.7	81.0	5.7	6.8		2.2
111+27.00	TO	111+60.97	34.0	25.5	1.5'-4.56'	991.6	11.3		0.68	2.20	13.93	65.0	115.8	6.7	8.1	15.1	1.4
111+60.97	TO	112+03.58	42.6	24.0	6'-14'	1,340.3	14.2		0.85	5.30	35.30	76.7	161.2	8.0	9.5	37.9	
112+03.58	TO	112+23.60	20.0	24.0	14'-16'	759.9	6.7		0.40	2.80	31.04	36.0	86.8	3.7	4.5	17.8	
112+23.60	TO	113+15.50	91.9	24.0	16.0	3,676.0	30.6		1.84	15.60	163.38	165.4	408.4	24.0	20.6	81.7	
113+15.50	TO	113+30.50	15.0	24.0	16.0	279.0	15.8	55.8	0.15		26.67		66.7			13.3	
113+30.50	TO	113+60.50	30.0	24.0	16.0	960.0	31.7	111.7	0.30		26.67					11.7	
113+60.50	TO	113+78.59	18.1	27.0		488.4	19.1	67.3	0.18		32.44						
113+78.59	TO	114+21.05	42.5				STRUCTURE OMISSION										
114+21.05	TO	114+39.50	18.5	27.0	8.0	645.8	19.5	69.1	0.18		16.40						
114+39.50	TO	114+69.50	30.0	24.0	8.0	960.0	31.7	112.3	0.30		26.67					11.7	
114+69.50	TO	114+84.50	15.0	24.0	8.0	1,102.9	15.8	56.2	0.15	16.20	13.33					13.3	
114+84.50	TO	115+77.36	92.9	24.0	16.0	3,714.4	31.0		1.86	4.10	165.08	167.1	412.7	18.4	20.8	82.5	
115+77.36	TO	116+06.67	29.3	24.0	16'-13.5'	1,060.4	9.8		0.59	4.10	39.67	52.8	127.1	5.5	6.6	26.1	
116+06.67	TO	116+54.87	48.2	24.0	13.5'-5'	1,551.7	16.1		0.96	0.40	43.88	86.8	178.5	9.0	10.8	42.8	
116+54.87	TO	116+72.11	17.2	25.5	8.5'-3'	479.6	5.7		0.34		4.44	33.0	53.3	3.4	4.1	7.7	0.9
116+72.11	TO	117+20.00	47.9	27.0	0.0	1,293.0	16.0		0.96			97.0	143.7	10.1	12.1		4.4
PROJECT TOTALS =							284	473	10	51	639	834	1,835	94	104	362	9

REV. - MS

PAVEMENT MARKING SCHEDULE

STATION	TO	STATION	LENGTH	PAVEMENT MARKING BLACKOUT TAPE, 5"	SHORT-TERM PAVEMENT MARKING (YELLOW SKIP-DASH)	SHORT-TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING LINE-4" (YELLOW SKIP-DASH)	TEMPORARY PAVEMENT MARKING LINE-4" (WHITE)	PAINT PAVEMENT MARKING LINE-4" (YELLOW SKIP-DASH)	PAINT PAVEMENT MARKING LINE-4" (WHITE)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS (BI-DIRECT AMBER)	TEMPORARY PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL-WATER BLASTING
			FEET	FEET	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	SQ FT	SQ FT
SN 017-0033														
110+05.00	TO	111+00.00	95.0	213.8									71.3	
111+00.00	TO	113+60.50	260.5		52.1	8.7	65.1	521.0	65.1	521.0	3	3	195.4	173.7
113+60.50	TO	114+39.50	79.0		7.9	2.6	19.8	158.0	19.8	158.0	0	0	59.3	52.7
114+39.50	TO	117+20.00	280.5		56.1	9.4	70.1	561.0	70.1	561.0	4	4	210.4	187.0
117+20.00	TO	118+44.90	124.9	281.0									93.7	
PROJECT TOTALS =				495	116	21	155	1,240	155	1,240	7	7	630	413

TEMPORARY DITCH CHECKS

LOCATION		QUANTITY (EACH)	QUANTITY (FOOT)	LOCATION		QUANTITY (EACH)	QUANTITY (FOOT)
SN 017-0033				SN 017-0033			
111+00.00	RT.	1	8.3	114+50.00	LT.	1	8.3
112+77.90	RT.	1	8.3	115+06.24	LT.	1	8.3
113+37.46	RT.	1	13.5	115+32.58	LT.	1	8.3
114+31.15	RT.	1	8.3	115+53.36	LT.	1	8.3
114+45.86	RT.	1	8.3	115+62.02	LT.	1	8.3
114+63.69	RT.	1	8.3	115+70.68	LT.	1	8.3
114+83.20	RT.	1	8.3	115+93.41	LT.	1	8.3
115+02.49	RT.	1	8.3	116+75.00	LT.	1	8.3
115+20.08	RT.	1	8.3				
115+44.92	RT.	1	8.3				
115+88.58	RT.	1	8.3				
116+50.00	RT.	1	8.3				
		RT. TOTAL=	105.0			LT. TOTAL=	66.6
						PROJECT TOTAL =	172

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION CU YD	EARTH EX 25% ADJ. CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE(+)/SHORTAGE(-) CU YD
SN 017-0033				
STA. 111+00.00 TO STA. 117+20.00	1224.0	918	310.8	+607.2
(1) STA. 00+20.00 TO STA. 01+40.00	202.0	151.5	16	+135.5
TOTAL	1224	918	311	+607.2

NOTES: (1) CHANNEL EXCAVATION IS SHOWN FOR INFORMATION PURPOSED ONLY, THE QUANTITY FOR CHANNEL EX. IS CONSIDERED UNSUITABLE FOR EMBANKMENT

TEMPORARY CONCRETE BARRIER

LOCATION FROM	LOCATION TO	SIDE	LENGTH (FEET)	QUANTITY (FEET)
111+69.30	112+93.75	RT/LT	125.0	125.0
112+93.75	115+06.25	LT	212.5	212.5
115+06.25	116+31.25	LT/RT	120.0	125.0
			TOTAL =	462.5

RELOCATE TEMPORARY CONCRETE BARRIER

LOCATION FROM	LOCATION TO	SIDE	LENGTH (FEET)	QUANTITY (FEET)
111+81.25	112+93.75	RT	112.5	112.5
112+93.75	115+06.25	RT	212.5	212.5
115+06.25	116+18.75	RT	112.5	112.5
			TOTAL =	437.5

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

LOCATION STATION	LOCATION SIDE	QUANTITY (EACH)
111+69.30	RT	1
116+31.25	RT	1
	TOTAL =	2

PERIMETER EROSION BARRIER

LOCATION				QUANTITY (FOOT)
SN 017-0033				
111+50.00	TO	112+00.00	LT. 46.2'	50.6
112+00.00	TO	113+25.00	LT. 44.7'	125.0
113+25.00	TO	113+50.00	LT. 43.5'	25.0
114+25.00	TO	114+50.00	LT. 62.8'	25.2
114+50.00	TO	114+75.00	LT. 61.2'	25.1
114+75.00	TO	115+50.00	LT. 56.6'	75.1
115+50.00	TO	115+75.00	LT. 48.2'	26.4
111+39.50	TO	111+78.00	RT. 78.0'	48.7
111+78.00	TO	112+02.00	RT. 86.7'	24.0
112+02.00	TO	112+22.10	RT. 72.4'	24.6
112+22.10	TO	113+50.00	RT. 72.0'	127.9
			PROJECT TOTAL =	578

IMPACT ATTENUATORS, RELOCATE TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

LOCATION STATION	LOCATION SIDE	QUANTITY (EACH)
111+81.25	LT	1
116+18.75	LT	1
	TOTAL =	2

REV. - MS

SEEDING SCHEDULE

SN 017-0033		SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING
LOCATION	QUANTITY (SQ. FT.)	QUANTITY (ACRE)	QUANTITY (POUND)	QUANTITY (POUND)	QUANTITY (POUND)	QUANTITY (TON)	QUANTITY (ACRE)	QUANTITY (POUND)
AREA 1	4,031.95	0.09	9.0	9.0	9.0	0.19	0.09	28.0
AREA 2	5,710.66	0.13	12.0	12.0	12.0	0.26	0.13	41.0
AREA 3	5,061.85	0.12	11.5	11.5	11.5	0.23	0.12	40.0
AREA 4	4,778.71	0.11	10.0	10.0	10.0	0.22	0.11	34.0
AREA 5	420.28	0.01	1.0	1.0	1.0	0.02	0.01	3.5
AREA 6	432.44	0.01	1.0	1.0	1.0	0.02	0.01	3.5
	PROJECT TOTAL=	0.5	45	45	45	1	0.5	150

NOTE: SEEDING AREAS ARE SHOWN IN THE PLANS

GUARDRAIL REMOVAL

LOCATION				LENGTH (FOOT)	QUANTITY (FOOT)
SN 017-0033					
112+77.89	TO	113+78.59	LT.	100.7	100.7
113+40.64	TO	113+78.59	RT.	38.0	38.0
114+21.05	TO	115+22.01	RT.	101.0	101.0
114+21.05	TO	115+21.69	LT.	100.6	100.6
				PROJECT TOAL	340

TRAFFIC BARRIER TERMINAL, TYPE 6

LOCATION				QUANTITY (EACH)
SN 017-0033				
113+08.60	TO	113+45.50	RT.	1.0
113+08.60	TO	113+45.50	LT.	1.0
114+54.50	TO	114+91.40	RT.	1.0
114+54.50	TO	114+91.40	LT.	1.0
			PROJECT TOTAL=	4.0

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

LOCATION				QUANTITY (EACH)
SN 017-0033				
112+33.60	TO	112+83.60	RT.	1.0
112+58.60	TO	113+08.60	LT.	1.0
114+91.40	TO	115+41.40	RT.	1.0
115+16.40	TO	115+66.40	LT.	1.0
			PROJECT TOTAL=	4.0

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS

LOCATION				QUANTITY (FOOT)
SN 017-0033				
112+83.60	TO	113+08.60	RT.	25.0
114+91.40	TO	115+16.40	LT.	25.0
			PROJECT TOAL	50.0

GUARDRAIL REFLECTORS, TYPE B

LOCATION	CRYSTAL (BI-DIRECT) (EACH)	TOTAL QUANTITY (EACH)
SN 017-0033		
SW QUADRANT	4	4
NW QUADRANT	4	4
NE QUADRANT	4	4
SE QUADRANT	4	4
	TOTAL =	16

FURNISHING AND ERECTING RIGHT OF WAY MARKERS

LOCATION	QUANTITY (EACH)
114+50.00/65.0' LT.	1
115+00.00/65.0' LT.	1
116+75.00/50.0' LT.	1
TOTAL =	3

PAVING SCHEDULE

LOCATION			LENGTH	PAVEMENT WIDTH	SHOULDER WIDTH	AREA	PAVED SHOULDER REMOVAL	EXCAVATING & GRADING EXISTING SHOULDER	PAVEMENT BREAKING	GRANULAR EMBANKMENT, SPECIAL	HOT-MIX ASPHALT SHOULDERS	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL, 1.5"	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	AGGREGATE SHOULDERS, TYPE B 6"	AGGREGATE WEDGE SHOULDER, TYPE B
STATION	TO	STATION	FEET	FEET	FEET	SQ FT	SQ YD	UNIT	SQ YD	CU YD	TON	POUND	POUND	SQ YD	TON	TON	SQ YD	TON
SN 017-0032																		
204+00.00	TO	204+10.29	10.3	24.0	3.8	286.2	3.4	0.2			2.0		12.3	27.4		3.1	7.4	1.0
204+10.29	TO	205+54.84	144.5	24.0	6.0	4,336.5	48.2	2.9			43.2		173.5	385.5		43.2	104.4	
205+54.84	TO	206+15.83	61.0	24.0	6.0	1,829.7	20.3	1.2			18.2		73.2	162.6	20.5	18.2	54.2	
206+15.83	TO	206+50.16	34.3	24.0	6.0	1,029.9	11.4	0.7			10.3		82.4	123.1	26.9	10.3	30.5	
206+50.16	TO	206+62.00	11.8	24.0	6.0	355.2	3.9				3.5		35.5	40.5			10.5	
206+62.00	TO	206+77.19	15.2	24.0	6.0	455.7					4.5		45.6	84.4			13.5	
206+77.19	TO	207+08.85	31.7	24.0	6.0	949.8			95.0	17.8	11.4	245.4	95.0				28.1	
207+08.85	TO	207+35.77	26.9	24.0	6.0	807.6			80.8	32.1	11.7	208.6	48.5				20.2	
207+35.77	TO	207+38.77	3.0	24.0	6.3	90.8			9.0	4.5	1.4	23.6	5.4				2.7	
207+38.77	TO	207+65.77	27.0	24.0	11.0	945.0			81.0	67.6	14.8	273.4	48.6				24.0	
207+65.77	TO	207+68.77	3.0	24.0	15.8	119.3			9.0	9.4	2.4	30.8	5.4				2.7	
207+68.77	TO	208+36.48	67.7	24.0	16.0	2,708.4			203.1	293.6	53.9	694.0	121.9				60.2	
208+36.48	TO	208+61.67	25.2						75.6	125.7							22.4	
208+61.67	TO	208+80.93	19.3						57.8	96.9							8.6	
208+80.93	TO	208+91.67	10.7														4.8	
208+91.67	TO	209+82.34	90.7							STRUCTURE OMISSION								
209+82.34		209+93.07	10.7														4.8	
209+93.07		210+12.34	19.3						57.8	94.6							17.1	
210+12.34		210+37.53	25.2						75.6	120.0							22.4	
210+37.53		211+05.24	67.7	24.0	16.0	2,708.4			203.1	276.1	53.9	694.0	121.9				50.8	
211+05.24		211+08.24	3.0	24.0	15.8	119.3			9.0	8.0	2.4	30.4	5.4				2.7	
211+08.24		211+35.24	27.0	24.0	11.0	945.0			81.0	44.3	14.8	212.6	48.6				24.0	
211+35.24		211+38.24	3.0	24.0	6.3	90.8			9.0	3.5	0.9	23.3	5.4				2.7	
211+38.24		211+55.06	16.8	24.0	6.0	504.6	5.6		50.5	17.7	5.0	130.4	30.3	44.9			15.1	
211+55.06		211+86.56	31.5	24.0	6.0	945.0	10.5		94.5	17.8	9.4	244.1	94.5	84.0			27.8	
211+86.56		212+01.80	15.2	24.0	6.0	457.2	5.1				4.6		45.7	40.6	11.9		13.5	
212+01.80		212+13.39	11.6	24.0	6.0	347.7	3.9				3.5		34.8	30.9	3.9	3.5	10.3	
212+13.39		212+46.84	33.5	24.0	6.0	1,003.5	11.2	0.7			10.0		80.3	89.2		10.0	29.7	
212+46.84		213+01.52	54.7	24.0	6.0	1,640.4	18.2	1.1			16.3		65.6	145.8		16.3	48.6	
213+01.52		214+65.00	163.5	24.0	6.0	4,904.4	54.5	3.3			48.8		196.2	435.9		48.8	145.3	
214+65.00		214+75.00	10.0	24.0	4.5	285.0	3.3	0.2			2.2		12.0	26.7		3.0	8.9	1.0
PROJECT TOTALS =			1,075			27,865	200	10	1,192	1,230	349	2,811	1,488	1,722	63	156	818	2

PAVEMENT MARKING SCHEDULE

STATION	TO	STATION	LENGTH (FEET)	TEMPORARY PAVEMENT MARKING LINE-4" (YELLOW SKIP-DASH) (FOOT)	TEMPORARY PAVEMENT MARKING LINE-4" (WHITE) (FOOT)	PAINT PAVEMENT MARKING LINE-4" (YELLOW SKIP-DASH) (FOOT)	PAINT PAVEMENT MARKING LINE-4" (WHITE) (FOOT)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (EACH)	RAISED REFLECTIVE PAVEMENT MARKERS (BI-DIRECT AMBER) (EACH)	TEMPORARY PAVEMENT MARKING REMOVAL (SQ FT)
SN 017-0032										
204+00.00	TO	208+91.67	491.7	122.9	983.3	122.9	983.3	6	6	368.8
208+91.67	TO	209+82.34	90.7	22.7	181.3	22.7	181.3			68.0
209+82.34	TO	214+75.00	492.7	123.2	985.3	123.2	985.3	6	6	369.5
PROJECT TOTALS	=			269	2,150	269	2,150	12	12	806

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION CU YD	EARTH EX 25% ADJ. CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE(+)/SHORTAGE(-) CU YD
SN 017-0032				
STA. 204+00.00 TO STA. 214+75.00	1147.0	860.2	1277.8	-417.6
(1) STA. 0+00.00 TO STA. 1+40.00	292.0	219.0	26.0	+193
TOTAL	1147.0	860	1278	-417.6

NOTES: (1) CHANNEL EXCAVATION IS SHOWN FOR INFORMATION PURPOSED ONLY, THE QUANTITY FOR CHANNEL EX. IS CONSIDERED UNSUITABLE FOR EMBANKMENT

TEMPORARY DITCH CHECKS

LOCATION		QUANTITY (EACH)	QUANTITY (FOOT)	LOCATION		QUANTITY (EACH)	QUANTITY (FOOT)
SN 017-0032				SN 017-0033			
206+25.00	RT.	1	6.0	207+50.00	LT.	1	12.9
207+61.02	RT.	1	13.1	208+64.31	LT.	1	17.4
208+17.56	RT.	1	17.8	211+92.06	LT.	1	21.0
208+57.37	RT.	1	18.9	212+76.56	LT.	1	21.0
208+89.55	RT.	1	19.4	213+25.00	LT.	1	8.4
209+08.83	RT.	1	20.5				
209+23.46	RT.	1	21.0				
209+78.65	RT.	1	9.7				
210+50.00	RT.	1	9.7				
		RT. TOTAL=	136.1			LT. TOTAL=	80.7
						PROJECT TOTAL =	217

PERIMETER EROSION BARRIER

LOCATION	QUANTITY (FOOT)
SN 017-0032	
STA. 204+00.00/RT. 28.0' TO STA. 204+36.82/RT. 28.0'	36.8
STA. 204+36.82/RT. 28.0' TO STA. 204+49.95/RT. 33.0'	14.0
STA. 204+49.95/RT. 33.0' TO STA. 205+05.75/RT. 28.0'	56.1
STA. 205+05.75/RT. 28.0' TO STA. 206+00.00/RT. 28.0'	94.2
STA. 206+00.00/RT. 28.0' TO STA. 206+22.69/RT. 29.1'	22.7
STA. 206+00.00/RT. 39.0' TO STA. 206+24.84/RT. 39.1'	24.8
STA. 206+24.84/RT. 39.1' TO STA. 206+47.62/RT. 39.8'	22.8
STA. 206+47.62/RT. 39.8' TO STA. 209+01.32/RT. 82.1'	257.2
STA. 209+01.32/RT. 82.1' TO STA. 209+38.26/RT. 58.7'	43.8
STA. 210+25.00/RT. 46.7' TO STA. 210+50.02/RT. 46.7'	25.0
STA. 210+50.02/RT. 46.7' TO STA. 210+61.79/RT. 44.1'	12.1
STA. 210+61.79/RT. 44.1' TO STA. 211+25.06/RT. 43.3'	63.3
STA. 211+25.06/RT. 43.3' TO STA. 211+50.60/RT. 40.3'	25.7
STA. 211+50.60/RT. 40.3' TO STA. 212+25.69/RT. 39.6'	75.1
STA. 212+25.69/RT. 39.6' TO STA. 213+00.00/RT. 33.5'	74.7
STA. 213+00.00/RT. 33.5' TO STA. 214+24.94/RT. 34.1'	124.8
STA. 214+24.94/RT. 34.1' TO STA. 214+52.01/RT. 22.7'	29.4
STA. 204+00.00/LT. 25.3' TO STA. 204+23.87/LT. 25.3'	23.9
STA. 204+23.87/LT. 25.3' TO STA. 204+54.95/LT. 40.0'	34.4
STA. 204+54.95/LT. 40.0' TO STA. 207+00.00/LT. 40.0'	245.1
STA. 207+00.00/LT. 40.0' TO STA. 207+50.00/LT. 45.0'	50.3
STA. 207+50.00/LT. 45.0' TO STA. 207+75.00/LT. 50.0'	25.5
STA. 207+75.00/LT. 66.0' TO STA. 208+25.00/LT. 84.0'	53.1
STA. 208+25.00/LT. 84.0' TO STA. 208+75.00/LT. 84.0'	50.0
STA. 209+75.47/LT. 38.2' TO STA. 209+99.98/LT. 35.9'	24.6
STA. 209+99.98/LT. 35.9' TO STA. 211+00.24/LT. 37.1'	100.3
STA. 211+00.24/LT. 37.1' TO STA. 211+23.92/LT. 35.6'	23.7
STA. 211+23.92/LT. 35.6' TO STA. 211+44.99/LT. 46.7'	23.6
STA. 211+44.99/LT. 46.7' TO STA. 211+44.99/LT. 65.4'	18.8
STA. 211+44.99/LT. 65.4' TO STA. 211+75.26/LT. 62.9'	30.4
STA. 211+75.26/LT. 62.9' TO STA. 212+00.82/LT. 62.4'	24.9
STA. 212+00.82/LT. 62.4' TO STA. 212+50.24/LT. 57.3'	50.4
STA. 212+50.24/LT. 57.3' TO STA. 213+01.08/LT. 54.1'	50.9
STA. 213+01.08/LT. 54.1' TO STA. 213+39.25/LT. 40.0'	40.7
PROJECT TOTAL	1,873

REV. - MS

SEEDING SCHEDULE

SN 017-0032

LOCATION	QUANTITY (SQ. FT.)	SEEDING, CLASS 2 QUANTITY (ACRE)	NITROGEN FERTILIZER NUTRIEN QUANTITY (POUND)	PHOSPHOROUS FERTILIZER NUTRIENT QUANTITY (POUND)	POTASSIUM FERTILIZER NUTRIENT QUANTITY (POUND)	AGRICULTURAL GROUND LIMESTONE QUANTITY (TON)	MULCH, METHOD 2 QUANTITY (ACRE)	TEMPORARY EROSION CONTROL SEEDING QUANTITY (POUND)
AREA 1	9,126.45	0.21	19.0	19.0	19.0	0.4	0.21	64.5
AREA 2	621.00	0.01	1.5	1.5	1.5	0.1	0.01	5.0
AREA 3	1,062.12	0.02	3.0	3.0	3.0	0.1	0.02	8.5
AREA 4	5,289.17	0.12	11.5	11.5	11.5	0.2	0.12	37.0
AREA 5	5,705.86	0.13	12.5	12.5	12.5	0.3	0.13	41.0
AREA 6	2,326.07	0.05	5.0	5.0	5.0	0.1	0.05	19.0
AREA 7	9,126.45	0.21	19.5	19.5	19.5	0.4	0.21	64.5
	PROJECT TOTAL=	0.8	72	72	72	1.6	0.8	240

NOTE: SEEDING AREAS ARE SHOWN IN THE PLANS

GUARDRAIL REMOVAL

LOCATION				LENGTH (FOOT)	QUANTITY (FOOT)
SN 017-0032					
207+87.14	TO	208+67.61	LT.	80.5	80.5
208+05.19	TO	209+05.31	RT.	100.1	100.1
209+65.00	TO	210+64.55	RT.	99.5	99.5
209+82.65	TO	210+82.85	LT.	100.2	100.2
				PROJECT TOAL	380

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

LOCATION				QUANTITY (EACH)
SN 017-0032				
207+75.80	TO	208+25.80	RT.	1.0
207+78.80	TO	208+28.80	LT.	1.0
210+48.20	TO	210+98.20	LT.	1.0
210+45.20	TO	210+95.20	RT.	1.0
			PROJECT TOTAL=	4.0

TRAFFIC BARRIER TERMINAL, TYPE 6

LOCATION				QUANTITY (EACH)
SN 017-0032				
208+50.80	TO	208+87.70	RT.	1.0
208+28.80	TO	208+65.70	LT.	1.0
209+96.30	TO	210+23.20	LT.	1.0
210+08.30	TO	210+95.20	RT.	1.0
			PROJECT TOTAL=	4.0

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS

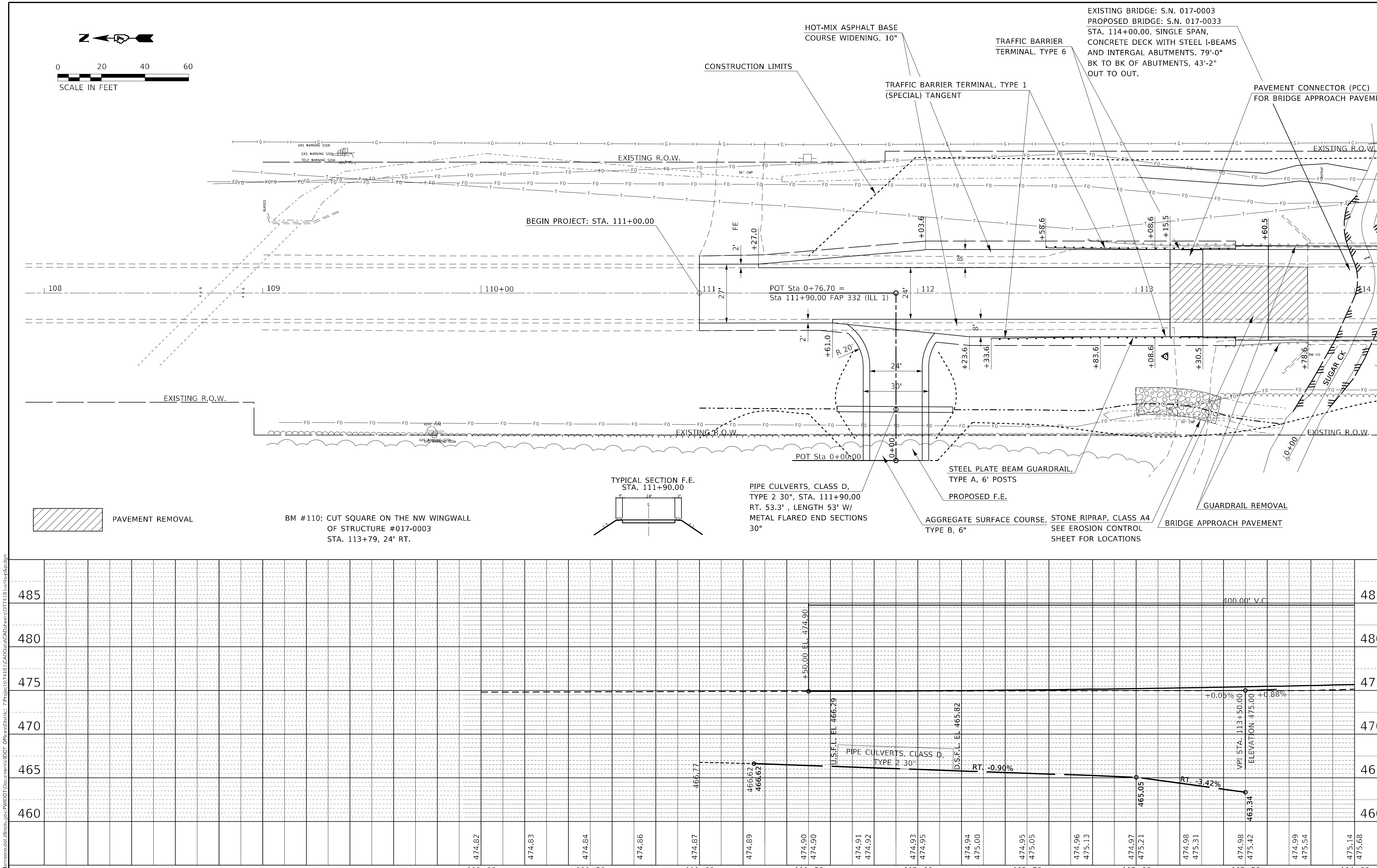
LOCATION				QUANTITY (FOOT)
SN 017-0032				
208+25.80	TO	208+50.80	RT.	25.0
210+23.20	TO	210+48.20	LT.	25.0
			PROJECT TOAL	50.0

GUARDRAIL REFLECTORS, TYPE B

LOCATION	CRYSTAL (BI-DIRECT) (EACH)	TOTAL QUANTITY (EACH)
SN 017-0032		
SW QUADRANT	4	4
NW QUADRANT	4	4
NE QUADRANT	4	4
SE QUADRANT	4	4
TOTAL =		16

FURNISHING AND ERECTING RIGHT OF WAY MARKERS

LOCATION	QUANTITY (EACH)
206+00.00/40.0' RT.	1
206+00.00/60.0' LT.	1
208+00.00/90.0' LT.	1
209+00.00/90.0' RT.	1
210+00.00/90.0' LT.	1
210+25.00/90.0' RT.	1
212+25.00/40.0' RT.	1
212+50.00/70.0' LT.	1
214+00.00/40.0' LT.	1
TOTAL =	9



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
S.N. 017–0033

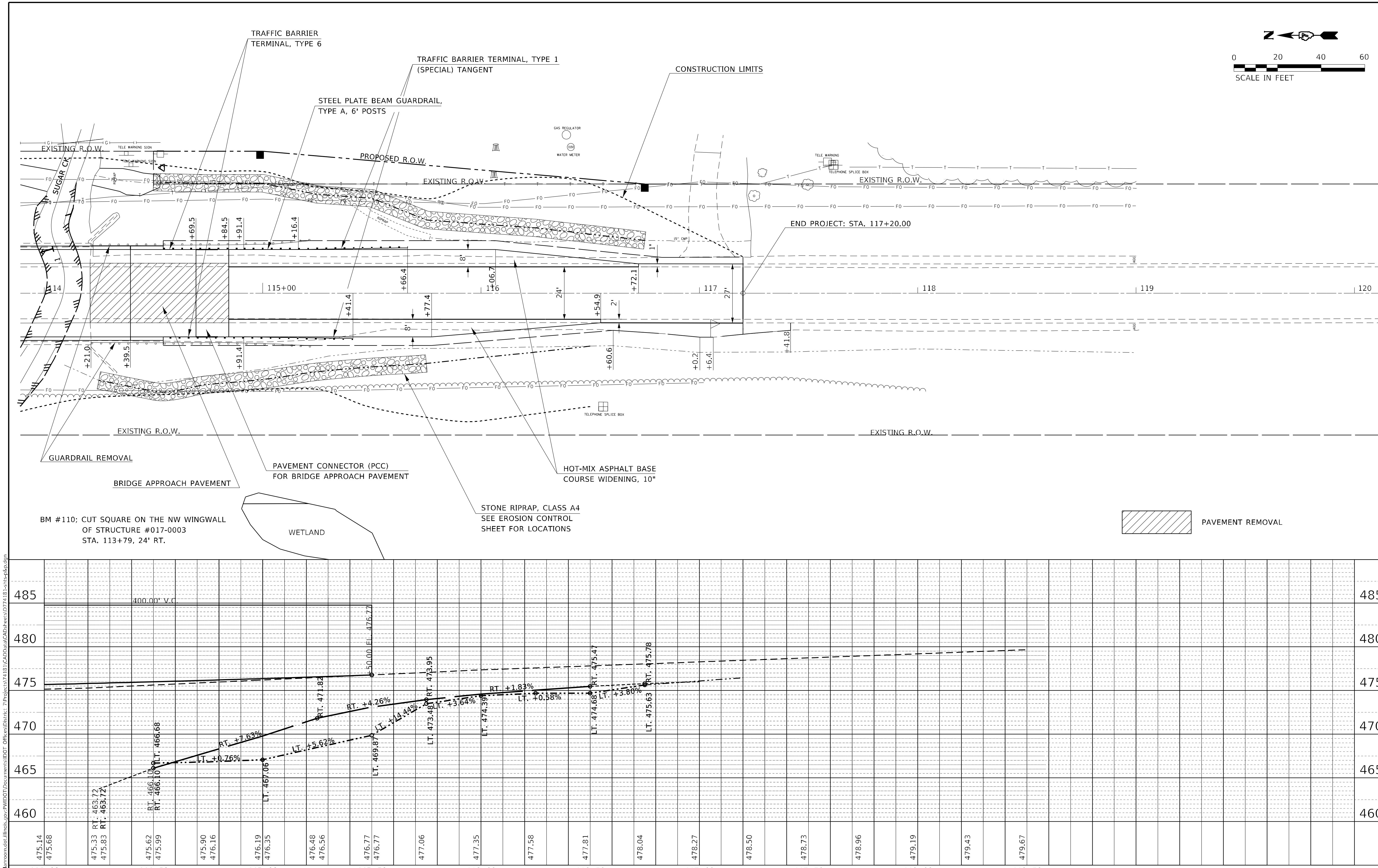
SCALE: 20H:5V | SHEET 1 OF 2 SHEETS | STA. 108+00.00 TO STA. 114+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	15

CONTRACT NO. 74181

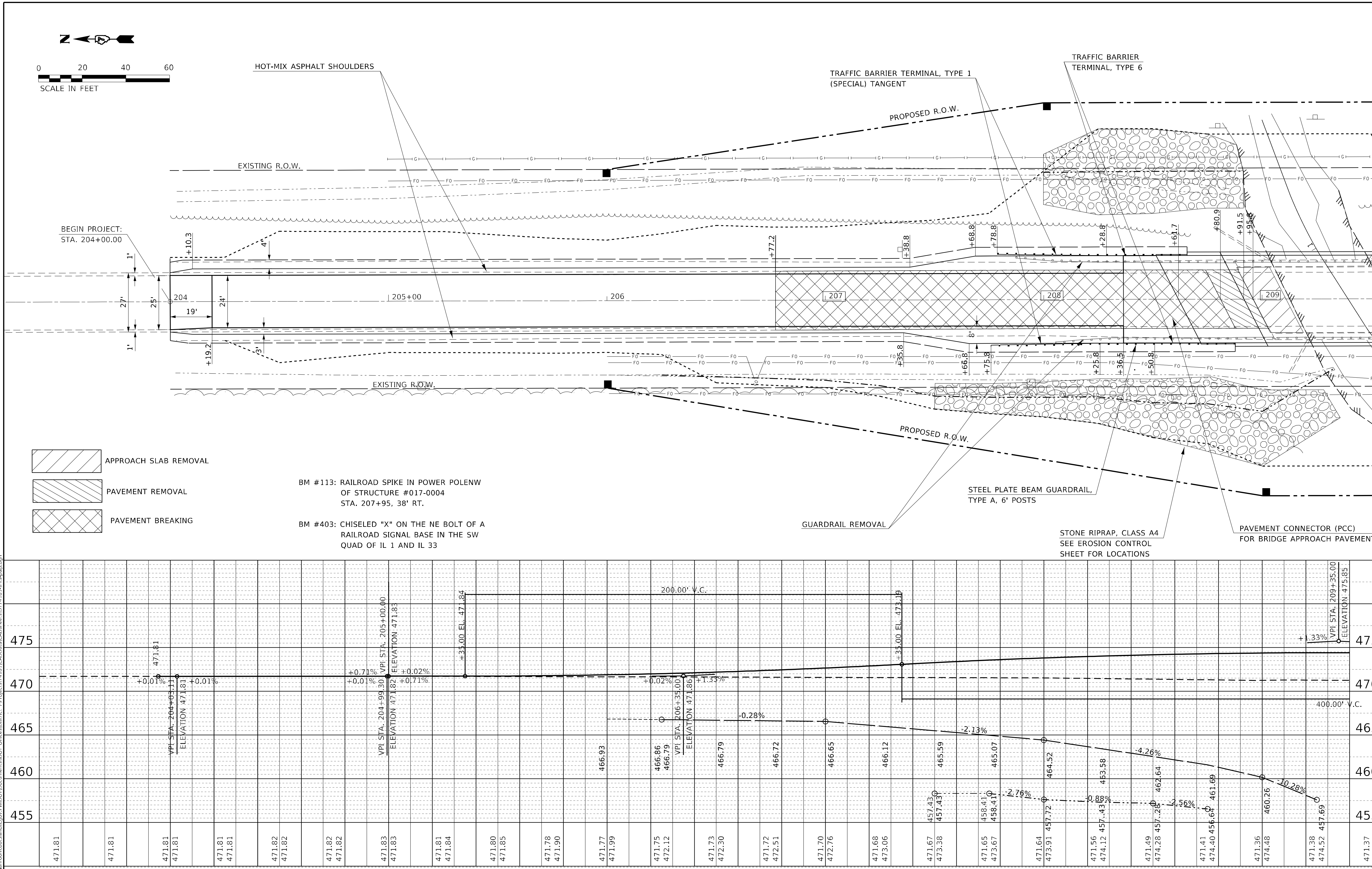
ILLINOIS | FED. AID PROJECT

MODEL: Default
FILE NAME: pw:\\illinoisdot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADD\Data\CADSheets\D774181-sht-s-f4p.dgn



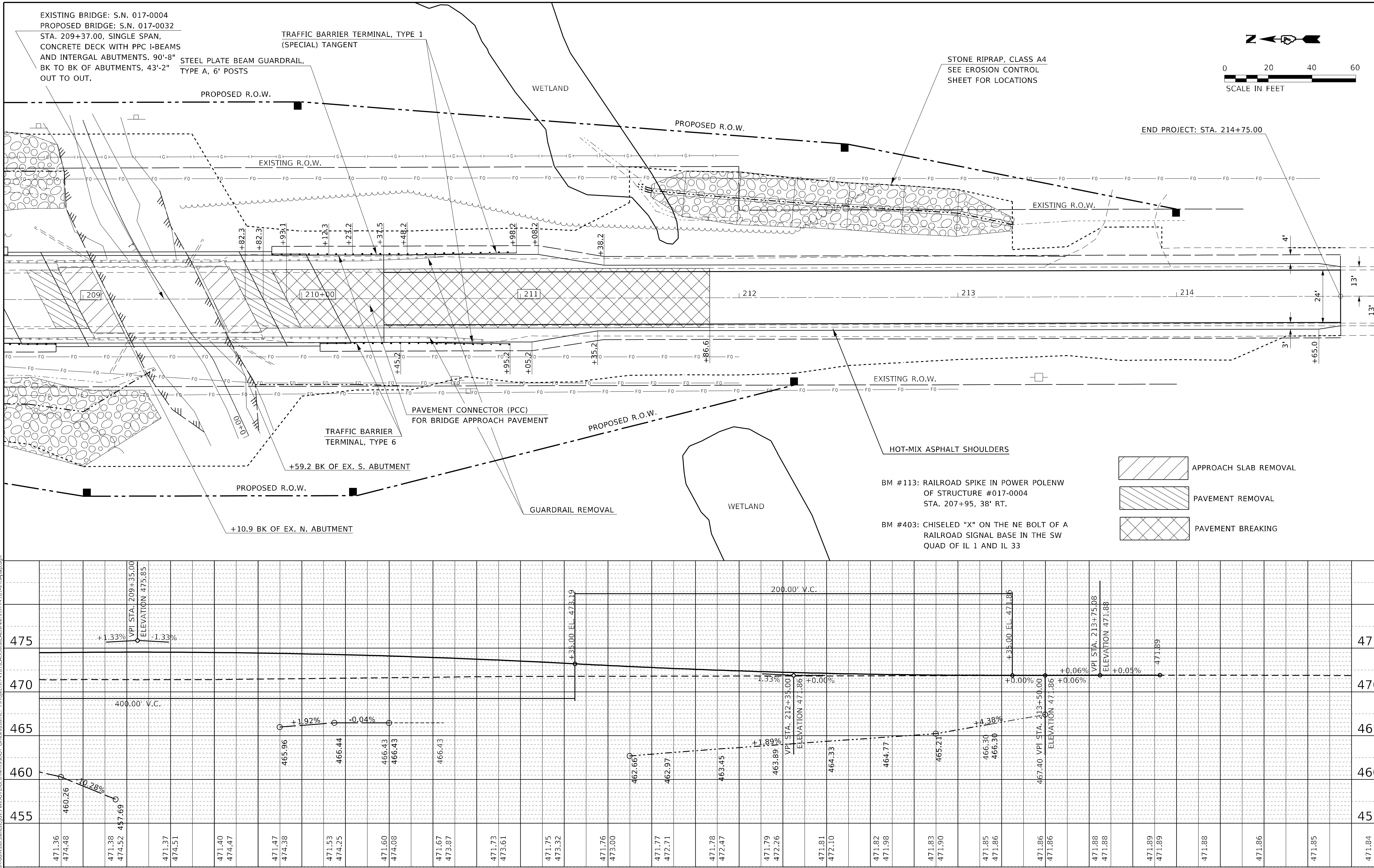
USER NAME = steffenmk	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PLAN & PROFILE S.N. 017-0033**
	DRAWN	REVISED -		
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 20H:5V SHEET 2 OF 2 SHEETS STA. 114+00.00 TO STA. 120+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	16
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE S.N. 017–0032	
	DRAWN -	REVISED -			
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -			
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 20H:5V SHEET 1 OF 2 SHEETS STA. 203+35.00 TO STA. 209+35.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	17
CONTRACT NO. 74181				
ILLINOIS FED. AID PROJECT				



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
S.N. 017-0032

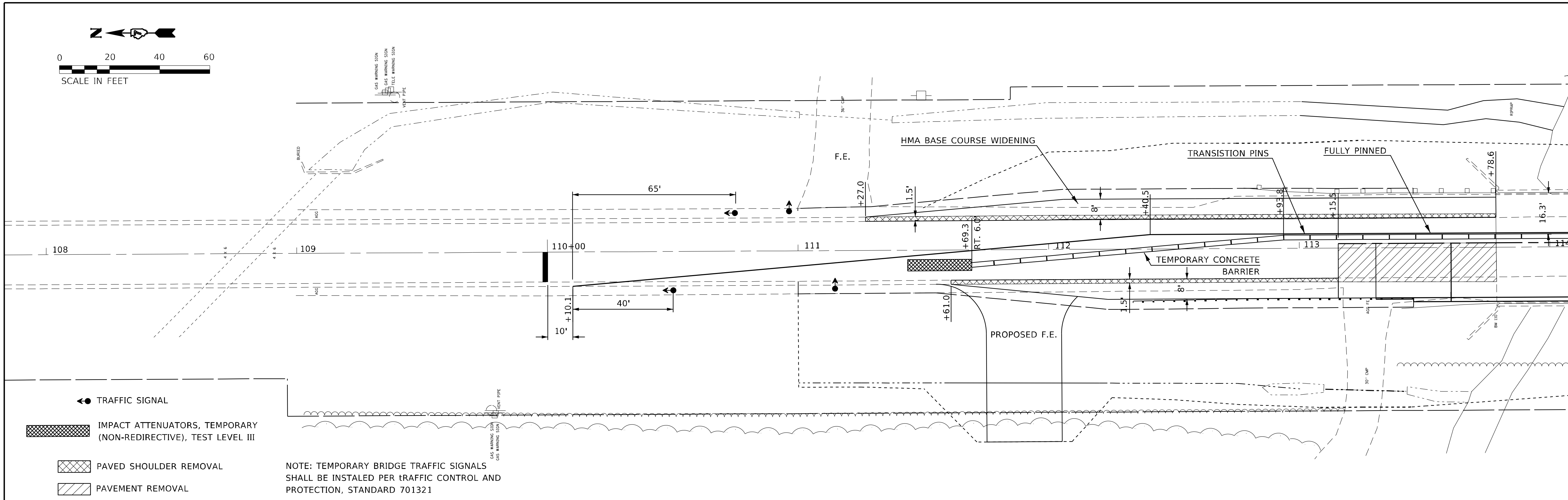
SCALE: 20H:5V | SHEET 2 OF 2 SHEETS | STA. 208+50.00 TO STA. 214+50.00

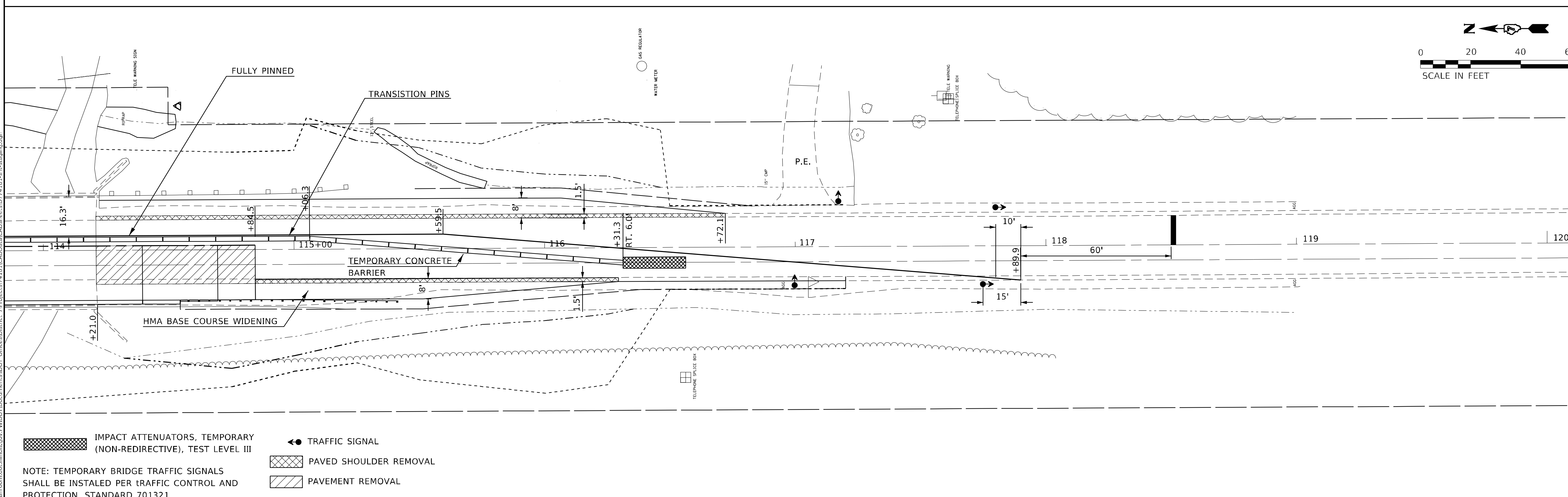
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	18

CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT

MODEL: Default





MODEL: Default
FILE NAME: pw:\\plannoom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADProjects\D774181-sht-staging.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

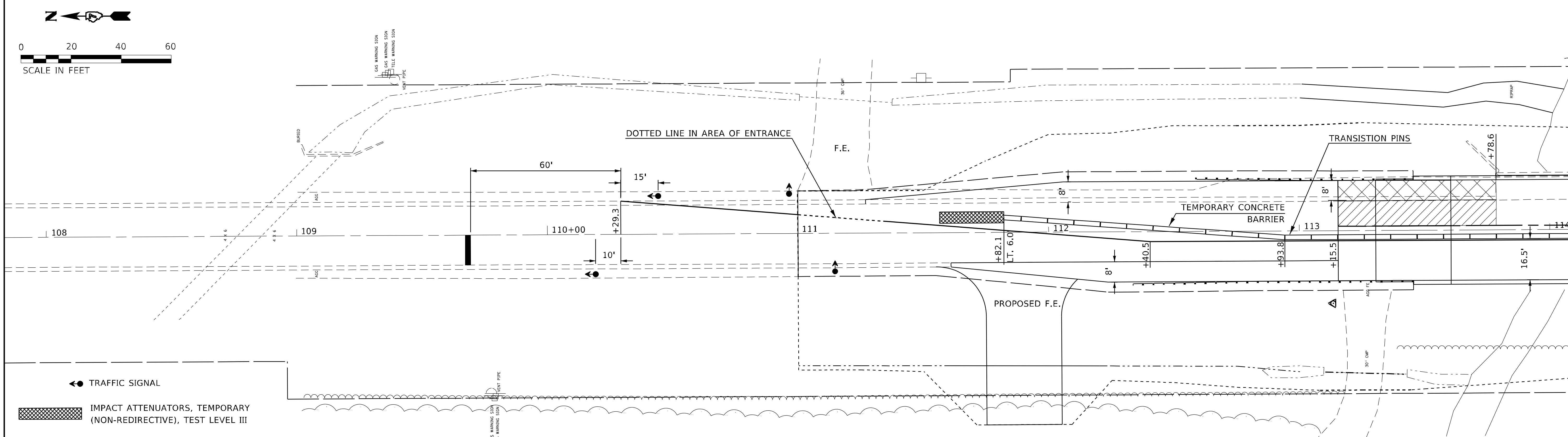
TRAFFIC CONTROL–STAGE I
S.N. 017–0033

SCALE: 20 | SHEET 1 OF 3 SHEETS | STA. 108+00.00 TO STA. 120+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	19

CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT



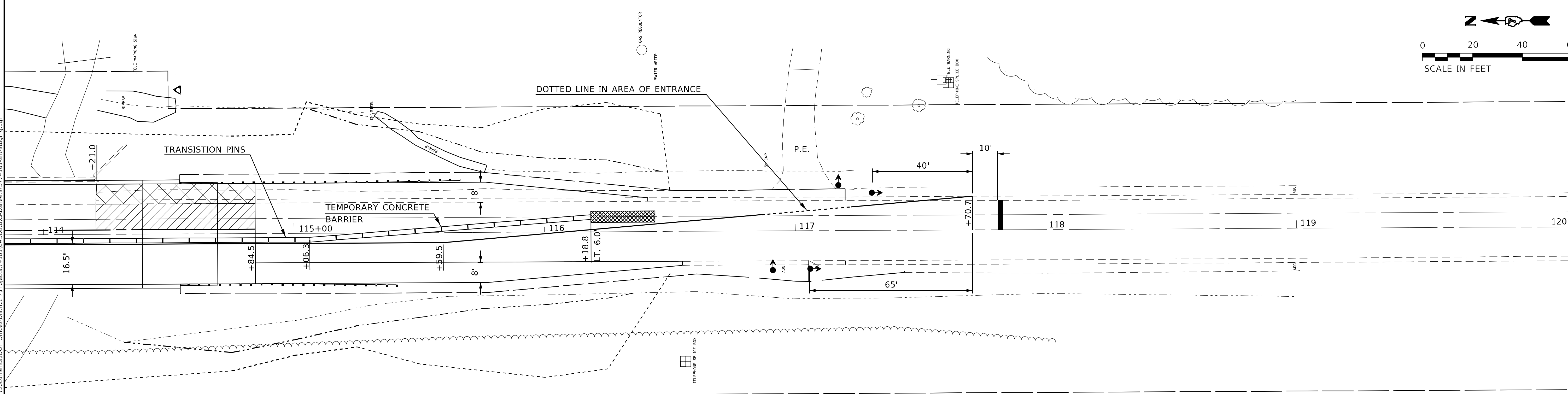
TRAFFIC SIGNAL

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL III

PAVED SHOULDER REMOVAL

PAVEMENT REMOVAL

NOTE: TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE INSTALED PER TRAFFIC CONTROL AND PROTECTION, STANDARD 701321



IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL III

TRAFFIC SIGNAL

PAVED SHOULDER REMOVAL

PAVEMENT REMOVAL

NOTE: TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE INSTALED PER tRAFFIC CONTROL AND PROTECTION, STANDARD 701321

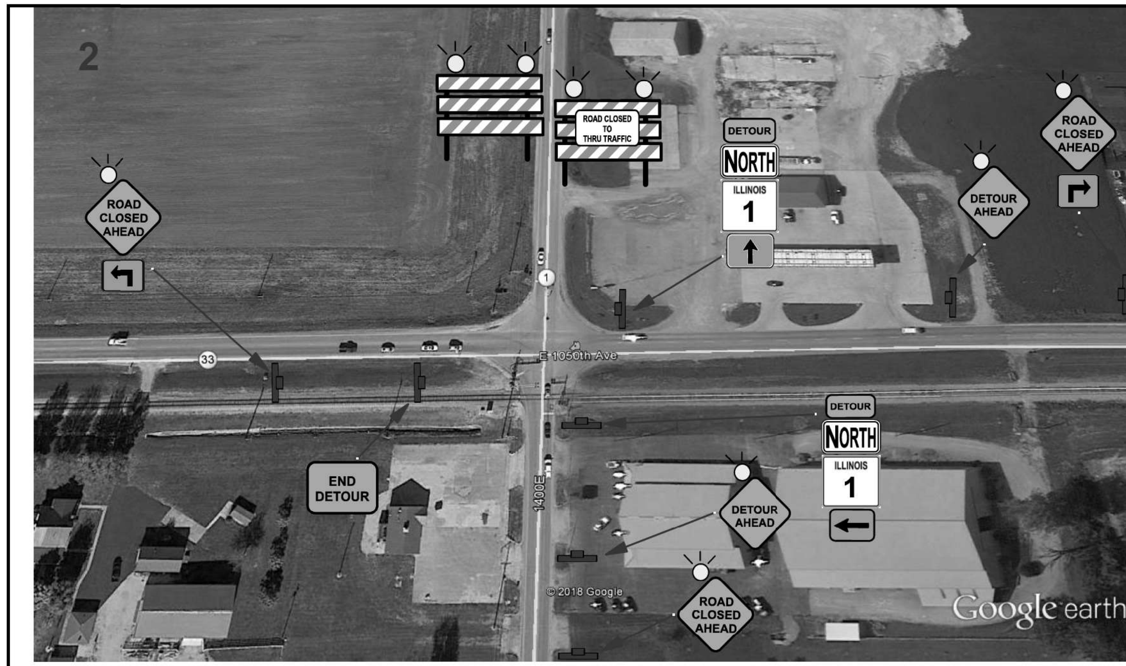
USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

TRAFFIC CONTROL–STAGE II
S.N. 017–0033

SCALE: 20 | SHEET 2 OF 2 SHEETS | STA. 108+00.00 TO STA. 120+00.00

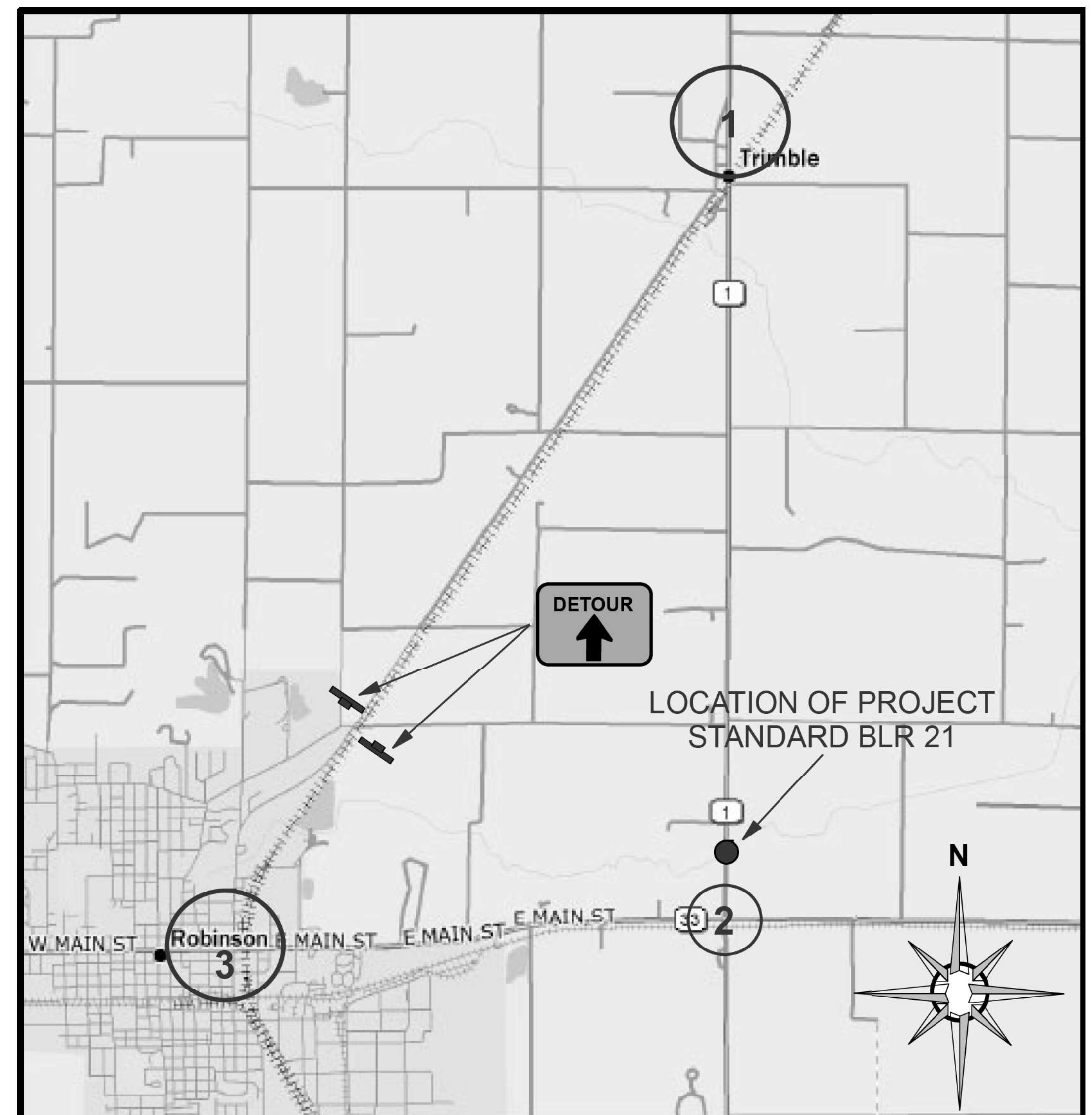
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	20
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\\plannoom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-staging.dgn



SIGN LEGEND

ROAD CLOSED AHEAD W20-3(O)-48	END DETOUR M4-8a(O)-3024	M5-2R(O)-3018	M5-1L(O)-3018	M5-1R(O)-3018	DETOUR M4-8-2412	SOUTH M3-3-3015	ROAD CLOSED TO THRU TRAFFIC R11-4-6030
DETOUR AHEAD W20-2(O)-48	DETOUR M4-9(O)-3024	M6-3(O)-3018	M6-1L(O)-3018	M6-1R(O)-3018	NORTH M3-1-3015	ILLINOIS 1 M1-I100a-3024	TYPE III BARRICADE



MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-detour location.dgn

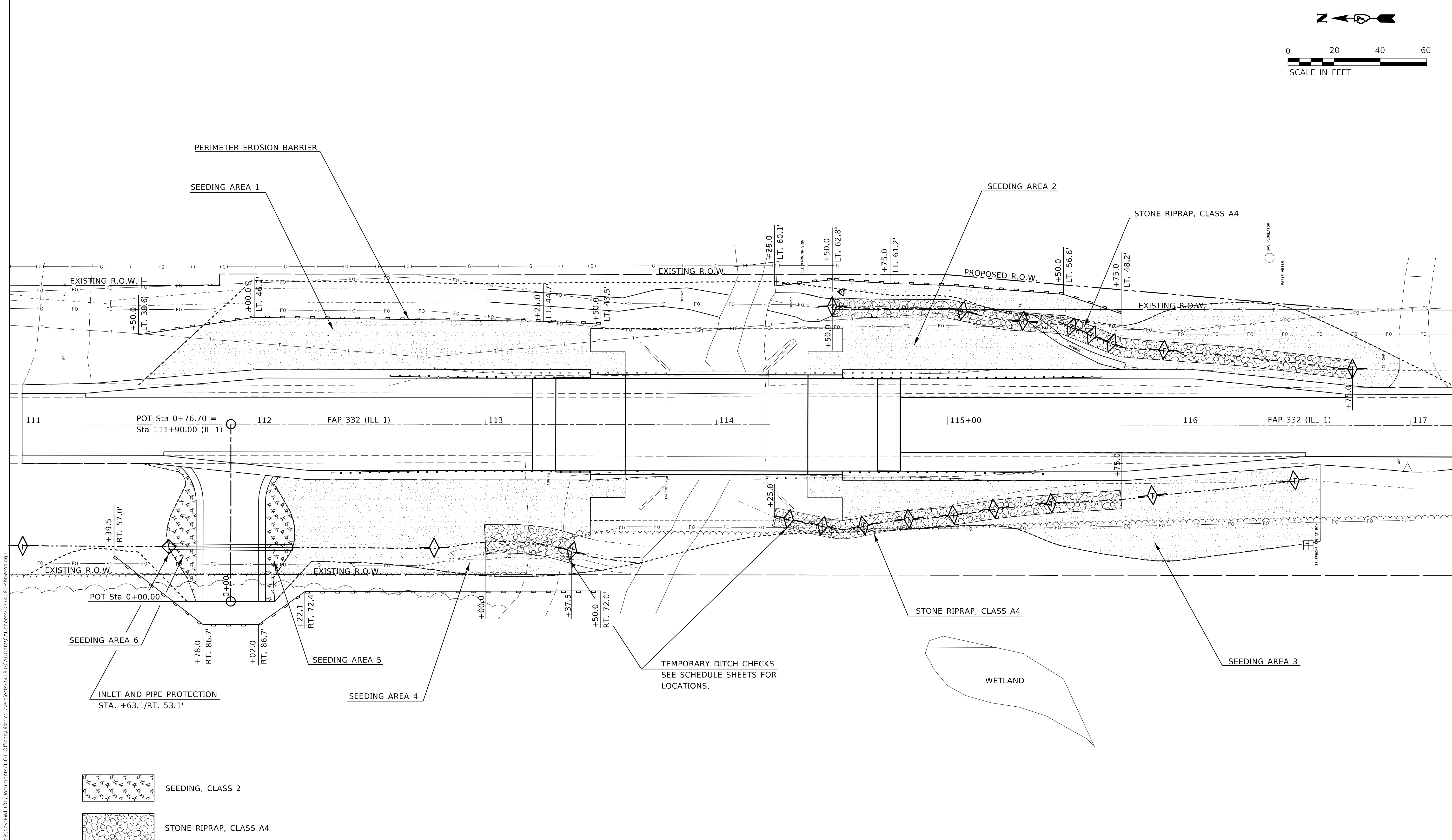
USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TC&P STANDARD BLR 21
S.N. 017–0032

SCALE: NA | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	21
		CONTRACT NO. 74181		
	ILLINOIS	FED. AID PROJECT		



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

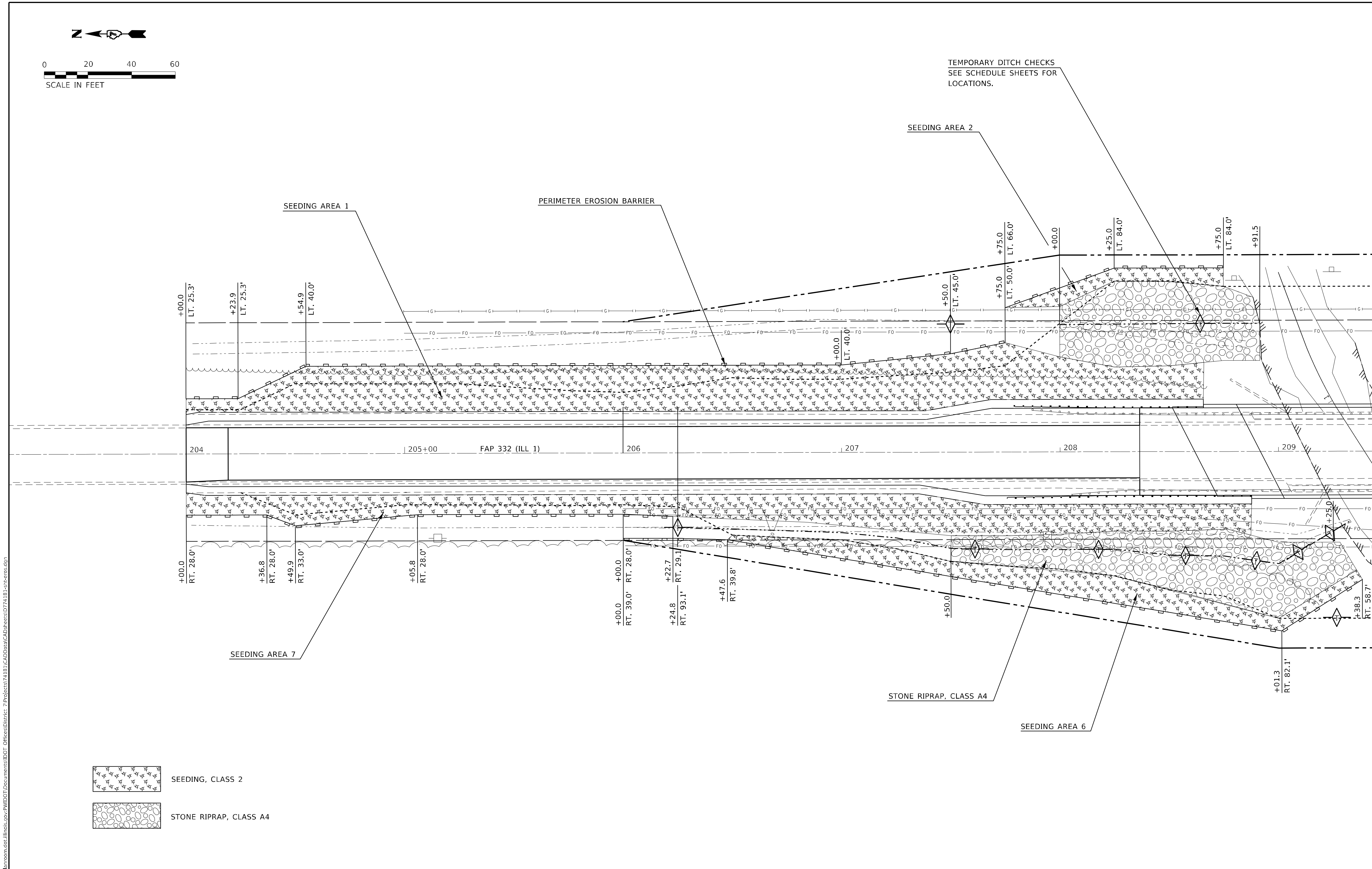
EROSION CONTROL PLAN
S.N. 017–0033

SCALE: 20 | SHEET 1 OF 1 SHEETS | STA. 111+00.00 TO STA. 117+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	22

CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT



MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-eros.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

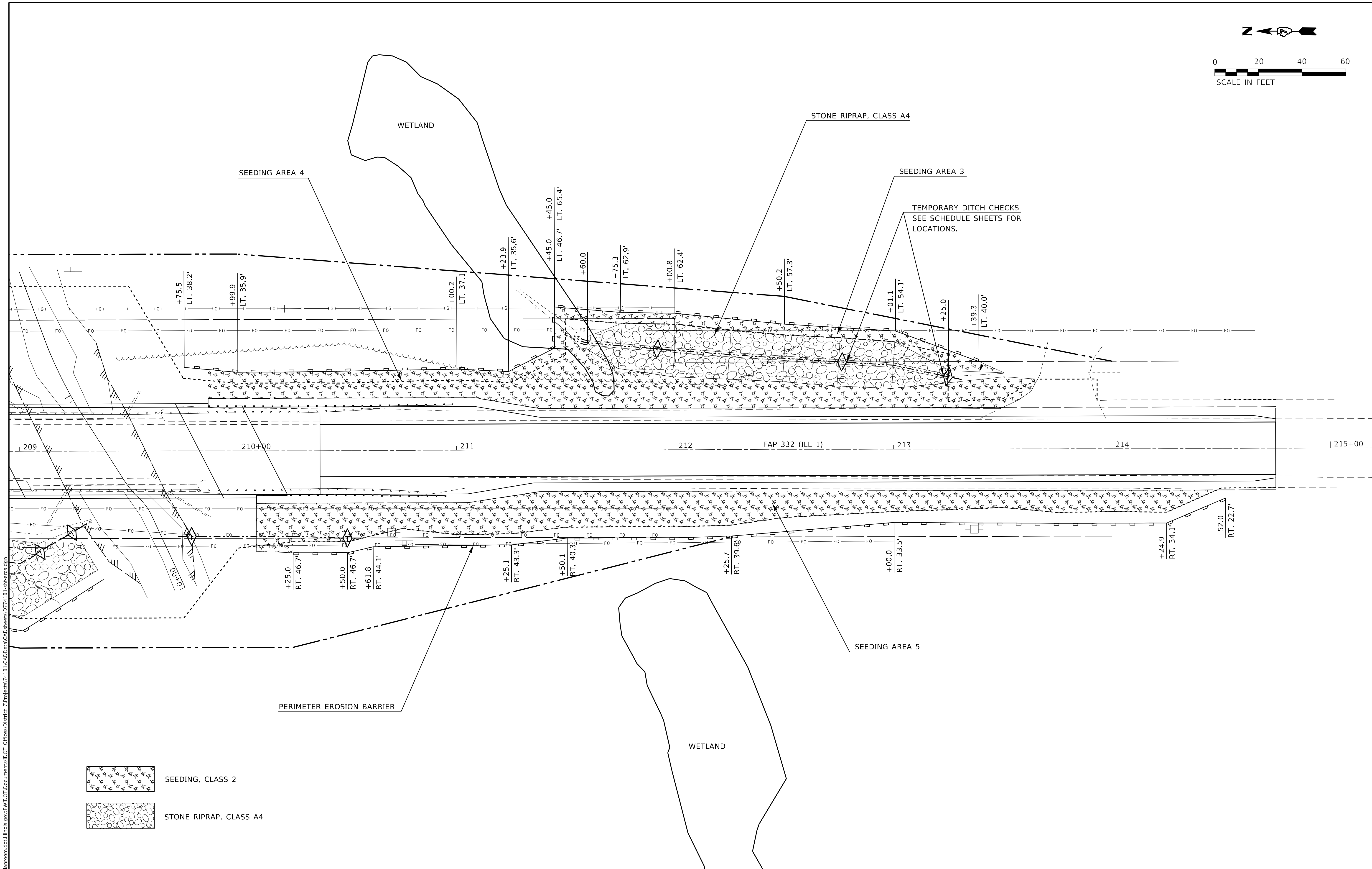
EROSION CONTROL PLAN
S.N. 017–0032

SCALE: 20 | SHEET 1 OF 2 SHEETS | STA. 230+50.00 TO STA. 209+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	23

CONTRACT NO. 74181

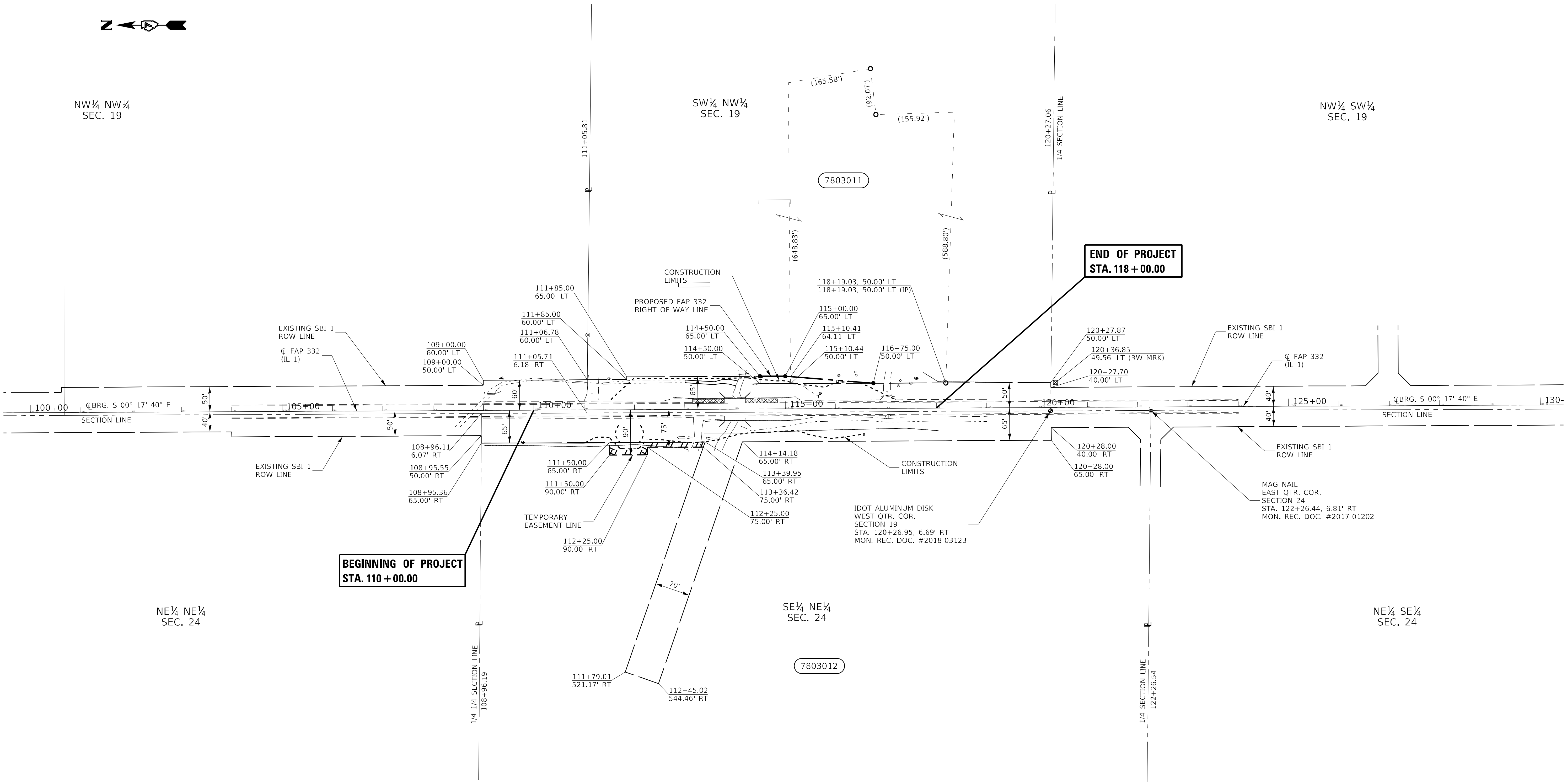
ILLINOIS | FED. AID PROJECT



MODEL: Default

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN S.N. 017–0032	F.A.P. RTE. 332 / SECTION (21-Y, 21-X)B-1 / COUNTY CRAWFORD / TOTAL SHEETS 116 / SHEET NO. 24
	DRAWN -	REVISED -			CONTRACT NO. 74181
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		SCALE: 20 / SHEET 2 OF 2 SHEETS / STA. 209+00.00 TO STA. 215+00.00	ILLINOIS FED. AID PROJECT
PLOT DATE = 6/22/2021	DATE -	REVISED -			

T.7N.–R.11W., 2nd P.M., LA MOTTE NORTH TWP.



T.7N.–R.12W., 2nd P.M., ROBINSON NORTH TWP.

- O - EXISTING IRON PIN
- ⊘ - IDOT ALUMINUM DISK
- ⌑ - EXISTING MAG NAIL
- ● - SET IRON PIN
- ⊠ - EXISTING R.O.W. MARKER
- ⊗ - EXISTING FENCE POST
- (R) RECORDED DISTANCE

NOTE:
BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(97)

TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

PARCEL	OWNER	AREA TAKEN		EASEMENT	REM. AREA	INST	RECORDED				EXCESS	
		ADD	EXIST				MICRO FILM NO.	DATE	BOOK	PAGE	AREA	SOLD
7803011	THOMAS E. & JERRI L. TITSWORTH	0.047 AC.	1.303 AC.		21.549 AC.							
7803012	JOHN P. & SUE E. TRIMBLE, TRUSTEES			0.069 AC.								

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-rowplan.dgn

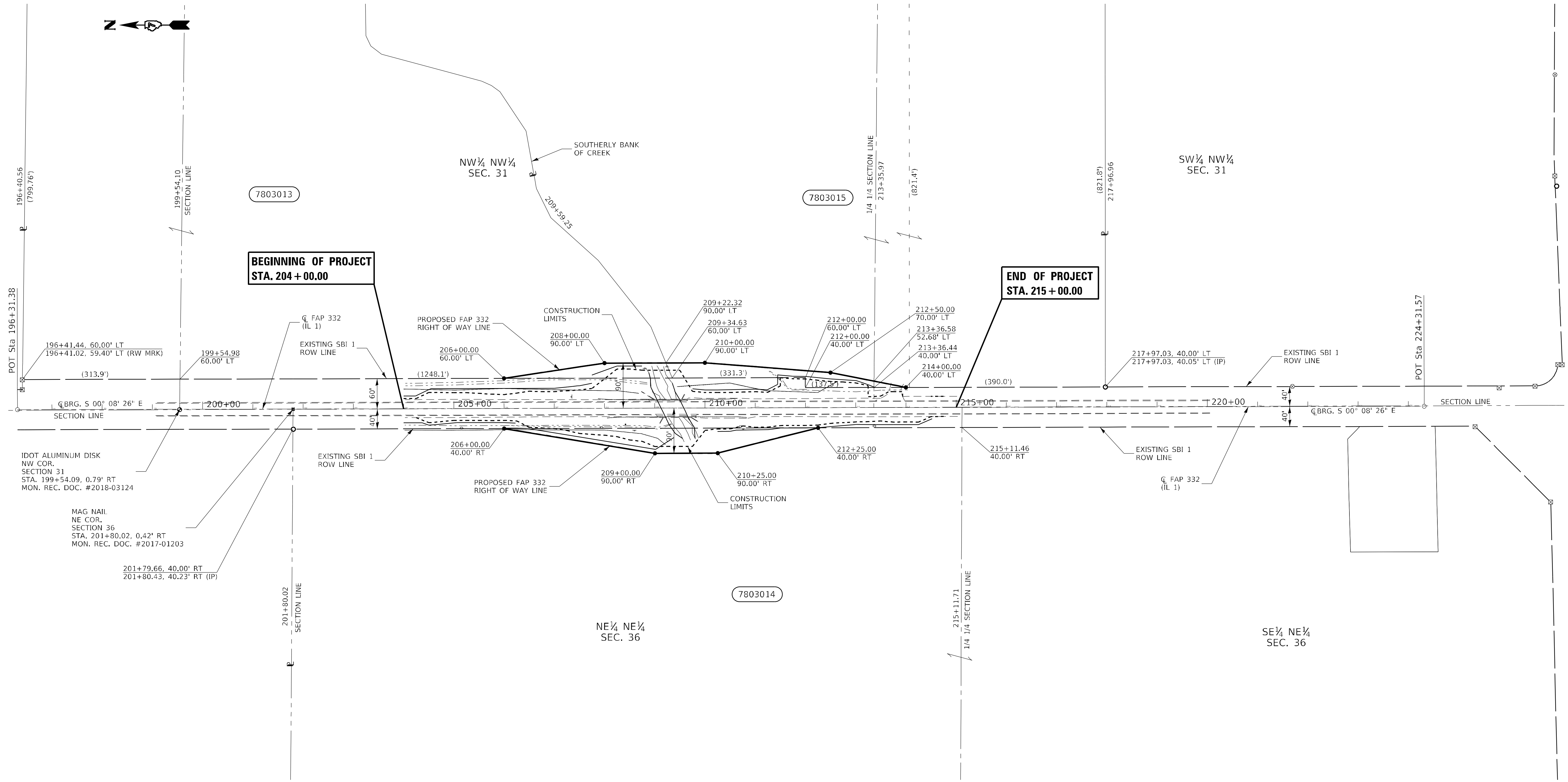
USER NAME = steffenmk	DESIGNED - LRF	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN - JMD	REVISED -	
PLOT SCALE = 200.0000 ' / in.	CHECKED - BAB	REVISED -	
PLOT DATE = 6/22/2021	DATE - 08/05/2019	REVISED -	

RIGHT OF WAY PLANS

SCALE: 1" = 100'	PROJECT	JOB NO. R-97-003-18
	SHEET 1 OF 2 SHEETS	STA. 100+00 TO STA. 130+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	25
		CONTRACT NO. 74181		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

T.7N.–R.11W., 2nd P.M., LA MOTTE SOUTH TWP.



T.7N.–R.12W., 2nd P.M., ROBINSON SOUTH TWP.

- ○ - EXISTING IRON PIN
- ⊘ - IDOT ALUMINUM DISK
- ⌗ - EXISTING MAG NAIL
- ● - SET IRON PIN
- ⊠ - EXISTING R.O.W. MARKER
- ⊗ - EXISTING FENCE POST
- (R) RECORDED DISTANCE

NOTE:
BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(97)

TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

PARCEL	OWNER	AREA TAKEN		EASEMENT	REM. AREA	INST	RECORDED				EXCESS	
		ADD	EXIST				MICRO FILM NO.	DATE	BOOK	PAGE	AREA	SOLD
7803013	PILGRIM HOLINESS CHURCH OF PALESTINE ILLINOIS	0.157 AC.	0.000 AC.		18.195 AC.							
7803014	JERRY LEE & BARBARA M. WILSON, TRUSTEES	0.430 AC.	1.223 AC.		194.334 AC.							
7803015	ROBINSON-PALESTINE WATER COMMISION	0.239 AC.	0.000 AC.		21.132 AC.							

MODEL: Default
FILE NAME: pw:\\plannoom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-rowplan.dgn

USER NAME = steffenmk	DESIGNED - LRF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - JMD	REVISED -	
PLOT SCALE = 200.0000 ' / in.	CHECKED - BAB	REVISED -	
PLOT DATE = 6/22/2021	DATE - 08/05/2019	REVISED -	

RIGHT OF WAY PLANS

SCALE: 1" = 100'	PROJECT	JOB NO. R-97-003-18
	SHEET 2 OF 2 SHEETS	STA. 197+00 TO STA. 224+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	26

CONTRACT NO. 74181

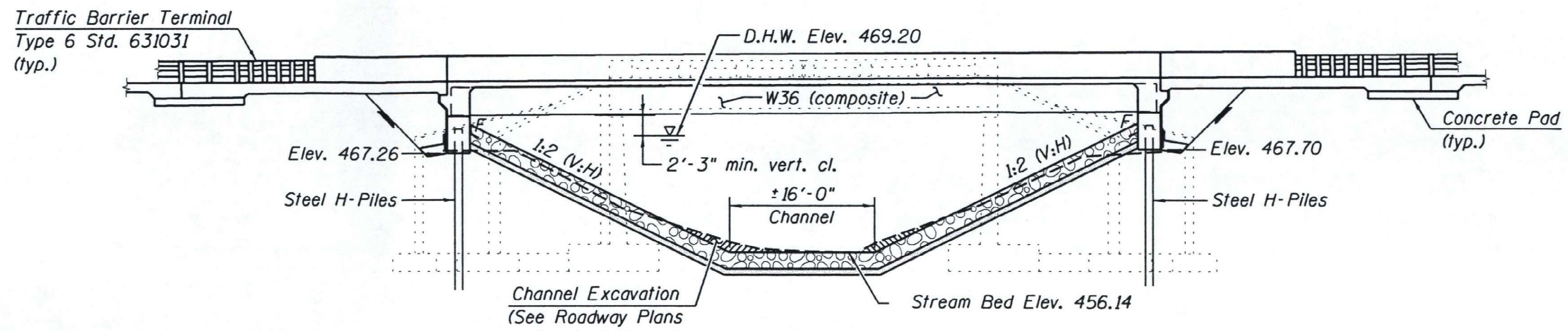
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

B.M. No. 110 - "□" on the N.W. Wingwall of S.N. 017-0003 24' Rt. of Sta. 113+79.
Elev. 475.355

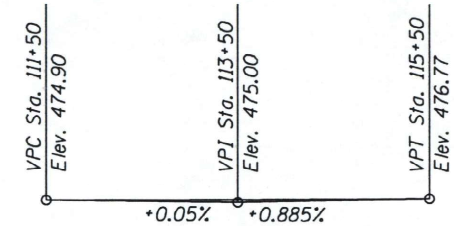
Ex. Structure No. 017-0003 was built in 1935 as a single span reinforced concrete tee beam structure with a length of 43'-0" bk. to bk. of abut. and a clear width of 22'-0". The closed concrete abutments are supported by untreated timber piling. The structure was widened in 1959 to provide a clear width of 43'-0". There is a concrete bridge rail attached to a concrete deck curb. The existing structure shall be completely replaced.

One lane of traffic is to be maintained using stage construction.

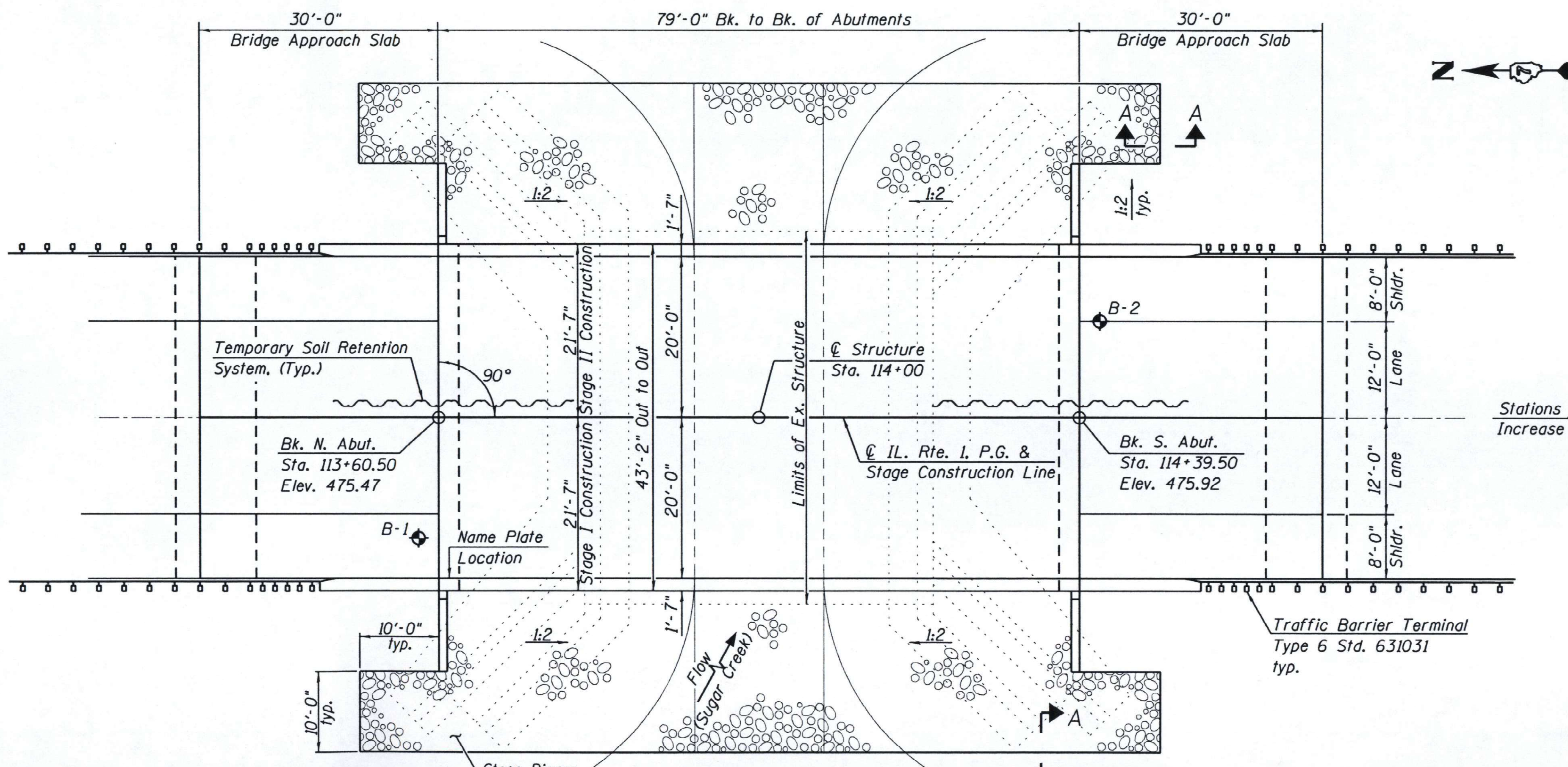
No salvage.



ELEVATION



PROFILE GRADE
(Along ℄ IL. Rte. 1)



PLAN

INDEX OF SHEETS

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications
with 2008 & 2009 Interims

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M 270 Grade 50)
fy = 36,000 psi (M 270 Grade 36)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.141g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.342g
Soil Site Class = C

STATION 114+00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 332 SEC. (21-Y,21-X)B-1
LOADING HL-93
STR. NO. 017-0033

NAME PLATE
See Std. 515001

MARK A. HENDERSON
5513
LICENSED
STRUCTURAL
ENGINEER
STATE OF ILLINOIS
Mark A Henderson 1/27/20
Expires 11/30/2020

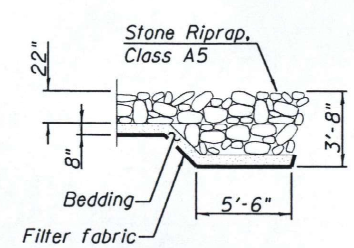
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

WATERWAY INFORMATION

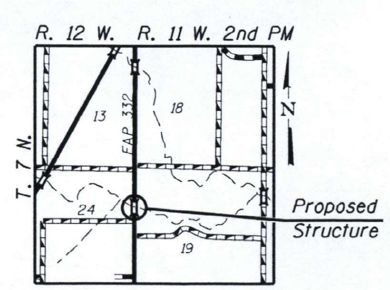
Drainage Area = 7.5 Sq. Mi.			Ex. Low Grade Elev. - 474.82 @ Sta. - 110+00							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1,870	364	445	467.5	0.0	0.0	467.5	467.5
Design	50	3,090	431	559	469.2	0.7	0.6	469.9	469.8
Base	100	3,640	443	581	469.5	0.9	0.7	470.4	470.2
Overtopping									
Max. Calc.	500	5,030	474	640	470.3	1.7	1.3	472.0	471.6

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	467.26	467.70



SECTION A-A



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL ROUTE 1 OVER SUGAR CREEK
F.A.P. ROUTE 332 - SECTION (21-Y,21-X)B-1
CRAWFORD COUNTY
STA. 114+00
STRUCTURE NO. 017-0033

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 017-0033
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRP	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 1 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	27
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		813	813
Filter Fabric	Sq. Yd.		813	813
Removal of Existing Structures No. 2	Each			1
Structure Excavation	Cu. Yd.		56	56
Concrete Structures	Cu. Yd.		66.2	66.2
Concrete Superstructure	Cu. Yd.	136.6		136.6
Concrete Superstructure (Approach Slab)	Cu. Yd.	123.7		123.7
Bridge Deck Grooving	Sq. Yd.	590		590
Protective Coat	Sq. Yd.	719		719
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1692		1692
Reinforcement Bars, Epoxy Coated	Pound	56510	9540	66050
Bar Splicers	Each	481	92	573
Furnishing Steel Piles HP 10x42	Foot		490	490
Driving Piles	Foot		490	490
Test Pile Steel HP 10x42	Each		2	2
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		24	24
Geocomposite Wall Drain	Sq. Yd.		83	83
Granular Backfill for Structures	Cu. Yd.		159	159
Asbestos Bearing Pad Removal	Each	8		8
Pipe Underdrain for Structures 4"	Foot		153	153
Temporary Soil Retention System	Sq. Ft.		492	492

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts). Bolts - $^7/_8$" ϕ, holes - $^{15}/_{16}$ ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 79,910 (M270 Grade 50)
= 9,020 (M270 Grade 36)

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

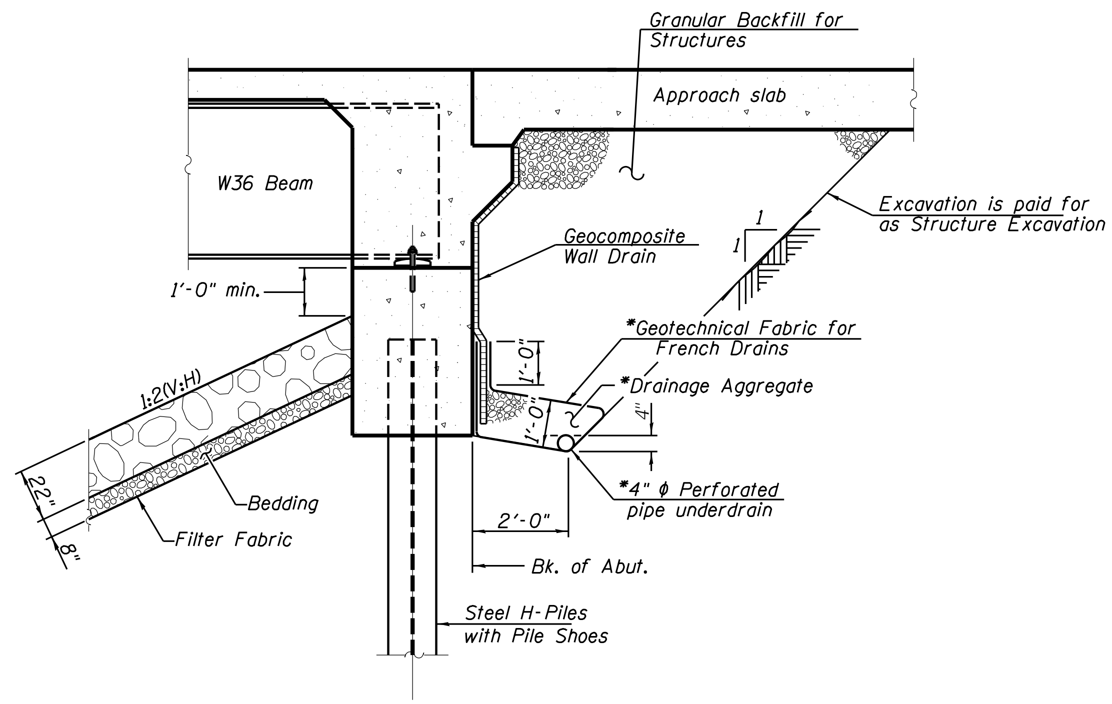
If the contractor elects to use the cantilever forming brackets on the exterior beams, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom frlange of the fascia beams shall be Gray, Munsell No. 5B 7/1.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Excavation behind the existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

Slipforming of the parapets will not be allowed.

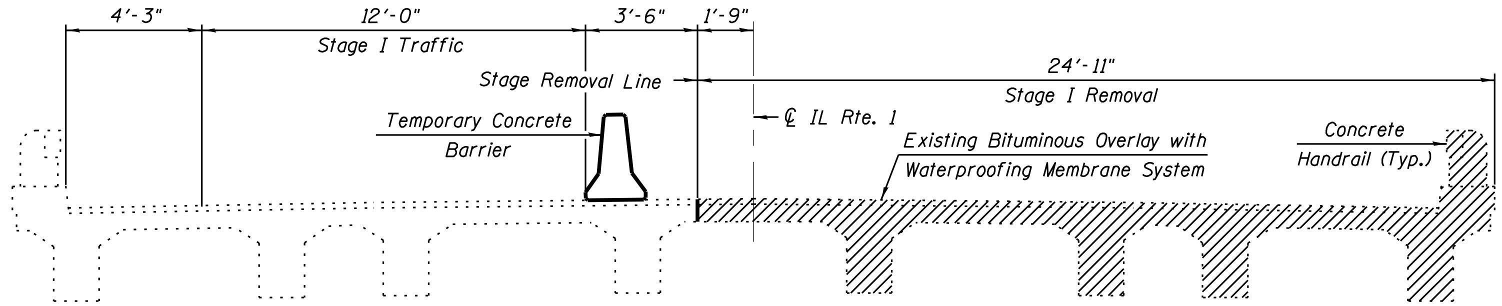


SECTION THRU INTEGRAL ABUTMENT

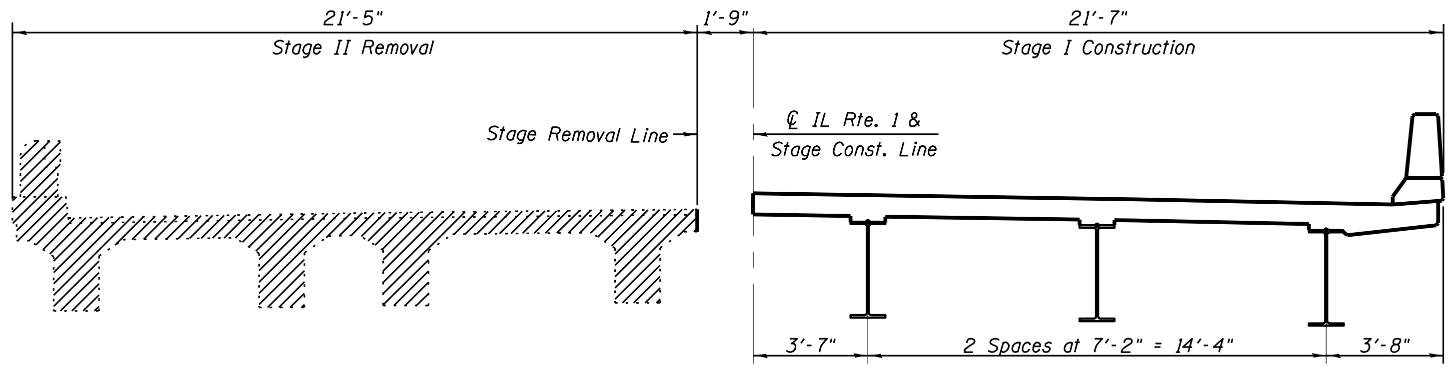
(Horiz. dim. @ Rt. L's)

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

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).

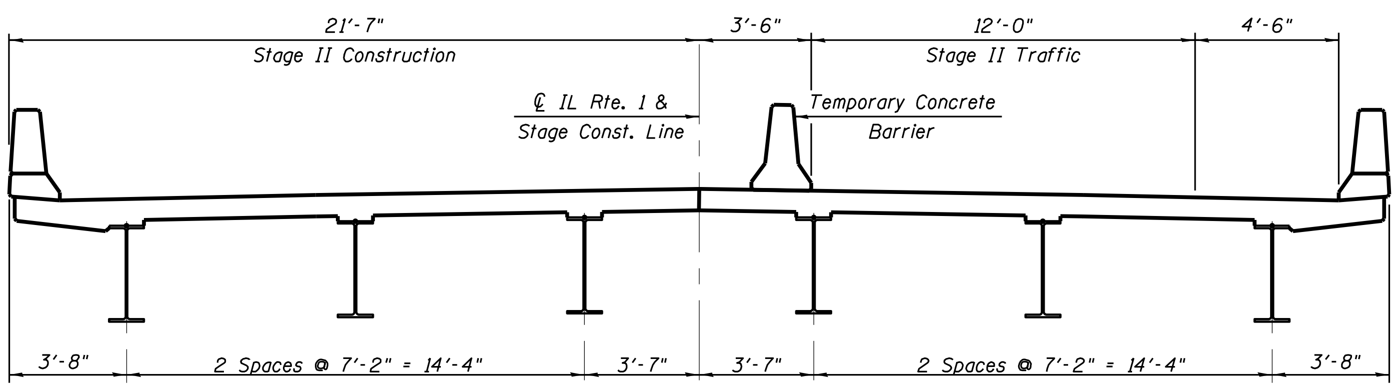


STAGE I REMOVAL & STAGE I TRAFFIC
(Looking South)

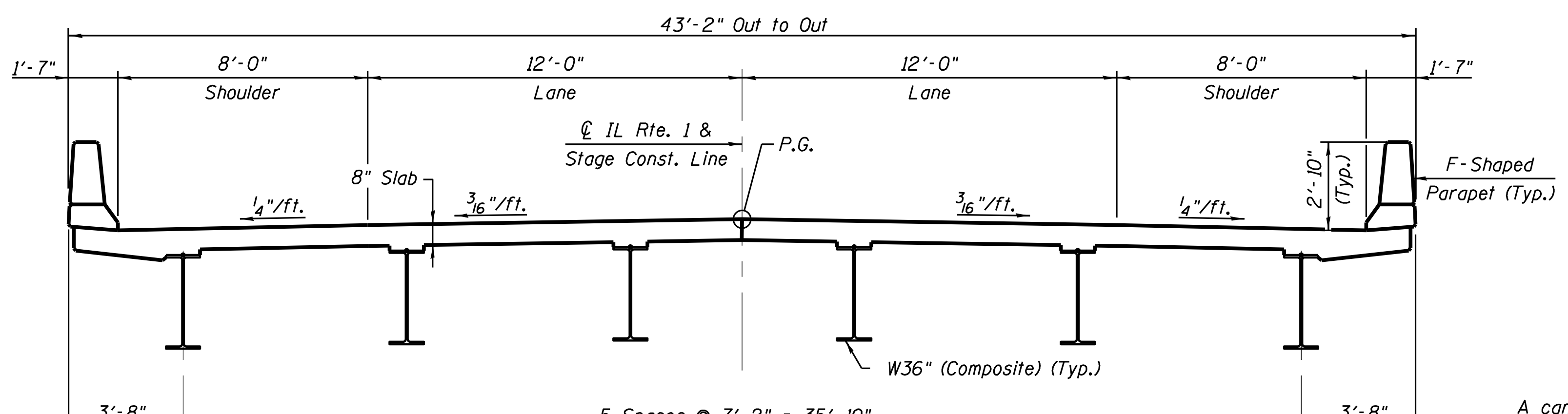


STAGE I CONSTRUCTION & STAGE II REMOVAL
(Looking South)

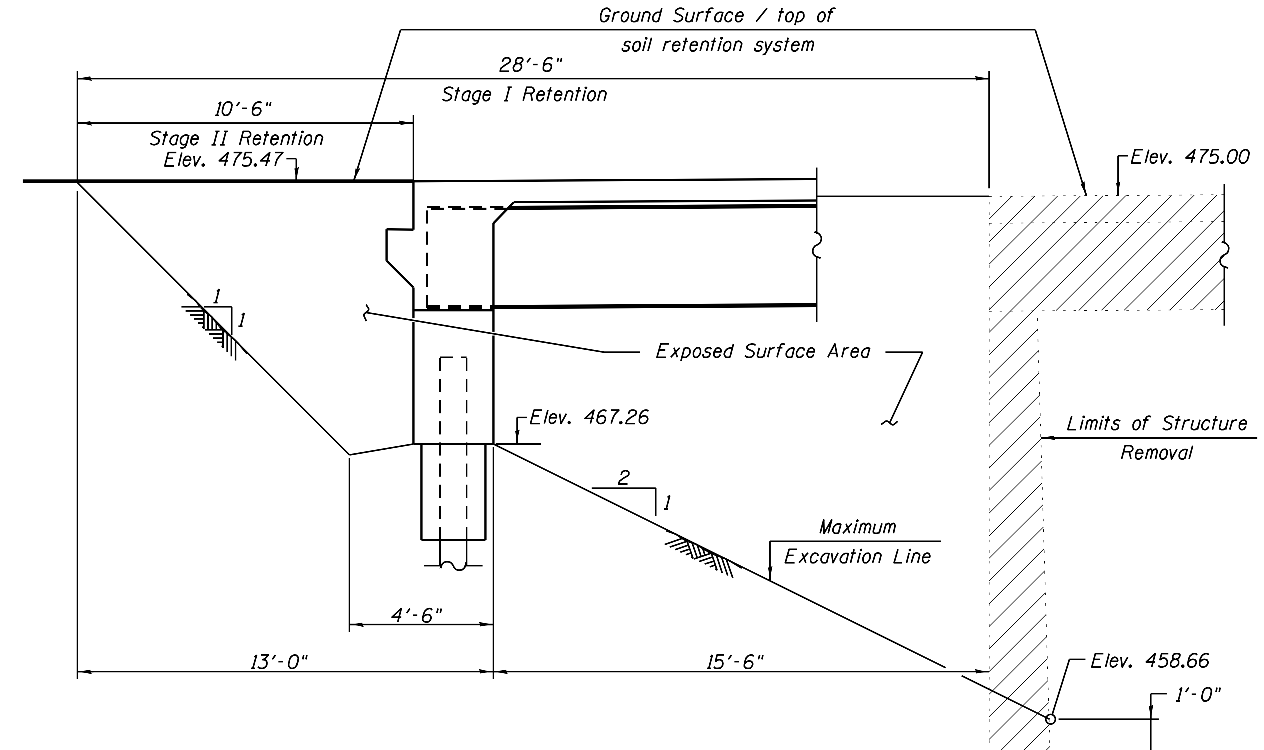
▨ - Indicates Limits of Removal of Existing Structure



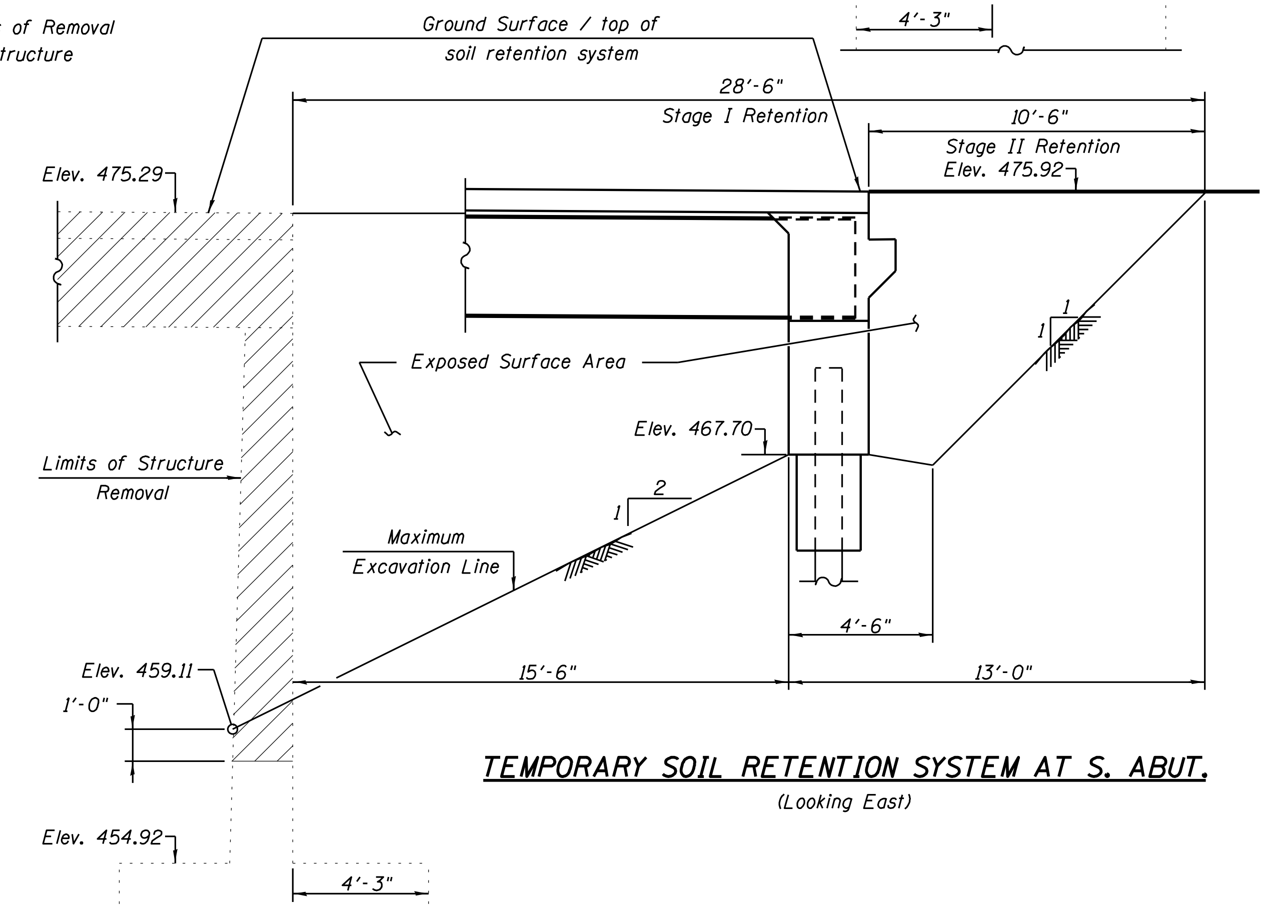
STAGE II CONSTRUCTION & STAGE II TRAFFIC
(Looking South)



PROPOSED CROSS SECTION
(Looking South)



TEMPORARY SOIL RETENTION SYSTEM AT N. ABUT.
(Looking East)



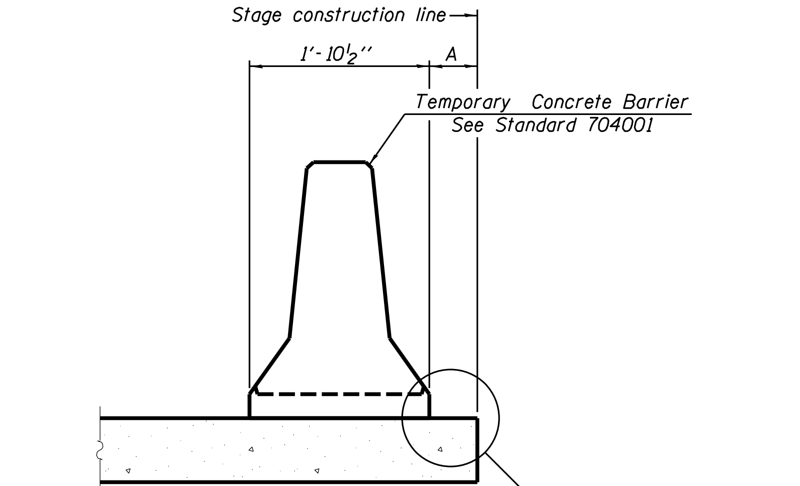
TEMPORARY SOIL RETENTION SYSTEM AT S. ABUT.
(Looking East)

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

Cost of removing handrail and bituminous overlay with waterproofing membrane system is included in the cost of Removal of Existing Structure.
For quantity of temporary concrete barrier See Roadway Plans.
For details of temporary concrete barrier See Sheet 4 of 21.

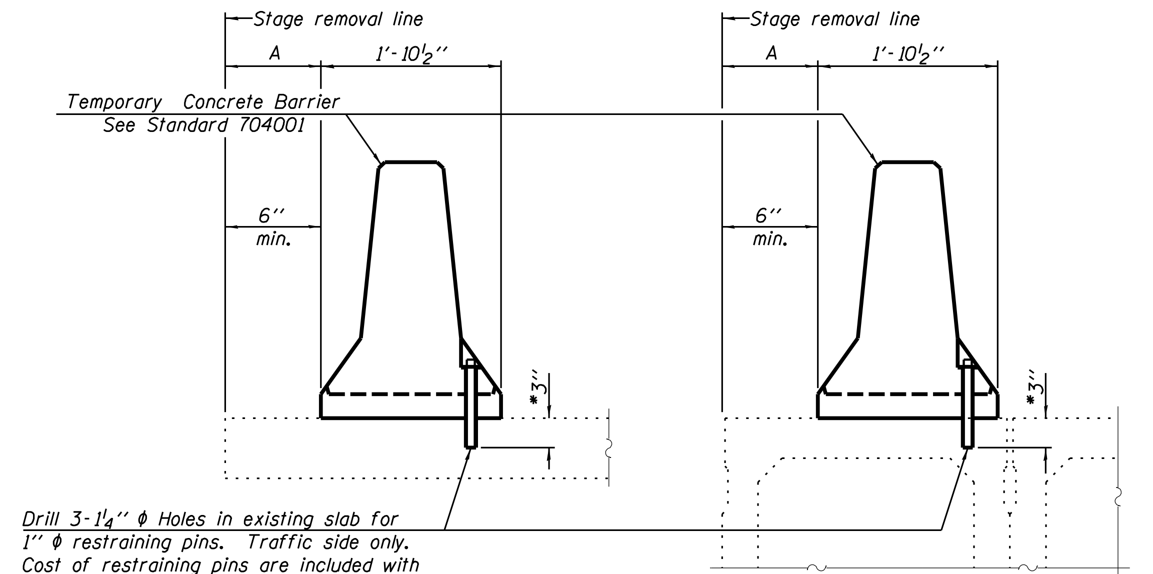
V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS STRUCTURE NO. 017-0033
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRP	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 3 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	29
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



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

NEW SLAB OR NEW DECK BEAM



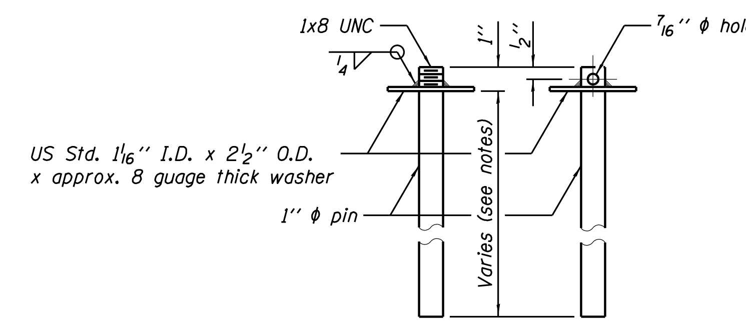
Drill 3-1¼" ϕ Holes in existing slab for 1" ϕ restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

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

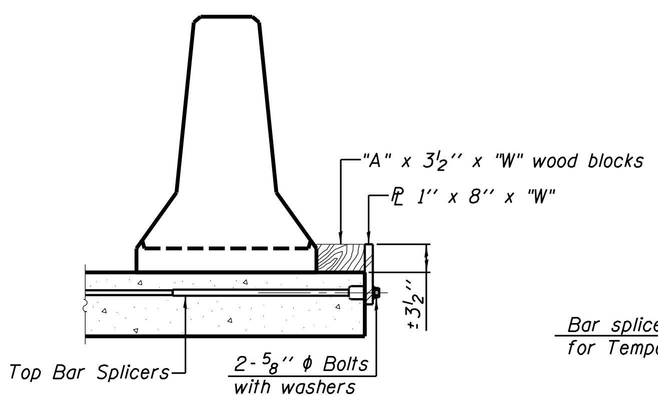
EXISTING SLAB

EXISTING DECK BEAM

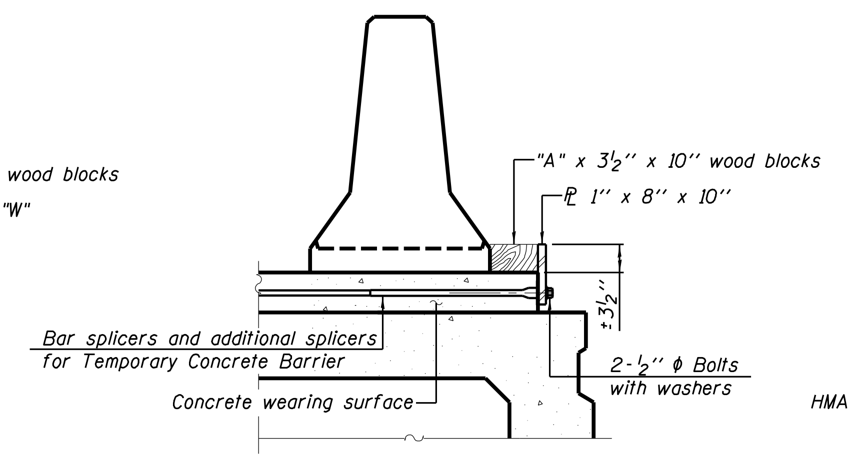
SECTIONS THRU SLAB OR DECK BEAM



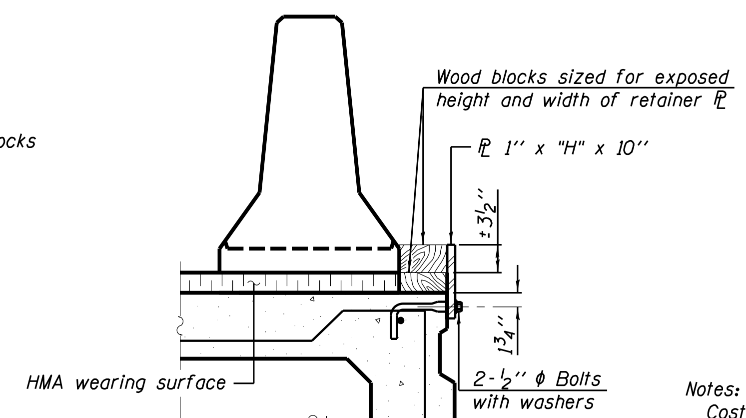
RESTRAINING PIN



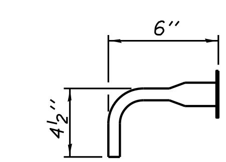
DETAIL I



DETAIL II



DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ of each temporary concrete barrier.

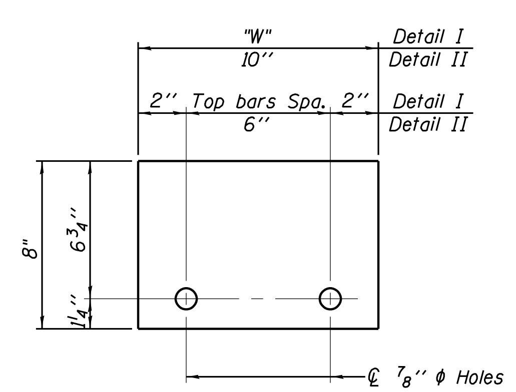
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

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

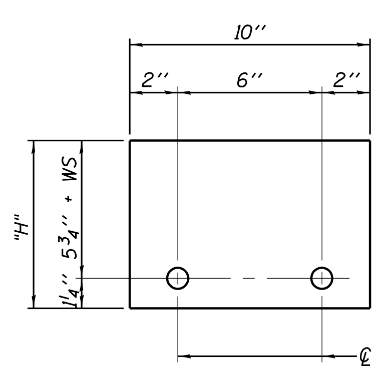
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the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

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



STEEL RETAINER PL 1" x 8" x "W"

(Detail I and II)



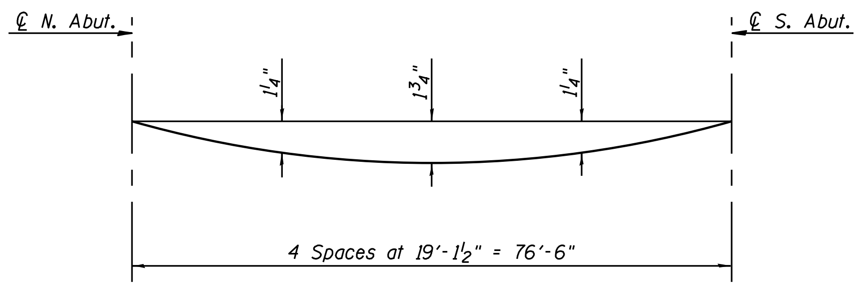
STEEL RETAINER PL 1" x "H" x 10"

(Detail III)

R-27

2-17-2017

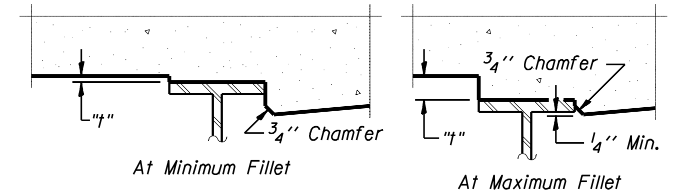
Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 017-0033	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - GBR	REVISED -			332	(21-Y,21-X)B-1	CRAWFORD	116	30
	PLOT SCALE =	DRAWN - JRP	REVISED -					CONTRACT NO. 74181		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 4 OF 21 SHEETS		ILLINOIS FED. AID PROJECT			



DEAD LOAD DEFLECTION DIAGRAM

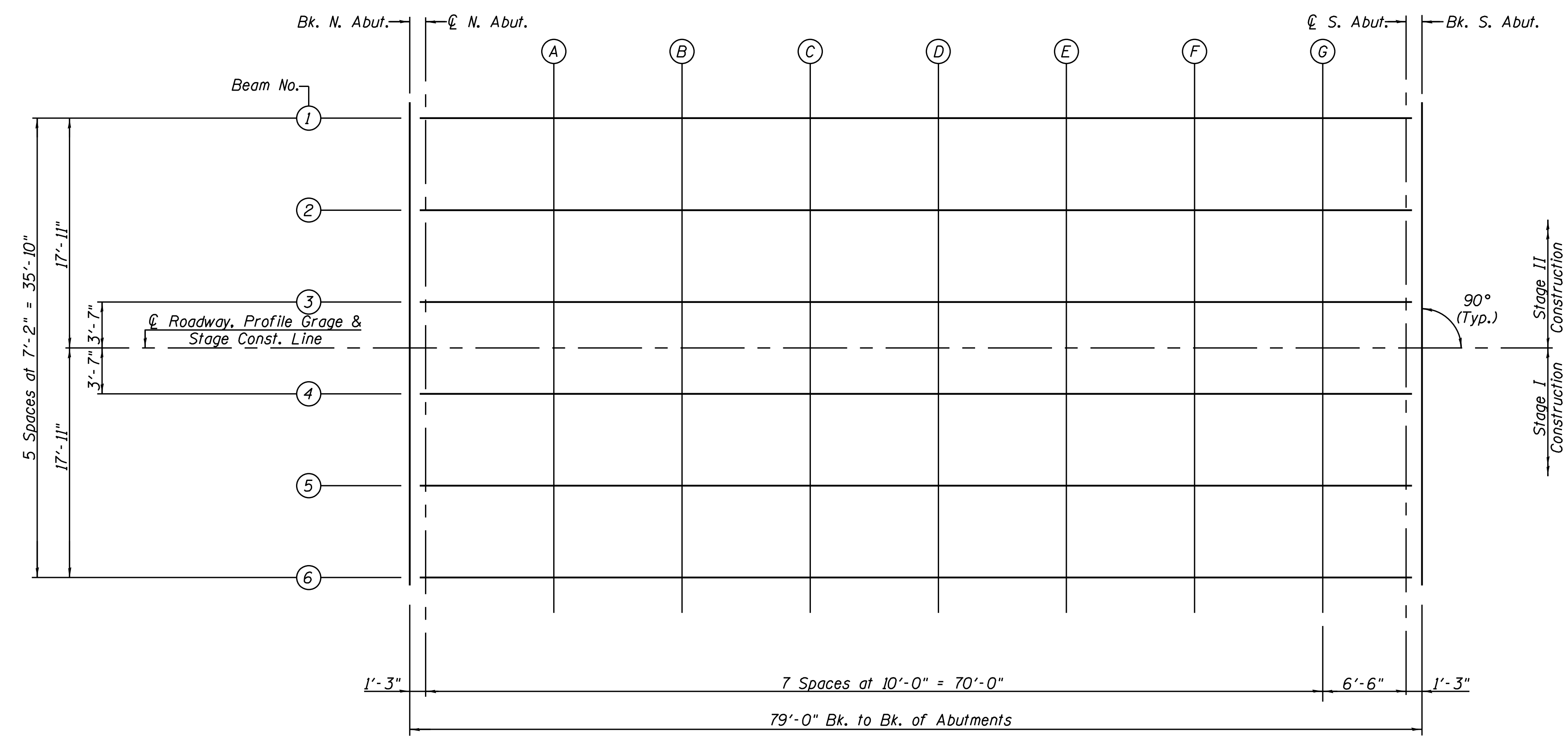
(Includes weight of concrete only).

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 6 of 21.



To determine "t": After all structural steel has 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 sheet 6 of 21, minus slab thickness equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS STRUTURE NO. 017-0033	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - GBR	REVISED -			332	(21-Y,21-X)B-1	CRAWFORD	116	31
	PLOT SCALE =	DRAWN - JRP	REVISED -					CONTRACT NO. 74181		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 5 OF 21 SHEETS		ILLINOIS FED. AID PROJECT			

BEAMS 1 & 6				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut	113+60.50	17.92	475.16	475.16
℄ N. Abut	113+61.75	17.92	475.16	475.16
A	113+71.75	17.92	475.21	475.27
B	113+81.75	17.92	475.27	475.37
C	113+91.75	17.92	475.32	475.46
D	114+01.75	17.92	475.38	475.53
E	114+11.75	17.92	475.44	475.58
F	114+21.75	17.92	475.50	475.60
G	114+31.75	17.92	475.56	475.62
℄ S. Abut.	114+38.25	17.92	475.60	475.60
Bk. S. Abut.	114+39.50	17.92	475.61	475.61

BEAMS 2 & 5				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut	113+60.50	10.75	475.30	475.30
℄ N. Abut.	113+61.75	10.75	475.31	475.31
A	113+71.75	10.75	475.36	475.42
B	113+81.75	10.75	475.41	475.52
C	113+91.75	10.75	475.46	475.60
D	114+01.75	10.75	475.52	475.67
E	114+11.75	10.75	475.58	475.72
F	114+21.75	10.75	475.64	475.75
G	114+31.75	10.75	475.70	475.76
℄ S. Abut.	114+38.25	10.75	475.74	475.74
Bk. S. Abut.	114+39.50	10.75	475.75	475.75

BEAMS 3 & 4				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut	113+60.50	3.58	475.41	475.41
℄ N. Abut.	113+61.75	3.58	475.42	475.42
A	113+71.75	3.58	475.47	475.53
B	113+81.75	3.58	475.52	475.63
C	113+91.75	3.58	475.57	475.72
D	114+01.75	3.58	475.63	475.78
E	114+11.75	3.58	475.69	475.83
F	114+21.75	3.58	475.75	475.86
G	114+31.75	3.58	475.81	475.87
℄ S. Abut.	114+38.25	3.58	475.86	475.86
Bk. S. Abut.	114+39.50	3.58	475.86	475.86

CENTERLINE ROADWAY, PROFILE GRADE & STAGE CONST. LINE				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut	113+60.50	0.00	475.47	475.47
℄ N. Abut.	113+61.75	0.00	475.47	475.47
A	113+71.75	0.00	475.52	475.58
B	113+81.75	0.00	475.58	475.69
C	113+91.75	0.00	475.63	475.77
D	114+01.75	0.00	475.69	475.84
E	114+11.75	0.00	475.75	475.89
F	114+21.75	0.00	475.81	475.92
G	114+31.75	0.00	475.87	475.93
℄ S. Abut.	114+38.25	0.00	475.91	475.91
Bk. S. Abut.	114+39.50	0.00	475.92	475.92

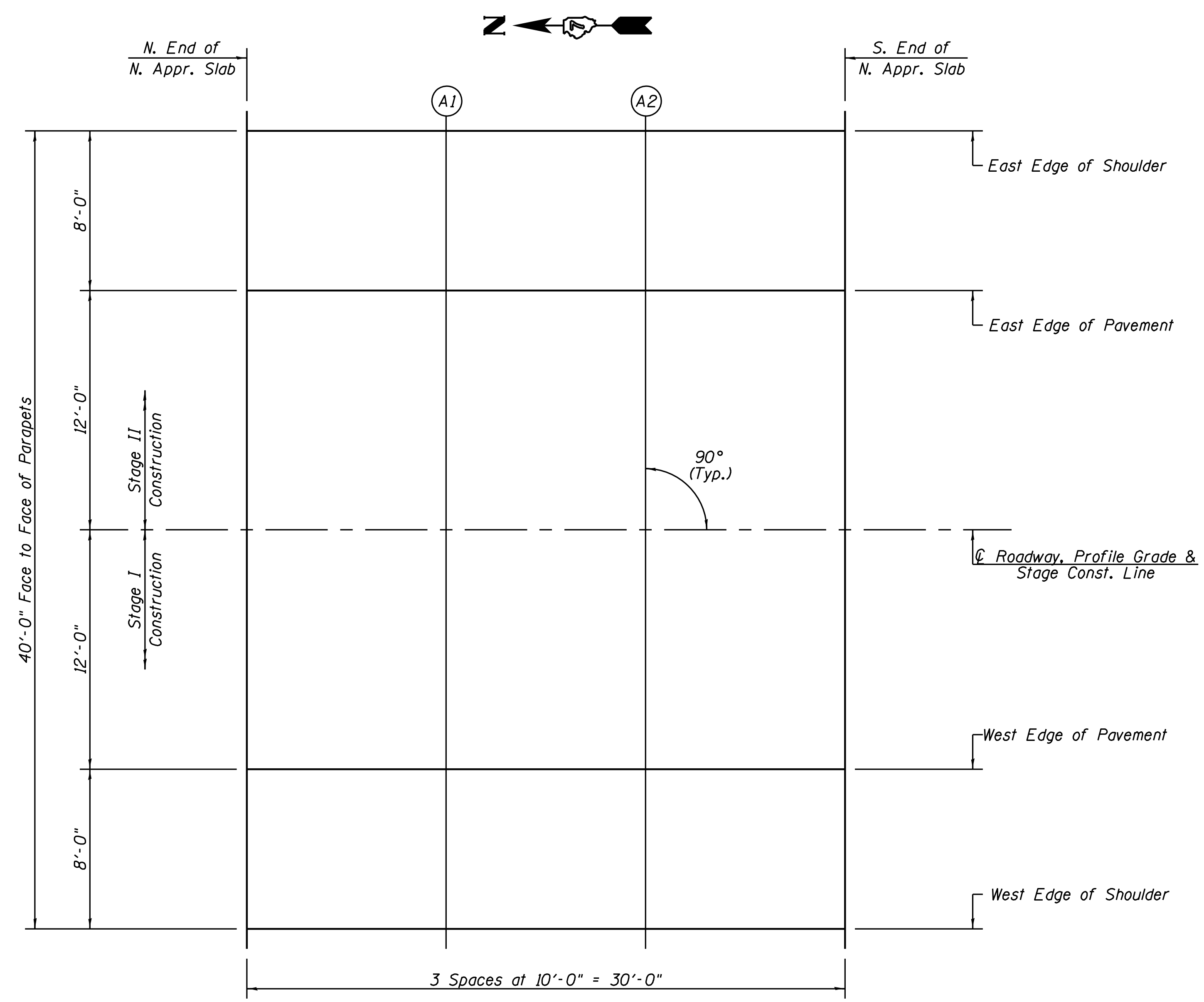
EAST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	113+30.50	-20.00	474.98
A1	113+40.50	-20.00	475.02
A2	113+50.50	-20.00	475.07
S. End of N. Appr. Slab	113+60.50	-20.00	475.11

EAST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	113+30.50	-12.00	475.14
A1	113+40.50	-12.00	475.19
A2	113+50.50	-12.00	475.23
S. End of N. Appr. Slab	113+60.50	-12.00	475.28

CENTERLINE ROADWAY, PROFILE GRADE & STAGE CONST. LINE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	113+30.50	0.00	475.33
A1	113+40.50	0.00	475.37
A2	113+50.50	0.00	475.42
S. End of N. Appr. Slab	113+60.50	0.00	475.47

WEST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	113+30.50	12.00	475.14
A1	113+40.50	12.00	475.19
A2	113+50.50	12.00	475.23
S. End of N. Appr. Slab	113+60.50	12.00	475.28

WEST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	113+30.50	20.00	474.98
A1	113+40.50	20.00	475.02
A2	113+50.50	20.00	475.07
S. End of N. Appr. Slab	113+60.50	20.00	475.11



PLAN

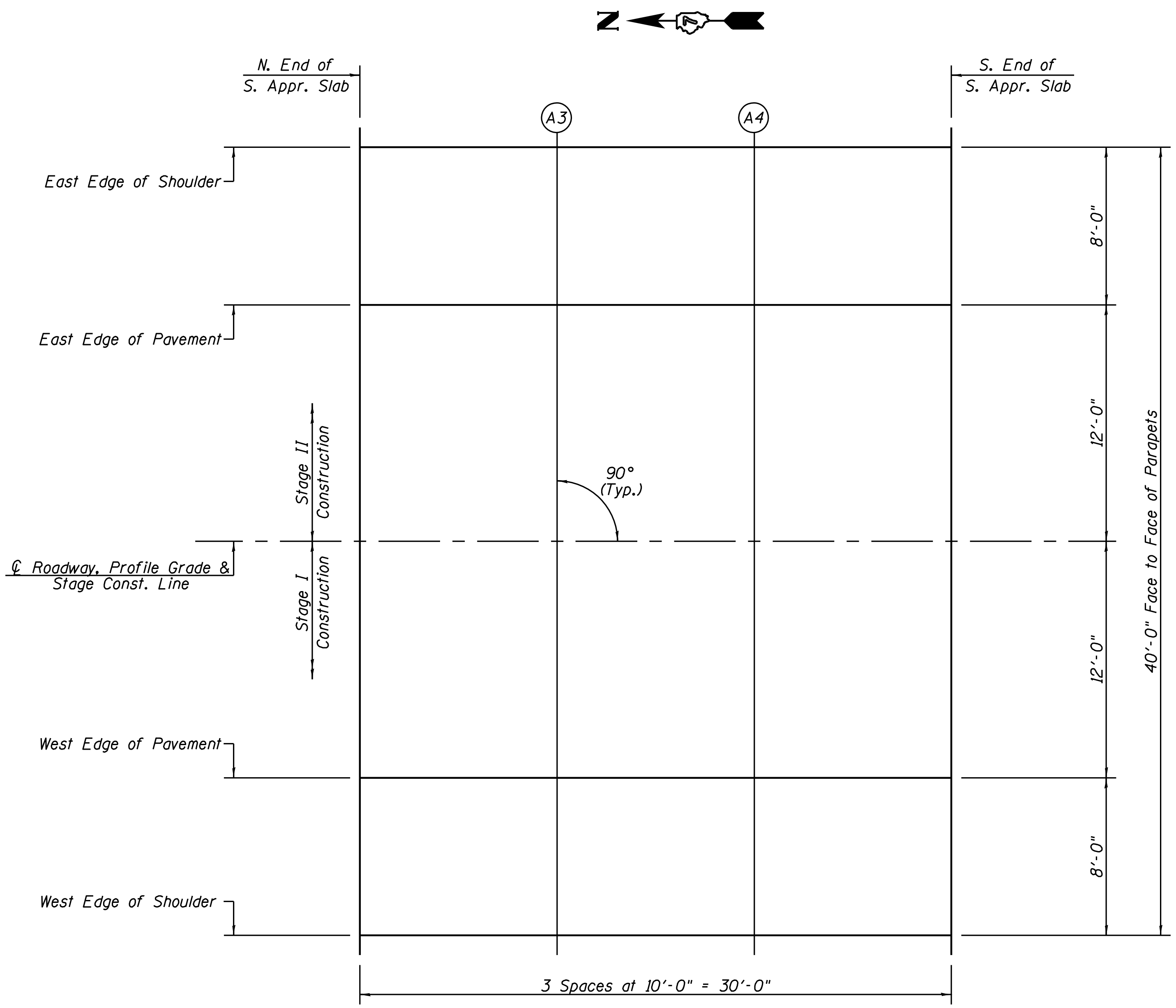
Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF NORTH APPROACH SLAB ELEVATIONS STRUCTURE NO. 017-0033
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRP	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 7 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	33
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

EAST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	114+39.50	-20.00	475.57
A3	114+49.50	-20.00	475.63
A4	114+59.50	-20.00	475.70
S. End of S. Appr. Slab	114+69.50	-20.00	475.77

EAST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	114+39.50	-12.00	475.73
A3	114+49.50	-12.00	475.80
A4	114+59.50	-12.00	475.87
S. End of S. Appr. Slab	114+69.50	-12.00	475.94

CENTERLINE, PROFILE GRADE & STAGE CONST. LINE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	114+39.50	0.00	475.92
A3	114+49.50	0.00	475.99
A4	114+59.50	0.00	476.05
S. End of S. Appr. Slab	114+69.50	0.00	476.13



PLAN

WEST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	114+39.50	12.00	475.73
A3	114+49.50	12.00	475.80
A4	114+59.50	12.00	475.87
S. End of S. Appr. Slab	114+69.50	12.00	475.94

WEST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	114+39.50	20.00	475.57
A3	114+49.50	20.00	475.63
A4	114+59.50	20.00	475.70
S. End of S. Appr. Slab	114+69.50	20.00	475.77

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

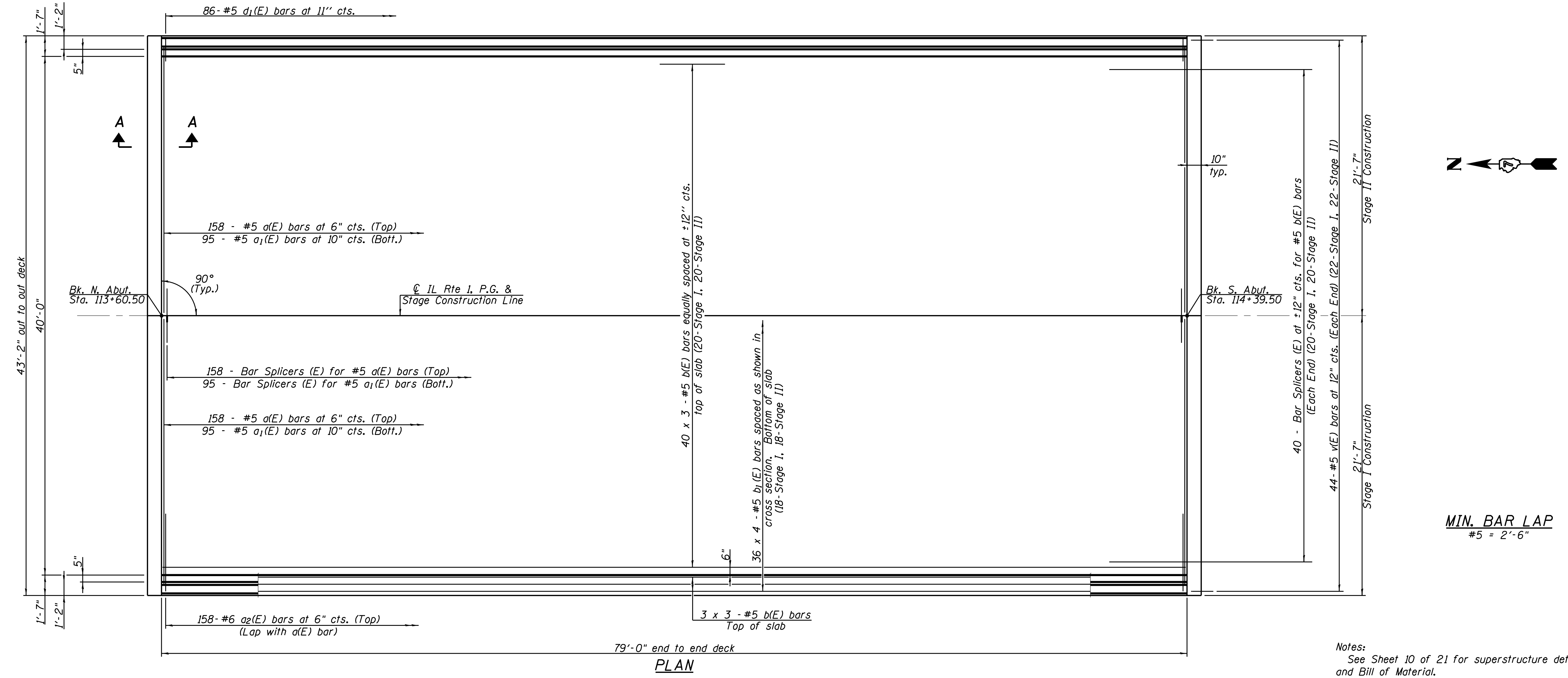
USER NAME =	DESIGNED - JRS	REVISED -
	CHECKED - GBR	REVISED -
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

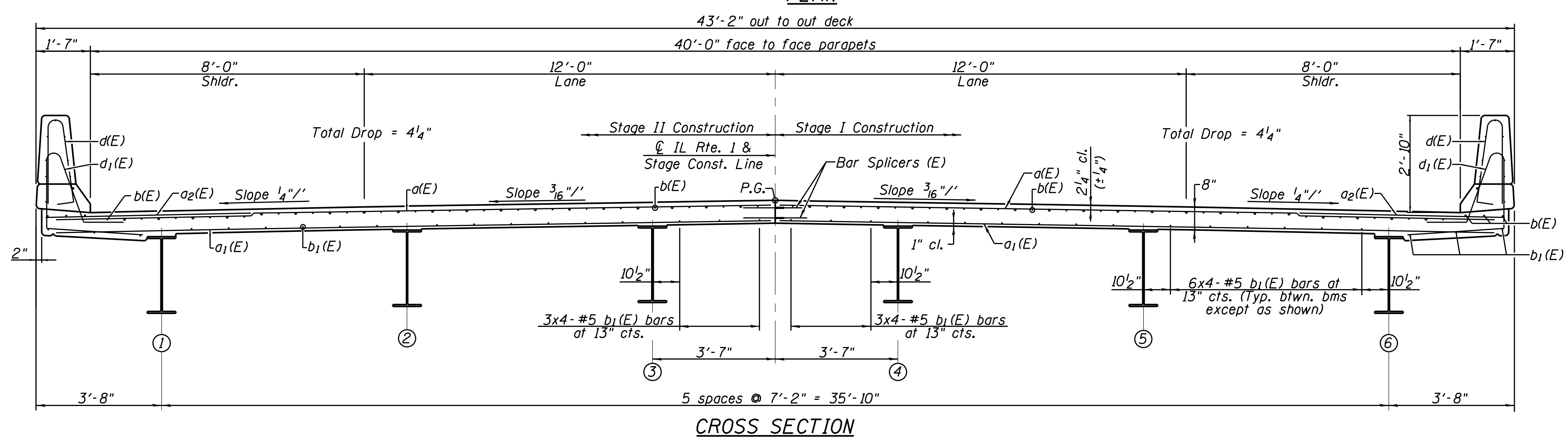
TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 017-0033

SHEET NO. 8 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	34
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



PLAN



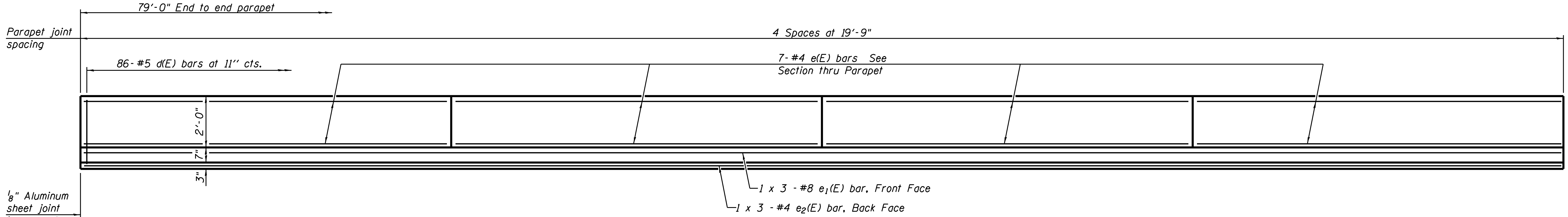
CROSS SECTION
(Looking South)

MIN. BAR LAP
#5 = 2'-6"

Notes:
See Sheet 10 of 21 for superstructure details and Bill of Material.
Bars indicated thus 40 x 3-#5 etc. indicates 40 lines of bars with 3 lengths per line.
See Sheet 10 of 21 for parapet reinforcement.
See Sheet 19 of 21 for bar splicer details.
For Section A-A and diaphragm details see Sheet 11 of 21.

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 017-0033
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRP	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 9 OF 21 SHEETS

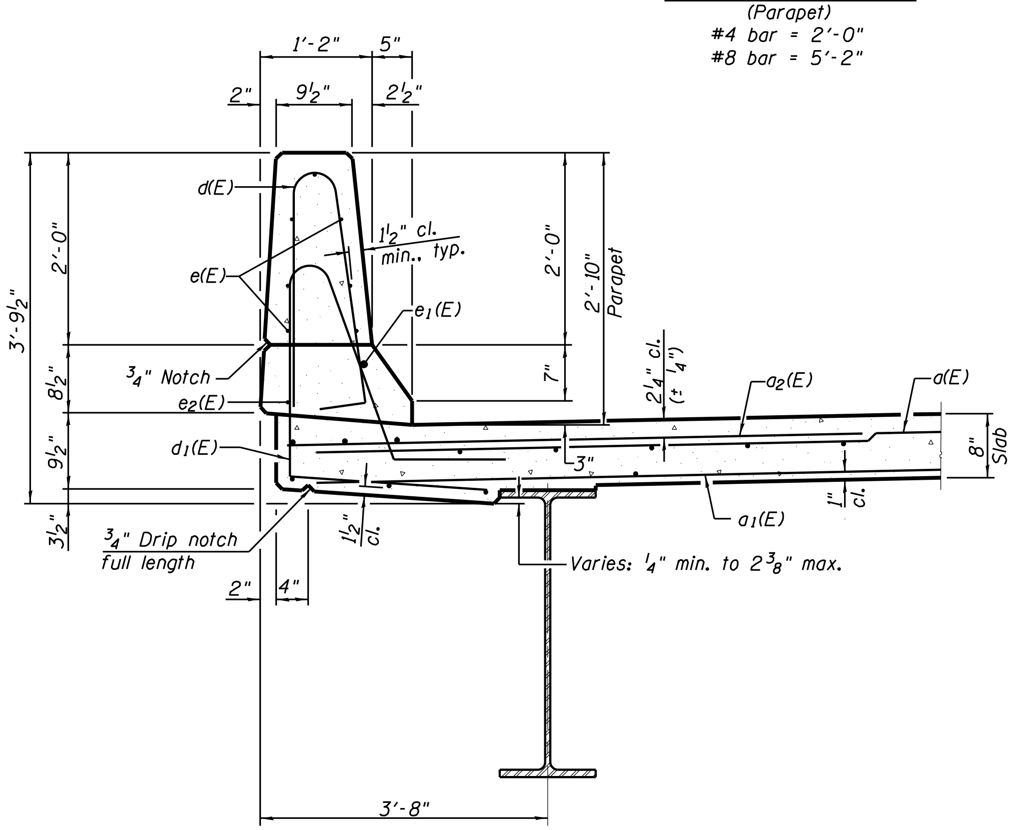
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	35
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



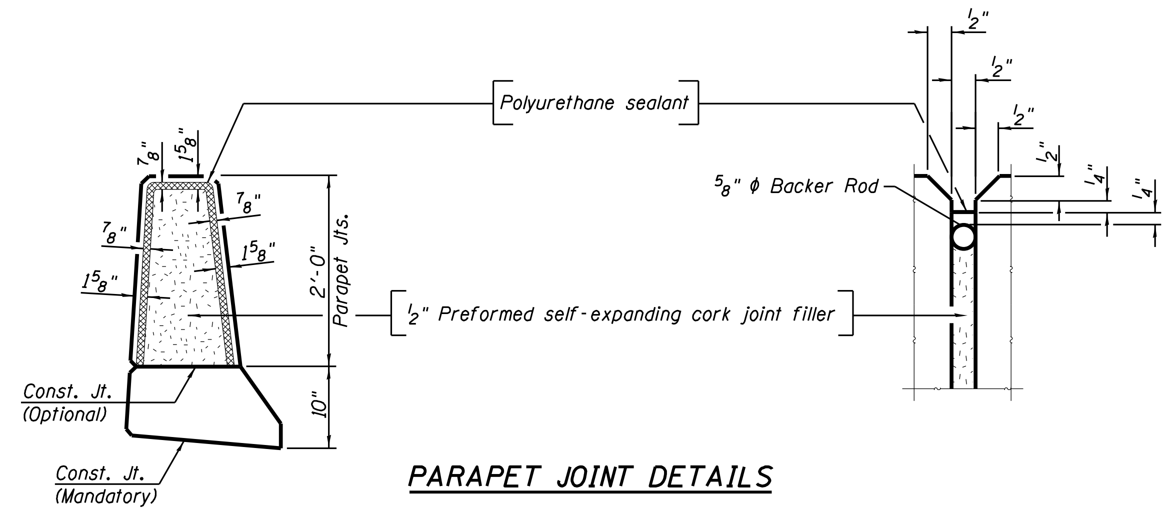
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



SECTION THRU PARAPET

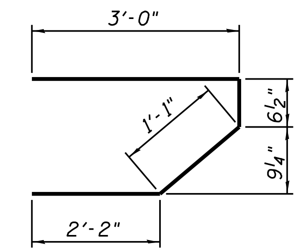


PARAPET JOINT DETAILS

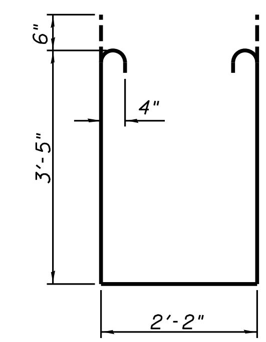
Notes:

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.

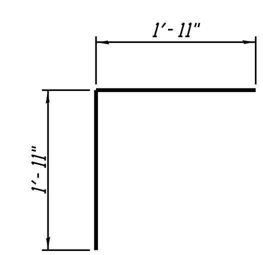
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.



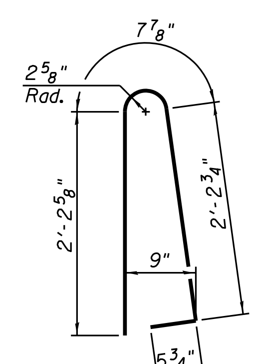
BAR s(E)



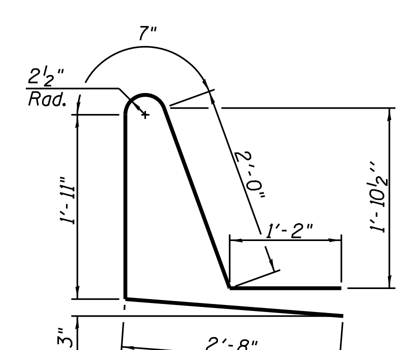
BAR s1(E)



BAR v(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	316	#5	21'-1"	——
a1(E)	190	#5	20'-3"	——
a2(E)	316	#6	6'-6"	——
b(E)	138	#5	28'-9"	——
b1(E)	144	#5	22'-2"	——
d(E)	172	#5	5'-7"	
d1(E)	172	#5	8'-4"	
e(E)	56	#4	19'-6"	——
e1(E)	6	#8	31'-4"	——
e2(E)	6	#4	20'-8"	——
m(E)	20	#6	21'-3"	——
m1(E)	24	#6	10'-6"	——
m2(E)	10	#6	6'-10"	——
m3(E)	4	#6	3'-4"	——
s(E)	84	#5	6'-10"	
s1(E)	72	#4	10'-0"	
v(E)	88	#5	3'-10"	
Reinforcement Bars, Epoxy Coated			Pound	28100
Concrete Superstructure			Cu. Yds.	129.8

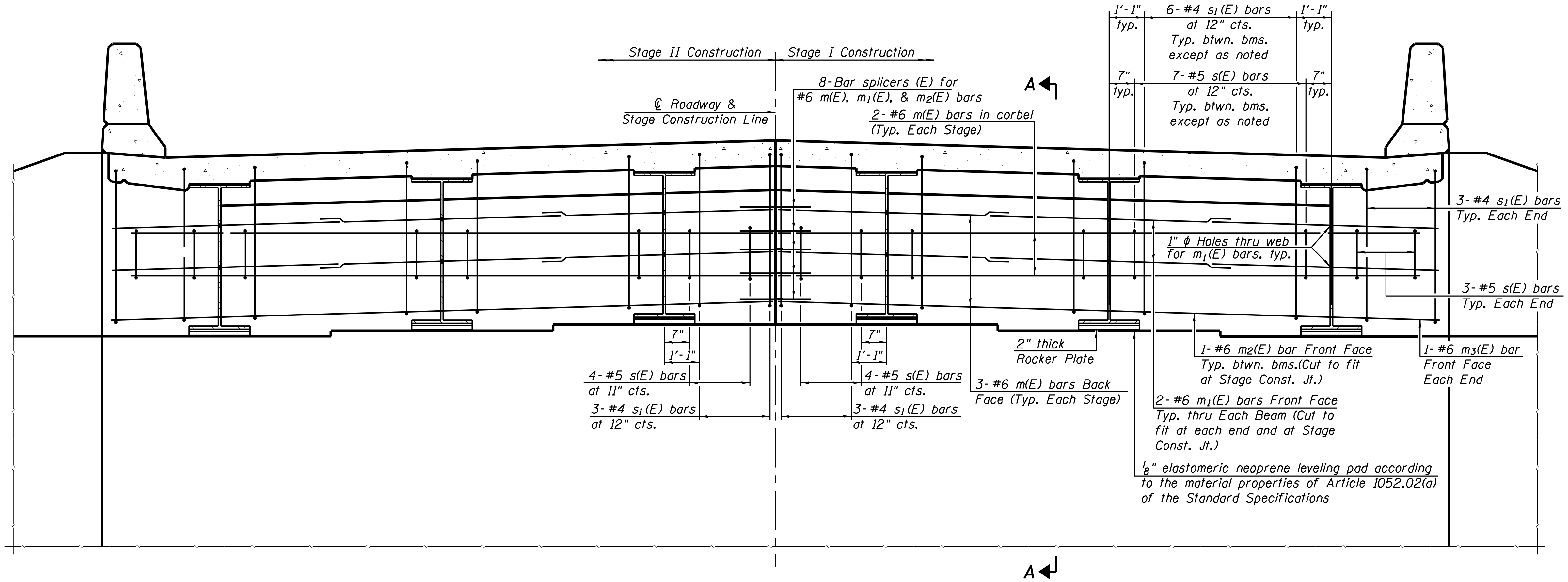
Bars indicated thus 1 x 3- #8 etc. indicates 1 line of bars with 3 lengths per line.

Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - GBR	REVISED -	
	PLOT SCALE =	DRAWN - JRP	REVISED -	
	PLOT DATE =	CHECKED - GBR	REVISED -	

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 017-0033
SHEET NO. 10 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	36

CONTRACT NO. 74181
ILLINOIS FED. AID PROJECT



DIAPHRAGM ELEVATION AT SOUTH ABUTMENT

(Looking South) (North Abutment Similar by rotation of 180°)

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 21.

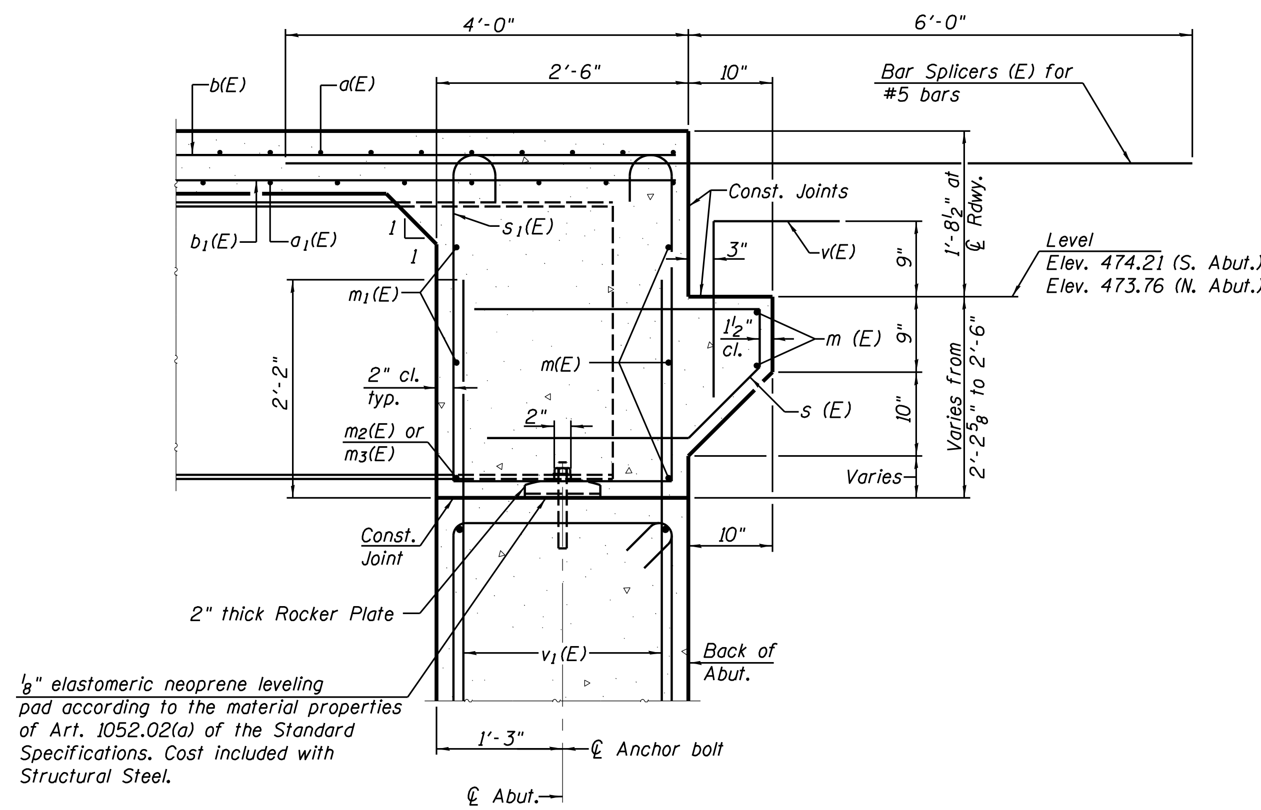
Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 21.

For details of bars s(E) & s_1(E) see sheet 10 of 21.

The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP

#6 bar = 3'-4''

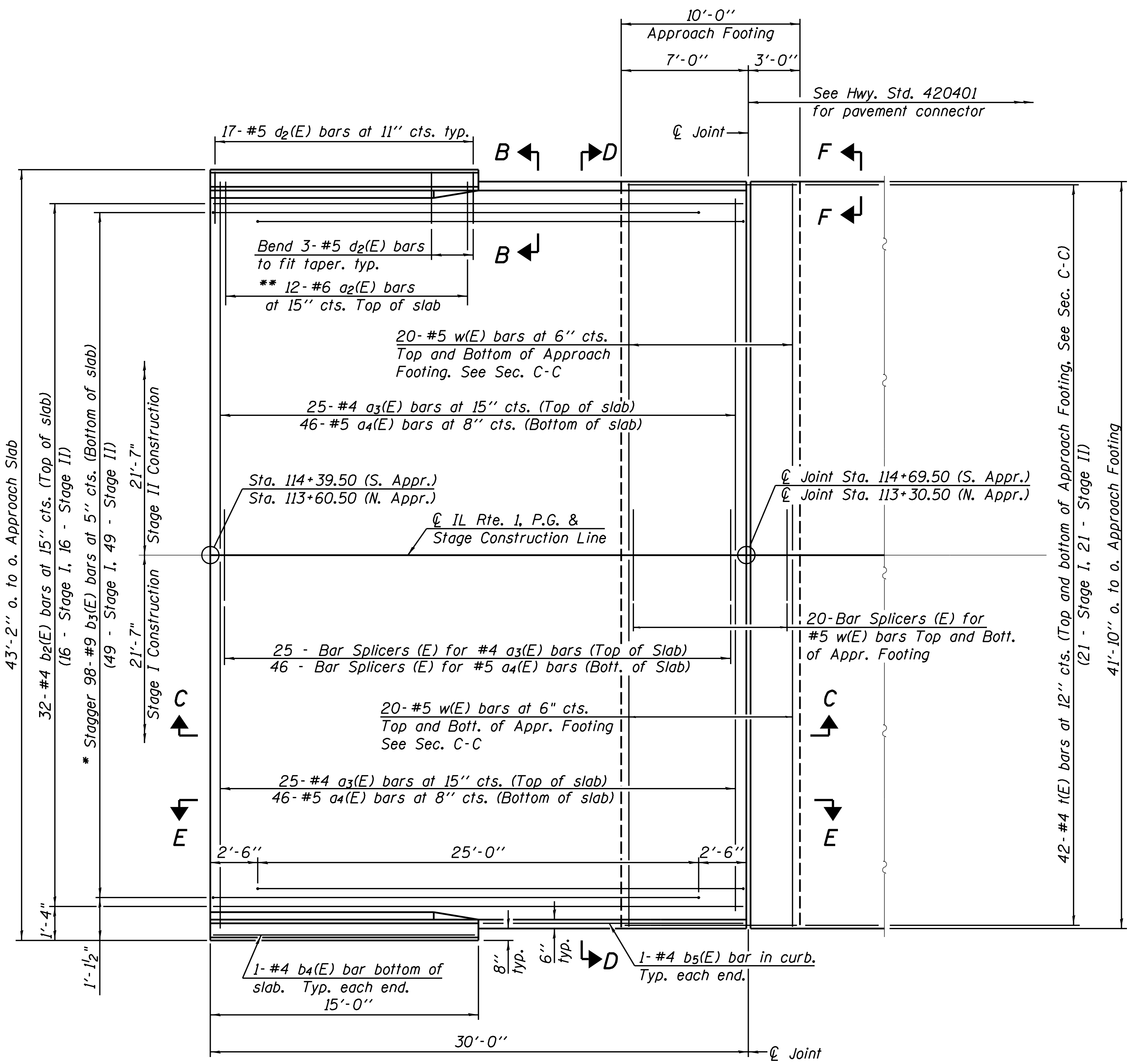


SECTION A-A

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTEGRAL ABUTMENT DIAPHRAGM DETAILS STRUCTURE NO. 017-0033	F.A.P. RTE. 332; SECTION (21-Y,21-X)B-1; COUNTY CRAWFORD; TOTAL SHEETS 116; SHEET NO. 37
		CHECKED - GBR	REVISED -			
	PLOT SCALE =	DRAWN - JRP	REVISED -			CONTRACT NO. 74181
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 11 OF 21 SHEETS	ILLINOIS FED. AID PROJECT

Notes:

See sheet 13 of 21 for Sections C-C & D-D and View E-E.
a_3(E) and a_4(E) bar spacings measured along ℄ Rdwy.
The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be ½" for installation purposes.

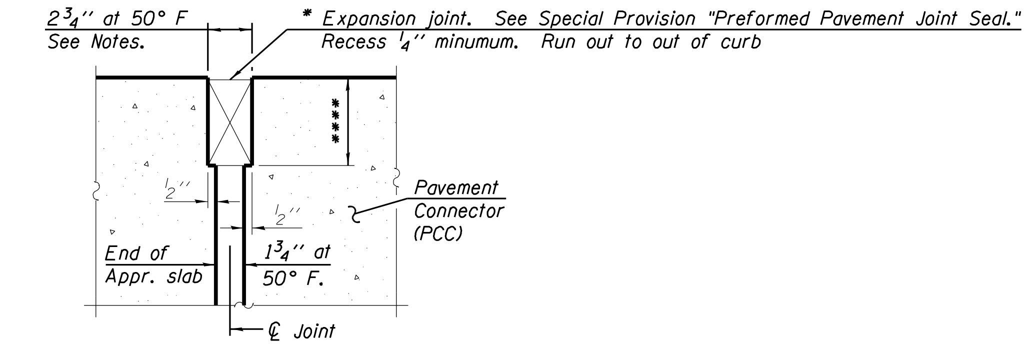


PLAN - SOUTH APPROACH

(North Approach Similar)

* Tilt #9 b_3(E) bars as required to maintain clearance.

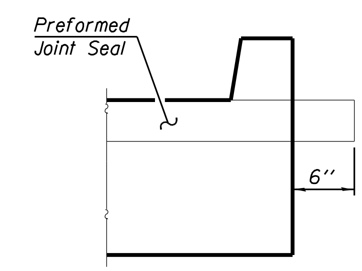
** Space between a_3(E) bars, typ. ea. parapet.



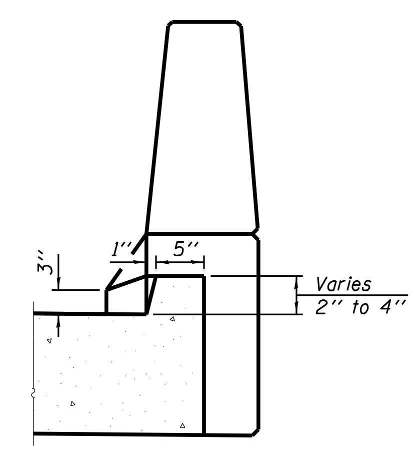
DETAIL A

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

**** Per manufacturer recommendations



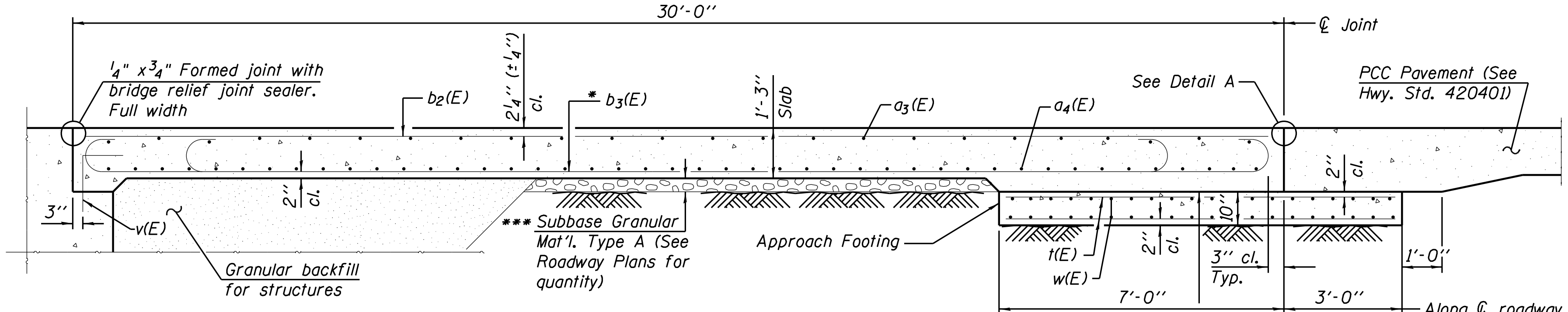
VIEW F-F



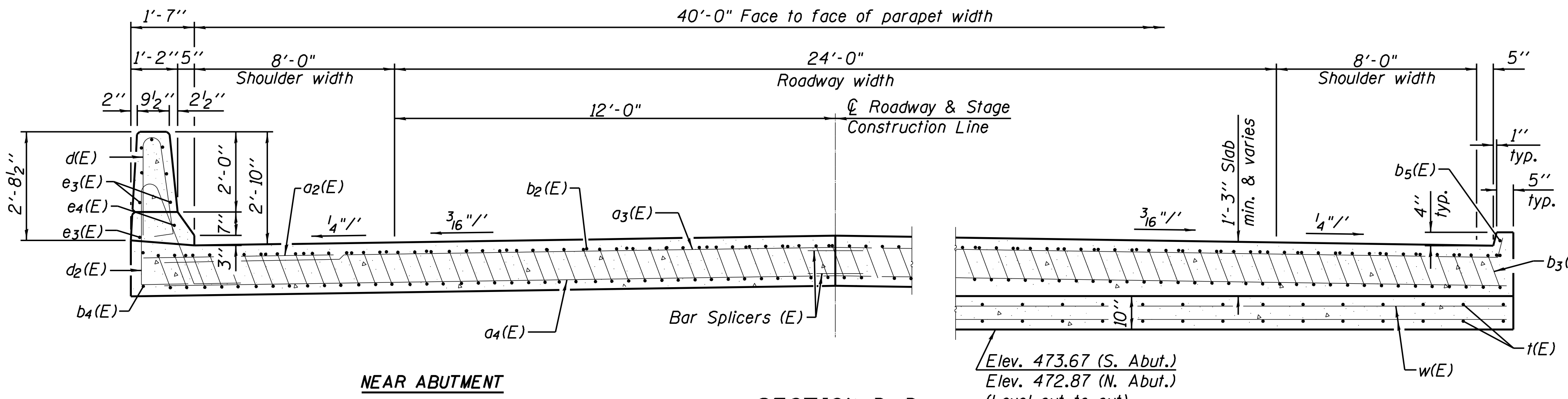
VIEW B-B

(Sheet 1 of 2)

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 017-0033	F.A.P. RTE. 332	SECTION (21-Y,21-X)B-1	COUNTY CRAWFORD
		CHECKED - GBR	REVISED -			TOTAL SHEETS 116	SHEET NO. 38	CONTRACT NO. 74181
	PLOT SCALE =	DRAWN - JRP	REVISED -		SHEET NO. 12 OF 21 SHEETS		ILLINOIS FED. AID PROJECT	
	PLOT DATE =	CHECKED - GBR	REVISED -					



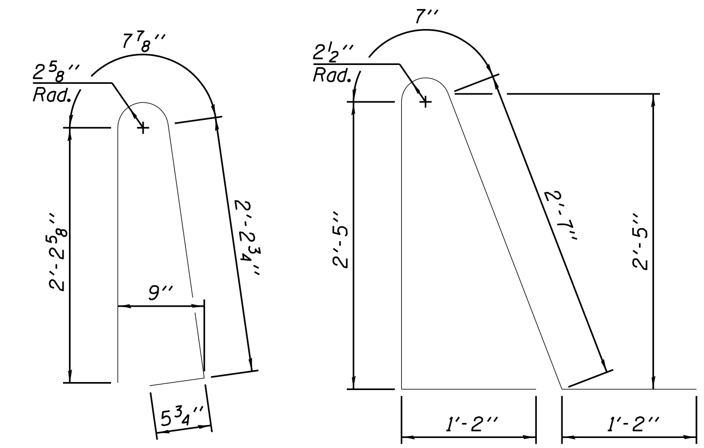
SECTION C-C



SECTION D-D

(See Plan for dimensions not shown)

Notes:
- See sheet 12 of 21 for Detail A and View B-B.
- Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
- Parapet concrete shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For v(E) bar details, see sheet 10 of 21.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- For bar splicer details, see sheet 19 of 21.
- Cost of excavation for approach footing included with Concrete Structures.
- For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 21.
- For additional parapet details, see sheet 10 of 21.



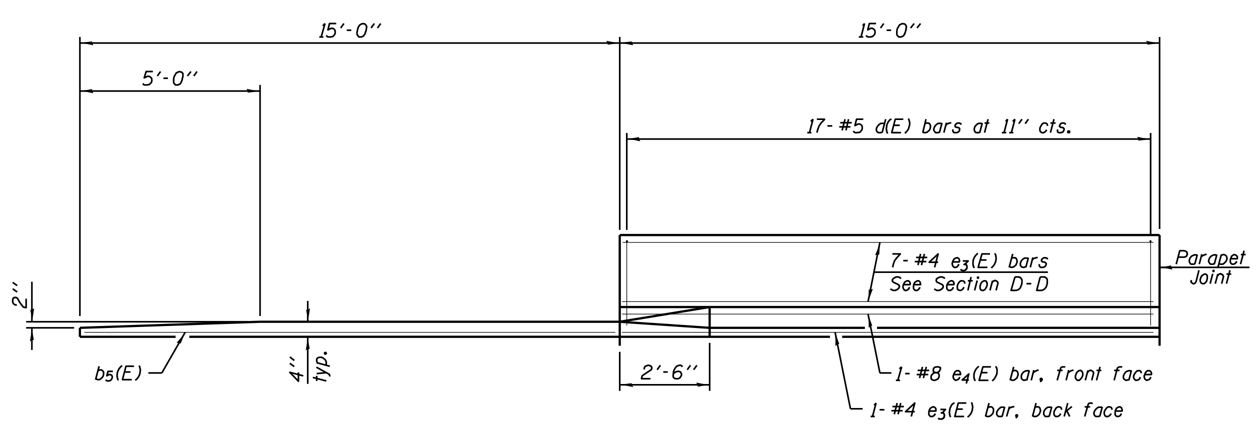
BAR d(E) BAR $d_2(E)$

* Tilt #9 $b_3(E)$ bars as required to maintain clearance.

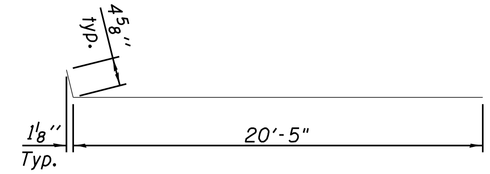
*** Cost included with Concrete Superstructure (Approach Slab).

TWO APPROACHES BILL OF MATERIAL

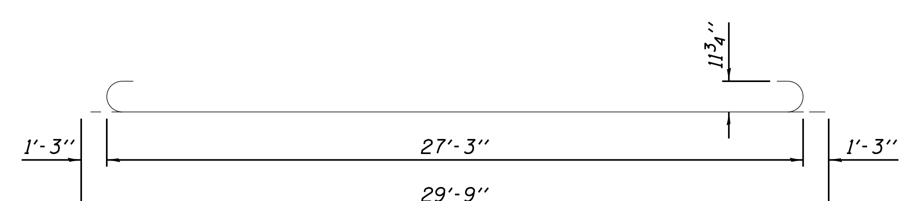
Bar	No.	Size	Length	Shape
$a_2(E)$	48	#6	6'-6"	
$a_3(E)$	100	#4	20'-10"	
$a_4(E)$	184	#5	20'-7"	
$b_2(E)$	64	#4	29'-8"	
$b_3(E)$	196	#9	29'-9"	
$b_4(E)$	4	#4	14'-8"	
$b_5(E)$	4	#4	14'-8"	
d(E)	68	#5	5'-7"	
$d_2(E)$	68	#5	7'-11"	
$e_3(E)$	32	#4	14'-8"	
$e_4(E)$	4	#8	14'-8"	
t(E)	168	#4	9'-8"	
w(E)	160	#5	20'-7"	
Concrete Superstructure			Cu. Yd.	6.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	123.7
Concrete Structures			Cu. Yd.	25.8
Reinforcement Bars, Epoxy Coated			Pound	32930



VIEW E-E



BAR $a_3(E)$

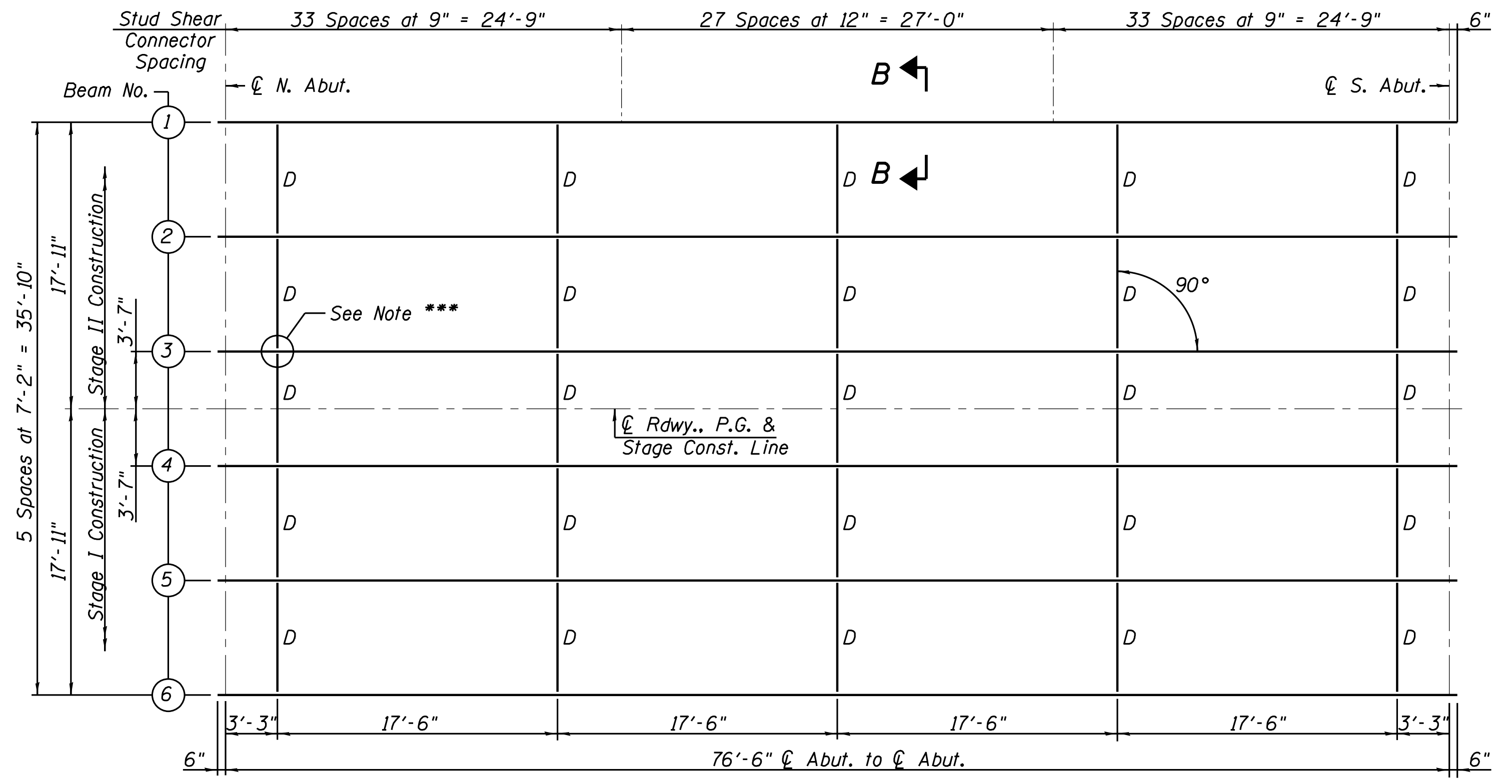


BAR $b_3(E)$

(See Sheet 2 of 2)

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 017-0033
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRP	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 13 OF 21 SHEETS

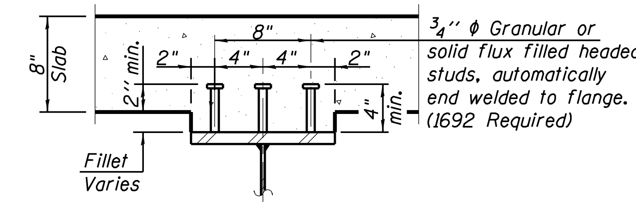
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	39
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



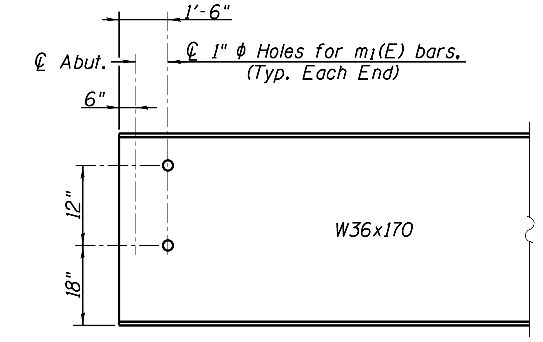
FRAMING PLAN

All beams are W36x170, AASHTO M 270, Grade 50, CVN.

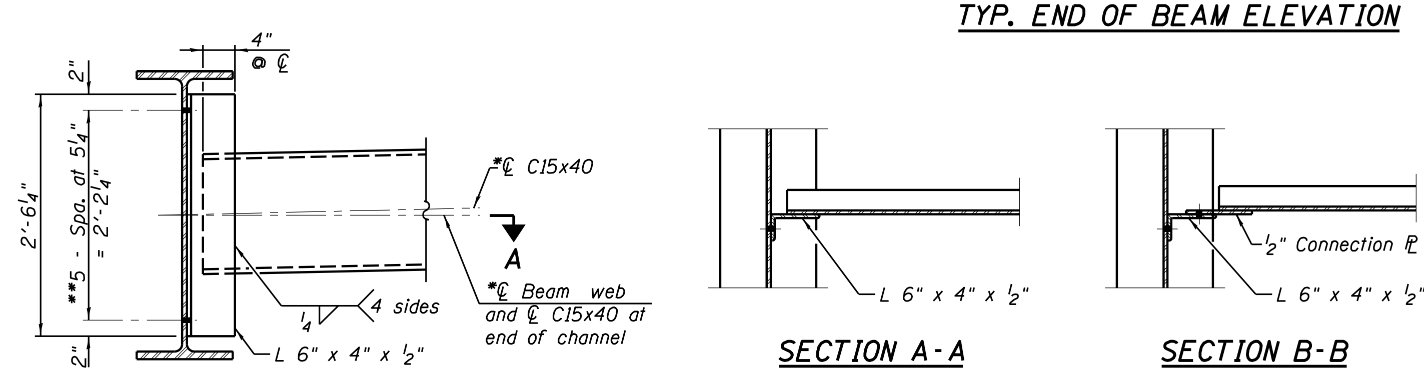
Notes: "CVN" denotes Charpy-V-Notch impact energy requirements, Zone 2.



SECTION B-B



TYP. END OF BEAM ELEVATION

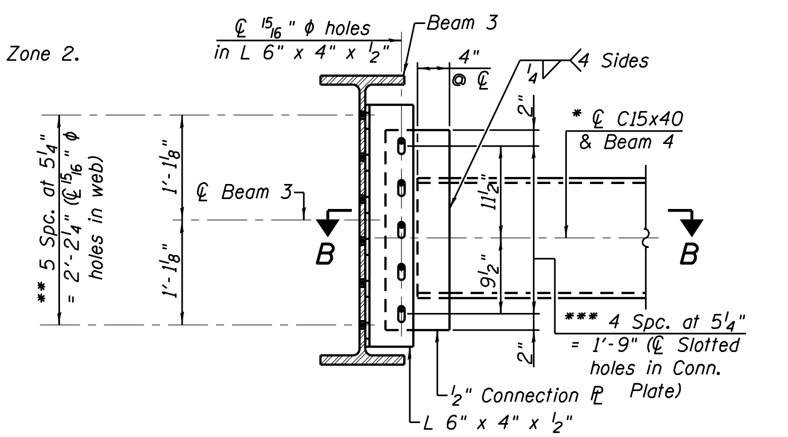


SECTION A-A

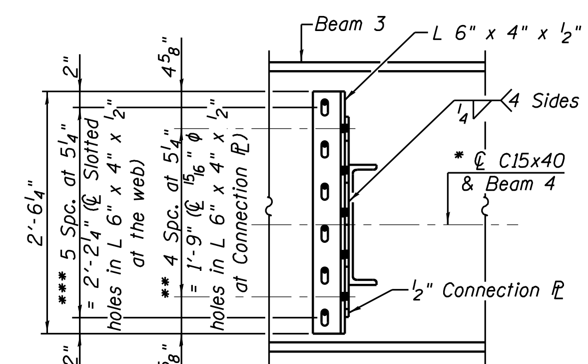
SECTION B-B

DIAPHRAGM D

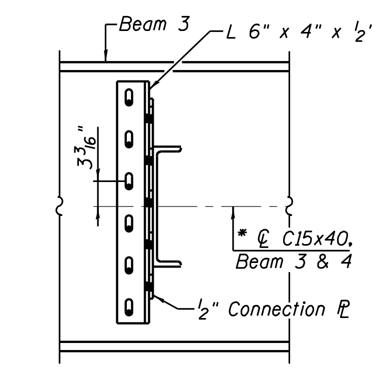
(Except West Side Beam 3)



INITIAL BOLT ERECTION POSITION



INITIAL BOLT ERECTION POSITION



FINAL ERECTION POSITION AFTER STAGE II DECK POUR

DIAPHRAGM D

(West Side Beam 3)
(At Maximum Differential Deflection Location Between Beams 3 & 4)

**** TOP OF BEAM ELEVATIONS

Location	℄ N. Abut.	℄ S. Abut.
Beam 1	474.45	474.89
Beam 2	474.60	475.03
Beam 3	474.71	475.15
Beam 4	474.71	475.15
Beam 5	474.60	475.03
Beam 6	474.45	474.89

**** For Fabrication Only

Notes:

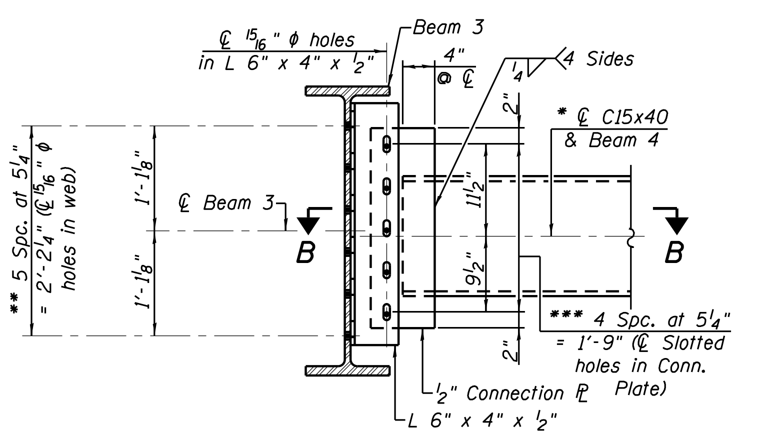
Two hardened washers required for each set of oversized holes.

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

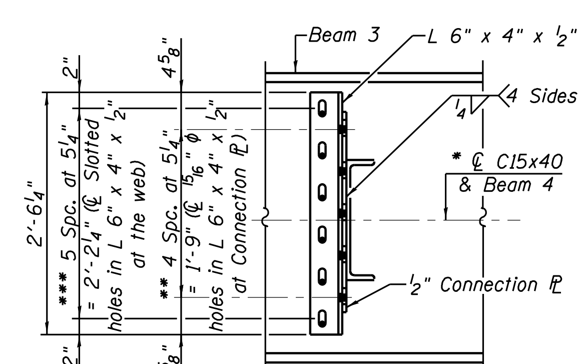
** ¾" HS bolts, 15/16"ϕ holes

***¾" ϕ HS bolts with 13/16" x 1⅞" vertical slotted holes in the angle at the web and in the connection plate on the south side of Beam 3. Provide 5/16" plate washers for slotted holes. Bolts in slotted holes shall be finger tightened until the second stage pour is completed. At the maximum differential deflection location, position slots so bolts move from one end with no concrete load to the opposite end under the deck load. The slotted holes in the angle and connection plate shall be positioned as shown to allow the bolts to move to the final erection positions under deck load. The holes shall be positioned to allow maximum bolt displacement without laterally stressing the girders.

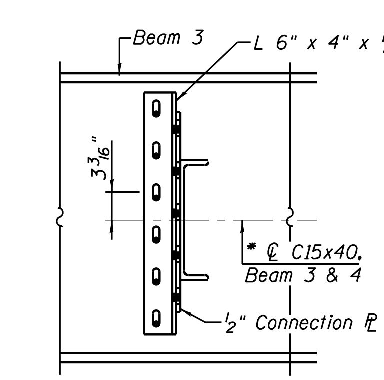
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



INITIAL BOLT ERECTION POSITION



INITIAL BOLT ERECTION POSITION



FINAL ERECTION POSITION AFTER STAGE II DECK POUR

DIAPHRAGM D

(West Side Beam 3)
(At Minimum Differential Deflection Location Between Beams 3 & 4)

V&K
Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

USER NAME =	DESIGNED - JRS	REVISED -	
	CHECKED - GBR	REVISED -	
PLOT SCALE =	DRAWN - JRP	REVISED -	
PLOT DATE =	CHECKED - GBR	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NO. 017-0033

SHEET NO. 14 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	40

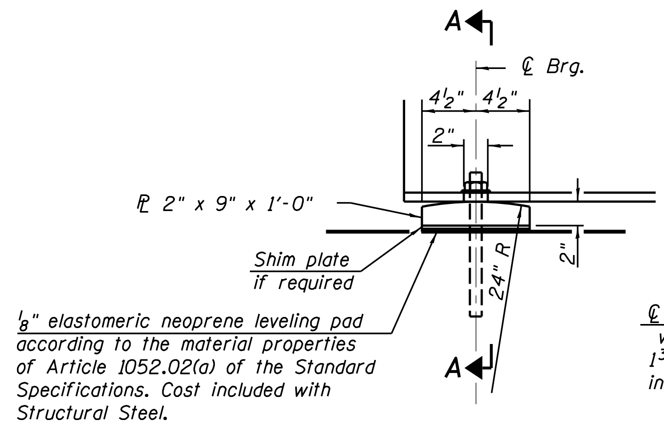
CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT

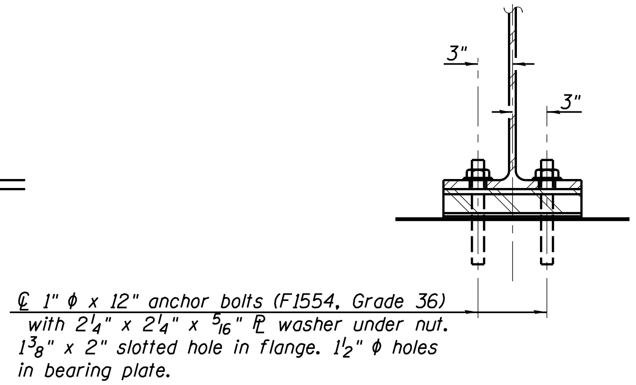
INTERIOR GIRDER MOMENT TABLE		
		0.5 Span
I_s	(in^4)	10500
$I_c(n)$	(in^4)	25689
$I_c(3n)$	(in^4)	18885
S_s	(in^3)	581
$S_c(n)$	(in^3)	817
$S_c(3n)$	(in^3)	739
DC1	(k/')	0.927
M_{DC1}	('k)	678
DC2	(k/')	0.150
M_{DC2}	('k)	110
DW	(k/')	0.359
M_{DW}	('k)	263
M_{LL+IM}	('k)	1179
M_u (Strength I)	('k)	3443
$\phi_f M_n$	('k)	4136
f_s DC1	(ksi)	14.0
f_s DC2	(ksi)	1.8
f_s DW	(ksi)	4.3
f_s (LL+IM)	(ksi)	17.3
f_s (Service II)	(ksi)	42.6
$0.95R_hF_{yf}$	(ksi)	47.5
f_s (Total)(Strength I)	(ksi)	- -
$\phi_f F_n$	(ksi)	- -
V_f	(k)	25.5

INTERIOR GIRDER REACTION TABLE		
		Abut.
R_{DC1}	(k)	35.5
R_{DC2}	(k)	5.7
R_{DW}	(k)	13.7
R_{LL+IM}	(k)	82.4
R_{Total}	(k)	137.3

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.^{4} and in.^{3}).
$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in.^{4} and in.^{3}).
$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in.^{4} and in.^{3}).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: 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.).
M_{DC2}: 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.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_{LL+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u (Strength I): Factored design moment (kip-ft.).
$1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{LL+IM}$
$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).
f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}
f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
$M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
f_s (LL+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
$M_{LL+IM} / S_c(n)$ or $M_{LL+IM} / S_c(cr)$ as applicable.
f_s (Service II): Sum of stresses as computed below (ksi).
$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_{sLL+IM}$
$0.95R_hF_{yf}$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_{sLL+IM}$
$\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
V_f: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



ELEVATION AT ABUTMENT



SECTION A-A

FIXED BEARING AT ABUTMENT

(12 Required)

Notes:

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

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

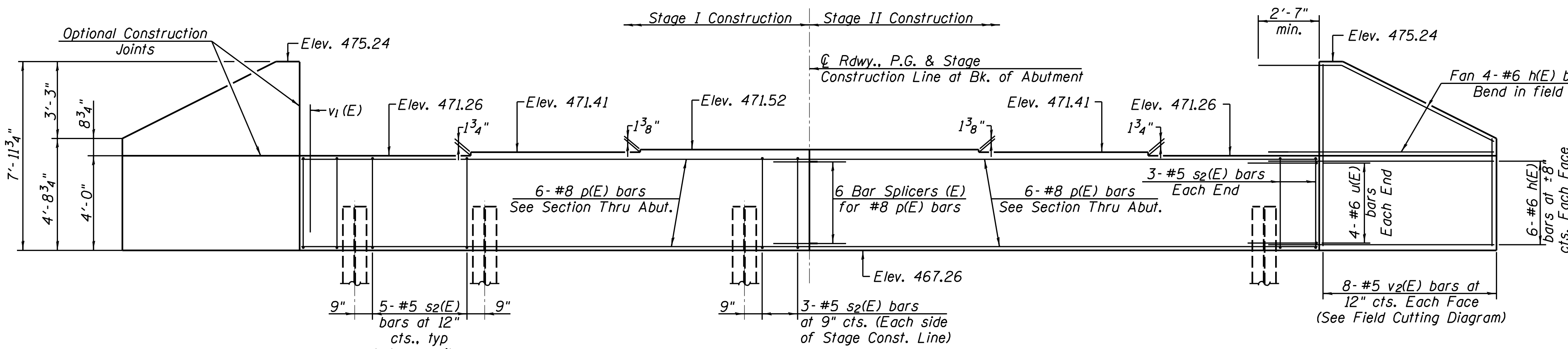
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the bearings shall conform to the requirements of AASHTO M 270 Grade 50

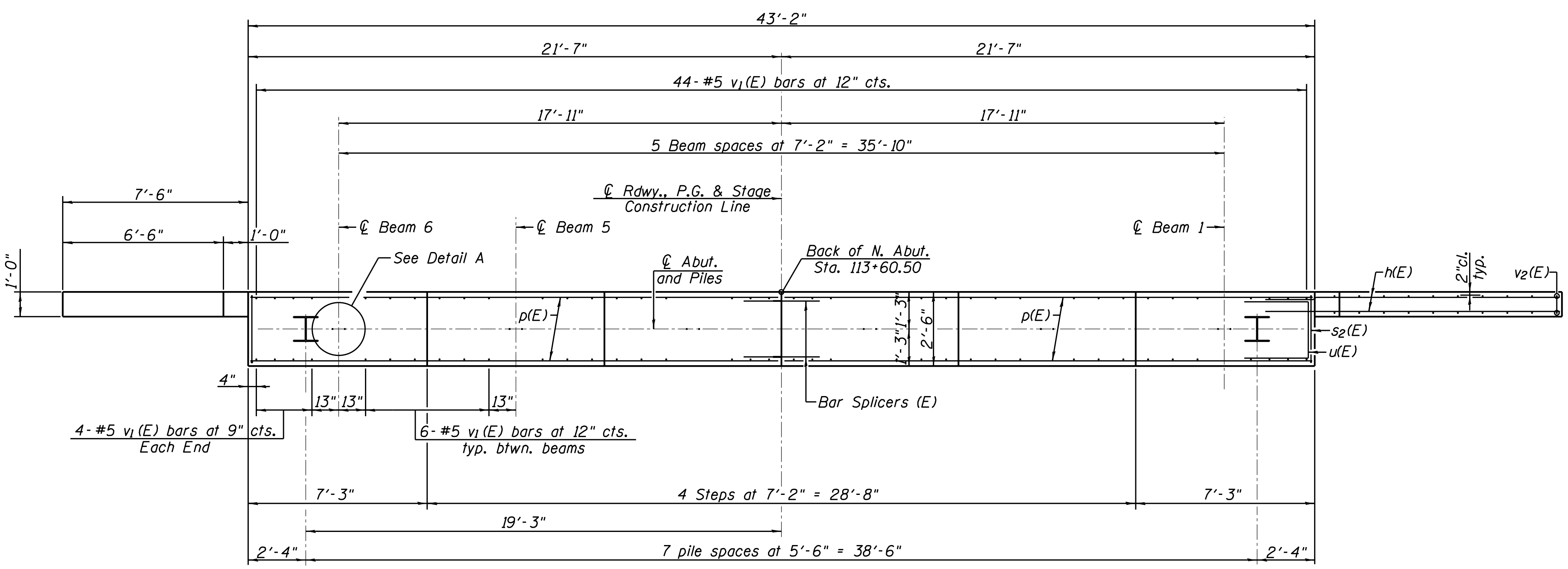
BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	24

Notes:
Pour steps monolithically with cap.



ELEVATION
(Looking North)

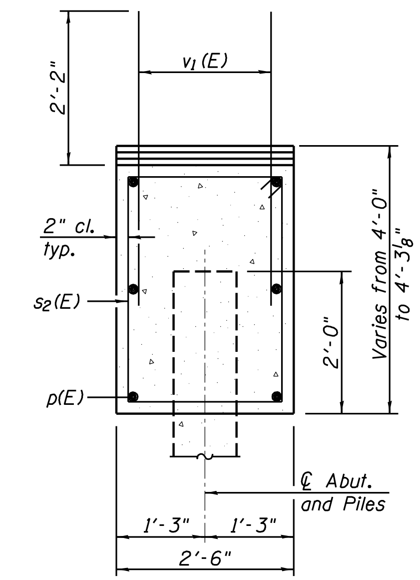


PLAN

N

PILE DATA

Type: HP10x42
Nominal Required Bearing: 335 Kips
Factored Resistance Available: 184 Kips
Est. Length: 39 ft.
No. Production Piles: 7
No. Test Piles: 1

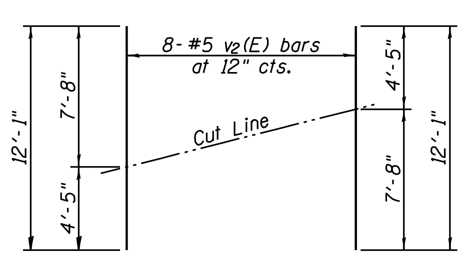


SEC. THRU ABUT.

BILL OF MATERIAL

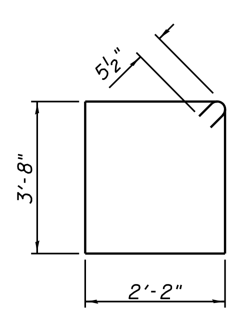
Bar	No.	Size	Length	Shape
h(E)	40	#6	10'-0"	
p(E)	12	#8	21'-3"	
s2(E)	42	#5	12'-7"	
u(E)	8	#6	8'-0"	
v1(E)	82	#5	4'-4"	
v2(E)	16	#5	12'-1"	
Structure Excavation		Cu. Yd.	28	
Concrete Structures		Cu. Yd.	20.2	
Reinforcement Bars, Epoxy Coated		Pound	2510	
Furnishing Steel Piles HP10x42		Foot	273	
Driving Piles		Foot	273	
Test Pile Steel HP10x42		Each	1	

For details of bar splicers see sheet 19 of 21.
For details of piles see sheet 18 of 21.

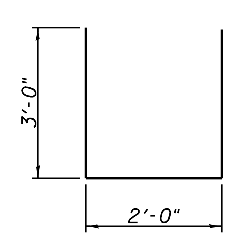


FIELD CUTTING DIAGRAM

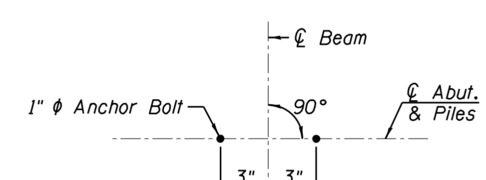
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



BAR u(E)

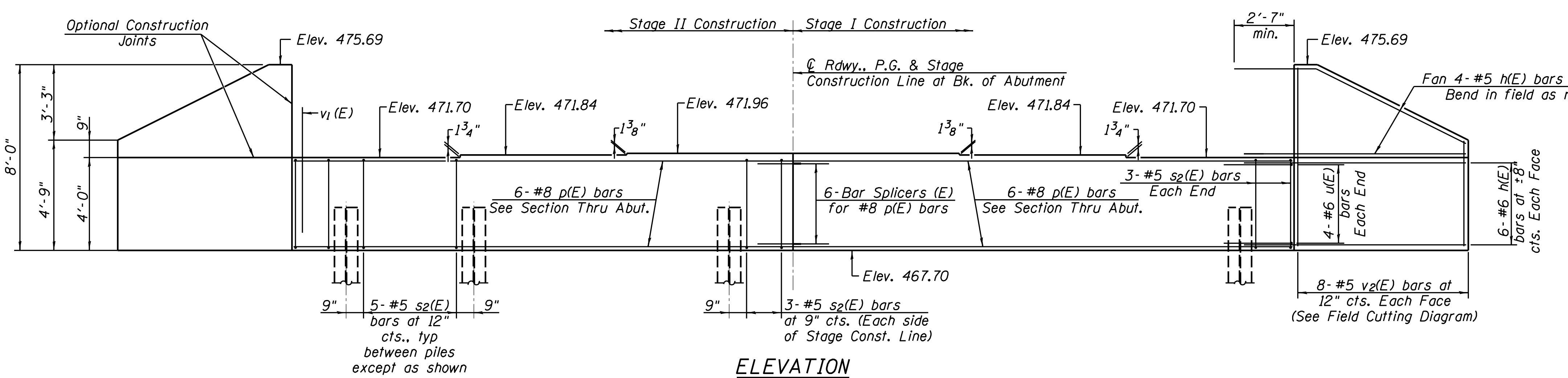


DETAIL A

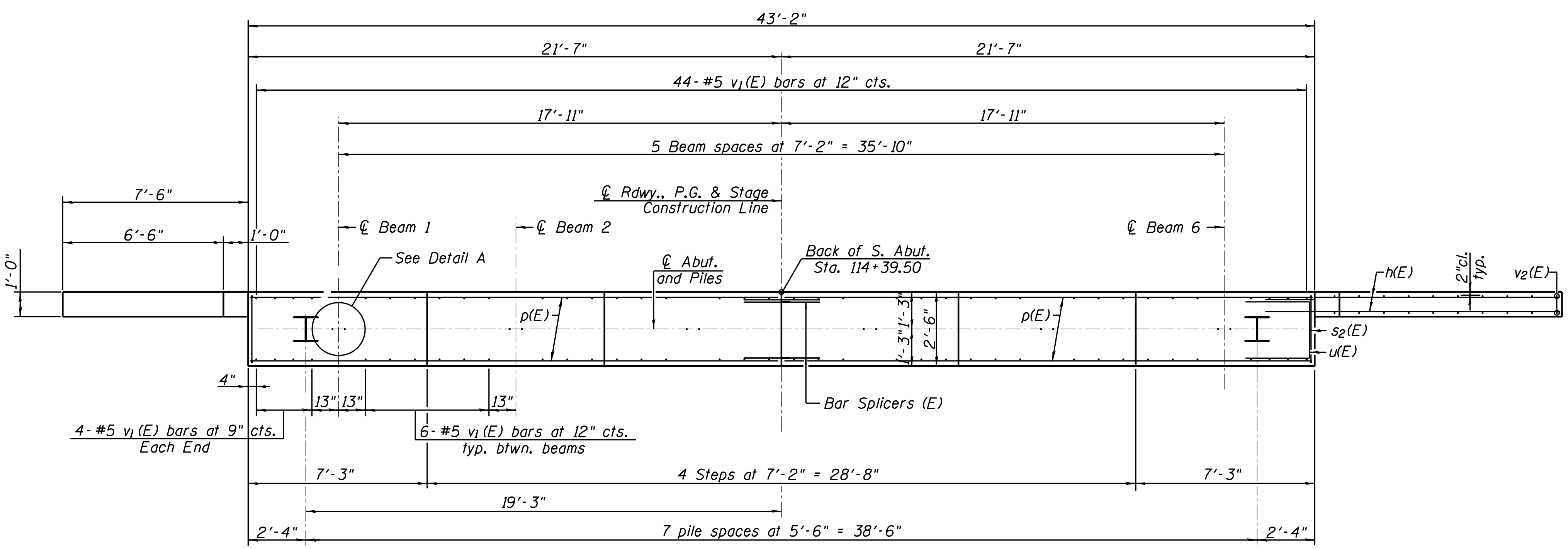
V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH ABUTMENT STRUCTURE NO. 017-0033
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRP	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 16 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	42
		CONTRACT NO. 74181		
	ILLINOIS FED. AID PROJECT			

Notes:
Pour steps monolithically with cap.



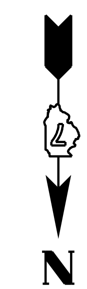
ELEVATION
(Looking South)

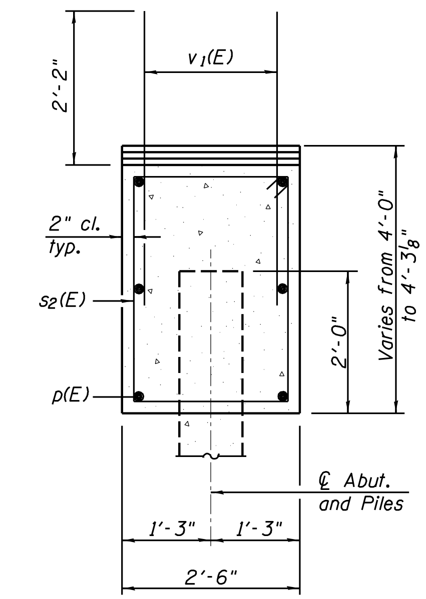


PLAN

PILE DATA

Type: HP10x42
Nominal Required Bearing: 332 Kips
Factored Resistance Available: 183 Kips
Est. Length: 31 ft.
No. Production Piles: 7
No. Test Piles: 1





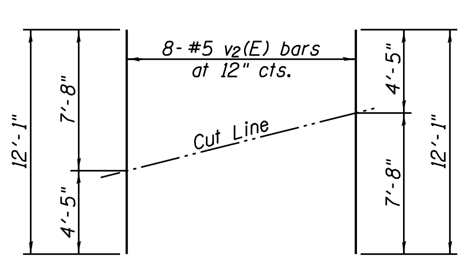
SEC. THRU ABUT.

BILL OF MATERIAL

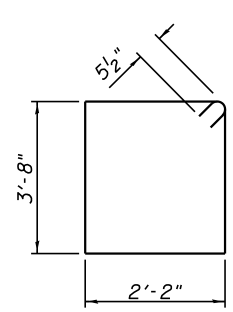
Bar	No.	Size	Length	Shape
h(E)	40	#6	10'-0"	
p(E)	12	#8	21'-3"	
s2(E)	42	#5	12'-7"	
u(E)	8	#6	8'-0"	
v1(E)	82	#5	4'-4"	
v2(E)	16	#5	12'-1"	

Structure Excavation	Cu. Yd.	28
Concrete Structures	Cu. Yd.	20.2
Reinforcement Bars, Epoxy Coated	Pound	2510
Furnishing Steel Piles HP10x42	Foot	217
Driving Piles	Foot	217
Test Pile Steel HP10x42	Each	1

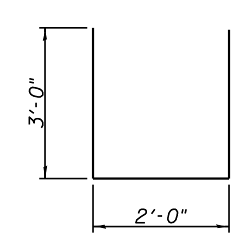
For details of bar splicers, see sheet 19 of 21.
For details of piles see sheet 18 of 21.



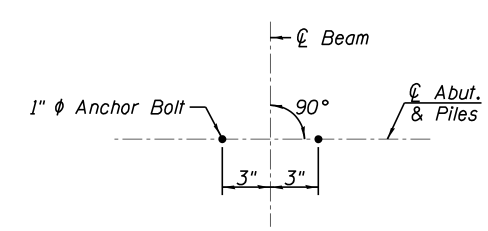
FIELD CUTTING DIAGRAM
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



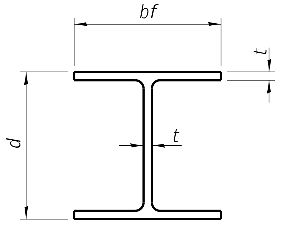
BAR u(E)



DETAIL A

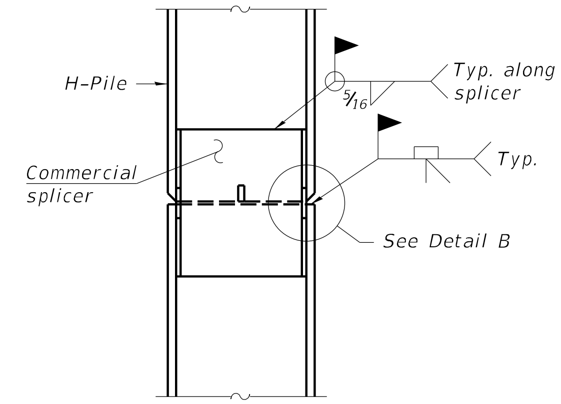
Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH ABUTMENT STRUCTURE NO. 017-0033
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRP	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 17 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	43
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

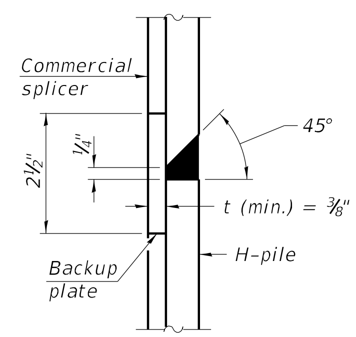


STEEL PILE TABLE

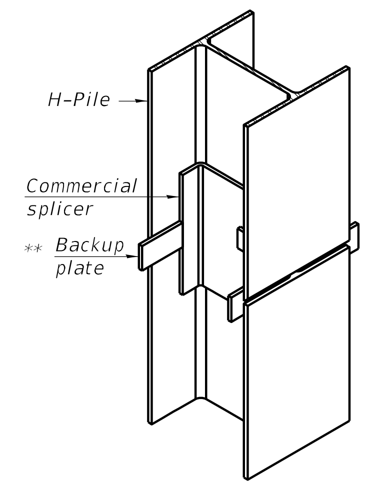
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14¼"	14⅞"	13/16"	30"
x102	14"	14¾"	11/16"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	11/16"	24"
x74	12⅛"	12¼"	⅝"	24"
x63	12"	12⅛"	½"	24"
x53	11¾"	12"	7/16"	24"
HP 10x57	10"	10¼"	9/16"	24"
x42	9¾"	10⅛"	7/16"	24"
HP 8x36	8"	8⅛"	7/16"	18"



ELEVATION

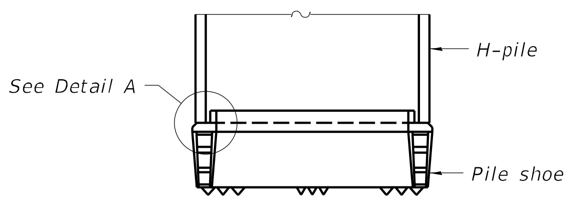


DETAIL "B"

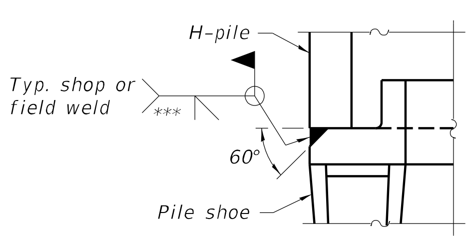


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



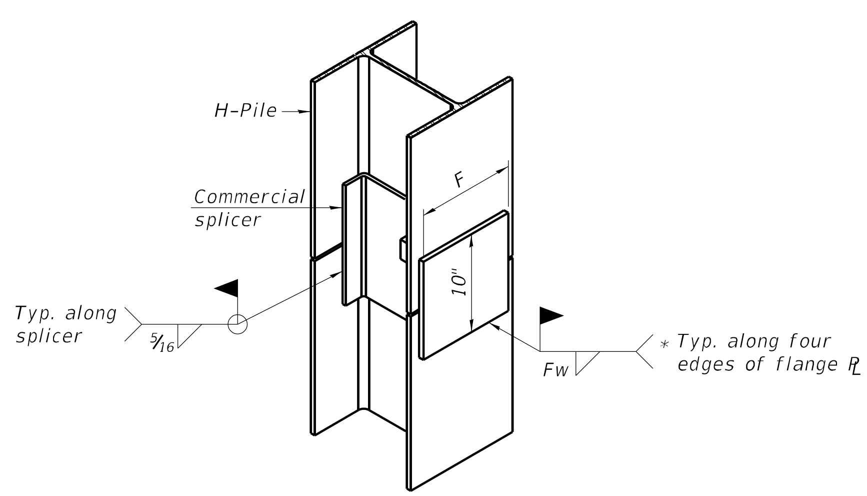
ELEVATION



DETAIL A

SHOE ATTACHMENT

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



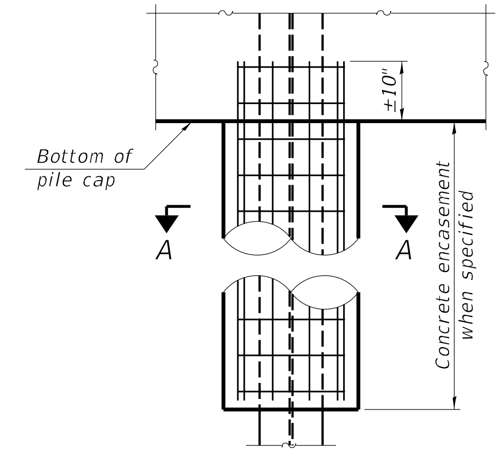
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

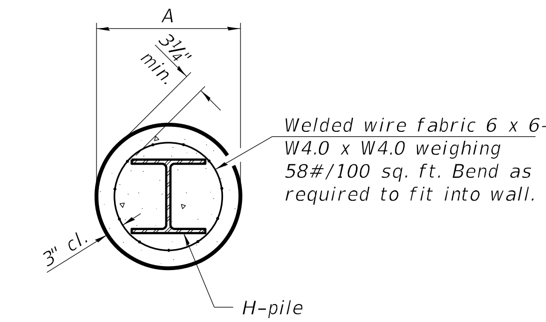
* Interrupt welds ¼" from end of web and/or each flange.

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

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



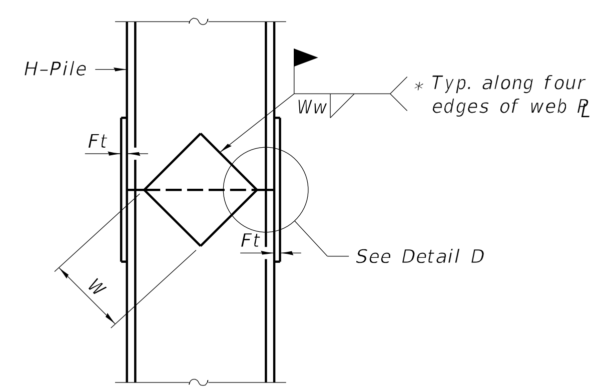
ELEVATION



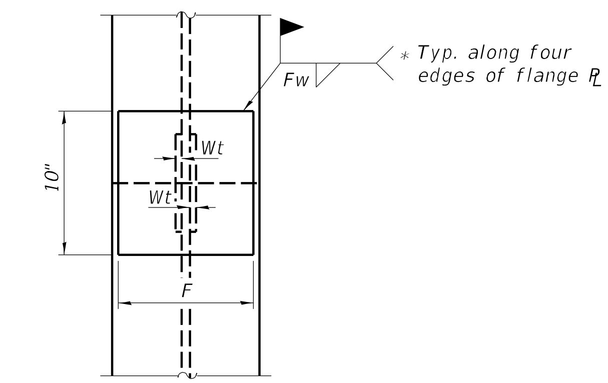
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

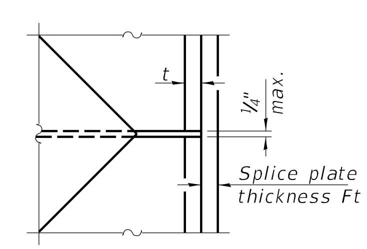
(Forms for encasement may be omitted when soil conditions permit).



ELEVATION



END VIEW

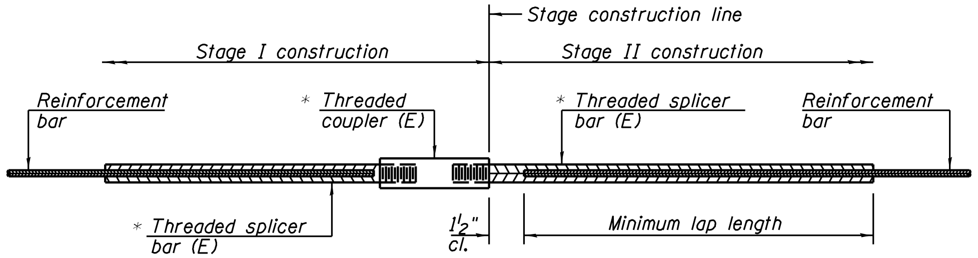


DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	11/16"	7¾"	⅝"	½"
x73	12½"	⅝"	9/16"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	11/16"	6½"	⅝"	½"
x74	10"	⅞"	11/16"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅝"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	9/16"	5¼"	½"	⅜"
x42	8"	⅝"	9/16"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	7/16"	4¼"	½"	⅜"

WELDED PLATE FIELD SPLICE

F-HP 8-11-2017

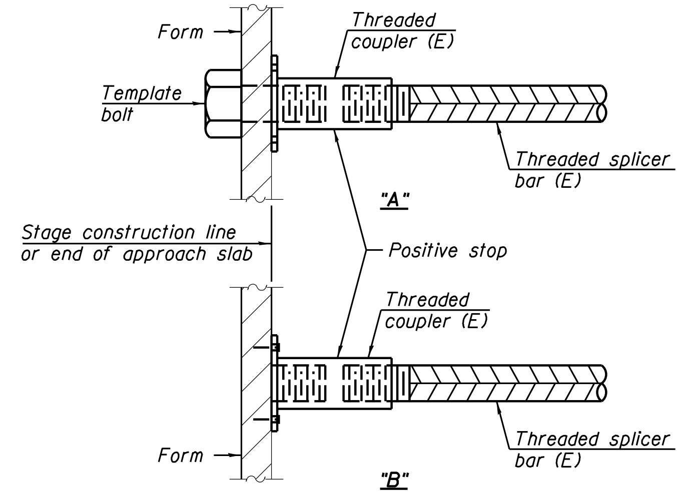


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

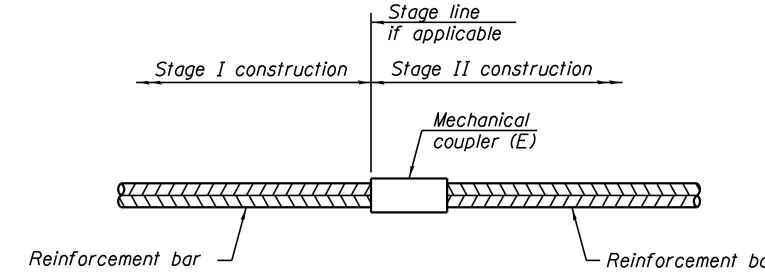
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
N Appr Footing	5	40	3'-9"
N Abut Cap	8	6	5'-1"
N Abut Diaph	6	8	3'-10"
S Appr Footing	5	40	3'-9"
S Abut Cap	8	6	5'-1"
S Abut Diaph	6	8	3'-10"
Top of Deck	5	158	3'-9"
Bottom of Deck	5	95	3'-9"
N Appr Slab (Top)	5	46	3'-9"
N Appr Slab (Bott)	8	60	5'-1"
S Appr Slab (Top)	5	46	3'-9"
S Appr Slab (Bott)	8	60	5'-1"



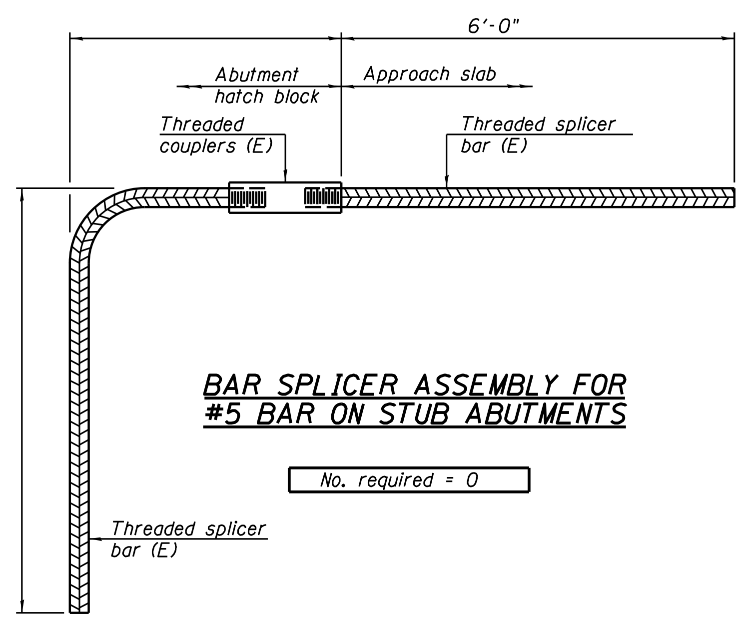
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 0

NOTES

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

BSD-1 2-17-2017

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3

Date 8/13/09

ROUTE FAP 332 (IL 1) DESCRIPTION Sugar Creek LOGGED BY E. Sandschafer

SECTION (21-X-NRH-BY)B-1 LOCATION R12W, Sec 24, NE 1/4; R11E, Sec 19, NW 1/4, SEC., TWP. 7N, RNG., 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0003
Station 114+00

BORING NO. 1 N Abut
Station 113+58
Offset 15.00ft Lt
Ground Surface Elev. 474.15 ft

Surface Water Elev. 457.54 ft
Stream Bed Elev. 457.16 ft

Groundwater Elev.:
First Encounter 446.7 ft
Upon Completion 464.5 ft
After 168 Hrs. 460.8 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8" mixture of aggregate shoulder, cinders and sandy clay.	473.45				
Stiff, damp, red mottled gray, SILTY CLAY.			4		
			7	1.5	17
	469.65		6	B	
Soft, damp, gray, SILTY LOAM.		-5	1		
			0	0.4	22
			0	B	
			0		
			0	0.3	21
			0	B	
		-10	0		
			1	0.4	25
	462.15		0	B	
Very soft, very damp, gray, SANDY LOAM.			0		
			0	0.1	25
			0	B	
	458.95	-15	0		
Medium, damp, red marbled gray, CLAY.			0	0.6	31
			1	B	
			0		
			0	0.8	22
			0	B	
		-20	0		
Medium, damp, red marbled gray, CLAY. *(continued)*			1	0.8	26
			2	B	
			1		
			1	0.8	25
	450.85		2	B	
Very soft, very damp, gray, SANDY LOAM.		-25	0		
			0	0.1	14
			4	S	
			0		
			2	0.1	16
	444.65		0	S	
Medium, damp, gray, SANDY CLAY.		-30	0		
			3	0.4	13
	439.65		4	B	
Very stiff, damp, gray, SANDY CLAY LOAM TILL.		-35	12		
			16	3.6	9
	434.65		14	B	
		-40	39		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 3

Date 8/13/09

ROUTE FAP 332 (IL 1) DESCRIPTION Sugar Creek LOGGED BY E. Sandschafer

SECTION (21-X-NRH-BY)B-1 LOCATION R12W, Sec 24, NE 1/4; R11E, Sec 19, NW 1/4, SEC., TWP. 7N, RNG., 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0003
Station 114+00

BORING NO. 1 N Abut
Station 113+58
Offset 15.00ft Lt
Ground Surface Elev. 474.15 ft

Surface Water Elev. 457.54 ft
Stream Bed Elev. 457.16 ft

Groundwater Elev.:
First Encounter 446.7 ft
Upon Completion 464.5 ft
After 168 Hrs. 460.8 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very dense, moist, gray, CLAY SHALE. *(continued)*	433.65		50/3"		8
			50/2"		
Borehole continued with rock coring.		-45			
		-50			
		-55			
		-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 3 of 3

Date 8/13/09

ROUTE FAP 332 (IL 1) DESCRIPTION Sugar Creek LOGGED BY E. Sandschafer

SECTION (21-X-NRH-BY)B-1 LOCATION R12W, Sec 24, NE 1/4; R11E, Sec 19, NW 1/4, SEC., TWP. 7N, RNG., 3 PM

COUNTY Crawford CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 017-0003
Station 114+00

BORING NO. 1 N Abut
Station 113+58
Offset 15.00ft Lt
Ground Surface Elev. 474.15 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner

Core Diameter 2.06 in
Top of Rock Elev. 434.65 ft
Begin Core Elev. 433.65 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray, slight to moderate weathered, SILTY CLAY SHALE.	433.65		B1C1	83	82	1.2	
Rock core B1C1 from 44.2' to 44.7' depth, Qu = 4.2 tsf.		-45					
			B1C2	99	80	1.1	
Rock core B1C2 from 49.2' to 49.7' depth, Qu = 21 tsf.		-50					
	423.65						
Extent of exploration.							
Benchmark: BM 110 Cut square on NW wingwall of existing structure, Sta 113+79, 24' Rt = 475.36' elevation. Provided by Program Development.		-55					
		-60					

Color pictures of the cores Available on request
Cores will be stored for examination until 08/13/2014
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 8/12/09

ROUTE FAP 332 (IL 1) DESCRIPTION Sugar Creek LOGGED BY E. Sandschafer

SECTION (21-X-NRH-BY)B-1 LOCATION R12W, Sec 24, NE 1/4; R11E, Sec 19, NW 1/4, SEC., TWP. 7N, RNG., 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0003
Station 114+00

BORING NO. 2 S Abut
Station 114+42
Offset 12.00ft Rt
Ground Surface Elev. 475.39 ft

Surface Water Elev. 457.54 ft
Stream Bed Elev. 457.16 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 24 Hrs. 461.4 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 1/2" asphalt on 7 1/2" concrete pavement.	474.39				
Soft to medium, damp, gray, SILTY CLAY.			1		
			1	0.4	28
			1	B	
		-5	0		
			1	0.6	16
			1	PP	
			0		
			0	0.6	16
			1	B	
	465.89				
Very soft, damp, gray, SILTY LOAM.		-10	0		
			0	0.2	25
			0	B	
			0		
			1	0.3	22
			0	B	
	460.89				
Medium, damp, brown mottled gray, SANDY CLAY TILL.		-15	6		
			2	0.7	11
			3	B	
			6		
			10	1.0	9
			20	BS	
	455.89	-20	24		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, damp, gray, SANDY CLAY LOAM TILL. *(continued)*			35	4.5	7
			48	BS	
			24		
			50	+4.5	6
			50/5"	PP	
		-25	22		
			30	+4.5	7
			38	PP	
			17		
			29	7.8	7
			36	S	
		-30	16		
			27	6.6	7
			39	S	
		-35	18		
			35	6.7	7
			50	S	
	435.89	-40	60		

Latitude W 37 deg ' ' .080 min, Longitude N 39 deg 02.318 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 8/12/09

ROUTE FAP 332 (IL 1) DESCRIPTION Sugar Creek LOGGED BY E. Sandschafer

SECTION (21-X-NRH-BY)B-1 LOCATION R12W, Sec 24, NE 1/4; R11E, Sec 19, NW 1/4, SEC., TWP. 7N, RNG., 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0003
Station 114+00

BORING NO. 2 S Abut
Station 114+42
Offset 12.00ft Rt
Ground Surface Elev. 475.39 ft

Surface Water Elev. 457.54 ft
Stream Bed Elev. 457.16 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 24 Hrs. 461.4 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very dense, moist, gray, SILTY CLAY SHALE. *(continued)*			50/4"		8
			50/2"		
	430.29	-45	50/4"		
Extent of exploration.			50/2"		7
			50/1"		
Benchmark: BM 110 Cut square on NW wingwall of existing structure, Sta 113+79, 24' Rt = 475.36' elevation. Provided by Program Development.					
		-50			
		-55			
		-60			

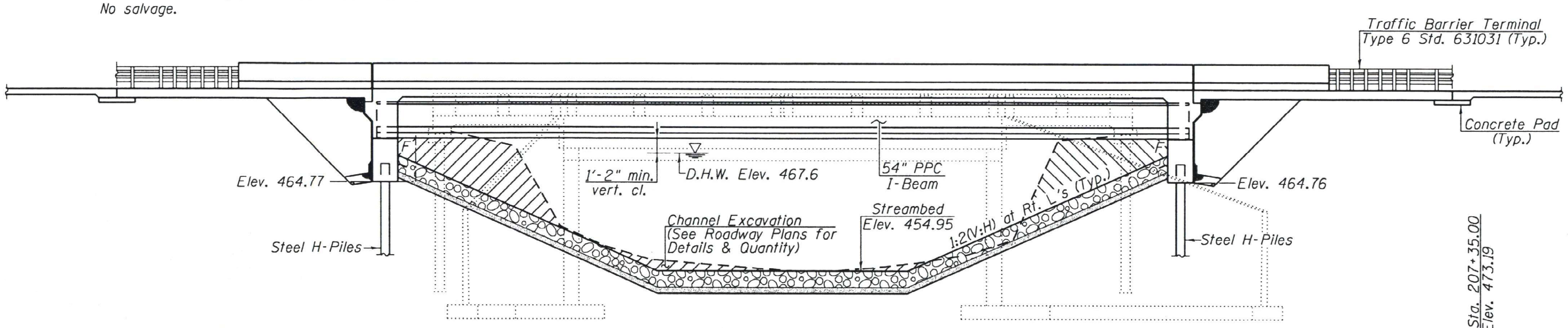
Latitude W 37 deg ' ' .080 min, Longitude N 39 deg 02.318 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

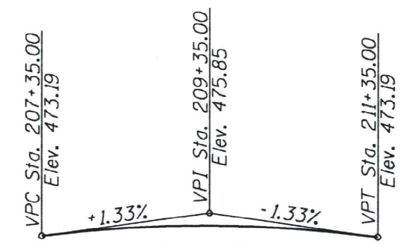
BBS, from 137 (Rev. 8-99)

Benchmark: Railroad spike in power pole located northwest of structure 017-0004
Station 207+95, 38' Rt., Elevation 468.43

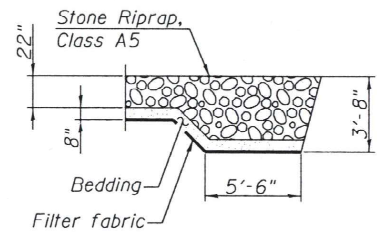
Existing Structure: S.N. 017-0004 was built in 1935 as part of SBI-1 Sec. 21-X-NRH at Sta. 209+35. In 1959, under SBI-1 Section 21X-NRH-BY, the superstructure was widened. Existing structure is a single span concrete T-Beam on closed abutments, 48'-4½" bk. to bk. abutments, 36'-4" out to out with a 27°-10' right forward skew. Existing structure is to be removed and replaced with construction taking place under road closure.
No salvage.



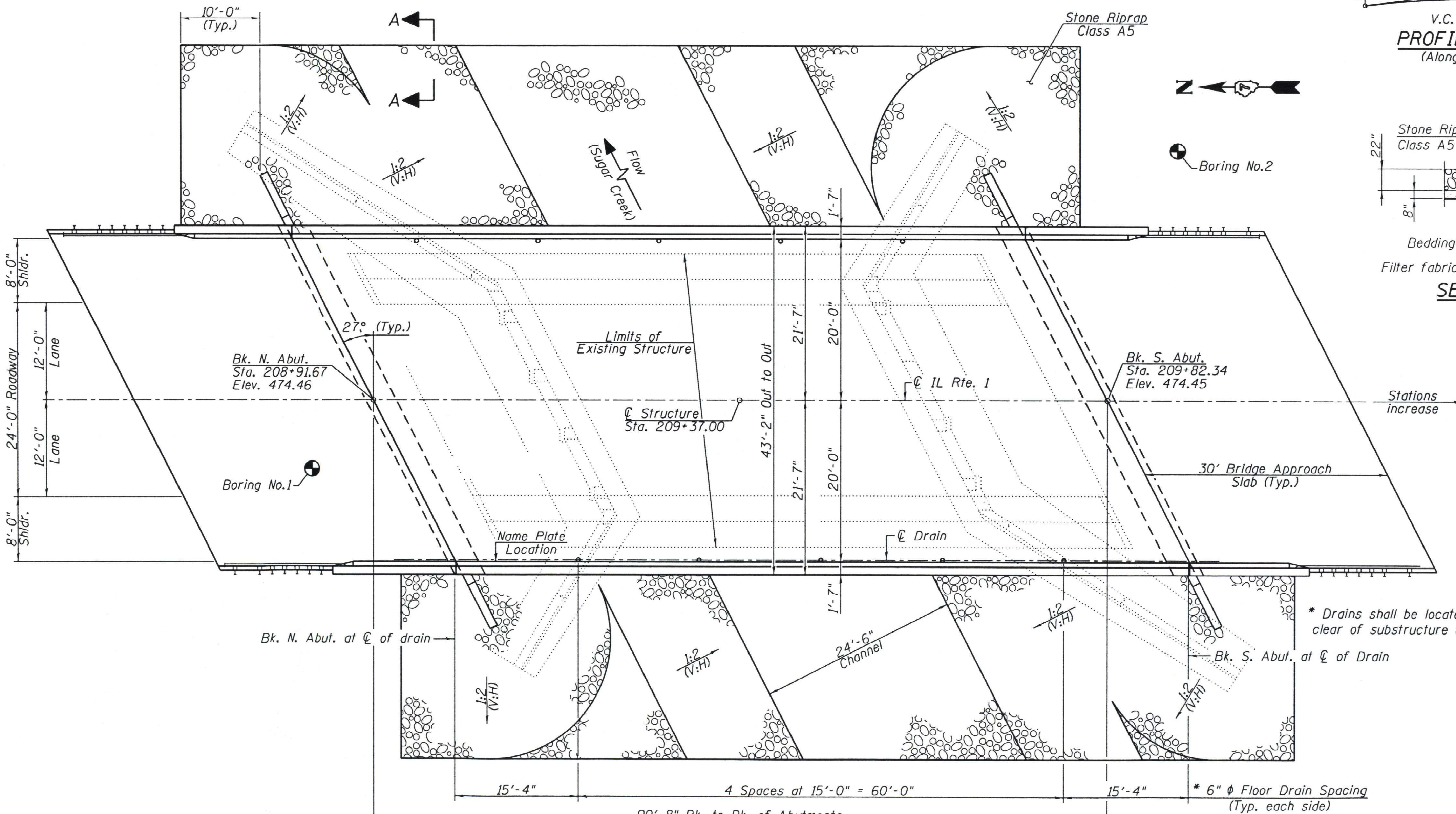
ELEVATION



PROFILE GRADE
(Along IL Rte. 1)



SECTION A-A



PLAN

* Drains shall be located 10' clear of substructure units.

INDEX OF SHEETS

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications.

DESIGN STRESSES

FIELD UNITS

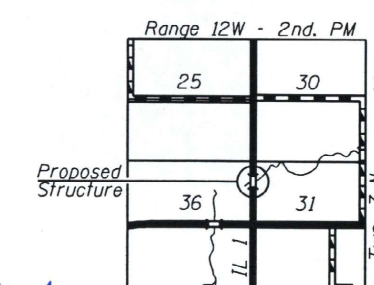
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'_c = 6,000 psi
f'_{ci} = 5,000 psi
f_{pu} = 270,000 psi (½" ϕ low lax. strands)
f_{pbt} = 201,960 psi (½" ϕ low lax. strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.202g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.445g
Soil Site Class = D



LOCATION SKETCH

MARK A. HENDERSON
553
LICENSED
STRUCTURAL
ENGINEER
STATE OF ILLINOIS

Mark A Henderson 1/27/20
Expires 11/30/2020

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

GENERAL PLAN AND ELEVATION
IL ROUTE 1 OVER SUGAR CREEK
F.A.P. ROUTE 332 - SECTION (21-Y,21-X)B-1
CRAWFORD COUNTY
STA. 209+37.00
STRUCTURE NO. 017-0032

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN STRUCTURE NO. 017-0032
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRS	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 1 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	48
		CONTRACT NO. 74181		
	ILLINOIS FED. AID PROJECT			

WATERWAY INFORMATION TABLE

Drainage Area = 10.5 mi.^{2}	Proposed Low Grade Elev. = 471.79 @ Sta. 216+00 Existing Low Grade Elev. = 471.10 @ Sta. 208+50								
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	2136	385	515	465.8	0.2	0.2	466.0	466.0
Design	50	3471	452	652	467.6	1.1	0.4	468.7	468.0
Base	100	4076	452	690	468.0	1.6	1.3	469.6	469.3
Exist. Overtop.	340	5160	452		468.6	2.8		471.4	
Prop. Overtop.									
Max. Calc.	500	5570	452	728	468.8	3.1	1.7	471.9	470.5

10 Year velocity through existing bridge = 5.55 ft/s

10 Year velocity through proposed bridge = 4.15 ft/s

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)	North Abutment	South Abutment
	464.79	464.78

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		1005	1005
Filter Fabric	Sq. Yd.		1005	1005
Removal of Existing Structures No. 1	Each			1
Structure Excavation	Cu. Yd.		64.8	64.8
Floor Drains	Each	10		10
Concrete Structures	Cu. Yd.		77.3	77.3
Concrete Superstructure	Cu. Yd.	165.8		165.8
Concrete Superstructure (Approach Slab)	Cu. Yd.	127.7		127.7
Bridge Deck Grooving	Sq. Yd.	639		639
Protective Coat	Sq. Yd.	779		779
Furnishing & Erecting Precast Prestressed Concrete I Beams, 54"	Foot	534		534
Reinforcement Bars, Epoxy Coated	Pound	60890	13340	74230
Furnishing Steel Piles HP 10x42	Foot		866	866
Driving Piles	Foot		866	866
Test Pile Steel HP 10x42	Each		1	1
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		119	119
Asbestos Bearing Pad Removal	Each			8
Pipe Underdrain for Structures 4"	Foot		176	176
Granular Backfill for Structures	Cu. Yd.		259	259

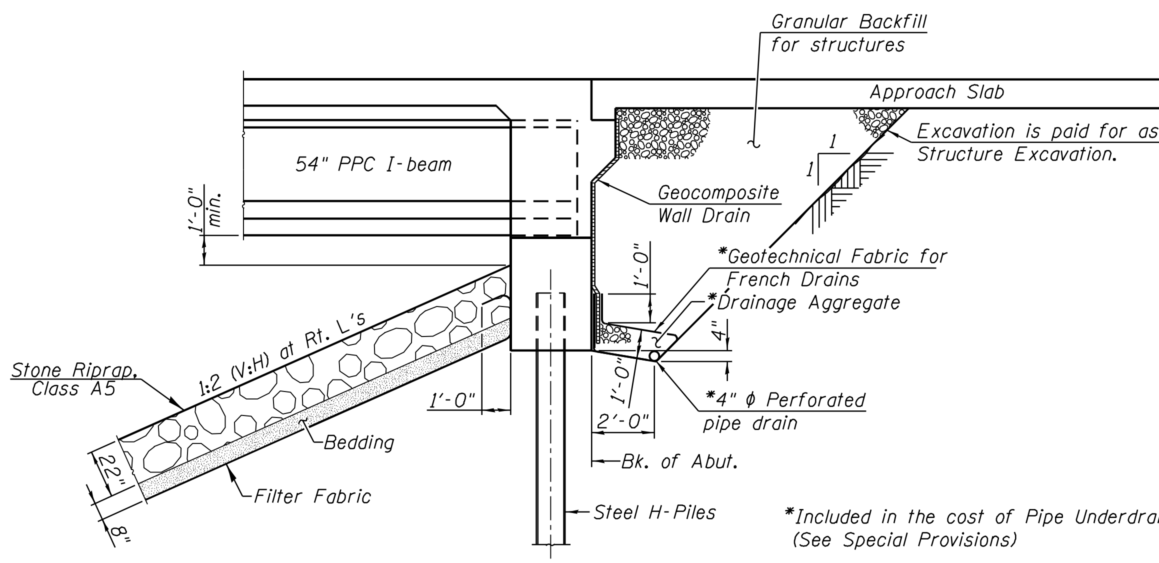
GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Slip forming of the parapets is not allowed.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.



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

SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. at Rt. L's)

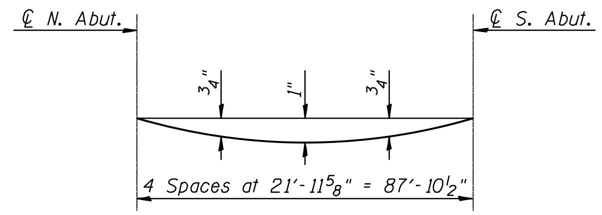
Note:

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).

STATION 209+37.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 332 SEC. (21-Y,21-X)B-1
LOADING HL-93
STR. NO. 017-0032

NAME PLATE

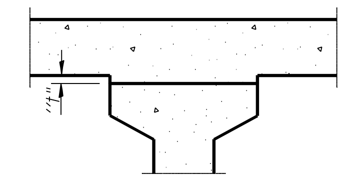
See Std. 515001



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

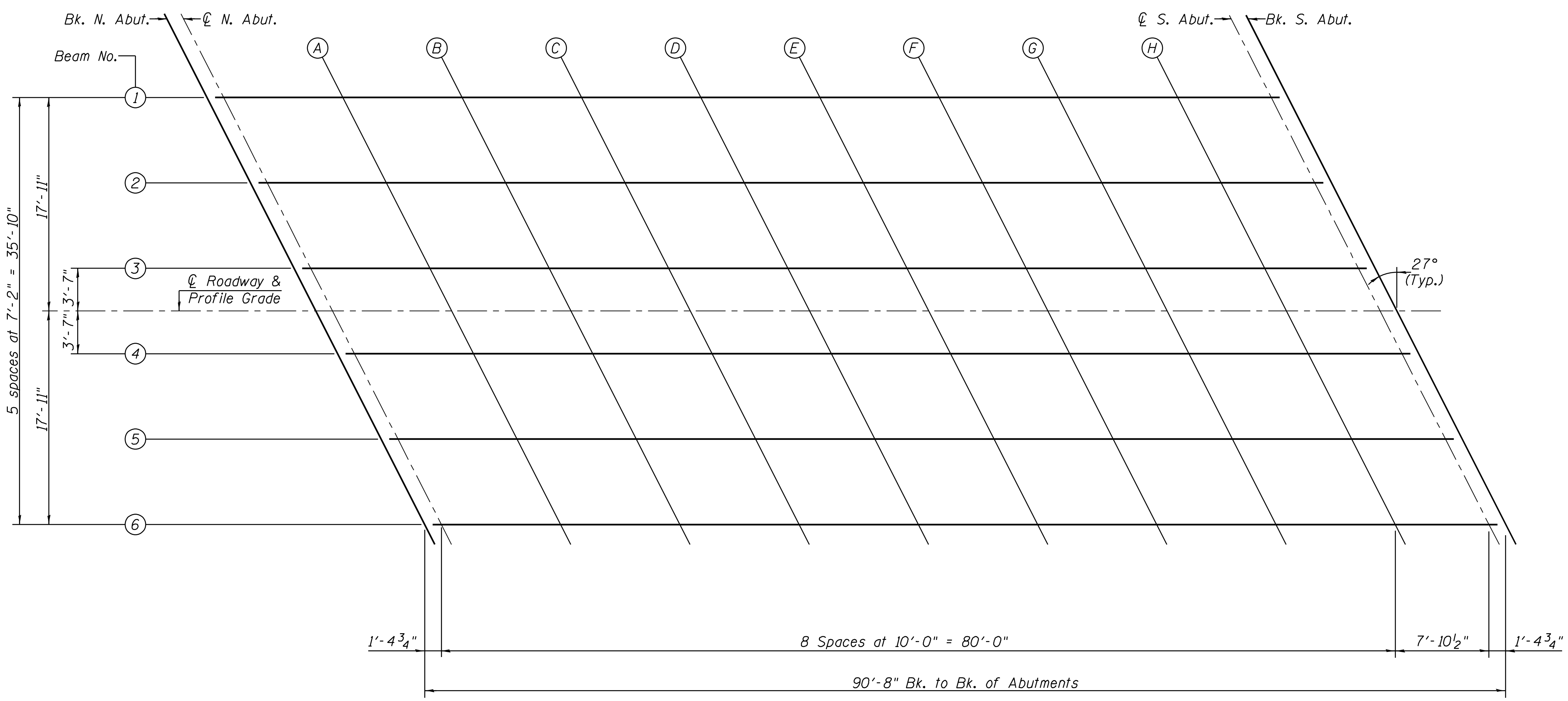
Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 4 of 19.



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 Deflections" shown on Sheet 4 of 19, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

N



PLAN

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS STRUCTURE NO. 017-0032
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRS	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 3 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	50
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	208+82.54	-17.92	474.12	474.12
CL N. Abut.	208+83.94	-17.92	474.12	474.12
A	208+93.94	-17.92	474.15	474.18
B	209+03.94	-17.92	474.18	474.24
C	209+13.94	-17.92	474.19	474.27
D	209+23.94	-17.92	474.21	474.29
E	209+33.94	-17.92	474.21	474.29
F	209+43.94	-17.92	474.21	474.28
G	209+53.94	-17.92	474.20	474.25
H	209+63.94	-17.92	474.18	474.20
CL S. Abut.	209+71.81	-17.92	474.16	474.16
Bk. S. Abut.	209+73.21	-17.92	474.16	474.16

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	208+86.19	-10.75	474.27	474.27
CL N. Abut.	208+87.59	-10.75	474.28	474.28
A	208+97.59	-10.75	474.31	474.33
B	209+07.59	-10.75	474.33	474.39
C	209+17.59	-10.75	474.34	474.41
D	209+27.59	-10.75	474.35	474.43
E	209+37.59	-10.75	474.35	474.43
F	209+47.59	-10.75	474.35	474.42
G	209+57.59	-10.75	474.34	474.39
H	209+67.59	-10.75	474.32	474.34
CL S. Abut.	209+75.46	-10.75	474.30	474.30
Bk. S. Abut.	209+76.86	-10.75	474.29	474.29

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	208+89.84	-3.58	474.40	474.40
CL N. Abut.	208+91.24	-3.58	474.40	474.40
A	209+01.24	-3.58	474.43	474.46
B	209+11.24	-3.58	474.45	474.50
C	209+21.24	-3.58	474.46	474.53
D	209+31.24	-3.58	474.46	474.55
E	209+41.24	-3.58	474.46	474.54
F	209+51.24	-3.58	474.46	474.53
G	209+61.24	-3.58	474.44	474.49
H	209+71.24	-3.58	474.42	474.44
CL S. Abut.	209+79.11	-3.58	474.40	474.40
Bk. S. Abut.	209+80.51	-3.58	474.40	474.40

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	208+91.67	0.00	474.46	474.46
CL N. Abut.	208+93.07	0.00	474.46	474.46
A	209+03.07	0.00	474.49	474.52
B	209+13.07	0.00	474.50	474.56
C	209+23.07	0.00	474.52	474.59
D	209+33.07	0.00	474.52	474.60
E	209+43.07	0.00	474.52	474.60
F	209+53.07	0.00	474.51	474.58
G	209+63.07	0.00	474.49	474.55
H	209+73.07	0.00	474.47	474.49
CL S. Abut.	209+80.94	0.00	474.45	474.45
Bk. S. Abut.	209+82.34	0.00	474.45	474.45

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	208+93.50	3.58	474.41	474.41
CL N. Abut.	208+94.90	3.58	474.41	474.41
A	209+04.90	3.58	474.43	474.46
B	209+14.90	3.58	474.45	474.51
C	209+24.90	3.58	474.46	474.53
D	209+34.90	3.58	474.46	474.55
E	209+44.90	3.58	474.46	474.54
F	209+54.90	3.58	474.45	474.52
G	209+64.90	3.58	474.43	474.49
H	209+74.90	3.58	474.41	474.43
CL S. Abut.	209+82.77	3.58	474.39	474.39
Bk. S. Abut.	209+84.17	3.58	474.38	474.38

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	208+97.15	10.75	474.30	474.30
CL N. Abut.	208+98.55	10.75	474.31	474.31
A	209+08.55	10.75	474.33	474.36
B	209+18.55	10.75	474.34	474.40
C	209+28.55	10.75	474.35	474.42
D	209+38.55	10.75	474.35	474.44
E	209+48.55	10.75	474.35	474.43
F	209+58.55	10.75	474.33	474.40
G	209+68.55	10.75	474.32	474.37
H	209+78.55	10.75	474.29	474.31
CL S. Abut.	209+86.42	10.75	474.26	474.26
Bk. S. Abut.	209+87.82	10.75	474.26	474.26

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	209+00.80	17.92	474.17	474.17
CL N. Abut.	209+02.20	17.92	474.17	474.17
A	209+12.20	17.92	474.19	474.22
B	209+22.20	17.92	474.20	474.26
C	209+32.20	17.92	474.21	474.28
D	209+42.20	17.92	474.21	474.29
E	209+52.20	17.92	474.20	474.28
F	209+62.20	17.92	474.19	474.26
G	209+72.20	17.92	474.16	474.22
H	209+82.20	17.92	474.14	474.16
CL S. Abut.	209+90.07	17.92	474.11	474.11
Bk. S. Abut.	209+91.47	17.92	474.10	474.10

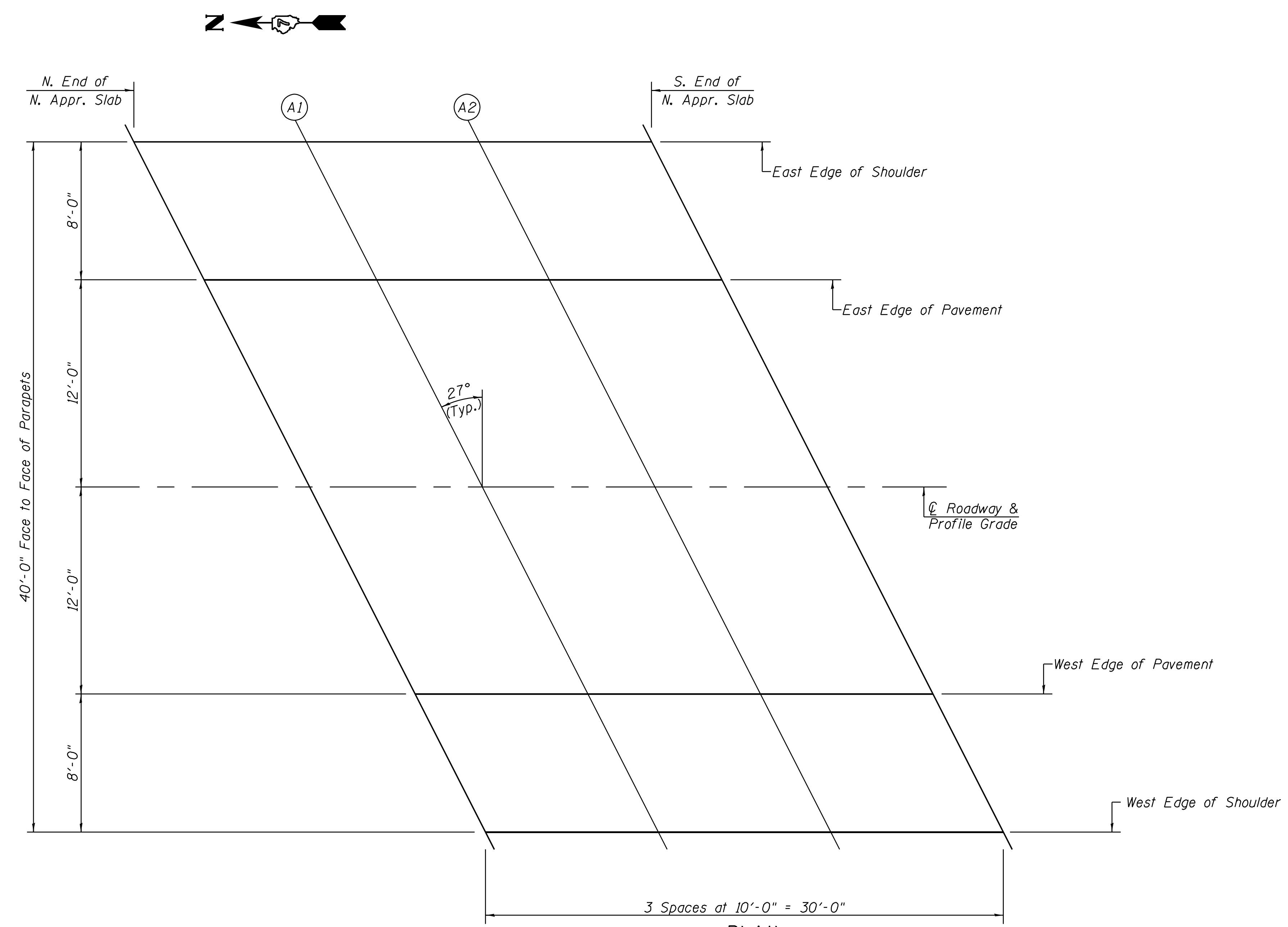
EAST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	208+51.48	-20.00	473.93
A1	208+61.48	-20.00	473.99
A2	208+71.48	-20.00	474.03
S. End of N. Appr. Slab	208+81.48	-20.00	474.07

EAST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	208+55.56	-12.00	474.12
A1	208+65.56	-12.00	474.17
A2	208+75.56	-12.00	474.22
S. End of N. Appr. Slab	208+85.56	-12.00	474.25

℄ RDWY. & PROFILE GRADE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	208+61.67	0.00	474.34
A1	208+71.67	0.00	474.39
A2	208+81.67	0.00	474.43
S. End of N. Appr. Slab	208+91.67	0.00	474.46

WEST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	208+67.78	12.00	474.18
A1	208+77.78	12.00	474.22
A2	208+87.78	12.00	474.26
S. End of N. Appr. Slab	208+97.78	12.00	474.29

WEST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	208+71.86	20.00	474.03
A1	208+81.86	20.00	474.07
A2	208+91.86	20.00	474.10
S. End of N. Appr. Slab	209+01.86	20.00	474.13



PLAN

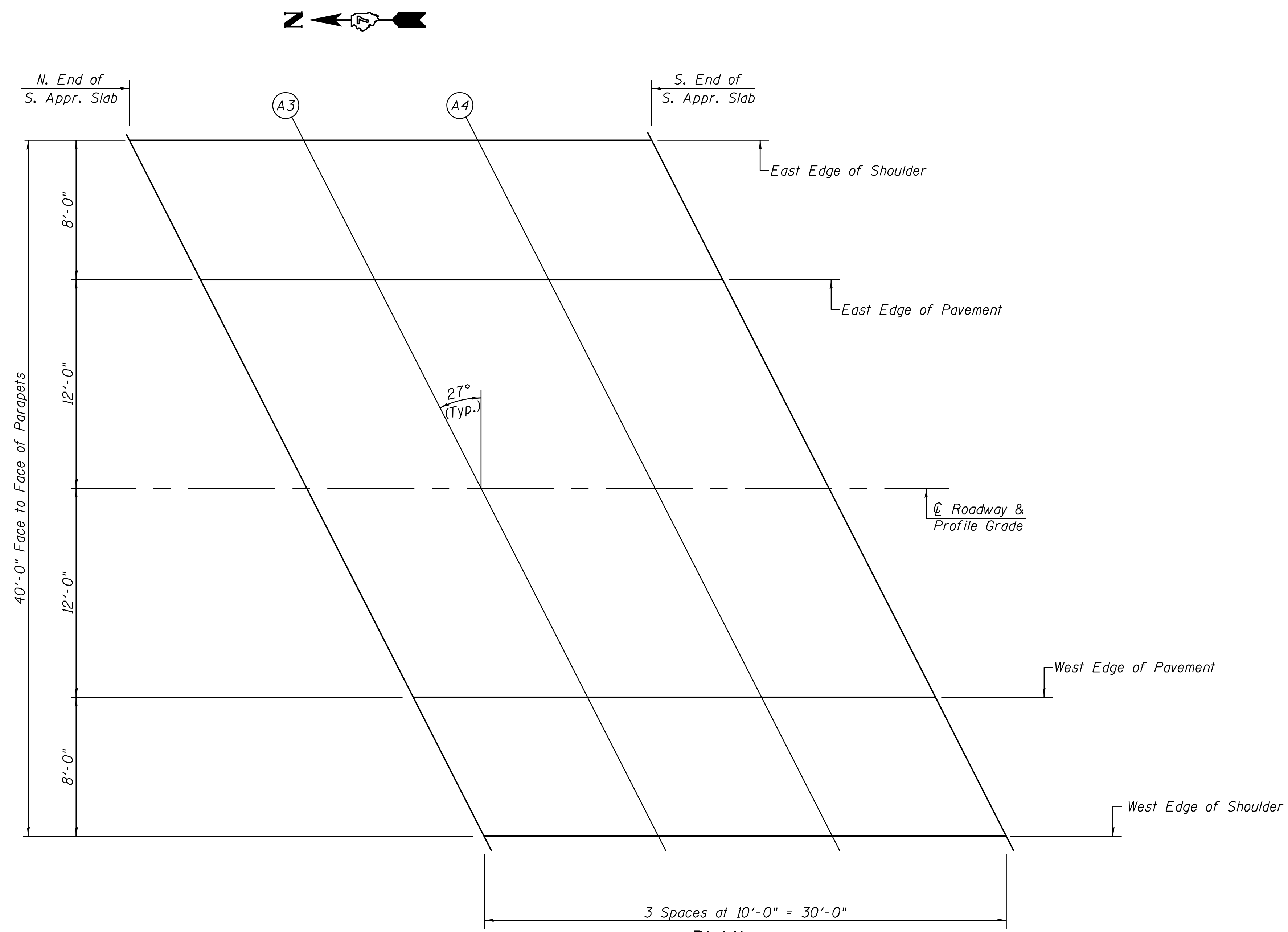
EAST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	209+72.15	-20.00	474.12
A3	209+82.15	-20.00	474.09
A4	209+92.15	-20.00	474.06
S. End of S. Appr. Slab	210+02.15	-20.00	474.02

EAST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	209+76.23	-12.00	474.28
A3	209+86.23	-12.00	474.25
A4	209+96.23	-12.00	474.21
S. End of S. Appr. Slab	210+06.23	-12.00	474.16

℄ RDWY. & PROFILE GRADE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	209+82.34	0.00	474.45
A3	209+92.34	0.00	474.41
A4	210+02.34	0.00	474.37
S. End of S. Appr. Slab	210+12.34	0.00	474.32

WEST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	209+88.45	12.00	474.24
A3	209+98.45	12.00	474.20
A4	210+08.45	12.00	474.15
S. End of S. Appr. Slab	210+18.45	12.00	474.10

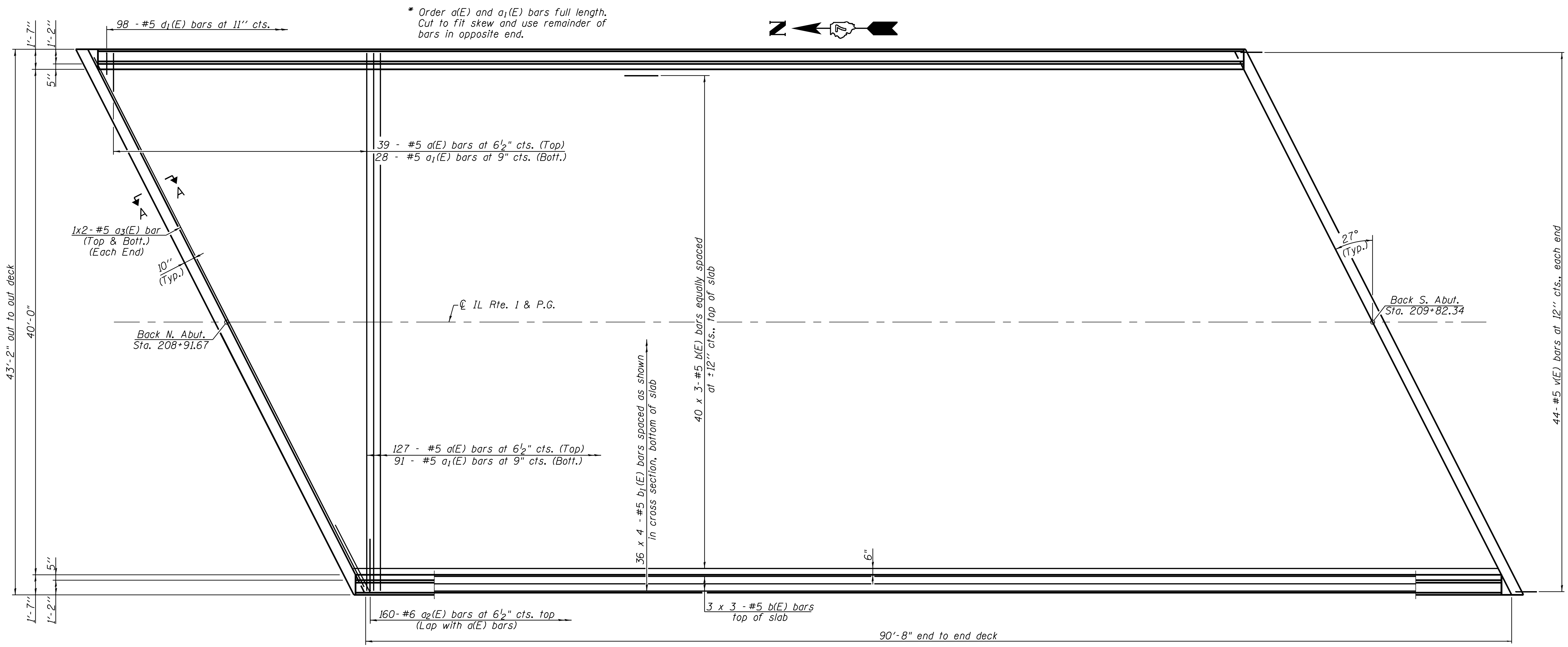
WEST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	209+92.53	20.00	474.06
A3	210+02.53	20.00	474.01
A4	210+12.53	20.00	473.97
S. End of S. Appr. Slab	210+22.53	20.00	473.91



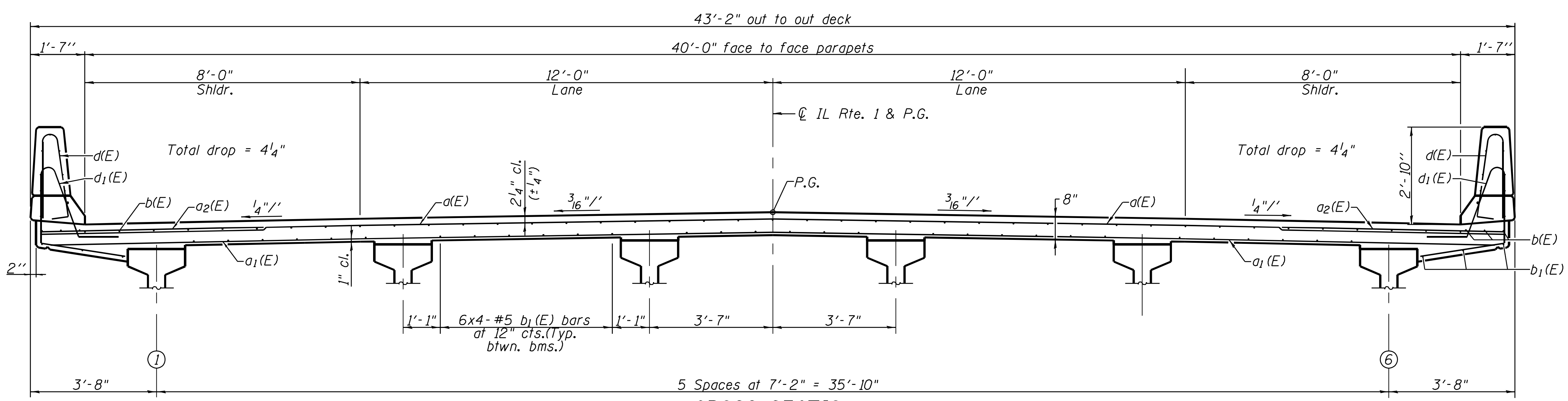
PLAN

Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SOUTH APPROACH SLAB ELEVATIONS STRUCTURE NO. 017-0032	
		CHECKED - GBR	REVISED -			
	PLOT SCALE =	DRAWN - JRS	REVISED -			
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 6 OF 19 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	53
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



PLAN



CROSS SECTION
(Looking South)

MIN. BAR LAP
#5 = 2'-6"

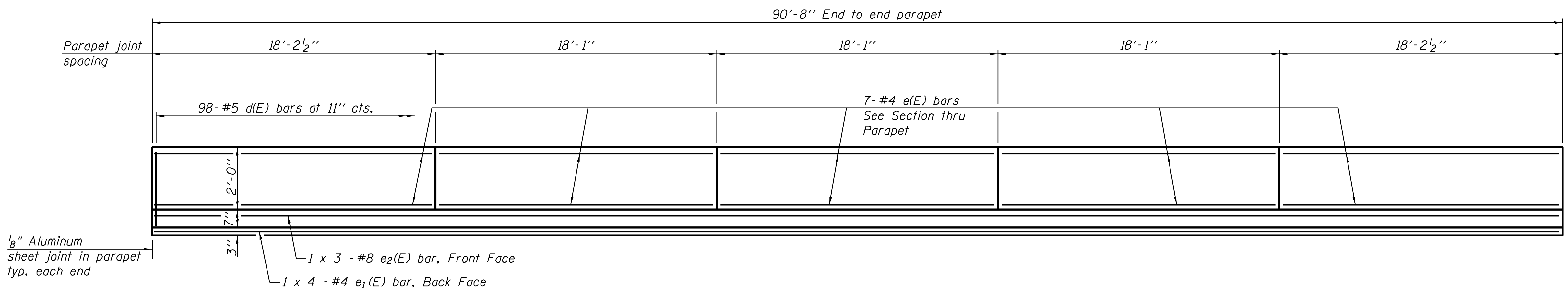
Notes:
See Sheet 8 of 19 for superstructure details and Bill of Material.
Bars indicated thus 36 x 4 - #5 etc. indicates 36 lines of bars with 4 lengths per line.
See Sheet 8 of 19 for parapet reinforcement.
For Section A-A and diaphragm details See Sheet 9 of 19.

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - GBR	REVISED -	
	PLOT SCALE =	DRAWN - JRS	REVISED -	
	PLOT DATE =	CHECKED - GBR	REVISED -	

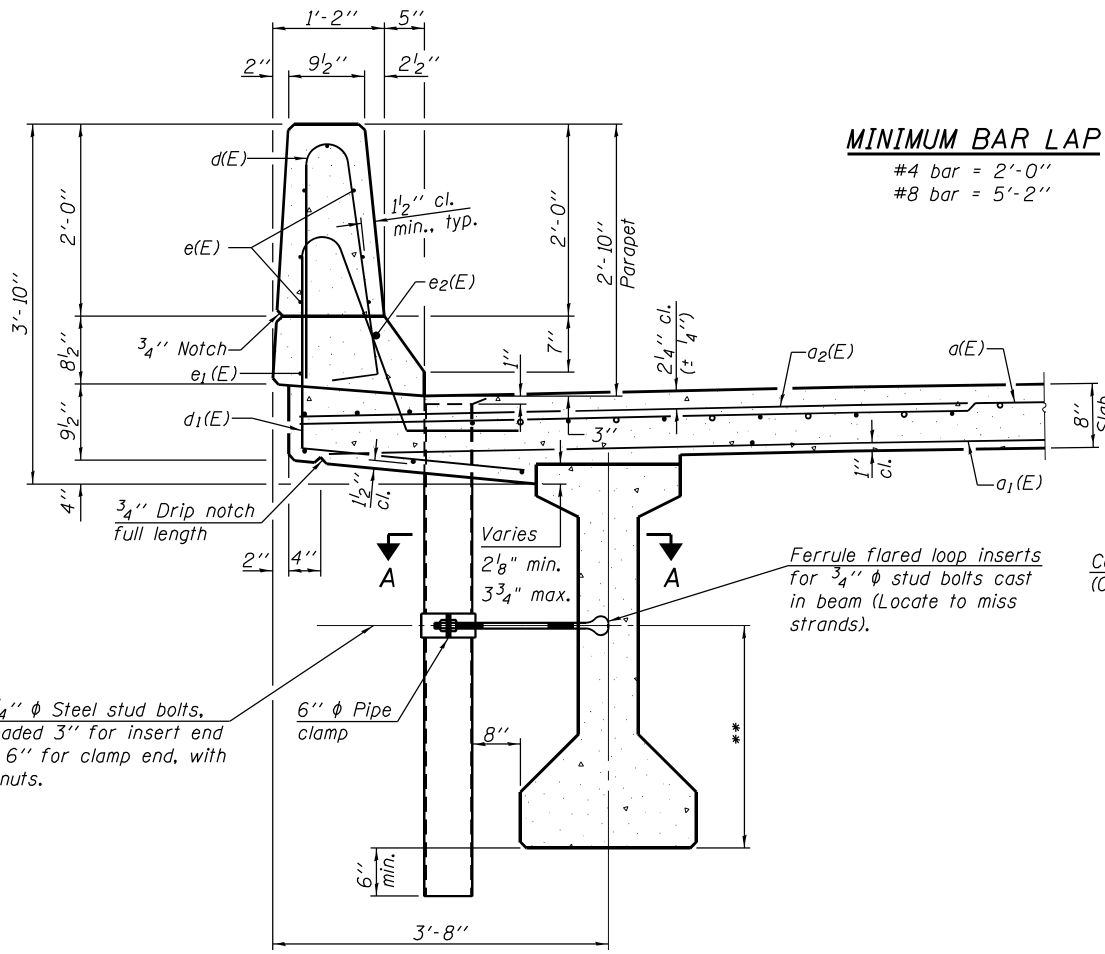
SUPERSTRUCTURE
STRUCTURE NO. 017-0032
SHEET NO. 7 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	54

CONTRACT NO. 74181
ILLINOIS FED. AID PROJECT



INSIDE ELEVATION OF PARAPET

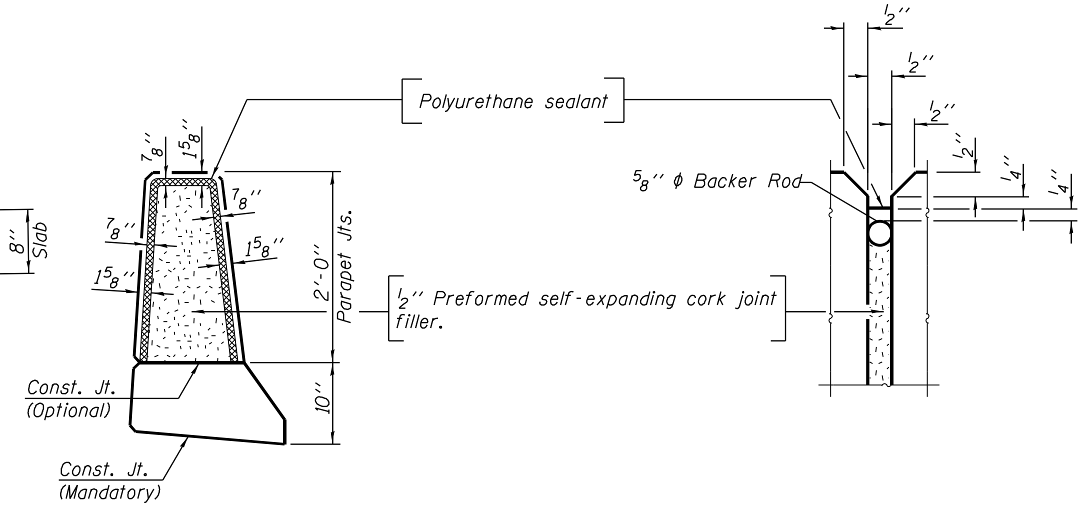


MINIMUM BAR LAP

#4 bar = 2'-0''
#8 bar = 5'-2''

SECTION THRU PARAPET

**For insert locations See sheet 13 of 19.



PARAPET JOINT DETAILS

Notes:

Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

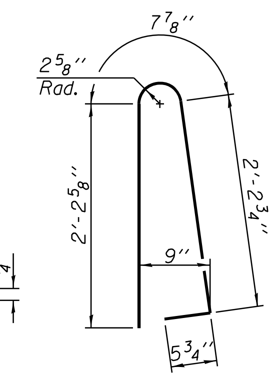
The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.

The top portion of the aluminum floor drains shall be coated to minimize reaction with wet concrete.

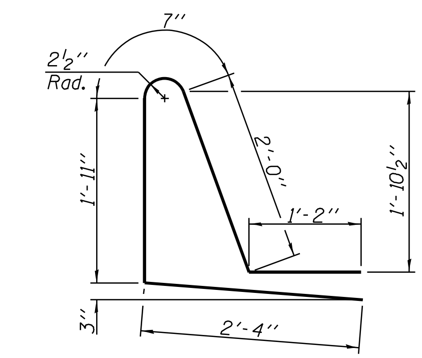
The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.

The ⅛" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

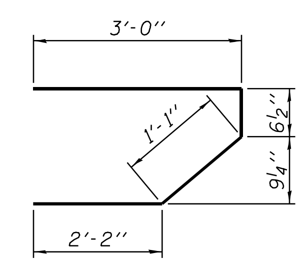
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.



BAR d(E)



BAR d1(E)

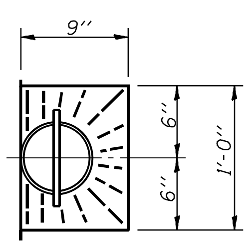


BAR s(E)

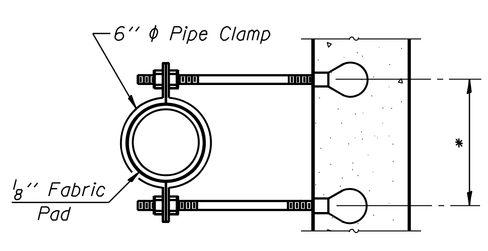
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	166	#5	42'-6"	
a_1(E)	119	#5	41'-4"	
a_2(E)	320	#6	6'-6"	
a_3(E)	8	#5	25'-9"	
b(E)	138	#5	32'-8"	
b_1(E)	144	#5	24'-6"	
d(E)	196	#5	5'-7"	
d_1(E)	196	#5	8'-0"	
e(E)	70	#4	17'-11"	
e_1(E)	8	#4	24'-1"	
e_2(E)	6	#8	33'-7"	
m(E)	20	#6	25'-9"	
m_1(E)	24	#6	11'-6"	
m_2(E)	10	#6	5'-6"	
m_3(E)	4	#6	2'-8"	
s(E)	82	#5	6'-10''	
s_1(E)	72	#5	13'-2"	
v(E)	88	#5	3'-10"	
Reinforcement Bars, Epoxy Coated			Lbs.	31710
Concrete Superstructure			Cu. Yds.	162.5

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

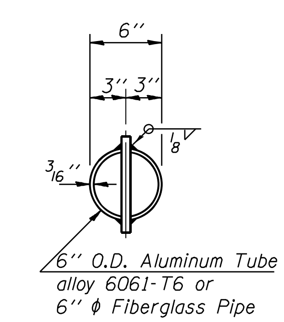


TOP PLAN



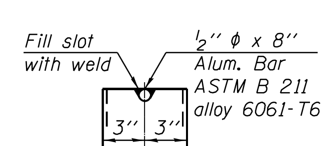
SECTION A-A

*Dimension as required by Pipe Clamp

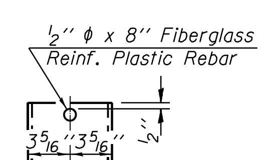


TOP PLAN

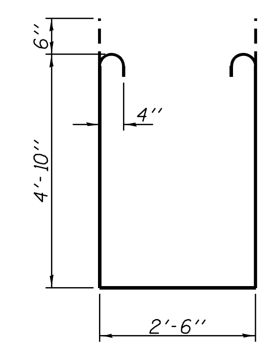
(Showing Aluminum Tube)



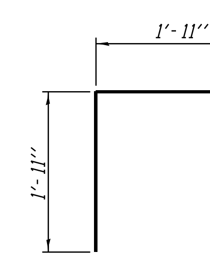
ALUMINUM TUBE



FIBERGLASS PIPE



BAR s1(E)



BAR v(E)

V&K
Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

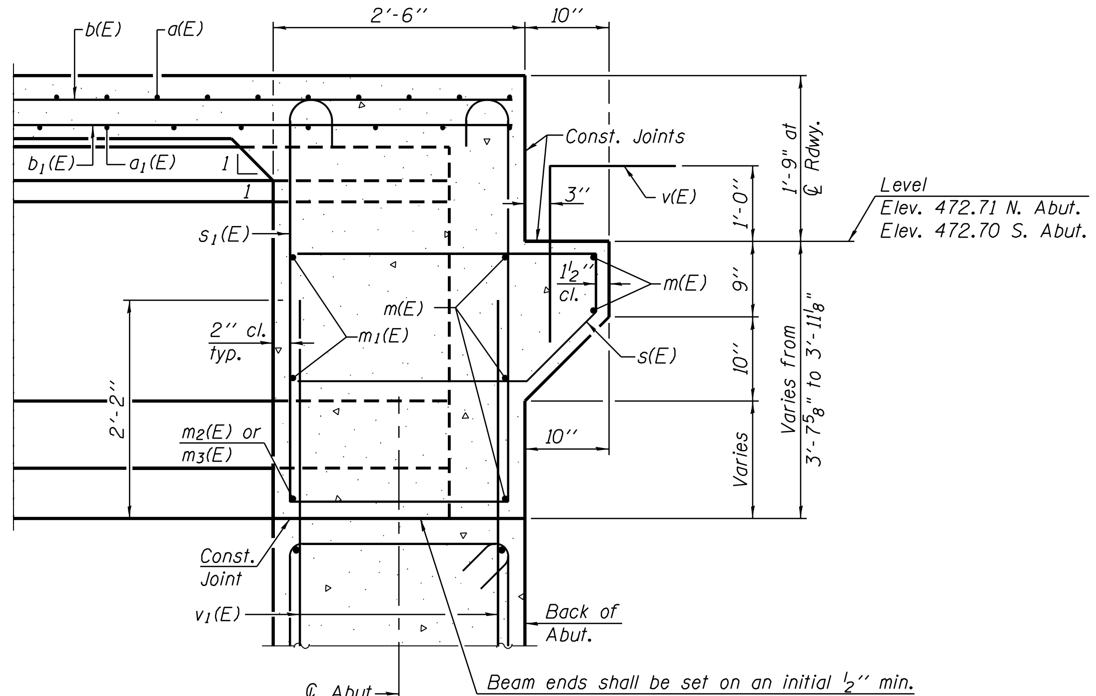
USER NAME =	DESIGNED - JRS	REVISED -
	CHECKED - GBR	REVISED -
PLOT SCALE =	DRAWN - JRS	REVISED -
PLOT DATE =	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 017-0032

SHEET NO. 8 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	55
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



Beam ends shall be set on an initial $\frac{1}{2}$" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

SECTION A-A

Dimensions at right angles to abutment.

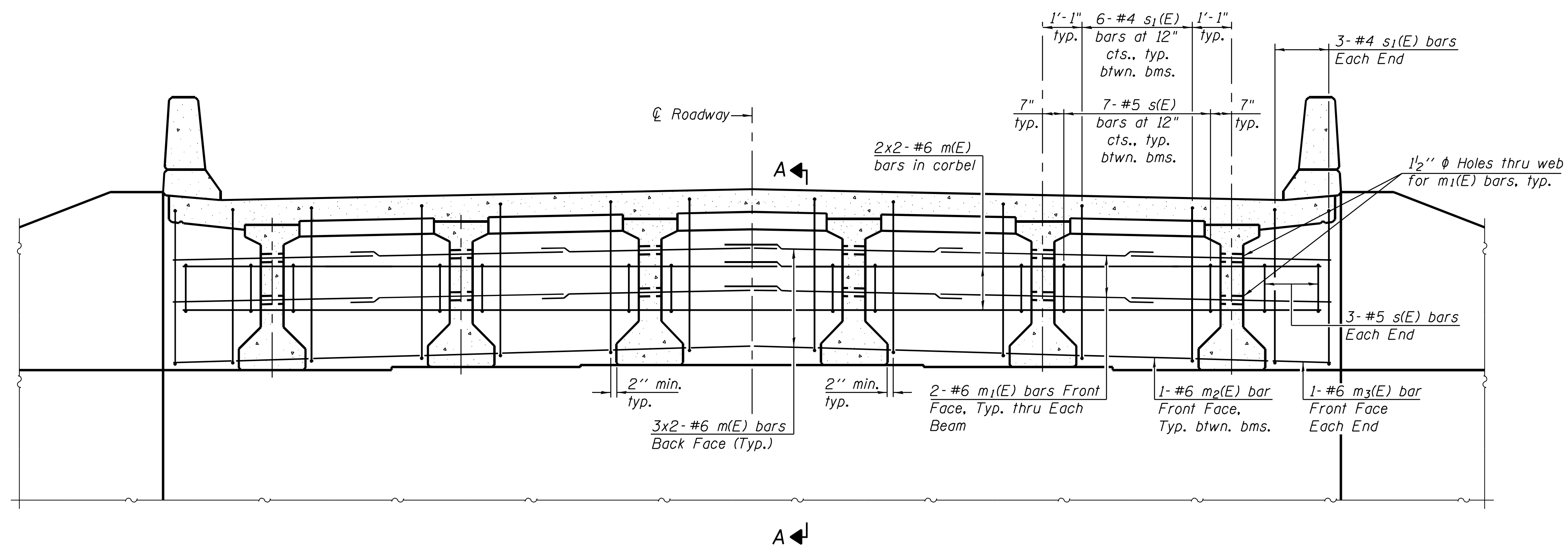
Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 19.

Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 19.

For details of bars s(E), $s_1(E)$ and $s_2(E)$ see sheet 8 of 19.

The s(E), $s_1(E)$ and $s_2(E)$ bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



DIAPHRAGM ELEVATION AT NORTH ABUTMENT

(Looking North) (South Abutment similar by rotation of 180°)

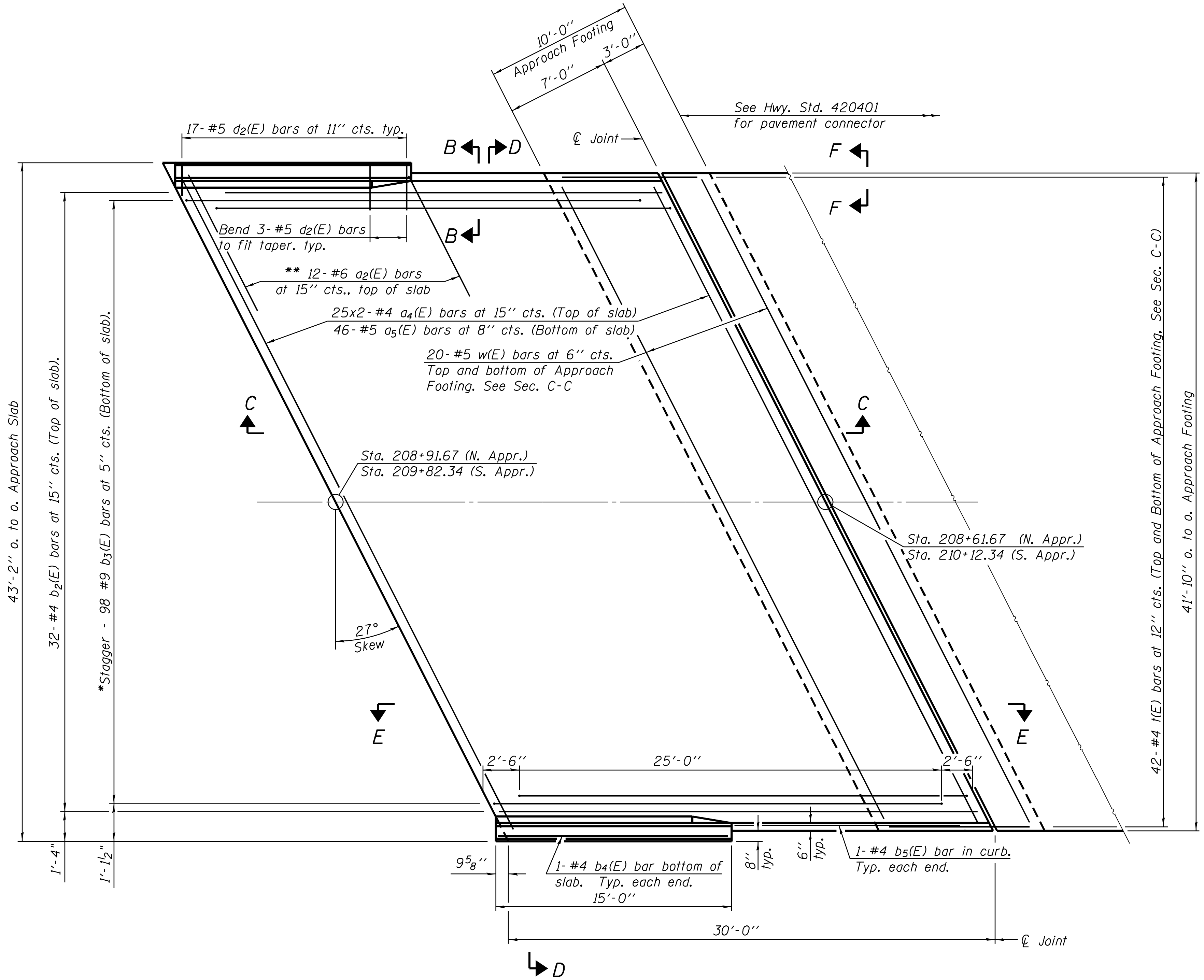
MINIMUM BAR LAP

#6 bar = 3'-4"

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTEGRAL ABUTMENT DIAPHRAGM DETAILS STRUCTURE NO. 017-0032
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRS	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 9 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	56
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

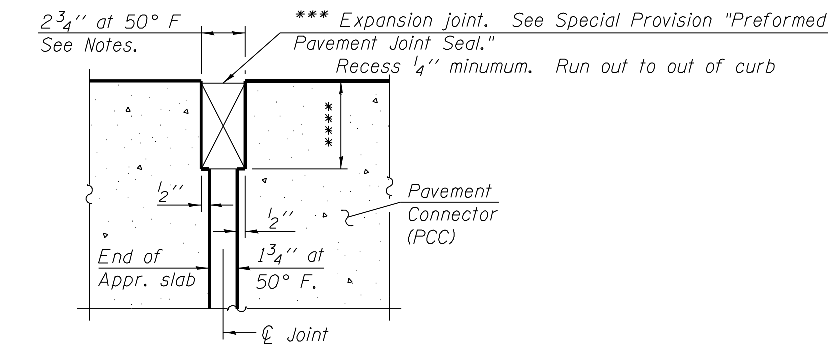
Notes:
See sheet 11 of 19 for Sections C-C & D-D and View E-E.
a_4(E) and a_5(E) bar spacings measured along ℄ Rdwy.
The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be ½" for installation purposes.



PLAN SOUTH APPROACH

(North Approach similar)

* Tilt #9 b_3(E) bars as required to maintain clearance.
** Space between a_4(E) or a_5(E) bars, typ. each parapet.



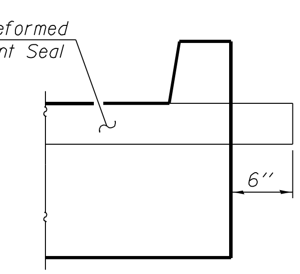
DETAIL A

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

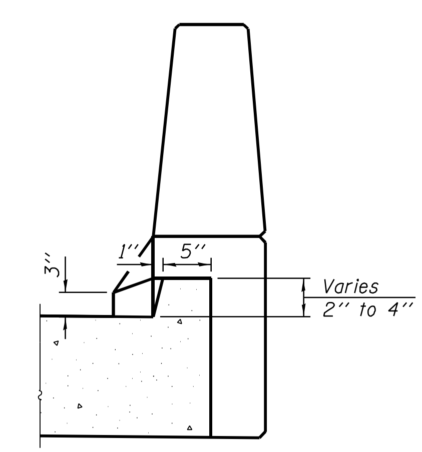
**** Per manufacturer recommendations

MINIMUM BAR LAP

#4 bar = 2'-0''



VIEW F-F

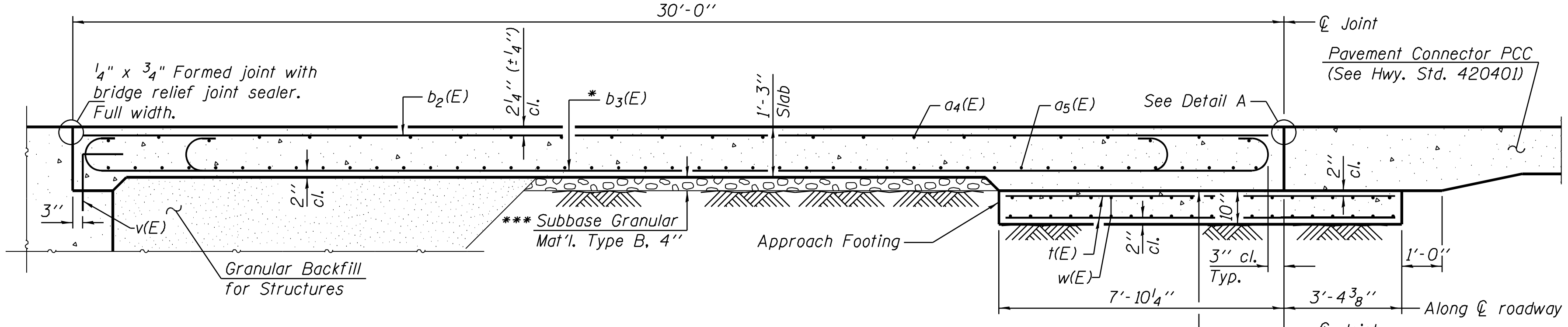


VIEW B-B

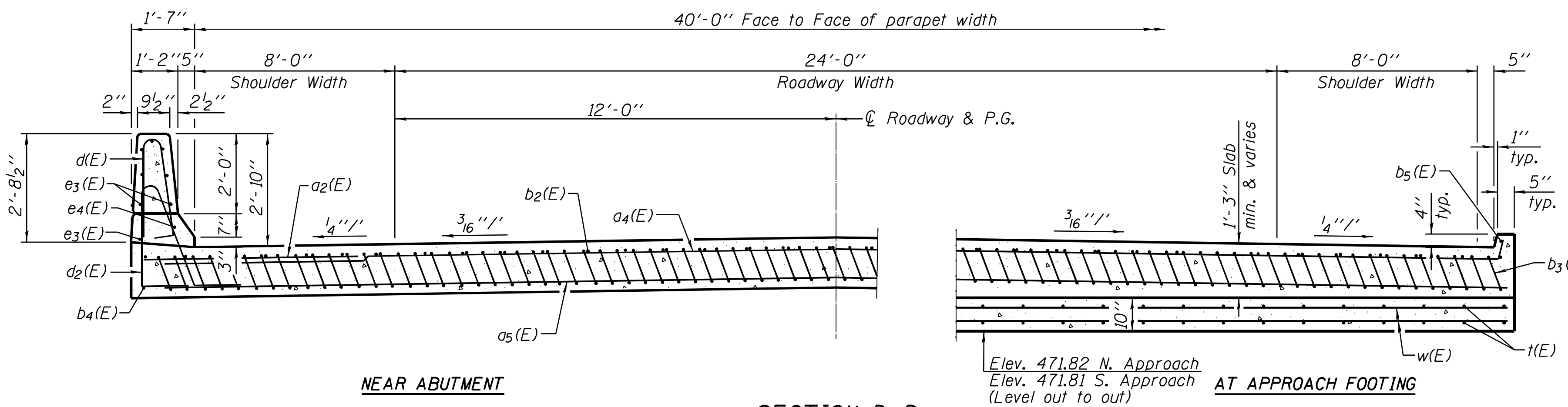
(Sheet 1 of 2)

Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 017-0032
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRS	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 10 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	57
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

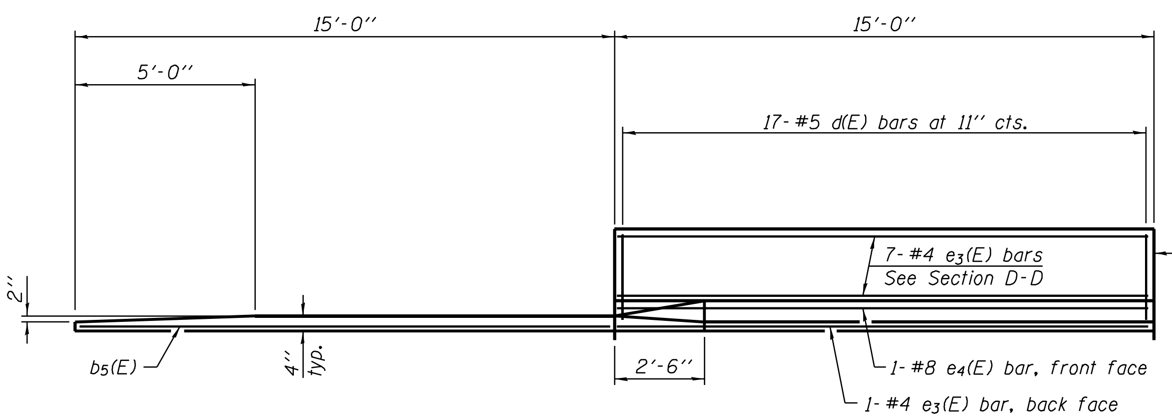


SECTION C-C

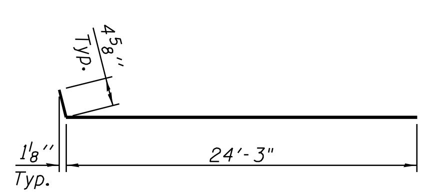


SECTION D-D

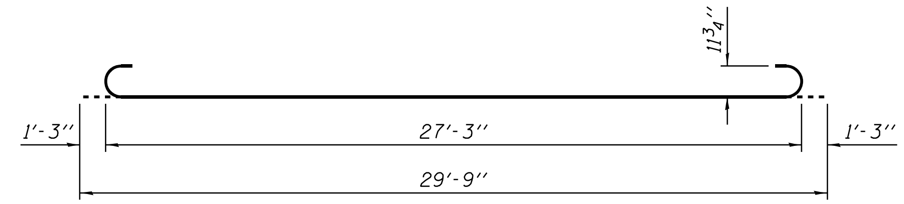
(See Plan for dimensions not shown)



VIEW E-E

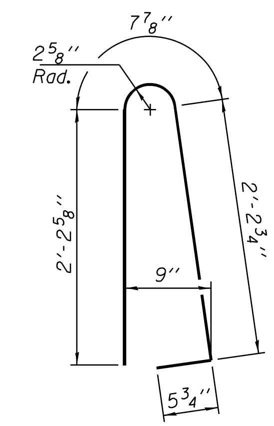


BAR a_4(E)

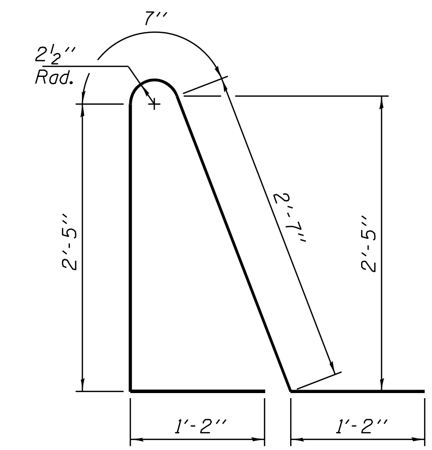


BAR b_3(E)

Notes:
- See sheet 10 of 19 for Detail A and View B-B.
- Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
- Parapet concrete shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For v(E) bar details, see sheet 8 of 19.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.
- For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.
- For additional parapet details, see sheet 8 of 19.



BAR d(E)



BAR d_2(E)

* Tilt #9 b_3(E) bars as required to maintain clearance.

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

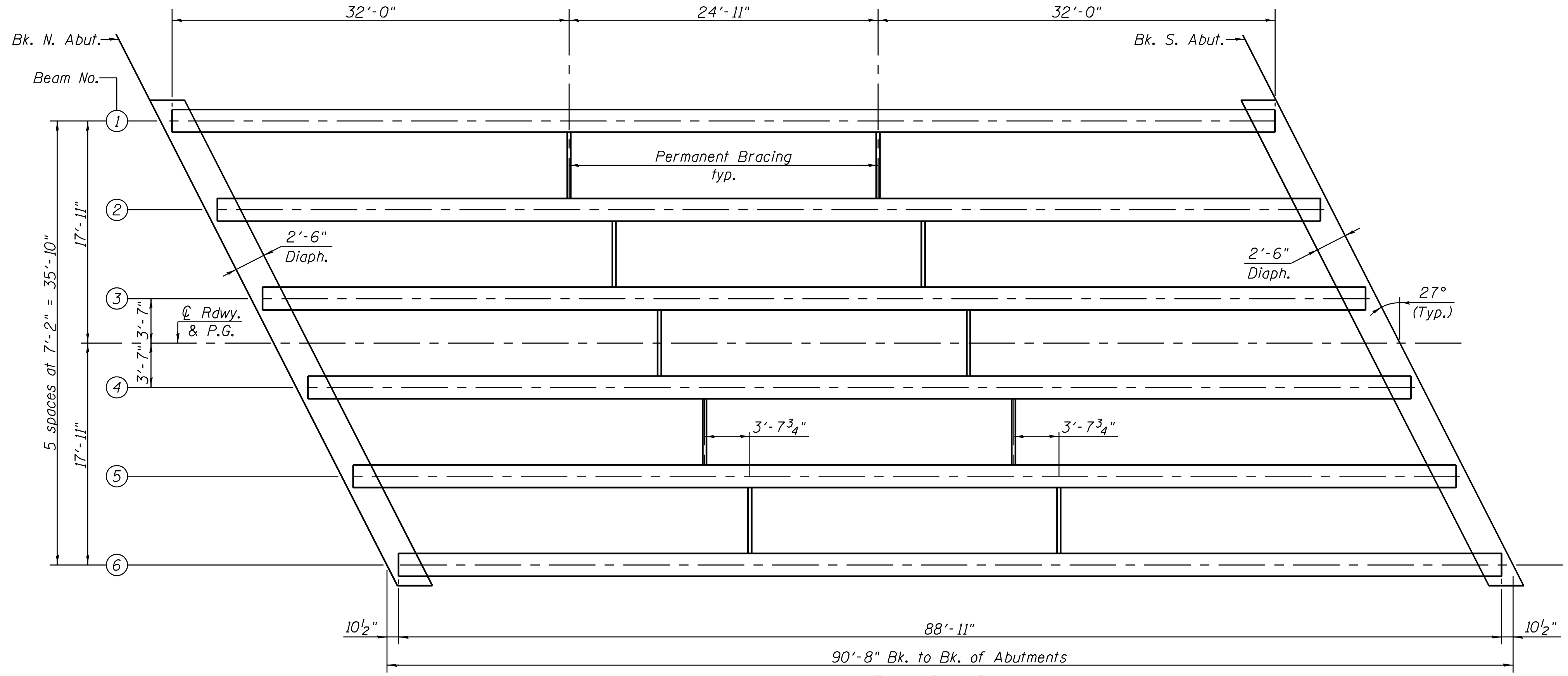
TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_2(E)	48	#6	6'-6"	
a_4(E)	100	#4	24'-8"	
a_5(E)	92	#5	46'-6"	
b_2(E)	64	#4	29'-8''	
b_3(E)	196	#9	29'-9''	
b_4(E)	4	#4	14'-8''	
b_5(E)	4	#4	14'-6''	
d(E)	68	#5	5'-7''	
d_2(E)	68	#5	7'-11''	
e_3(E)	32	#4	14'-8''	
e_4(E)	4	#8	14'-8''	
t(E)	168	#4	10'-10''	
w(E)	80	#5	46'-6"	
Concrete Superstructure			Cu. Yd.	3.3
Concrete Superstructure (Approach Slab)			Cu. Yd.	127.7
Concrete Structures			Cu. Yd.	29.0
Reinforcement Bars, Epoxy Coated			Pound	34280

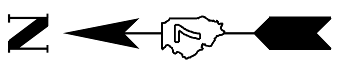
(Sheet 2 of 2)

Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 017-0032
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRS	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 11 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	58
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



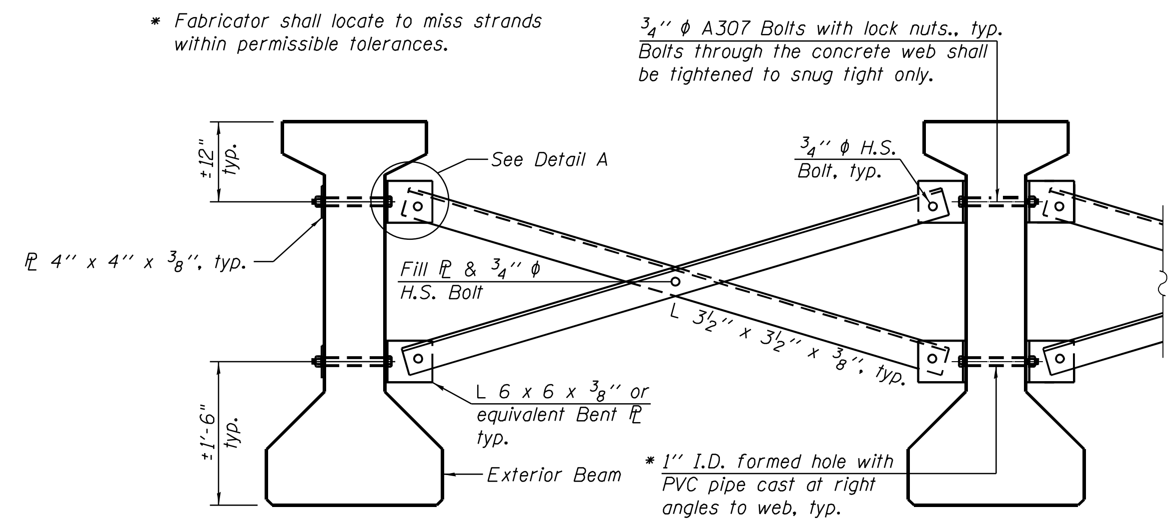
FRAMING PLAN



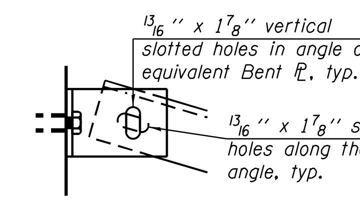
Interior Beam Moment Table		
		0.5 Sp. #1
I	(in⁴)	213715
I'	(in⁴)	521089
Sb	(in³)	8559
S'b	(in³)	12911
St	(in³)	7362
S't	(in³)	38203
DC1	(k/')	1.372
MDC1	('k)	1333
DC2	(k/')	0.15
MDC2	('k)	146
DW	(k/')	0.359
MDW	('k)	349
MLL+IM	('k)	1501

Interior Beam Reaction Table		
		Abut.
RDC1	(k)	60.5
RDC2	(k)	6.6
RDW	(k)	15.8
RLL+IM	(k)	94.1
R TOTAL	(k)	177

I: Non-composite moment of inertia of beam section (in.⁴).
I': Composite moment of inertia of beam section (in.⁴).
Sb: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
Sb': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
St: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
St': Composite section modulus for the top fiber of the prestressed beam (in.³).
DC1: Un-factored non-composite dead load (kips/ft.).
MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).
M℄ + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).



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 15/16"ϕ unless otherwise noted.
5/16" x 3" x 3" plate washers are required over all slotted holes.
All bolts shall be galvanized according 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 I-Beams.



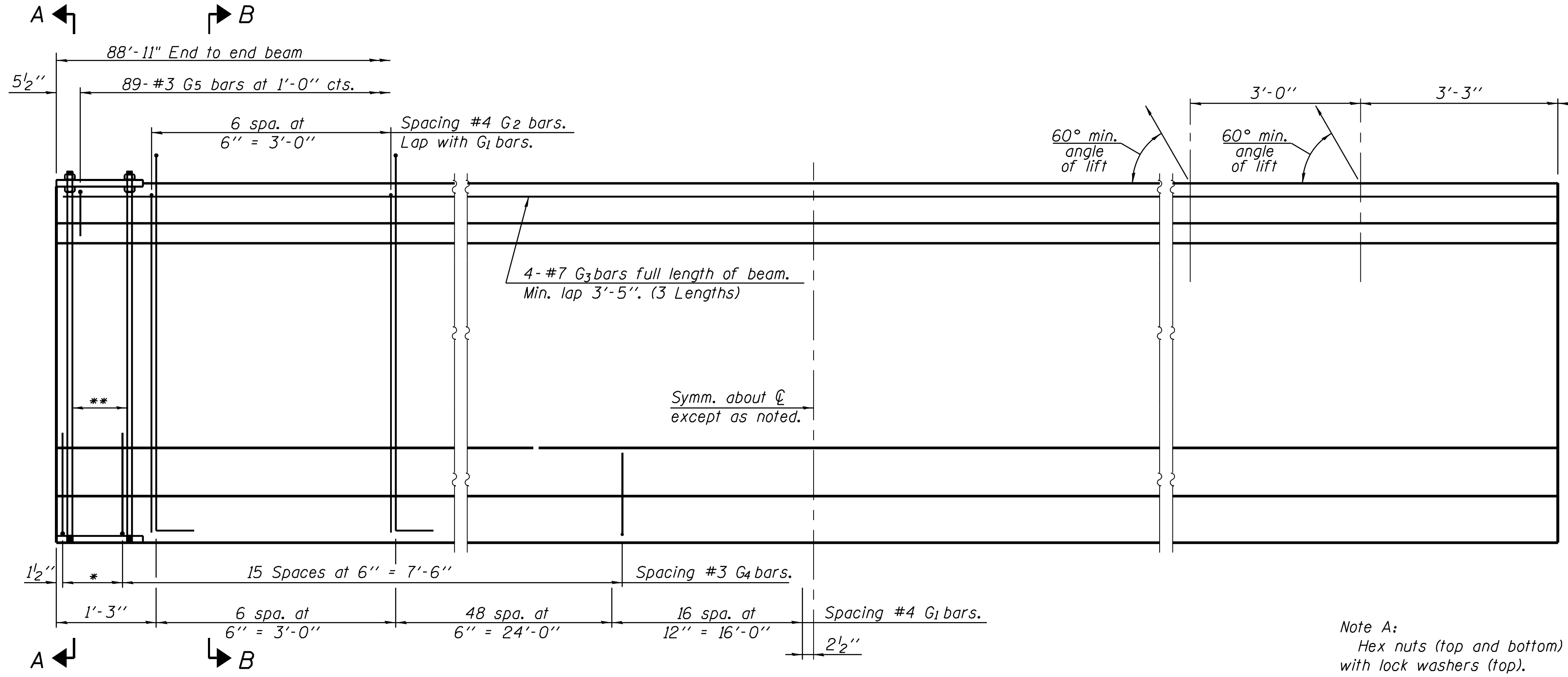
DETAIL A

PERMANENT BRACING DETAILS FOR 54" PPC I-BEAMS

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - GBR	REVISED -	
	PLOT SCALE =	DRAWN - JRS	REVISED -	
	PLOT DATE =	CHECKED - GBR	REVISED -	

FRAMING PLAN
STRUCTURE NO. 017-0032
SHEET NO. 12 OF 19 SHEETS

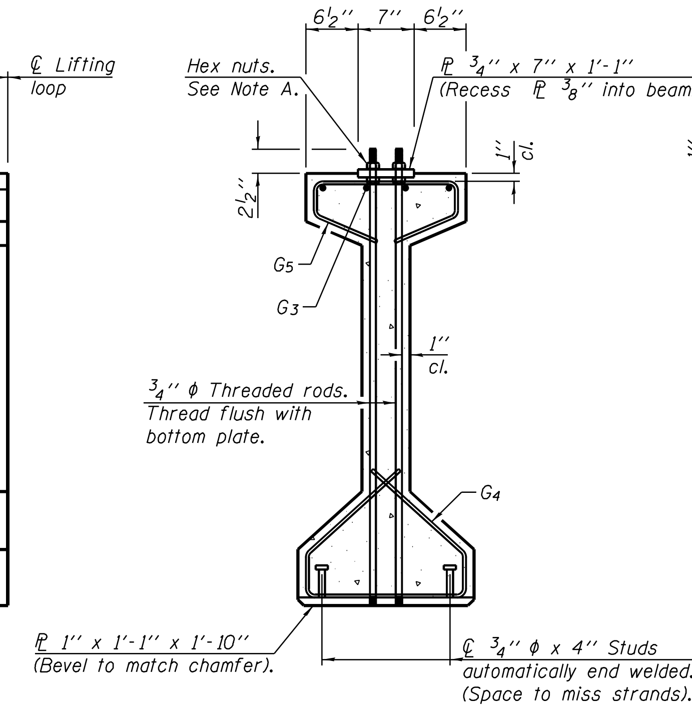
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	59
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



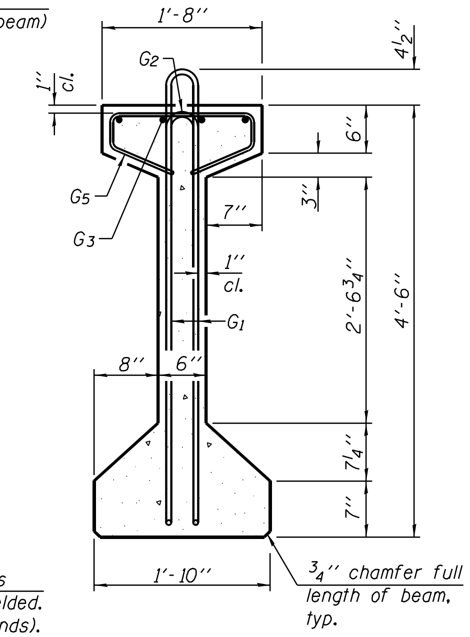
* 3 spaces at 3" = 9".
** 4-¾" ϕ threaded dowel rods at 3" cts., Each Face.

ELEVATION OF BEAM
(Showing reinforcement & dimensions)

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



SECTION A-A



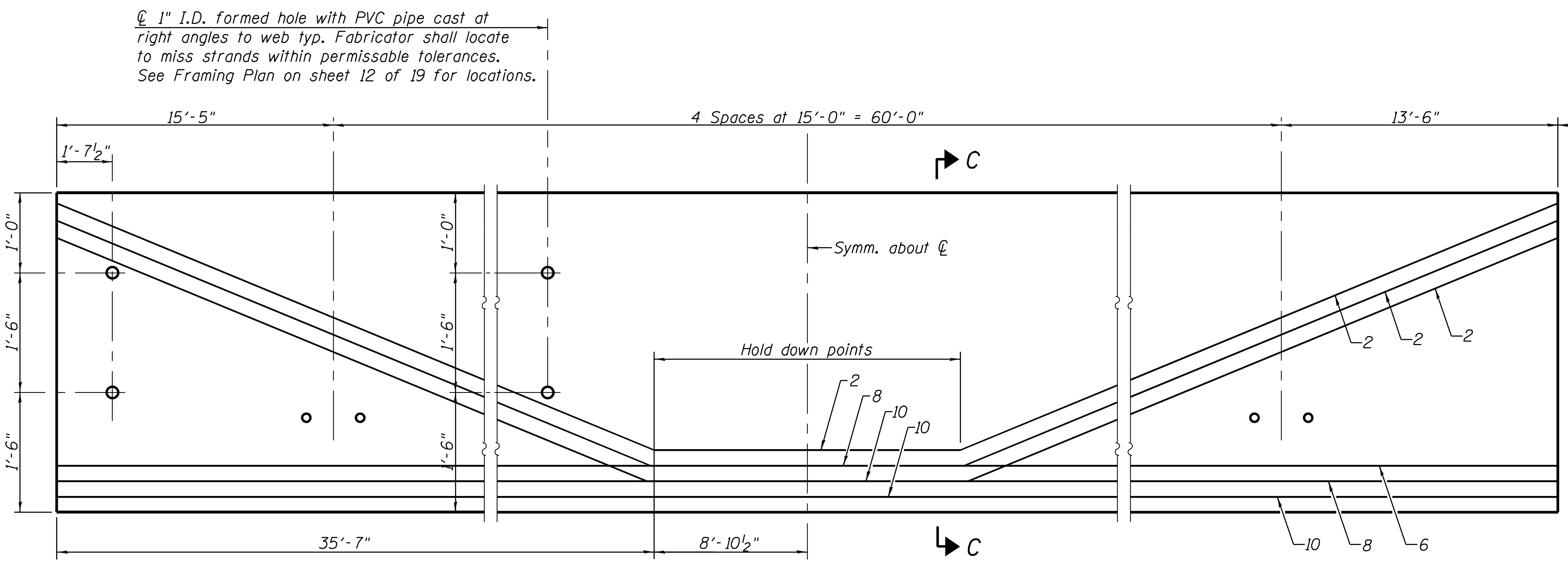
SECTION B-B

***BAR LIST
ONE BEAM ONLY

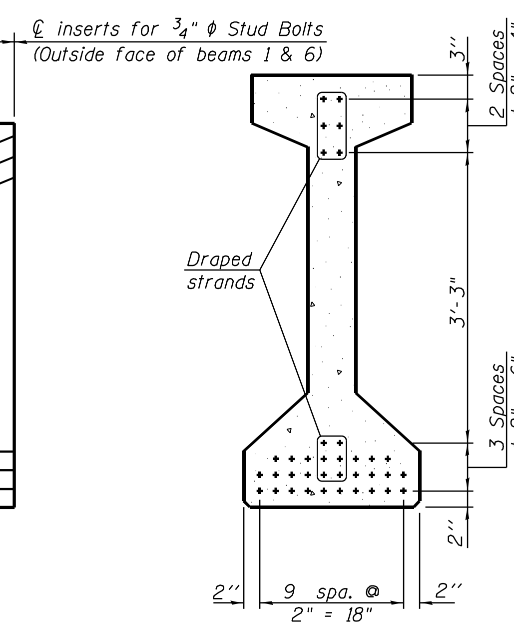
Bar	No.	Size	Length	Shape
G_1	142	#4	10'-5"	∩L
G_2	14	#4	8'-8"	∩
G_3	12	#7	33'-0"	—
G_4	38	#3	4'-11"	
G_5	89	#3	3'-5"	

***For information only

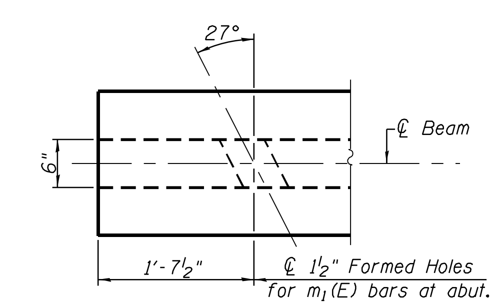
Notes:
See sheet 14 of 19 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.



ELEVATION OF BEAM
(Showing prestressing steel)



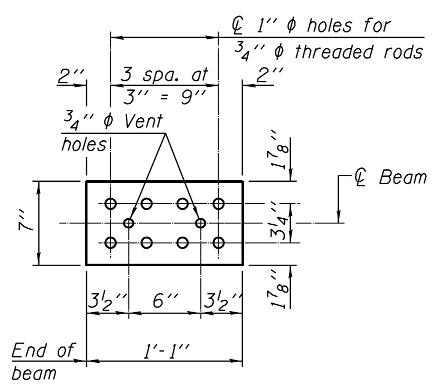
SECTION C-C



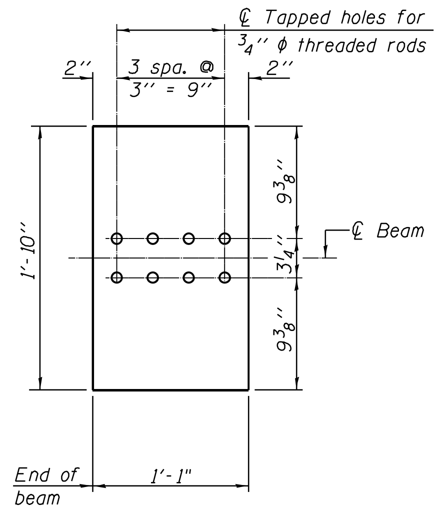
END OF BEAM PLAN

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	54" PPC I-BEAM STRUCTURE NO. 017-0032
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRS	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 13 OF 21 SHEETS

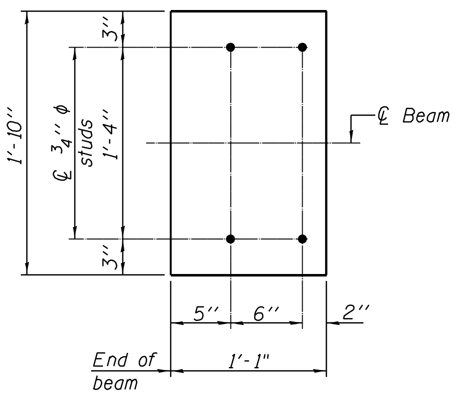
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	60
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



TOP PLATE



BOTTOM PLATE
(Showing threaded rods)



BOTTOM PLATE
(Showing studs)

See bearing details for pintle
hole locations when required.

NOTES

Inserts for ¾″ ϕ 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 shall be ½″ and the nominal cross-sectional area shall be 0.153 sq. in.

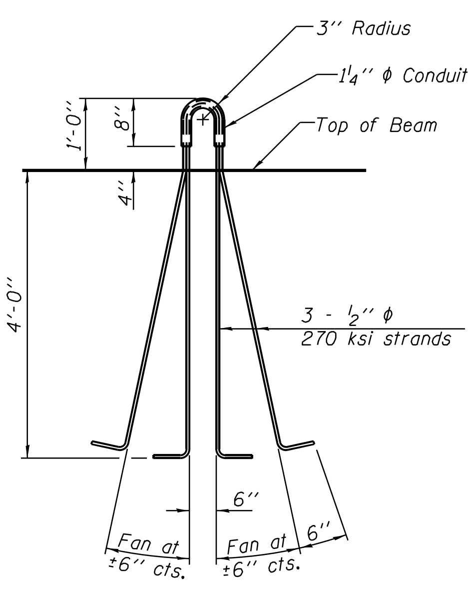
The beams shall have a final concrete compressive strength, f′c, of 6,000 psi and a release compressive strength, f′ci, of 5,000 psi.

A minimum 2½″ ϕ lifting pin shall be used to engage the lifting loops during handling.

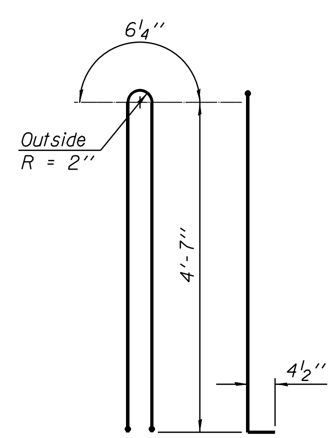
The top and bottom plates shall be AASHTO M270 Grade 50.

The top and bottom plates shall be galvanized according to AASHTO M111. The threaded rods, nuts, and washers shall be galvanized according to AASHTO M232.

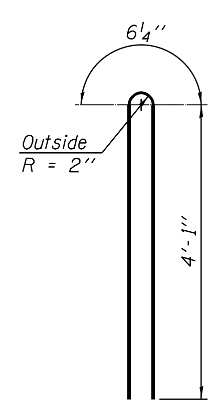
Threaded rods shall be ASTM F 1554 Grade 55.



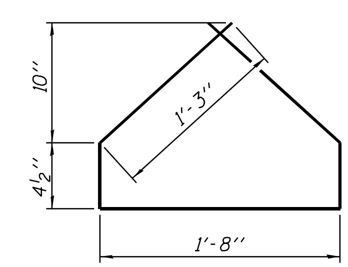
LIFTING LOOP DETAIL



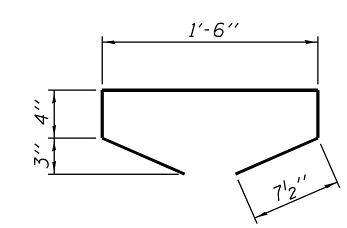
BAR G1



BAR G2



BAR G4



BAR G5

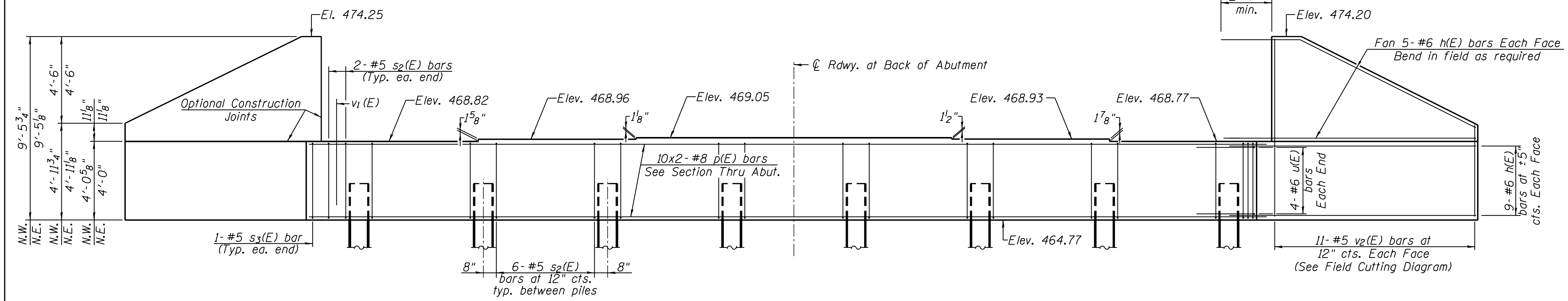
BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54″	Ft.	534

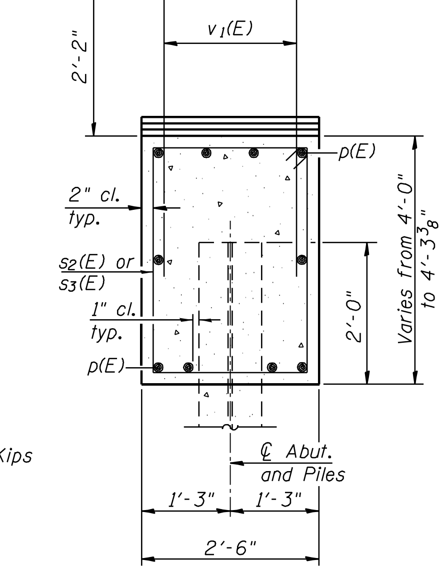
V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	54″ PPC I-BEAM DETAILS STRUCTURE NO. 017-0032
		CHECKED - GBR	REVISED -		
	PLOT SCALE =	DRAWN - JRS	REVISED -		
	PLOT DATE =	CHECKED - GBR	REVISED -		SHEET NO. 14 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	61
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

Notes:
Pour steps monolithically with cap.

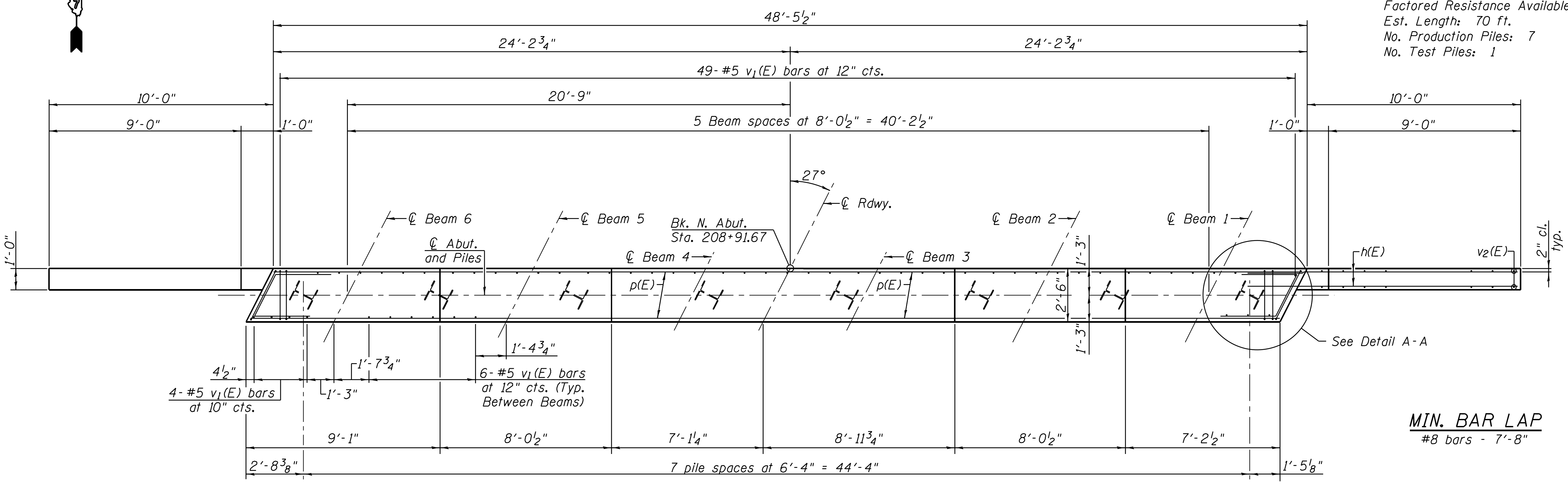


ELEVATION
(Looking North)



SEC. THRU ABUT.

PILE DATA
Type: HP10x42
Nominal Required Bearing: 323 Kips
Factored Resistance Available: 178 Kips
Est. Length: 70 ft.
No. Production Piles: 7
No. Test Piles: 1



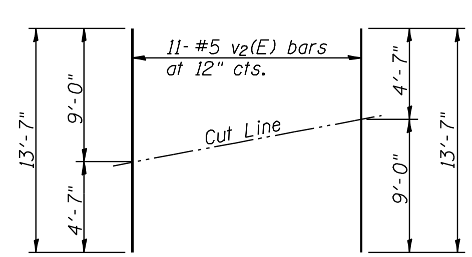
PLAN

BILL OF MATERIAL

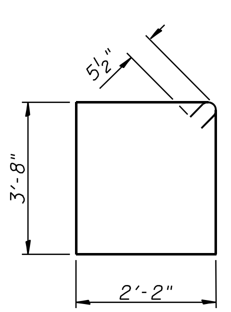
Bar	No.	Size	Length	Shape
h(E)	56	#6	14'-2"	
p(E)	20	#8	27'-11"	
s_2(E)	46	#5	12'-7"	
s_3(E)	2	#5	13'-3"	
u(E)	8	#6	8'-4"	
v_1(E)	86	#5	4'-4"	
v_2(E)	22	#5	13'-7"	
Structure Excavation			Cu. Yd.	32.4
Concrete Structures			Cu. Yd.	24.2
Reinforcement Bars, Epoxy Coated			Pound	4120
Furnishing Steel Piles HP10x42			Foot	490
Driving Piles			Foot	490
Test Pile Steel HP10x42			Each	1

For details of Piles see sheet 17 of 19.

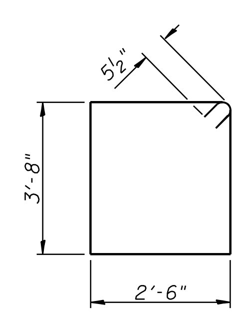
MIN. BAR LAP
#8 bars - 7'-8"



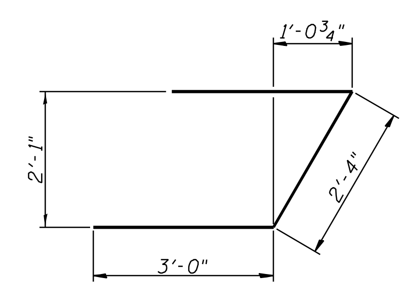
FIELD CUTTING DIAGRAM
Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.



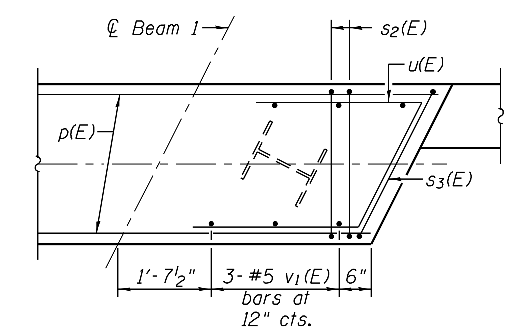
BAR s_2(E)



BAR s_3(E)



BAR u(E)



DETAIL A-A

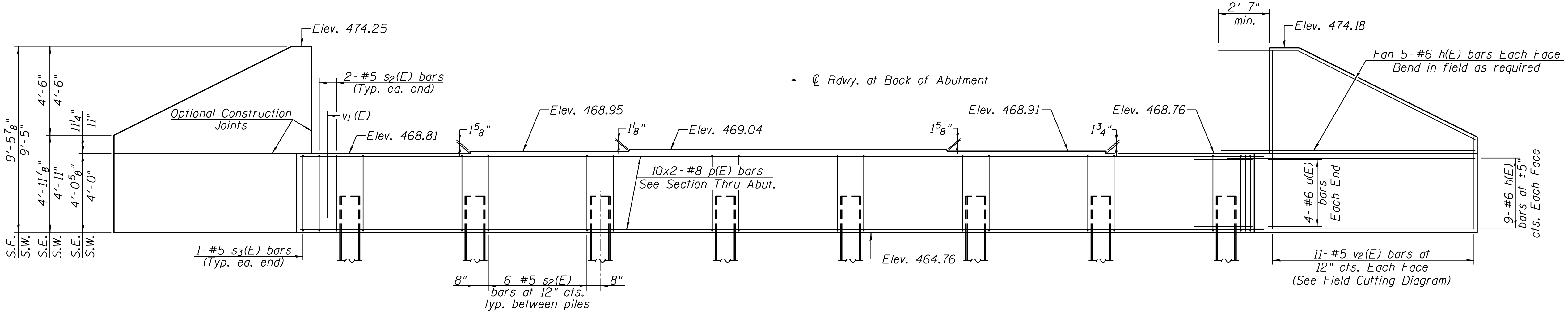
V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JRS	REVISED -
	PLOT DATE =	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

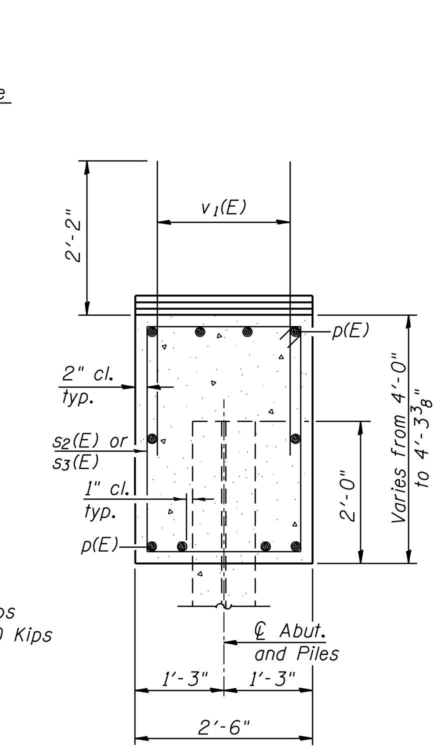
NORTH ABUTMENT
STRUCTURE NO. 017-0032
SHEET NO. 15 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	62
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

Notes:
Pour steps monolithically with cap.



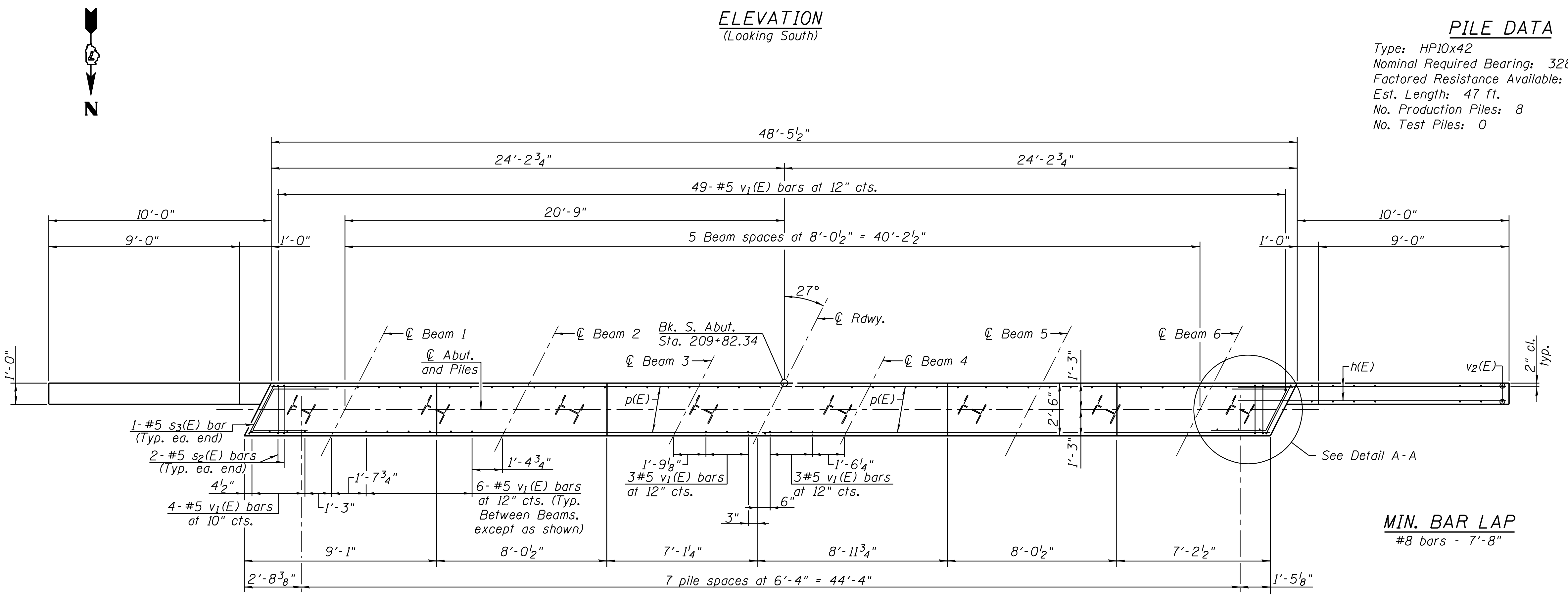
ELEVATION
(Looking South)



SEC. THRU ABUT.

PILE DATA

Type: HP10x42
Nominal Required Bearing: 328 Kips
Factored Resistance Available: 180 Kips
Est. Length: 47 ft.
No. Production Piles: 8
No. Test Piles: 0



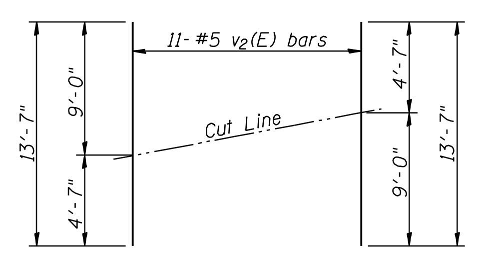
PLAN

MIN. BAR LAP
#8 bars - 7'-8"

BILL OF MATERIAL

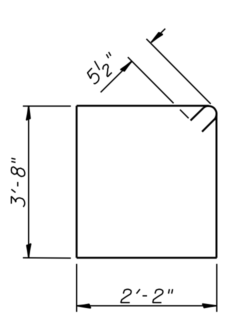
Bar	No.	Size	Length	Shape
h(E)	56	#6	14'-2"	———
p(E)	20	#8	27'-11"	———
s_2(E)	46	#5	12'-7"	☐
s_3(E)	2	#5	13'-3"	☐
u(E)	8	#6	8'-4"	
v_1(E)	86	#5	4'-4"	———
v_2(E)	22	#5	13'-7"	———
Structure Excavation			Cu. Yd.	32.4
Concrete Structures			Cu. Yd.	24.1
Reinforcement Bars, Epoxy Coated			Pound	4120
Furnishing Steel Piles HP10x42			Foot	376
Driving Piles			Foot	376

For details of Piles see sheet 17 of 19.

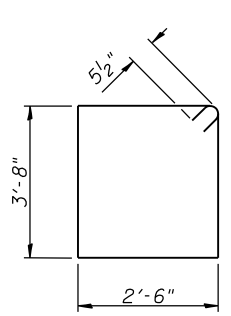


FIELD CUTTING DIAGRAM

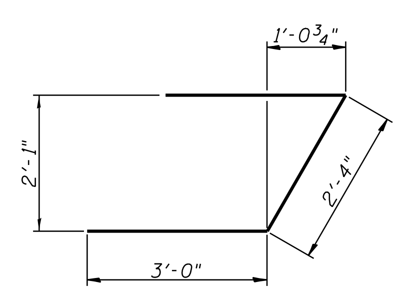
Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.



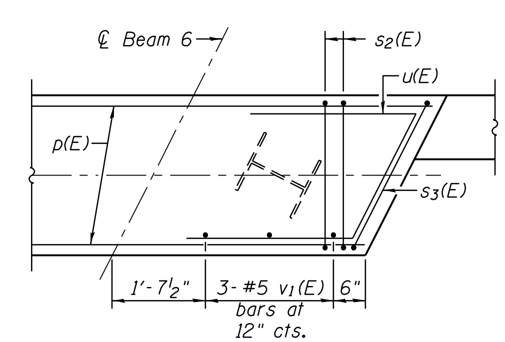
BAR s_2(E)



BAR s_3(E)



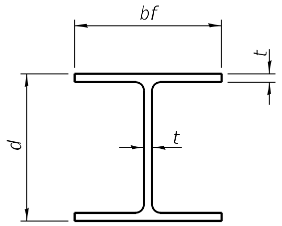
BAR u(E)



DETAIL A-A

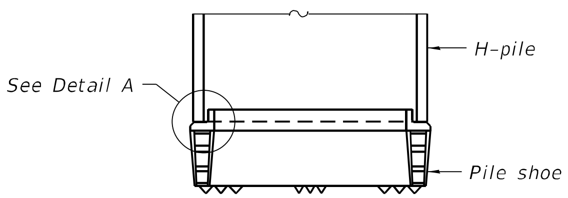
V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME = ___	DESIGNED - JRS	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH ABUTMENT STRUCTURE NO. 017-0032	
		CHECKED - GBR	REVISED - ___			
	PLOT SCALE = ___	DRAWN - JRS	REVISED - ___			
	PLOT DATE = ___	CHECKED - GBR	REVISED - ___		SHEET NO. 16 OF 19 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	63
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

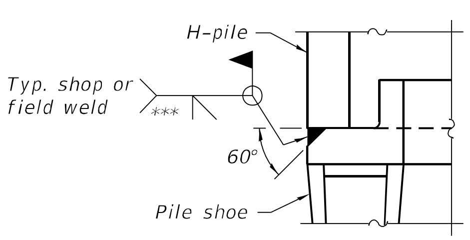


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14¼"	14⅞"	13⁄16"	30"
x102	14"	14¾"	11⁄16"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	11⁄16"	24"
x74	12⅛"	12¼"	⅝"	24"
x63	12"	12⅛"	½"	24"
x53	11¾"	12"	7⁄16"	24"
HP 10x57	10"	10¼"	9⁄16"	24"
x42	9¾"	10⅛"	7⁄16"	24"
HP 8x36	8"	8⅛"	7⁄16"	18"



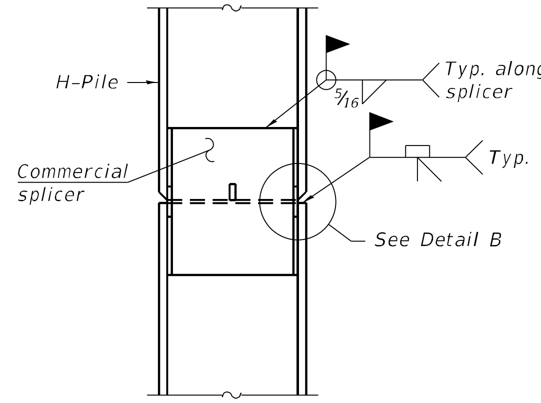
ELEVATION



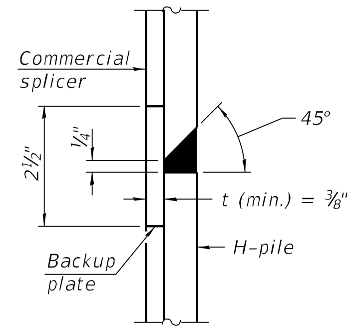
DETAIL A

SHOE ATTACHMENT

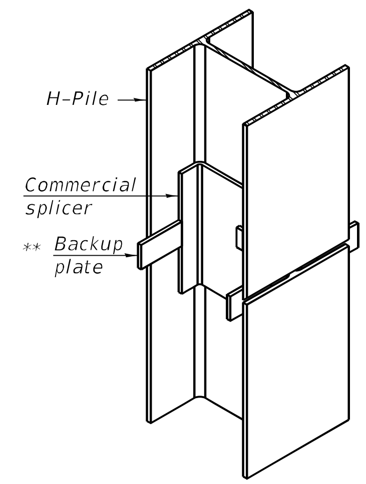
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

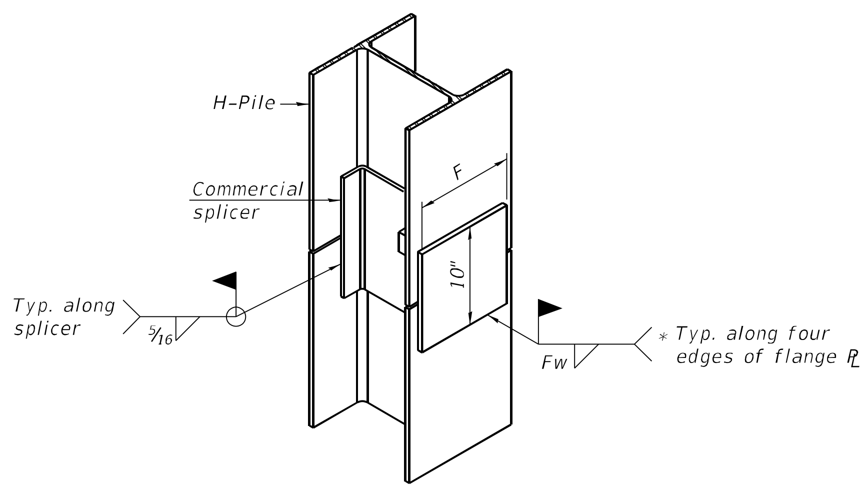


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



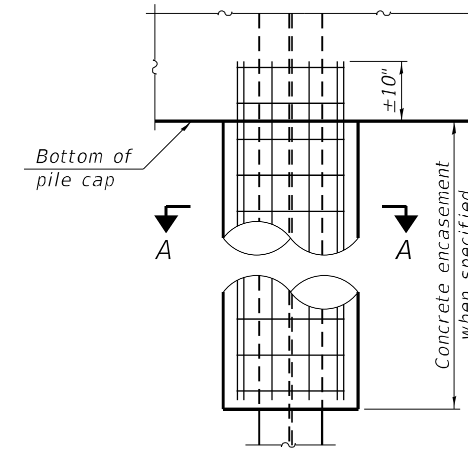
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

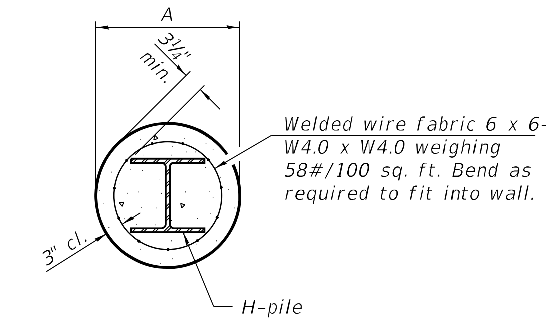
* Interrupt welds ¼" from end of web and/or each flange.

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

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

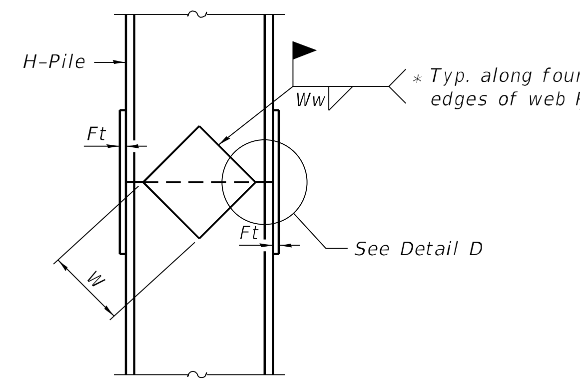


ELEVATION

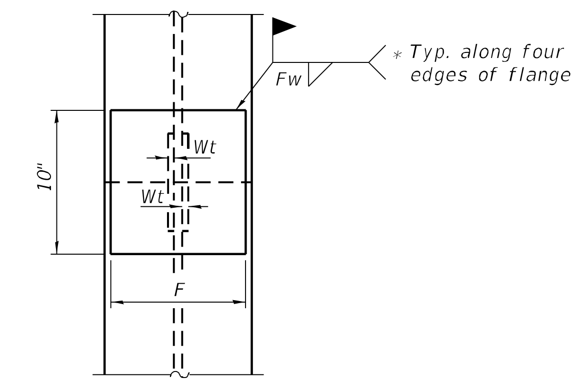


SECTION A-A

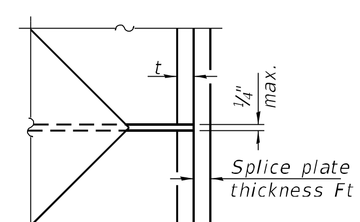
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(Forms for encasement may be omitted when soil conditions permit).



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	11⁄16"	7¾"	⅝"	½"
x73	12½"	⅝"	9⁄16"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	11⁄16"	6½"	⅝"	½"
x74	10"	⅞"	11⁄16"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅝"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	9⁄16"	5¼"	½"	⅜"
x42	8"	⅝"	9⁄16"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	7⁄16"	4¼"	½"	⅜"

WELDED PLATE FIELD SPLICE

F-HP 8-11-2017

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Page 1 of 4

Date 8/25/09

ROUTE FAP 332 (IL 1) DESCRIPTION Spring Creek LOGGED BY E. Sandschafer

SECTION (21Y-NRH-BY)B-1 LOCATION NE 1/4, Sec 35, R12W & NW 1/4, Sec 31, R11W, SEC., TWP. 7 N, RNG., 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0004
Station 209+35

BORING NO. 1 N Abut
Station 208+84
Offset 8.50ft Rt
Ground Surface Elev. 471.26 ft

Surface Water Elev. 455.88 ft
Stream Bed Elev. 455.17 ft

Groundwater Elev.:
First Encounter 435.5 ft
Upon Completion 457.3 ft
After 576 Hrs. 461.1 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3 1/2" asphalt on 17" concrete pavement.	469.56				
Stiff, damp, gray, SILTY CLAY.		-5	1		
			2	1.4	22
			3	B	
No recovery.			5		
			2		
			2		
No recovery.		-10	4		
			1		
			2		
Very stiff, damp, gray marbled brown, CLAY.	459.26		0		
			2	2.4	24
			3	B	
Soft to medium, damp, gray, SILTY LOAM.	456.76	-15	2		
			2	0.5	24
			2	B	
Stiff, damp, gray, CLAY.	454.26		1		
			3	1.7	24
			4	B	
		-20	1		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff, damp, gray, CLAY. *(continued)*			2	1.2	28
			3	B	
Medium, damp, gray, SILTY CLAY.	449.26		2		
			4	0.7	25
			5	B	
Stiff to medium, damp, gray, CLAY w/ some wood splinters.	446.76	-25	1		
			3	1.6	27
			4	B	
			1		
			2	1.5	28
			5	B	
		-30	1		
			2	1.0	32
			3	B	
Very soft, very damp, gray, SILTY LOAM.	436.76	-35	0		
			0	0.1	36
			1	B	
Gray, fine grained, SAND.	435.46				
	431.76	-40	0		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Page 2 of 4

Date 8/25/09

ROUTE FAP 332 (IL 1) DESCRIPTION Spring Creek LOGGED BY E. Sandschafer

SECTION (21Y-NRH-BY)B-1 LOCATION NE 1/4, Sec 35, R12W & NW 1/4, Sec 31, R11W, SEC., TWP. 7 N, RNG., 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0004
Station 209+35

BORING NO. 1 N Abut
Station 208+84
Offset 8.50ft Rt
Ground Surface Elev. 471.26 ft

Surface Water Elev. 455.88 ft
Stream Bed Elev. 455.17 ft

Groundwater Elev.:
First Encounter 435.5 ft
Upon Completion 457.3 ft
After 576 Hrs. 461.1 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very soft, very damp, gray, SILTY LOAM. *(continued)*			0	0.1	24
			0	B	
Medium, wet, gray, fine grained, SAND.	426.76	-45	6		
			11		15
			15		
Hard, damp, gray, CLAY LOAM TILL.	421.76	-50	6		
			11	5.4	12
			17	B	
		-55			
	411.76	-60	0		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very loose, wet, gray, fine grained, SAND. *(continued)*			1		21
	410.56		2		
Soft, wet, gray, SILTY CLAY.		-65			
Stiff, damp, gray, SILTY CLAY SHALE.	401.76	-70	5		
	400.76		7	1.9	16
Gray, SANDY CLAY SHALE.			9	S	
		-75			
	391.76	-80	50/5"		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Page 3 of 4

Date 8/25/09

ROUTE FAP 332 (IL 1) DESCRIPTION Spring Creek LOGGED BY E. Sandschafer

SECTION (21Y-NRH-BY)B-1 LOCATION NE 1/4, Sec 35, R12W & NW 1/4, Sec 31, R11W, SEC., TWP. 7 N, RNG., 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0004
Station 209+35

BORING NO. 1 N Abut
Station 208+84
Offset 8.50ft Rt
Ground Surface Elev. 471.26 ft

Surface Water Elev. 455.88 ft
Stream Bed Elev. 455.17 ft

Groundwater Elev.:
First Encounter 435.5 ft
Upon Completion 457.3 ft
After 576 Hrs. 461.1 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very dense, moist, gray, SILTY CLAY SHALE. *(continued)*	391.06		50/2"		9
			50/1"		
Borehole continued with rock coring.					
		-85			
		-90			
		-95			
		-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

ROCK CORE LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Page 4 of 4

Date 8/25/09

ROUTE FAP 332 (IL 1) DESCRIPTION Spring Creek LOGGED BY E. Sandschafer

SECTION (21Y-NRH-BY)B-1 LOCATION NE 1/4, Sec 35, R12W & NW 1/4, Sec 31, R11W, SEC., TWP. 7 N, RNG., 3 PM

COUNTY Crawford CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 017-0004
Station 209+35

BORING NO. 1 N Abut
Station 208+84
Offset 8.50ft Rt
Ground Surface Elev. 471.26 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 401.76 ft
Begin Core Elev. 391.06 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray, moderate to severe weathered, SILTY CLAY SHALE. *Unable to test for Qu due to numerous fractures.*	391.06		B1C1	83	0	1.8	
		-85	B1C2	81	23	2	
	381.06	-90					
Extent of exploration. Benchmark: BM 113 RR spike in PP NW of existing structure, Sta 207+95, 38' Rt = 468.43' elevation. Provided by Program Development.		-95					
		-100					

Color pictures of the cores Available on request
Cores will be stored for examination until 08/25/2014
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - GBR	REVISED -	
	PLOT SCALE =	DRAWN - JRS	REVISED -	
	PLOT DATE =	CHECKED - GBR	REVISED -	

BORING LOGS
STRUCTURE NO. 017-0032
SHEET NO. 18 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y,21-X)B-1	CRAWFORD	116	65
		CONTRACT NO. 74181		

ILLINOIS FED. AID PROJECT

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Date 8/26/09

ROUTE FAP 332 (IL 1) DESCRIPTION Spring Creek LOGGED BY E. Sandschafer

SECTION (21Y-NRH-BY)B-1 LOCATION NE 1/4, Sec 35, R12W & NW 1/4, Sec 31, R11W, SEC. , TWP. 7 N, RNG. , 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0004
Station 209+35

BORING NO. 2 S Abut
Station 209+92
Offset 30.00ft Lt
Ground Surface Elev. 471.14 ft

Surface Water Elev. 455.88 ft
Stream Bed Elev. 455.17 ft

Groundwater Elev.:
First Encounter 456.1 ft
Upon Completion 445.1 ft
After 552 Hrs. 454.1 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8" shoulderstone and cold millings.	470.44				
Hard, very moist, brown/gray/red, CLAY LOAM.			4		
			5	+4.5	
			7	PP	
		-5	13		
			16	+4.5	22
			10	PP	
			3		
			4	3.1	
			5	S	
	461.64				
Stiff, damp, brown/gray, CLAY w/ trace Silt.		-10	3		
			3	1.9	
			5	B	
			1		
			4	2.8	24
			5	B	
	456.64				
Brown, very damp, SILTY LOAM.	456.14	-15	1		
Medium, damp, gray, SANDY LOAM.			4	0.8	24
			3	S	
	454.14				
Medium to stiff, damp, gray, SILTY CLAY.			0		
			1	0.7	24
			1	B	
		-20	1		
Medium to stiff, damp, gray, SILTY CLAY. *(continued)*			2	1.3	28
			5	B	
			0		
			1	1.1	25
			1	B	
		-25	1		
			2	0.8	27
			2	B	
	444.14				
Soft, damp, gray, SILTY CLAY.			0		
			0	0.5	28
			1	B	
	441.64				
Very stiff, damp, gray mottled brown, SILTY CLAY.		-30	3		
			5	2.6	32
			6	B	
	436.64				
Hard, damp, gray, CLAY LOAM TILL.		-35	9		
			14	5.5	36
			28	B	
		-40	7		

Latitude W 87 deg 41.077 min., Longitude N 39 deg 00.786 min., Mac Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Date 8/26/09

ROUTE FAP 332 (IL 1) DESCRIPTION Spring Creek LOGGED BY E. Sandschafer

SECTION (21Y-NRH-BY)B-1 LOCATION NE 1/4, Sec 35, R12W & NW 1/4, Sec 31, R11W, SEC. , TWP. 7 N, RNG. , 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0004
Station 209+35

BORING NO. 2 S Abut
Station 209+92
Offset 30.00ft Lt
Ground Surface Elev. 471.14 ft

Surface Water Elev. 455.88 ft
Stream Bed Elev. 455.17 ft

Groundwater Elev.:
First Encounter 456.1 ft
Upon Completion 445.1 ft
After 552 Hrs. 454.1 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, damp, gray, CLAY LOAM TILL. *(continued)*			11	4.7	24
			16	B	
		-45	7		
			13	4.6	15
			17	B	
	421.64				
Stiff to very stiff, damp, gray, CLAY TILL.		-50	2		
			5	2.0	12
			29	B	
		-55			
	411.64				
Stiff, damp, gray, SANDY CLAY.		-60	1		
Stiff, damp, gray, SANDY CLAY. *(continued)*			6	1.2	21
			8	B	
		-65			
	401.64				
Stiff, damp, blue, SILTY CLAY SHALE.		-70	1		
			4	1.7	16
			9	BS	
		-75			
	391.64				
		-80	50		

Latitude W 87 deg 41.077 min., Longitude N 39 deg 00.786 min., Mac Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Date 8/26/09

ROUTE FAP 332 (IL 1) DESCRIPTION Spring Creek LOGGED BY E. Sandschafer

SECTION (21Y-NRH-BY)B-1 LOCATION NE 1/4, Sec 35, R12W & NW 1/4, Sec 31, R11W, SEC. , TWP. 7 N, RNG. , 3 PM

COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 017-0004
Station 209+35

BORING NO. 2 S Abut
Station 209+92
Offset 30.00ft Lt
Ground Surface Elev. 471.14 ft

Surface Water Elev. 455.88 ft
Stream Bed Elev. 455.17 ft

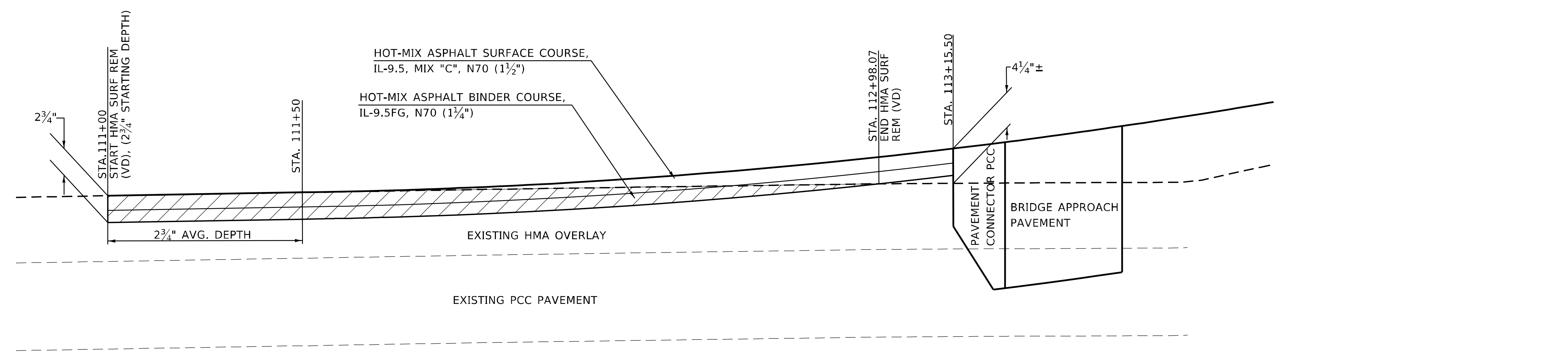
Groundwater Elev.:
First Encounter 456.1 ft
Upon Completion 445.1 ft
After 552 Hrs. 454.1 ft

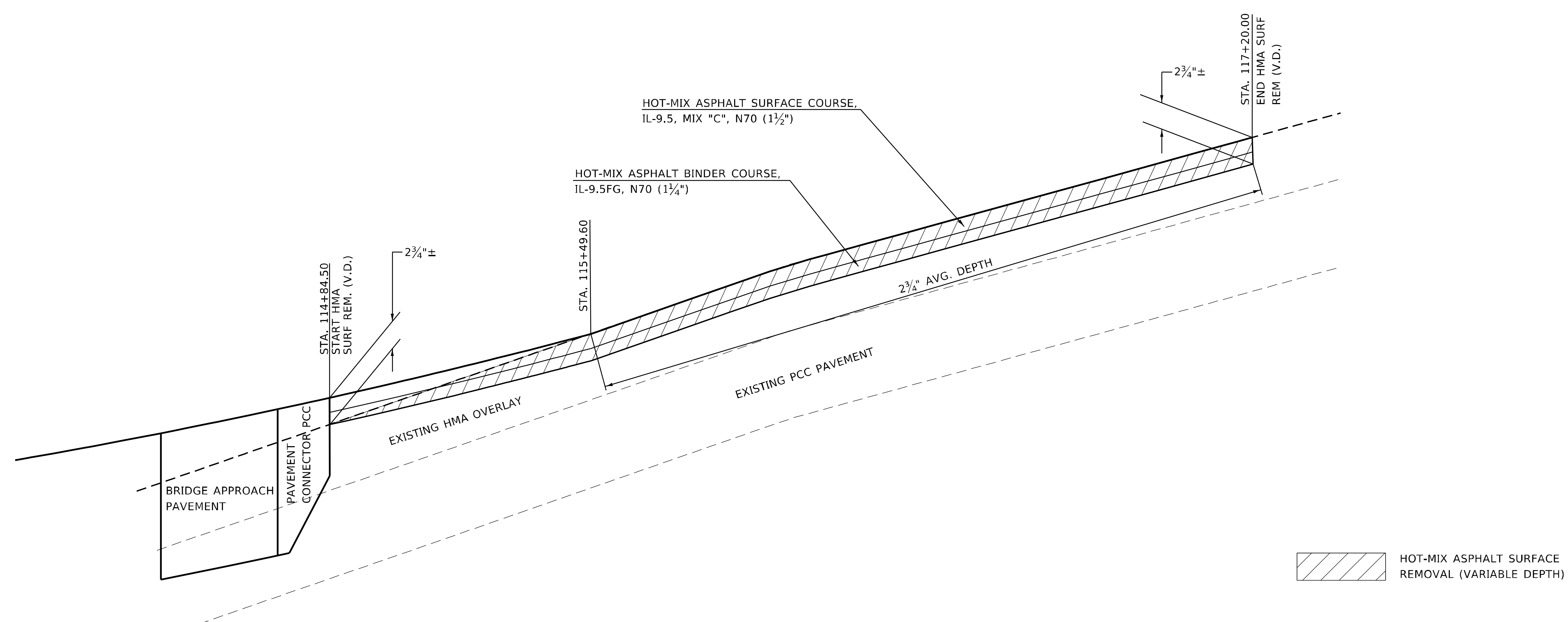
Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very dense, moist, gray, SILTY CLAY SHALE. *(continued)*	390.84		50/2"		9
			50/2"		
Extent of exploration.					
Benchmark: BM 113 RR spike in PP NW of existing structure, Sta 207+95, 38' Rt = 468.43' elevation. Provided by Program Development.		-85			
		-90			
		-95			
		-100			

Latitude W 87 deg 41.077 min., Longitude N 39 deg 00.786 min., Mac Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

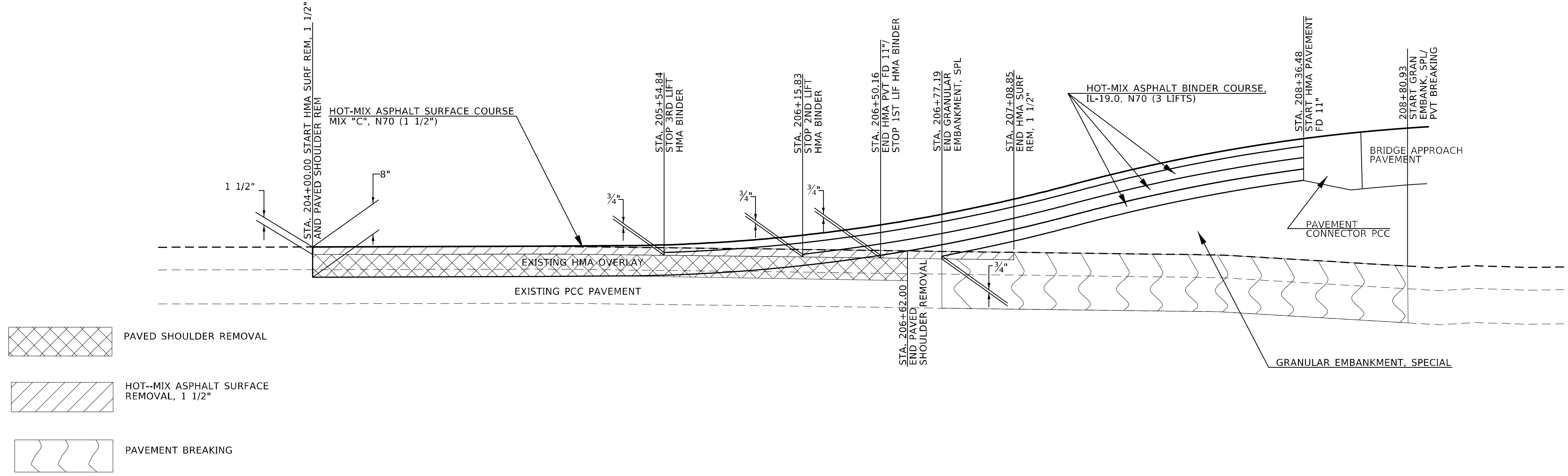
BBS, from 137 (Rev. 8-99)

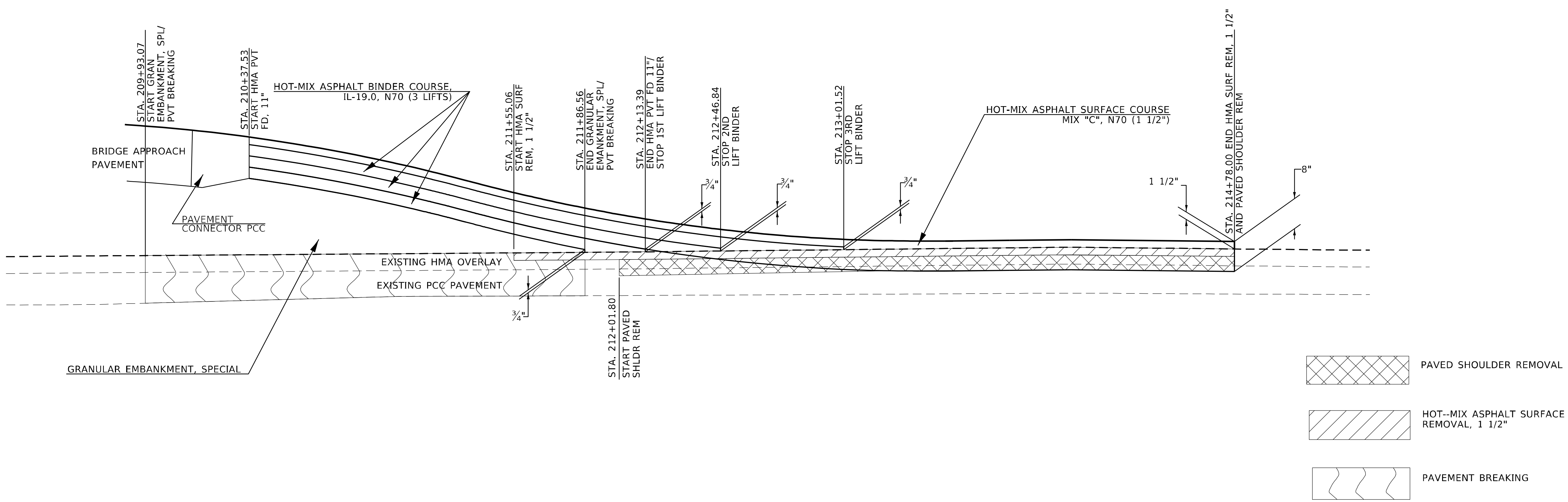




MODEL: Default
FILE NAME: pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-details.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MILLING AND PAVING DETAILS S.N. 017–0033	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -			332	(21-Y, 21-X)B-1	CRAWFORD	116 / 67
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 74181			
PLOT DATE = 8/18/2021	DATE -	REVISED -		SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT			





MODEL: Default
FILE NAME: pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-details.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/18/2021	DATE -	REVISED -	

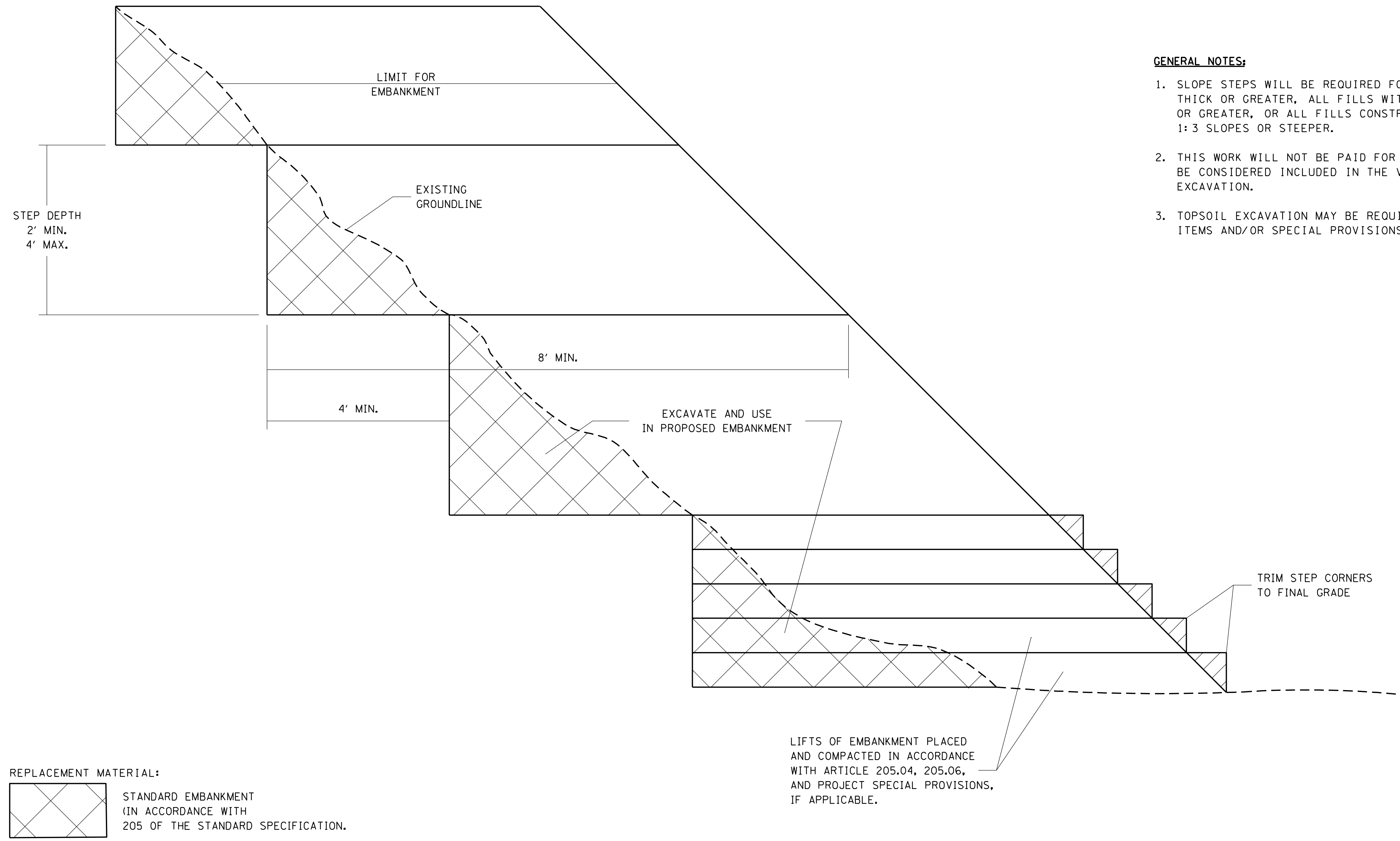
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MILLING AND PAVING DETAILS
S.N. 017–0032

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	68
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

SLOPE STEPS DETAIL
TYPICAL SECTION



GENERAL NOTES:

1. SLOPE STEPS WILL BE REQUIRED FOR ALL FILLS 12" THICK OR GREATER, ALL FILLS WITH A HEIGHT OF 10' OR GREATER, OR ALL FILLS CONSTRUCTED ON EXISTING 1:3 SLOPES OR STEEPER.
2. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION.
3. TOPSOIL EXCAVATION MAY BE REQUIRED. SEE PROJECT PAY ITEMS AND/OR SPECIAL PROVISIONS.

FILE NAME = pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADD\...sheets\D774181-sht-details.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	DRAWN	REVISED -
	PLOT DATE = 8/18/2021	CHECKED -	REVISED -
Default		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPE STEPS DETAIL

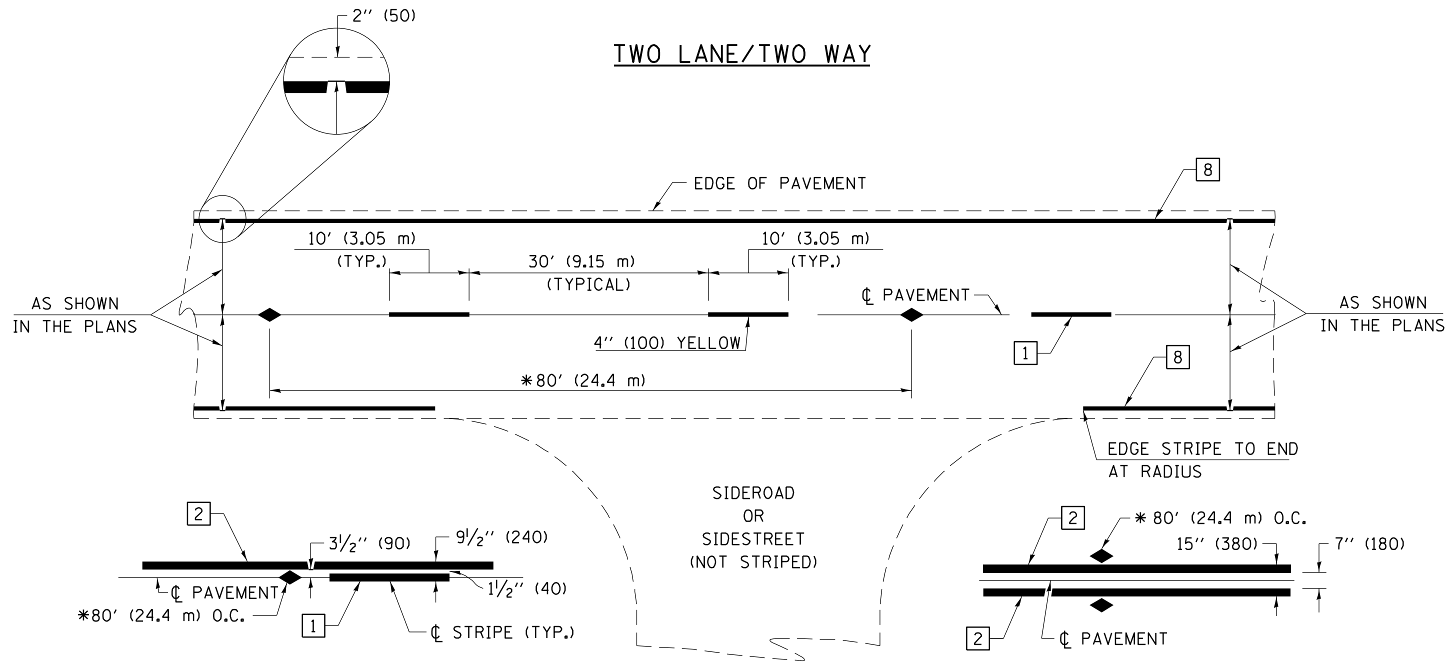
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	69

CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT

TWO LANE/TWO WAY



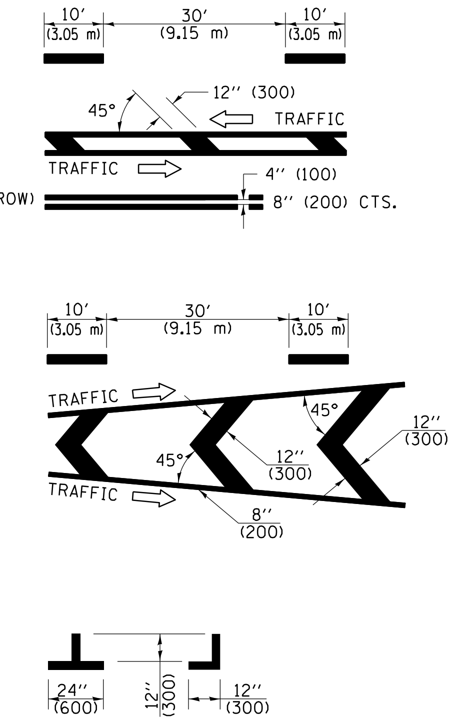
SINGLE NO PASSING

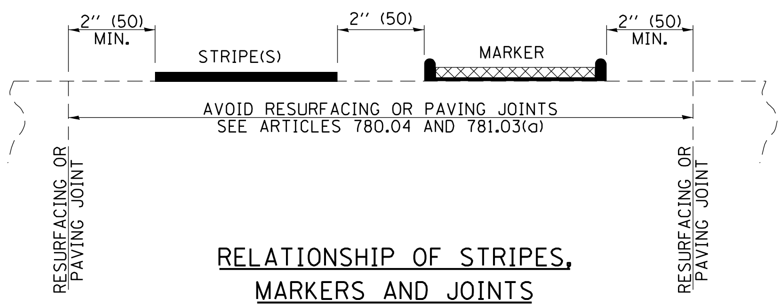
DOUBLE NO PASSING

* REDUCE TO 40' (12.2 m) O.C. ON
CURVES WITH POSTED OR ADVISORY
SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

1. 4" (100) SKIP-DASH (YELLOW)
2. 4" (100) SOLID (YELLOW)
3. 12" (300) DIAGONAL (YELLOW)
4. 4" (100) DOUBLE YELLOW (NARROW)
5. 12" (300) SOLID WHITE
6. RESERVED
7. 6" (150) SKIP-DASH (WHITE)
8. 4" (100) SOLID (WHITE)
9. 12" (300) DIAGONAL (WHITE)
10. 6" (150) SOLID (WHITE)
11. 24" (600) STOP BAR (WHITE)
12. 8" (200) SOLID (WHITE)
13. 4" (100) PARKING WHITE





RELATIONSHIP OF STRIPES,
MARKERS AND JOINTS

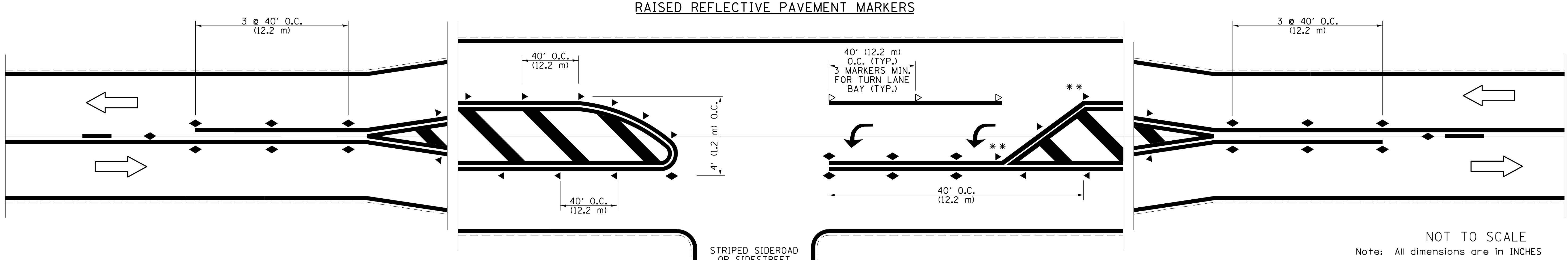
TYPICAL PAVEMENT MARKERS LEGEND

◆ TWO-WAY AMBER MARKER

▶ ONE-WAY AMBER MARKER

▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



** REDUCE SPACING IF NECESSARY TO ASSURE
MARKERS AT CORNER POINTS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME = pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADD\Sheets\D774181-sht-details.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

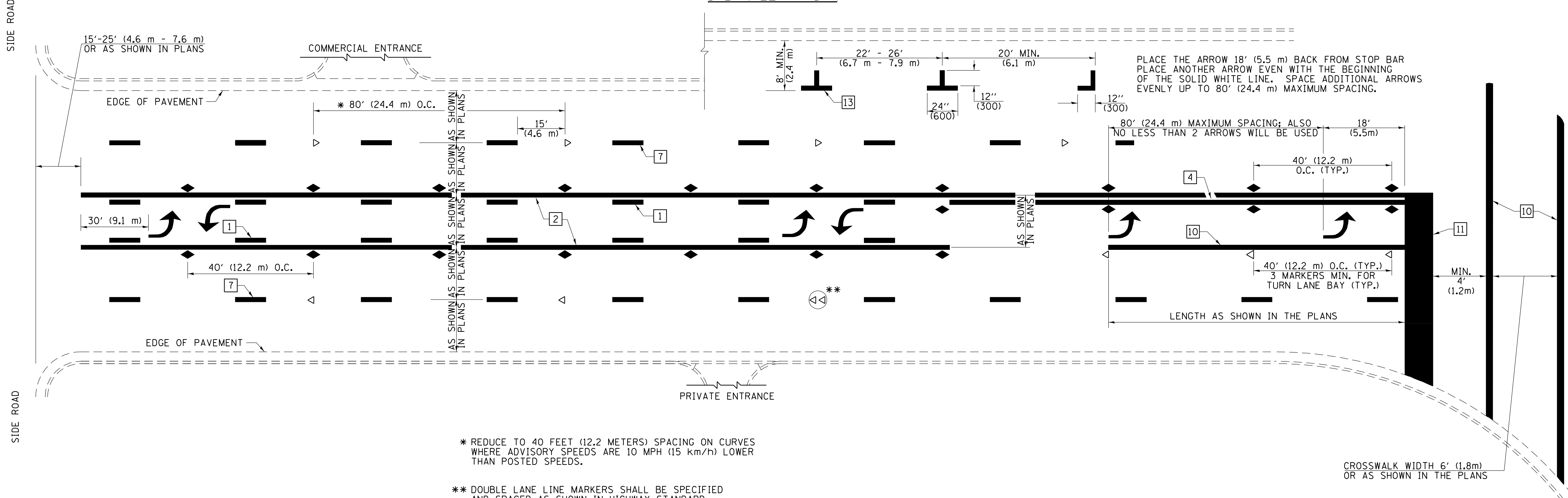
SCALE: | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	70

CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT

URBAN LEFT TURN

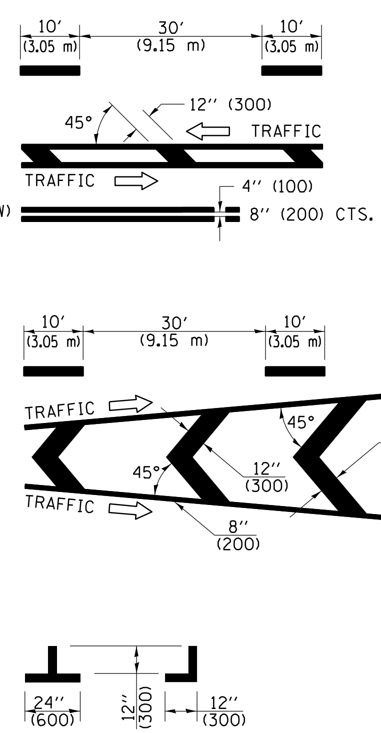


* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

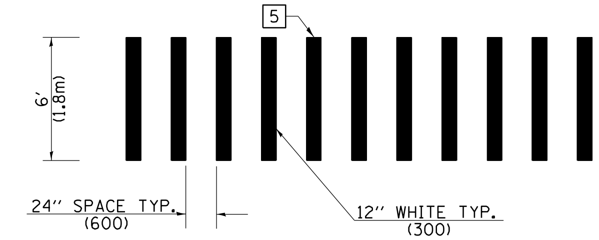
PAVEMENT MARKING LEGEND

1	4'' (100) SKIP-DASH (YELLOW)
2	4'' (100) SOLID (YELLOW)
3	12'' (300) DIAGONAL (YELLOW)
4	4'' (100) DOUBLE YELLOW (NARROW)
5	12'' (300) SOLID WHITE
6	RESERVED
7	6'' (150) SKIP-DASH (WHITE)
8	4'' (100) SOLID (WHITE)
9	12'' (300) DIAGONAL (WHITE)
10	6'' (150) SOLID (WHITE)
11	24'' (600) STOP BAR (WHITE)
12	8'' (200) SOLID (WHITE)
13	4'' (100) PARKING WHITE

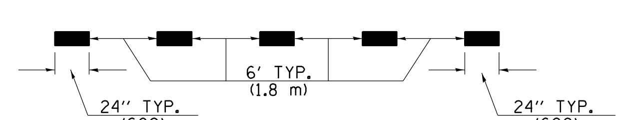


GENERAL NOTES

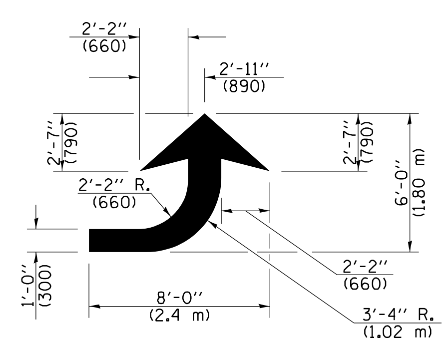
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS 2 SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS 1 OR 7 SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



CROSSWALK DETAIL
(DECATUR CITY LIMITS ONLY)



LANE LINE EXTENSIONS

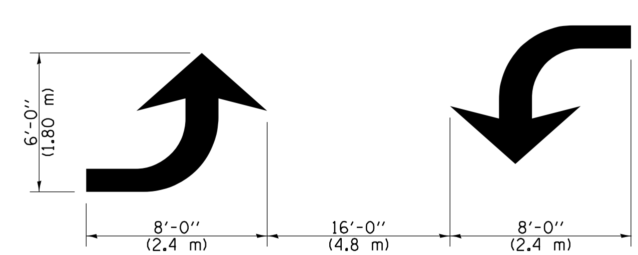


LEFT ARROW

REVERSE FOR RIGHT ARROW

AREA = 15.6 SQ. FT. (1.47 m^2)

(WHITE)



TYPICAL DOUBLE
TURN ARROWS (WHITE)

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME = pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADD\Sheets\D774181-sht-details.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -
		CHECKED -	REVISED -
	PLOT DATE = 8/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

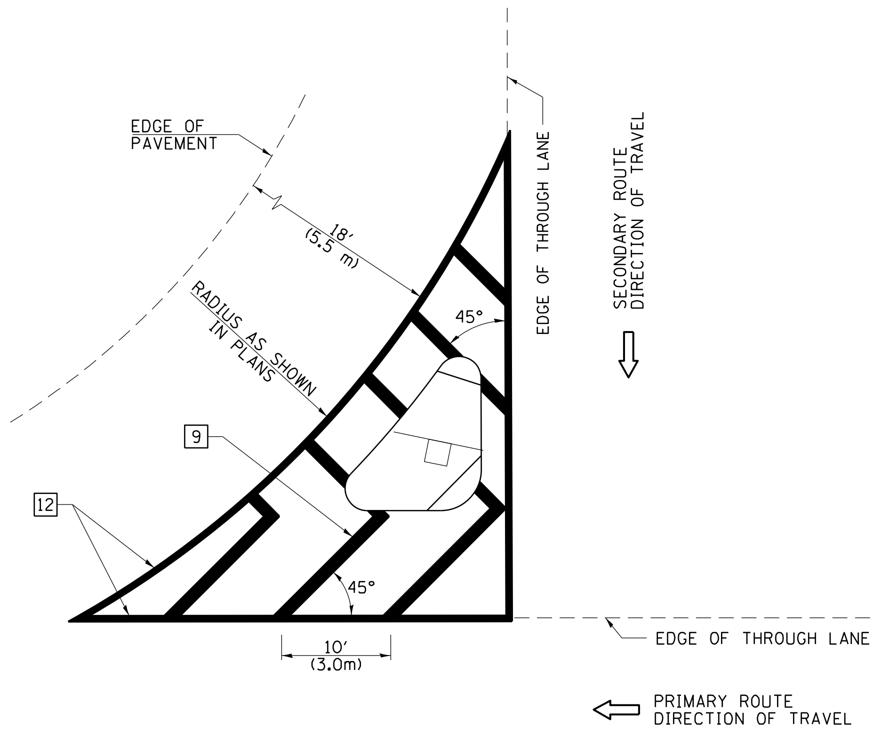
PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	71
		CONTRACT NO. 74181		

ILLINOIS FED. AID PROJECT

ISLAND



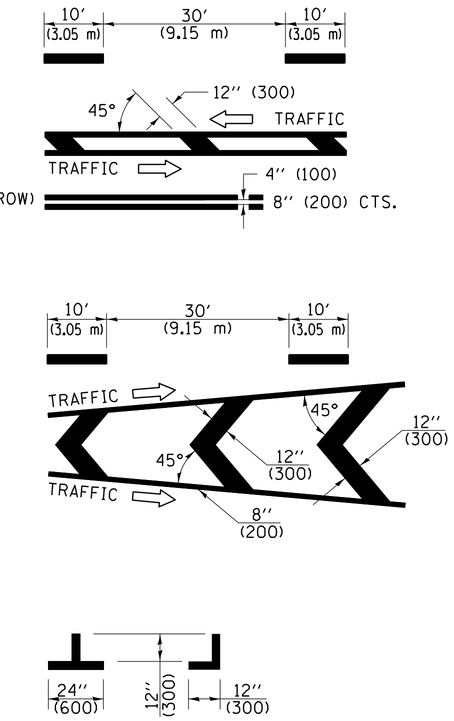
GENERAL NOTES

1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH 2 IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

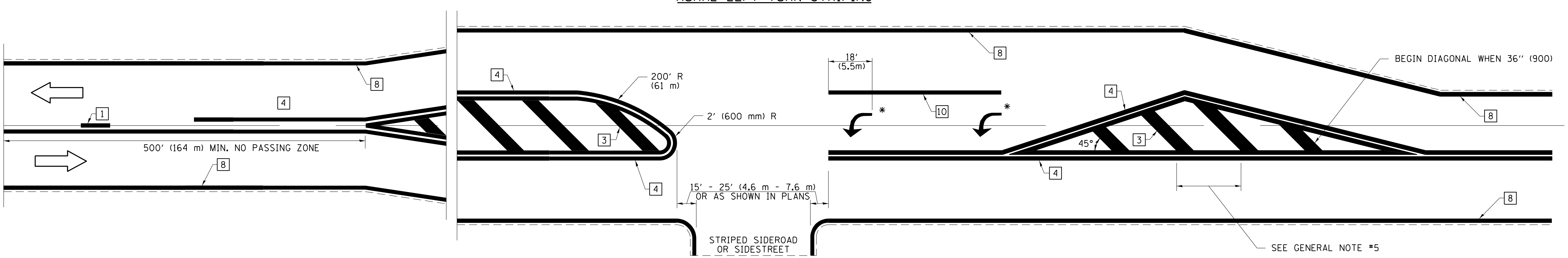
<30 MPH	(<50 km/h)	15′ (4.5 m)
30-45 MPH	(50-75 km/h	20′ (6.0 m)
>45 MPH	(>75 km/h	30′ (9.0 m)

PAVEMENT MARKING LEGEND

1 4″ (100) SKIP-DASH (YELLOW)
2 4″ (100) SOLID (YELLOW)
3 12″ (300) DIAGONAL (YELLOW)
4 4″ (100) DOUBLE YELLOW (NARROW)
5 12″ (300) SOLID WHITE
6 RESERVED
7 6″ (150) SKIP-DASH (WHITE)
8 4″ (100) SOLID (WHITE)
9 12″ (300) DIAGONAL (WHITE)
10 6″ (150) SOLID (WHITE)
11 24″ (600) STOP BAR (WHITE)
12 8″ (200) SOLID (WHITE)
13 4″ (100) PARKING WHITE



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18′ (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80′ (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME = pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\Sheets\D774181-sht-details.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	DRAWN -	REVISED -
	PLOT DATE = 8/18/2021	CHECKED -	REVISED -
		DATE -	REVISED -

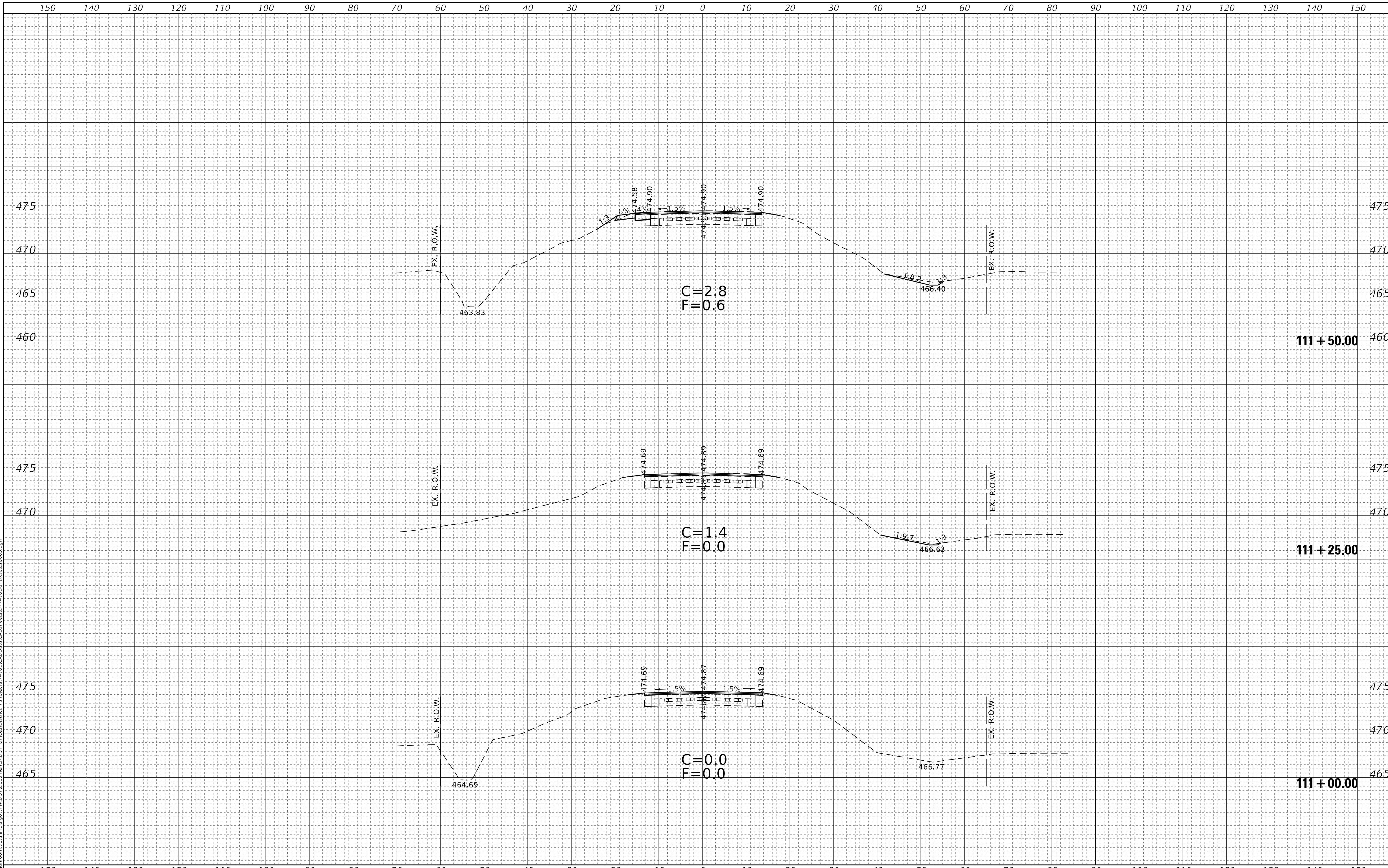
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	72
		CONTRACT NO. 74181		

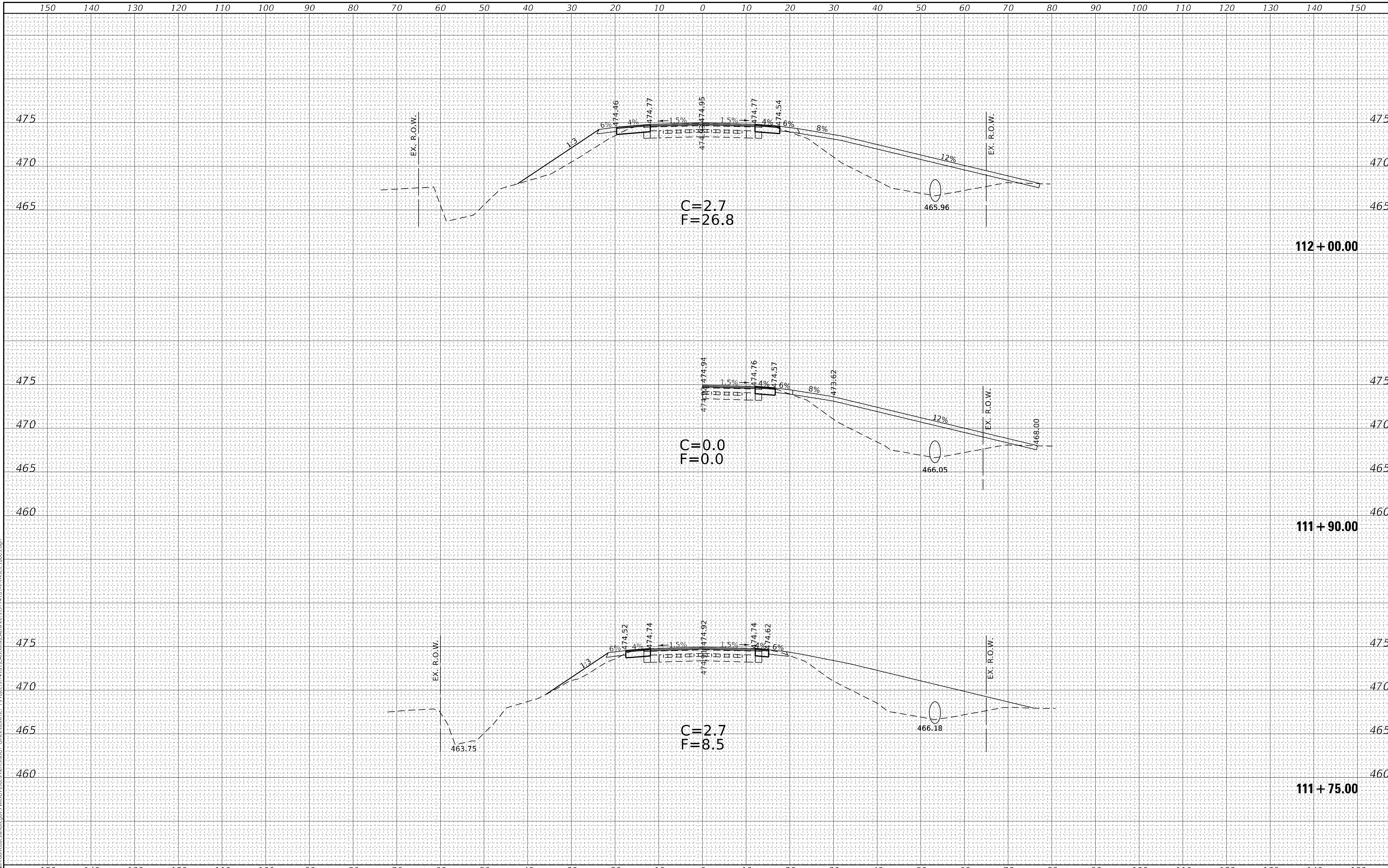
ILLINOIS FED. AID PROJECT



USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 1 S.N. 017–0033
	DRAWN -	REVISED -		
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 10H:5V SHEET 1 OF 9 SHEETS STA. 111+00.00 TO STA. 111+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	73
CONTRACT NO. 74181				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\\idot.plnroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsect-10003.dgn



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

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

MODEL: Default
FILE NAME: pw:\\idotrnoom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xs-IL-10003.dgn

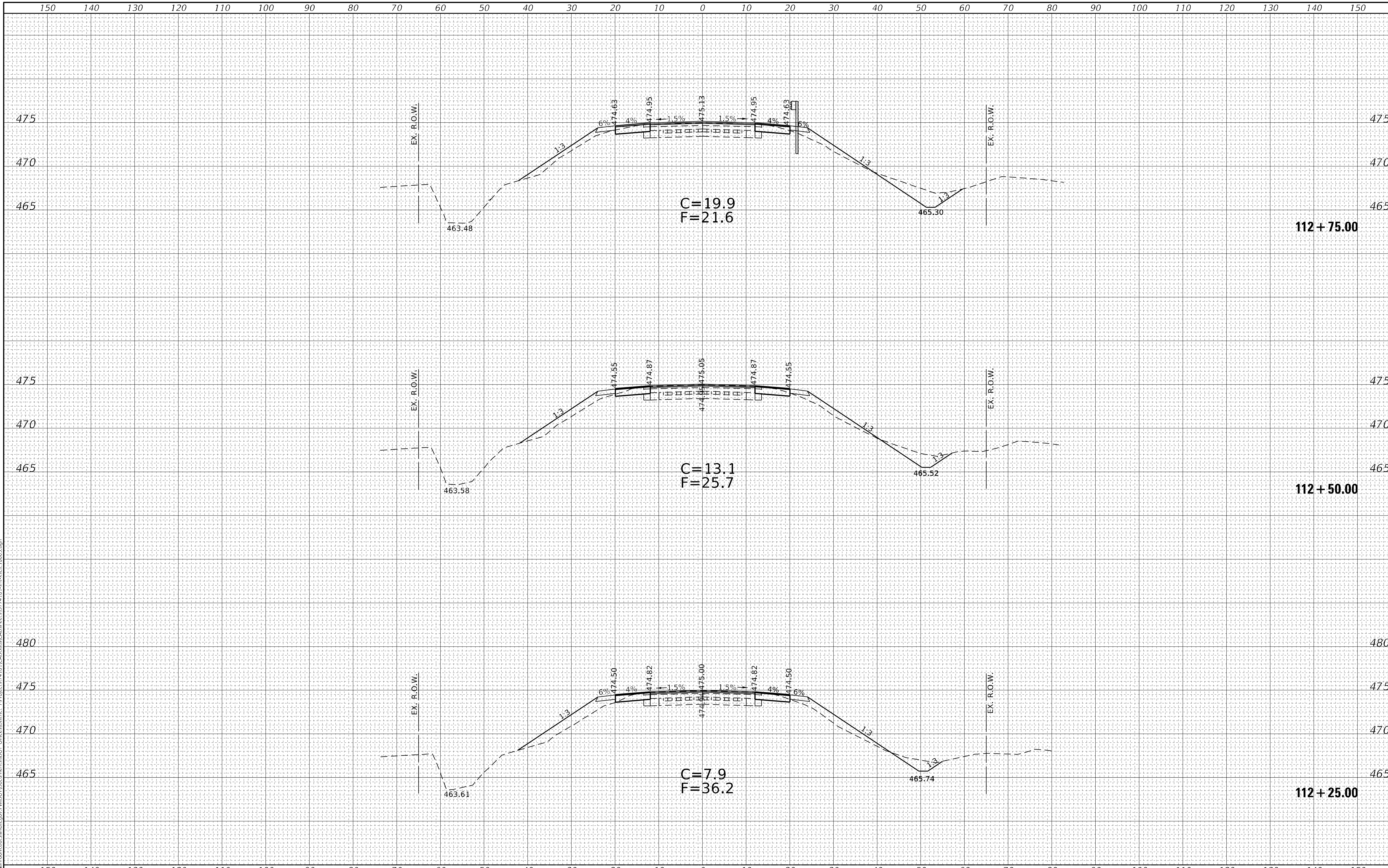
USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS IL 1
S.N. 017–0033

SCALE: 10H:5V | SHEET 2 OF 9 SHEETS | STA. 111+75.00 TO STA. 112+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	74
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



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

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

MODEL: Default
FILE NAME: pw:\\idotroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsecIL10003.dgn

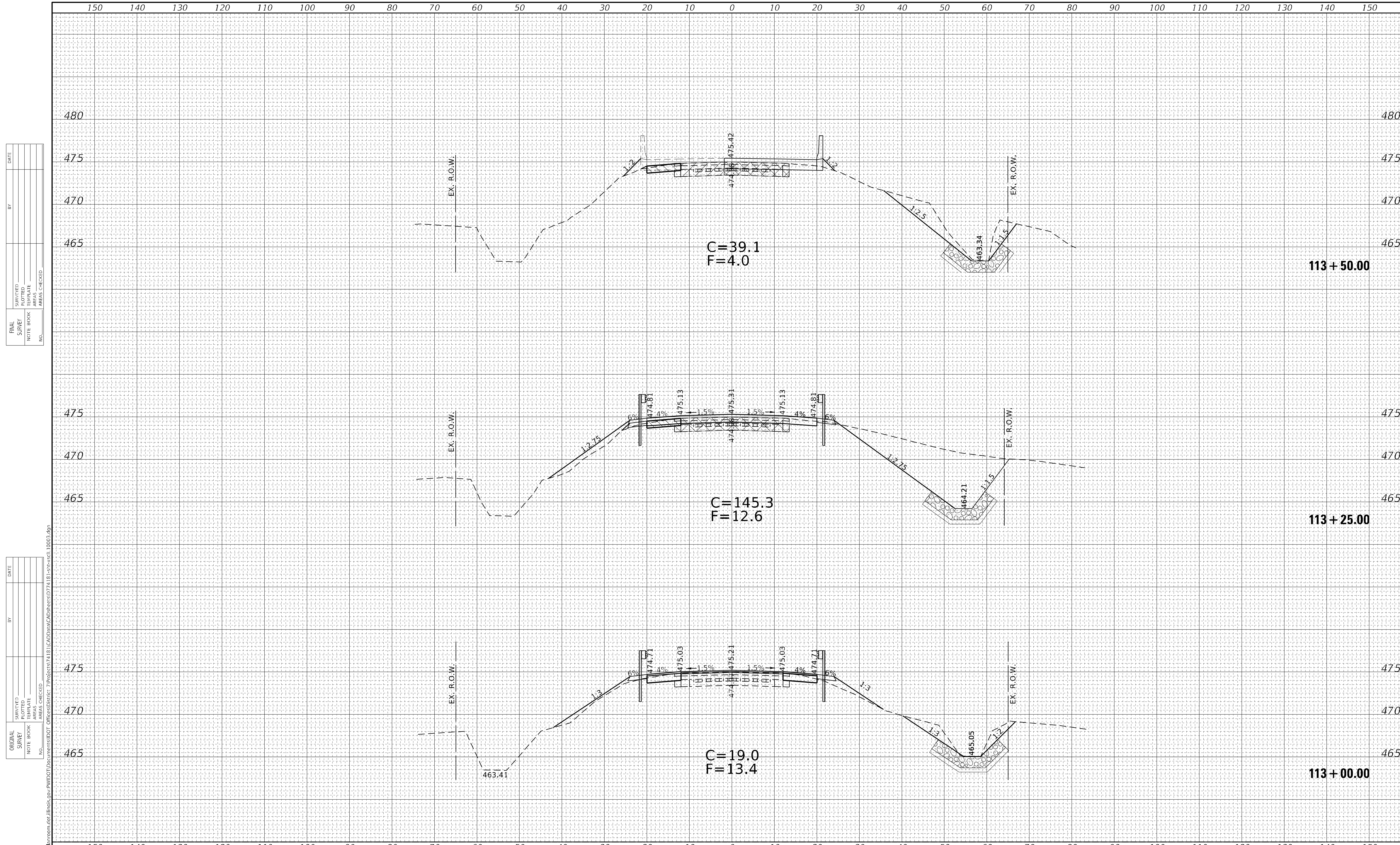
USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS IL 1
S.N. 017–0033

SCALE: 10H:5V | SHEET 3 OF 9 SHEETS | STA. 112+25.00 TO STA. 112+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	75
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



MODEL: Default

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

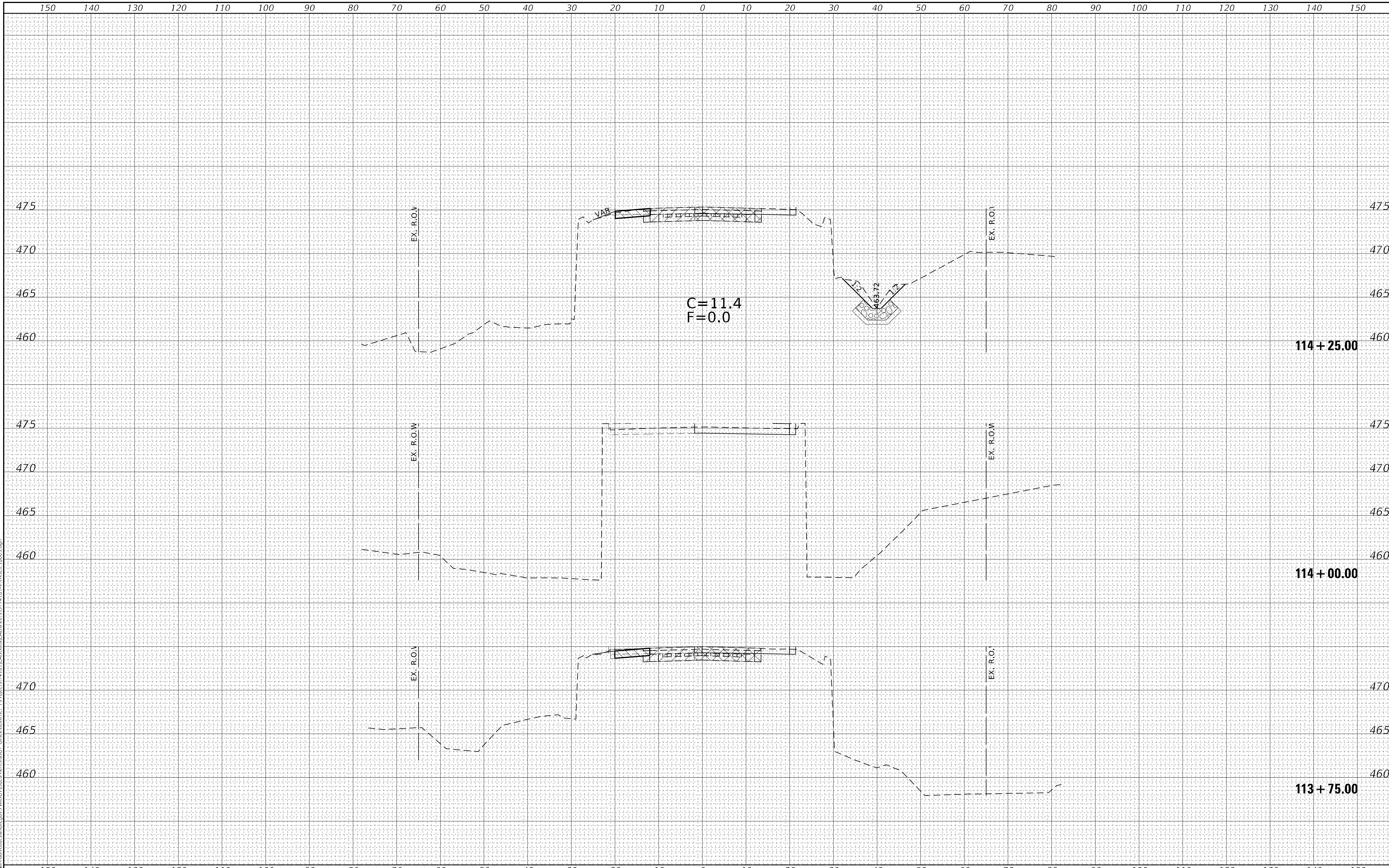
CROSS SECTIONS IL 1
S.N. 017–0033

SCALE: 10V:5V | SHEET 4 OF 9 SHEETS | STA. 113+00.00 TO STA. 113+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	76

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT



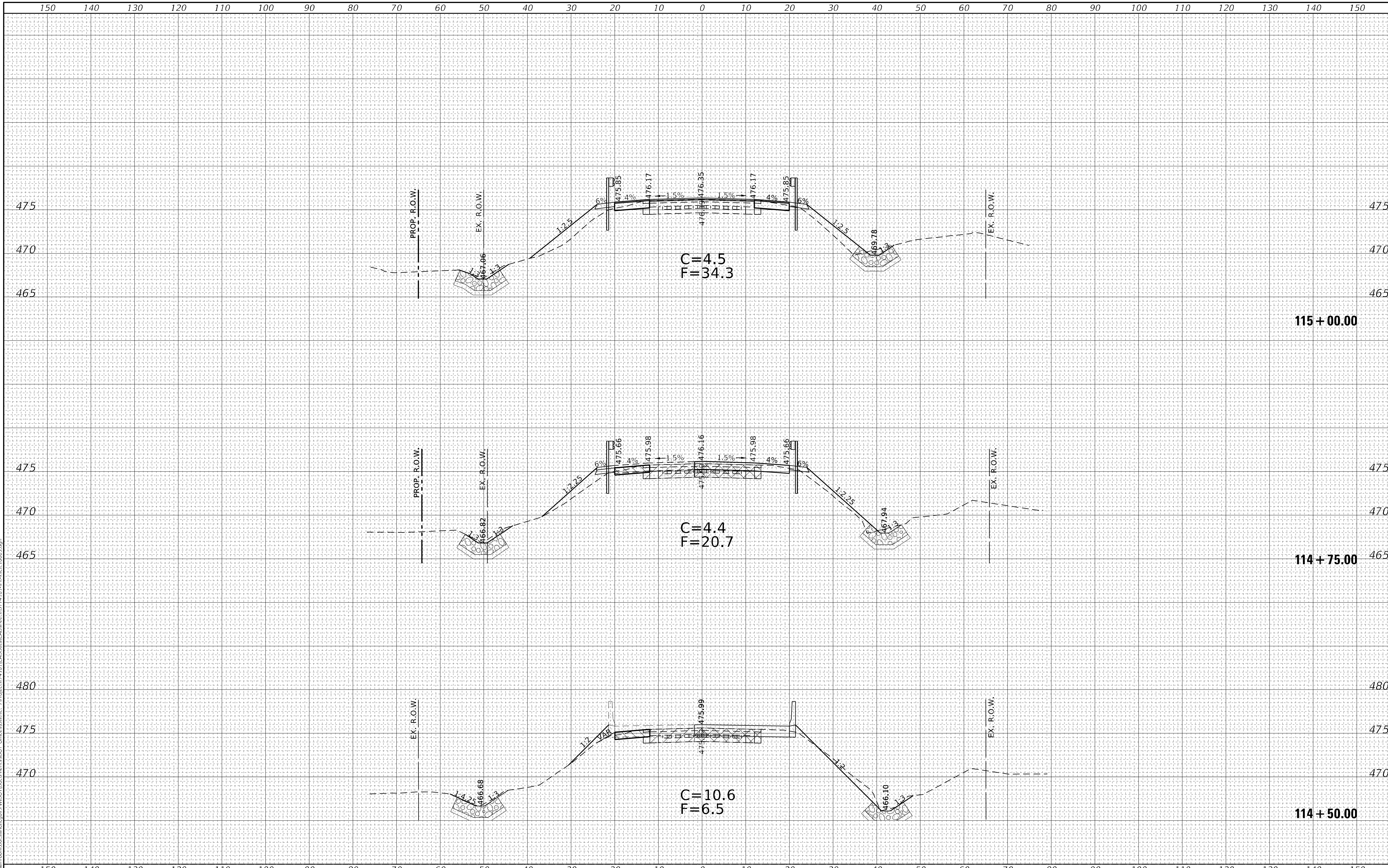
USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 1 S.N. 017-0033
	DRAWN -	REVISED -		
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 10H:5V SHEET 5 OF 9 SHEETS STA. 113+75.00 TO STA. 114+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	77
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\\dalroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CAD Data\CADSheets\D774181-sht-xsctl-10003.dgn

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

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



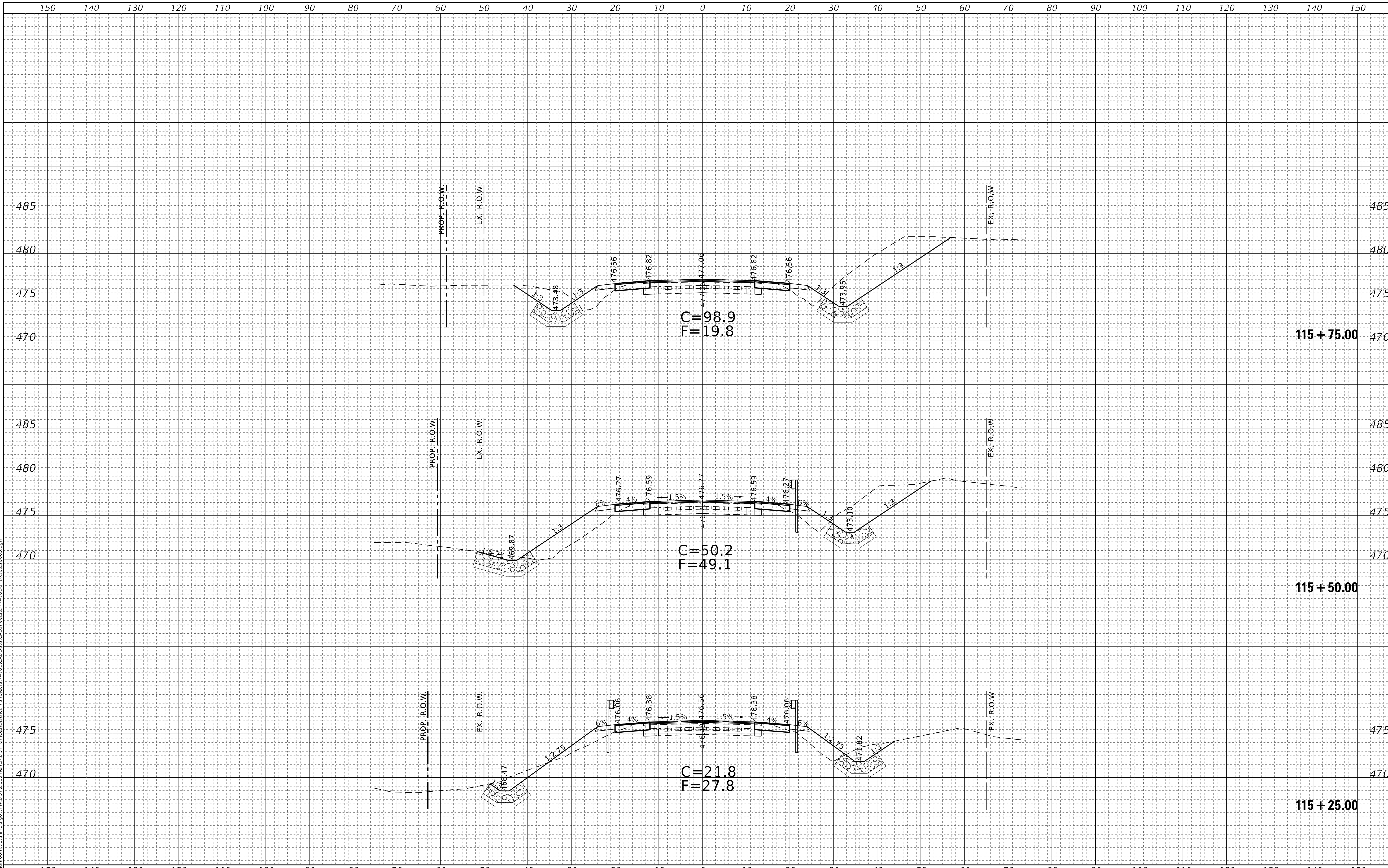
USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS IL 1
S.N. 017–0033

SCALE: 10H:5V SHEET 6 OF 9 SHEETS STA. 114+50.00 TO STA. 115+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	78
		CONTRACT NO. 74181		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL: Default
FILE NAME: pw:\\dalroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsectil-10003.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

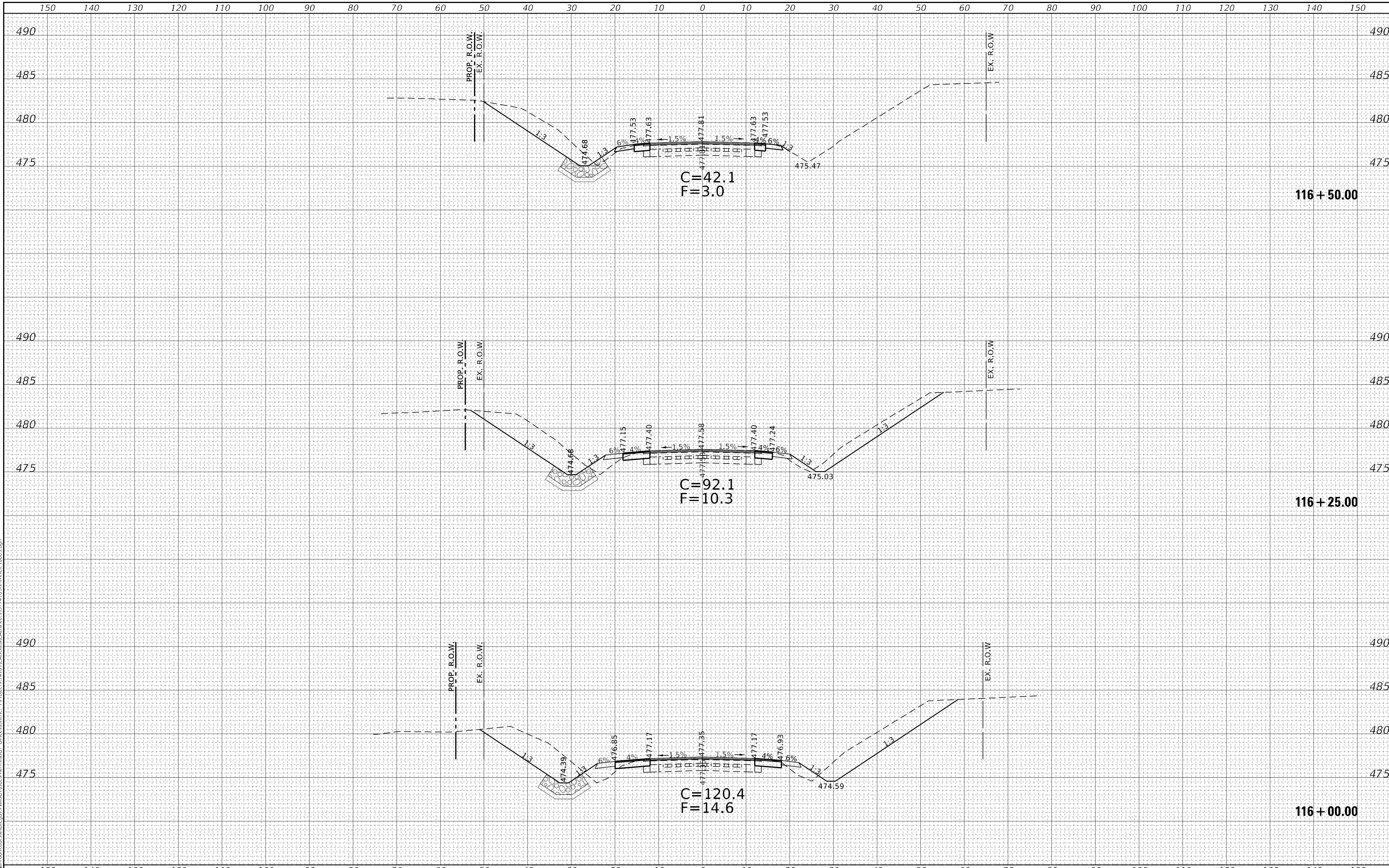
CROSS SECTIONS IL 1
S.N. 017–0033

SCALE: 10H:5V | SHEET 7 OF 9 SHEETS | STA. 115+25.00 TO STA. 115+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	79

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS IL 1
S.N. 017–0033

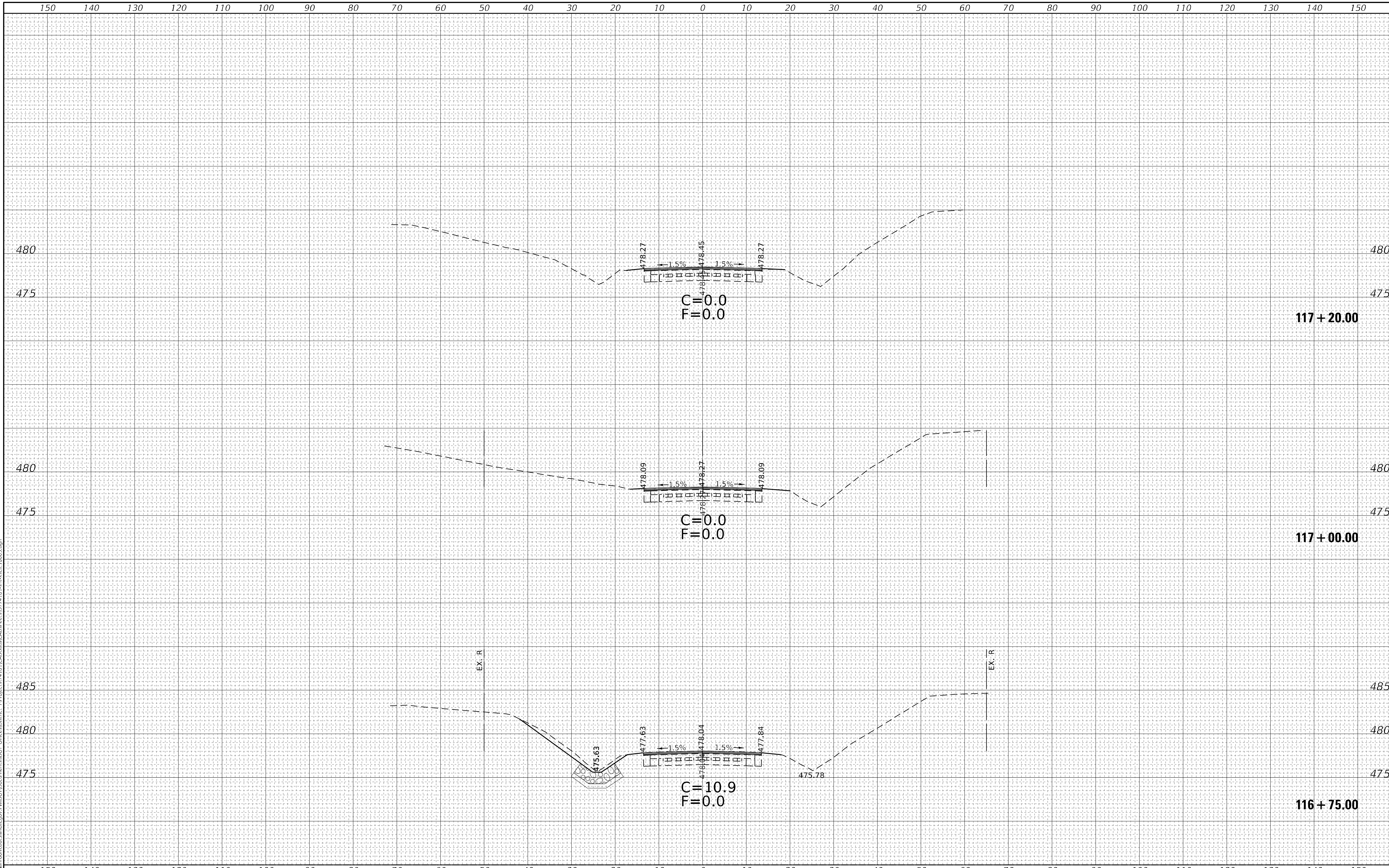
SCALE: 10H:5V | SHEET 8 OF 9 SHEETS | STA. 116+00.00 TO STA. 116+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	80

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT

MODEL: Default



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

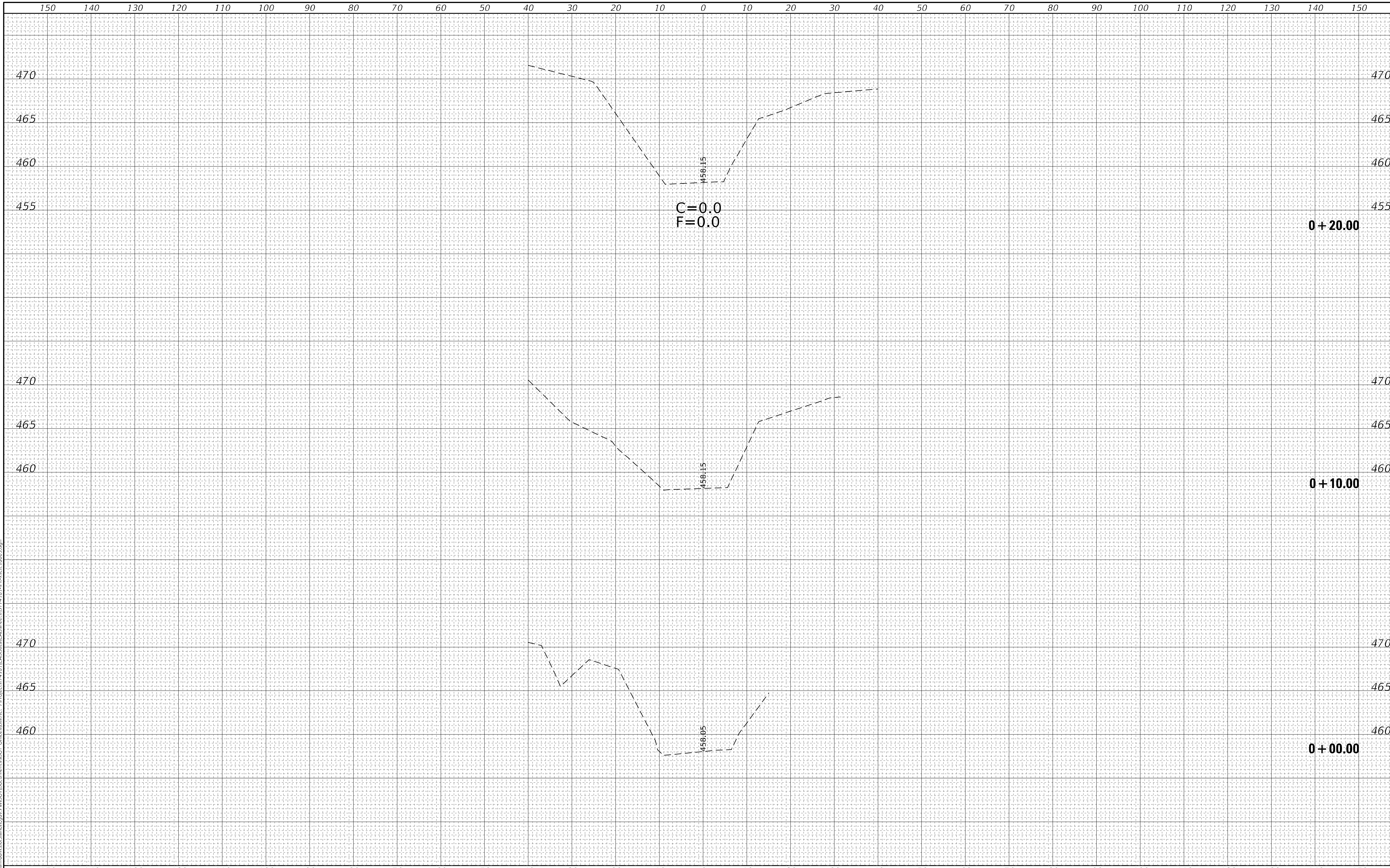
CROSS SECTIONS IL 1
S.N. 017–0033

SCALE: 10H:5V | SHEET 9 OF 9 SHEETS | STA. 116+75.00 TO STA. 117+20.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	81

CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT



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

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

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADsheets\D774181-sht-xscIL10003.dgn

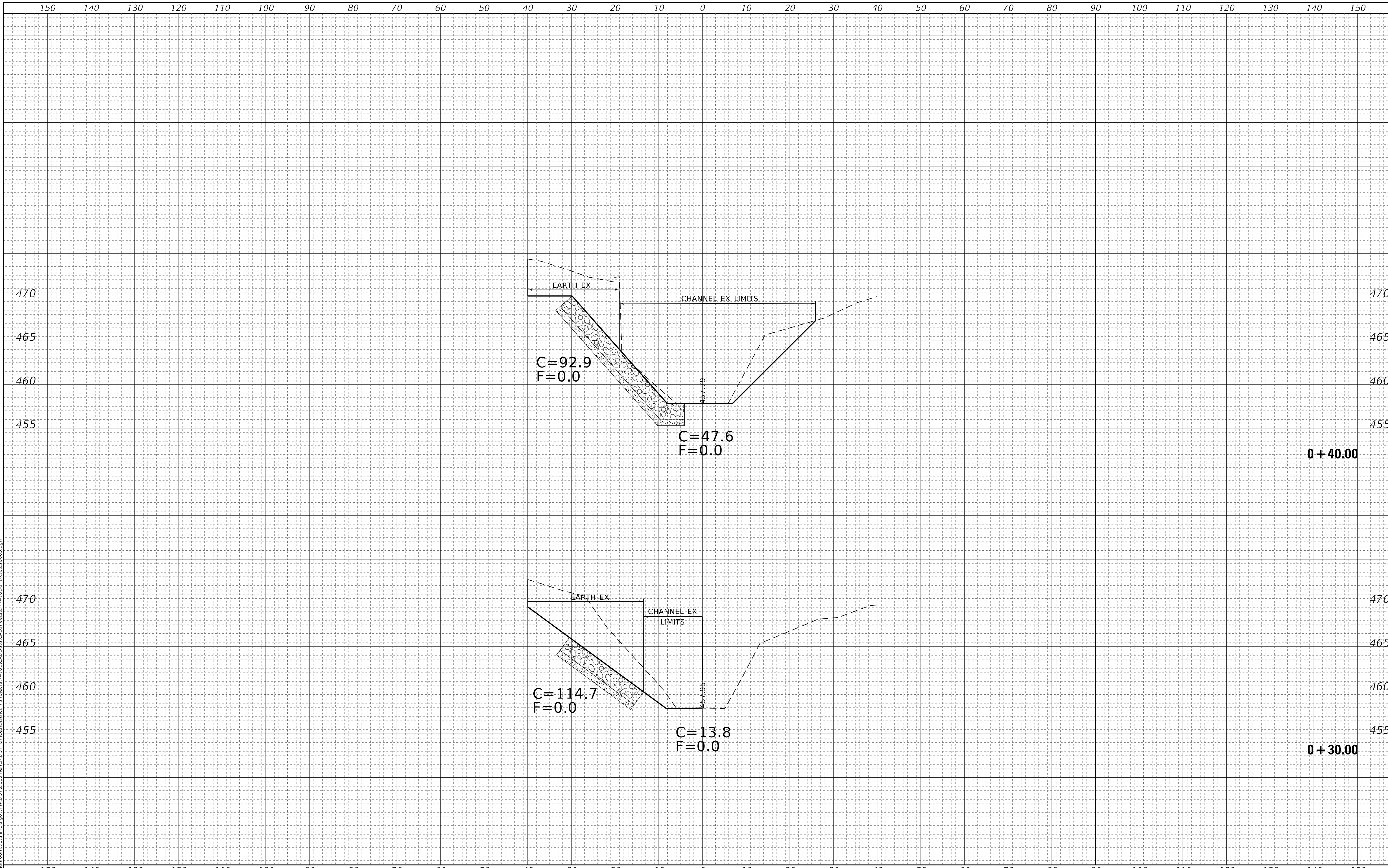
USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS SUGAR CREEK
S.N. 017–0033

SCALE: 10H:5V | SHEET 1 OF 8 SHEETS | STA. 0+00.00 TO STA. 0+20.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	82
		CONTRACT NO. 74181		
		ILLINOIS	FED. AID PROJECT	



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

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

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADsheets\D774181-sht-xscIL10003.dgn

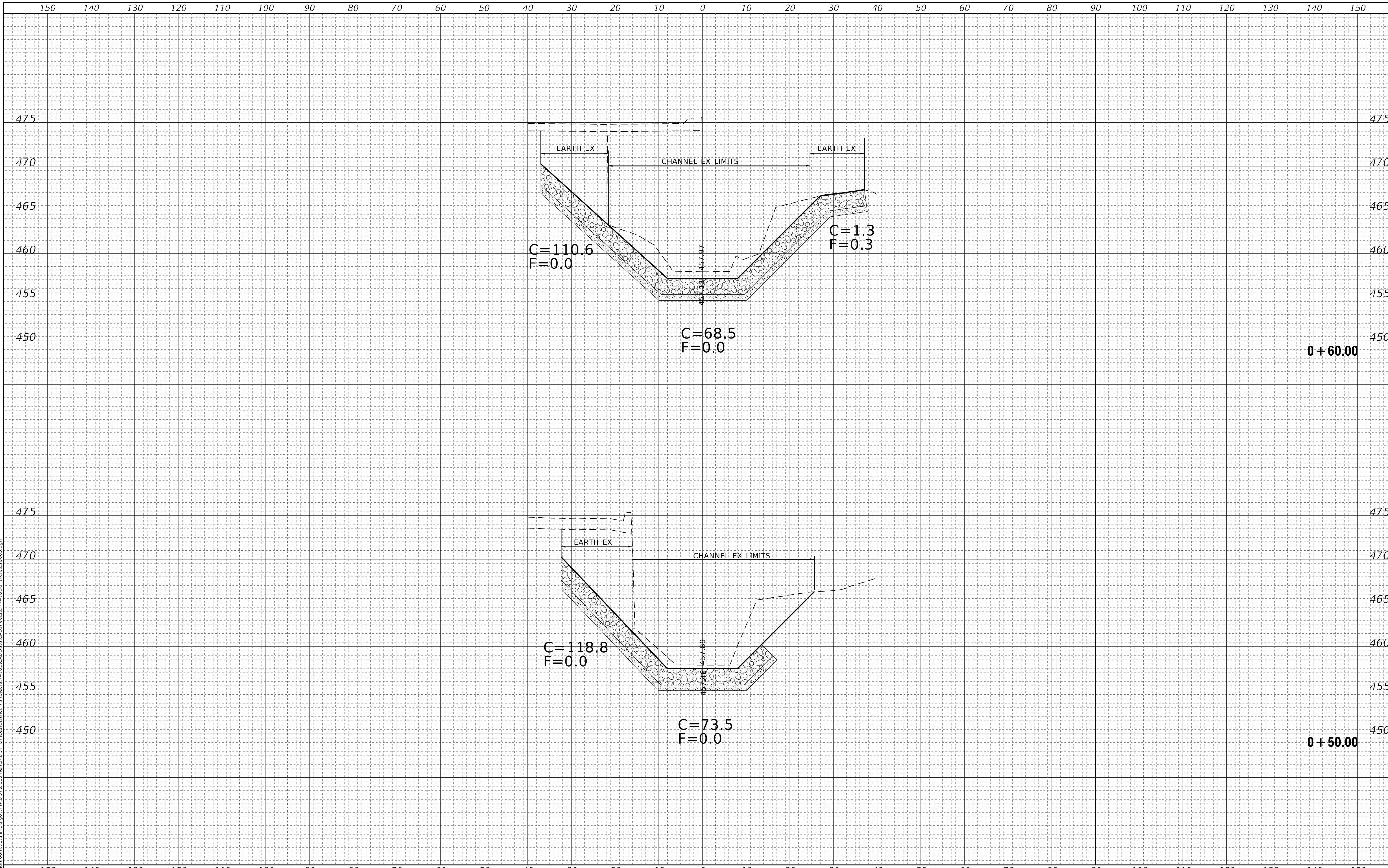
USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS SUGAR CREEK
S.N. 017–0033

SCALE: 10H:5V | SHEET 2 OF 8 SHEETS | STA. 0+30.00 TO STA. 0+40.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	83
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

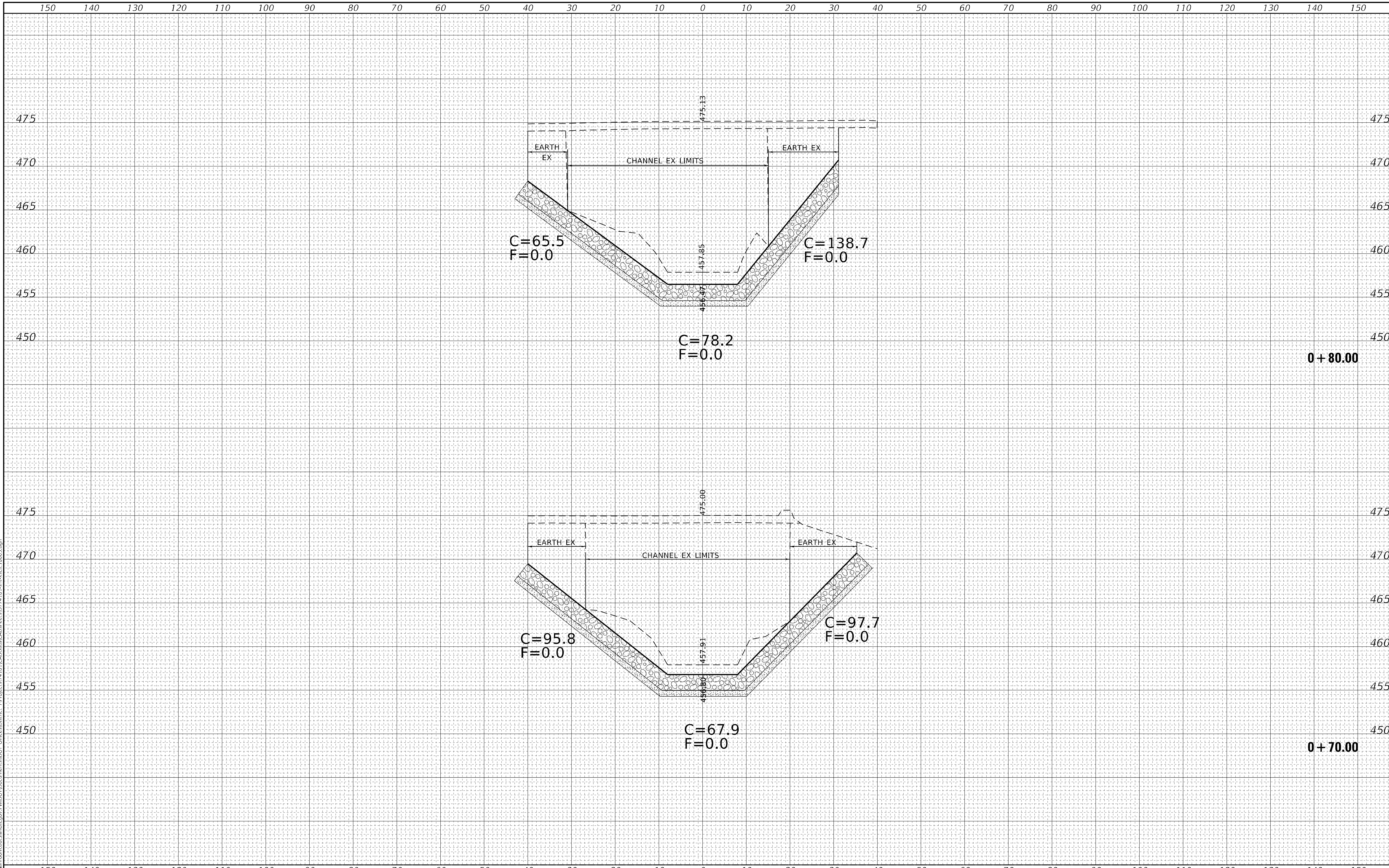
CROSS SECTIONS SUGAR CREEK
S.N. 017-0033

SCALE: 10H:5V | SHEET 3 OF 8 SHEETS | STA. 0+50.00 TO STA. 0+60.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	84

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT



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

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

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov

USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

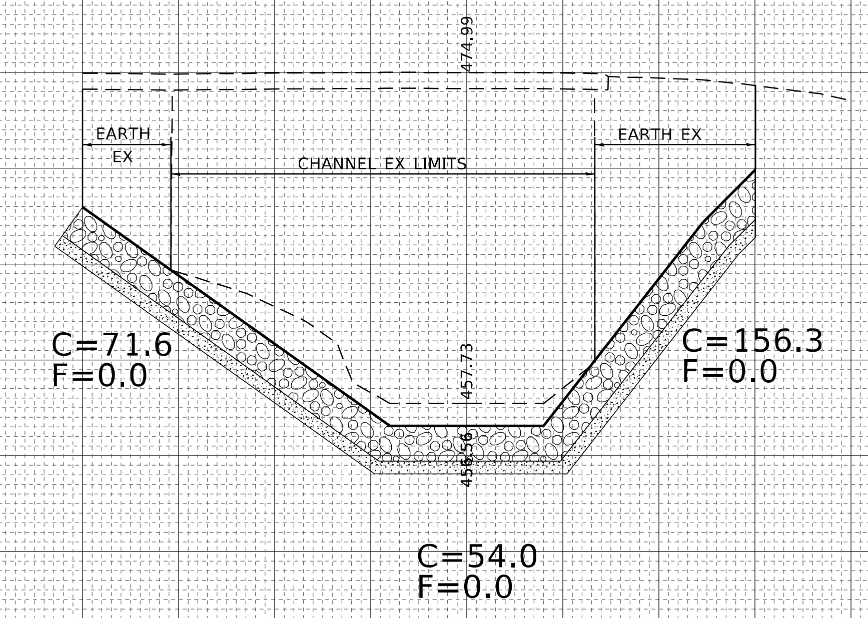
CROSS SECTIONS SUGAR CREEK
S.N. 017–0033

SCALE: 10H:5V | SHEET 4 OF 8 SHEETS | STA. 0+70.00 TO STA. 0+80.00

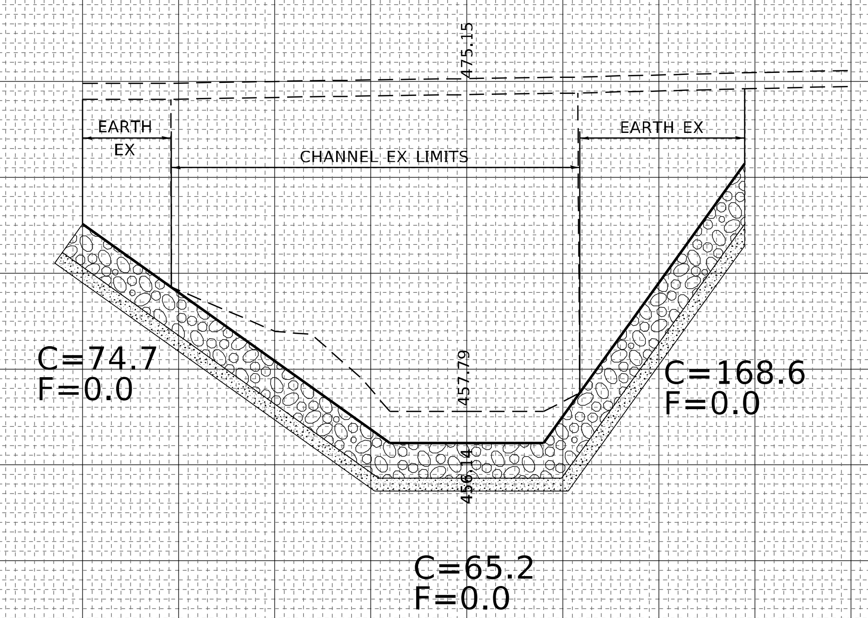
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	85

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT



1+00.00



0+90.00

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

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

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADsheets\D774181-sht-xscIL10003.dgn

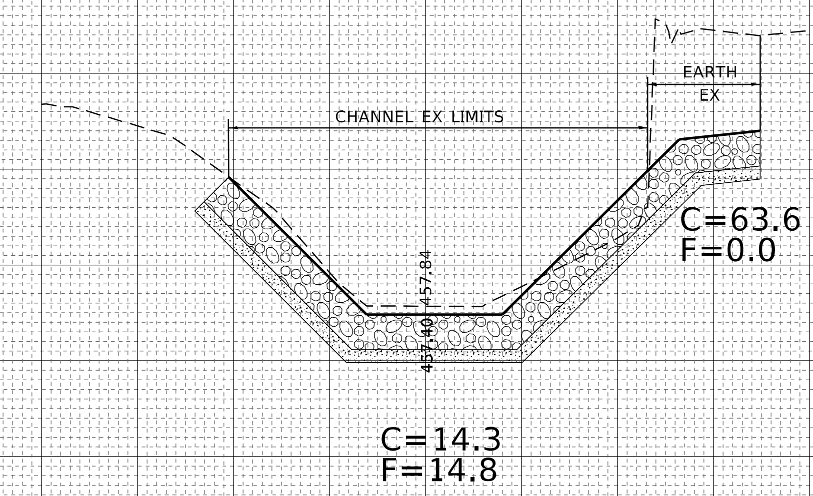
USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

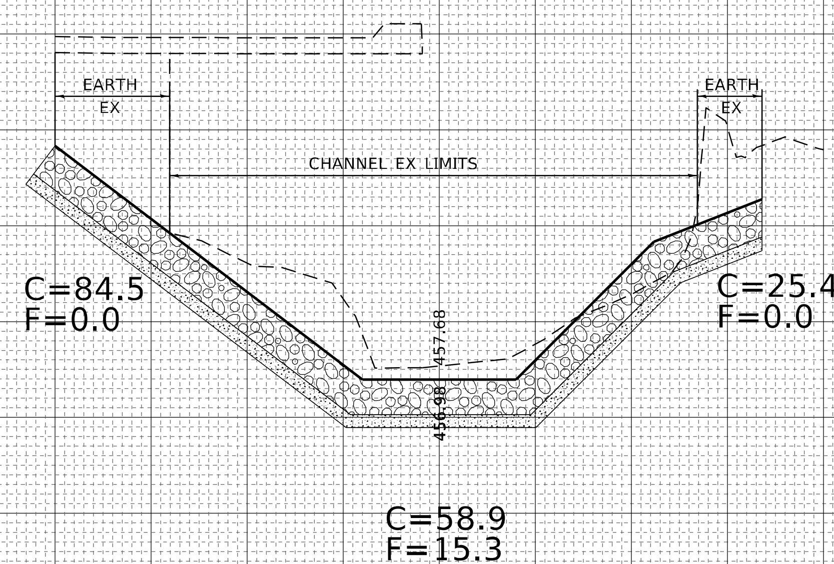
CROSS SECTIONS SUGAR CREEK
S.N. 017-0033

SCALE: 10H:5V | SHEET 5 OF 8 SHEETS | STA. 0+90.00 TO STA. 1+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	86
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



1+20.00



1+10.00

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS SUGAR CREEK
S.N. 017–0033

SCALE: 10H:5V | SHEET 6 OF 8 SHEETS | STA. 1+10.00 TO STA. 1+20.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	87

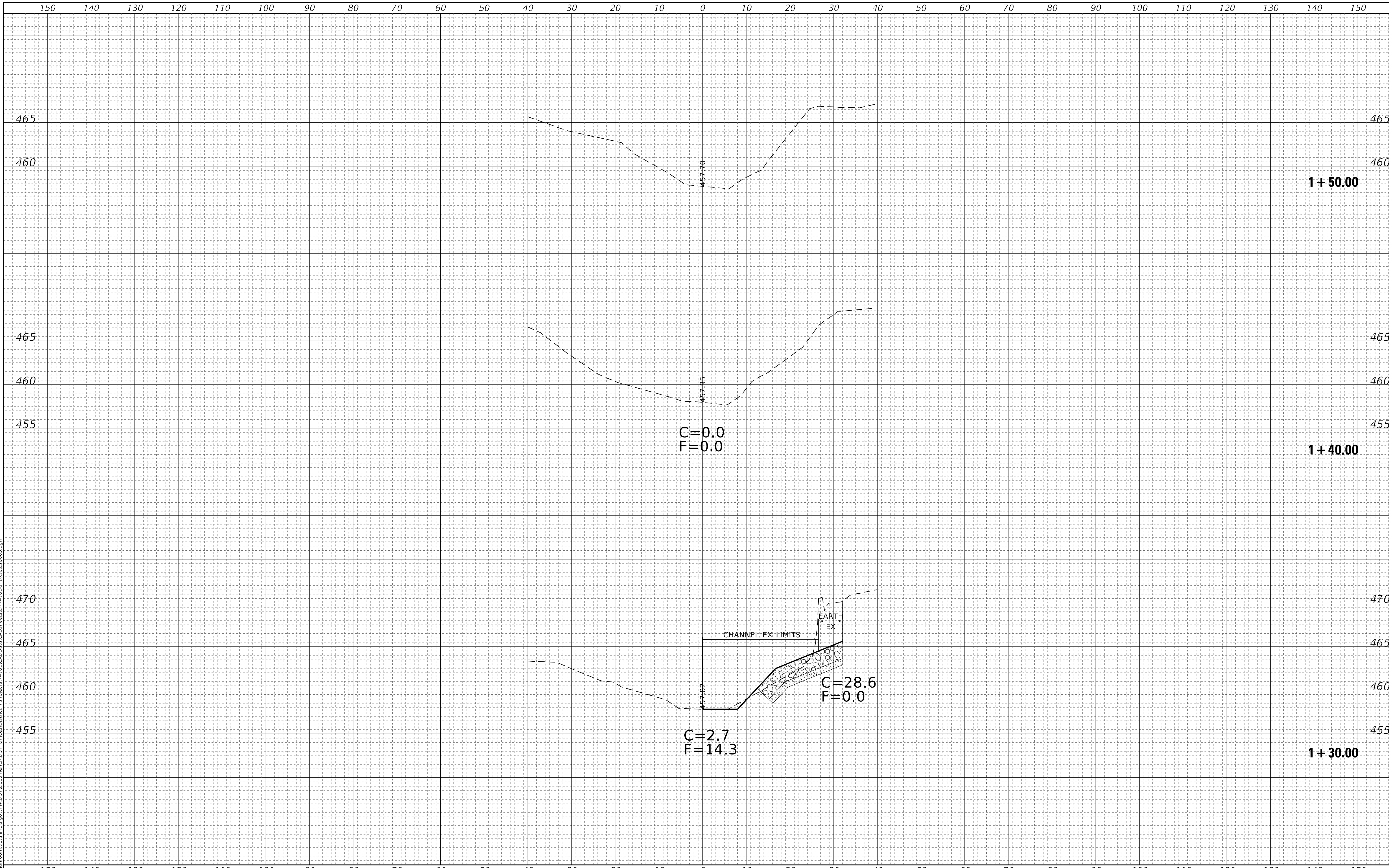
CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT

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

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

MODEL: Default



USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS SUGAR CREEK

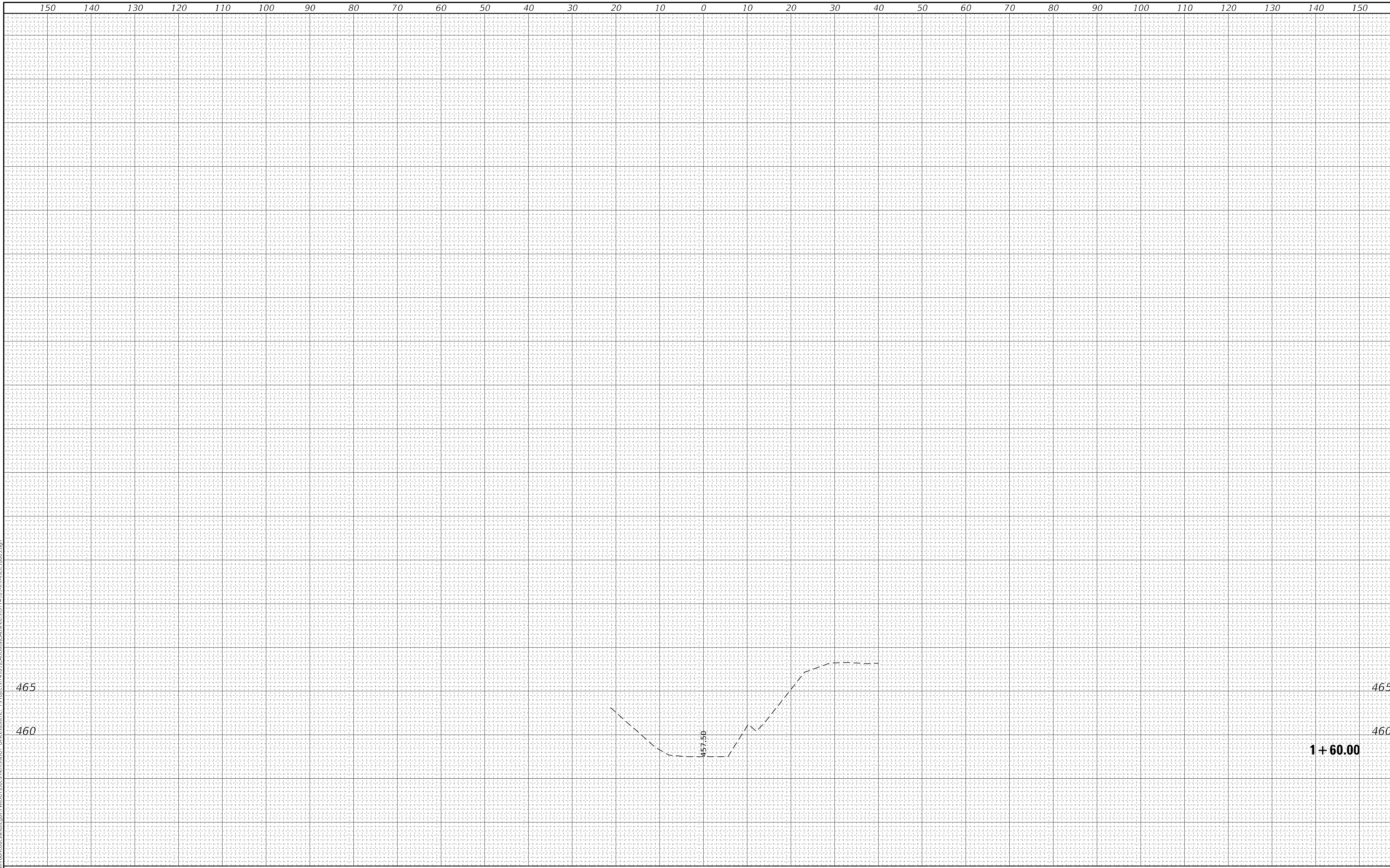
S.N. 017–0033

SCALE: 10H:5V | SHEET 7 OF 8 SHEETS | STA. 1+30.00 TO STA. 1+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	88

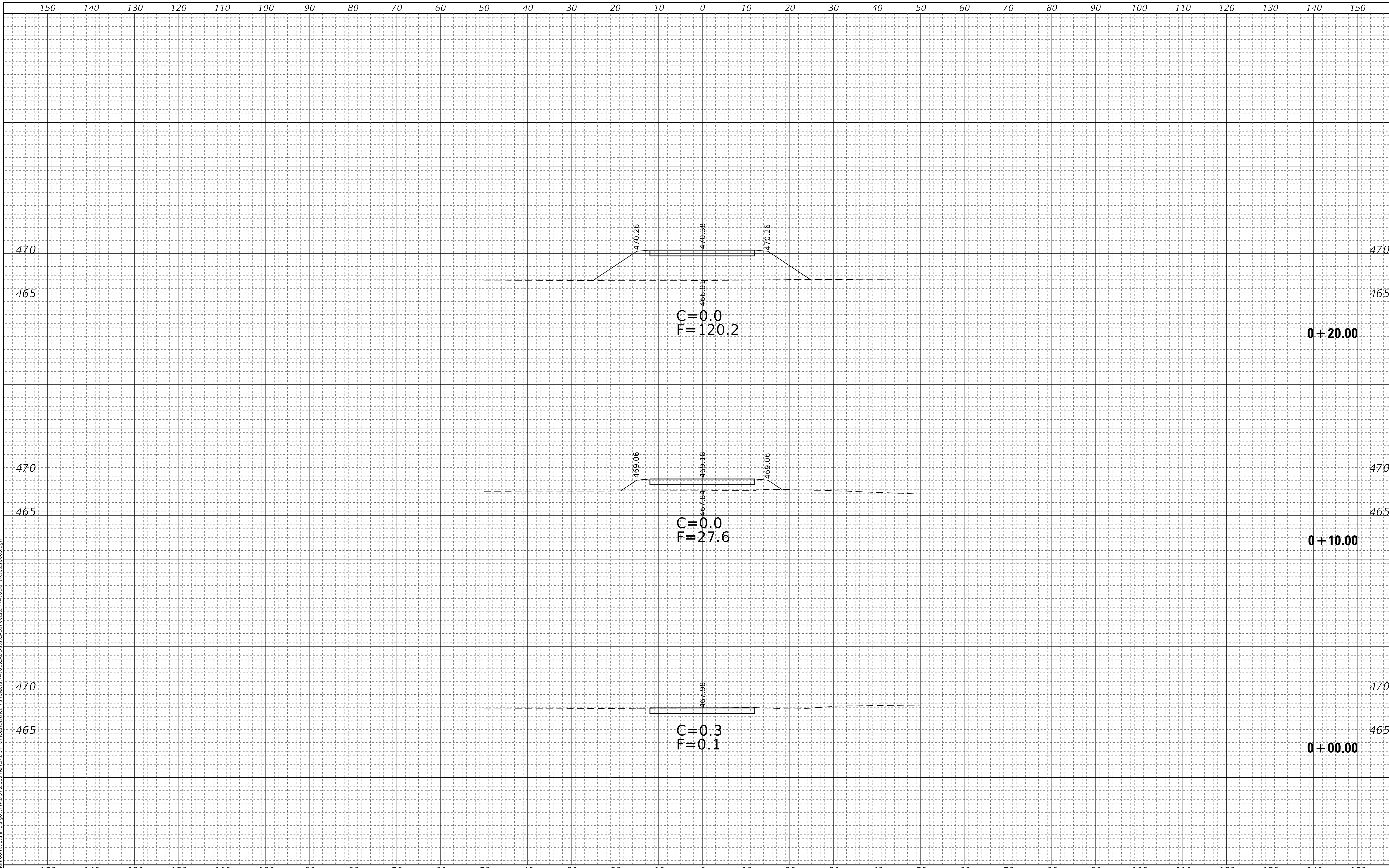
CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT



USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SUGAR CREEK S.N. 017–0033	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			332	(21-Y, 21-X)B-1	CRAWFORD	116	89
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 74181				
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 10H:5V SHEET 8 OF 8 SHEETS STA. 1+60.00 TO STA. 1+60.00	ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\\idot.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsect-10003.dgn



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

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

MODEL: Default

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

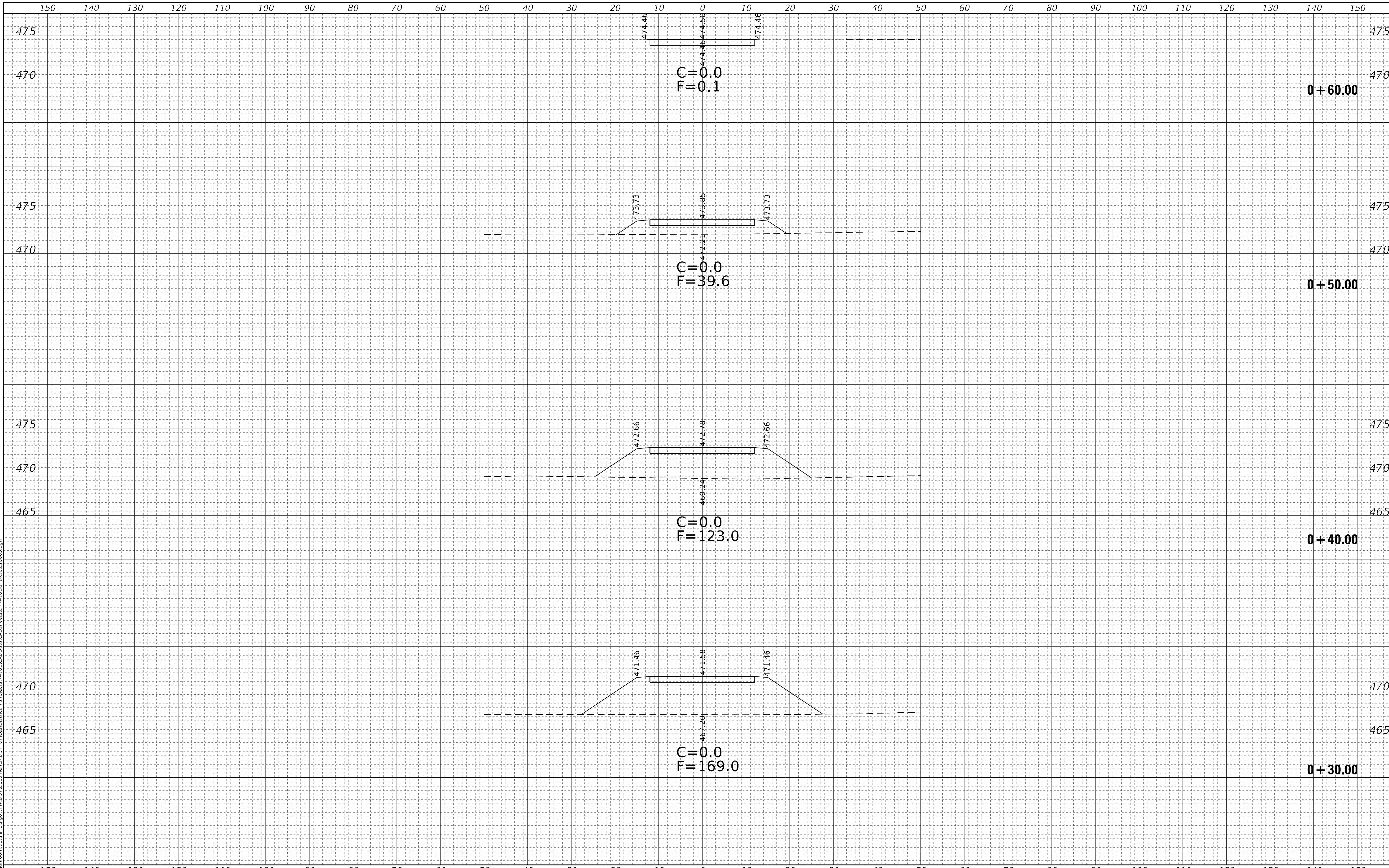
CROSS SECTIONS
F.E. STA. 111+90.00 RT.

SCALE: 10H:5V | SHEET 1 OF 3 SHEETS | STA. 0+00.00 TO STA. 0+20.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	90

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT

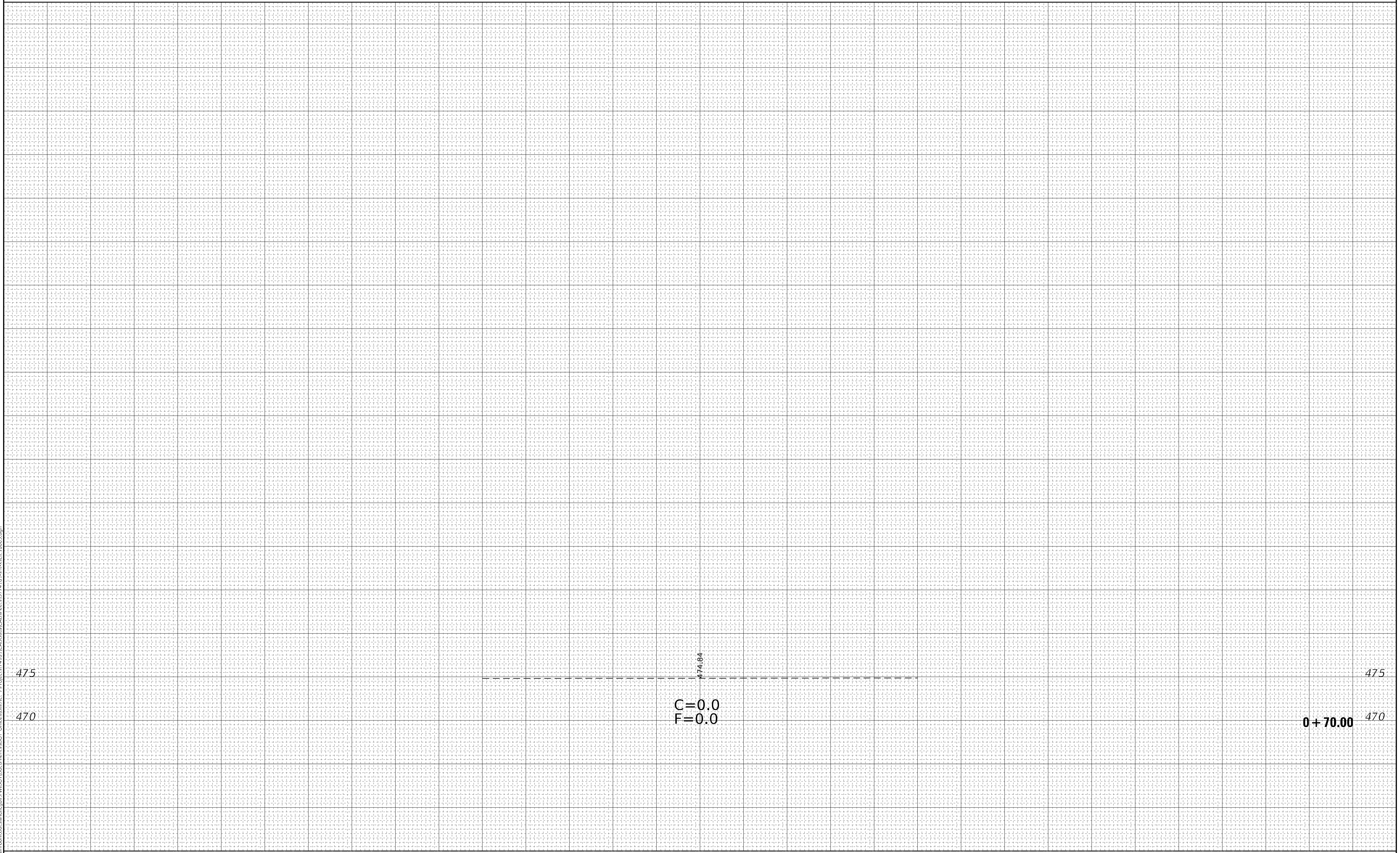


MODEL: Default
FILE NAME: pw:\\dpwnsem.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsctl-10003.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS	CROSS SECTIONS
	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	F.E. STA. 111 + 90.00 RT.
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 10H:5V SHEET 2 OF 3 SHEETS STA. 0+30.00 TO STA. 0+60.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	91
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

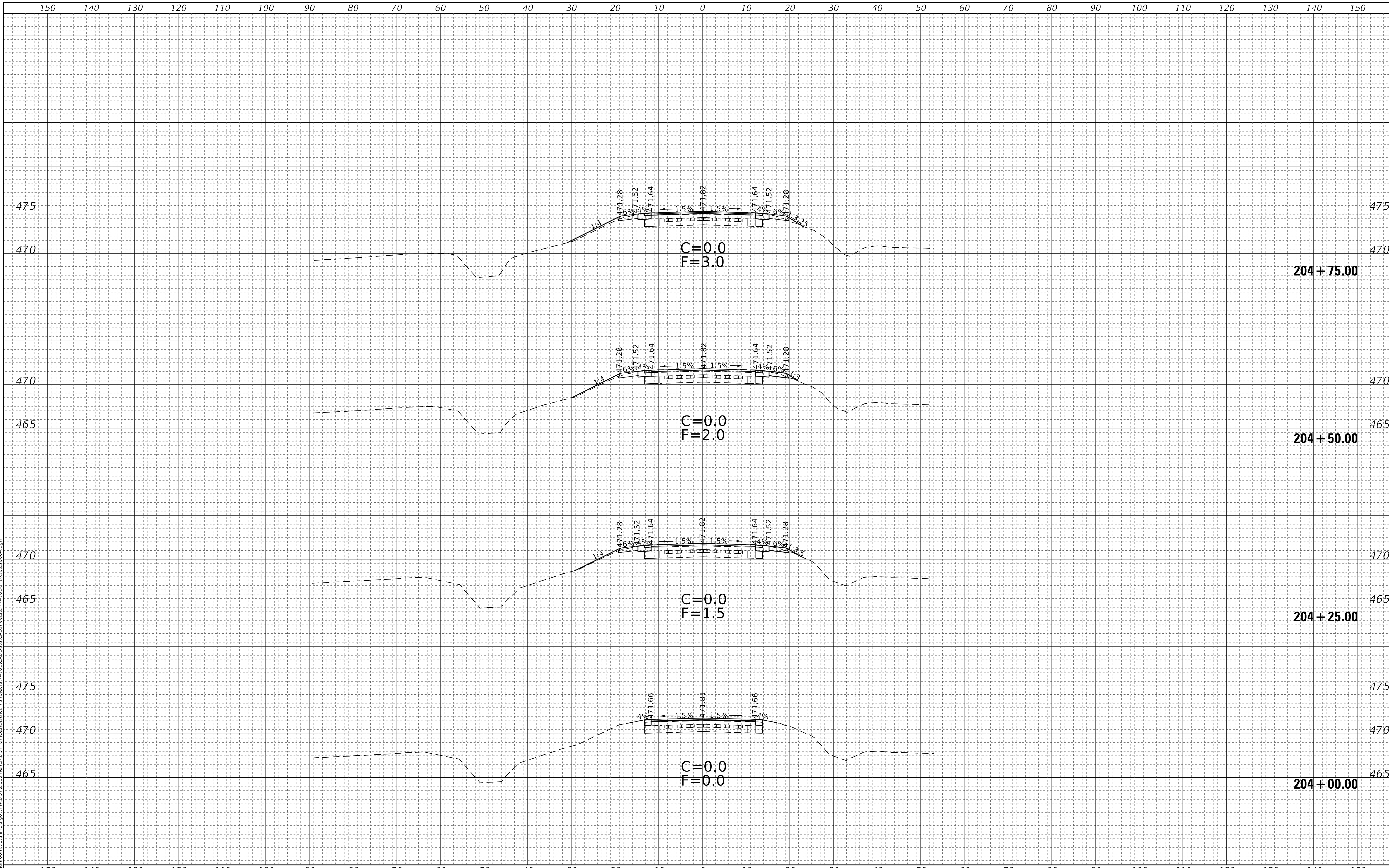
MODEL: Default
FILE NAME: pw:\\idotdmsom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsectl-10003.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS
F.E. STA. 111 + 90.00 RT.

SCALE: 10H:5V | SHEET 2 OF 3 SHEETS | STA. 0+70.00 TO STA. 0+70.00

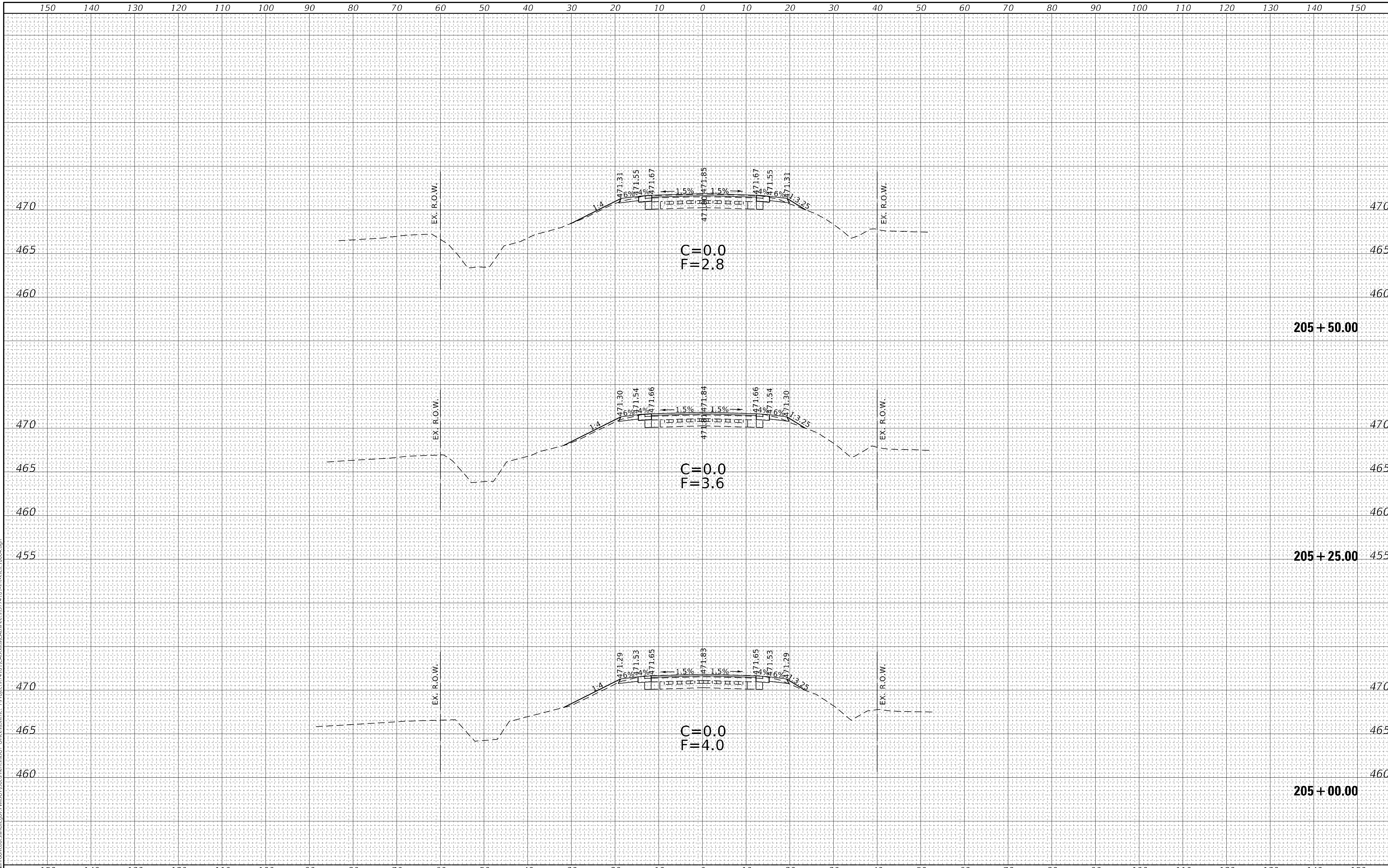
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	92
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



USER NAME = steffenmk	DESIGNED -	REVISED -	**STATE OF ILLINOIS**	**CROSS SECTIONS IL 1**
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**S.N. 017–0032**
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		SCALE: 10H:5V
PLOT DATE = 6/22/2021	DATE -	REVISED -		SHEET 1 OF 16 SHEETS STA. 204+00.00 TO STA. 204+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	93
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

MODEL: Default



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS IL 1
S.N. 017-0032

SCALE: 10H:5V SHEET 2 OF 16 SHEETS STA. 205+00.00 TO STA. 205+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	94

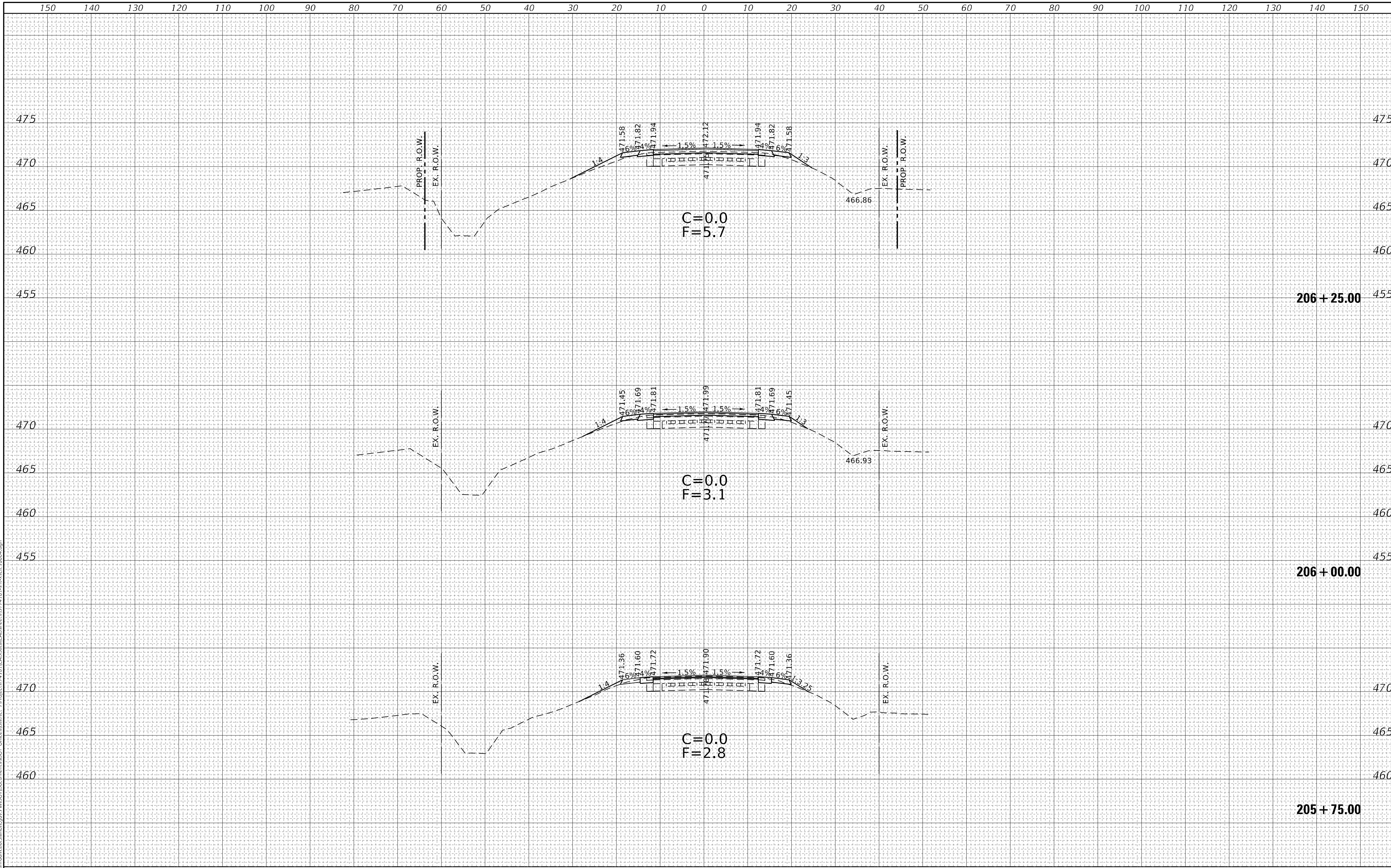
CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT

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

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

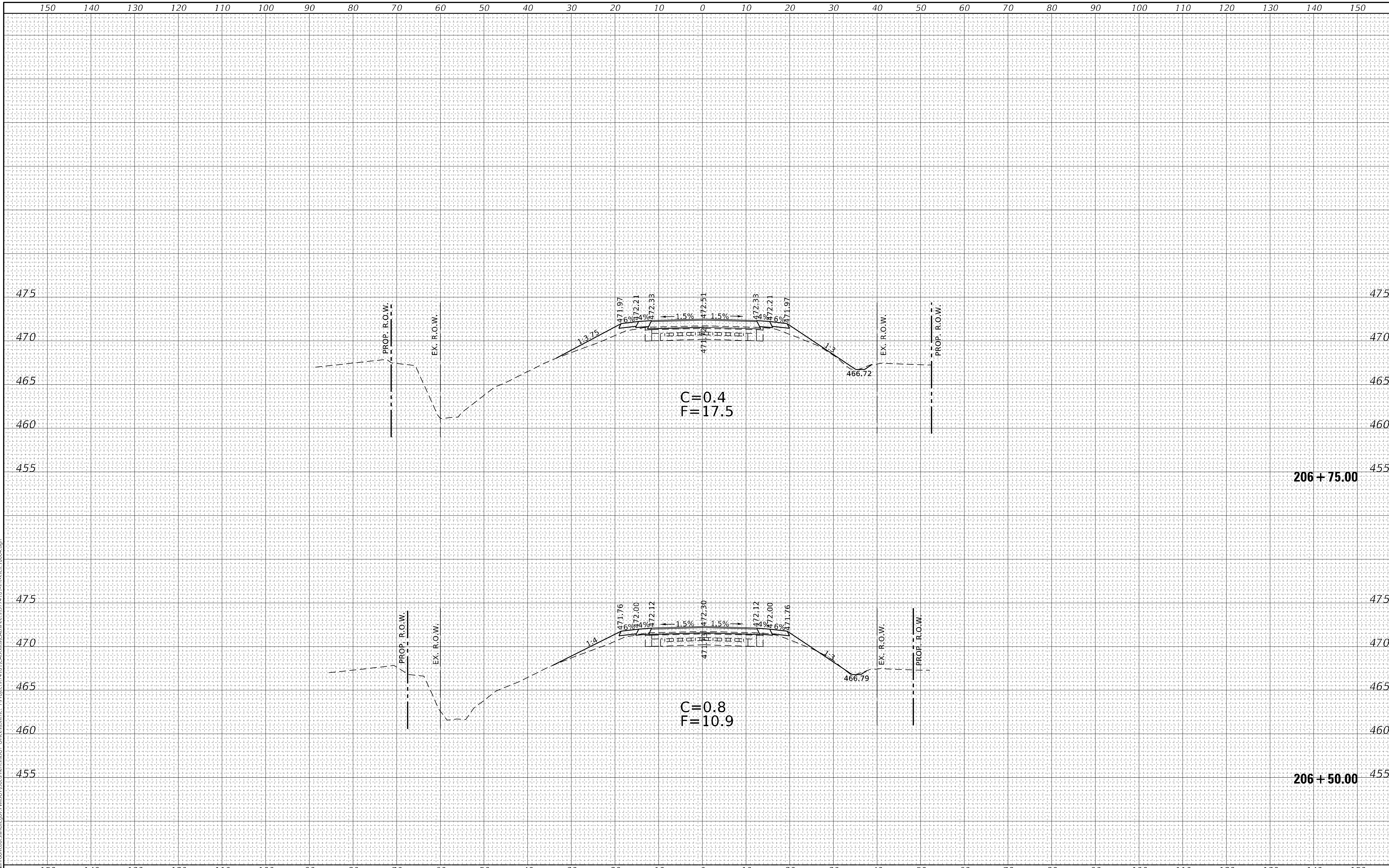
MODEL: Default



USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS	CROSS SECTIONS IL 1
	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	S.N. 017-0032
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 10H:5V SHEET 3 OF 16 SHEETS STA. 205+75.00 TO STA. 206+25.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	95
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\\ildanroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsctl1-10004.dgn



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

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

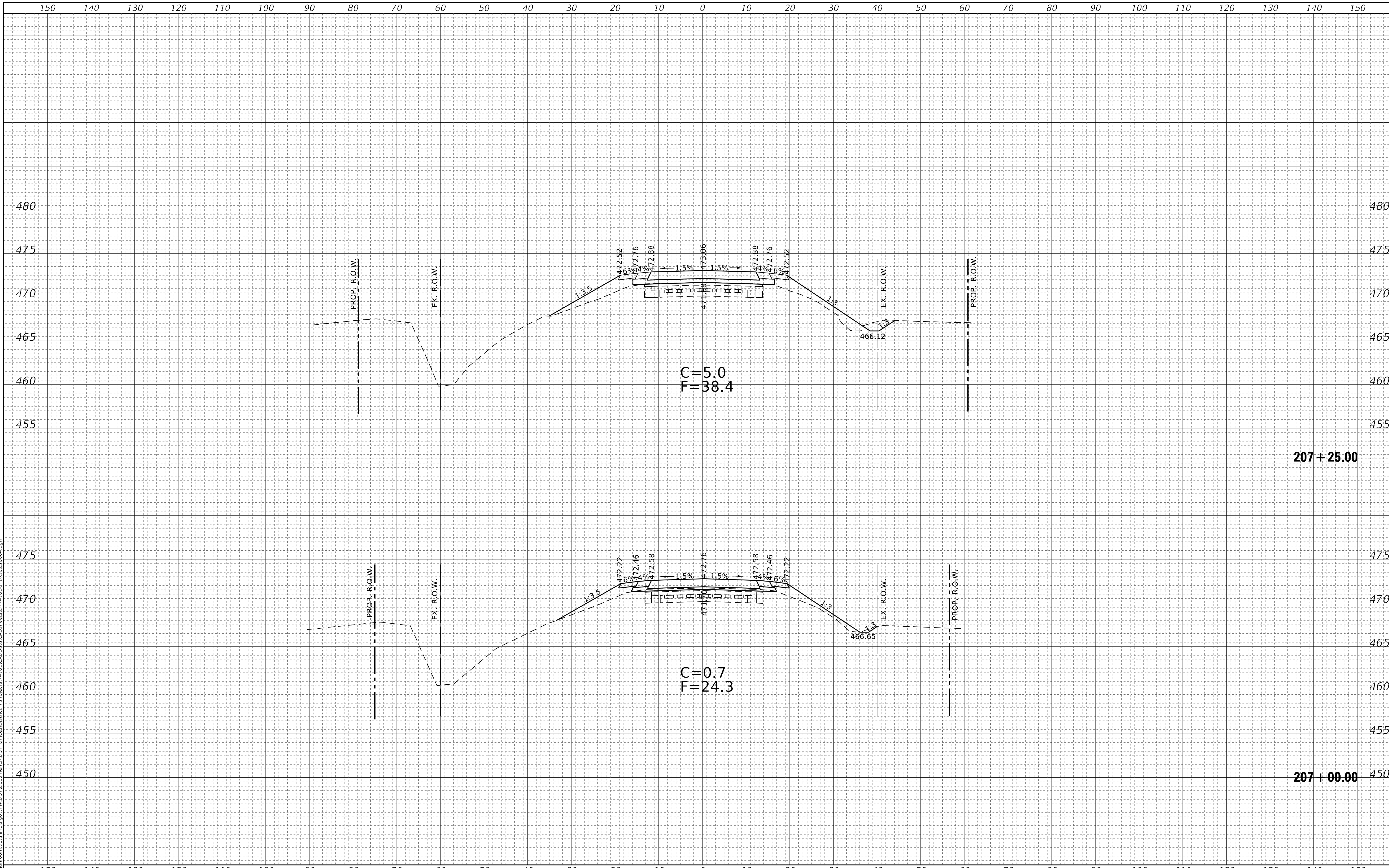
MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsecIL10004.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS IL 1
S.N. 017–0032

SCALE: 10H:5V | SHEET 4 OF 16 SHEETS | STA. 206+50.00 TO STA. 206+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	96
		CONTRACT NO. 74181		
		ILLINOIS	FED. AID PROJECT	



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

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

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsctl-10004.dgn

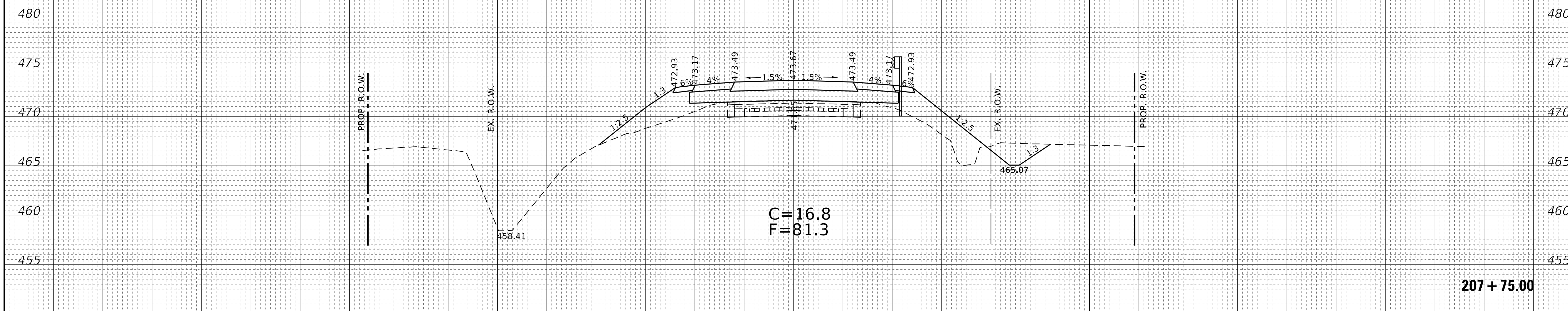
USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

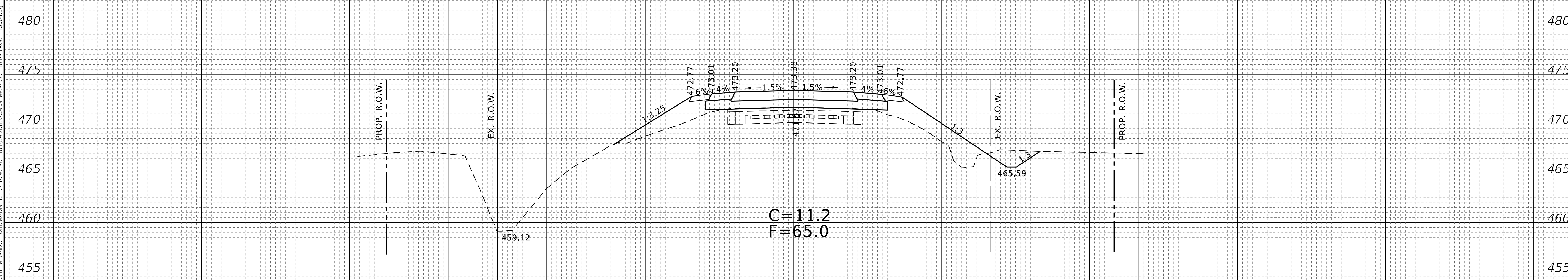
CROSS SECTIONS IL 1
S.N. 017–0032

SCALE: 10H:5V | SHEET 5 OF 16 SHEETS | STA. 207+00.00 TO STA. 207+25.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	97
		CONTRACT NO. 74181		
		ILLINOIS	FED. AID PROJECT	



207+75.00



207+50.00

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

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

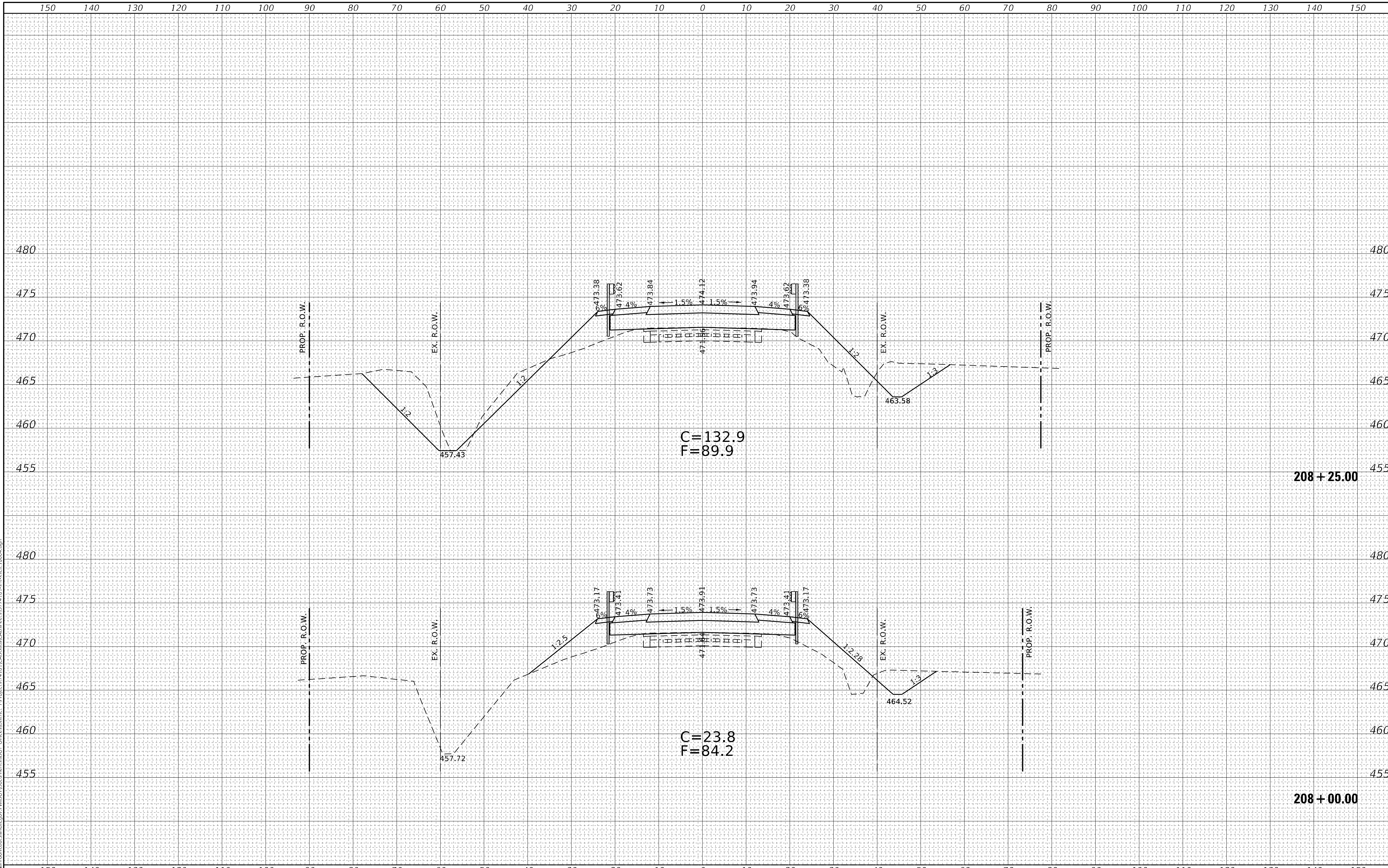
MODEL: Default
FILE NAME: pw:\\idot.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsil1-10004.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS IL 1
S.N. 017–0032

SCALE: 10H:5V | SHEET 6 OF 16 SHEETS | STA. 207+50.00 TO STA. 207+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	98
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



FINAL SURVEY

ORIGINAL SURVEY

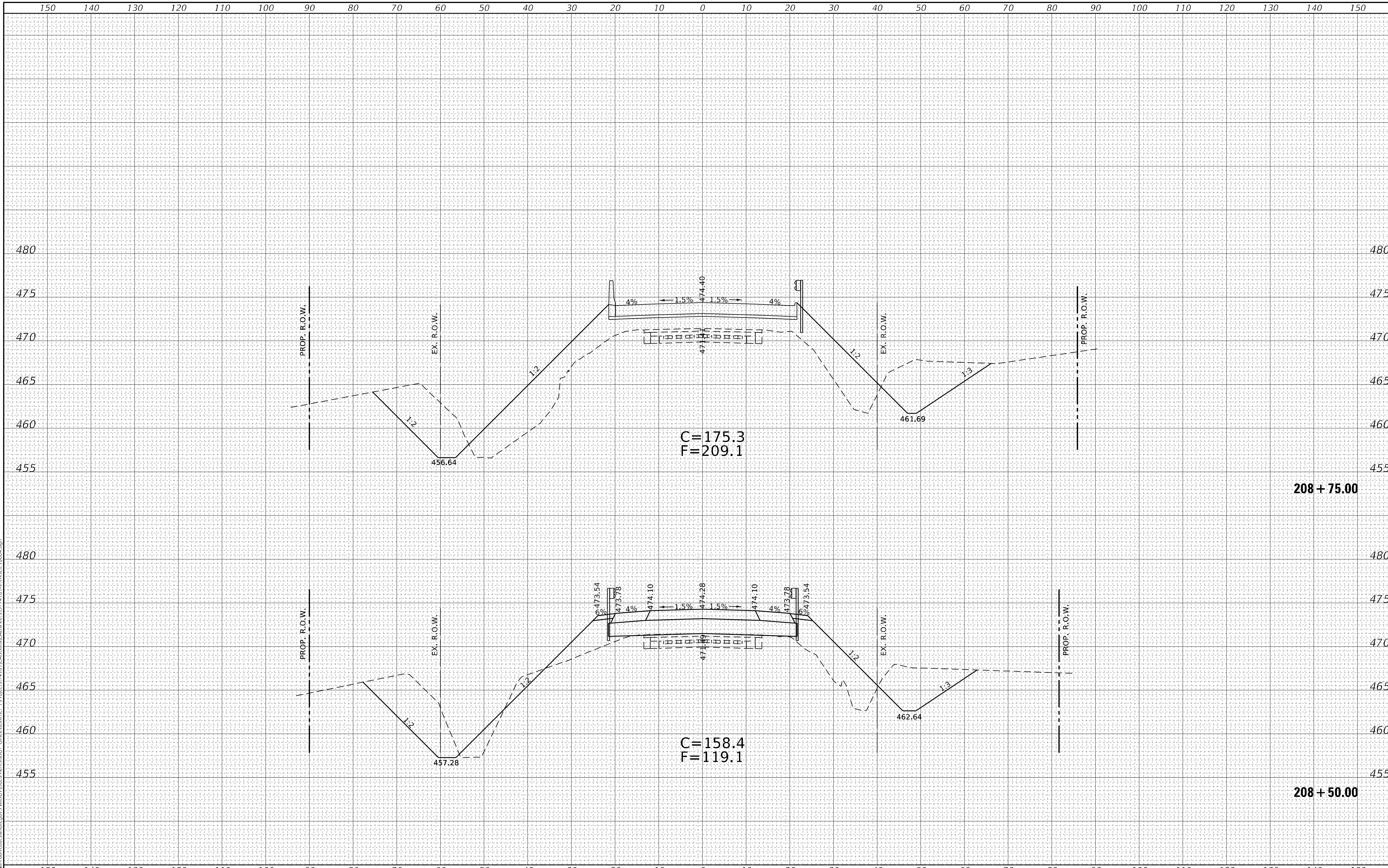
USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS IL 1
S.N. 017-0032

SCALE: 10H:5V | SHEET 7 OF 16 SHEETS | STA. 208+00.00 TO STA. 208+25.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	99
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

MODEL: Default



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

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

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADsheets\D774181-sht-xscIL10004.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

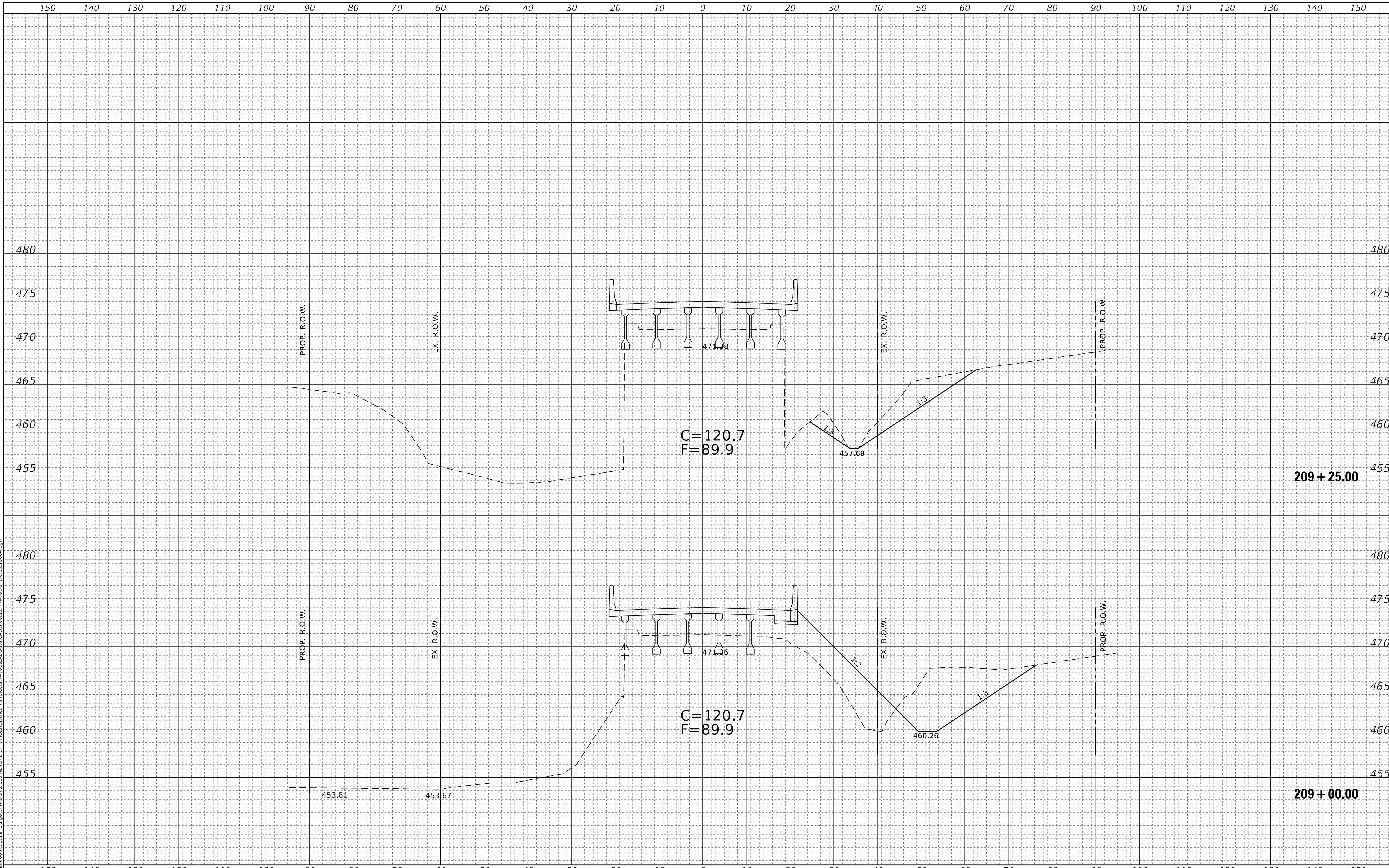
CROSS SECTIONS IL 1
S.N. 017-0032

SCALE: 10H:5V | SHEET 8 OF 16 SHEETS | STA. 208+50.00 TO STA. 208+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	100

CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT



USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/22/2021	DATE -	REVISED -

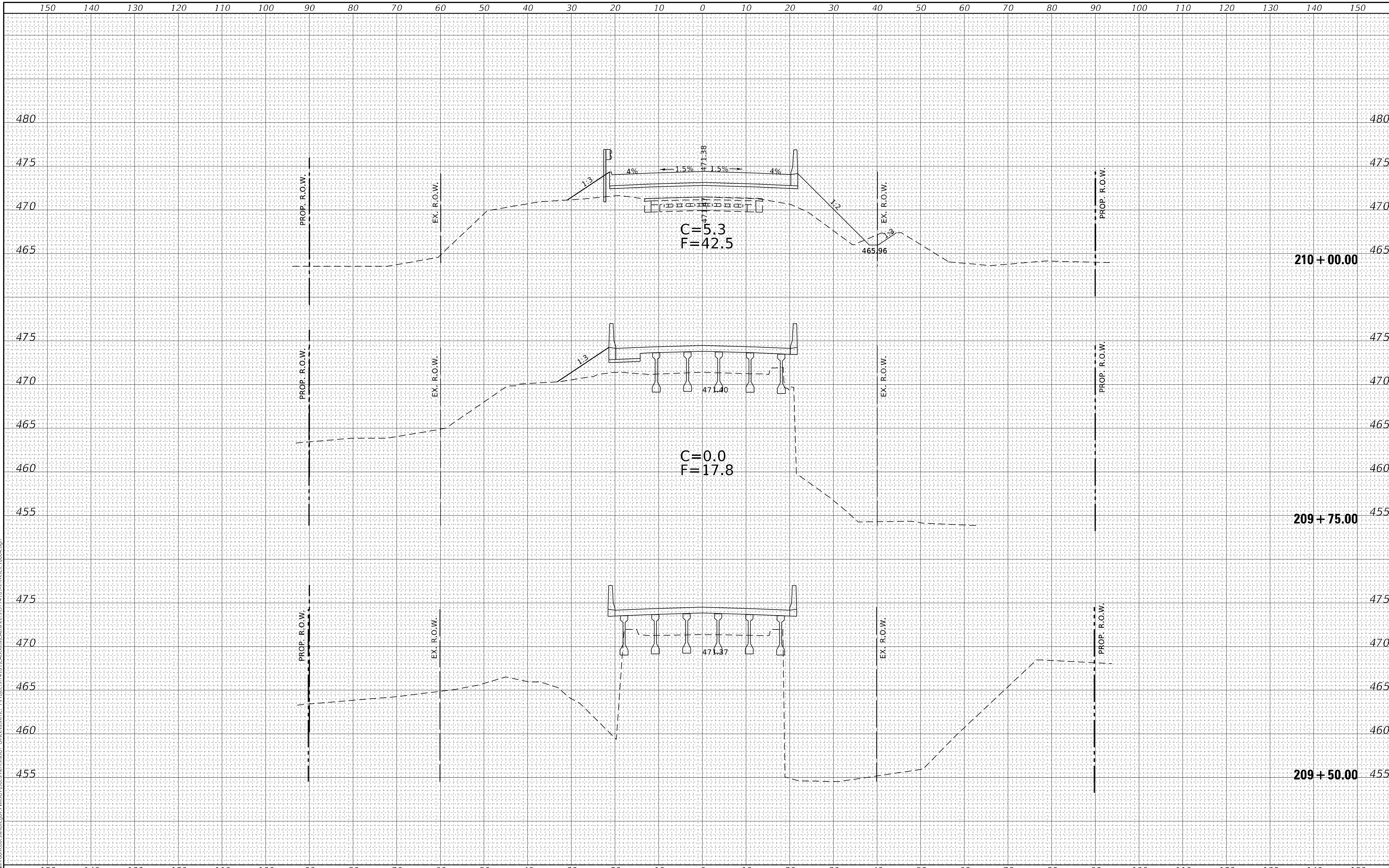
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET 9 OF 16 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	101

CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS IL 1
S.N. 017-0032

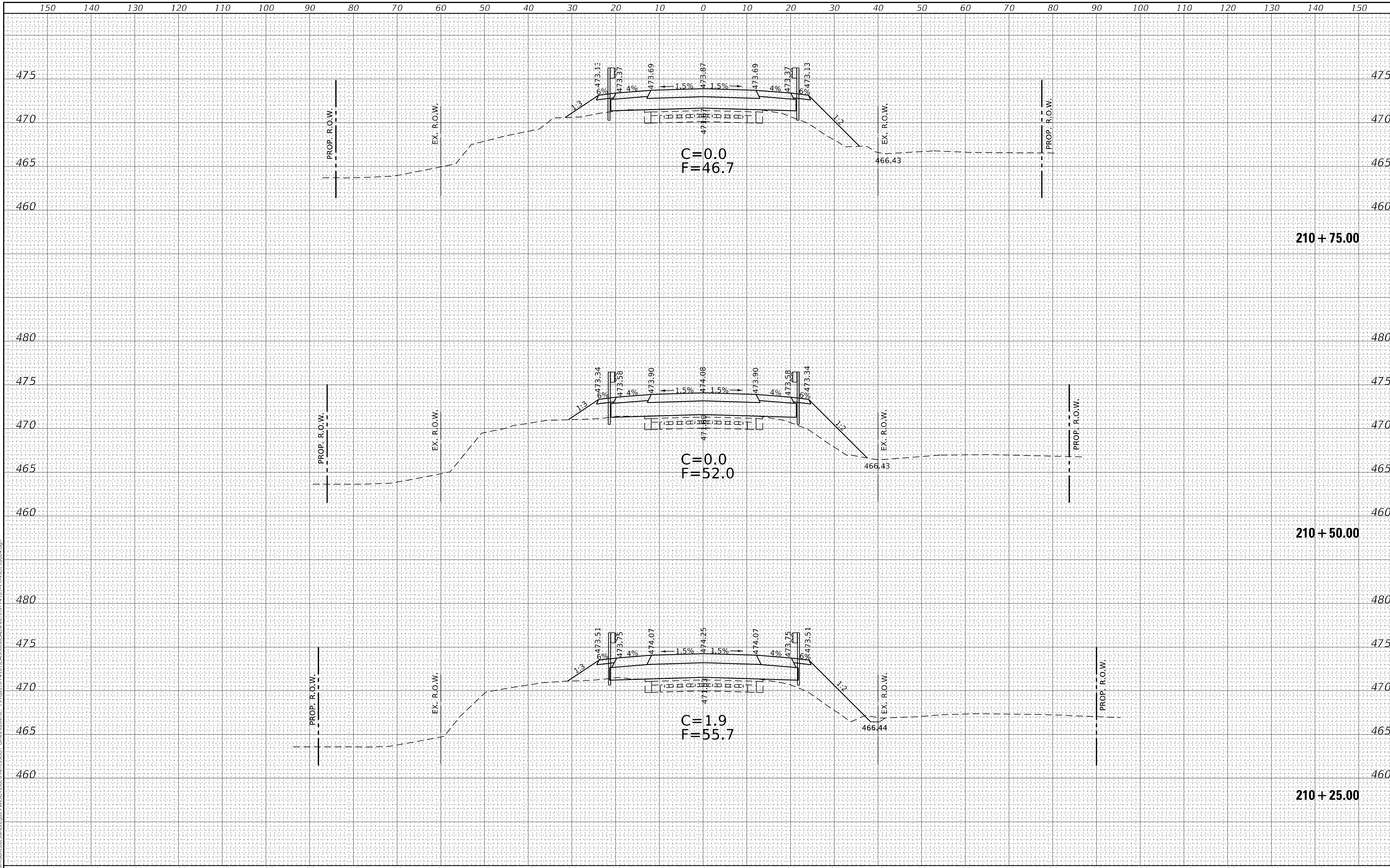
SCALE: 10H:5V | SHEET 10 OF 16 SHEETS | STA. 209+50.00 TO STA. 210+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	102

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT

MODEL: Default
FILE NAME: pw:\\idot.bentley.com:idot-pw-02\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsecIl-10004.dgn



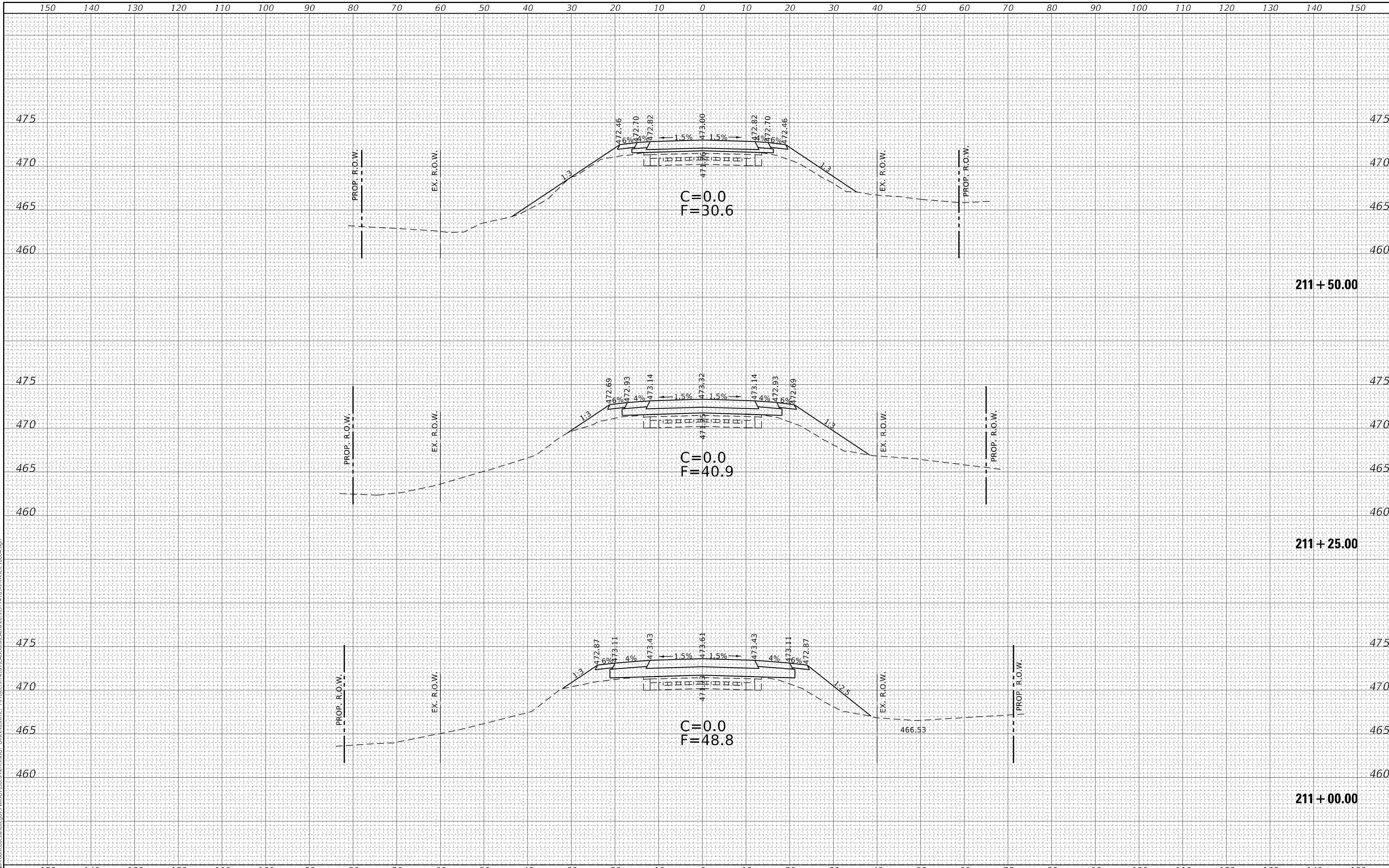
FINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

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

MODEL: Default
FILE NAME: pw:\\idaproom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsectil-10004.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 1 S.N. 017–0032
	DRAWN -	REVISED -		
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 10H:5V SHEET 11 OF 16 SHEETS STA. 210+25.00 TO STA. 210+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	103
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/22/2021	DATE -	REVISED -

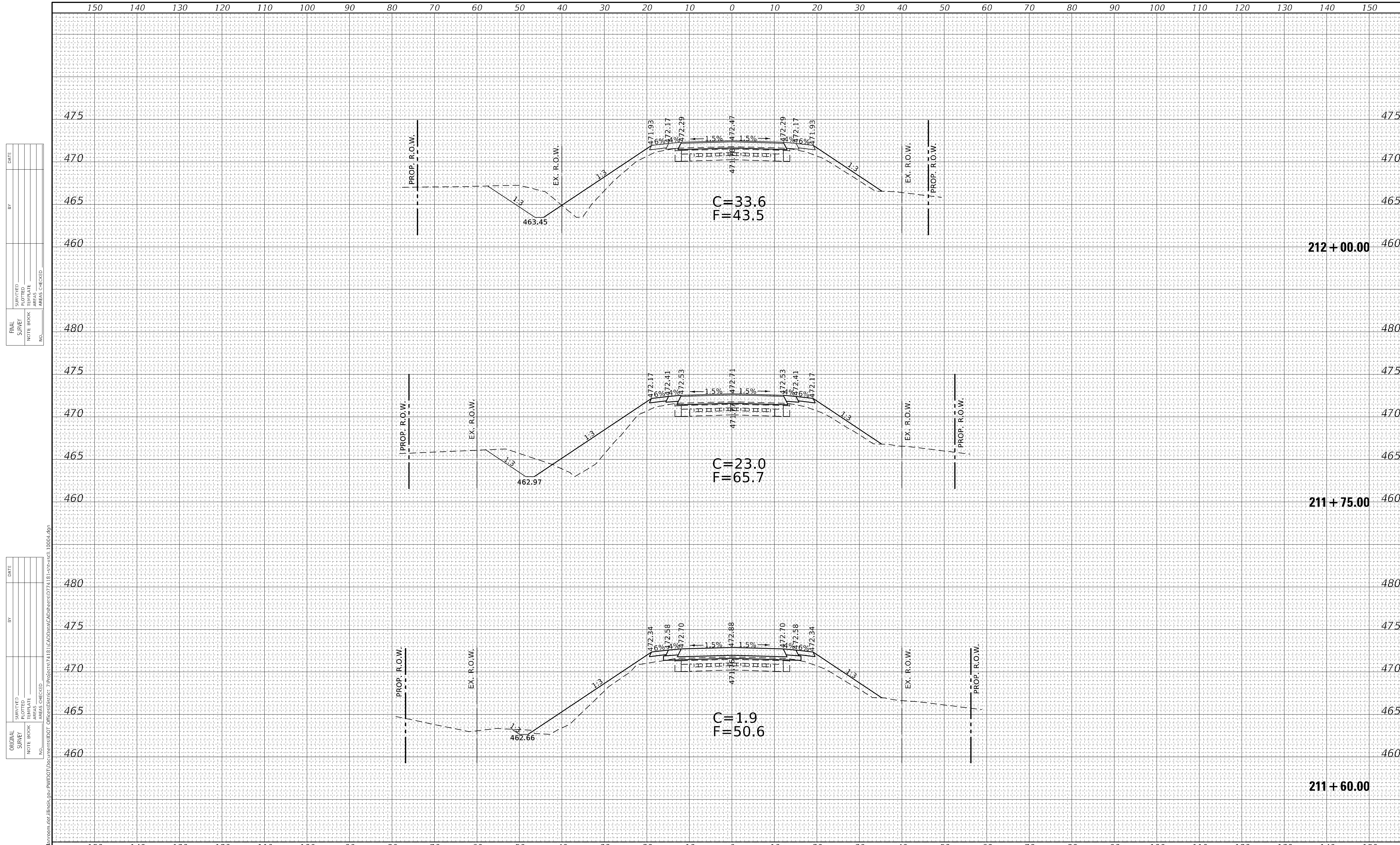
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS IL 1
S.N. 017–0032

SCALE: 10H:5V SHEET 12 OF 16 SHEETS STA. 211+00.00 TO STA. 211+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	104
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

MODEL: Default



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

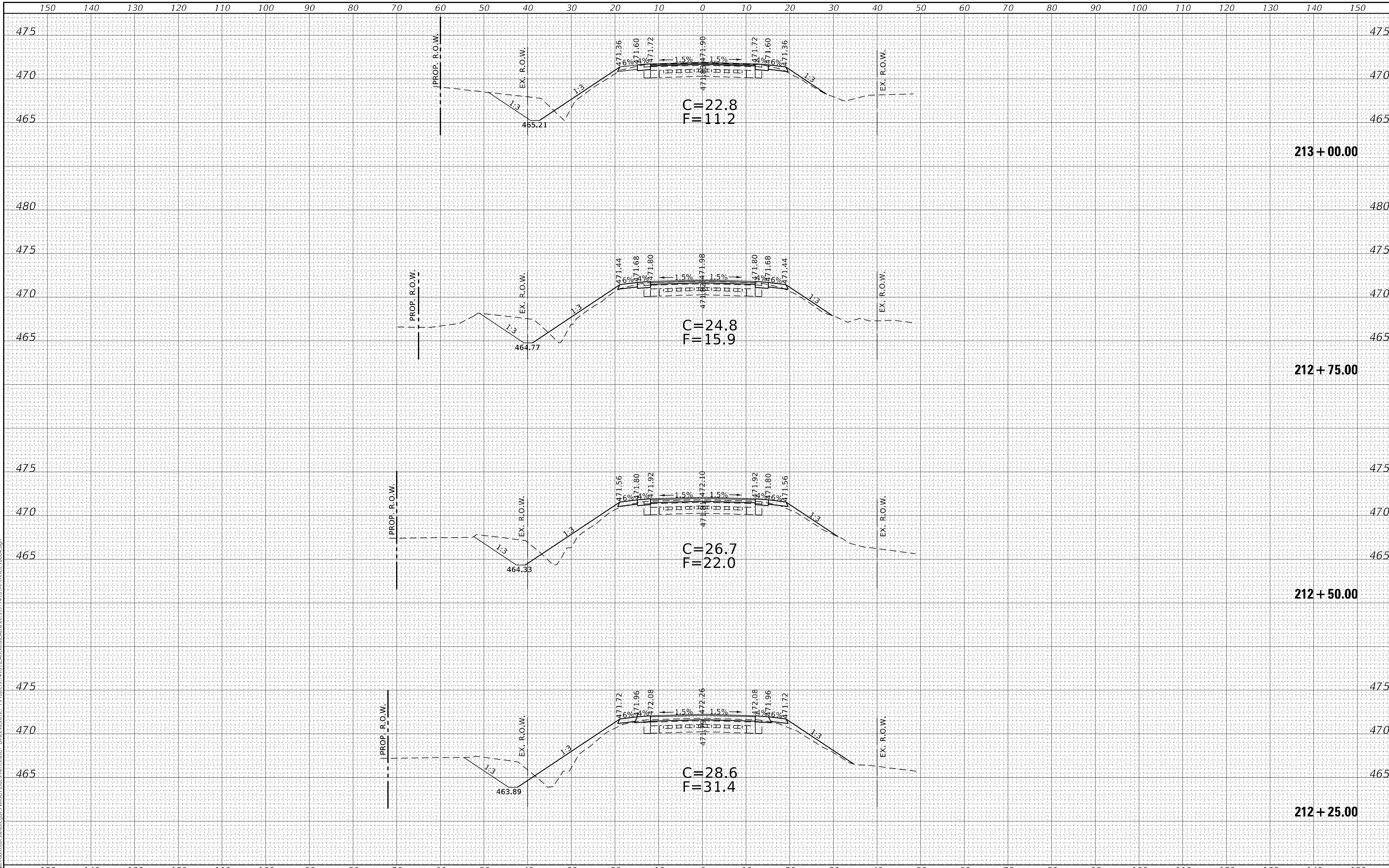
CROSS SECTIONS IL 1
S.N. 017–0032

SCALE: 10H:5V | SHEET 13 OF 16 SHEETS | STA. 211+60.00 TO STA. 212+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	105

CONTRACT NO. 74181

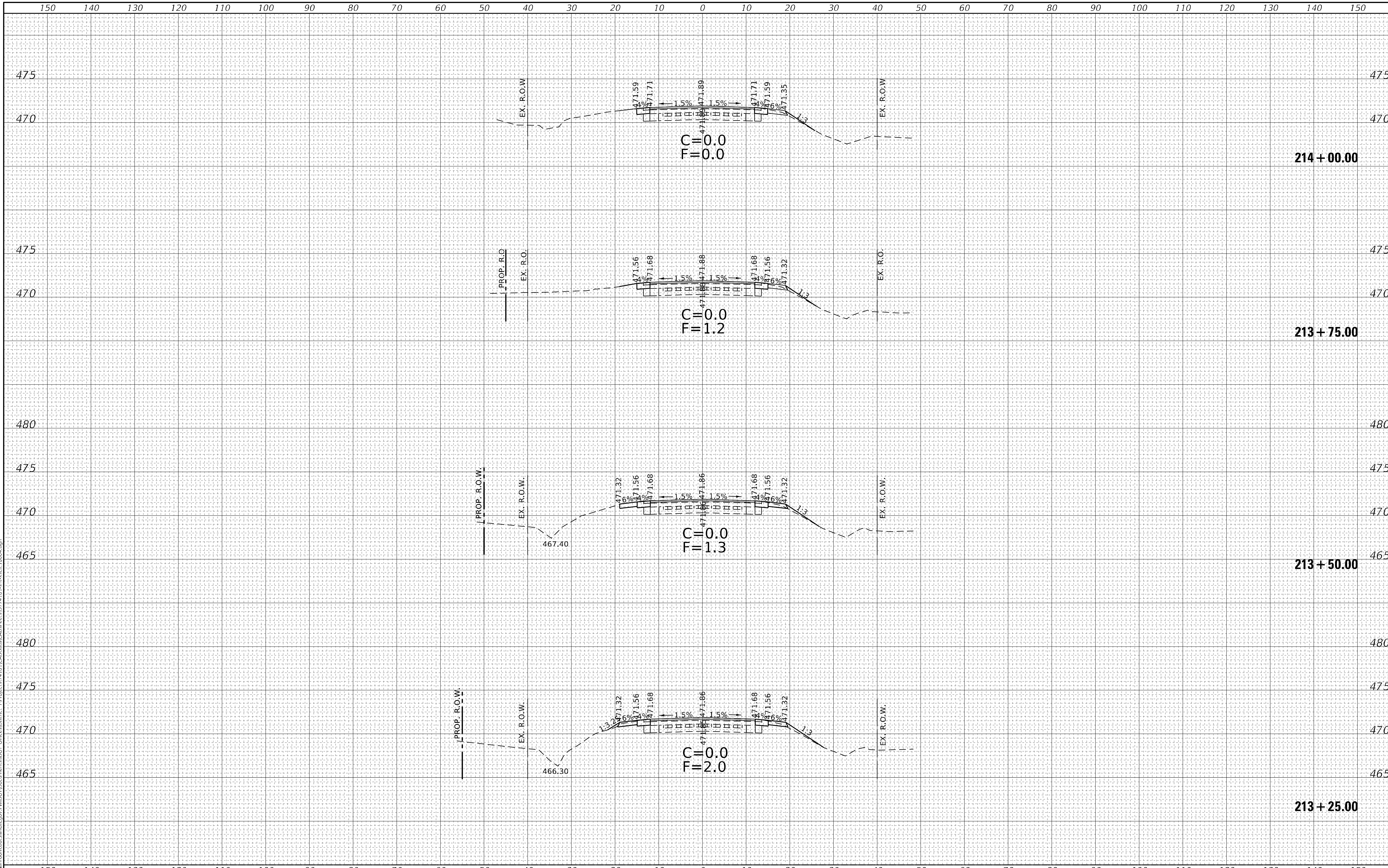
ILLINOIS | FED. AID PROJECT



USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 1 S.N. 017–0032
	DRAWN -	REVISED -		
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 10H:5V SHEET 14 OF 16 SHEETS STA. 212+25.00 TO STA. 213+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	106
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

MODEL: Default



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

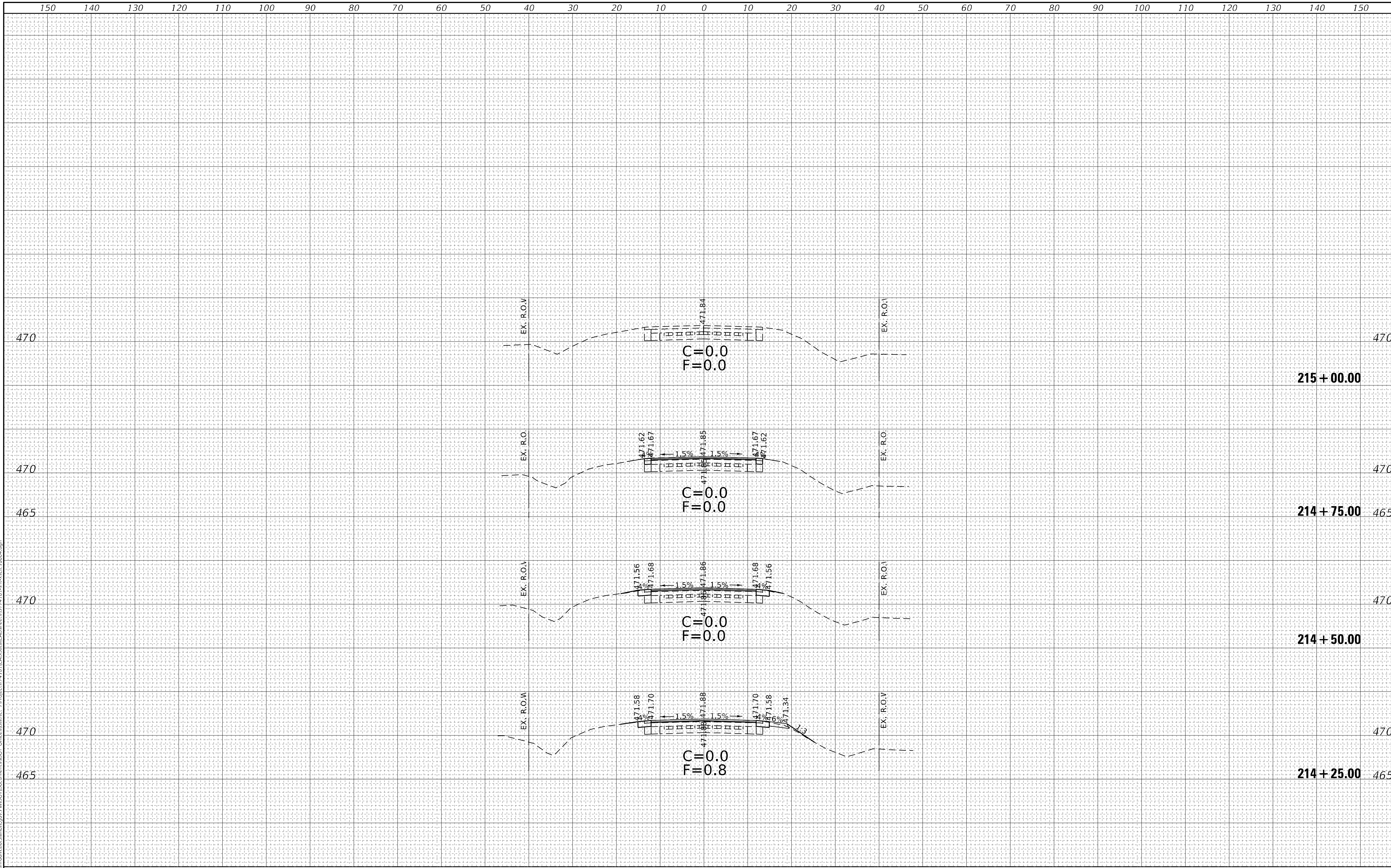
CROSS SECTIONS IL 1
S.N. 017-0032

SCALE: 10H:5V SHEET 15 OF 16 SHEETS STA. 213+25.00 TO STA. 214+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	107
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\\idotroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsctIL1004.dgn

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



USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

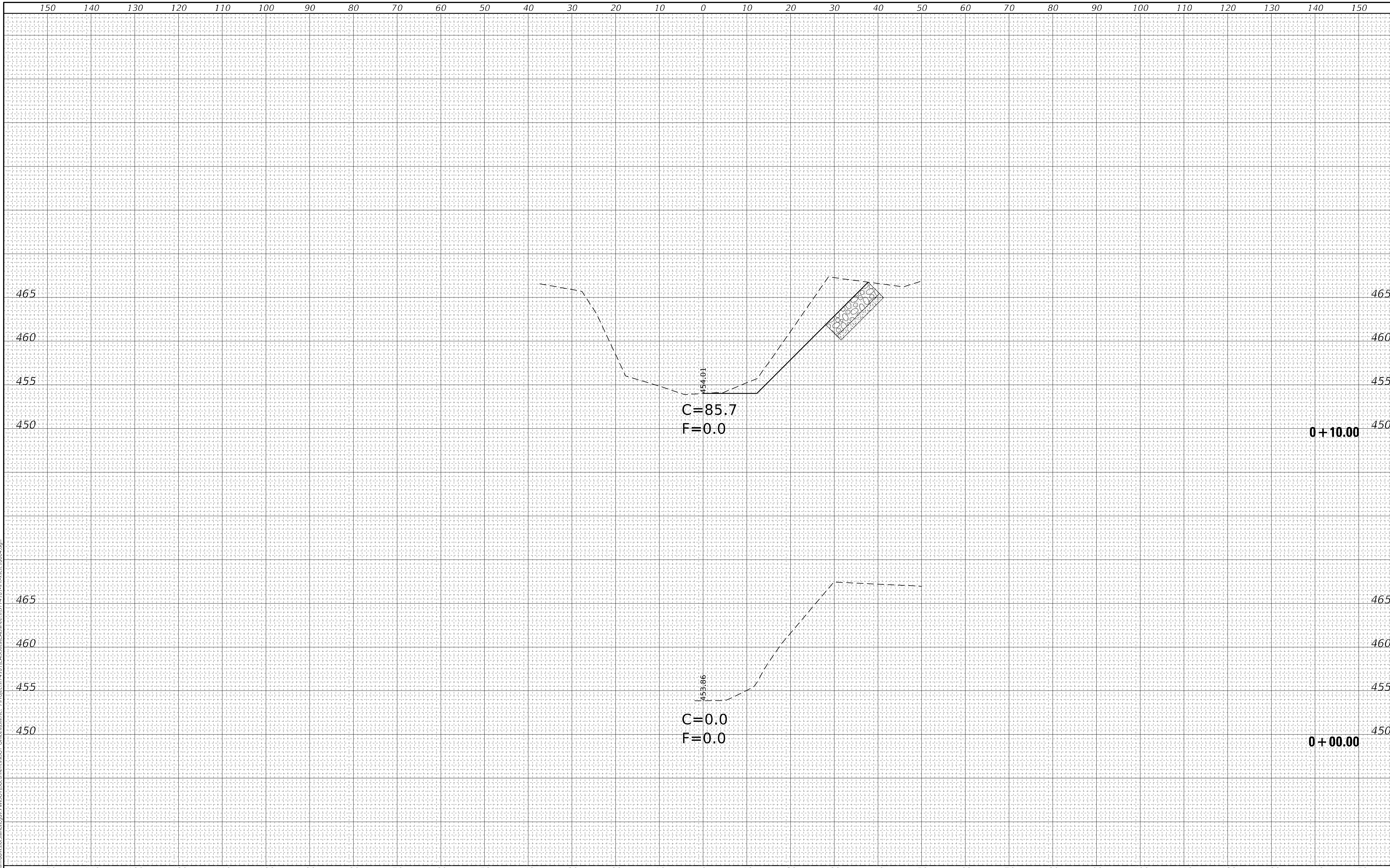
CROSS SECTIONS IL 1
S.N. 017-0032

SCALE: 10H:5V | SHEET 16 OF 16 SHEETS | STA. 214+25.00 TO STA. 215+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	108

CONTRACT NO. 74181
ILLINOIS | FED. AID PROJECT

MODEL: Default
FILE NAME: pw:\\idotdmsom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsctl-10004.dgn



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

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

MODEL: Default

USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

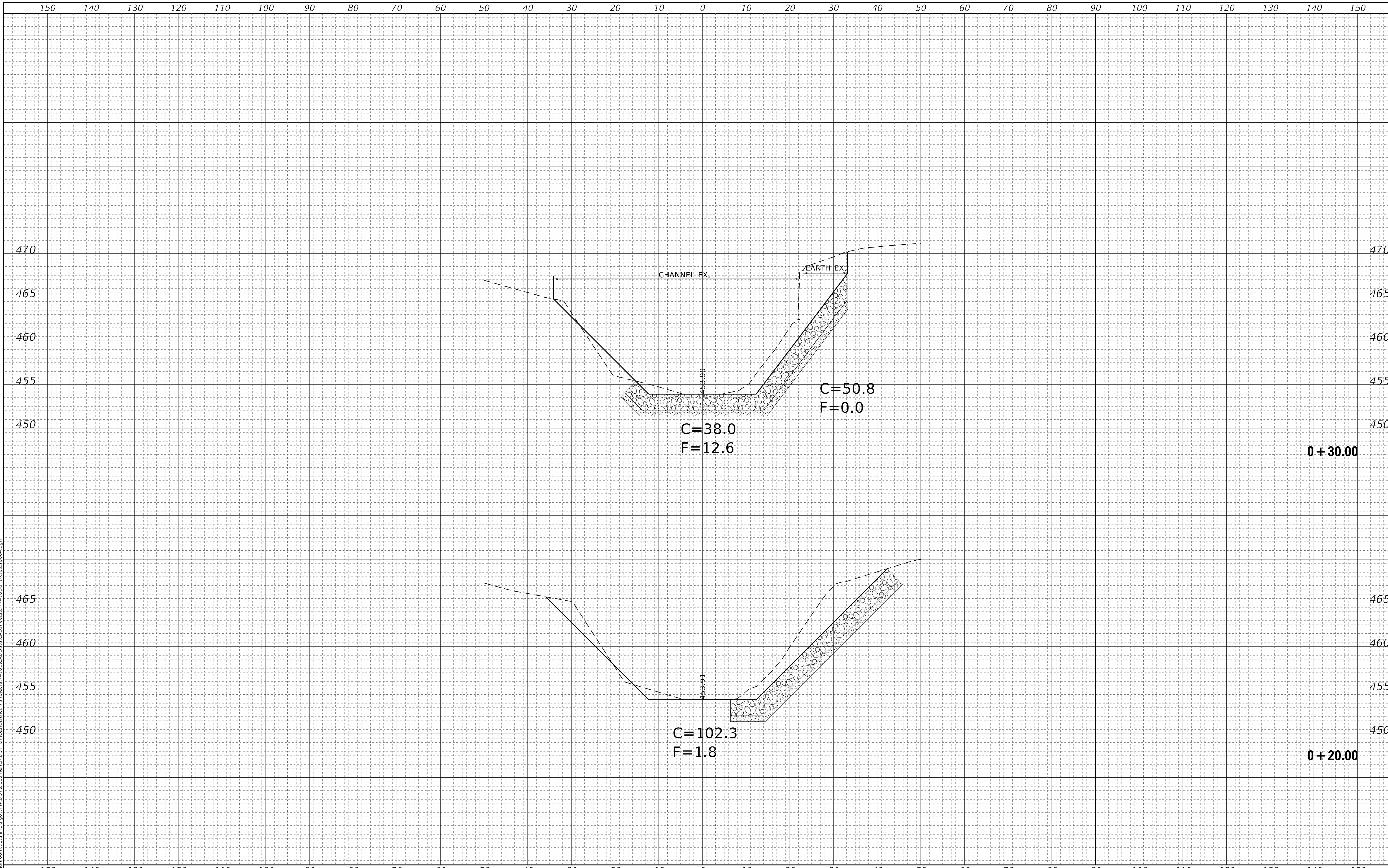
CROSS SECTIONS SUGAR CREEK
S.N. 017–0032

SCALE: 10H:5V | SHEET 1 OF 8 SHEETS | STA. 0+00.00 TO STA. 0+10.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	109

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT



MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CAD Data\CADsheets\D774181-sht-xsecti-10004.dgn

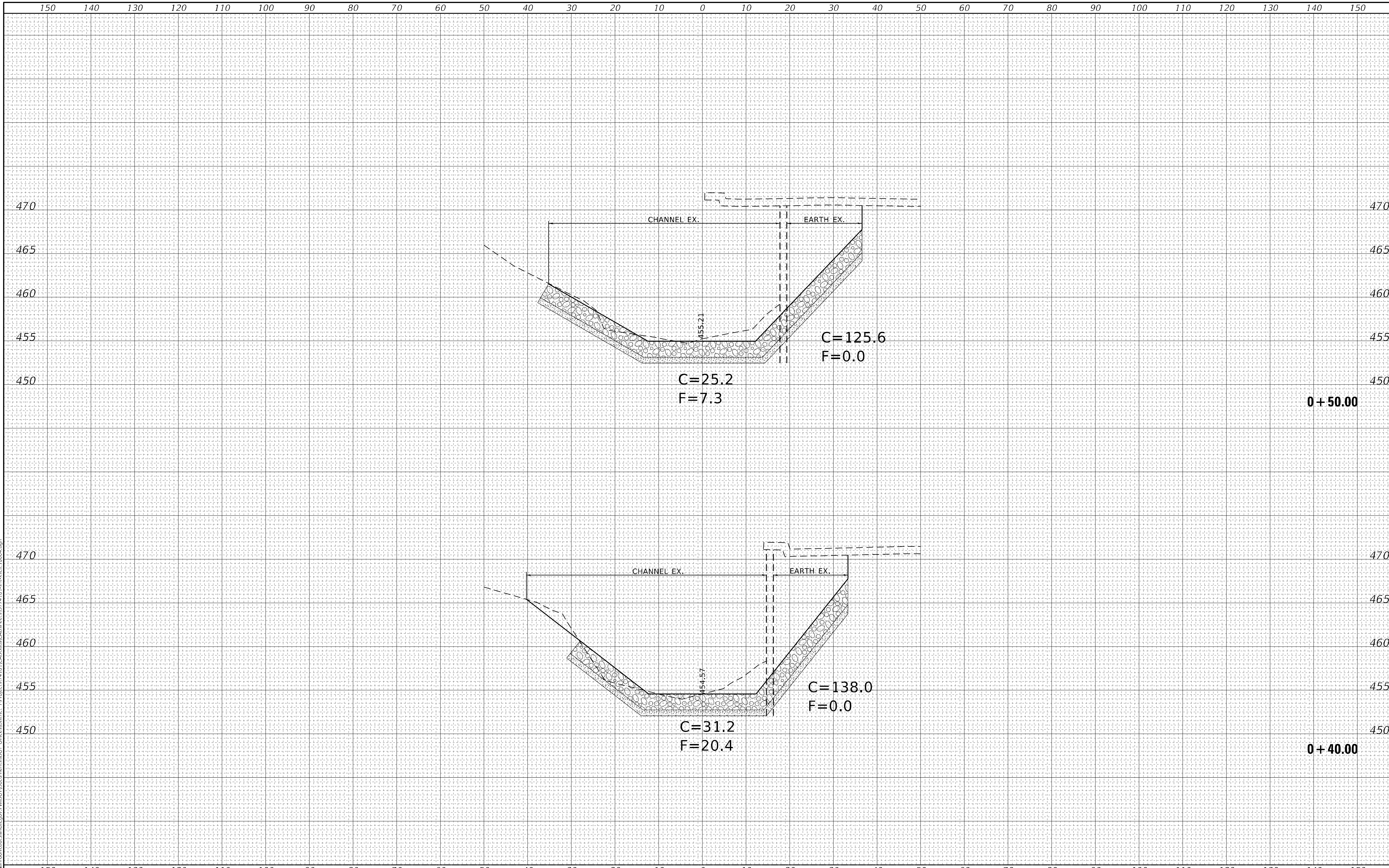
USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS SUGAR CREEK
S.N. 017–0032

SCALE: 10H:5V | SHEET 2 OF 8 SHEETS | STA. 0+20.00 TO STA. 0+30.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	110
		CONTRACT NO. 74181		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL: Default
FILE NAME: pw:\\idot.idotroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADSheets\D774181-sht-xsctl-10004.dgn

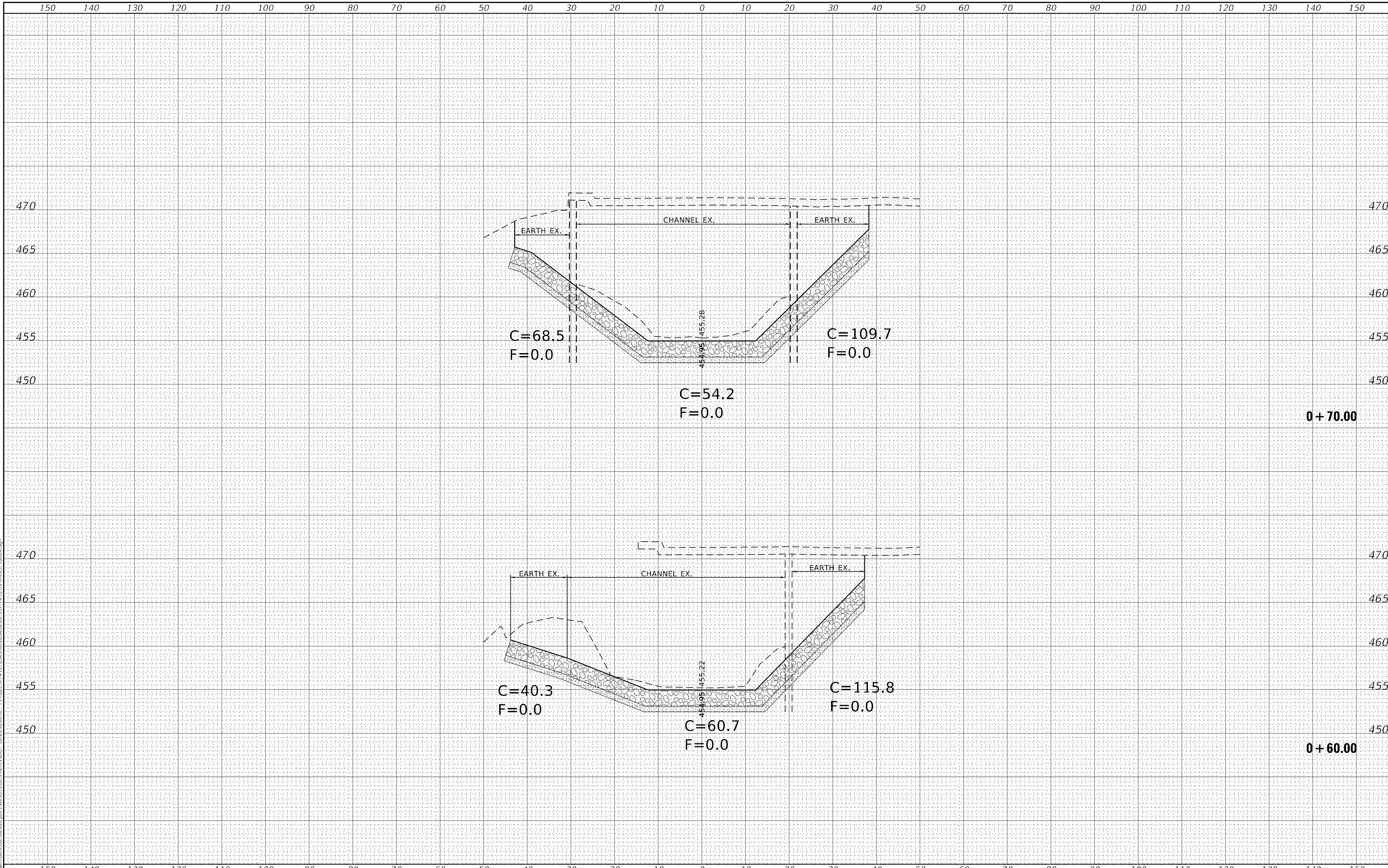
USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS SUGAR CREEK

S.N. 017–0032

SCALE: 10H:5V | SHEET 3 OF 8 SHEETS | STA. 0+40.00 TO STA. 0+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	111
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



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

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

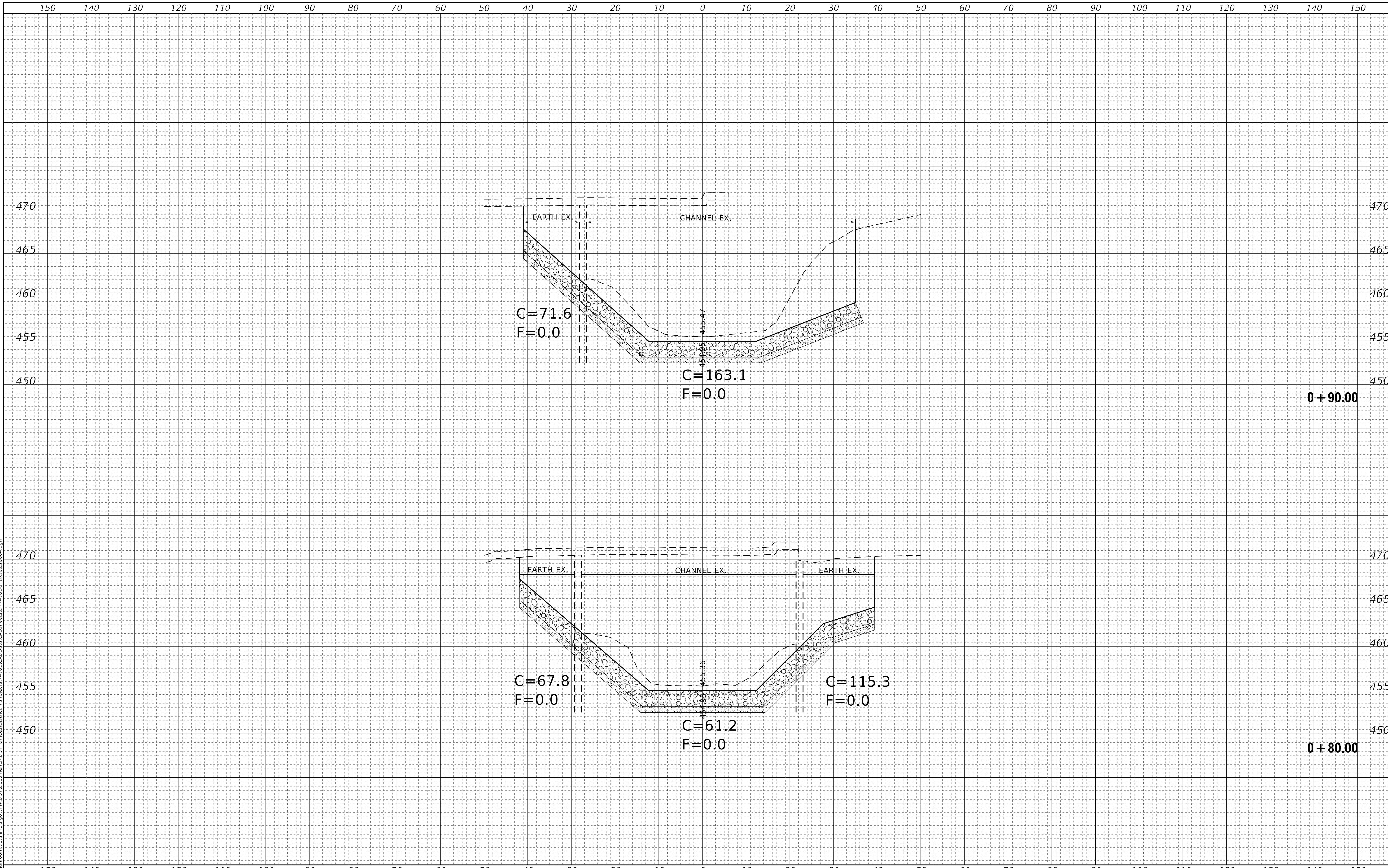
MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74181\CADData\CADsheets\D774181-sht-xscll.10004.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	**STATE OF ILLINOIS**
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS SUGAR CREEK
S.N. 017–0032

SCALE: 10H:5V | SHEET 4 OF 8 SHEETS | STA. 0+60.00 TO STA. 0+70.00

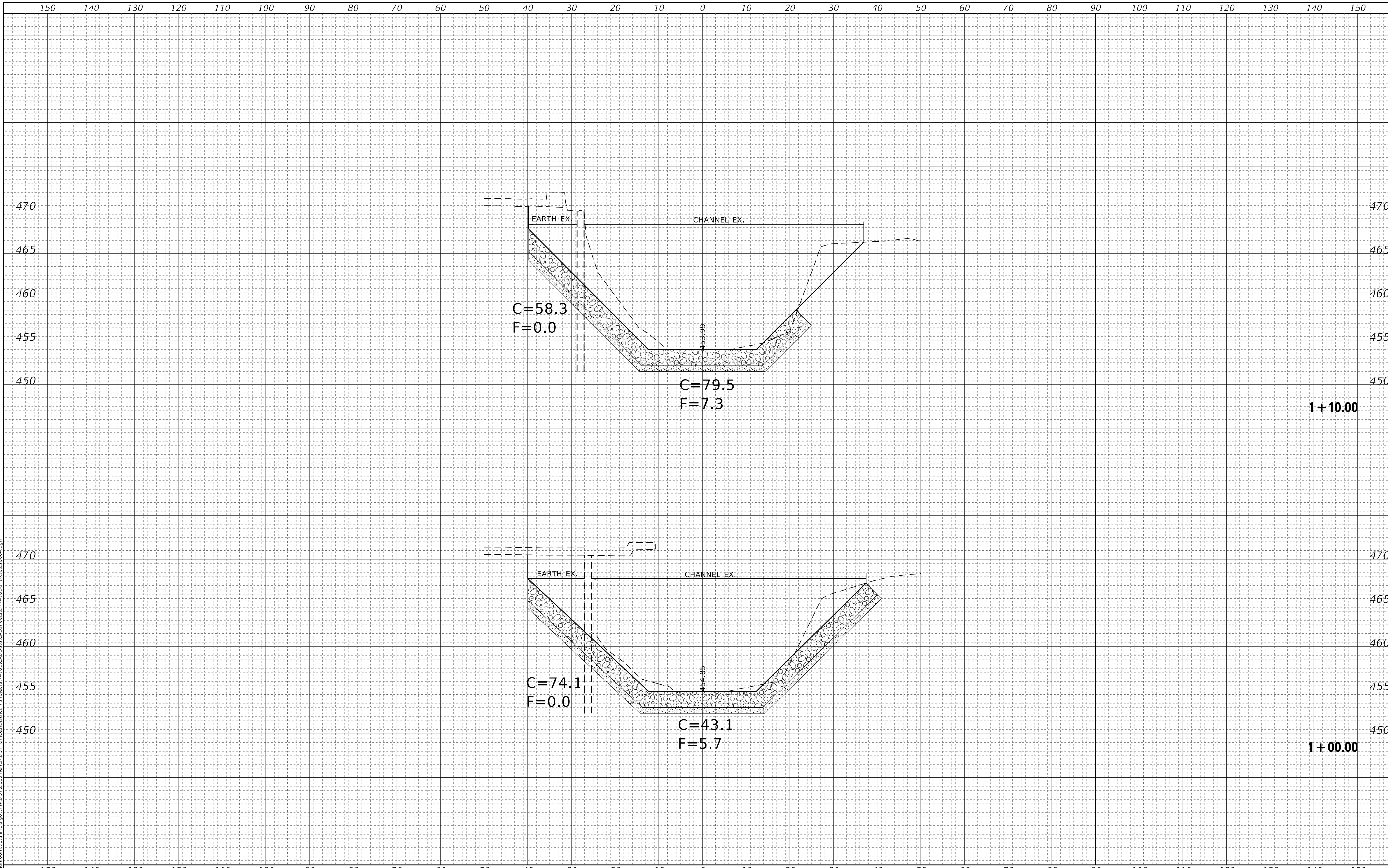
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	112
		CONTRACT NO. 74181		
		ILLINOIS	FED. AID PROJECT	



USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SUGAR CREEK S.N. 017–0032
	DRAWN -	REVISED -		
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 6/22/2021	DATE -	REVISED -		SCALE: 10H:5V SHEET 5 OF 8 SHEETS STA. 0+80.00 TO STA. 0+90.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	113
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		

MODEL: Default



USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS SUGAR CREEK
S.N. 017–0032

SCALE: 10H:5V | SHEET 6 OF 8 SHEETS | STA. 1+00.00 TO STA. 1+10.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	114

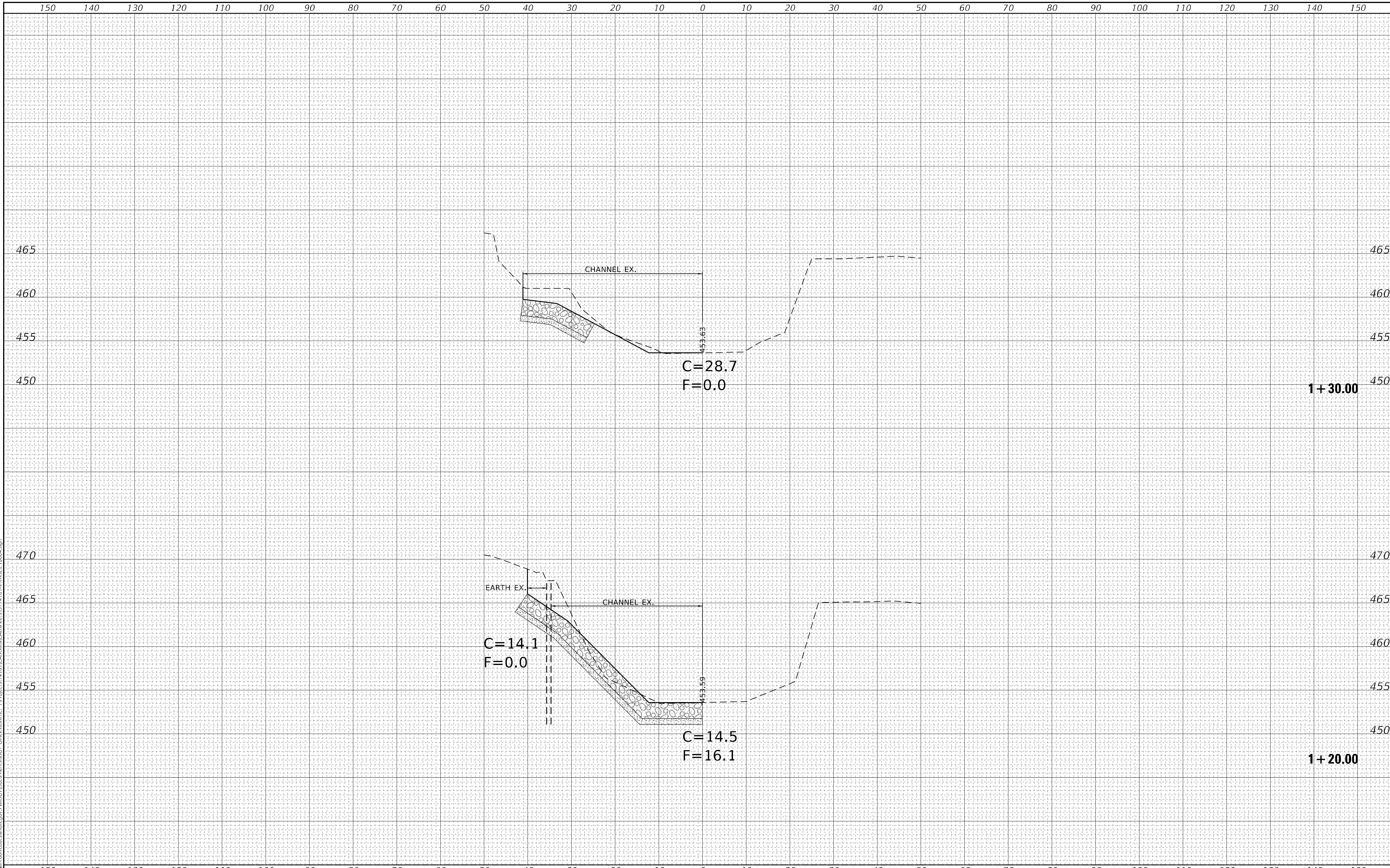
CONTRACT NO. 74181

ILLINOIS FED. AID PROJECT

MODEL: Default

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

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

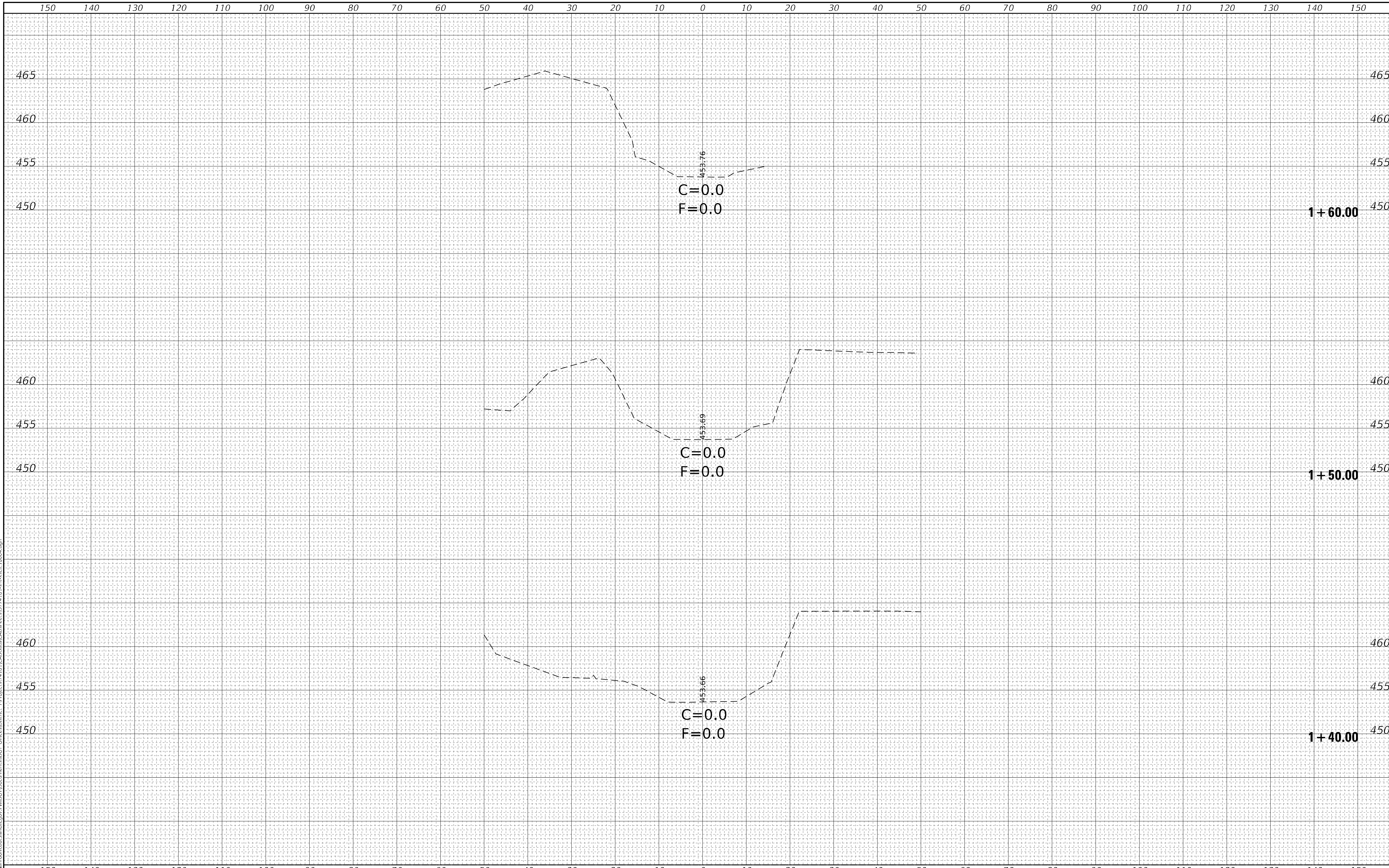


USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS SUGAR CREEK
S.N. 017–0032

SCALE: 10H:5V | SHEET 7 OF 8 SHEETS | STA. 1+20.00 TO STA. 1+30.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	115
		CONTRACT NO. 74181		
		ILLINOIS FED. AID PROJECT		



USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2021	DATE -	REVISED -	

CROSS SECTIONS SUGAR CREEK

S.N. 017–0032

SCALE: 10H:5V | SHEET 8 OF 8 SHEETS | STA. 1+40.00 TO STA. 1+60.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(21-Y, 21-X)B-1	CRAWFORD	116	116

CONTRACT NO. 74181

ILLINOIS | FED. AID PROJECT

MODEL: Default