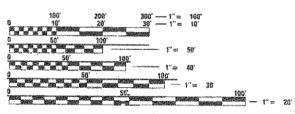
## INDEX OF SHEETS

- 1 COVER SHEET
- 2 STANDARDS, GENERAL NOTES, COMMITMENTS
  AND TYPICAL SECTION
- 3 SUMMARY OF QUANTITIES
- 4 PLAN
- 5-11 SCALE DETAILS



PREPARED BY: HURST-ROSCHE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959

JEREMY J. CONNOR P.E.#062-057938 DATE
LICENSE EXPIRES: NOVEMBER 30, 2017
HURST-ROSCHE INC.



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 EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: HERVE GELIN, (618) 346-3179
PROJECT MANAGER: CRAIG S POETTKER, (618) 346-3279
SQUAD LEADER: JEYCEA BOBO, (618) 346-3190

CONTRACT NO. 76K62

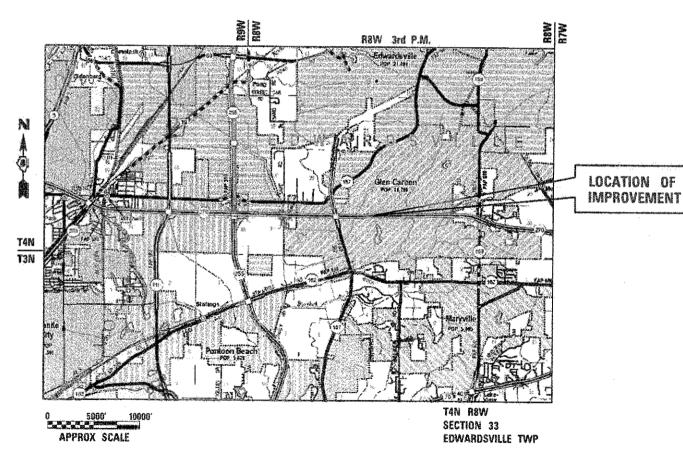
## STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.I. ROUTE 270 (I-270)
SECTION 60-4 WIMDCS 2018-2
PROJECT NO.: NHPP-KQWV (292)
WEIGH-IN-MOTION DATA
COLLECTION SYSTEM
MADISON COUNTY

C-98-135-18



GROSS LENGTH = 70 FT. = 0.013 MILE

0-98-093-17



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED

C. 17 20 17

REGIONAL ENGINEER
ENGINEER OF DESIGN AND ENVIRONMENT

ORIGINATION OF PROGRAM DEPENDMENT

2

OTHER OF PROGRAM DEPENDMENT

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### LIST OF APPLICABLE HIGHWAY STANDARDS

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERN

AREAS OF REINFORCEMENT BARS 001001-02

TEMPORARY EROSION CONTROL SYSTEMS 280001-07

OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE 701101-05

701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY 701400-09 APPROACH TO LANE CLOSURE, FREEWAY /EXPRESSWAY

701401-11 LANE CLOSURE, FREEWAY /EXPRESSWAY

701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY /EXPRESSWAY

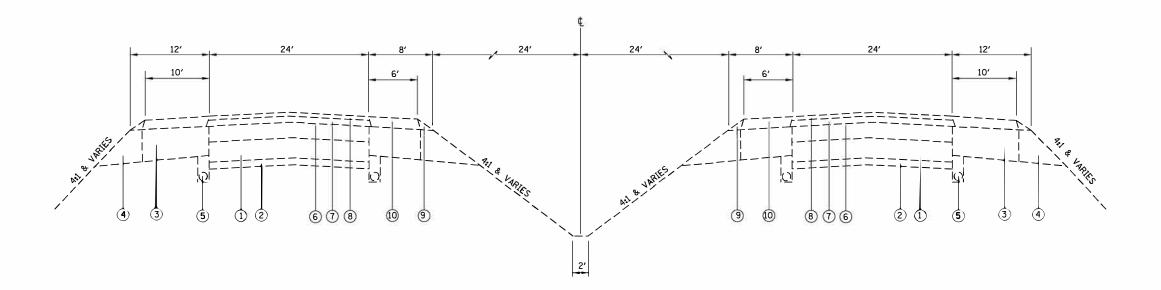
701901-07 TRAFFIC CONTROL DEVICES

805001-01 **ELECTRICAL SERVICE INSTALLATION DETAILS** 

814001-03 HANDHOLE

#### **COMMITMENTS**

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.



#### WB - TANGENT SECTION

STA 612+00 TO STA 620+00

**EB - TANGENT SECTION** STA 612+00 TO STA 620+00

#### **GENERAL NOTES:**

- 1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING, FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING JULLIE. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - \* CHARTER COMMUNICATIONS LARRY SAAFIR 636-387-6624 618-410-1476 \* VILLAGE OF GLEN CARBON DENNY LAWRENCE MARTIN FULLER NETWORK RELOCATION 618-236-6281 877-366-8344 X2 AMEREN ILLINOIS \* LEVEL 3 COMMUNICATIONS DISTRIBUTION 630-573-5450

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY\*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 5. 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 EIGHT TRAFFIC CONTROL SUPERVISIOR AT (618)346-3283 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

#### **LEGEND**

- PCC PAVEMENT, 10" JOINTED
- 2 GRANULAR SUB-BASE, 6"
- 3 BITUMINOUS SHOULDER
- 4 AGGREGATE SHOULDER, TYPE B
- (5) PIPE UNDERDRAIN
- RESURFACING 8 5/8" 10 1/4"
- 7 POLYMERIZED HMA BINDER COURSE, N150, 2 1/4"
- POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT N80, 2" 8
- 9 AGGREGATE SHOULDER WEDGE, TYPE B
- (10) HMA SHOULDER

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SCI	FILE NAME =	USER NAME = boboja	DESIGNED - JJC	<b>REVISED -</b> MJS 11-20-2017		FAI 270 (I–270) WEIGH–IN–MOTION DATA COLLECTION SYSTEM	F.A.I. SECTION	COUNTY TOTAL SHEET
5	pw:\\ILØ84EBIDINTEG.:111:no:s.gov:PWIDOT\Do	uments\IDOT Offices\District 8\Projects\D87	K <b>BRWWW</b> Data\EAD <b>d</b> beets\D876K62-sht-plan.	gREVISED -	STATE OF ILLINOIS	STANDARDS, GENERAL NOTES, COMMITMENTS	270 60-4 WIMDCS 2018-2	MADISON 11 2
5		PLOT SCALE = 100.0000 ' / in.	CHECKED - GR	REVISED -	DEPARTMENT OF TRANSPORTATION	AND TYPICAL SECTION	1	CONTRACT NO. 76K62
47		PLOT DATE = 8/10/2017	DATE - 6-30-17	REVISED -		SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 8   ILLINOIS   FED.	

# SUMMARY OF QUANTITIES

<b>.</b>		orang and desirable of the control o		CONSTR. CODE 90% FEDERAL 10% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0044 Urban
67100100	MOBILIZATION	LSUM	1	1
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	2
80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	85	85
81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	113	113
81702441	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-12/C, 1-12/C GROUND	FOOT	46	46
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25	0.25
Z0026290	FURNISHING AND INSTALLING WEIGH-IN- MOTION COMPONENTS	LSUM	1	1

HURST-ROSCHE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 JOB NO. 180-2356

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

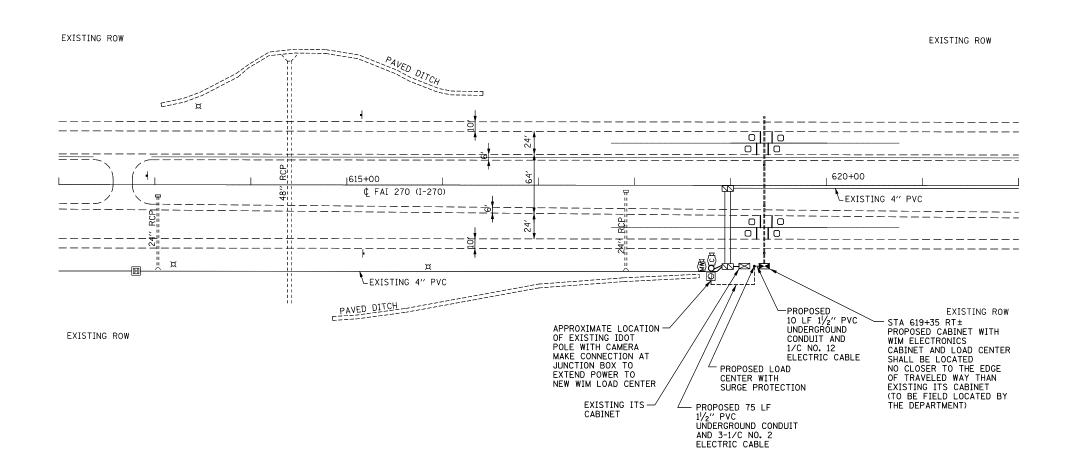
FAI 270	(I-270) WEIGH-IN-MOTION DATA COLLECTION	SYSTEM				
SUMMARY OF QUANTITIES						
NO CONT	E CHEET NO. 4 OF 1 SUBSECTION					

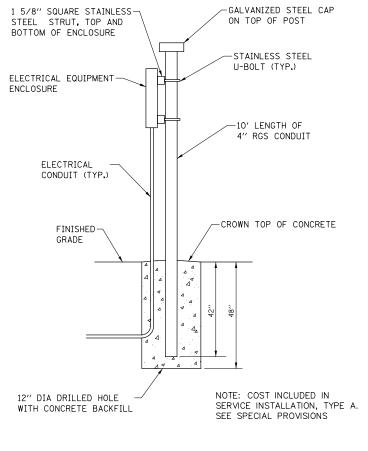




PLAN VIEW TAKEN FROM PLANS FOR CONTRACT NO. 76618

TOTAL SHEET NO. DESIGNED REVISED USER NAME = boboja JJC SECTION COUNTY FAI 270 (I270) WEIGH-IN-MOTION DATA COLLECTION SYSTEM STATE OF ILLINOIS w:\\ILØ84EBIDINTEG.ıllınoı uments\IDOT Offices\District 8\Projects\D87**6KBRANMN**Data\CADsh**dal**ts\D876K62-sht-plan gREVISED 270 60-4 WIMDCS 2018-2 MADISON PLAN PLOT SCALE = 100.0000 '/ in. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 76K62 SCALE: 1"=50" SHEET NO. 1 OF 1 SHEETS STA. 612+00 TO STA. 622+00 REVISED PLOT DATE = 8/10/2017 6-30-17

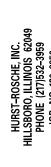


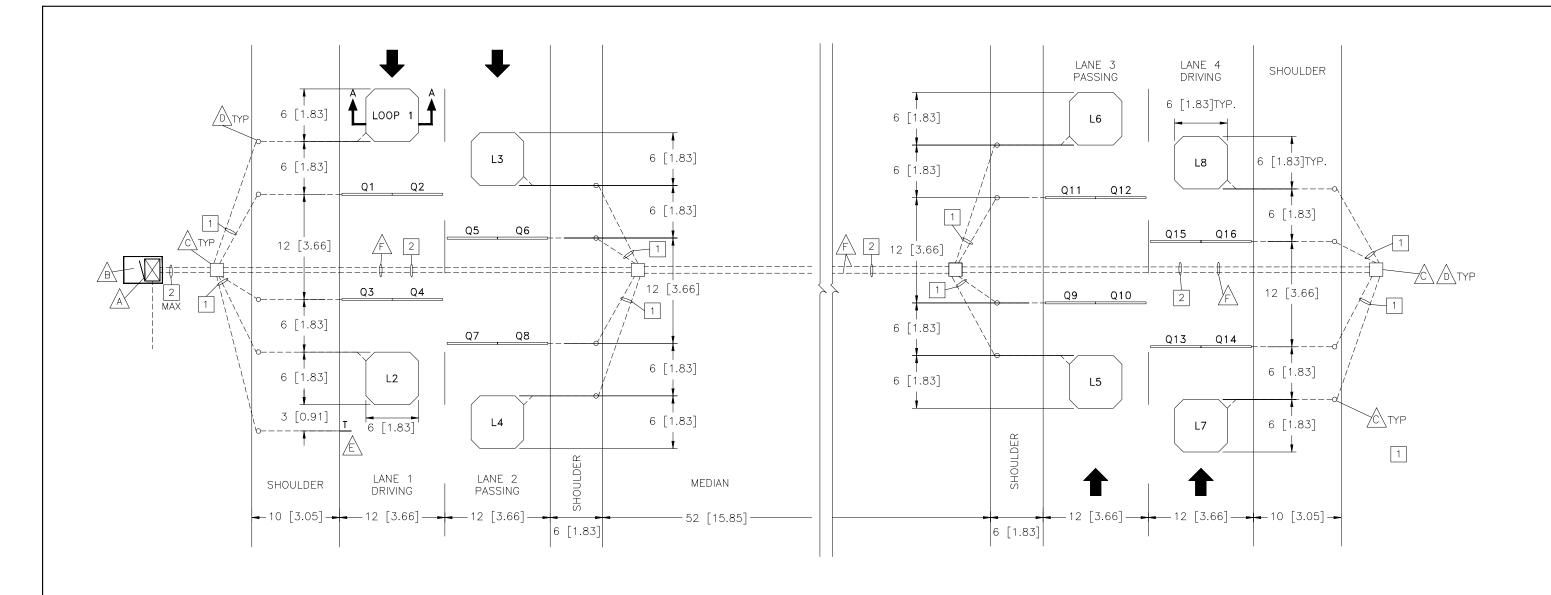












#### **GENERAL NOTES:**

ALL CONNECTIONS BETWEEN SENSORS AND LEAD CABLES ARE DONE IN HAND HOLE AND ARE SOLDERED THEN SEALED FOR WATERPROOFING, NUMBER AND PLACEMENT OF HAND HOLES NOT SHOWN.

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

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

ROAD SERVICE MUST MEET ASTM E1318 REQUIREMENTS TO ACHIEVE OPTIMAL SYSTEM.

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

TEMPERATURE SENSOR MUST BE INSTALLED AS SHOWN ON DRAWING.

MANUFACTURER RECOMMENDS THAT HAND HOLES BE NO FURTHER THAN 200' (61m) APART. MANUFACTURE RECOMMENDS THE MINIMUM SIZE FOR HAND HOLES IS 18" (45.7cm)  $X 18'' (45.7cm) \times 12'' (30.5cm).$ 

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

DRAWING NOT TO SCALE.

#### NOTES:

CABINET WITH WIM ELECTRONICS

CABINET BASE

HAND HOLE

DRILL THROUGH SHOULDER FOR CONDUIT

TEMPERATURE SENSOR

BORE UNDER ROADWAY

#### LEGEND:

INDUCTIVE LOOP

LINEAS® QUARTZ WIM SENSOR BY KISTLER

TEMPERATURE SENSOR

SIGNAL CONDUIT

NOTE

#### SIGNAL CONDUIT:

1" (25mm) CONDUIT SENSOR LEAD

3" (76mm) CONDUIT SENSOR LEAD

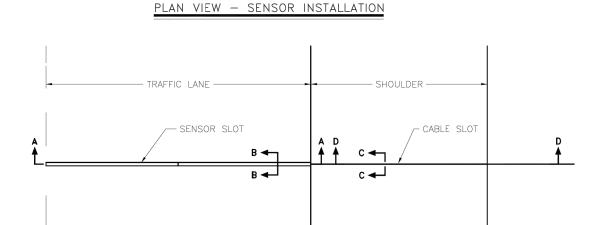
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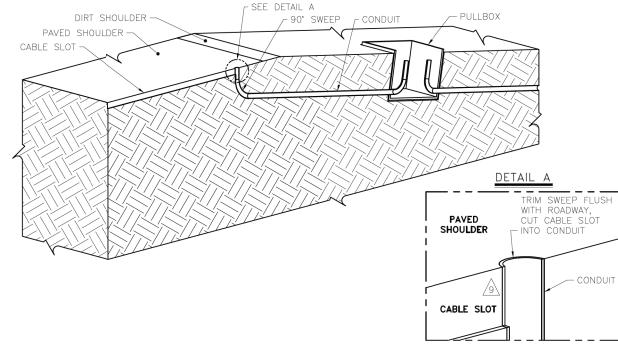
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SOALE BEI				CONTRAC	T NO.	76K62
SCALE: NO SCALE   SHEET NO. 1 OF 7 SHEETS	STA. TO STA.	FED. RO	DAD DIST. NO. 8 ILLINOIS FED. A	ID PROJECT		

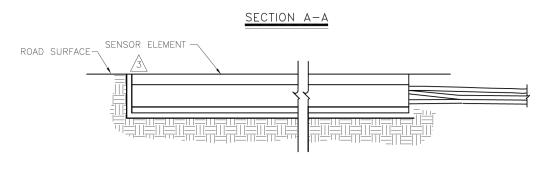
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	PLOT DATE = 8/10/2017	DATE - 6-30-17	REVISED	-	

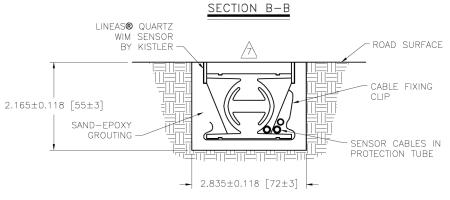
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

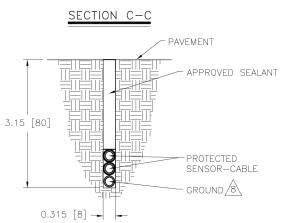
#### SECTION D-D (CABLE ROUTING DETAILS)











### NOTES:

- 1 FOR INSTALLATTON PROCESS REFER TO MANUFACTURERS INSTALLATION MANUAL.
- 2 SLOT LENGTH IS 6 [152] LONGER THAN SENSOR.

SET SENSOR FLUSH WITH OR SLIGHTLY HIGHER THAN ROAD SURFACE USING INCLUDED LEVELING

- 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.
- 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.
- CRACKS OR SAW CUTS TN THE ROADWAY MUST NOT BE LOCATED CLOSER THAN 18 [450] UPSTREAM AND 18 [450] DOWNSTREAM OF THE SENSOR.

SENSOR MUST BE GROUND FLUSH WITH ROAD SURFACE AFTER GROUT HAS CURED.

IF SIGNIFICANT NOISE SOURCES ARE IDENTIFIED, OVERHEAD POWER SOURCES ETC., CONNECT OPTIONAL GROUND WIRE AS PER 690359 SECTION 4.5 OF THE MANUFACTURE'S INSTALLATION GUIDE, OTHER END OF GROUND WIRE CONNECTS TO CABINET GROUND BUSBAR.

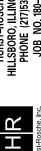
OCRE DRILL OR CUT NOTCH IN PAVED SHOULDER FOR SWEEP. PLUG SWEEP OPENING, COVER WITH LOOP SEALANT.

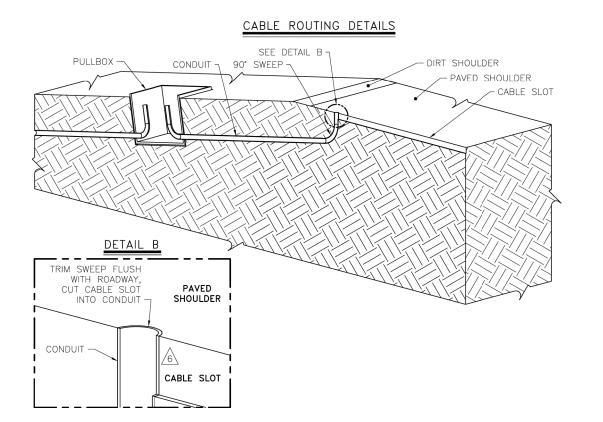




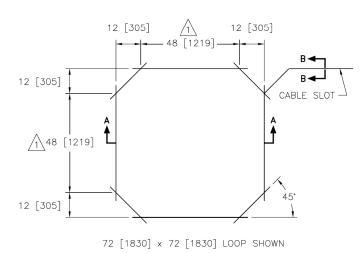
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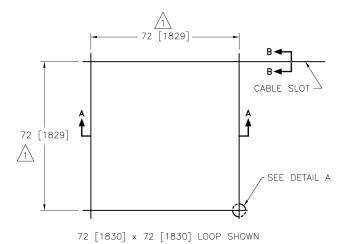


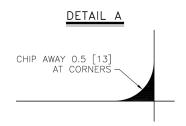


#### OCTAGON LOOP DIMENSION DETAIL

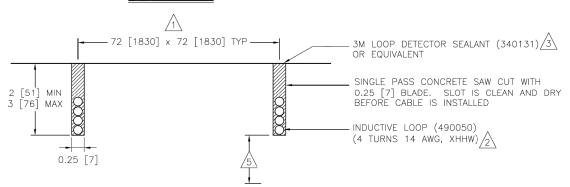


#### SQUARE LOOP DIMENSION DETAIL

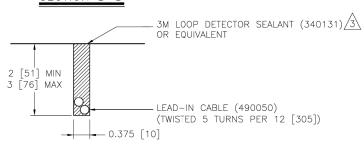








#### SECTION B-B



#### NOTES:

LOOP SIZE AS SPECIFIED ON SITE LAYOUT AND IN ACCORDANCE WITH IRD 3EGRO001.

NUMBER OF TURNS AS SPECIFIED ON SITE LAYOUT AND IN ACCORDANCE WITH IRD 3EGRO001

3 USE CAULKING GUN 340132 OR 340148.

4 LOOP INSTALLATION MANUALS: 690279 — PERMANENT OCTAGON LOOPS 690289 — PERMANENT SQUARE LOOPS

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.

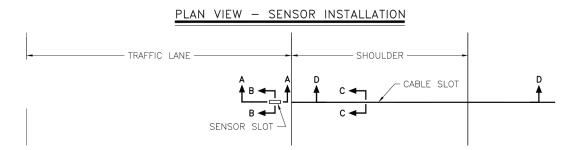
CORE DRILL OR CUT NOTCH IN PAVED SHOULDER FOR SWEEP. PLUG SWEEP OPENING, COVER WITH LOOP SEALANT.

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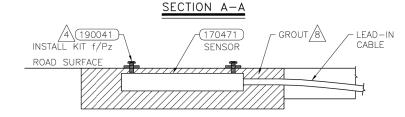
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SCALE DETAILS							
SCALE: NO SCALE	SHEET NO. 3 OF 7 SHEETS	STA.	TO STA.				

# HURST-ROSCHE, INC. HILLSBORO, ILLINOIS 620 PHONE (217)532-3959 JOB NO. 180-2356

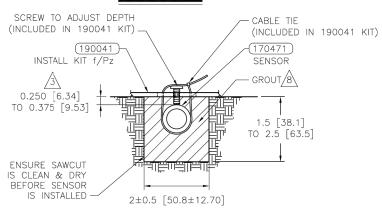




#### SENSOR P/N 170471



#### SECTION B-B



#### NOTES: (THIS SHEET ONLY)

- 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.

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.

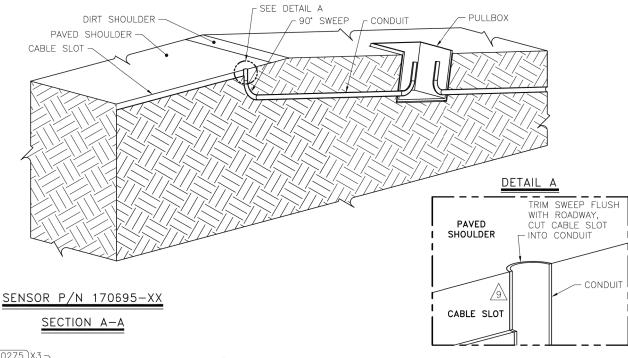
6 WEDGE SENSOR AGAINST FLOOR OF CUT UNDER "W" CLIP (P/N 480275).

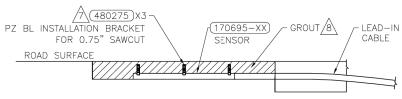
SPACE THREE BRACKETS (P/N 480275) EVENLY OVER THE LENGTH OF THE SENSOR,

USE GROUT OF SAME TYPE AS THAT OF SENSOR BEING COMPENSATED:
PIEZO - USE AS475 (340028) OR PU200 (IT2000285)
KISTLER - USE KISTLER GROUT (340139) OR FLEXOLITH (340082)

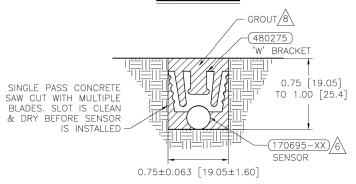
© CORE DRILL OR CUT NOTCH IN PAVED SHOULDER FOR SWEEP. PLUG SWEEP OPENING, COVER WITH LOOP SEALANT.

#### SECTION D-D (CABLE ROUTING DETAILS)

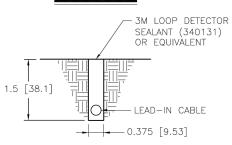




#### SECTION B-B

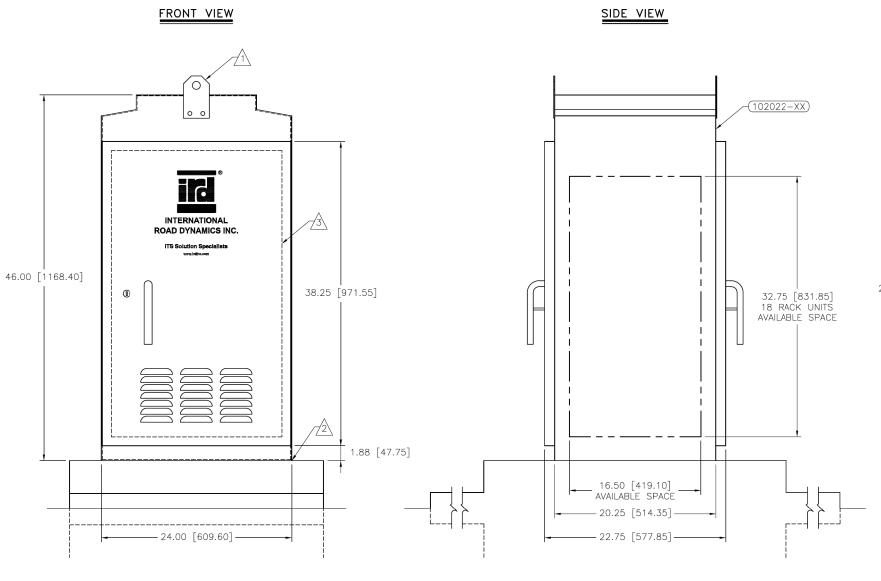


#### SECTION C-C

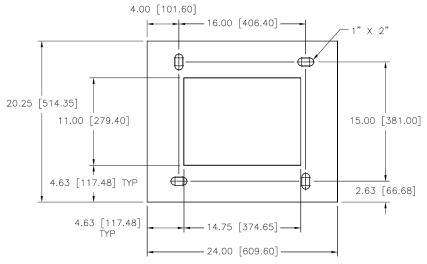


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	PLOT DATE = 8/10/2017	DATE - 6-30-17	REVISED -





#### PAD MOUNTING PATTERN



LIFTING EYE. MAY BE UNBOLTED AND ROTATED 180° FOR STORAGE.

SEAL CABINET TO FOUNDATION JOINT WITH SILICONE SEALANT TO PREVENT WATER INTRUSION. LOCATE CABINET ABOVE HIGH WATER LEVEL.

REMOVABLE 19" EIA RACK.

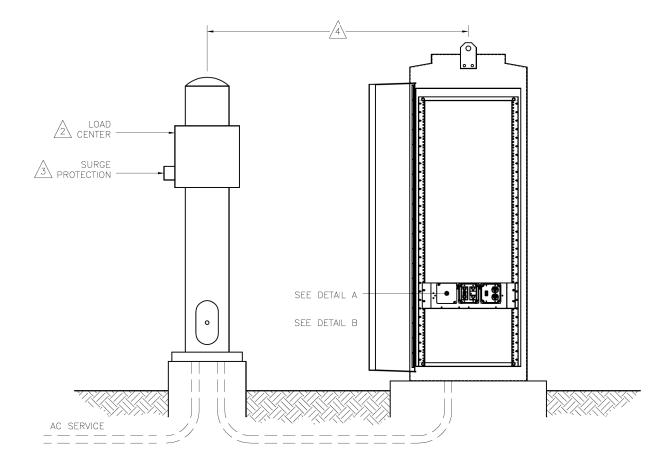
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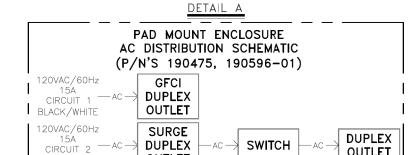
FAI 270 (I–270) WEIGH–IN–MOTION DATA COLLECTION SYSTEM	F.A.I. RTE.	Ī				
SCALE DETAILS						
SCALE DETAILS						

SECTION COUNTY TOTAL SHEETS NO.

60-4 WIMCDS 2018-2 MADISON 11 9

CONTRACT NO. 76K62 SCALE: NO SCALE SHEET NO. 5 OF 7 SHEETS STA. FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT





OUTLET

RED/WHITE

-AC → SWITCH

OUTLET

#### NOTES:

ALL ELECTRICAL DEVICES, GROUNDING, BONDING, WIRING AND MOUNTING MUST MEET THE 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 (8/20µS) INSTALLED AT THE LOAD CENTER OR SUB LOAD CENTER.

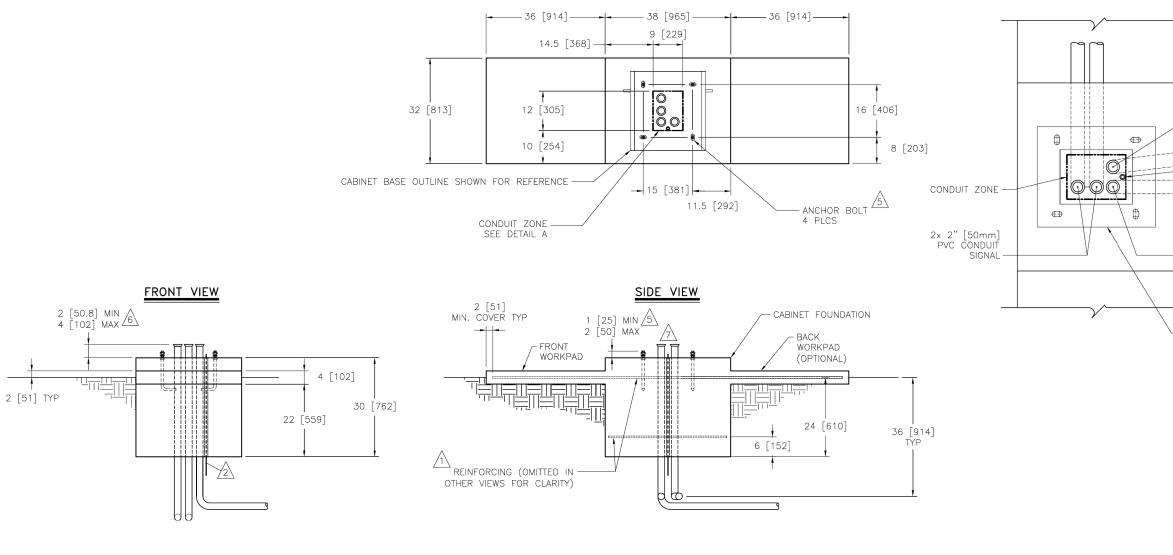


 $\stackrel{\textstyle \wedge}{4}$  30m maximum cable length between category c protector and enclosure(s).



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	PLOT SCALE = 100.0000 ' / in.	CHECKED	-	GR	REVISED	-	
	PLOT DATE = 8/10/2017	DATE	-	6-30-17	REVISED	-	

	FAI 270 (I–270) WEIGH–IN–MOTION DATA COLLECTION SYSTEM SCALE DETAILS							SECTION	COUNTY TOTA		SHEET NO.	
ı								60-4 WIMCDS 2018-2	MADISON	11	10	
	OUNCE DETAILS								CONTRACT	NO. 7	76K62	
	SCALE: NO SCALE	SHEET NO. 6 OF 7	SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 8   ILLINOIS   FED. AID PROJECT					



TOP VIEW - CABINET MOUNTING

#### NOTES:

INSTALL REINFORCING MATS. #4 [12M] BAR 12" [300mm] ON CENTER EACH WAY. REINFORCEMENTS ARE MINIMUM REQUIREMENTS AND MAY BE SUPERSEDED BY LOCAL CONSTRUCTION CODES.

GROUND ROD MUST BE PROVIDED TO MEET LOCAL ELECTRICAL CODE.

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 MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI [20.7 MPa].

 $\stackrel{\triangle}{\triangle}$  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".

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.

### NOTES: (CONTINUED)

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.

DETAIL A - MINIMUM CONDUITS

-2" [50mm] PVC CONDUIT

-1" PVC CONDUIT
SLEEVE FOR
GROUND ROD

1x 2" [50mm] PVC CONDUIT

COMMUNICATION

CABINET BASE OUTLINE SHOWN FOR REFERENCE





sche	FILE NAME =	USER NAME = boboja	DESIGNED -	- JJC	REVISED -		FAI 270 (I–270) WEIGH-IN-MOTION DATA COLLECTION SYSTEM	F.A.I.	SECTION	COUNTY	TOTAL SHEF
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, -		PLOT DATE = 8/10/2017	DATE -	- 6-30-17	REVISED -		SCALE: NO SCALE SHEET NO. 7 OF 7 SHEETS STA. TO STA.	FED. F	ROAD DIST. NO. 8 ILLINOIS FED. A	AID PROJECT	