

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	1
		ILLINOIS	CONTRACT NO. 62P70	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN
THE VILLAGE OF MOKENA.

PROPOSED HIGHWAY PLANS

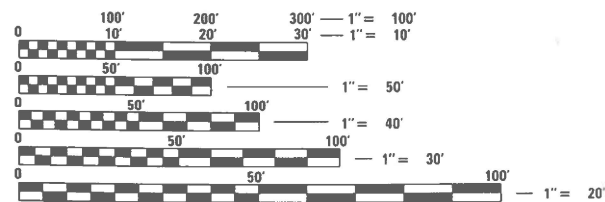
FAI ROUTE 80 (INTERSTATE 80)
EB FRANKFORT WEIGH STATION (E OF
TOWNLINE RD)
SECTION 2021-153-WS
WEIGH STATION REPAIRS
WILL COUNTY

C-91-035-22

TRAFFIC DATA
FUNCTIONAL CLASSIFICATION: INTERSTATE
ADT = 102,300 (2019)
PV = 78.93% S.U. = 3.96% M.U. = 17.11%
POSTED SPEED = DESIGN SPEED = 65 MPH



Signed: *JPH*
Date: 6/1/2022
License Expires: 11/30/2023
The seal shown above is valid for Sheets 1-16; 37-48.

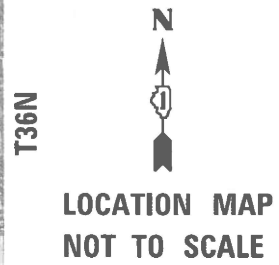
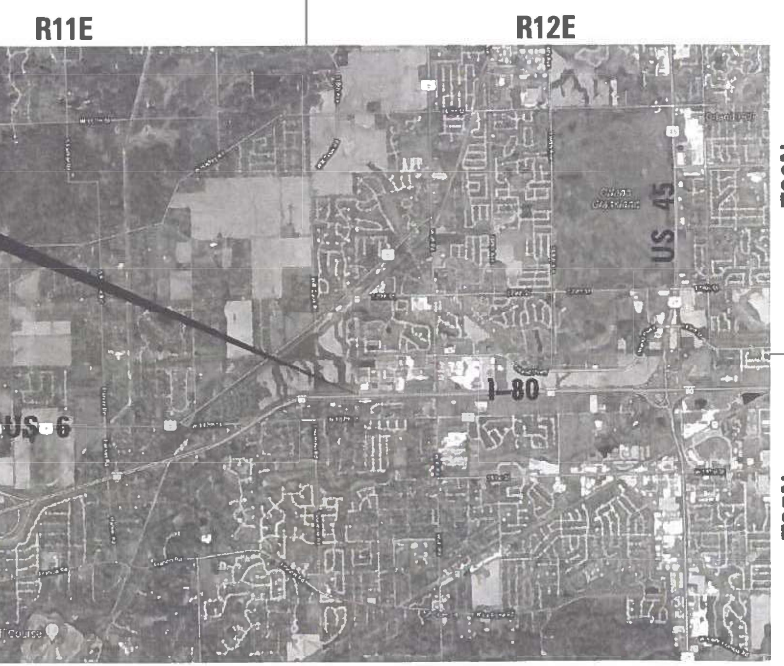


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: LUKASZ POCIECHA, PE (847) 705-4255
PROJECT MANAGER: FAWAD AQUEEL, PE (847) 705-4247

CONTRACT NO. 62P70

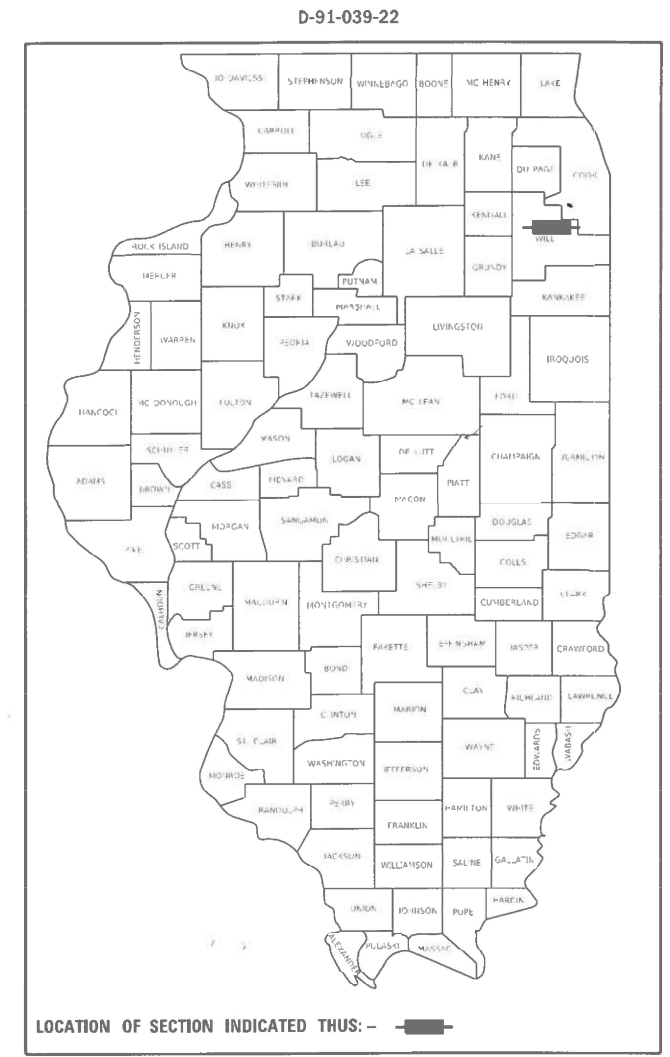


FRANKFORT TOWNSHIP

GROSS LENGTH = 2657 FT. = 0.50 MILE
NET LENGTH = 2657 FT. = 0.50 MILE



Signed: *Alex C. Benz*
Date: 6/1/2022
License Expires: 11/30/2022
The seal shown above is valid for Sheets 17-22.



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

EFK Moen
Civil Engineering Design

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 1 20 22
Jose Rios REGIONAL ENGINEER
July 1, 2022 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

July 1, 2022 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-09	CLASS B PATCHES
483001-06	PCC SHOULDER
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
602001-02	CATCH BASIN, TYPE A
604001-05	FRAME AND LIDS, TYPE 1
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701901-08	TRAFFIC CONTROL DEVICES

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOURS NOTIFICATION IS REQUIRED.
- IDOT MAINTENANCE CONTRACTOR, MEADE ELECTRIC, SHALL BE CONTACTED AT (773) 287-7672 FOR LOCATES FOR EVERY SYSTEM BEFORE ANY OF THE EARTHWORK CAN BEGIN.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- USE #8 EPOXY-COATED DOWEL BARS, CONFORMING TO ART 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TRANSVERSE JOINTS.
- USE #6 EPOXY-COATED TIE BARS, CONFORMING TO ART 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL LONGITUDINAL JOINTS. REFER TO THE "LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)" DETAIL ON HIGHWAY STANDARD 420001 - PAVEMENT JOINTS.
- BEFORE BEGINNING ANY WORK THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKING SHALL BE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE ENGINEER WILL CONTACT REGINA COOPER, AREA TRAFFIC FIELD ENGINEER, AT REGINA.COOPER2@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF THE PERMANENT PAVEMENT MARKINGS.
- THE ENGINEER WILL CONTACT KEITH DONOVAN, WEIGHT ENFORCEMENT ENGINEER, AT KEITH.DONOVAN@ILLINOIS.GOV OR (217) 782-8414 A MINIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING CONSTRUCTION.
- WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED THEIR LOCATION.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- FOR IDOT-OWNED UNDERGROUND ASSET IDENTIFICATION CONTACT IDOT DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR (EMC), MEADE ELECTRIC CO INC., TED TROYNER AT (708) 588-2544.
- FOR SCALE PIT DRAINAGE LINES LOCATIONS, CONTACT NEW LENOX MAINTENANCE YARD AT (815) 485-6393, 2504, OR 2505.
- THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP 4 INCHES IN AREAS TO BE SEEDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

TRAFFIC CONTROL NOTES

- UTILIZE DISTRICT 1 STANDARD TC-08 TO CLOSE RAMP DURING CONSTRUCTION.
- PLACE RAMP CLOSURE ADVANCE WARNING SIGNS ("RAMP CLOSED") AT THE FOLLOWING EXIT GUIDE SIGNS:
 - "WEIGH STATION 1 MILE" SIGN APPROX. 1 MILE IN ADVANCE OF RAMP
 - "WEIGH STATION NEXT RIGHT" SIGN APPROX. 1200' IN ADVANCE OF RAMP
 - "WEIGH STATION" OVERHEAD SIGN AT WEIGH STATION EXIT RAMP
- DURING CONSTRUCTION, PLACE TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE (70307140) SOLID WHITE ACROSS EXIT RAMP OPENING. AFTER CONSTRUCTION, REMOVAL OF THIS LINE WILL BE PAID FOR AS SHORT TERM PAVEMENT MARKING REMOVAL (70300150).

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 80 (I-80) EB WEIGH STATION
INDEX OF SHEETS, HIGHWAY STANDARDS, AND NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	2
			CONTRACT NO. 62P70	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE	CONSTR. CODE
				100% STATE		
				ROADWAY		
				0044		
				URBAN		
44004250	PAVED SHOULDER REMOVAL	SQ YD	1446	1446		
44201007	CLASS B PATCHES, TYPE II, 13 INCH	SQ YD	30	30		
44201011	CLASS B PATCHES, TYPE III, 13 INCH	SQ YD	60	60		
44201299	DOWEL BARS 1 1/2"	EACH	156	156		
44213200	SAW CUTS	FOOT	276	276		
48300700	PORTLAND CEMENT CONCRETE SHOULDERS 12"	SQ YD	1864	1864		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1		
50102400	CONCRETE REMOVAL	CU YD	18.5	18.5		
50300225	CONCRETE STRUCTURES	CU YD	18.5	18.5		
50300300	PROTECTIVE COAT	SQ YD	38.3	38.3		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4650	4650		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1590	1590		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	357	357		
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4		

*SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 80 (I-80) EB WEIGH STATION
SUMMARY OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	4
			CONTRACT NO. 62P70	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE	CONSTR. CODE
				100% STATE		
				ROADWAY		
				0044		
				URBAN		
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	151	151		
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1676	1676		
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2		
60609200	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12	FOOT	114	114		
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1240	1240		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10		
67100100	MOBILIZATION	L SUM	1	1		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	459	459		
70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	689	689		
* 78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 6"	FOOT	6128	6128		
* 78004640	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 8"	FOOT	528	528		

*SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 80 (I-80) EB WEIGH STATION
SUMMARY OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	5
			CONTRACT NO. 62P70	
			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE	CONSTR. CODE
				100% STATE		
				ROADWAY		
				0044		
				URBAN		
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	879	879		
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	6128	6128		
* 78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	528	528		
* 78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	120	120		
* X1400184	REMOVING WEIGH-IN-MOTION COMPONENTS	L SUM	1	1		
X4420201	PAVEMENT PATCHING (SPECIAL)	SQ YD	103	103		
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12		
* X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	20	20		
* Z0025710	FURNISHING AND INSTALLING STATIC SCALE COMPONENTS	L SUM	1	1		
* Z0026290	FURNISHING AND INSTALLING WEIGH-IN- MOTION COMPONENTS	L SUM	1	1		
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	100	100		
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500		

*SPECIALTY ITEM

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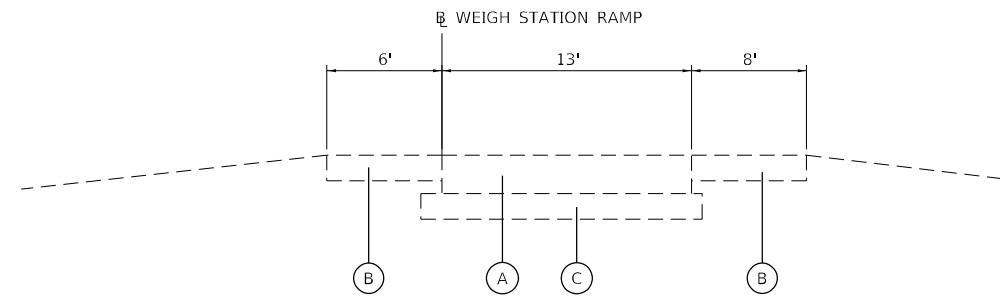
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 80 (I-80) EB WEIGH STATION
SUMMARY OF QUANTITIES

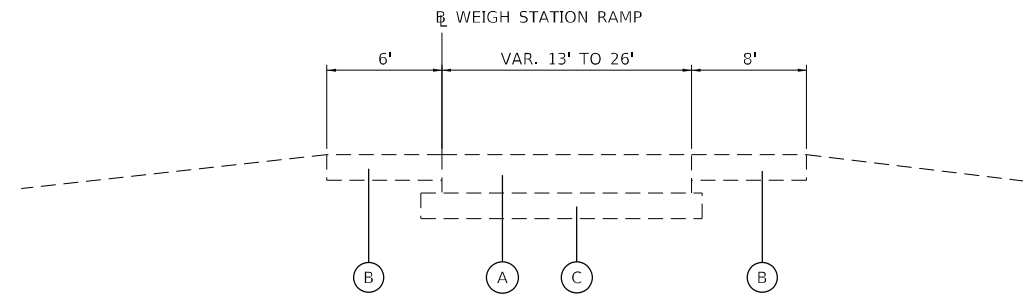
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P70	

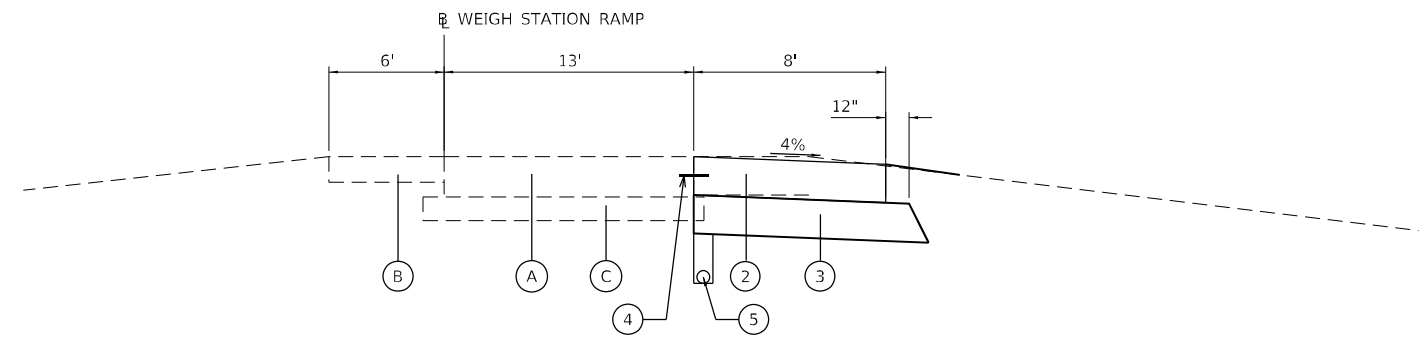
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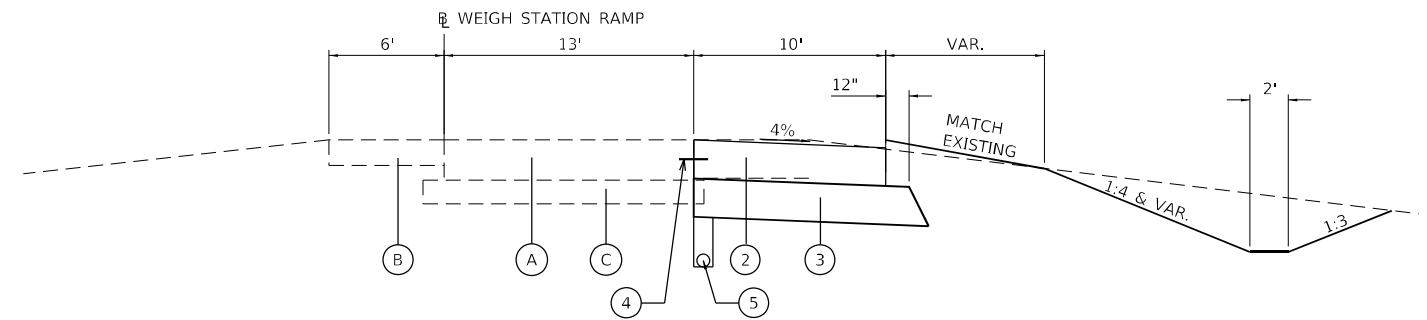
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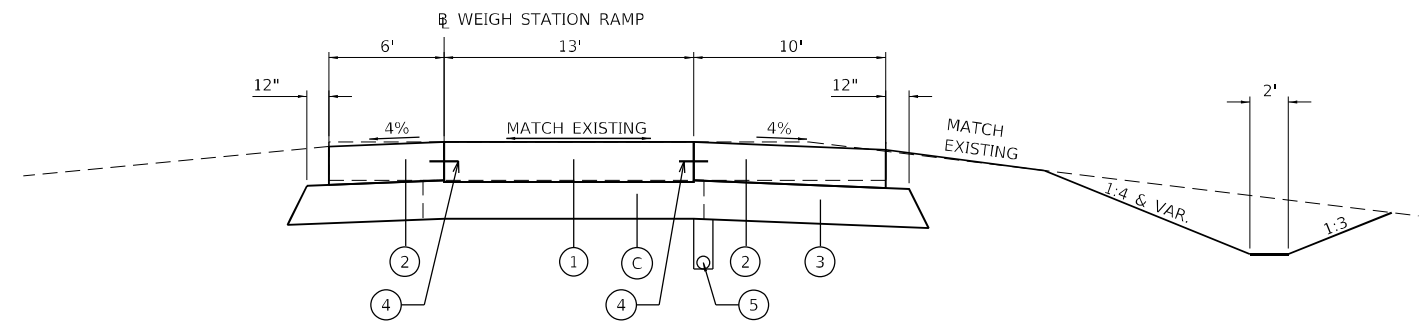
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STA 110+00 TO STA 112+82



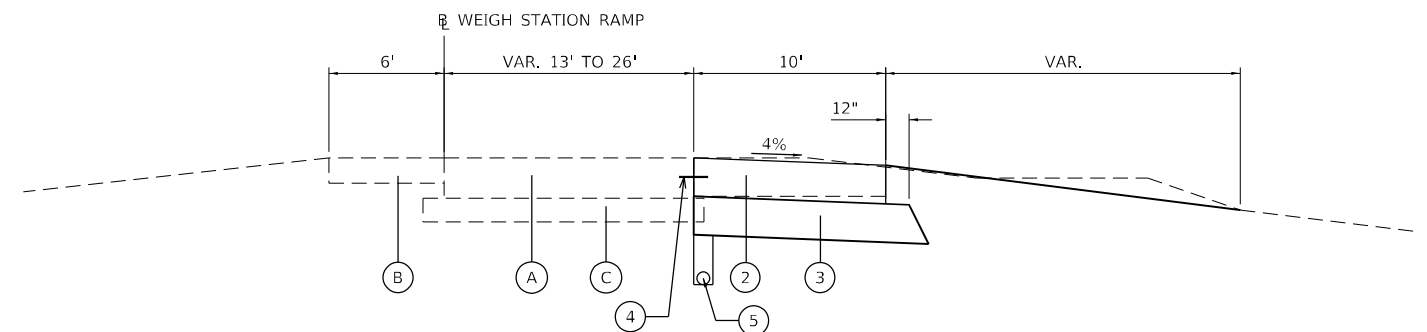
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STA 96+05 TO STA 103+10



PROPOSED TYPICAL SECTION 2
STA 103+10 TO STA 108+67
STA 109+33 TO STA 110+00



PROPOSED TYPICAL SECTION 3
STA 108+67 TO STA 109+33



PROPOSED TYPICAL SECTION 4
STA 110+00 TO STA 112+82

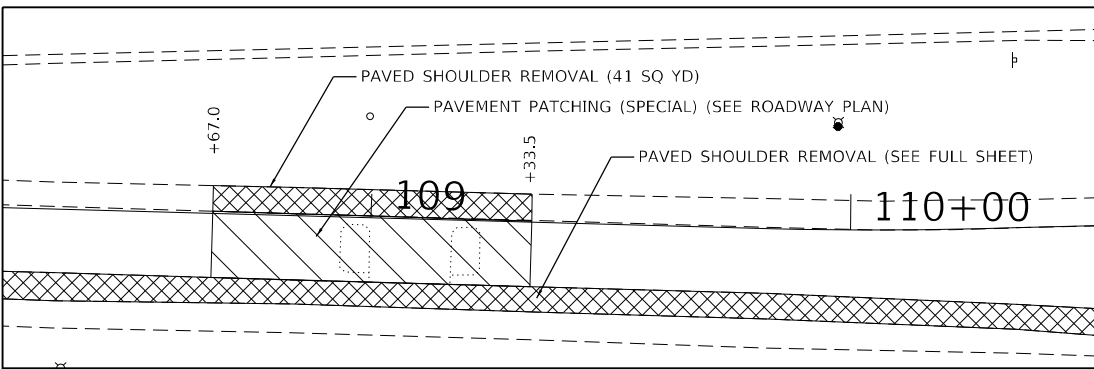
LEGEND

- (A) EXISTING PCC PAVEMENT (12¾")
- (B) EXISTING HMA SHOULDER (8")
- (C) EXISTING AGGREGATE SUBGRADE (12")
- (1) PROPOSED PAVEMENT PATCHING (SPECIAL) (12¾")
- (2) PROPOSED PCC SHOULDERS, 12"
- (3) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"
- (4) PROPOSED TIE BARS (IN ACCORDANCE WITH STD 420001 & 483001)
- (5) PROPOSED PIPE UNDERDRAINS, TYPE 2, 4"

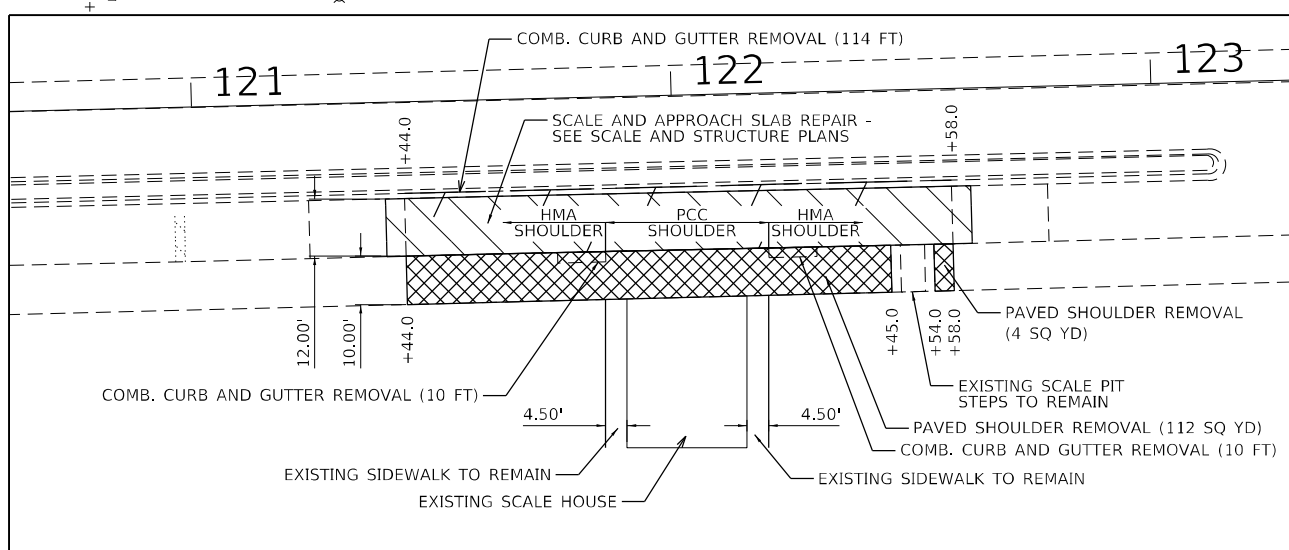
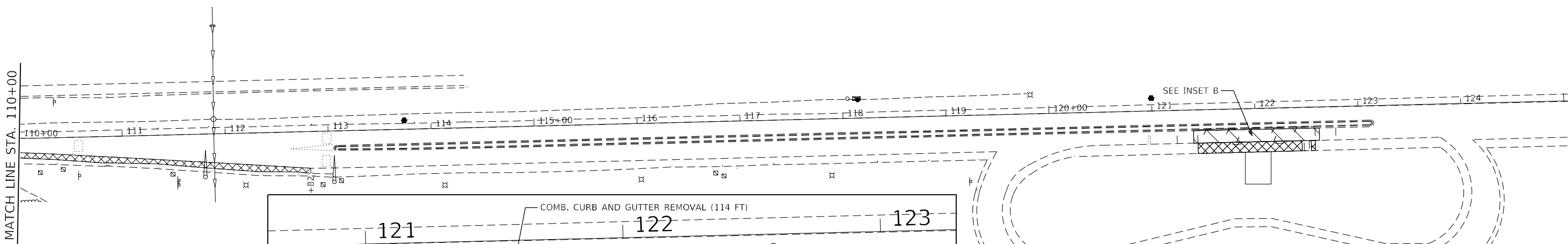
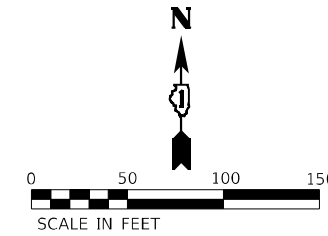
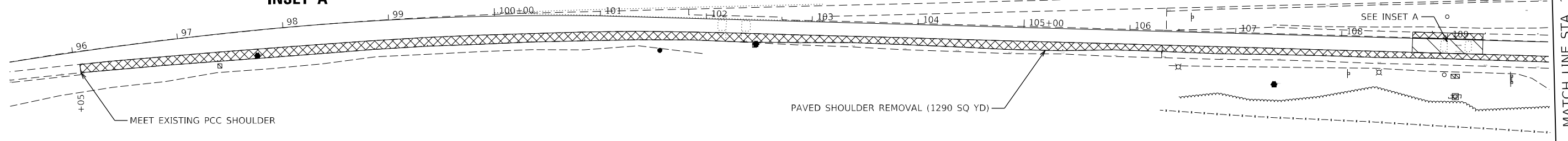
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PLOT DATE = 6/6/2022		

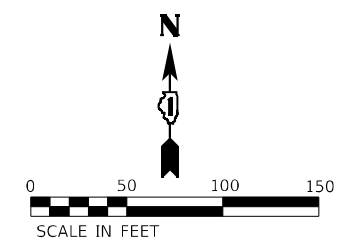
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P70	



INSET A



INSET B



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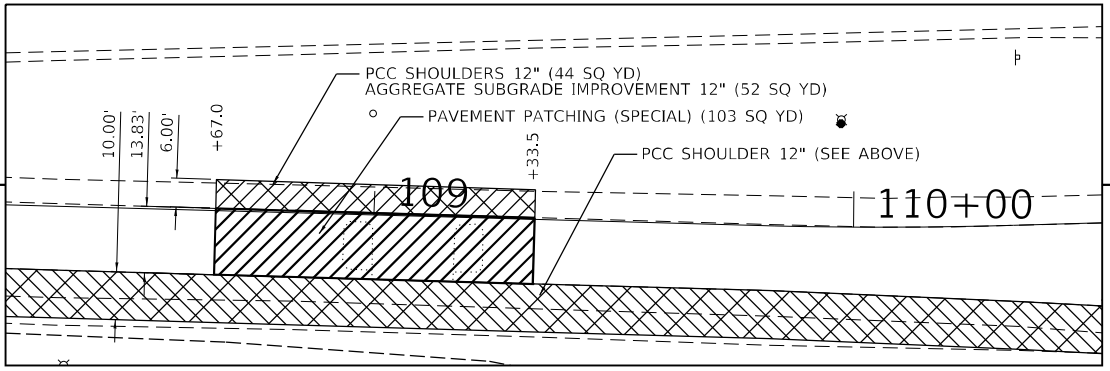
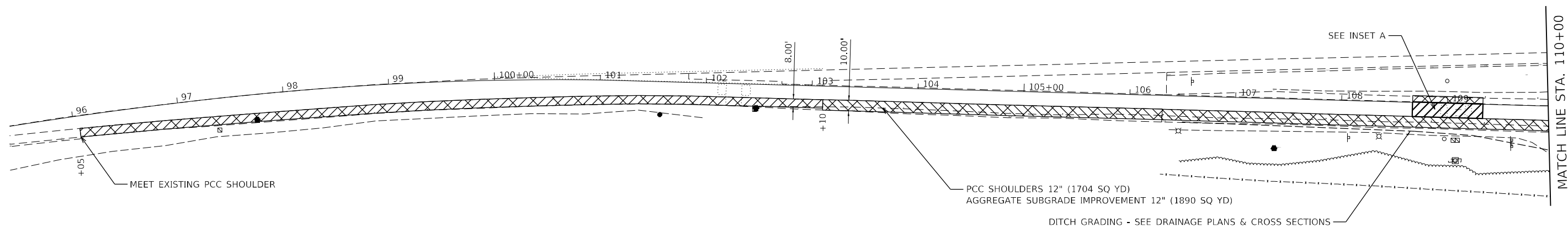
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

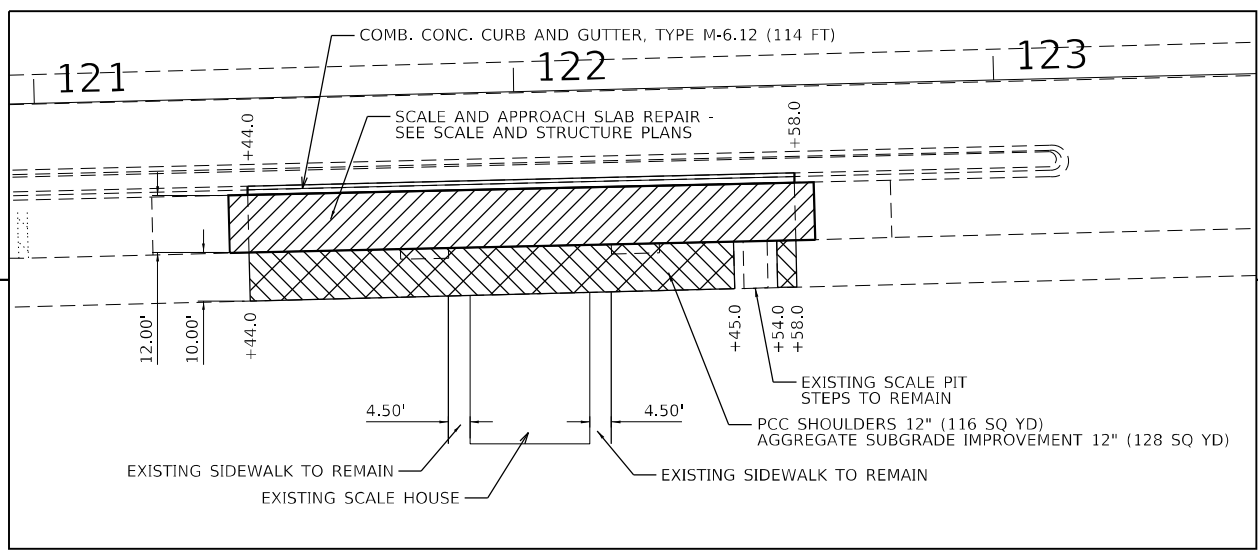
FAI 80 (I-80) EB WEIGH STATION
REMOVAL PLAN

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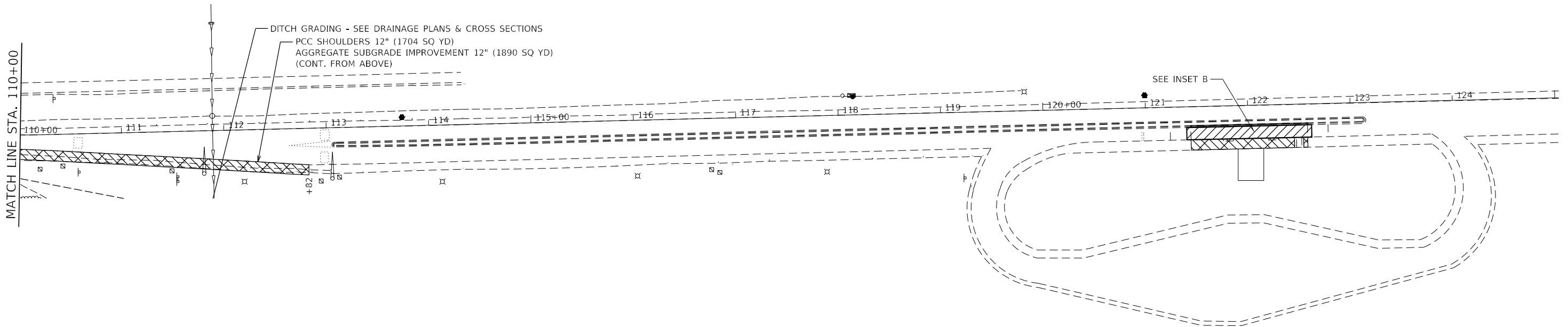
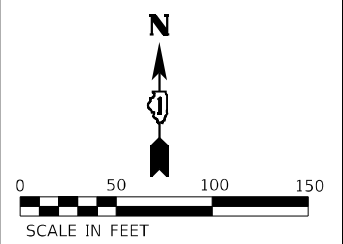
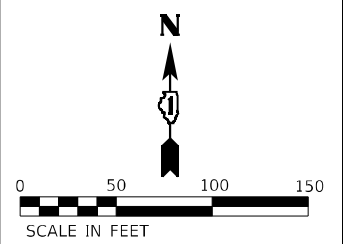
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	9
CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				



INSET A



INSET B



MODEL: Default
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EFK Moen
Civil Engineering Design

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 80 (I-80) EB WEIGH STATION
ROADWAY PLAN**

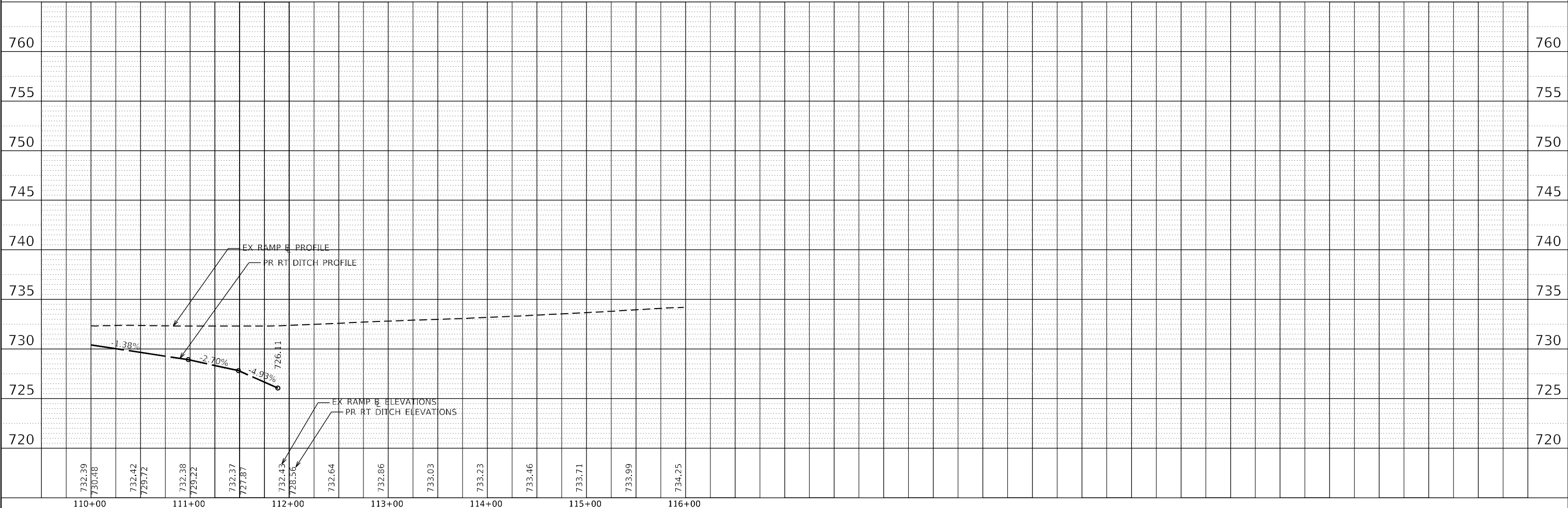
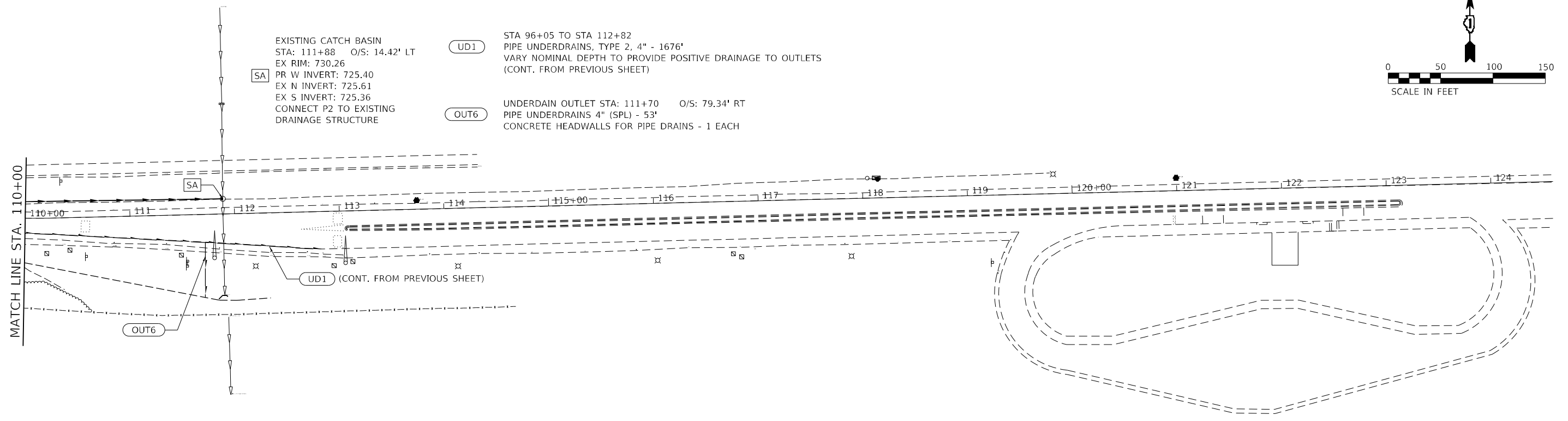
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F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 10
CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	GRADE CHECKED		
	STRUCTURE NOTATION CHECKED		
	CADD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATION CHECKED		
	NO.		

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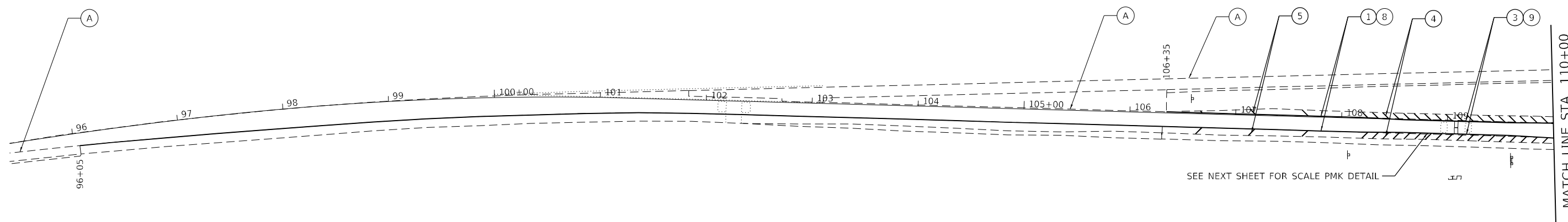
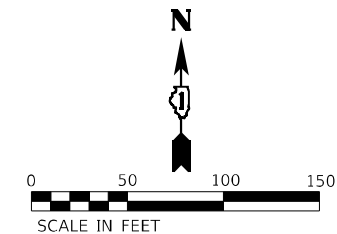
EFK Moen
Civil Engineering Design

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	DATE - 3/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

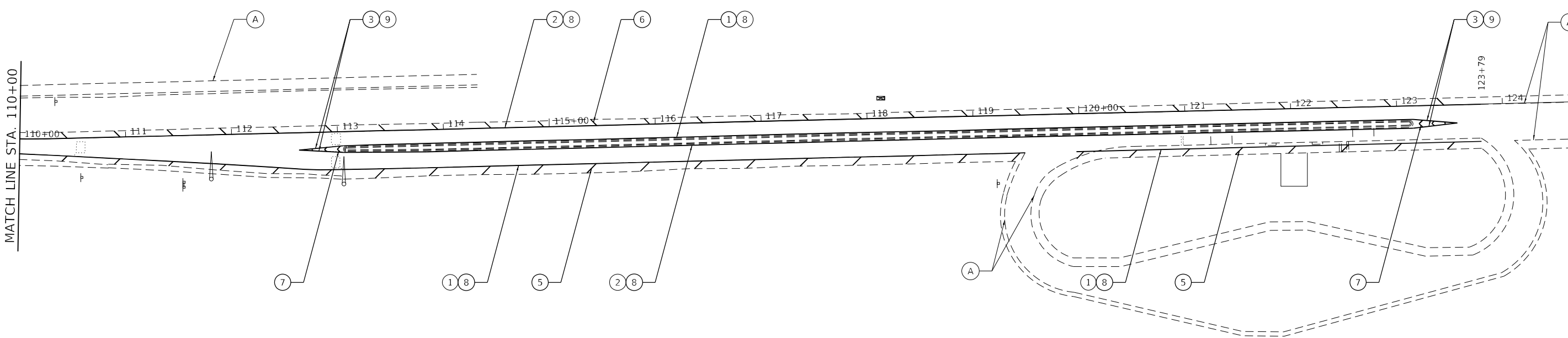
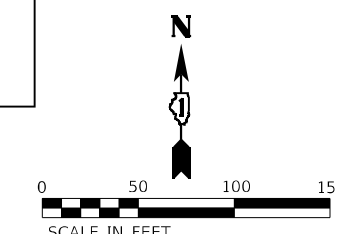
FAI 80 (I-80) EB WEIGH STATION PROPOSED DRAINAGE PLAN & PROFILE			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 12
CONTRACT NO. 62P70				
ILLINOIS		FED. AID PROJECT		



PAVEMENT MARKING LEGEND

- | | | | |
|--|--|---|---|
| (A) EXISTING PAVEMENT MARKING TO REMAIN | (2) PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 6" (YELLOW) | (5) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (50' - SPACING, 45° DIAGONAL, WHITE) | (8) GROOVING FOR RECESSED PAVEMENT MARKING 7" |
| (1) PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 6" (WHITE) | (3) PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 8" (WHITE) | (6) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (50' - SPACING, 45° DIAGONAL, YELLOW) | (9) GROOVING FOR RECESSED PAVEMENT MARKING 9" |
| | (4) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (10' - SPACING, 45° DIAGONAL, WHITE) | (7) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (45° DIAGONAL, 12' C-C, WHITE) | |



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	DATE - 3/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

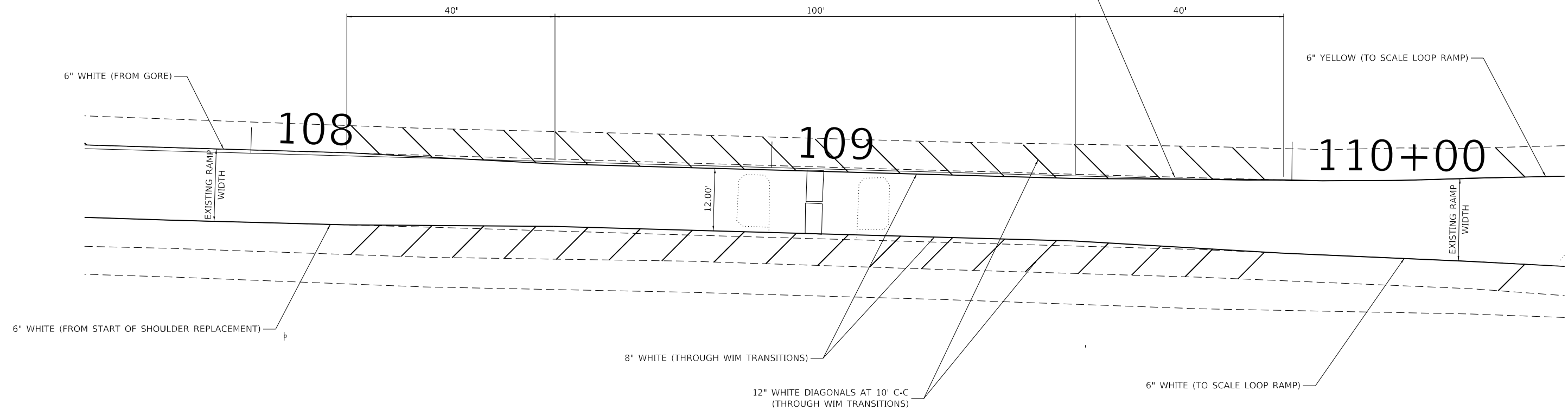
FAI 80 (I-80) EB WEIGH STATION
PAVEMENT MARKING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P70	

SEE PAVEMENT MARKING PLAN (PREVIOUS SHEET) FOR MORE INFORMATION

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS WITH PAVEMENT MARKING REMOVAL - WATERBLASTING.



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EFK Moen
Civil Engineering Design

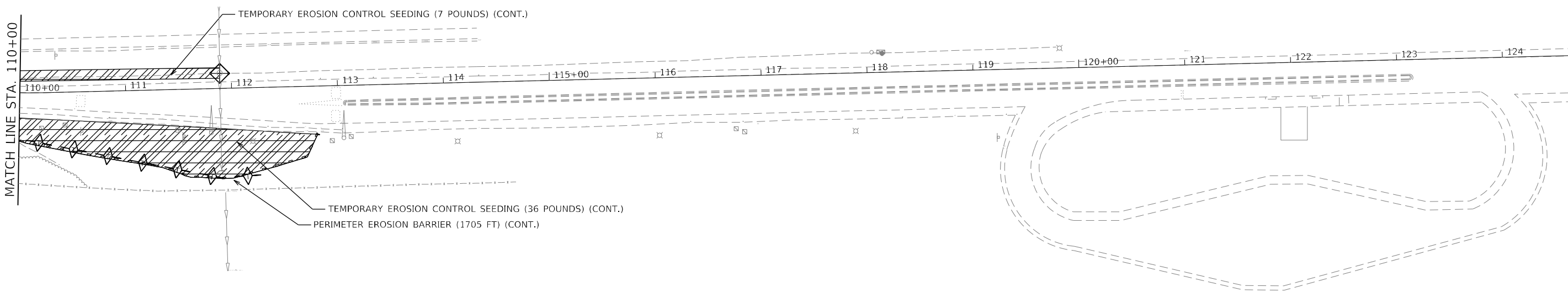
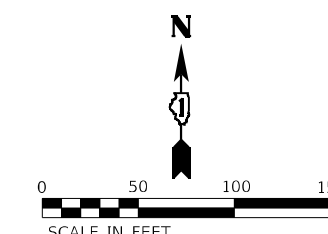
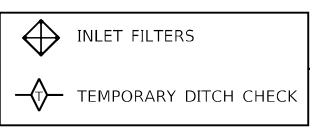
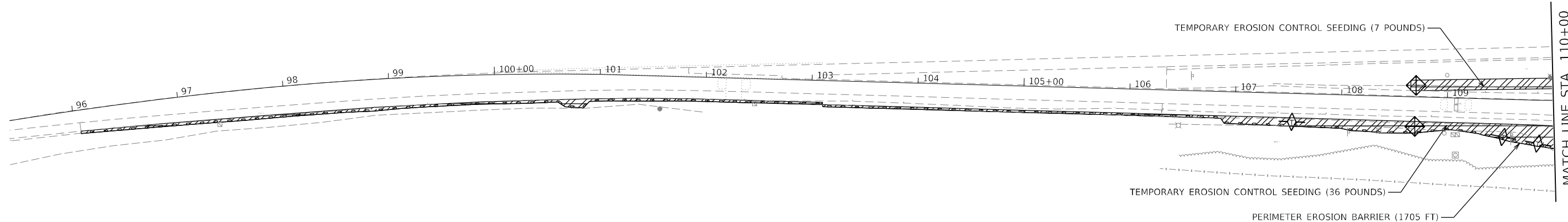
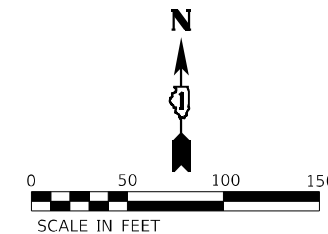
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PLOT DATE = 6/6/2022	DATE - 3/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 80 (I-80) EB WEIGH STATION
PAVEMENT MARKING DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				



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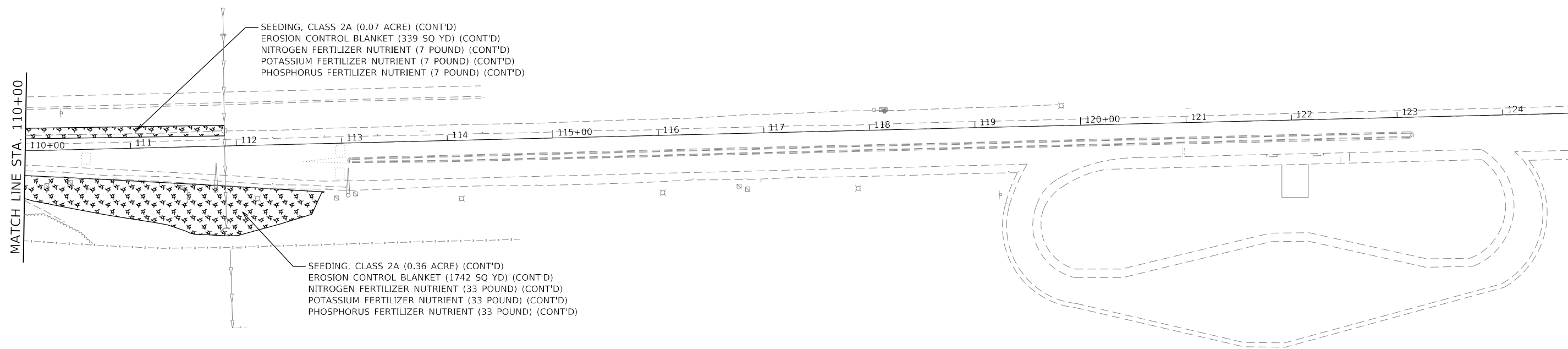
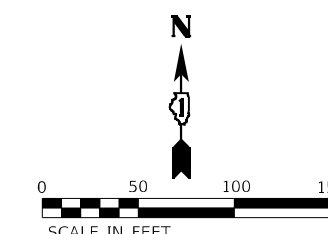
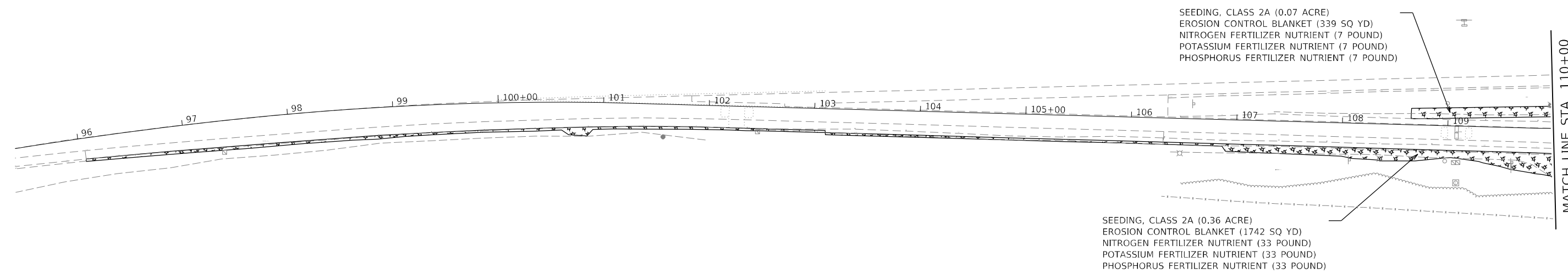
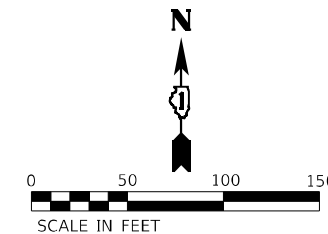
EFK Moen
Civil Engineering Design

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PLOT DATE = 6/6/2022	DATE - 3/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI 80 (I-80) EB WEIGH STATION EROSION CONTROL PLAN				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				



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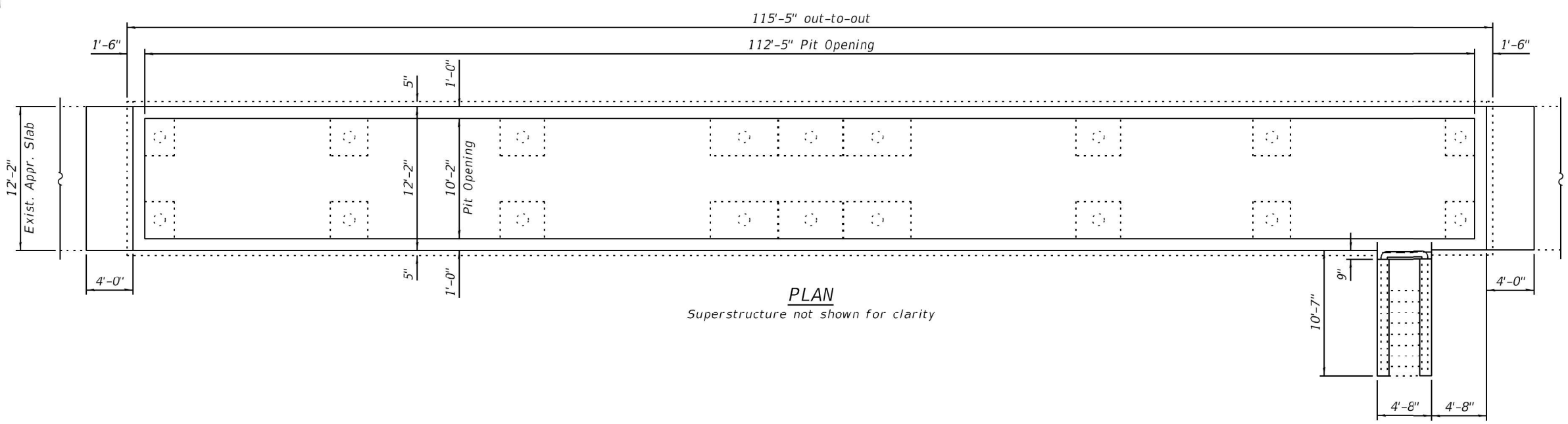
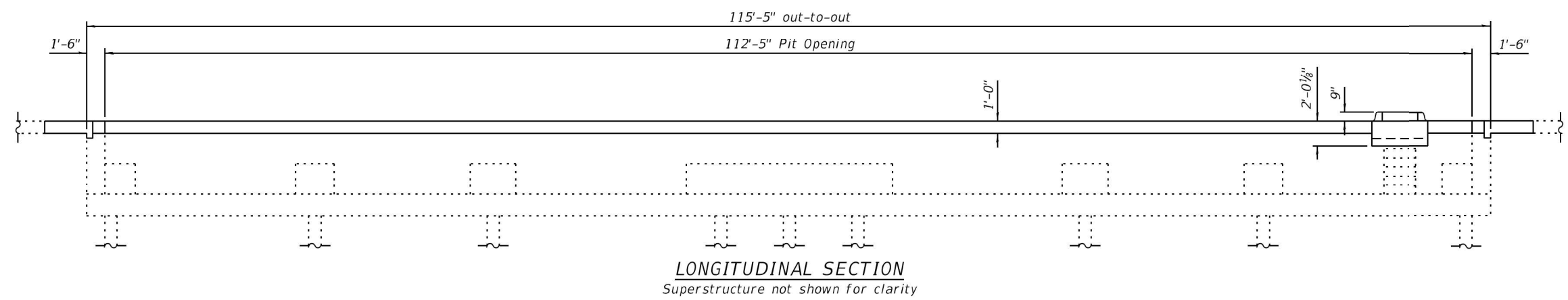
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PLOT DATE = 6/6/2022	DATE - 3/25/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAI 80 (I-80) EB WEIGH STATION
 LANDSCAPING PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	16
CONTRACT NO. 62P70			ILLINOIS FED. AID PROJECT	



GENERAL NOTES

All structural steel shall conform to AASHTO Classification Gr. 36, unless otherwise noted.
 Reinforcement bars designated (E) shall be epoxy coated.
 Plan dimensions and details relative to existing plans are subject to normal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost include Concrete Removal.
 Coping angles and stud shear connectors shall be galvanized according to AASHTO M111 or M232 as applicable. For painting of scale components see Special Provision.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing Superstructures	Each	1
Concrete Removal	Cu. Yd.	18.5
Concrete Structures	Cu. Yd.	18.5
Protective Coat	Sq. Yd.	38.3
Furnishing and Erecting Structural Steel	Pound	4650
Reinforcement Bars, Epoxy Coated	Pound	1590
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	20
Furnishing and Installing Static Scale Components	L. Sum	1

INDEX OF SHEETS

1. General Plan and Elevation
2. Concrete Removal
3. Concrete Replacement
4. Concrete Replacement
5. Curb Removal at Pit Entrance
6. Curb Replacement at Pit Entrance

GENERAL PLAN & ELEVATION
E.B. FRANKFORT WEIGH STATION
F.A.I. RTE. 80 - SEC. 2021-153-WS
WILL COUNTY
STATION 989+44.94

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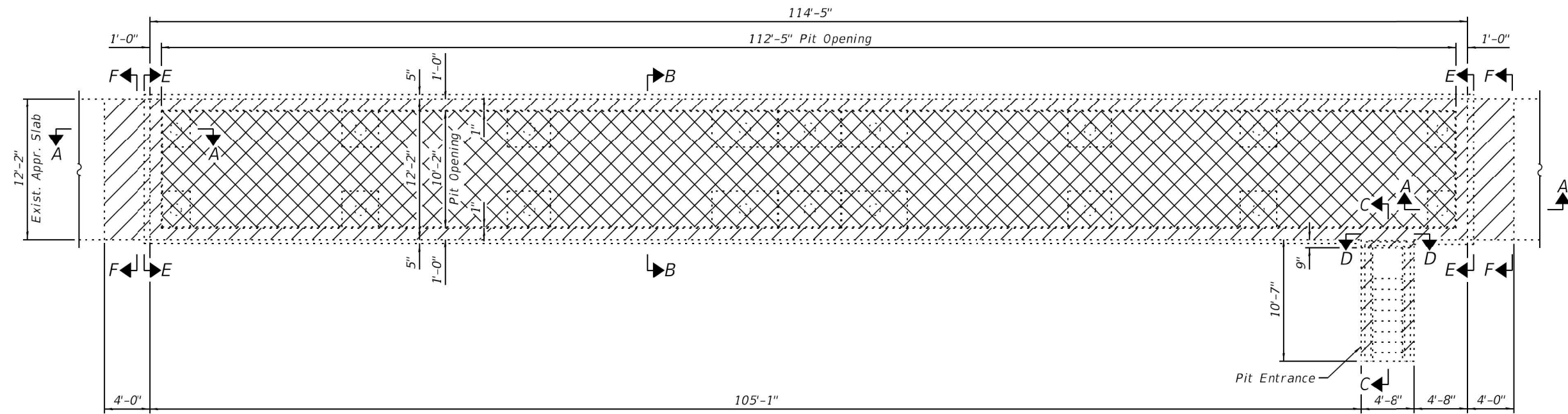
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

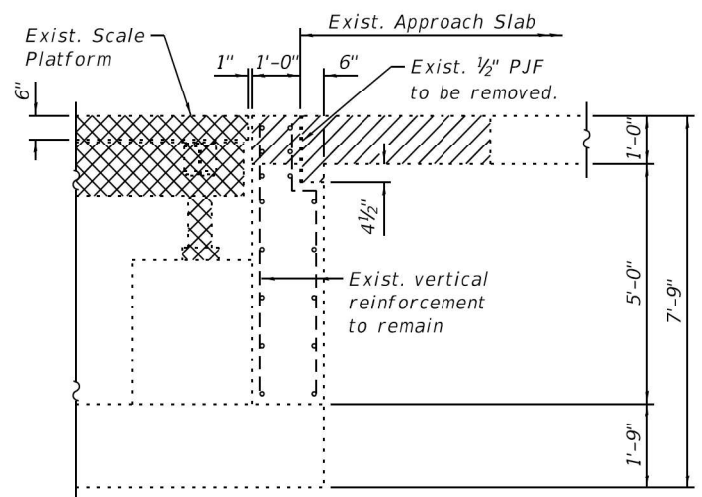
GENERAL PLAN AND ELEVATION
E.B. FRANKFORT WEIGH STATION

SHEET 1 OF 6 SHEETS

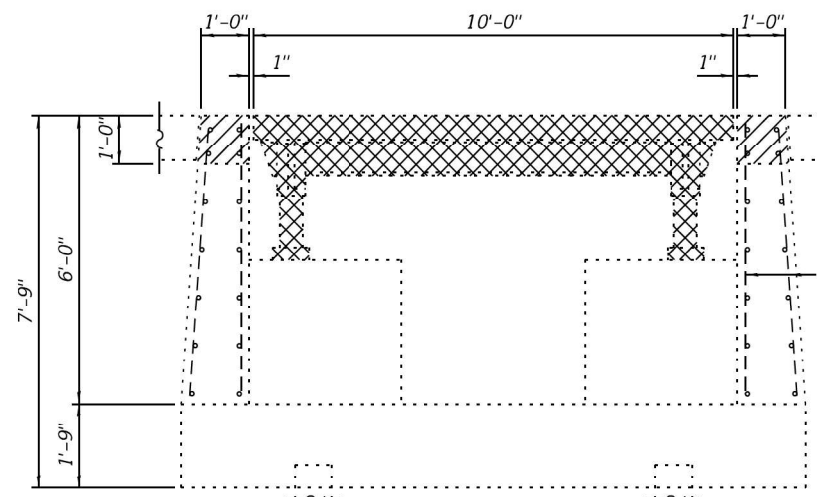
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CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				



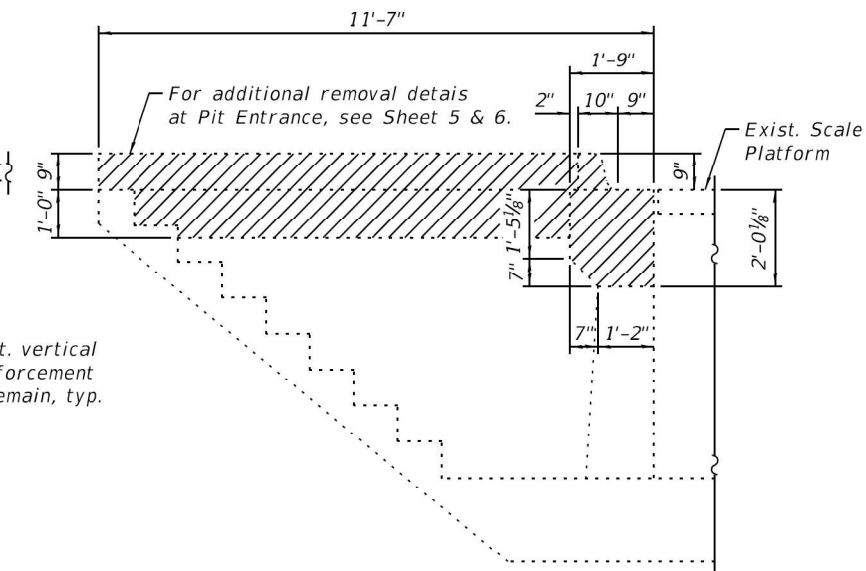
REMOVAL PLAN



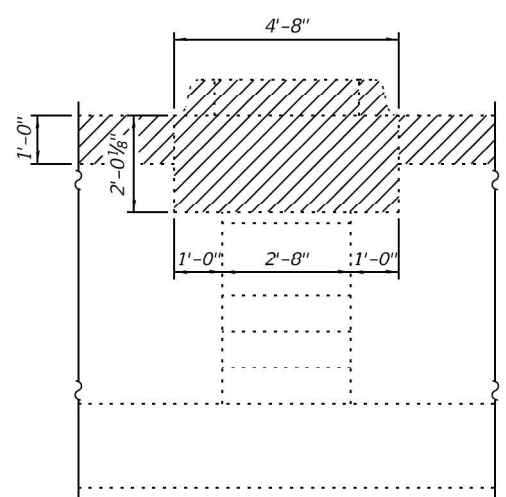
SECTION A-A



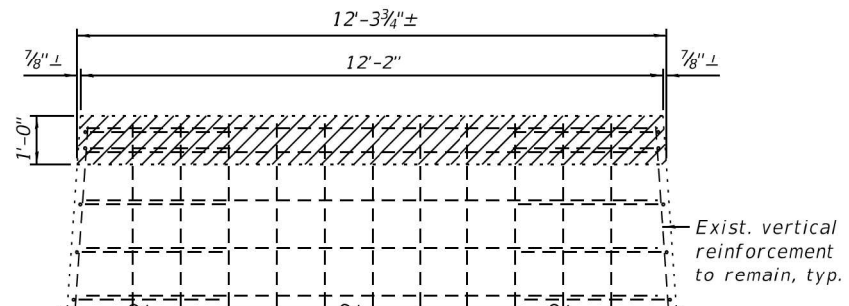
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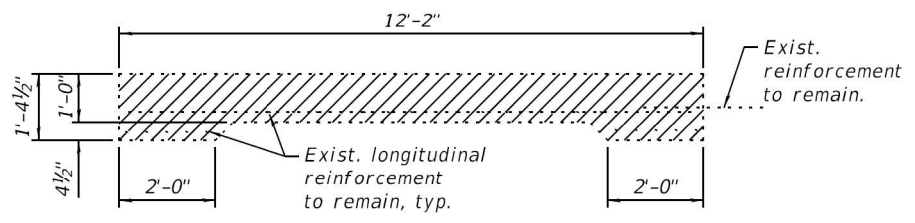
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

Notes:
 Hatched areas indicate Concrete Removal.
 Cross hatched areas indicate Removal of Existing Superstructures.

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EFK Moen
 Civil Engineering Design

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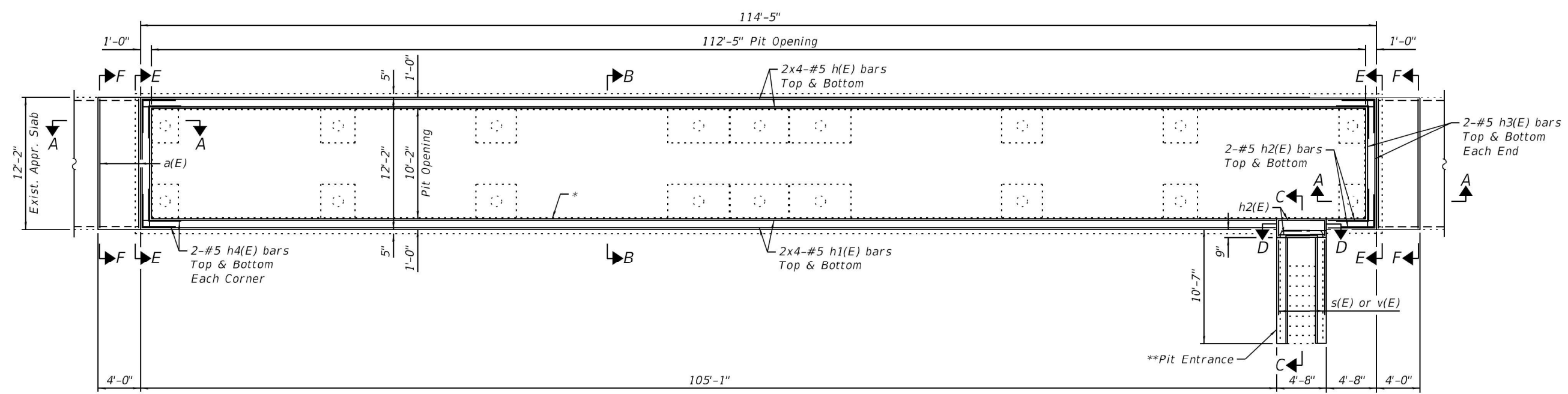
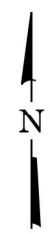
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL
 E.B. FRANKFORT WEIGH STATION

SHEET 2 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	18
CONTRACT NO. 62P70				

ILLINOIS FED. AID PROJECT



REPLACEMENT PLAN

- * Structural Repair of Concrete $\leq 5"$ below concrete removal areas. Locations and size to be determined by the Engineer in the field.
- ** For Pit Entrance wall repair plans, pay items, and quantities, see Sheets 4 and 5.

MIN. BAR LAP
#5 bar = 3'-7"

Notes:
See Sheet 4 of 6 for Section A-A, B-B, C-C, D-D, E-E, and F-F.
See Sheet 4 of 6 for bar bending details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

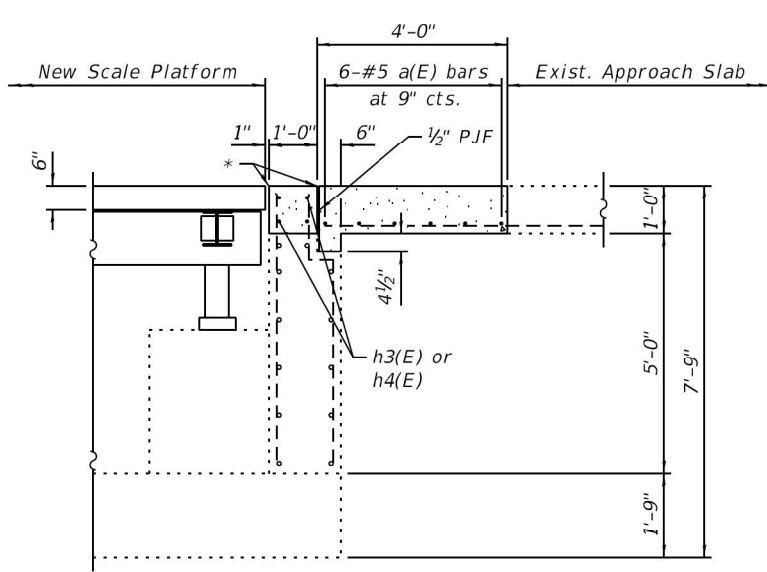
**CONCRETE REPLACEMENT
E.B. FRANKFORT WEIGH STATION**

SHEET 3 OF 6 SHEETS

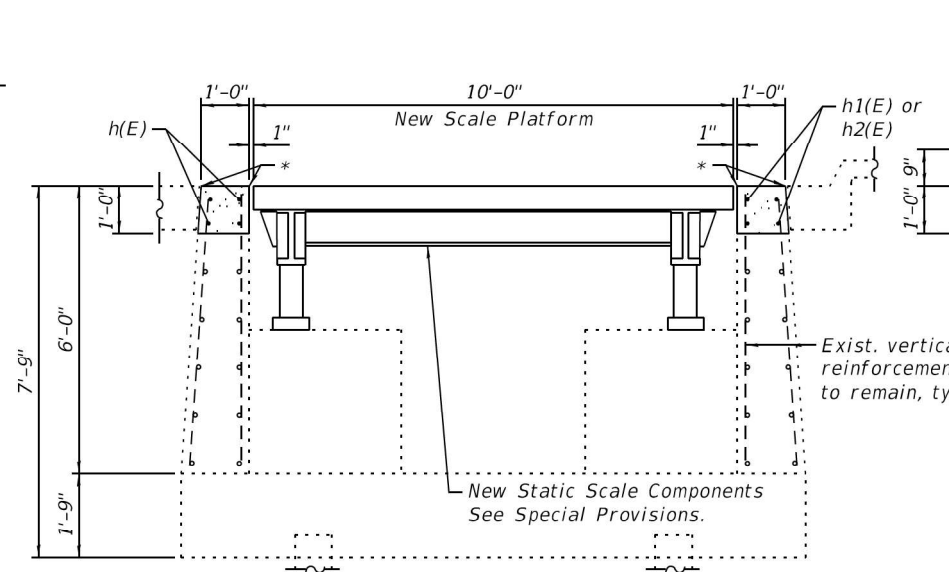
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			CONTRACT NO. 62P70	

ILLINOIS FED. AID PROJECT

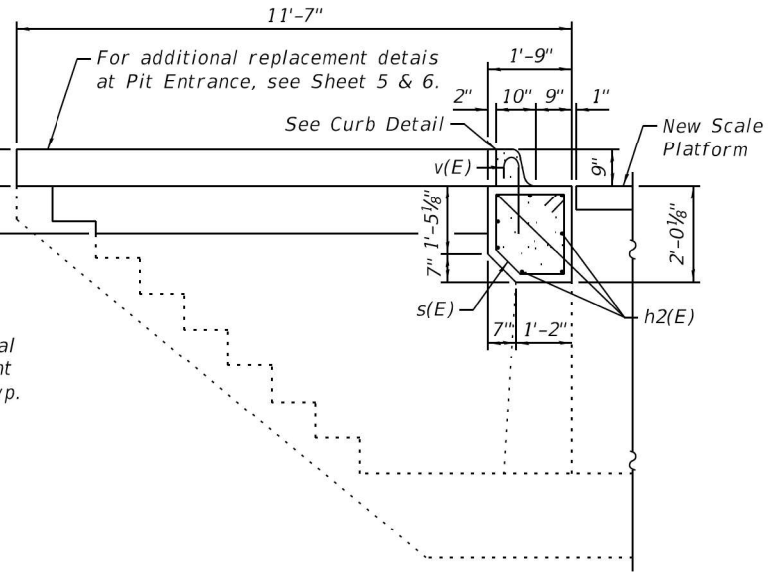
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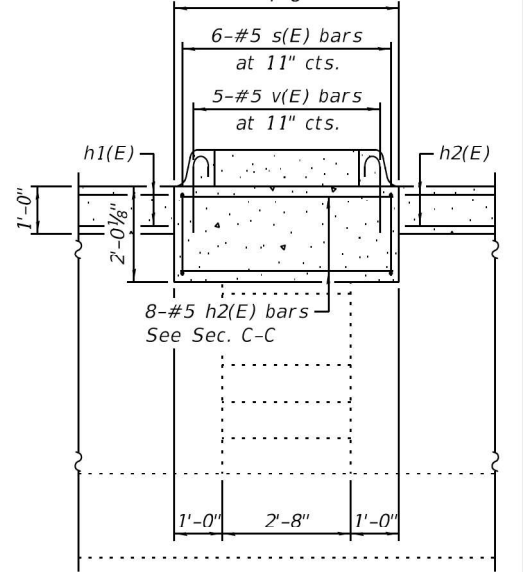
SECTION A-A



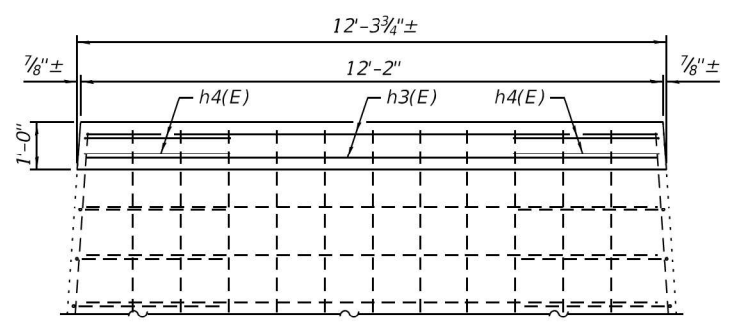
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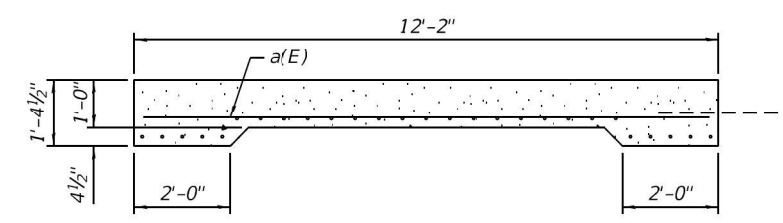
SECTION C-C



SECTION D-D

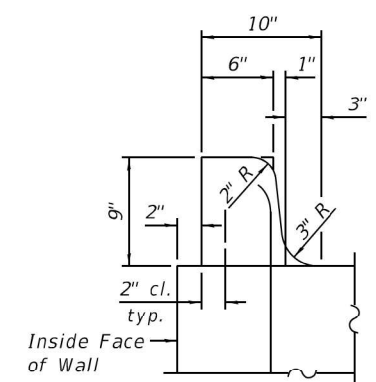


SECTION E-E

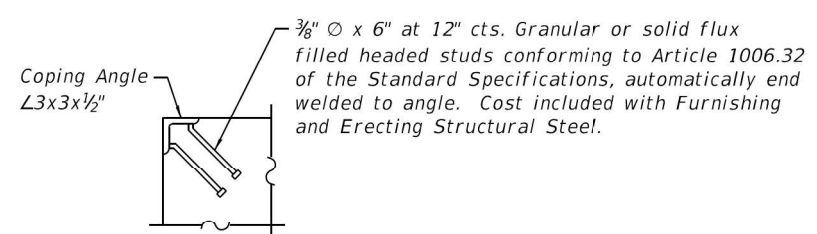


SECTION F-F

* Prop. Coping Angle $\angle 3x3x1/2$
 (See Coping Detail)

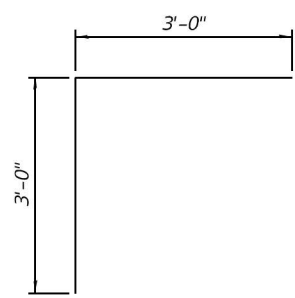


CURB DETAIL

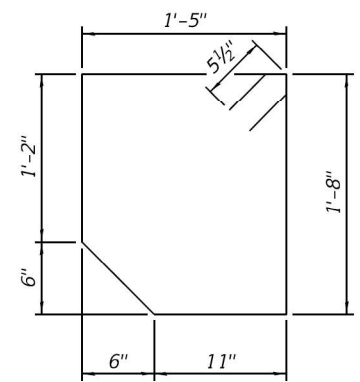


COPING DETAIL

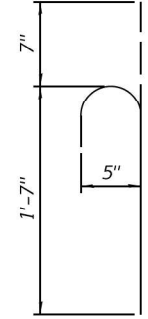
Steel Coping shall be paid for as Furnishing and Erecting Structural Steel.



BAR h4(E)



BAR s(E)

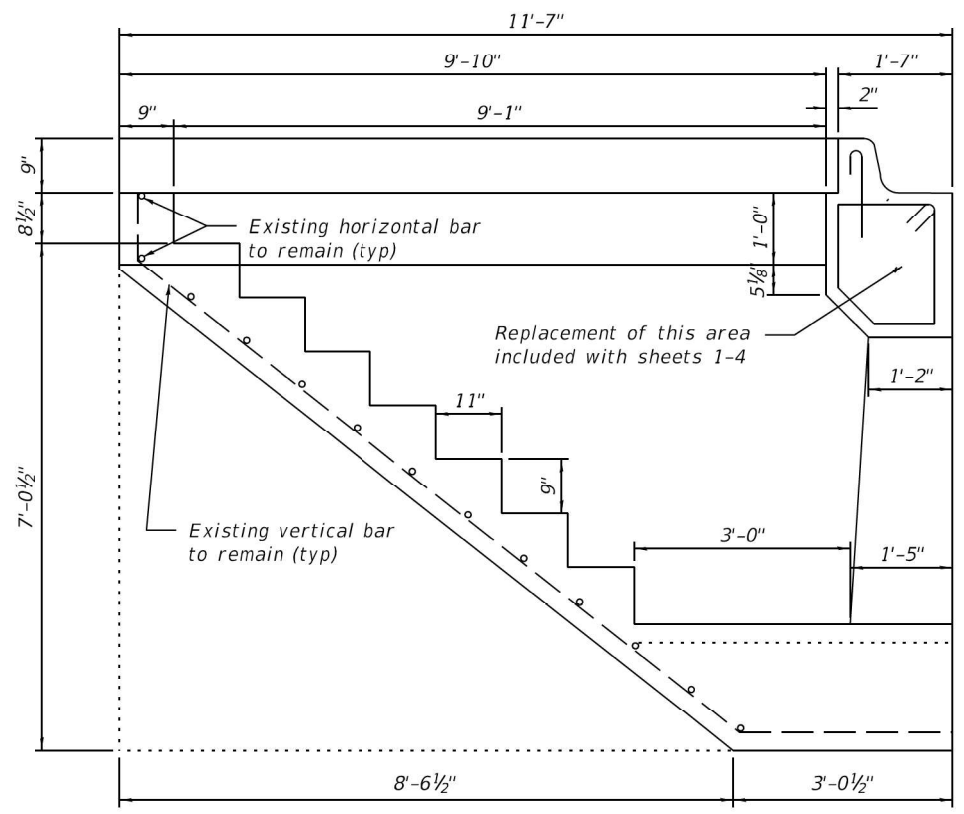


BAR v(E)

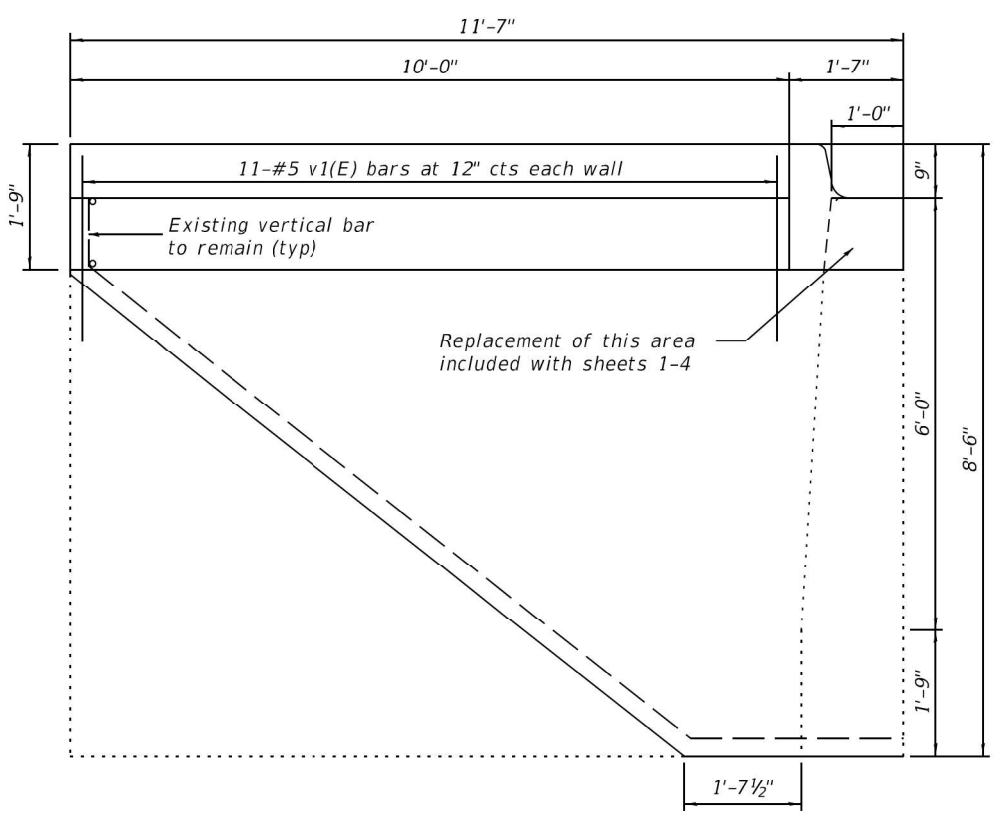
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	12	#5	11'-8"	—
h(E)	16	#5	31'-3"	—
h1(E)	16	#5	28'-11"	—
h2(E)	12	#5	4'-4"	—
h3(E)	8	#5	11'-10"	—
h4(E)	16	#5	6'-0"	Γ
s(E)	6	#5	6'-10"	□
v(E)	5	#5	2'-2"	—
Concrete Removal			Cu. Yd.	17.2
Concrete Structures			Cu. Yd.	17.2
Reinforcement Bars, Epoxy Coated			Pound	1460

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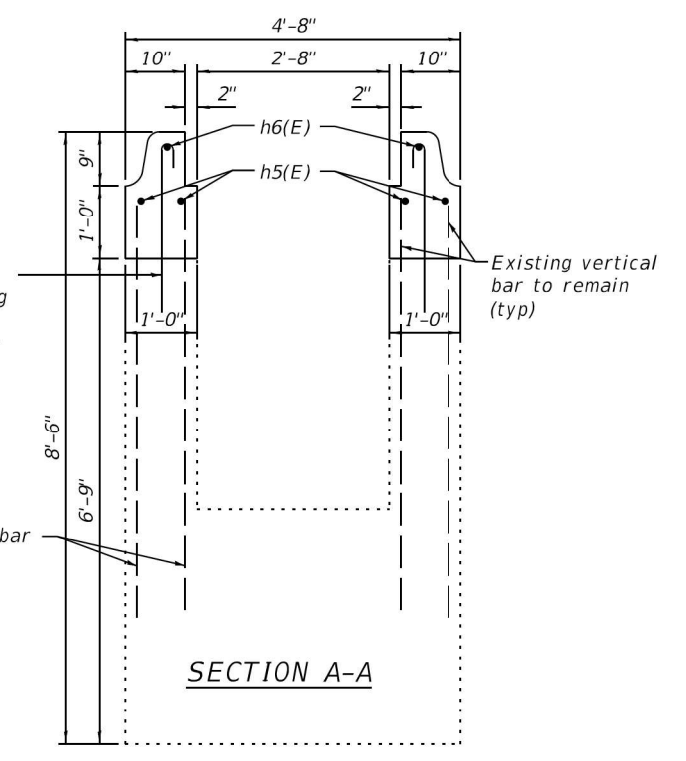


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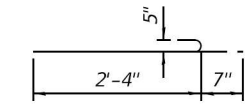


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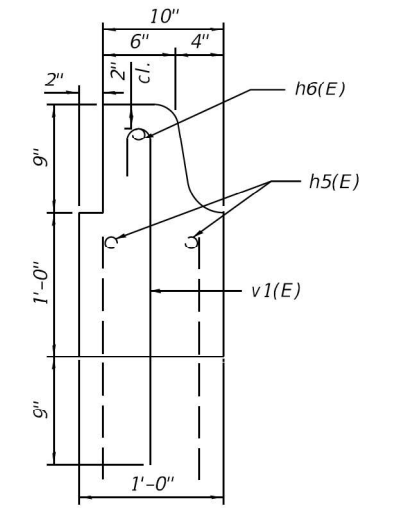
Epoxy grout n(E) bars in 9" min. hole according to Article 584 of the Standard Specifications



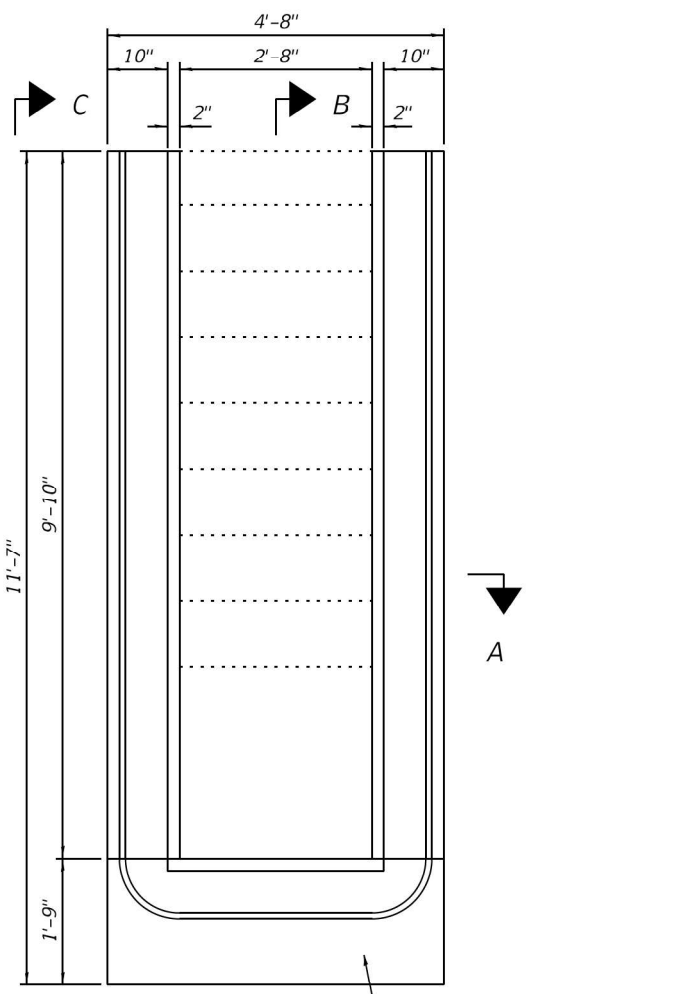
SECTION A-A



BAR v1(E)



9" CURB DETAIL

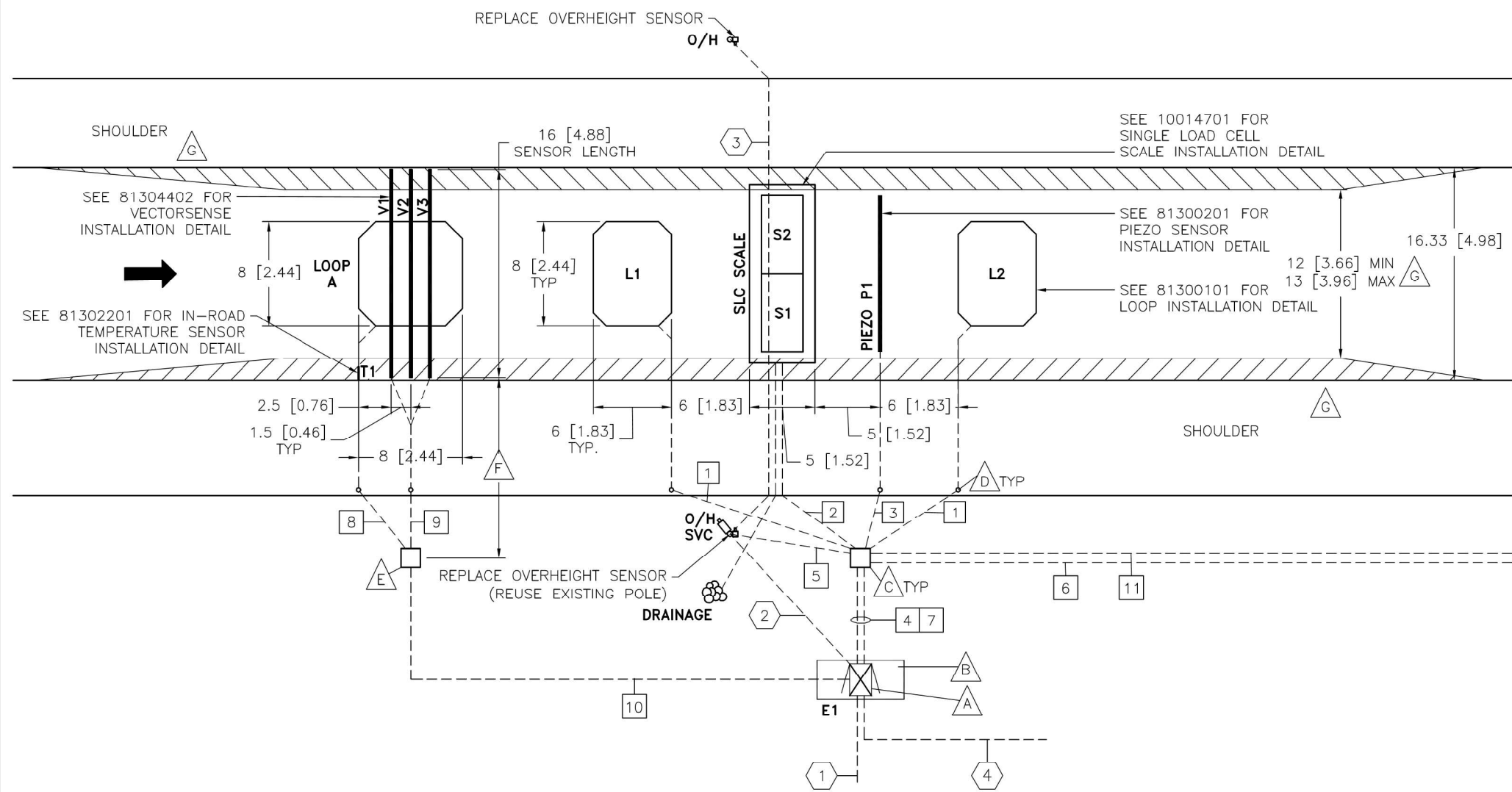


PLAN VIEW

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	4	#5	9'-6"	—
h6(E)	2	#5	9'-8"	—
v1(E)	22	#5	2'-11"	⌋
Concrete Removal			Cu. Yd.	1.3
Concrete Structures			Cu. Yd.	1.3
Reinforcement Bars, Epoxy Coated			Pound	130

DETAIL A



SIGNAL CONDUITS: (THIS SHEET ONLY)

- 1 1" CONDUIT
1-2C 14AWG (LOOP WIRE)
- 2 2" CONDUIT
2-3PR 20AWG (SLC LEAD)
1-2C 18AWG (OFF-SCALE LEAD)
- 3 1" CONDUIT
1-RG58 COAXIAL CABLE (PIEZO LEAD)
- 4 2" CONDUIT
5-2C 14AWG (LOOP LEADS)
1-RG58 COAXIAL CABLE (PIEZO LEAD)
2-3PR 20AWG (SLC LEAD)
4-2C 18AWG (OFF-SCALE LEAD)
- 5 2" CONDUIT
1-2C 18AWG (OVERHEIGHT SIGNAL)
1-CAT5 NETWORK CABLE (SVC)
- 6 2" CONDUIT
1-12 STRAND MULTIMODE FIBER OPTIC CABLE
- 7 2" CONDUIT
1-12 STRAND MULTIMODE FIBER OPTIC CABLE
1-2C 18AWG (OVERHEIGHT SIGNAL)
1-CAT5 NETWORK CABLE (SVC)
- 8 2" CONDUIT
1-2C 14AWG (LOOP WIRE)
1-TEMPERATURE SENSOR LEAD
- 9 1" CONDUIT
3-COAXIAL CABLE (VECTORSENSE LEAD)
- 10 2" CONDUIT
2-CAT5 NETWORK CABLE
1-8AWG GROUND WIRE
- 11 2" CONDUIT
3-2C 14AWG (LOOP LEAD)

POWER CONDUITS: (THIS SHEET ONLY)

- 1 E1 ENCLOSURE POWER (SEE DWG 81300907 FOR DETAIL)
- 2 2" CONDUIT
2-2C + GND 0.6A (OVERHEIGHT POWER)
- 3 2" CONDUIT
1-2C + GND 0.3A (OVERHEIGHT POWER)
- 4 2" CONDUIT
LCS POWER

NOTES: (THIS SHEET ONLY)

- A CABINET WITH WIM ELECTRONICS.
- B CABINET BASE.
- C PULL BOX.
- D DRILL THROUGH SHOULDER FOR CONDUIT.
- E PULL BOX WITH VECTORSENSE ELECTRONICS.
- F MAX 16 [4.88] FROM END OF SENSORS TO CENTER OF FIRST PULL BOX.
- G TAPER LANE STRIPING TO CREATE 12 [3.66] TO 13 [3.96] LANE TO DIRECT VEHICLES OVER CENTER OF SENSORS.

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
1	PRELIMINARY RELEASE	MKa/TDe			

CONFIDENTIAL <small>THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO IRD AND IS THEREFORE NOT TO BE DISCLOSED TO OTHERS OR USED FOR PRODUCTION WITHOUT WRITTEN PERMISSION FROM INTERNATIONAL ROAD DYNAMICS INC.</small>	INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA	
	DWG. TITLE: SITE LAYOUT RAMP SORTER SYSTEM I-80 FRANKFORT (WB)	
	NOT TO SCALE	DWG. No. MILRSS14 REV.: 1
	SIZE: B	CAD FILE: MILRSS14_1.DWG SHEET 2 OF 2
DIMENSIONS IN: FEET [m]		

MODEL: Default; FILE NAME: 2110038.18 IDOT D1 PFB 192-07 W0.1B EB 180 Weigh Station Design Prelim Plot Sheet Scales Sheet 2 of 2.dwg



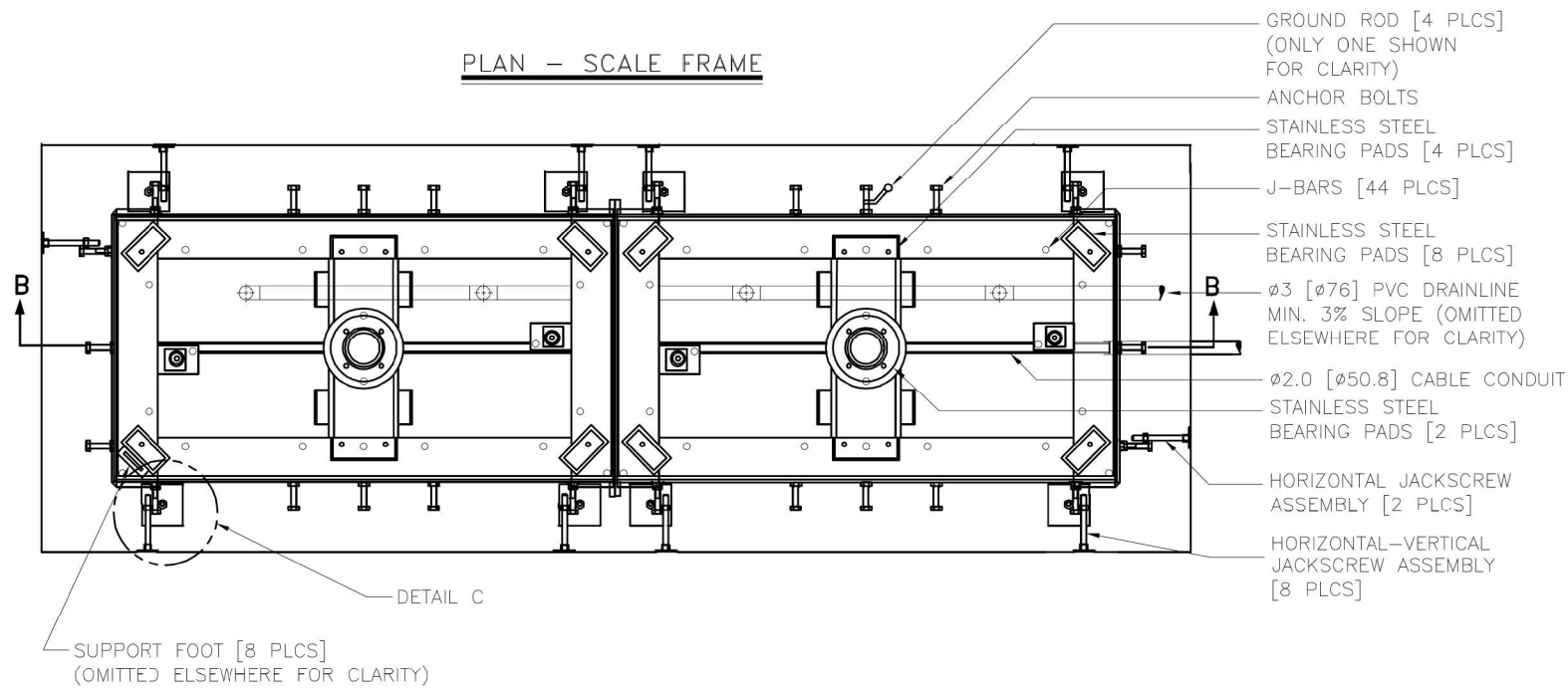
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	DRAWN - AN	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - JH	REVISED -
PLOT DATE = 6/6/2022	DATE - 3/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 80 (I-80) EB WEIGH STATION
WEIGH-IN-MOTION SCALE DETAILS**

SCALE: SHEET 2 OF 14 SHEETS STA. TO STA.

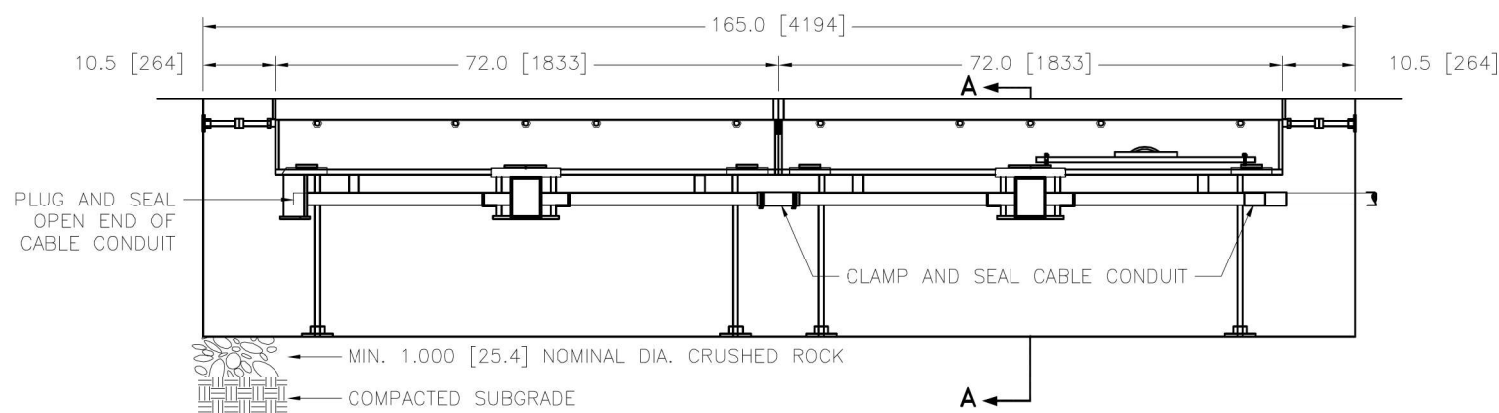
F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P70	



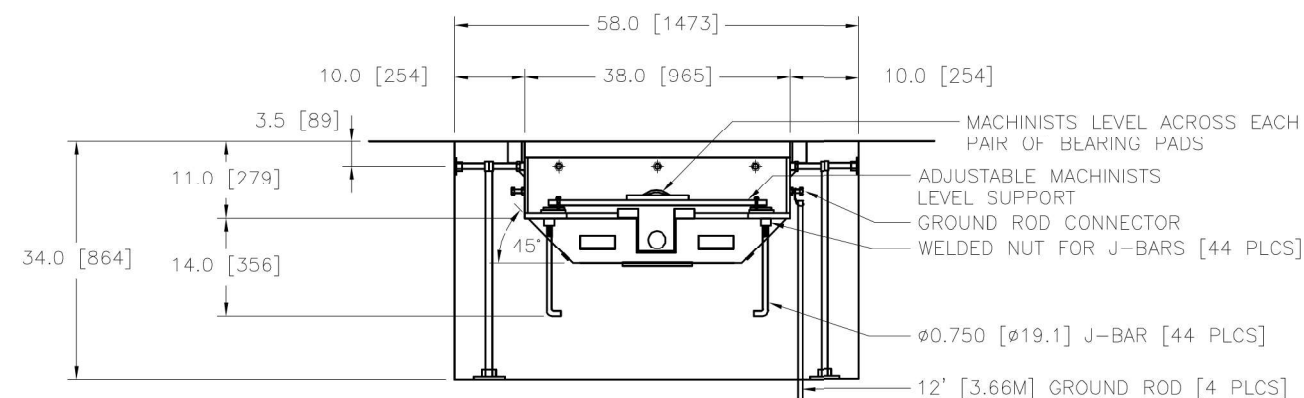
GENERAL INSTALLATION INSTRUCTIONS:

- SHIPMENT INCLUDES: FRAMES, J-BARS, O-RINGS, ALL NECESSARY CONCRETE ANCHOR BOLTS, JACK SCREWS, LOCATING SCREWS, SUPPORT PADS, CONDUIT CONNECTING HOSE AND CLAMPS.
- INSTALL CONCRETE ANCHOR BOLTS, JACK SCREWS AND J-BARS ONTO SCALE FRAMES.
- EXCAVATE SCALE VAULT TO DEPTH OF 40" [1016mm] AND COMPACT PIT BOTTOM. TIGHTEN JAMB NUTS.
- PLACE 6" [152.4mm] OF 1" [25.4mm] NOMINAL CRUSHED ROCK AND VIBRATE COMPACT.
- INSTALL GROUND CLAMPS AND GROUND RODS.
- SET FRAME IN PREPARED PIT WITH NECESSARY REBAR CAGE IN PLACE.
- INSTALL DRAIN PIPES AND CONDUITS. SEAL ALL CONNECTIONS. DRAINAGE AT EDGE OF ROADWAY MUST ALLOW FREE FLOW AWAY FROM THE OUTLET OF DRAIN PIPE. THE OUTLET MUST BE WELL ABOVE THE HIGH WATER LEVEL OF THE DITCH OR MANHOLE. THE FLOW ALONG THE DRAIN AND AWAY FROM THE OUTLET MUST BE MAINTAINED AT ALL TIMES.
- USE JACK SCREWS TO POSITION FRAME PROPERLY - HORIZONTALLY AND VERTICALLY.
- LOCATE THE EDGE OF THE SCALE FRAME FLUSH WITH THE SURROUNDING ROAD SURFACE USING A 6' LEVEL.
- FINAL SET OF THE SCALE USING A MACHINISTS LEVEL MOUNTED ON AN ADJUSTABLE SUPPORT, SPANNING ACROSS THE ADJACENT SCALE BEARING PADS TO ENSURE THAT ALL FRAME EDGES ARE PARALLEL AND THERE IS NOT TWIST IN THE SCALE FRAME.
- WET PIT WALLS.
- POUR AND VIBRATE CONCRETE AROUND FRAME. CONCRETE SHOULD HAVE MAX SLUMP OF 3" [76.2mm].
- SLOPE AND FINISH SCALE FRAME FLOOR FOR PROPER DRAINAGE TO DRAIN PIPE INLET.
- CONCRETE MUST MEET THE FOLLOWING SPECIFICATIONS:
 1500PSI [10MPa] - INSTALL PLATFORM IN FRAME
 3000PSI [20MPa] - OPEN TO TRAFFIC
 4500PSI [30MPa] - ULTIMATE STRENGTH

SECTION B-B

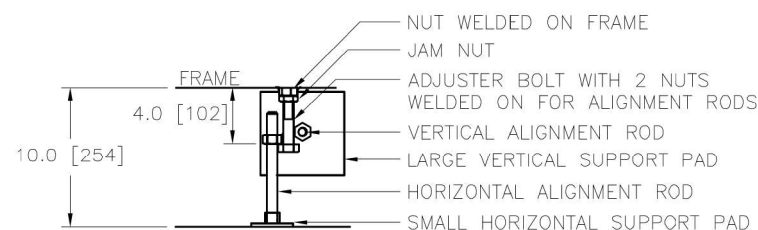


SECTION A-A



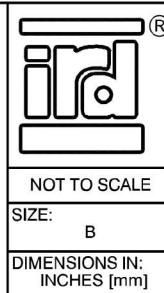
DETAIL C

FLAME ALIGNMENT JACK SCREWS



REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
A	RELEASED AS REV. A.	B.B.	R.Cz.	R.J.K.	DEC 1/95
B	ADD ANGLE BRACKETS. CHANGE DRAIN TO ABS PIPE.	D.J.B.	DP	RCz	NOV 7/97
C	CHANGE CABLE CONDUIT FROM 1.5" TO 2". ECO-06	LHo/GDo	GD	DBz	MAY 23/01
D	ADD PLATFORM LIFTING HOLES. CONCRETE STRENGTH REQUIREMENTS, CHANGE DOWEL. ECO-08	LHo/GDo	BCI	GD	June 28/05
E	CHANGE DRAIN, UPDATE NOTES - AS PER ECO-13630	MKa/THa	THa	JBu	APR 23/19

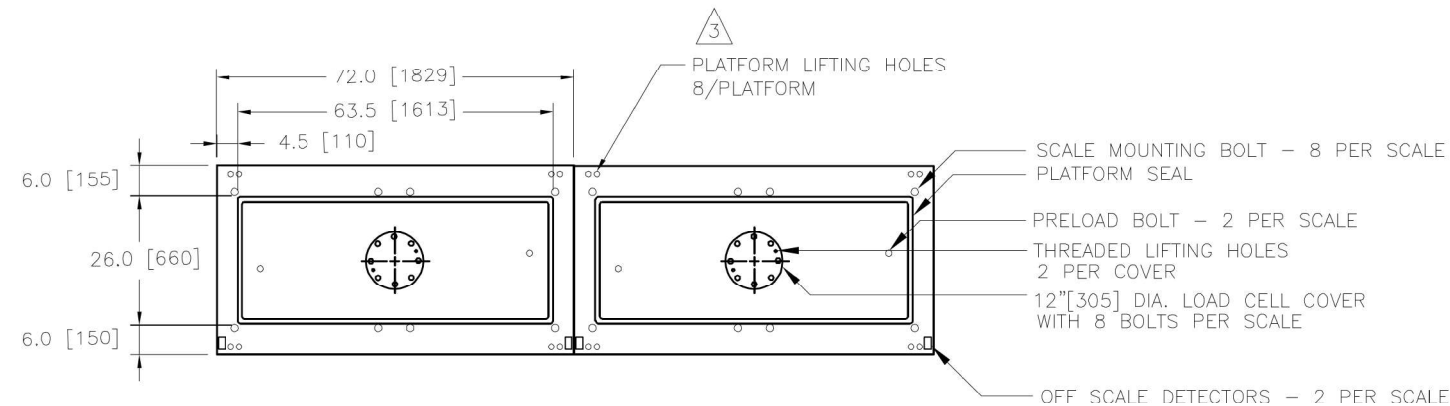
CONFIDENTIAL
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INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA	
DWG. TITLE: INSTALLATION SINGLE LOAD CELL SCALE SCALE FRAME DETAIL	
DWG. No. 10014701	REV.: E
CAD FILE: 10014701_E.DWG	SHEET 1 OF 2

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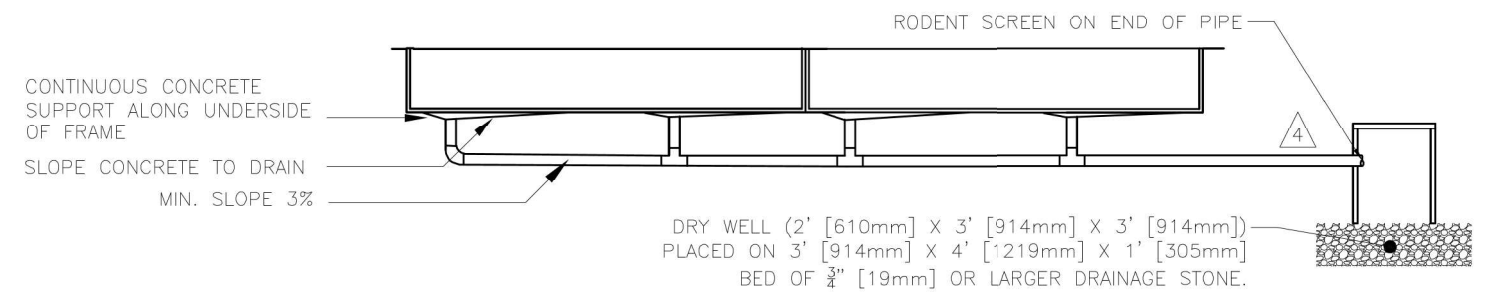
SCALE DETAIL



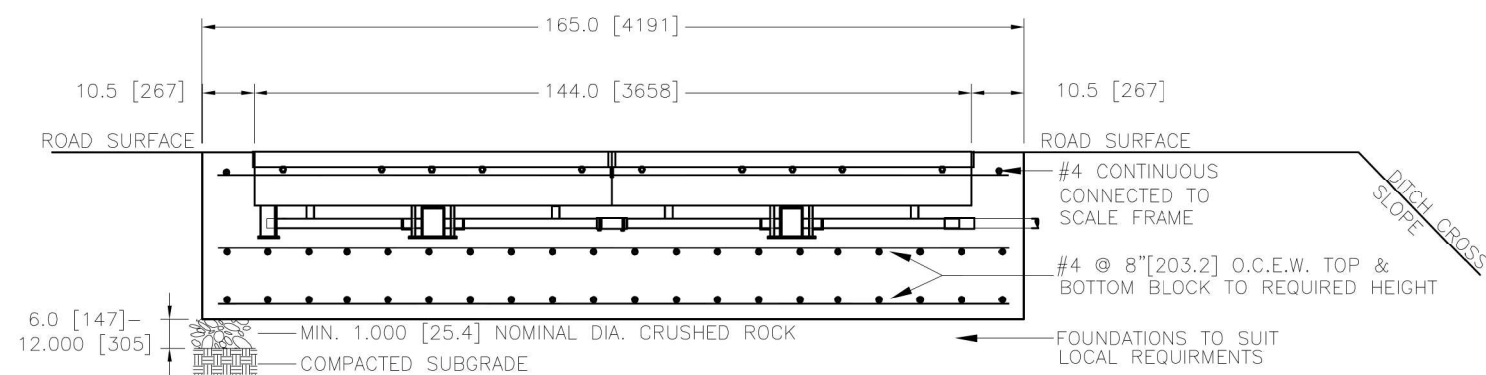
NOTES:

- 1 REINFORCEMENTS AND DOWELS AS SHOWN ARE MINIMUM REQUIREMENTS AND MAY BE SUPERCEDED BY STATE CONSTRUCTION CODES.
- 2 FOR PCC PAVEMENTS INSTALL $\phi 1-1/8$ [28.5mm] X 16" [406mm] EPOXY COATED DOWELS IN $\phi 1-1/4$ [19mm] X 8" [203mm] DEEP HOLE @ 16" [406mm] O.C. SECURE DOWEL INTO HOLE WITH EPOXY. ENSURE DOWELS ARE EXACTLY 90° TO LONGITUDINAL PAVEMENT DIRECTION BOTH VERTICALLY AND HORIZONTALY. GREASE DOWELS.
- 3 SFF 69028801 FOR LIFTING PROCEDURE.
- 4 DRAINS FROM EACH SCALE MAY BE BROUGHT BACK INDIVIDUALLY TO DRY WELL.
- 5 SEE 693001-03 FOR INSTALLATION REQUIREMENTS DETAILS.

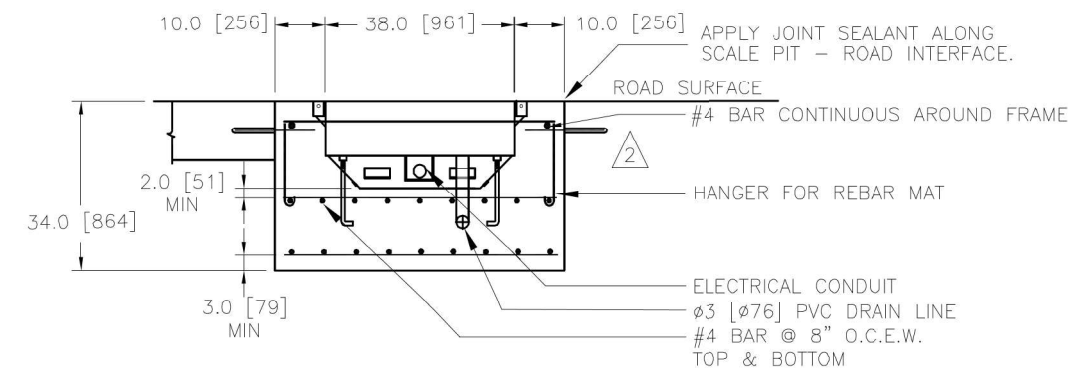
DRAIN DETAIL



**SIDE VIEW
(DRAIN AND J-BARS OMITTED FOR CLARITY)**



END VIEW



REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
A	RELEASED AS REV. A.	B.B.	R.Cz.	R.J.K.	DEC 1/95
B	ADD ANGLE BRACKETS. CHANGE DRAIN TO ABS PIPE.	D.J.B.	DPr	RCz	NOV 7/97
C	CHANGE CABLE CONDUIT FROM 1.5" TO 2". ECO-06	LHo/GDo	GDo	DBz	MAY 23/01
D	ADD PLATFORM LIFTING HOLES, CONCRETE STRENGTH REQUIREMENTS, CHANGE DOWEL. ECO-08	LHo/GDo	BCI	GDo	June 28/05
E	CHANGE DRAIN, UPDATE NOTES - AS PER ECO-13630	MKa/THa	THa	JBu	APR 23/19

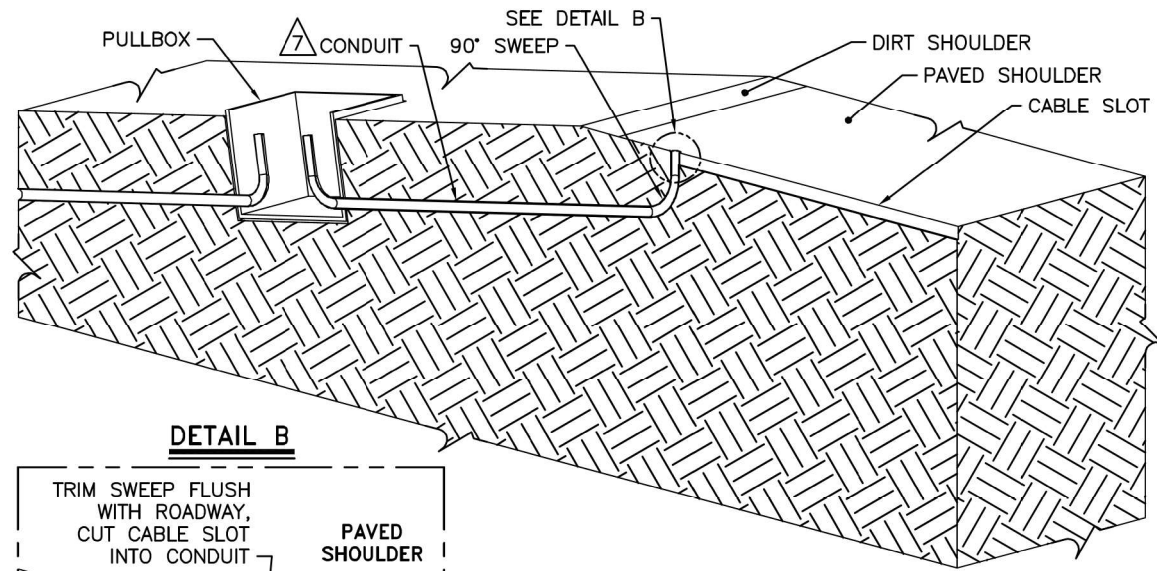
<p>CONFIDENTIAL</p> <p>THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO IRD AND IS HEREBY NOT TO BE DISCLOSED TO OTHERS OR USED FOR PRODUCTION WITHOUT WRITTEN PERMISSION FROM INTERNATIONAL ROAD DYNAMICS INC.</p>		<p>INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA</p>	
	<p>DWG. TITLE:</p> <p style="text-align: center;">INSTALLATION SINGLE LOAD CELL SCALE SCALE FRAME DETAIL</p>		
	<p>NOT TO SCALE</p>	<p>DWG. No. 10014701</p>	<p>REV.: E</p>
	<p>SIZE: B</p> <p>DIMENSIONS IN: INCHES [mm]</p>	<p>CAD FILE: 10014701_E.DWG</p>	<p>SHEET 2 OF 2</p>

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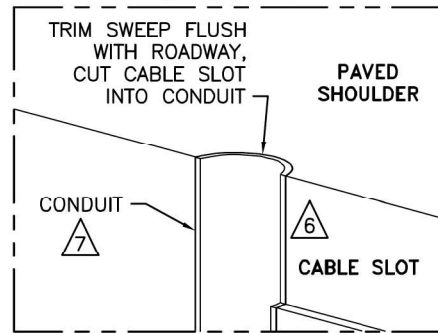
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	DRAWN - AN	REVISED -
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PLOT DATE = 6/6/2022	DATE - 3/25/2022	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	26
CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				

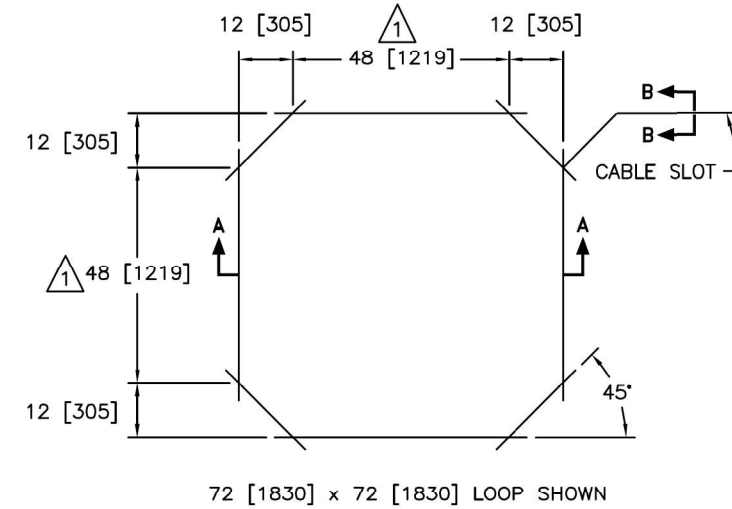
CABLE ROUTING DETAILS



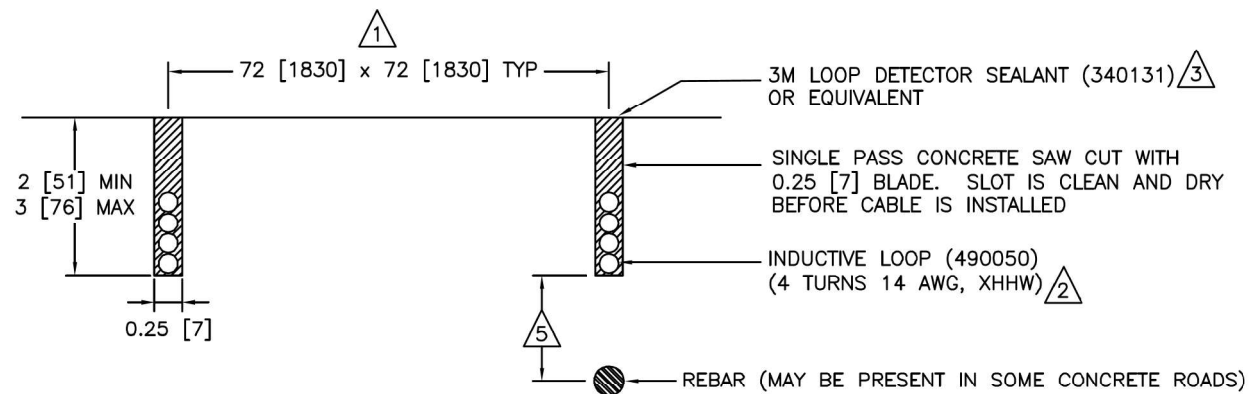
DETAIL B



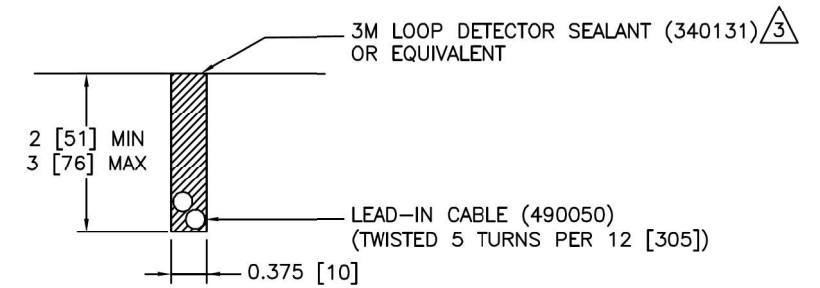
LOOP DIMENSION DETAIL



SECTION A-A



SECTION B-B



NOTES:

- 1 LOOP SIZE AS SPECIFIED ON SITE LAYOUT AND IN ACCORDANCE WITH IRD 3EGR0001.
- 2 NUMBER OF TURNS AS SPECIFIED ON SITE LAYOUT AND IN ACCORDANCE WITH IRD 3EGR0001.
- 3 USE CAULKING GUN 340132 OR 340148.
- 4 LOOP INSTALLATION MANUALS 690279 – PERMANENT OCTAGON LOOPS
- 5 IF THE LOOP IS INSTALLED OVER REBAR, THERE MUST BE A MINIMUM OF 2 [50.8] CONCRETE BELOW AND A MINIMUM OF 1 [25.4] FILL ABOVE THE WIRES.
- 6 CORE DRILL OR CUT NOTCH IN PAVED SHOULDER FOR SWEEP. PLUG SWEEP OPENING, COVER WITH LOOP SEALANT.
- 7 NON-METALLIC FLEX OR PVC CONDUIT.

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
A	INITIAL RELEASE	JGi/GDo	DPr	GDo	DEC 21/05
B	ADD NOTE 5. ECO-01.	JGi/ACo	DPr	DBo	AUG 31/06
C	UPDATE CABLE ROUTING DETAILS AS PER REDLINES - ECO-2008.	JGi/MLo	THa	MLo	FEB 17/11
D	MOVE REBAR IMAGE AND NOTE TO SECTION AA - ECO-4753.	JGi/SpJ	DMu	THa	JUN 7/13
E	ADD NOTE 7, REMOVE SQUARE LOOP; ECO 11011	LPra/THa	LPra	THa	MAR 9/17

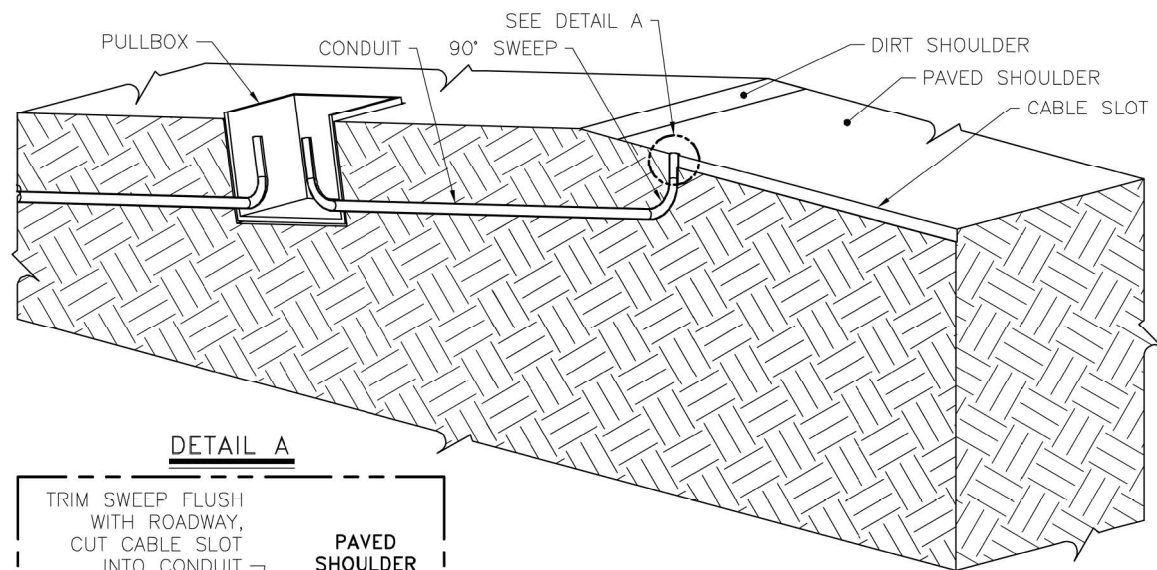
CONFIDENTIAL		INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA	
		DWG. TITLE: INSTALLATION XHHW VEHICLE DETECTION LOOPS	
		NOT TO SCALE	DWG. No. 81300101 REV.: E
		SIZE: B	CAD FILE: 81300101.DWG SHEET 1 OF 1
DIMENSIONS IN: INCHES [mm]		CONTRACT NO. 62P70	

MODEL: Default; FILE NAME: 2110038.18 DDOT D1.FTB; 192-207.WG; 1B EB 1-80 Weigh Station; Station: DCA\Design\Prelim\PlotSheets\Scales\Sheet\Facilities.dwg

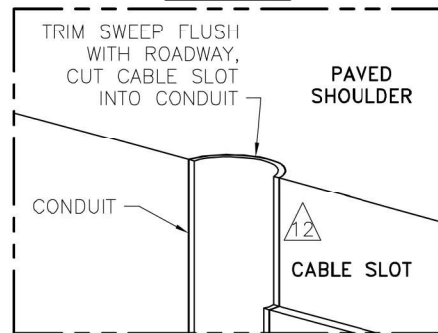
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PLOT DATE = 6/6/2022	CHECKED - JH	REVISED -
	DATE - 3/25/2022	REVISED -

F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P70	

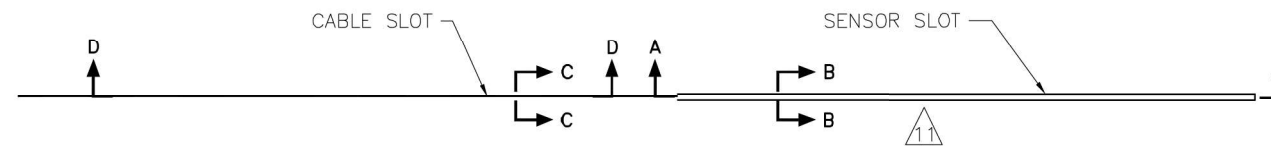
SECTION D-D (CABLE ROUTING DETAILS)



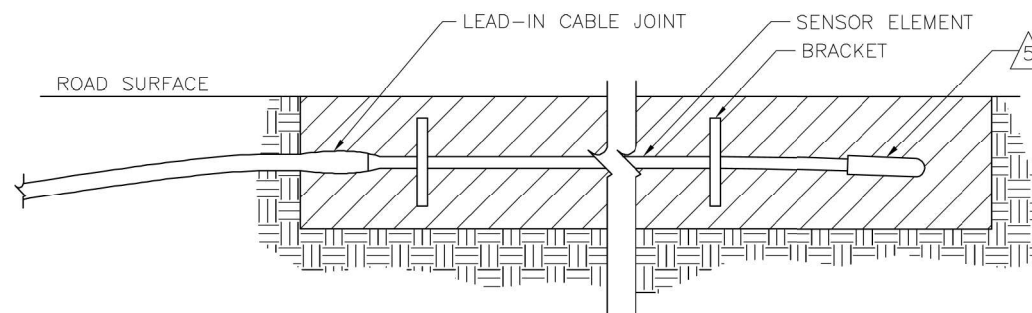
DETAIL A



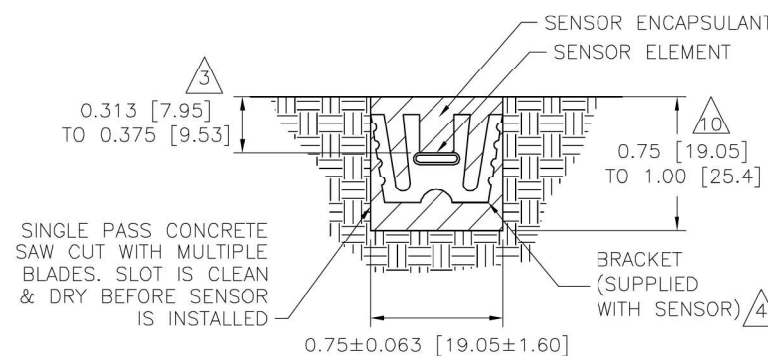
PLAN VIEW - SENSOR INSTALLATION



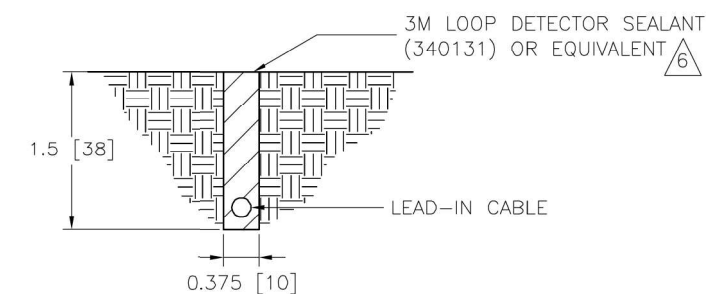
SECTION A-A



SECTION B-B



SECTION C-C



NOTES:

- 1 CRACKS OR SAW CUTS IN THE ROADWAY MUST NOT BE LOCATED CLOSER THAN 18 [450] UPSTREAM AND 18 [450] DOWNSTREAM OF THE PIEZOELECTRIC SENSOR.
- 2 SLOT LENGTH IS 6 [152] LONGER THAN SENSOR.
- 3 USE THE DEPTH GAGE SUPPLIED WITH EACH SENSOR TO SET THE SENSOR AT THE CORRECT DEPTH. CHECK DEPTH ALONG THE ENTIRE LENGTH OF THE SENSOR.
- 4 SPACE THE BRACKETS EVENLY OVER THE LENGTH OF THE SENSOR, USING ALL SUPPLIED 0.75 [19] BRACKETS. EXTRA 1.0 [25] BRACKETS ARE SUPPLIED WHICH ARE USED ONLY IN THE CASE THAT THE SLOT IS CUT TOO WIDE.
- 5 PUT A SLIGHT BEND AT THE END OF THE SENSOR TO LOWER THE HEIGHT OF THE END CAP TO THE SAME HEIGHT AS THE SENSOR TO ENSURE SUFFICIENT DEPTH OF ENCAPSULANT ABOVE THE SENSOR.
- 6 USE CAULKING GUN 340132 OR 340148.
- 7 CHECK THE RESISTANCE OF THE SENSOR BY PLACING A DIGITAL MULTIMETER ACROSS THE CENTER CONDUCTOR OF THE BNC CONNECTOR AND THE OUTER BODY. THE READING SHOULD BE INFINITY.
- 8 CHECK THE VOLTAGE OUTPUT OF THE SENSOR BY MONITORING THE METER WHEN A TRUCK PASSES OVER THE SENSOR INSTALLED IN THE ROADWAY. AS THE TRUCK PASSES OVER THE SENSOR, VOLTAGE DEFLECTION SHOULD BE OBSERVED.
- 9 PIEZO INSTALLATION MANUAL: 690275.
- 10 FOR ADDITIONAL PROTECTION OF THE SENSOR, INSTALLATION DEPTH MAY BE INCREASED WITH CORRESPONDING INCREASE IN CUT DEPTH AND GROUT. DECREASED SIGNAL AMPLITUDE AND QUALITY WILL RESULT.
- 11 LOCATE AND ORIENT SENSOR AND CABLING ACCORDING TO SYSTEM DOCUMENTATION.
- 12 CORE DRILL OR CUT NOTCH IN PAVED SHOULDER FOR SWEEP. PLUG SWEEP OPENING, COVER WITH LOOP SEALANT.

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
A	INITIAL RELEASE	GDo/JGi	DPr	GDo	DEC 21/05
B	CHANGES AS PER ECO-01.	JGi/HFe	MLo	THa	SEP 14/09
C	IN "PLAN VIEW - SENSOR...", REMOVE LANE OUTLINES; ADD NOTE 11; UPDATE CABLE ROUTING DETAILS PER ECO-1852.	JGi/SpJ	Michael Lockerbie	THa	JAN 25/11

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INTERNATIONAL ROAD DYNAMICS INC.
SASKATOON SASKATCHEWAN CANADA

DWG. TITLE: **INSTALLATION BL TYPE PIEZO SENSOR**

NOT TO SCALE

SIZE: B

DIMENSIONS IN: INCHES [mm]

DWG. No. **81300201** REV.: C

CAD FILE: 81300201.DWG SHEET 1 OF 1

MODEL: Default; FILE NAME: 21120338_18_DD0T.D1_PFB_192-207_W0_1B_EB_180_Weigh_Station.DGN; Design: Prelim; Plot: SheetScale; Sheet: 1 of 28

EFK Moen
Civil Engineering Design

USER NAME = ANugent	DESIGNED - AN	REVISED -
	DRAWN - AN	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - JH	REVISED -
PLOT DATE = 6/6/2022	DATE - 3/25/2022	REVISED -

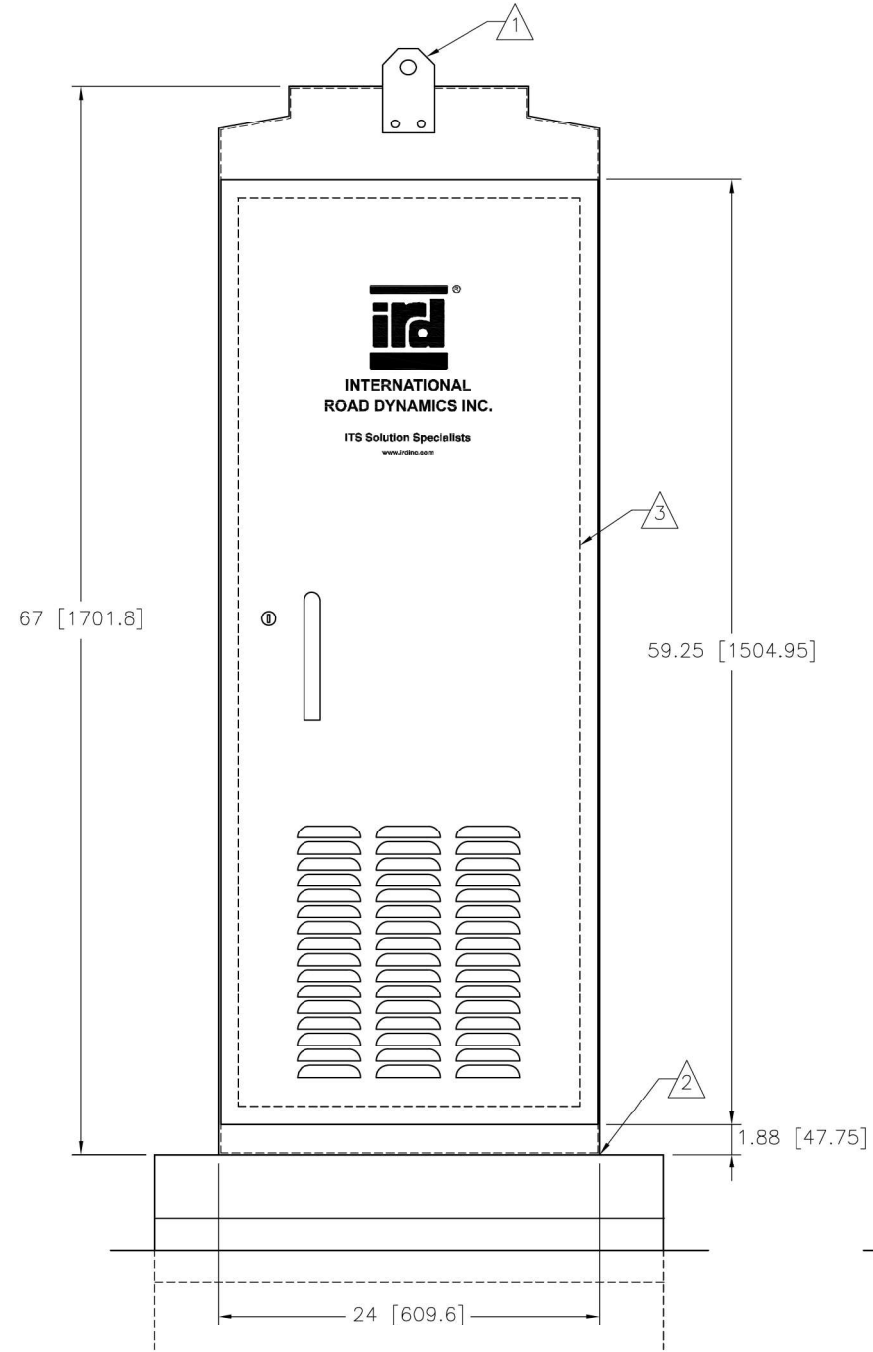
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 80 (I-80) EB WEIGH STATION
WEIGH-IN-MOTION SCALE DETAILS

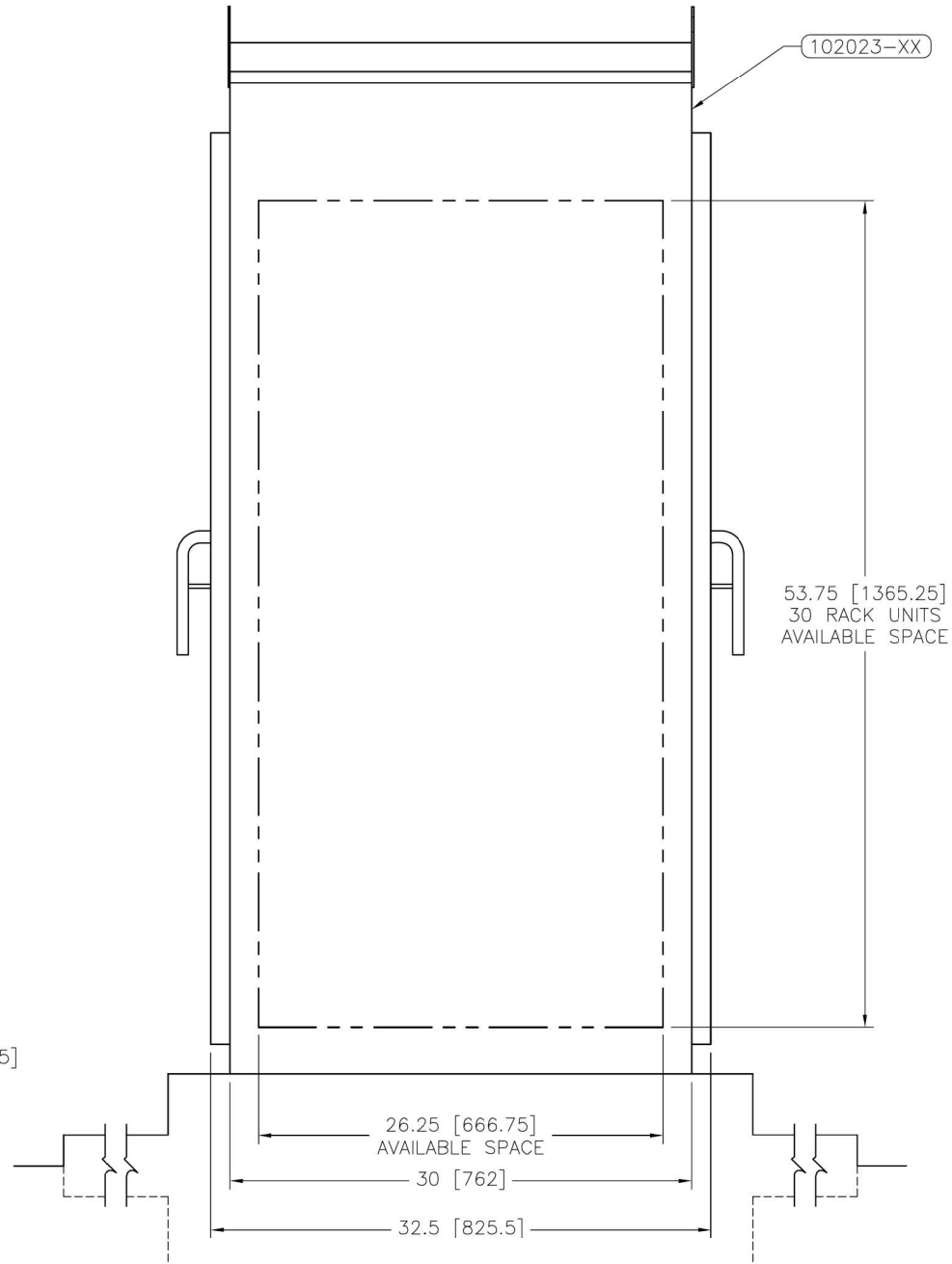
SCALE: SHEET 6 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	28
CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				

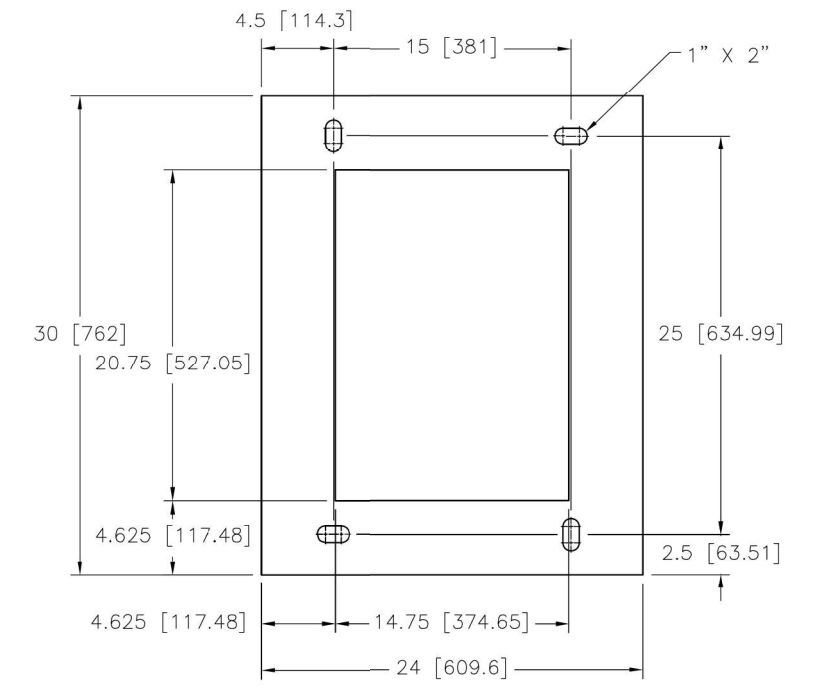
FRONT VIEW



SIDE VIEW



PAD MOUNTING PATTERN



NOTES:

- ① LIFTING EYE. MAY BE UNBOLTED AND ROTATED 180° FOR STORAGE.
- ② SEAL CABINET TO FOUNDATION JOINT WITH SILICONE SEALANT TO PREVENT WATER INTRUSION. LOCATE CABINET ABOVE HIGH WATER LEVEL.
- ③ REMOVABLE 19" EIA RACK.

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
A	INITIAL RELEASE	JGi/DPr	DPr	DBo	Mar 30/06

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INTERNATIONAL ROAD DYNAMICS INC.
SASKATOON SASKATCHEWAN CANADA

DWG. TITLE:
INSTALLATION
334 NEMA 3R SERIES iCBNT
ROADSIDE ELECTRONICS

NOT TO SCALE
SIZE: B
DIMENSIONS IN: INCHES [mm]

DWG. No. **81300902** REV.: A
CAD FILE: 81300902.DWG SHEET 1 OF 1

MODEL: Default FILE NAME: Z:\20038.18 IDOT.D1.PFB.192-07.WG.1B EB 1-80 Weigh Station\DCADesign\Prelim\PlotSheetScaleSheetFabric.dwg



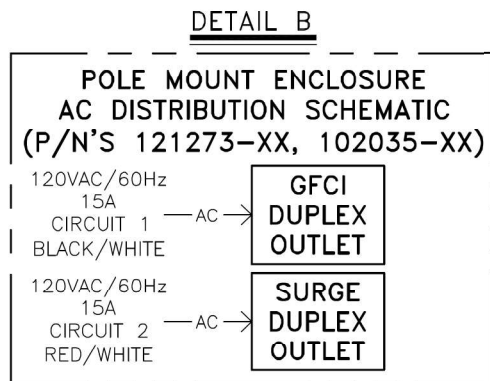
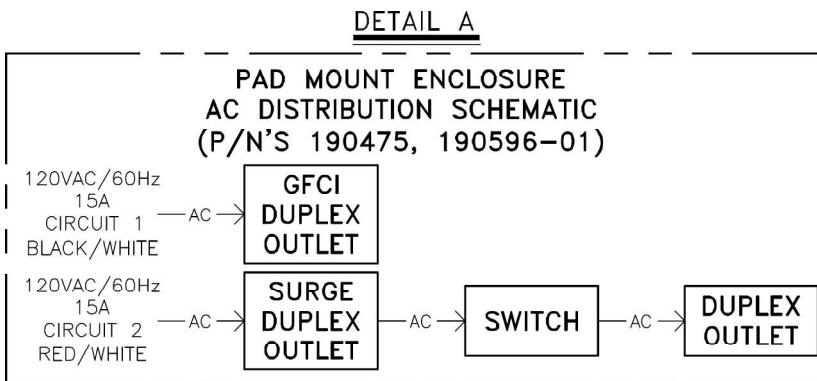
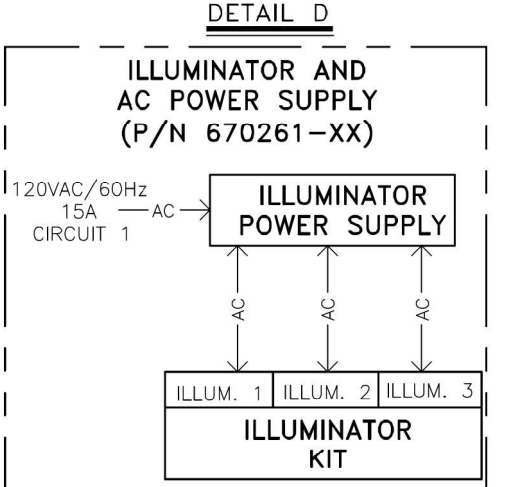
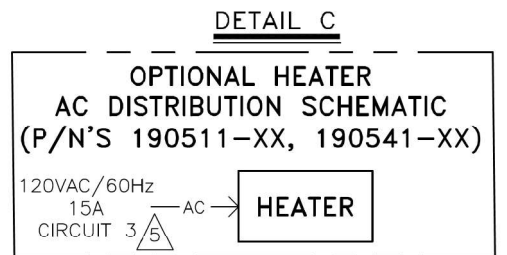
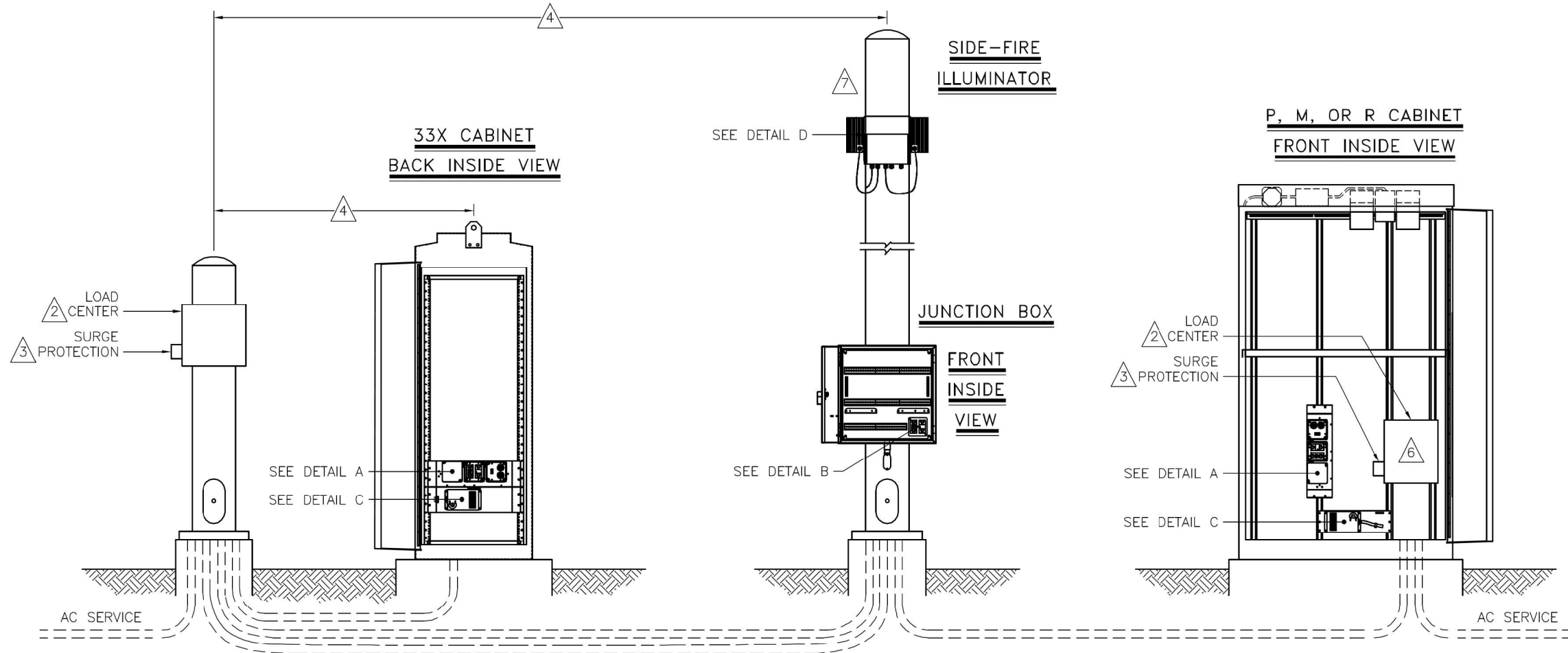
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PLOT SCALE = 100,0000' / in.	DRAWN - AN	REVISED -
PLOT DATE = 6/6/2022	CHECKED - JH	REVISED -
	DATE - 3/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 80 (I-80) EB WEIGH STATION
WEIGH-IN-MOTION SCALE DETAILS

SCALE: SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P70	



NOTES:

- 1 ALL ELECTRICAL DEVICES, GROUNDING, BONDING, WIRING AND MOUNTING MUST MEET THE CANADIAN ELECTRICAL CODE PART I AND/OR NATIONAL ELECTRICAL CODE NFPA70 AND LOCAL ELECTRICAL CODE.
- 2 PROVIDE SUITABLE INDOOR OR OUTDOOR LOAD CENTER. IRD RECOMMENDS FOR CSA USE SQUARE D P/N CQ018M100RB60 OR P/N Q02L70RB, FOR UL USE P/N Q0112M100RB OR P/N Q024L70RB OR EQUIVALENT.
- 3 EQUIPMENT MUST BE PROTECTED WITH AN ANSI/IEEE C62.41 CATEGORY C RATED PROTECTION DEVICE WITH A MINIMUM PEAK CURRENT HANDLING CAPABILITY OF 36KA (8/20μs) INSTALLED AT THE LOAD CENTER OR SUB LOAD CENTER.
- 4 30m MAXIMUM CABLE LENGTH BETWEEN CATEGORY C PROTECTOR AND ENCLOSURE(S).
- 5 CIRCUIT 3 OPTIONAL DEPENDING ON PRESENCE OF HEATER.
- 6 LOAD CENTER MAY BE LOCATED INSIDE ENCLOSURE WHERE SPACE PERMITS.
- 7 REFER TO PRODUCT DOCUMENTATION FOR OEM EQUIPMENT NOT SHOWN.

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
C	CHANGES AS PER ECO-04	SSi/MGa	MLo	BMc	JAN 9/07
D	MODIFY AC DISTRIBUTION PANEL TO MATCH 190475; SECONDARY ENCLOSURE WIRING; NOTES AS PER ECO-11.	JGi/BMc	DPr	RBe	July 24/09
E	ADJUST NOTES 3 & 5 PER REDLINES - ECO-2248.	JGi/CHe	CHe	MLo	MAR 18/11
F	REFER TO REDLINES - ECO-2890	JGi/MLo	MLo	SpJ	AUG. 25/11
G	CHANGED AS PER ECO-6095.	YMa	MGa	YMa	APR 22/14

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INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA

DWG. TITLE: **120VAC CABINET POWER INSTALLATION ROAD SIDE ELECTRONICS**

NOT TO SCALE

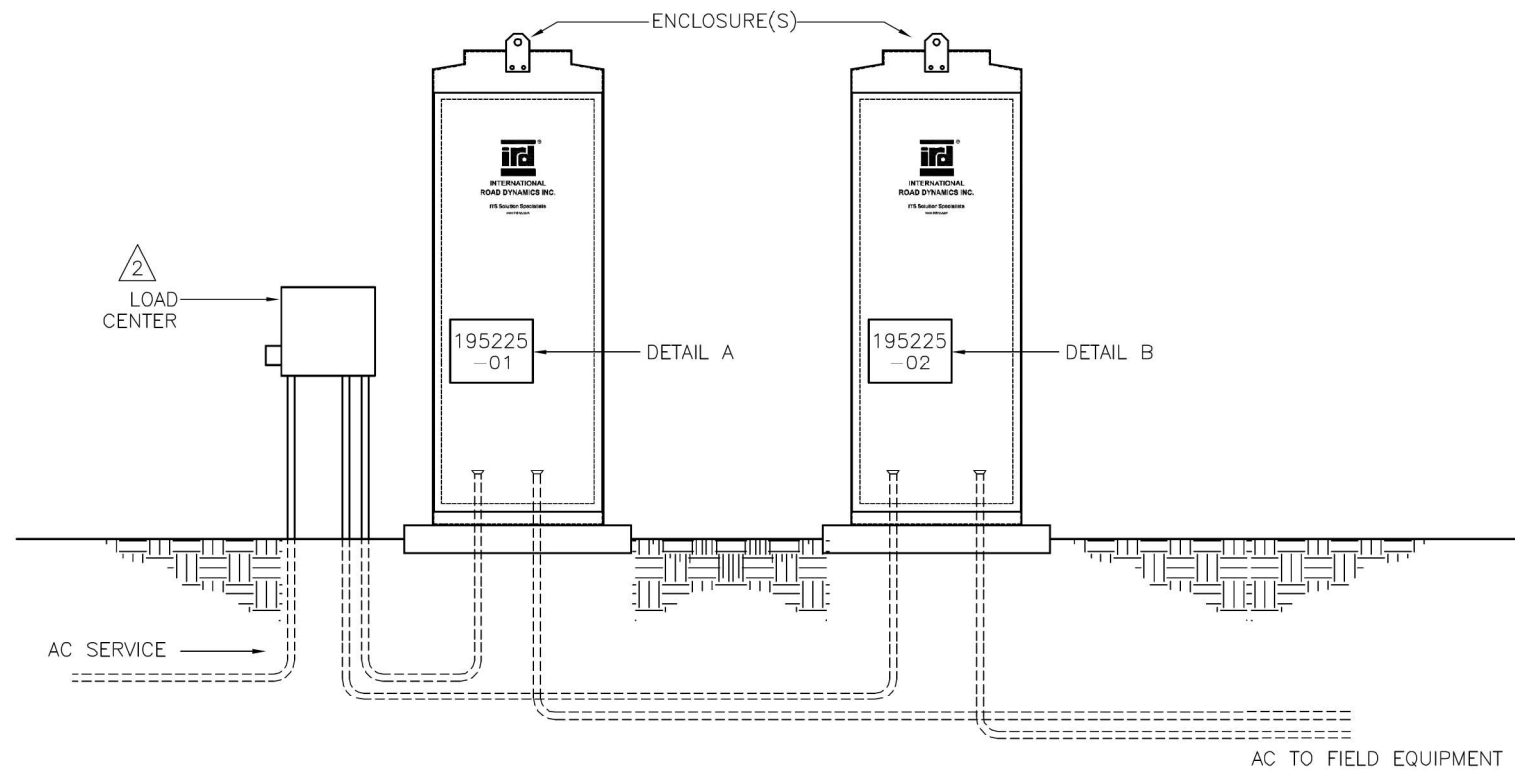
SIZE: B

DIMENSIONS IN: N/A

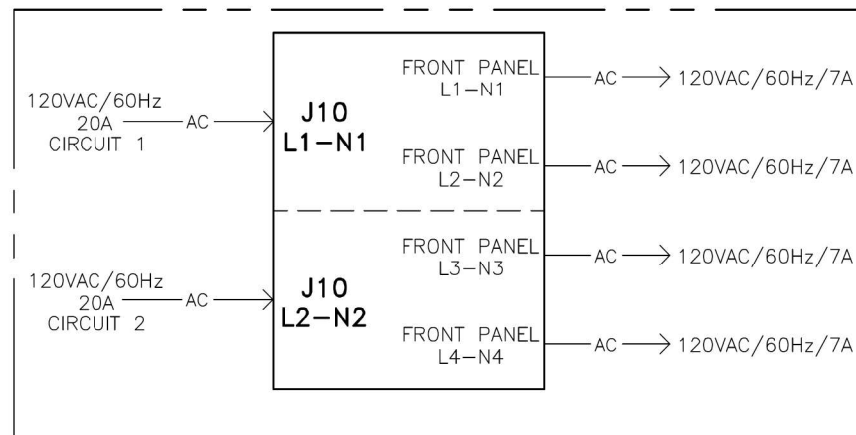
DWG. No. **81300907** REV.: G

CAD FILE: 81300907.DWG SHEET 1 OF 1

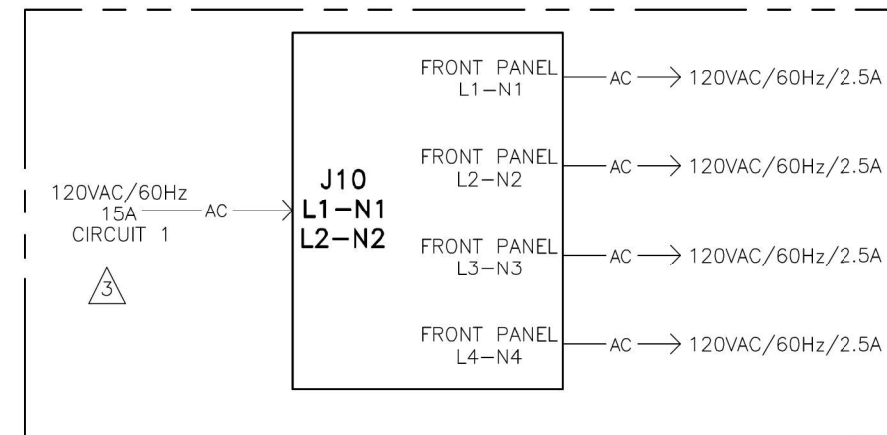
MODEL: D:\efk\h... FILE NAME: 2110038_18 IDOT D1 PFB 192-07 W.O. 18 EB 1-80 Weigh Station Design Prelim\Borheers\ScaleSheet\FaceSheet.dwg



DETAIL A



DETAIL B



NOTES:

- 1 ALL ELECTRICAL DEVICES, GROUNDING, BONDING, WIRING AND MOUNTING MUST MEET THE CANADIAN ELECTRICAL CODE PART I AND/OR NATIONAL ELECTRICAL CODE NFPA70 AND LOCAL ELECTRICAL CODE.
- 2 FOR CABINET AND LOAD CENTER POWER INSTALLATION DETAIL SEE IRD DWG# 81300907
- 3 CONNECT L1 TO L2 AND N1 TO N2.

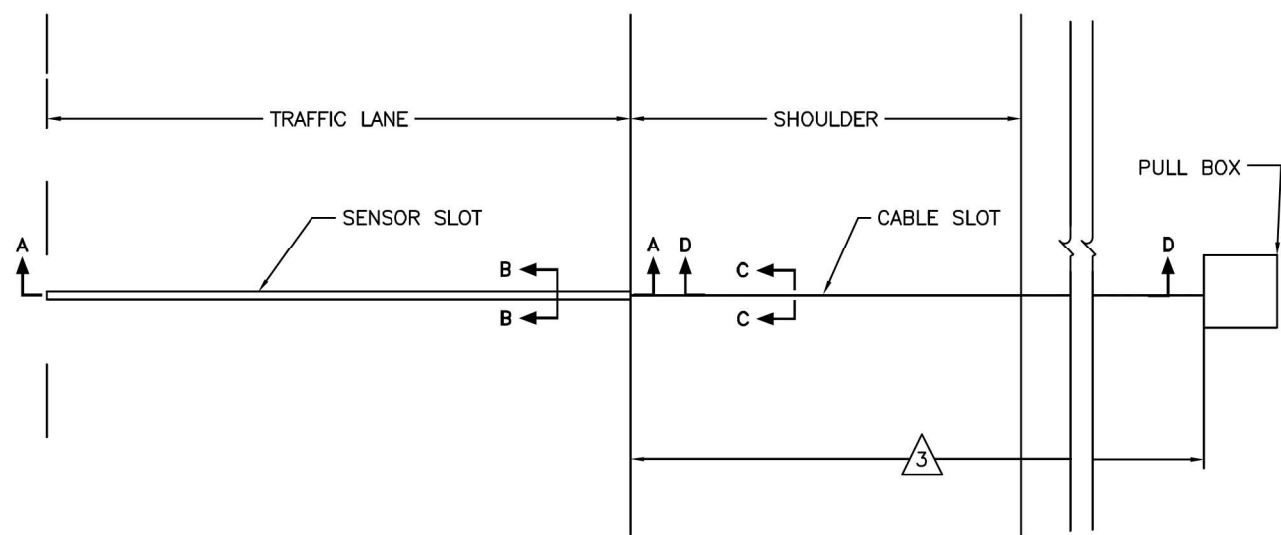
REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
A	PREVIOUSLY PRE-RELEASED AS REV 1	SSi/BMc	BMc	MLo	OCT 10/06
B	CHANGE PN 195195-01 TO 195225-01; CHANGE PN 195195-02 TO 195225-02. ECO-05.	JGi/MLo	DFI	MLo	FEB 9/07
C	CHANGES AS PER ECO-06.	SSi/BMc	MLo	MGa	OCT 25/07

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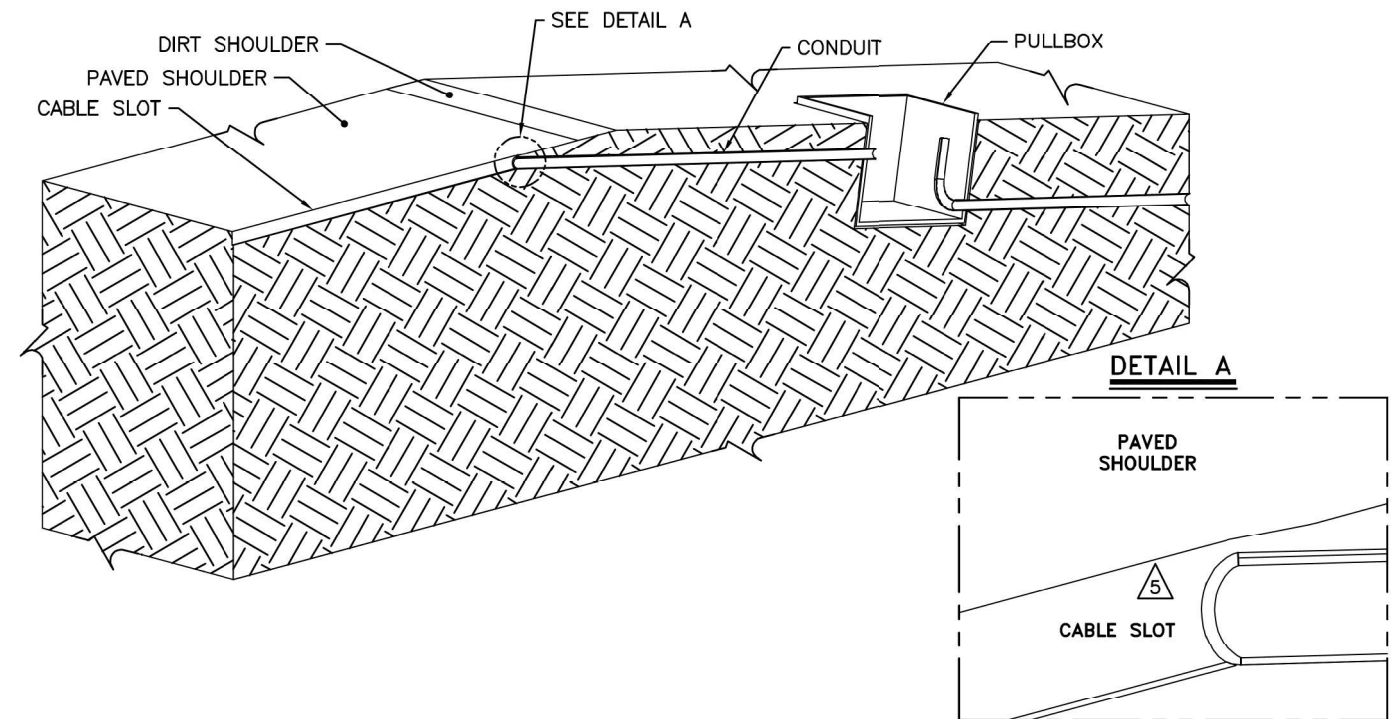
	INTERNATIONAL ROAD DYNAMICS INC.	
	SASKATOON SASKATCHEWAN CANADA	
DWG. TITLE: 120VAC OUTPUT PNL POWER INSTALLATION ROAD SIDE ELECTRONICS		
NOT TO SCALE	DWG. No. 81300908	REV.: C
SIZE: B	CAD FILE: 81300908.DWG	
DIMENSIONS IN: N/A	SHEET 1 OF 1	

MODEL: D:\efk\h...
 FILE NAME: 2110038.18.DDOT.D1.PFB.192-07.WO.1B.EB.180.Weigh.Station.DCA\Design\Print\PlotSheetScaleSheetFabric.dwg

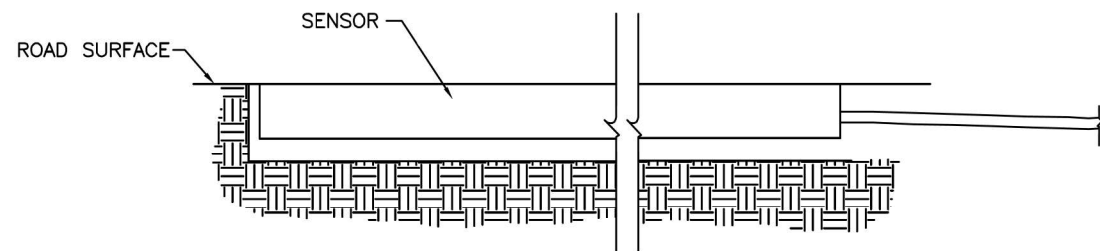
PLAN VIEW - SENSOR INSTALLATION



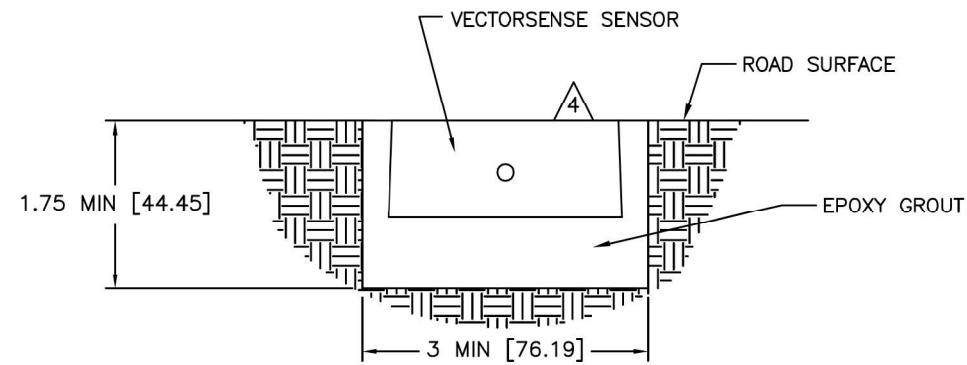
SECTION D-D (CABLE ROUTING DETAILS)



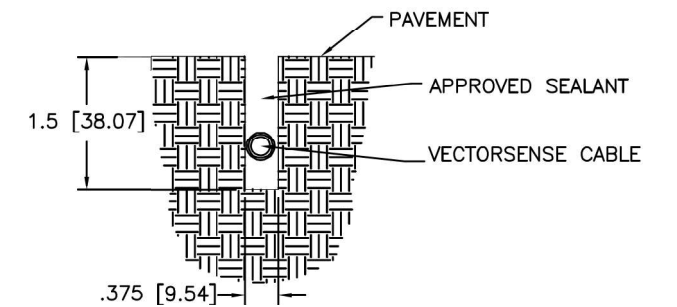
SECTION A-A



SECTION B-B



SECTION C-C



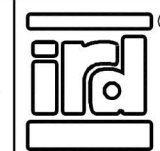
NOTES:

- 1 CRACKS IN THE ROADWAY MUST NOT BE LOCATED CLOSER THAN 18 [450] UPSTREAM AND 18 [450] DOWNSTREAM OF THE SENSOR.
- 2 SLOT LENGTH IS 2 [51] LONGER THAN SENSOR.
- 3 16' [6.1m] MAXIMUM DISTANCE BETWEEN SENSOR AND ELECTRONICS.
- 4 SENSOR GROUT MUST BE GROUND FLUSH WITH ROAD SURFACE AFTER GROUT HAS CURED.
- 5 CHIP END OF SAW CUT CABLE SLOT TO CREATE SUFFICIENT OPENING FOR CABLE ENTRY INTO CONDUIT

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
A	INITIAL RELEASE ECO-12046	LPr	LPr	THa	OCT 25/17

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NOT TO SCALE

SIZE: B

DIMENSIONS IN: INCHES [mm]

INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA

DWG. TITLE: **INSTALLATION DETAIL VECTORSENSE**

DWG. No. **81304402**

CAD FILE: 81304402.DWG

REV.: A

SHEET 1 OF 1

MODEL: D:\efk\18 IDOT D1 P7B 192-07 W0 1B EB 180 Weigh Station\DCADesign\Plan\PlotSheets\Scales\Sheet13.ech.dwg

EFK Moen
Civil Engineering Design

USER NAME = ANugent	DESIGNED - AN	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - AN	REVISED -
PLOT DATE = 6/6/2022	CHECKED - JH	REVISED -
	DATE - 3/25/2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

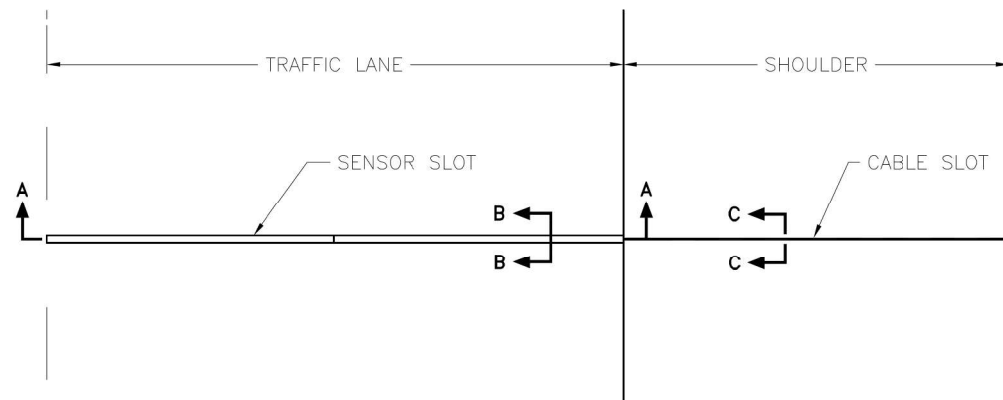
FAI 80 (I-80) EB WEIGH STATION WEIGH-IN-MOTION SCALE DETAILS

SCALE: SHEET 11 OF 14 SHEETS STA. TO STA.

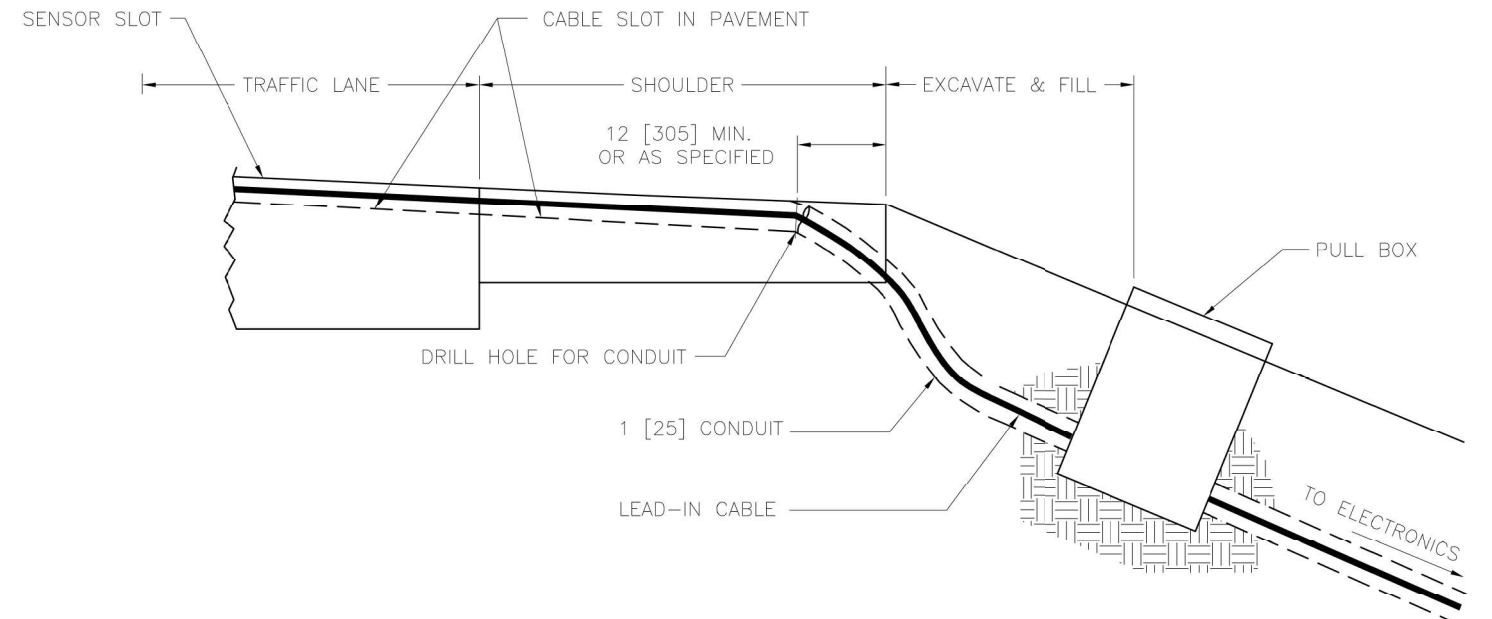
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	33
CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				

INSTALLATION DETAILS – 1.75m KISTLER SENSOR

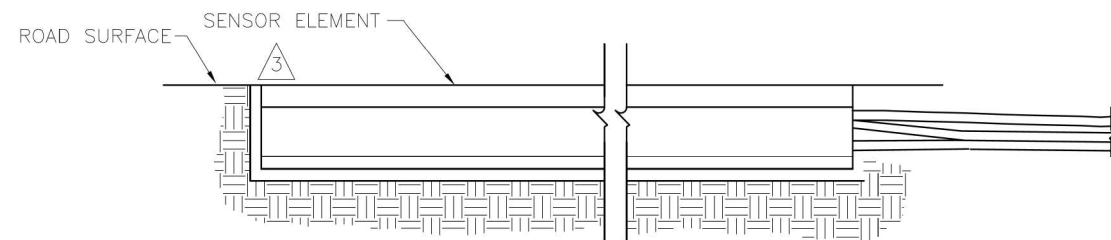
PLAN VIEW – SENSOR INSTALLATION



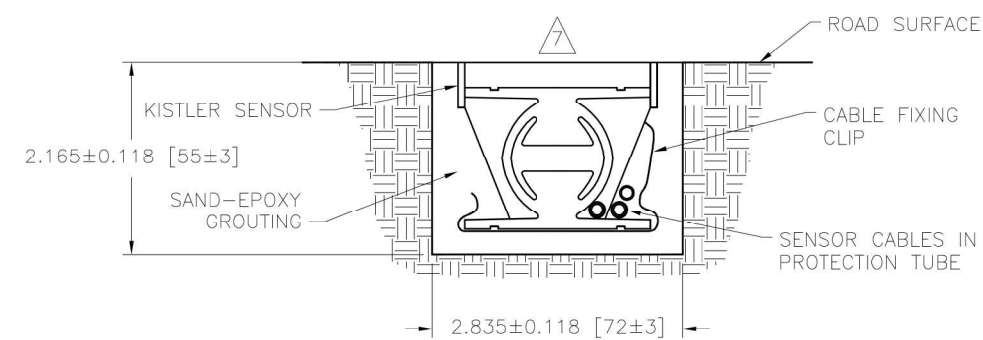
CABLE ROUTING DETAILS



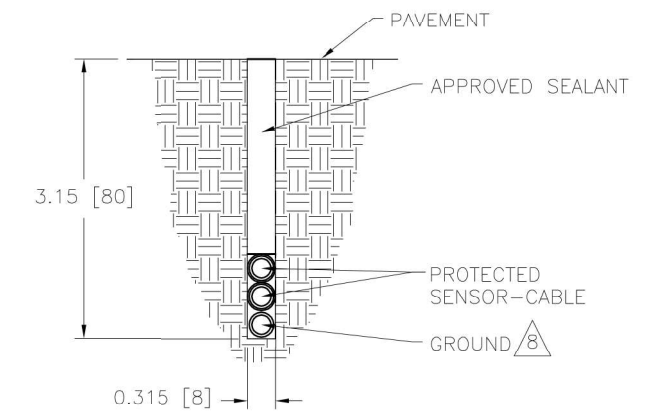
SECTION A-A



SECTION B-B



SECTION C-C

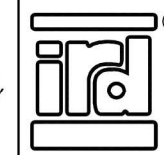


NOTES:

- 1 CRACKS OR SAW CUTS IN THE ROADWAY MUST NOT BE LOCATED CLOSER THAN 18 [450] UPSTREAM AND 18 [450] DOWNSTREAM OF THE KISTLER SENSOR.
- 2 SLOT LENGTH IS 6 [152] LONGER THAN SENSOR.
- 3 SET SENSOR FLUSH WITH OR SLIGHTLY HIGHER THAN ROAD SURFACE USING INCLUDED LEVELING BEAMS.
- 4 CHECK THE RESISTANCE OF THE SENSOR BY PLACING A DIGITAL MULTIMETER ACROSS THE CENTER CONDUCTOR OF THE BNC CONNECTOR AND THE OUTER BODY. THE READING SHOULD BE INFINITY.
- 5 CHECK THE VOLTAGE OUTPUT OF THE SENSOR BY MONITORING THE METER WHEN A TRUCK PASSES OVER THE SENSOR INSTALLED IN THE ROADWAY. AS THE TRUCK PASSES OVER THE SENSOR, VOLTAGE DEFLECTION SHOULD BE OBSERVED.
- 6 KISTLER INSTALLATION MANUAL: 690359.
- 7 SENSOR MUST BE GROUND FLUSH WITH ROAD SURFACE AFTER GROUT HAS CURED.
- 8 IF SIGNIFICANT NOISE SOURCES ARE IDENTIFIED, OVERHEAD POWER SOURCES ETC., CONNECT OPTIONAL GROUND WIRE AS PER 690359 SECTION 4.5. OTHER END OF GROUND WIRE CONNECTS TO CABINET GROUND BUSBAR.

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
1	PRELIMINARY RELEASE.	YMa/TDe			

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NOT TO SCALE
SIZE: B
DIMENSIONS IN: FEET [m]

INTERNATIONAL ROAD DYNAMICS INC.
SASKATOON SASKATCHEWAN CANADA

DWG. TITLE: **SITE LAYOUT QUARTZ SENSOR WIM ILLINOIS**

DWG. No. **MILWIM07** REV.: 1
CAD FILE: **MILWIM07.DWG** SHEET **3** OF **4**

MODEL: Default
FILE NAME: 2110038_18 IDOT D1.PFB 192-07.WG 1B EB 1-80 Weigh Station Design Prelim/PlotSheetScaleSheetScale.dwg

EFK Moen
Civil Engineering Design

USER NAME = ANugent	DESIGNED - AN	REVISED -
	DRAWN - AN	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - JH	REVISED -
PLOT DATE = 6/6/2022	DATE - 3/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

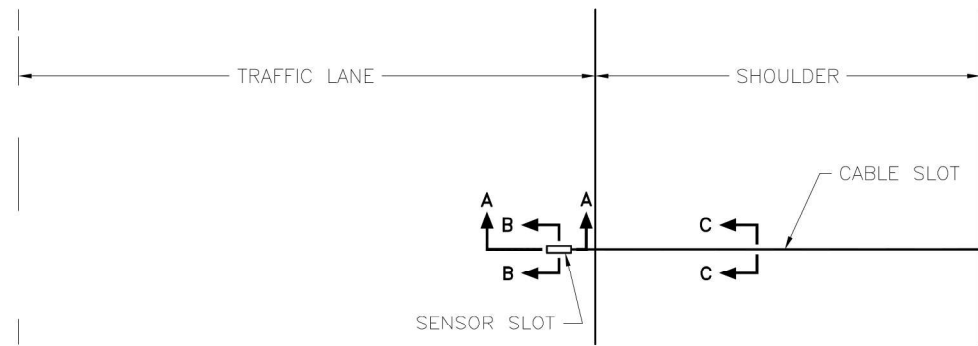
FAI 80 (I-80) EB WEIGH STATION
WEIGH-IN-MOTION SCALE DETAILS

SCALE: SHEET 13 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	35
CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				

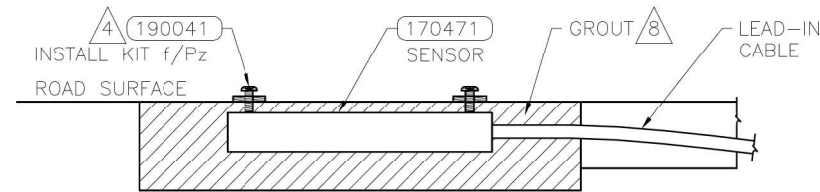
INSTALLATION DETAILS – IN ROAD TEMPERATURE SENSOR

PLAN VIEW – SENSOR INSTALLATION

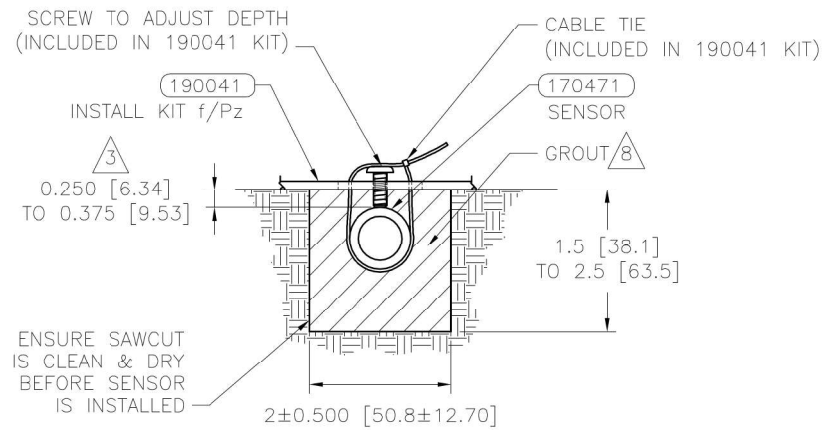


SENSOR P/N 170471

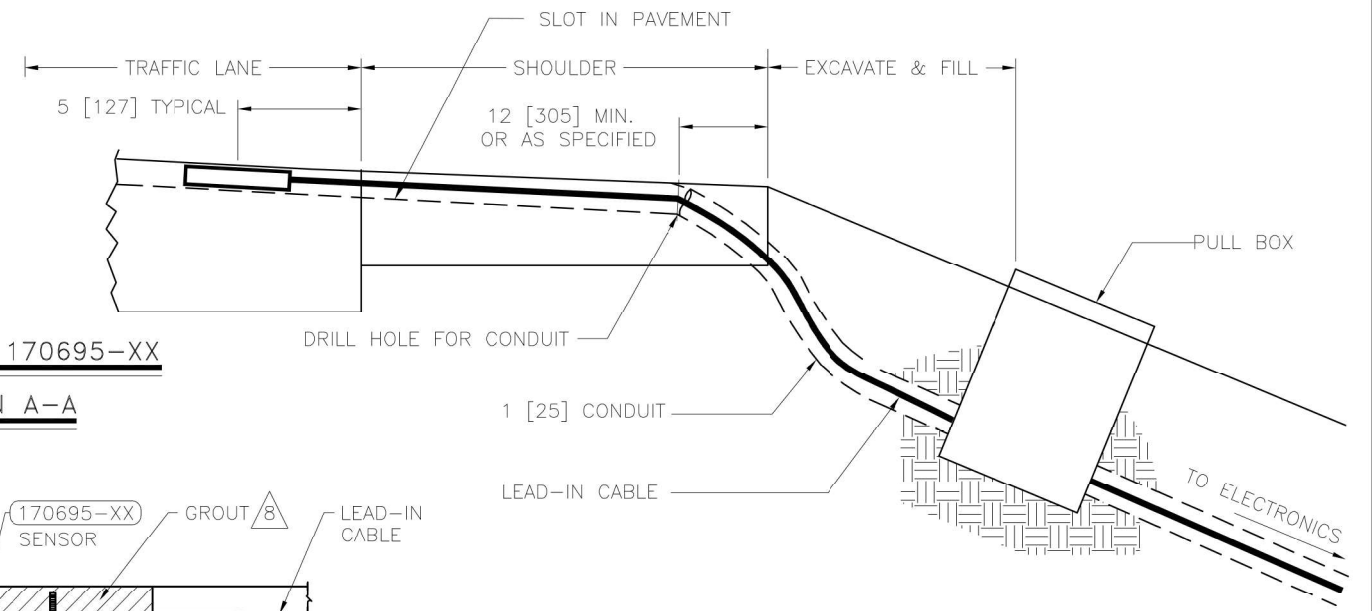
SECTION A-A



SECTION B-B

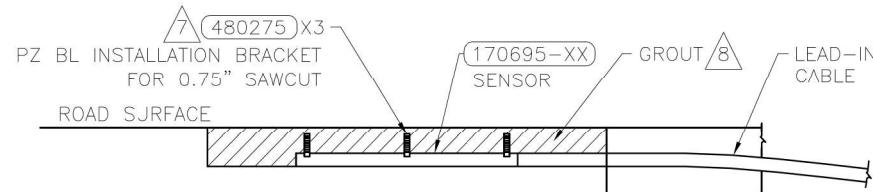


CABLE ROUTING DETAILS

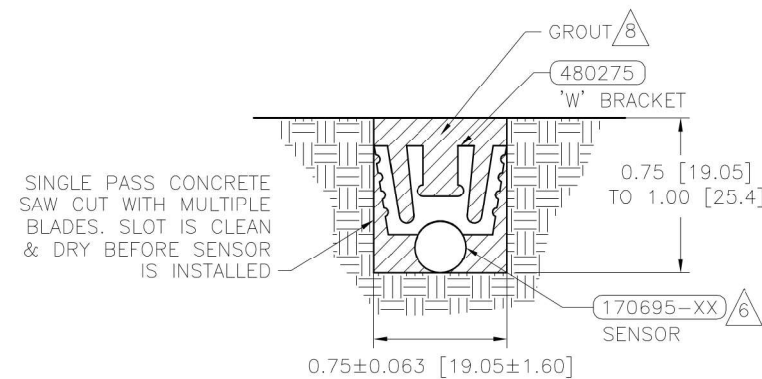


SENSOR P/N 170695-XX

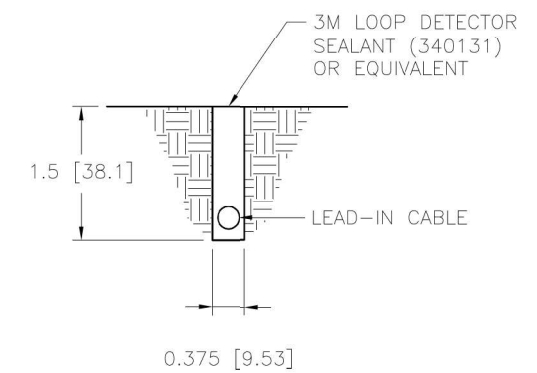
SECTION A-A



SECTION B-B



SECTION C-C

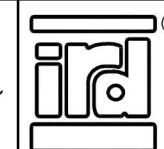


NOTES:

- 1 CRACKS OR SAW CUTS IN THE ROADWAY MUST NOT BE LOCATED CLOSER THAN 18" [450MM] UPSTREAM AND 18 [450MM] DOWNSTREAM OF THE TEMPERATURE SENSOR.
- 2 SLOT LENGTH IS 4" [102MM] LONGER THAN SENSOR.
- 3 SET THE SENSOR AT THE CORRECT DEPTH.
- 4 PLACE A BRACKET AT EACH END OF THE SENSOR,
- 5 LOCATE SENSOR IN SAME PAVEMENT AND WITHIN 6' [2M] OF THE TEMPERATURE COMPENSATED DEVICE. AVOID PLACING IN WHEEL PATH.
- 6 WEDGE SENSOR AGAINST FLOOR OF CUT UNDER "W" CLIP (P/N 480275).
- 7 SPACE THREE BRACKETS (P/N 480275) EVENLY OVER THE LENGTH OF THE SENSOR,
- 8 USE GROUT OF SAME TYPE AS THAT OF SENSOR BEING COMPENSATED:
PIEZO – USE AS475 (340028) OR PU200 (IT2000285)
KISTLER – USE KISTLER GROUT (340139) OR FLEXLITH (340082)

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
1	PRELIMINARY RELEASE.	YMa/TDe			

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NOT TO SCALE
SIZE: B
DIMENSIONS IN: FEET [m]

INTERNATIONAL ROAD DYNAMICS INC.
SASKATOON SASKATCHEWAN CANADA

DWG. TITLE: **SITE LAYOUT QUARTZ SENSOR WIM ILLINOIS**

DWG. No. **MILWIM07** REV.: 1
CAD FILE: MILWIM07.DWG SHEET 4 OF 4

MODEL: Default FILE NAME: 2110038.18 DDOT D1 PFB 192-07 W0. 1B EB 180 Weigh Station Design Prelim/SheetScale/SheetScale.dwg

EFK Moen
Civil Engineering Design

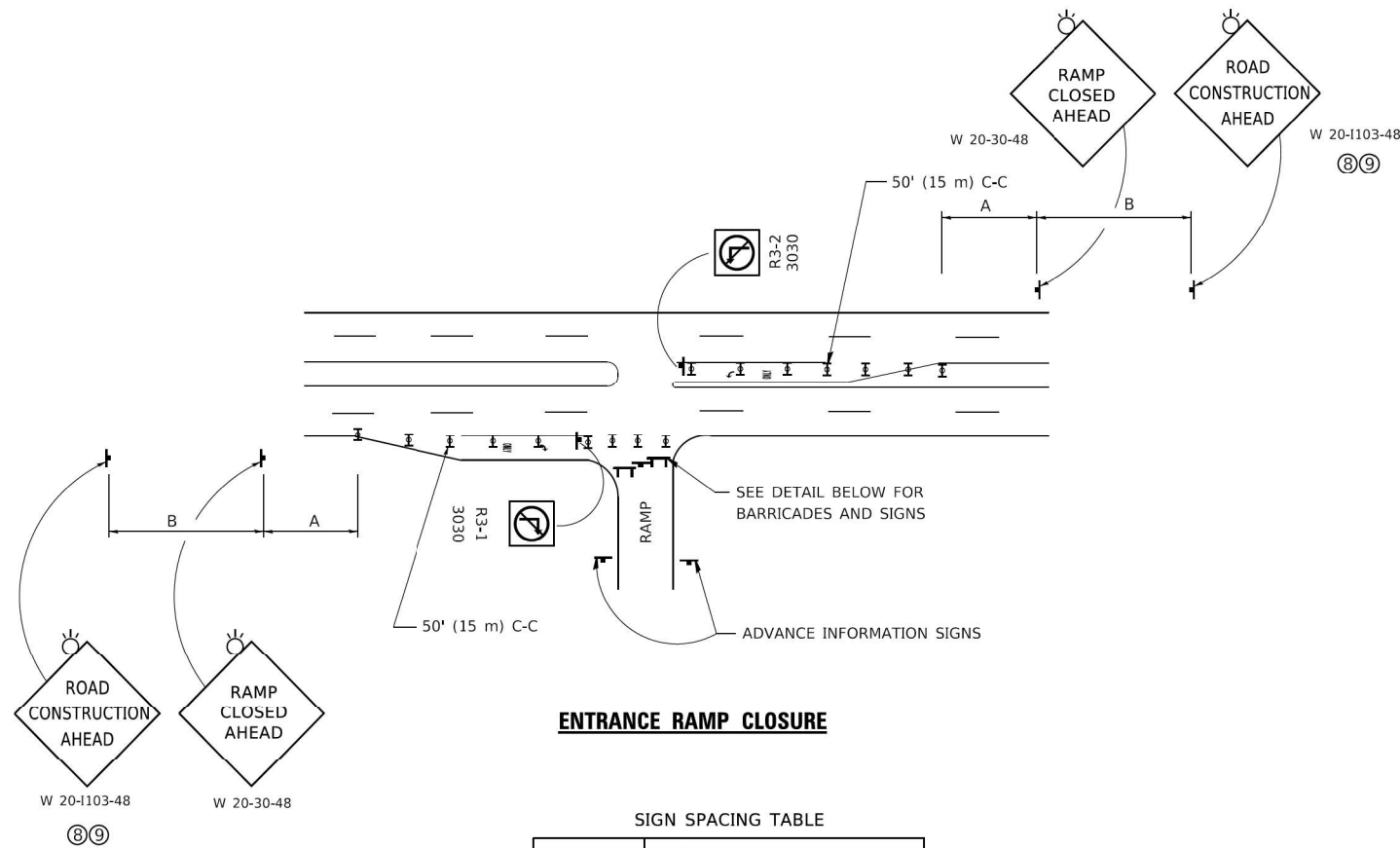
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PLOT SCALE = 100,0000' / in.	DRAWN - AN	REVISED -
PLOT DATE = 6/6/2022	CHECKED - JH	REVISED -
	DATE - 3/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 80 (I-80) EB WEIGH STATION
WEIGH-IN-MOTION SCALE DETAILS

SCALE: SHEET 14 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	36
CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				

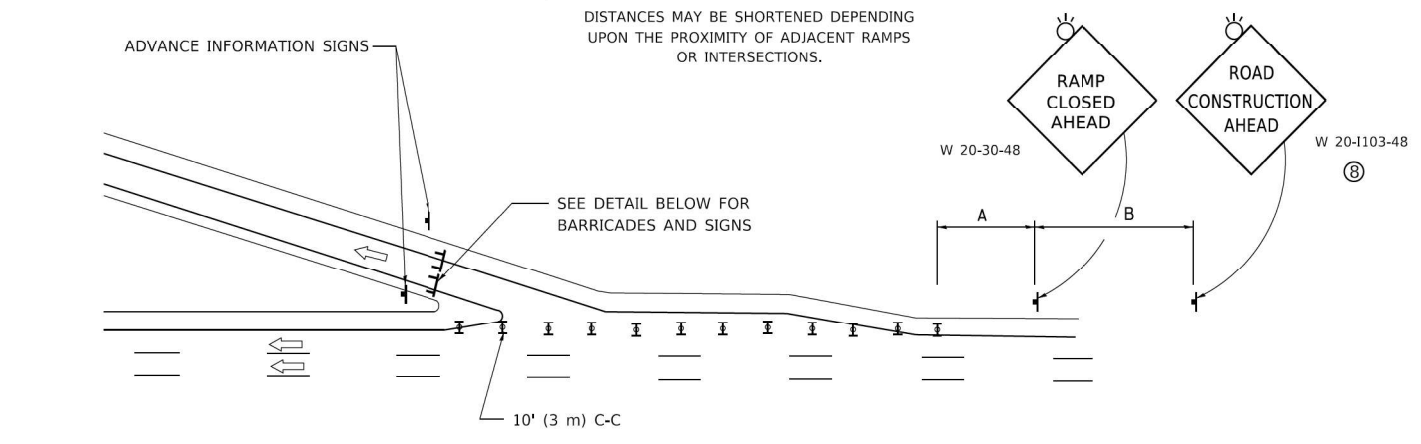


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

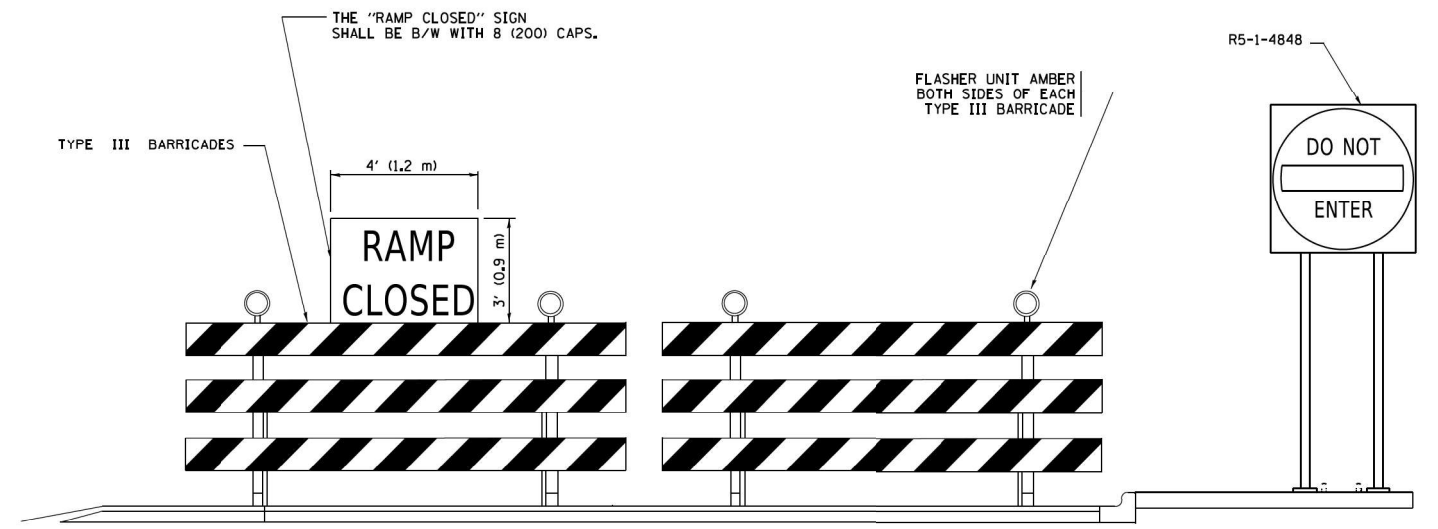
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

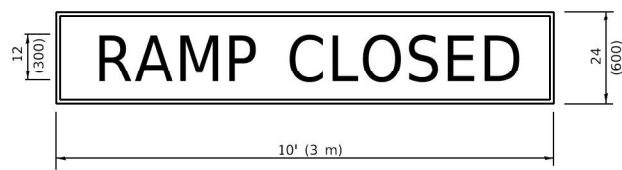
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



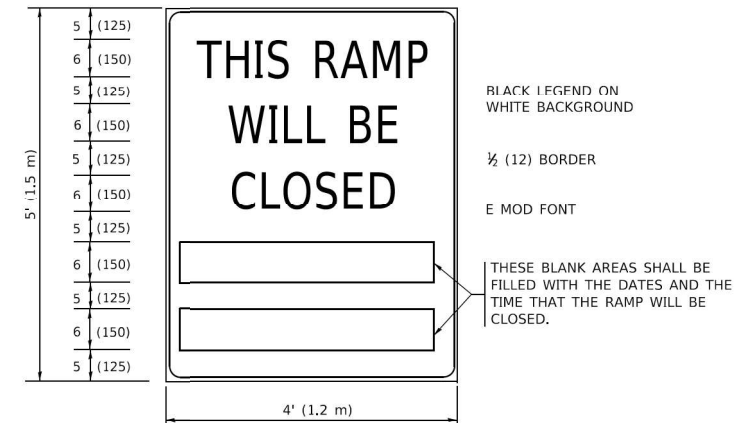
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND
1/2 (12) BORDER
E MOD FONT
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.
THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

NODE: Default
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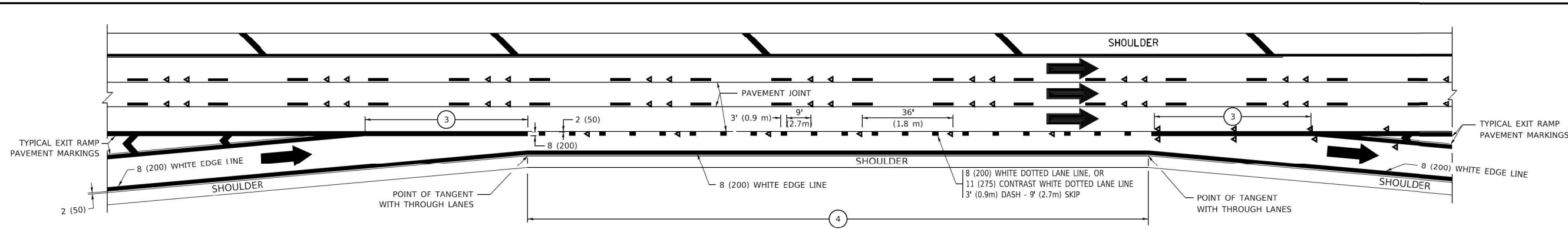
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	DRAWN -	REVISED - S.P.B._12-09
PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - M.D._06-13
PLOT DATE = 3/4/2019	DATE - 02-83	REVISED - M.D._01-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

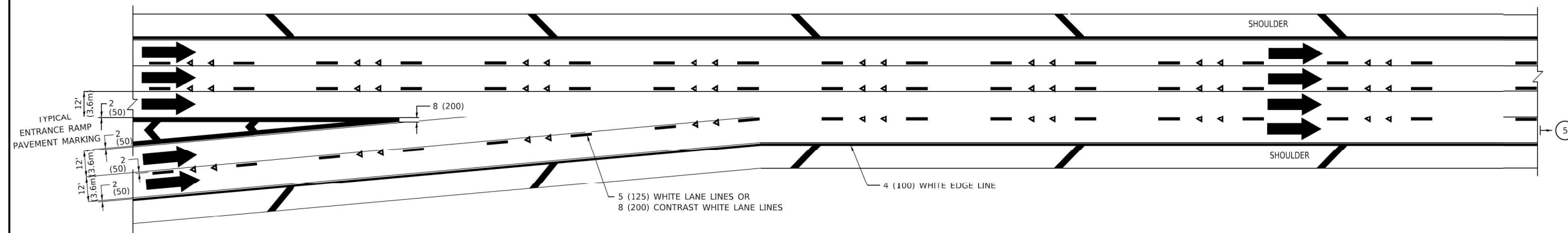
**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

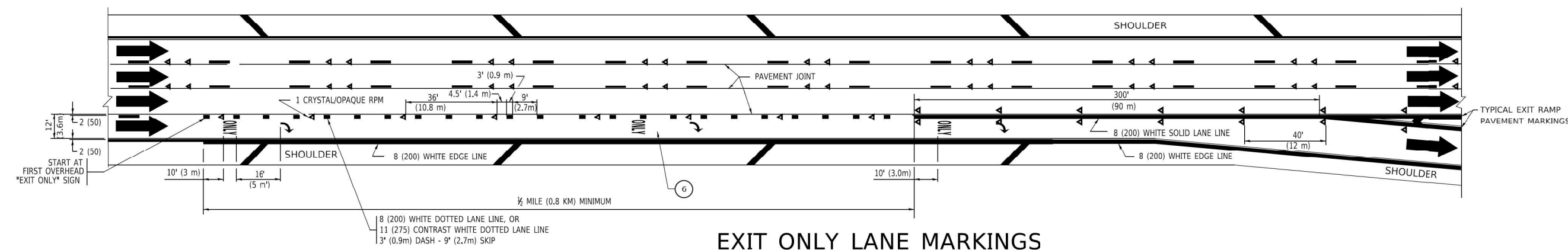
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	37
TC-08			CONTRACT NO. 62P70	
		ILLINOIS FED. AID PROJECT		



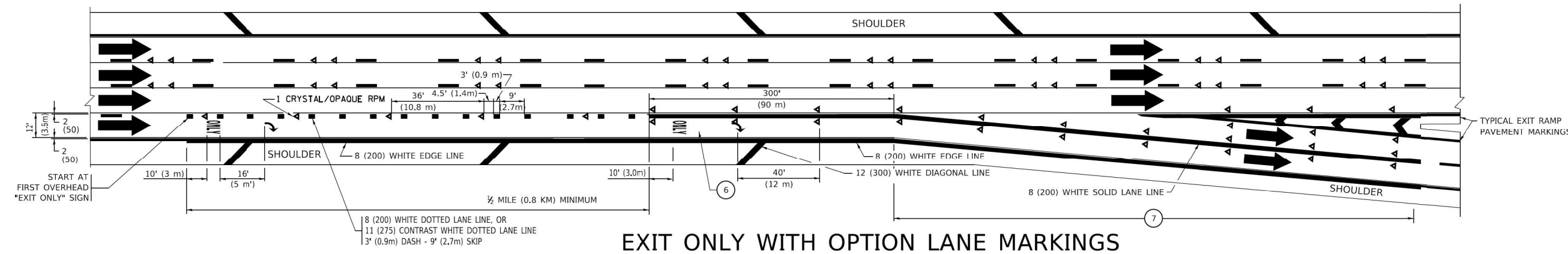
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED..
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

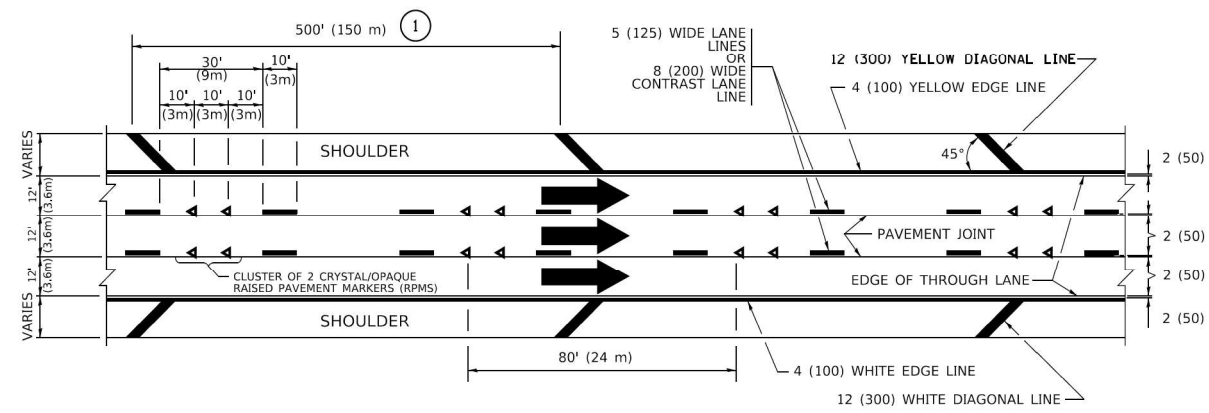
MODEL: Default
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USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50,00000' / in.	CHECKED -	REVISED - S.P.B. 01-10
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			
SCALE: NONE	SHEET 1	OF 2 SHEETS	STA. TO STA.

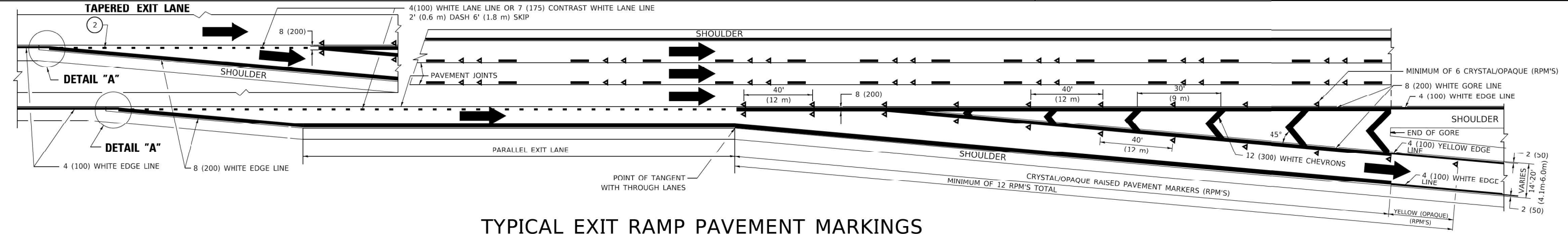
F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 38
TC-12		CONTRACT NO. 62P70		
ILLINOIS FED. AID PROJECT				



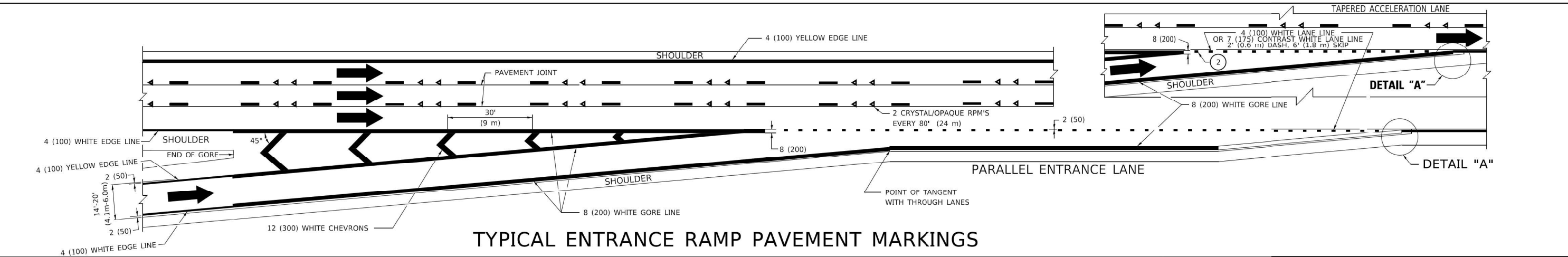
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

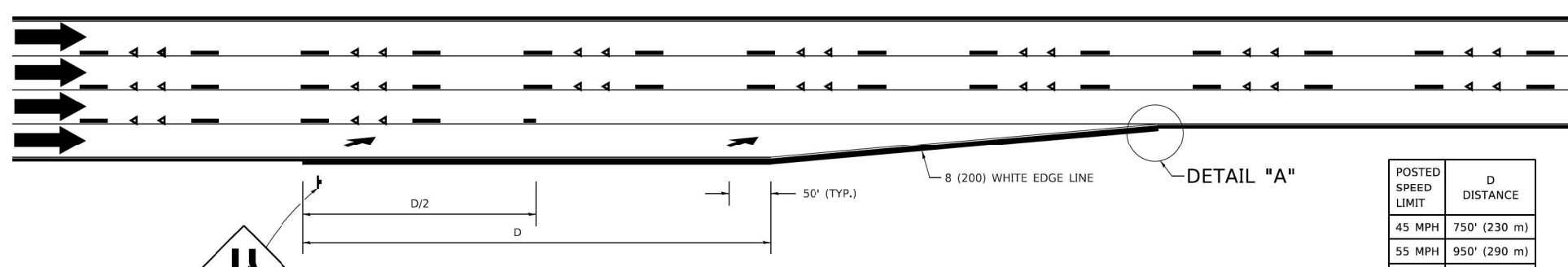
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

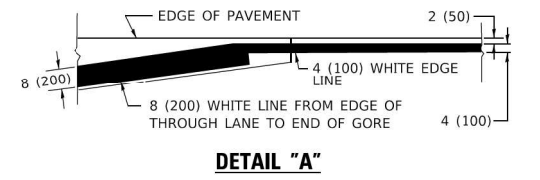


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



- NOTES:
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
 - ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

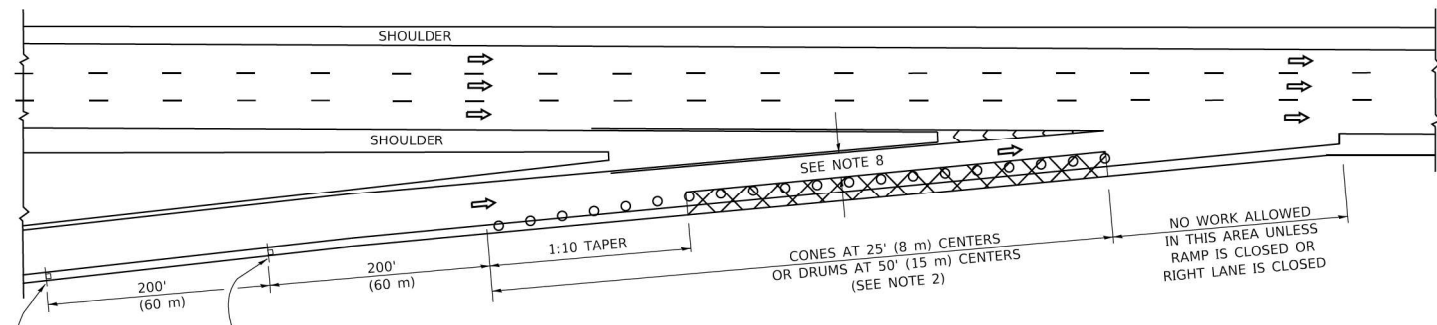
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

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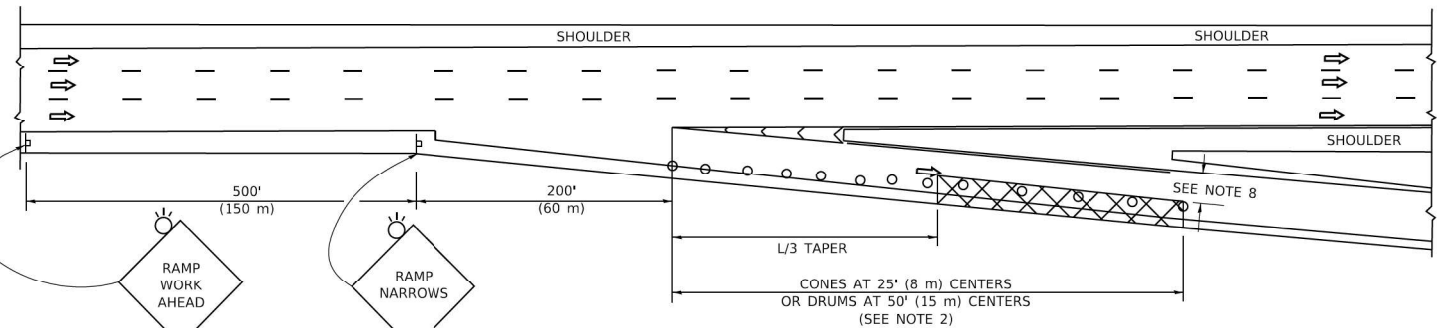
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TC-12		CONTRACT NO. 62P70		
ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

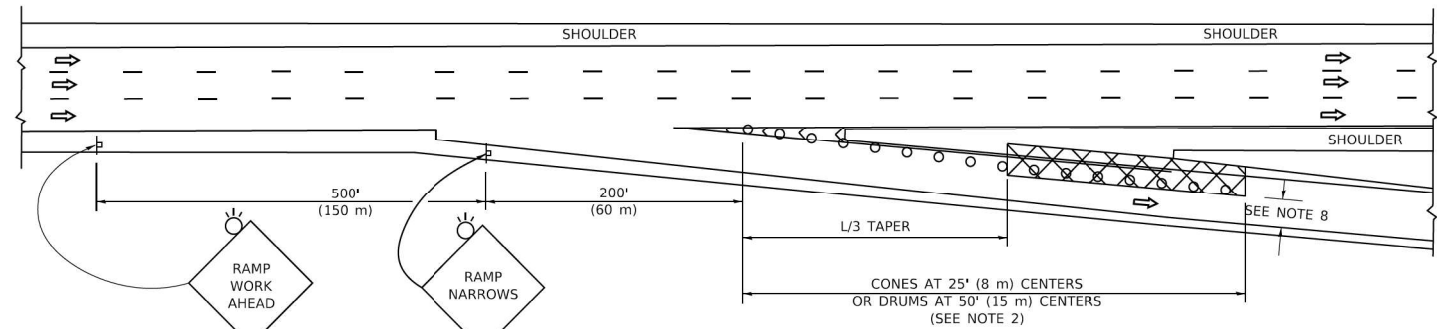
SHOULDER CLOSURE DETAILS



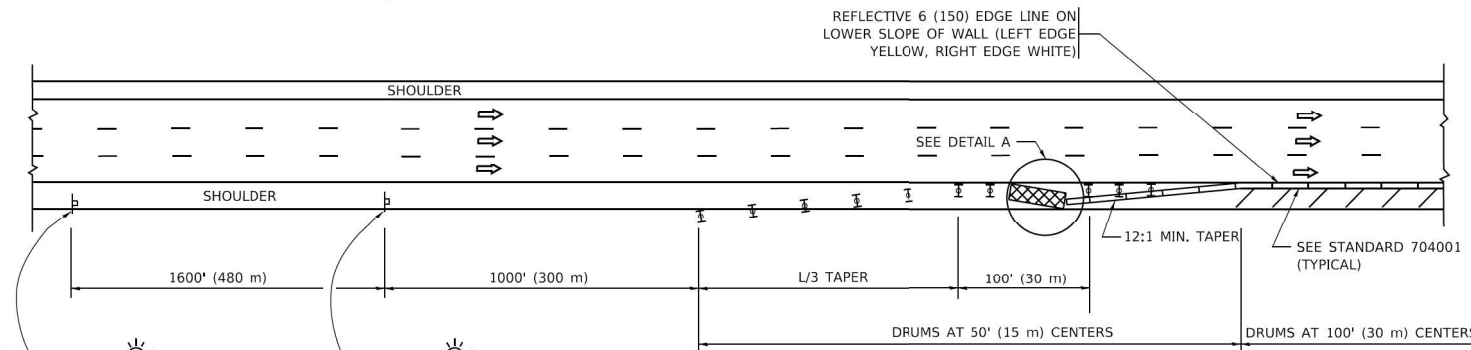
TYPICAL ENTRANCE RAMP



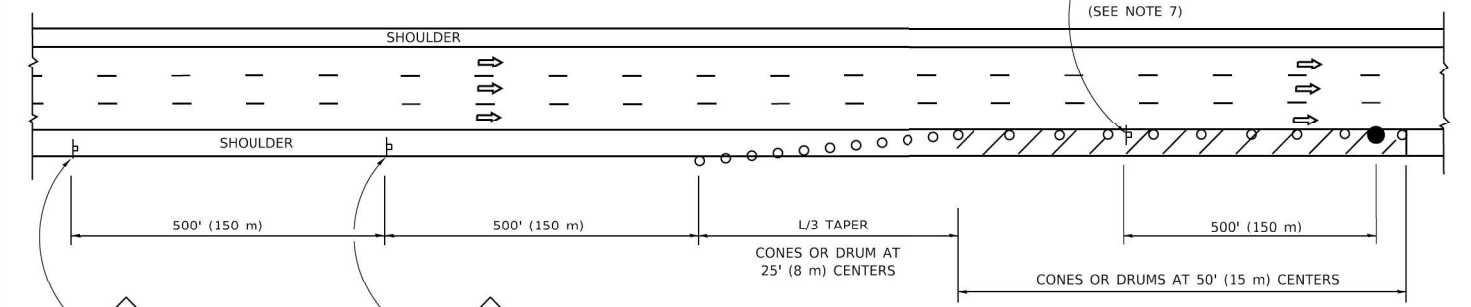
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

- SYMBOLS**
- ACTIVE WORK AREA
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - FLAGGER WITH CONTROL SIGN
 - TYPE II BARRICADE OR DRUM
 - CONE, DRUM OR BARRICADE
 - IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

- THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(WHS)$ $L=(WHS)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
- 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

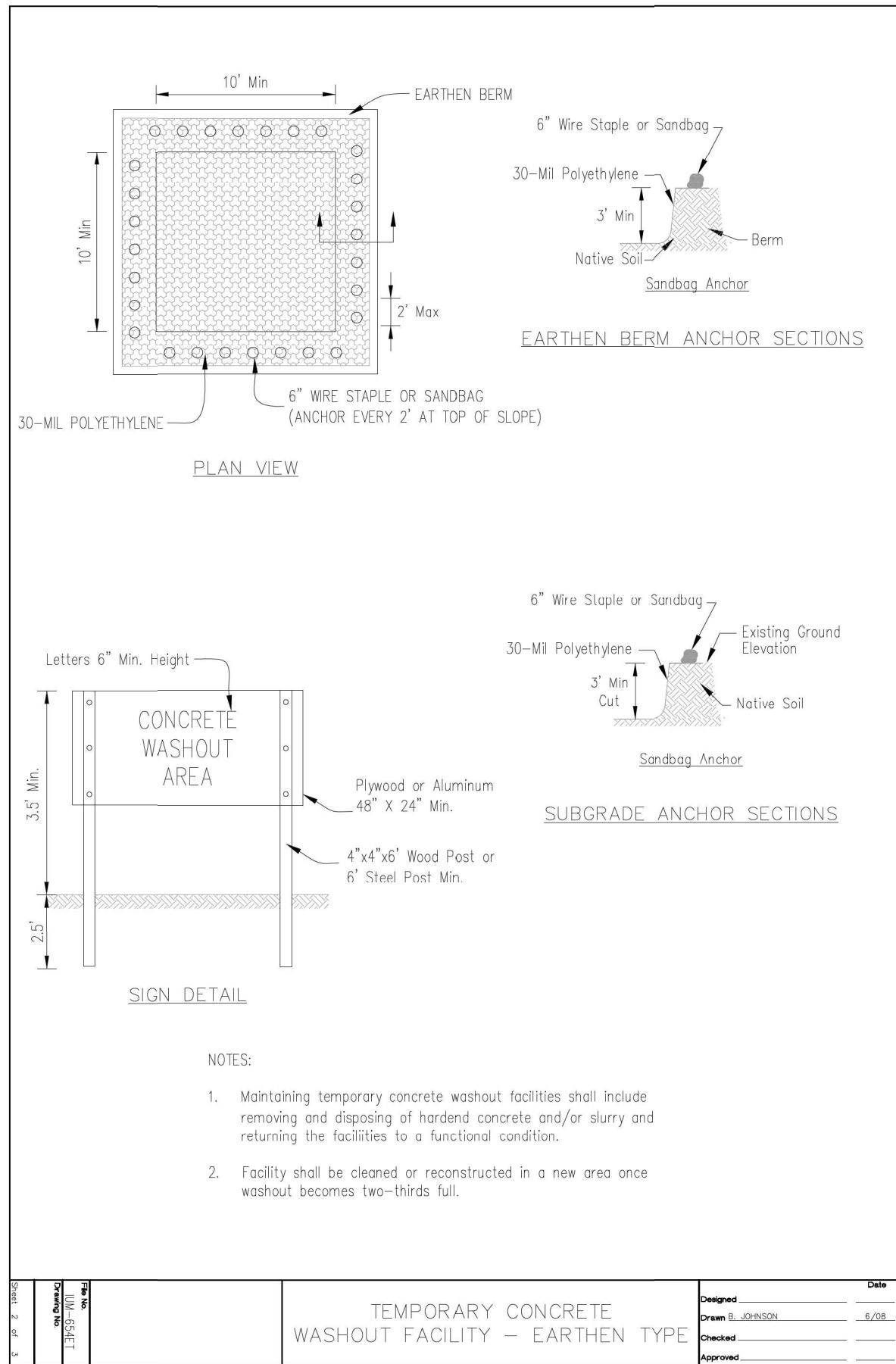
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PLOT DATE = 3/4/2019	DATE - 11-96	REVISED - M.D. 01-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY			
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	40
TC-17			CONTRACT NO. 62P70	
ILLINOIS FED. AID PROJECT				



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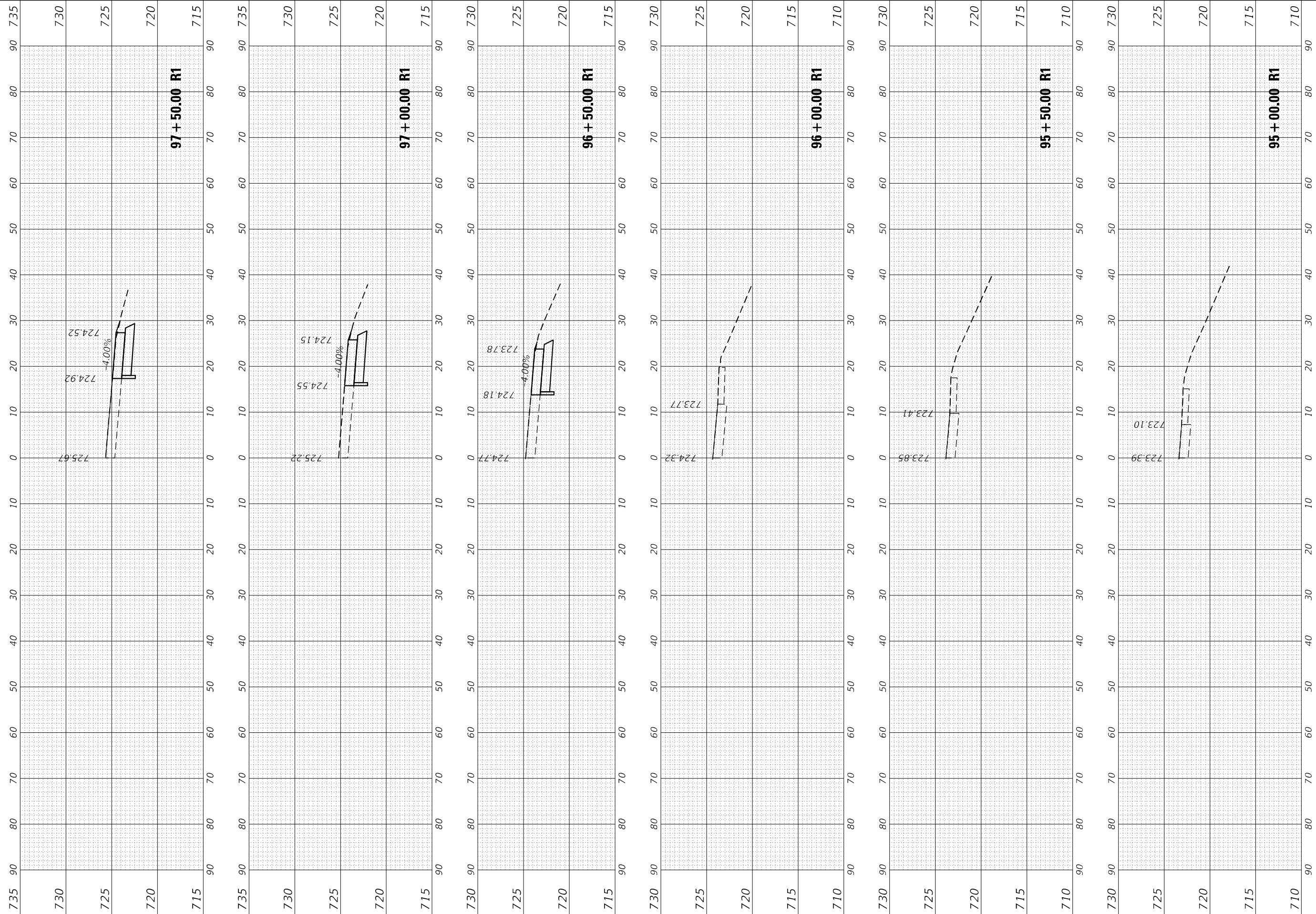
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-153-WS	WILL	48	41
CONTRACT NO. 62P70				
ILLINOIS FED. AID PROJECT				

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

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

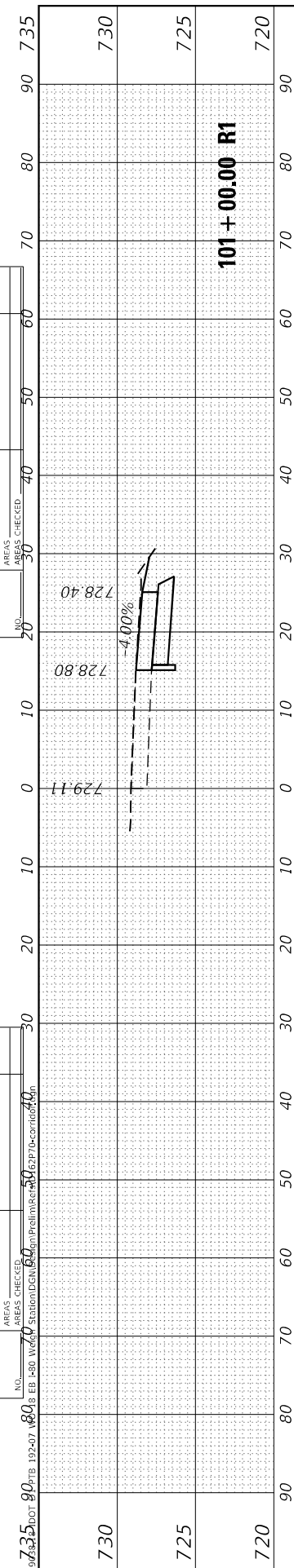
**FAI 80 (I-80) EB WEIGH STATION
CROSS SECTIONS**

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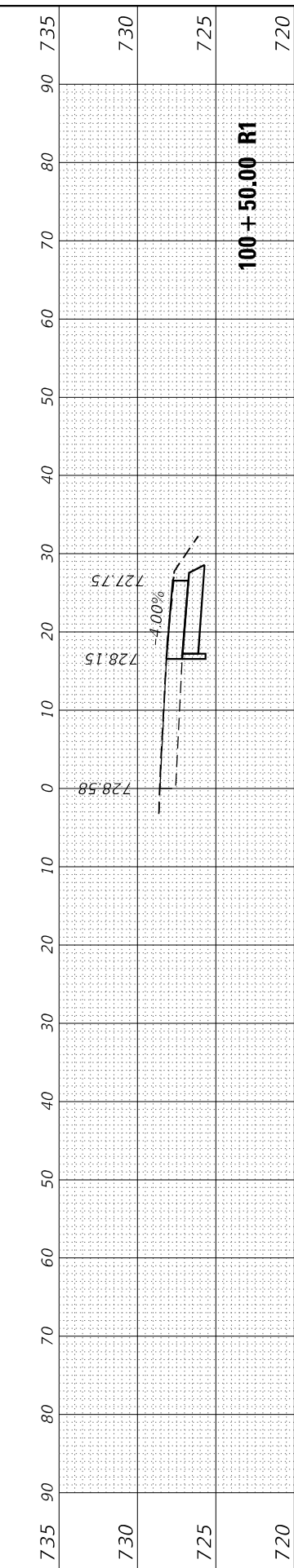
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CONTRACT NO. 62P70			ILLINOIS FED. AID PROJECT	

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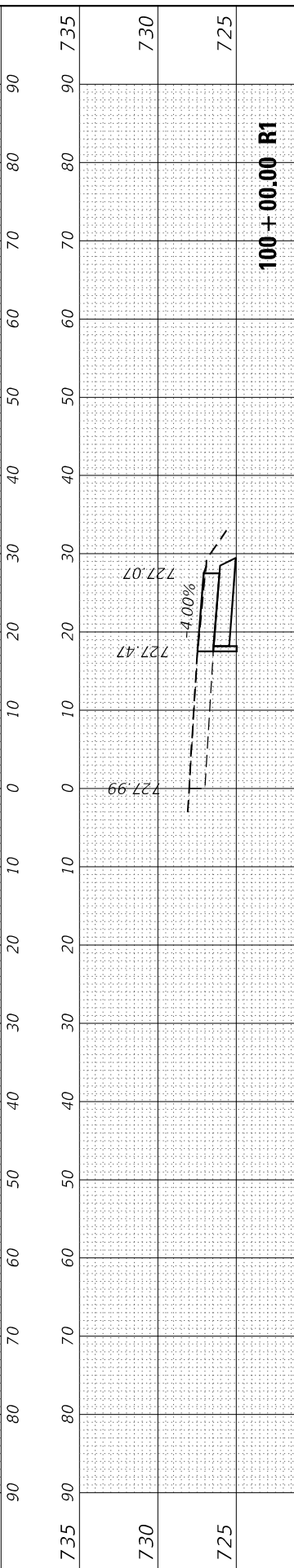
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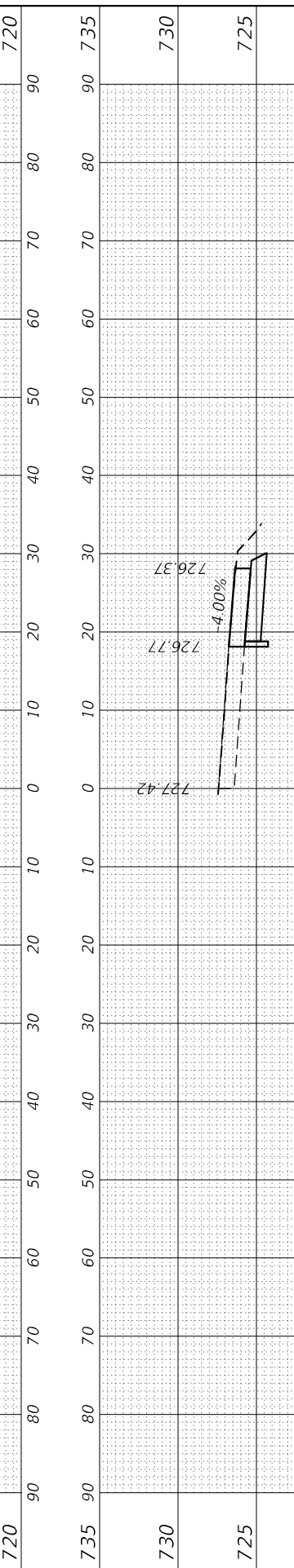
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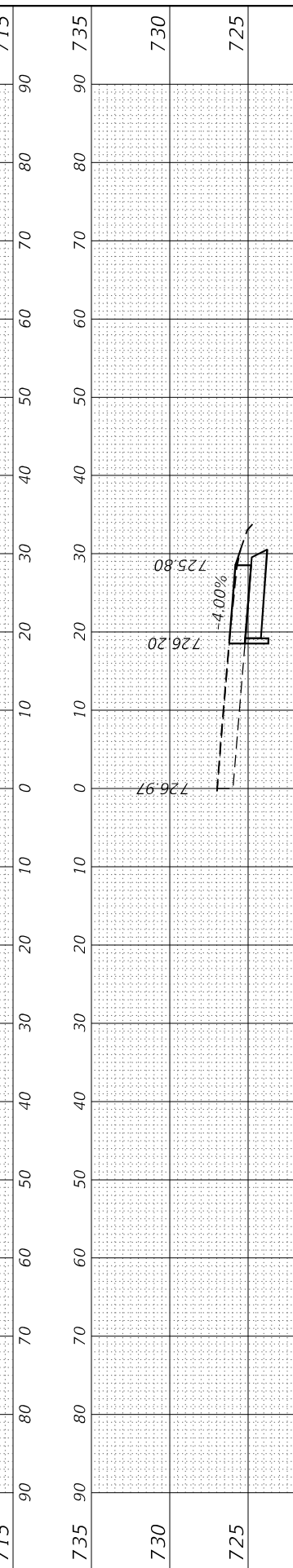
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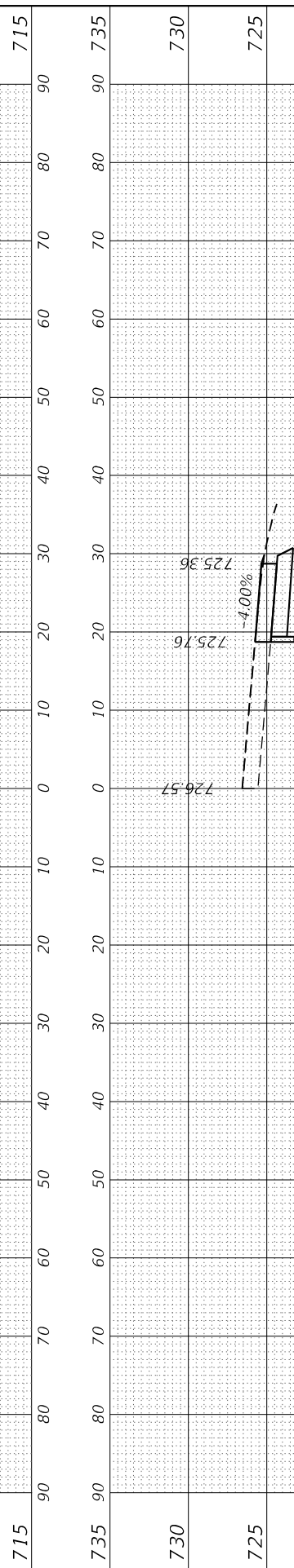
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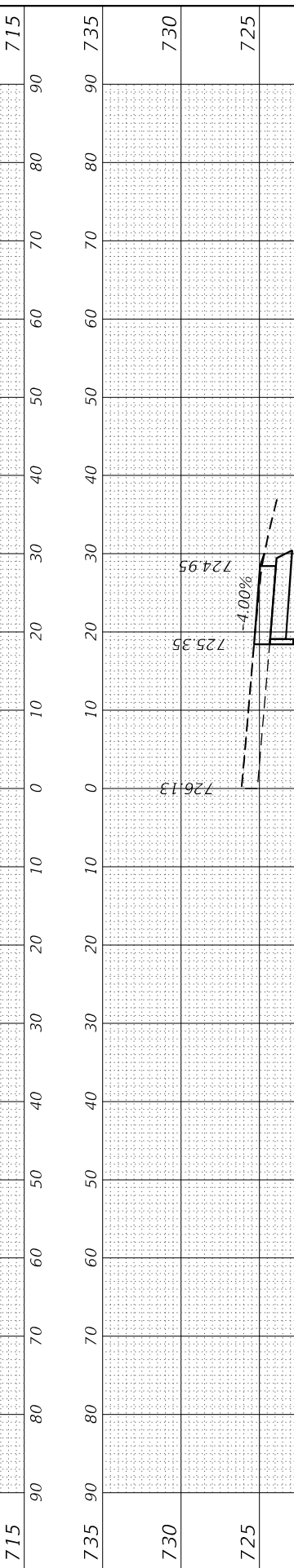
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99 + 00.00 R1



98 + 50.00 R1



98 + 00.00 R1

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PLOT DATE = 6/6/2022	DATE - 3/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 80 (I-80) EB WEIGH STATION
CROSS SECTIONS

SCALE: 1"=5'V,10'H SHEET 2 OF 7 SHEETS STA. 98+00.00 R1 TO STA. 101+00.00 R1

F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 43
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P70	

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DATE - 3/25/2022

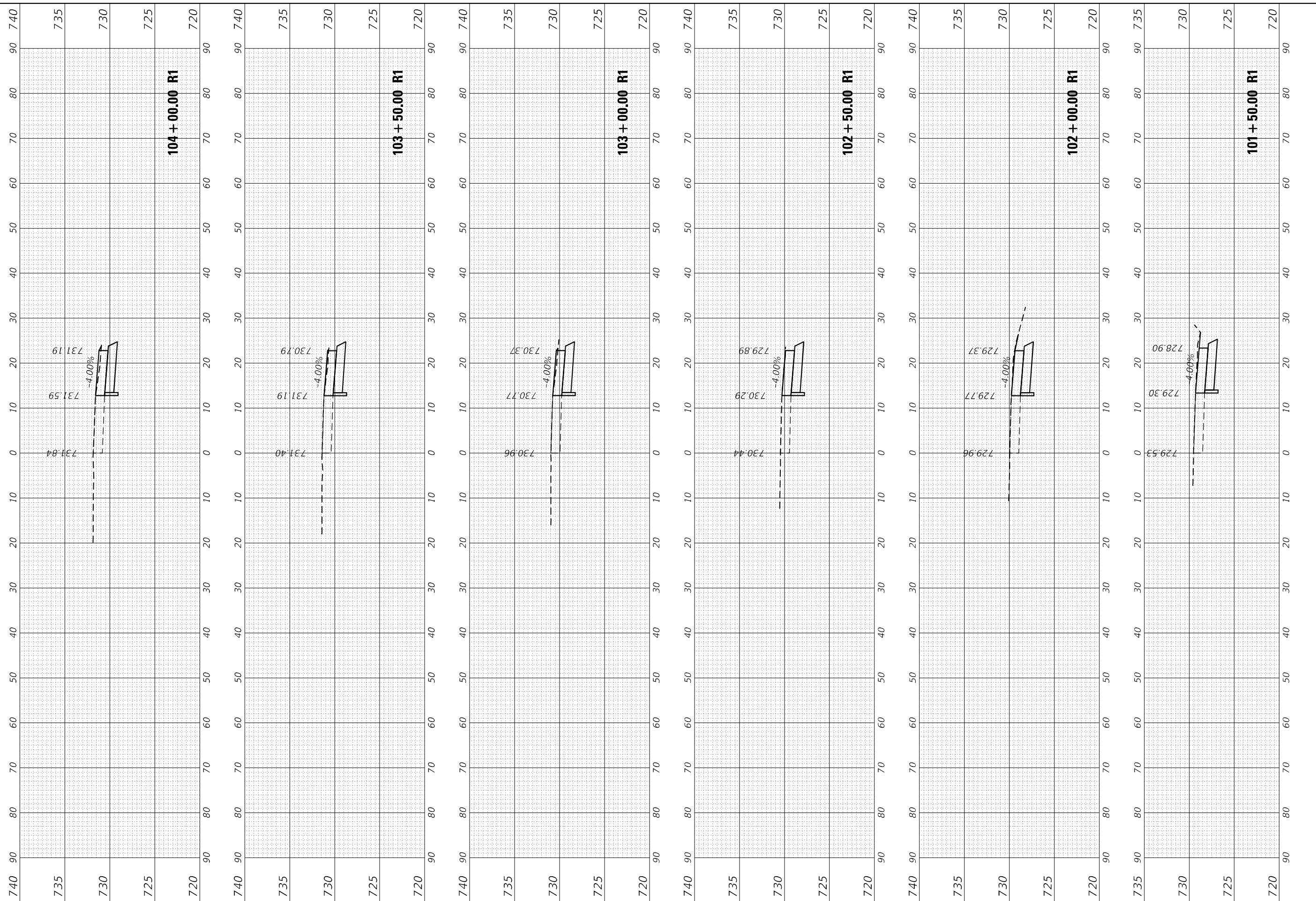
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 80 (I-80) EB WEIGH STATION
CROSS SECTIONS**

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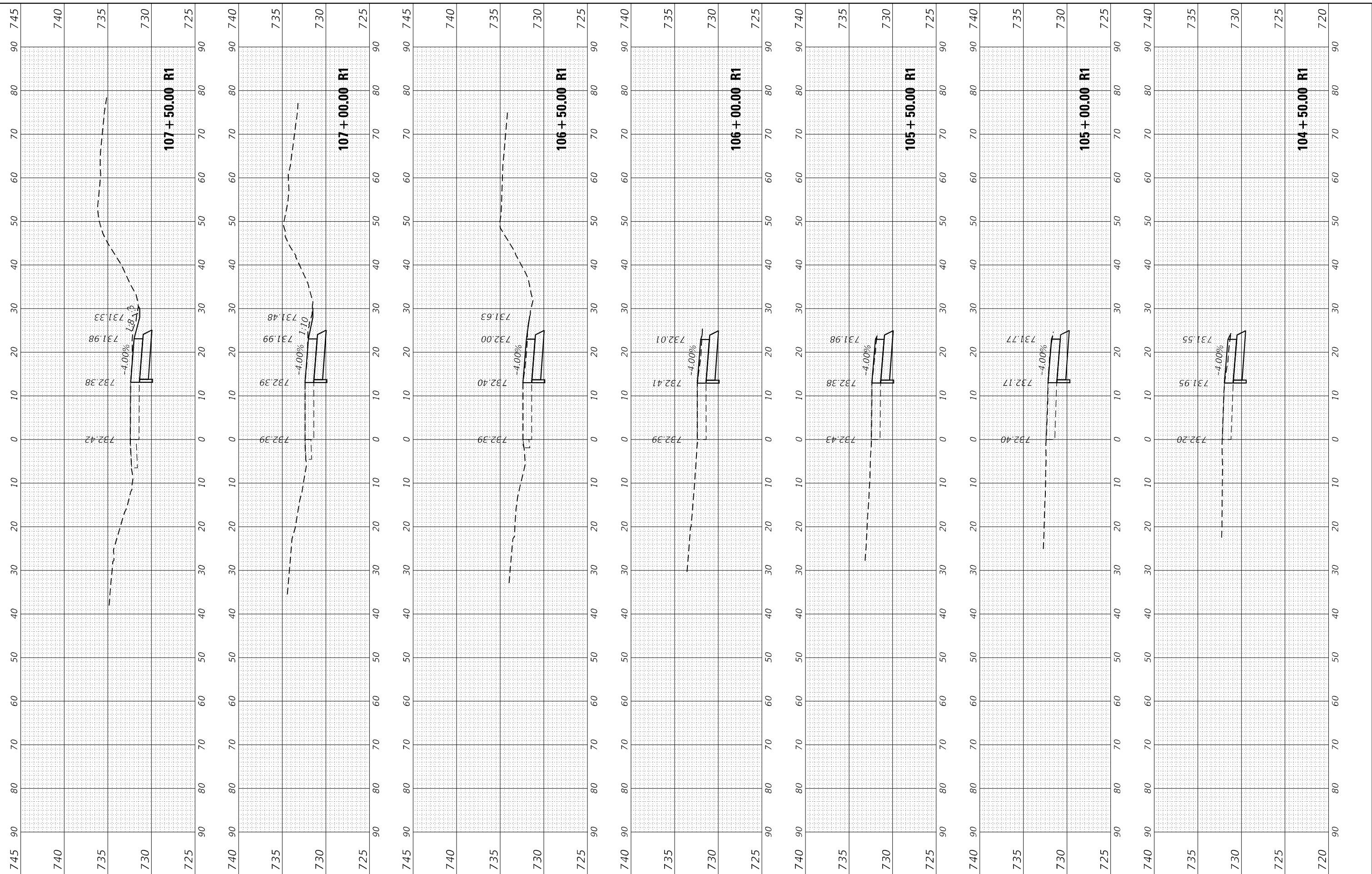
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CONTRACT NO. 62P70			ILLINOIS FED. AID PROJECT	



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NOTE BOOK	PLOTTED		
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PLOT DATE = 6/6/2022	DATE - 3/25/2022	REvised -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 80 (I-80) EB WEIGH STATION
CROSS SECTIONS

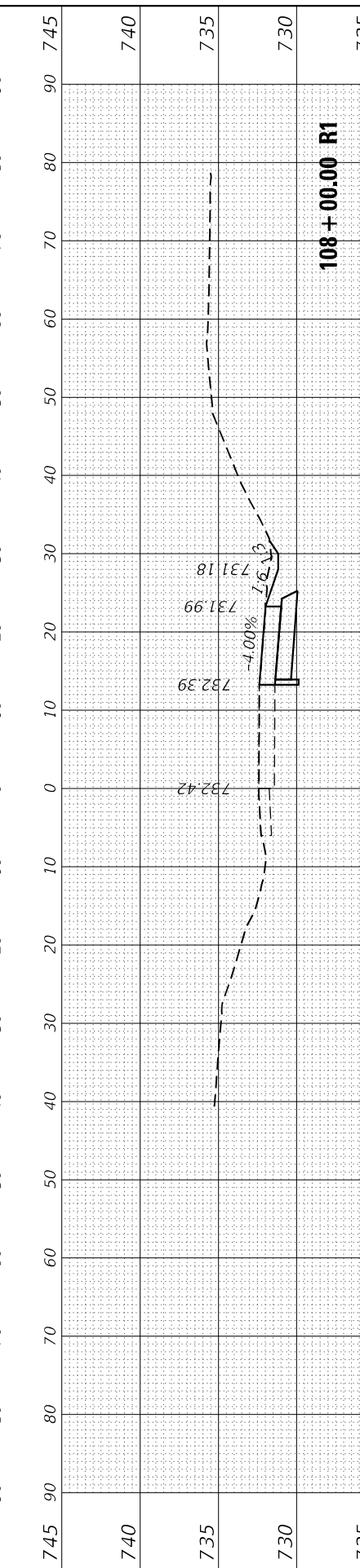
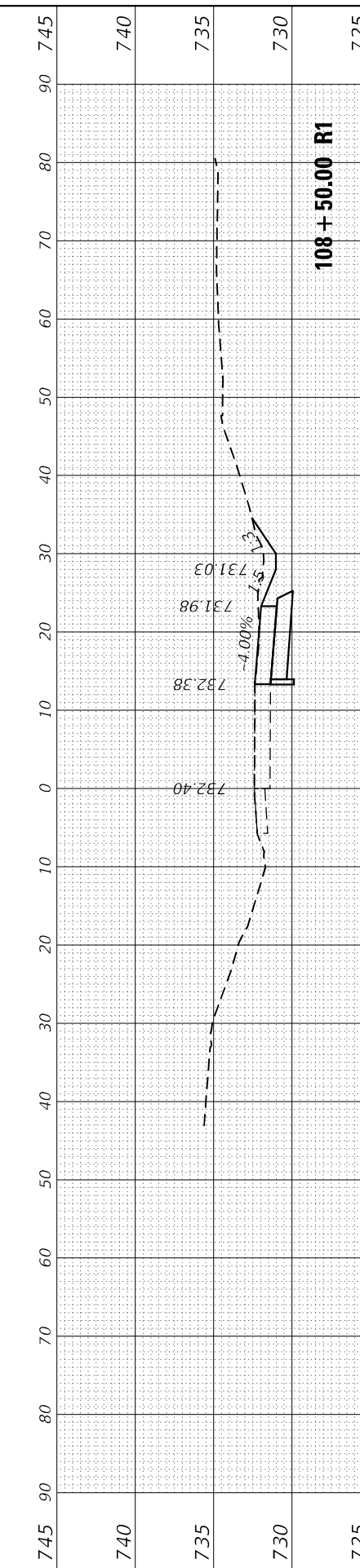
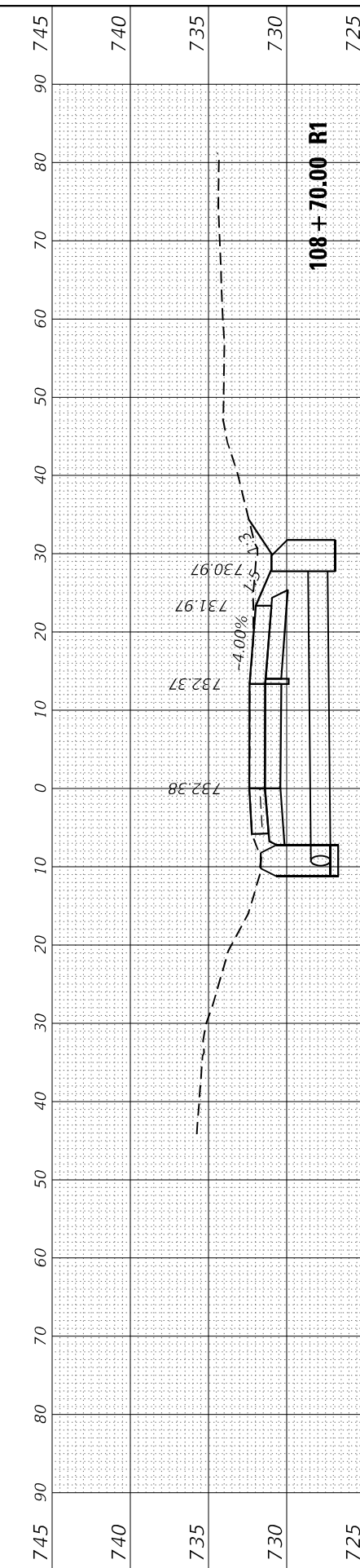
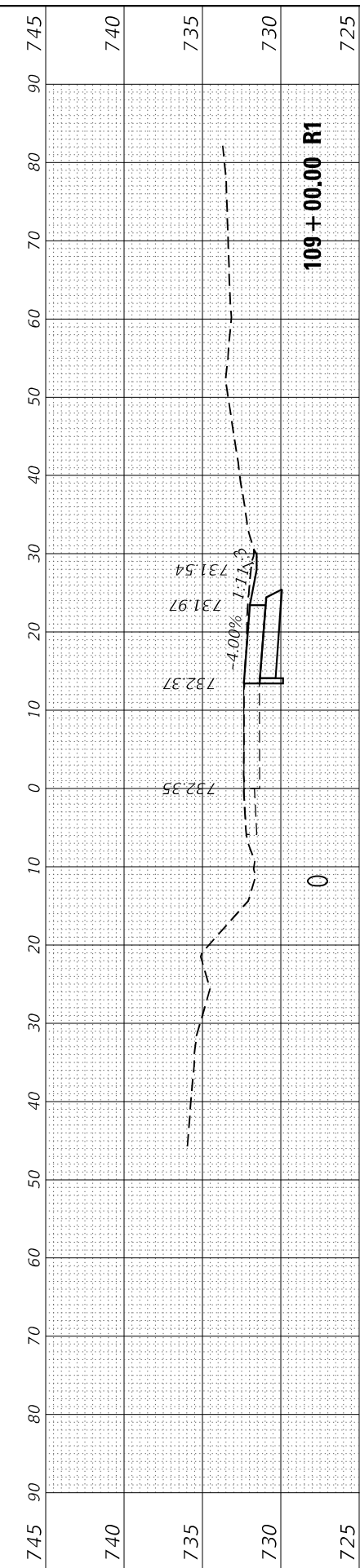
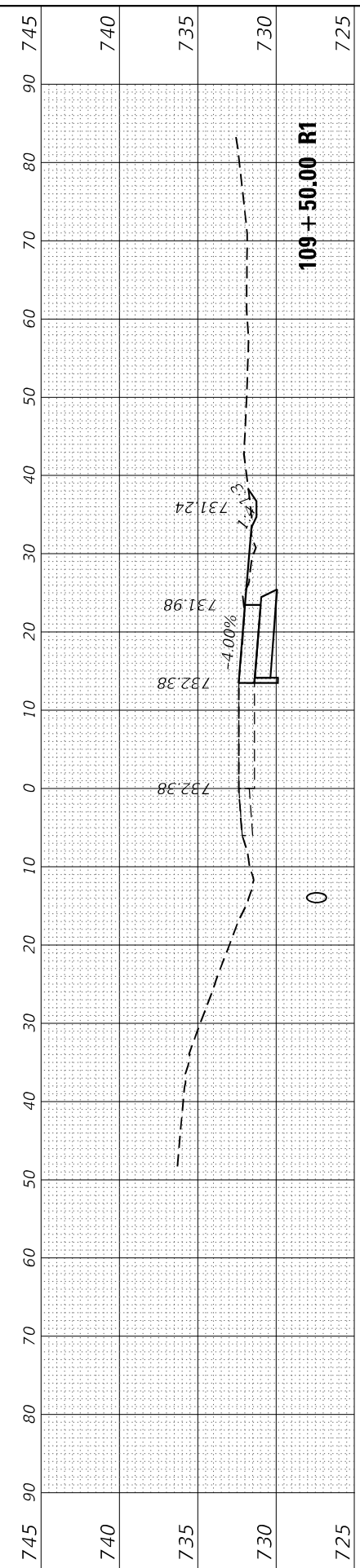
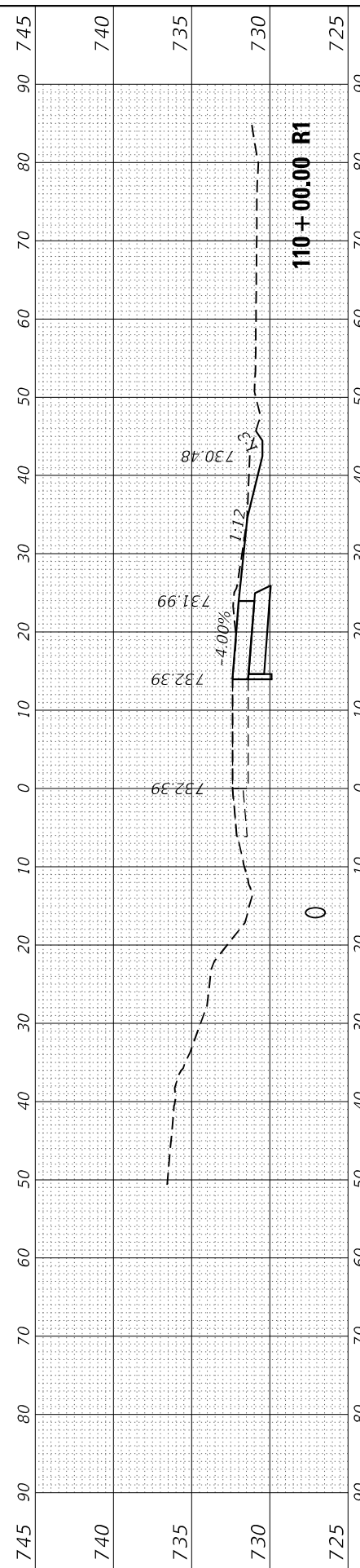
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F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 45
CONTRACT NO. 62P70			ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 80 (I-80) EB WEIGH STATION
CROSS SECTIONS**

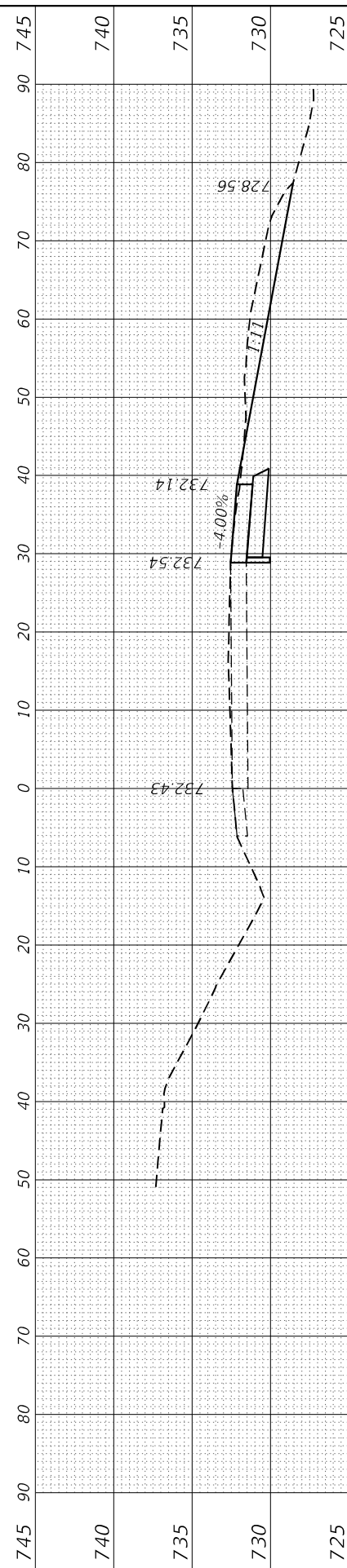
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CONTRACT NO. 62P70			ILLINOIS FED. AID PROJECT	

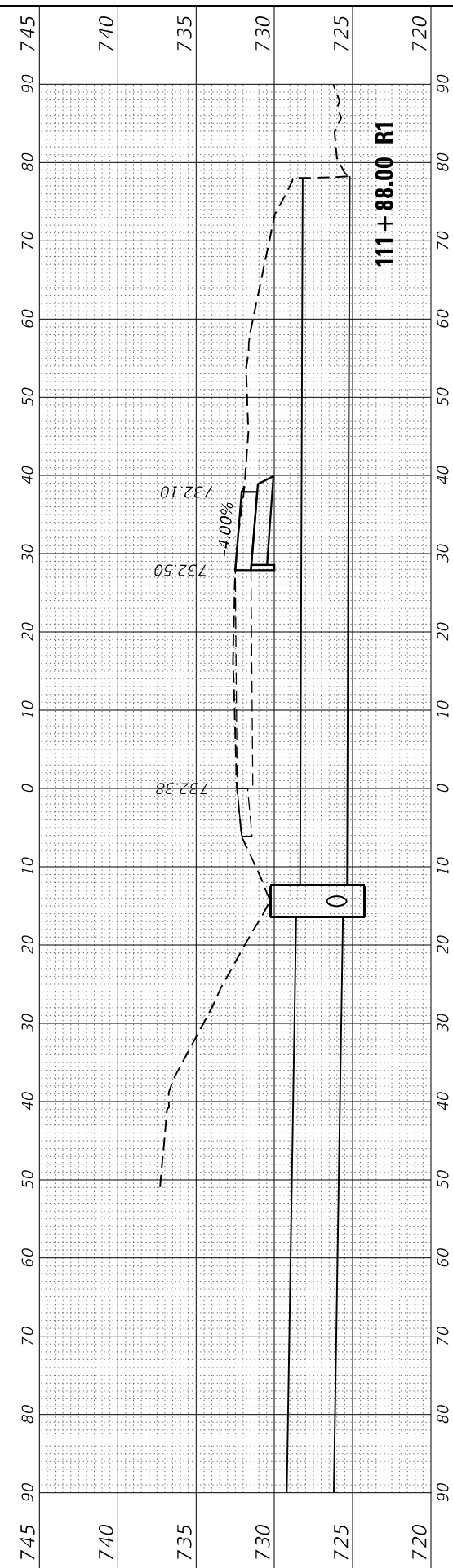
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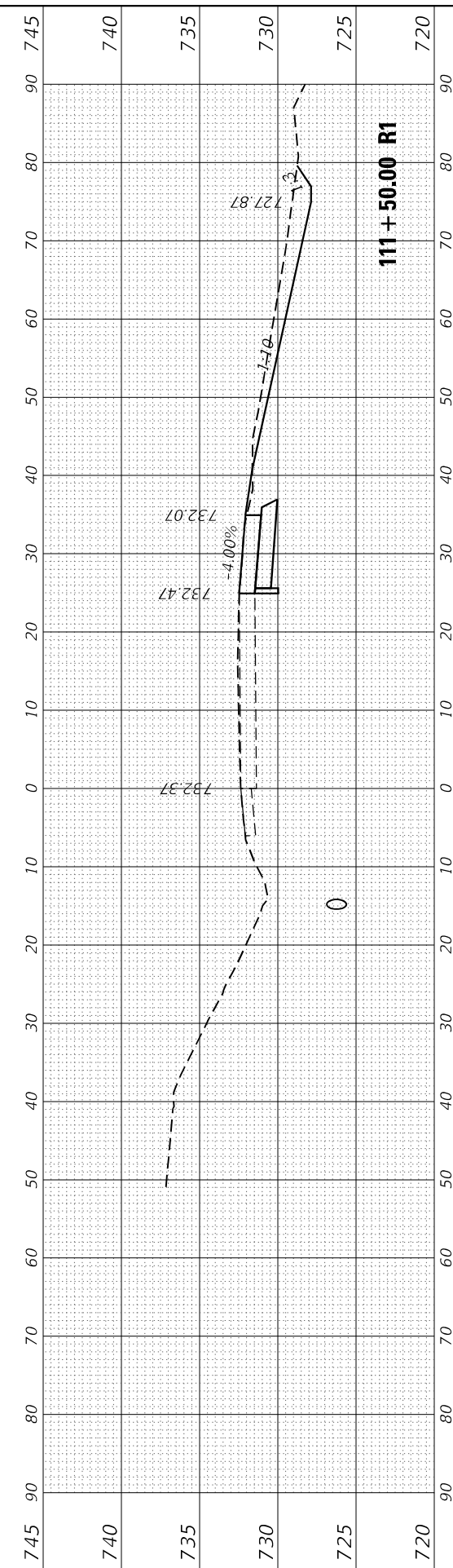
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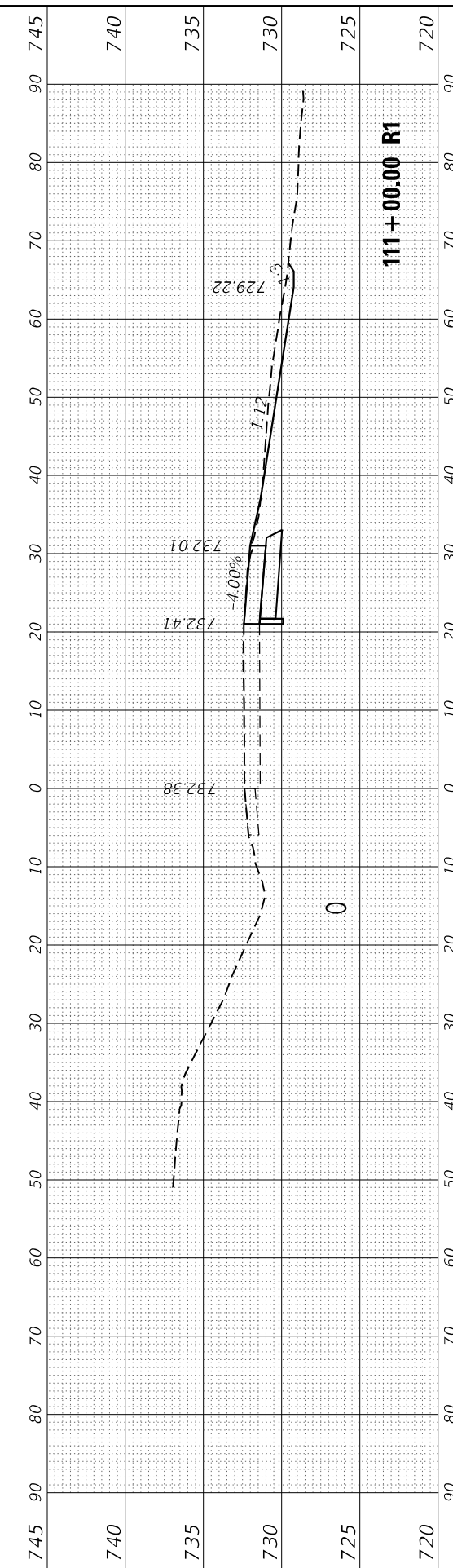
112 + 00.00 R1



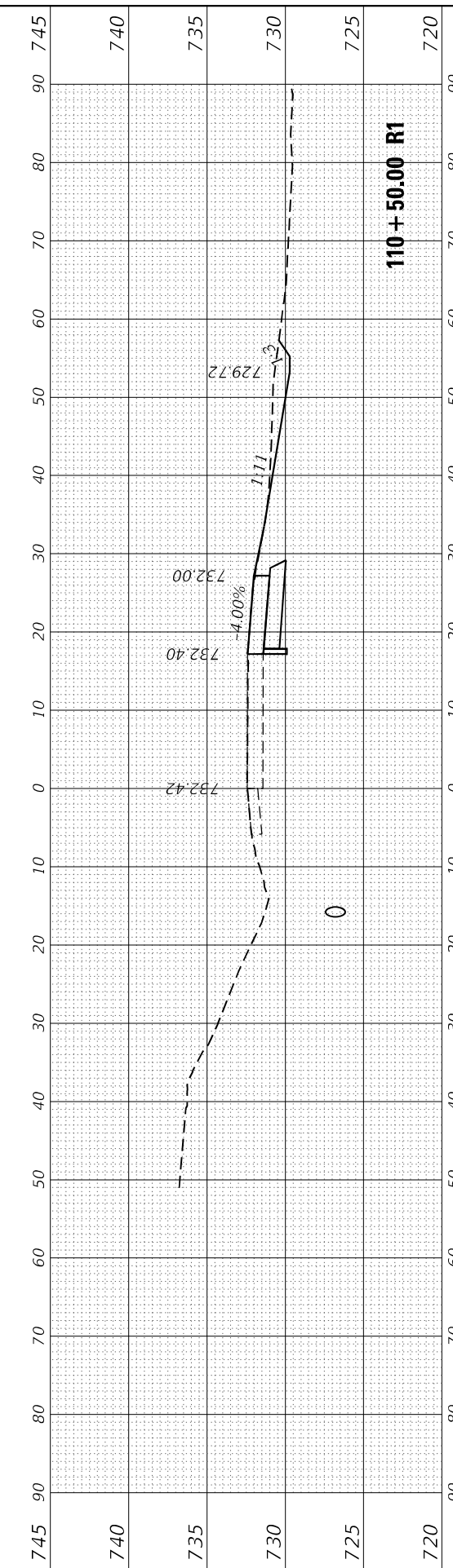
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111 + 50.00 R1



111 + 00.00 R1



110 + 50.00 R1

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 Civil Engineering Design

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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 80 (I-80) EB WEIGH STATION
CROSS SECTIONS

SCALE: 1"=5'V, 10'H SHEET 6 OF 7 SHEETS STA. 110+50.00 R1 TO STA. 112+00.00 R1

F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P70	

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EFK Moen
Civil Engineering Design

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 80 (I-80) EB WEIGH STATION
CROSS SECTIONS**

SCALE: 1"=5'V,10'H SHEET 7 OF 7 SHEETS STA. 112+50.00 R1 TO STA. 114+00.00 R1

F.A.I. RTE. 80	SECTION 2021-153-WS	COUNTY WILL	TOTAL SHEETS 48	SHEET NO. 48
CONTRACT NO. 62P70			ILLINOIS FED. AID PROJECT	

