

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-21-7	WILL	20	1
		ILLINOIS	CONTRACT NO. 62C87	

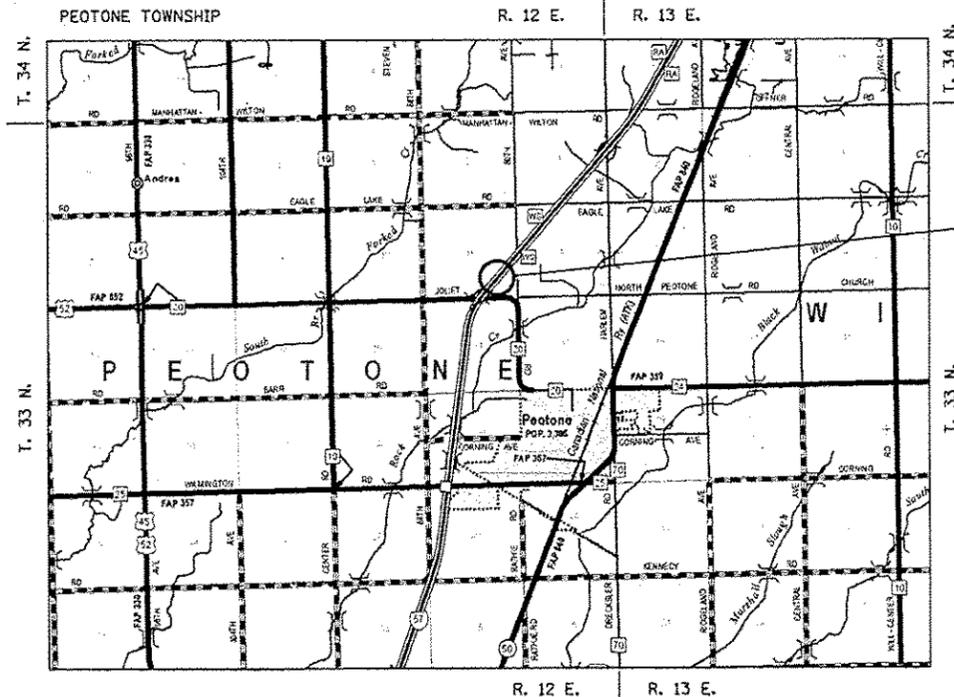
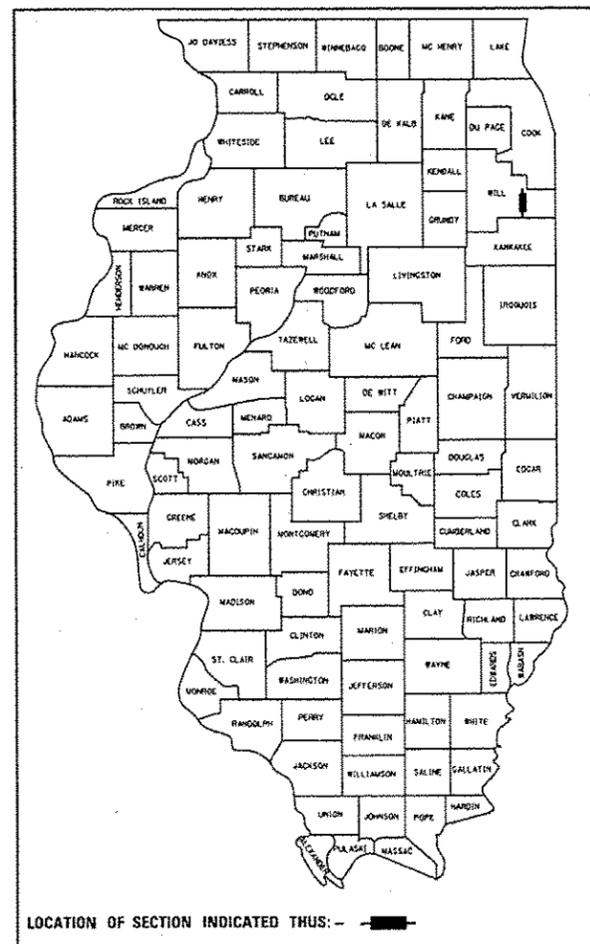
D-91-398-16

DEPARTMENT OF TRANSPORTATION

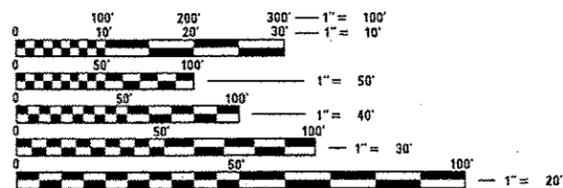
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.I. ROUTE 57: (I-57) NORTHBOUND
 NORTH OF PEOTONE ROAD
 SECTION 99-21-7
 LOW SPEED WEIGH-IN-MOTION
 SCALE REMOVAL & REPLACEMENT
 WILL COUNTY
 C-91-398-16

FOR INDEX OF SHEETS, SEE SHEET NO. 2



LOCATION OF IMPROVEMENT

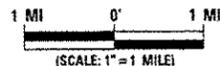


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER - J. ALAIN MIDY (847) 221-3056
 PROJECT MANAGER - ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 62C87



GROSS LENGTH = 170.00 FT. = 0.032 MILE
 NET LENGTH = 170.00 FT. = 0.032 MILE

6/30/16
Anthony W. Miller
 Expires 11/30/17



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED July 1, 2016
John F. ...
 REGIONAL ENGINEER

Aug 12, 2016
Maurice M. Addis, P.E.
 ACTING ENGINEER OF DESIGN AND ENVIRONMENT

Aug 12, 2016
...
 DIRECTOR OF PROGRAM DEVELOPMENT

Hutchison Engineering, Inc.
 SINCE 1948
 JACKSONVILLE • SHOREWOOD • PEORIA

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, GENERAL NOTES, COMMITMENTS AND SCHEDULES OF QUANTITIES
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	ALIGNMENT LAYOUT
7	PROPOSED ROADWAY PLAN
8-18	WEIGH-IN-MOTION SCALE DETAILS
19-20	CROSS SECTIONS

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
483001-04	PCC SHOULDER
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701901-05	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

DISTRICT 1 STANDARDS

TC08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC13	DISTRICT 1 TYPICAL PAVEMENT MARKINGS
TC17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

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 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF PEOTONE.
- 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 TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS. USE THE "LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)" DETAIL SHOWN ON HIGHWAY STANDARD 420001 FOR ALL LONGITUDINAL 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 MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE ENGINEER SHALL CONTACT REGINA COOPER, AREA TRAFFIC FIELD ENGINEER, AT (847) 705-4153 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 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.

PIPE UNDERDRAINS

STATION TO STATION	6010104	60108100	60100060
	PIPE UNDERDRAINS, TYPE 1, 4"	PIPE UNDERDRAINS 4" (SPECIAL)	CONCRETE HEADWALLS FOR PIPE DRAINS
	FOOT		EACH
103+62.8 TO 105+78.6 LT	215		
103+70.8 TO 104+23.8 RT	53		
103+50.0 TO 103+70.8 RT		29	1
105+78.6 TO 105+85.8 LT		10	
TOTALS	268	39	1

PAVEMENT PATCHING

STATION TO STATION	PAVEMENT PATCHING (SPECIAL)	TIE BARS 1"
	SQ YD	EACH
103+62.8 TO 104+23.8	203.6	74
104+23.8 TO 105+32.8	180.8	114
TOTAL	384.4	188
USE	385	188

SEEDING

LOCATION	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2
	ACRE	POUND			ACRE
REGRADED DITCH	0.1	9	9	9	0.1
EARTHWORK WASTE AREA	0.1	9	9	9	0.1
TOTALS	0.2	18	18	18	0.2
USE	0.25	18	18	18	0.25

FILE NAME *	USER NAME * JWhite	DESIGNED - AWM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAI 57 (I-57) NORTHBOUND WEIGH STATION INDEX OF SHEETS, STANDARDS, GENERAL NOTES, COMMITMENTS AND SCHEDULES OF QUANTITIES			F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
V:\Transportation\3238.04 - Dist 1 - 1-57	Veigh Station N of Peotone\CADD Sheets\DIS	CDRAWN\gennote.dgdCW	REVISED -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	57	99-21-7	WILL	20	2
	PLOT SCALE = 1/8" = 1'	CHECKED - AWM	REVISED -		CONTRACT NO. 62C87								
	PLOT DATE = 6/30/2016	DATE - 6/30/2016	REVISED -		ILLINOIS FED. AID PROJECT								

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY 0044 URBAN
21400100	GRADING AND SHAPING DITCHES	FOOT	285	285
25000200	SEEDING, CLASS 2	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18	18
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	18	18
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18	18
25100115	MULCH, METHOD 2	ACRE	0.25	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	125	125
28000500	INLET AND PIPE PROTECTION	EACH	1	1
28000510	INLET FILTERS	EACH	1	1
44213202	TIE BARS 1"	EACH	188	188
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	1	1
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	39	39
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	268	268
*66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	25	25

14

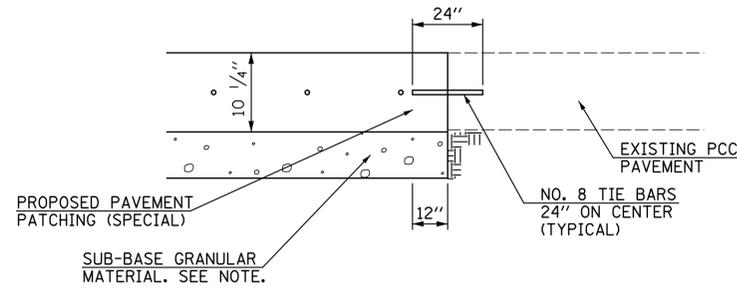
*Specialty Items

FILE NAME *	USER NAME * JWhite	DESIGNED - AWM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAI 57 (I-57) NORTHBOUND WEIGH STATION SUMMARY OF QUANTITIES			F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE * 6/30/2016	DATE - 6/30/2016	REVISED -		ILLINOIS FED. AID PROJECT							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY 0044 URBAN
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
67100100	MOBILIZATION	LSUM	1	1
78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	340	340
XT011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	1
Z0026290	FURNISHING AND INSTALLING WEIGH-IN-MOTION COMPONENTS	LSUM	1	1
X0320038	PAVEMENT PATCHING (SPECIAL)	SQ YD	385	385
X1480184	REMOVING WEIGH-IN-MOTION COMPONENTS	LSUM	1	1

9

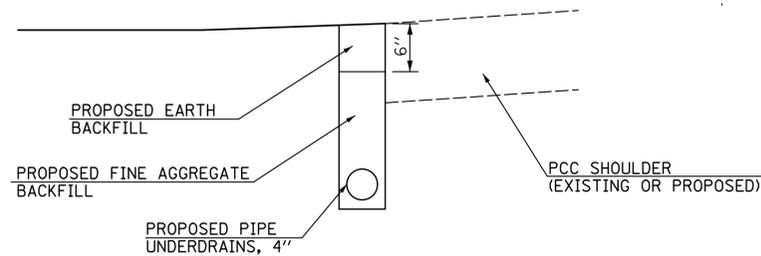
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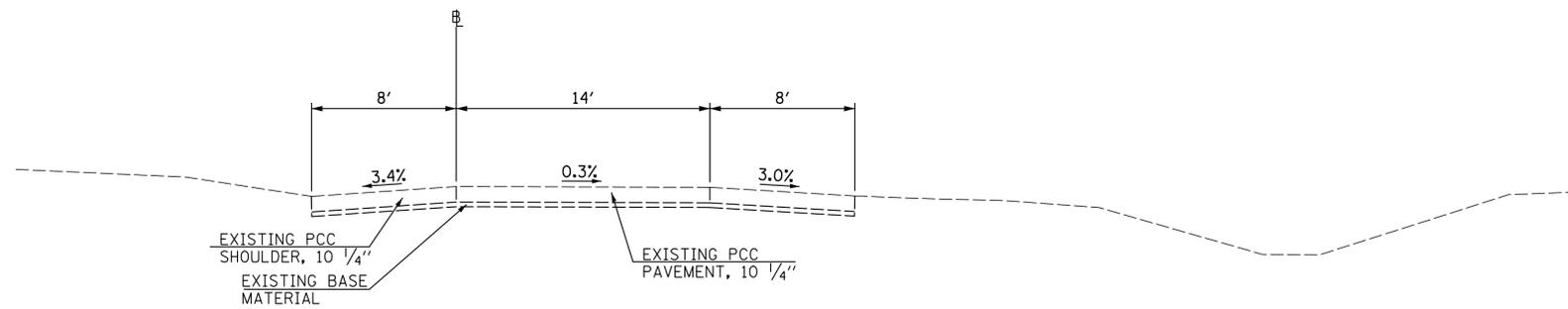
PAVEMENT PATCHING (SPECIAL)
TIE BAR DETAILS

NOTES

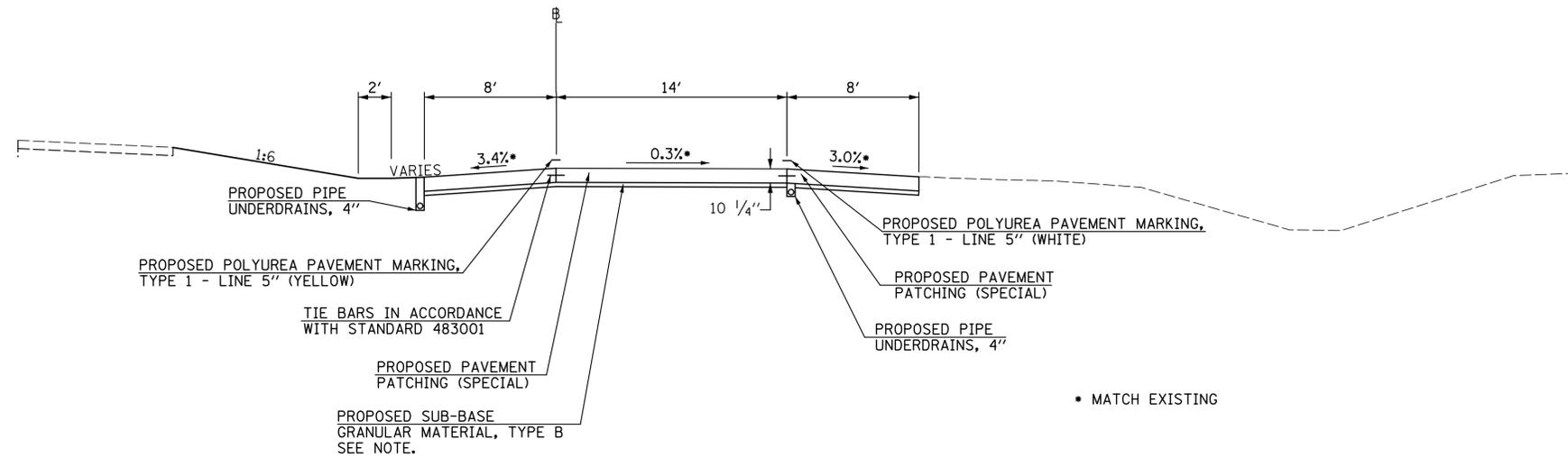
1. PAVEMENT PATCHING (SPECIAL) INCLUDES PREPARATION OF THE EXISTING BASE MATERIAL AND THE ADDITION OF SUB-BASE GRANULAR MATERIAL, TYPE B AS NECESSARY.
2. THE PAVEMENT PATCHING SHALL BE TIED TO THE EXISTING PAVEMENT IN ACCORDANCE WITH DETAIL ON THIS SHEET.



PIPE UNDERDRAINS, 4" DETAIL
ADJACENT TO SHOULDER

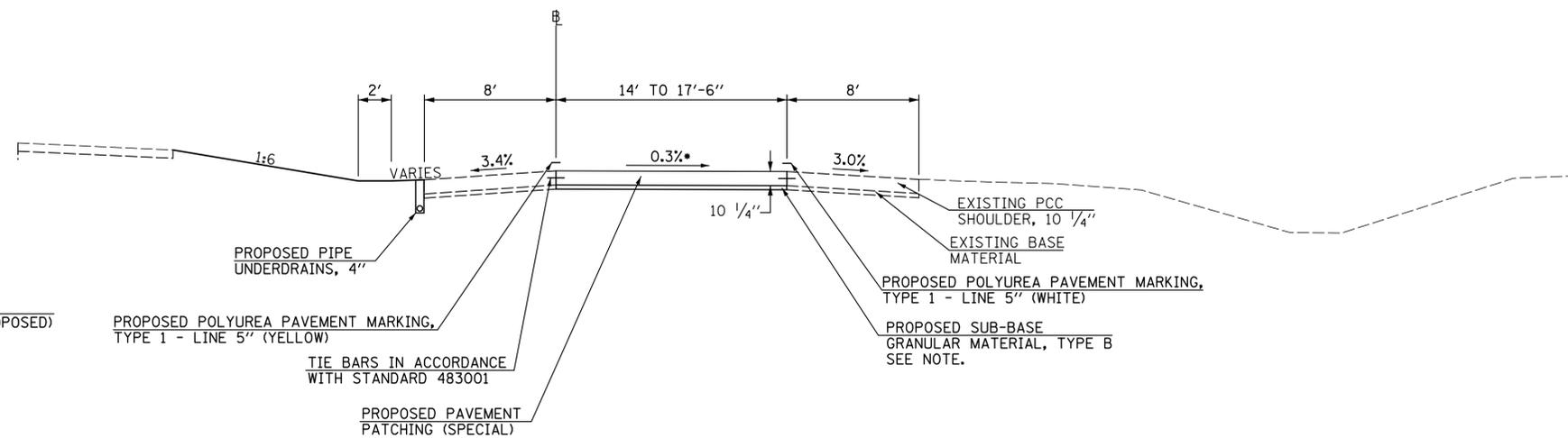


EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION
FA.I. 57 (NB) WEIGH STATION

STA 103+62.80 TO STA 104+23.80



PROPOSED TYPICAL SECTION
FA.I. 57 (NB) WEIGH STATION

STA 104+23.80 TO STA 105+32.80

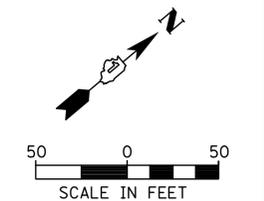
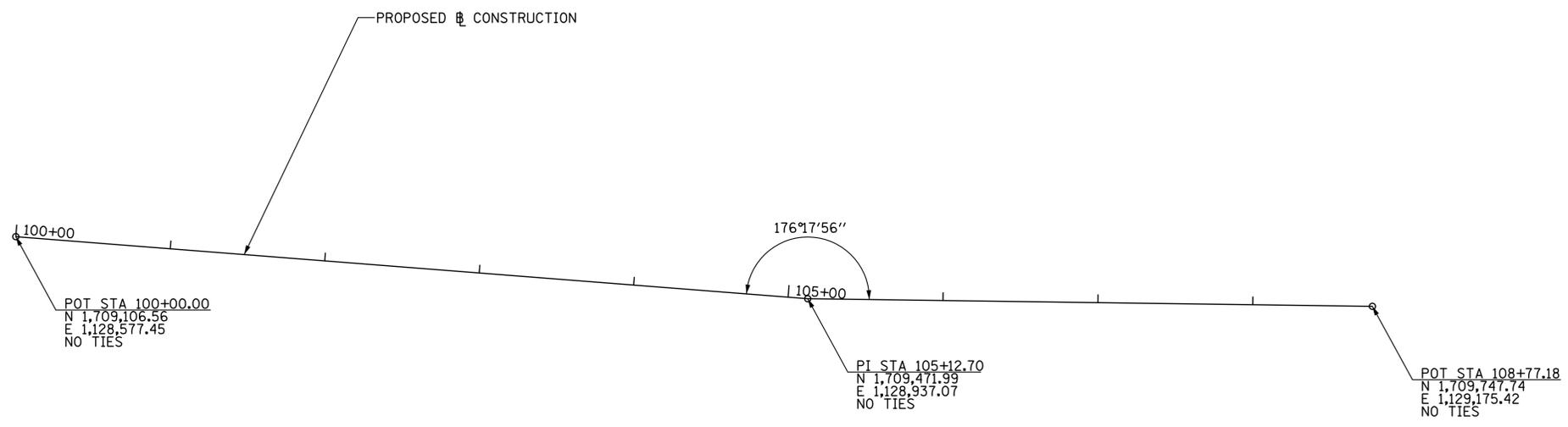
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	PLOT DATE = 6/30/2016	DATE - 6/30/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI (I-57) NORTHBOUND WEIGH STATION
TYPICAL SECTIONS

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.

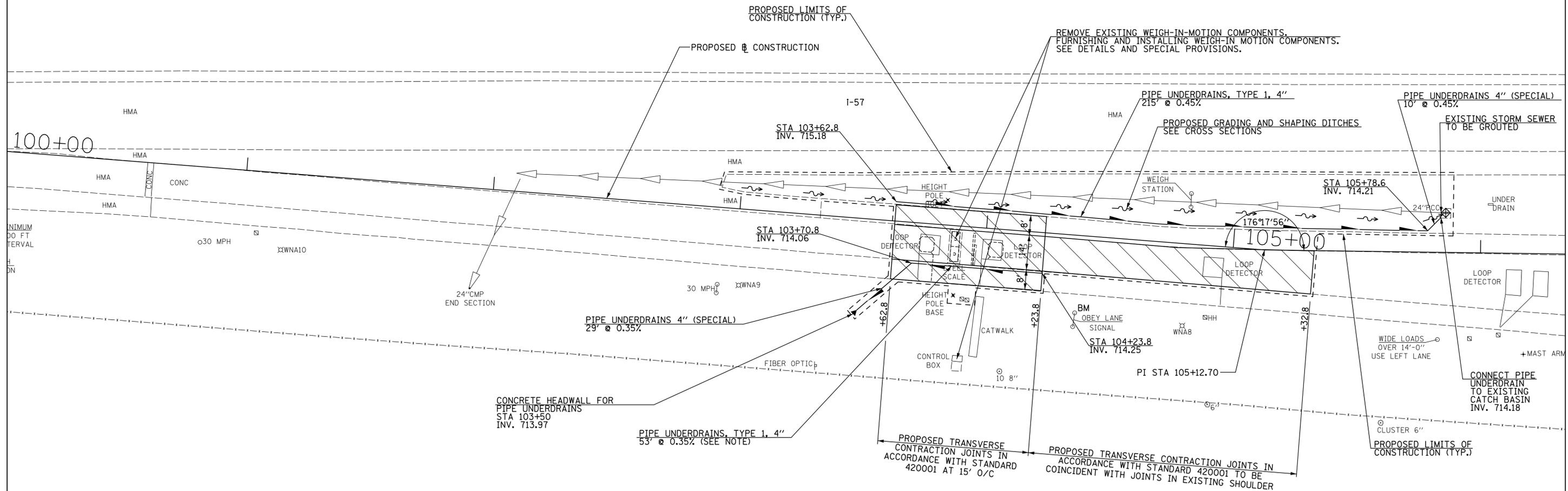
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-2I-7	WILL	20	5
			CONTRACT NO. 62C87	
ILLINOIS FED. AID PROJECT				



FILE NAME = V:\Transportation\3238.04 - Dist 1 - I-57	USER NAME = JWhite	DESIGNED - AWM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAI 57 (I-57) NORTHBOUND WEIGH STATION ALIGNMENT LAYOUT		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	W:Station N of Peotone\CADD Sheets\0162016\DRAWN\Alignment.dwg	CHECKED - AWM	REVISED -				57	99-2I-7	WILL	20	6
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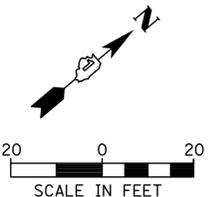
LEGEND:

 PROPOSED PAVEMENT PATCHING (SPECIAL)
SEE TYPICAL SECTIONS



NOTE: THE CONTRACTOR SHALL ADJUST THE DEPTH OF THE UNDERDRAIN TO ASSURE THE INVERT IS BELOW THE ELEVATION OF THE AGGREGATE BASE FOR THE WEIGH-IN-MOTION SCALE TO ASSURE POSITIVE DRAINAGE OF THE BASE.

BM - CHISELED "+" ON NW BOLT FOR "OBEY LANE SIGNAL" OVERHEAD SIGN
ELEV. 718.22



FILE NAME =	USER NAME = JWhite	DESIGNED - AWM	REVISED -
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	PLOT DATE = 6/30/2016	DATE - 6/30/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

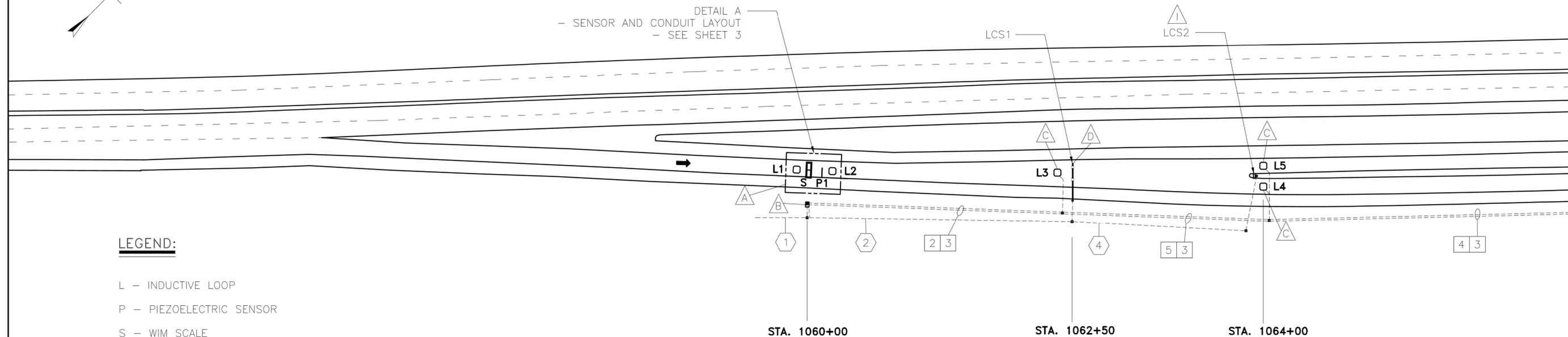
**FAI 57 (I-57) NORTHBOUND WEIGH STATION
PLAN**

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-2I-7	WILL	20	7
CONTRACT NO. 62C87				
ILLINOIS FED. AID PROJECT				



DETAIL A
- SENSOR AND CONDUIT LAYOUT
- SEE SHEET 3



LEGEND:

- L - INDUCTIVE LOOP
- P - PIEZOELECTRIC SENSOR
- S - WIM SCALE
- LCS - LANE CONTROL SIGNAL
- TS - TRAFFIC SIGNAL
- CABINET
- SIGNAL CONDUIT
- POWER CONDUIT
- NOTE

GENERAL NOTES:

ALL CONNECTIONS BETWEEN SENSORS AND LEAD CABLES ARE DONE IN PULL BOX AND ARE SOLDERED THEN SEALED FOR WATERPROOFING. NUMBER AND PLACEMENT OF PULL BOXES NOT SHOWN.

POWER CABLES MUST BE RUN IN SEPARATE CONDUITS/PULLBOXES FROM SIGNAL CABLES.

SENSOR SPACING SHOWN IS TYPICAL SPACING REQUIREMENT, ACTUAL SENSOR SPACING MAY BE ALTERED TO SUIT SITE CONDITIONS BY THE IRD FIELD REPRESENTATIVE.

ROAD SURFACE MUST MEET IRD SPECIFICATIONS FOR PAVEMENT CONDITIONS TO ACHIEVE OPTIMAL SYSTEM PERFORMANCE.

CABLES MUST BE PROTECTED BY PVC SLEEVES WHERE THEY CROSS PAVEMENT JOINTS/CRACKS.

IRD RECOMMENDS THAT PULL BOXES BE NO FURTHER THAN 200' [61m] APART. PULL BOXES SHALL MEET ILLINOIS DOT STANDARD SPECIFICATIONS. MINIMUM SIZE FOR PULL BOXES SHALL BE 19.25" [48.9cm] x 32.25" [81.9cm] x 24.00" [61.0cm]

EXACT ROUTING OF CONDUIT TO BE DETERMINED ON SITE. CONDUITS ARE LABELED LEFT TO RIGHT, TOP TO BOTTOM.

WIM CABINET REQUIRES 120V (15A). POWER FOR CABINET WILL BE TAKEN FROM CLOSEST SOURCE TO MINIMIZE VOLTAGE DROP (EXISTING POWER).

DRAWING NOT TO SCALE.

POWER CONDUITS:

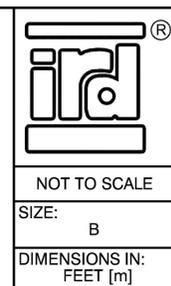
- CONDUIT (EXISTING)
1-WIM CABINET POWER - (EXISTING)
(SEE GENERAL NOTES FOR CABINET POWER)
- CONDUIT (EXISTING)
CABLING (EXISTING) - (LCS1,LCS2)
- CONDUIT (EXISTING)
CABLING (EXISTING) - (TS)
- CONDUIT (EXISTING)
CABLING (EXISTING) - (LCS2)

SIGNAL CONDUITS:

- 1" CONDUIT (EXISTING)
1-2C 14AWG (LOOP WIRE)-(EXISTING)
- 2" CONDUIT (EXISTING)
3-2C 18AWG (LOOP LEADS L3,L4,L5)-(EXISTING)
- 2" CONDUIT (EXISTING)
1-8 STRAND MULTIMODE FIBER OPTIC CABLE (WIM COM)-(EXISTING)
- 2" CONDUIT (EXISTING)
SPARE
- 2" CONDUIT (EXISTING)
2-2C 18AWG (LOOP LEADS L4,L5)-(EXISTING)

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
1	PRELIMINARY RELEASE	LPe/TDe	DPr	BKI	MAY 25/16
2	PRELIMINARY RELEASE. REV 2.	LPe/TDe			JUN 16/16

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INTERNATIONAL ROAD DYNAMICS INC.
SASKATOON SASKATCHEWAN CANADA

DWG. TITLE:
**SITE LAYOUT
RAMP SORTER SYSTEM
ILLINOIS DOT - PEOTONE NB**

DWG. No. **MILRSS01** REV.: **2**

CAD FILE: **MILRSS01.DWG** SHEET **1** OF **3**

FILE NAME = V:\Transportation\3238.04 - Dist 1 - I-57	USER NAME = JWhite	DESIGNED - AWM	REVISED -
Weight Station N of Peotone\CADD Sheets\01622	DRAWN details.dgn JCW	CHECKED - AWM	REVISED -
PLOT SCALE = 1.00' / in.	DATE - 6/30/2016	DATE - 6/30/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 57 (I-57) NORTHBOUND WEIGH STATION
WEIGH-IN-MOTION SCALE DETAILS**

SCALE: N/A SHEET NO. 1 OF 11 SHEETS STA. TO STA.

F.A.I. RTE 57	SECTION 99-2I-7	COUNTY WILL	TOTAL SHEETS 20	SHEET NO. 8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C87	

DETAIL A – SENSOR AND CONDUIT LAYOUT

POWER CONDUITS:

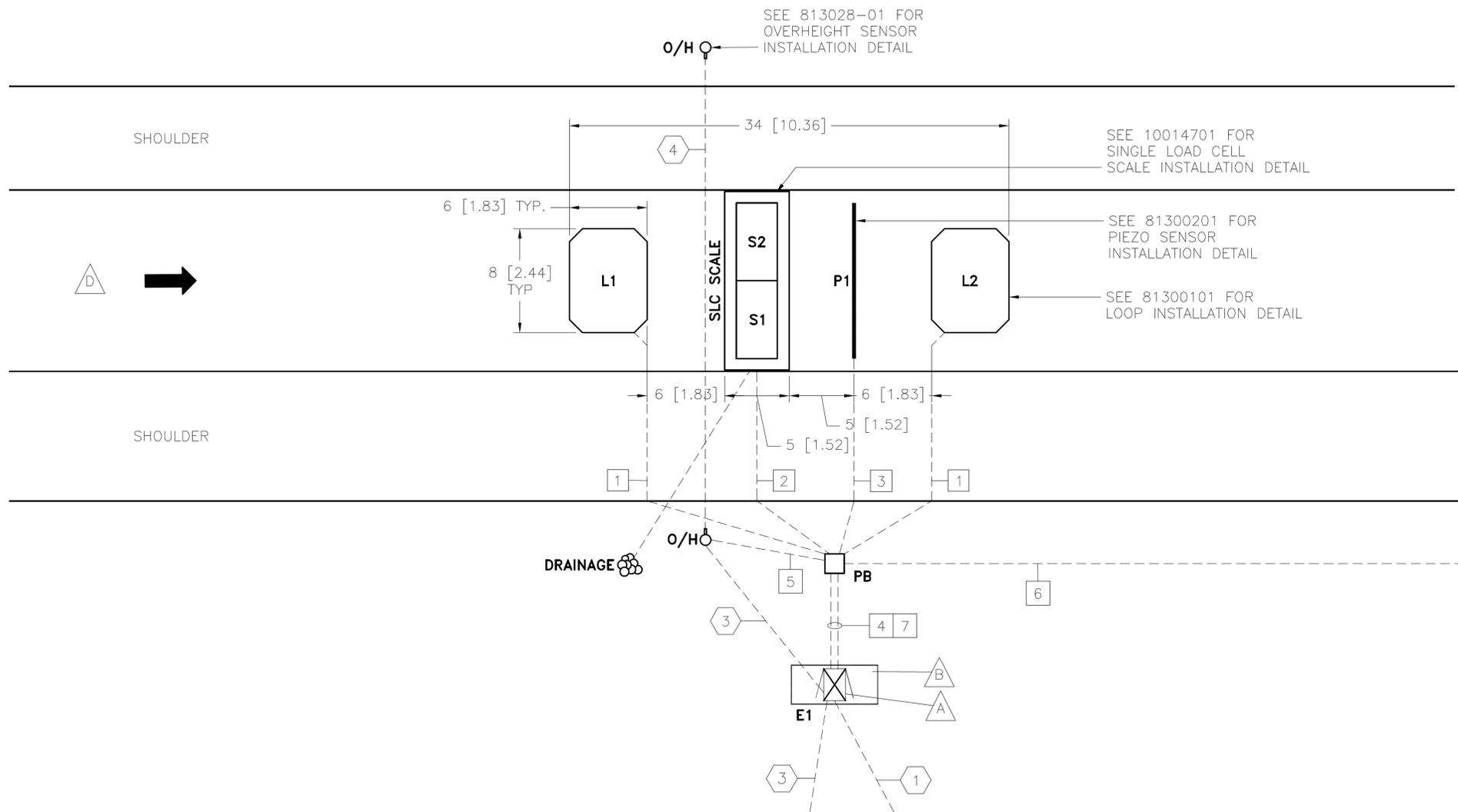
- ① E1 ENCLOSURE POWER (SEE DWG 81300907 FOR DETAIL)(EXISTING)
- ② 2" CONDUIT (EXISTING)
3-3C + GND 14AWG (LCS CONTROL)(EXISTING)
- ③ 2" CONDUIT (NEW)
2-2C + GND 0.6A (OVERHEIGHT POWER)(EXISTING)
- ④ 2" CONDUIT (NEW)
1-2C + GND 0.3A (OVERHEIGHT POWER)(EXISTING)

SIGNAL CONDUITS:

- ① 1" CONDUIT (NEW)
2-1C 14AWG (LOOP WIRE)(NEW)
- ② 2" CONDUIT (NEW)
2-3PR 20AWG (SLC LEAD)(NEW)
4-2C 18AWG (OFF-SCALE LEAD)(NEW)
- ③ 1" CONDUIT (NEW)
1-RG58 COAXIAL CABLE (PIEZO LEAD)(NEW)
- ④ 2" CONDUIT (NEW)
5-2C 14AWG (LOOP LEADS)(NEW)
1-RG58 COAXIAL CABLE (PIEZO LEAD)(NEW)
2-3PR 20AWG (SLC LEAD)(NEW)
4-2C 18AWG (OFF-SCALE LEAD)(NEW)
- ⑤ 2" CONDUIT (NEW)
1-2C 18AWG (OVERHEIGHT SIGNAL)(EXISTING)
- ⑥ 2" CONDUIT (EXISTING)
1-12 STRAND MULTIMODE FIBER OPTIC CABLE (EXISTING)
3-2C 14AWG (LOOP LEAD)(EXISTING)
- ⑦ 2" CONDUIT (NEW)
1-12 STRAND MULTIMODE FIBER OPTIC CABLE (EXISTING)
1-2C 18AWG (OVERHEIGHT SIGNAL)(EXISTING)

NOTES: (THIS SHEET ONLY)

- △ CABINET WITH WIM ELECTRONICS (SEE DWG 81300902, DWG 81300908, DWG 81300907 FOR DETAIL).
- △ CABINET BASE (MODIFY EXISTING).
- △ SITE CONDITIONS AS PER ASTM E'318-09.



REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
1	PRELIMINARY RELEASE	LPe/TDe	DPr	BKI	MAY25/16
2	PRELIMINARY RELEASE. REV 2.	LPe/TDe	DPr	BKI	JUN 16/16

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	INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA	
	DWG. TITLE: SITE LAYOUT RAMP SORTER SYSTEM ILLINOIS DOT - PEOTONE NB	
NOT TO SCALE	DWG. No. MILRSS01	REV.: 2
SIZE: B	CAD FILE: MILRSS01.DWG	SHEET 3 OF 3
DIMENSIONS IN: FEET [m]		

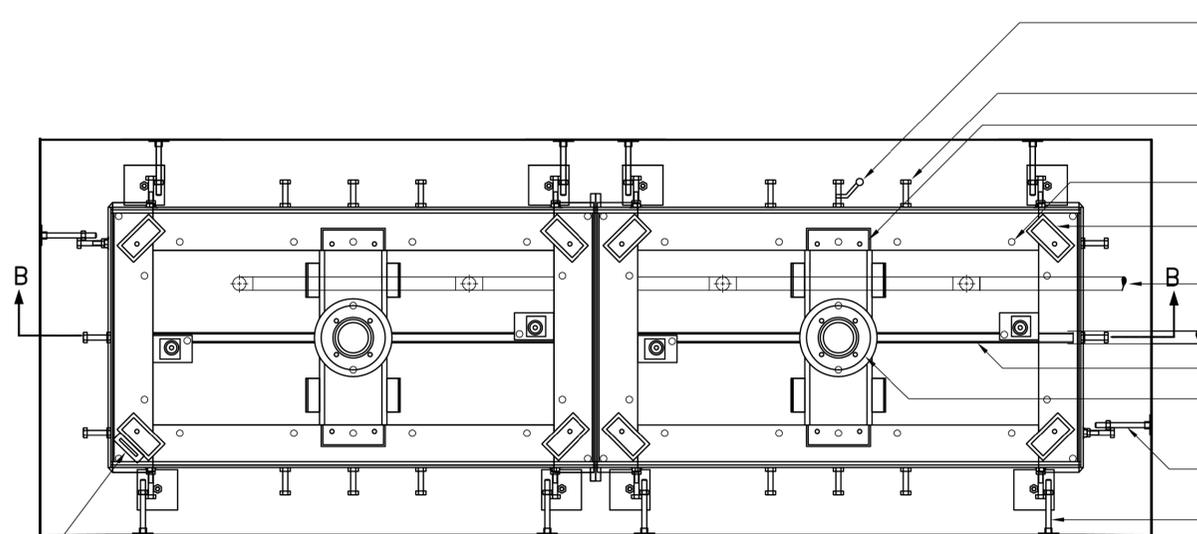
FILE NAME =	USER NAME = JWhite	DESIGNED - AWM	REVISED -
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PLOT SCALE = 1.00' / in.	CHECKED - AWM		REVISED -
PLOT DATE = 6/30/2016	DATE - 6/30/2016		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 57 (I-57) NORTHBOUND WEIGH STATION
WEIGH-IN-MOTION SCALE DETAILS**

SCALE: N/A SHEET NO. 3 OF 11 SHEETS STA. TO STA.

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-2I-7	WILL	20	10
CONTRACT NO. 62C87			ILLINOIS FED. AID PROJECT	



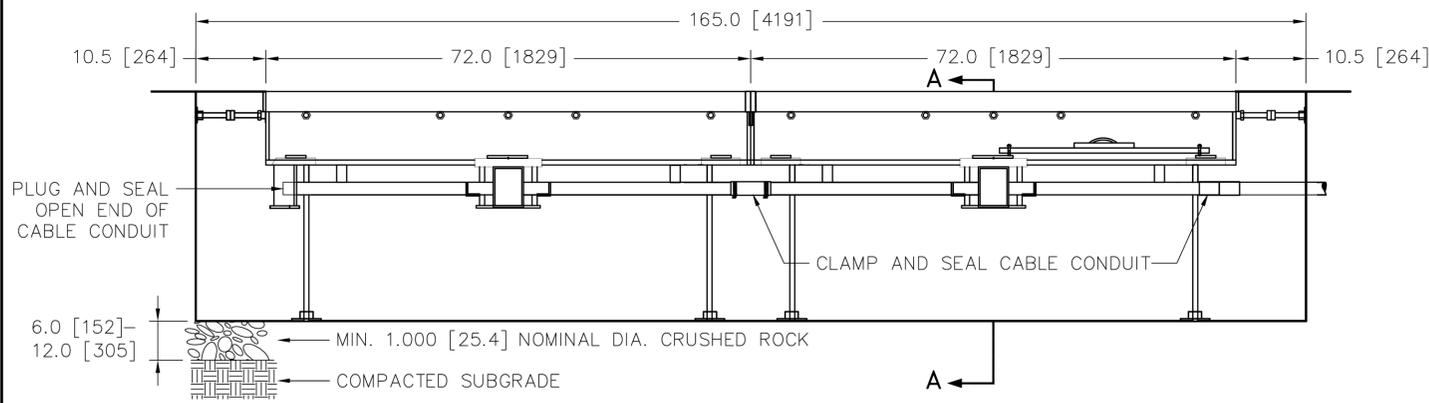
- GROUND ROD 4 PLCS (ONLY ONE SHOWN FOR CLARITY)
- ANCHOR BOLTS
- STAINLESS STEEL BEARING PADS 4 PLCS
- J-BARS 44 PLCS
- STAINLESS STEEL BEARING PADS 8 PLCS
- Ø1.5 [Ø38] ABS DRAINLINE MIN. 3% SLOPE (OMITTED ELSEWHERE FOR CLARITY)
- Ø2.0 [Ø50.8] CABLE CONDUIT
- STAINLESS STEEL BEARING PADS 2 PLCS
- HORIZONTAL JACKSCREW ASSEMBLY 2 PLCS
- HORIZONTAL-VERTICAL JACKSCREW ASSEMBLY 8 PLCS SEE DETAIL C

SUPPORT FOOT
8 PLCS (OMITTED ELSEWHERE FOR CLARITY)

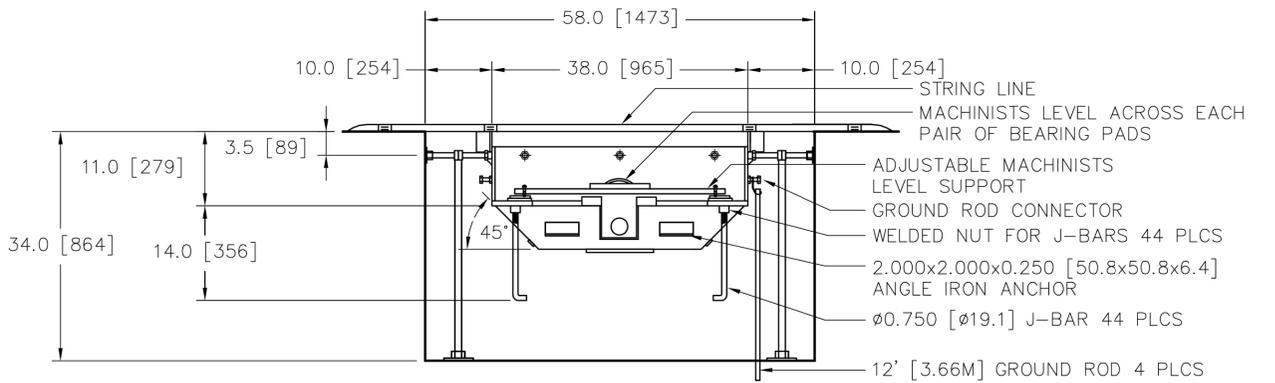
PLAN - SCALE FRAME

GENERAL INSTALLATION INSTRUCTIONS:

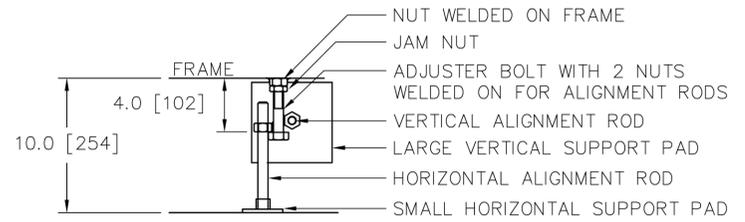
1. SHIPMENT INCLUDES: FRAMES, J-BARS, O-RINGS, GROUND ROD CONNECTORS, 2-10'[3658] LENGTHS OF DRAIN PIPE - 3 TEES AND 1 ELBOW, ALL NECESSARY CONCRETE ANCHOR BOLTS, JACK SCREWS, LOCATING SCREWS, SUPPORT PADS, CONDUIT CONNECTING HOSE AND CLAMPS, AND GROUND RODS.
2. INSTALL CONCRETE ANCHOR BOLTS, JACK SCREWS AND J-BARS ONTO SCALE FRAMES.
3. EXCAVATE SCALE VAULT TO DEPTH OF 40"[1016] AND COMPACT PIT BOTTOM.
4. PLACE 6"[152.4] OF 1"[25.4] NOMINAL CRUSHED ROCK AND VIBRATE COMPACT.
5. SET FRAME IN PREPARED PIT WITH NECESSARY REBAR CAGE IN PLACE.
6. 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.
7. USE JACK SCREWS TO POSITION FRAME PROPERLY - HORIZONTALLY AND VERTICALLY.
8. INSTALL GROUND CLAMPS AND GROUND RODS.
9. LOCATE THE EDGE OF THE SCALE FRAME FLUSH WITH THE SURROUNDING ROAD SURFACE USING A STRING LINE FROM THE ROADWAY ACROSS THE CORNERS OF THE SCALE FRAME.
10. FINAL SET OF THE SCALE USING A MACHINISTS LEVEL MOUNTED ON AN ADJUSTABLE SUPPORT, SPANNING ACROSS ADJACENT SCALE BEARING PADS TO ENSURE THAT ALL FRAME EDGES ARE PARALLEL AND THERE IS NO TWIST IN THE SCALE FRAME.
11. WET PIT WALLS.
12. POUR AND VIBRATE CONCRETE AROUND FRAME. CONCRETE SHOULD HAVE MAX. SLUMP OF 3"[76.2].
13. SLOPE AND FINISH PIT SURFACE AND SCALE FRAME FLOOR FOR PROPER DRAINAGE TO DRAINPIPE INLET.
14. 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



**PLAN OF FRAME ALIGNMENT
JACK SCREWS - DETAIL C**

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	JUN 28/05

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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.



**INTERNATIONAL ROAD DYNAMICS INC.
SASKATOON SASKATCHEWAN CANADA**

DWG. TITLE:
**INSTALLATION
SINGLE LOAD CELL SCALE
SCALE FRAME DETAIL**

NOT TO SCALE

SIZE: B

DIMENSIONS IN: INCHES[MM]

DWG. No. **10014701** REV.: D

CAD FILE: 10014701.DWG SHEET 1 OF 2

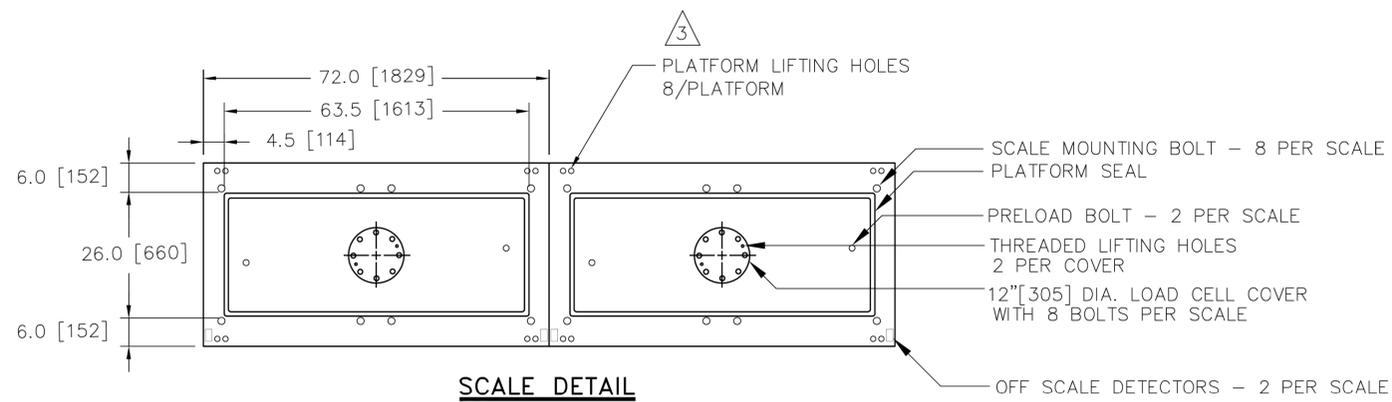
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PLOT SCALE = 1.00' / 1in.	CHECKED - AWM	AWM	REVISED -
PLOT DATE = 6/30/2016	DATE - 6/30/2016	AWM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI 57 (I-57) NORTHBOUND WEIGH STATION
WEIGH-IN-MOTION SCALE DETAILS**

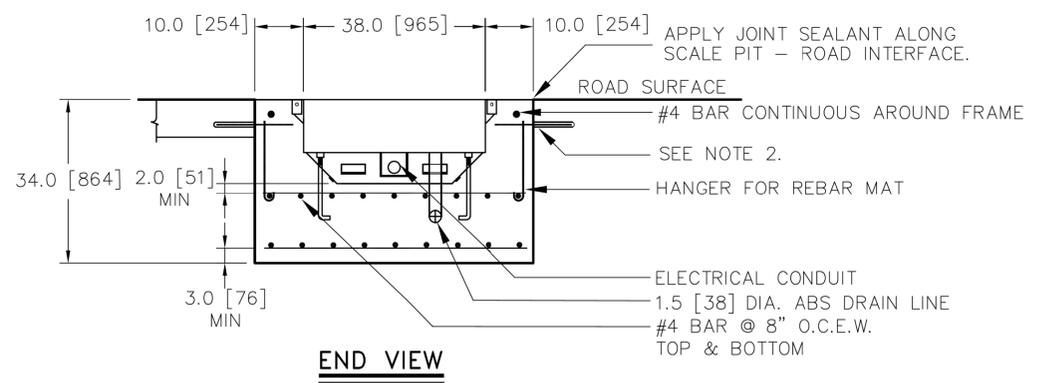
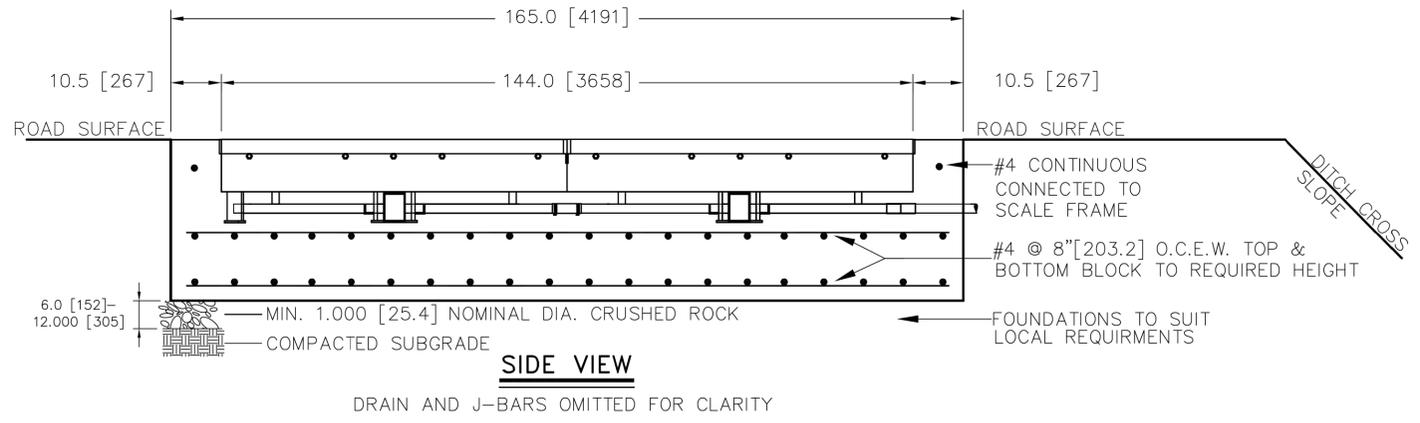
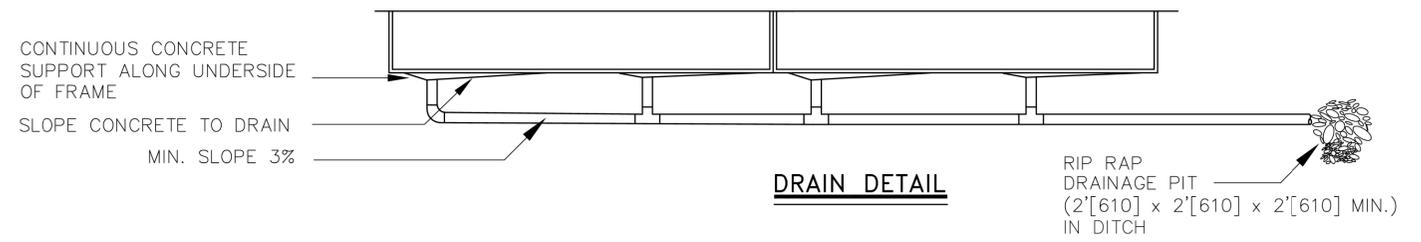
SCALE: N/A SHEET NO. 4 OF 11 SHEETS STA. TO STA.

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-2I-7	WILL	20	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C87	



NOTES:

1. REINFORCEMENTS AND DOWELS AS SHOWN ARE MINIMUM REQUIREMENTS AND MAY BE SUPERCEDED BY STATE CONSTRUCTION CODES.
 2. FOR PCC PAVEMENTS INSTALL 1-1/8" [28.5] Ø x 16" [406] EPOXY COATED DOWELS IN 1-1/4" [19] Ø x 8" [203] DEEP HOLE @ 16" [406] O.C. SECURE DOWEL INTO HOLE WITH EPOXY. ENSURE DOWELS ARE EXACTLY 90° TO LONGITUDINAL PAVEMENT DIRECTION BOTH VERTICALLY AND HORIZONTALLY.
- SEE 69028801 FOR LIFTING PROCEDURE.



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	JUN 28/05

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INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA

DWG. TITLE: **INSTALLATION SINGLE LOAD CELL SCALE SCALE FRAME DETAIL**

NOT TO SCALE

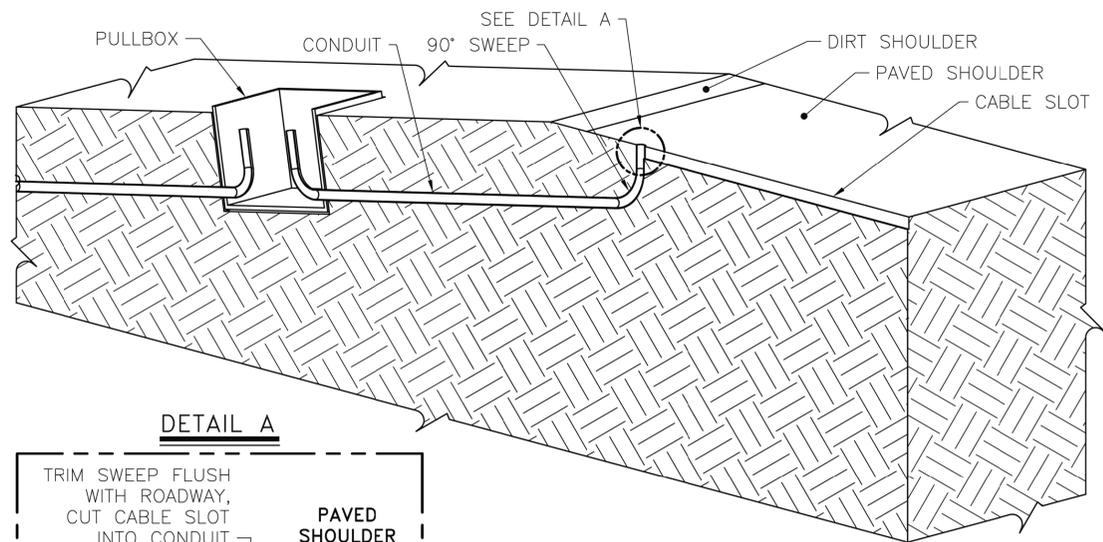
SIZE: B

DIMENSIONS IN: INCHES[MM]

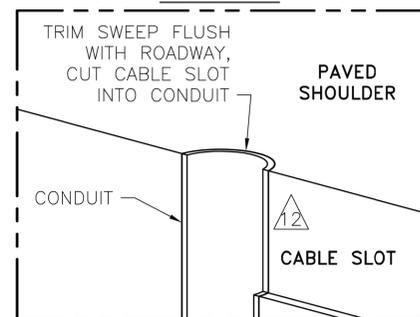
DWG. No. **10014701** REV.: D

CAD FILE: 10014701.DWG SHEET 2 OF 2

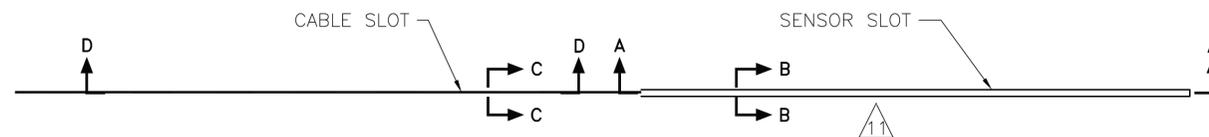
SECTION D-D (CABLE ROUTING DETAILS)



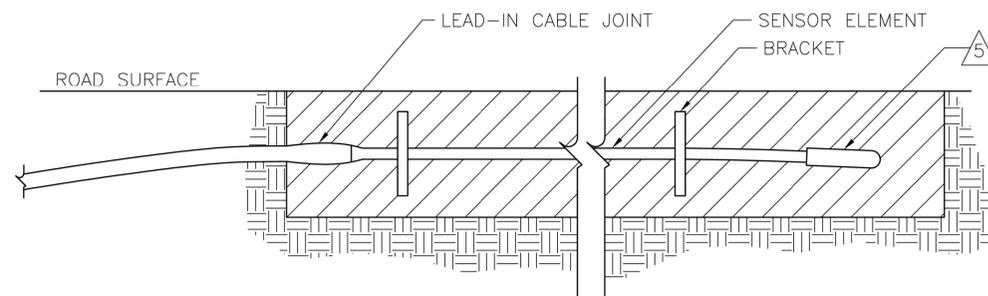
DETAIL A



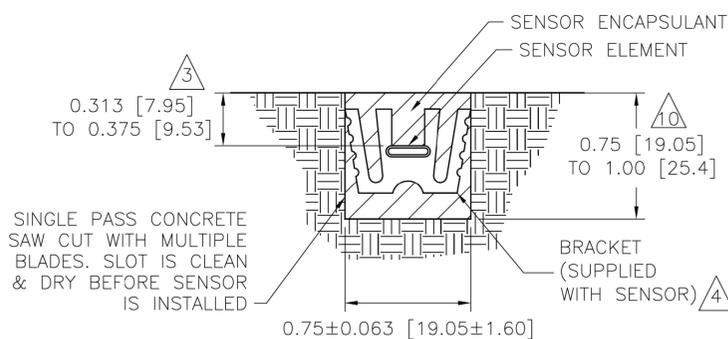
PLAN VIEW - SENSOR INSTALLATION



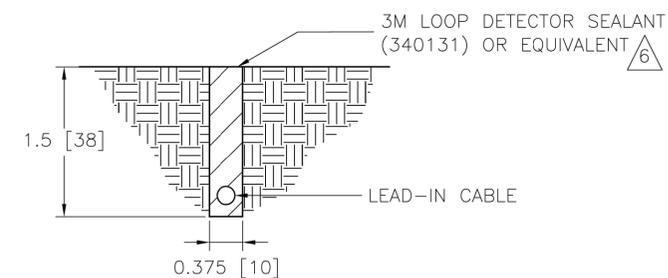
SECTION A-A



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

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PLOT SCALE = 1.00' / in.		DATE - 6/30/2016	REVISED -
PLOT DATE = 6/30/2016			

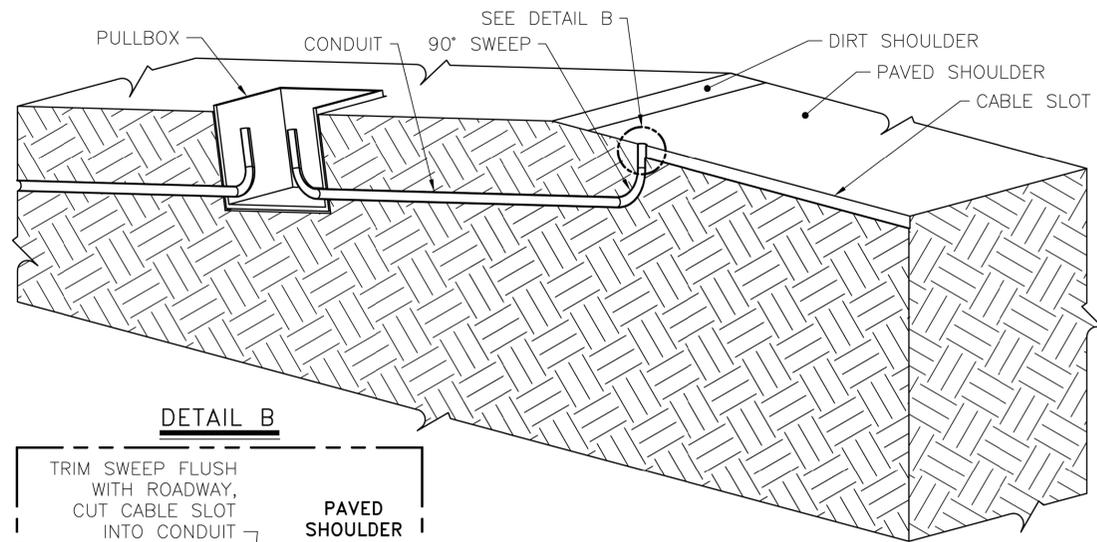
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

FAI 57 (I-57) NORTHBOUND WEIGH STATION WEIGH-IN-MOTION SCALE DETAILS

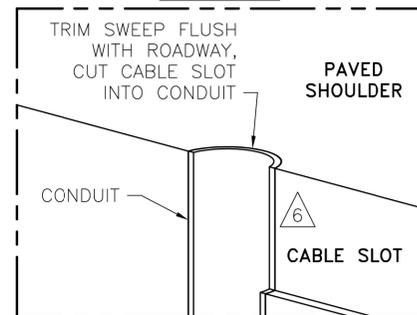
SCALE: N/A SHEET NO. 6 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-2I-7	WILL	20	13
CONTRACT NO. 62C87			ILLINOIS FED. AID PROJECT	

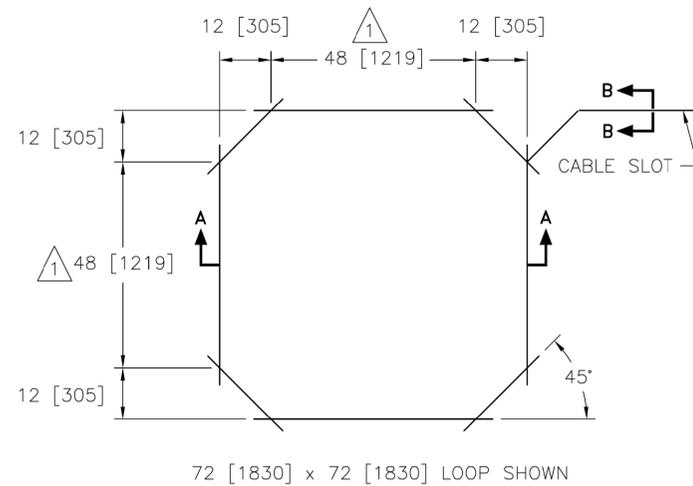
CABLE ROUTING DETAILS



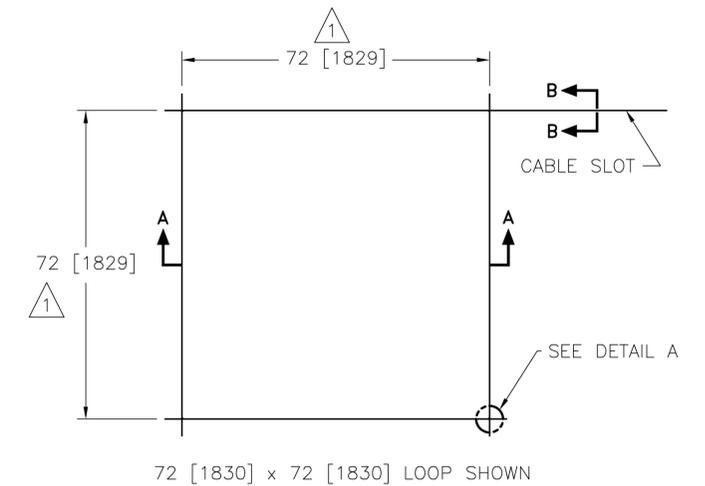
DETAIL B



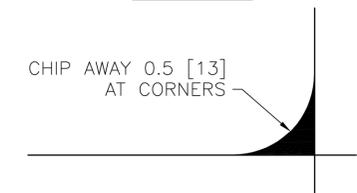
OCTAGON LOOP DIMENSION DETAIL



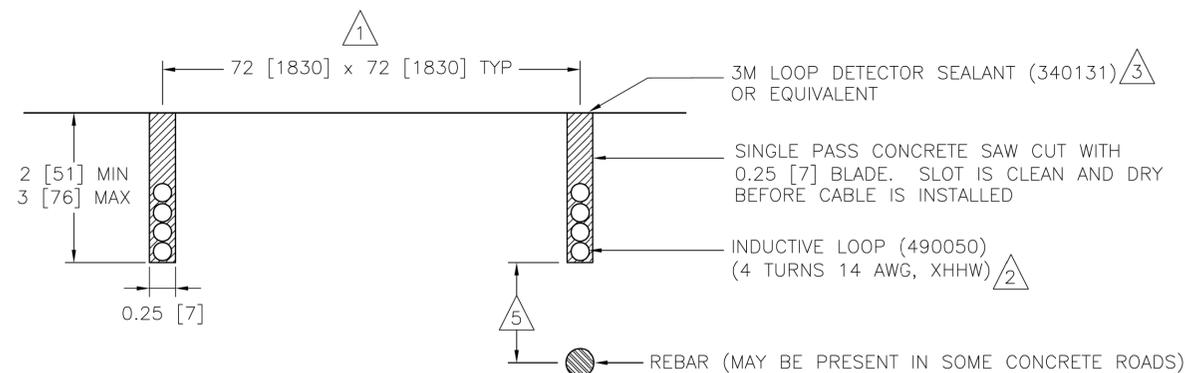
SQUARE LOOP DIMENSION DETAIL



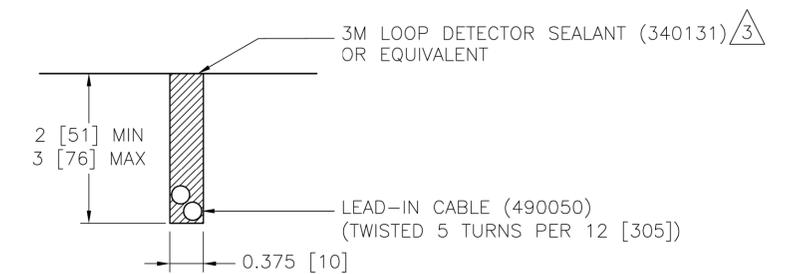
DETAIL A



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
690289 - PERMANENT SQUARE 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.

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

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INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA

DWG. TITLE: **INSTALLATION XHHW VEHICLE DETECTION LOOPS**

NOT TO SCALE

SIZE: B

DIMENSIONS IN: INCHES [mm]

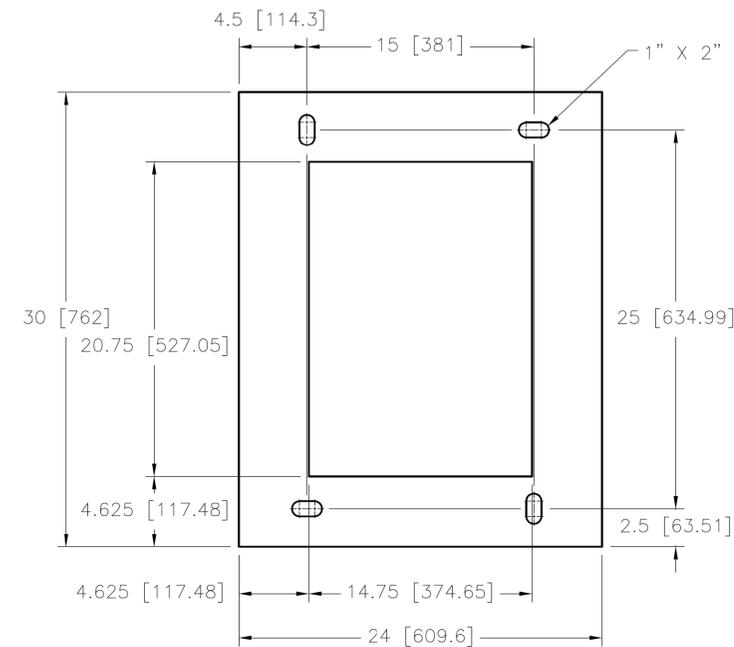
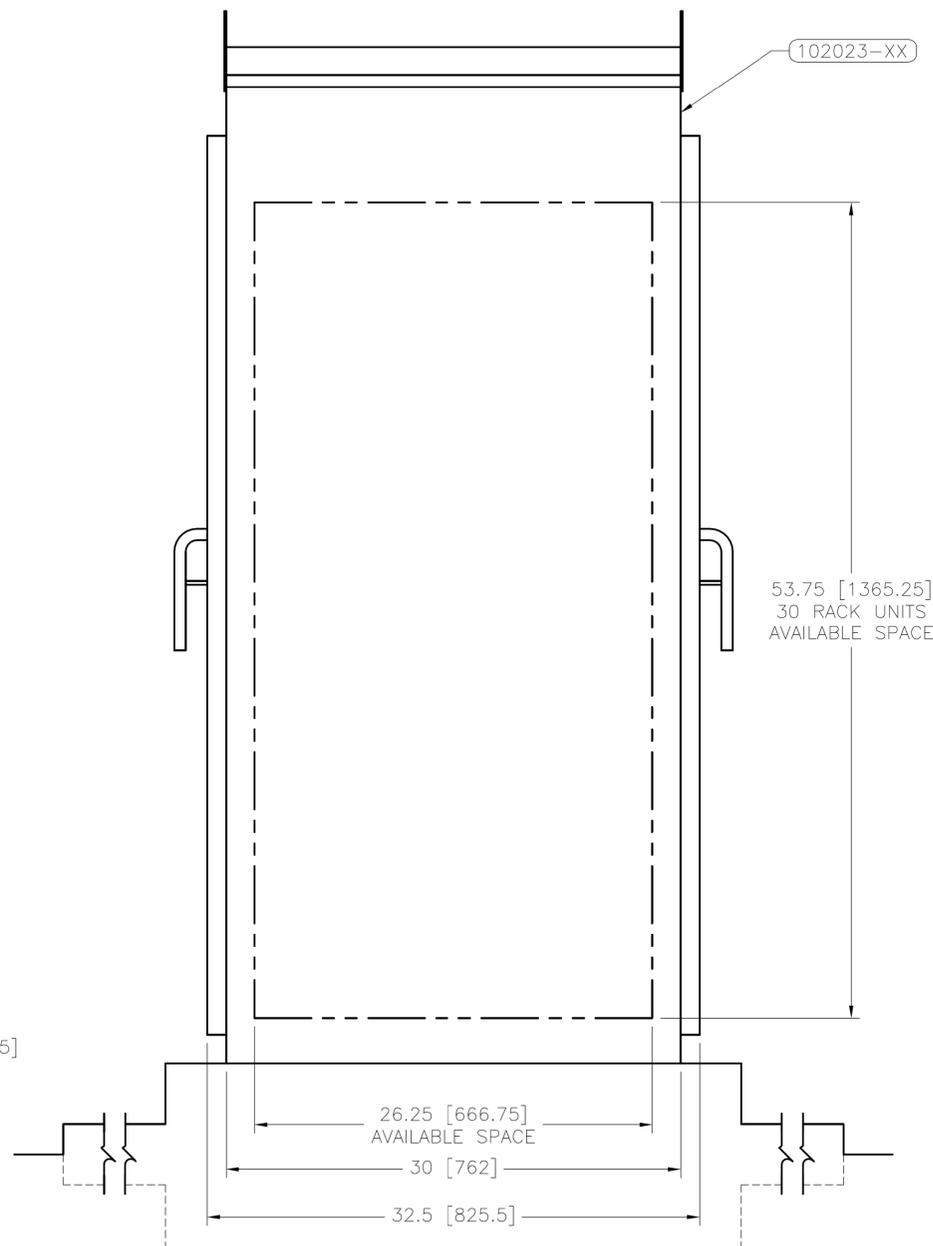
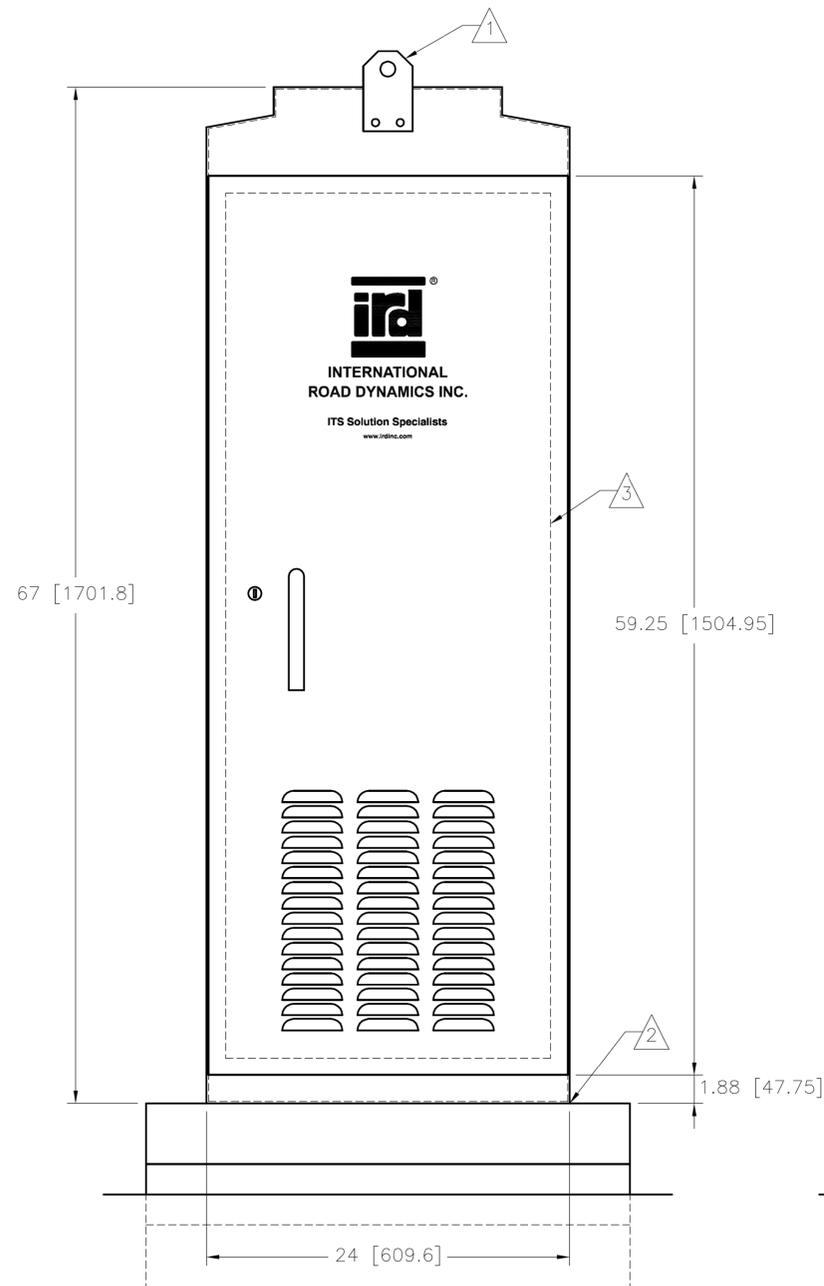
DWG. No. **81300101** REV.: D

CAD FILE: 81300101.DWG SHEET 1 OF 1

FRONT VIEW

SIDE VIEW

PAD MOUNTING PATTERN

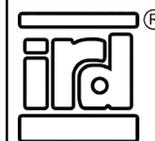


NOTES:

- 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.
- 4 PROVIDE CONCRETE STEPS UNDER EVERY CABINET DOOR FOR ACCESS.

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

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

INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA

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

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

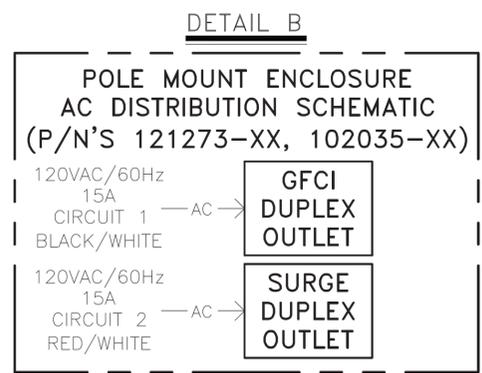
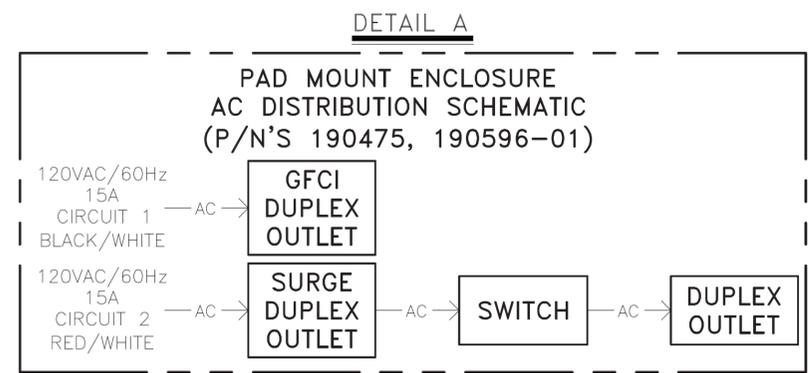
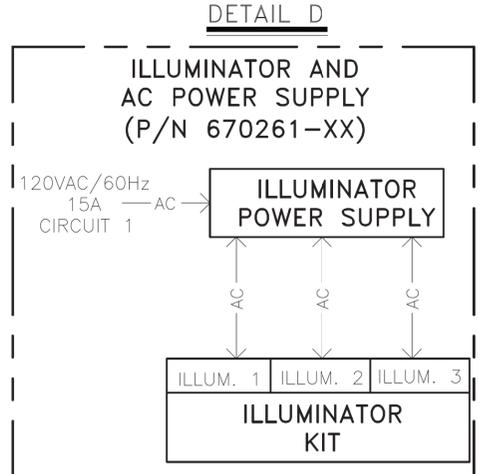
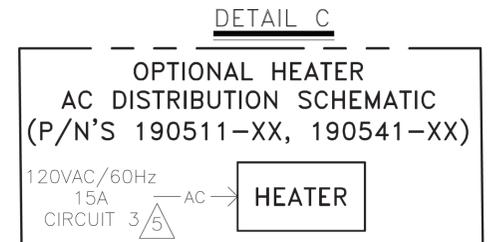
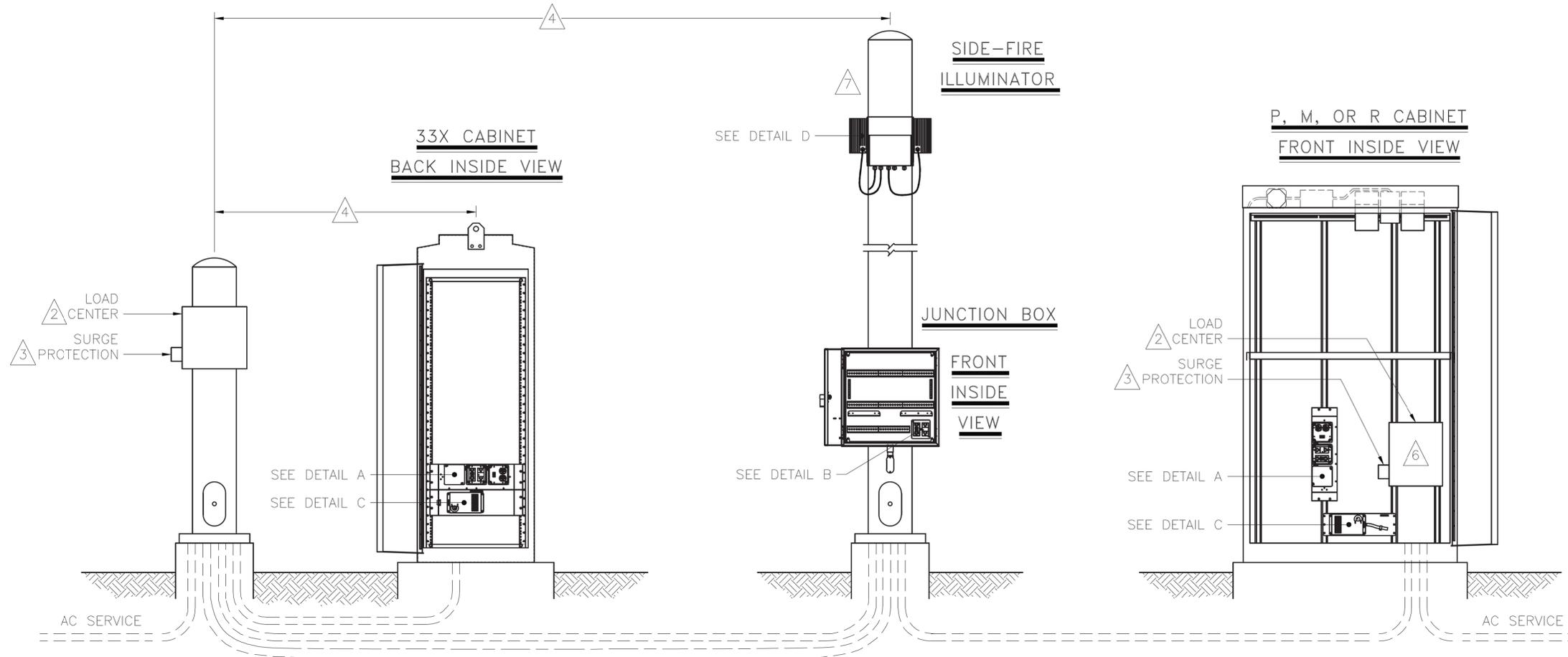
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PLOT SCALE = 1.00' / in.	DATE - 6/30/2016	DATE - 6/30/2016	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

FAI 57 (I-57) NORTHBOUND WEIGH STATION WEIGH-IN-MOTION SCALE DETAILS

SCALE: N/A SHEET NO. 8 OF 11 SHEETS STA. TO STA.

F.A.I. RTE 57	SECTION 99-2I-7	COUNTY WILL	TOTAL SHEETS 20	SHEET NO. 15
CONTRACT NO. 62C87			ILLINOIS FED. AID PROJECT	

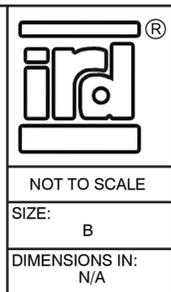


- NOTES:**
- ALL ELECTRICAL DEVICES, GROUNDING, BONDING, WIRING AND MOUNTING MUST MEET THE CANADIAN ELECTRICAL CODE PART I AND/OR NATIONAL ELECTRICAL CODE NFPA70 AND LOCAL ELECTRICAL CODE.
 - PROVIDE SUITABLE INDOOR OR OUTDOOR LOAD CENTER. IRD RECOMMENDS FOR CSA USE SQUARE D P/N CQ018M100RB60 OR P/N Q02L70RB, FOR UL USE P/N Q0112M100RB OR P/N Q024L70RB OR EQUIVALENT.
 - EQUIPMENT MUST BE PROTECTED WITH AN ANSI/IEEE C62.41 CATEGORY C RATED PROTECTION DEVICE WITH A MINIMUM PEAK CURRENT HANDLING CAPABILITY OF 36KA (8/20 μ S) INSTALLED AT THE LOAD CENTER OR SUB LOAD CENTER.
 - 30m MAXIMUM CABLE LENGTH BETWEEN CATEGORY C PROTECTOR AND ENCLOSURE(S).
 - CIRCUIT 3 OPTIONAL DEPENDING ON PRESENCE OF HEATER.
 - LOAD CENTER MAY BE LOCATED INSIDE ENCLOSURE WHERE SPACE PERMITS.
 - 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

CONFIDENTIAL

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INTERNATIONAL ROAD DYNAMICS INC.
SASKATOON SASKATCHEWAN CANADA

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

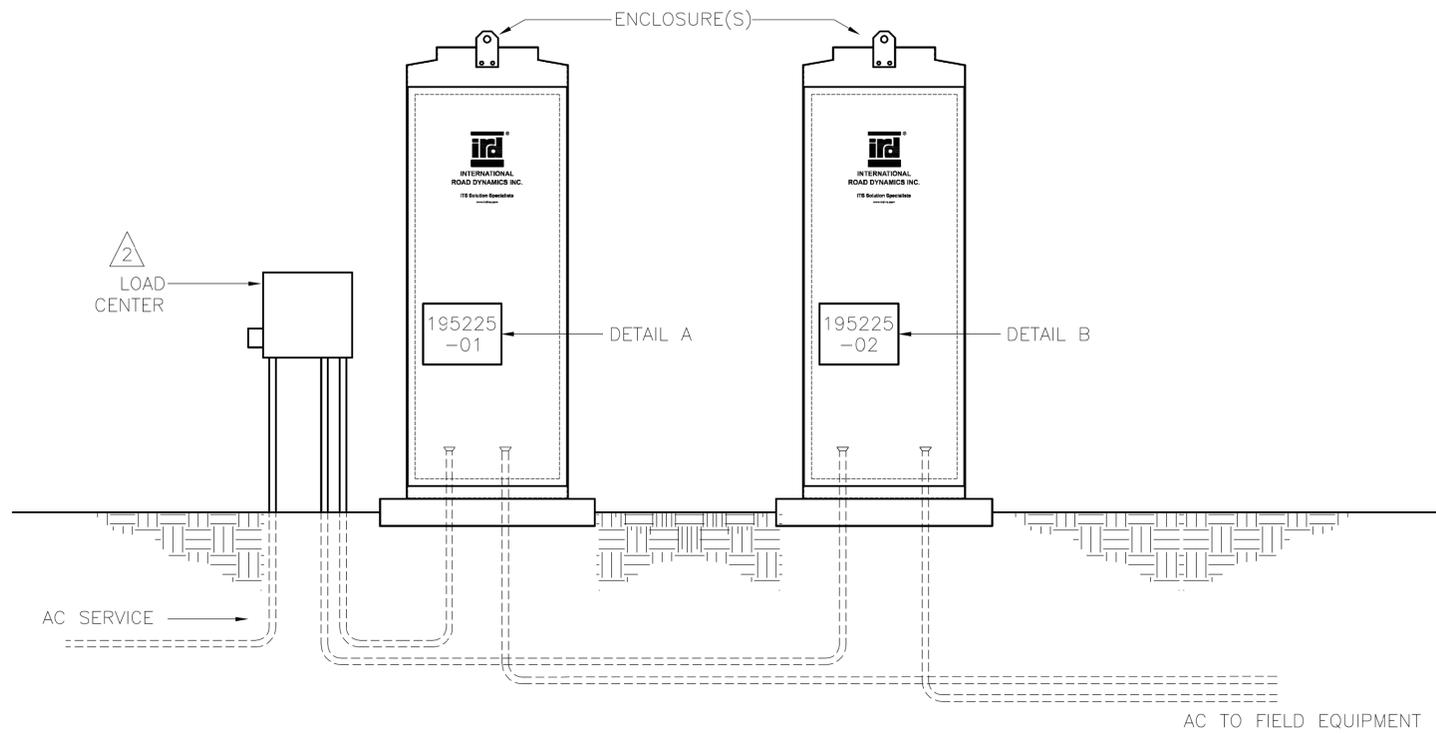
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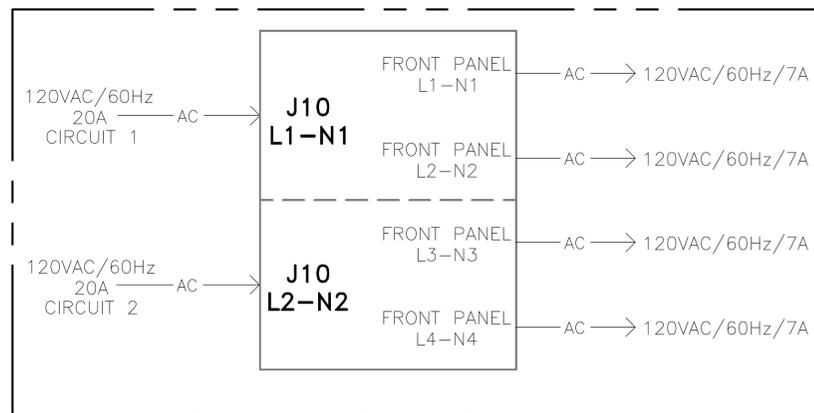
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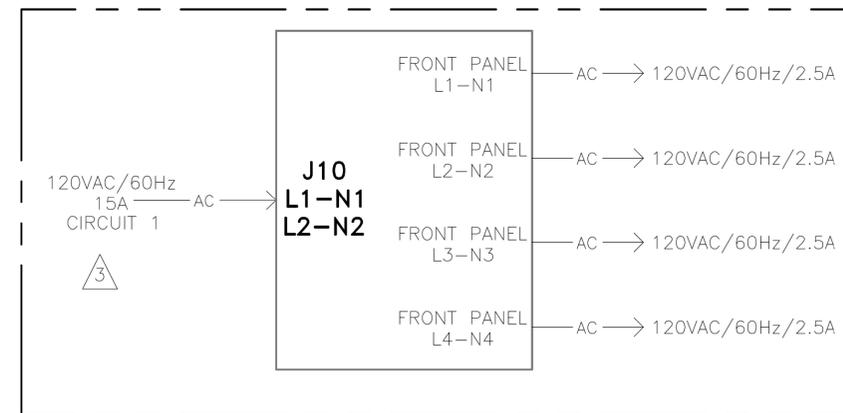
CAD FILE: 81300907.DWG SHEET 1 OF 1



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	SS/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.	SS/BMc	MLo	MGa	OCT 26/07

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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	SHEET 1 OF 1
DIMENSIONS IN: N/A		

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PLOT SCALE = 1.00' / in.	DATE - 6/30/2016	DATE - 6/30/2016	REVISED -

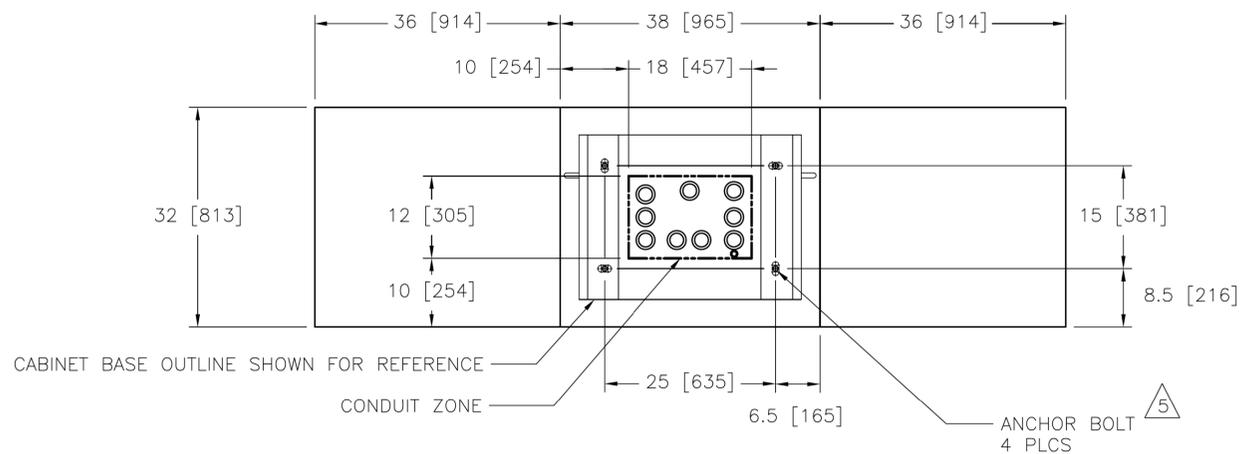
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAI 57 (I-57) NORTHBOUND WEIGH STATION
 WEIGH-IN-MOTION SCALE DETAILS**

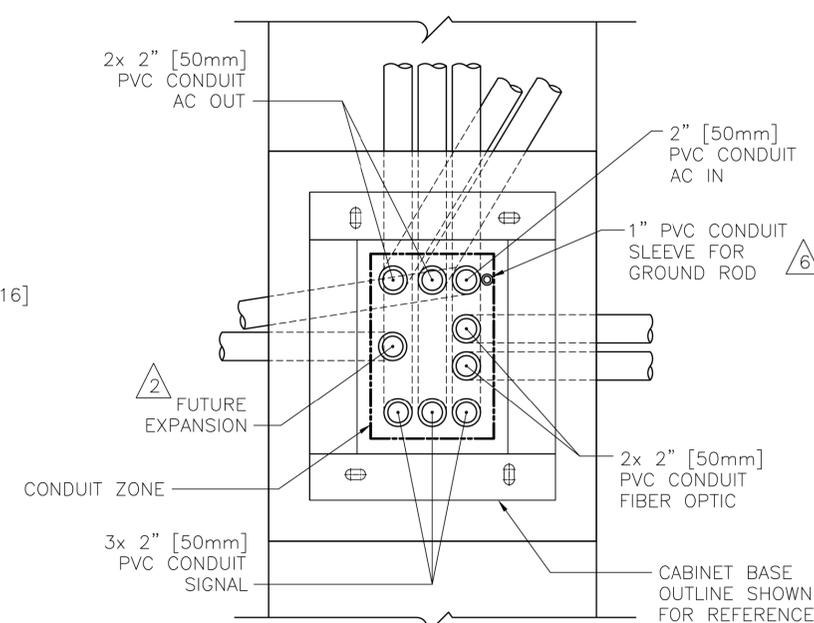
SCALE: N/A SHEET NO. 10 OF 11 SHEETS STA. TO STA.

F.A.I. RTE. 57	SECTION 99-2I-7	COUNTY WILL	TOTAL SHEETS 20	SHEET NO. 17
CONTRACT NO. 62C87			ILLINOIS FED. AID PROJECT	

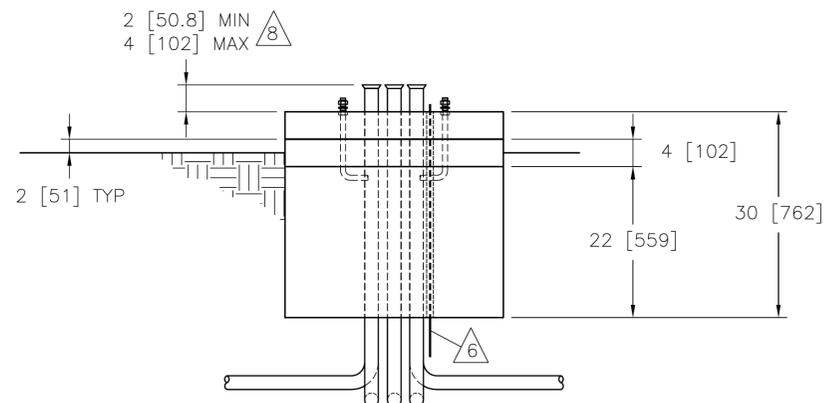
TOP VIEW – CABINET MOUNTING



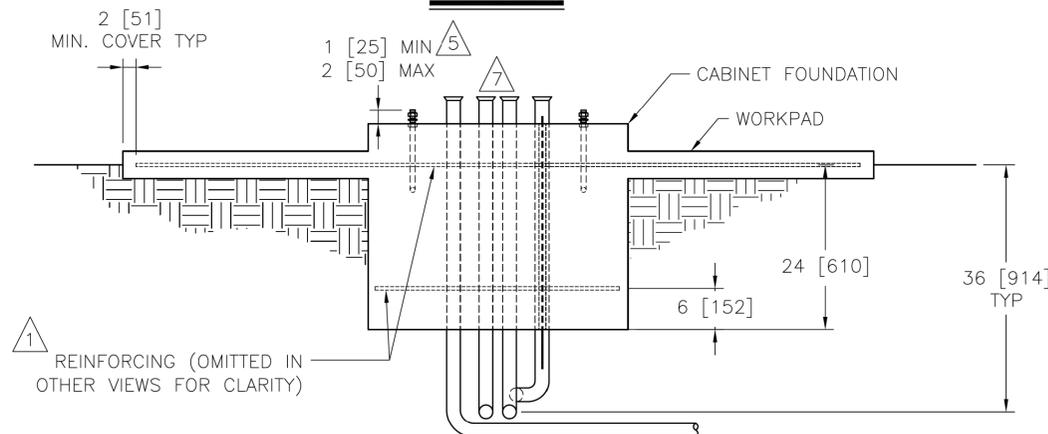
DETAIL A – MINIMUM CONDUITS



FRONT VIEW



SIDE VIEW



NOTES:

- 1 INSTALL REINFORCING MATS. #4 [12M] BAR 12" [300mm] ON CENTER EACH WAY. EPOXY COAT OR GALVANIZE. REINFORCEMENTS ARE MINIMUM REQUIREMENTS AND MAY BE SUPERSEDED BY LOCAL CONSTRUCTION CODES.
- 2 SPARE CONDUIT MUST BE CAPPED, STUBBED 24" [600mm] PAST FOUNDATION, AND LABELED.
- 3 ALL CONDUITS SHOWN SHALL BE FURNISHED AND INSTALLED IN FOUNDATION IN ACCORDANCE WITH LOCAL CODES. CAP IF NOT USED. ADDITIONAL CONDUITS MAY BE REQUIRED. CONDUITS SHALL EXIT FOUNDATION IN DIRECTION APPROPRIATE FOR SITE GEOMETRY.
- 4 CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 3000 PSI [20.7 MPa] MINIMUM.
- 5 CABINET ANCHORS MUST BE GALVANIZED OR STAINLESS STEEL AND MAY BE CAST IN PLACE, CHEMICAL OR EXPANSION TYPE DRILLED INTO BASE. TYPICAL SIZE IS 3/4" NC x 12" x 4".
- 6 GROUND ROD MUST BE PROVIDED TO MEET LOCAL ELECTRICAL CODE.
- 7 SEAL ALL CONDUIT ENDS WITH STEEL WOOL AND DUCT SEAL TO REDUCE RODENT OR INSECT INTRUSION AND MOISTURE. DO NOT USE PERMANENT SEALANT AS CONDUITS MAY NEED TO BE REENTERED IN THE FUTURE FOR CABLE REPLACEMENT OR ADDITIONS.

NOTES: (CONTINUED)

- 8 THE CABINET BASE CONDUIT MUST BE HIGHER THAN SURROUNDING PULL BOXES. THE HEIGHT OF CONDUITS ENDING IN THE CABINET MUST BE HIGHER THAN THE OTHER END TO PREVENT WATER ENTRY DUE TO HYDROSTATIC PRESSURE. ALL CONDUITS SHALL HAVE END BELLS INSTALLED OR NO SHARP EDGES.

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

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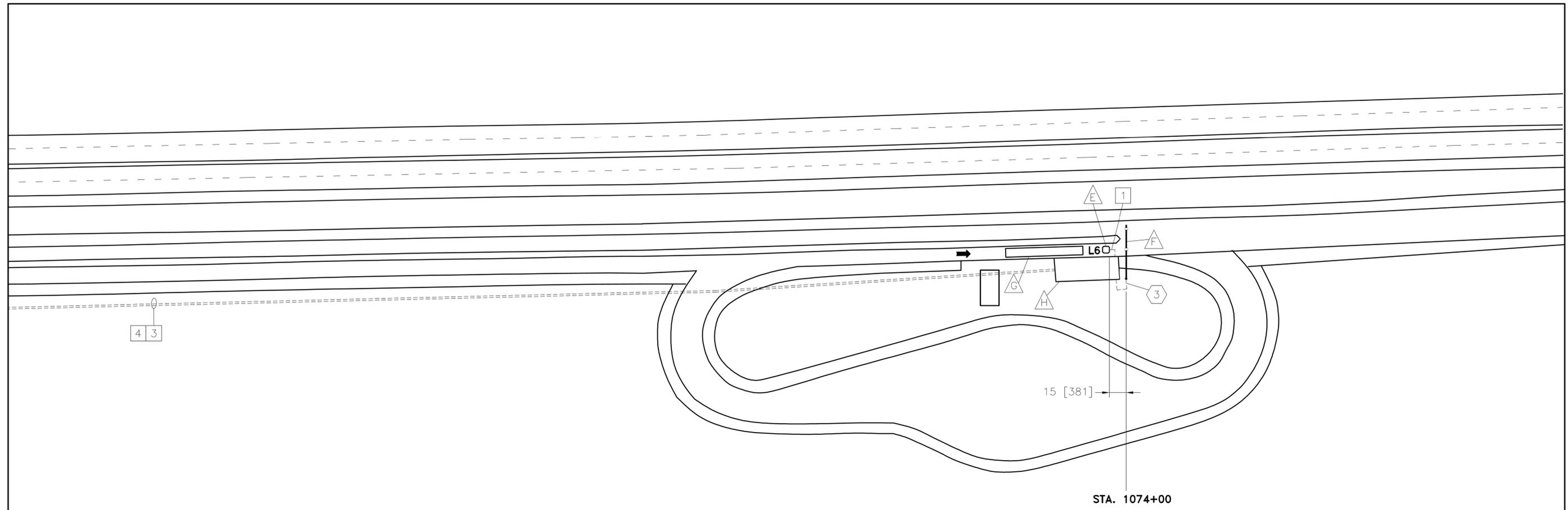
NOT TO SCALE
SIZE: B
DIMENSIONS IN: INCHES [mm]

INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA

DWG. TITLE: **CABINET FOUNDATION 334 SERIES ICNT ROADSIDE ELECTRONICS**

DWG. No. **81300905** REV.: **A**

CAD FILE: **81300905.DWG** SHEET **1** OF **1**

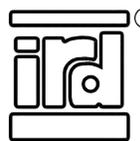


NOTES:

- A** WEIGH-IN-MOTION (WIM) & SINGLE LOAD CELL SCALES AND ASSOCIATED SENSORS - (NEW).
- B** WIM CONTROLLER CABINET AND ELECTRONICS - NEW (SEE GENERAL NOTES FOR WIM CABINET & POWER REQUIREMENTS).
- C** WIM INDUCTIVE LOOP - (EXISTING).
- D** LANE CONTROL SIGNAL (LCS 1), MAST ARM, CONDUIT AND CABLING TO WIM CABINET - EXISTING/REUSE.
- E** WIM INDUCTIVE LOOP - (EXISTING).
- F** TRAFFIC SIGNAL (TS), CONDUIT AND CABLING TO SCALE HOUSE - (EXISTING/REUSE).
- G** STATIC SCALE - EXISTING/REUSE.
- H** WEIGH STATION EQUIPMENT: WORKSTATION, MONITORS, STATION iSINC RACK, AND MANUAL CONSOLE - INSTALL NEW.
- I** LANE CONTROL SIGNAL (LCS 2), SUPPORT STRUCTURE, CONDUIT AND CABLING TO WIM CABINET - EXISTING/REUSE.

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
1	PRELIMINARY RELEASE	LPe/TDe	DPr	BK1	MAY25/16
2	PRELIMINARY RELEASE. REV 2	LPe/TDe	DPr	BK1	JUN 16/16

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

INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA

DWG. TITLE: **SITE LAYOUT RAMP SORTER SYSTEM ILLINOIS DOT - PEOTONE NB**

DWG. No. **MILRSS01** REV.: **2**

CAD FILE: **MILRSS01.DWG** SHEET **2** OF **3**

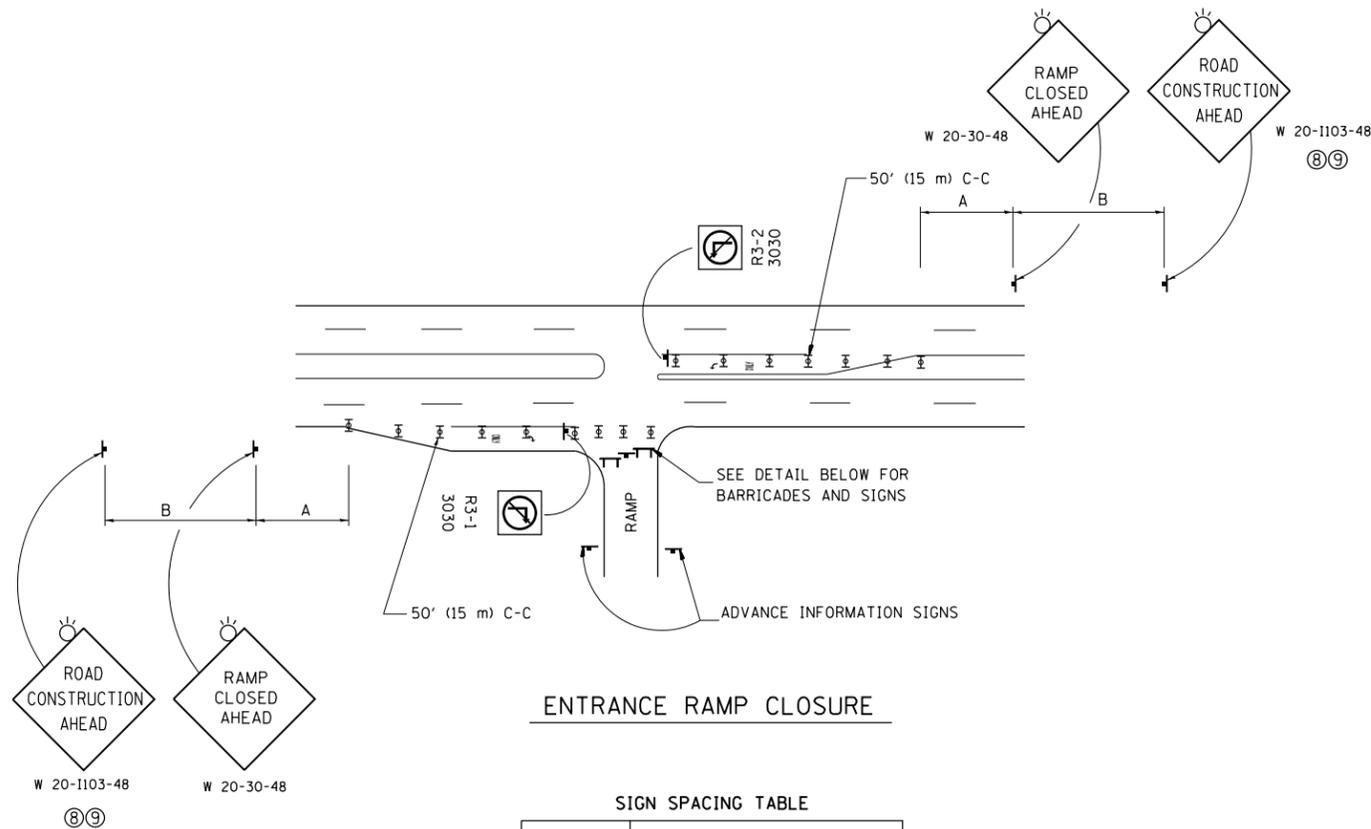
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Weight Station N of Peotone\CADD Sheets\0162	DRAWN details.dgn JCW	CHECKED - AWM	REVISED -
PLOT SCALE = 1.00' / 1in.	DATE - 6/30/2016		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAI 57 (I-57) NORTHBOUND WEIGH STATION
 WEIGH-IN-MOTION SCALE DETAILS**

SCALE: N/A SHEET NO. 2 OF 11 SHEETS STA. TO STA.

F.A.I. RTE 57	SECTION 99-2I-7	COUNTY WILL	TOTAL SHEETS 20	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C87	

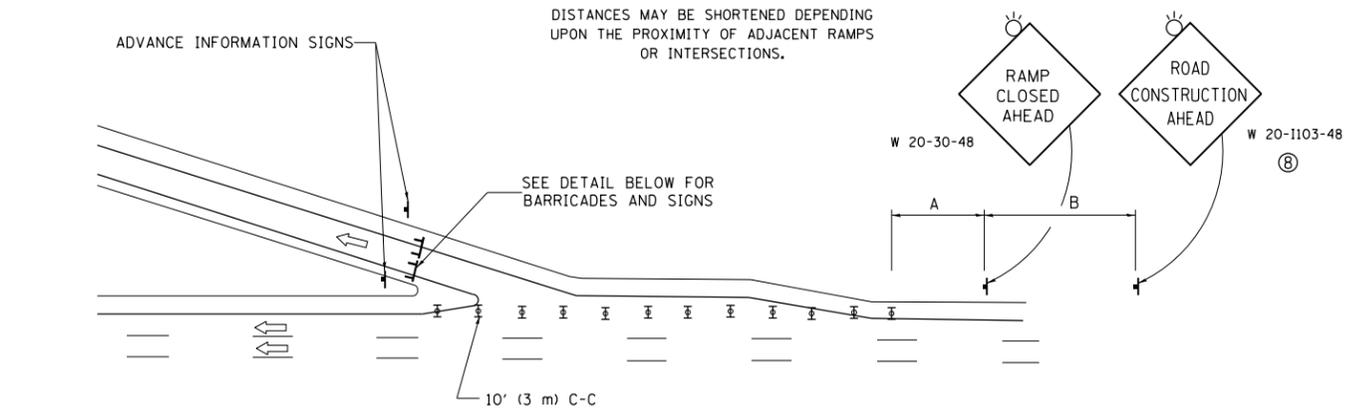


ENTRANCE RAMP CLOSURE

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)

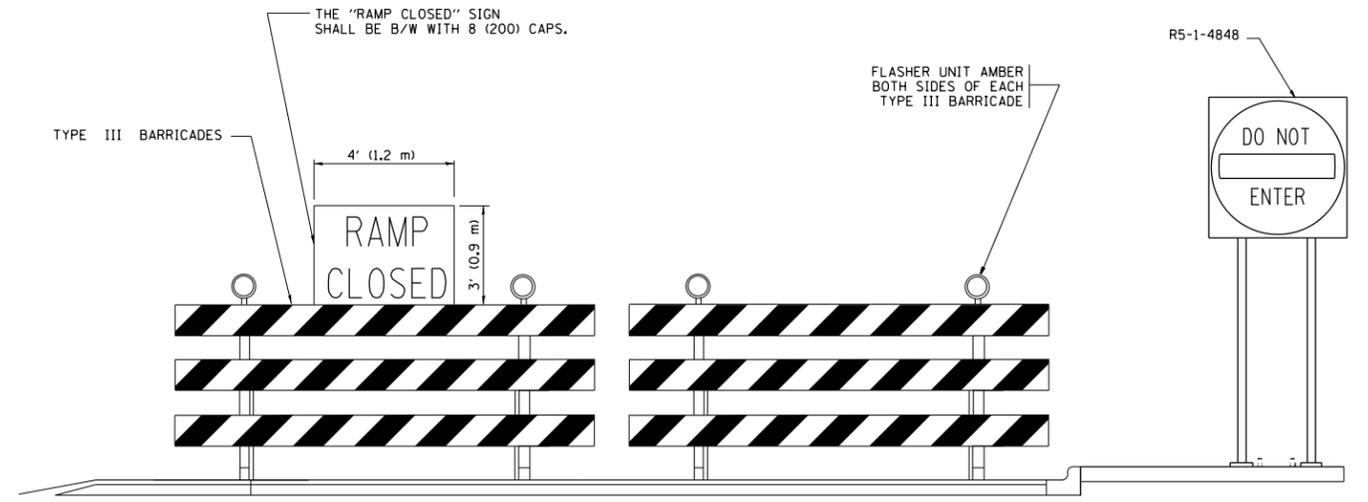
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

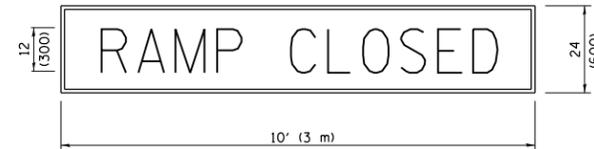
SYMBOLS

- ⊥ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊓ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

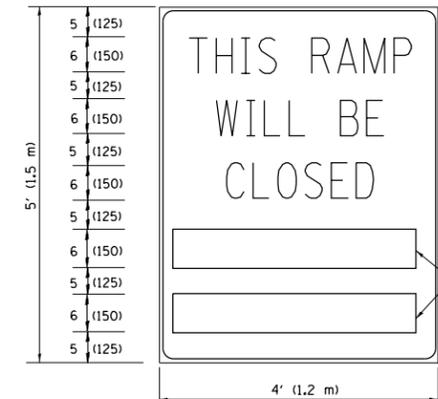
RAMP CLOSURE ADVANCE WARNING SIGN



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 STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 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.

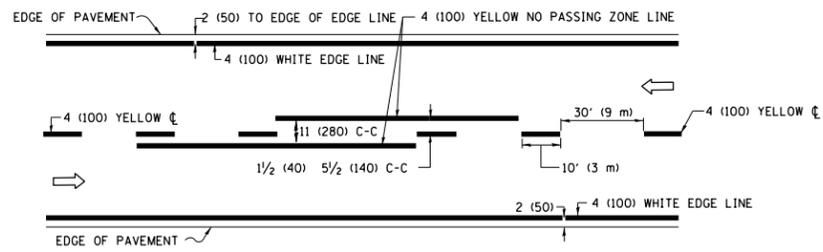
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		DATE - 02-83	REVISED - MD 06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

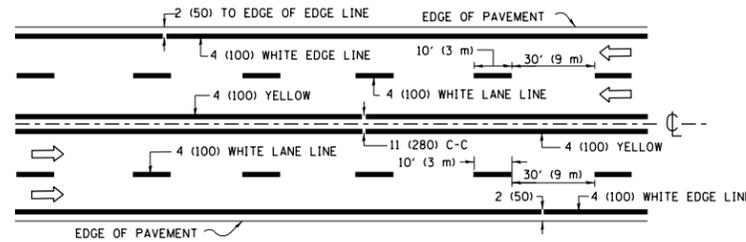
**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

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

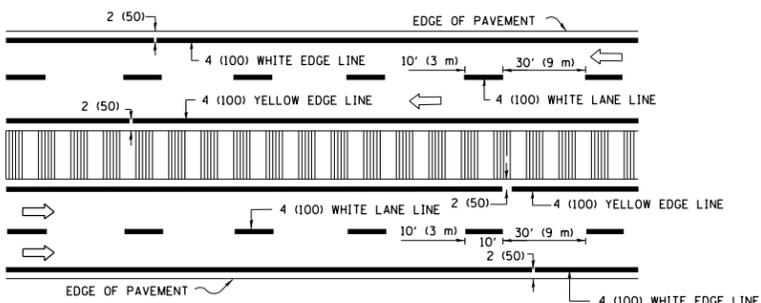
F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-21-7	WILL	20	18A
TC-08		CONTRACT NO. 62C87		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

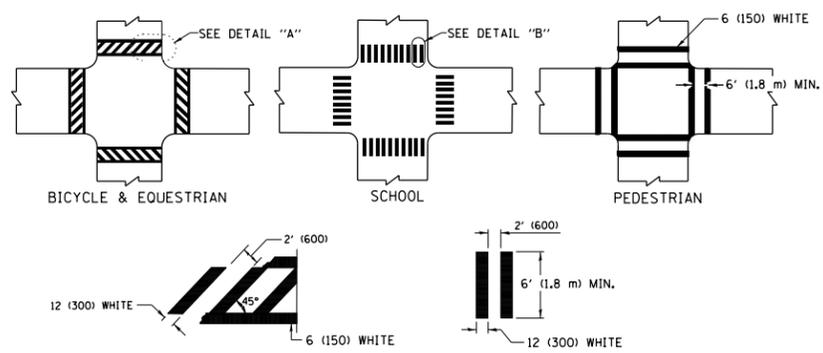


MULTI-LANE UNDIVIDED



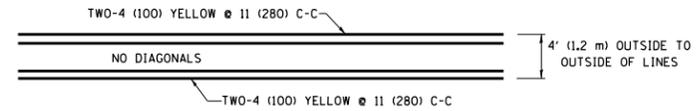
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

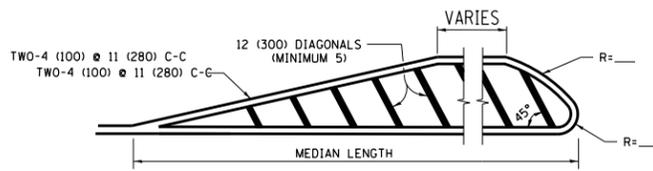


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

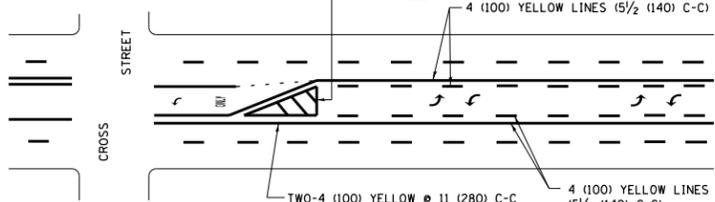


4' (1.2 m) WIDE MEDIANS ONLY



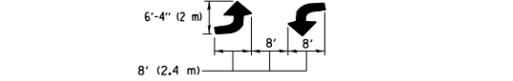
MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



**MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING**

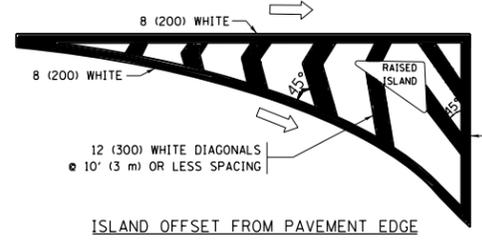
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



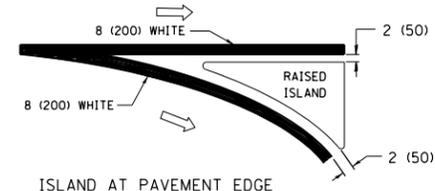
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

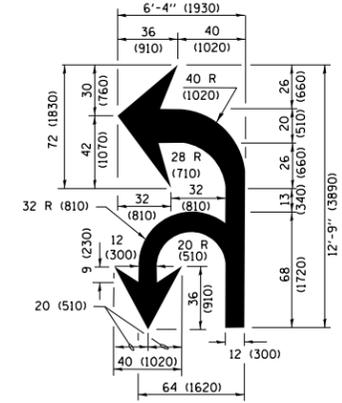
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



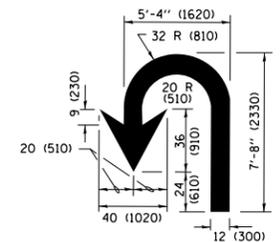
ISLAND OFFSET FROM PAVEMENT EDGE



**ISLAND AT PAVEMENT EDGE
TYPICAL ISLAND MARKING**



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

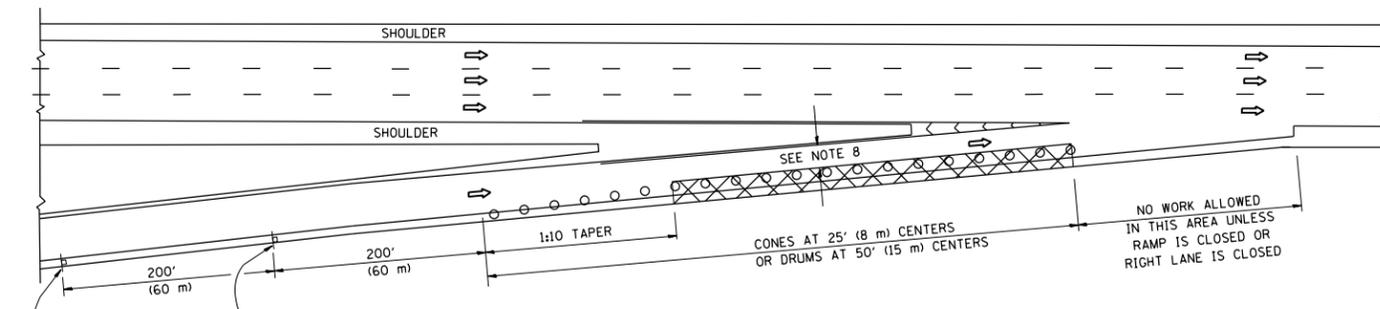
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	PLOT DATE = 7/5/2016		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

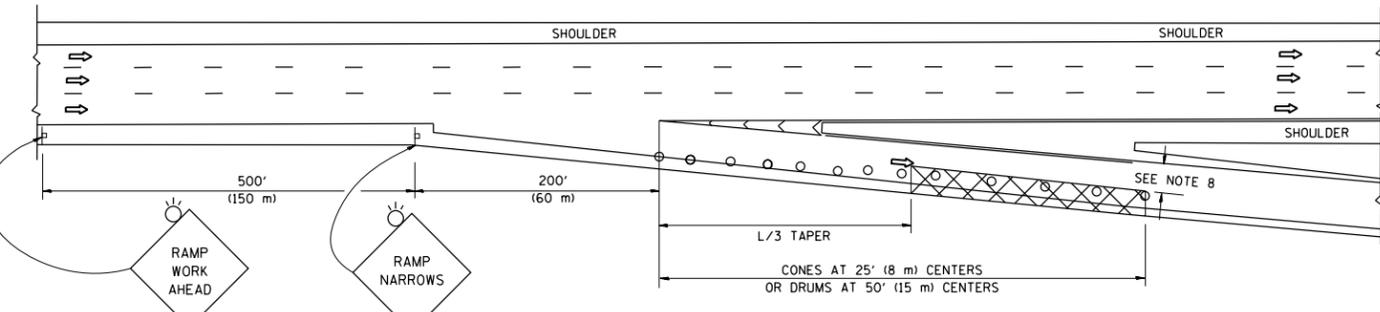
DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-21-7	WILL	20	18B
TC-13			CONTRACT NO. 62C87	
ILLINOIS FED. AID PROJECT				

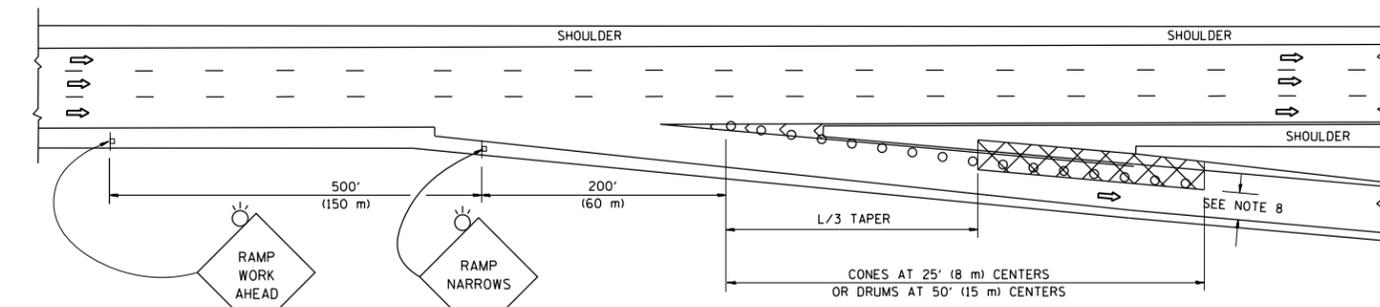
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

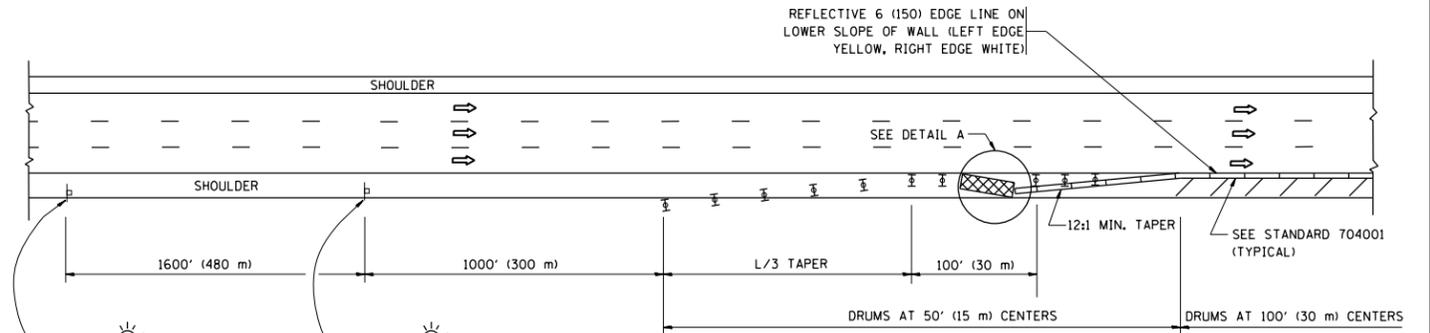
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

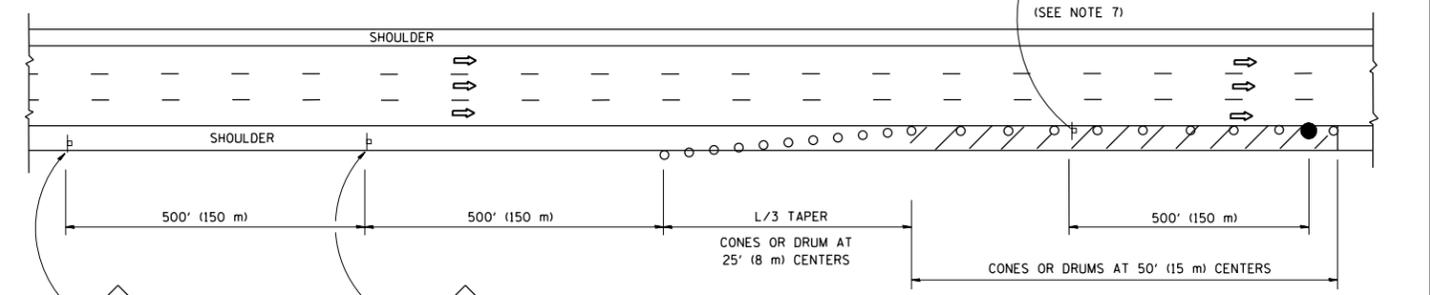
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L = 0.65(W)(S)$ $L = (W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

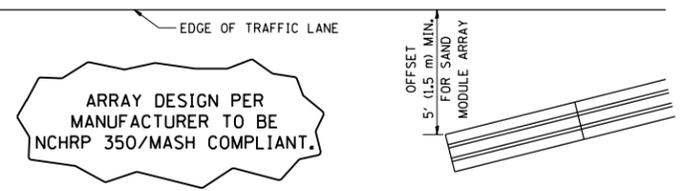


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRANCH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



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

5. 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.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCRACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
 16' MIN. WIDTH CURVE SECTION.

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

FILE NAME =	USER NAME = pyrzenowski	DESIGNED -	REVISED - J.A.F. 12-06
pw:\IL\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Sweeping\Drawings\CAAD\Design\Sweeping\084EBID.dgn		CHECKED -	REVISED - S.P.B. 01-07
		DATE - 11-96	REVISED - M.D. 06-13

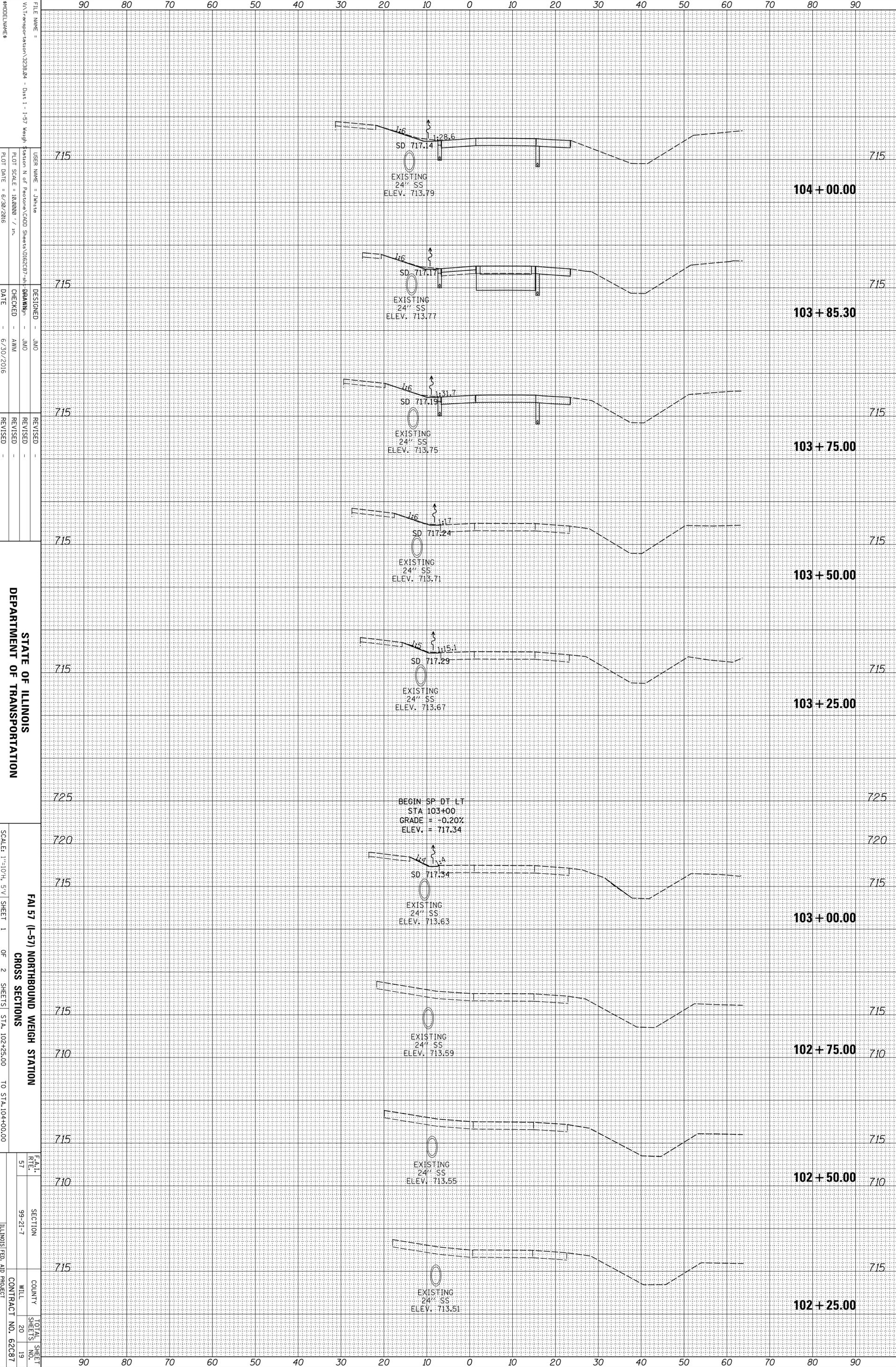
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY			
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-21-7	WILL	20	18C
TC-17		CONTRACT NO. 62C87		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



FILE NAME =
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 USER NAME = JWhite
 Station N of Peoria\CADD Sheets\0162287-ah-
 PLOT SCALE = 1/8"=1'-0" / m
 PLOT DATE = 6/30/2016

DESIGNED - JMO
 CHECKED - AJM
 DATE - 6/30/2016

REVISIONS
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 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

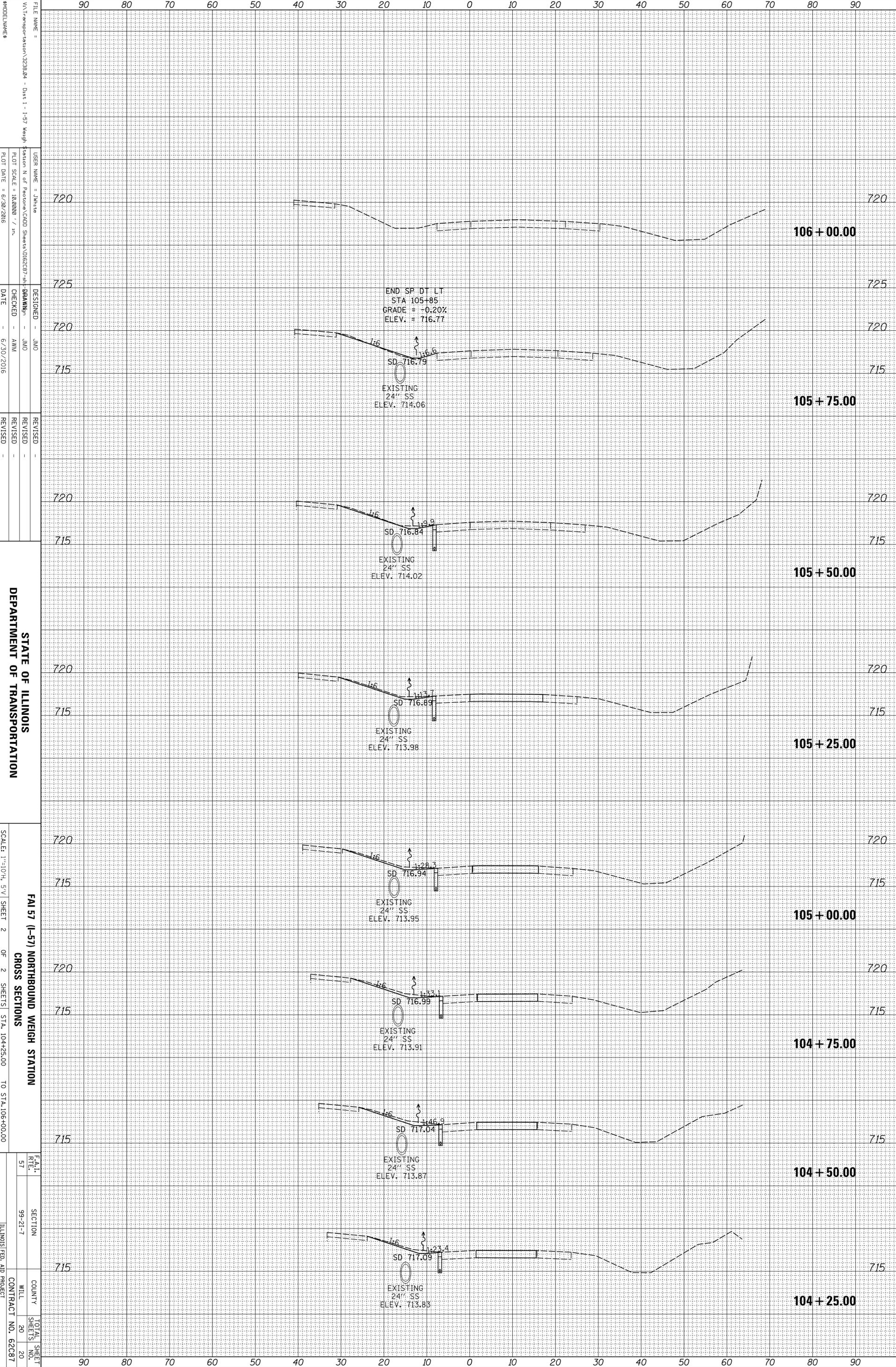
SCALE: 1"=10'-0" H, 5" V
 SHEET 1 OF 2 SHEETS STA. 102+25.00 TO STA. 104+00.00

FAI 57 (I-57) NORTHBOUND WEIGH STATION
 CROSS SECTIONS

FAI R/E 57 SECTION 99-21-7 COUNTY WILL TOTAL SHEETS 20 SHEET NO. 19 CONTRACT NO. 62C87 ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME =
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 USER NAME = JWhite
 Station N of Peoria\CADD Sheets\016257-4h-
 PLOT SCALE = 1/8"=1'-0" / 1"=10'-0"
 PLOT DATE = 6/30/2016

DESIGNED - JMO
 DRAWN - JMO
 CHECKED - AMM
 DATE - 6/30/2016

REVISIONS
 REVISION
 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'-0" H, 5"V
 SHEET 2 OF 2 SHEETS STA. 104+25.00 TO STA. 106+00.00

FAI 57 (I-57) NORTHBOND WEIGH STATION
 CROSS SECTIONS
 SECTION 99-21-7
 COUNTY WILL
 TOTAL SHEET NO. 20
 SHEETS NO. 20
 CONTRACT NO. 62587
 ILLINOIS FED. AID PROJECT