

SIGNAL HEAD CHART

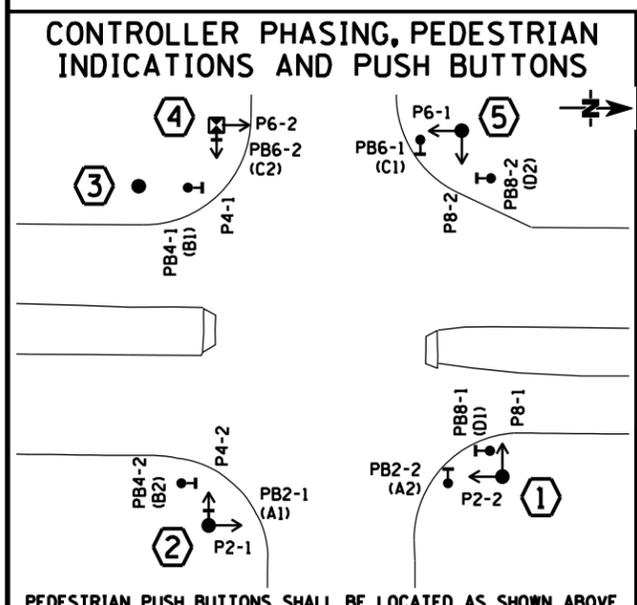
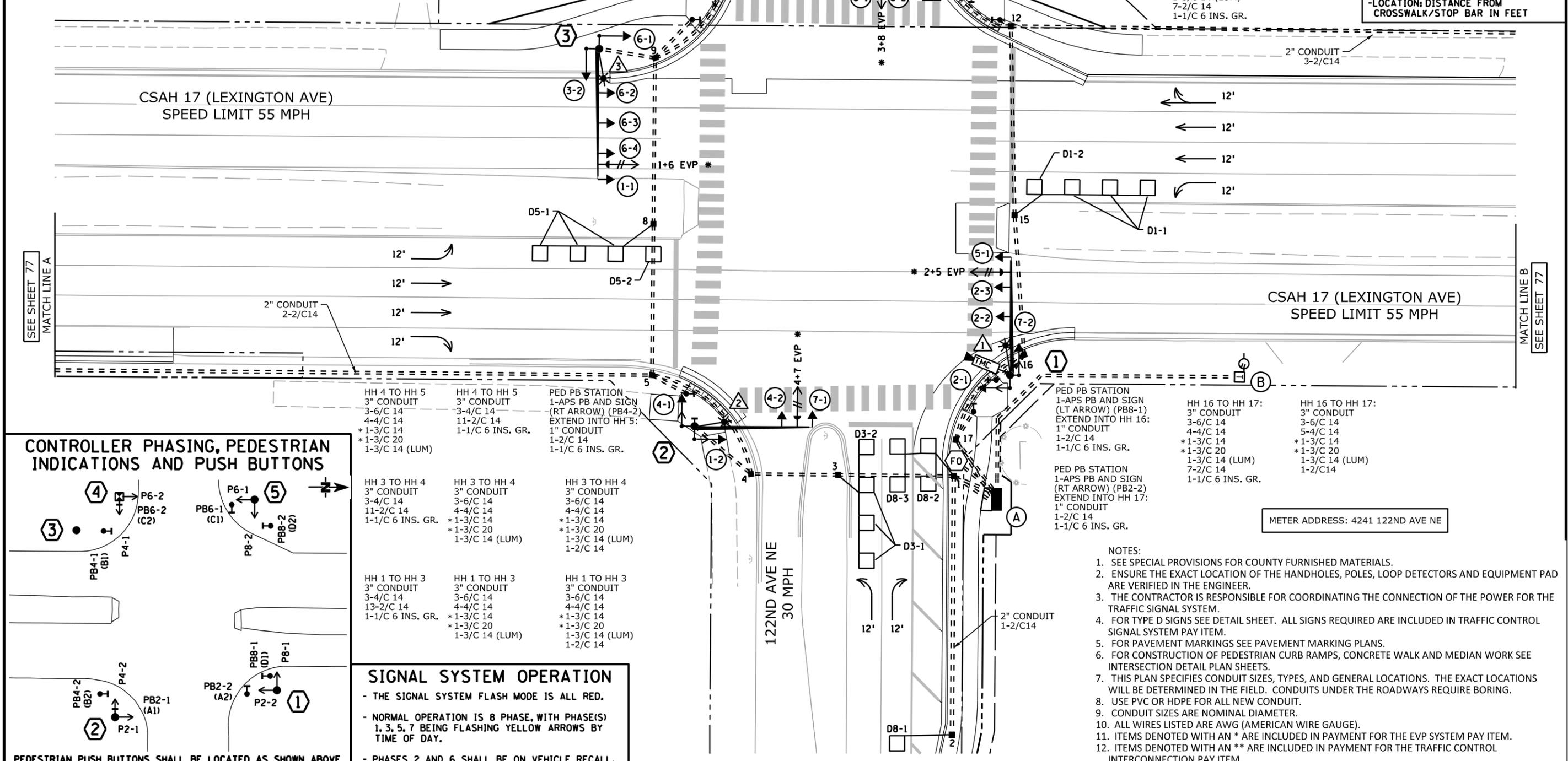
FACE	R	Y	FYA	G
1-1, 1-2	●	●	●	●
2-1, 2-2, 2-3	●	●	●	●
3-1, 3-2	●	●	●	●
4-1, 4-2	●	●	●	●
5-1, 5-2	●	●	●	●
6-1, 6-2, 6-3, 6-4	●	●	●	●
7-1, 7-2	●	●	●	●
8-1, 8-2	●	●	●	●

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

LOOP DETECTOR CHART

NUMBER	SIZE (FT)	LOCATION
D1-1, D5-1	2-6X6	20 & 50
D1-2, D5-2	2-6X6	5 & 35
D2-1, D2-2	6X6	475
D3-1	2-6X6	20 & 50
D3-2	2-6X6	5 & 35
D4-1, D4-2	2-6X6	0 & 15
D6-1, D6-2, D6-3	6X6	475
D7-1	6X6	15
D7-2	6X6	0
D8-1	6X6	120
D8-2, D8-3	2-6X6	5 & 20

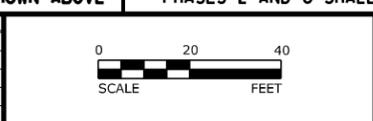
-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE
 -LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASE(S) 1, 3, 5, 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

REV. NO.	DATE	BY	CHK	DESCRIPTION



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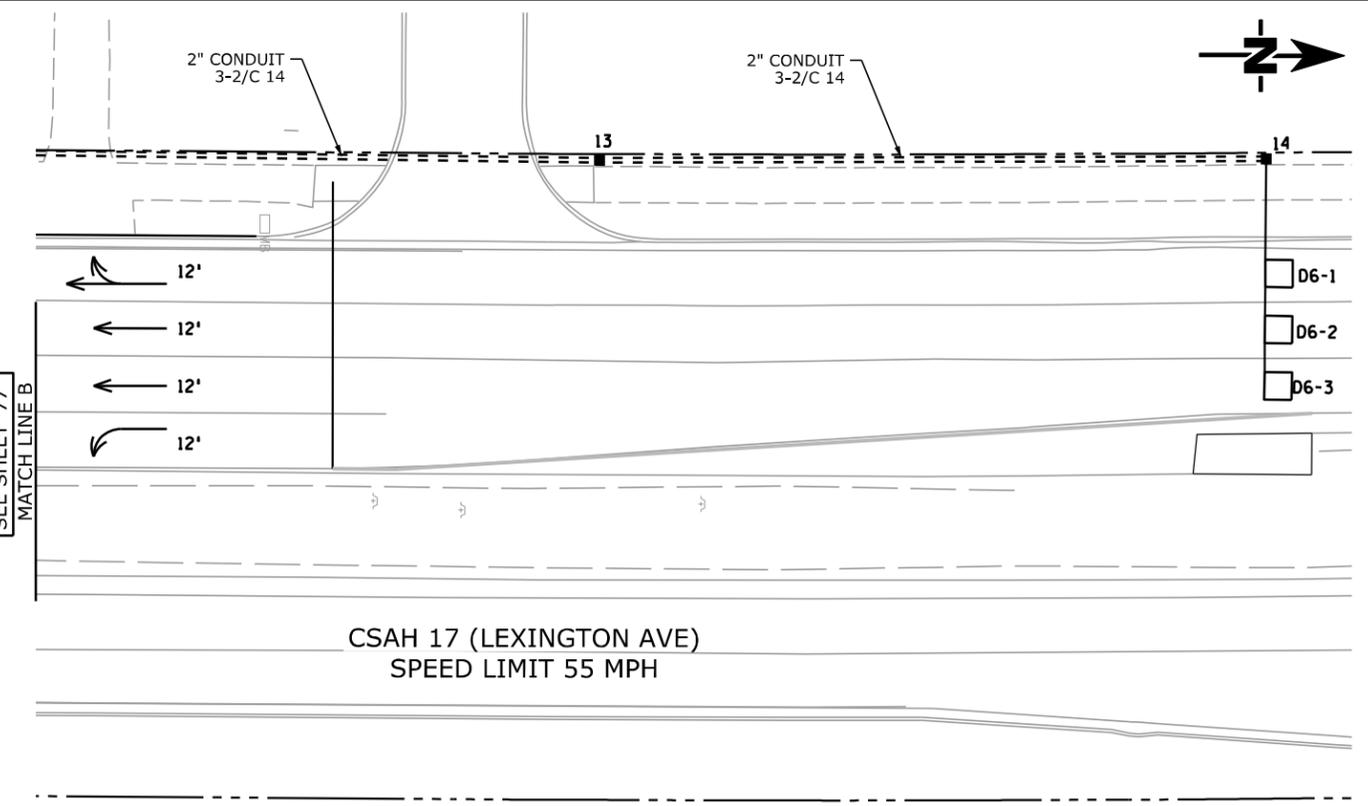
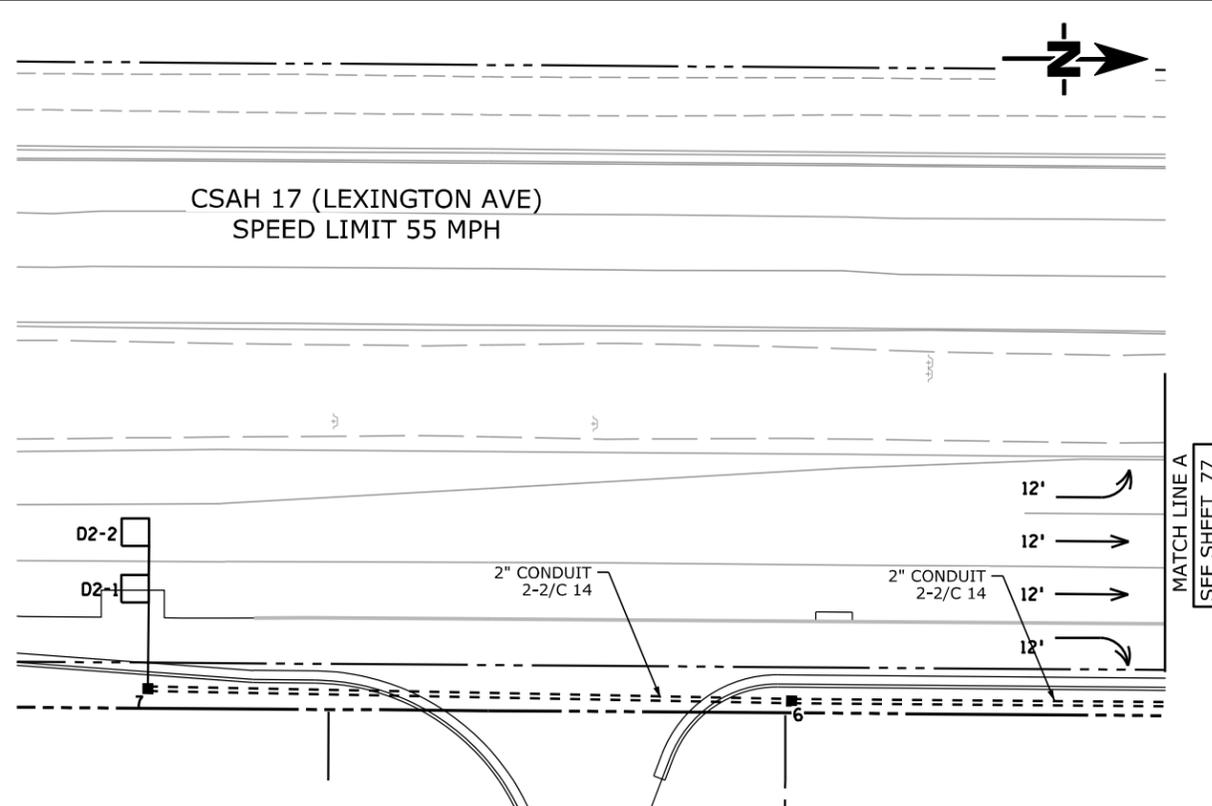
DESIGNED: BPV
 DRAWN: AOA
 CHECKED: BPV

NAME: BRIAN P. VITEK LIC. NO. 40444 DATE: 4/4/2024



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MODEL: 3.1_Intersection Notes
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4 X: 526704.73
 Y: 156974.26
 PEDESTAL POLE FOUNDATION
 10' PEDESTAL POLE PLUS BASE
 2-STRAIGHT MOUNT C.D. PED HEADS AT 0 AND 90 DEG
 1-APS PB AND SIGN (RT ARROW) (PB6-2)
 AND APS PB MOUNTING SPACERS
 3" CONDUIT TO HH 10:
 3-4/C 14
 1-2/C 14
 1-1/C 6 INS. GR.

3 X: 526728.49
 Y: 156928.07
 PA100 POLE FOUNDATION
 TYPE PA100-A50-D30-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL AT 0'
 3-STRAIGHT MOUNT SIGNALS AT 11', 23' AND 35'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
 (PHASES 1+6)
 LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
 1-SIGN (122ND AVE NE) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 4:
 3-6/C 14
 4-4/C 14
 * 1-3/C 14
 * 1-3/C 20
 1-3/C 14 (LUM)
 1-1/C 6 INS. GR.

2 X: 526878.02
 Y: 156965.91
 PA100 POLE FOUNDATION
 TYPE PA100-A45-D30-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL AT 0'
 1-STRAIGHT MOUNT SIGNAL AT 12'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED HEADS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
 (PHASES 4+7)
 LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
 1-APS PB AND SIGN (LT ARROW) (PB2-1)
 AND APS POLE MOUNT ADAPTOR
 1-R10-X12 SIGN ADJACENT TO HEAD (7-1)
 1-SIGN (LEXINGTON AVE) (SEE SIGN DETAILS)
 1-R6-1L SIGN AT 90 DEG
 1-R6-1R SIGN AT 270 DEG
 3" CONDUIT TO HH 4:
 3-6/C 14
 4-4/C 14
 * 1-3/C 14
 * 1-3/C 20
 1-3/C 14 (LUM)
 1-2/C 14
 1-1/C 6 INS. GR.

5 X: 526696.85
 Y: 157071.01
 PA90 POLE FOUNDATION
 TYPE PA90-A35-D30-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL AT 0'
 1-STRAIGHT MOUNT SIGNAL AT 12'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED HEADS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
 (PHASES 3+8)
 LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
 1-R10-X12 SIGN ADJACENT TO HEAD (3-1)
 1-SIGN (LEXINGTON AVE) (SEE SIGN DETAILS)
 1-R6-1L SIGN AT 90 DEG
 1-R6-1R SIGN AT 270 DEG
 3" CONDUIT TO HH 6:
 3-6/C 14
 4-4/C 14
 * 1-3/C 14
 * 1-3/C 20
 1-3/C 14 (LUM)
 1-1/C 6 INS. GR.

1 X: 526857.78
 Y: 157091.13
 PA100 POLE FOUNDATION
 TYPE PA100-A45-X6-300/CAM 350 (DAVIT AT 350 DEG)
 (INCLUDES LIGHTNING ROD, 7/16" GROUND BRAID
 AND GROUND ROD)
 1-TRAFFIC MANAGEMENT CAMERA (COUNTY FURNISHED)
 1-ANGLE MOUNT SIGNAL AT 0'
 2-STRAIGHT MOUNT SIGNAL AT 12' AND 24'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED HEADS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
 (PHASES 2+5)
 LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
 1-SIGN (122ND AVE NE) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 8:
 3-6/C 14
 5-4/C 14
 * 1-3/C 14
 * 1-3/C 20
 1-3/C 14 (LUM)
 1-1/C 6 INS. GR.
 1-7/16" GROUNDING BRAID
 TO GROUND ROD IN HH 8
 1-CAT 5E (TRA MGMT CAM)

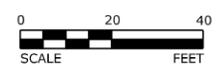
A EQUIPMENT PAD (SEE DETAIL SHEET)
 SERVICE CABINET (SSB) WITH BATTERY BACKUP SYSTEM AND BATTERIES
 CONTROLLER AND CABINET (COUNTY FURNISHED)
 3" CONDUIT TO HH 1: 3-6/C 14
 3-6/C 14
 4-4/C 14
 * 1-3/C 14
 * 1-3/C 20
 3" CONDUIT TO HH 1: 3-4/C 14
 16-2/C 14
 1-1/C 6 INS. GR.
 3" CONDUIT TO HH 17: 3-6/C 14
 5-4/C 14
 * 1-3/C 14
 * 1-3/C 20
 1-2/C 14
 GROUND WIRE AND GROUND ROD - MIN. 8' OUT FROM PAD
 2-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 ** 1.5" CONDUIT TO FO VAULT:
 ** 2-12 SM FO CABLE

CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 3-1/C 6
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" CONDUIT
 1-CAT5E (600V RATED)
 1-4/C 14
 SERVICE CABINET TO SOP:
 2" CONDUIT AND LONG SWEEP ELBOW STUBBED
 OUT 5' FROM EDGE OF EQUIPMENT PAD
 (BY CONTRACTOR)
 SERVICE CONDUCTORS (BY CONNEXUS)
 SERVICE CABINET TO HH 1:
 2" CONDUIT
 2-3/C 14 (LUM)
 SERVICE CABINET TO HH 17:
 2" CONDUIT
 2-3/C 14 (LUM)
 SERVICE CABINET TO EXTERNAL GR. RD.:
 1" CONDUIT
 1-1/C 6 INS. GR.
 (SEE EQUIPMENT PAD LAYOUT)
B SOP - GROUND MOUNTED
 TRANSFORMER (CONNEXUS ENERGY)
 2" CONDUIT & SERVICE CONDUCTORS TO
 SERVICE CABINET (BY CONNEXUS ENERGY)

METER ADDRESS: 4241 122ND AVE NE

NOTES:
 1. ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE
 EVP SYSTEM PAY ITEM.
 2. ITEMS DENOTED WITH AN ** ARE INCLUDED IN PAYMENT FOR THE
 TRAFFIC CONTROL INTERCONNECTION PAY ITEM.

REV. NO.	DATE	BY	CHK	DESCRIPTION



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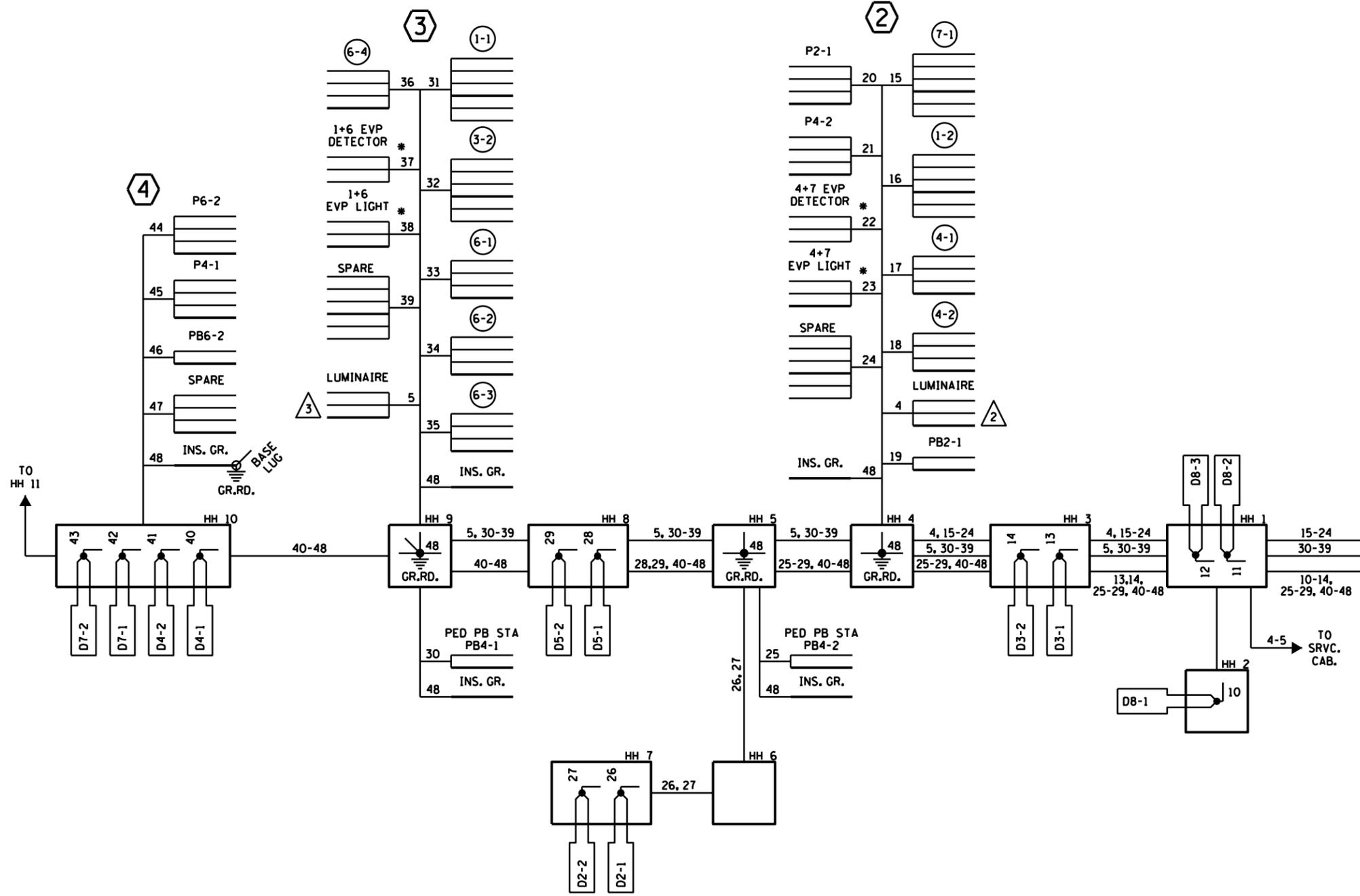
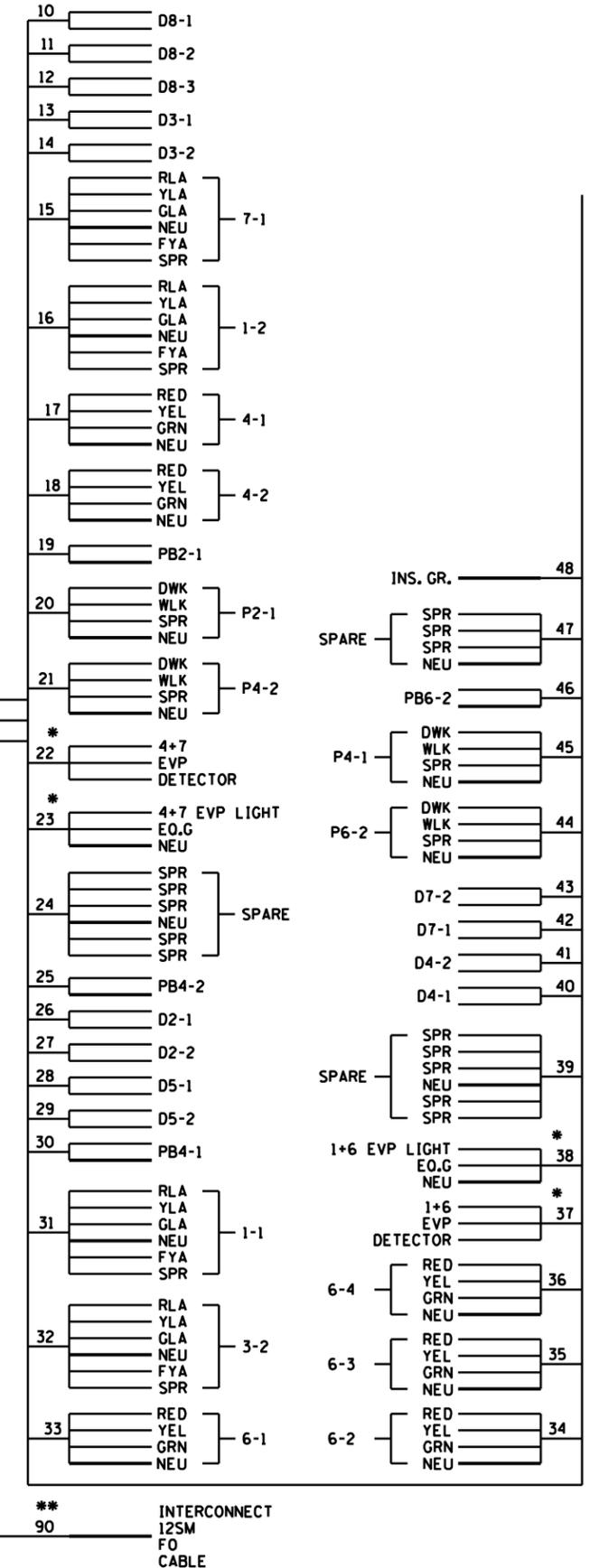
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TRAFFIC CONTROL SIGNAL SYSTEM
 MATCHLINES / INTERSECTION NOTES PLAN PAGE 10 OF 13
 CSAH 17 (LEXINGTON AVE) AND 122ND AVE NE
 S.A.P. 002-617-028, 106-020-039, S.A.P. 106-143-001

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CONTROLLER CABINET



- NOTES:**
1. SPLICES ARE ONLY ALLOWED IN LOOP DETECTOR CIRCUITS, IN HAND HOLES NEAREST THE LOOP DETECTORS.
 2. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET WITH BATTERY BACKUP EQUIPMENT AND BATTERIES.
 3. FOR CONDUCTOR COLOR CODE SEE THE COLOR CODE CHART SHEET.
 4. FOR EACH "SPARE" WIRE, COIL ENOUGH WIRE TO REACH THE END OF THE MAST ARM IN THE HAND HOLE NEAREST EACH POLE.
 5. LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE SIGNAL POLE BASE.
 6. ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
 7. ITEMS DENOTED WITH AN ** ARE INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECTION PAY ITEM.

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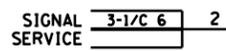
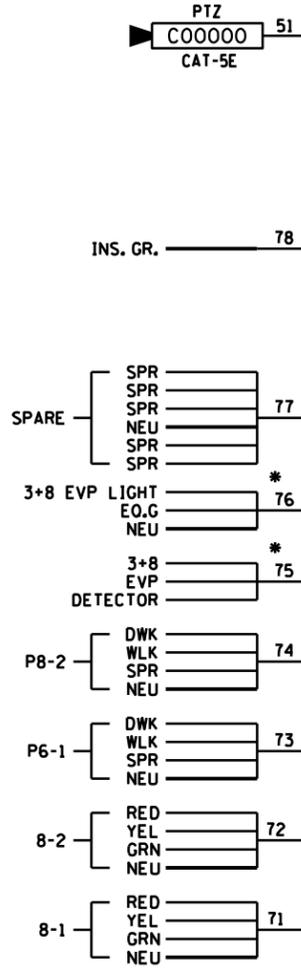
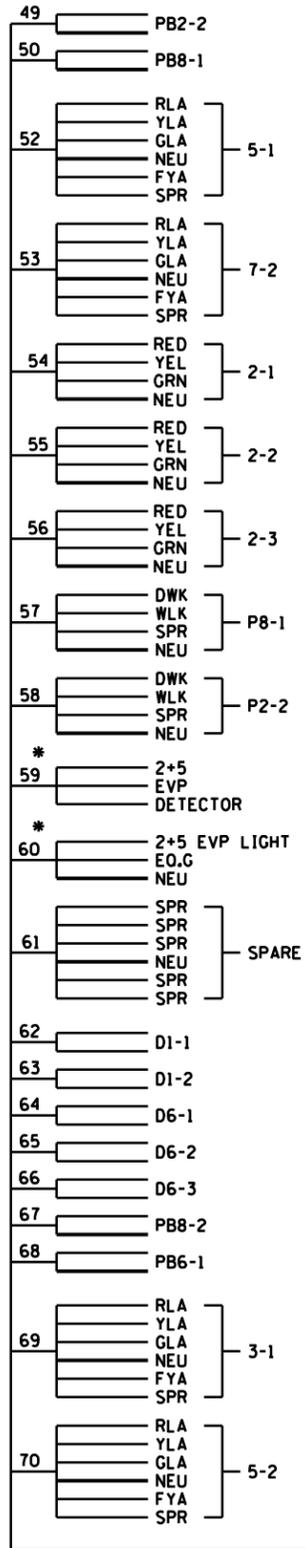
DESIGNED: AOA
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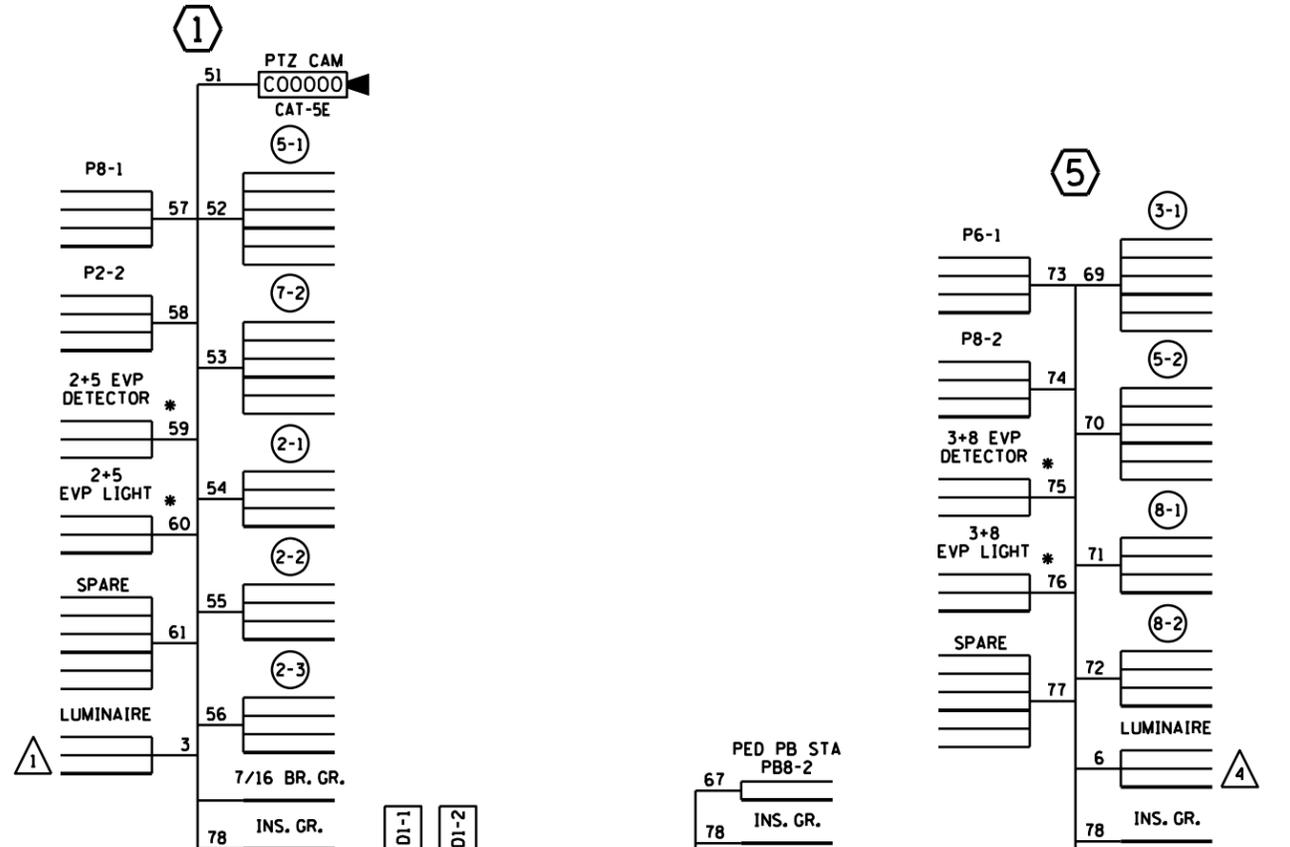
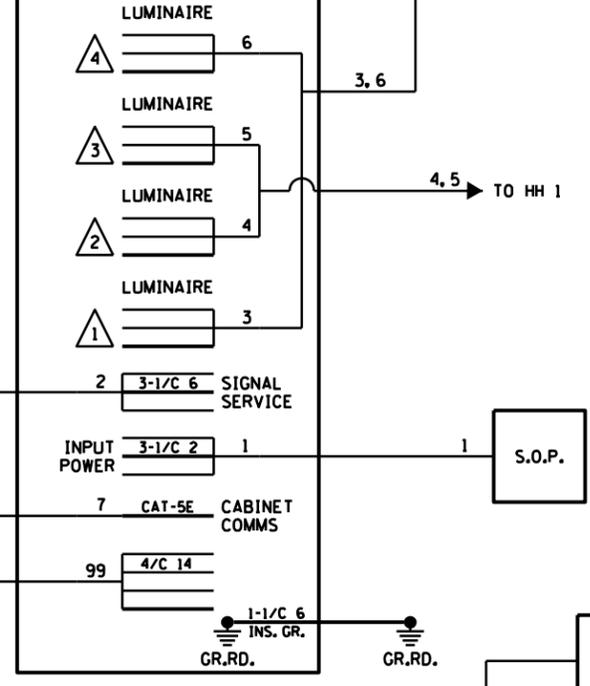
TRAFFIC CONTROL SIGNAL SYSTEM
 FIELD WIRING DIAGRAM PLAN PAGE 11 of 13
 CSAH 17 (LEXINGTON AVE) AND 122ND AVE NE
 S.A.P. 002-617-028, 106-020-039, S.A.P. 106-143-001

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CONTROLLER CABINET



SERVICE CABINET



- NOTES:
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 - SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET WITH BATTERY BACKUP EQUIPMENT AND BATTERIES.
 - FOR CONDUCTOR COLOR CODE SEE THE COLOR CODE CHART SHEET.
 - FOR EACH "SPARE" WIRE, COIL ENOUGH WIRE TO REACH THE END OF THE MAST ARM IN THE HAND HOLE NEAREST EACH POLE.
 - LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE SIGNAL POLE BASE.
 - ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVAP SYSTEM PAY ITEM.
 - ITEMS DENOTED WITH AN ** ARE INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECTION PAY ITEM.

USER: jstuebe
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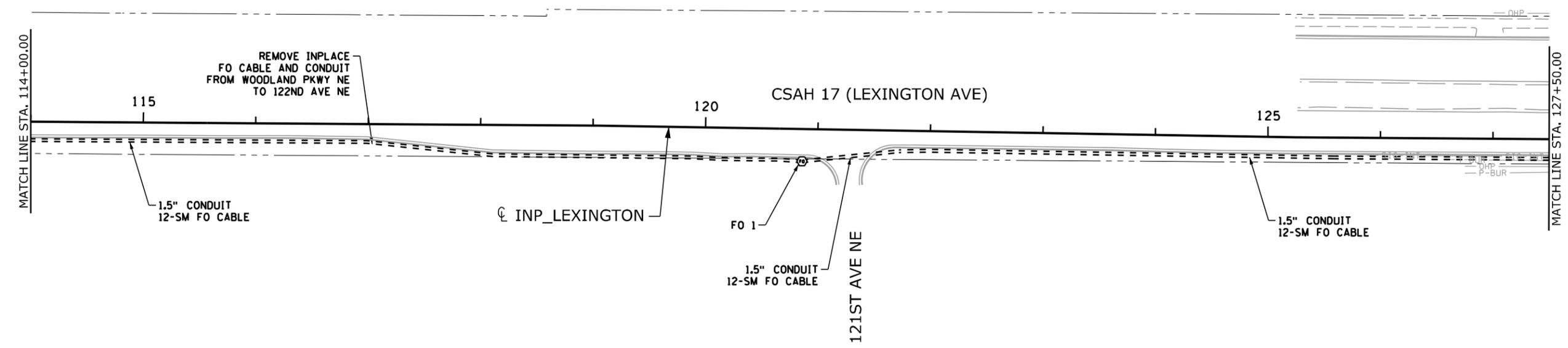
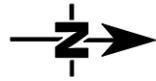
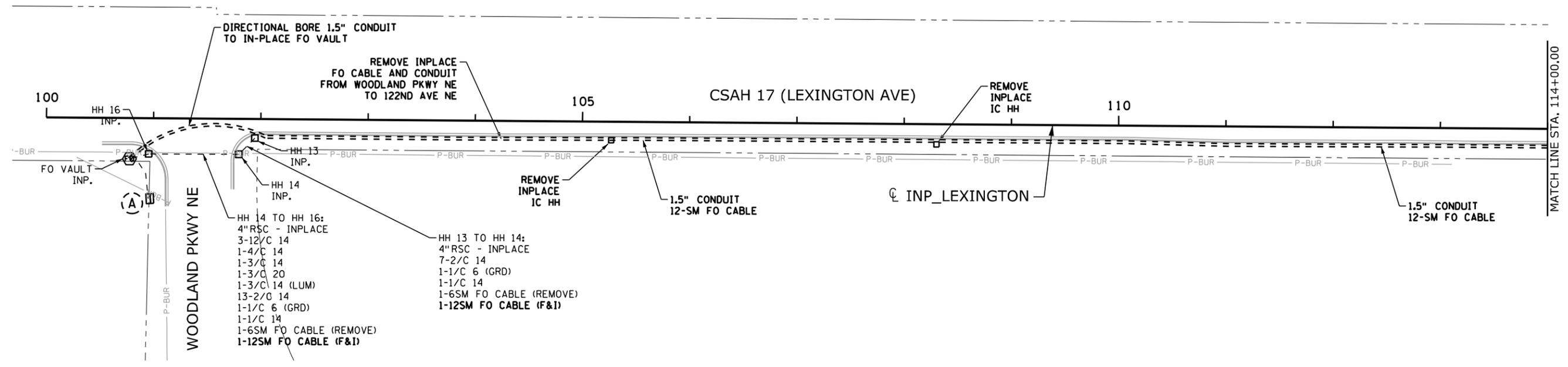
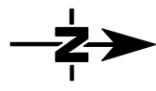
Brian P. Vitek
 NAME: BRIAN P. VITEK LIC. NO. 40444 DATE: 4/4/2024

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 DRAWN: AOA
 CHECKED: BPV



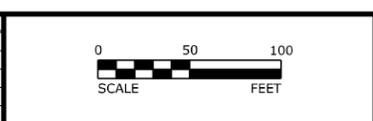
TRAFFIC CONTROL SIGNAL SYSTEM
 FIELD WIRING DIAGRAM PLAN PAGE 12 of 13
 CSAH 17 (LEXINGTON AVE) AND 122ND AVE NE
 S.A.P. 002-617-028, 106-020-039, S.A.P. 106-143-001

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MODEL: 3.0 - Interconnect Plan
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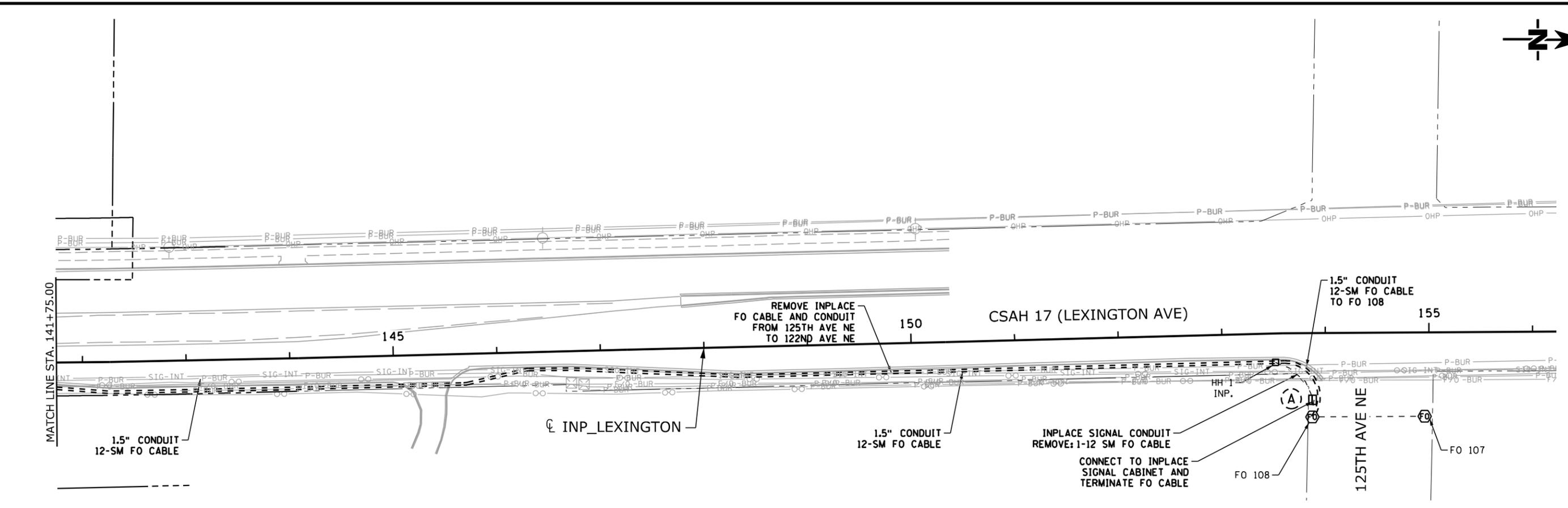
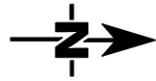
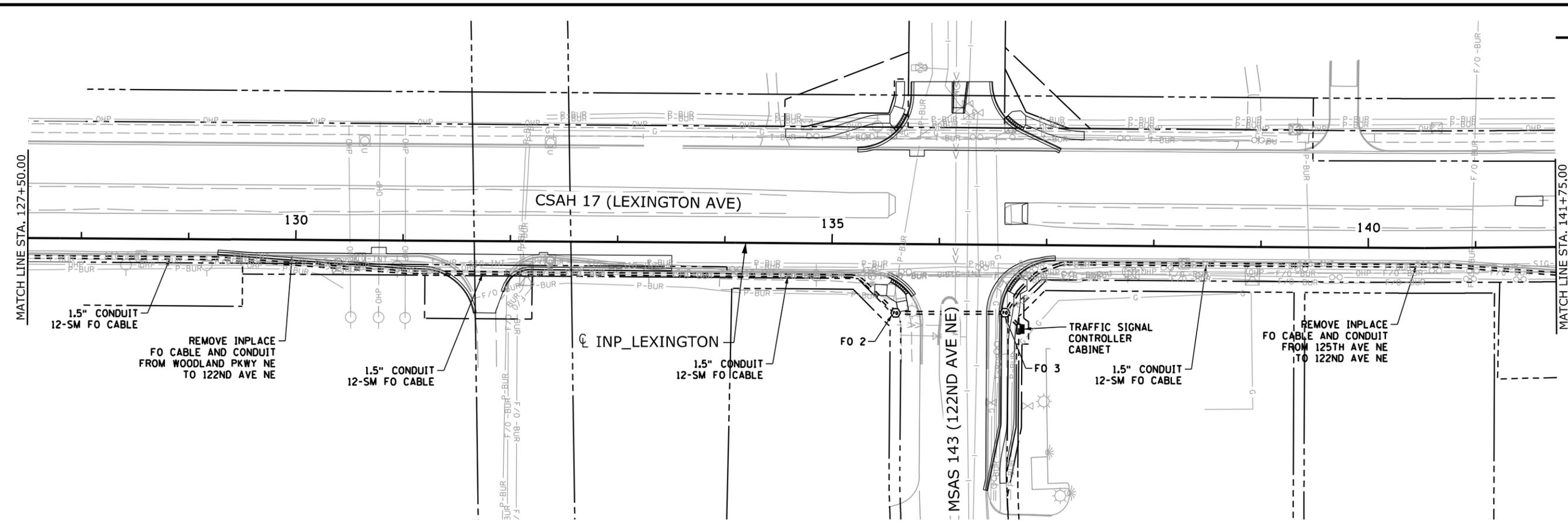
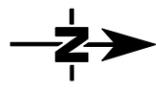
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INTERCONNECT PLAN
 PLAN PAGE 3 of 4
 S.A.P. 002-617-028, 106-020-039, S.A.P. 106-143-001

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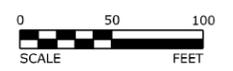


MODEL: 3.1 - Interconnect Plan

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 DRAWN: KJM
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INTERCONNECT PLAN
 PLAN PAGE 4 of 4
 S.A.P. 002-617-028, 106-020-039, S.A.P. 106-143-001

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