

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAP RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	*83	1
ILLINOIS			CONTRACT NO. 74915	

\*83 + 5 = 88 TOTAL SHEETS

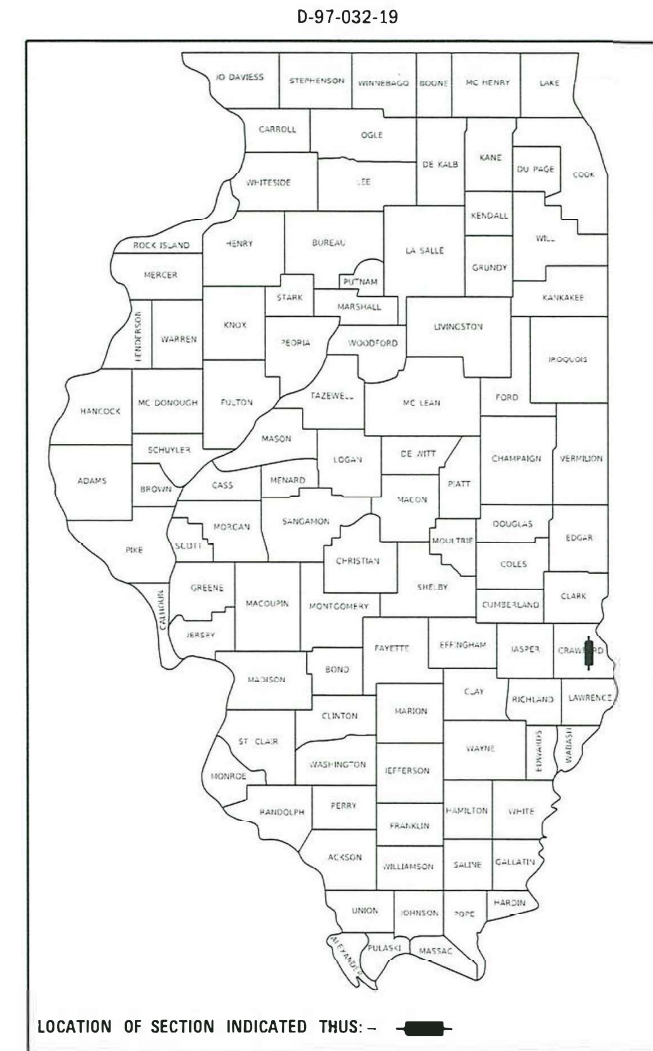
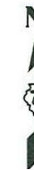
FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

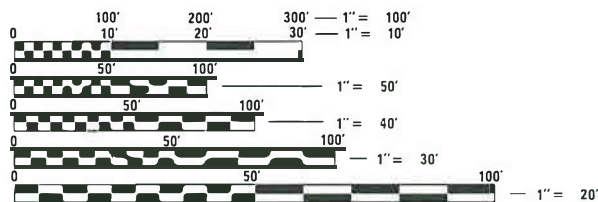
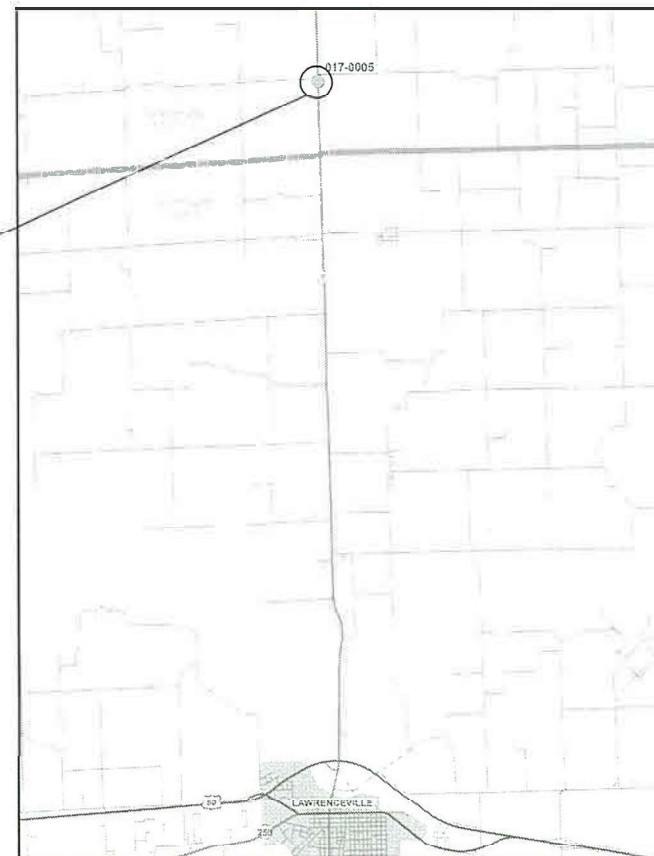
FAP ROUTE 332 (ILL 1)  
SECTION 18B-1 PROJECT  
NHPP-CV1G(902)  
BRIDGE REPLACEMENT  
CRAWFORD COUNTY

C-97-048-19

ADT = 3,850 (2017)



EXISTING S.N. 017-0005, STA. 491+38.00  
2 SPAN C.I.P. CONTINUOUS CONCRETE DECK,  
120'-1" BK TO BK OF APPROACHES. 36'-4"  
OUT TO OUT WIDTH, 45° LT. AHEAD SKEW



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

PROJECT ENGINEER: TOM RONAN  
PROJECT MANAGER: JEFF DAVISON

CONTRACT NO. 74915

GROSS LENGTH = 700 FT. = 0.133 MILE  
NET LENGTH = 700 FT. = 0.133 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 13 2020  
Jeffrey P. Myrland REGIONAL ENGINEER  
June 25, 2021  
Scott A. Elk ENGINEER OF DESIGN AND ENVIRONMENT  
June 25, 2021  
Thomas J. ... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

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**GENERAL NOTES**

THIS PROJECT IS LOCATED ON FAP 332 (IL 1) IN CRAWFORD COUNTY, ILLINOIS, APPROXIMATELY 1 MILE NORTH OF THE LAWERENCE COUNTY LINE. THE WORK INCLUDED IN SECTION 18B-1 CONSISTS OF RE-LOCATING TR 363, REMOVAL AND REPLACEMENT OF SN 017-0005, EARTHWORK, WIDENING OF IL 1 FOR CONSTRUCTION PUPOSES, PAVEMENT MARKING, PLUGGING AND ABANDONING SN 017-8612 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 BITUMINOUS AND HOT-MIX ASPHALT PAY ITEMS.

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

THE FOLLOWING MIXTURE REQUIRMENTS ARE APPLICABLE TO THIS PROJECT

APPLICATION	AC/PG	DESIGN AIR	MIXTURE	FRICTION	QUALITY	PAY ITEM
		VOIDS	COMPOSITION	AGGREGATE	MANAGEMENT	
HMA SURFACE COURSE, MIX "C", N70 (1 1/2" & 2")	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA	HMA SURFACE COURSE, 1 1/2", 2"
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 BINDER COURSE, 6"
HMA BINDER COURSE, N70, IL-9.5FG (1 1/4")	PG 64-22	4.0% @ N=70	IL - 9.5FG	N/A	QC/QA	HMA BINDER COURSE, 1 1/4"
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	

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

**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  
 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS  
 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  
 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  
 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT  
 515001-04 NAME PLATE FOR BRIDGES  
 666001-01 ROW MARKERS  
 725001-01 OBJECT AND TERMINAL MARKERS  
 780001-05 TYPICAL PAVEMENT MARKINGS

BITUMINOUS MATERIALS (PRIME COAT)	0.50 GAL/SQ.YD. (8.34 LB/GAL CONVERSION FACTOR)
BITUMINOUS MATERIALS (COVER AND SEAL COATS)	0.50 GAL/SQ.YD. (8.34 LB/GAL CONVERSION FACTOR)
COVER COAT AGGREGATE	25 LB/SQ.YD.
SEAL COAT AGGREGATE	25 LB/SQ.YD.
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

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	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 017-0035		
20100110	TREE REMOVAL ( 6 TO 15 UNITS DIAMETER)	UNIT	439.7	439.7		
20100210	TREE REMOVAL ( OVER 15 UNITS DIAMETER)	UNIT	116.8	116.8		
20200100	EARTH EXCAVATION	CU YD	3220	3220		
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	10	10		
20300100	CHANNEL EXCAVATION	CU YD	2159	2159		
20400800	FURNISHED EXCAVATION	CU YD	2470	2470		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	6.5	6.5		
* 25000200	SEEDING, CLASS 2	ACRE	1.9	1.9		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	171	171		
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	171	171		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	171	171		
* 25000700	AGRICULTURAL GROUND LIMESTONE	TON	4	4		
* 25100115	MULCH, METHOD 2	ACRE	1.9	1.9		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	570	570		
28000305	TEMPORARY DITCH CHECKS	FOOT	332	332		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 017-0035		
28000400	PERIMETER EROSION BARRIER	FOOT	877	877		
28100107	STONE RIPRAP, CLASS A4	SQ YD	437	437		
28100209	STONE RIPRAP, CLASS A5	TON	1296	1296		
28200200	FILTER FABRIC	SQ YD	962	962		
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	111	111		
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	1893	1893		
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	543	543		
40300200	BITUMINOUS MATERIALS ( PRIME COAT)	TON	4	4		
40300400	BITUMINOUS MATERIALS ( COVER AND SEAL COATS)	TON	4	4		
40300500	COVER COAT AGGREGATE	TON	25	25		
40300600	SEAL COAT AGGREGATE	TON	25	25		
40600290	BITUMINOUS MATERIALS ( TACK COAT)	POUND	1121	1121		
40600990	TEMPORARY RAMP	SQ YD	104	104		
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	85	85		

\* SPECIALTY ITEM

REV. - MS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	3
CONTRACT NO. 74915			ILLINOIS FED. AID PROJECT	

80% FED  
20% STATE

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20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 017-0035		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	37	37		
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	154	154		
42000060	WELDED WIRE REINFORCEMENT	SO YD	224	224		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SO YD	224	224		
44000100	PAVEMENT REMOVAL	SO YD	382	382		
44004250	PAVED SHOULDER REMOVAL	SO YD	430.5	430.5		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	407	407		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	44	44		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50200100	STRUCTURE EXCAVATION	CU YD	314	314		
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1	1		
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1	1		
50300100	FLOOR DRAINS	EACH	12	12		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 017-0035		
50300225	CONCRETE STRUCTURES	CU YD	373.8	373.8		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	189.9	189.9		
50300260	BRIDGE DECK GROOVING	SO YD	761	761		
50300280	CONCRETE ENCASEMENT	CU YD	9	9		
50300300	PROTECTIVE COAT	SO YD	954	954		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	104.7	104.7		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1		
50500505	STUD SHEAR CONNECTORS	EACH	3924	3924		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	116140	116140		
50800515	BAR SPLICERS	EACH	882	882		
51201600	FURNISHING STEEL PILES HP12X53	FOOT	1333	1333		
51201900	FURNISHING STEEL PILES HP14X89	FOOT	1370	1370		
51202305	DRIVING PILES	FOOT	2703	2703		
51203600	TEST PILE STEEL HP12X53	EACH	1	1		

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NA SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	4
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

80% FED  
20% STATE

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20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 017-0035		
51204650	PILE SHOES	EACH	46	46		
51500100	NAME PLATES	EACH	1	1		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	106	106		
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	12		
52100510	ANCHOR BOLTS, 3/4"	EACH	48	48		
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	1696	1696		
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2		
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2	2		
54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	FOOT	46	46		
54010702	PRECAST CONCRETE BOX CULVERTS 7' X 2'	FOOT	30	30		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	122.2	122.2		
58700300	CONCRETE SEALER	SO FT	1140	1140		
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	97	97		
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	158	158		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 017-0035		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100	100		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	300	300		
* 63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	188	188		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	13	13		
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		

\* SPECIALTY ITEM

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PLOT DATE = 7/30/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	5
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

80% FED  
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SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 017-0035		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1		
	701326					
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	8	8		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70107006	PAVEMENT MARKING BLACKOUT TAPE, 6"	FOOT	129	129		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	42		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	140	140		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	23	23		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1523	1523		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	462.5	462.5		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5		
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2		
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 017-0035		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1523	1523		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	6		
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	16	16		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6		
* A2001017	TREE, ACER RUBRUM NORTHWOOD (NORTHWOOD RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	14	14		
* A2001716	TREE, ACER SACCHARUM (SUGAR MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	10	10		
* A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	10	10		
* B2001116	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	10	10		
* D2002972	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	10	10		
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	256	256		
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	30	30		

\* SPECIALTY ITEM

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PLOT DATE = 7/30/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	6
			CONTRACT NO. 74915	
ILLINOIS FED. AID PROJECT				

80% FED  
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SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 017-0035		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	1664	1664		
X4404400	PAVEMENT REMOVAL (SPECIAL)	SO YD	1466	1466		
X5012502	CONCRETE REMOVAL (SPECIAL)	CU YD	52.3	52.3		
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1		
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	508	508		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	78	78		
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHOLE ( COLD MIX)	TON	1	1		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	140	140		
Z0076600	TRAINEES	HOUR	500	500		
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		

SUMMARY OF QUANTITIES				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT					

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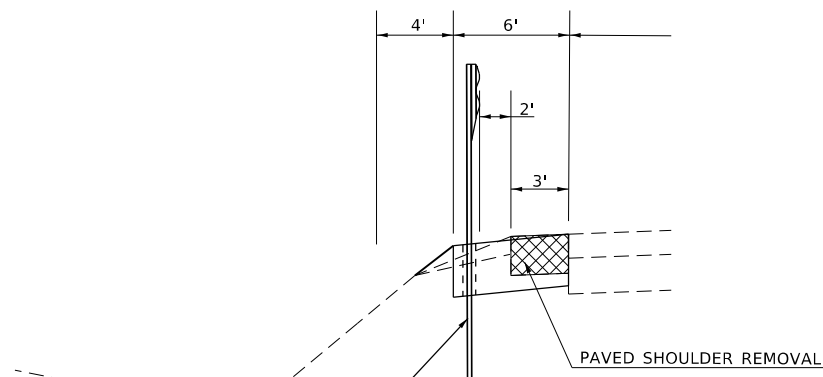
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
NA	5	5	5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	7
			CONTRACT NO. 74915	
ILLINOIS FED. AID PROJECT				

**STAGE I (SB)**

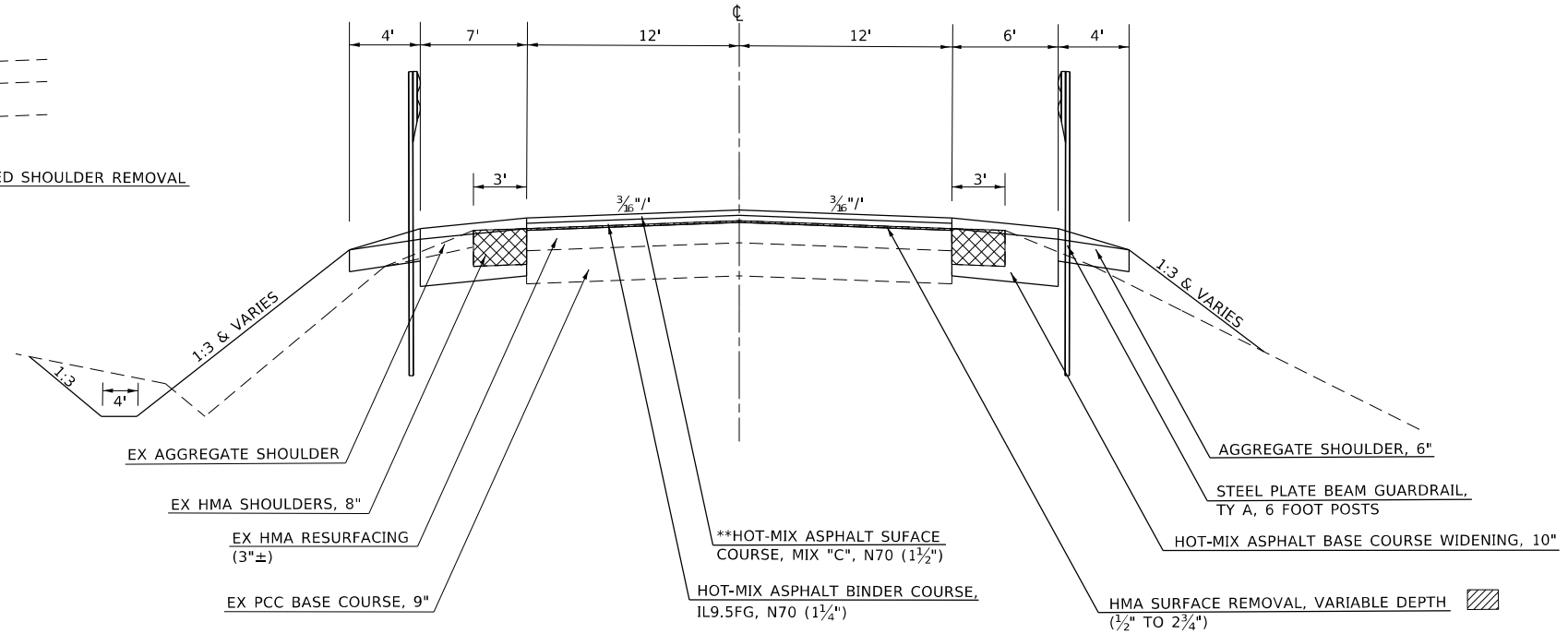


\*REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL

\* EXISTING STEEL PLATE BEAM GUARDRAIL TO BE REMOVED AT THE LOCATIONS SHOWN IN THE PLANS WILL BE RE-ERECTED AFTER CONSTRUCTION OF THE BASE COURSE WIDENING. THE BASE COURSE WIDENING SHALL BE CORED FOR THE POSTS TO BE RE-INSTALLED. AFTER STAGE II REMOVAL OF THE GUARDRAIL, THE CORE HOLES SHALL BE FILLED WITH EPOXY GROUT.

**TYPICAL CROSS SECTIONS**

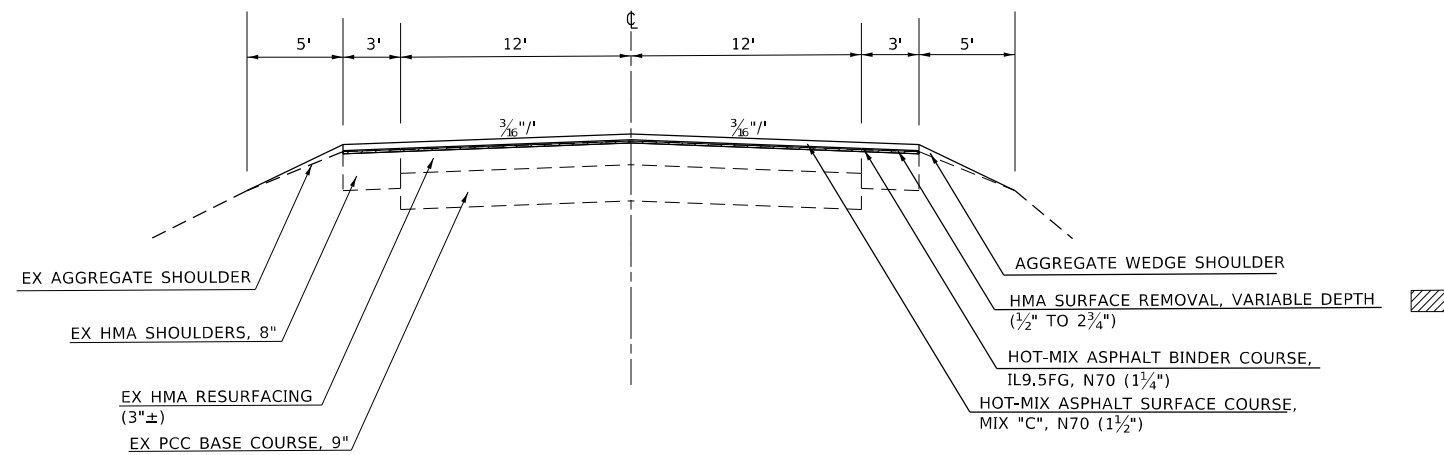
IL RTE 1  
 STA. 488+32.20 TO STA. 490+06.50  
 STA. 490+06.50 TO STA. 492+69.50 (PAVING OMISSION)  
 STA. 492+69.50 TO STA. 494+25.20



\*\*NOTE: SHOULDER QUANTITIES FOR THE FINAL RESURFACING IN THE AREAS OF THE HMA BASE COURSE WIDENING ARE INCLUDED IN THE HMA SURFACE COURSE.

**TYPICAL CROSS SECTIONS**

IL RTE 1  
 STA. 488+00.00 TO STA. 488+33.20  
 STA. 494+25.20 TO STA. 495+00.00



MODEL NUMBER: MAMES  
 FILE NAME: 811E15

USER NAME = SUSERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SCALES	CHECKED -	REVISED -
PLOT DATE = SDATES	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

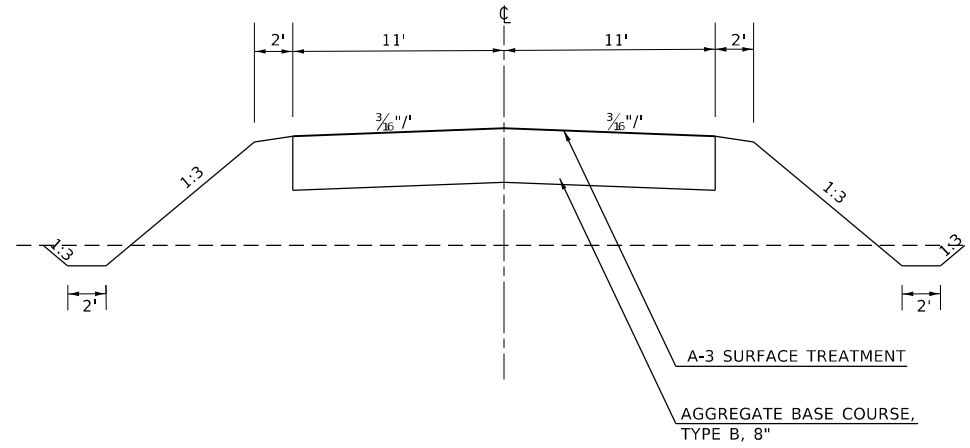
<b>TYPICAL SECTIONS IL Rte. 1</b>			
SCALE: NA	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	8
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



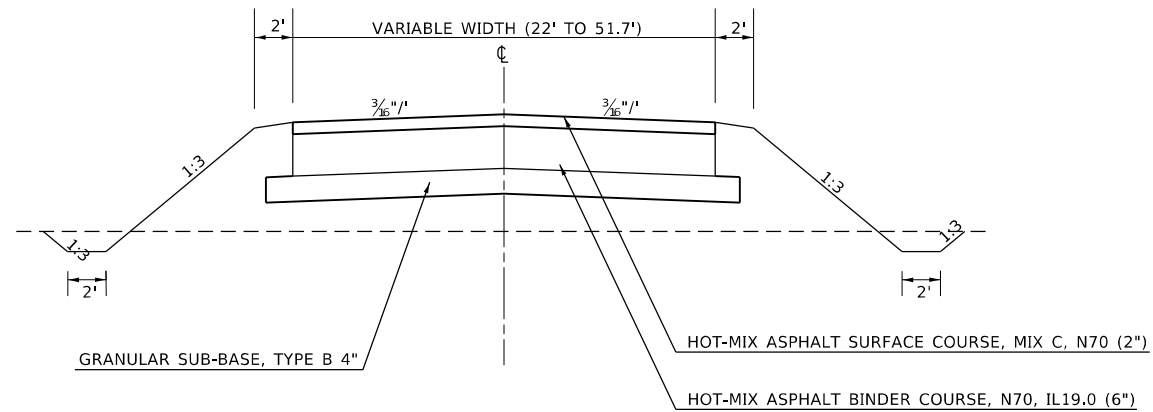
### TYPICAL CROSS SECTIONS

T.R. 363  
STA. 91+75.00 TO STA. 99+58.00



### TYPICAL CROSS SECTIONS

T.R. 363  
STA. 99+58.00 TO STA. 99+87.87



MODEL NUMBER: 18B-1  
FILE NAME: 18B-1.DWG

USER NAME = SUSERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 5/8"=1'	CHECKED -	REVISED -
PLOT DATE = 5/20/15	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
T.R. 363**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	9
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

PAVING SCHEDULE

STATION		TO	STATION	LENGTH FEET	PAVEMENT WIDTH FEET	SHOULDER WIDTH FEET	AREA SQ FT	HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH) SQ YD	BITUMINOUS MATERIALS (TACK COAT) POUND	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70 TON	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70 TON	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 TON	BITUMINOUS MATERIALS (PRIME COAT) TON	BITUMINOUS MATERIALS (COVER AND SEAL COATS) TON	COVER COAT AGGREGATE TON	SEAL COAT AGGREGATE TON
FAP 332 (IL RTE 1)																
488+00.00	TO		488+21.49	21.5	29.5	0.0	634.0	70.4	47.5	4.9	5.9					
488+21.49	TO		488+24.18	2.7	29.5	0.0	79.4	10.1	6.0	0.6	0.8					
488+24.18	TO		488+33.21	9.0	26.8	4.5	282.6	32.9	21.2	1.9	2.8					
488+33.21	TO		488+72.84	39.6	24.0	6.0	1,188.9	132.1	89.2	7.4	14.7					
488+72.84	TO		490+06.50	133.7	24.0	12.0	4,811.8	534.6	360.9	24.9	45.1					
490+06.50	TO		490+34.50	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	PAVING OMISSION				
490+34.50	TO		492+41.50	207.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
492+41.50	TO		492+69.50	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
492+69.50	TO		494+24.82	155.3	24.0	12.0	5,591.5	621.3	419.4	29.0	53.6					
494+24.82	TO		494+42.53	17.7	24.0	10.5	611.0	67.9	45.8	3.3	5.7					
494+42.53	TO		494+63.47	20.9	27.0	4.5	659.6	73.3	49.5	4.4	6.2					
494+63.47	TO		495+00.00	36.5	29.9	0.0	1,092.2	121.4	81.9	8.5	10.2					
T.R. 363																
91+50.00	##		92+50.00	100.0	17.5'-22.0'	NA	1,975.0						0.5	0.5	2.7	2.7
91+55.00	TO		93+03.16	148.2	22.0	NA	2,926.2						0.7	0.7	4.1	4.1
93+03.16	TO		94+65.87	162.7	22.0	NA	3,213.5						0.7	0.7	4.5	4.5
94+65.87	TO		95+00.00	34.1	22.0	NA	674.1						0.2	0.2	0.9	0.9
95+00.00	TO		97+42.92	242.9	22.0	NA	4,797.7						1.1	1.1	6.7	6.7
97+42.92	TO		99+00.00	157.1	22.0	NA	3,102.3						0.7	0.7	4.3	4.3
99+00.00	TO		99+47.00	47.0	22.0	NA	928.3						0.2	0.2	1.3	1.3
99+47.00	TO		99+58.00	11.0	22.0	NA	217.3						0.1	0.1	0.3	0.3
99+58.00	TO		99+87.87	29.9	VAR	NA	998.0			9.3	37.3					
PROJECT TOTALS =								1,664	1,121	85	154	37	4	4	25	25

POROUS GRANULAR EMBANKMENT

LOCATION		DEPTH	HEIGHT	LENGTH	END SECT.	(CU YD)
CULVERT 1	STA 95+00	0.5'	2'	29.5'	6'	2.6
CULVERT 2	STA 99+47	0.5'	2'	46'	6'	3.85
PROJECT TOTAL =						6.5

MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES

LOC.	LENGTH	WIDTH	SY YD
CULVERT 1	30.0	9	30

MODEL NUMBER: MAMES  
FILE NAME: 311E13

USER NAME = SUSERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 5SCALES	CHECKED -	REVISED -
PLOT DATE = 5DATES	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NA SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	10
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

STATION	TO	STATION	LENGTH FEET	SHORT-TERM PAVEMENT MARKING (YELLOW SKIP-DASH) FOOT	SHORT-TERM PAVEMENT MARKING REMOVAL SQ FT	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
FAP 332 (IL 1)												
488+00.00	TO	495+00.00	700.0	140.0	23	175	1,348	175.0	1,348	6	6	508
PROJECT TOTALS =				140.0	23	175	1,348	175.0	1,348	6	6	508

PAVEMENT MARKING REMOVAL-WATER BLASTING

LOCATION			LENGTH FT.	4" LINE SQ FT.	TOTAL SQ FT.
LT. SIDE					
488+90.52	TO	493+86.68	496.2	165.4	165.4
RT. SIDE					
488+71.50	TO	490+06.50	135.0	45.0	45.0
492+69.50	TO	494+05.88	136.4	45.5	45.5
PROJECT TOTAL =					255.9

TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION	DIAMETER (UNIT)	
TREE REMOVAL AREA #1	1	15.20
	1	31.30
	1	21.80
TOTAL=		
TREE REMOVAL AREA #3	1	29.50
	1	19.00
PROJECT TOTAL		
	5	116.80

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION CU YD	EARTH EX 25% ADJ. CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE(+)/SHORTAGE(-) CU YD
T.R. 363				
STA. 91+50.00 TO STA. 99+87.87	1019 (1)	764 (1)	2277	+1019/-2277 (1)
IL 1				
STA. 488+00 TO STA.495+00	2201.0	1651	193	+1458
SUGAR CREEK (CHANNEL EX)				
STA. 1+00 TO STA. 3+75	2159 (2)	1619 (2)	0	+2159 (2)
TOTAL	3220	2415	2470	+2477/-2277

NOTES: (1) DUE TO PRE-STAGE CONSTRUCTION, NONE OF THE EARTH EXCAVATION CAN BE UTILIZED FOR THE EMBANKMENT FOR THE RELOCATED TR 363  
 (2) CHANNEL EXCAVATION IS SHOWN FOR INFORMATION PURPOSED ONLY, THE QUANTITY FOR CHANNEL EX. IS CONSIDERED UNSUITABLE FOR EMBANKMENT

TREE REMOVAL (6-15 UNITS DIAMETER)

LOCATION	DIAMETER (UNITS)	LOCATION	DIAMETER (UNITS)
TREE REMOVAL AREA #1	1	TREE REMOVAL AREA #2	1
	7.30		8.40
	7.40		10.40
	6.40		6.20
	6.10		10.80
	8.10		8.80
	8.10		13.20
	8.60		10.60
	7.10		14.00
	7.80		9.50
	6.10		8.00
	9.40		7.30
	7.20	TOTAL=	107.20
	7.80	LOCATION	
	8.20	TREE REMOVAL AREA #3	
	6.20		1
	6.70		10.60
	10.90		1
	8.20		7.40
	14.50		11.60
	6.30		11.50
	11.50		1
	6.40		10.30
TOTAL=	176.30		1
			9.00
			10.60
			8.10
			6.80
			6.20
			6.40
			10.70
			14.20
			13.50
		TOTAL=	156.2
PROJECT TOTAL=			
			439.70

FURNISHING AND ERECTING ROW MARKERS

LOCATION	O/S	QUANTITY (EACH)
TR 363 (E. 100TH AVE.)		
STA. 91+45.00	LT. 20.0 FT.	1
STA. 91+45.00	RT. 20.0 FT.	1
STA. 91+45.00	LT. 25.0 FT.	1
STA. 91+45.00	RT. 25.0 FT.	1
STA. 93+03.16	RT. 25.0 FT.	1
STA. 93+80.00	RT. 28.0 FT.	1
STA. 94+65.87	RT. 36.0 FT.	1
STA. 97+42.92	RT. 30.0 FT.	1
STA. 97+95.00	RT. 35.0 FT.	1
STA. 98+47.00	RT. 45.0 FT.	1
STA. 99+00.00	RT. 45.0 FT.	1
FAP 332 (IL 1)		
STA. 488+05.00	LT. 70.0 FT.	1
STA. 493+60.70	LT. 150.0 FT.	1
PROJECT TOTAL		
		13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NA SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	11
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

REV. - MS

EXCAVATE AND GRADE EXISTING SHOULDER

LOCATION			LENGTH (FEET)	WIDTH RT (FEET)	WIDTH LT (FEET)	QUANTITY (UNIT)	
488+00.00	TO	488+21.49	21.49	-	-	-	
488+21.49	TO	488+33.21	11.72	4'-6'	-	0.1	BEGIN WIDENING RT.
488+33.21	TO	488+40.52	7.31	6	4'-6'	0.1	BEGIN WIDENING LT.
488+40.52	TO	488+50.00	9.48	6	6	0.2	
488+50.00	TO	488+52.65	2.65	6	6	0.1	
488+52.65	TO	488+72.84	20.19	6	6	0.4	END WIDENING RT.
488+72.84	TO	490+06.50	133.66	6	6	2.7	
490+06.50	TO	490+34.50	28.00	-	6	0.3	
490+34.50	TO	490+64.50	30.00	-	6	0.3	
490+64.50	TO	490+77.91	13.41	-	6	0.1	
490+77.91	TO	490+92.54	14.63	-	6	0.1	END WIDENING LT.
490+92.54	TO	491+97.59	105.05	-	-	1.1	
491+97.59	TO	492+11.50	13.91	-	-	0.1	
492+11.50	TO	492+12.33	0.83	-	6	0.0	BEGIN WIDENING LT.
492+12.33	TO	492+41.50	29.17	-	6	0.3	
492+41.50	TO	492+69.50	28.00	-	6	0.3	
492+69.50	TO	494+24.82	155.32	6	6	3.1	BEGIN WIDENING RT.
494+24.82	TO	494+42.53	17.71	6	4'-6'	0.4	END WIDENING LT.
494+42.53	TO	494+63.47	20.94	4'-6'	-	0.2	END WIDENING RT.
494+63.47	TO	495+00.00	36.53	-	-	-	
SHEET TOTAL =						10	

AGGREGATE SHOULDER, TYPE B 6"

LOCATION			LENGTH (FEET)	AGG RT SHLDR WIDTH (FEET)	AGG LT SHLDR WIDTH (FEET)	QUANTITY (SQ YDS)
488+00.00	TO	488+21.49	21.49	0	0	0.0
488+21.49	TO	488+33.21	11.72	4	0	5.2
488+33.21	TO	488+40.52	7.31	4	0	6.5
488+40.52	TO	488+50.00	9.48	4	0	8.4
488+50.00	TO	488+52.65	2.65	4	0	2.4
488+52.65	TO	488+72.84	20.19	4	4	17.9
488+72.84	TO	490+06.50	133.66	4	4	118.8
490+06.50	TO	490+31.52	25.02	4	4	22.2
490+31.52	TO	490+34.50	2.98	0	4	1.3
490+34.50	TO	490+64.50	30.00	0	4	13.3
490+64.50	TO	490+67.50	3.00	0	4	1.3
490+67.50	TO	490+77.91	10.41	0	4	4.6
490+77.91	TO	490+86.90	8.99	0	4	4.0
490+86.90	TO	490+92.54	5.64	0	0	0.0
490+92.54	TO	491+97.59	105.05	0	0	0.0
491+97.59	TO	492+08.50	10.91	0	0	0.0
492+08.50	TO	492+11.50	3.00	4	0	1.3
492+11.50	TO	492+12.33	0.83	4	0	0.4
492+12.33	TO	492+41.50	29.17	4	0	13.0
492+41.50	TO	492+44.50	3.00	4	0	1.3
492+44.50	TO	492+69.50	25.00	4	4	22.2
492+69.50	TO	494+24.82	155.32	4	4	138.1
494+24.82	TO	494+42.53	17.71	4	4	15.7
494+42.53	TO	494+63.47	20.94	4	0	9.3
494+63.47	TO	495+00.00	36.53	0	0	0.0
PROJECT TOTAL =						407

AGGREGATE WEDGE SHOULDER, TYPE B

LOCATION			LENGTH (FEET)	AGG SHLDR WIDTH (FEET)	AGG SHLD DEPTH (INCHES)	AREA (CU YD)	QUANTITY (TON)
488+00.00	TO	490+06.50	206.5	8.0	2.0	10.2	20.9
492+69.50	TO	495+00.00	230.5	8.0	2.0	11.4	23.3
PROJECT TOTAL =							44.0

GUARDRAIL REMOVAL

LOCATION				LENGTH (FOOT)	QUANTITY (FOOT)
488+98.97	TO	490+62.40	RT.	163.4	163.4
490+66.32	TO	490+92.21	LT.	25.9	25.9
491+83.55	TO	492+95.85	RT.	112.3	112.3
492+13.79	TO	493+75.53	LT.	161.7	161.7
PROJECT TOAL =					299.9

TRAFFIC BARRIER TERMINAL, TYPE 6

LOCATION				QUANTITY (EACH)
489+94.60	TO	490+34.00	RT.	1.0
489+30.60	TO	490+70.00	LT.	1.0
492+06.00	TO	492+45.40	RT.	1.0
492+42.00	TO	492+81.40	LT.	1.0
PROJECT TOTAL =				4.0

REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL, TYPE A

LOCATION			LENGTH (FOOT)	QUANTITY (FOOT)
490+66.32	TO	490+92.21	LT.	25.9
492+13.79	TO	493+75.53	LT.	161.7
PROJECT TOAL =				187.6

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

LOCATION				QUANTITY (EACH)
489+94.60	TO	490+44.60	RT.	1.0
489+80.60	TO	490+30.60	LT.	1.0
492+45.40	TO	492+95.40	RT.	1.0
492+81.40	TO	493+31.40	LT.	1.0
PROJECT TOTAL =				4.0

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS

LOCATION				QUANTITY (FOOT)
489+44.60	TO	489+94.60	RT.	50.0
492+81.40	TO	493+31.40	LT.	50.0
PROJECT TOAL =				100.0

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	12
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
FILE NAME: p:\pub\mbaroon.dwt  
PROJECT: 74915\CA00Data\CAD\Drawings\74915-SS-SS-SS.dgn

SEEDING SCHEDULE

LOCATION	QUANTITY (SQ. FT.)	QUANTITY (ACRE)	QUANTITY (POUND)	QUANTITY (POUND)	QUANTITY (POUND)	QUANTITY (TON)	QUANTITY (ACRE)	QUANTITY (POUND)
AREA 1	16,030.87	0.37	33.12	33.12	33.12	0.74	0.37	110.41
AREA 2	13,663.13	0.31	28.23	28.23	28.23	0.63	0.31	94.10
AREA 3	44,660.63	1.03	92.27	92.27	92.27	2.05	1.03	307.58
AREA 4	557.93	0.01	1.15	1.15	1.15	0.03	0.01	3.84
AREA 5	1,227.90	0.03	2.54	2.54	2.54	0.06	0.03	8.46
AREA 6	4,243.02	0.10	8.77	8.77	8.77	0.19	0.10	29.22
AREA 7	2,194.02	0.05	4.53	4.53	4.53	0.10	0.05	15.11
PROJECT TOTAL=		1.90	171	171	171	4	1.90	570

NOTE: SEEDING AREAS ARE SHOWN IN THE PLANS

GUARDRAIL REFLECTORS, TYPE B

LOCATION	CRYSTAL (BI-DIRECT) (EACH)	TOTAL QUANTITY (EACH)
IL 1		
SW QUADRANT	4	4
NW QUADRANT	4	4
NE QUADRANT	4	4
SE QUADRANT	4	4
TOTAL =		16

TEMPORARY CONCRETE BARRIER

STAGE I	LOCATION	LENGTH (FOOT)	TAPER
	489+44.55 TO 489+81.25	37.5	4.7/1 TAPER
	489+81.25 TO 492+94.25	312.5	
	492+94.25 TO 494+06.60	112.5	12/1 TAPER
PROJECT TOTAL=		462.5	

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

STAGE I	LOCATION	QUANTITY (EACH)
	0+00.00 RT. 4'	1
	494+06.60 RT. 6'	1
PROJECT TOTAL =		2

IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE), TEST LEVEL III

STAGE II	LOCATION	QUANTITY (EACH)
	489+32.43 LT. 4'	1
	494+18.90 LT. 6'	1
PROJECT TOTAL =		2

RELOCATE TEMPORARY CONCRETE BARRIER

STAGE I	LOCATION	LENGTH (FOOT)	TAPER
	489+32.43 TO 489+81.25	50.0	5.8/1 TAPER
	489+81.25 TO 492+94.25	312.5	
	492+94.25 TO 494+18.90	125.0	12/1 TAPER
PROJECT TOTAL=		487.5	

GEOCOMPASITE WALL DRAIN

LOC.	LENGTH	WIDTH	SY YD
CULVERT 1	30.0	9	30
Abutment			67
TOTAL			97

TEMPORARY DITCH CHECKS

LOCATION	QUANTITY (EACH)	QUANTITY (FOOT)
TR 363		
91+50.00	RT. & LT.	2
91+80.00	RT. & LT.	2
92+55.00	RT. & LT.	2
93+80.00	RT. & LT.	2
94+00.00	LT.	1
94+90.00	RT. & LT.	2
95+10.00	RT. & LT.	2
96+60.00	RT. & LT.	2
99+25.00	RT. & LT.	2
7'X2' CULVERT DITCH TO SUGAR CK.		2
5'X3' CULVERT DITCH TO SUGAR CK.		2
ILL 1		
491+80.40	Rt.	1
PROJECT TOTAL=		332.4

50' SPACING

150' SPACING

PERIMETER EROSION BARRIER

LOCATION	QUANTITY (FOOT)
TR 363	
91+50.00 TO 93+50.00	LT.
93+50.00 TO 93+75.00	LT.
93+75.00 TO 94+00.00	LT.
94+00.00 TO 94+50.00	LT.
94+50.00 TO 94+82.40	LT.
94+82.40 (TR 363 = 492+10.49 (IL 1))	
ILL 1	
492+10.49 TO 491+53.50	LT.
491+53.50 TO 490+84.10	LT.
488+02.40 TO 489+88.90	RT.
489+88.90 TO 490+49.60	RT.
490+49.60 TO 490+51.20	RT.
PROJECT TOTAL =	

MODEL NUMBER: MAMES  
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

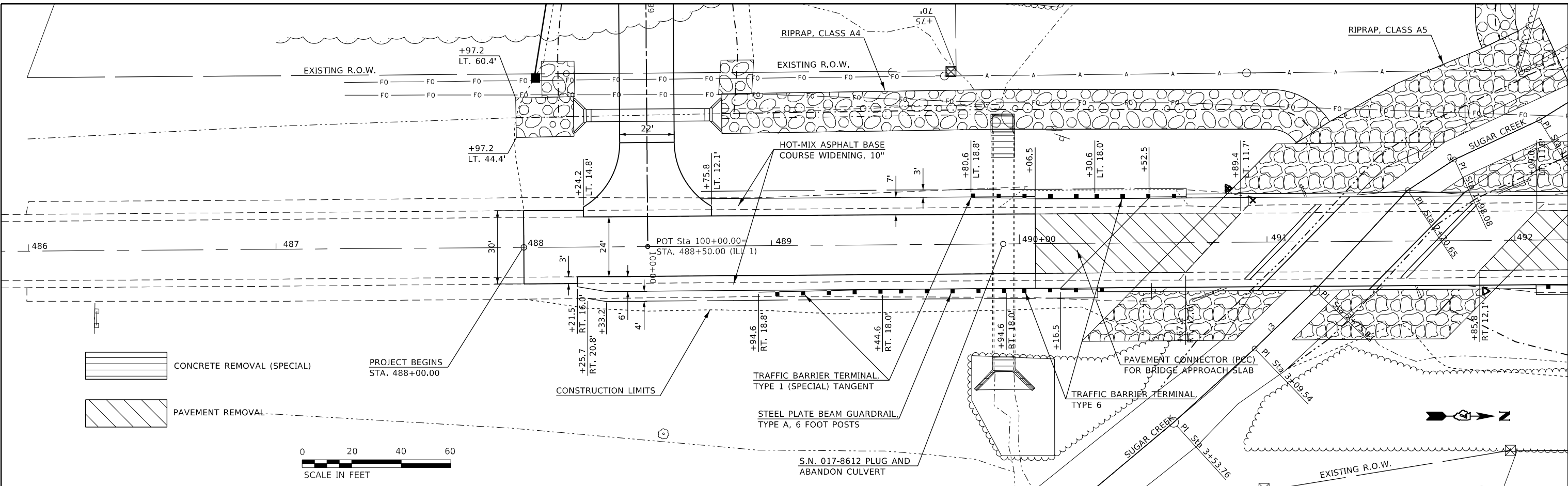
SCHEDULE OF QUANTITIES			
SCALE: NA	SHEET 4	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	13
			CONTRACT NO. 74915	
		ILLINOIS	FED. AID PROJECT	

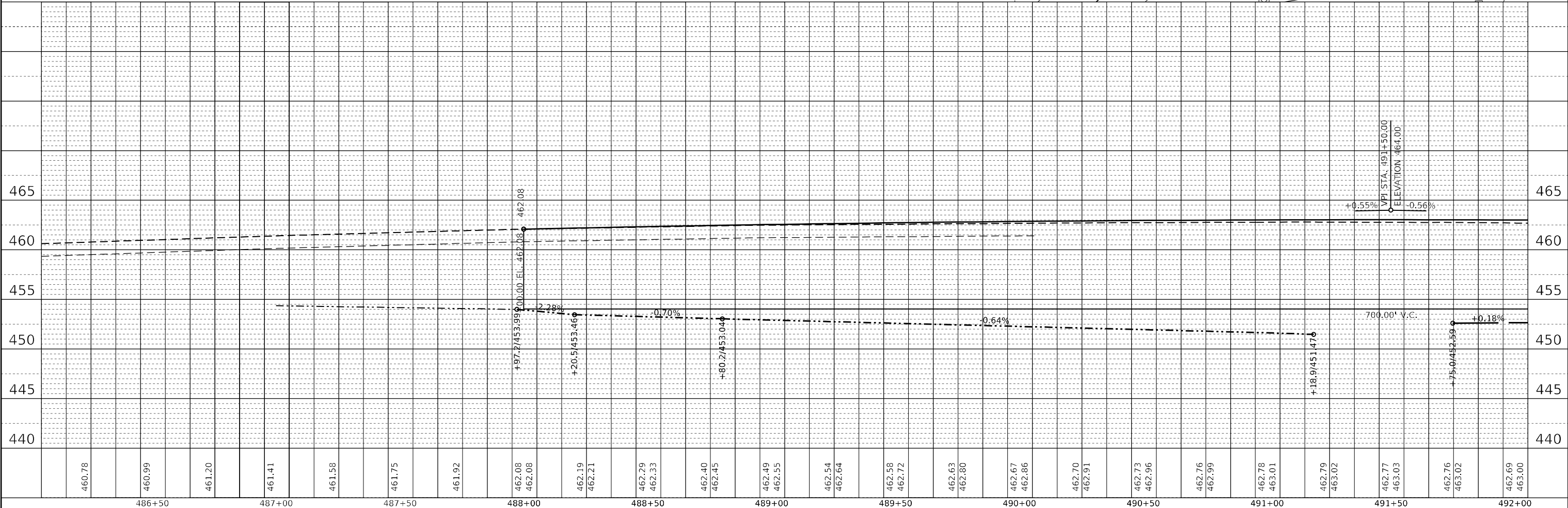
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	NOTE BOOK NO.	
	STRUCTURE NOTATIONS	

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CONCRETE REMOVAL (SPECIAL)  
 PAVEMENT REMOVAL



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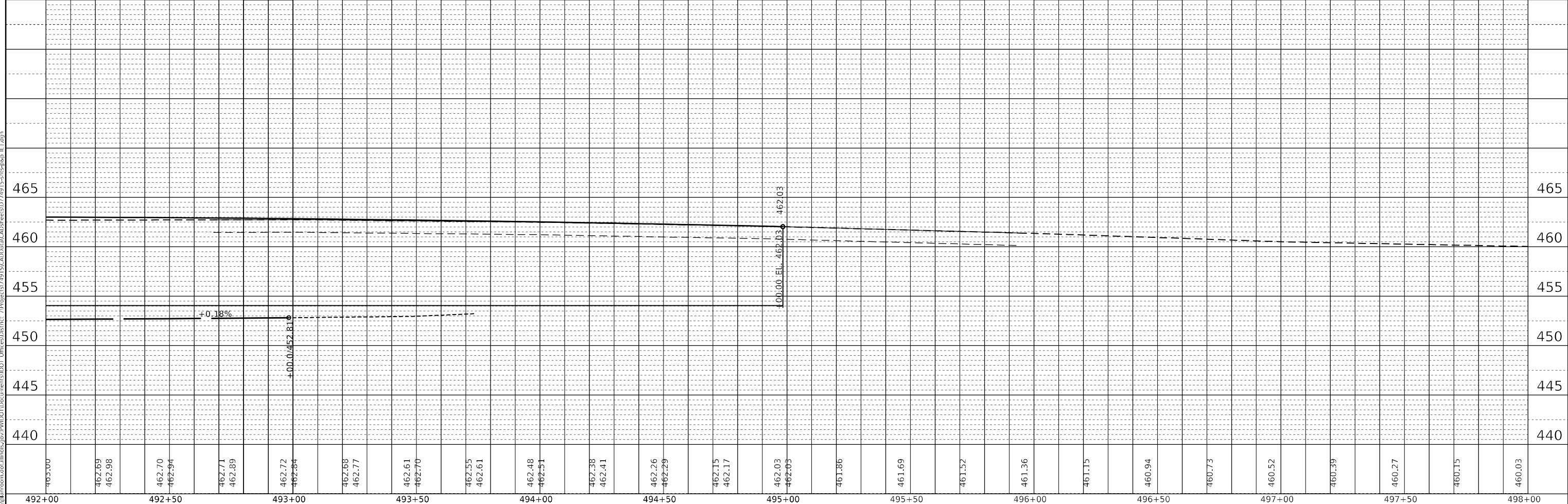
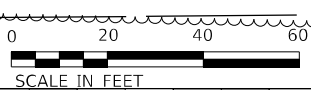
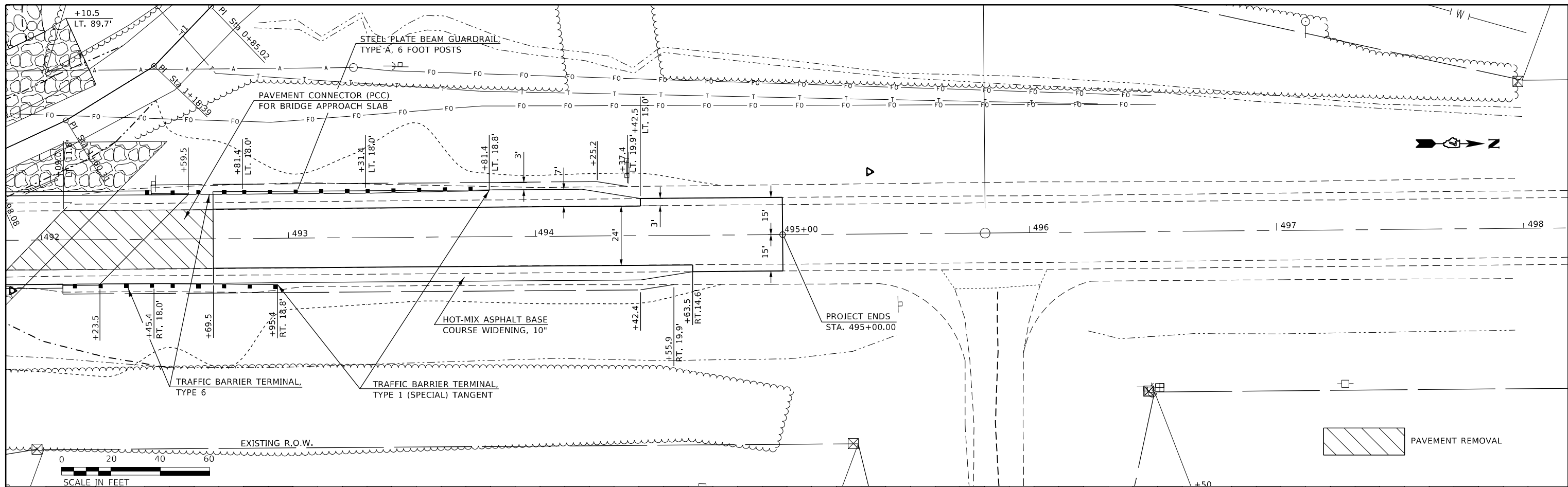
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>IL RTE 1 PLAN AND PROFILE</b>			
SCALE: 20H:5V	SHEET 1	OF 2 SHEETS	STA. 486+00.00 TO STA. 492+00.00

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 14
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	GRADE CHECKED		
NO.	STRUCTURE NOTATION		
	STRUCTURE CURVED		

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



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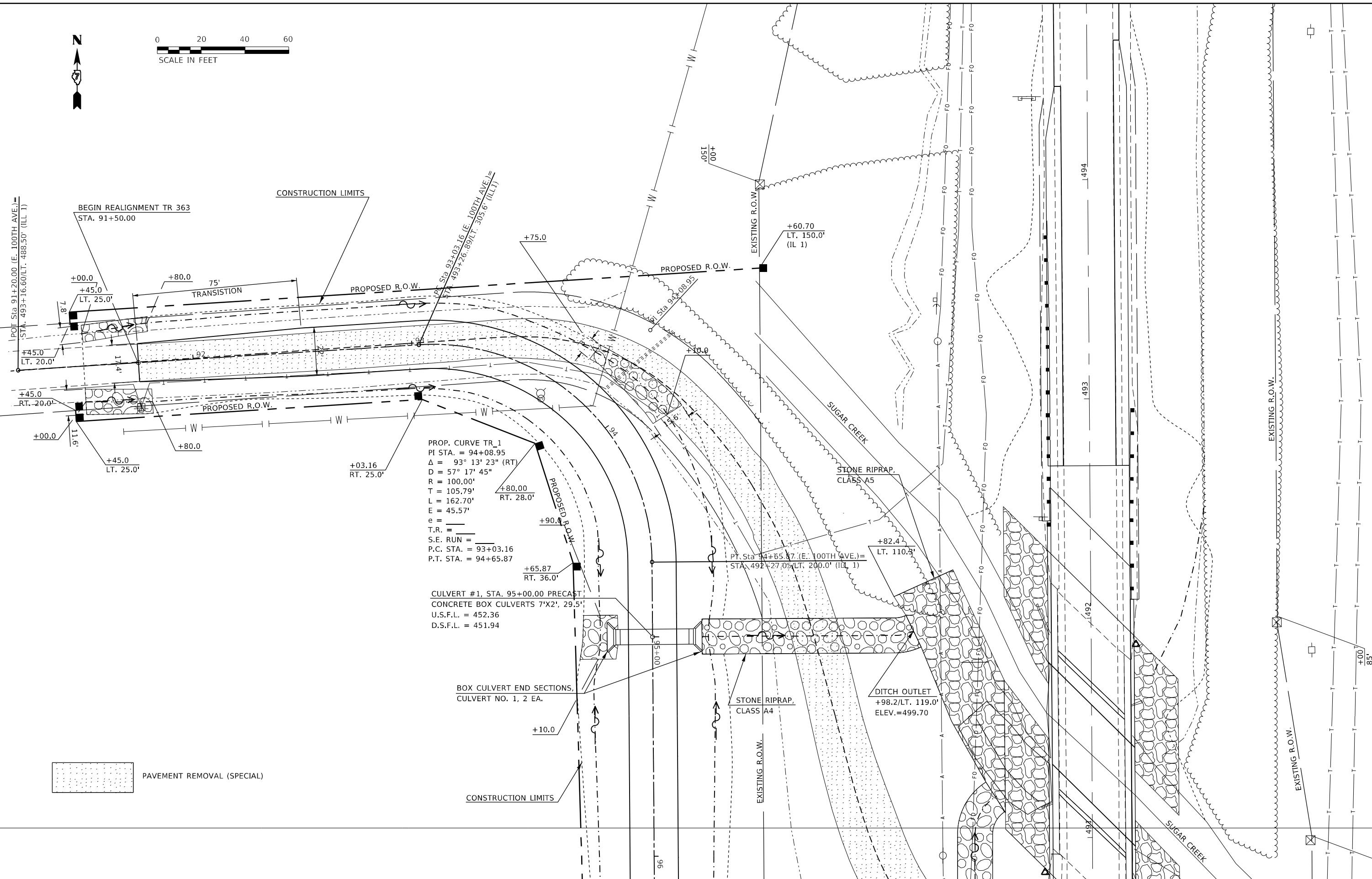
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PLOT SCALE = 40,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 7/30/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL RTE 1  
PLAN AND PROFILE**

SCALE: 20 H:5V SHEET 2 OF 2 SHEETS STA. 492+00.00 TO STA. 498+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	15
CONTRACT NO. 74915				
		ILLINOIS	FED. AID PROJECT	



PROP. CURVE TR\_1  
 PI STA. = 94+08.95  
 $\Delta = 93^\circ 13' 23''$  (RT)  
 $D = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 105.79'$   
 $L = 162.70'$   
 $E = 45.57'$   
 $e = \quad$   
 $T.R. = \quad$   
 $S.E. RUN = \quad$   
 $P.C. STA. = 93+03.16$   
 $P.T. STA. = 94+65.87$

CULVERT #1, STA. 95+00.00 PRECAST  
 CONCRETE BOX CULVERTS 7'X2', 29.5'  
 U.S.F.L. = 452.36  
 D.S.F.L. = 451.94

BOX CULVERT END SECTIONS,  
 CULVERT NO. 1, 2 EA.

 PAVEMENT REMOVAL (SPECIAL)

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 DATE: 7/30/2020

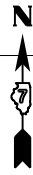
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PLOT DATE = 7/30/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>T.R. 363    PLAN SHEET</b>	
SCALE: 20	SHEET 1 OF 2 SHEETS
STA. 91+20.00	TO STA. 96+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	16
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				





CONSTRUCTION LIMITS

PROPOSED R.O.W.

PROPOSED R.O.W.

PROPOSED R.O.W.

PROPOSED R.O.W.

EXISTING R.O.W.

CONSTRUCTION LIMITS

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

+42.92  
RT. 30.0'

+95.00  
RT. 35.0'

PI Sta 98+42.92

PROP. CURVE TR\_2  
 PI STA. = 98+42.92  
 $\Delta = 90^\circ 00' 00''$  (LT)  
 $D = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 100.00'$   
 $L = 157.08'$   
 $E = 41.42'$   
 $e =$   
 T.R. =  
 S.E. RUN =  
 P.C. STA. = 97+42.92  
 P.T. STA. = 99+00.00

CULVERT #2, STA. 99+47.00 PRECAST  
 CONCRETE BOX CULVERTS 5'X3', 46'  
 U.S.F.L = 453.41  
 D.S.F.L = 453.09

BOX CULVERT END SECTIONS,  
 CULVERT NO. 2, 2 EA.

PC Sta 97+42.92 (E. 100TH AVE.)=  
 STA. 489+50.00/LT. 200.0'(ILL 1)

STONE RIPRAP,  
 CLASS A4

+7.5

+25.0

PT Sta 99+00.00

+47.00  
RT. 45.0'

+05.00  
LT. 70.0'  
(ILL 1)

EXISTING R.O.W.

+58.0

+47.0  
RT. 52.8'

R 30'

R 30'

489

POT Sta 100+00.00=  
STA. 488+50.00 (ILL 1)

51.7'

488

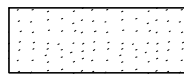
87

1.4

1.490+00

POI TR 363 WITH EOP IL 1  
 STA. 99+87.87

+00  
100'



PAVEMENT REMOVAL (SPECIAL)

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PLOT DATE = 7/30/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 20		SHEET 2 OF 2 SHEETS		STA. 96+00.00 TO STA. 100+00.00	
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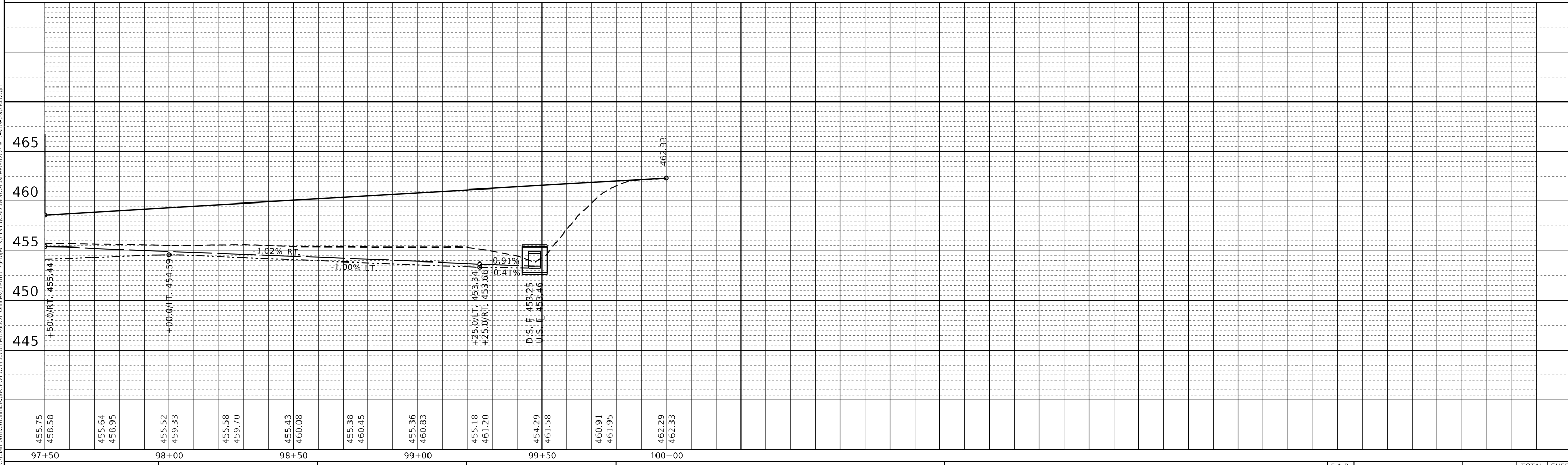
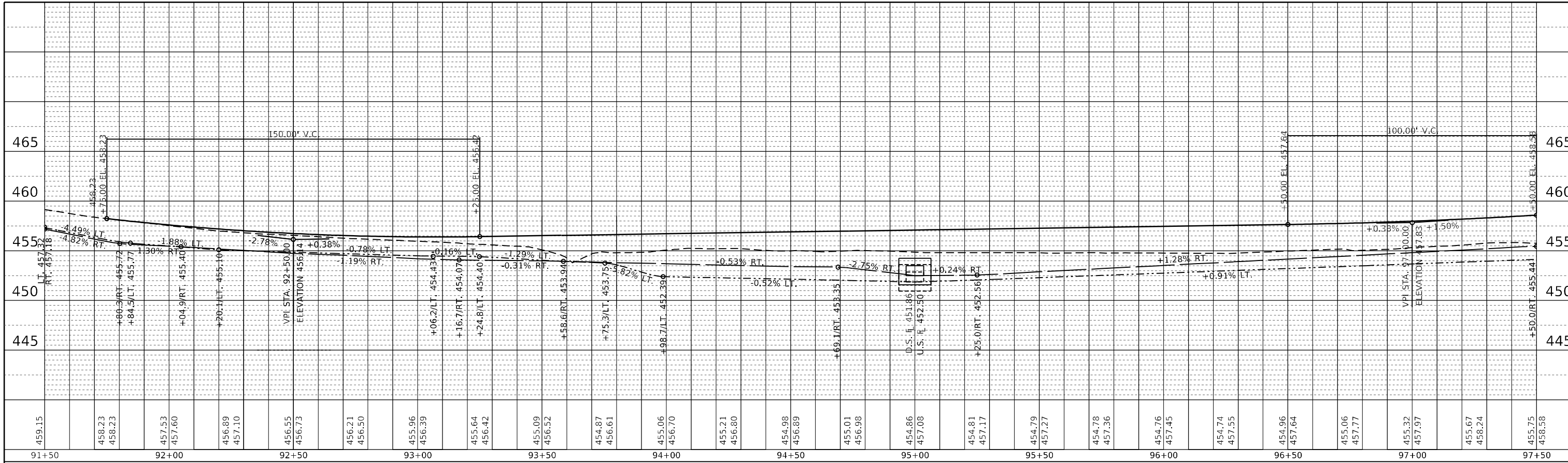
T.R. 363  
 PLAN SHEET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	17
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.	CADD FILE NAME		

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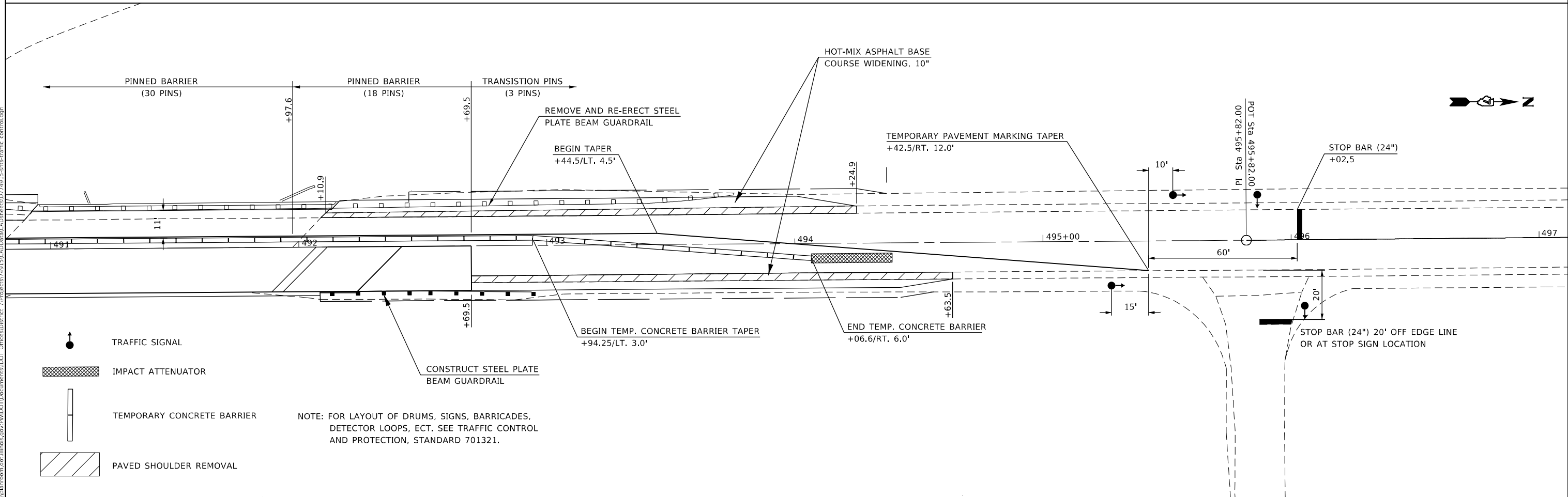
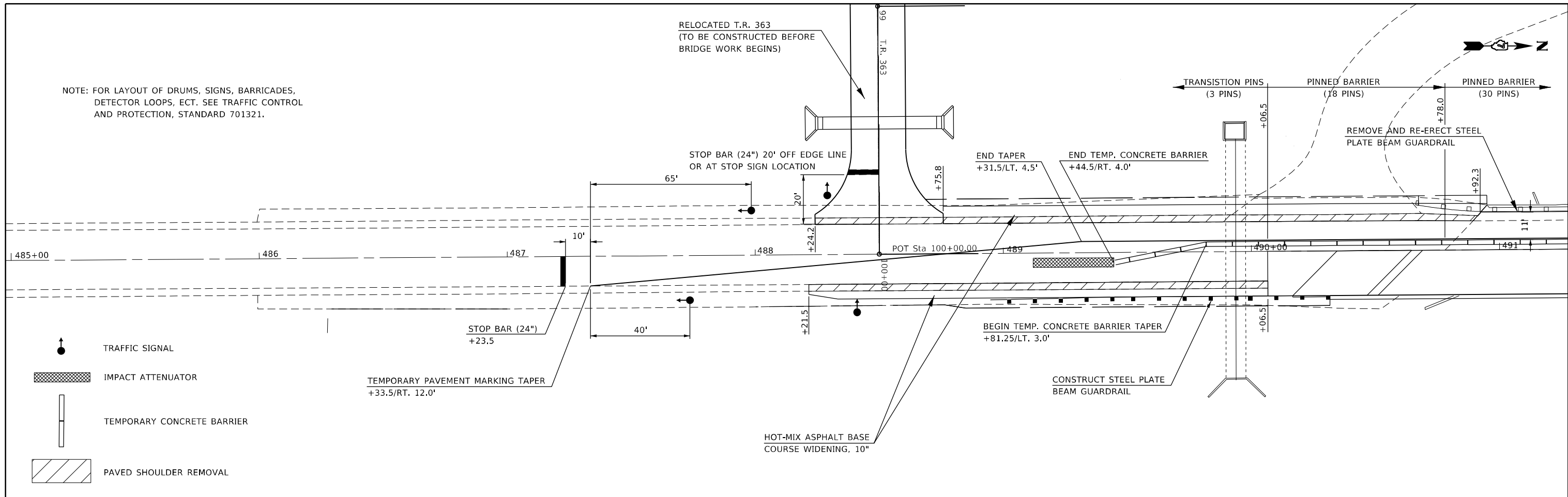
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PLOT DATE = 7/30/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 20H:5V			SHEET 1 OF 1 SHEETS			STA. 91+50.00 TO STA. 100+00.00		
F.A.P. RTE. 332			SECTION 188-1			COUNTY CRAWFORD		
TOTAL SHEETS 83			SHEET NO. 18			CONTRACT NO. 74915		
ILLINOIS FED. AID PROJECT								

T.R. 363  
PROFILE

NOTE: FOR LAYOUT OF DRUMS, SIGNS, BARRICADES, DETECTOR LOOPS, ECT. SEE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.



NOTE: FOR LAYOUT OF DRUMS, SIGNS, BARRICADES, DETECTOR LOOPS, ECT. SEE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

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 PLOT DATE: 7/30/2020

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DATE -	DATE -	REVISED -

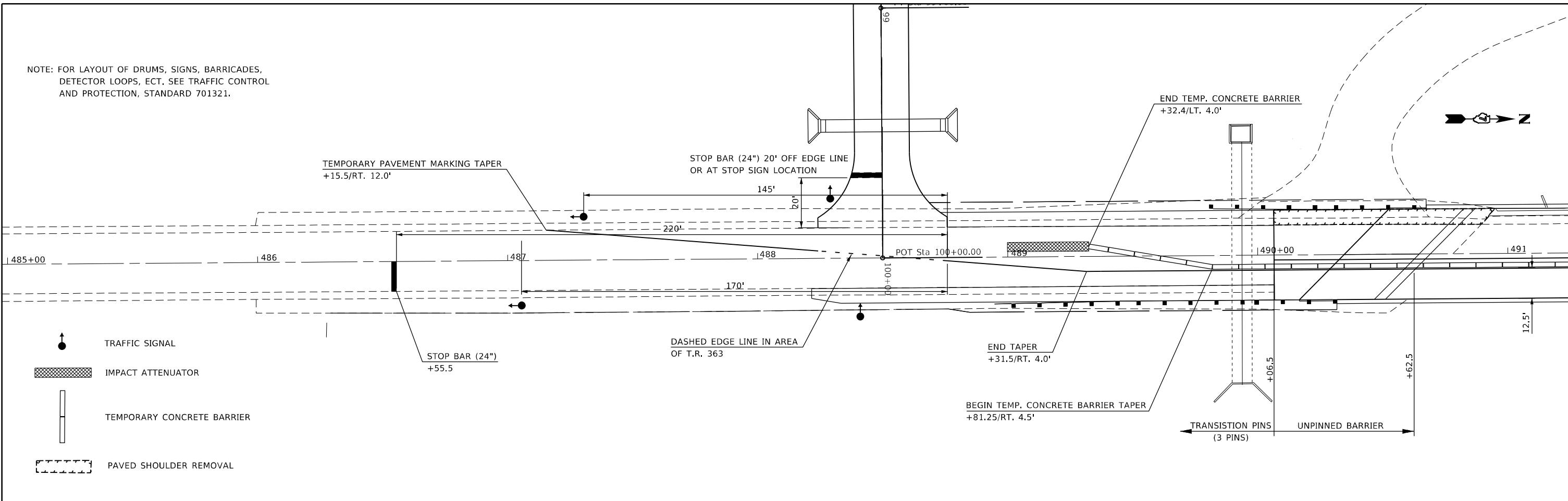
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE I TRAFFIC CONTROL  
S.N. 017-0005**

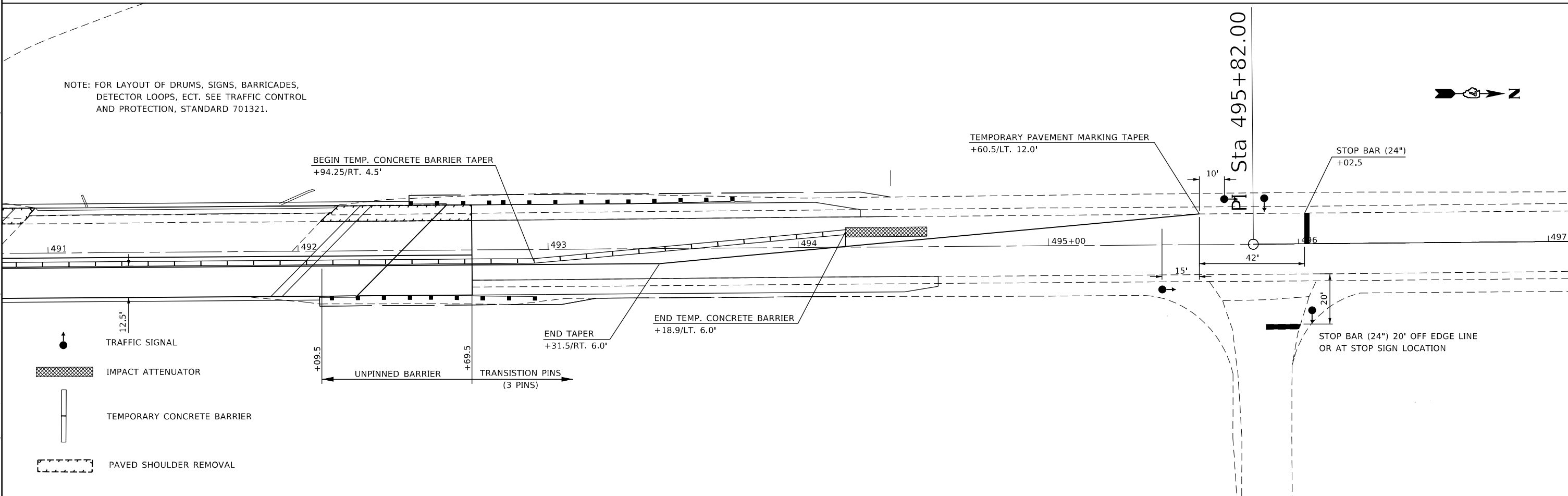
SCALE: 20 SHEET 1 OF 2 SHEETS STA. 485+00.00 TO STA. 497+00.00

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 19
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

NOTE: FOR LAYOUT OF DRUMS, SIGNS, BARRICADES, DETECTOR LOOPS, ECT. SEE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.



NOTE: FOR LAYOUT OF DRUMS, SIGNS, BARRICADES, DETECTOR LOOPS, ECT. SEE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.



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DRAWN -	REVISED -	
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PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

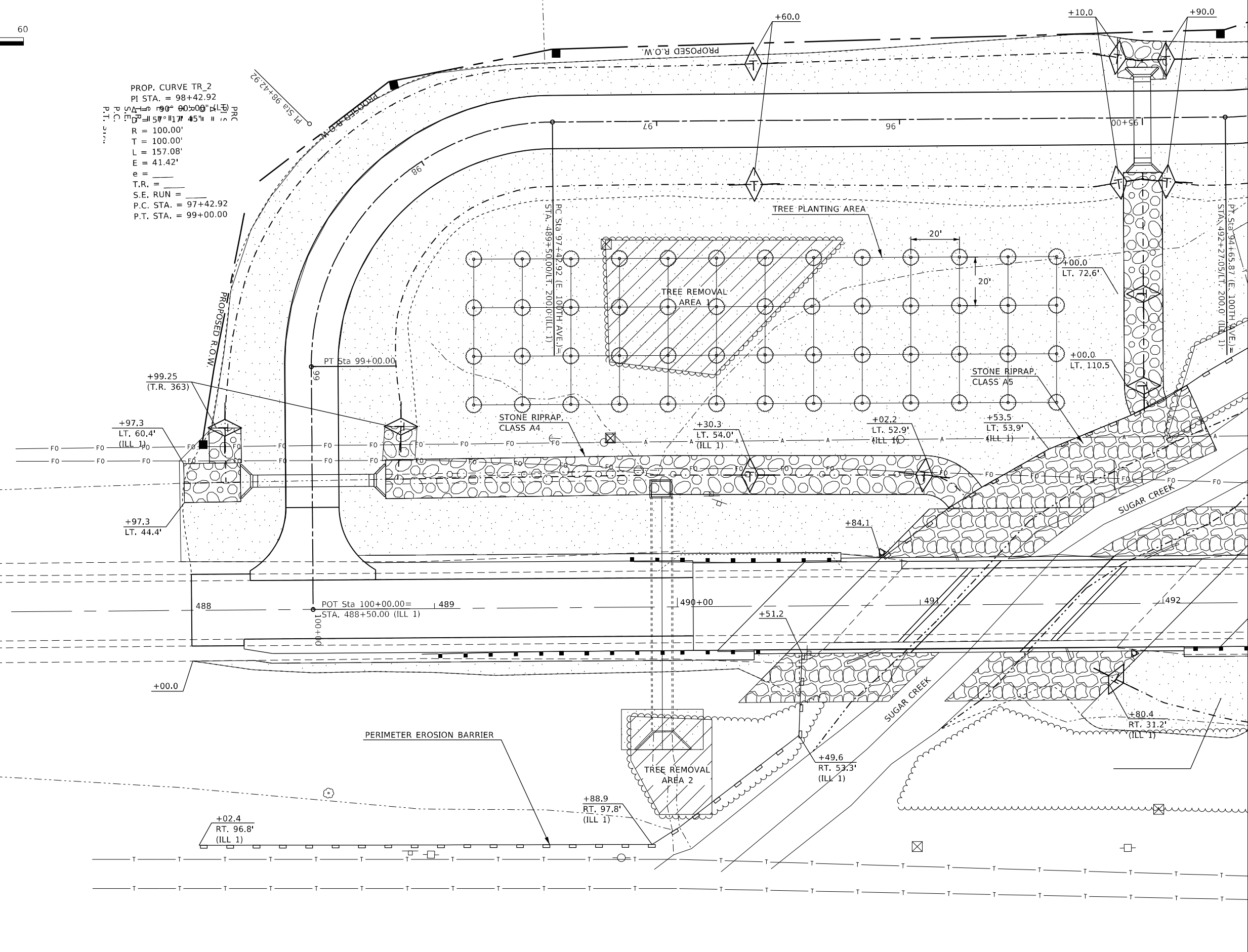
**STAGE II TRAFFIC CONTROL  
S.N. 017-0005**

SCALE: 20 SHEET 2 OF 2 SHEETS STA. 485+00.00 TO STA. 497+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	20
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



PROP. CURVE TR. 2  
 PI STA. = 98+42.92  
 Δ = 90° 00' 00" (ILL 1)  
 S.E. = 57' 11" 45" (ILL 1)  
 R = 100.00'  
 T = 100.00'  
 L = 157.08'  
 E = 41.42'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 97+42.92  
 P.T. STA. = 99+00.00



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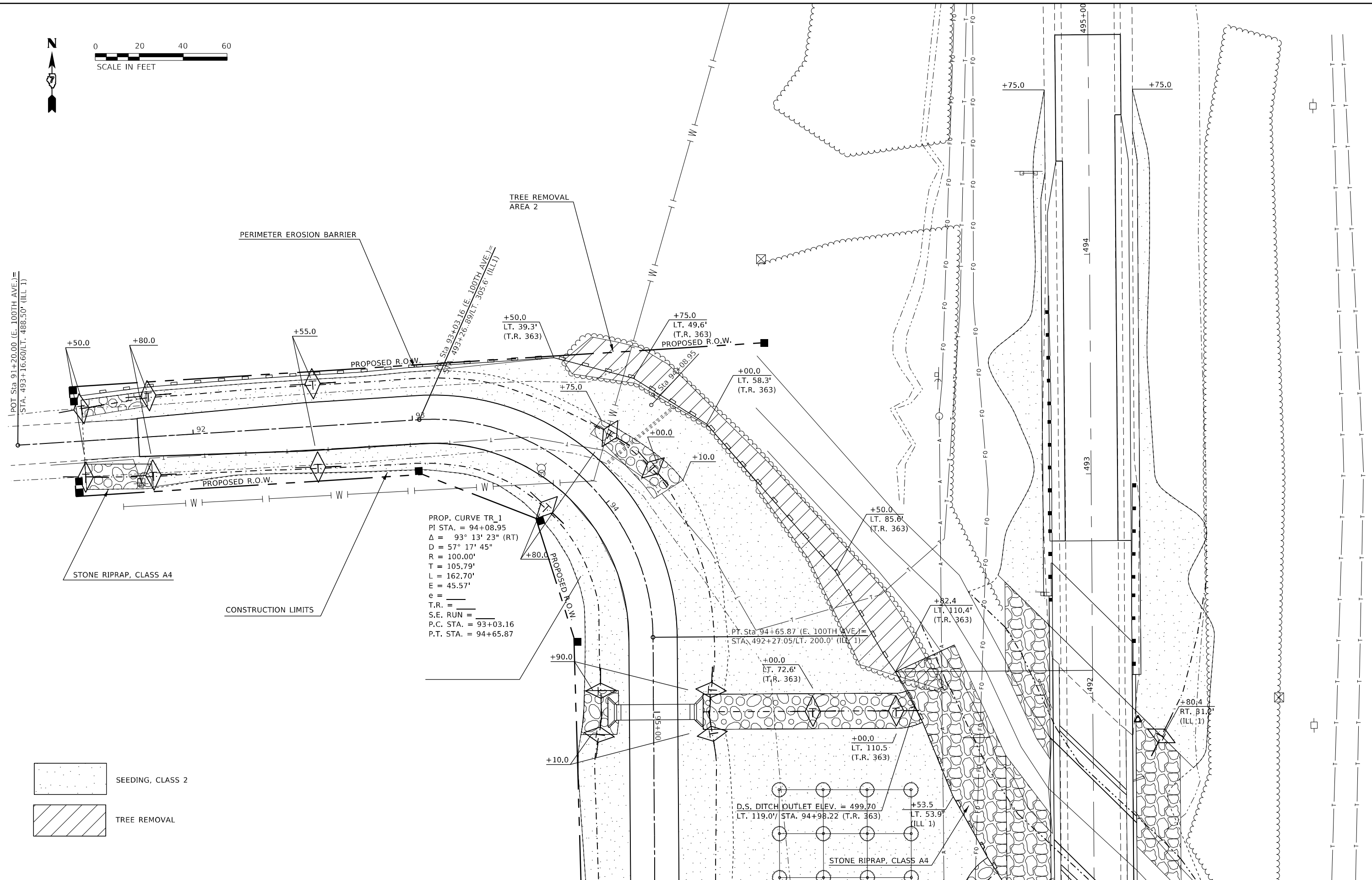
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PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**EROSION CONTROL AND  
 TREE REMOVAL SHEETS**

SCALE: 20 SHEET 1 OF 2 SHEETS STA. 486+00.00 TO STA. 492+00.00

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 21
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



PROP. CURVE TR\_1  
 PI STA. = 94+08.95  
 $\Delta = 93^\circ 13' 23''$  (RT)  
 $D = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 105.79'$   
 $L = 162.70'$   
 $E = 45.57'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 93+03.16$   
 $P.T. STA. = 94+65.87$

-  SEEDING, CLASS 2
-  TREE REMOVAL

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 OFFICE: DISTRICT 7  
 DATE: 7/30/2020

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

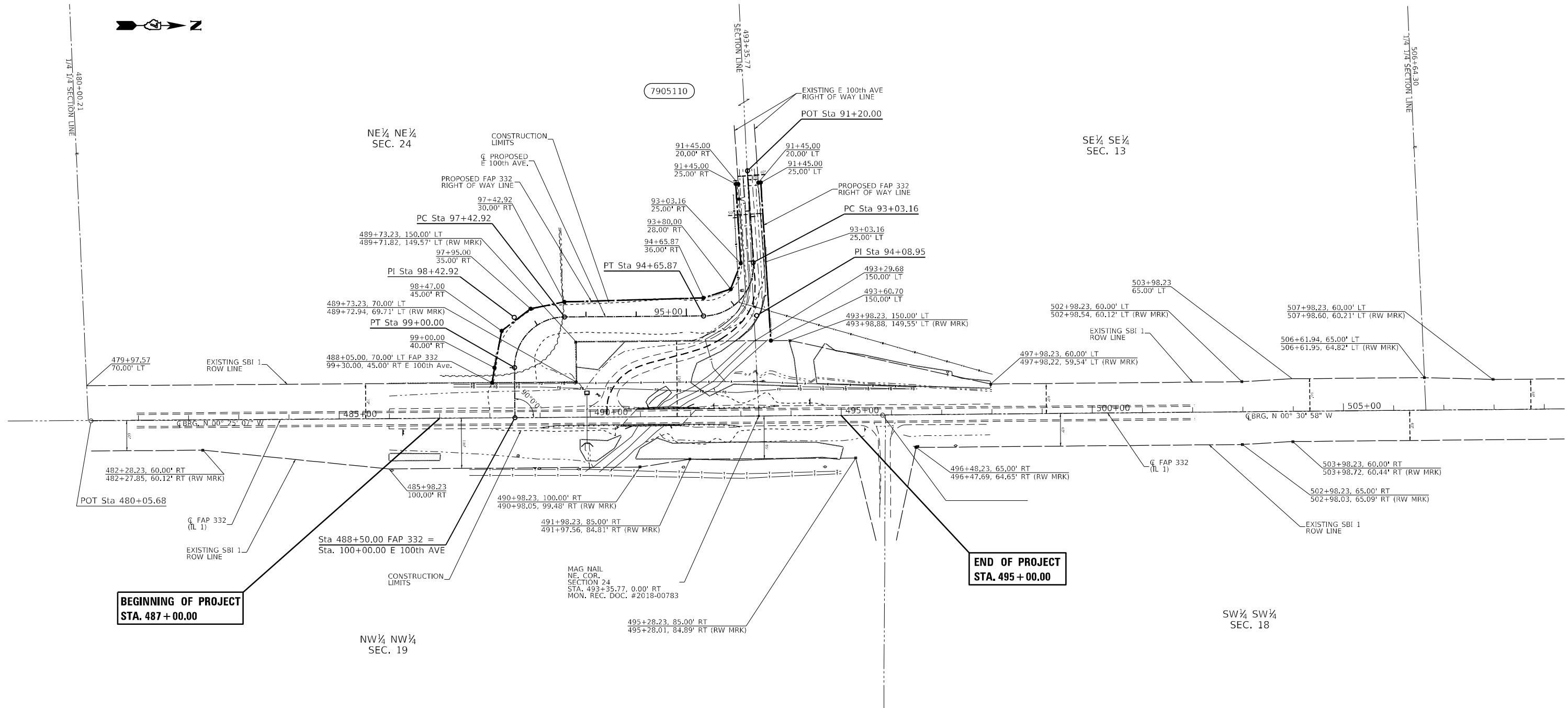
EROSION CONTROL AND  
 TREE REMOVAL SHEETS

USER NAME = steffnmk	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

SCALE: 20	SHEET 2	OF 2 SHEETS	STA. 492+00.00	TO STA. 495+00.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	22
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

# T.5N.-R.12W., 2nd P.M., HONEY CREEK SOUTH TWP.



# T.5N.-R.11W., 2nd P.M., HONEY CREEK 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

PROP. CURVE TR\_2  
 PI STA. = 98+42.92  
 $\Delta = 90^\circ 00' 00''$  (LT)  
 $D = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 100.00'$   
 $L = 157.08'$   
 $E = 41.42'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 P.C. STA. = 97+42.92  
 P.T. STA. = 99+00.00

PROP. CURVE TR\_1  
 PI STA. = 94+08.95  
 $\Delta = 93^\circ 13' 23''$  (RT)  
 $D = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 105.79'$   
 $L = 162.70'$   
 $E = 45.57'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 P.C. STA. = 93+03.16  
 P.T. STA. = 94+65.87

MAG NAIL  
 NE. COR.  
 SECTION 24  
 STA. 493+35.77, 0.00' RT  
 MON. REC. DOC. #2018-00783

PARCEL	OWNER	AREA TAKEN		EASEMENT	REM. AREA	INST	RECORDED				EXCESS		
		ADD	EXIST				MICRO FILM NO.	DATE	BOOK	PAGE	AREA	SOLD	
7905110	KARL E. NEWELL, JR. AND CECILIE A. NEWELL, TRUSTEES	1.553 AC.	0.000 AC.		74.932 AC.								

NOTE:  
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(97)  
 TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

USER NAME = steffemk	DESIGNED - JMD	REVISED -
DRAWN - JMD	REVISED -	
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PLOT DATE = 7/30/2020	DATE - 08/28/2019	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS			
PROJECT NHPP CVIG(902)	JOB NO. R-97-005-19		
SCALE: 1" = 100'	SHEET 1 OF 1 SHEETS	STA. 480+00.00	TO STA. 508+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18 B-1	CRAWFORD	83	22A
CONTRACT NO. 74915				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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 OFFICE: DISTRICT 7

Benchmark #1: Cut "c" on the southeast corner of structure 017-0005, Elev. 463.154

S.N. 017-0005 was built in 1921 as part of SBI-1 at Sta. 491+38.00. In 1963, under SBI-1 Section 18B-1, the superstructure was replaced. Existing structure is a two span continuous C.I.P. concrete deck with two C.I.P. concrete approach spans. The structure is 120'-1" bk to bk approaches, 36'-4" out to out and has a 45° left forward skew. Existing structure is to be removed and replaced utilizing stage construction to maintain one lane of traffic during construction.

No salvage.

Note: See Sheet 2 of 28 for Section A-A.

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

**DESIGN SPECIFICATIONS**  
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.

**DESIGN STRESSES**  
**FIELD UNITS**

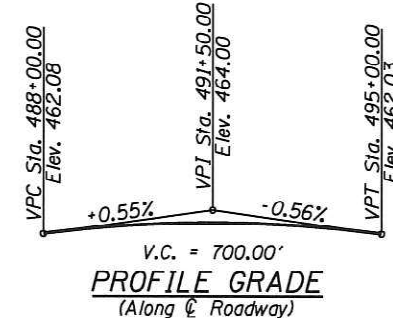
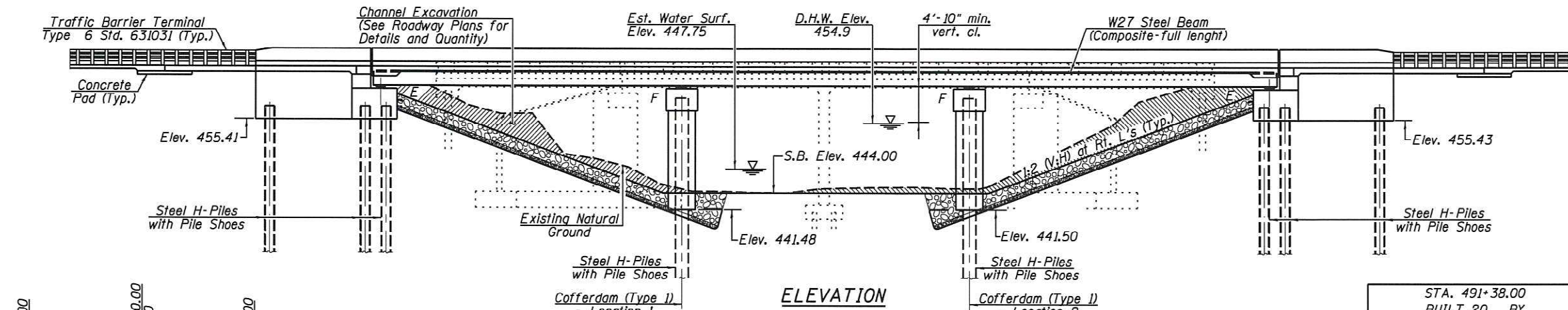
$f'_c = 3,500$  psi  
 $f'_c = 4,000$  psi (Superstructure)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50)

**SEISMIC DATA**

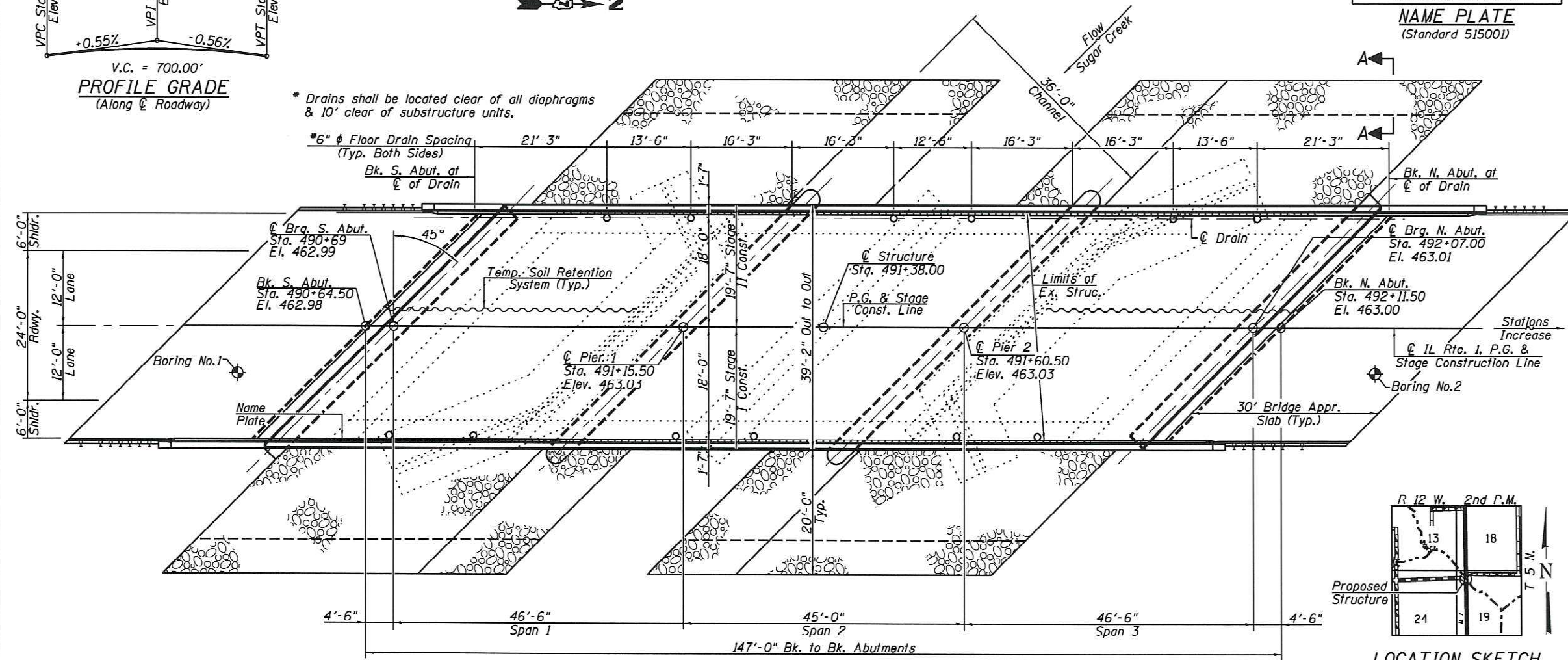
Seismic Performance Zone (SPZ) = 2  
Design Spectral Acceleration at 1.0 sec. ( $S_D1$ ) = 0.214g  
Design Spectral Acceleration at 0.2 sec. ( $S_Ds$ ) = 0.489g  
Soil Site Class = D

**INDEX OF SHEETS**

1. General Plan & Elevation
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier
- 5.-7. Top of Slab Elevations
8. Top of South Approach Slab Elevations
9. Top of North Approach Slab Elevations
10. Superstructure
11. Superstructure Details
12. Preformed Joint Strip Seal
- 13.-14. Bridge Approach Slab Details
15. Structural Steel
16. Structural Steel Details
17. Bearing Details
18. South Abutment
19. North Abutment
20. Abutment Details
21. Pier 1
22. Pier 2
23. HP Pile Details
24. Bar Splicer Assembly
25. Sheet Intentionally Left Blank
26. Concrete Parapet Slip Forming Option
- 27.-28. Boring Logs

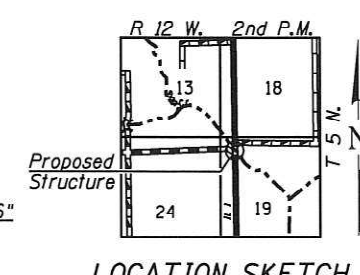


STA. 491+38.00  
BUILT 20 BY  
STATE OF ILLINOIS  
FAP RTE. 332 SEC. 18B-1  
LOADING HL 93  
STR. NO. 017-0034  
**NAME PLATE**  
(Standard 515001)



Mark A. Henderson 1/27/2020  
Expiration Date 11/30/2020

APPROVED  
For Structural Adequacy Only  
Sh. Carl Pappas  
Engineer of Bridges & Structures



**GENERAL PLAN & ELEVATION**  
**ILLINOIS ROUTE 1 OVER SUGAR CREEK**  
F.A.P. RTE. 332 - SEC. 18B-1  
CRAWFORD COUNTY  
STA. 491+38.00  
STRUCTURE NO. 017-0034



USER NAME =	DESIGNED - GBR	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
STRUCTURE NO. 017-0034  
SHEET NO. 1 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	23
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
 Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 1/8 in.  $\phi$ , holes 5/16 in.  $\phi$ , unless otherwise noted.  
 Calculated weight of Structural Steel = 76,080 lbs. (M270 Grade 50)  
 = 10,500 lbs (M270 Grade 36)  
 No field welding is permitted except as specified in the contract documents.  
 If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, 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.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.  
 Concrete Sealer shall be applied to the designated areas of the abutments.  
 The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1.  
 The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.  
 The finishing machine rails shall be placed on the top flanges of the exterior beams.

**WATERWAY INFORMATION**

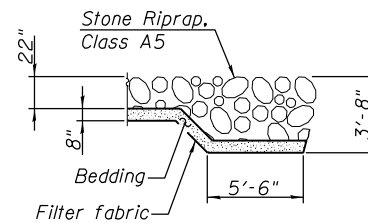
		Prop. Low Grade Elev. 460.3 @ Sta. 485+50							
Drainage Area = 8.4 sq. mi.		Exist. Low Grade Elev. 460.3 @ Sta. 485+50							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
	10	2100	384	489	453.6	0.2	0.2	453.8	453.8
Design	50	3450	431	568	454.9	0.5	0.3	455.4	455.2
Base	100	4060	448	598	455.2	0.8	0.5	456.0	455.7
Overtopping									
Max. Calc.	500	5570	477	652	455.9	1.4	0.7	457.3	456.6

**DESIGN SCOUR ELEVATION TABLE**

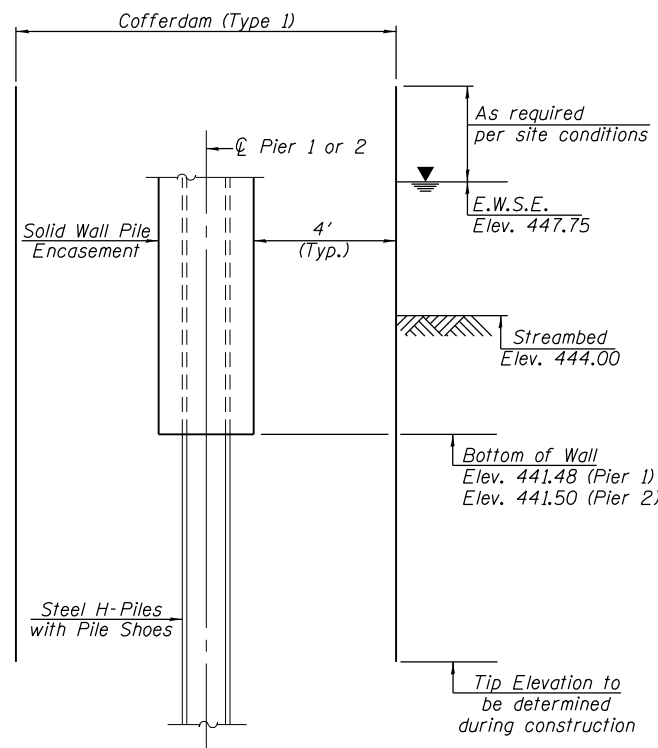
Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	455.41	438.00	437.25	455.43

**TOTAL BILL OF MATERIAL**

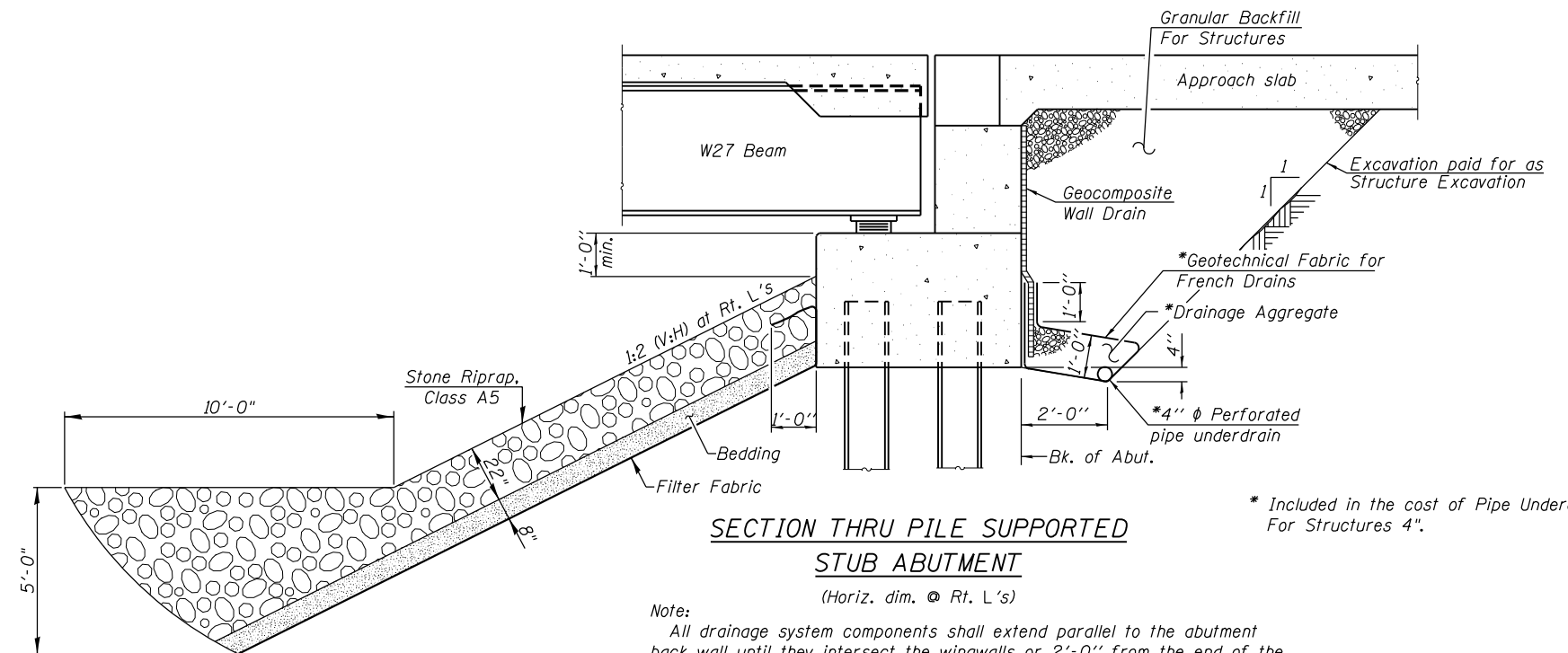
ITEM	UNIT	SUPER	SUB	TOTAL
Floor Drains	Each	12		12
Stud Shear Connectors	Each	3924		3924
Preformed Joint Strip Seal	Foot	106		106
Granular Backfill For Structures	Cu. Yd.	122.2		122.2
Stone Riprap, Class A5	Ton		1296	1296
Filter Fabric	Sq. Yd.		962	962
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		314	314
Concrete Structures	Cu. Yd.		373.8	373.8
Concrete Superstructure	Cu. Yd.	189.9		189.9
Bridge Deck Grooving	Sq. Yd.	761		761
Concrete Encasement	Cu. Yd.		9.0	9.0
Protective Coat	Sq. Yd.	954		954
Reinforcement Bars, Epoxy Coated	Pound	82550	33590	116140
Bar Splicers	Each	652	230	882
Furnishing Steel Piles HP 12x53	Foot		1333	1333
Furnishing Steel Piles HP 14x89	Foot		1370	1370
Driving Piles	Foot		2703	2703
Test Pile Steel HP 12x53	Each		1	1
Pile Shoes	Each		46	46
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		67.0	67.0
Pipe Underdrain for Structures 4"	Foot		140	140
Furnishing and Erecting Structural Steel	L. Sum	1		1
Cofferdam (Type 1) - Location 1	Each		1	1
Cofferdam (Type 1) - Location 2	Each		1	1
Temporary Soil Retention System	Sq. Ft.		1300	1300
Anchor Bolts, 3/4"	Each	48		48
Concrete Sealer	Sq. Ft.		1140	1140
Elastomeric Bearing Assembly Type I	Each	12		12
Concrete Superstructure (Approach Slab)	Cu. Yd.	104.7		104.7



**SECTION A-A**



**COFFERDAM DETAIL**



**SECTION THRU PILE SUPPORTED STUB ABUTMENT**

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

Note:

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

\* Included in the cost of Pipe Underdrains For Structures 4".



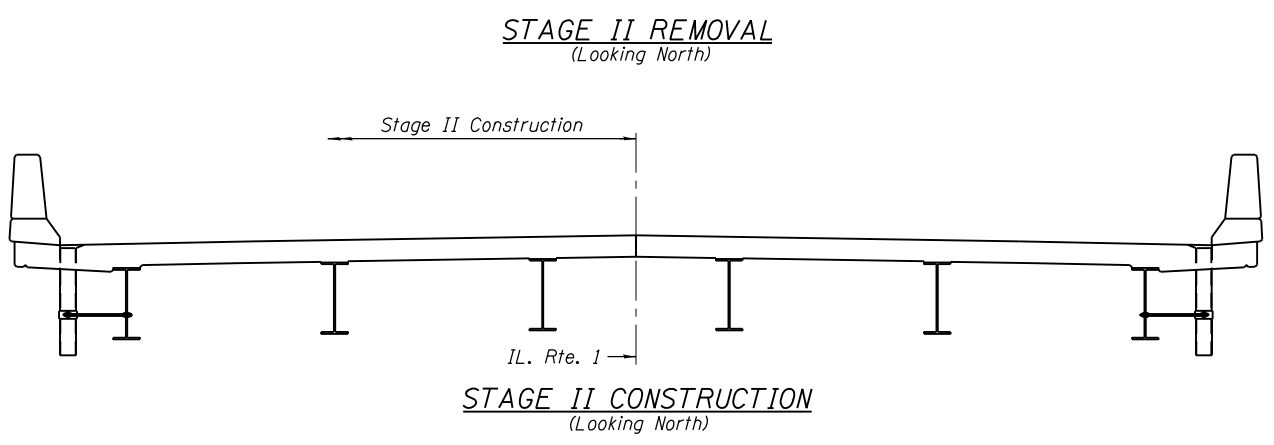
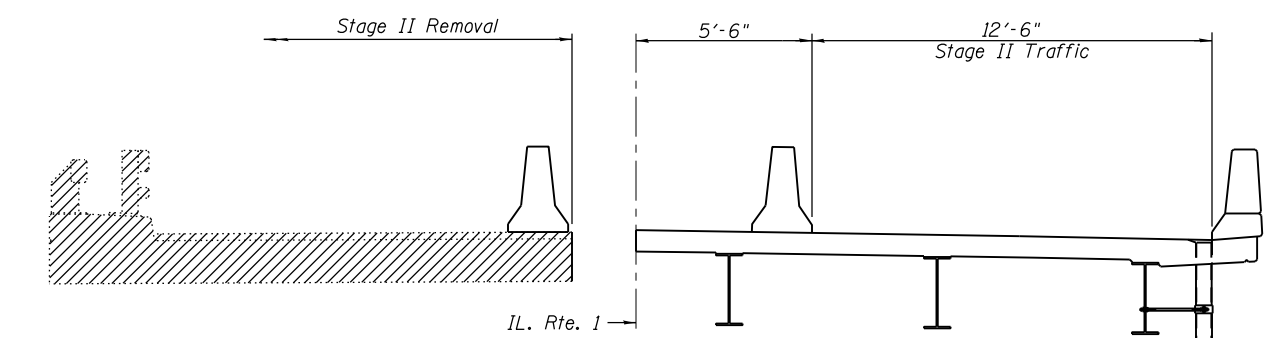
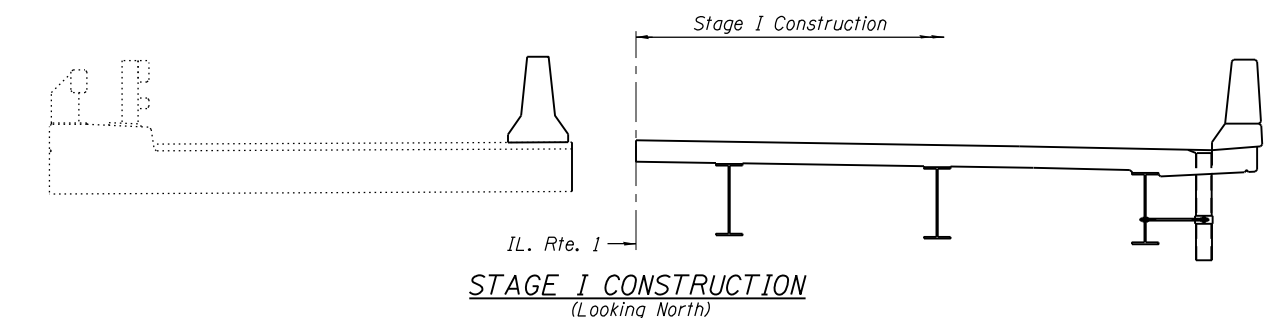
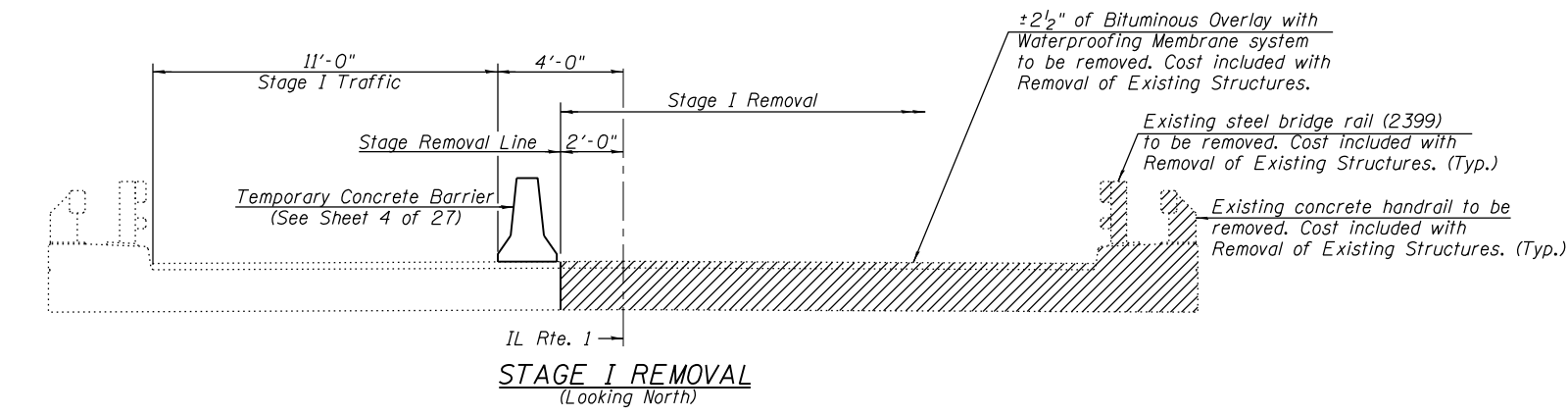
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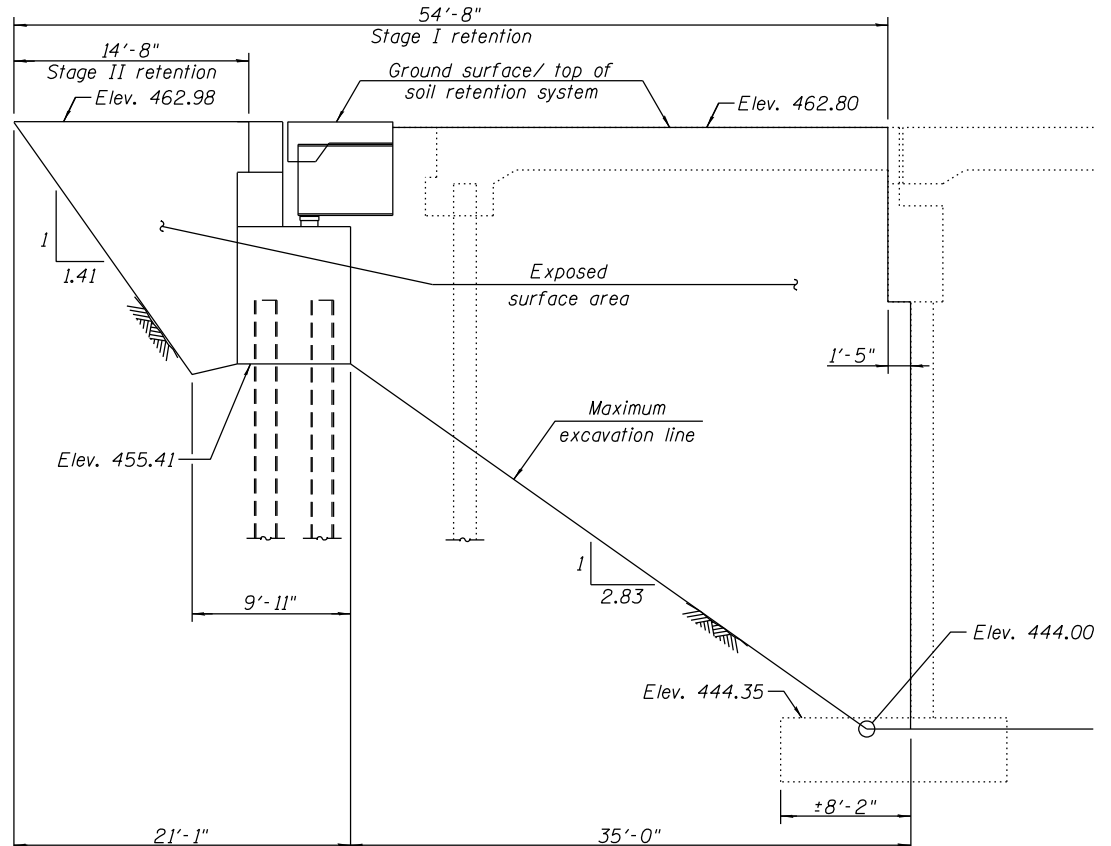
**GENERAL DATA  
STRUCTURE NO. 017-0034**

SHEET NO. 2 OF 28 SHEETS

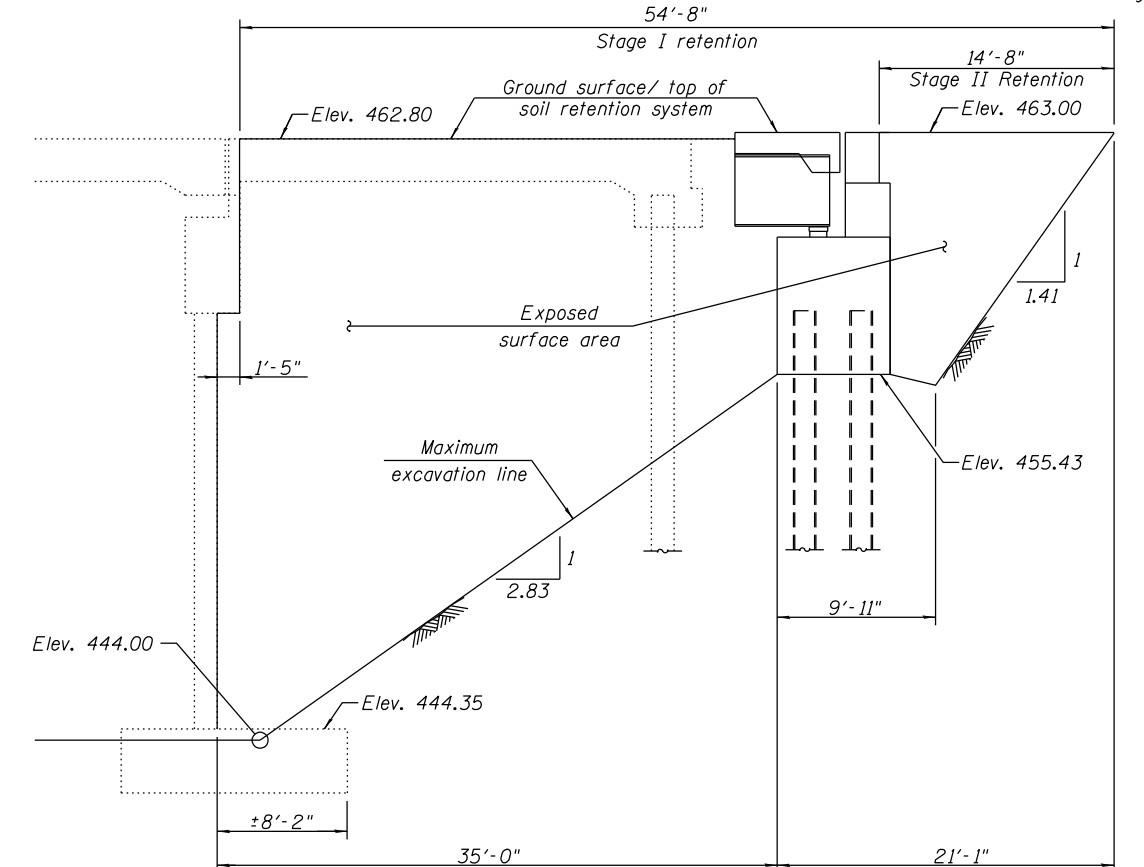
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	24
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



Notes:  
 For quantity of Temporary Concrete Barrier, see roadway plans.  
 Hatched areas indicate Removal of Existing Structures.  
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.  
 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.



Estimated Exposed Area to be Retained = Stage I = 582 sq. ft.  
 Stage II = 68 sq. ft.



Estimated Exposed Area to be Retained = Stage I 582 sq. ft.  
 Stage II = 68 sq. ft.



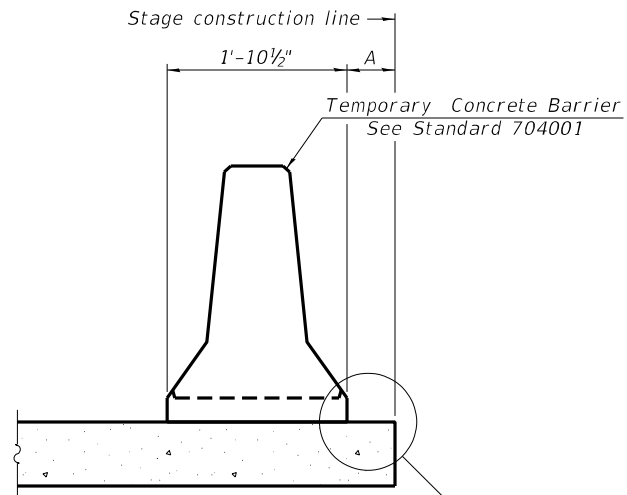
USER NAME = _____	DESIGNED - GBR	REVISED - _____
CHECKED - MAH	REVISED - _____	
PLOT SCALE = _____	DRAWN - JRP	REVISED - _____
PLOT DATE = _____	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
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STAGE CONSTRUCTION DETAILS  
 STRUCTURE NO. 017-0034

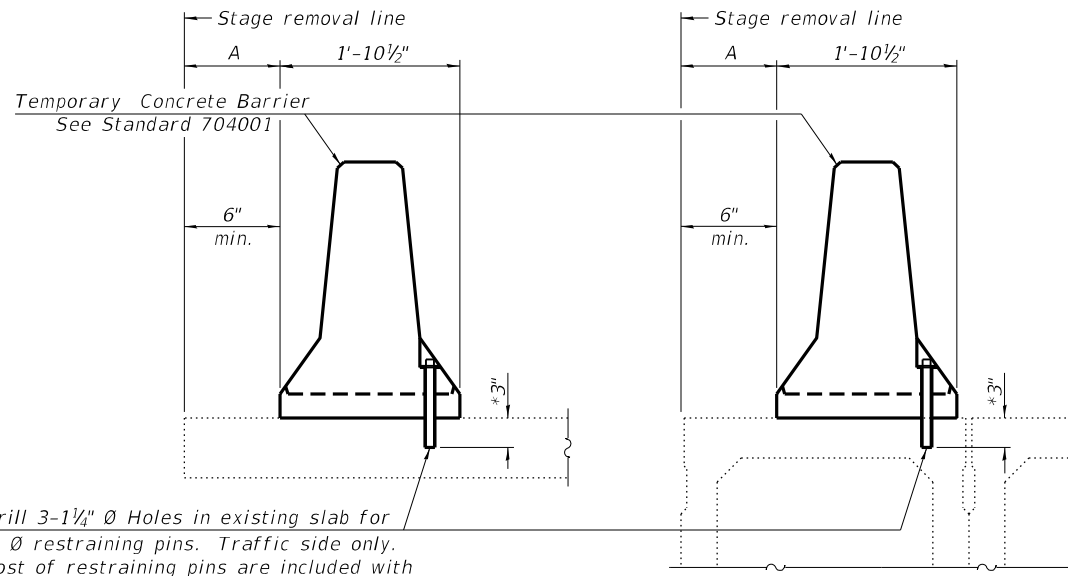
SHEET NO. 3 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	25
CONTRACT NO. 74915				
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

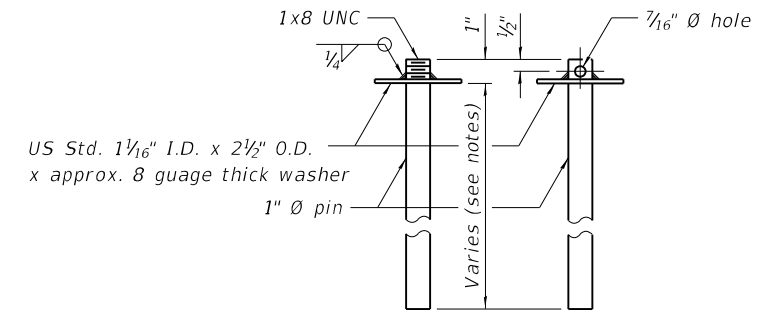


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

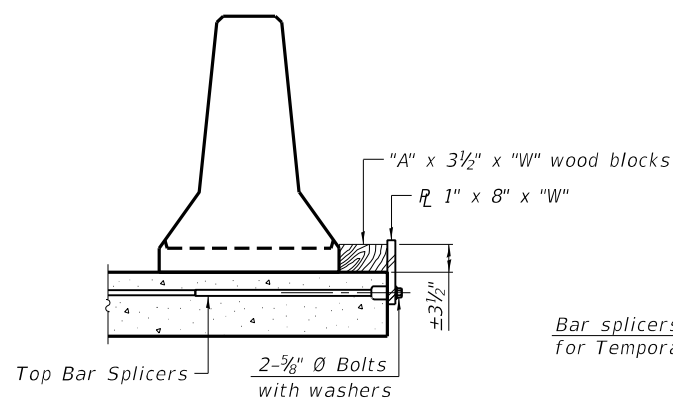
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM



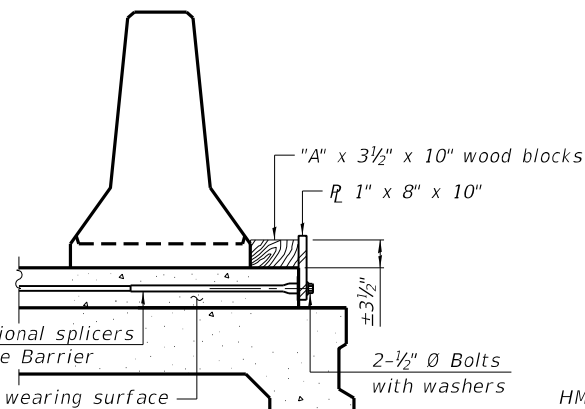
RESTRAINING PIN

SECTIONS THRU SLAB OR DECK BEAM

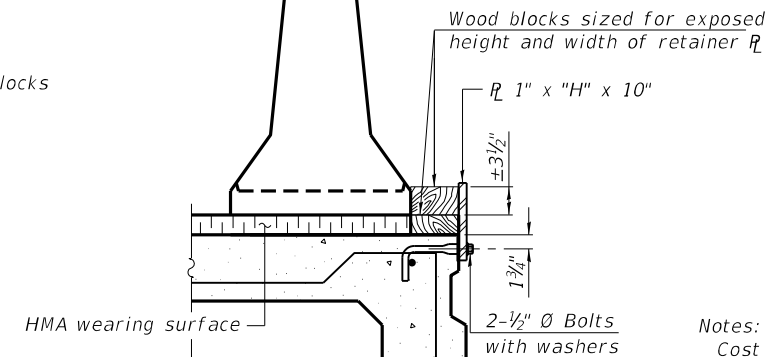


DETAIL I

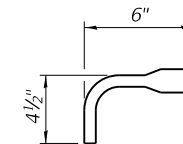
Bar splicers and additional splicers for Temporary Concrete Barrier



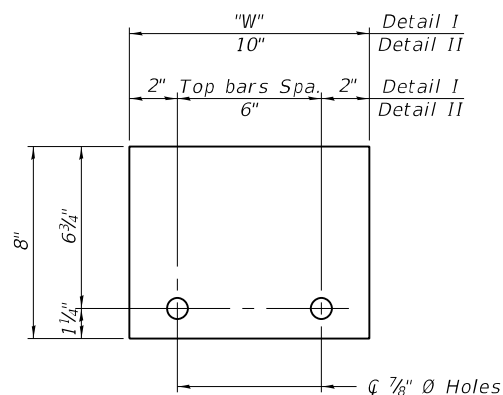
DETAIL II



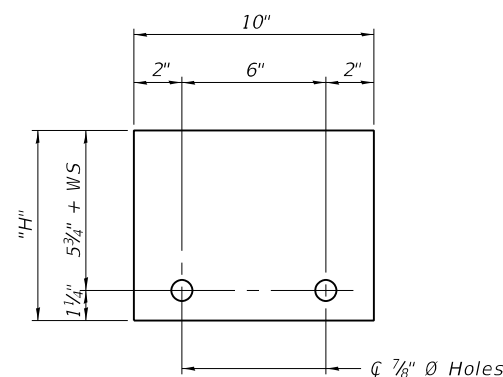
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:

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

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

R-27 2-17-2017



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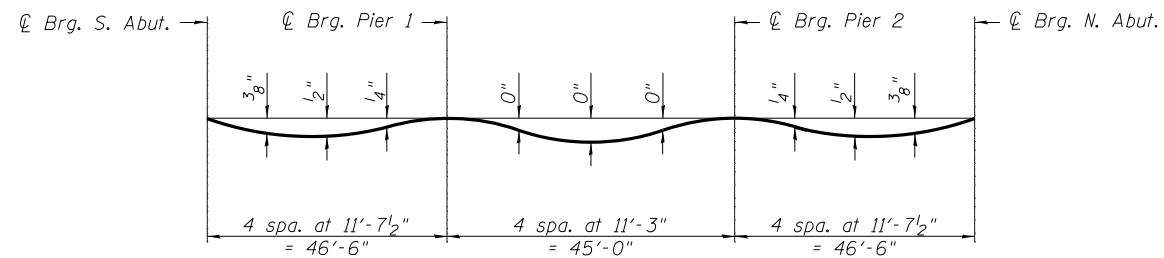
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 017-0034

SHEET NO. 4 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	26
CONTRACT NO. 74915				

ILLINOIS FED. AID PROJECT

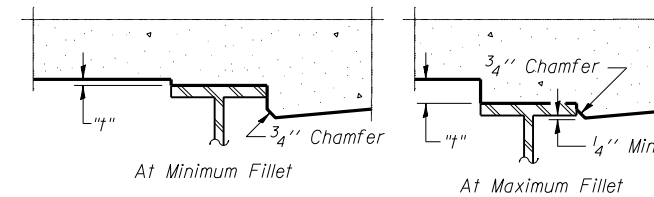


**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only.)

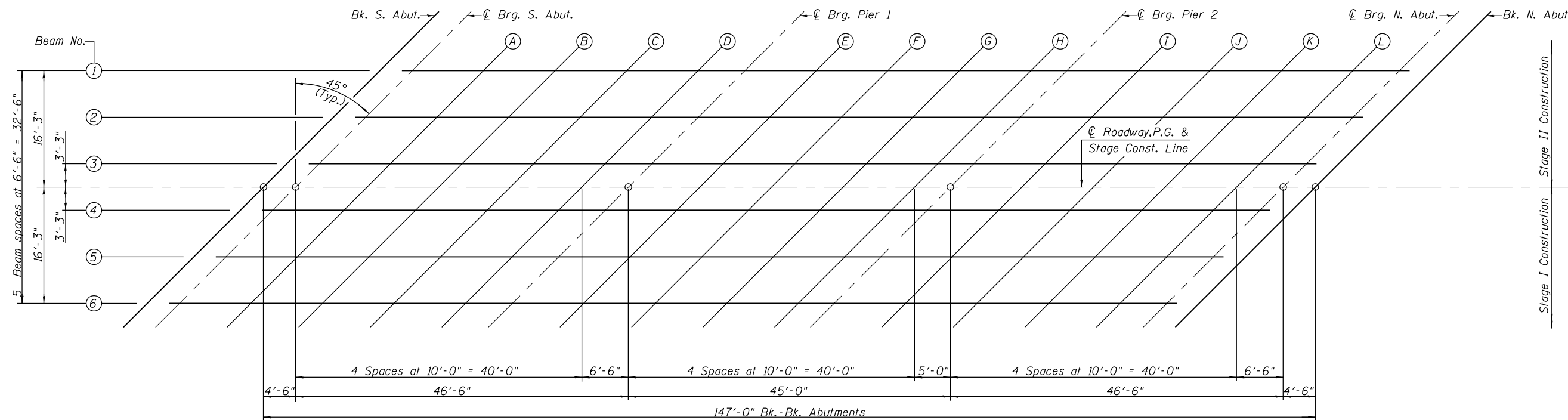
**Note:**

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 sheets 6 & 7 of 28.



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 sheets 6 & 7 of 28, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



**PLAN**



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PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 017-0034**

SHEET NO. 5 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	27
CONTRACT NO. 74915				

ILLINOIS FED. AID PROJECT

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	490+80.75	-16.25	462.72	462.72
☉ Brg. S. Abut.	490+85.25	-16.25	462.73	462.73
A	490+95.25	-16.25	462.74	462.76
B	491+05.25	-16.25	462.74	462.78
C	491+15.25	-16.25	462.75	462.78
D	491+25.25	-16.25	462.75	462.77
☉ Brg. Pier 1	491+31.75	-16.25	462.76	462.76
E	491+41.75	-16.25	462.76	462.76
F	491+51.75	-16.25	462.76	462.76
G	491+61.75	-16.25	462.76	462.76
H	491+71.75	-16.25	462.75	462.75
☉ Brg. Pier 2	491+76.75	-16.25	462.75	462.75
I	491+86.75	-16.25	462.75	462.76
J	491+96.75	-16.25	462.74	462.77
K	492+06.75	-16.25	462.73	462.77
L	492+16.75	-16.25	462.72	462.74
☉ Brg. N. Abut.	492+23.25	-16.25	462.71	462.71
Bk. N. Abut.	492+27.75	-16.25	462.71	462.71

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	490+74.25	-9.75	462.84	462.84
☉ Brg. S. Abut.	490+78.75	-9.75	462.85	462.85
A	490+88.75	-9.75	462.86	462.88
B	490+98.75	-9.75	462.86	462.90
C	491+08.75	-9.75	462.87	462.90
D	491+18.75	-9.75	462.88	462.89
☉ Brg. Pier 1	491+25.25	-9.75	462.88	462.88
E	491+35.25	-9.75	462.88	462.88
F	491+45.25	-9.75	462.88	462.88
G	491+55.25	-9.75	462.88	462.88
H	491+65.25	-9.75	462.88	462.88
☉ Brg. Pier 2	491+70.25	-9.75	462.88	462.88
I	491+80.25	-9.75	462.87	462.89
J	491+90.25	-9.75	462.87	462.90
K	492+00.25	-9.75	462.86	462.90
L	492+10.25	-9.75	462.85	462.87
☉ Brg. N. Abut.	492+16.75	-9.75	462.84	462.84
Bk. N. Abut.	492+21.25	-9.75	462.84	462.84

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	490+67.75	-3.25	462.93	462.93
☉ Brg. S. Abut.	490+72.25	-3.25	462.94	462.94
A	490+82.25	-3.25	462.95	462.98
B	490+92.25	-3.25	462.96	463.00
C	491+02.25	-3.25	462.97	463.00
D	491+12.25	-3.25	462.97	462.99
☉ Brg. Pier 1	491+18.75	-3.25	462.98	462.98
E	491+28.75	-3.25	462.98	462.98
F	491+38.75	-3.25	462.98	462.98
G	491+48.75	-3.25	462.98	462.98
H	491+58.75	-3.25	462.98	462.98
☉ Brg. Pier 2	491+63.75	-3.25	462.98	462.98
I	491+73.75	-3.25	462.98	463.00
J	491+83.75	-3.25	462.97	463.01
K	491+93.75	-3.25	462.97	463.00
L	492+03.75	-3.25	462.96	462.98
☉ Brg. N. Abut.	492+10.25	-3.25	462.95	462.95
Bk. N. Abut.	492+14.75	-3.25	462.95	462.95

☉ ROADWAY, P.G. & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	490+64.50	0.00	462.98	462.98
☉ Brg. S. Abut.	490+69.00	0.00	462.99	462.99
A	490+79.00	0.00	463.00	463.02
B	490+89.00	0.00	463.01	463.05
C	490+99.00	0.00	463.02	463.05
D	491+09.00	0.00	463.02	463.03
☉ Brg. Pier 1	491+15.50	0.00	463.03	463.03
E	491+25.50	0.00	463.03	463.03
F	491+35.50	0.00	463.03	463.03
G	491+45.50	0.00	463.03	463.03
H	491+55.50	0.00	463.03	463.03
☉ Brg. Pier 2	491+60.50	0.00	463.03	463.03
I	491+70.50	0.00	463.03	463.05
J	491+80.50	0.00	463.03	463.06
K	491+90.50	0.00	463.02	463.06
L	492+00.50	0.00	463.01	463.03
☉ Brg. N. Abut.	492+07.00	0.00	463.01	463.01
Bk. N. Abut.	492+11.50	0.00	463.00	463.00

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	490+61.25	3.25	462.93	462.93
☉ Brg. S. Abut.	490+65.75	3.25	462.93	462.93
A	490+75.75	3.25	462.94	462.97
B	490+85.75	3.25	462.95	462.99
C	490+95.75	3.25	462.96	462.99
D	491+05.75	3.25	462.97	462.98
☉ Brg. Pier 1	491+12.25	3.25	462.97	462.97
E	491+22.25	3.25	462.98	462.98
F	491+32.25	3.25	462.98	462.98
G	491+42.25	3.25	462.98	462.98
H	491+52.25	3.25	462.98	462.98
☉ Brg. Pier 2	491+57.25	3.25	462.98	462.98
I	491+67.25	3.25	462.98	463.00
J	491+77.25	3.25	462.98	463.01
K	491+87.25	3.25	462.97	463.01
L	491+97.25	3.25	462.96	462.98
☉ Brg. N. Abut.	492+03.75	3.25	462.96	462.96
Bk. N. Abut.	492+08.25	3.25	462.95	462.95



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 017-0034

SHEET NO. 6 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	28
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	490+54.75	9.75	462.81	462.81
☉ Brg. S. Abut.	490+59.25	9.75	462.82	462.82
A	490+69.25	9.75	462.83	462.86
B	490+79.25	9.75	462.85	462.88
C	490+89.25	9.75	462.86	462.89
D	490+99.25	9.75	462.86	462.88
☉ Brg. Pier 1	491+05.75	9.75	462.87	462.87
E	491+15.75	9.75	462.87	462.87
F	491+25.75	9.75	462.88	462.88
G	491+35.75	9.75	462.88	462.88
H	491+45.75	9.75	462.88	462.88
☉ Brg. Pier 2	491+50.75	9.75	462.88	462.88
I	491+60.75	9.75	462.88	462.90
J	491+70.75	9.75	462.88	462.91
K	491+80.75	9.75	462.87	462.91
L	491+90.75	9.75	462.87	462.89
☉ Brg. N. Abut.	491+97.25	9.75	462.86	462.86
Bk. N. Abut.	492+01.75	9.75	462.86	462.86

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	490+48.25	16.25	462.68	462.68
☉ Brg. S. Abut.	490+52.75	16.25	462.69	462.69
A	490+62.75	16.25	462.70	462.73
B	490+72.75	16.25	462.71	462.75
C	490+82.75	16.25	462.73	462.76
D	490+92.75	16.25	462.74	462.75
☉ Brg. Pier 1	490+99.25	16.25	462.74	462.74
E	491+09.25	16.25	462.75	462.75
F	491+19.25	16.25	462.75	462.75
G	491+29.25	16.25	462.76	462.75
H	491+39.25	16.25	462.76	462.75
☉ Brg. Pier 2	491+44.25	16.25	462.76	462.76
I	491+54.25	16.25	462.76	462.78
J	491+64.25	16.25	462.76	462.79
K	491+74.25	16.25	462.75	462.79
L	491+84.25	16.25	462.75	462.77
☉ Brg. N. Abut.	491+90.75	16.25	462.74	462.74
Bk. N. Abut.	491+95.25	16.25	462.74	462.74



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PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	DATE -	REVISED -

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DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 017-0034

SHEET NO. 7 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74915	

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	490+53.21	-18.00	462.65
A1	490+63.21	-18.00	462.67
A2	490+73.21	-18.00	462.68
N. End of S. Appr. Slab	490+83.21	-18.00	462.69

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	490+47.21	-12.00	462.77
A1	490+57.21	-12.00	462.78
A2	490+67.21	-12.00	462.80
N. End of S. Appr. Slab	490+77.21	-12.00	462.81

CL ROADWAY, P.G. & STAGE CONST. LINE

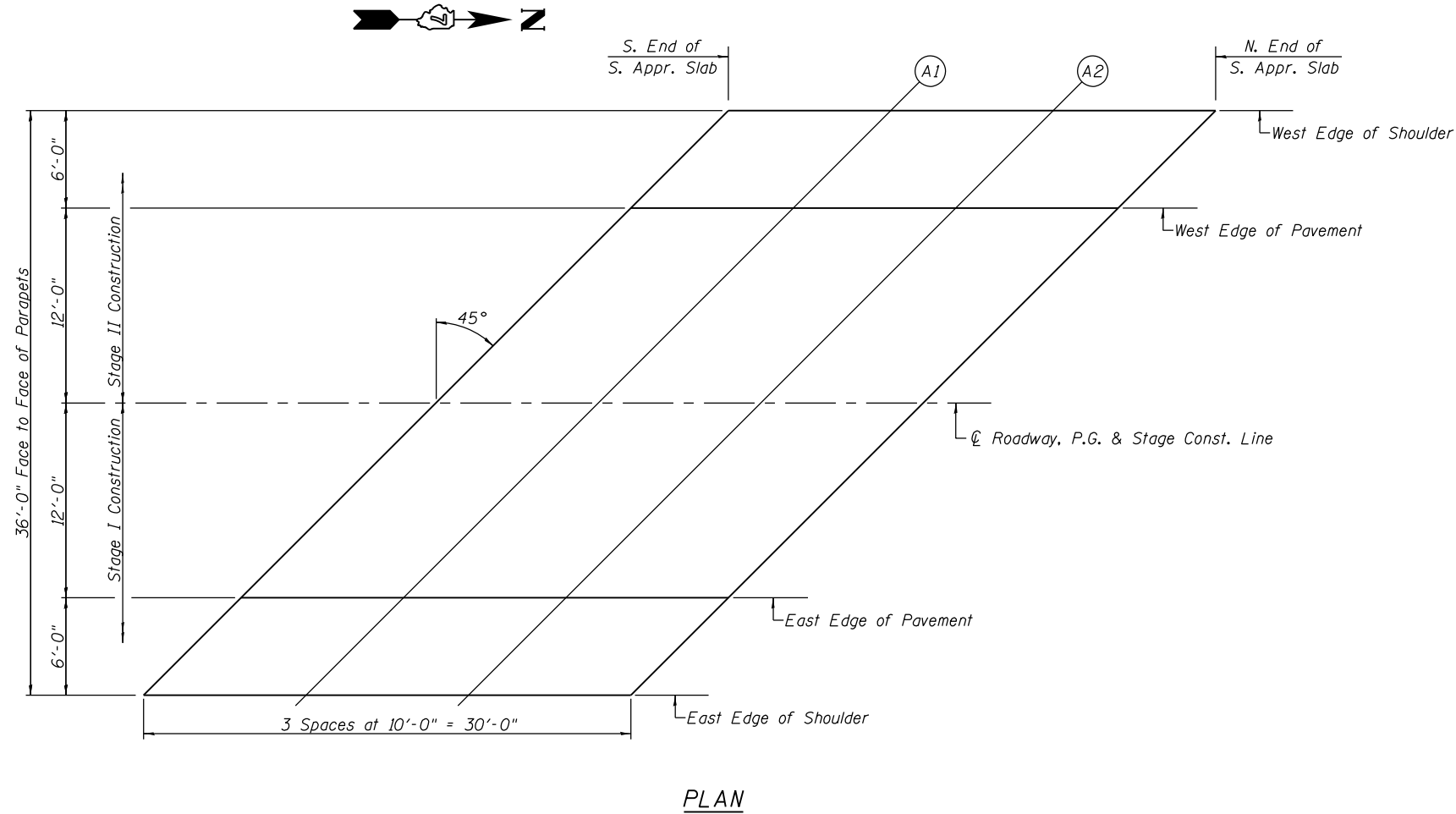
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	490+35.21	0.00	462.94
A1	490+45.21	0.00	465.95
A2	490+55.21	0.00	462.97
N. End of S. Appr. Slab	490+65.21	0.00	462.98

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	490+23.21	12.00	462.73
A1	490+33.21	12.00	462.74
A2	490+43.21	12.00	462.76
N. End of S. Appr. Slab	490+53.21	12.00	462.78

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	490+17.21	18.00	462.59
A1	490+27.21	18.00	462.61
A2	490+37.21	18.00	462.63
N. End of S. Appr. Slab	490+47.21	18.00	462.64



WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	492+28.79	-18.00	462.67
A3	492+38.79	-18.00	462.65
A4	492+48.79	-18.00	462.64
N. End of N. Appr. Slab	492+58.79	-18.00	462.62

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	492+22.79	-12.00	462.80
A3	492+32.79	-12.00	462.79
A4	492+42.79	-12.00	462.77
N. End of N. Appr. Slab	492+52.79	-12.00	462.76

℄ ROADWAY, P.G. & CONST. LINE

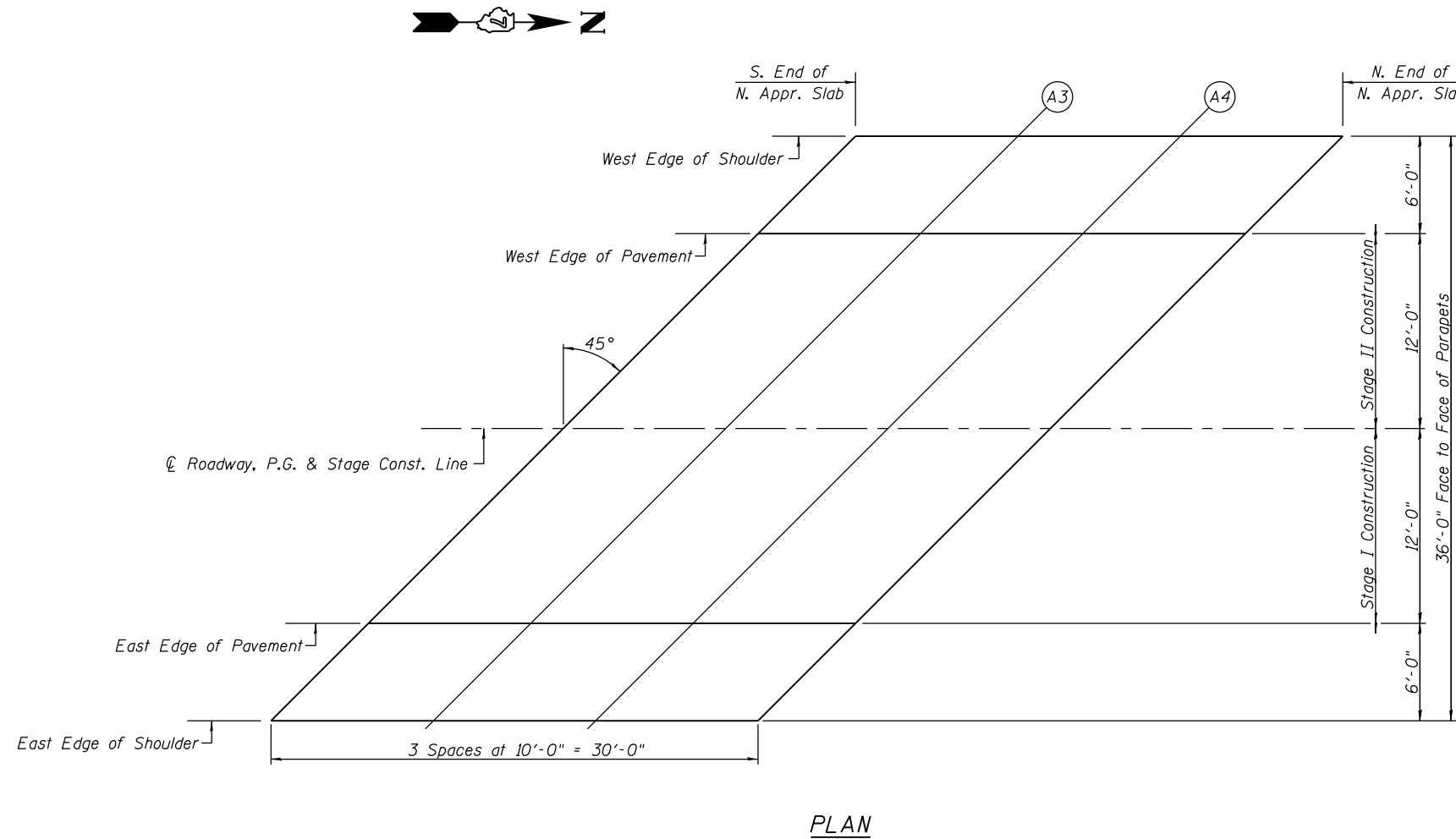
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	492+10.79	0.00	463.00
A3	492+20.79	0.00	462.99
A4	492+30.79	0.00	462.98
N. End of N. Appr. Slab	492+40.79	0.00	462.96

EAST EDGE OF PAVEMENT

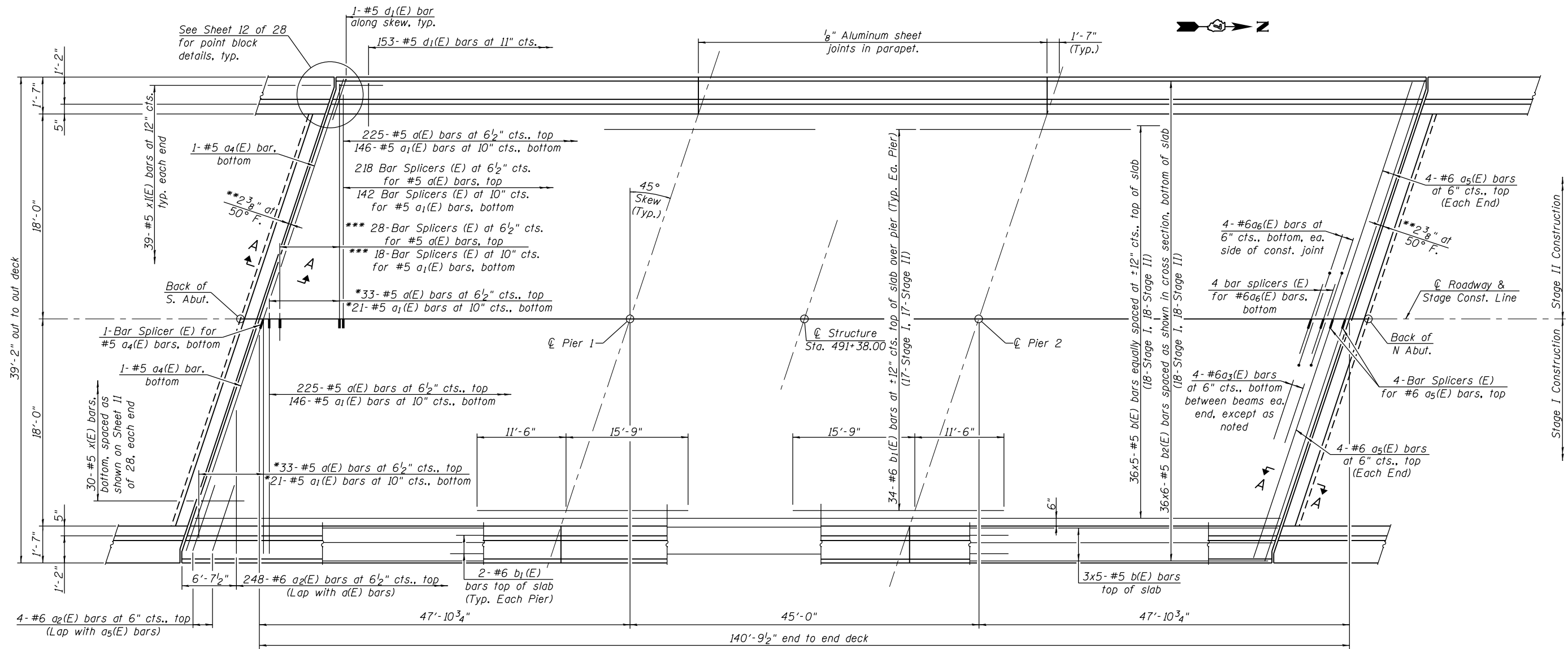
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	491+98.79	12.00	462.83
A3	492+08.79	12.00	462.82
A4	492+18.79	12.00	462.81
N. End of N. Appr. Slab	492+28.79	12.00	462.79

EAST EDGE OF SHOULDER

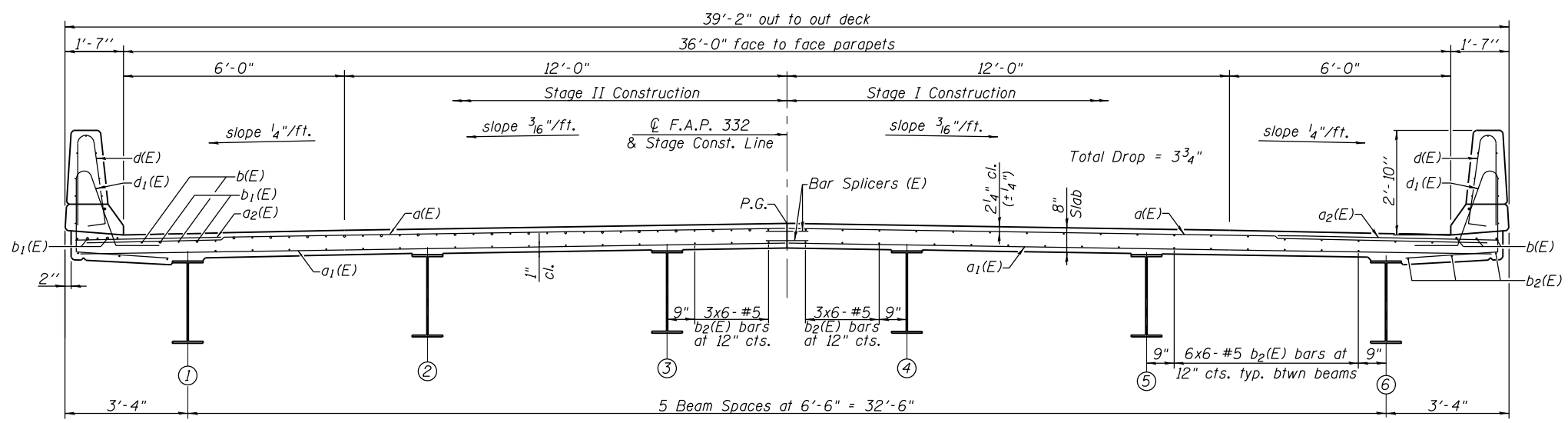
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	491+92.79	18.00	462.71
A3	492+02.79	18.00	462.70
A4	492+12.79	18.00	462.69
N. End of N. Appr. Slab	492+22.79	18.00	462.68







PLAN



NEAR PIER

CROSS SECTION  
(Looking North)

NEAR MIDSPAN

- \* Order a(E) & a<sub>1</sub>(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.
- \*\* Dimension showing concrete opening. For joint opening, see sheet 12 of 28.
- \*\*\* Bar splicers not required for a(E) and a<sub>1</sub>(E) bars within the limits of the #6 a<sub>5</sub>(E) bars at each end of the deck.

**Min. Bar Lap**  
#5 = 3'-6"

Notes:  
See Sheet 11 of 28 for superstructure details and Bill of Material.  
Bars indicated thus 36 x 5-#5 etc. indicates 36 lines of bars with 5 lengths per line.  
See Sheet 11 of 28 for parapet reinforcement. For Section A-A See Sheet 11 of 28.  
See Sheet 1 of 28 for Floor Drain locations.



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PLOT DATE =	DRAWN - JRP	REVISED -
	DATE -	REVISED -

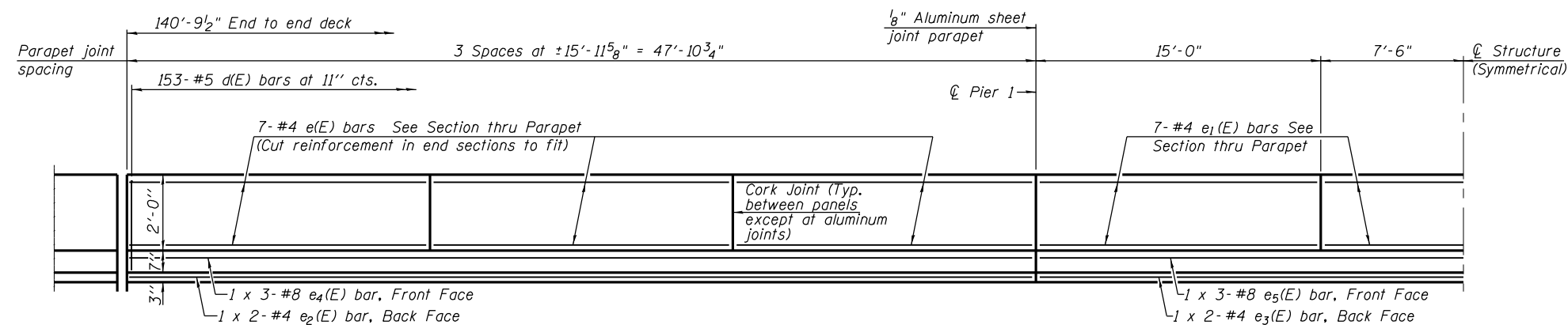
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE  
STRUCTURE NO. 017-0034

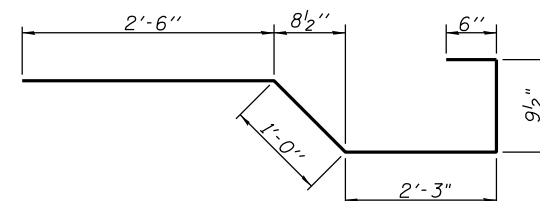
SHEET NO. 10 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	32
CONTRACT NO. 74915				

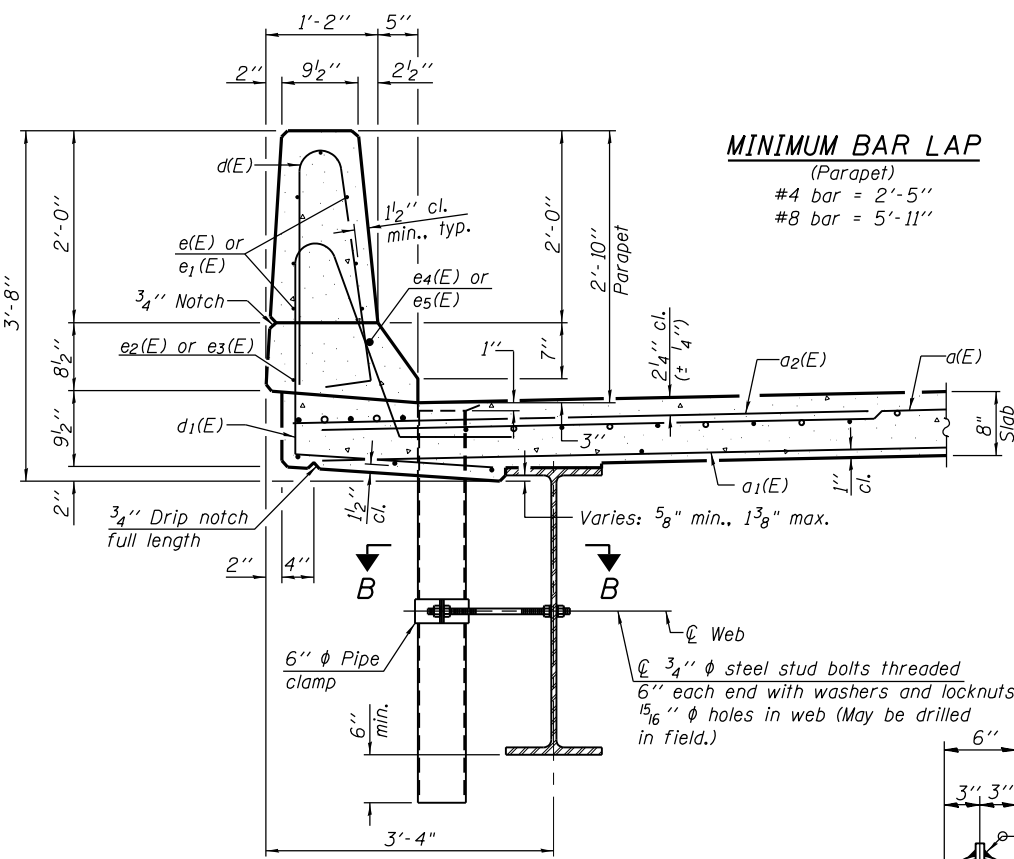
ILLINOIS FED. AID PROJECT



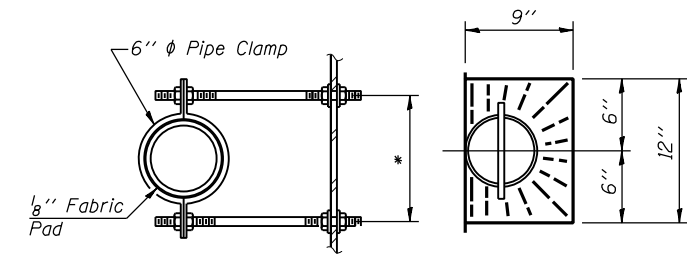
**INSIDE ELEVATION OF PARAPET**  
(Longitudinal dimensions are along inside face of parapet)



**BAR x(E)**

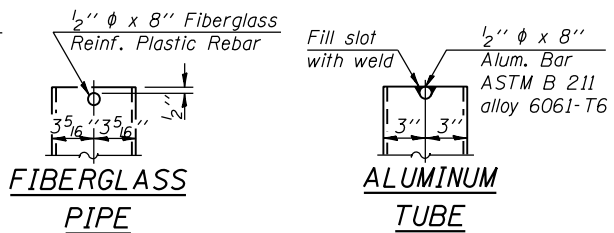


**SECTION THRU PARAPET**



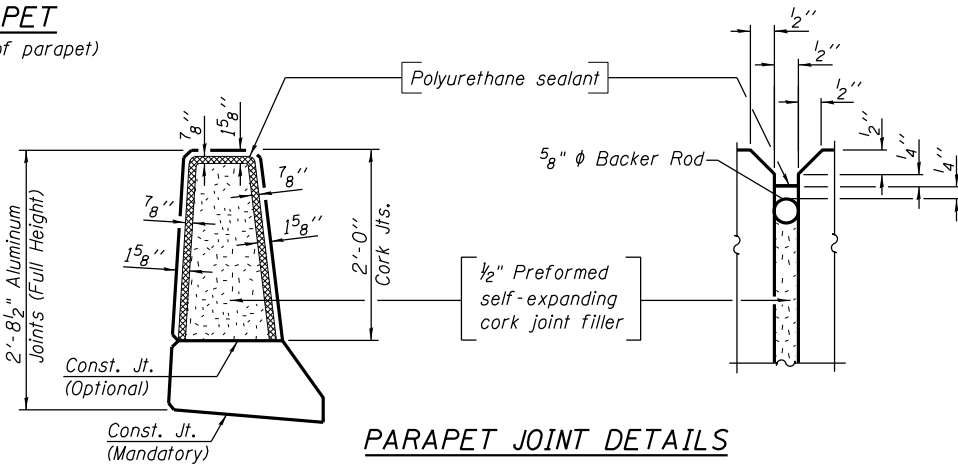
**SECTION B-B**  
\* Dimension as required by Pipe Clamp

**TOP PLAN**



**FIBERGLASS PIPE**

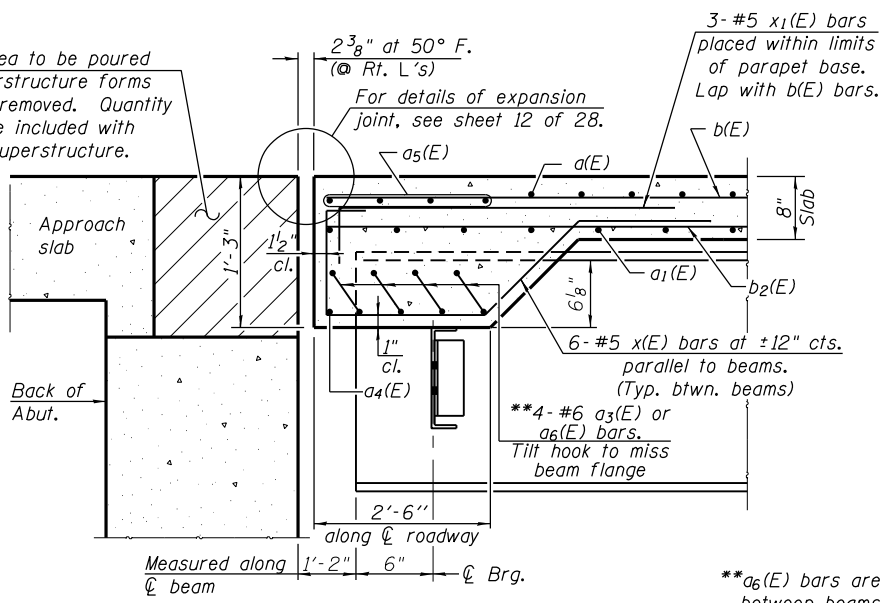
**ALUMINUM TUBE**



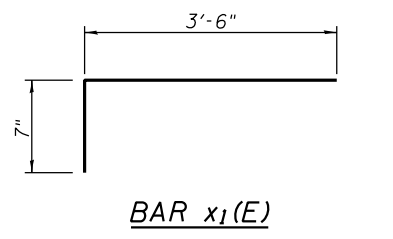
**PARAPET JOINT DETAILS**

**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 floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SPI prior to painting.  
The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.  
The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.  
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.

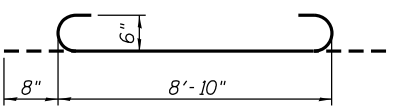
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.



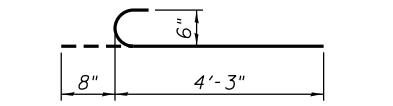
**SECTION A-A**



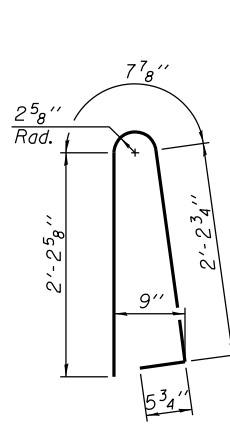
**BAR x1(E)**



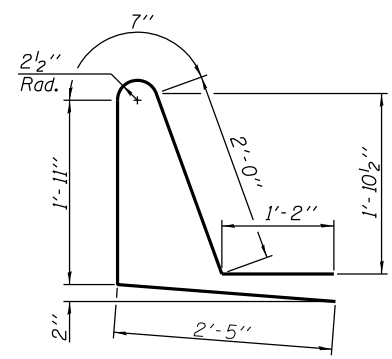
**a3(E) BAR**



**a6(E) BAR**



**BAR d(E)**



**BAR d1(E)**

**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	516	#5	19'-1"	—
a1(E)	334	#5	18'-4"	—
a2(E)	512	#6	6'-6"	—
a3(E)	32	#6	10'-2"	—
a4(E)	4	#5	26'-9"	—
a5(E)	16	#6	26'-9"	—
a6(E)	16	#6	4'-11"	—
b(E)	210	#5	31'-0"	—
b1(E)	76	#6	27'-3"	—
b2(E)	216	#5	26'-6"	—
d(E)	308	#5	5'-7"	—
d1(E)	308	#5	8'-1"	—
e(E)	84	#4	15'-7"	—
e1(E)	42	#4	14'-8"	—
e2(E)	8	#4	25'-0"	—
e3(E)	4	#4	23'-8"	—
e4(E)	12	#8	19'-10"	—
e5(E)	6	#8	18'-10"	—
x(E)	60	#5	7'-1"	—
x1(E)	78	#5	4'-1"	—
Reinforcement Bars, Epoxy Coated			Pound	46480
Concrete Superstructure			Cu. Yds.	189.9

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

\*\*a6(E) bars are used with 4 bar splicers (E) between beams 3 & 4. a3(E) bars are used between all other beam spacings.



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	DATE -	REVISED -

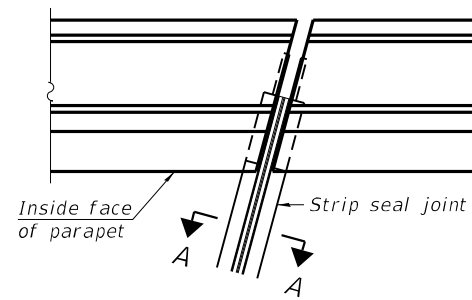
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 017-0034**

SHEET NO. 11 OF 28 SHEETS

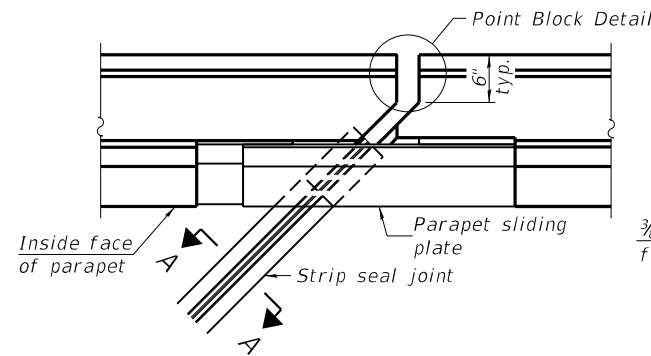
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	33
				CONTRACT NO. 74915

ILLINOIS FED. AID PROJECT

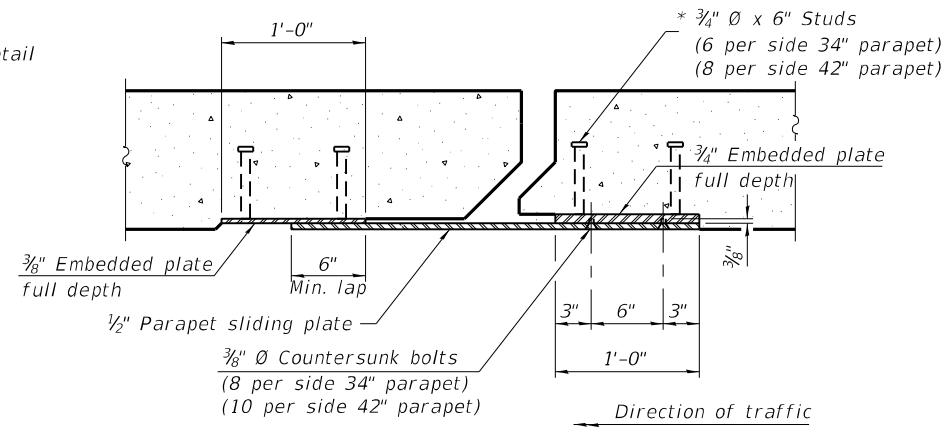


FOR SKEWS  $\leq 30^\circ$

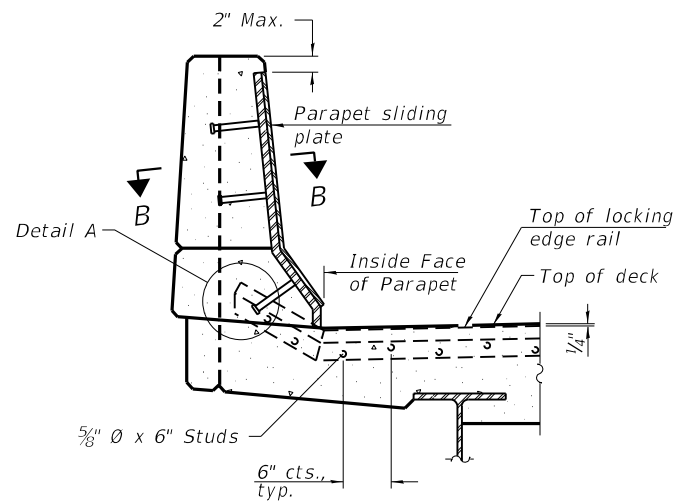
PLAN AT PARAPET



FOR SKEWS  $> 30^\circ$

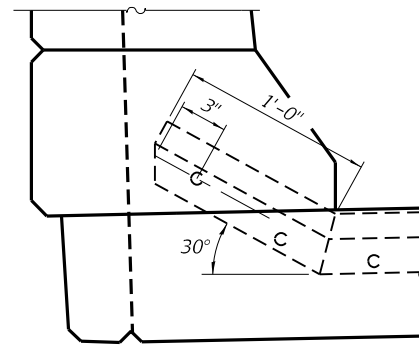


SECTION B-B

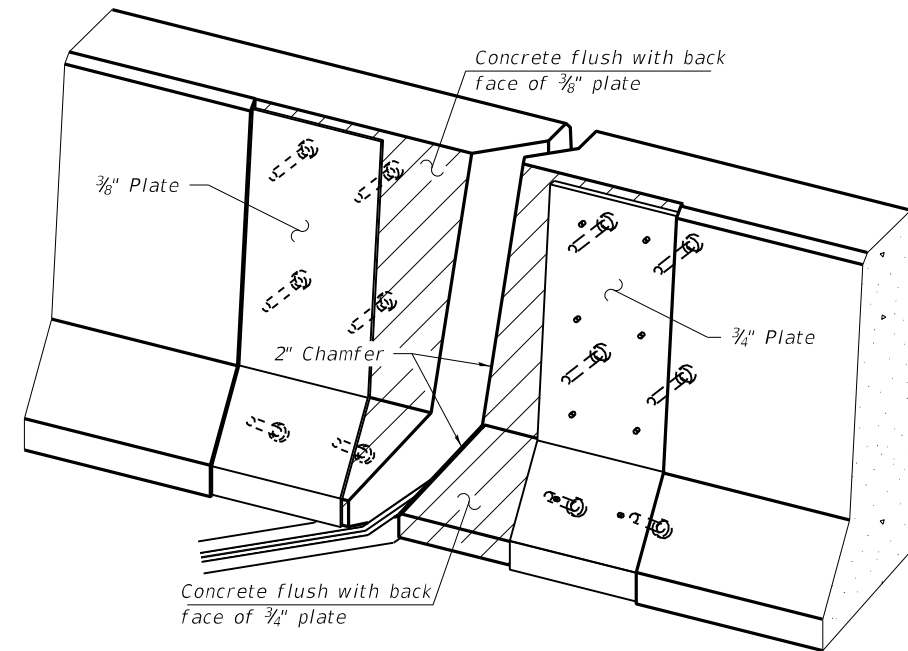


ELEVATION AT PARAPET

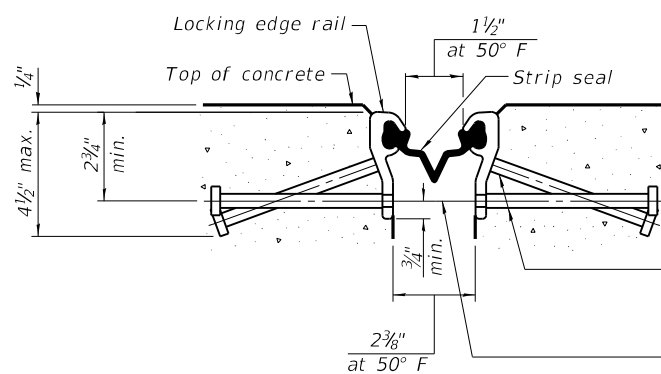
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



DETAIL A

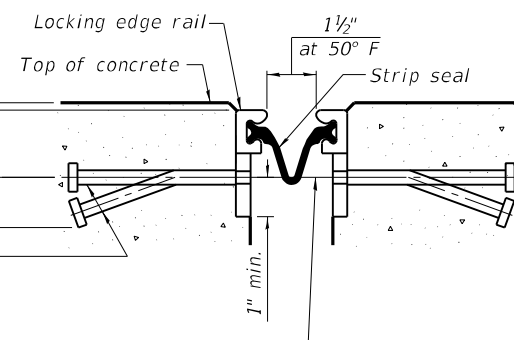


TRIMETRIC VIEW  
(Showing embedded plates only)

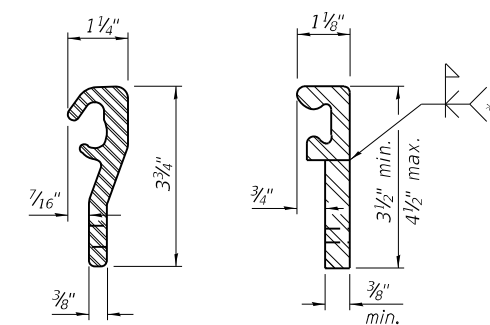


SHOWING ROLLED RAIL JOINT

\*  $\frac{5}{8}$ "  $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 $\frac{3}{8}$ "  $\phi$  threaded rods in  $\frac{7}{16}$ "  $\phi$  holes at  $\pm 4$ "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

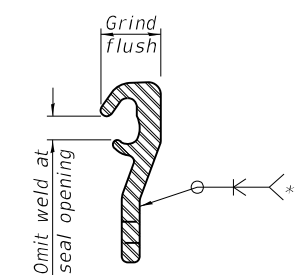


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

\*\* Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	106

EJ-SS

8-11-17



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PLOT DATE =	DRAWN - JRP	REVISED -
	DATE -	REVISED -

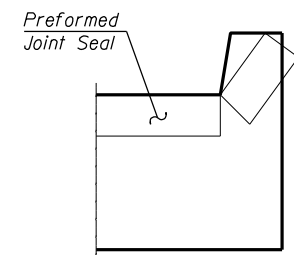
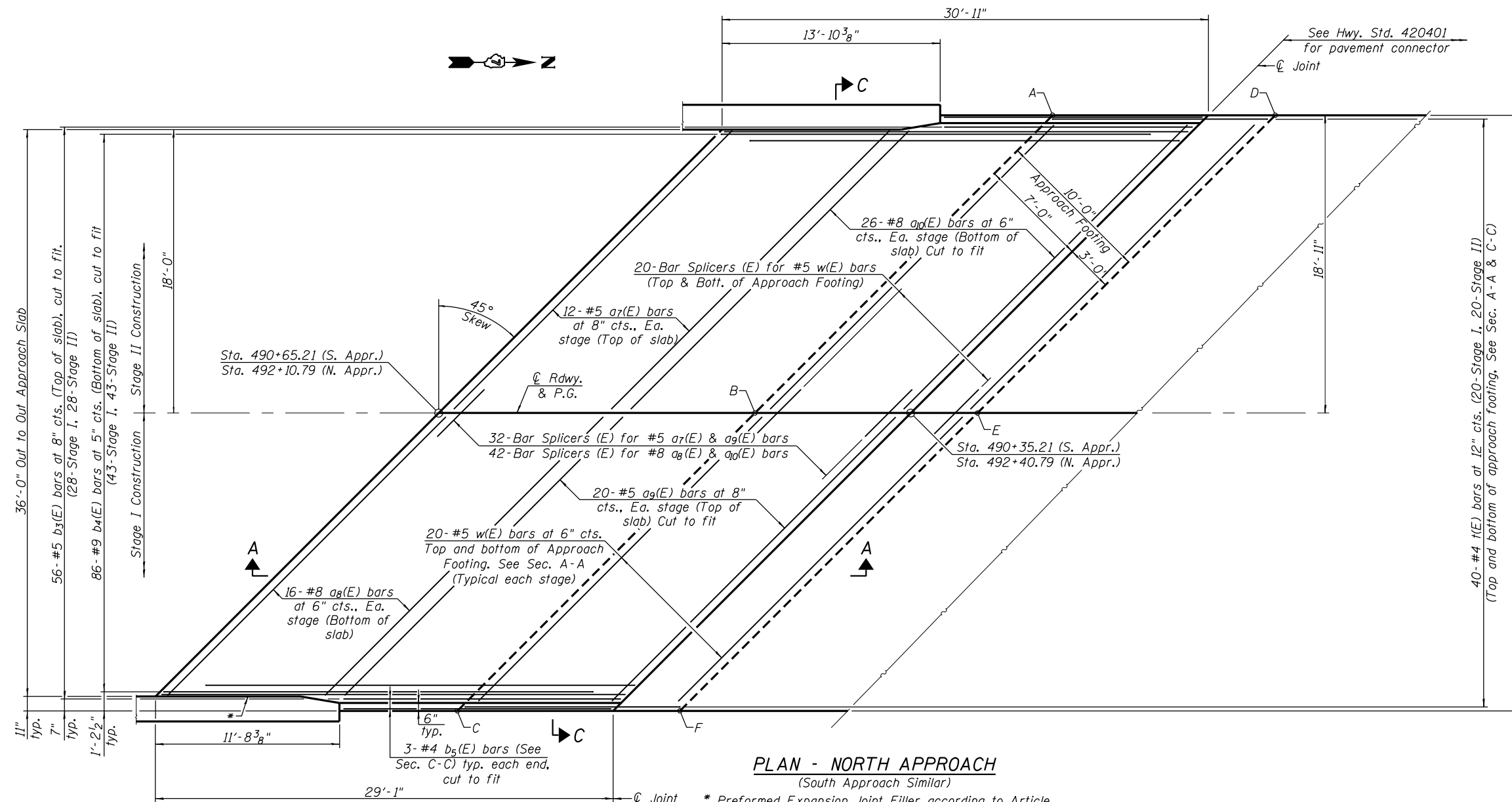
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL  
STRUCTURE NO. 017-0034

SHEET NO. 12 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	34
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

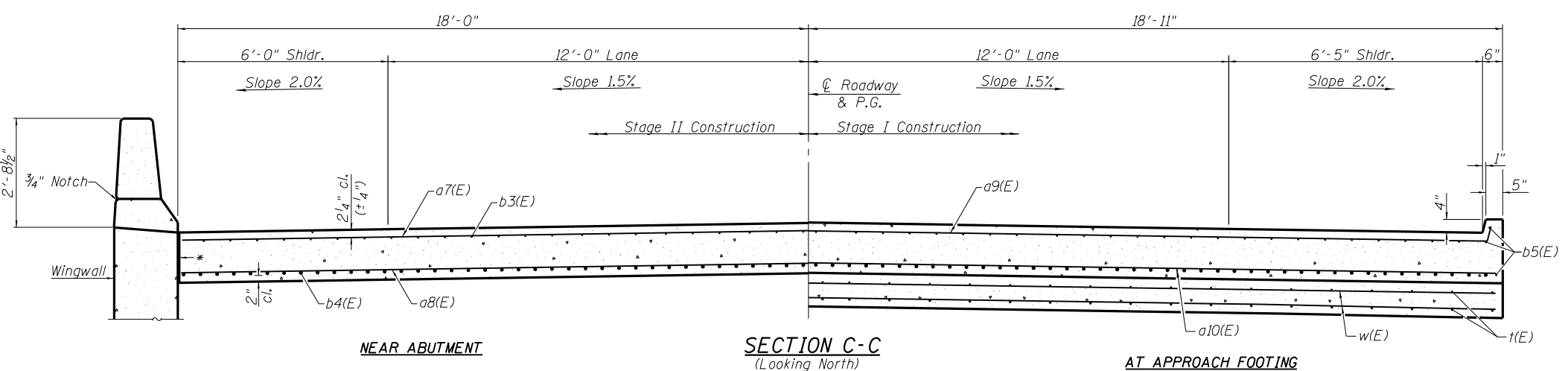
Notes:  
See sheet 14 of 28 for Section A-A.



Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

**TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING**

Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	461.39	460.56	461.37	460.54
B	461.68	460.85	461.72	460.89
C	461.32	460.49	461.42	460.59
D	461.41	460.58	461.35	460.52
E	461.70	460.87	461.70	460.87
F	461.35	460.52	461.41	460.58



(Sheet 1 of 2)



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

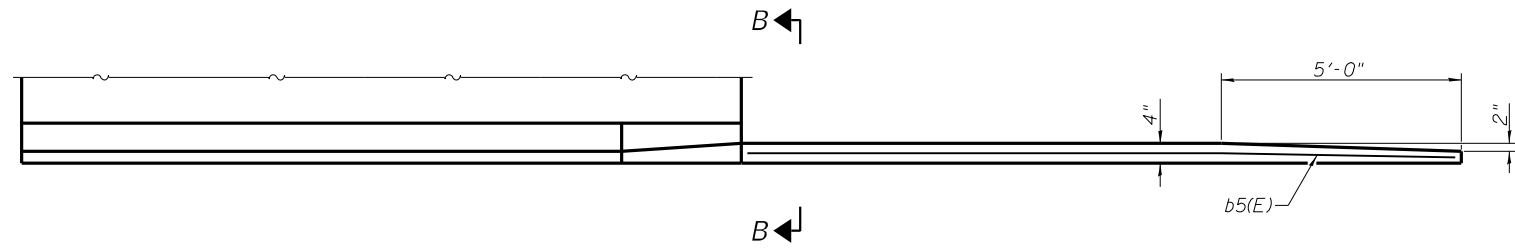
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 017-0034**

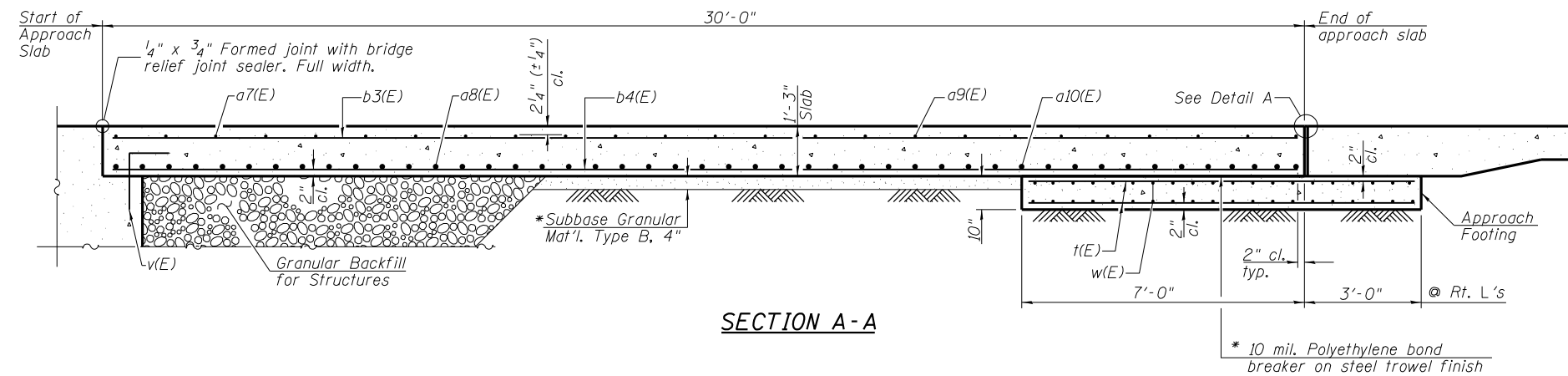
SHEET NO. 13 OF 28 SHEETS

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 35
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

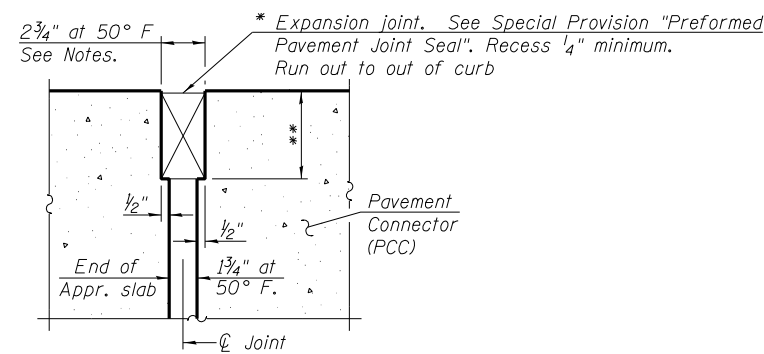
Notes:  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 28.  
 For v(E) bar details, see sheets 18 and 19 of 28.



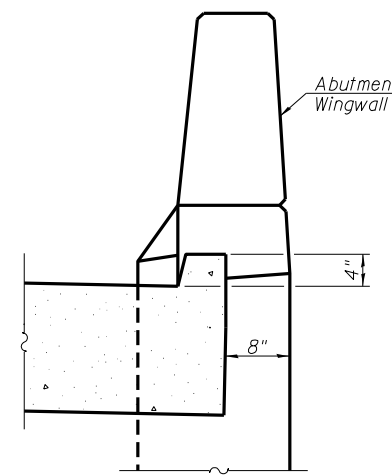
**INSIDE ELEVATION OF PARAPET AND CURB**



**SECTION A-A**



**DETAIL A**  
 (@ Rt. L's)



**VIEW B-B**



**TWO APPROACHES  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a7(E)	48	#5	25'-0"	—
a8(E)	64	#8	25'-0"	—
a9(E)	80	#5	26'-8"	—
a10(E)	104	#8	26'-3"	—
b3(E)	112	#5	29'-8"	—
b4(E)	172	#9	29'-8"	—
b5(E)	12	#5	17'-0"	—
t(E)	160	#4	13'-9"	—
w(E)	160	#5	26'-3"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	104.7
Concrete Structures			Cu. Yd.	33.0
Reinforcement Bars, Epoxy Coated			Pound	41920

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

(Sheet 2 of 2)



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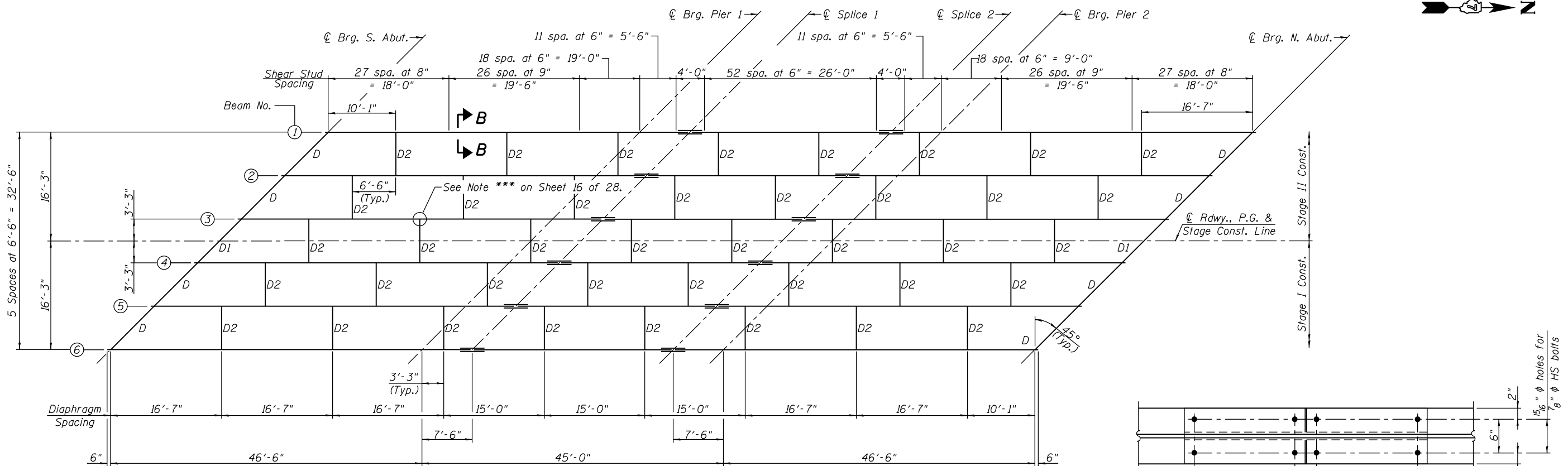
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 017-0034**

SHEET NO. 14 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	36
CONTRACT NO. 74915				

ILLINOIS FED. AID PROJECT



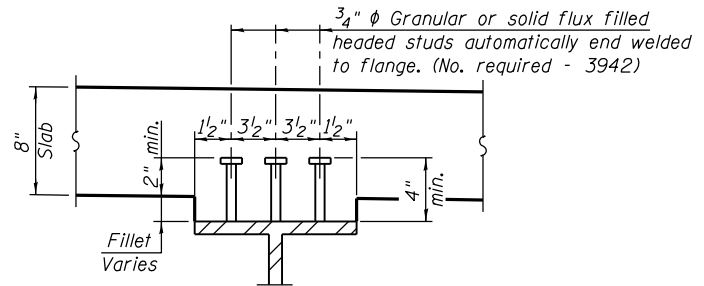
**FRAMING PLAN**

All beams are W27x84, AASHTO M 270, Grade 50, CVN  
 Note: "CVN" denotes Charpy-V-Notch impact energy requirements, Zone 2.

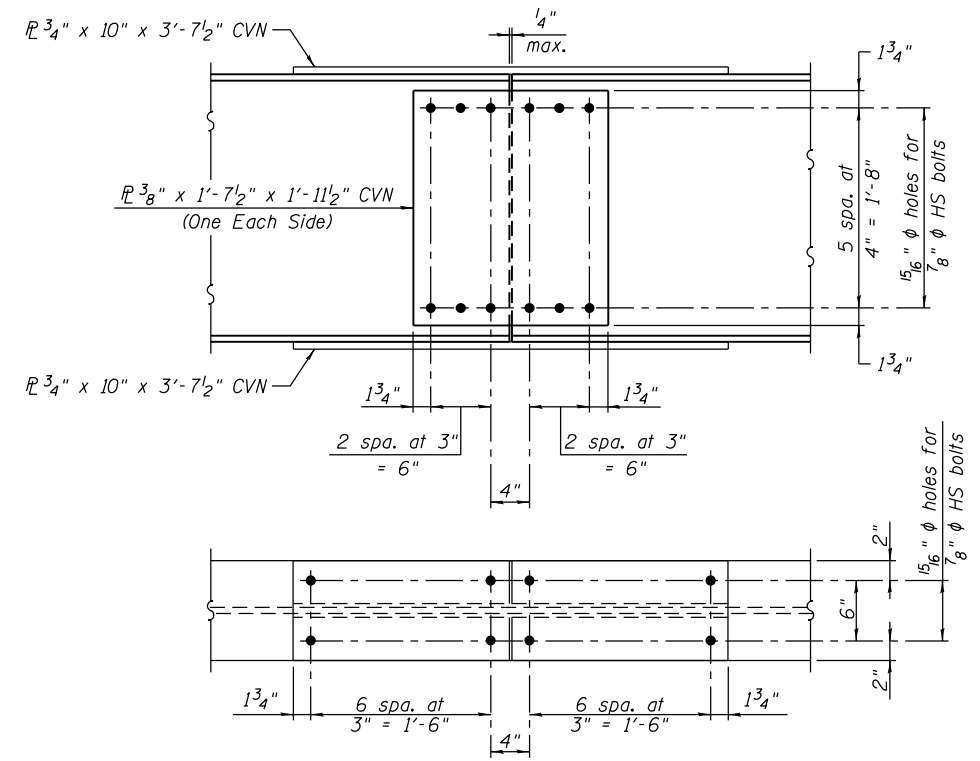
**\* TOP OF BEAM ELEVATIONS**

LOCATION	℄ Brg. S. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Splice 2	℄ Brg. Pier 2	℄ Brg. N. Abut.
Beam 1	462.02	461.99	461.99	461.98	461.99	462.00
Beam 2	462.14	462.11	462.11	462.11	462.11	462.13
Beam 3	462.23	462.21	462.21	462.21	462.22	462.24
Beam 4	462.22	462.21	462.21	462.21	462.22	462.25
Beam 5	462.11	462.10	462.10	462.11	462.12	462.15
Beam 6	461.98	461.97	461.97	461.99	461.99	462.03

\* For fabrication only



**SECTION B-B**



**SPlice DETAIL**  
(12 Required)

All splice plates shall be AASHTO M 270, Grade 50, CVN



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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL  
STRUCTURE NO. 017-0034**

SHEET NO. 15 OF 28 SHEETS

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 37
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

INTERIOR BEAM MOMENT TABLE			
	0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
$I_s$	(in <sup>4</sup> )	2850	2850
$I_c(n)$	(in <sup>4</sup> )	8930	8930
$I_c(3n)$	(in <sup>4</sup> )	6809	6809
$I_c(cr)$	(in <sup>4</sup> )	-	4420
$S_s$	(in <sup>3</sup> )	214	214
$S_c(n)$	(in <sup>3</sup> )	337	337
$S_c(3n)$	(in <sup>3</sup> )	306	306
$S_c(cr)$	(in <sup>3</sup> )	-	259
DC1	(k/')	0.76	0.76
MDC1	(k)	134	33
DC2	(k/')	0.15	0.15
MDC2	(k)	26	6
DW	(k/')	0.33	0.33
MDW	(k)	57	14
LLDF	(k)	0.627	0.627
$M_L + 1M$	(k)	455	352
$M_u$ (Strength I)	(k)	1082	686
$\phi_r M_n$	(k)	1684	1790
$f_s$ DC1	(ksi)	7.5	1.9
$f_s$ DC2	(ksi)	1.0	0.2
$f_s$ DW	(ksi)	2.3	0.6
$f_s$ (L+1M)	(ksi)	16.2	12.5
$f_s$ (Service II)	(ksi)	31.9	19.0
$0.95 R_h F_y f$	(ksi)	47.5	47.5
$f_s$ (Total)(Strength I)	(ksi)	42.4	25.4
$\phi_r F_n$	(ksi)	-	-
Vr	(k)	20.4	19.0

INTERIOR BEAM REACTION TABLE				
	Abut.		Pier	
	Int.	Ext.	Int.	Ext.
LLDF	0.707	0.707	0.707	0.707
OCF	-	1.20	-	-
RDC1	(k)	14.3	16.0	38.3
RDC2	(k)	2.8	2.8	7.5
RDW	(k)	6.1	4.7	16.3
R <sub>L</sub>	(k)	47.9	57.5	71.8
R <sub>1M</sub>	(k)	12.7	15.2	15.5
R <sub>Total</sub>	(k)	83.8	96.2	149.4

$I_s, S_s$ : 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<sup>4</sup> and in<sup>3</sup>).

$I_c(n), S_c(n)$ : 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) in uncracked sections due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(3n), S_c(3n)$ : 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) in uncracked sections, due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(cr), S_c(cr)$ : Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing  $f_s$  (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

$M_L + 1M$ : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

$M_u$  (Strength I): Factored design moment (kip-ft.).  
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + 1M$

$\phi_r M_n$ : 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.

$f_s$  (L+1M): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).  
 $M_L + 1M / S_c(n)$  or  $M_{LL+1} / S_c(cr)$  as applicable.

$f_s$  (Service II): Sum of stresses as computed below (ksi).  
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (L + 1M)$

$0.95 R_h F_y f$ : 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).  
 $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (L + 1M)$

$\phi_r F_n$ : Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vr: Maximum factored shear range in span computed according to Article 6.10.10.

LLDF: Live Load Distribution Factor

OCF: Obtuse Correction Factor

Notes:

Two hardened washers required for each set of oversized holes.

\*\* Alternate C12 x 30 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.

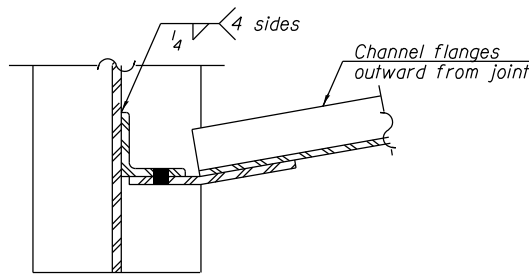
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

\*\*\* Use 1/16" x 1 7/8" vertical slotted holes in connection angles 6" x 4" x 1/2" at the East side of Beam 3 only. Provide 5/16" plate washers for slotted holes. The bolts for slotted holes in angles at Beam 3 shall only be finger tightened prior to deck pour for Stage II Construction. The bolts shall be fully tightened after completion of the deck pour for Stage II Construction.

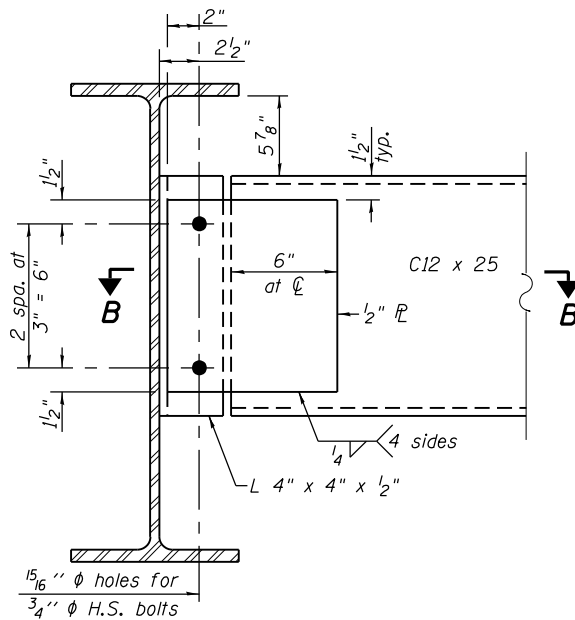
\* Compact Sections

### DIAPHRAGM D1 STAGE CONSTRUCTION SEQUENCE

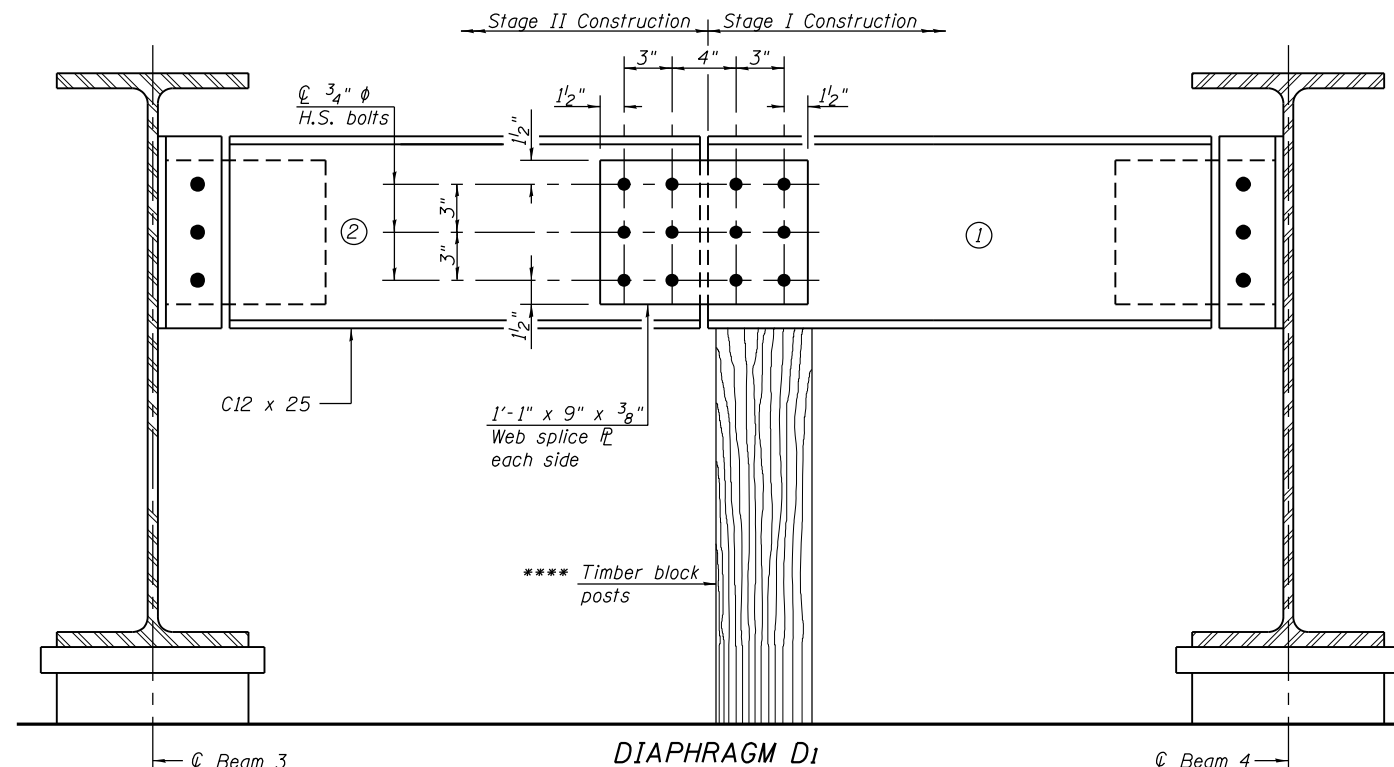
- 1.) Order diaphragm in two sections.
- 2.) Attach section ① of diaphragm to beam
- 3.) Place timber block posts between section ① of diaphragm and abutment bearing section.
- 4.) Attach section ② of diaphragm to both beam and section ① of diaphragm during stage II construction with splice plates.
- 5.) Remove timber block posts.



SECTION B-B



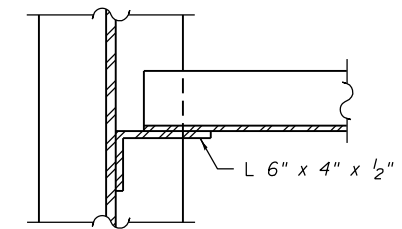
DIAPHRAGM D  
(8 Required)



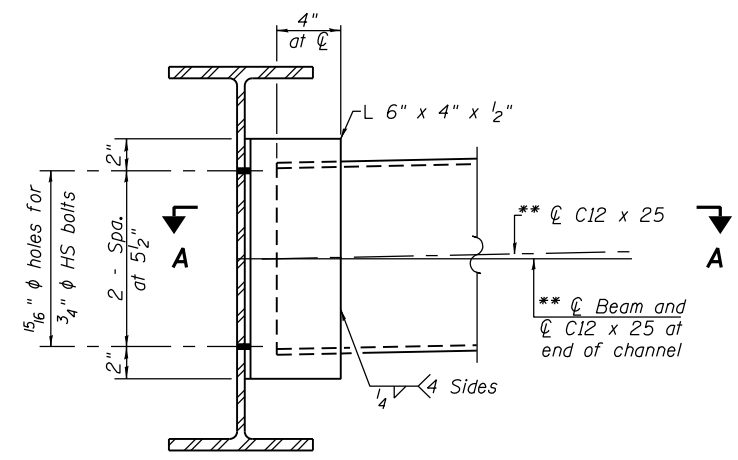
DIAPHRAGM D1  
(2 Required)  
(Looking North)

\*\*\*\* Cost of Timber Block Posts is included with Structural Steel.

For details of connections to beams see Diaphragm D



SECTION A-A



DIAPHRAGM D2  
(40 Required)



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

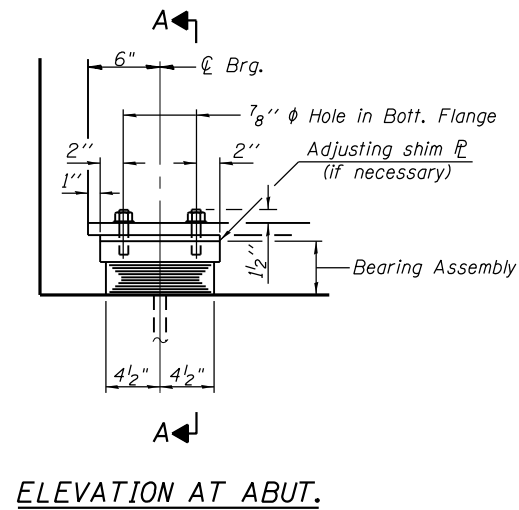
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS  
STRUCTURE NO. 017-0034

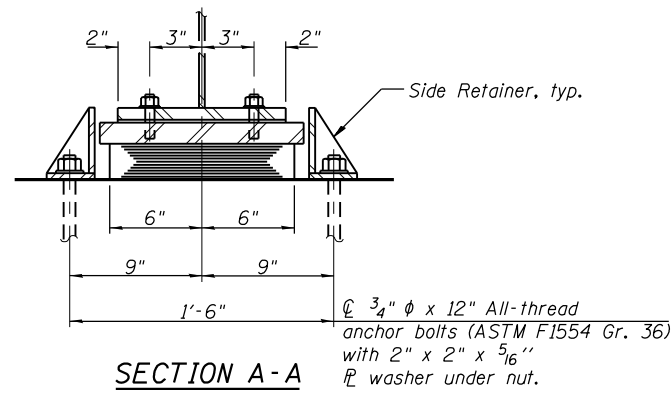
SHEET NO. 16 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	38
CONTRACT NO. 74915				

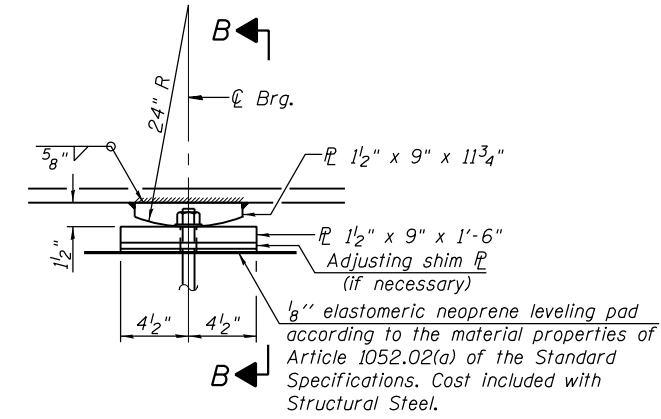
ILLINOIS FED. AID PROJECT



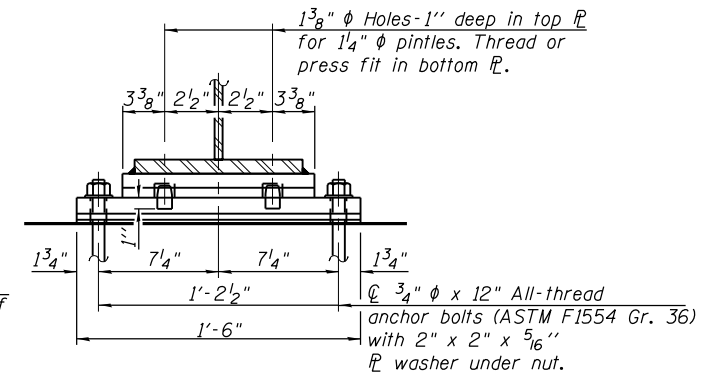
ELEVATION AT ABUT.



SECTION A-A

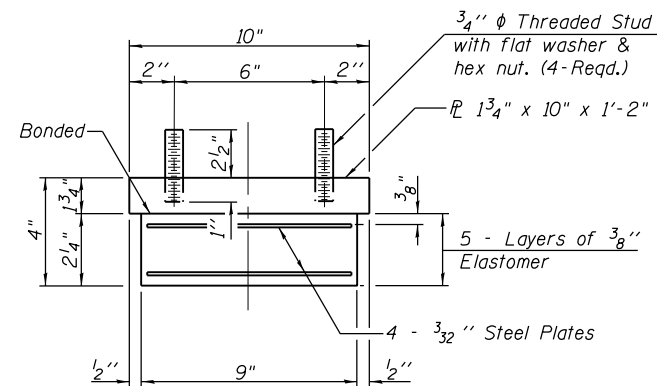


ELEVATION AT PIER



SECTION B-B

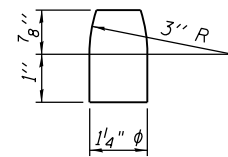
TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

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

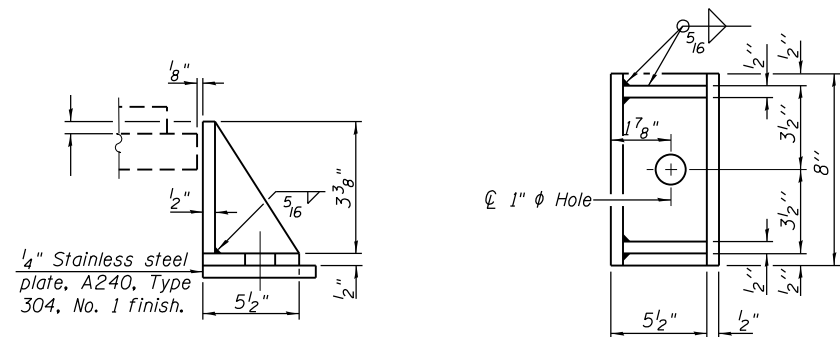
Notes:  
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.  
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.  
Two 1/8-inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.  
The anchor bolt sizes and grades shown constitute a calculated seismic fuse. Substitution of higher diameter and grade anchor bolts will not be allowed.



PINTLE

FIXED BEARING

Note:  
The structural steel plates of the fixed bearing assembly and pintels shall conform to the requirements of AASHTO M270 Grade 50.



SIDE RETAINER

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, 3/4"	Each	48

I-2E-1

1-14-2019



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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

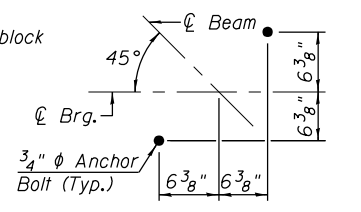
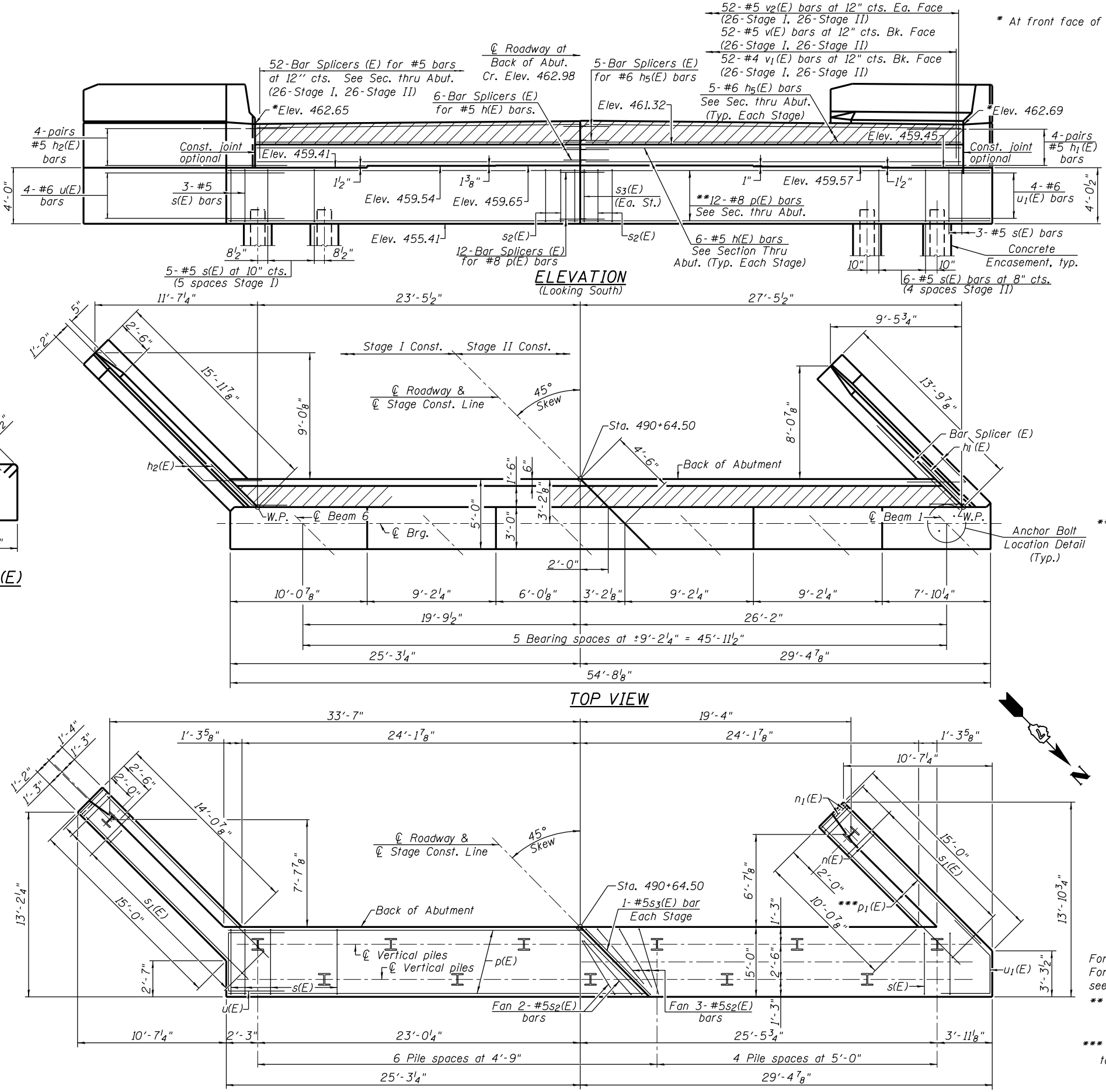
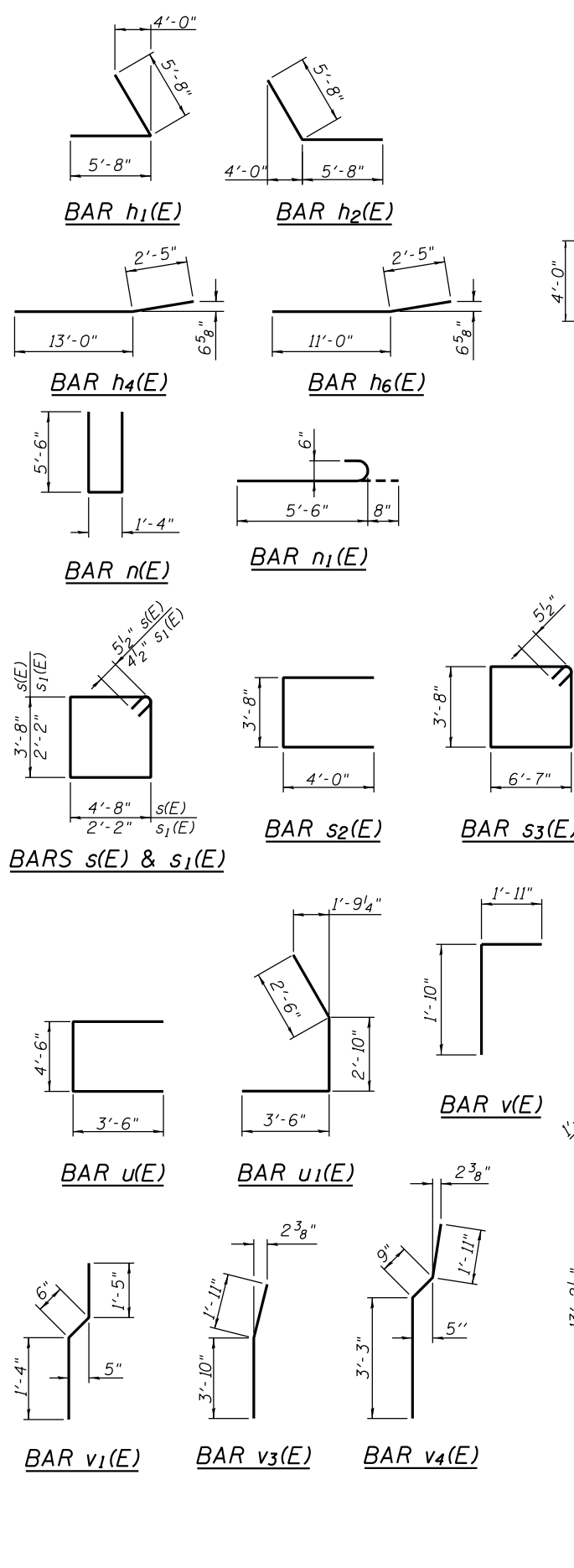
BEARING DETAILS  
STRUCTURE NO. 017-0034

SHEET NO. 17 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	39
CONTRACT NO. 74915				

ILLINOIS FED. AID PROJECT





**ANCHOR BOLT LOCATION DETAIL**

**PILE DATA**

Type: HP 12x53 with Pile Shoes  
 Nominal Required Bearing: 416 kips  
 Factored Resistance Available: 229 kips  
 Est. Length: 45'  
 No. Production Piles: 12  
 No. Test Piles: 1

**ABUTMENT BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	12	#5	25'-1"	
h1(E)	8	#5	11'-4"	
h2(E)	8	#5	11'-4"	
h3(E)	16	#4	14'-8"	
h4(E)	8	#4	15'-5"	
h5(E)	10	#6	25'-1"	
h6(E)	8	#4	13'-5"	
n(E)	26	#6	12'-4"	
n1(E)	14	#6	6'-2"	
p(E)	12	#8	54'-0"	
p1(E)	12	#7	17'-0"	
s(E)	55	#5	17'-7"	
s1(E)	32	#4	9'-5"	
s2(E)	5	#5	11'-8"	
s3(E)	2	#5	21'-5"	
u(E)	4	#6	11'-6"	
u1(E)	4	#6	8'-10"	
v(E)	52	#5	3'-9"	
v1(E)	52	#4	3'-3"	
v2(E)	104	#5	4'-1"	
v3(E)	6	#6	5'-9"	
v4(E)	26	#6	5'-11"	
v5(E)	32	#6	5'-9"	
Structure Excavation		Cu. Yd.	118	
Concrete Structures		Cu. Yd.	66.1	
Reinforcement Bars, Epoxy Coated		Pound	6710	
Furnishing Steel Piles HP 12x53		Foot	540	
Driving Piles		Foot	540	
Pile Shoes		Each	13	
Test Pile Steel HP 12x53		Each	1	
Concrete Encasement		Cu. Yd.	4.5	
Concrete Sealer		Sq. Ft.	570	

For details of Bar Splicers, see sheet 24 of 28.  
 For details of piles and Concrete Encasement see sheet 23 of 28.

\*\*\* Order p(E) bars full length. Cut to fit skew and use remainder of bars in opposite side.  
 \*\*\* Bend p1(E) bars in field as required to miss piles.

A-1-L (>30°)



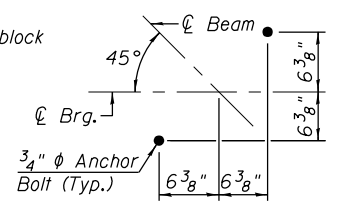
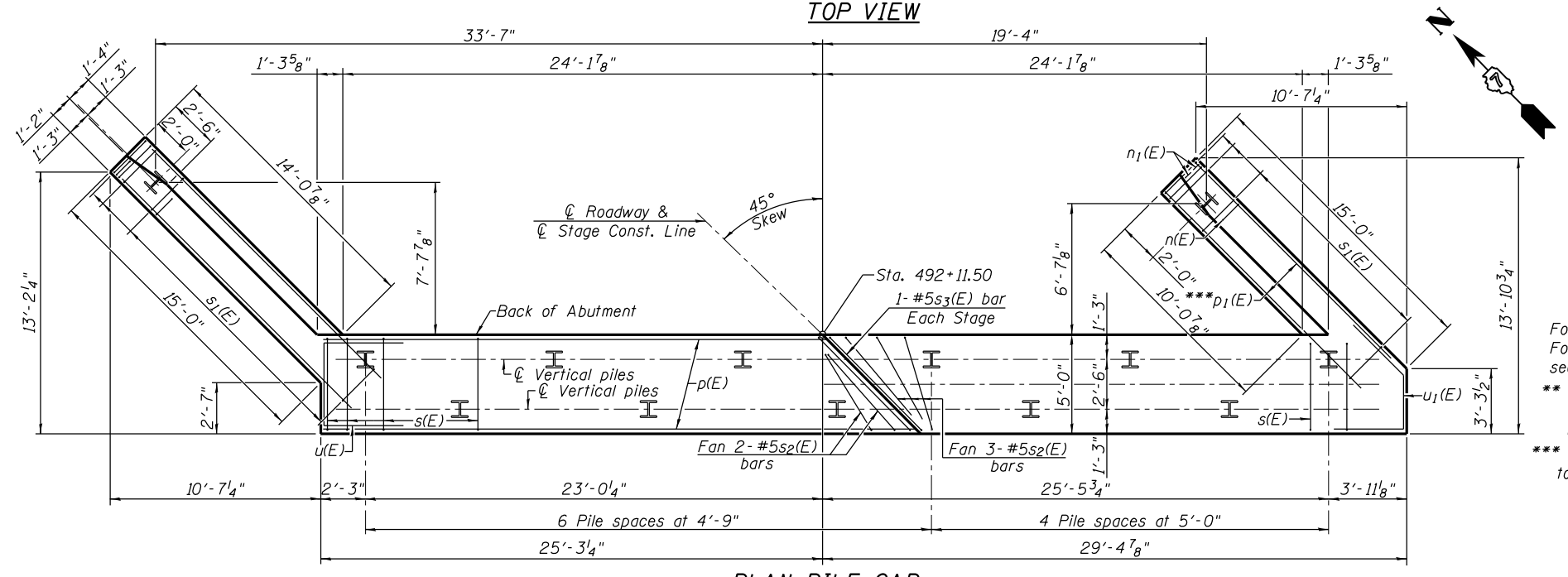
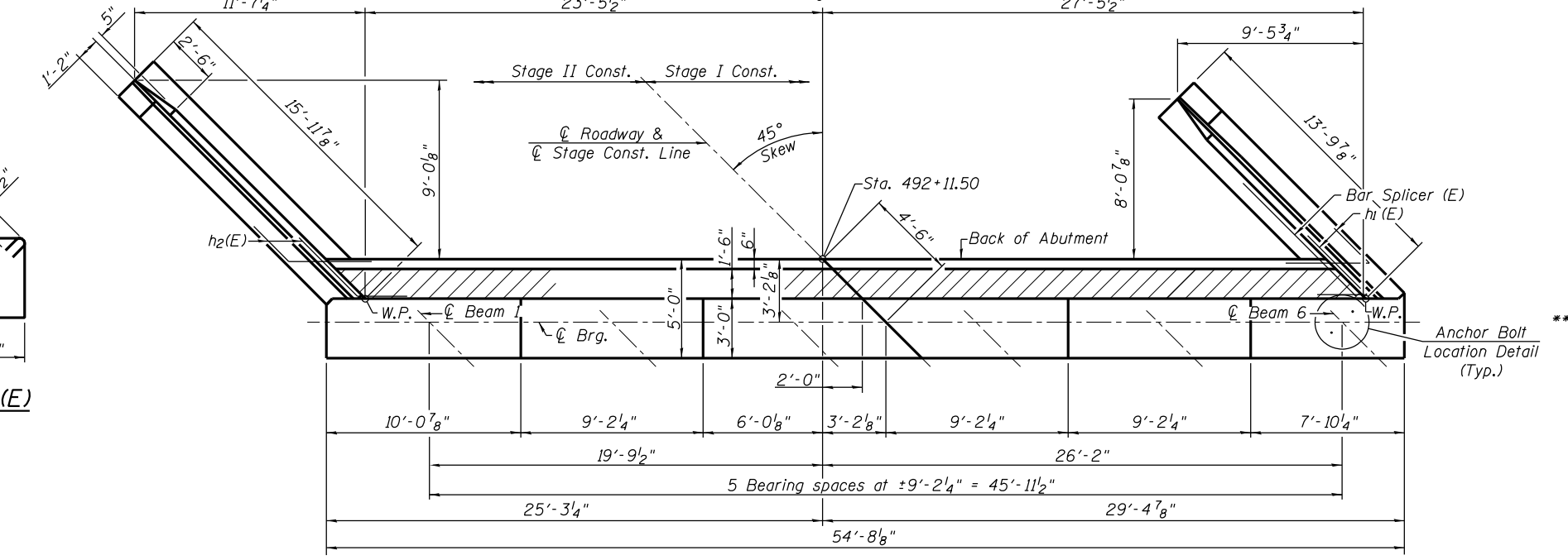
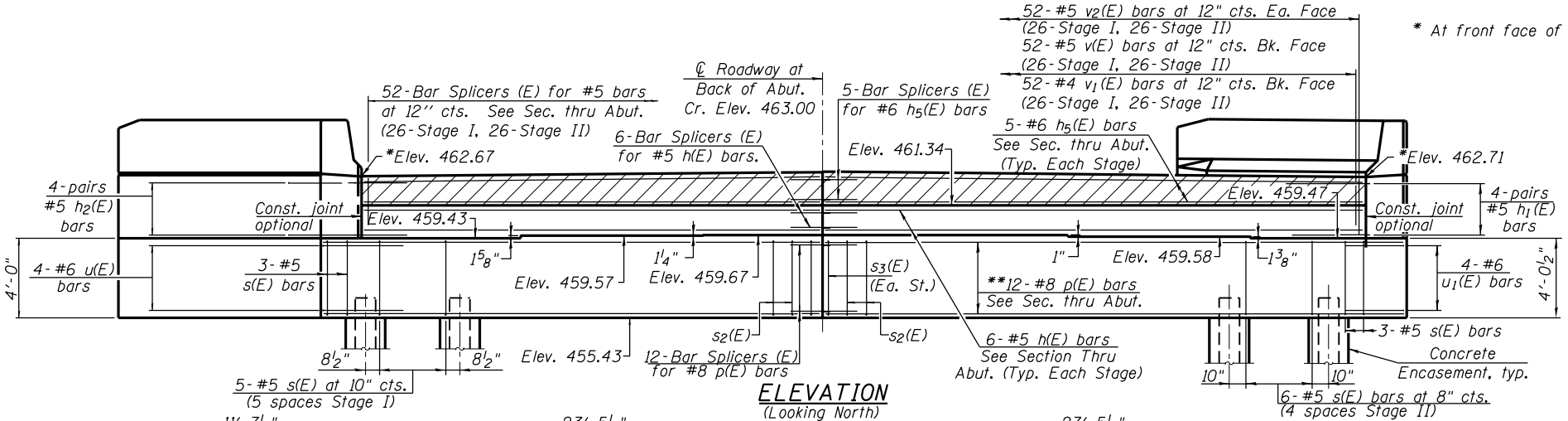
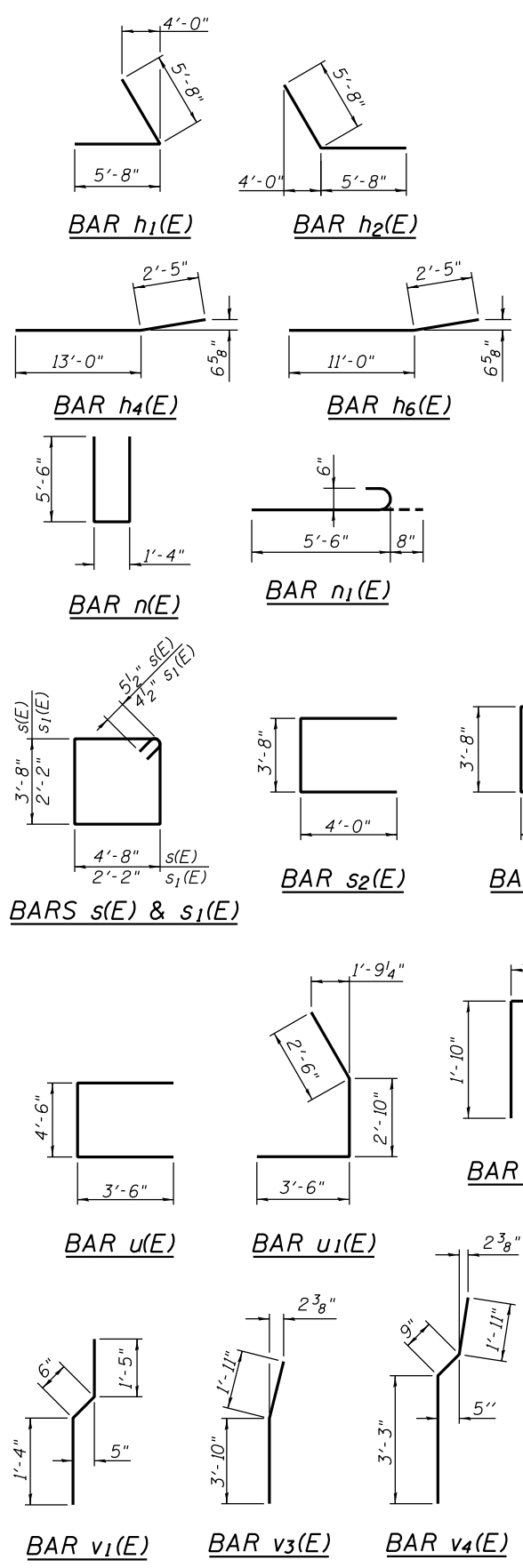
USER NAME =	DESIGNED - GBR	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT STRUCTURE NO. 017-0034**

SHEET NO. 18 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	40
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



**ANCHOR BOLT LOCATION DETAIL**

**PILE DATA**  
Type: HP 12x53 with Pile Shoes  
Nominal Required Bearing: 416 kips  
Factored Resistance Available: 229 kips  
Est. Length: 61'  
No. Production Piles: 13  
No. Test Piles: 0

**ABUTMENT BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	12	#5	25'-1"	
h <sub>1</sub> (E)	8	#5	11'-4"	
h <sub>2</sub> (E)	8	#5	11'-4"	
h <sub>3</sub> (E)	16	#4	14'-8"	
h <sub>4</sub> (E)	8	#4	15'-5"	
h <sub>5</sub> (E)	10	#6	25'-1"	
h <sub>6</sub> (E)	8	#4	13'-5"	
n(E)	26	#6	12'-4"	
n <sub>1</sub> (E)	14	#6	6'-2"	
p(E)	12	#8	54'-0"	
p <sub>1</sub> (E)	12	#7	17'-0"	
s(E)	55	#5	17'-7"	
s <sub>1</sub> (E)	32	#4	9'-5"	
s <sub>2</sub> (E)	5	#5	11'-8"	
s <sub>3</sub> (E)	2	#5	21'-5"	
u(E)	4	#6	11'-6"	
u <sub>1</sub> (E)	4	#6	8'-10"	
v(E)	52	#5	3'-9"	
v <sub>1</sub> (E)	52	#4	3'-3"	
v <sub>2</sub> (E)	104	#5	4'-1"	
v <sub>3</sub> (E)	6	#6	5'-9"	
v <sub>4</sub> (E)	26	#6	5'-11"	
v <sub>5</sub> (E)	32	#6	5'-9"	
Structure Excavation		Cu. Yd.	118	
Concrete Structures		Cu. Yd.	66.1	
Reinforcement Bars, Epoxy Coated		Pound	6710	
Furnishing Steel Piles HP 12x53		Foot	793	
Driving Piles		Foot	793	
Pile Shoes		Each	13	
Concrete Encasement		Cu. Yd.	4.5	
Concrete Sealer		Sq. Ft.	570	

For details of Bar Splicers, see sheet 24 of 28.  
For details of piles and Concrete Encasement see sheet 23 of 28.  
\*\* Order p(E) bars full length. Cut to fit skew and use remainder of bars in opposite side.  
\*\*\* Bend p<sub>1</sub>(E) bars in field as required to miss piles.

A-1-L (>30°)



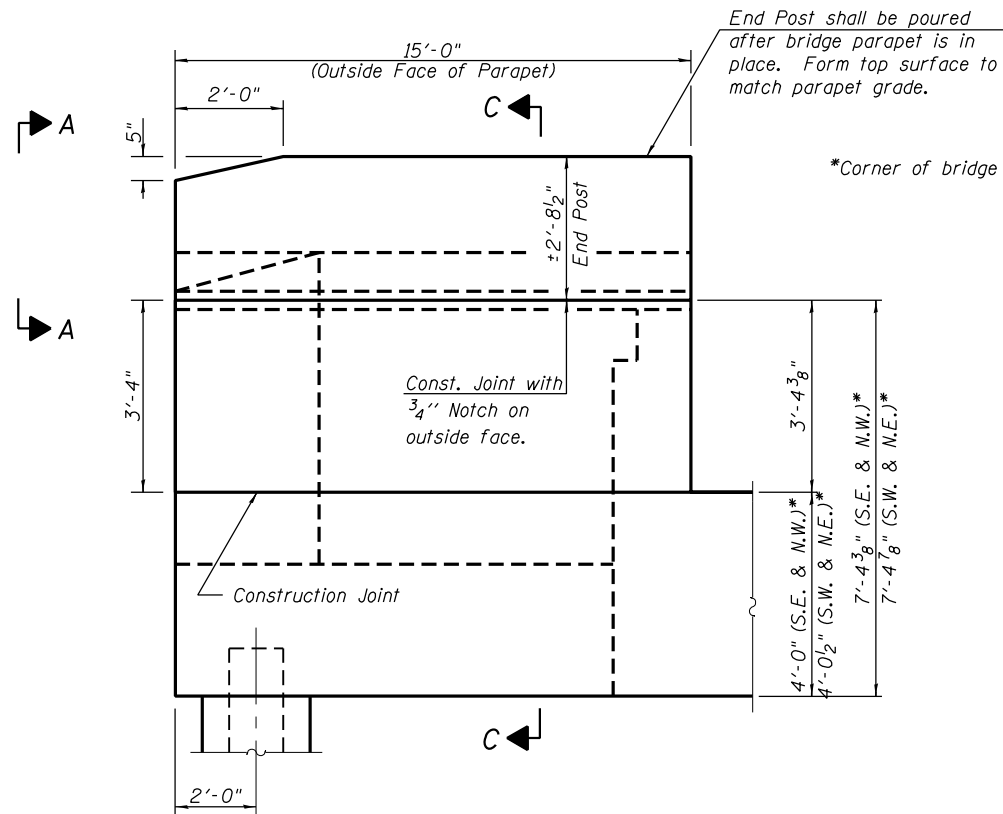
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PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

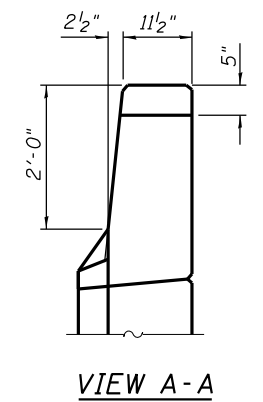
NORTH ABUTMENT  
STRUCTURE NO. 017-0034

SHEET NO. 19 OF 28 SHEETS

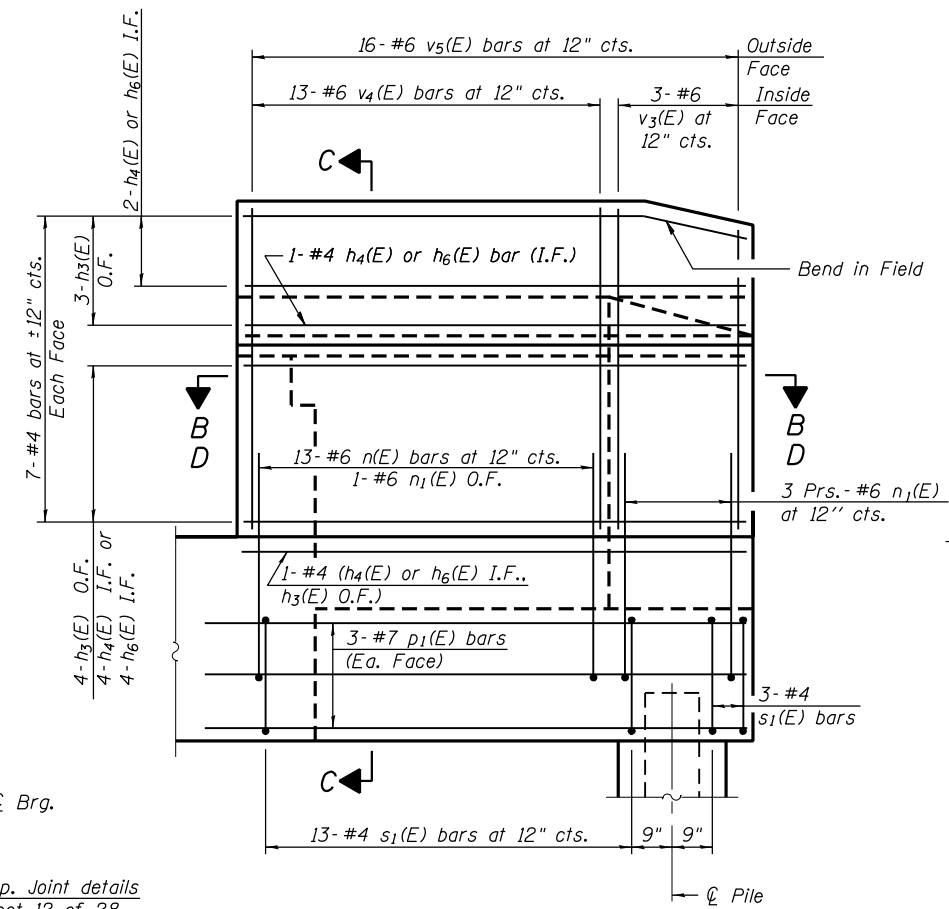
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	41
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



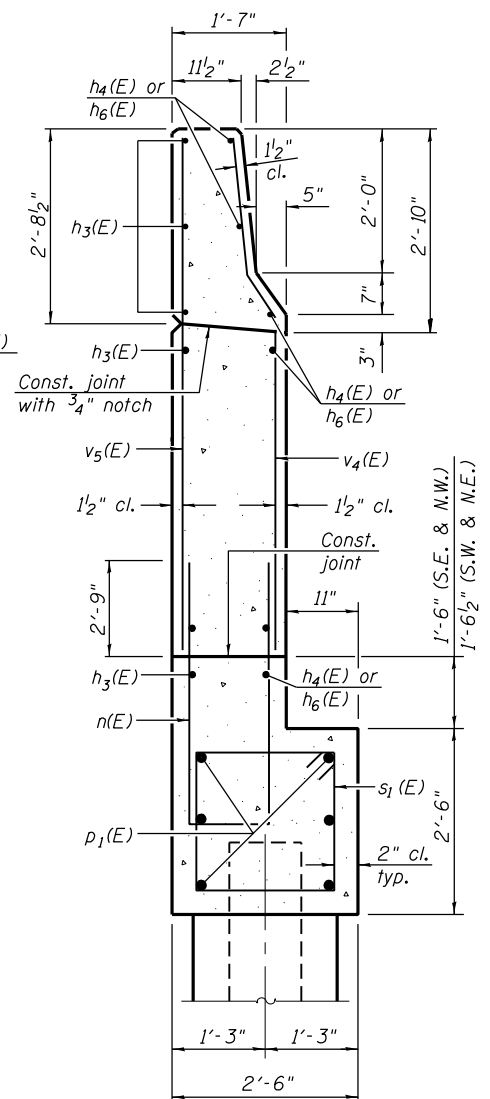
**WING WALL ELEVATION**  
Showing Dimensions



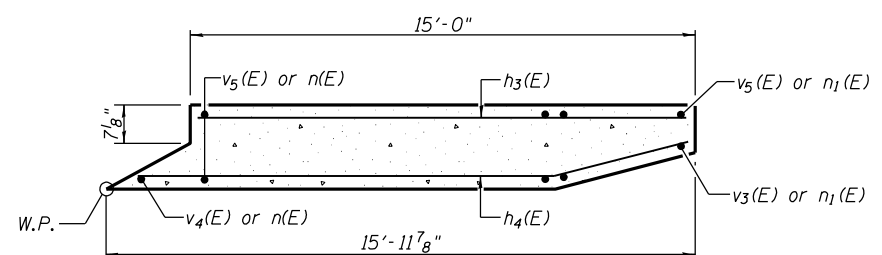
**VIEW A-A**



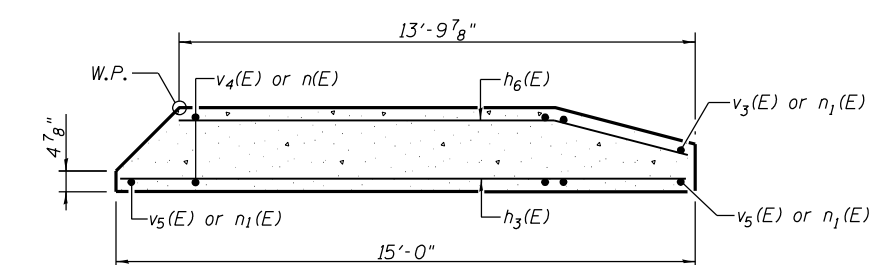
**WING WALL ELEVATION**  
Showing Reinforcement



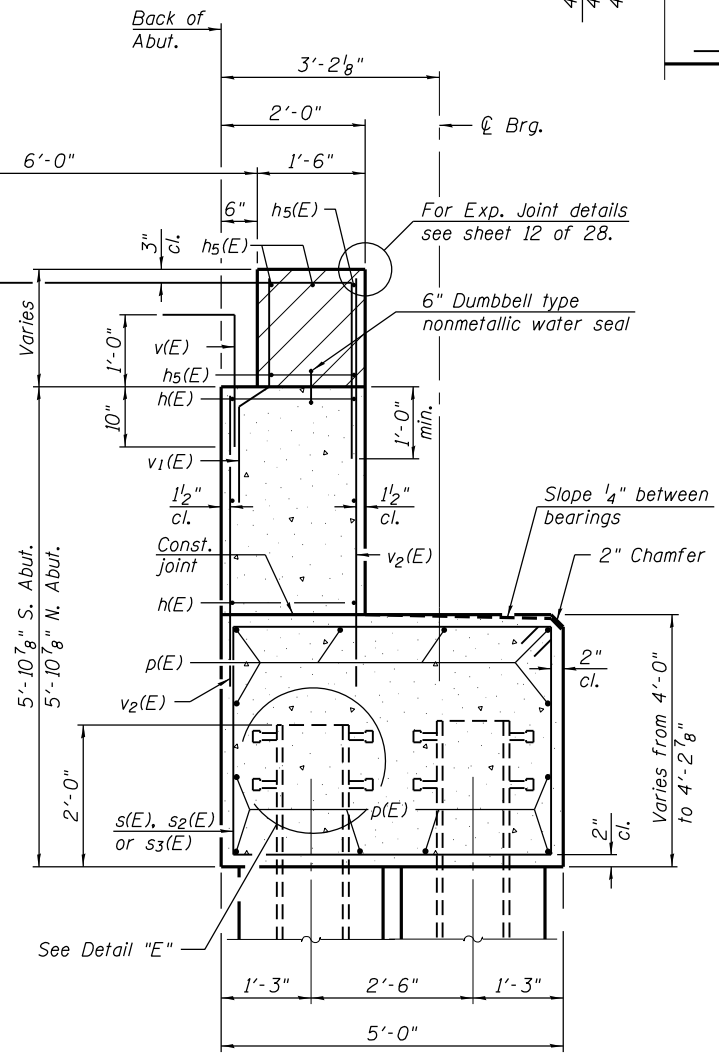
**SECTION C-C**



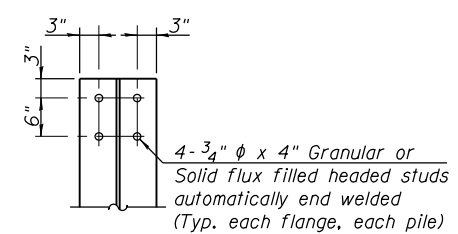
**SECTION B-B**  
West Parapet of North Abutment  
(East Parapet of South Abutment Similar)



**SECTION D-D**  
East Parapet of North Abutment  
(West Parapet of South Abutment Similar)



**SEC. THRU ABUT.**



**DETAIL E**

Cost included in Furnishing  
Steel Piles HP 12x53

Notes:  
Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.  
Space reinforcement in cap to miss anchor bolts.  
Pour steps monolithically with cap.  
Quantity of concrete in end post included with Concrete Superstructure on sheet 11 of 28.  
Concrete sealer to be applied to backwalls, bridge seats and front face of pile caps.

A-1-D

7-1-10



USER NAME =	DESIGNED - GBR	REVISED -
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	DATE -	REVISED -

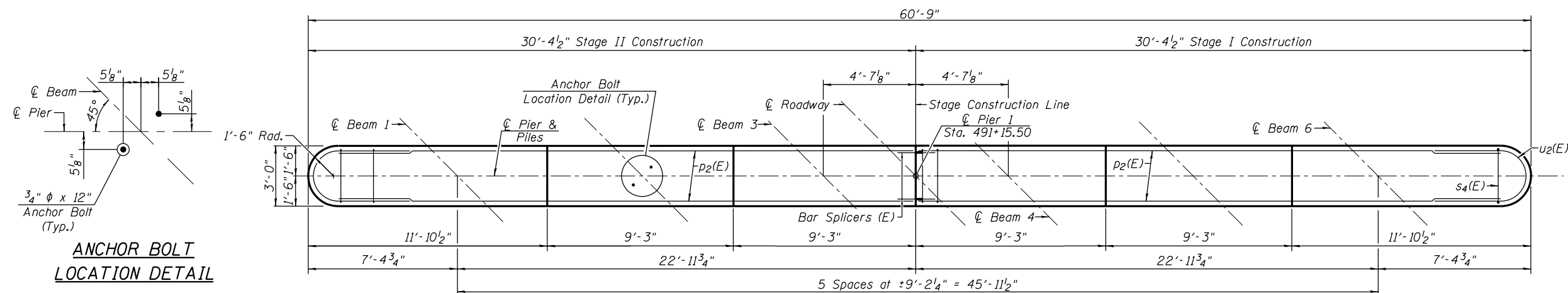
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS  
STRUCTURE NO. 017-0034

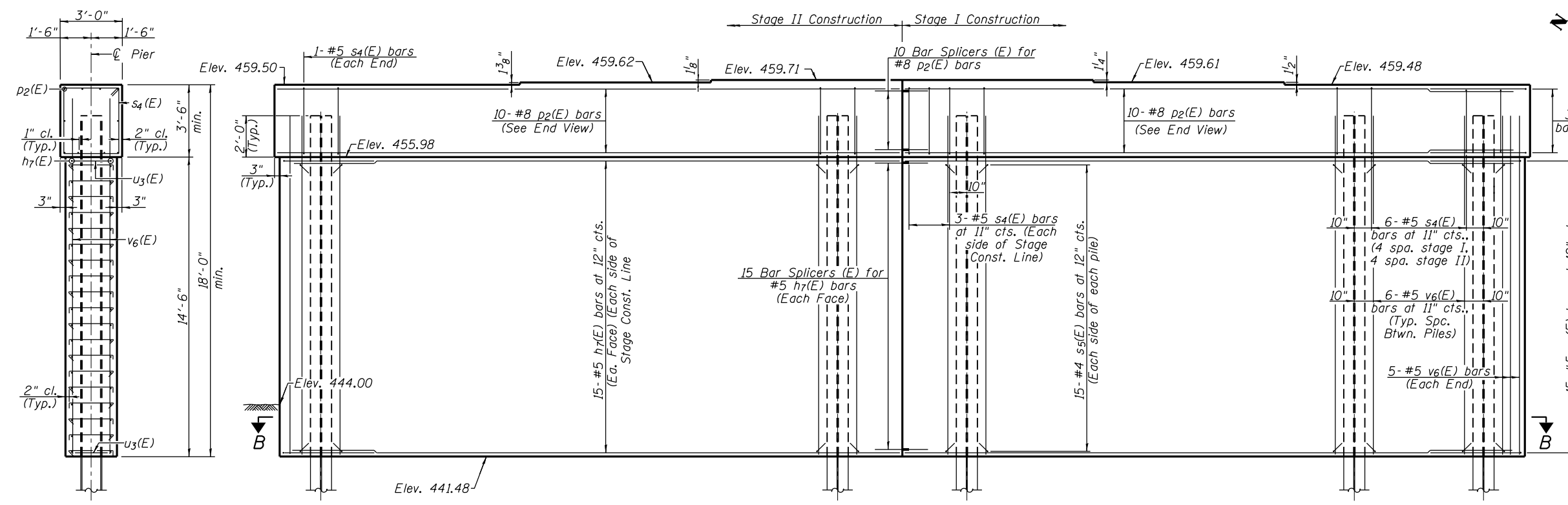
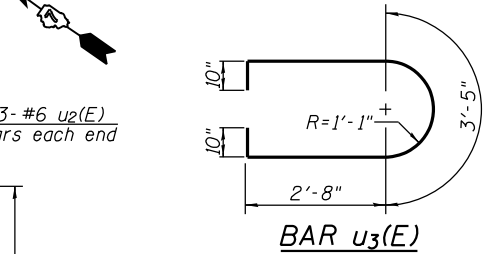
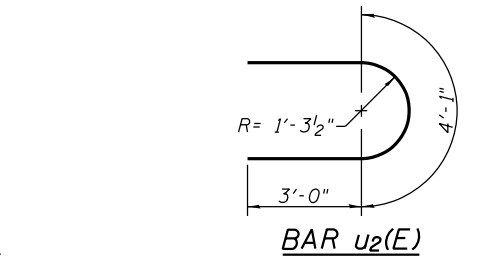
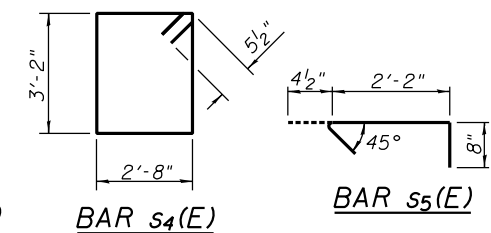
SHEET NO. 20 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	42
CONTRACT NO. 74915				

ILLINOIS FED. AID PROJECT



**ANCHOR BOLT LOCATION DETAIL**

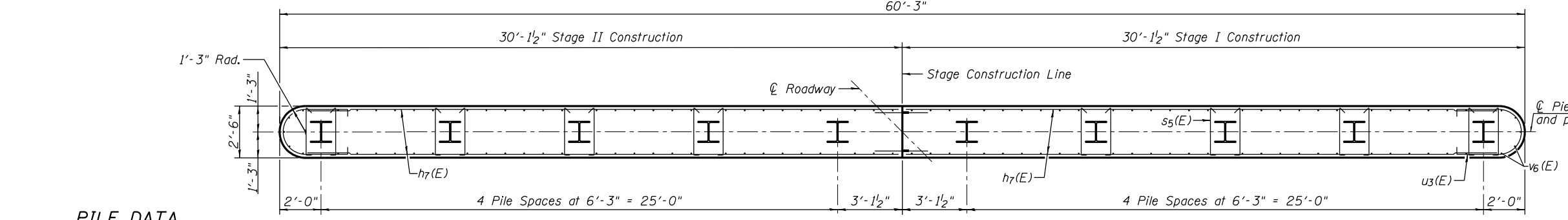


**END VIEW**

**ELEVATION**  
(Looking North)

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h7(E)	60	#5	28'-8"	
p2(E)	20	#8	28'-8"	
s4(E)	56	#5	12'-7"	
s5(E)	300	#4	3'-3"	
u2(E)	6	#6	10'-1"	
u3(E)	30	#5	10'-5"	
v6(E)	118	#5	16'-6"	
Structure Excavation		Cu. Yd.	39	
Concrete Structures		Cu. Yd.	104.3	
Reinforcement Bars, Epoxy Coated		Pound	7160	
Furnishing Steel Piles HP 14x89		Foot	650	
Driving Piles		Foot	650	
Pile Shoes		Each	10	
Cofferdam (Type 1) - Location 1		Each	1	



**PILE DATA**

Type: HP 14 x 89 with Pile Shoes  
 Nominal Required Bearing: 658 kips  
 Allowable Resistance Available: 358 kips  
 Est. Length: 65 ft.  
 No. Production Piles: 10  
 No. Test Piles: 0

\*\* Alternate end of bar.

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of Bar Splicers, see sheet 24 of 28.  
 For details of Piles see sheet 23 of 28.  
 If a portion of the pier wall or concrete encasement is underwater, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.



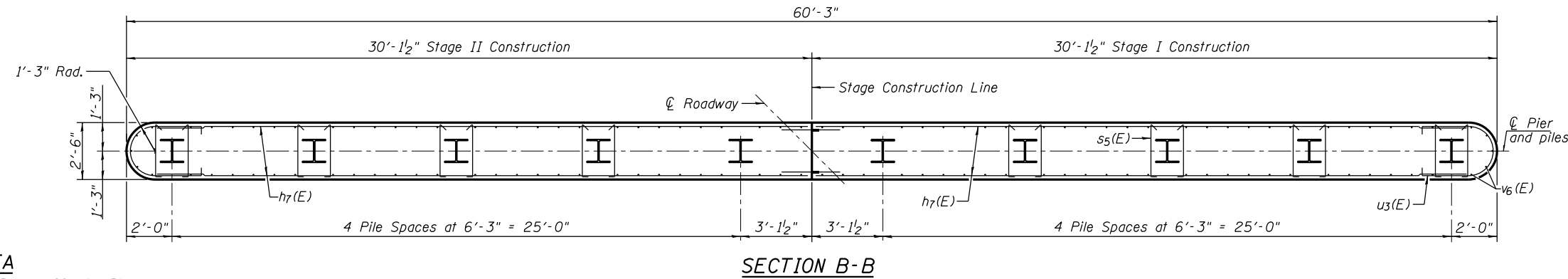
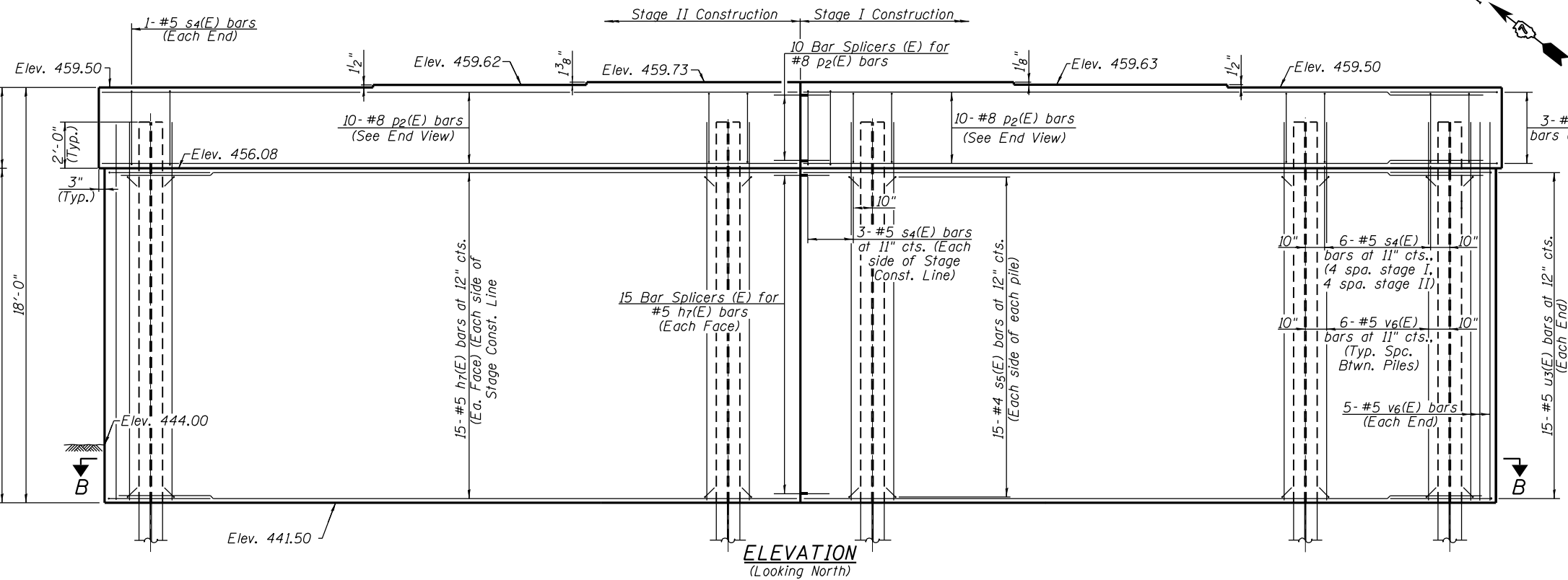
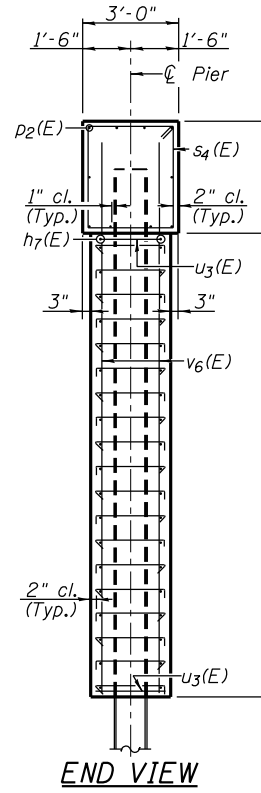
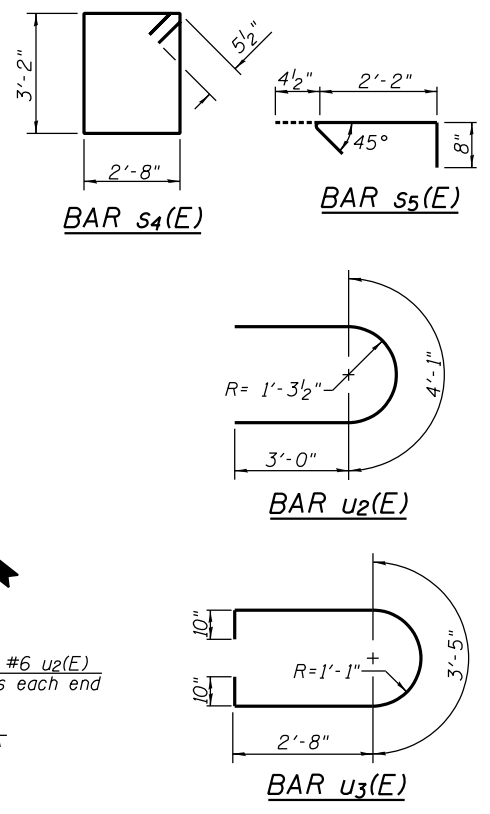
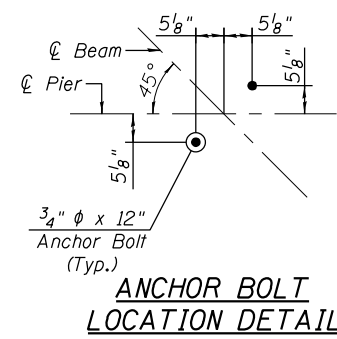
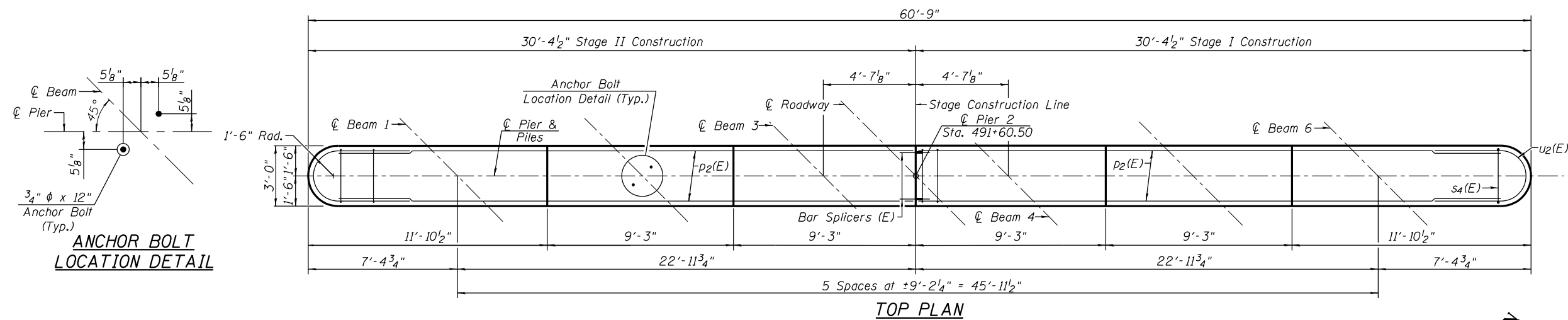
USER NAME =	DESIGNED - GBR	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	DATE -	REVISED -

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

**PIER 1**  
**STRUCTURE NO. 017-0034**

SHEET NO. 21 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	43
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h7(E)	60	#5	28'-8"	—
p2(E)	20	#8	28'-8"	—
s4(E)	56	#5	12'-7"	⊔
s5(E)	300	#4	3'-3"	⌒
u2(E)	6	#6	10'-1"	⊔
u3(E)	30	#5	10'-5"	⊔
v6(E)	118	#5	16'-6"	—
Structure Excavation		Cu. Yd.	39	
Concrete Structures		Cu. Yd.	104.3	
Reinforcement Bars, Epoxy Coated		Pound	7160	
Furnishing Steel Piles HP 14x89		Foot	720	
Driving Piles		Foot	720	
Pile Shoes		Each	10	
Cofferdam (Type 1) - Location 2		Each	1	

**PILE DATA**  
 Type: HP 14 x 89 with Pile Shoes  
 Nominal Required Bearing: 549 kips  
 Allowable Resistance Available: 300 kips  
 Est. Length: 72 ft.  
 No. Production Piles: 10  
 No. Test Piles: 0

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of Bar Splicers, see sheet 24 of 28.  
 For details of Piles see sheet 23 of 28.  
 If a portion of the pier wall or concrete encasement is underwater, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

\*\* Alternate end of bar.



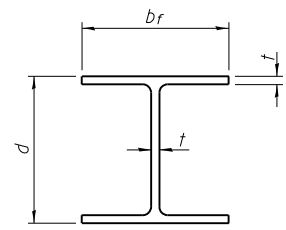
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PLOT DATE =	DRAWN - JRP	REVISED -
	DATE -	REVISED -

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PIER 2  
 STRUCTURE NO. 017-0034

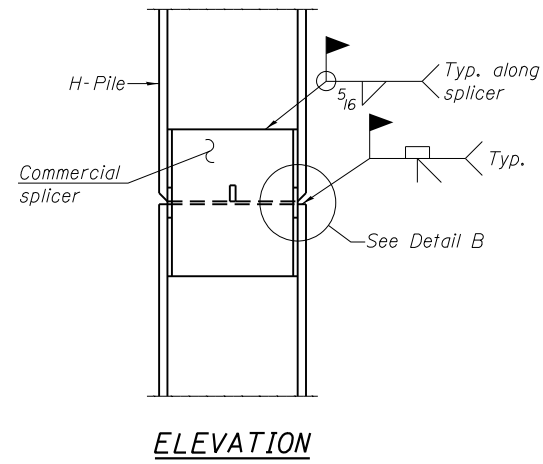
SHEET NO. 22 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	44
			CONTRACT NO. 74915	
ILLINOIS FED. AID PROJECT				

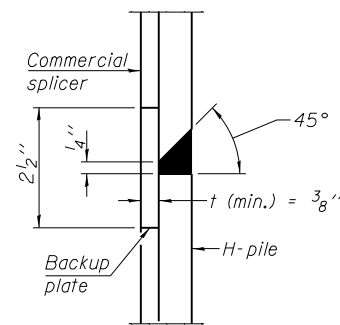


**STEEL PILE TABLE**

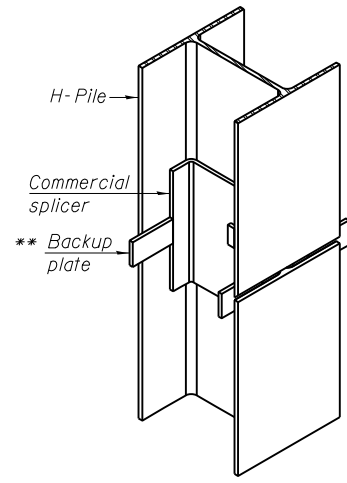
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



**ELEVATION**

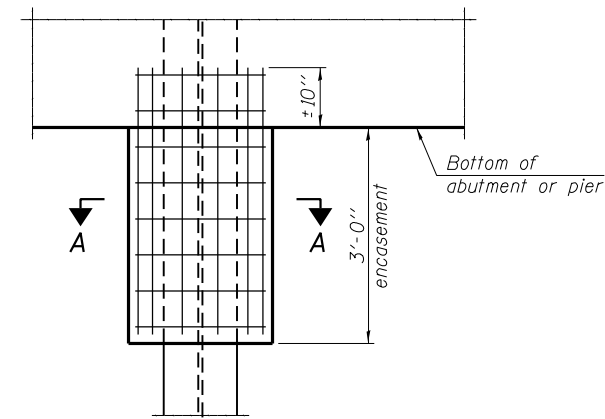


**DETAIL "B"**



**ISOMETRIC VIEW**

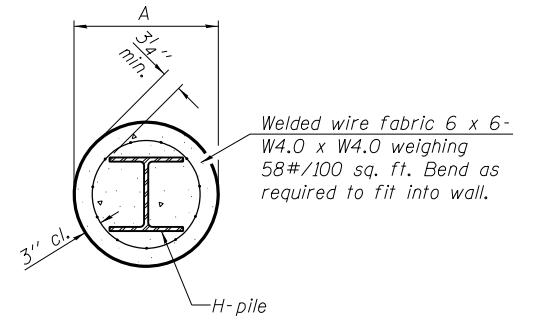
**WELDED COMMERCIAL SPLICE**



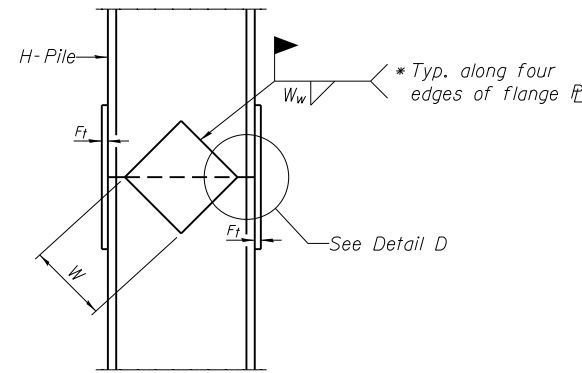
**ELEVATION**

**INDIVIDUAL PILE CONCRETE ENCASUREMENT**

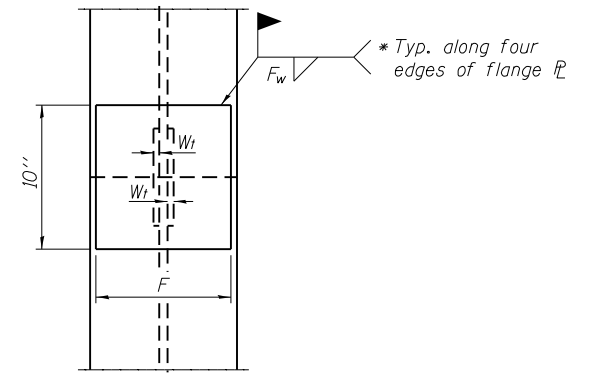
(Forms for encasement may be omitted when soil conditions permit).



**SECTION A-A**



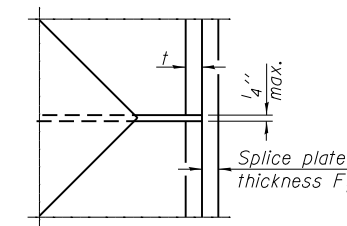
**ELEVATION**



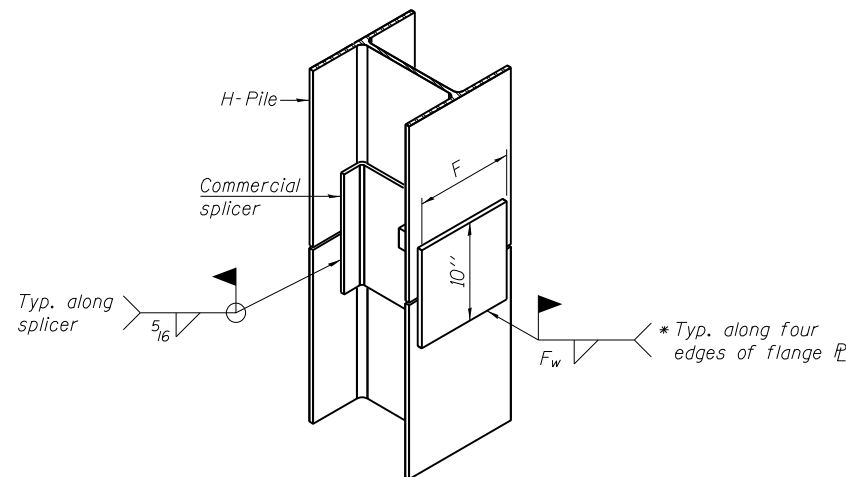
**END VIEW**

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

**WELDED PLATE FIELD SPLICE**



**DETAIL D**

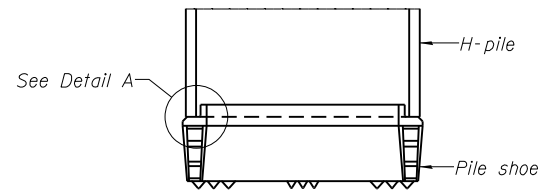


**ISOMETRIC VIEW**

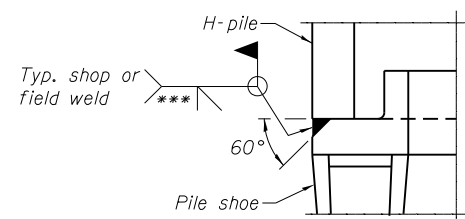
**WELDED COMMERCIAL SPLICE ALTERNATE**

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

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



**ELEVATION**



**DETAIL A**

**H-PILE SHOE ATTACHMENT**

F-HP 8-11-2017



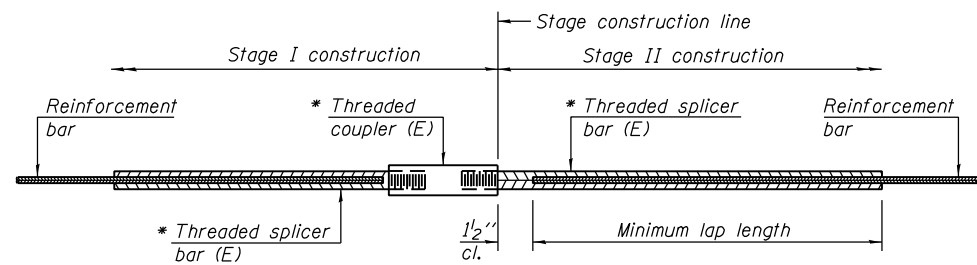
USER NAME =	DESIGNED - GBR	REVISED -
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	DATE -	REVISED -

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HP PILE DETAILS  
STRUCTURE NO. 017-0034

SHEET NO. 23 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	45
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

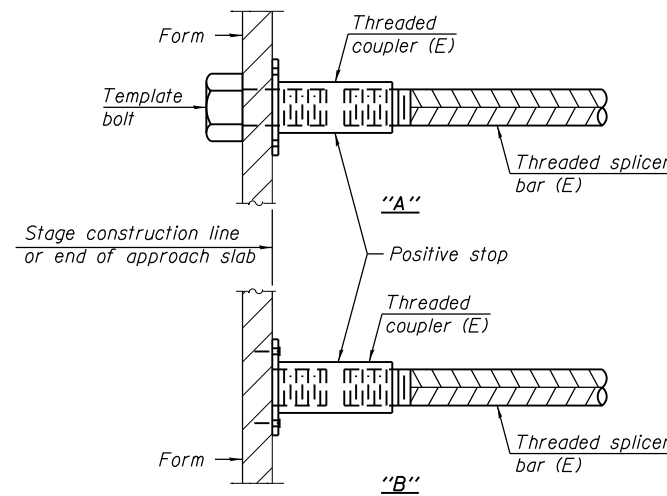


**STANDARD BAR SPLICER ASSEMBLY**

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

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

Location	Bar size	No. assemblies required	Minimum lap length
N. Approach Footing	5	40	3'-2"
N. Abut. Cap	8	12	5'-9"
N. Abut. Wall	5	6	3'-2"
N. Abut. Hatch Block	6	5	3'-10"
S. Approach Footing	5	40	3'-2"
S. Abut. Cap	8	12	5'-9"
S. Abut. Wall	5	6	3'-2"
S. Abut. Hatch Block	6	5	3'-10"
Top of Deck	6	8	3'-7"
Top of Deck	5	246	3'-0"
Bottom of Deck	5	160	3'-0"
N. Edge Beam	6	4	3'-7"
N. Edge Beam	5	1	3'-0"
S. Edge Beam	6	4	3'-7"
S. Edge Beam	5	1	3'-0"
N. Appr. Slab (Top)	5	32	3'-4"
N. Appr. Slab (Bott.)	8	42	4'-9"
S. Appr. Slab (Top)	5	32	3'-4"
S. Appr. Slab (Bott.)	8	42	4'-9"
Pier 1 Cap	8	10	5'-1"
Pier 1 Wall	5	30	3'-2"
Pier 2 Cap	8	10	5'-1"
Pier 2 Wall	5	30	3'-2"

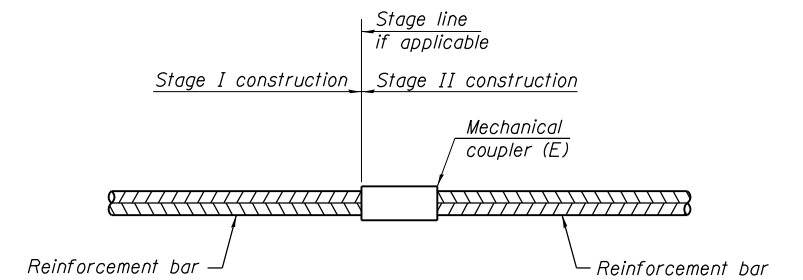


**INSTALLATION AND SETTING METHODS**

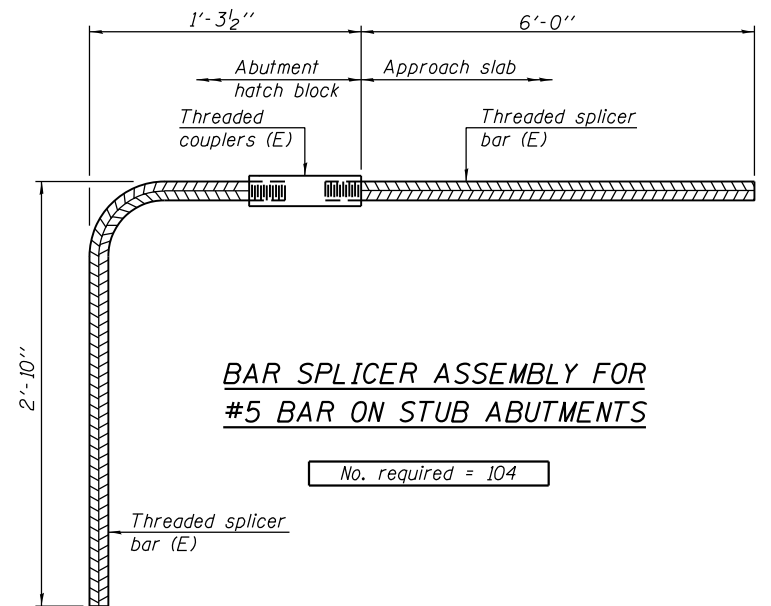
"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required = 104

**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



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**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 017-0034**

SHEET NO. 24 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	46
CONTRACT NO. 74915				

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SHEET INTENTIONALLY LEFT BLANK



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PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	DATE -	REVISED -

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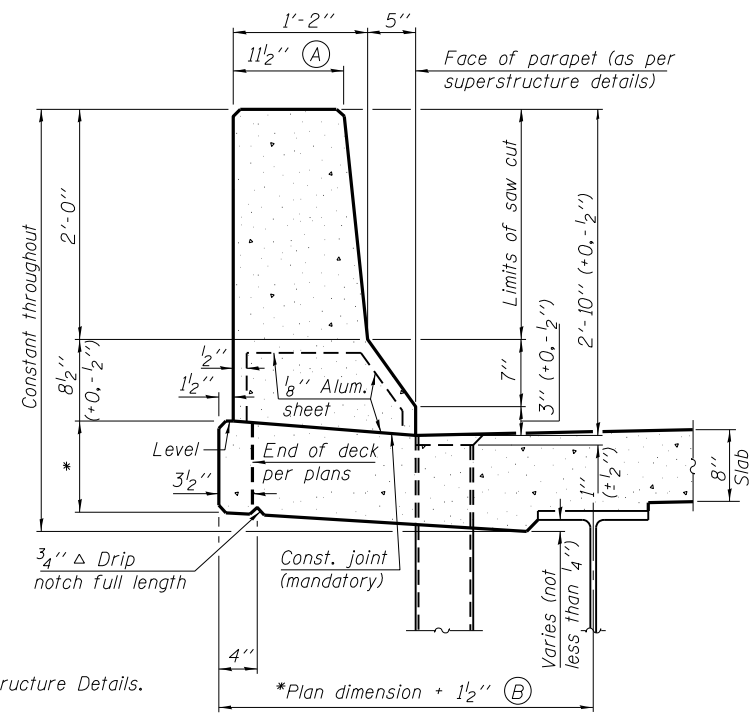
SHEET NO. 25 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74915	



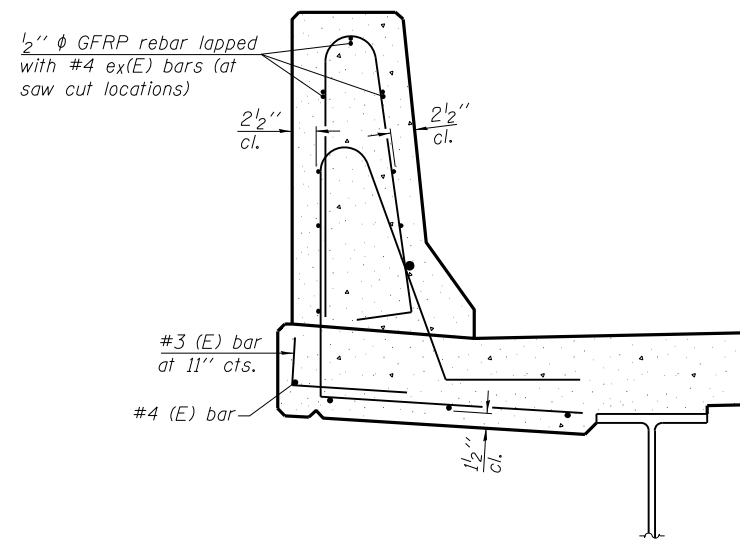
**GENERAL NOTES**

All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.



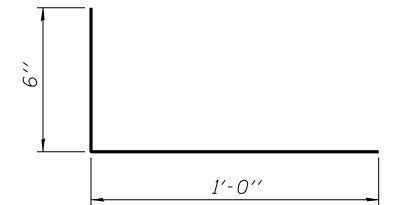
**34" F SHAPE PARAPET SECTION**  
(Showing dimensions)

\*See Superstructure Details.

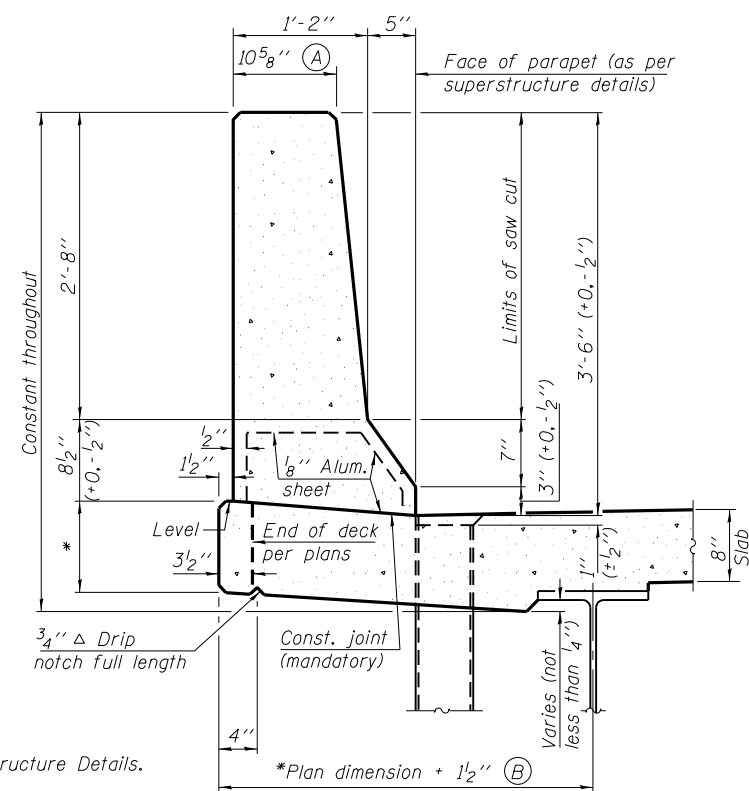


**SECTION**

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

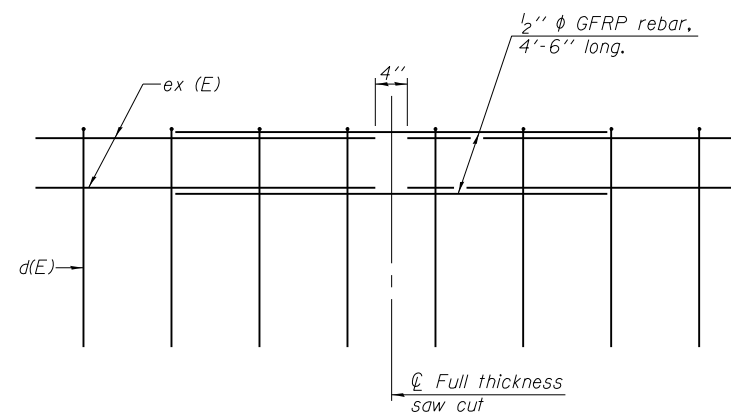


**#3 (E) BAR**



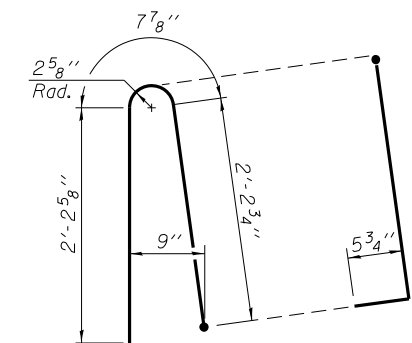
**42" F SHAPE PARAPET SECTION**  
(Showing dimensions)

\*See Superstructure Details.

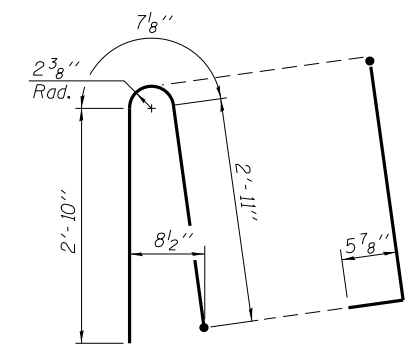


**GFRP REBAR STIFFENING DETAIL**

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



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



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

SFP 34-42

11-22-2016



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DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION  
STRUCTURE NO. 017-0034**

SHEET NO. 26 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	48
CONTRACT NO. 74915				

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation

### SOIL BORING LOG

Page 1 of 3

Date 10/10/07

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

SECTION (18BR)B-1 LOCATION Sec 13 & 24 in R 12 W, Sec 18 & 19 in R 11 W, SEC., TWP. 5 N, RNG., 3 PM

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

STRUCT. NO. Station	BORING NO. Station	D E P T H S	B L O W S	U C S Qu	M O I S T %	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: First Encounter Upon Completion After 24 Hrs.	D E P T H S	B L O W S	U C S Qu	M O I S T %
017-0005 491+38	1 490+44	7.50ft RT				Dry ft 462.55 ft	428.1 ft 449.5 ft 449.7 ft				
5.5" asphalt on 8.5" concrete pavement.											
Soft to medium, damp, brown, CLAY LOAM TILL.											
50/4" 50/11" 30 B 0.5 13											
No recovery this trip, rock stuck in sampler shoe.											
455.26 2 3 1.0 16											
Medium to stiff, damp, gray, SANDY LOAM.											
452.86 -10 2 1 1.0 20											
Medium to stiff, damp, gray, LOAM.											
450.06 0 0 0.5 23											
Soft to medium, damp, gray, SILTY LOAM.											
448.06 -15 1 2 0.4 17											
Soft, damp, gray marbled brown, SANDY LOAM.											
445.26 2 2 1.2 20											
Brown, fine grained, SAND.											
444.56 2 2 B											
Soft, damp, gray marbled red, CLAY LOAM.											
443.06 -20 1											
422.56 -40 14											
Soft, very damp, gray marbled red, LOAM. (continued)											
Hard, very moist, gray, CLAY LOAM TILL.											
Very dense, moist, gray, SANDSTONE.											
Borehole continued with rock coring.											

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 10/10/07

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

SECTION (18BR)B-1 LOCATION Sec 13 & 24 in R 12 W, Sec 18 & 19 in R 11 W, SEC., TWP. 5 N, RNG., 3 PM

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

STRUCT. NO. Station	BORING NO. Station	D E P T H S	B L O W S	U C S Qu	M O I S T %	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: First Encounter Upon Completion After 24 Hrs.	D E P T H S	B L O W S	U C S Qu	M O I S T %
017-0005 491+38	1 490+44	7.50ft RT				Dry ft 462.55 ft	428.1 ft 449.5 ft 449.7 ft				
Hard, very moist, gray, CLAY LOAM TILL.											
Hard, very moist, gray, CLAY LOAM TILL. (continued)											
Very dense, moist, gray, SANDSTONE.											
Borehole continued with rock coring.											

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 10/10/07

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

SECTION (18BR)B-1 LOCATION Sec 13 & 24 in R 12 W, Sec 18 & 19 in R 11 W, SEC., TWP. 5 N, RNG., 3 PM

COUNTY Crawford CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. Station	BORING NO. Station	D E P T H S	C O R E D I A M E T E R	R E C O V E R Y	R O C K T I M E	C O R E S T R E N G T H	C O R I N G B A R R E L T Y P E & S I Z E	N W c o r v d b l b b l s p l i t i n n e r
017-0005 491+38	1 490+44	7.50ft RT	2.06 in				NW, conv dbl bbl, split inner	
Gray, SANDSTONE w/ many Clay Shale partings and seams.								
Rock core sample B1C1 from 73.2' to 73.7' depth = 7.5 tsf Qu.								
Dark gray, moderately weathered, CLAY SHALE.								
Rock core sample B1C2 from 78.2' to 78.7' depth = 15.1 tsf Qu.								
Extent of exploration.								
Benchmark: BM 431 cut square on SW corner of existing structure 017-0005, Sta 490+90, 17' Lt = 463.15' elevation. Provided by Program Development.								

Color pictures of the cores Available on request  
Cores will be stored for examination until 10/10/08  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)



USER NAME =	DESIGNED - GBR	REVISOR -
CHECKED - VVR	REVISOR -	
PLOT SCALE =	DRAWN - JRP	REVISOR -
PLOT DATE =	DATE -	REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
STRUCTURE NO. 017-0034

SHEET NO. 27 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	49
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

**SOIL BORING LOG**

Page 1 of 3  
Date 10/11/07

ROUTE FAP 332 (IL 1) DESCRIPTION Sugar Creek LOGGED BY E. Sandschafer  
SECTION (18BR)B-1 LOCATION Sec 13 & 24 in R 12 W, Sec 18 & 19 in R 11 W, SEC., TWP. 5 N, RNG., 3 PM  
COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Soil Description				D (ft)	B (/6")	U (tsf)	M (%)
								Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter				
017-0005 491+38	2 492+26	8.00ft Lt	482.55					Dry	462.55	416.6	445.1				
				461.35				Very soft, very damp, gray, SILTY LOAM. (continued)		1	0.3	34			
				460.35				Gray, CLAY.		1	B				
				455.55				Medium, damp, gray marbled brown, CLAY LOAM w/ some fine gravel and wood.		2	0.7	15			
				450.55				Soft, damp, gray, LOAM w/ wood chunks.		0	0.4	13			
				448.05				Soft, damp, gray, SILTY LOAM w/ wood chunks.		2	0.3	24			
				445.25				Gray, fine grained, SAND.		1					
				443.05				Stiff, damp, gray marbled brown, CLAY LOAM.		2	1.5	25			
				432.55				Medium, damp, gray, CLAY LOAM TILL.		2	0.6	18			
				428.55				Hard, damp, gray, CLAY LOAM TILL.		13					
				427.55				Gray, SANDY LOAM.		13	+4.5	9			
				422.55				Hard, damp, gray, CLAY LOAM TILL.		21	PP				
				422.55						40	18				

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 10/11/07

ROUTE FAP 332 (IL 1) DESCRIPTION Sugar Creek LOGGED BY E. Sandschafer  
SECTION (18BR)B-1 LOCATION Sec 13 & 24 in R 12 W, Sec 18 & 19 in R 11 W, SEC., TWP. 5 N, RNG., 3 PM  
COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Soil Description				D (ft)	B (/6")	U (tsf)	M (%)
								Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter				
017-0005 491+38	2 492+26	8.00ft Lt	482.55					Dry	462.55	416.6	445.1				
				50	6.7	9		Hard, damp, gray, CLAY LOAM TILL.		9	4.6	13			
				50	S					15	B				
				45	13					27	5.3	10			
				40						40	S				
				40						21	6.0	10			
				40						7	1.3	14			
				383.05						30					

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 3 of 3  
Date 10/11/07

ROUTE FAP 332 (IL 1) DESCRIPTION Sugar Creek LOGGED BY E. Sandschafer  
SECTION (18BR)B-1 LOCATION Sec 13 & 24 in R 12 W, Sec 18 & 19 in R 11 W, SEC., TWP. 5 N, RNG., 3 PM  
COUNTY Crawford DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Soil Description				D (ft)	B (/6")	U (tsf)	M (%)
								Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter				
017-0005 491+38	2 492+26	8.00ft Lt	482.55					Dry	462.55	416.6	445.1				
				382.15				Very dense, moist, gray, SANDSTONE (continued)		50/3		8			
				50/2				Extent of exploration.							
				-85				Benchmark: BM 431 cut square on SW corner of existing structure 017-0005, Sta 490+90, 17' Lt = 463.15' elevation. Provided by Program Development.							
				-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)



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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

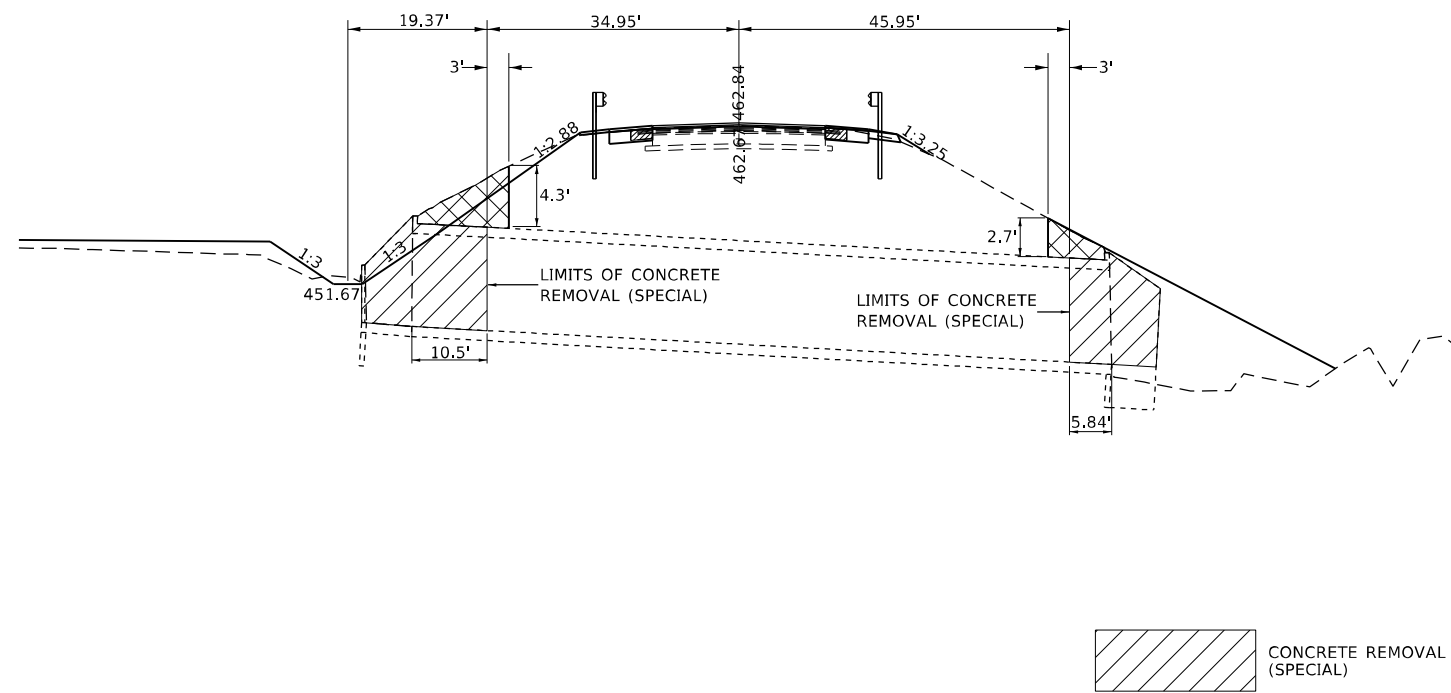
**BORING LOGS  
STRUCTURE NO. 017-0034**

SHEET NO. 28 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	50
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

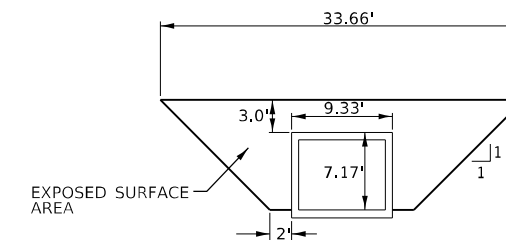
### CONCRETE REMOVAL (SPECIAL)

STA. 489+93.66

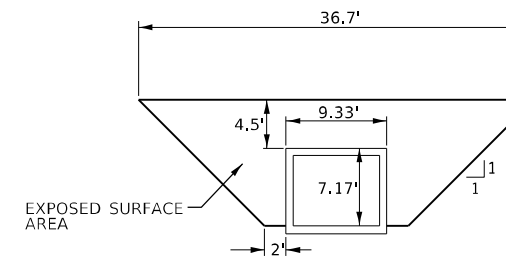


### TEMPORARY SOIL RETENTION SYSTEM

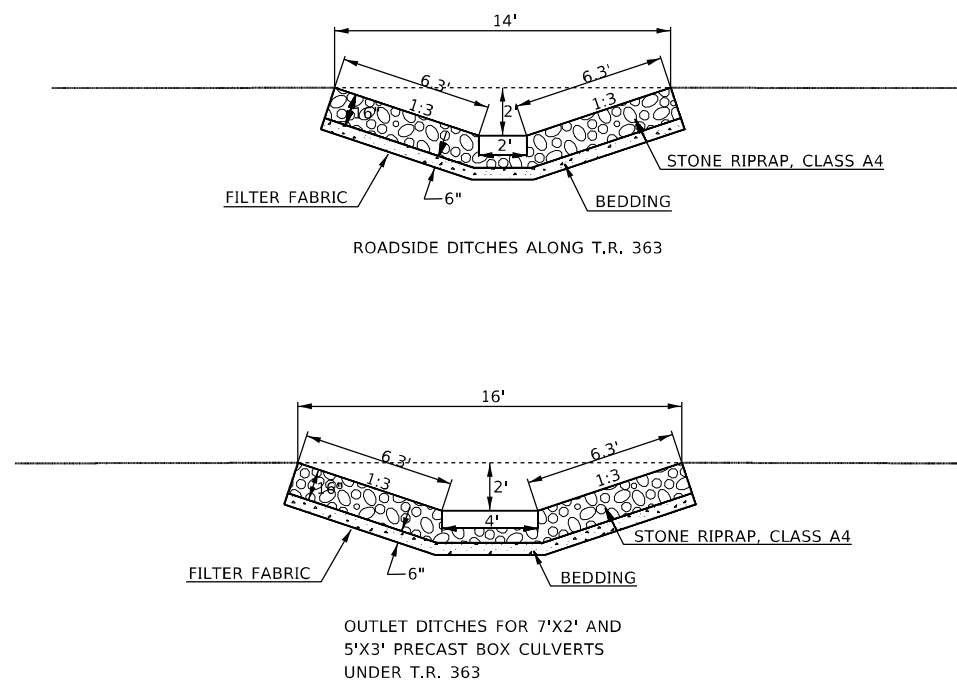
LOCATION 2, STA. 489+93.66 RT.



LOCATION 2, STA. 489+93.66 LT.

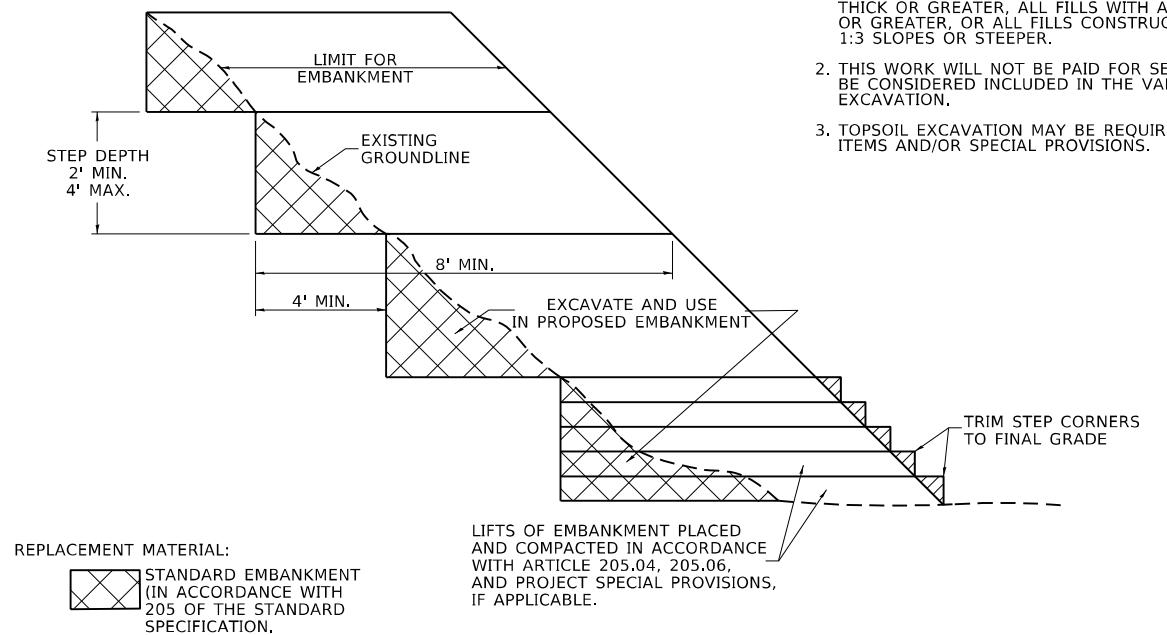


### DITCH DETAILS



### 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 SEPARATELY 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.

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	DATE -	REVISED -

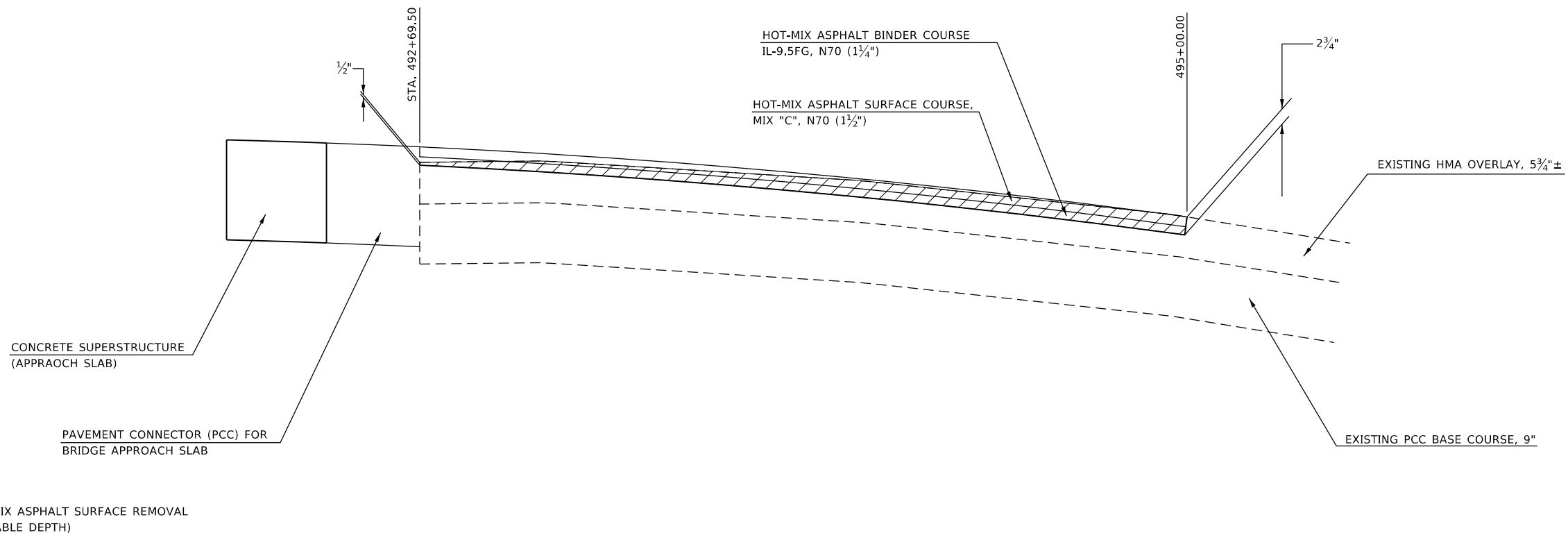
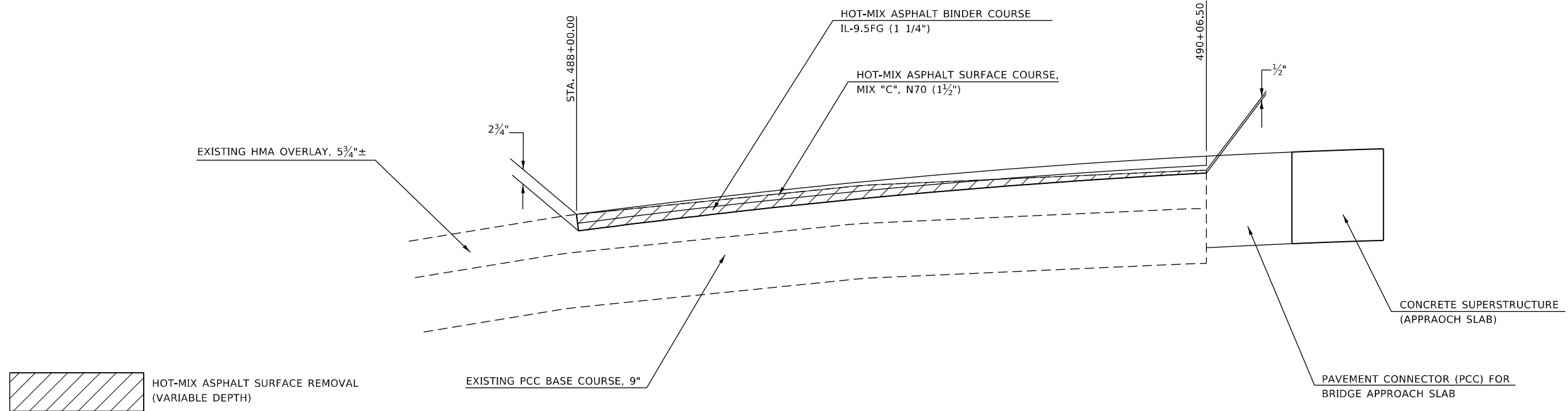
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

#### DISTRICT DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	51
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

# MILLING AND RESURFACING DETAIL



MODEL NUMBER: MAMES  
FILE NAME: 811E15

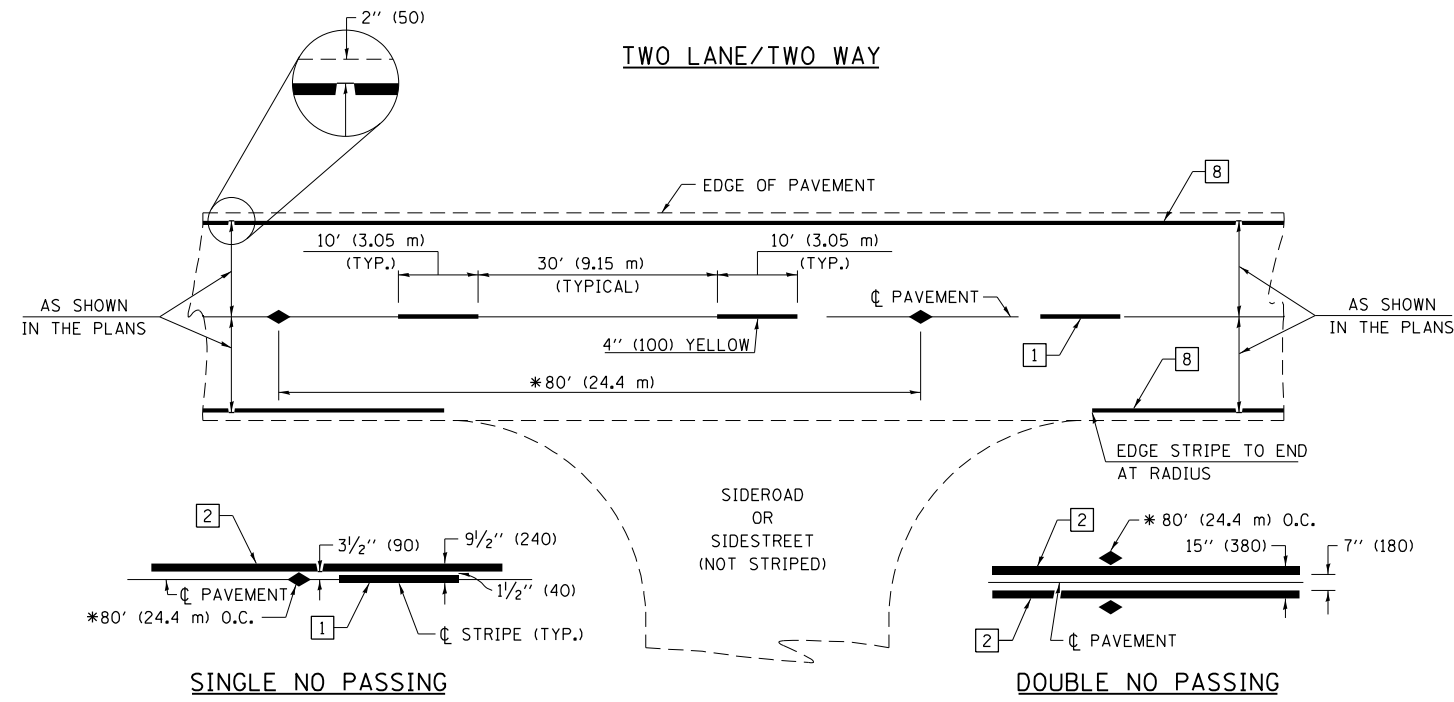
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT DETAILS**

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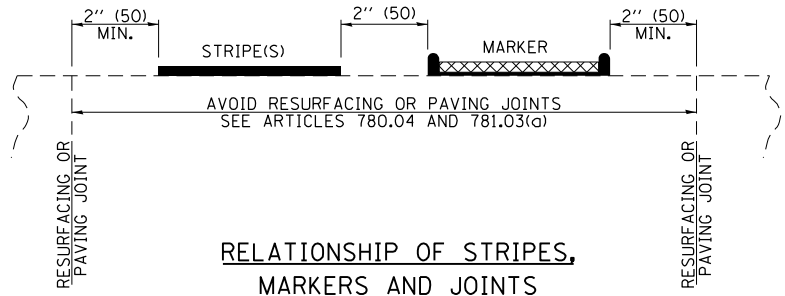
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	52
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



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

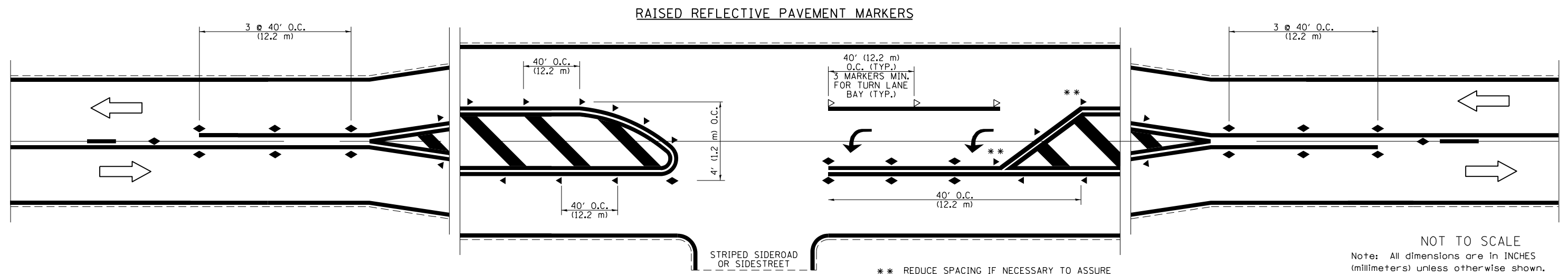
\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



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

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DRAWN -	REVISED -	
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PLOT DATE = 7/30/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

DISTRICT 7 DETAIL NO. 78000001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	53
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

Benchmark:

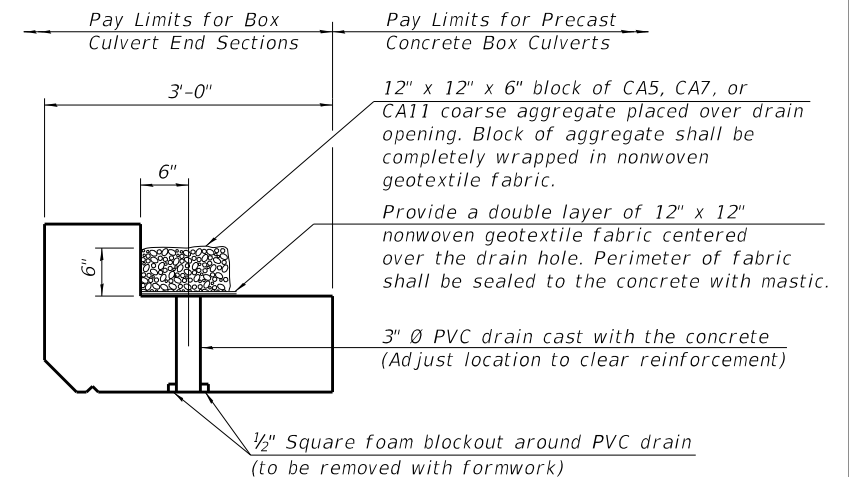
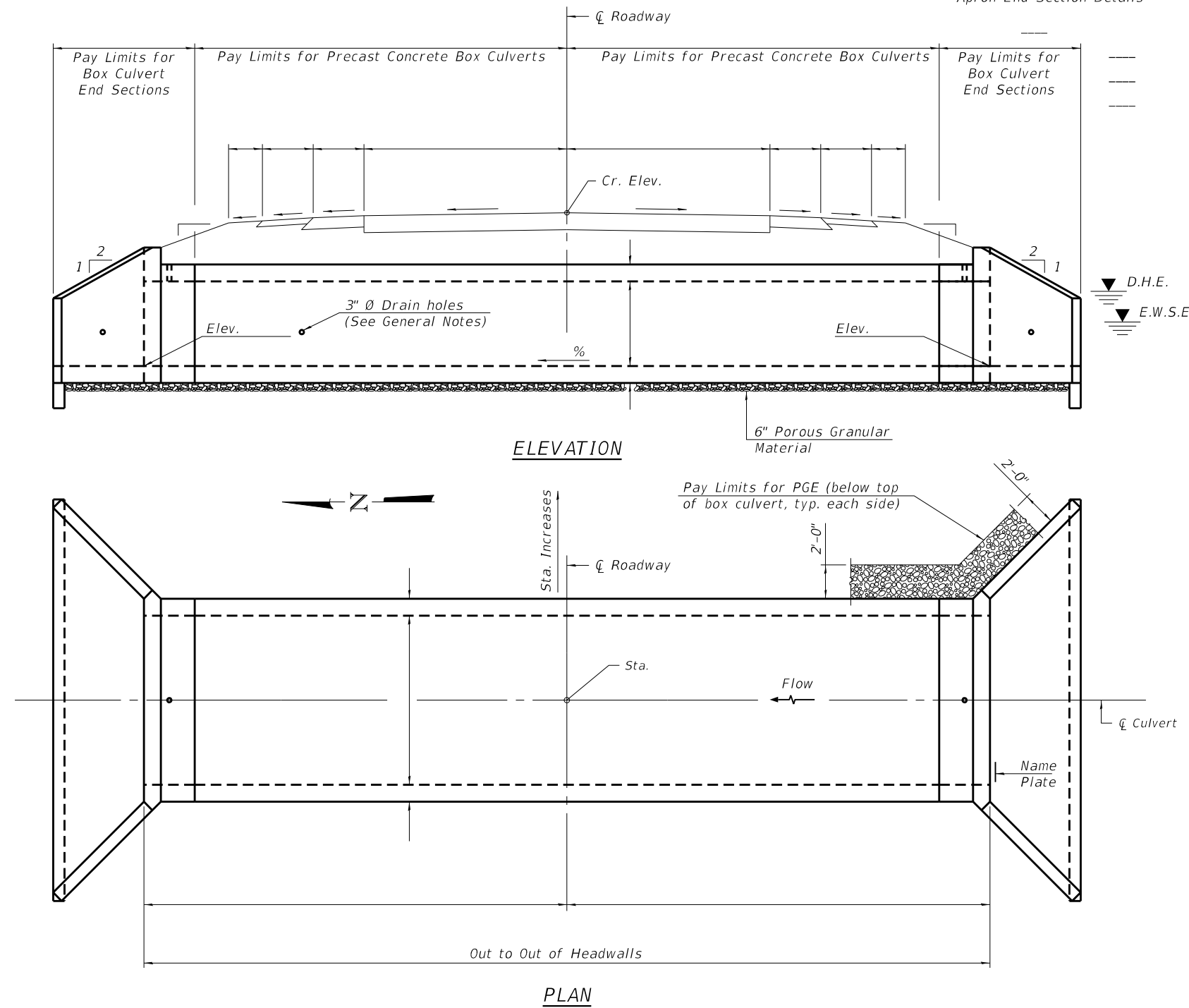
Existing Structure:

**INDEX OF SHEETS**

- 1. General Plan and Elevation
- 2.-3. Precast Concrete Box Culvert Apron End Section Details

**GENERAL NOTES**

The design fill height for this box is      ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.  
 The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.  
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.  
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.



**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

**PROFILE GRADE**

**DESIGN SPECIFICATIONS**  
 2012 AASHTO LRFD Bridge Design Specifications  
 6th Edition with 2013 interims

**LOADING HL-93**

**DESIGN STRESSES**

**PRECAST UNITS**  
 $f'c = 5,000 \text{ psi}$   
 $f_y = 65,000 \text{ psi}$  (Welded Wire Reinforcement)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Box Culvert End Sections, Culvert 1	Each	2
Precast Concrete Box Culverts, 7X2	Foot	30
Box Culvert End Sections, Culvert 2	Each	2
Precast Concrete Box Culverts, 5X3	Foot	46
Porous Granular Embankment	Cu. Yd.	6.5

**GENERAL PLAN AND ELEVATION**  
IL RTE. RT 1 OVER SUGAR CREEK  
F.A. P 332 SEC. 18B-1  
CRAWFORD COUNTY

MODEL NUMBER: MAMES  
FILE NAME: 311215

USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = 5SCALES	DRAWN - _____	REVISED - _____
PLOT DATE = SDATES	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

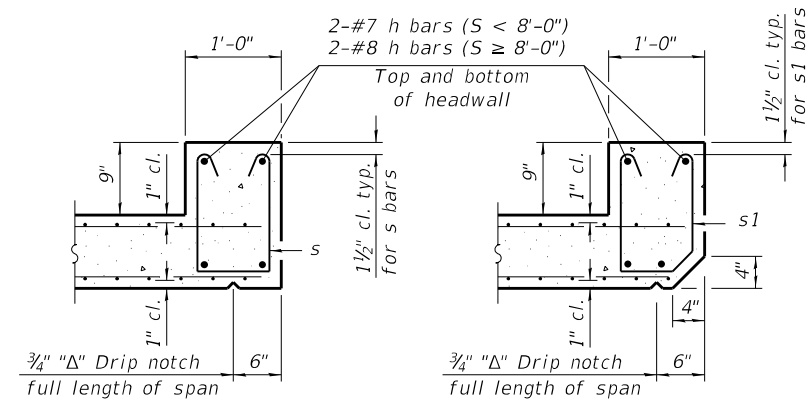
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT WITH APRON END SECTION**  
 SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	53A
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

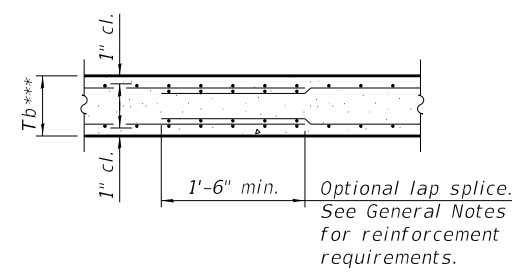






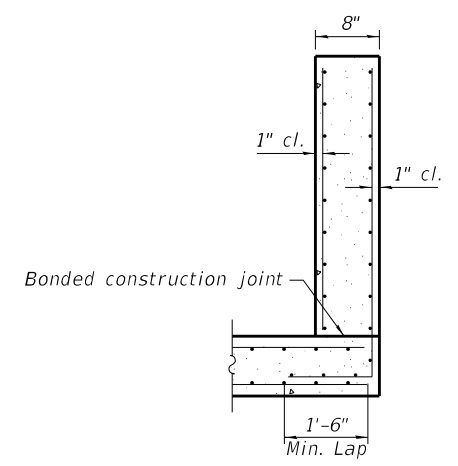
**SECTION B-B**  
(Top slab at downstream end)

**SECTION B-B**  
(Top slab at upstream end)

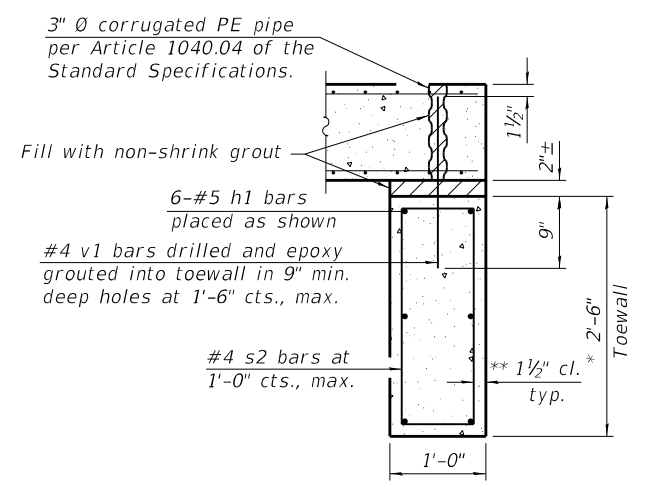


**SECTION B-B**  
(Bottom Slab)

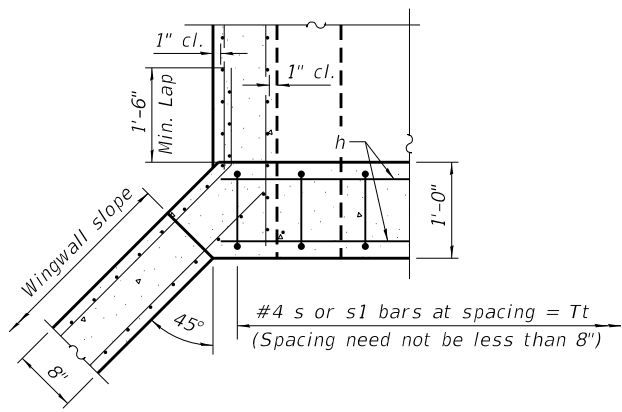
\*\*\* This dimension shall be increased by 2" for CIP construction.



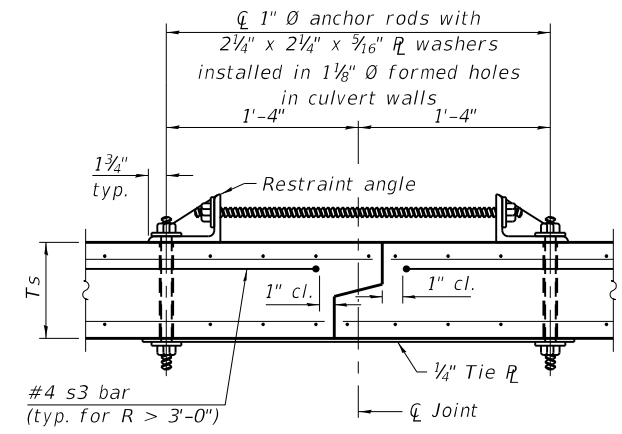
**SECTION C-C**



**SECTION D-D**



**SECTION E-E**



**SECTION F-F**  
(Showing culvert tie details)

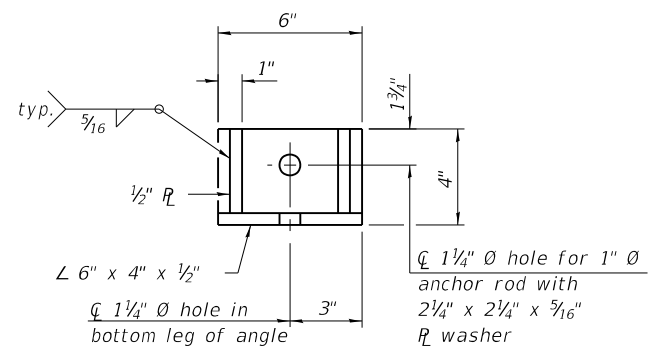
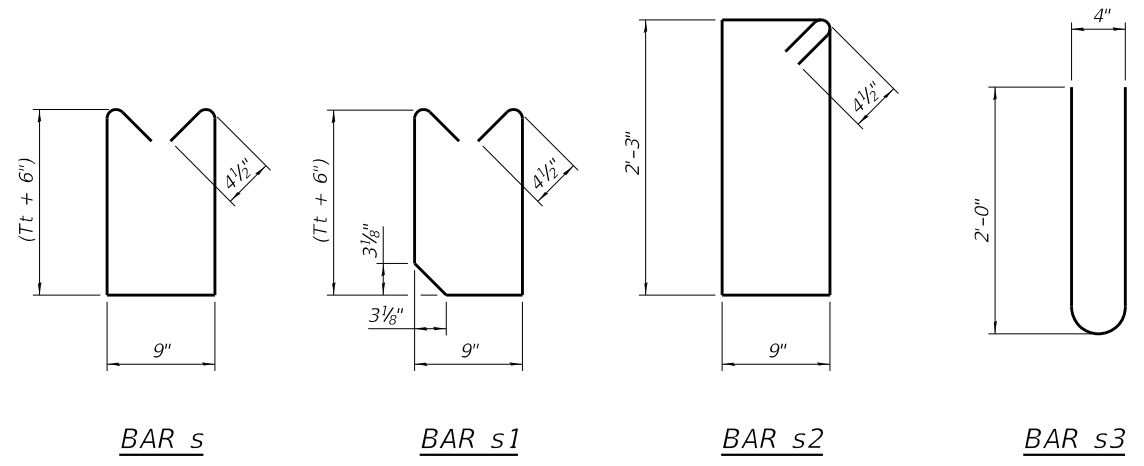
**TOEWALL CONSTRUCTION SEQUENCE**

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

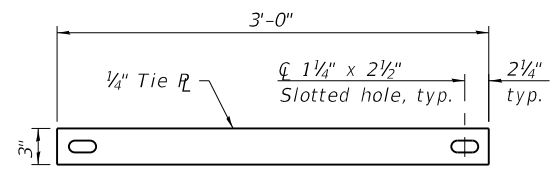
\* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:  
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**

(Sheet 2 of 2)

MODEL NUMBER: MAMTFS  
FILE NUMBER: 311EUS

SCB-AES

2-17-2017

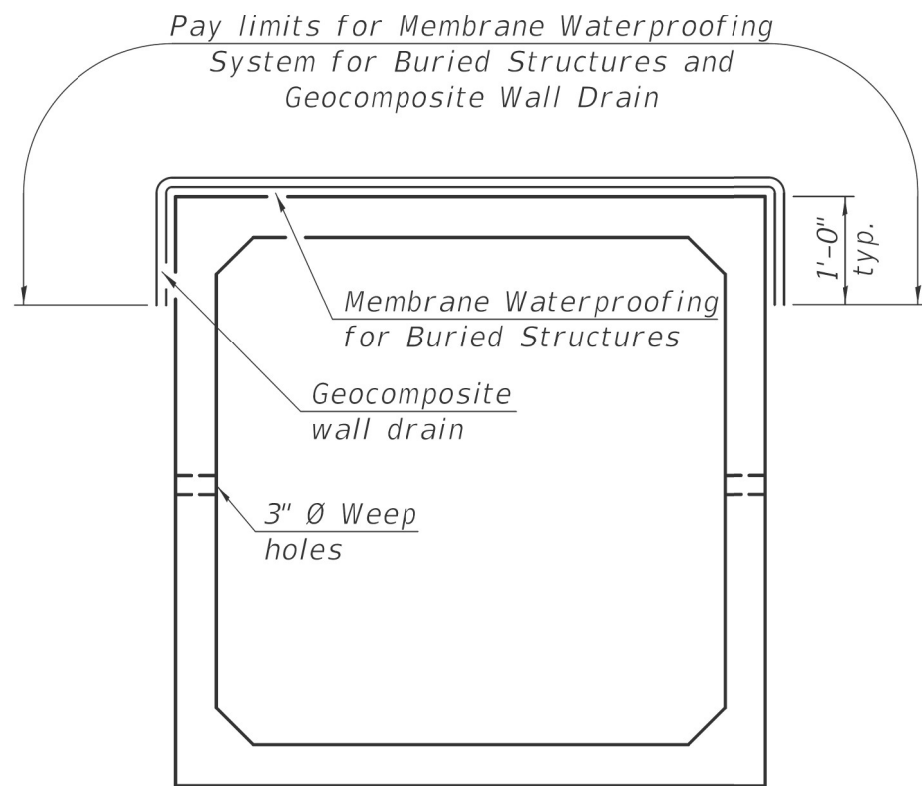
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PLOT DATE = SDATES	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - STRUCTURE NO. \_\_\_\_\_

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	53C
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



**PRECAST CONCRETE**

**BOX CULVERT**

Fill Height  $\leq$  3 ft.

For fill heights > 3 ft., omit Membrane Waterproofing System for Buried Structures and Geocomposite Wall Drain.

**Note:**

Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.

MODEL NAME: MAMMS  
FILE NAME: 311E15

USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MEMBRANE WATERPROOFING  
SYSTEM FOR PRECAST CULVERTS FOR CULVERT 1**

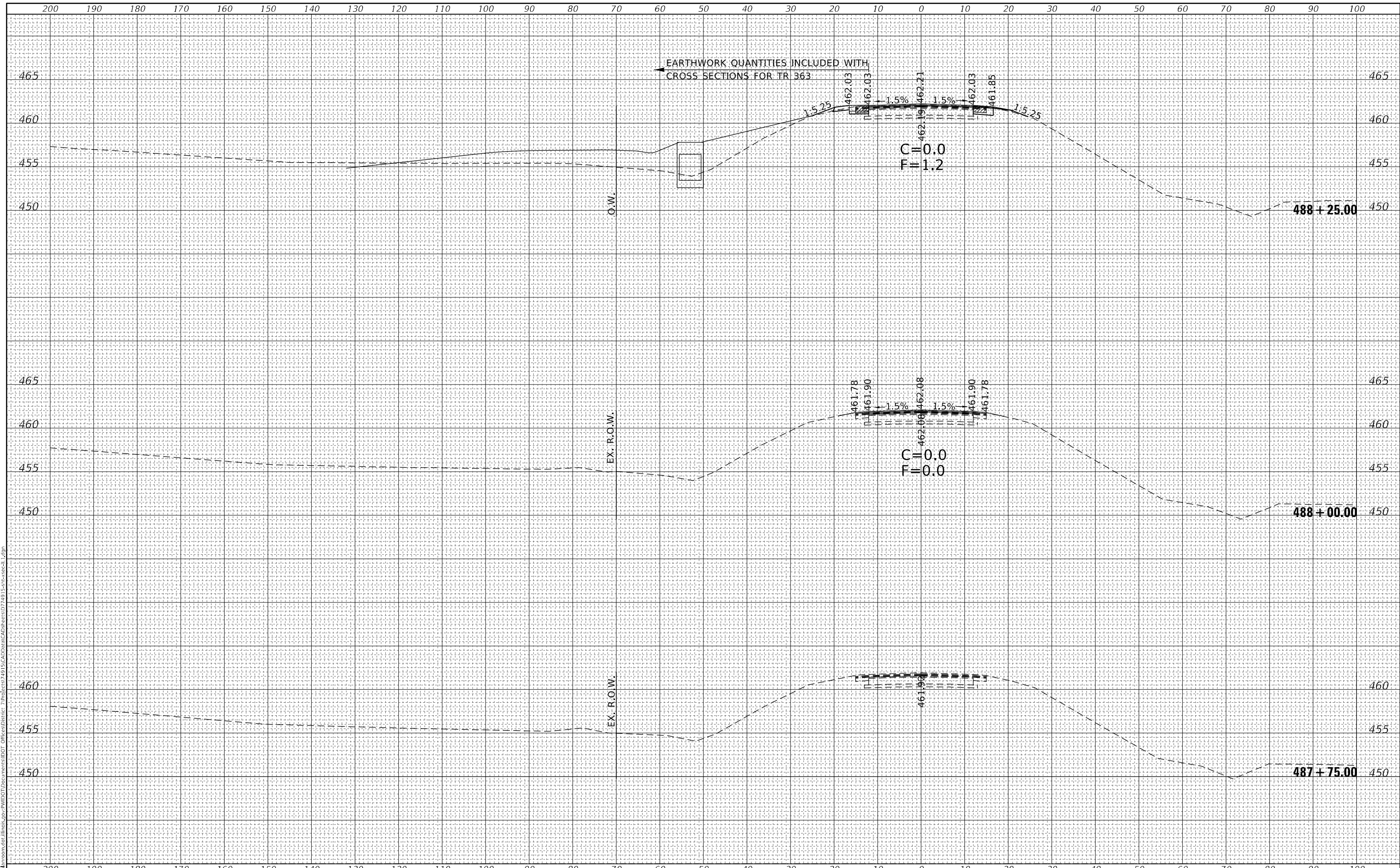
SCALE: \_\_\_\_\_ SHEET \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	53D
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
FILE NAME: D:\data\mason.dwg  
PLOT DATE: 7/30/2020  
PROJECT: 74915\CAD\Drawings\Drawings\74915\cross-section.dgn



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
F.A.P. 332 (IL RTE 1)**

SCALE: 10H:5V    SHEET 1 OF 13 SHEETS    STA. 487+75.00 TO STA. 488+25.00

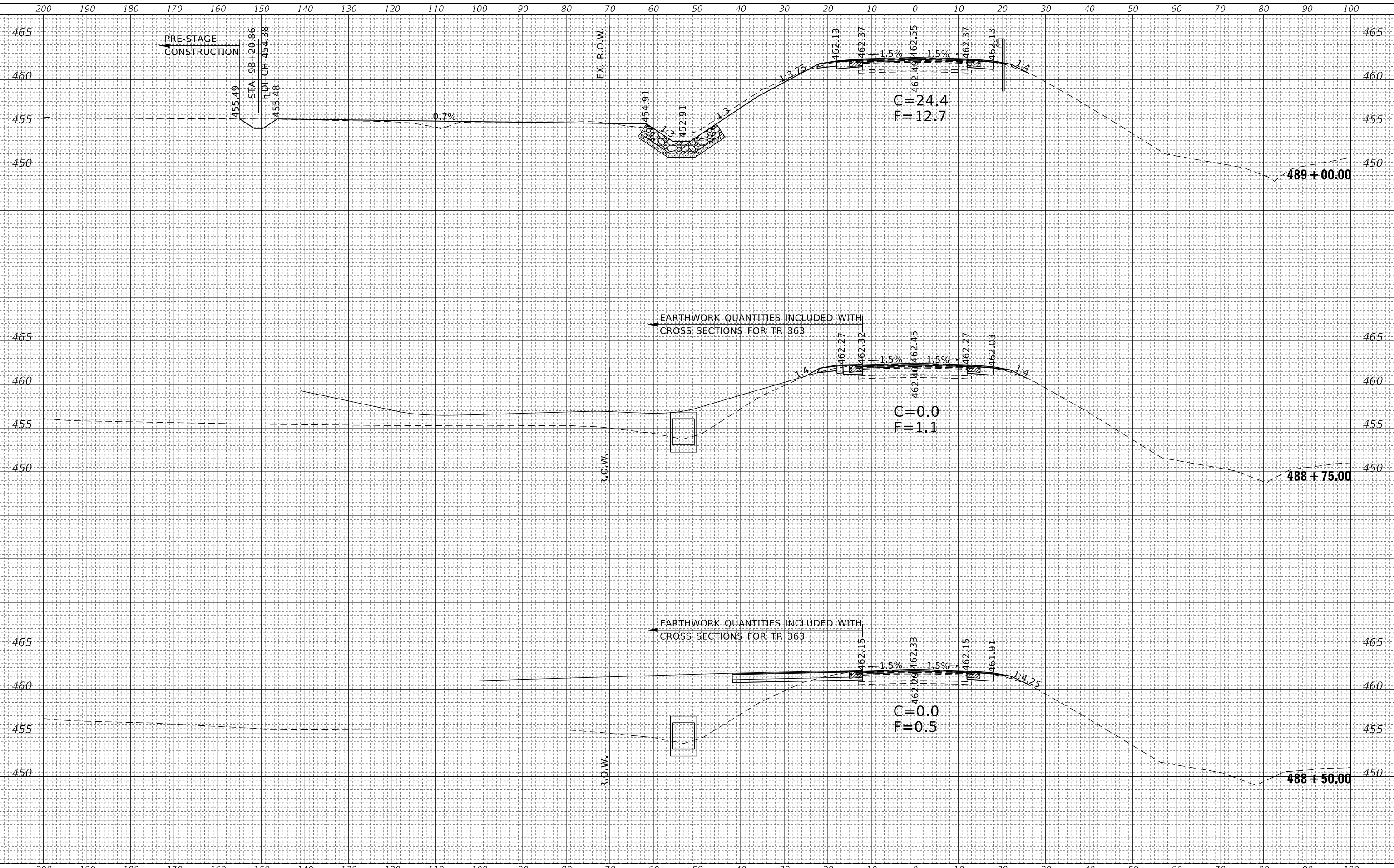
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	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 54
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

MODEL: Default  
FILE NAME: D:\data\mason.dwg  
PLOT DATE: 7/30/2020



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,000' = 1"	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 10H:5V	SHEET 2	OF 13 SHEETS	STA. 488+50.00	TO STA. 489+00.00
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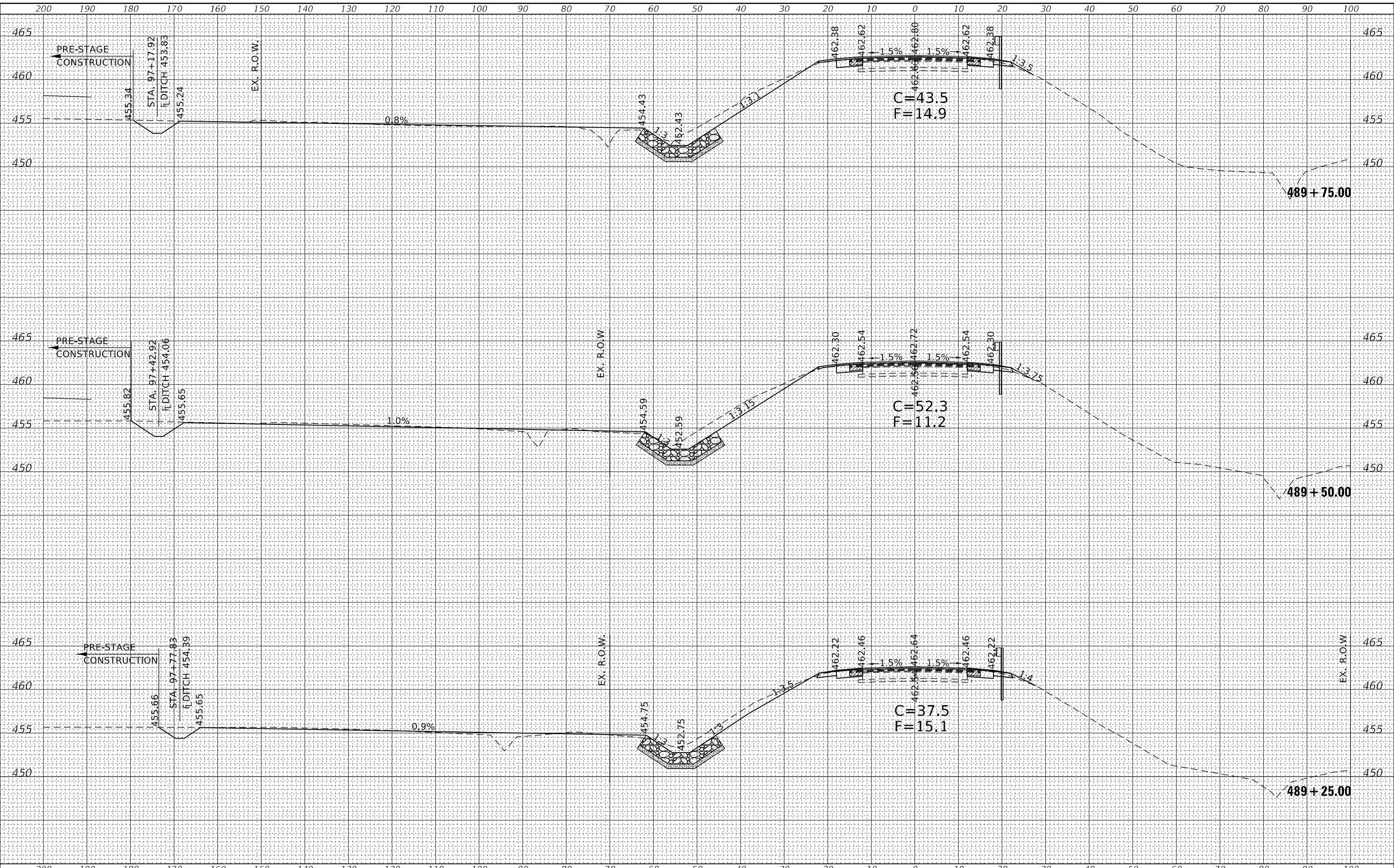
**CROSS SECTIONS  
F.A.P. 332 (IL RTE 1)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	55
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74915\CAD\Drawings\74915\cross-section.dwg



USER NAME = stefenmk
PLOT SCALE = 20,0000 * / in.
PLOT DATE = 7/30/2020

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: 10H:5V	SHEET 3	OF 13 SHEETS	STA. 489+25.00	TO STA. 489+75.00
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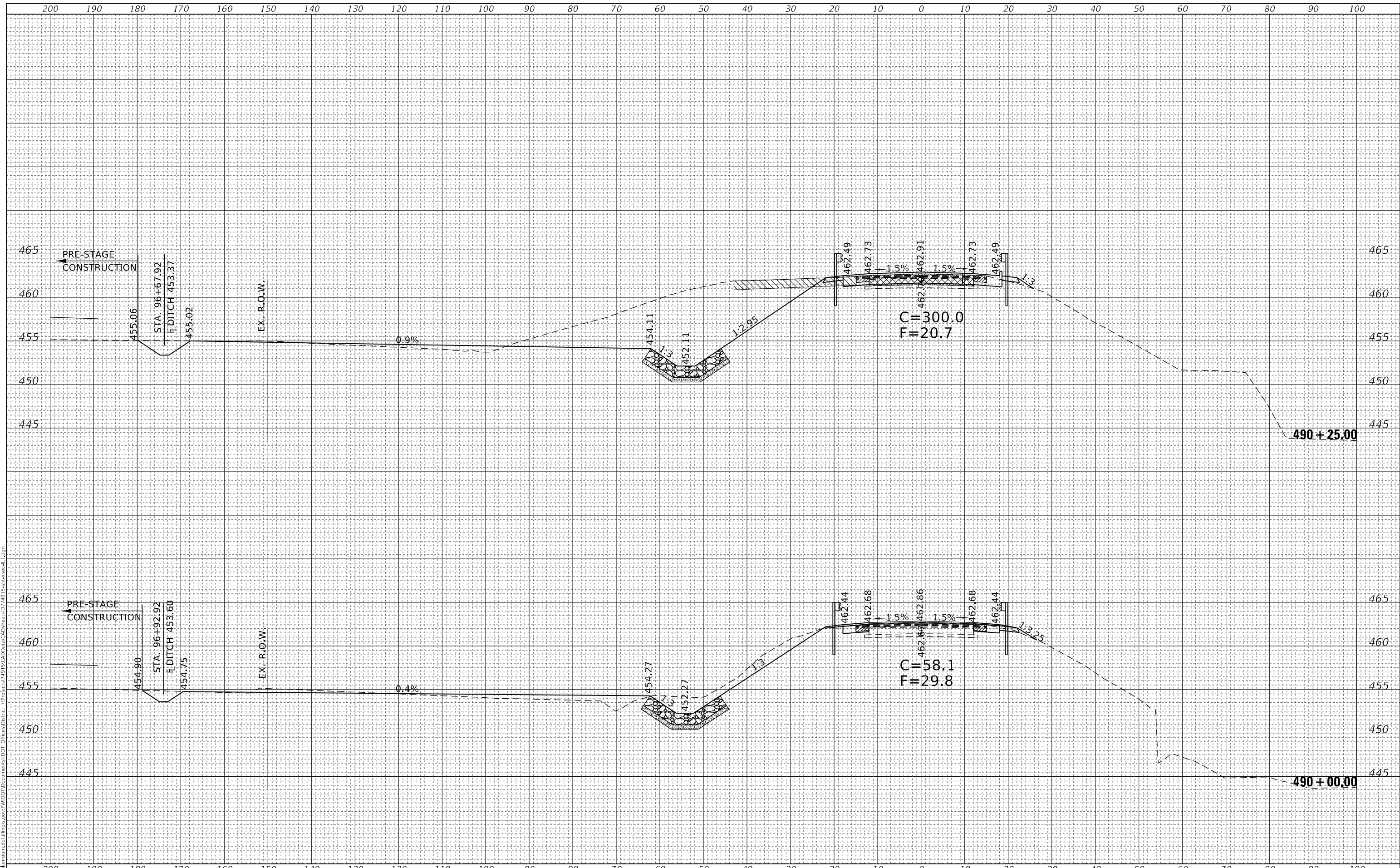
**CROSS SECTIONS  
 F.A.P. 332 (IL RTE 1)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	56
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74915\CAD\Drawings\74915\sect-secall.dgn



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

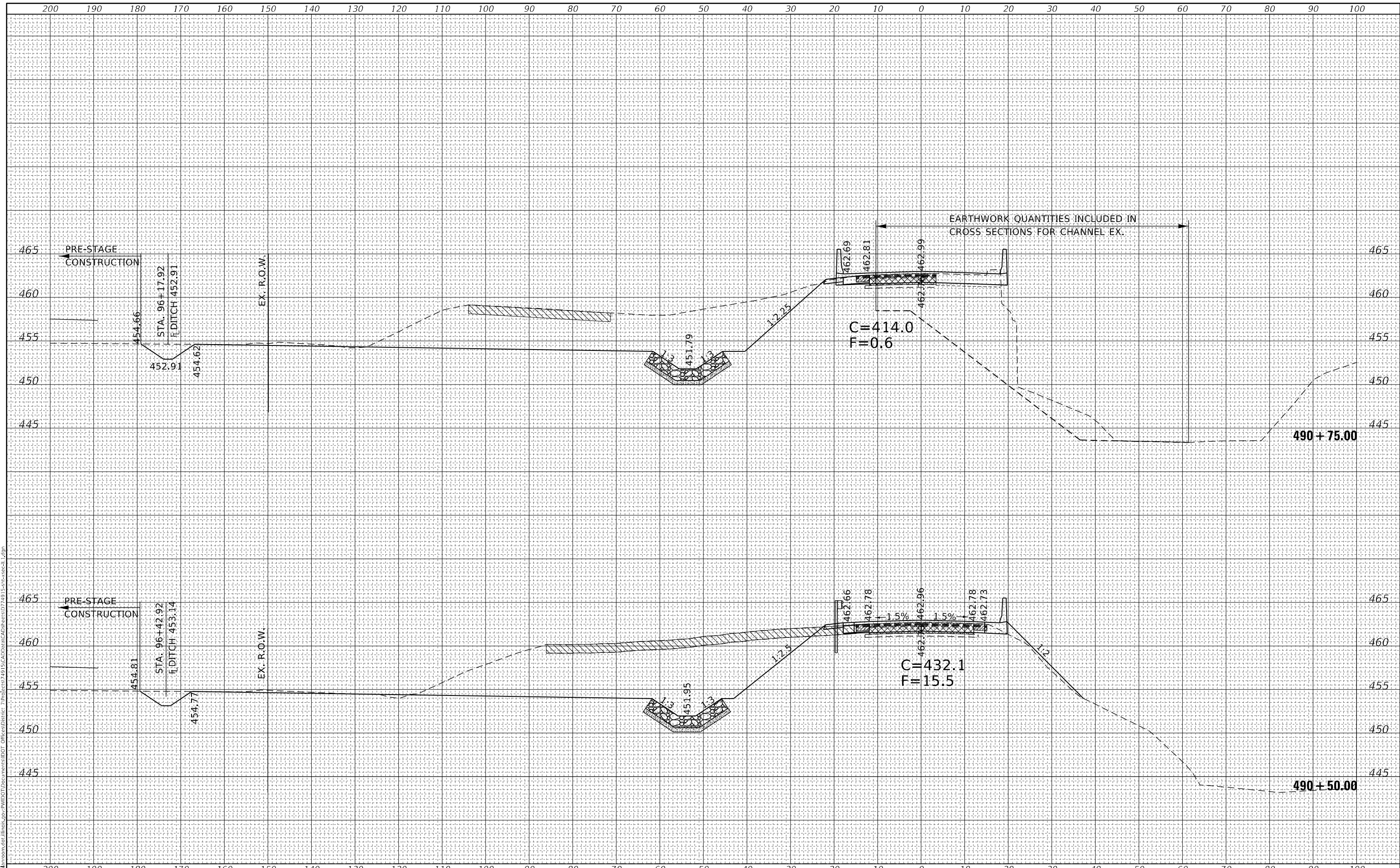
<b>CROSS SECTIONS</b>	
<b>F.A.P. 332 (IL RTE 1)</b>	
SCALE: 10H:5V	SHEET 4 OF 13 SHEETS
STA. 490+00.00 TO STA. 490+25.00	

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 57
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74915\CAD\Drawings\74915\cross-section.dgn



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

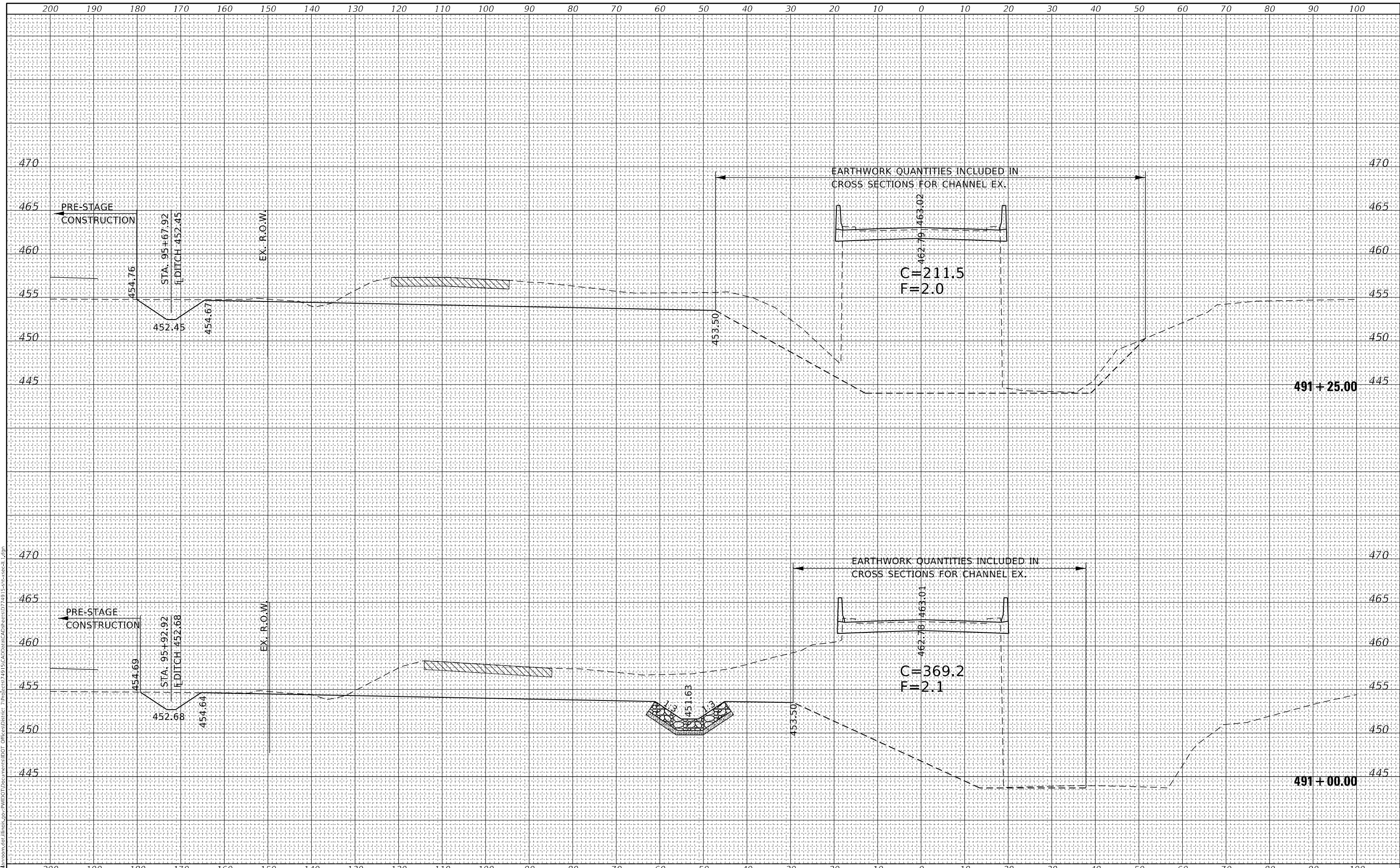
**CROSS SECTIONS  
 F.A.P. 332 (IL RTE 1)**  
 SCALE: 10H:5V SHEET 5 OF 13 SHEETS STA. 490+50.00 TO STA. 490+75.00

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 58
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74913\CAD\Drawings\74913\sect-secall.dgn



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 F.A.P. 332 (IL RTE 1)**

SCALE: 10H:5V    SHEET 6 OF 13 SHEETS    STA. 491+00.00 TO STA. 491+25.00

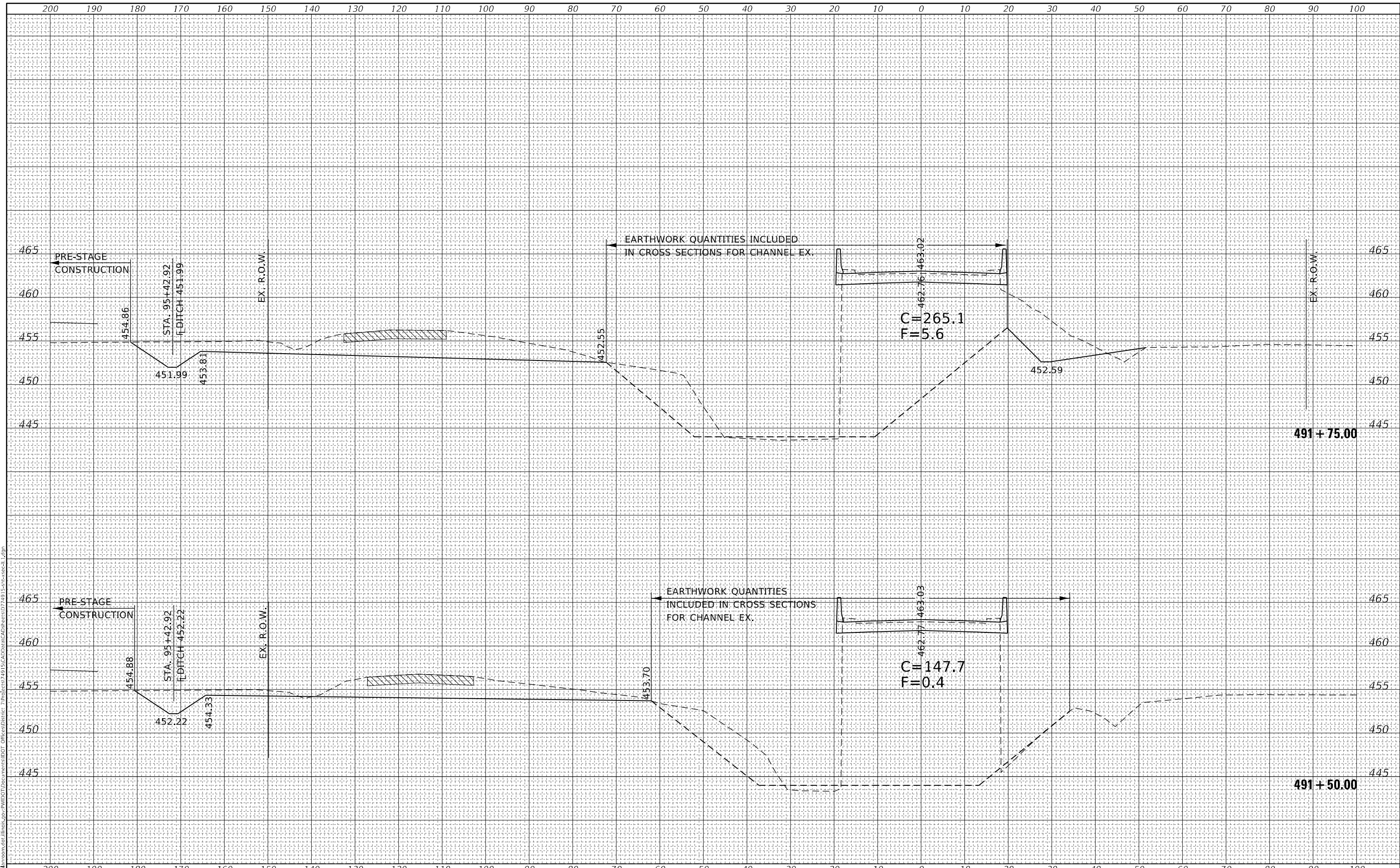
F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 59
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74915\CAD\Drawings\74915\sectal.dgn



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 F.A.P. 332 (IL RTE 1)**

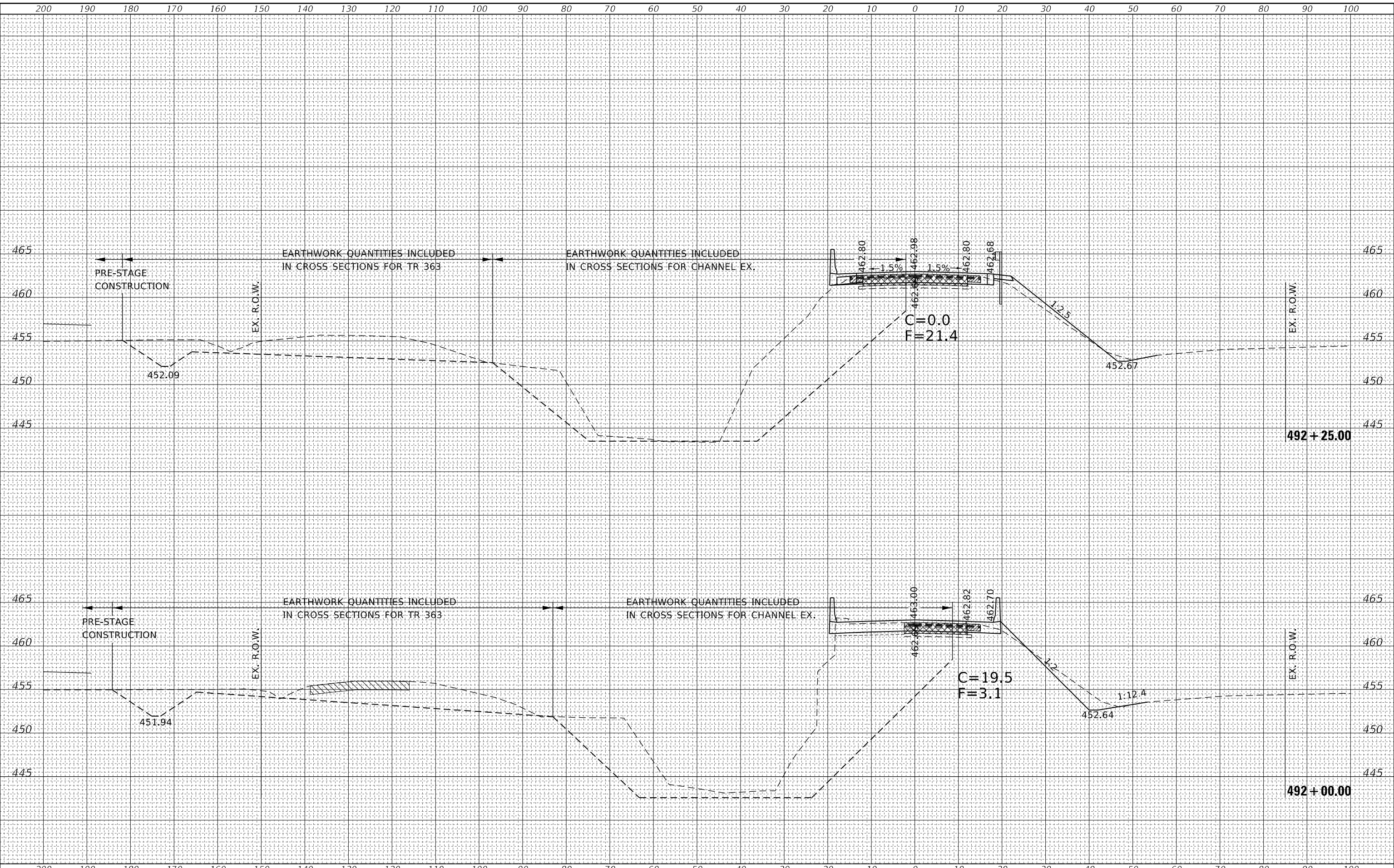
SCALE: 10H:5V    SHEET 7 OF 13 SHEETS    STA. 491+50.00 TO STA. 491+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	60
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
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 PROJECT: 74915\CAD\Drawings\Drawings\74915\sect-secall.dgn



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

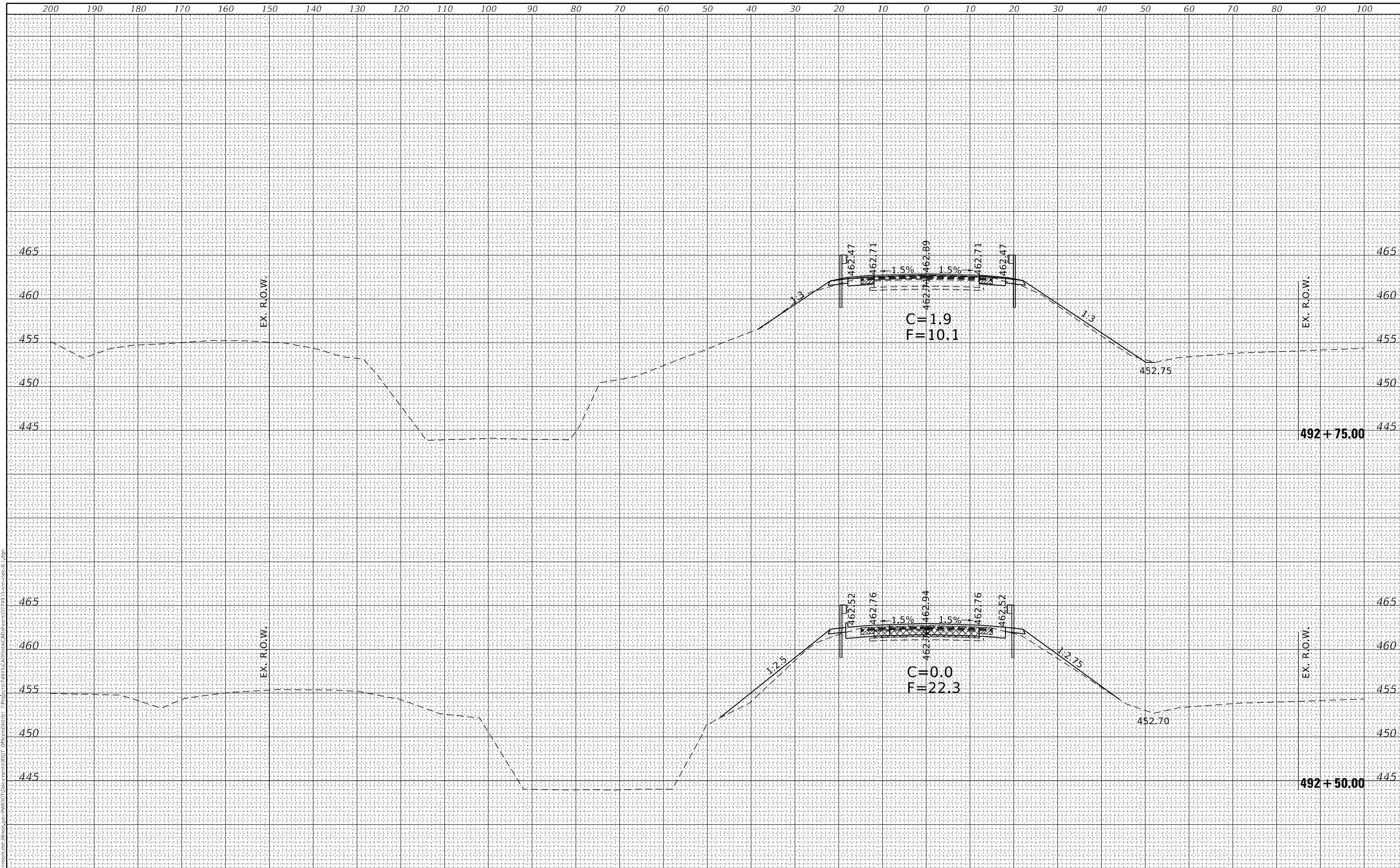
**CROSS SECTIONS  
 F.A.P. 332 (IL RTE 1)**  
 SCALE: 10H:5V SHEET 8 OF 13 SHEETS STA. 492+00.00 TO STA. 492+25.00

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 61
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74915\CAD\Drawings\74915\sect-secall.dgn



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 F.A.P. 332 (IL RTE 1)**

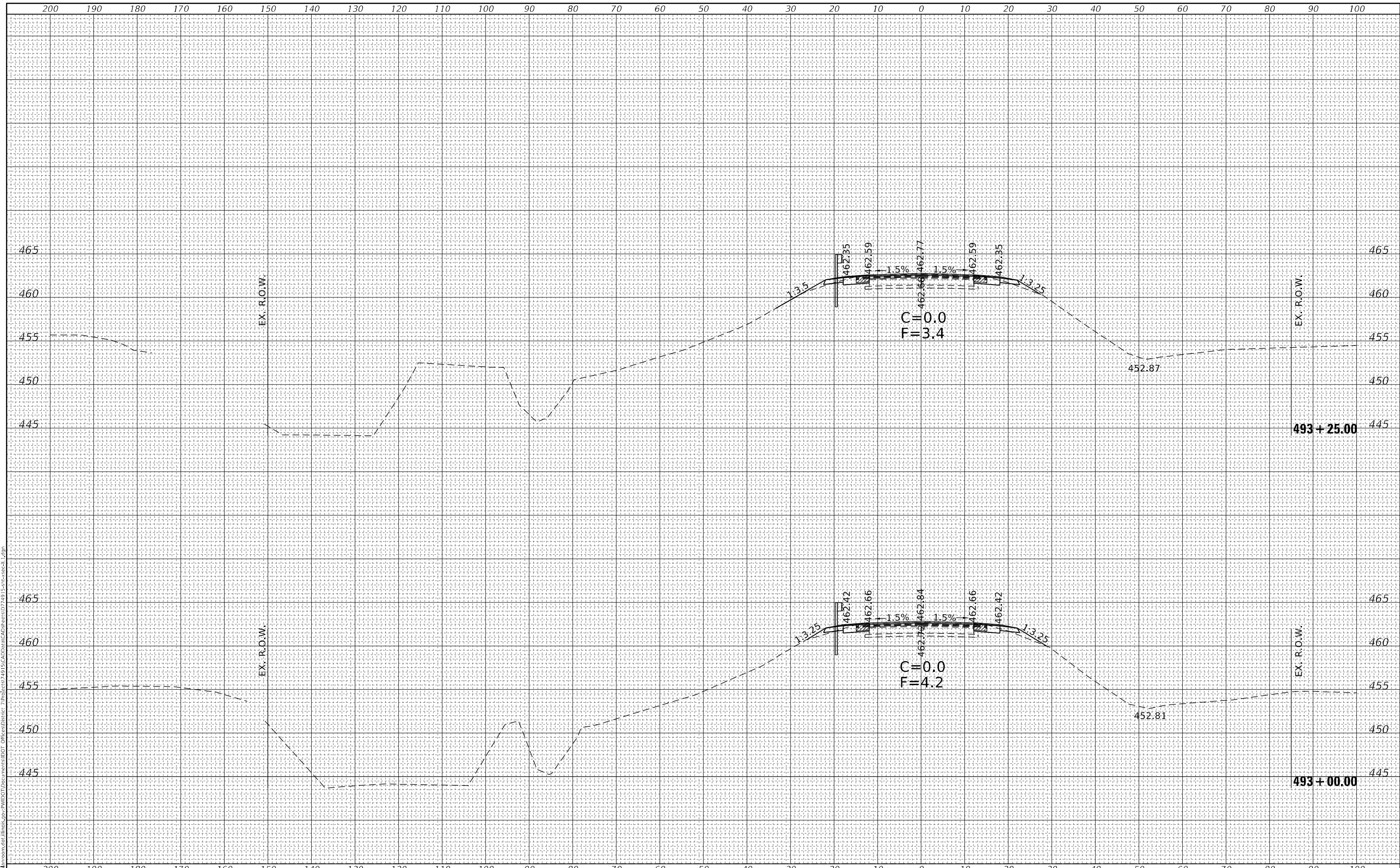
SCALE: 10H:5V    SHEET 9 OF 13 SHEETS    STA. 492+50.00 TO STA. 492+75.00

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 62
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
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 PROJECT: I:\projects\74915\CAD\Drawings\74915-sec-332.dwg



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 F.A.P. 332 (IL RTE 1)**

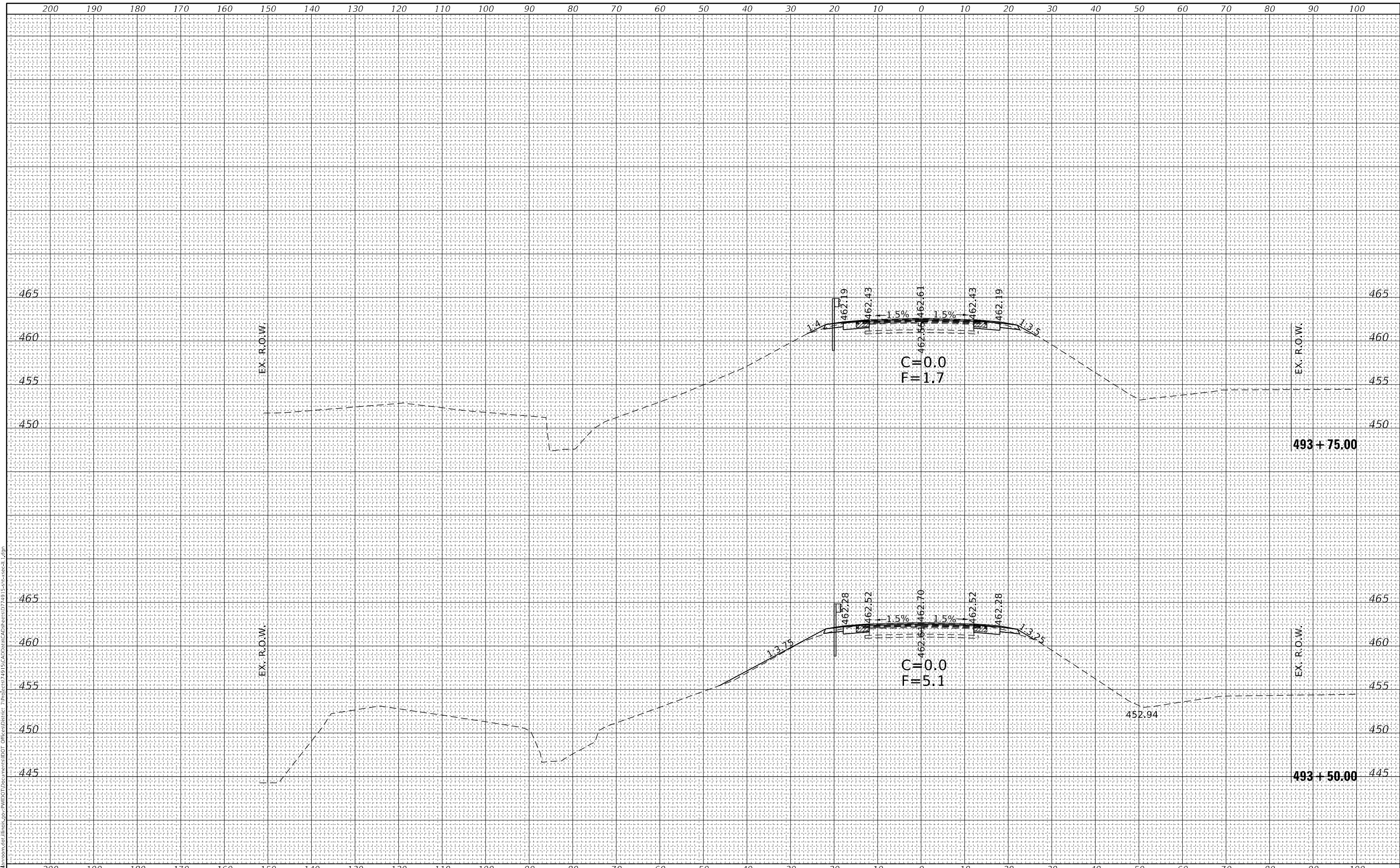
SCALE: 10H:5V    SHEET 10 OF 13 SHEETS    STA. 493+00.00 TO STA. 493+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	63
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
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 PROJECT: I:\projects\74915\CAD\data\CAD\sheet\74915-sec-a.dgn



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

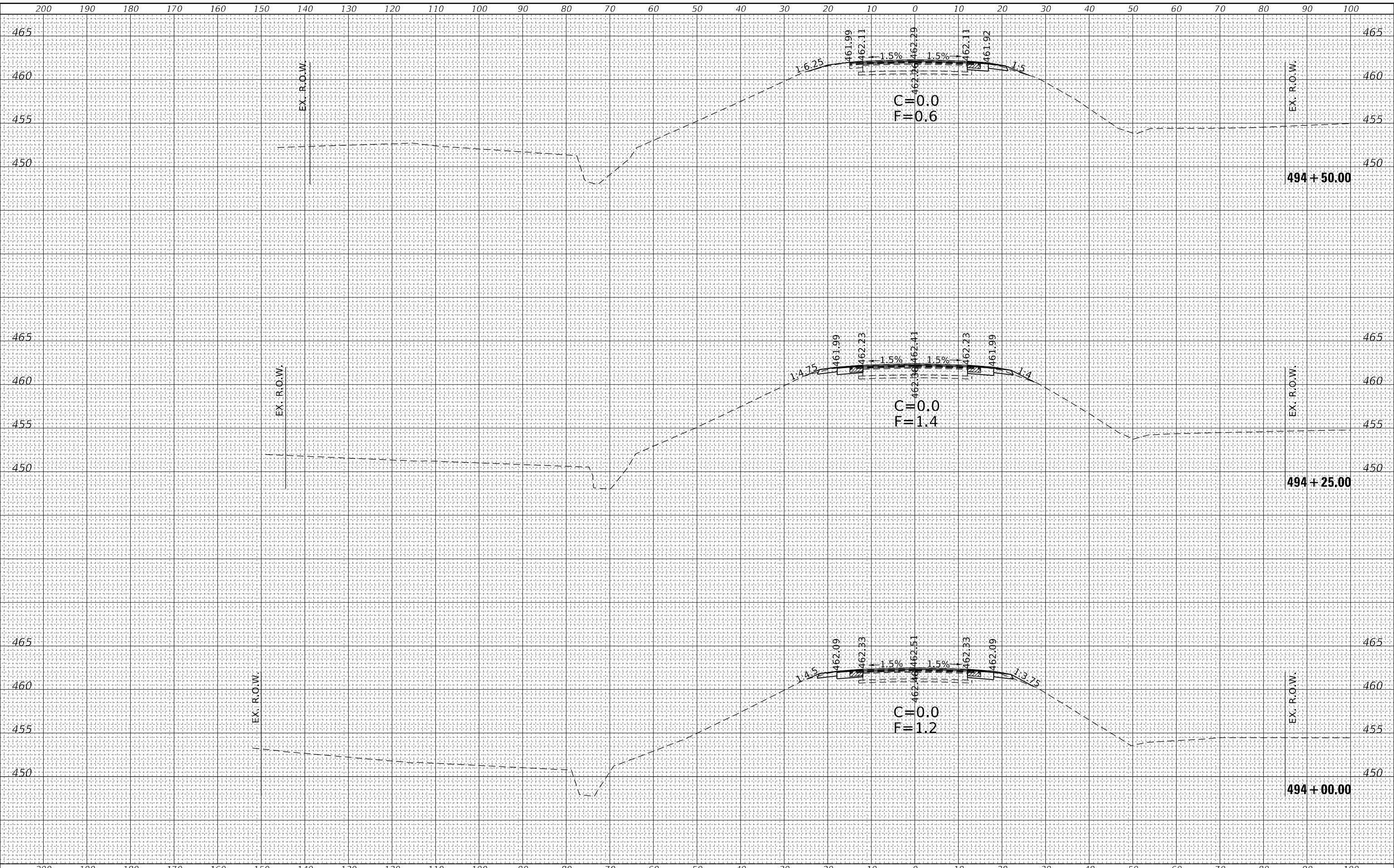
<b>CROSS SECTIONS</b>	
<b>F.A.P. 332 (IL RTE 1)</b>	
SCALE: 10H:5V	SHEET 11 OF 13 SHEETS
STA. 493+50.00 TO STA. 493+75.00	

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 64
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

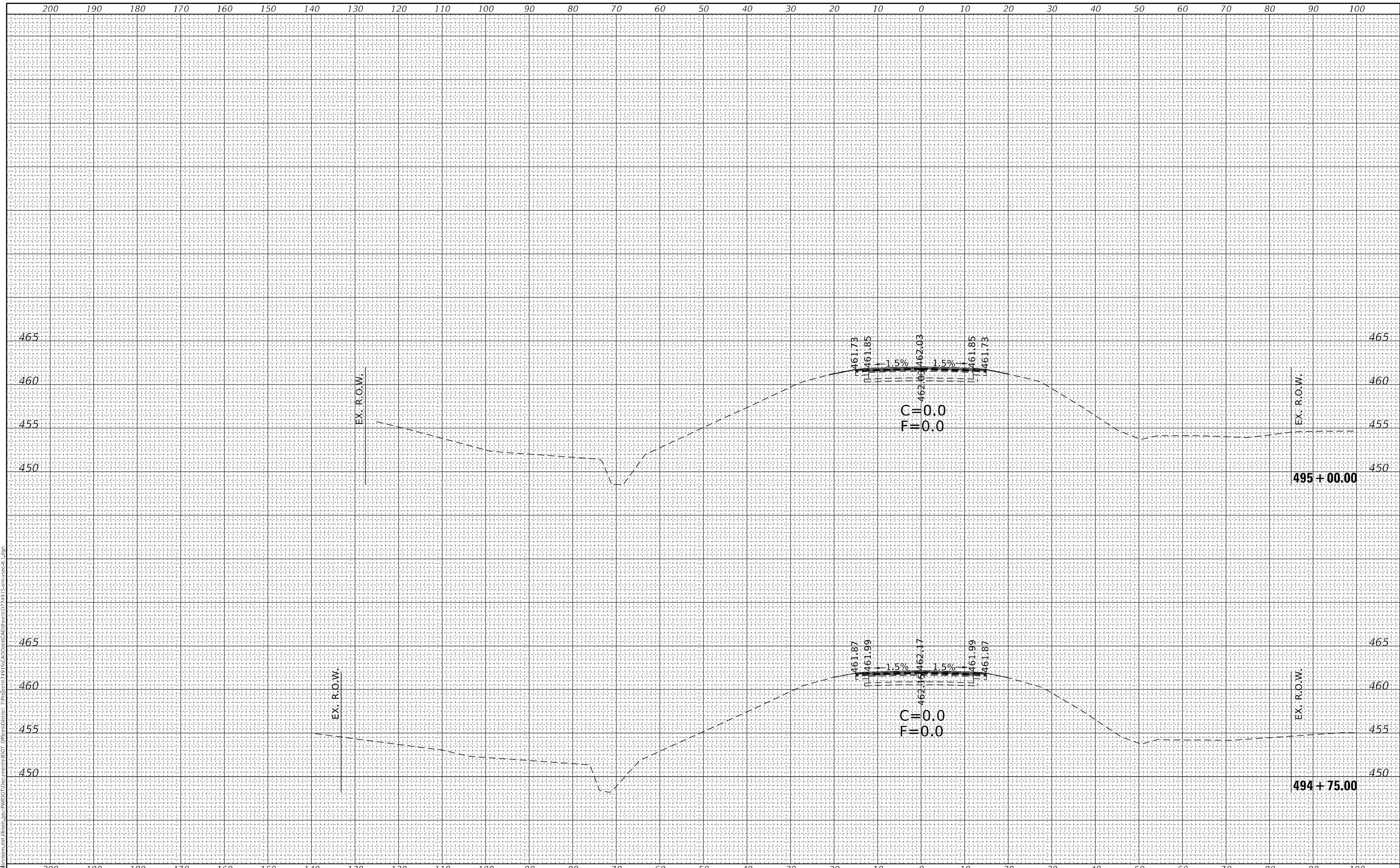
<b>CROSS SECTIONS</b>	
<b>F.A.P. 332 (IL RTE 1)</b>	
SCALE: 10H:5V	SHEET 12 OF 13 SHEETS
STA. 494+00.00 TO STA. 494+50.00	

F.A.P. RTE. 332	SECTION 188-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 65
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

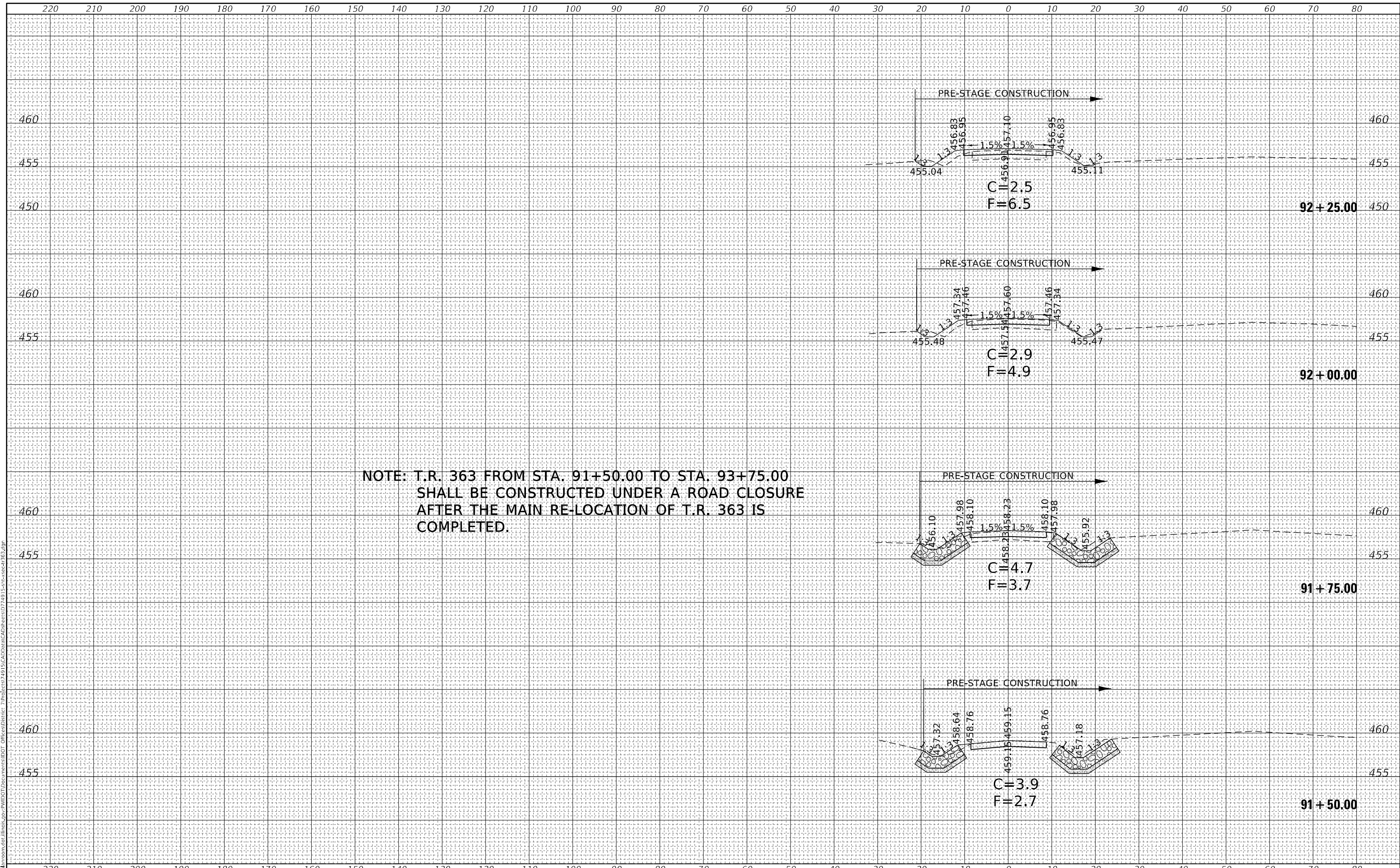
<b>CROSS SECTIONS</b>			
<b>F.A.P. 332 (IL RTE 1)</b>			
SCALE: 10H:5V	SHEET 13	OF 13 SHEETS	STA. 494+75.00 TO STA. 495+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	CRAWFORD	83	66
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
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 PROJECT: 74915\CAD\Drawings\Drawings\74915\sect-cc-fs3.dwg



NOTE: T.R. 363 FROM STA. 91+50.00 TO STA. 93+75.00 SHALL BE CONSTRUCTED UNDER A ROAD CLOSURE AFTER THE MAIN RE-LOCATION OF T.R. 363 IS COMPLETED.

USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 TOWNSHIP ROAD 363**  
 SCALE: 10H:5V SHEET 1 OF 12 SHEETS STA. 91+50.00 TO STA. 92+25.00

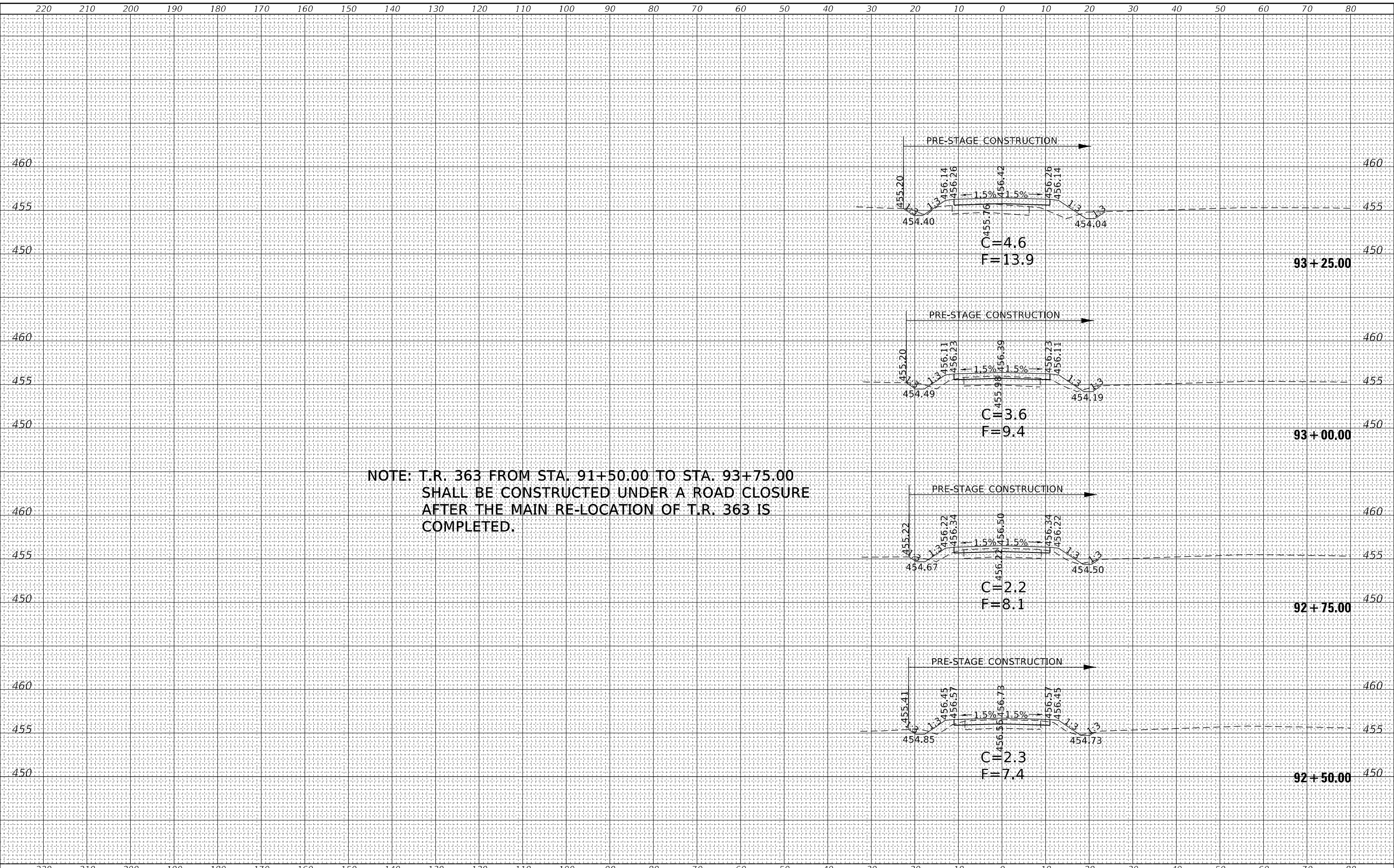
F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 67
CONTRACT NO. 74915			ILLINOIS FED. AID PROJECT	



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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
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NOTE: T.R. 363 FROM STA. 91+50.00 TO STA. 93+75.00 SHALL BE CONSTRUCTED UNDER A ROAD CLOSURE AFTER THE MAIN RE-LOCATION OF T.R. 363 IS COMPLETED.

USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

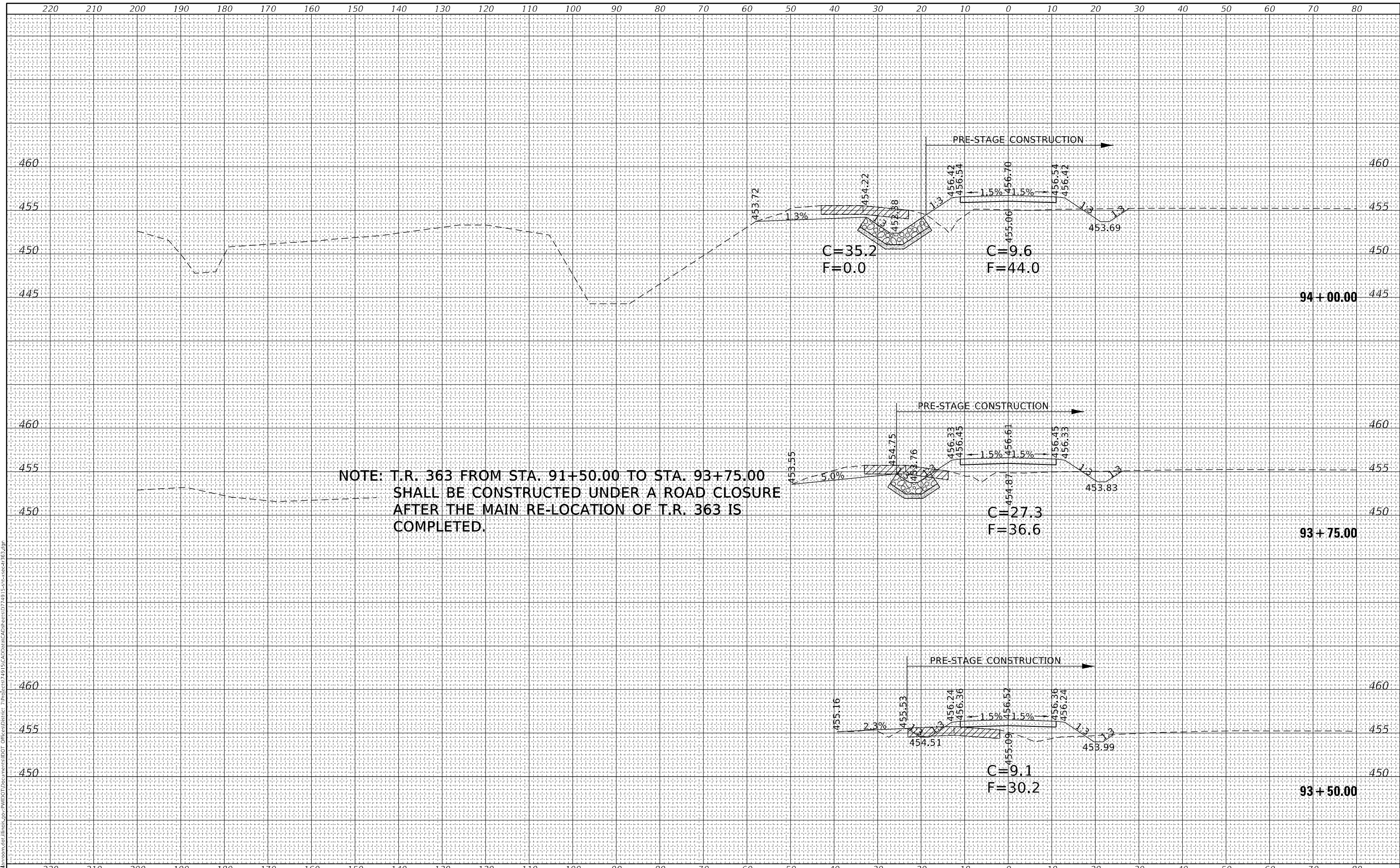
CROSS SECTIONS  
 TOWNSHIP ROAD 363  
 SCALE: 10H:5V SHEET 2 OF 12 SHEETS STA. 92+50.00 TO STA. 93+25.00

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 68
CONTRACT NO. 74915			ILLINOIS FED. AID PROJECT	

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

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

MODEL: Default  
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 PROJECT: 74915\CAD\Drawings\Drawings\74915\sect-483.dwg



NOTE: T.R. 363 FROM STA. 91+50.00 TO STA. 93+75.00 SHALL BE CONSTRUCTED UNDER A ROAD CLOSURE AFTER THE MAIN RE-LOCATION OF T.R. 363 IS COMPLETED.

USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,000' = 1"	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 10H:5V	SHEET 3	OF 12 SHEETS	STA. 93+50.00	TO STA. 94+00.00
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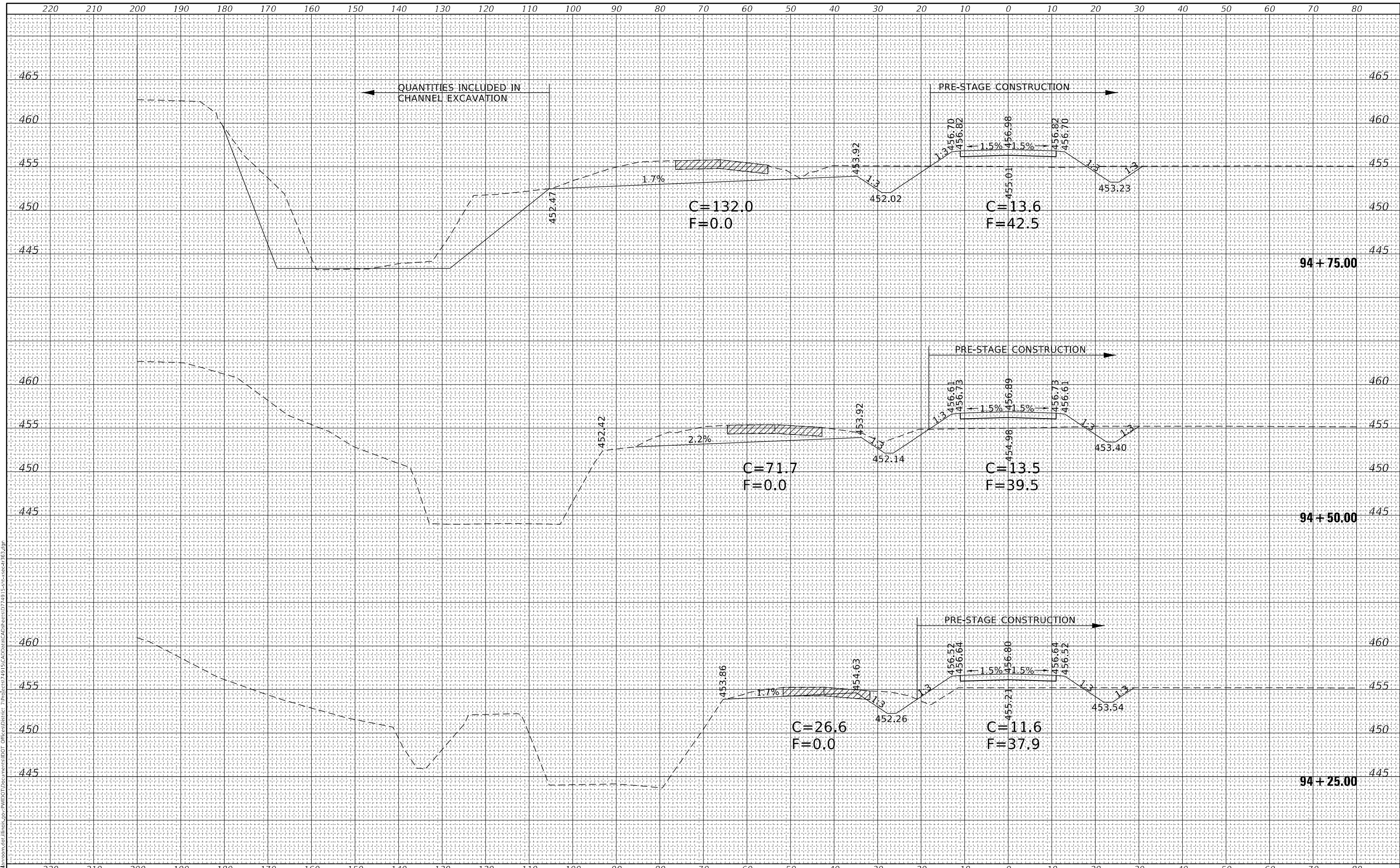
CROSS SECTIONS  
 TOWNSHIP ROAD 363

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 69
			CONTRACT NO. 74915	
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 TOWNSHIP ROAD 363**

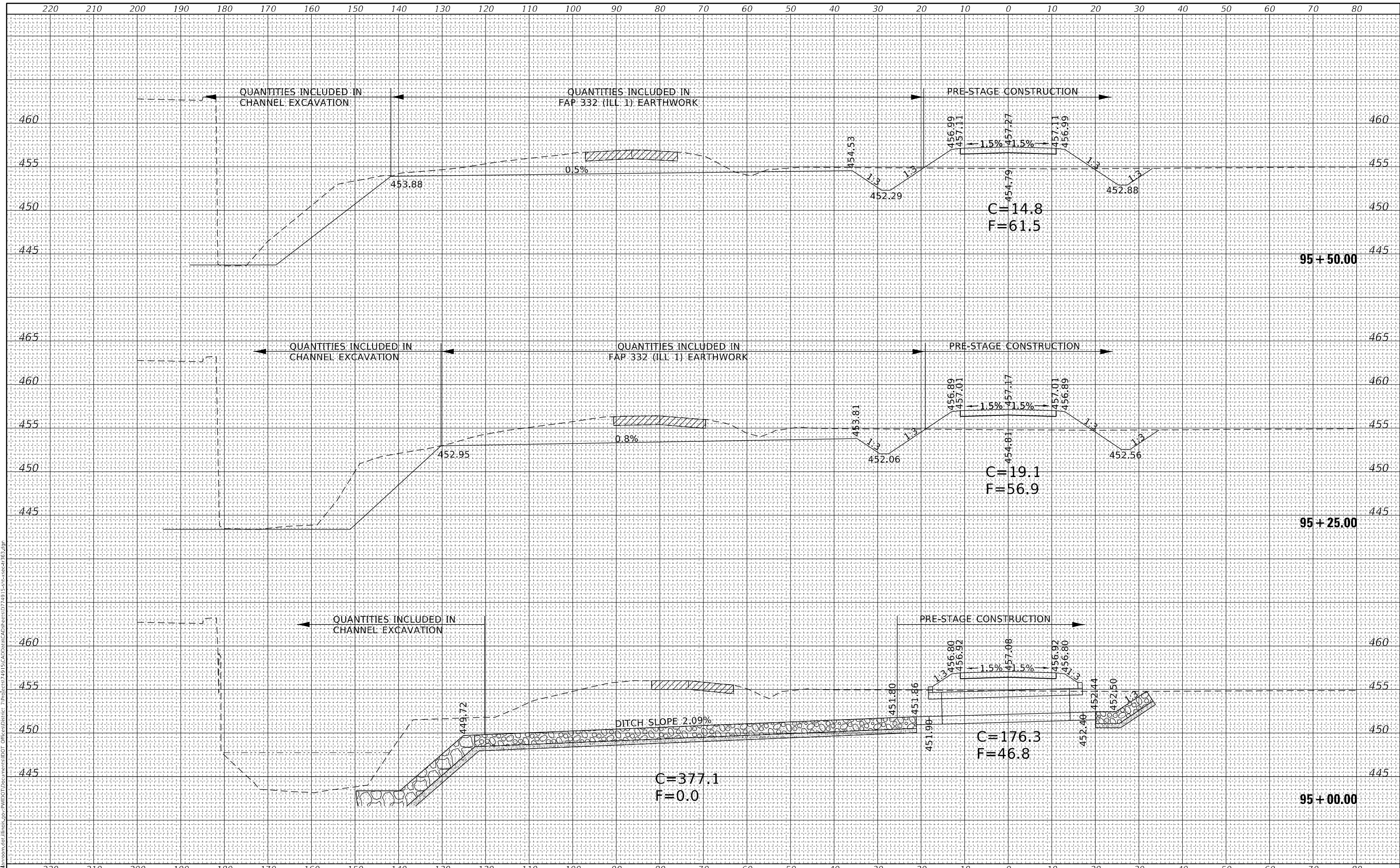
SCALE: 10H:5V    SHEET 4 OF 12 SHEETS    STA. 94+25.00 TO STA. 94+75.00

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 70
			CONTRACT NO. 74915	
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: Default  
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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
TOWNSHIP ROAD 363**

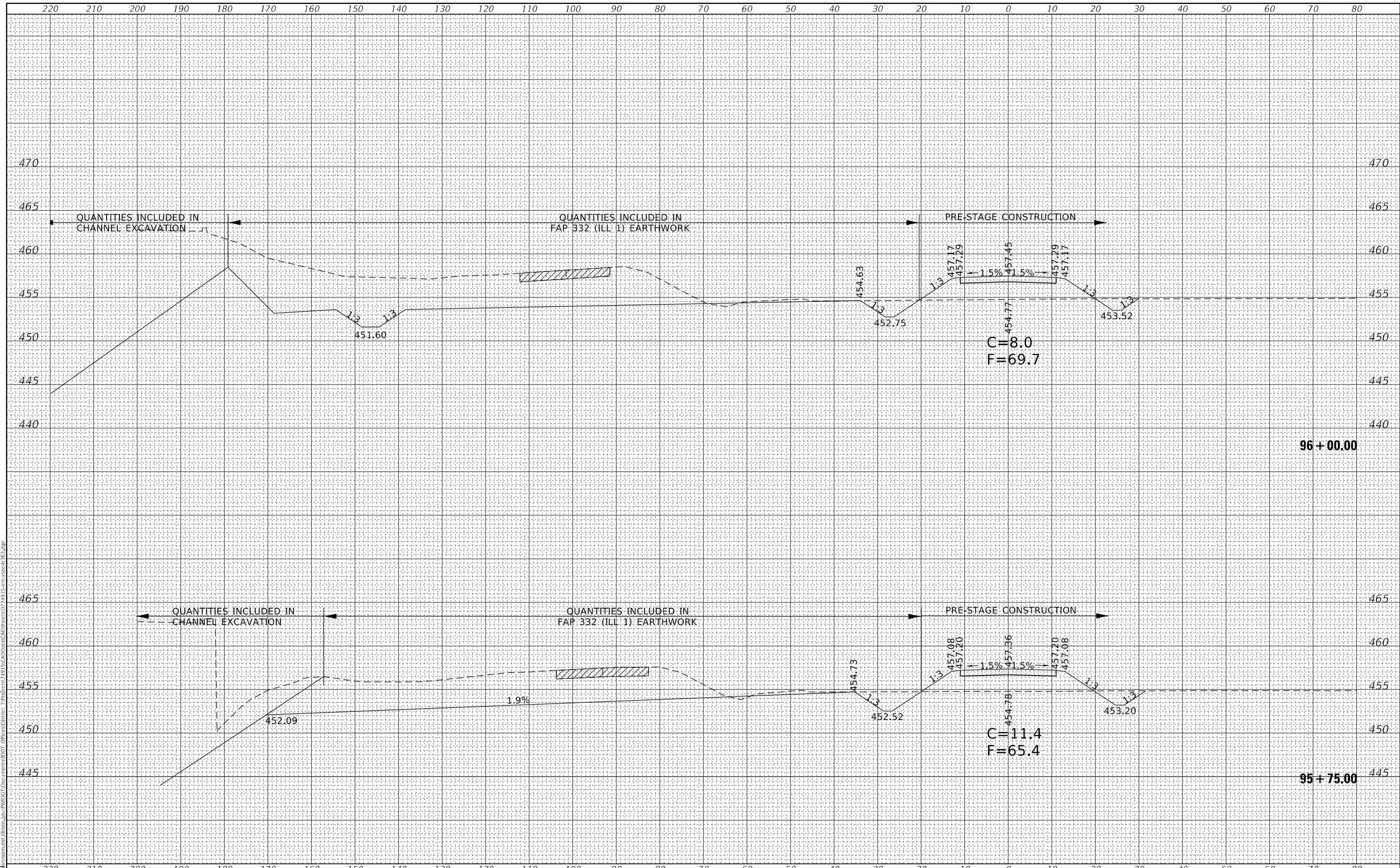
SCALE: 10H:5V    SHEET 5    OF 12 SHEETS    STA. 95+00.00    TO STA. 95+50.00

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 71
			CONTRACT NO. 74915	
		ILLINOIS FED. AID PROJECT		

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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74913\CAD\Drawings\DOT - Office\Drawings\74913\sect-sec-F363.dwg



USER NAME = stefenmk	DESIGNED -	REVISD -
	DRAWN -	REVISD -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISD -
PLOT DATE = 7/30/2020	DATE -	REVISD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 TOWNSHIP ROAD 363**

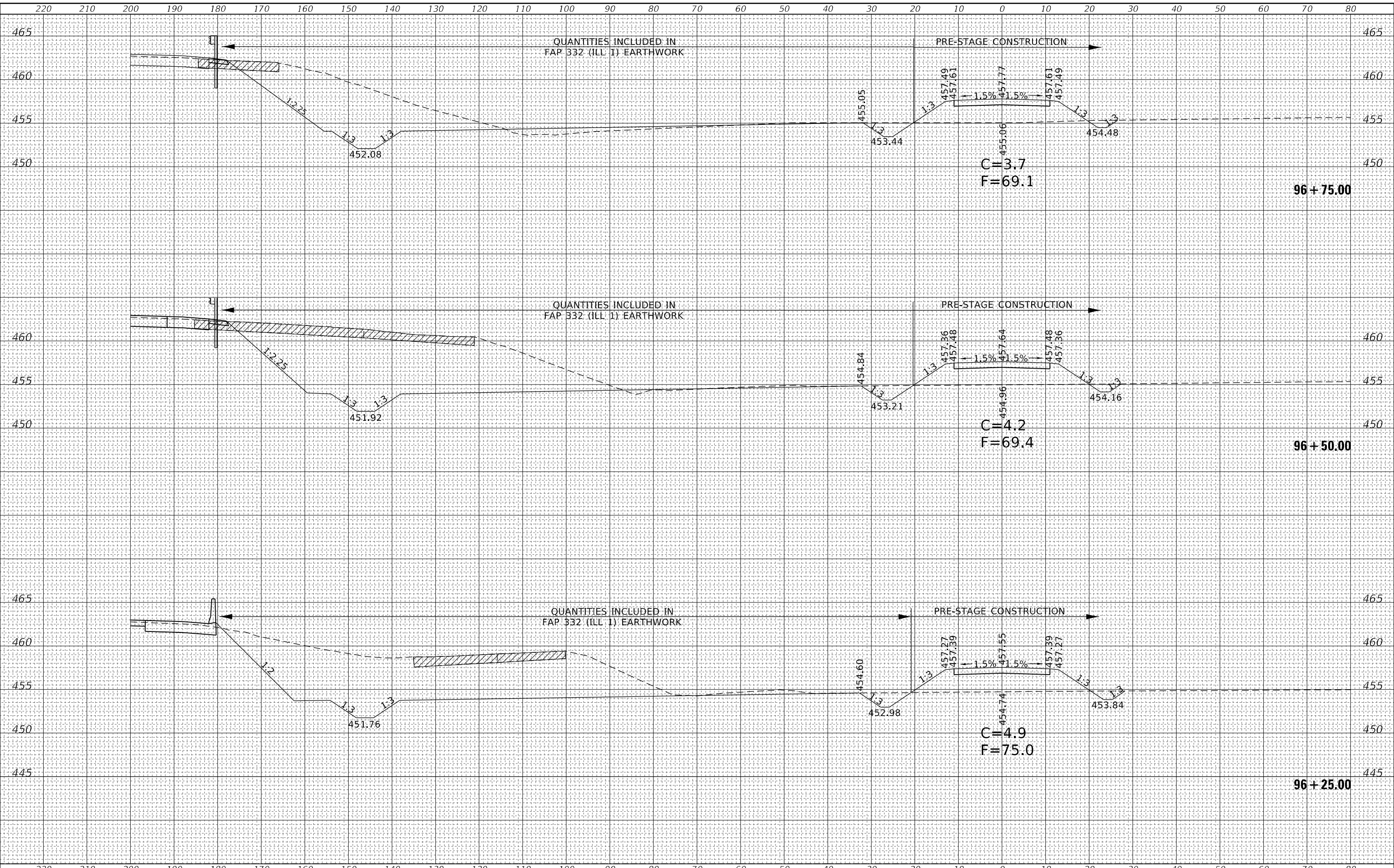
SCALE: 10H:5V    SHEET 6 OF 12 SHEETS    STA. 95+75.00 TO STA. 96+00.00

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 72
			CONTRACT NO. 74915	
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: Default  
FILE NAME: D:\data\mason.dwg  
PLOT DATE: 7/30/2020  
PLOT SCALE: 20,0000 \* / in.  
USER NAME: stefenmk



DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
TOWNSHIP ROAD 363**

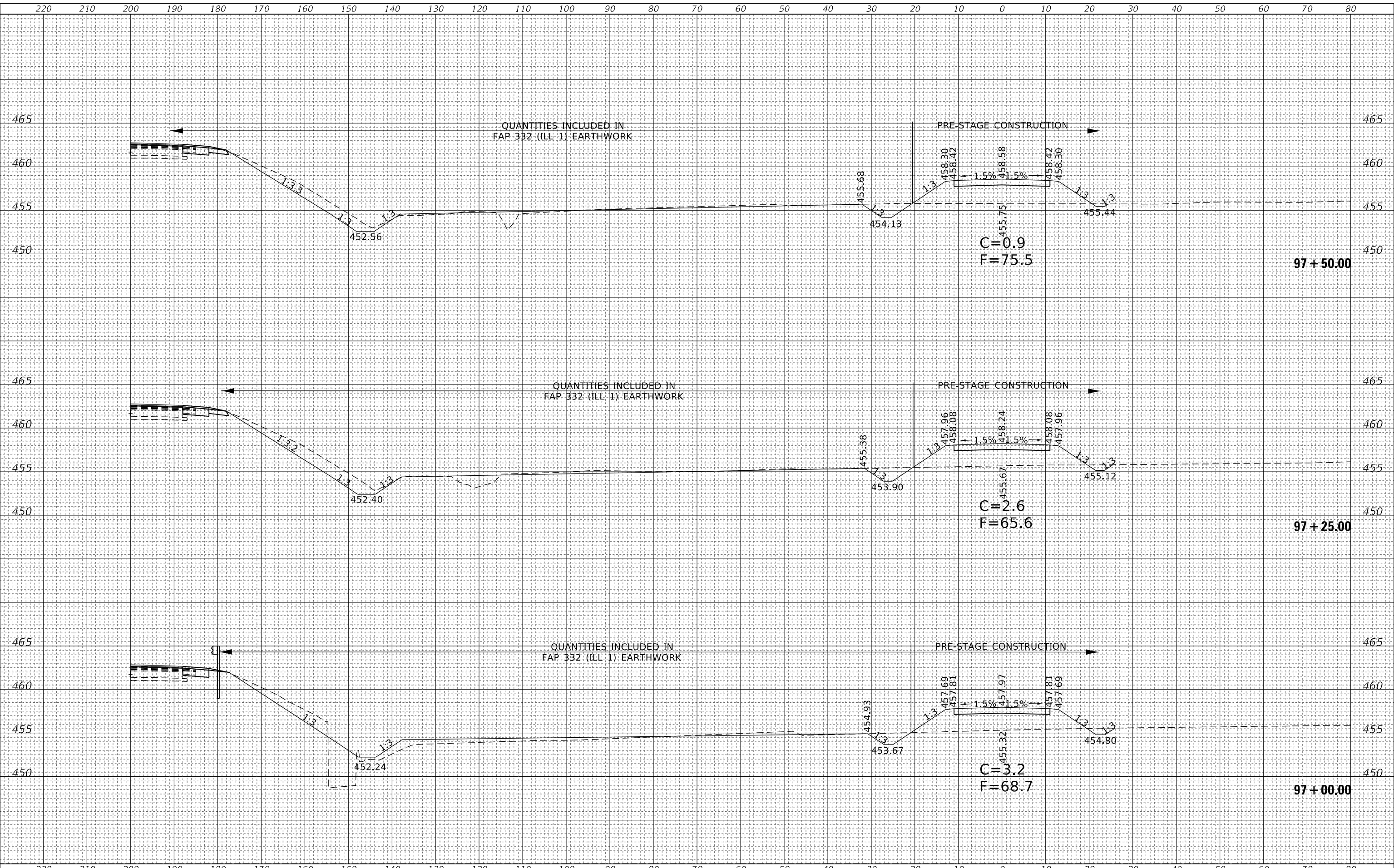
SCALE: 10H:5V    SHEET 7 OF 12 SHEETS    STA. 96+25.00 TO STA. 96+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	73
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
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 PROJECT: 74915\CAD\Drawings\DWG\15-sta-sec-fp3-3.dwg



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

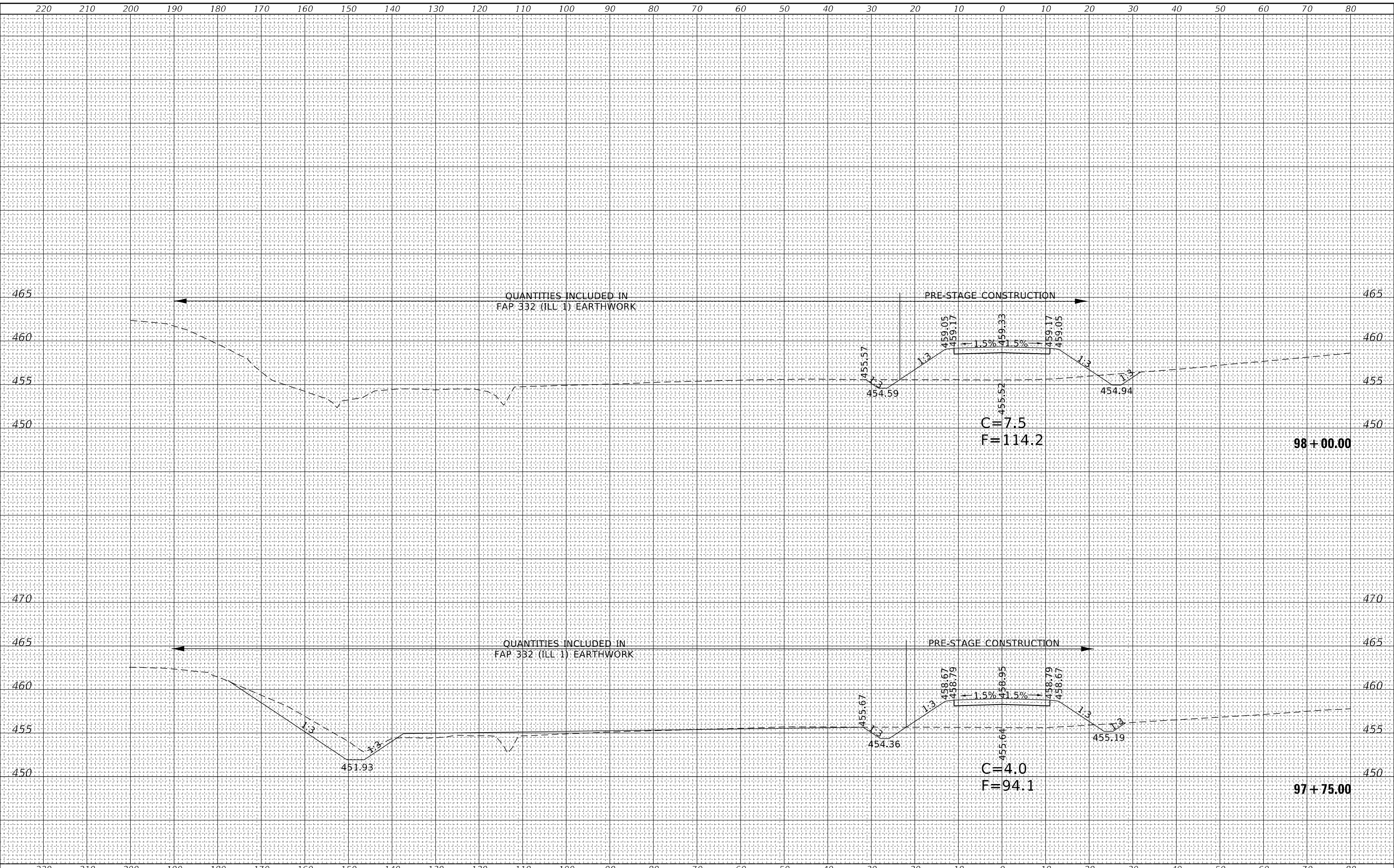
<b>CROSS SECTIONS TOWNSHIP ROAD 363</b>	
SCALE: 10H:5V	SHEET 8 OF 12 SHEETS
STA. 97+00.00	TO STA. 97+50.00

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 74
CONTRACT NO. 74915			ILLINOIS FED. AID PROJECT	

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

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

MODEL: Default  
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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 TOWNSHIP ROAD 363**

SCALE: 10H:5V    SHEET 9    OF 12 SHEETS    STA. 97+75.00    TO STA. 98+00.00

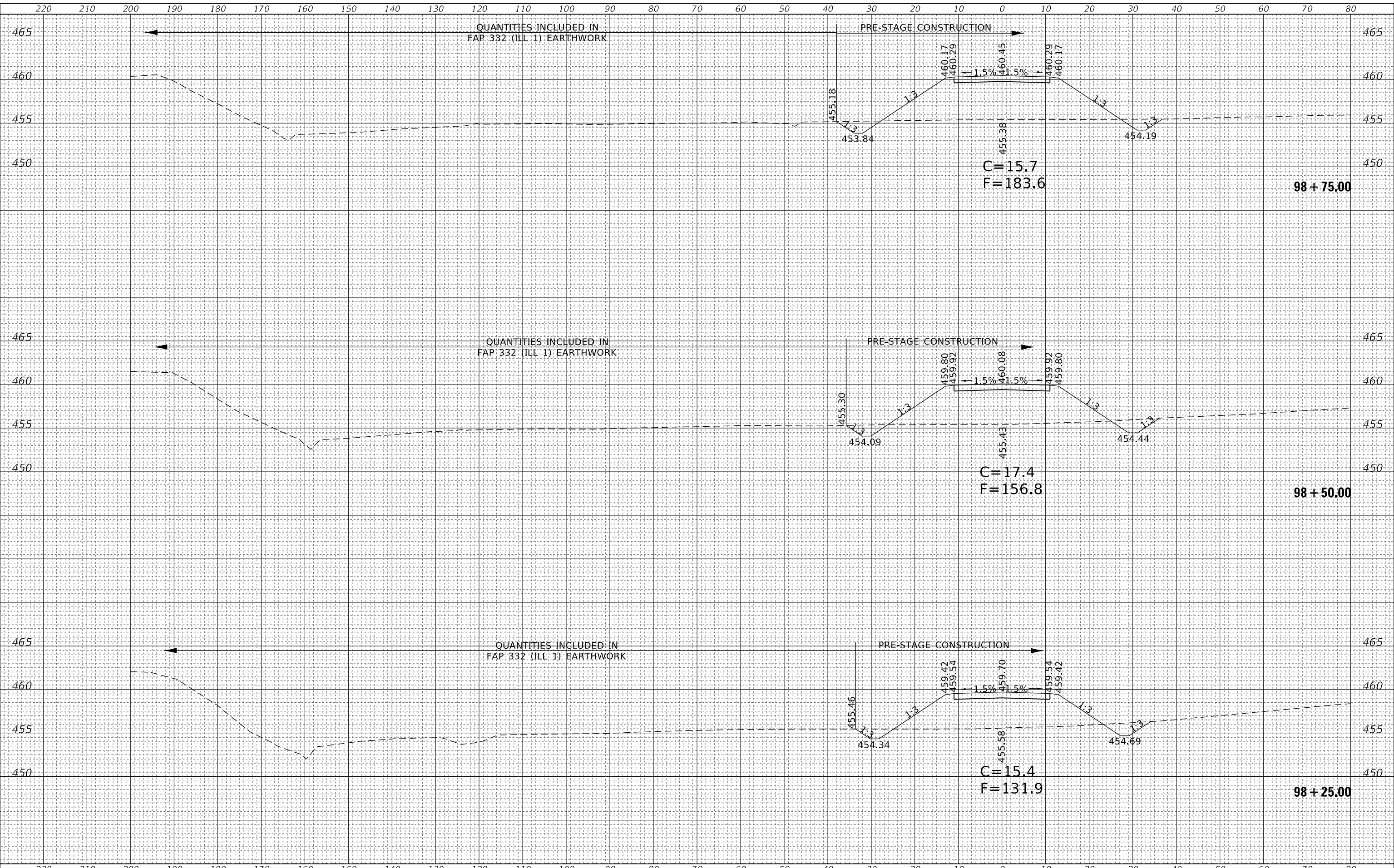
F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 75
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				



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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74915\CAD\Drawings\DWG\98+25+00+363.dwg



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

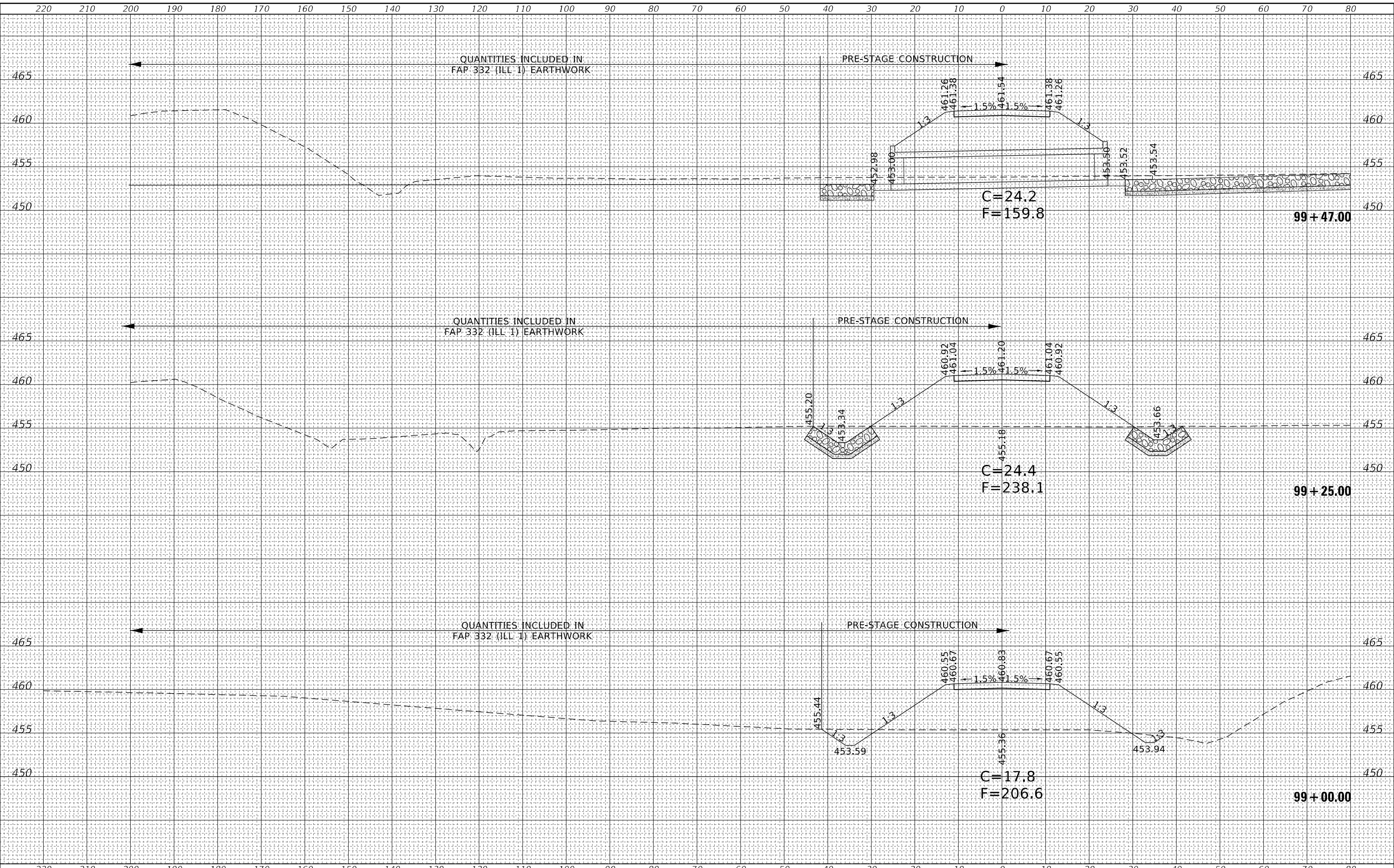
<b>CROSS SECTIONS TOWNSHIP ROAD 363</b>			
SCALE: 10h:5V	SHEET 10	OF 12 SHEETS	STA. 98+25.00 TO STA. 98+75.00

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 76
			CONTRACT NO. 74915	
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
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 PROJECT: 74915\CAD\Drawings\Drawings\74915\sec-sec-FAS.dwg



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

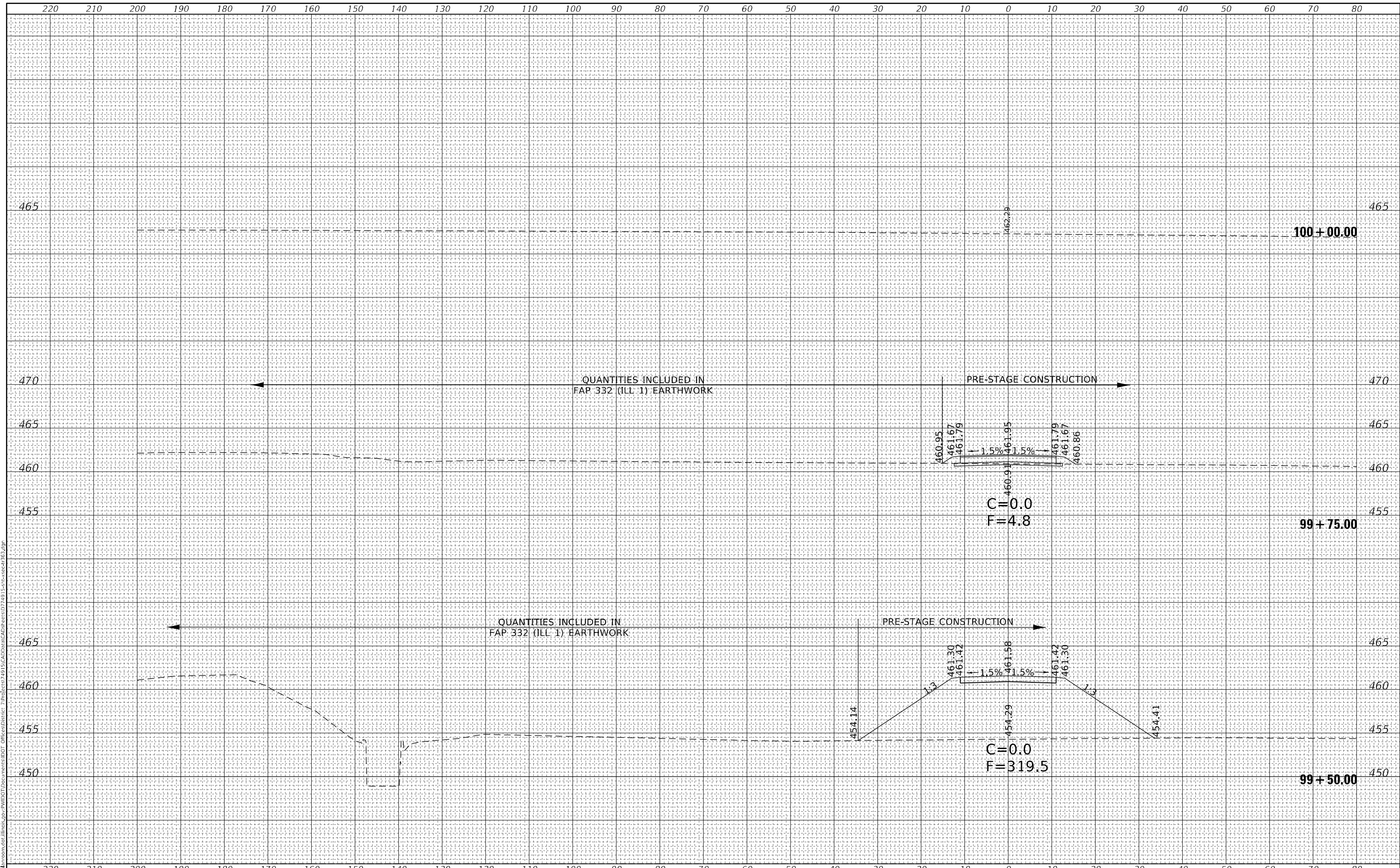
<b>CROSS SECTIONS TOWNSHIP ROAD 363</b>	
SCALE: 10H:5V	SHEET 11 OF 12 SHEETS
STA. 99+00.00 TO STA. 99+47.00	

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 77
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74915	

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

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

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 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74913\CAD\Drawings\DOT - Office\Drawings\74913\DOT\sec-fap363.dwg



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 TOWNSHIP ROAD 363**

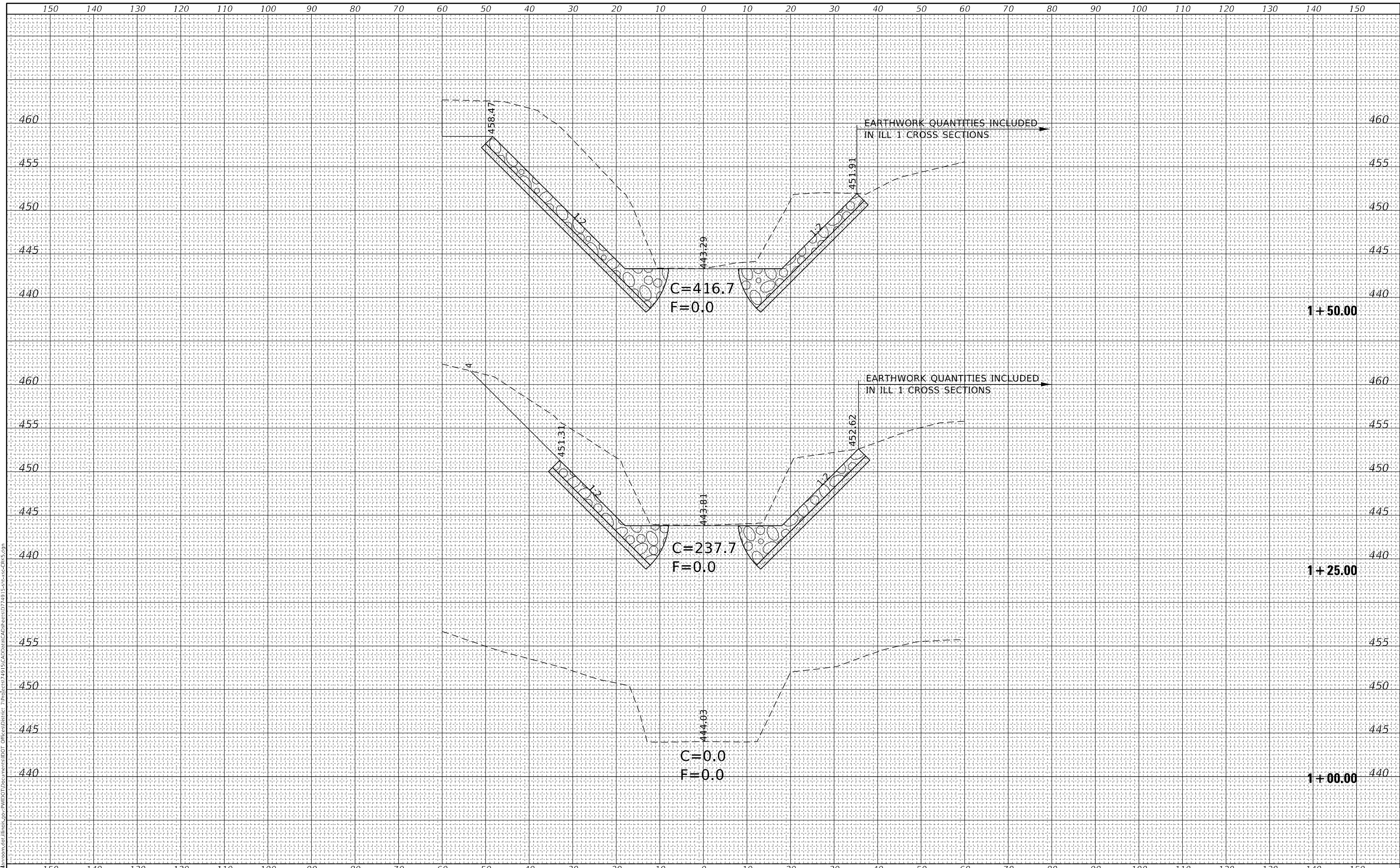
SCALE: 10H:5V    SHEET 12 OF 12 SHEETS    STA. 99+50.00 TO STA. 100+00.00

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 78
			CONTRACT NO. 74915	
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: Default  
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 PLOT DATE: 7/30/2020  
 USER: stefenmk  
 PROJECT: ILLINOIS DOT  
 PLOT DATE: 7/30/2020  
 USER: stefenmk



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 SUGAR CREEK CHANNEL**

SCALE: 10H:5V    SHEET 1 OF 5 SHEETS    STA. 1+00.00 TO STA. 1+50.00

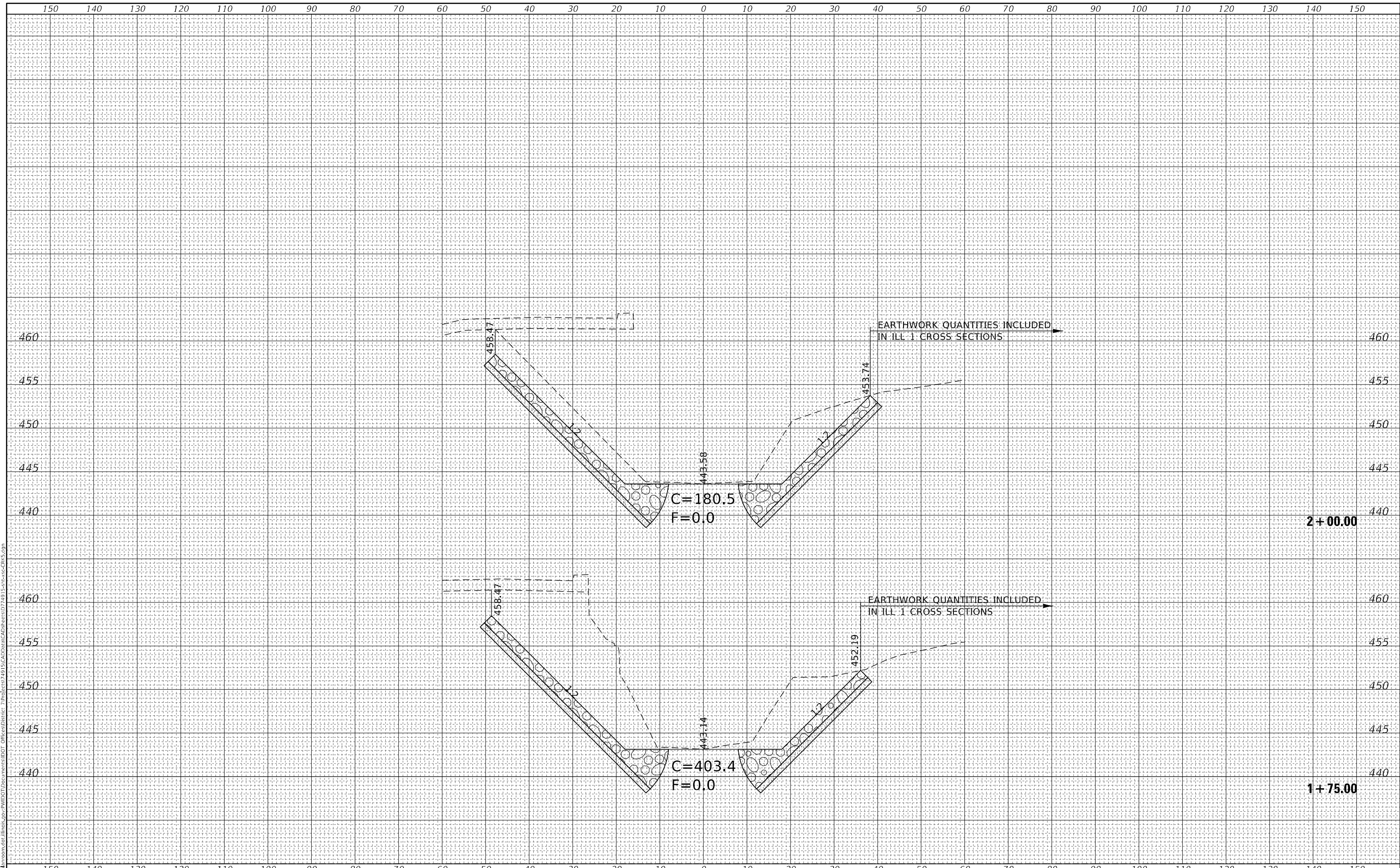
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	79
				CONTRACT NO. 74915

ILLINOIS FED. AID PROJECT

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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 SUGAR CREEK CHANNEL**

SCALE: 10H:5V    SHEET 2    OF 5    SHEETS    STA. 1+75.00    TO STA. 2+00.00

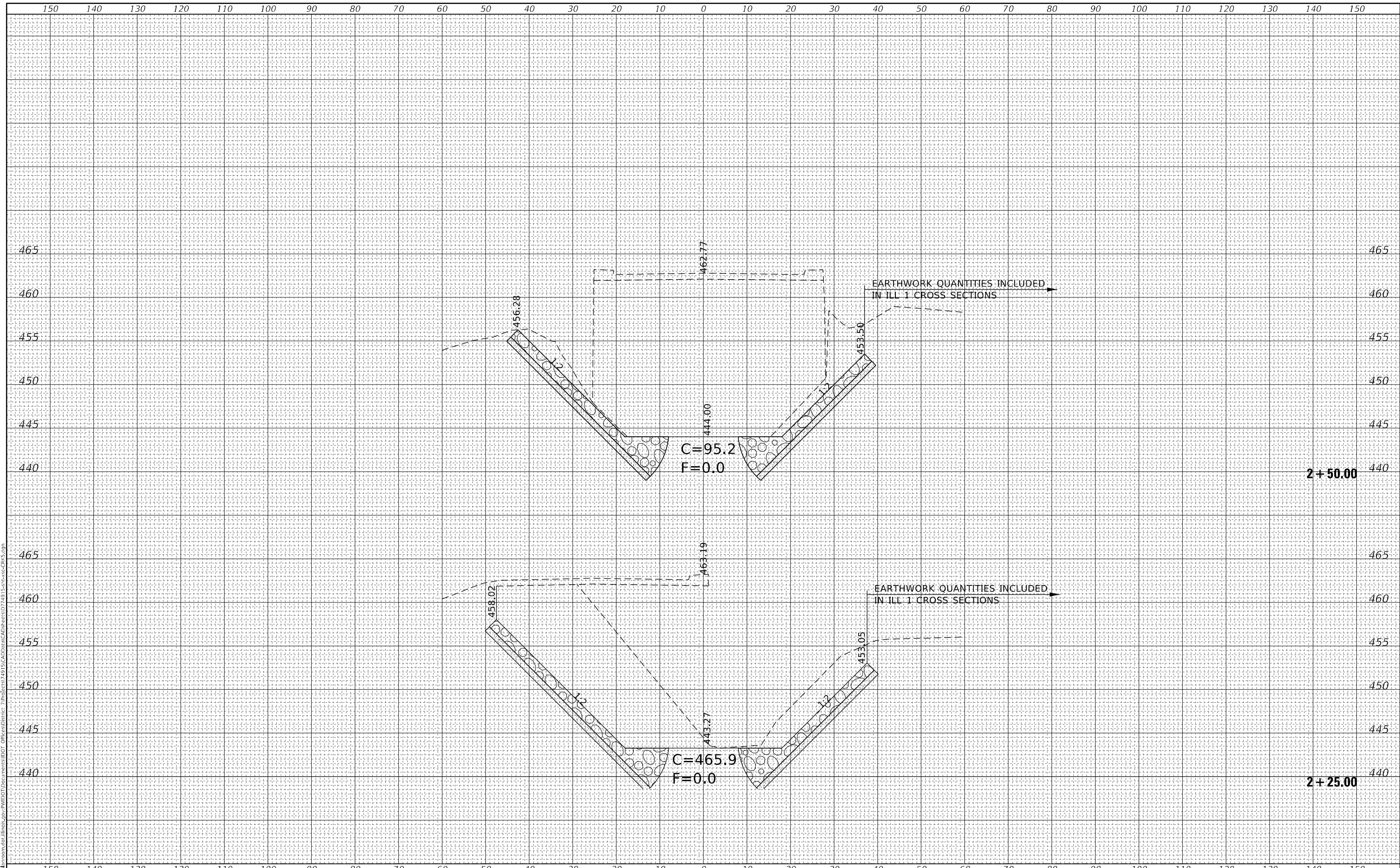
F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 80
CONTRACT NO. 74915				

ILLINOIS FED. AID PROJECT

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

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

MODEL: Default  
 FILE NAME: D:\data\mason.dwg  
 PROJECT: 74915\CAD\Drawings\Drawings\74915\Cross-sec-Pls.dgn



USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,000' = 1"	CHECKED -	REVISED -
PLOT DATE = 7/30/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 SUGAR CREEK CHANNEL**

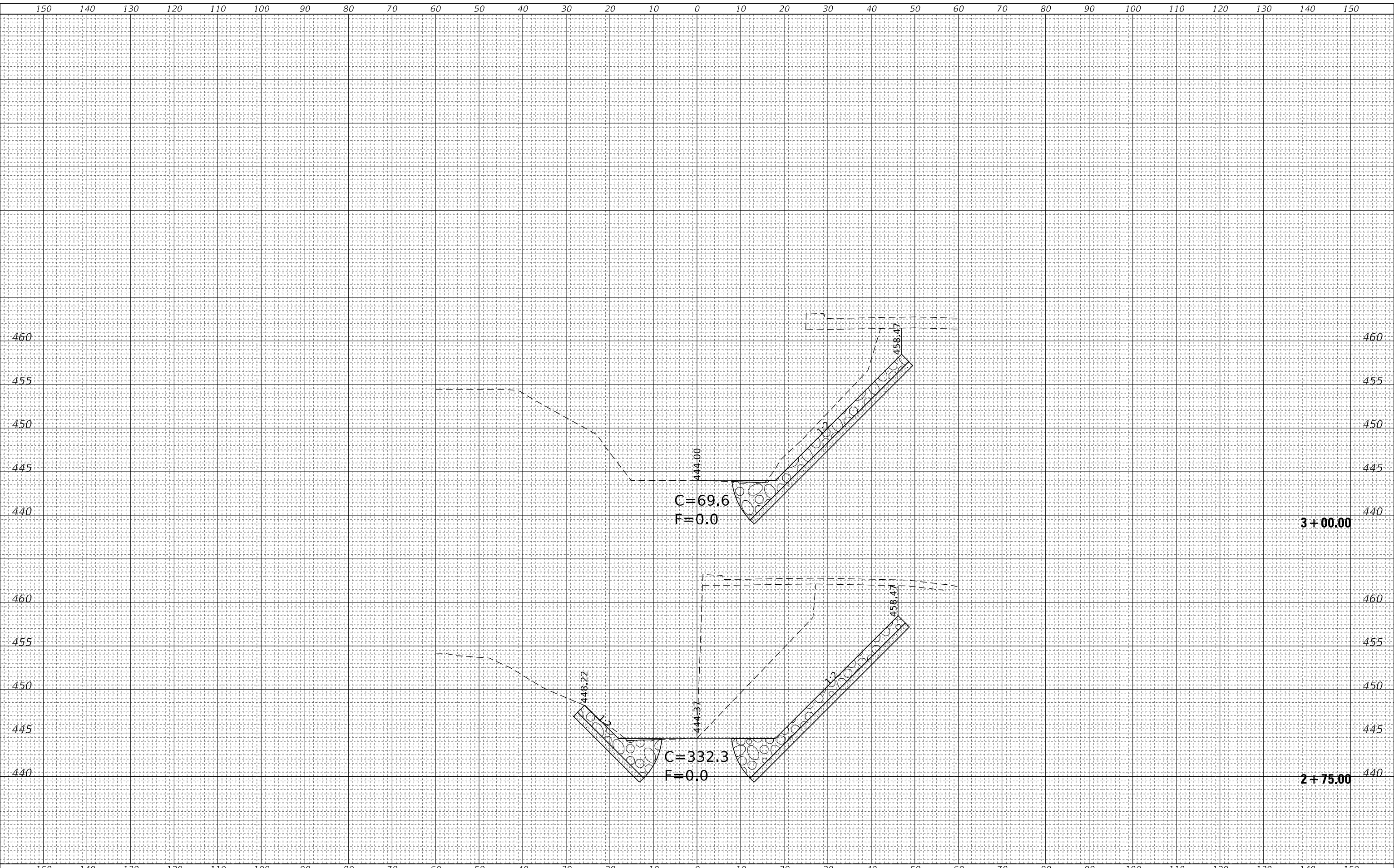
SCALE: 10H:5V SHEET 3 OF 5 SHEETS STA. 2+25.00 TO STA. 2+50.00

F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 81
			CONTRACT NO. 74915	
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: Default  
FILE NAME: D:\data\mason.dwg  
PLOT DATE: 7/30/2020  
PLOT SCALE: 20,0000 \*/ in.  
USER NAME: stefenmk



DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
SUGAR CREEK CHANNEL**

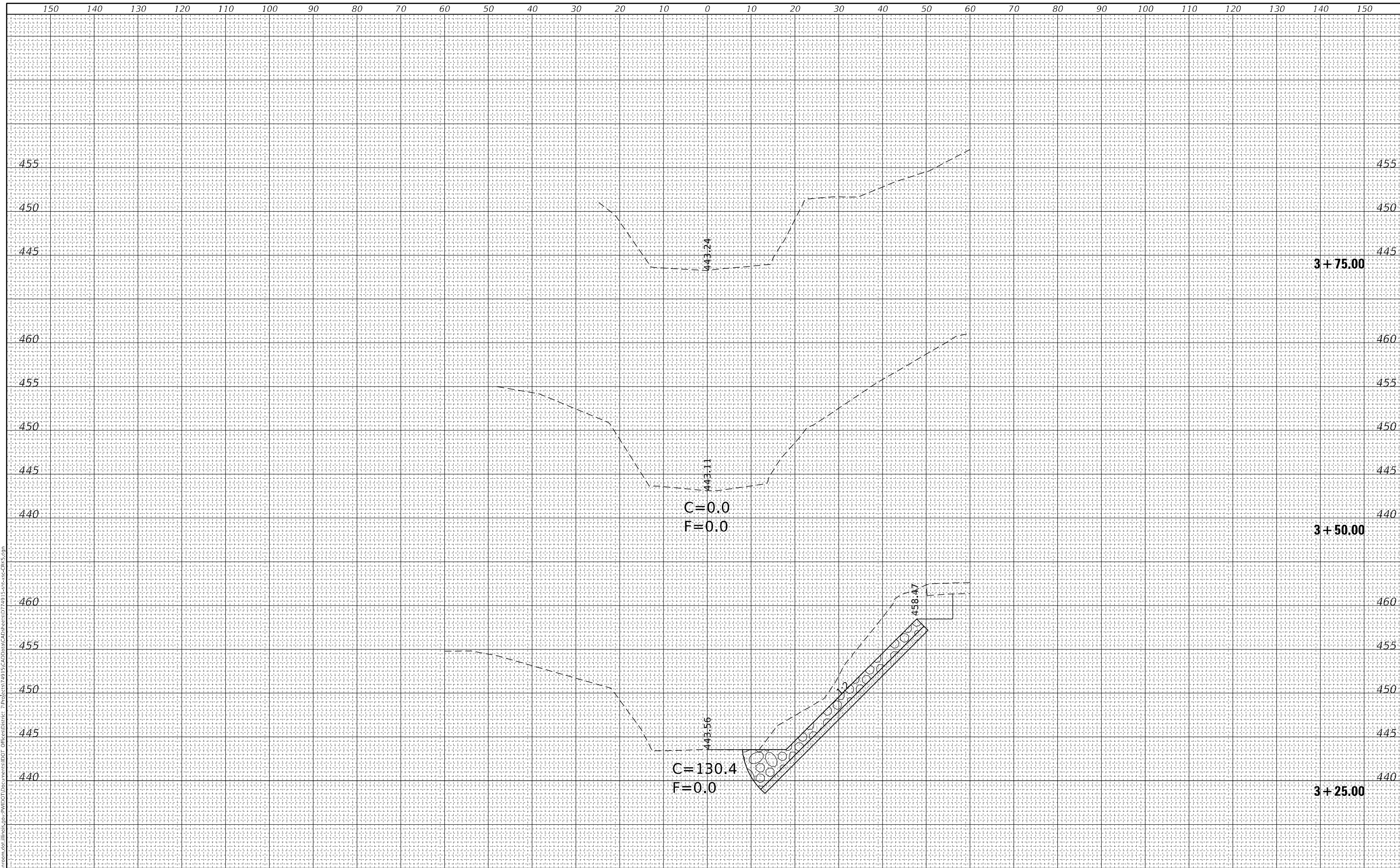
SCALE: 10H:5V SHEET 4 OF 5 SHEETS STA. 2+75.00 TO STA. 3+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	CRAWFORD	83	82
CONTRACT NO. 74915				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
FILE NAME: D:\data\mason.dwg  
PLOT DATE: 7/30/2020  
PLOT SCALE: 20,0000 \*/ in.  
USER NAME: stefenmk



DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>SUGAR CREEK CHANNEL</b>		F.A.P. RTE. 332	SECTION 18B-1	COUNTY CRAWFORD	TOTAL SHEETS 83	SHEET NO. 83
DRAWN -	REVISIED -				CONTRACT NO. 74915				
CHECKED -	REVISIED -				ILLINOIS FED. AID PROJECT				
DATE -	REVISIED -								
USER NAME = stefenmk PLOT DATE = 7/30/2020 PLOT SCALE = 20,0000 */ in.			SCALE: 10H:5V	SHEET 5 OF 5 SHEETS	STA. 3+25.00	TO STA. 3+75.00			