

(3) INPLACE: TYPE PA90-30-D40-9 (DAVIT AT 350 DEG)
 PA90 POLE FOUNDATION
 2-ONE WAY SIGNALS OVERHEAD AT 0' AND 11'
 1-TYPE 10B AT 270 DEG
 1-ONEWAY EVP DETECTOR AND LIGHT (PHASES 2+5)
 LUMINAIRE - 250 WATT H.P.S. WITH PEC & CHECK SWITCH
 REMOVE: 1-PED INDICATION (P2-2)
 1-PED PB AND SIGN
 F&I: 1-C.D. PED INDICATION (P2-2)
 INPLACE: EXTEND INTO HH 5:
 3" CONDUIT
 1-12/C 12
 3-3/C 12
 1-3/C 12 (LUM)
 1-3/C 20

(2) INPLACE: TYPE PA90-35
 PA90 POLE FOUNDATION
 1-ONE WAY SIGNAL OVERHEAD
 1-TYPE 10A AT 0 DEG
 1-TYPE 10A AT 270 DEG
 1-ONEWAY EVP DETECTOR AND LIGHT (PHASE 4)
 1-R9-3a SIGN FACING POLE 3
 EXTEND INTO HH 4:
 3" CONDUIT
 1-12/C 12
 1-3/C 12
 1-3/C 20

INPLACE: 3" CONDUIT
 2-12/C 12
 4-3/C 12
 1-3/C 12 (LUM)
 4-2/C 14
 1-3/C 20

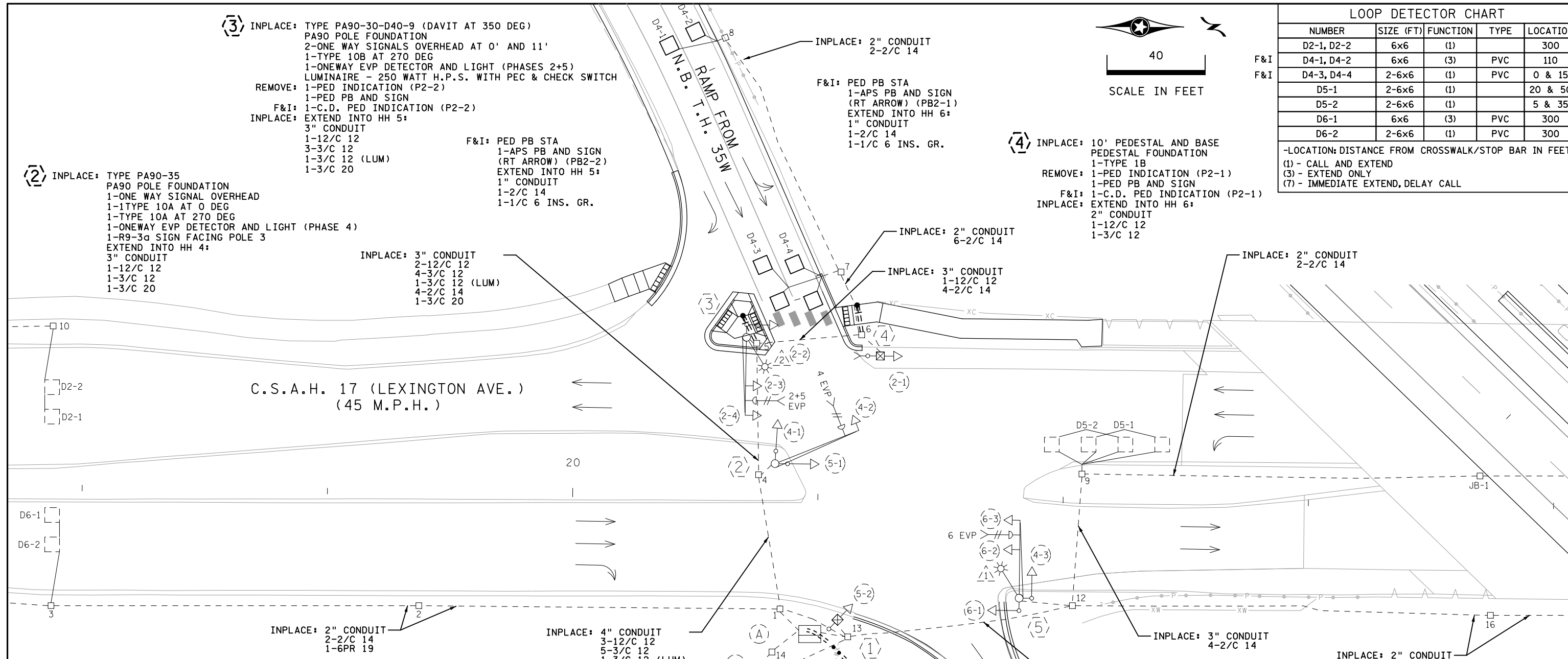
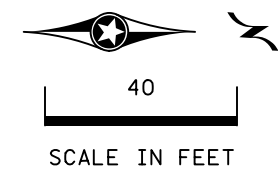
F&I: PED PB STA
 1-APS PB AND SIGN
 (RT ARROW) (PB2-2)
 EXTEND INTO HH 5:
 1" CONDUIT
 1-2/C 14
 1-1/C 6 INS. GR.

F&I: PED PB STA
 1-APS PB AND SIGN
 (RT ARROW) (PB2-1)
 EXTEND INTO HH 6:
 1" CONDUIT
 1-2/C 14
 1-1/C 6 INS. GR.

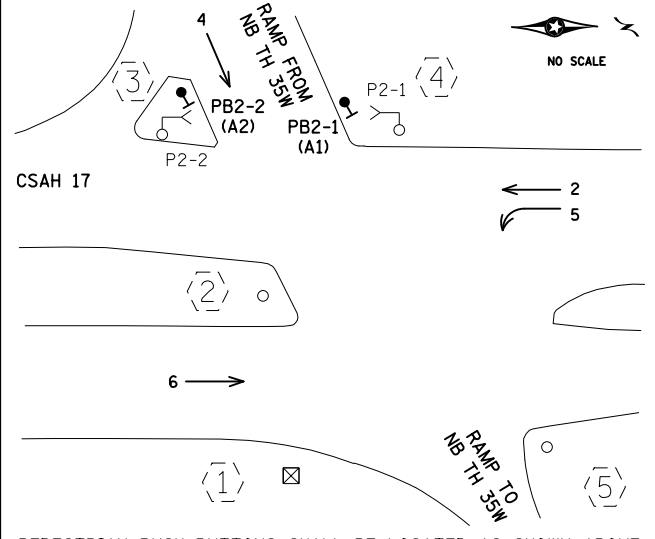
(4) INPLACE: 10' PEDESTAL AND BASE
 PEDESTAL FOUNDATION
 1-TYPE 1B
 REMOVE: 1-PED INDICATION (P2-1)
 1-PED PB AND SIGN
 F&I: 1-C.D. PED INDICATION (P2-1)
 INPLACE: EXTEND INTO HH 6:
 2" CONDUIT
 1-12/C 12
 1-3/C 12

LOOP DETECTOR CHART				
NUMBER	SIZE (FT)	FUNCTION	TYPE	LOCATION
D2-1, D2-2	6x6	(1)		300
D4-1, D4-2	6x6	(3)	PVC	110
D4-3, D4-4	2-6x6	(1)	PVC	0 & 15
D5-1	2-6x6	(1)		20 & 50
D5-2	2-6x6	(1)		5 & 35
D6-1	6x6	(3)	PVC	300
D6-2	2-6x6	(1)	PVC	300

-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET
 (1) - CALL AND EXTEND
 (3) - EXTEND ONLY
 (7) - IMMEDIATE EXTEND, DELAY CALL



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



(A) INPLACE: EQUIPMENT PAD - SEE DETAIL
 CONTROLLER AND CABINET
 4" CONDUIT TO HH 1:
 3-12/C 12
 5-3/C 12
 6-2/C 14
 2-3/C 20
 1-6PR 19
 4" CONDUIT TO HH 13:
 3-12/C 12
 1-3/C 12
 4-2/C 14
 1-3/C 20
 1-6PR 19
 2" CONDUIT HH 1 TO HH 13:
 2-3/C 12 (LUM)
 2" CONDUIT TO HH 15:
 3-1/C 6
 2-3" CONDUITS STUBBED OUT
 AND CAPPED TO WEST
 F&I: 3" CONDUIT TO PV:
 1-FO CABLE (6SM)

(1) INPLACE: 10' PEDESTAL AND BASE
 PEDESTAL FOUNDATION
 1-TYPE 1A
 EXTEND INTO HH 13:
 2" CONDUIT
 1-12/C 12
 1-3/C 12

(B) INPLACE: SERVICE CABINET FOUNDATION
 2" CONDUIT TO HH 14:
 3-1/C 6
 2" CONDUIT TO HH 13:
 2-3/C 12 (LUM)
 2" CONDUIT TO HH 15:
 3-1/C 6

(C) INPLACE: NSP WOOD POLE
 2" CONDUIT RISER AND WEATHERHEAD
 3-1/C 6
 2" CONDUIT TO HH 15:
 3-1/C 6

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
 - PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

SYSTEM ID = 1736095

NOTES:
 1. ALL ITEMS ON THIS SHEET ARE INPLACE AND SHALL REMAIN INPLACE UNLESS NOTED OTHERWISE.
 2. SEE INTERSECTION DETAILS FOR ADA PED RAMP CONSTRUCTION AND APS PUSH BUTTON LOCATIONS.
 3. SEE SIGNAL INTERCONNECT PLAN FOR INTERCONNECTION SYSTEM CONSTRUCTION.
 4. SEE TMS PLANS FOR INTERCONNECT TIE-INS.

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NO	DATE	DWN	CKD	REVISIONS
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1	06/25/21	KAS	MPM	FDC 379
2	12/03/21			RECORD DRAWING

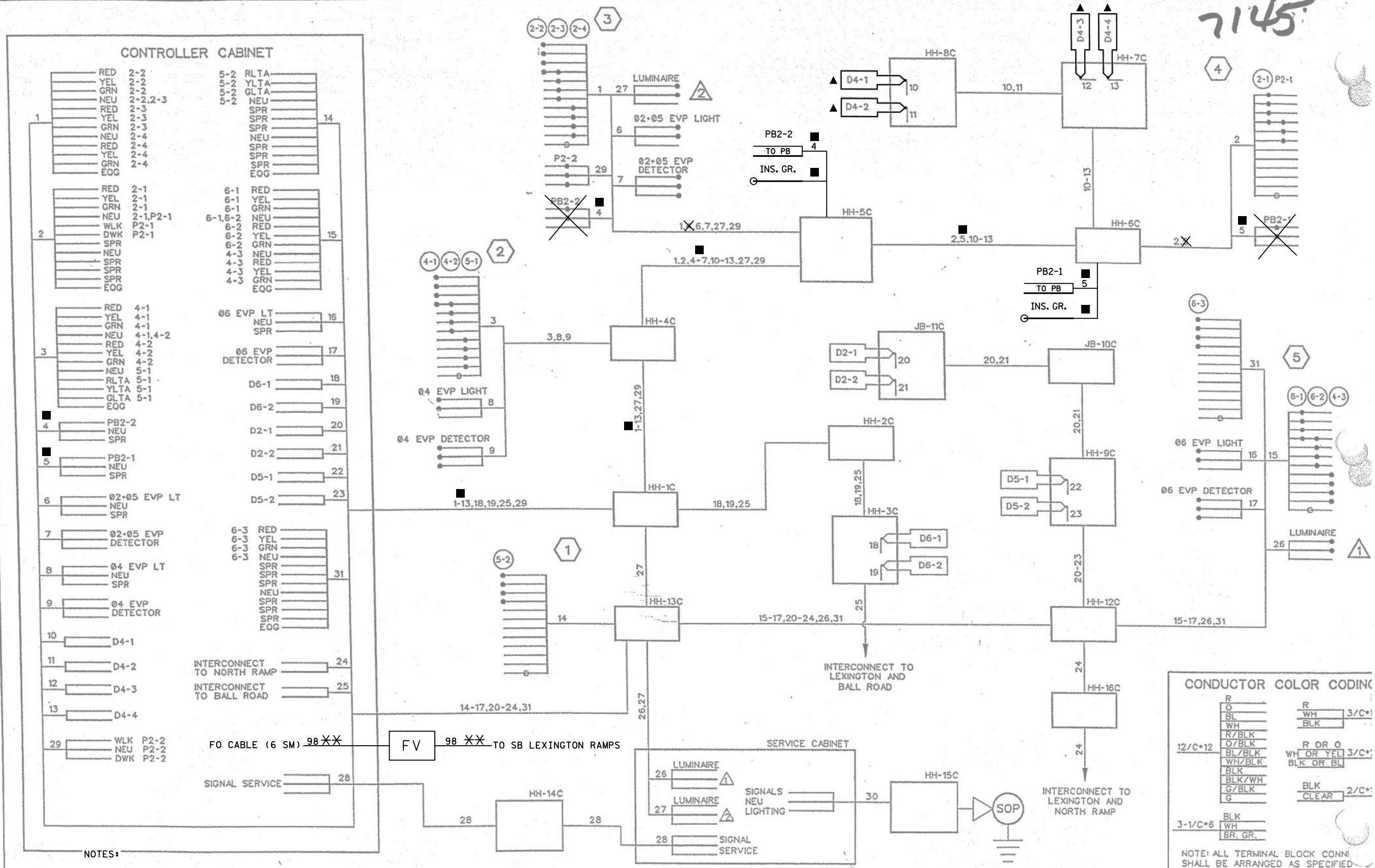


RECORD DRAWING NOTE: THESE RECORD DRAWINGS WERE DEVELOPED BASED ON THE PREVIOUS DRAWING REVISIONS AND INFORMATION TRANSMITTED FROM THE FIELD BY OTHERS. THE INFORMATION CONTAINED WITHIN THIS RECORD AS-BUILT PLAN REPRESENTS THE ACTUAL CONDITIONS FOR ALL CHANGES OF WHICH ALLIANT IS AWARE. FUTURE USERS OF THESE DRAWINGS SHOULD VERIFY AS-BUILT CONDITIONS IN THE FIELD IN ALL CIRCUMSTANCES.

REVISE SIGNAL SYSTEM "F" LAYOUT
 T.H. 35W NB RAMPS & LEXINGTON AVE

I-35W NORTH MNPASS DB (S.P. 6284-180)
 SHEET NO. SGL24 OF SGL45 SHEETS

7145



NOTES:

- DENOTES INPLACE CABLES TO BE SALVAGED & INSTALLED OR REMOVED AND NEW CABLES FURNISHED & INSTALLED BY CONTRACTOR.
- ▲ DENOTES SIGNAL DETECTORS TO BE FURNISHED & INSTALLED BY CONTRACTOR.
- ✖✖ DENOTES INTERCONNECT CABLE TO BE FURNISHED & INSTALLED BY CONTRACTOR.

CONDUCTOR COLOR CODING

R	R
O	WH 3/C*
BL	BLK
WH	
R/BLK	R OR O
O/BLK	WH OR YEL 3/C*
BL/BLK	BLK OR BL
WH/BLK	
BLK	BLK/WH
BLK/WH	BLK
G/BLK	CLEAR 2/C*
G	
3-1/C*6	BLK
	WH
	BR. GR.

NOTE: ALL TERMINAL BLOCK CONN SHALL BE ARRANGED AS SPECIFIED

SYSTEM ID: 1736095
T.E. #: 19996

ANOKA COUNTY
FIELD WIRING DIAGRAM
C.S.A.H. 17 RECONSTRUCTION

9:24:30 AM 12/3/2021 Projects\2018\18005\CONSTRUCTION\Plan Sheets\cd6284180_cb_sg1111.dgn

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1	12/03/21			RECORD DRAWING



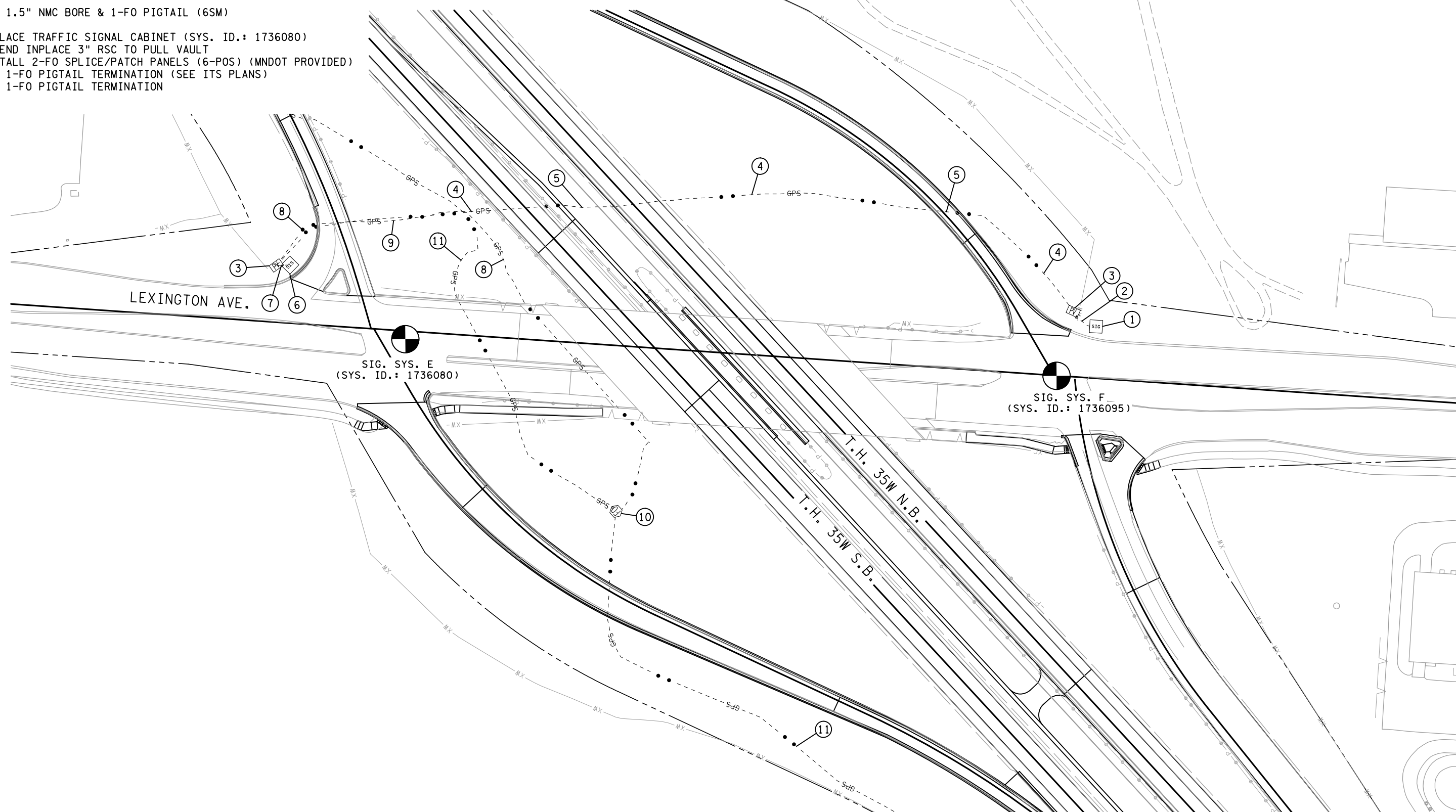
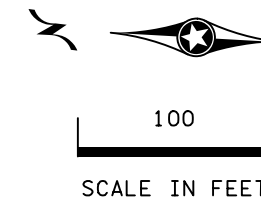
RECORD DRAWING NOTE: THESE RECORD DRAWINGS WERE DEVELOPED BASED ON THE PREVIOUS DRAWING REVISIONS AND INFORMATION TRANSMITTED FROM THE FIELD BY OTHERS. THE INFORMATION CONTAINED WITHIN THIS RECORD AS-BUILT PLAN REPRESENTS THE ACTUAL CONDITIONS FOR ALL CHANGES OF WHICH ALLIANT IS AWARE. FUTURE USERS OF THESE DRAWINGS SHOULD VERIFY AS-BUILT CONDITIONS IN THE FIELD IN ALL CIRCUMSTANCES.

REVISE SIGNAL SYSTEM "F" WIRING DIAGRAM
T.H. 35W NB RAMPS & LEXINGTON AVE

I-35W NORTH MNPASS DB (S.P. 6284-180)
SHEET NO. SGL25 OF SGL45 SHEETS

- ① INPLACE TRAFFIC SIGNAL CABINET (SYS. ID.: 1736095)
EXTEND INPLACE 3" RSC TO PULL VAULT
INSTALL 1-FO SPLICE/PATCH PANEL (6-POS) (MNDOT PROVIDED)
F&I 1-FO PIGTAIL TERMINATION
- ② F&I 3" NMC & 1-FO PIGTAIL (6SM)
- ③ F&I PULL VAULT
NOTE: COIL 50' OF FIBER IN VAULT.
- ④ F&I 1.5" NMC & 1-FO PIGTAIL (6SM)
- ⑤ F&I 1.5" NMC BORE & 1-FO PIGTAIL (6SM)
- ⑥ INPLACE TRAFFIC SIGNAL CABINET (SYS. ID.: 1736080)
EXTEND INPLACE 3" RSC TO PULL VAULT
INSTALL 2-FO SPLICE/PATCH PANELS (6-POS) (MNDOT PROVIDED)
F&I 1-FO PIGTAIL TERMINATION (SEE ITS PLANS)
F&I 1-FO PIGTAIL TERMINATION

- ⑦ F&I 3" NMC & 1-FO PIGTAIL (6SM) (SEE ITS PLANS)
F&I 1-FO PIGTAIL (6SM)
- ⑧ F&I 1.5" NMC BORE & 1-FO PIGTAIL (6SM) (SEE ITS PLANS)
- ⑨ F&I 1.5" NMC & 1-FO PIGTAIL (6SM) (SEE ITS PLANS)
- ⑩ INPLACE FO SPLICE VAULT & OUTDOOR FO SPLICE ENCL.
F&I FO CABLE SPLICING (SEE ITS PLANS)
- ⑪ INPLACE 1.5" NMC & 1-FO CABLE (72SM)



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NO	DATE	DWN	CKD	REVISIONS
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1	12/03/21			RECORD DRAWING



RECORD DRAWING NOTE: THESE RECORD DRAWINGS WERE DEVELOPED BASED ON THE PREVIOUS DRAWING REVISIONS AND INFORMATION TRANSMITTED FROM THE FIELD BY OTHERS. THE INFORMATION CONTAINED WITHIN THIS RECORD AS-BUILT PLAN REPRESENTS THE ACTUAL CONDITIONS FOR ALL CHANGES OF WHICH ALLIANT IS AWARE. FUTURE USERS OF THESE DRAWINGS SHOULD VERIFY AS-BUILT CONDITIONS IN THE FIELD IN ALL CIRCUMSTANCES.

SIGNAL INTERCONNECT PLAN
T.H. 35W AT LEXINGTON AVE.

I-35W NORTH MNPASS DB (S.P. 6284-180)
SHEET NO. IC06 OF IC06 SHEETS

7145

LOOP DETECTOR CHART			DISTANCE FROM STOP LINE
DESIGNATION	SIZE	FUNCTION	
D2-1	1-1.7m x 1.7m	(1)	92m
D2-2	1-1.7m x 1.7m	(1)	92m
D4-1	1-1.7m x 1.7m	(3)	35m
D4-2	1-1.7m x 1.7m	(3)	35m
D4-3	2-1.7m x 1.7m	(1)	0m, 4.6m
D4-4	2-1.7m x 1.7m	(1)	0m, 4.6m
D5-1	2-1.7m x 1.7m	(1)	6.1m, 15.2m
D5-2	2-1.7m x 1.7m	(1)	1.5m, 10.7m
D6-1	1-1.7m x 1.7m	(1)	92m
D6-2	1-1.7m x 1.7m	(1)	92m

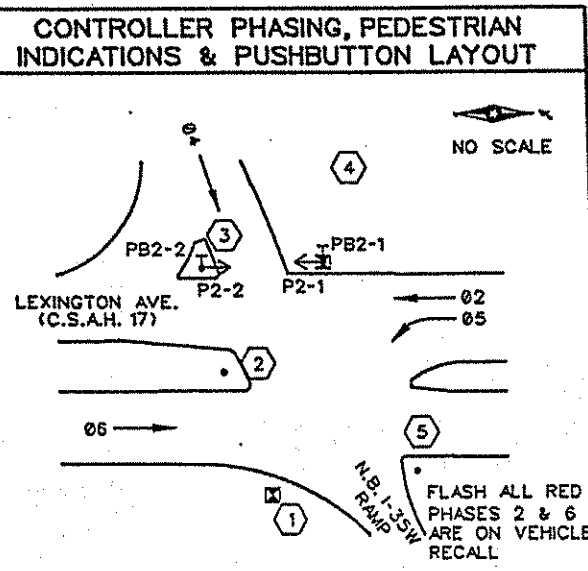
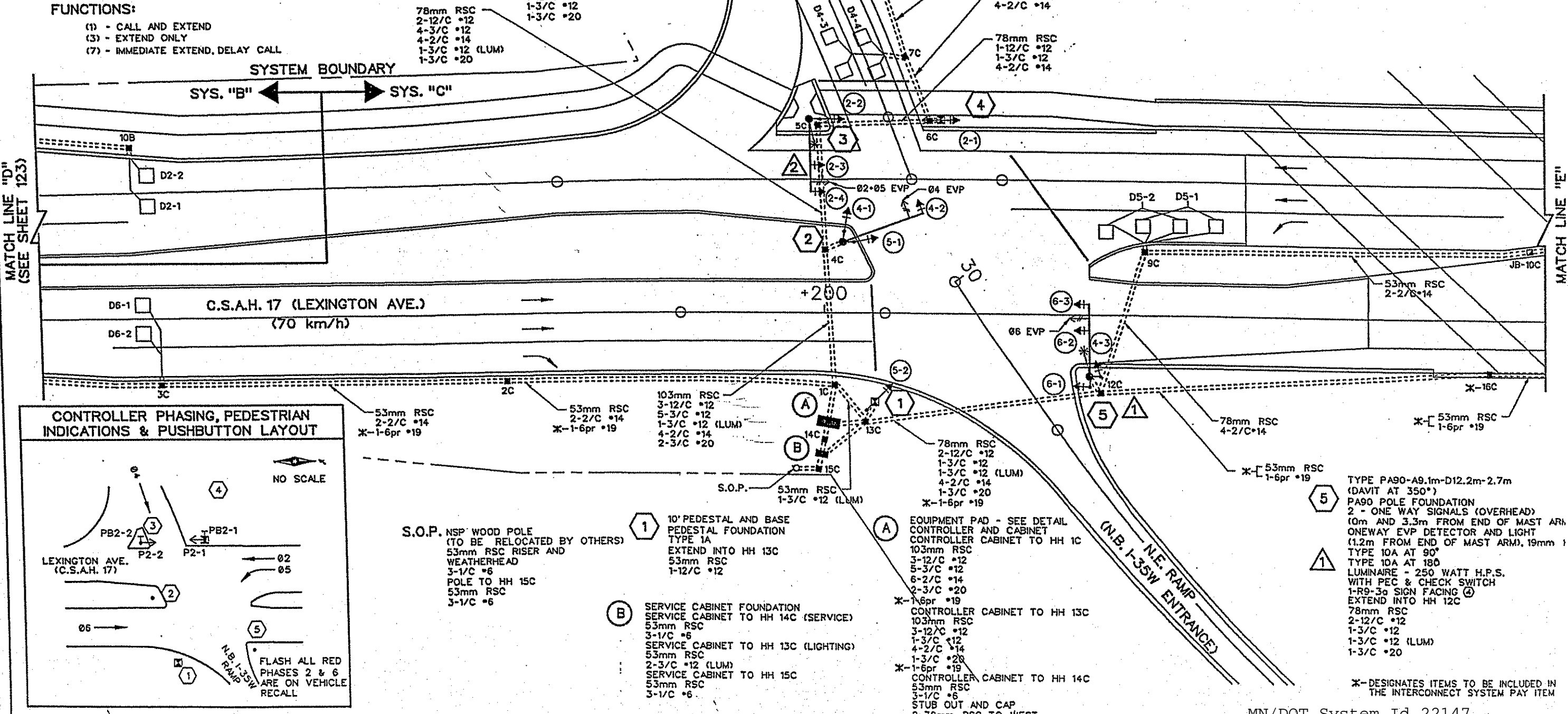
3 TYPE PA90-A9.1m-D12.2m-2.7m (DAVIT AT 350°)
PA90 POLE FOUNDATION
2 - ONE WAY SIGNALS (OVERHEAD)
(0m AND 3.3m FROM END OF MAST ARM)
ONEWAY EVP DETECTOR AND LIGHT
(1.2m FROM END OF MAST ARM), 19mm HUB
TYPE 10B AT 270°
LUMINAIRE - 250 WATT H.P.S.
WITH PEC & CHECK SWITCH
1- PEDESTRIAN PUSH BUTTON & SIGN
EXTEND INTO HH 5C
78mm RSC
2-12/C *12
4-3/C *12
4-2/C *14
1-3/C *12 (LUM)
1-3/C *20

2 TYPE PA90-A10.7m
PA90 POLE FOUNDATION
1 - ONE WAY SIGNALS (OVERHEAD)
(0m FROM END OF MAST ARM)
ONEWAY EVP DETECTOR AND LIGHT
(1.8m FROM END OF MAST ARM), 19mm HUB
TYPE 10A AT 0°
TYPE 10A AT 270°
1-R9-3a SIGN FACING (3)
EXTEND INTO HH 4C
78mm RSC
1-12/C *12
1-3/C *12
1-3/C *20

4 10' PEDESTAL AND BASE
PEDESTAL FOUNDATION
TYPE 1B
1 - PEDESTRIAN PUSH BUTTON & SIGN
EXTEND INTO HH 6C
53mm RSC
1-12/C *12
1-3/C *12

- NOTES:
- 1) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED EQUIPMENT.
 - 2) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - 3) SEE SHEET 119 AND SPECIAL PROVISIONS FOR SERVICE CABINET DETAILS.
 - 4) TYPE D SIGNS SHALL BE FURNISHED AND INSTALLED ON MAST ARM POLES 1, 2, 3 AND 4. SEE SPECIAL PROVISIONS.
 - 5) SEE SPECIAL PROVISIONS FOR HANDHOLE TYPE.
 - 6) SEE SPECIAL PROVISIONS FOR CONTRACTORS RESPONSIBILITY FOR LOCATION OF UTILITIES.
 - 7) ALL PEDESTRIAN INDICATIONS SHALL BE MAN/HAND (SEE SPECIAL PROVISIONS).
 - 8) ALL SIGNAL FACES SHALL BE 300mm - 3 SECTION R-Y-G, EXCEPT (5-1) (5-2) WHICH SHALL BE 300mm - 3 SECTION RLTA, YLTA AND GLTA.
 - 9) ALL VEHICLE SIGNAL INDICATIONS AND PEDESTRIAN INDICATIONS SHALL USE GLASS LENSES, EXCEPT RED INDICATIONS WHICH SHALL USE LED TECHNOLOGY.
 - 10) CONDUIT AND JUNCTION BOXES ON BRIDGE TO BE INCLUDED IN BRIDGE PAY ITEMS.

FUNCTIONS:
(1) - CALL AND EXTEND
(3) - EXTEND ONLY
(7) - IMMEDIATE EXTEND, DELAY CALL



53mm RSC 2-2/C *14 *-1-6pr *19

53mm RSC 2-2/C *14 *-1-6pr *19

103mm RSC 3-12/C *12 5-3/C *12 1-3/C *12 (LUM) 4-2/C *14 2-3/C *20

78mm RSC 2-12/C *12 1-3/C *12 1-3/C *12 (LUM) 4-2/C *14 1-3/C *20 *-1-6pr *19

53mm RSC 1-6pr *19

S.O.P. NSP WOOD POLE (TO BE RELOCATED BY OTHERS)
53mm RSC RISER AND WEATHERHEAD 3-1/C *6
POLE TO HH 15C
53mm RSC 3-1/C *6

1 10' PEDESTAL AND BASE PEDESTAL FOUNDATION TYPE 1A
EXTEND INTO HH 13C
53mm RSC 1-12/C *12

B SERVICE CABINET FOUNDATION
SERVICE CABINET TO HH 14C (SERVICE)
53mm RSC 3-1/C *6
SERVICE CABINET TO HH 13C (LIGHTING)
53mm RSC 2-3/C *12 (LUM)
SERVICE CABINET TO HH 15C
53mm RSC 3-1/C *6

A EQUIPMENT PAD - SEE DETAIL
CONTROLLER AND CABINET CONTROLLER CABINET TO HH 1C
103mm RSC 3-12/C *12 5-3/C *12 6-2/C *14 2-3/C *20 *-1-6pr *19
CONTROLLER CABINET TO HH 13C
103mm RSC 3-12/C *12 1-3/C *12 4-2/C *14 1-3/C *20 *-1-6pr *19
CONTROLLER CABINET TO HH 14C
53mm RSC 3-1/C *6
STUB OUT AND CAP 2-78mm RSC TO WEST

5 TYPE PA90-A9.1m-D12.2m-2.7m (DAVIT AT 350°)
PA90 POLE FOUNDATION
2 - ONE WAY SIGNALS (OVERHEAD)
(0m AND 3.3m FROM END OF MAST ARM)
ONEWAY EVP DETECTOR AND LIGHT
(1.2m FROM END OF MAST ARM), 19mm HUB
TYPE 10A AT 90°
TYPE 10A AT 180°
LUMINAIRE - 250 WATT H.P.S.
WITH PEC & CHECK SWITCH
1-R9-3a SIGN FACING (3)
EXTEND INTO HH 12C
78mm RSC 2-12/C *12 1-3/C *12 1-3/C *12 (LUM) 1-3/C *20

*- DESIGNATES ITEMS TO BE INCLUDED IN THE INTERCONNECT SYSTEM PAY ITEM

MN/DOT System Id 22147

NO.	DATE	BY	CHKD	APPR	REVISION



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
George H. Stuenkel

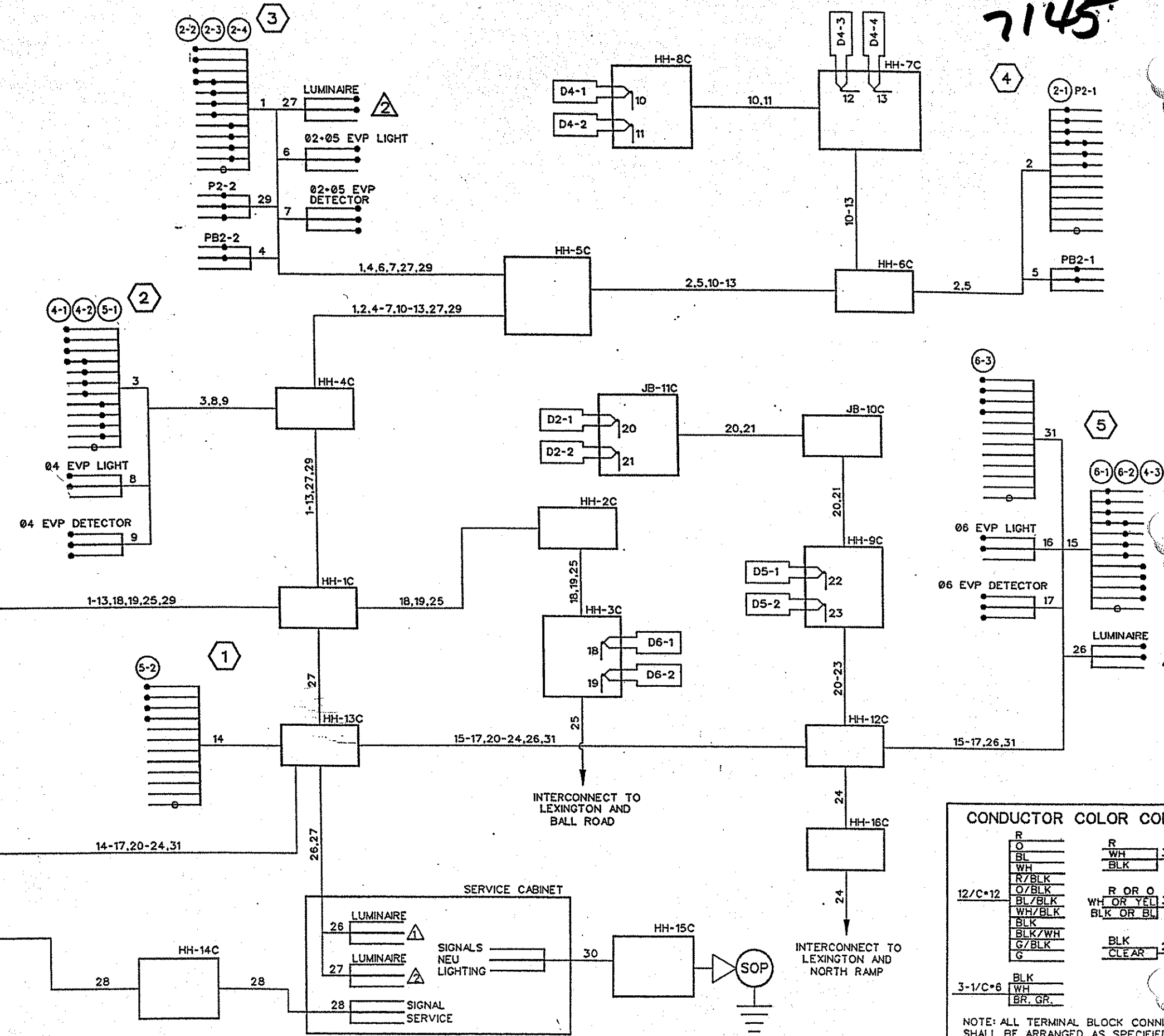
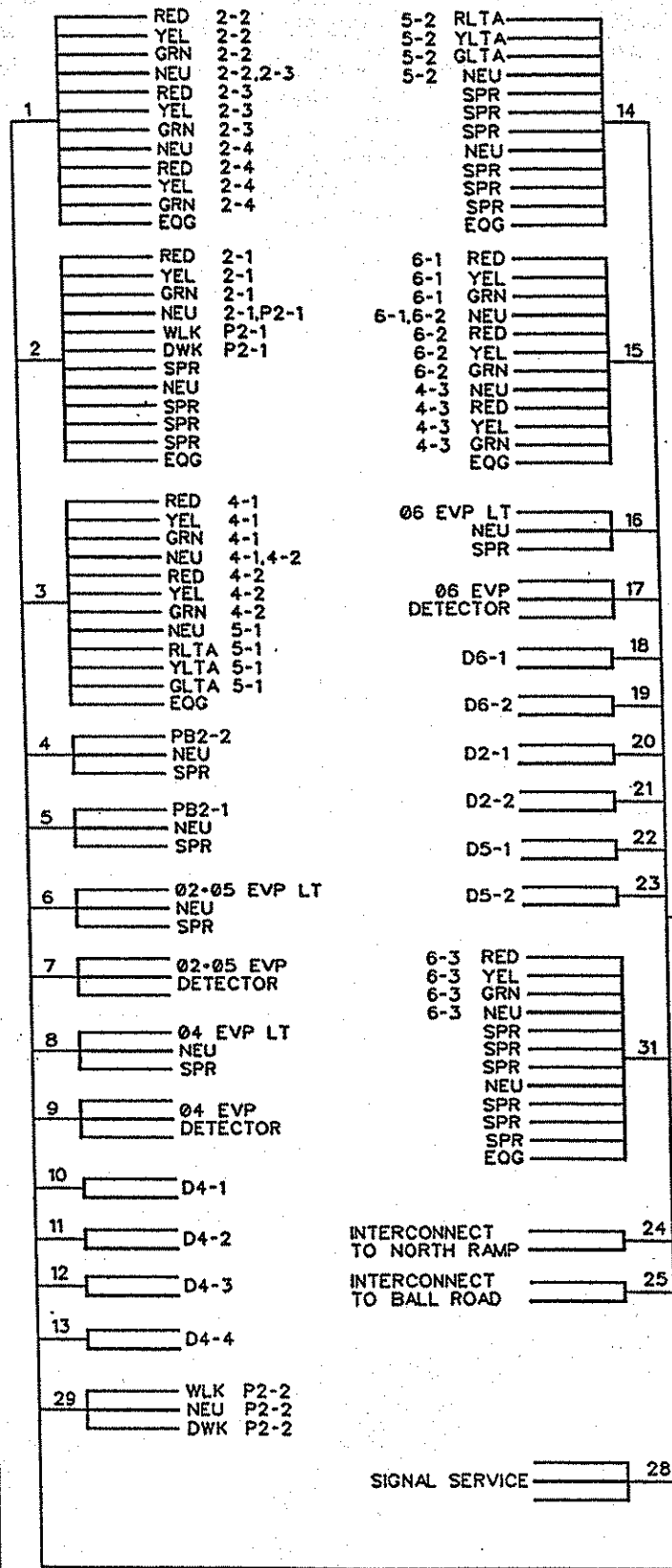
STATE AID PROJECT NO. SAP 02-617-11
STATE PROJECT NO. 02-000-17
DRAWN BY R.W. SMITH DATE 9-95
DESIGNED BY G. STUENKEL DATE 9-95
CHECKED BY C. LEIGHT DATE 9-95
COMM. NO.

SRE CONSULTING GROUP, INC.

ANOKA COUNTY
INTERSECTION LAYOUT
C.S.A.H. 17 RECONSTRUCTION
SHE 12 OF

7145

CONTROLLER CABINET



CONDUCTOR COLOR CODING

R	R
O	WH
BL	BLK
WH	3/C
R/BLK	R OR O
O/BLK	WH OR YEL
BL/BLK	BLK OR BL
WH/BLK	BLK
BLK	BLK
BLK/WH	2/C
G/BLK	CLEAR
G	
BLK	
WH	
BR, GR	

NOTE: ALL TERMINAL BLOCK CONN SHALL BE ARRANGED AS SPECIFIED

NO	DATE	BY	CHK	APPR	REVISION

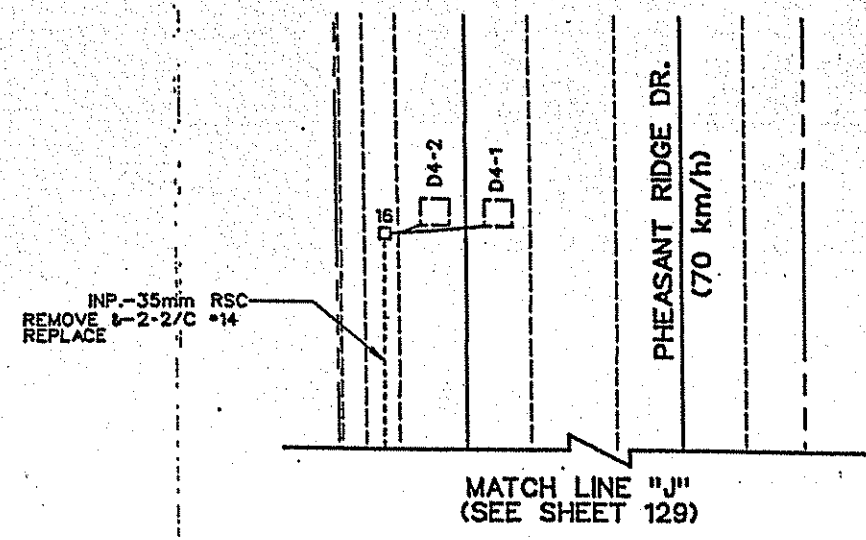
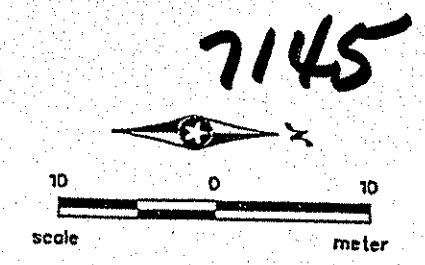
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

George H. Stuenkel

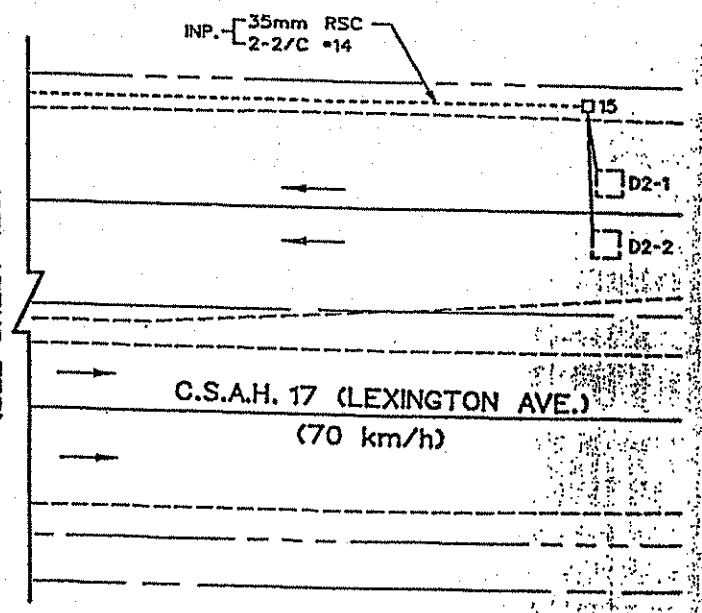
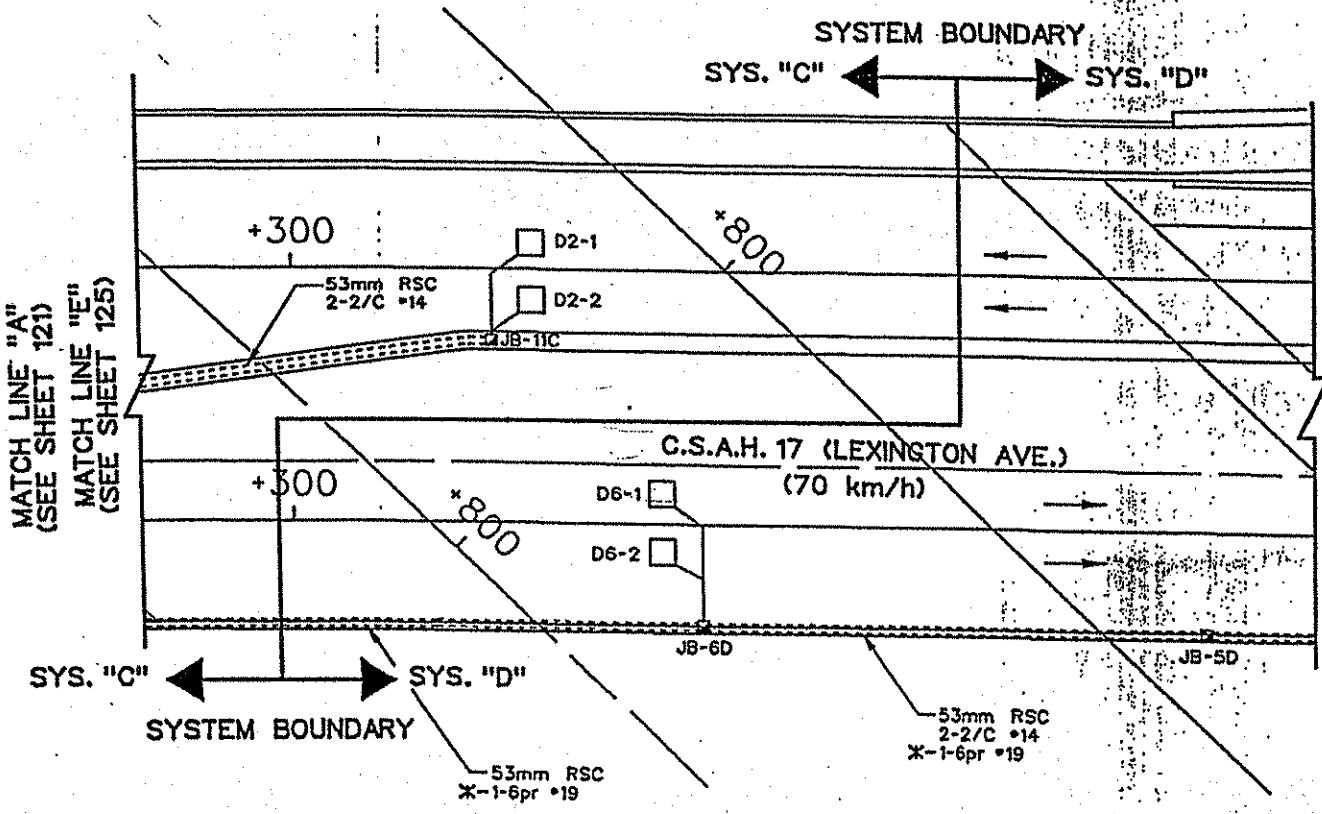
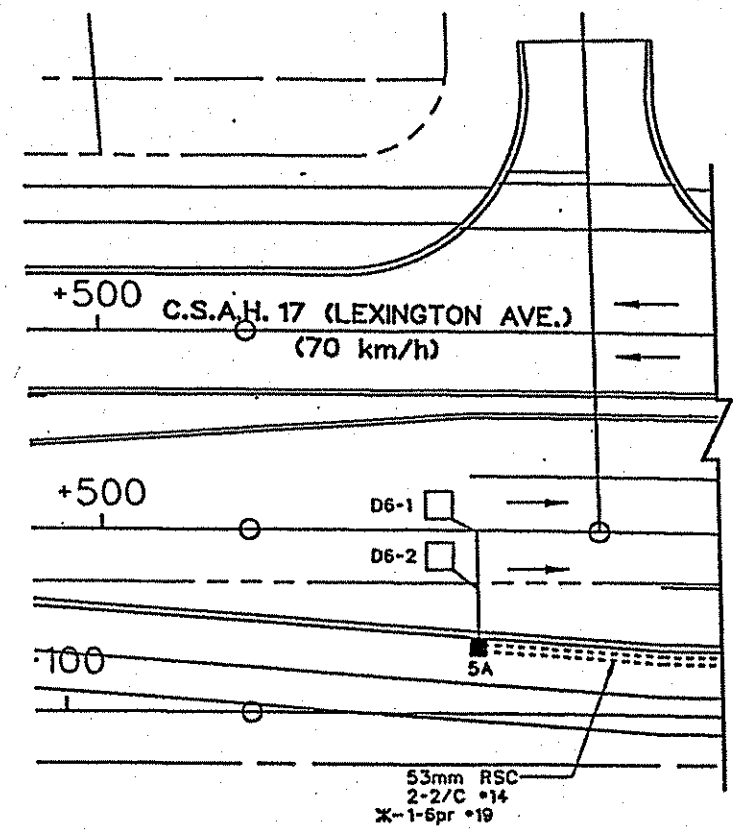
STATE AID PROJECT NO. SAP 02-617-11
 STATE PROJECT NO.
 DRAWN BY M. BRESSLER DATE 9-98
 DESIGNED BY Q. STUEMPFIG 9-98
 CHECKED BY D. FYLER 9-98
 COMM NO.



ANOKA COUNTY
 FIELD WIRING DIAGRAM
 C.S.A.H. 17 RECONSTRUCTION

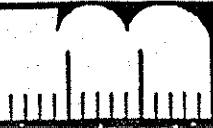


NOTE:
CONDUIT AND JUNCTION BOXES ON BRIDGE
TO BE INCLUDED IN BRIDGE PAY ITEMS.



*-DESIGNATES ITEMS TO BE INCLUDED IN
THE INTERCONNECT SYSTEM PAY ITEM

NO	DATE	BY	CHKD	APPR	REVISION



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

George M. Stuempfig
3/19/97

STATE AID PROJECT NO.
SAP 02-617-11

STATE PROJECT NO.
SP 0280-47

DRAWN BY
R.W. SMITH

DESIGNED BY
P. CORKLE

CHECKED BY
G. STUEMPFIG

DATE
9-86

DATE
9-86

DATE
9-86



ANOKA COUNTY
MATCH LINE LAYOUT
C.S.A.H. 17 RECONSTRUCTION

SHEET
132
OF