

VIDEO DETECTOR CHART
(V-1) = VIDEO DETECTION CAMERA 360°

SIGNAL SYSTEM OPERATION
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 3 PHASE.
- PHASE 8 SHALL BE ON VEHICLE RECALL.

SIGNAL HEAD CHART

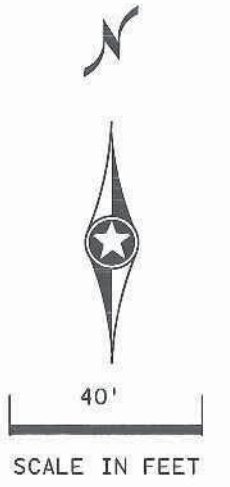
FACE	R	Y	G
8-1, 8-2	●	→	→
2-1, 2-2, 6-1, 6-2	●	▲	▲
8-3, 8-4	●	←	←

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
-ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS

STOP BAR PAVEMENT MARKINGS ①

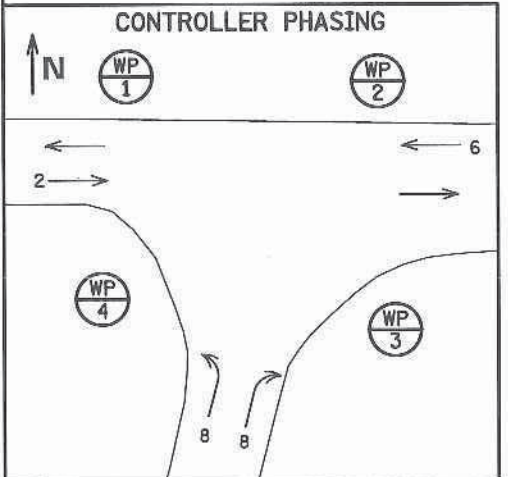
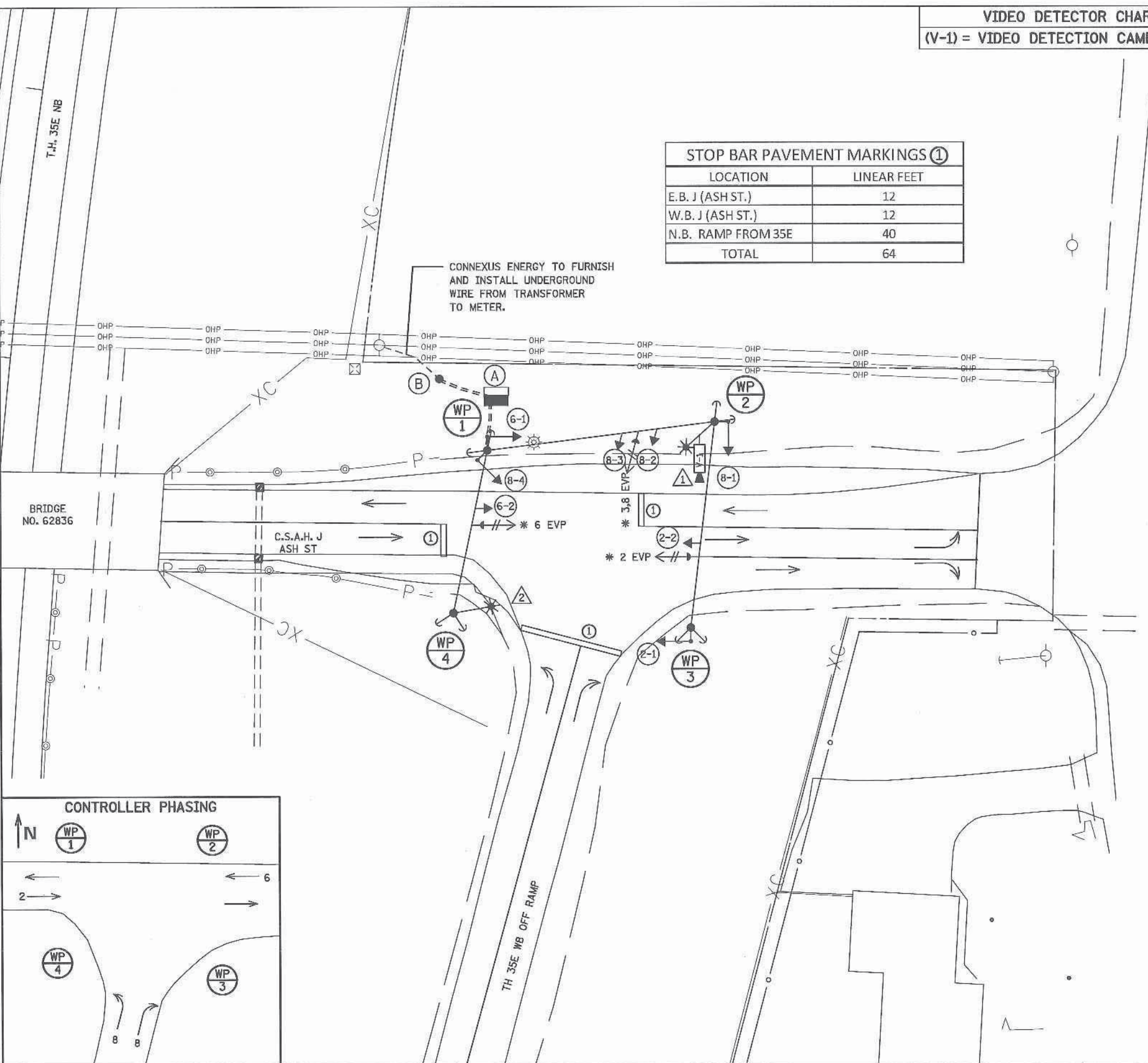
LOCATION	LINEAR FEET
E.B. J (ASH ST.)	12
W.B. J (ASH ST.)	12
N.B. RAMP FROM 35E	40
TOTAL	64

CONNEXUS ENERGY TO FURNISH AND INSTALL UNDERGROUND WIRE FROM TRANSFORMER TO METER.



PLOTTED/REVISED: 18-MAR-2020

DISTRICT #: Metro
IPLOT NAME: LAYOUT B
PATH & FILENAME: Projects\DM_F05\035E\6281\052\Traffic\Signals\T6281-52_sgl.dgn



- NOTES:**
- SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
 - ENSURE THE EXACT LOCATION OF THE POLES, AND EQUIPMENT PAD ARE VERIFIED IN THE FIELD BY MNDOT OFFICE PERSONNEL.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TRAFFIC SIGNAL SYSTEM.
 - THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
 - USE PVC OR HDPE FOR ALL NEW CONDUIT.
 - CONDUIT SIZES ARE NOMINAL DIAMETER.
 - ALL WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).
 - ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
- ① STOP BAR PAVEMENT MARKING. 24" WIDE SOLID WHITE LINE, PREFORMED THERMOPLASTIC, GROUND IN, ENHANCED SKID RESISTANCE. PAID FOR UNDER ITEM 2582 "24" SOLID LINE PREF THERMO GR IN ESR" BY THE LIN. FT.

BY	DATE	REVISIONS	SYSTEM ID: 4021454	T.E. 22512	S.A.P. NO.	DRAWN BY: JBA	CKD BY: CDB	DATE: 3-17-20
			METER ADDRESS:		CERTIFIED BY: <i>Michael P. Gubinsky</i>	LIC. NO. 19863	DATE: 3-18-20	
			OLD SYSTEM ID:		STATE PROJ. NO. 6281-52 (T.H.35E) SHEET NO. 7 OF 12 SHEETS			

PLOTTED/REVISED: 18-MAR-2020

DISTRICT #: Metro
PLOT NAME: NOTES B
PATH & FILENAME: Projects\DM_POS\035E\6281-52\Traffic\SIGNALS\T6281-52_sgl.dgn

WP
1

50' WOOD POLE
2-DOWN GUYS, GUARDS AND ANCHORS
2-TYPE 10A-WOOD POLE MOUNTED AT 90° AND 180° (8-4)(6-1)

4" CONDUIT RISER AND WEATHERHEAD FROM SIGNAL CABINET TO SPAN WIRES WITH:
6-4/C 14
3-3/C 14*
3-3/C 20*
1-COM CABLE (V-1 DETECTION)
1-1/C 6 INS GR.

2" CONDUIT FROM SIGNAL CABINET TO JUNCTION BOX WITH:
2-4/C 14

2" CONDUIT RISER AND WEATHERHEAD FROM SERVICE EQUIPMENT TO SPAN WIRES WITH:
2-3/C 14(LUM)

SPAN WIRE BETWEEN POLES 1-2
2- (3) SECTION HEADS (8-3)(8-2)
1-ONEWAY EVP DETECTOR AND CONFIRMATION LIGHT (PHASE 3&8)

WP
2

50' WOOD POLE
2-DOWN GUYS, GUARDS AND ANCHORS
1-VIDEO DETECTION CAMERA 360° (V-1) MOUNTED ON LUMIAIRE EXTENSION (STATE FURNISHED)
LUMINAIRE (LED) WITH PEC.
1-TYPE 10A-WOOD POLE MOUNTED AT 90° (8-1)

2" CONDUIT ABOVE JUNCTION BOX TO SPAN WIRES WITH:
1-4/C 14

2" CONDUIT RISER AND WEATHERHEAD ABOVE SPAN WIRE WITH:
1-3/C 14 (LUM)
1-CAT5E CABLE (V-1 VID DET 360°) (STATE FURNISHED)

A

TEMPORARY SIGNAL CABINET BASE (40" X 58")
SIGNAL CABINET W/CONTROLLER (STATE FURNISHED)

4" CONDUIT FROM CONTROLLER CABINET TO HH 1:
8-4/C 14
2-3/C 14*
2-3/C 20*
1-CAT5E CABLE (V-1 VID DET 360°)
1-1/C 6 INS GR.

SPAN WIRE BETWEEN POLES 2-3
1- (3) SECTION HEAD (2-2)
1-ONEWAY EVP DETECTOR AND CONFIRMATION LIGHT (PHASE 2)

SPAN WIRE BETWEEN POLES 1-4
1-(3) SECTION HEAD (6-2)
1-ONEWAY EVP DETECTOR AND CONFIRMATION LIGHT (PHASE 6)

B

SOP (INPLACE POLE MOUNTED 120/240V TRANSFORMER)

10' WOOD POLE WITH SERVICE EQUIPMENT AND DISCONNECT

2" CONDUIT FROM SERVICE EQUIPMENT TO SIGNAL CABINET:
3-1/C 6

2" CONDUIT FROM SERVICE EQUIPMENT TO WOOD POLE NO. 1:
2-3/C 14 (LUM)

CONNEXUS ENERGY WILL F&I CABLE (BURIED) FROM THE EXISTING
POLE MOUNTED TRANSFORMER AND CONNECT TO THE METER.

WP
4

50' WOOD POLE
2-DOWN GUYS, GUARDS AND ANCHORS
LUMINAIRE (LED) WITH PEC.

2" CONDUIT RISER AND WEATHERHEAD ABOVE SPAN WIRE WITH:
1-3/C 14 (LUM)

WP
3

50' WOOD POLE
2-DOWN GUYS, GUARDS AND ANCHORS
1-TYPE 10A-WOOD POLE MOUNTED AT 90° (2-1)

2" CONDUIT ABOVE JUNCTION BOX TO SPAN WIRES WITH:
1-4/C 14

BY	DATE	REVISIONS	SYSTEM ID: 4021454	T.E. 22512	S.A.P. NO.	DRAWN BY: JBA	CKD BY: CDB	DATE: 3-17-20
			METER ADDRESS:		CERTIFIED BY: <i>Michael P. Subrinsky</i>	LIC. NO. 19863	DATE: 3-18-20	
			OLD SYSTEM ID:		STATE PROJ. NO. 6281-52 (T.H. 35E) SHEET NO. 8 OF 12 SHEETS			

INTERSECTION NOTES (E. RAMP)
TRAFFIC CONTROL SIGNAL SYSTEM "B"
T.H. 35E AT CR. RD. J (ASH ST)
IN WHITE BEAR LAKE, RAMSEY COUNTY

