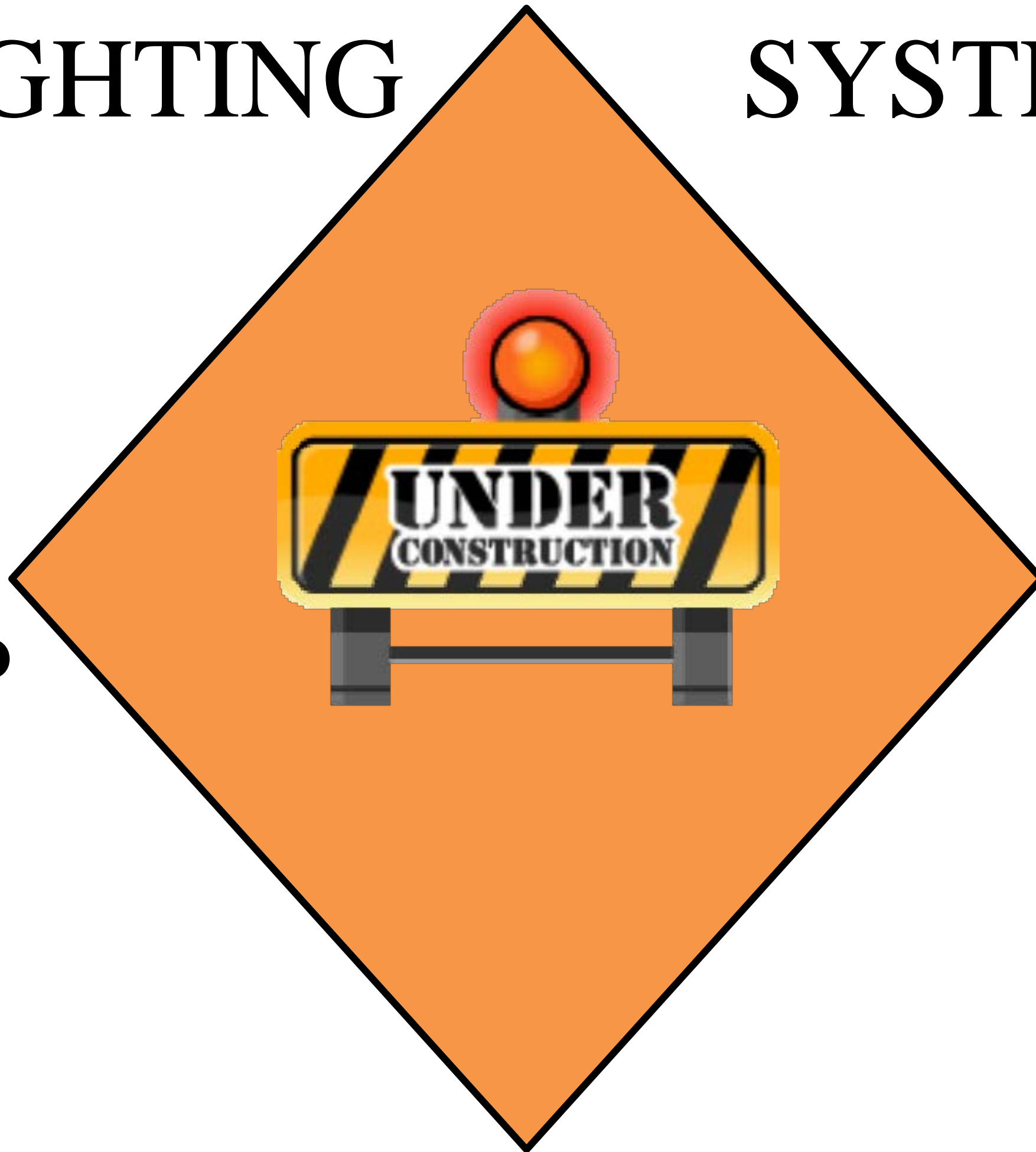




STOP

LIGHTING

SYSTEM



WEST METRO
JAMES SIMS
651-775-9495

EAST METRO
JAY URBAN
651-775-5712

PLOTTED/REVISED: 7-JAN-2022

DISTRICT #: Metro
 IPLOT NAME: 1921-90_seq and details
 PATH & FILENAME: Projects\DM_ROMS\003\1921\090\Traffic\Lighting\1921-90_seq and details.dgn

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT	
STANDARD PLATES	
PLATE NO.	DESCRIPTION
8107A	RLF EQUIPMENT PAD FOUNDATION LAYOUT
8117G	PRECAST CONCRETE HAND HOLE WITH VEHICLE LOAD
8127E	LIGHT FOUNDATION - DESIGN E PRECAST/CAST-IN-PLACE (40 FT. POLE OR LESS) (2 SHEETS)
8129A	SHIM AND WASHER (TRAFFIC CONTROL SIGNALS AND ROADWAY LIGHTING)

SL	LIGHTING TABULATION			
ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	SP 1921-90 (A)	S.A.P. 019-666-011 (C)
LIGHTING SYSTEM	LUMP SUM	1	0.80	0.20

FUNDING NOTES:

- (A) 90% FEDERAL AND 10% STATE FUNDS.
- (C) 100% DAKOTA COUNTY FUNDS.

BY	DATE	REVISIONS

I HEREBY CERTIFY THAT SHEETS SL1 TO SL4
 HAVE BEEN PREPARED BY ME OR UNDER MY
 DIRECT SUPERVISION AND I AM A DULY
 LICENSED PROFESSIONAL ENGINEER UNDER THE
 LAWS OF THE STATE OF MINNESOTA.

Gregory Kern
 GREGORY KERN

DATE 03-JAN-2022 LIC. NO 26829

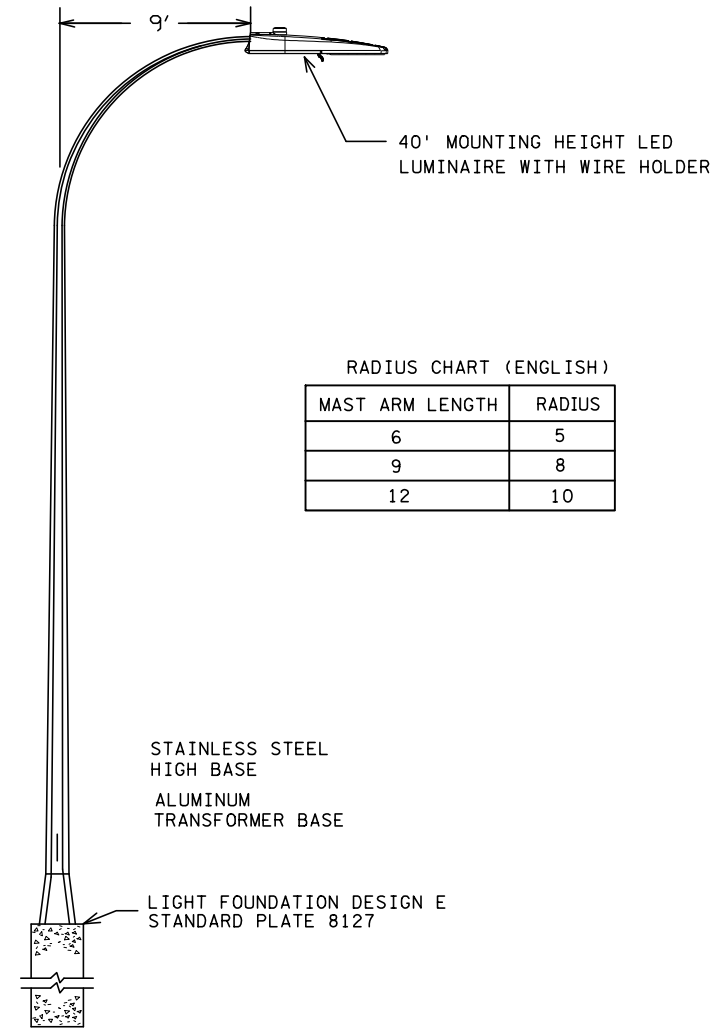
S.A.P. 019-666-011

LIGHTING QUANTITIES	
STATE PROJ.NO.1921-90 (T.H.3)	SHEET NO.SL1 OF SL4 SHEETS

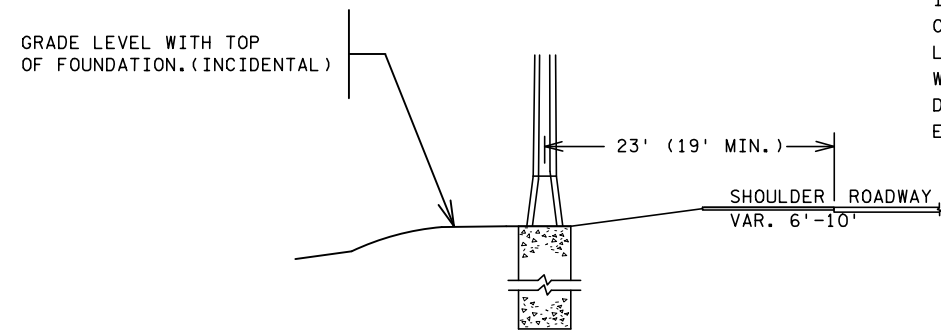
DRAWN BY: DDD CKD BY: PB

PLOTTED/REVISED: 3-JAN-2022

DISTRICT *: Metro
 IPLOT NAME: 1921-90_seq and details
 PATH & FILENAME: Projects\DM_ROS\003\1921\090\Traffic\Lighting\1921-90_seq and details.dgn



LIGHTING UNIT TYPE 9-40
 (BREAKAWAY)



USE THE MAXIMUM DISTANCE WHENEVER POSSIBLE, IF THE MINIMUM DISTANCE CANNOT BE OBTAINED CONTACT THE DISTRICT TRAFFIC ENGINEER. LIGHT FOUNDATIONS SHALL BE PLACED IN ACCORDANCE WITH 2545.3F2. DISTANCES SHALL BE MEASURED FROM THE EDGE OF DRIVING LANE OR TURN LANE.

PLACEMENT LIGHTING UNIT TYPE 9-40

S.A.P. 019-666-011

BY	DATE	REVISIONS

DRAWN BY: DDD CKD BY: PB

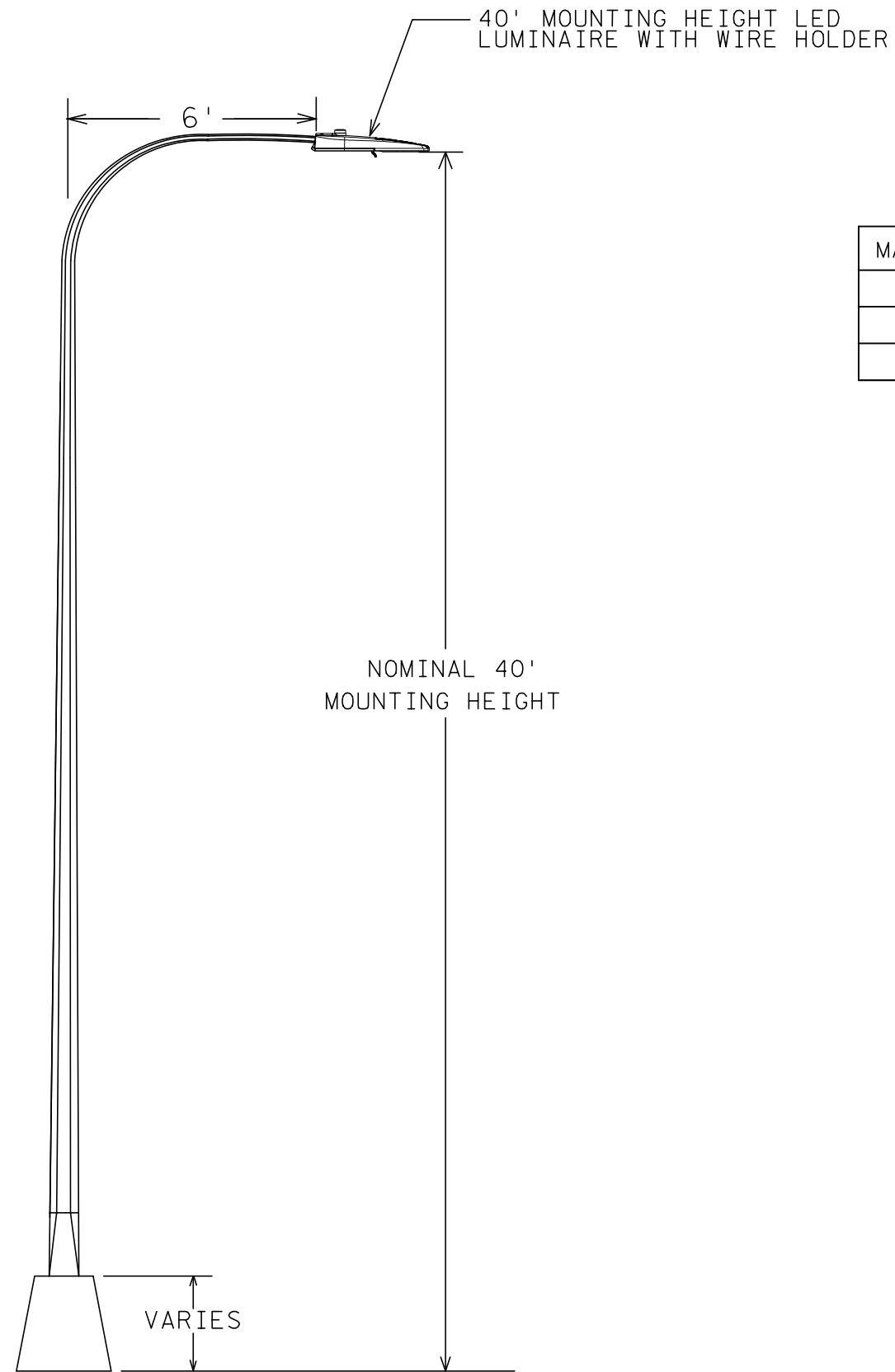
CERTIFIED BY Gregory Kern LIC. NO. 26829 DATE: 3-JAN-2022
LICENSED PROFESSIONAL ENGINEER

LIGHTING DETAILS

STATE PROJ.NO.1921-90 (T.H. 3) SHEET NO. SL2 OF SL4 SHEETS

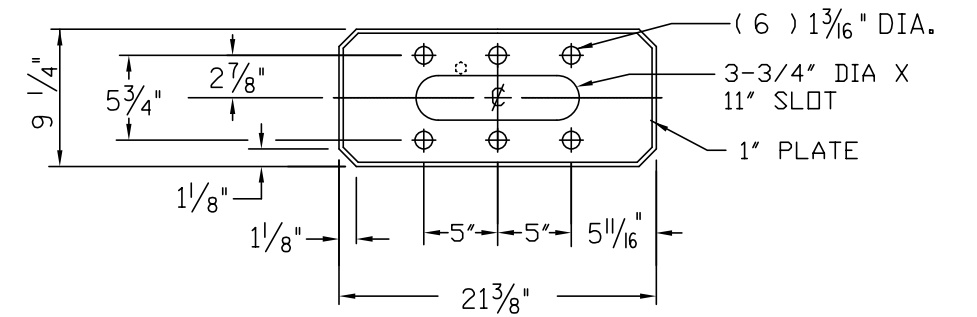
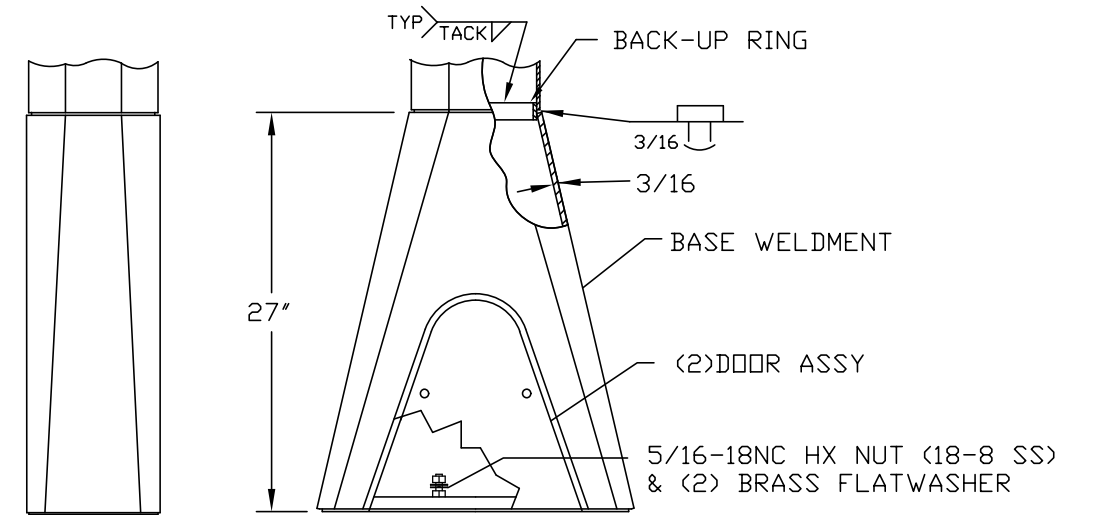
PLOTTED/REVISED: 3-JAN-2022

DISTRICT *: Metro
 IPLOT NAME: 1921-90_seq and details
 PATH & FILENAME: Projects\DM罗斯003\1921\090\Traffic\Lighting\1921-90_seq and details.dgn



RADIUS CHART (ENGLISH)

MAST ARM LENGTH	RADIUS
6	5
9	8
12	10



BASE PLATE DETAIL FOR BRIDGE POLES AND
 MEDIAN BARRIER POLES WITH 6 ANCHOR BOLTS

NOTES:

1. SKIRT MATERIAL-HIGH STRENGTH LOW ALLOY STEEL
 50,000 PSI MIN YIELD PER ASTM A607 (A606 IF SELF
 WEATHERING) BASE PLATE MATERIAL 36,000 PSI MIN
 YIELD PER ASTM A36 (A588 IF SELF WEATHERING)
2. FINISH-TO MATCH POLE

LIGHTING UNIT TYPE 6B-40

S.A.P. 019-666-011









BY	DATE	REVISIONS
DRAWN BY: DDD		CKD BY: PB

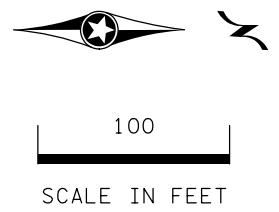
CERTIFIED BY Gregory Kern LIC. NO. 26829 DATE: 3-JAN-2022
LICENSED PROFESSIONAL ENGINEER

LIGHTING DETAILS

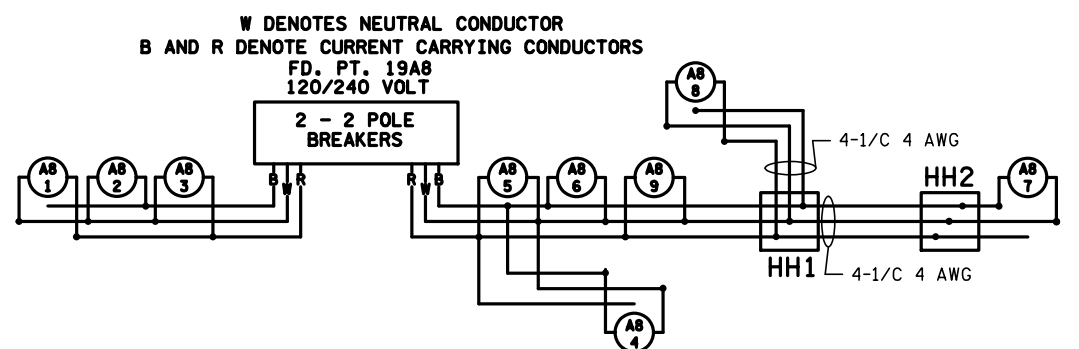
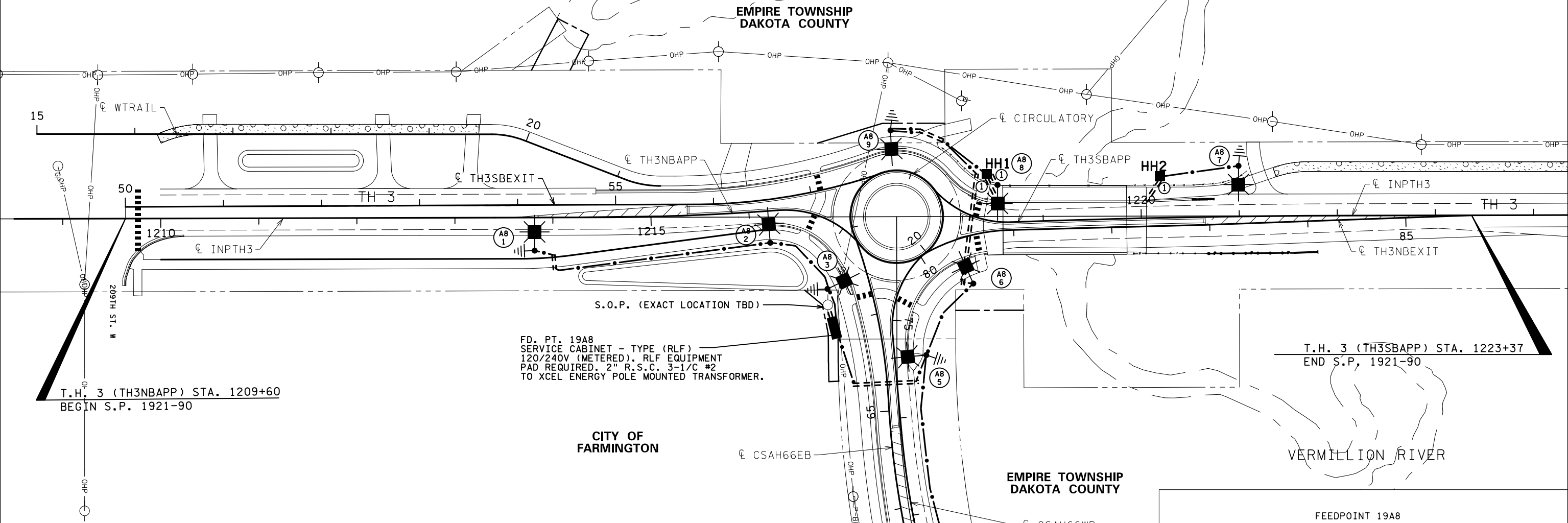
STATE PROJ.NO.1921-90 (T.H. 3) SHEET NO. SL3 OF SL4 SHEETS

LEGEND

-  LIGHTING UNIT
-  SERVICE CABINET - TYPE RLF
-  HANDHOLE (HH)
-  PERMANENT GROUND ROD (25 OHMS OR LESS)
-  3" PVC (UNLESS NOTED OTHERWISE)
-  LIGHTING UNIT IDENTIFIER
-  INPLACE RIGHT OF WAY
-  NEW RIGHT OF WAY



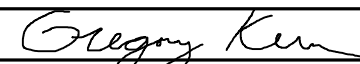
NOTES:
① 1.5" RIGID STEEL CONDUIT (PVC COATED) FROM HANDHOLES TO BRIDGE BARRIER.



FEEDPOINT 19A8
LIGHTING UNIT LOCATION AND TYPE

NO.	STATION	LT.	RT.	LOCATION	TYPE	FOUNDATION
1	1213+81		X	TH3NBAPP	9-40	DESIGN E
2	1216+19		X	TH3NBAPP		
3	66+38	X		CSAH66EB		
4	72+14		X	CSAH66WB		
5	74+61		X	CSAH66WB		
6	80+43		X	TH3NBEXIT		
7	1221+00	X		TH3SBAPP	9-40	DESIGN E
8	1218+48	X		TH3SBAPP	6B-40	BRIDGE
9	21+18	X		CIRCULATORY	9-40	DESIGN E

DISTRICT *: Metro
 PLOT NAME: 1921-90_Lit_0
 PATH & FILENAME: Projects\DM_R0S\003\1921\090\Traffic\Lighting\1921-90_Lit_0.dgn
 PLOTTED/REVISED: 3-JAN-2022

BY	DATE	REVISIONS	FEEDPOINT: 19A8	LOCATION: CSAH 66 (VERMILLION RIVER TRL)	LIGHTING PLAN
			METER ADDRESS: 3370 VERMILLION TRAIL, FARMINGTON 55024		
DRAWN BY: PB CKD BY: DDD			CERTIFIED BY:  L.I.C. NO. 26829 DATE: 3-JAN-2022		STATE PROJ. NO. 1921-90 (T.H. 3) SHEET NO. SL4 OF SL4 SHEETS