

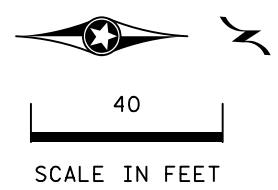
(2) INPLACE: PA90 POLE FOUNDATION
 TYPE PA90-A35-D40-9 (DAVIT AT 350 DEG)
 2-ONE WAY SIGNALS OVERHEAD AT 0' AND 11'
 1-TYPE 10A AT 0 DEG
 1-TYPE 10B AT 270 DEG
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASE 3)
 LUMINAIRE - 250 WATT H.P.S. W/ PEC & CHECK SWITCH
 REMOVE: 1-PED INDICATION (P2-2)
 1- PED PB AND SIGN
 F&I: 1-C.D. PED INDICATION (P2-2)
 INPLACE: EXTEND INTO HH 8:
 3" CONDUIT
 2-12/C 12
 2-3/C 12
 1-3/C 12 (LUM)
 1-3/C 20

F&I: PED PB STA
 1-APS PB AND SIGN
 (RT ARROW) (PB2-2)
 EXTEND INTO HH 8:
 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 9:
 1" CONDUIT
 1-2/C 14
 1-1/C 6 INS. GR.

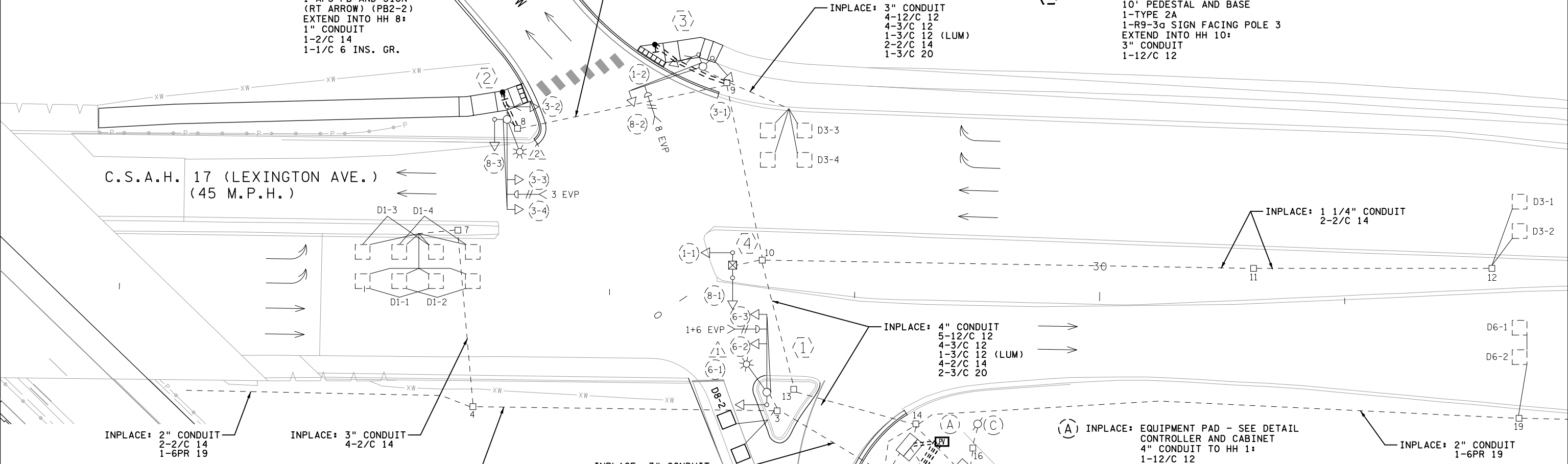
(3) INPLACE: PA90 POLE FOUNDATION
 TYPE PA90-30
 1-ONE WAY SIGNAL OVERHEAD
 1-TYPE 10A AT 0 DEG
 1-TYPE 10A AT 180 DEG
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASE 8)
 REMOVE: 1-PED INDICATION (P2-1)
 1-PED PB AND SIGN
 F&I: 1-C.D. PED INDICATION (P2-1)
 INPLACE: EXTEND INTO HH 9:
 3" CONDUIT
 2-12/C 12
 2-3/C 12
 1-3/C 20

(4) INPLACE: PEDESTAL FOUNDATION
 10' PEDESTAL AND BASE
 1-TYPE 2A
 1-R9-3a SIGN FACING POLE 3
 EXTEND INTO HH 10:
 3" CONDUIT
 1-12/C 12

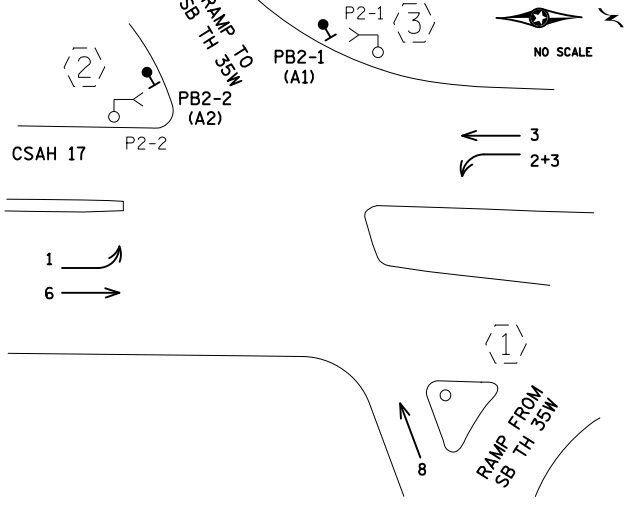


LOOP DETECTOR CHART				
NUMBER	SIZE (FT)	FUNCTION	TYPE	LOCATION
D1-1, D1-3	2-6x6	(1)		20 & 50
D1-2, D1-4	2-6x6	(1)		5 & 35
D3-1, D3-2	6x6	(1)		300
D3-3, D3-4	2-6x6	(1)		5 & 20
D6-1, D6-2	6x6	(1)		300
D8-1	6x6	(3)	PVC	115
D8-2	2-6x6	(1)	PVC	5 & 20

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



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



(1) INPLACE: PA90 POLE FOUNDATION
 TYPE PA90-30-D40-9 (DAVIT AT 350 DEG)
 2-ONE WAY SIGNALS OVERHEAD AT 0' AND 11'
 1-TYPE 10A AT 270 DEG
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASES 1+6)
 LUMINAIRE - 250 WATT H.P.S. W/ PEC & CHECK SWITCH
 EXTEND INTO HH 3:
 3" CONDUIT
 1-12/C 12
 1-3/C 12
 1-3/C 12 (LUM)
 1-3/C 20

F&I: 1.5" CONDUIT
 1-FO CABLE (6SM)

INPLACE: 3" CONDUIT
 1-12/C 12
 1-3/C 12
 1-3/C 12 (LUM)
 7-2/C 14
 1-3/C 20
 1-6PR 19

TO SPLICE VAULT
 SEE TMS PLANS FOR DETAILS

TO N.B. LEXINGTON
 RAMPS

(1) INPLACE: PA90 POLE FOUNDATION
 TYPE PA90-30-D40-9 (DAVIT AT 350 DEG)
 2-ONE WAY SIGNALS OVERHEAD AT 0' AND 11'
 1-TYPE 10A AT 270 DEG
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASES 1+6)
 LUMINAIRE - 250 WATT H.P.S. W/ PEC & CHECK SWITCH
 EXTEND INTO HH 3:
 3" CONDUIT
 1-12/C 12
 1-3/C 12
 1-3/C 12 (LUM)
 1-3/C 20

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- PHASES 3 AND 6 SHALL BE ON VEHICLE RECALL.

ID 1736080
 SYSTEM ID = 22128

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. F&I LOOPS IN RAMP RECONSTRUCTION LIMITS IN ACCORDANCE WITH STD. PLATE 8132.
4. F&I LOOPS IN RAMP OVERLAY LIMITS IN ACCORDANCE WITH STD. PLATE 8130.
5. ADJUST INPLACE CONDUIT AND HANDHOLE 2D TO FINISH GRADE AS NECESSARY.
6. SEE SIGNAL INTERCONNECT PLAN FOR INTERCONNECTION SYSTEM CONSTRUCTION.
7. SEE TMS PLANS FOR INTERCONNECT TIE-INS.

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PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

NO	DATE	DWN	CKD	REVISIONS
2	08/27/19	KAS	MPM	FDC 106
3	06/25/21	KAS	MPM	FDC 379
4	12/03/21			RECORD DRAWING

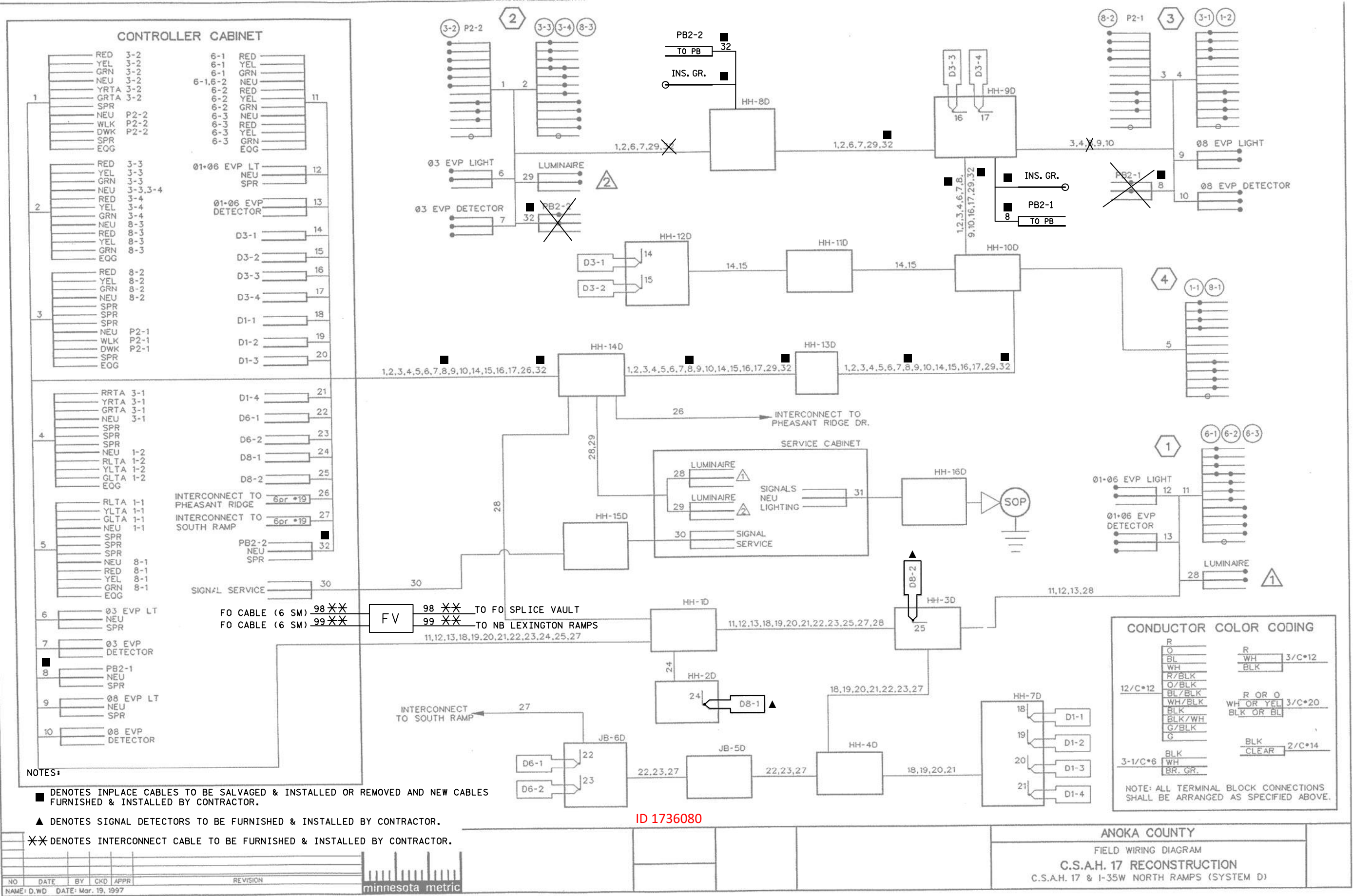


RECORD DRAWING NOTE: THESE RECORD DRAWINGS WERE DEVELOPED BASED ON THE PREVIOUS DRAWING REVISIONS AND INFORMATION TRANSMITTED FROM THE FIELD BY OTHERS. THE INFORMATION CONTAINED WITHIN THIS RECORD AS-BUILT PLAN REPRESENTS THE ACTUAL CONDITIONS FOR ALL CHANGES OF WHICH ALLIANT IS AWARE. FUTURE USERS OF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

REVISE SIGNAL SYSTEM "E" LAYOUT
 T.H. 35W SB RAMPS & LEXINGTON AVE

I-35W NORTH MNPASS DB (S.P. 6284-180)
 SHEET NO. SGL22 OF SGL45 SHEETS

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CONTROLLER CABINET			
1	RED	3-2	6-1
	YEL	3-2	6-1
	GRN	3-2	6-1
	NEU	3-2	6-1,6-2
	YRTA	3-2	6-2
	GRTA	3-2	6-2
	SPR	P2-2	6-2
	NEU	P2-2	6-3
	WLK	P2-2	6-3
	DWK	P2-2	6-3
	SPR	P2-2	6-3
	EOG	P2-2	6-3
	RED	3-3	01-06 EVP LT
	YEL	3-3	NEU
	GRN	3-3	SPR
	NEU	3-3,3-4	01-06 EVP DETECTOR
	RED	3-4	D3-1
	YEL	3-4	D3-2
	GRN	3-4	D3-3
	NEU	8-3	D3-4
	RED	8-3	D1-1
	YEL	8-3	D1-2
	GRN	8-3	D1-3
	EOG	8-3	
	RED	8-2	D1-4
	YEL	8-2	D6-1
	GRN	8-2	D6-2
	NEU	8-2	D8-1
	SPR	P2-1	D8-2
	SPR	P2-1	INTERCONNECT TO PHEASANT RIDGE
	SPR	P2-1	INTERCONNECT TO SOUTH RAMP
	NEU	P2-1	PB2-2
	WLK	P2-1	
	DWK	P2-1	
	SPR	P2-1	
	EOG	P2-1	
	RRTA	3-1	
	YRTA	3-1	
	GRTA	3-1	
	NEU	3-1	
	SPR	1-2	
	SPR	1-2	
	SPR	1-2	
	NEU	1-2	
	RLTA	1-2	
	YLTA	1-2	
	GLTA	1-2	
	EOG	1-2	
	RLTA	1-1	
	YLTA	1-1	
	GLTA	1-1	
	NEU	1-1	
	SPR	8-1	
	SPR	8-1	
	SPR	8-1	
	NEU	8-1	
	RED	8-1	
	YEL	8-1	
	GRN	8-1	
	EOG	8-1	
	03 EVP LT		
	NEU		
	SPR		
	03 EVP DETECTOR		
	PB2-1		
	NEU		
	SPR		
	08 EVP LT		
	NEU		
	SPR		
	08 EVP DETECTOR		

- 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	WH	3/C*12
O	BLK	
BL		
WH		
R/BLK		
O/BLK		
BL/BLK		
WH/BLK		
BLK		
BLK/WH		
G/BLK		
G		
BLK	BLK	2/C*14
WH	CLEAR	
BR. GR.		

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

NO	DATE	BY	CKD	APPR	REVISION
1	05/22/19	AKS	MPM	RFC	DP T-6
1	12/03/21				RECORD DRAWING

NAME: D.WD DATE: Mar. 19, 1997

ANOKA COUNTY
 FIELD WIRING DIAGRAM
C.S.A.H. 17 RECONSTRUCTION
 C.S.A.H. 17 & I-35W NORTH RAMPS (SYSTEM D)

ID 1736080

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.

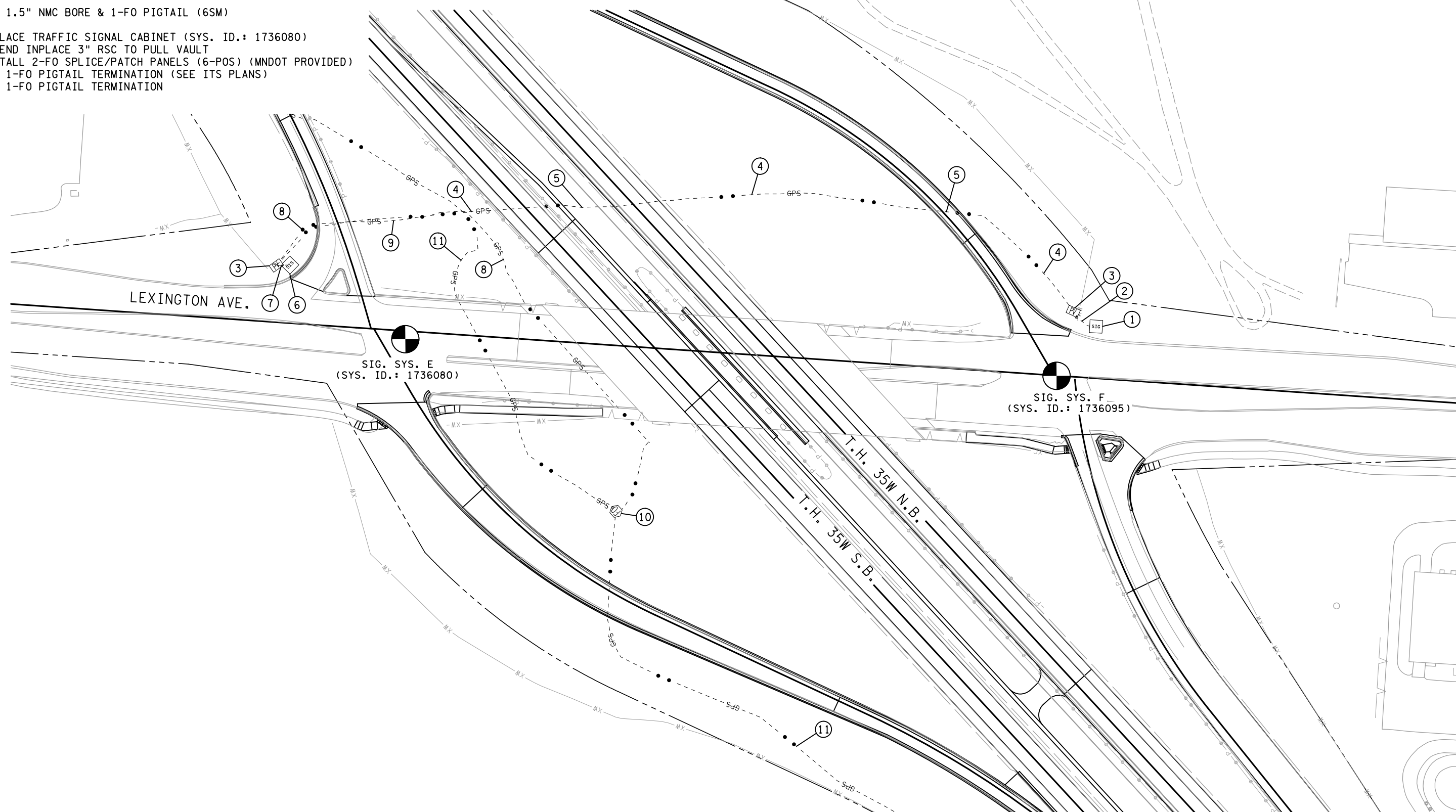
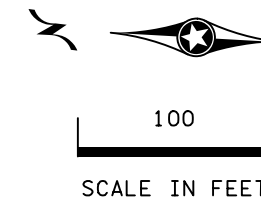
REVISE SIGNAL SYSTEM "E" WIRING DIAGRAM
 T.H. 35W SB RAMPS & LEXINGTON AVE

I-35W NORTH MNPASS DB (S.P. 6284-180)
 SHEET NO. SGL23 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
0	12/18/19	DSN	MPM	RFC DP T-5
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

LOOP DETECTOR CHART			DISTANCE FROM STOP LINE
DESIGNATION	SIZE	FUNCTION	
D1-1,D1-3	2-1.7m x 1.7m	(1)	6.1,15.2m
D1-2,D1-4	2-1.7m x 1.7m	(1)	1.5,10.7m
D3-1,D3-2	1-1.7m x 1.7m	(1)	92m
D3-3,D3-4	2-1.7m x 1.7m	(1)	1.5,6.1m
D6-1,D6-2	1-1.7m x 1.7m	(1)	92m
D8-1	1-1.7m x 1.7m	(3)	35m
D8-2	2-1.7m x 1.7m	(1)	1.5,6.1m

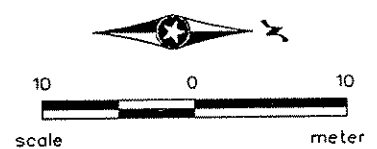
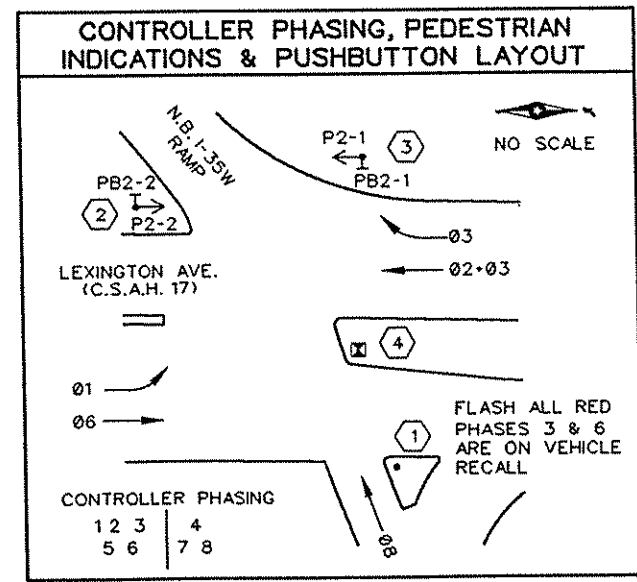
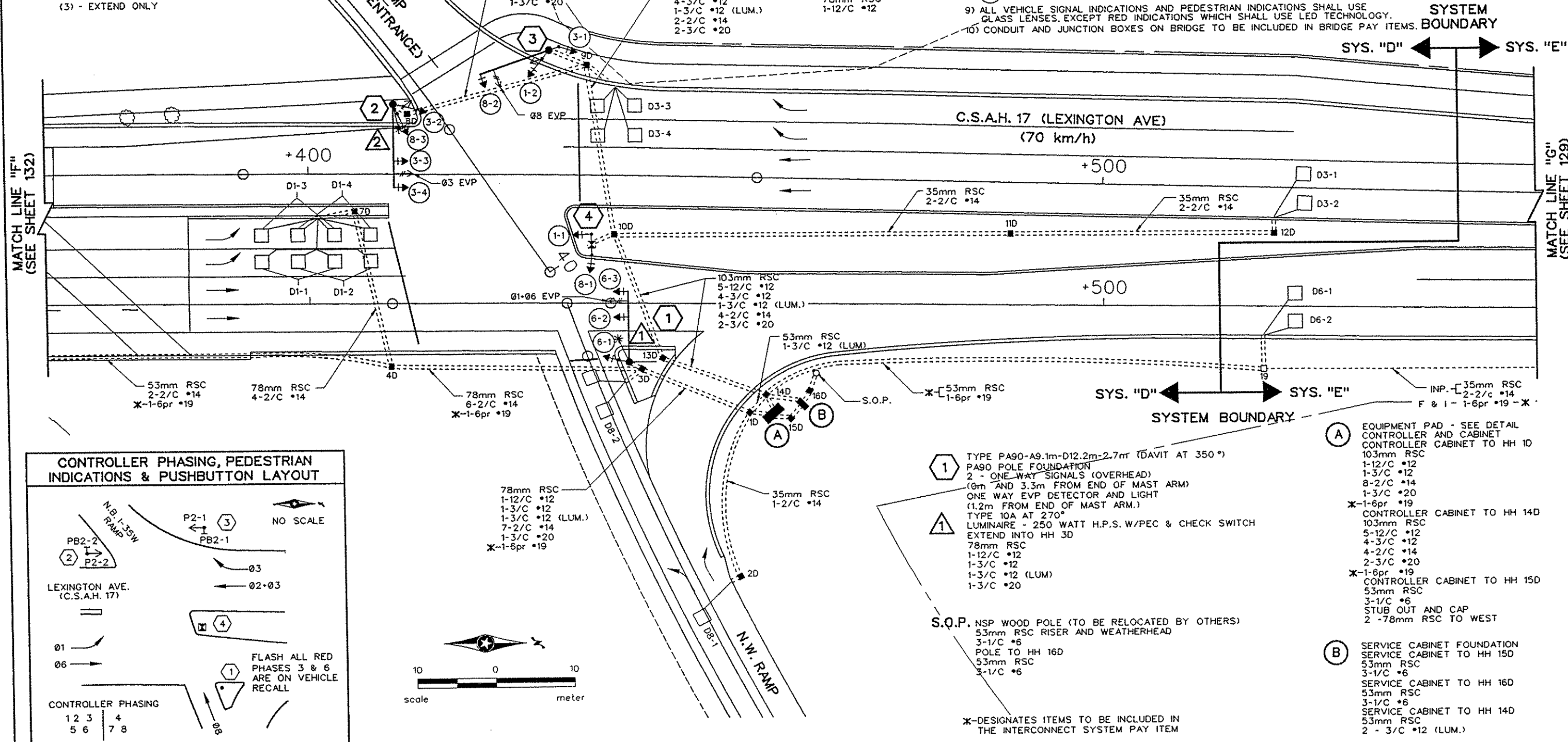
LOOP DETECTOR CHART
 (1) - CALL AND EXTEND
 (3) - EXTEND ONLY

2 TYPE PA90-A10.7m-D12.2m-2.7m (DAVIT AT 350°)
 PA90 POLE FOUNDATION
 2 - ONE WAY SIGNALS (OVERHEAD)
 (0m AND 3.4m FROM END OF MAST ARM)
 ONE WAY EVP DETECTOR AND LIGHT
 (1.2m FROM END OF MAST ARM)
 TYPE 10A AT 0°
 TYPE 10B AT 270°
 LUMINAIRE - 250 WATT H.P.S.
 W/PEC & CHECK SWITCH
 1 - PEDESTRIAN PUSH BUTTON & SIGN
 EXTEND INTO HH 8D
 78mm RSC
 2-12/C *12
 2-3/C *12
 1-3/C *12 (LUM.)
 1-3/C *20

3 TYPE PA90-A9.1m
 PA90 POLE FOUNDATION
 1 - ONE WAY SIGNAL (OVERHEAD)
 (0m FROM END OF MAST ARM)
 ONE WAY EVP DETECTOR AND LIGHT
 (1.8m FROM END OF MAST ARM)
 TYPE 10A AT 180°
 TYPE 10B AT 0°
 1 - PEDESTRIAN PUSH BUTTON & SIGN
 EXTEND INTO HH 9D
 78mm RSC
 2-12/C *12
 2-3/C *12
 1-3/C *20

4 10' PEDESTAL AND BASE
 PEDESTAL FOUNDATION
 TYPE 2A
 1-R9-3a SIGN FACING (3)
 EXTEND INTO HH 10D
 78mm RSC
 1-12/C *12

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



- (A) EQUIPMENT PAD - SEE DETAIL CONTROLLER AND CABINET CONTROLLER CABINET TO HH 1D
 103mm RSC
 1-12/C *12
 1-3/C *12
 8-2/C *14
 1-3/C *20
 *1-6pr *19
 CONTROLLER CABINET TO HH 14D
 103mm RSC
 5-12/C *12
 4-3/C *12
 4-2/C *14
 2-3/C *20
 *1-6pr *19
 CONTROLLER CABINET TO HH 15D
 53mm RSC
 3-1/C *6
 STUB OUT AND CAP
 2 - 78mm RSC TO WEST
- (B) SERVICE CABINET FOUNDATION
 SERVICE CABINET TO HH 15D
 53mm RSC
 3-1/C *6
 SERVICE CABINET TO HH 16D
 53mm RSC
 3-1/C *6
 SERVICE CABINET TO HH 14D
 53mm RSC
 2 - 3/C *12 (LUM.)

NO	DATE	BY	CKD	APPR	REVISION

NAME: D.INT DATE: Mar. 19, 1997



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
 Date: 3/21/97 Reg. No. 21849

STATE AID PROJECT NO.
 SAP 02-617-11
 STATE PROJECT NO.
 SP 0280-47

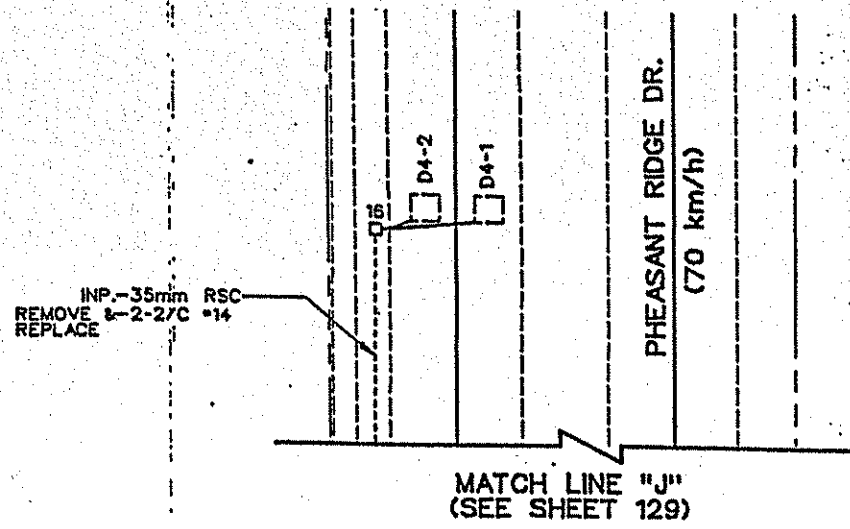
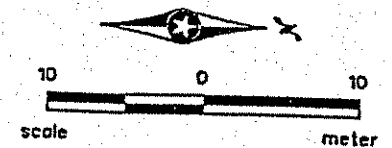
DRAWN BY
 R.W. SMITH
 DATE
 9-96
 DESIGNED BY
 G. STUEMPFIG
 9-96
 CHECKED BY
 P. CORKLE
 9-96
 COMM. NO.
 0962410



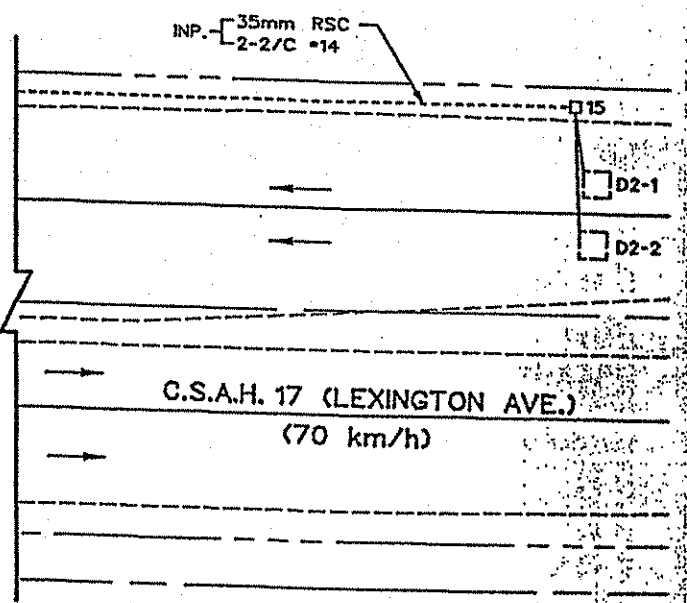
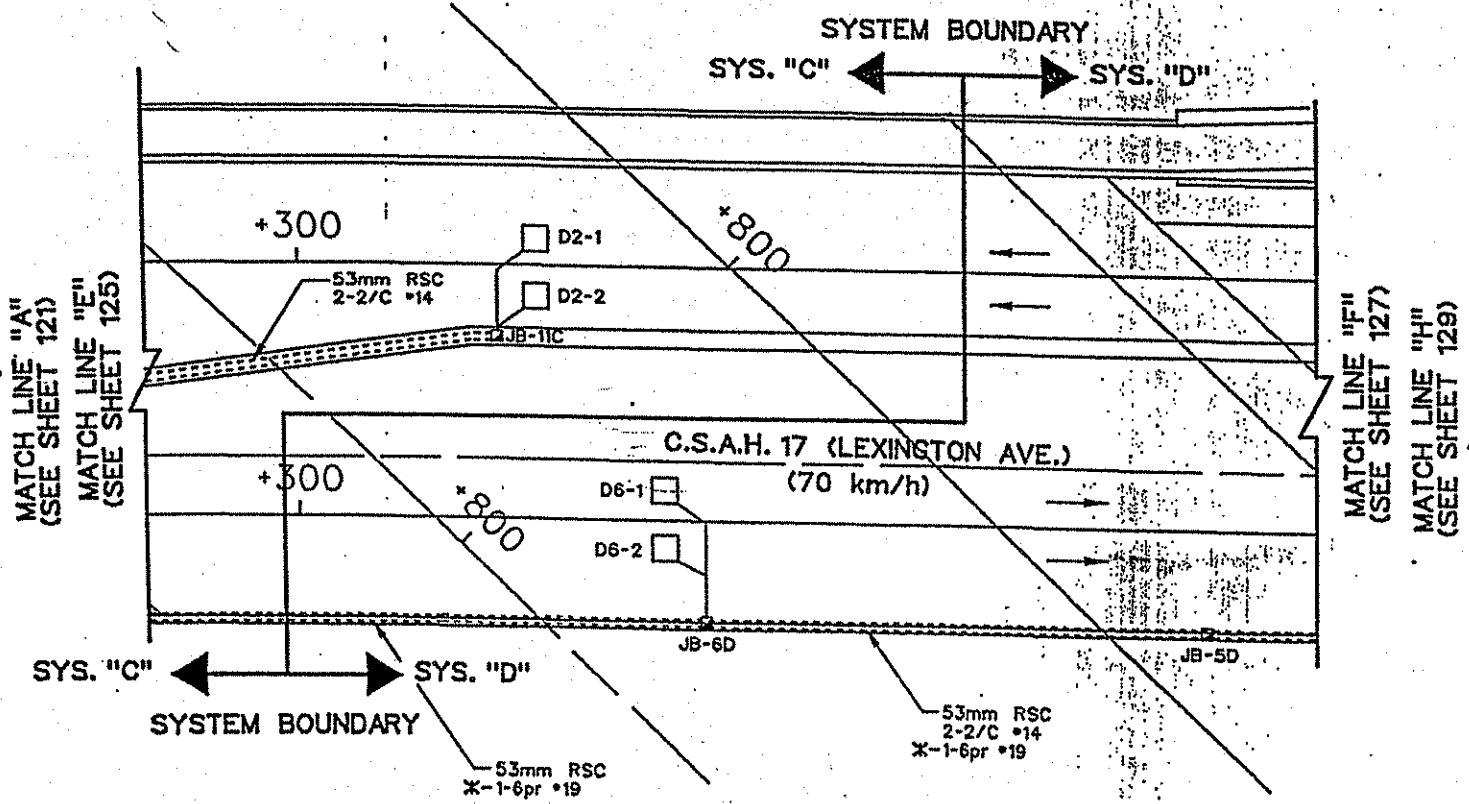
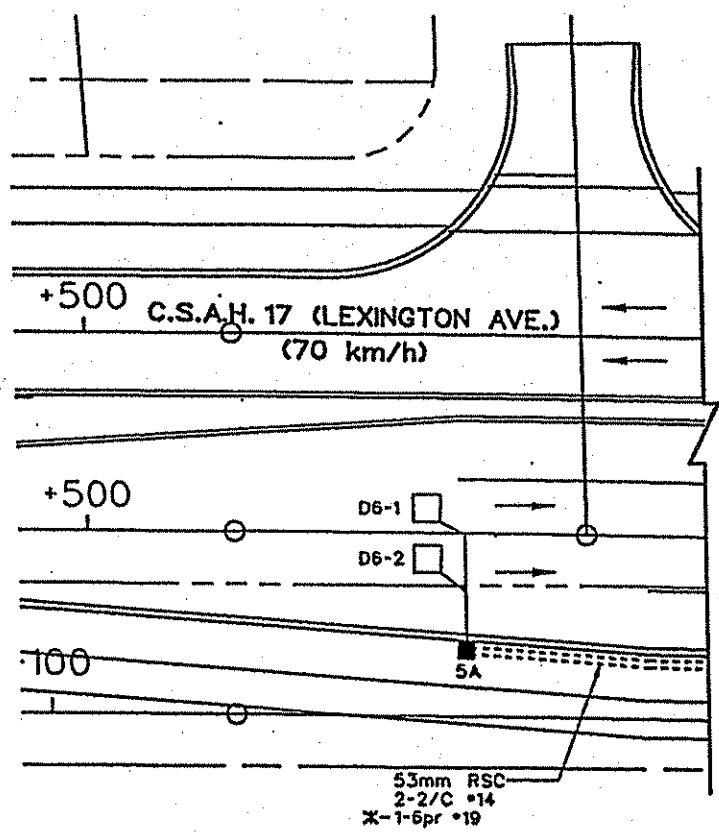
ANOKA COUNTY
 INTERSECTION LAYOUT
 C.S.A.H. 17 RECONSTRUCTION
 C.S.A.H. 17 & I-35W NORTH RAMPS (SYSTEM D)

SHEET
 127
 OF
 236

7144



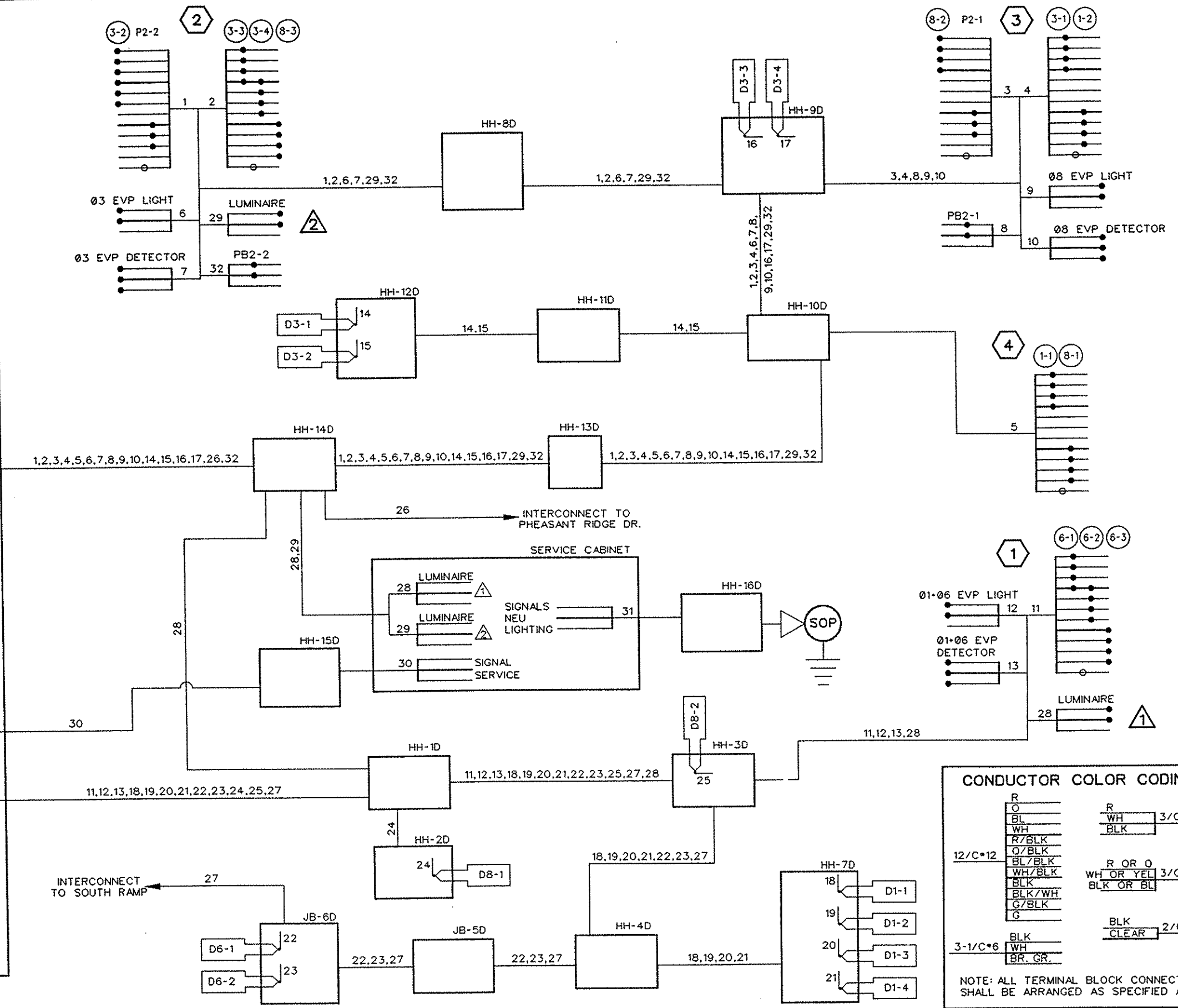
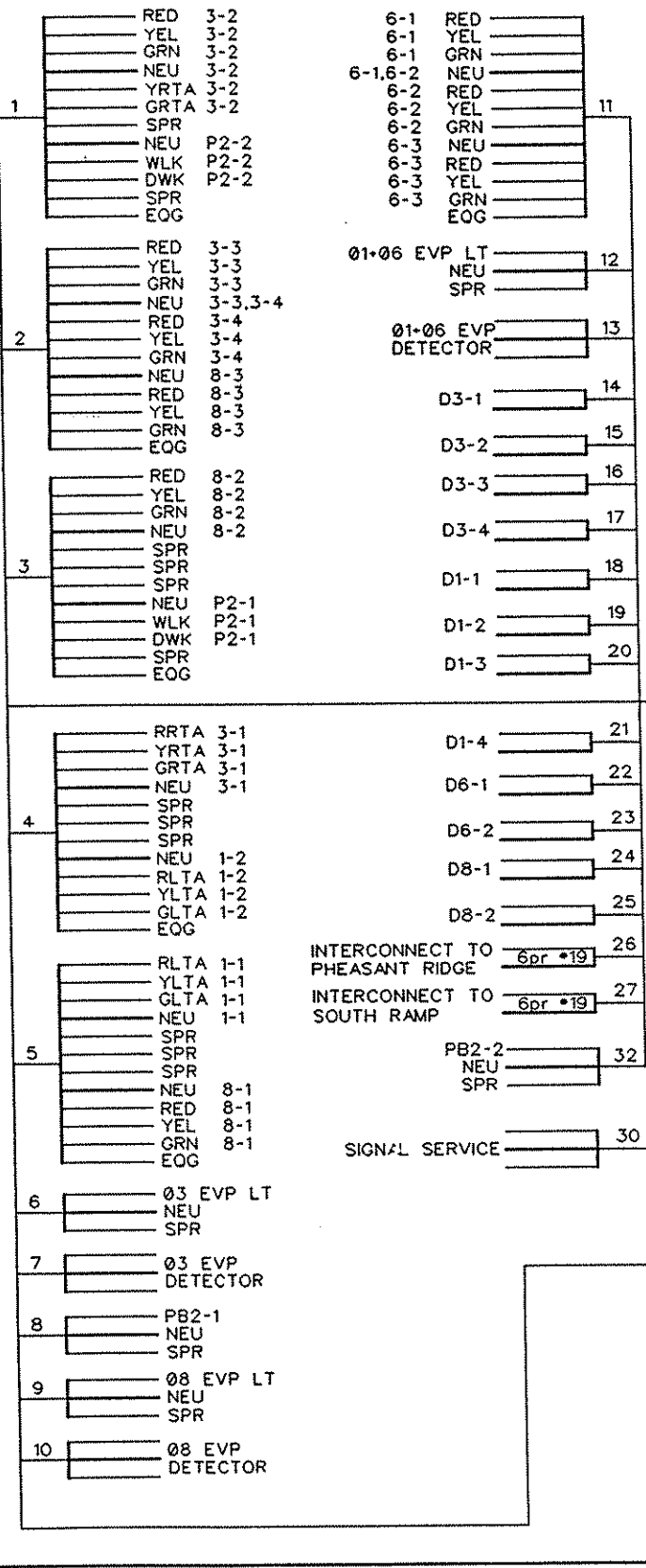
NOTE:
CONDUIT AND JUNCTION BOXES ON BRIDGE
TO BE INCLUDED IN BRIDGE PAY ITEMS.



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

				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. <i>George H. Stuempfig</i> Date: 3/21/97 Reg. No. 21849		STATE AND PROJECT NO. SAP 02-617-11 STATE PROJECT NO. SP 0280-47		DRAWN BY R.W. SMITH DATE 9-96 DESIGNED BY P. CORKLE 9-96 CHECKED BY G. STUEMPFIG 9-96 COMM. NO. 085240				ANOKA COUNTY MATCH LINE LAYOUT C.S.A.H. 17 RECONSTRUCTION		SHEET 132 OF 137			
NO	DATE	BY	CHKD	APPR	REVISION												
NAME: MATCH2.HIT						DATE: Mar. 19, 1997											

CONTROLLER CABINET



CONDUCTOR COLOR CODING

R	R
O	WH 3/C*12
BL	BLK
WH	
R/BLK	
O/BLK	
BL/BLK	R OR O
WH/BLK	WH OR YEL 3/C*20
BLK	BLK OR BL
BLK/WH	
G/BLK	
G	
	BLK 2/C*14
3-1/C*6	WH
	BR. GR.

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

NO	DATE	BY	CHKD	APPR	REVISION

NAME: D.WD DATE: Mar. 19, 1997

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. Stuemppig
Date: 3/21/97 Reg. No. 21849

STATE AID PROJECT NO. SAP 02-617-11
STATE PROJECT NO. SP 0280-47

DRAWN BY M. BRESSLER DATE 9-96
DESIGNED BY G. STUEMPFIG DATE 9-96
CHECKED BY D. EYLER DATE 9-96
COMM. NO. 0962410

ANOKA COUNTY
FIELD WIRING DIAGRAM
C.S.A.H. 17 RECONSTRUCTION
C.S.A.H. 17 & I-35W NORTH RAMPS (SYSTEM D)

SHEET 128 OF 236