

**SIGNAL HEAD CHART**

FACE	R	Y	FYA	G	G
1-1, 1-2	←	←	←	←	
2-1, 2-2, 2-3	●	●	●	●	
4-1	●	●	●	●	
4-2	●	●	●	●	←
4-3, 4-4	←	←	←	←	
6-1, 6-2, 6-3	●	●	●	●	

-ALL SIGNAL INDICATIONS SHALL BE 12" LED  
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS  
 -FYA DENOTES FLASHING YELLOW ARROW

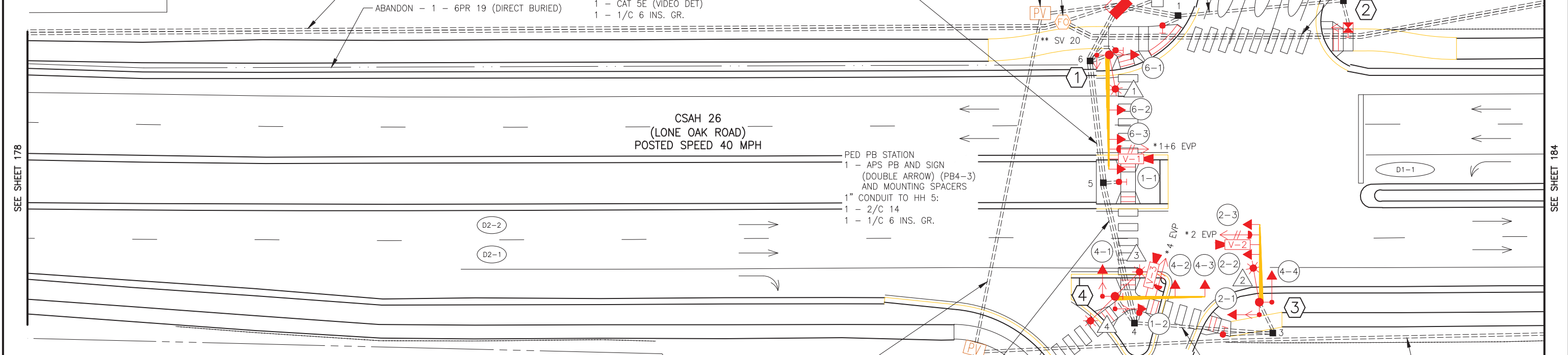
\*\* INSTALL - 2" CONDUIT (ORANGE)  
 \*\* INSTALL - 1 - 144SM FO CABLE  
 \*\* INSTALL - 2" CONDUIT (BLUE)  
 \*\* INSTALL - 1 - 1/C 12 (TRACER)

3" CONDUIT  
 2 -12/C 14  
 2 - 4/C 14  
 2 - 3/C 14 (LUM)  
 \*1 - 3/C 14  
 \*1 - 3/C 20  
 2 - 2/C 14  
 1 - CAT 5E (VIDEO DET)  
 3" CONDUIT  
 2 -12/C 14  
 1 - 4/C 14  
 1 - 3/C 14 (LUM)  
 \*1 - 3/C 14  
 \*1 - 3/C 20  
 2 - 2/C 14  
 1 - CAT 5E (VIDEO DET)  
 1 - 1/C 6 INS. GR.

\*\* INSTALL - FO SPLICE VAULT  
 PED PB STATION  
 1 - APS PB AND SIGN (RT ARROW) (PB6-2)  
 1" CONDUIT TO HH 1:  
 1 - 2/C 14  
 1 - 1/C 6 INS. GR.  
 \*\*\*\* PULL VAULT (COIL 50 FT OF FO CABLE)  
 PED PB STATION  
 1 - APS PB AND SIGN (LT ARROW) (PB4-1)  
 1" CONDUIT TO HH 6:  
 1 - 2/C 14  
 1 - 1/C 6 INS. GR.

PED PB STATION  
 1 - APS PB AND SIGN (RT ARROW) (PB6-2)  
 1" CONDUIT TO HH 1:  
 1 - 2/C 14  
 1 - 1/C 6 INS. GR.  
 3" CONDUIT  
 1 - 4/C 14  
 1 - 2/C 14  
 1 - 1/C 6 INS. GR.

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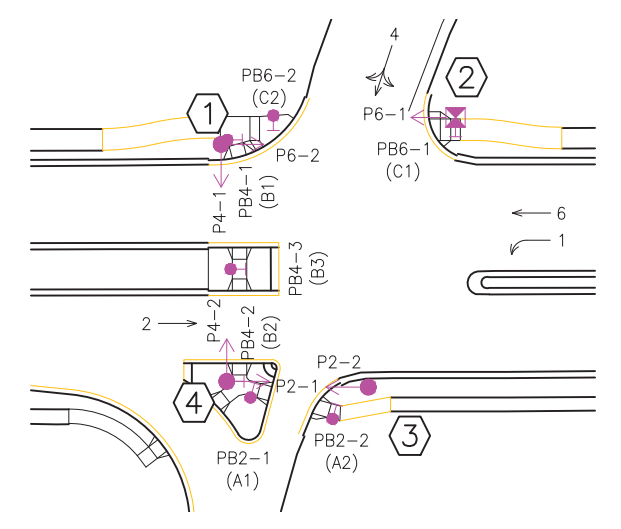
**NOTES:**

1. ALL ITEMS ARE FURNISH AND INSTALL UNLESS OTHERWISE NOTED.
2. SEE SPECIAL PROVISIONS FOR STATE AND COUNTY FURNISHED MATERIALS.
3. REFER TO "FOR INFORMATION ONLY" SHEETS FOR INPLACE SIGNAL COMPONENTS.
4. THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK.
5. ENSURE THE EXACT LOCATION OF THE HANDHOLES, VAULTS, POLES, AND EQUIPMENT PAD ARE VERIFIED IN THE FIELD BY MNDOT OFFICE PERSONNEL.
6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TRAFFIC SIGNAL SYSTEM.
7. FOR MAST ARM SIGNS SEE DETAIL SHEET. ALL SIGNS REQUIRED ARE INCIDENTAL.
8. FOR PAVEMENT MARKINGS SEE CONSTRUCTION PLANS.
9. FOR CONSTRUCTION OF PEDESTRIAN CURB RAMPS, CONCRETE WALK, AND MEDIAN WORK SEE CONSTRUCTION PLANS.
10. THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAYS REQUIRE BORING.
11. USE PVC OR HDPE FOR ALL NEW CONDUIT.
12. CONDUIT SIZES ARE NOMINAL DIAMETER.
13. ALL WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).
14. ITEMS DENOTED WITH \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
15. ITEMS DENOTED WITH \*\* AND \*\*\*\* ARE INCLUDED IN PAYMENT FOR THE INTERCONNECT PAY ITEMS.  
 \*\* DENOTES COUNTY INTERCONNECT AND \*\*\*\* DENOTES MNDOT INTERCONNECT.

**SIGNAL SYSTEM OPERATION**

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 1 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

**CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS**



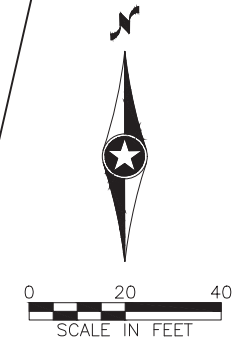
PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

**DETECTOR CHART**

NUMBER	CAMERA	LOCATION
D1-1	V-1	5
D2-1, D2-2	V-2	250
D4-1, D4-2	V-3	250
D4-3, D4-4, D4-5	V-3	5
D6-1, D6-2	V-1	250

-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET

SYSTEM ID: 2564657  
 TE: 13790  
**Ext: 20543**



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 2:10:5 (MS-TECH) | C:\Users\lujames\My Documents\AutoCAD\CAD\_2017\enu\...  
 N:\BMS\SRF-PW\LJAMES@SRFCONSULTING.COM\DMS26347\26-56\_R01.DWG: R1

NO	DATE	BY	CKD	APPR

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
 Print Name: **GEORGE M. STUEMPFEG**  
*George M. Stuempfeg*  
 Date: **2019-04-29** License #: **121849**

COUNTY PROJECT NO. 26-56  
 STATE PROJECT NO. 019-030-008  
 EAGAN PROJECT NO. 195-020-027

DRAWN BY L. JAMES  
 DESIGNED BY L. JAMES  
 CHECKED BY G. STUEMPFEG  
 COMM. NO. 11493



DAKOTA COUNTY  
 TRAFFIC SIGNAL PLANS  
 CSAH 26, 28, 31, & 43 INTERSECTION IMPROVEMENTS  
 SYSTEM R - CSAH 26 (LONE OAK ROAD) AND I-35E WEST RAMPS  
 INTERSECTION LAYOUT  
 SHEET 180 OF 386

- ① PA100 POLE FOUNDATION  
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)  
 1 - ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 2 - STRAIGHT MOUNT SIGNALS OVERHEAD AT 11' AND 23'  
 1 - STRAIGHT MOUNT SIGNAL AT 270 DEG  
 1 - STRAIGHT MOUNT COUNTDOWN PED HEAD AT 270 DEG  
 1 - ANGLE MOUNT COUNTDOWN PED HEAD AT 90 DEG  
 INSTALL - 1 - VIDEO DETECTION CAMERA (STATE FURNISHED) AT 5' (V-1)  
 \*1 - ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT AT 6' (PHASES 1+6)  
 1 - LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)  
 1 - R10-X12 SIGN ADJACENT TO HEAD 1-1 (SEE MAST ARM SIGNING DETAILS)  
 1 - TYPE D SIGN (D-4) (SEE MAST ARM SIGNING DETAILS)  
 3" CONDUIT TO HH 6:  
 2 - 12/C 14  
 2 - 4/C 14  
 1 - 3/C 14 (LUM)  
 \*1 - 3/C 14  
 \*1 - 3/C 20  
 1 - CAT 5E (VIDEO DET)  
 1 - 1/C 6 INS. GR.

- ② PEDESTAL FOUNDATION  
 10' PEDESTAL POLE PLUS BASE  
 1 - STRAIGHT MOUNT COUNTDOWN PED HEAD AT 0 DEG  
 1 - APS PB AND SIGN (LT ARROW) (PB6-1) AND MOUNTING SPACERS  
 1 - R9-3 SIGN (18" x 18") FACING SOUTH  
 3" CONDUIT TO HH 2:  
 1 - 4/C 14  
 1 - 2/C 14  
 1 - 1/C 6 INS. GR.

- ③ PA90 POLE FOUNDATION  
 TYPE PA90-A-30-D40-9 (DAVIT AT 350 DEG)  
 1 - ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 1 - STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'  
 2 - ANGLE MOUNT SIGNALS AT 90 AND 180 DEG  
 1 - ANGLE MOUNT COUNTDOWN PED HEAD AT 180 DEG  
 INSTALL - 1 - VIDEO DETECTION CAMERA (STATE FURNISHED) AT 7' (V-2)  
 \*1 - ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT AT 6' (PHASE 2)  
 1 - LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)  
 2 - TYPE D SIGNS (D-2 AND D-6) (SEE MAST ARM SIGNING DETAILS)  
 1 - R9-3 SIGN (18" x 18") FACING NORTH  
 3" CONDUIT TO HH 3:  
 2 - 12/C 14  
 1 - 4/C 14  
 1 - 3/C 14 (LUM)  
 \*1 - 3/C 14  
 \*1 - 3/C 20  
 1 - CAT 5E (VIDEO DET)  
 1 - 1/C 6 INS. GR.

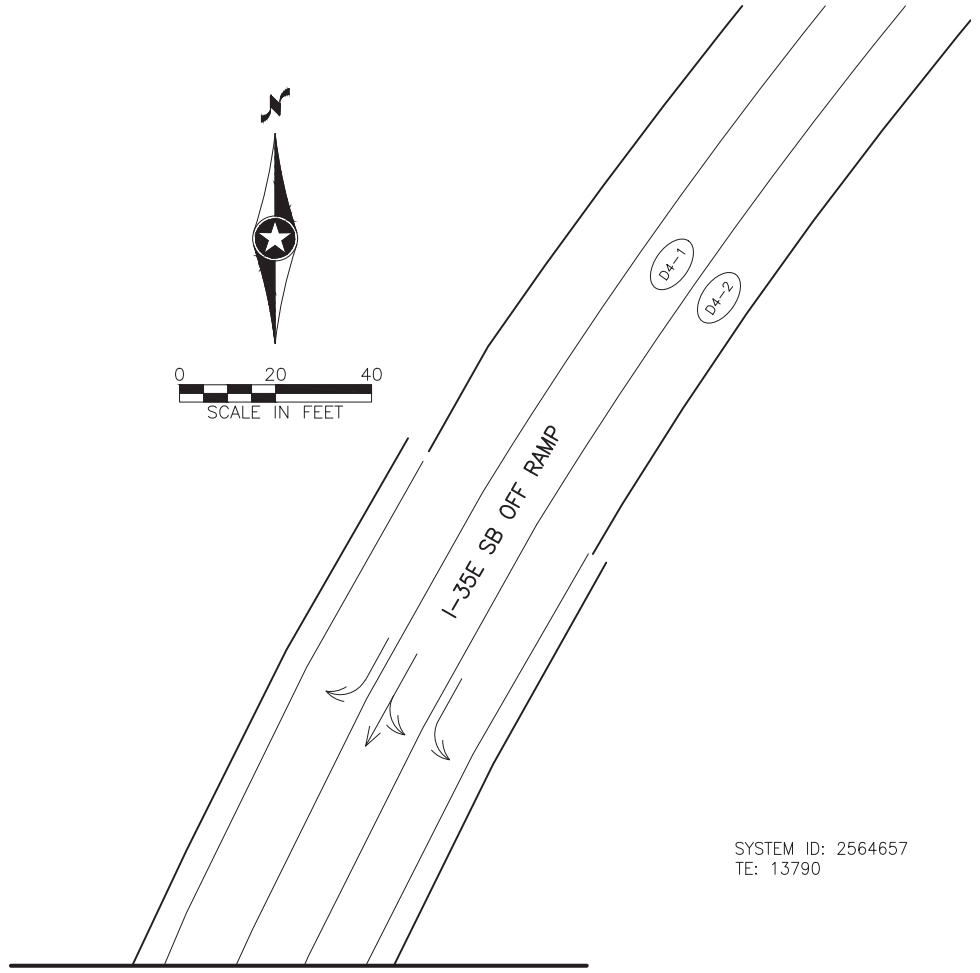
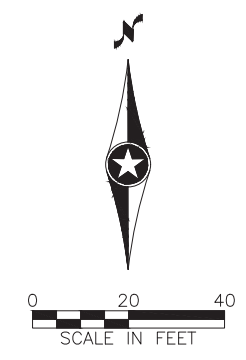
- ④ PA90 POLE FOUNDATION  
 TYPE PA90-A-35-X40-TWIN6 (LUMINAIRE ARMS AT 135 AND 315 DEG)  
 1 - ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 1 - STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'  
 2 - ANGLE MOUNT SIGNALS AT 90 AND 180 DEG  
 2 - ANGLE MOUNT COUNTDOWN PED HEADS AT 90 AND 180 DEG  
 INSTALL - 1 - VIDEO DETECTION CAMERA (STATE FURNISHED) AT 30' (V-3)  
 \*1 - ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT AT 28' (PHASE 4)  
 2 - LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)  
 1 - APS PB AND SIGN (RT ARROW) (PB4-2) AND POLE MOUNT ADAPTOR  
 3" CONDUIT TO HH 4:  
 2 - 12/C 14  
 2 - 4/C 14  
 2 - 3/C 14 (LUM)  
 \*1 - 3/C 14  
 \*1 - 3/C 20  
 1 - 2/C 14  
 1 - CAT 5E (VIDEO DET)  
 1 - 1/C 6 INS. GR.

- Ⓐ EQUIPMENT PAD (SEE DETAIL SHEET)  
 SERVICE CABINET (SSB) NO BATTERY BACKUP SYSTEM OR BATTERIES  
 INSTALL - CONTROLLER AND CABINET (STATE FURNISHED)

- \*\*\*\* FO SPLICE/PATCH PANEL  
 \*\*\*\* FO PIGTAIL TERMINATION
- 3" CONDUIT TO HH 1:  
 1 - 2/C 14
- 3" CONDUIT TO HH 1:  
 1 - 4/C 14  
 1 - 2/C 14  
 1 - 1/C 6 INS. GR.
- 3" CONDUIT TO HH 6:  
 2 - 12/C 14  
 2 - 4/C 14  
 \*1 - 3/C 14  
 \*1 - 3/C 20  
 1 - 2/C 14  
 1 - CAT 5E (VIDEO DET)
- 3" CONDUIT TO HH 6:  
 2 - 12/C 14  
 2 - 4/C 14  
 \*1 - 3/C 14  
 \*1 - 3/C 20  
 2 - 2/C 14  
 1 - CAT 5E (VIDEO DET)  
 1 - 1/C 6 INS. GR.

- \*\* INSTALL - 1 1/2" CONDUIT TO SV 20:  
 \*\* INSTALL - 1 - 1/C 12 (TRACER)
- \*\*\*\* 1.5" NMC TO PV:  
 \*\*\*\* 1 - FO PIGTAIL (6SM)
- 1 - 3" CONDUIT STUBBED OUT OF CONTROLLER CABINET (CAPPED BOTH ENDS)  
 1 - 2" CONDUIT STUBBED OUT OF CONTROLLER CABINET (CAPPED BOTH ENDS)
- CONTROLLER CABINET TO SERVICE CABINET:  
 2" CONDUIT  
 3 - 1/C 6
- CONTROLLER CABINET TO SERVICE CABINET (COMMS):  
 2" CONDUIT  
 1 - 6PR 19
- SERVICE CABINET TO HH 6:  
 2" CONDUIT  
 4 - 3/C 14 (LUM)
- 1 - 2" CONDUIT STUBBED OUT OF SERVICE CABINET (CAPPED BOTH ENDS)
- SERVICE CABINET TO EXTERNAL GROUND ROD:  
 1" CONDUIT  
 1 - 1/C 6 INS. GR.  
 (SEE EQUIPMENT PAD LAYOUT)
- SERVICE CABINET TO SOP:  
 2" CONDUIT  
 3 - 1/C 2

- Ⓑ SOP - GROUND MOUNTED TRANSFORMER (XCEL ENERGY)  
 2" CONDUIT INTO SERVICE CABINET:  
 3 - 1/C 2



SYSTEM ID: 2564657  
 TE: 13790

SEE SHEET 180

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  - THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK.
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  - USE PVC OR HDPE FOR ALL NEW CONDUIT.
  - CONDUIT SIZES ARE NOMINAL DIAMETER.
  - ALL WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).
  - ITEMS DENOTED WITH \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
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NO	DATE	BY	CHKD	APPR

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
 Print Name: GEORGE M. STUEMPFEG  
*George M. Stuempfeg*  
 Date: 2019-04-29 License # 121849

COUNTY PROJECT NO.  
 26-56  
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 195-020-027

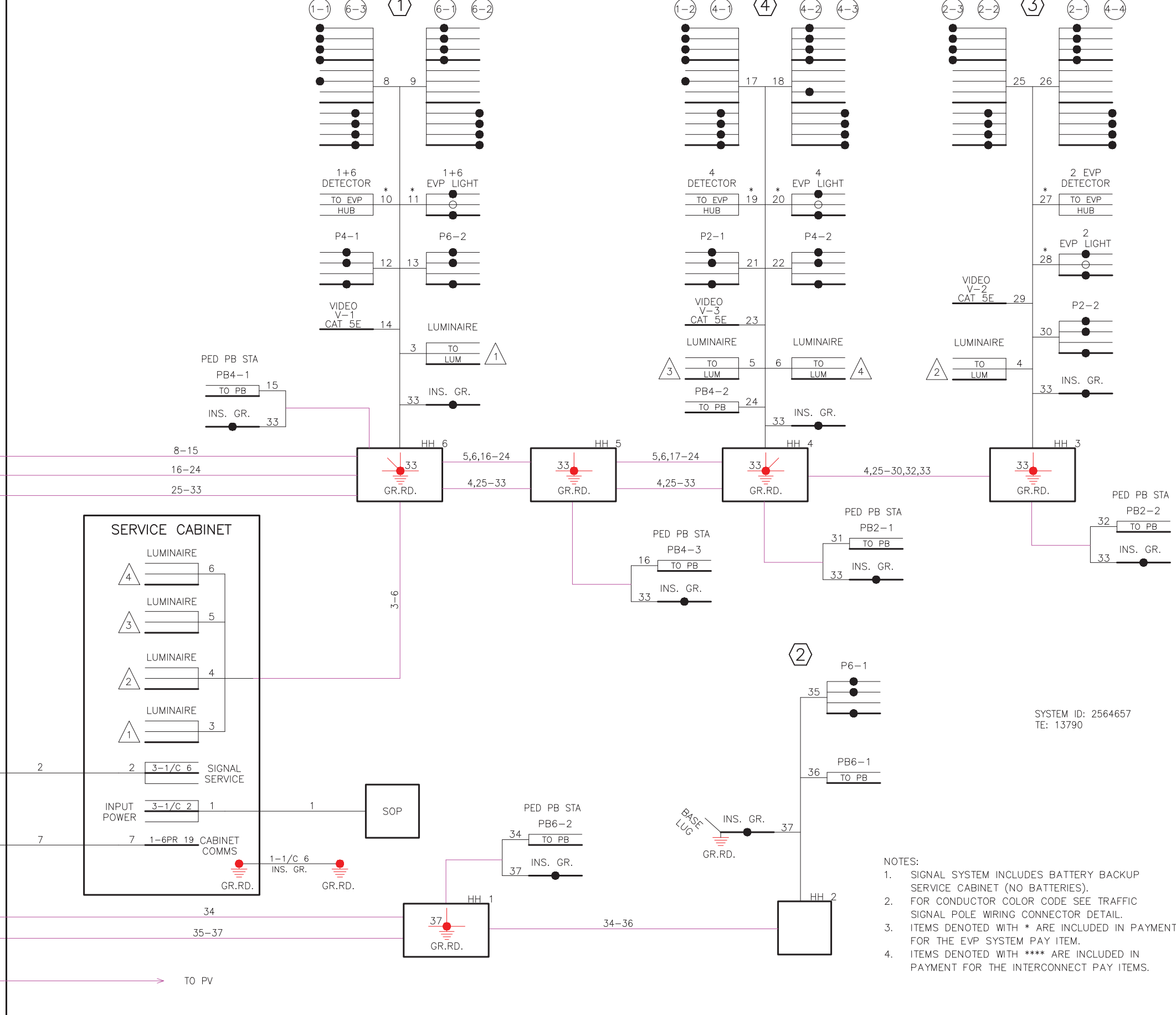
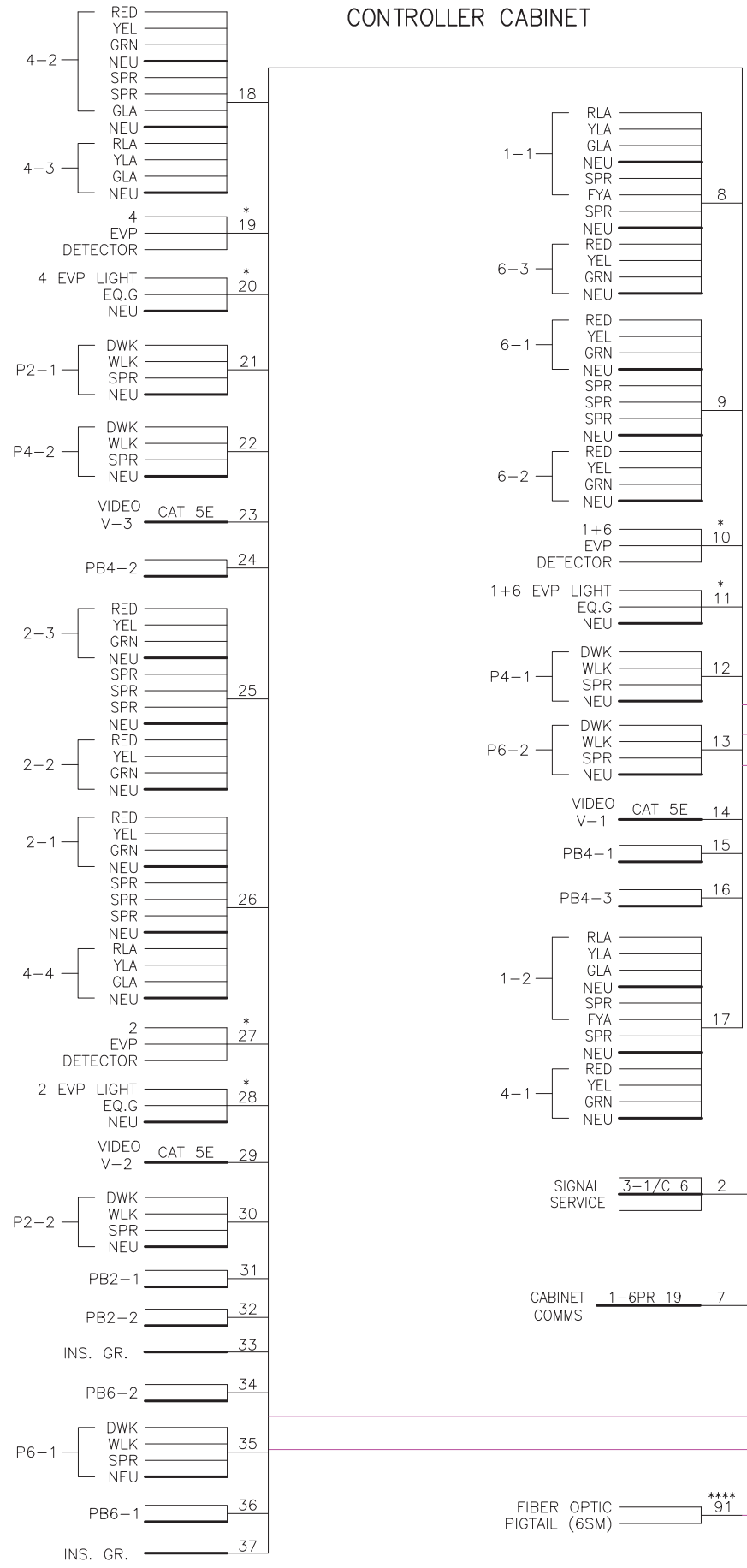
DRAWN BY  
 L. JAMES  
 DESIGNED BY  
 L. JAMES  
 CHECKED BY  
 G. STUEMPFEG  
 COMM. NO. 11493



DAKOTA COUNTY  
 TRAFFIC SIGNAL PLANS  
 CSAH 26, 28, 31, & 43 INTERSECTION IMPROVEMENTS  
 SYSTEM R - CSAH 26 (LONE OAK ROAD) AND I-35E WEST RAMPS  
 INTERSECTION NOTES

SHEET  
 181  
 OF  
 386

CONTROLLER CABINET



SYSTEM ID: 2564657  
TE: 13790

- NOTES:
1. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET (NO BATTERIES).
  2. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.
  3. ITEMS DENOTED WITH \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
  4. ITEMS DENOTED WITH \*\*\*\* ARE INCLUDED IN PAYMENT FOR THE INTERCONNECT PAY ITEMS.

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NO	DATE	BY	CHKD	APPR

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 Print Name: **GEORGE M. STUEMPFEG**  
*George M. Stuempfeg*  
 Date: **2019-04-29** License # **121849**

COUNTY PROJECT NO. 26-56  
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DRAWN BY D. RASMUSSEN  
 DESIGNED BY D. RASMUSSEN  
 CHECKED BY G. STUEMPFEG  
 COMM. NO. 11493



DAKOTA COUNTY  
 TRAFFIC SIGNAL PLANS  
 CSAH 26, 28, 31, & 43 INTERSECTION IMPROVEMENTS  
 SYSTEM R - CSAH 26 (LONE OAK ROAD) AND I-35E WEST RAMPS  
 FIELD WIRING DIAGRAM

SHEET 182 OF 386

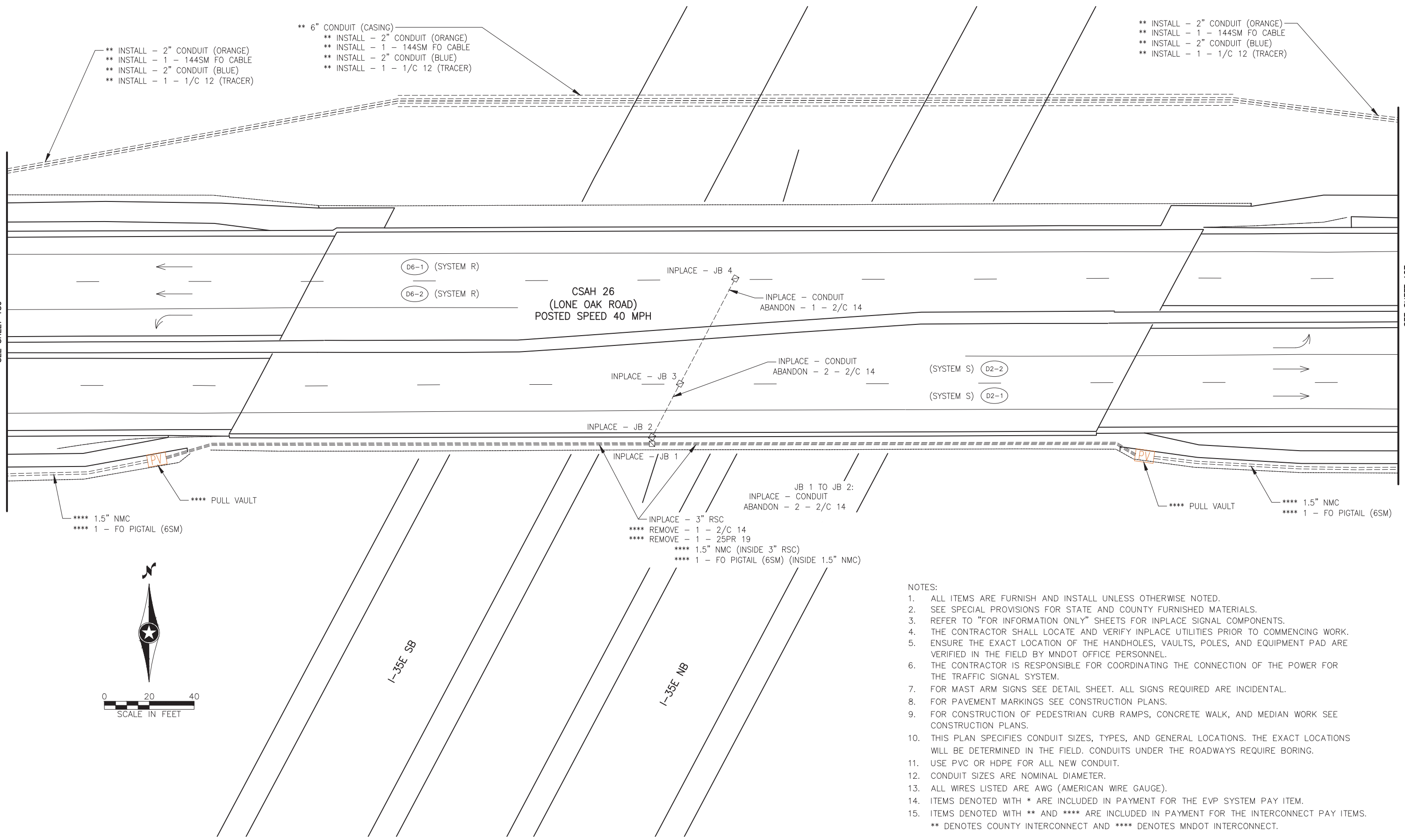
SEE SHEET 180

SEE SHEET 187

\*\* INSTALL - 2" CONDUIT (ORANGE)  
 \*\* INSTALL - 1 - 144SM FO CABLE  
 \*\* INSTALL - 2" CONDUIT (BLUE)  
 \*\* INSTALL - 1 - 1/C 12 (TRACER)

\*\* 6" CONDUIT (CASING)  
 \*\* INSTALL - 2" CONDUIT (ORANGE)  
 \*\* INSTALL - 1 - 144SM FO CABLE  
 \*\* INSTALL - 2" CONDUIT (BLUE)  
 \*\* INSTALL - 1 - 1/C 12 (TRACER)

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LUKE JAMES | 4/25/2019 12:38:55 PM  
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NO	DATE	BY	CKD	APPR

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
 Print Name: GEORGE M. STUEMPFIG  
*George M. Stuempfig*  
 Date: 2019-04-29 License # 121849

COUNTY PROJECT NO.  
26-56  
 STATE PROJECT NO.  
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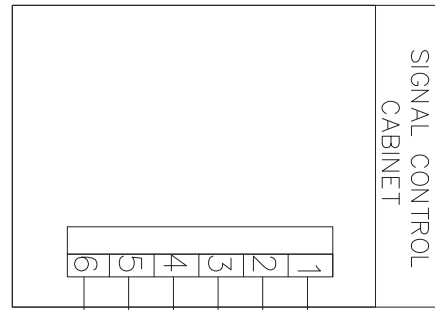
DRAWN BY  
L. JAMES  
 DESIGNED BY  
L. JAMES  
 CHECKED BY  
G. STUEMPFIG  
 COMM. NO. 11493



DAKOTA COUNTY  
 TRAFFIC SIGNAL PLANS  
 CSAH 26, 28, 31, & 43 INTERSECTION IMPROVEMENTS  
 INTERCONNECT LAYOUT

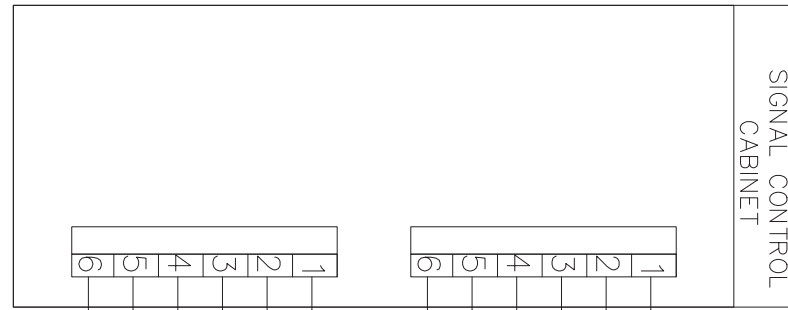
SHEET  
184  
 OF  
386

SIGNAL CONTROL CABINET SYSTEM R



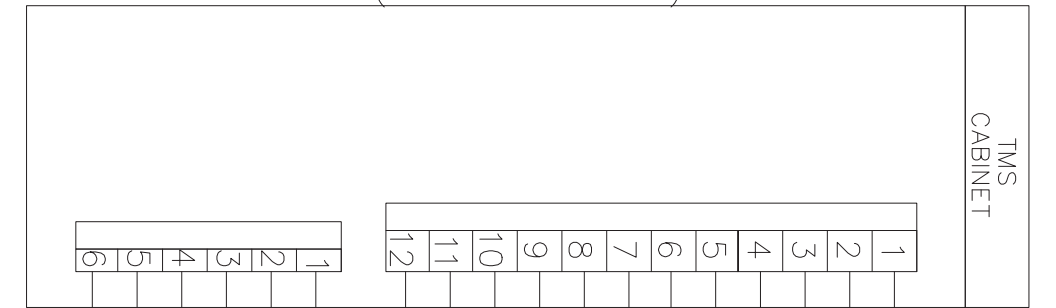
PIGTAIL ID#  
SIG 20543 6SM

SIGNAL CONTROL CABINET SYSTEM S



PIGTAIL ID#  
SIG 20541 6SM

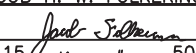
GROUND MOUNTED TMS CABINET  
(CAB 35E-98.5)



PIGTAIL ID#  
POLE 35E-98.5

LUKE JAMES | 3/15/2019 11:27:52 AM  
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NO	DATE	BY	CKD	APPR

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
 Print Name: JACOB H. W. FOLKERINGA  
  
 Date 2019-03-15 License # 50911

COUNTY PROJECT NO.  
26-56  
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DRAWN BY  
D. RICKBEIL  
 DESIGNED BY  
Z. HANSON  
 CHECKED BY  
J. FOLKERINGA  
 COMM. NO. 11493



DAKOTA COUNTY  
 TRAFFIC SIGNAL PLANS  
 CSAH 26, 28, 31, & 43 INTERSECTION IMPROVEMENTS  
 INTERCONNECT SCHEMATIC

SHEET  
185  
OF  
386