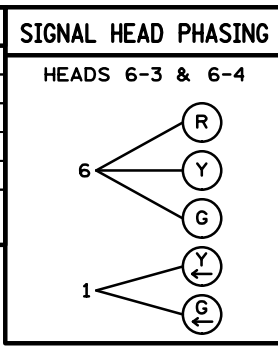


PLOTTED/REVISED: 5-JUN-2023

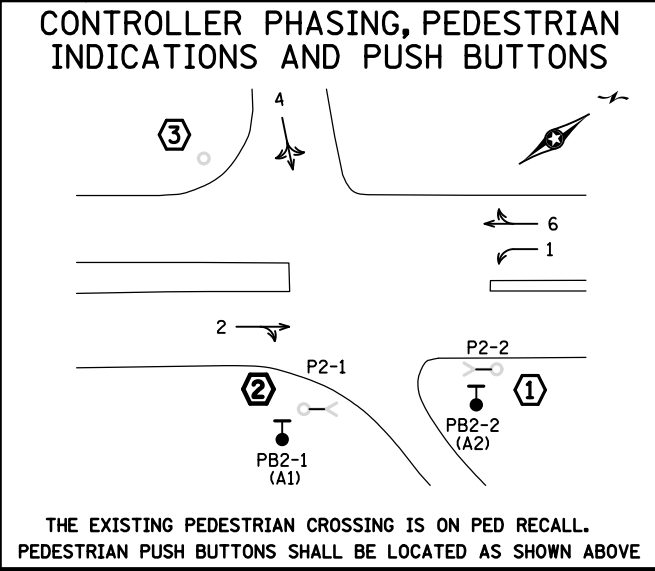
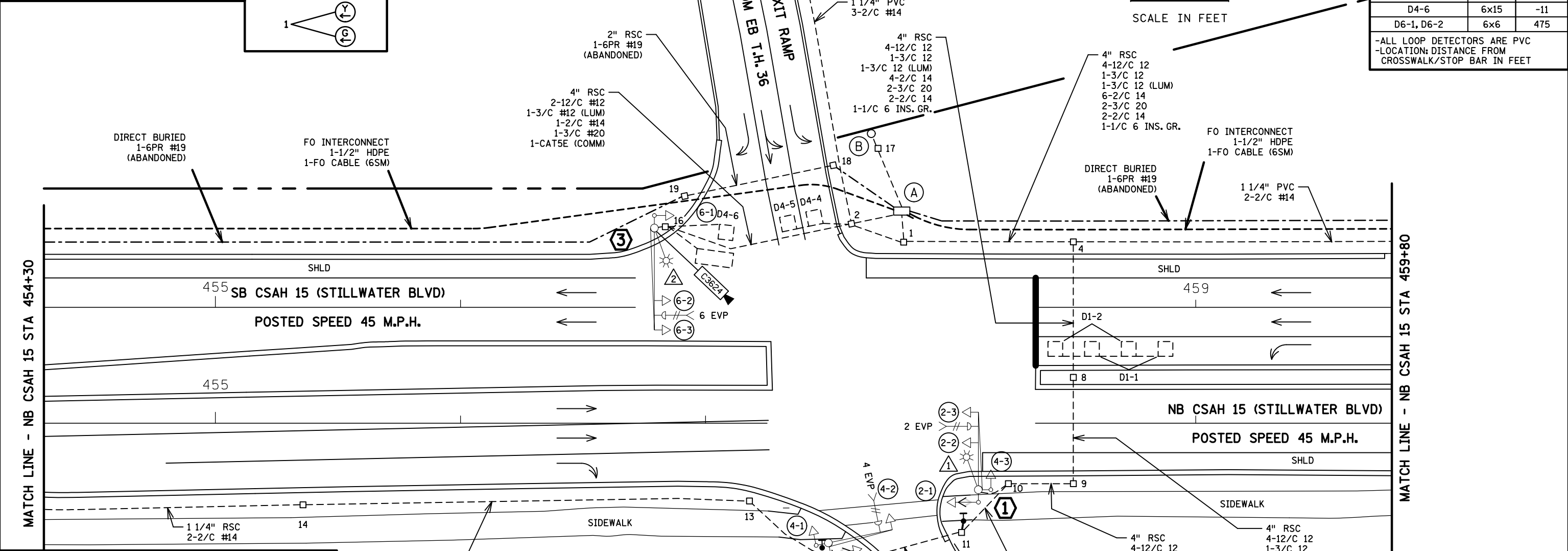
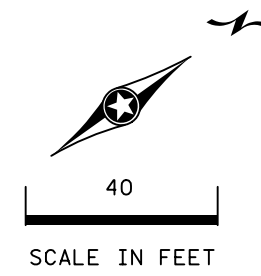
DISTRICT *: Metro
 IPLOT NAME: layout
 FILENAME: Projects\DM_FOS\036\0000\Traffic\Signal\7.65_15\Stillwater Blvd South Ramp-IT 35907\T21819_sgl.dgn

SIGNAL HEAD CHART					
FACE	R	Y	G	Y	G
2-1, 2-2, 2-3	○	○	○		
4-1, 4-2, 4-3	○	○	○		
6-1, 6-2	○	○	○		
6-3, 6-4	○	○	○	◀	◀



LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1	2-6x6	20 & 50
D1-2	2-6x6	5 & 35
D2-1, D2-2	6x6	400
D4-1, D4-2, D4-3	6x6	120
D4-4, D4-5	6x6	5
D4-6	6x6	0
D4-6	6x15	-11
D6-1, D6-2	6x6	475

-ALL LOOP DETECTORS ARE PVC
 -LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 1 BEING A PROTECTED/PERMISSIVE LEFT TURN PHASE WITH A LAGGING PROTECTED LEFT TURN PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

THE EXISTING PEDESTRIAN CROSSING IS ON PED RECALL.
 PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

BY	DATE	REVISIONS
SJK	6/5/23	PTZ CAMERA UPGRADE SP 8825-890

SYSTEM ID: 1735907 T.E. 38317
 METER ADDRESS: 6000 STILLWATER BLVD.
 OLD SYSTEM ID: 21819

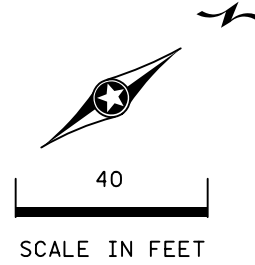
INTERSECTION LAYOUT
 T.H. 36 AT CSAH 15 (STILLWATER BLVD). RAMP
 IN OAK PARK HEIGHTS, WASHINGTON COUNTY

S.A.P. NO.	DRAWN BY: JAR	CKD BY: SJK	DATE: 8/6/21
CERTIFIED BY	LIC. NO. 26829		DATE: 9/28/21
STATE PROJ. NO. 8204-77 (T.H.36)		SHEET NO. SS18 OF SS25 SHEETS	

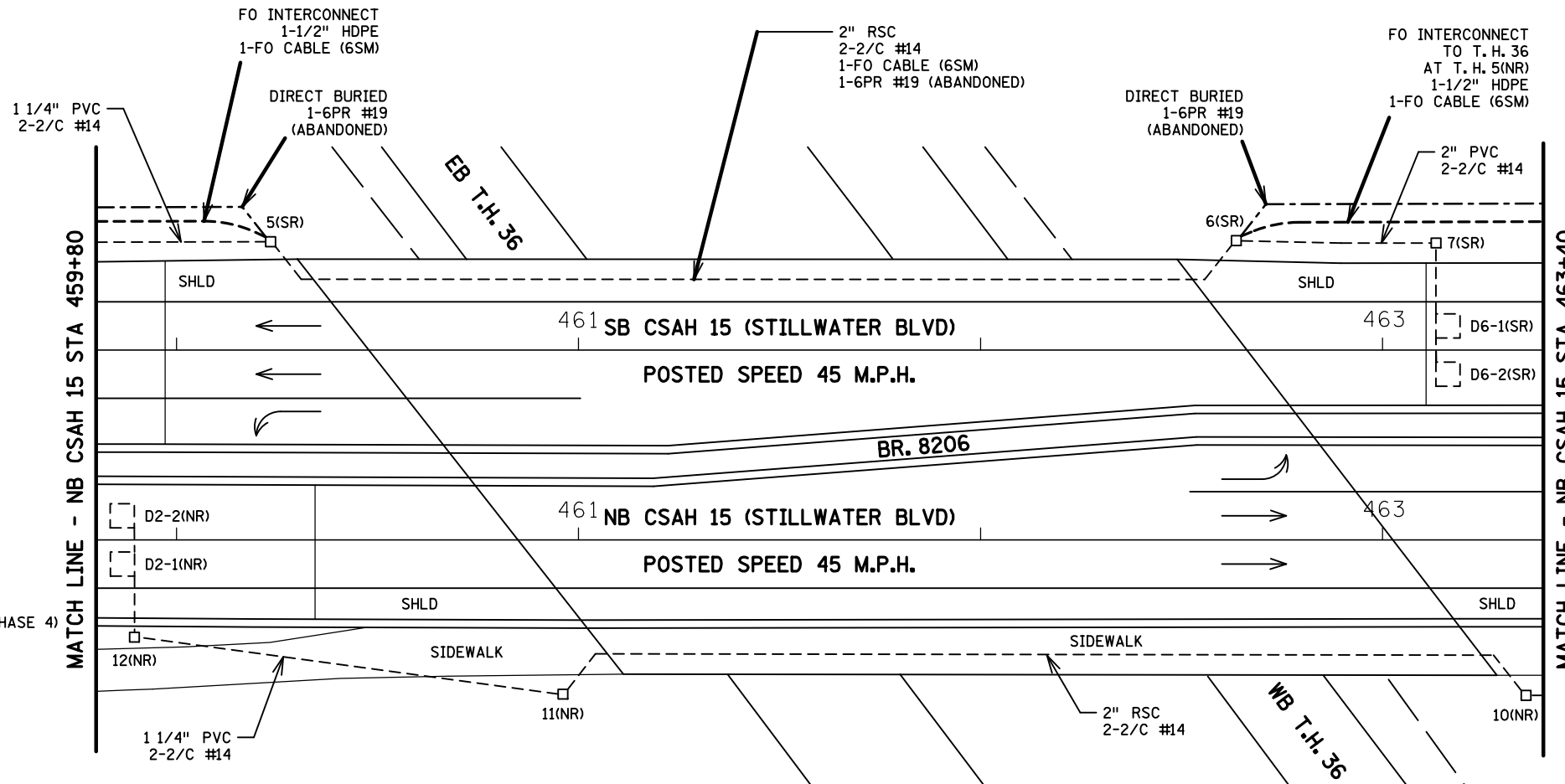
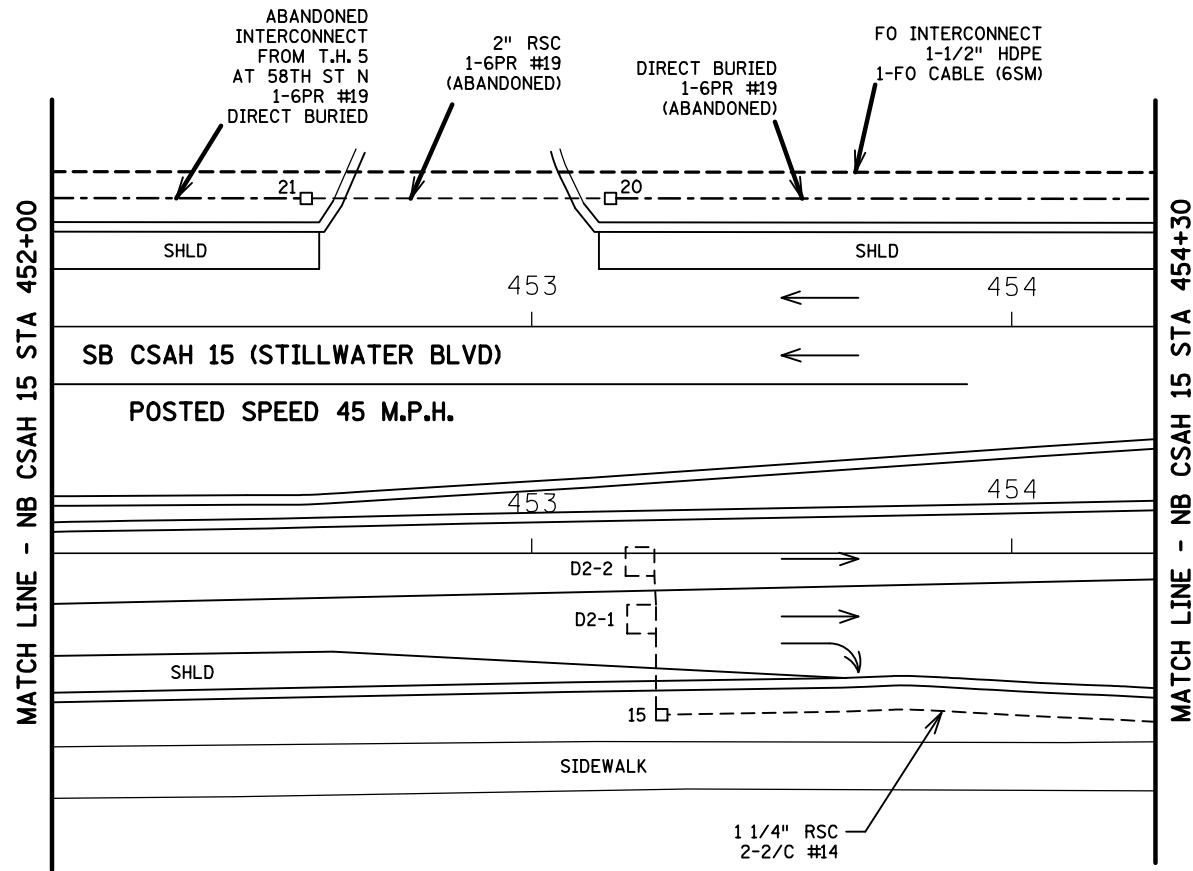
PLOTTED/REVISED: 5-JUN-2023

DISTRICT *: Metro
 IPLOT NAME: match lines
 FILENAME: Projects\DM_FROSO36\0000\Traffic\Signals\7.65_(15) STILLWATER BLVD SOUTH RAMP-IT 35907\T21819_sgl.dgn

- 3** PA100 POLE FOUNDATION
 TYPE PA100-A-40-X6-350/CAM 400 AT 350 DEG
 2-ONE-WAY SIGNALS OVERHEAD AT 0' AND 11'
 LUMINAIRE-200 WATT HPS
 TYPE 10A AT 180 DEG
 1-PTZ CAMERA (C3624)
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASES 1+6)
 1-R10-12 SIGN ADJACENT TO HEAD (6-3)
 2-R9-3 SIGNS (NO PEDS) FACING POLE 2 & NW QUADRANT
 EXTEND INTO HH 16:
 3" RSC
 2-12/C #12
 1-3/C#12 (LUM)
 1-3/C #20
 1-CAT5E (COMM)
 1-7/16" GROUNDING BRAID
 TO GROUND ROD IN HH 16



- 2** PA85 POLE FOUNDATION
 TYPE PA85-A-25
 1-ONE-WAY SIGNALS OVERHEAD AT 0'
 TYPE 10B AT 90 DEG
 TYPE 10A AT 180 DEG
 1-C.D. PED HEAD WITH MOUNTING (P2-1)
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASE 4)
 1-R9-3 SIGN (NO PEDS) FACING POLE 3
 EXTEND INTO HH 12:
 3" RSC
 2-12/C #12
 1-3/C#12
 1-3/C #20



- A** EQUIPMENT PAD
 SERVICE CABINET (120/240 VOLT)
 CONTROLLER AND CABINET
 4" RSC TO HH 2:
 2-12/C #12
 1-3/C #20
 6-2/C #14
 1-CAT5E (COMM)
 4" RSC TO HH 1:
 4-12/C #12
 1-3/C #12
 2-3/C #20
 8-2/C #14
- TO CONTROLLER CABINET LOCATED AT 58TH ST N
 3" RSC STUBBED OUT:
 1 1/2" PVC INSIDE 3" RSC:
 1-FIBER OPTIC CABLE (6SM)
- CONTROLLER CABINET TO HH 5 TH 36 @ CSAH 15 SR
 1 1/2" PVC :
 1-FIBER OPTIC CABLE (6SM)
- 2" RSC STUBBED OUT:
 DIRECT BURIED
 1-6PR#19 TO 58TH ST N
 (ABANDONED)
- 2" RSC STUBBED OUT:
 DIRECT BURIED
 1-6PR#19 TO TH 36 @ CSAH 15/5 NR
 (ABANDONED)
- CONTROLLER CABINET TO SERVICE CABINET:
 2" RSC
 2-1/C #6
 1-1/C # 6 INS. GR.
 LOAD CENTER TO SOP VIA HH 17:
 2" RSC
 3-1/C #2
 LOAD CENTER TO HH 1:
 2" RSC
 2-3/C #12 (LUM)
 HH 1 TO HH 2:
 1-3/C #12 (LUM)

- B** S.O.P. - WOOD POLE
 120/240 VOLT DISCONNECT
 ABOVE DISCONNECT
 2" RSC RISER WITH WEATHERHEAD:
 3-1/C #2
 BELOW DISCONNECT
 2" RSC RISER INTO HH 17:
 3-1/C #2

- 1** PA90 POLE FOUNDATION
 TYPE PA90-A-30-D40-9 (DAVIT AT 350 DEG)
 2-ONE-WAY SIGNALS OVERHEAD AT 0' AND 11'
 TYPE 10A AT 90 DEG
 TYPE 10B AT 180 DEG
 1-C.D. PED HEAD WITH MOUNTING (P2-2)
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASE 2)
 LUMINAIRE-200W HPS
 1-R9-3 SIGN (NO PEDS) FACING NW QUADRANT
 EXTEND INTO HH 10:
 3" RSC
 2-12/C #12
 1-3/C#12 (LUM)
 1-3/C #20

BY	DATE	REVISIONS
SJK	6/5/23	PTZ CAMERA UPGRADE

SYSTEM ID: 1735907 T.E. 38317
 METER ADDRESS: 6000 STILLWATER BLVD.
 OLD SYSTEM ID: 21819

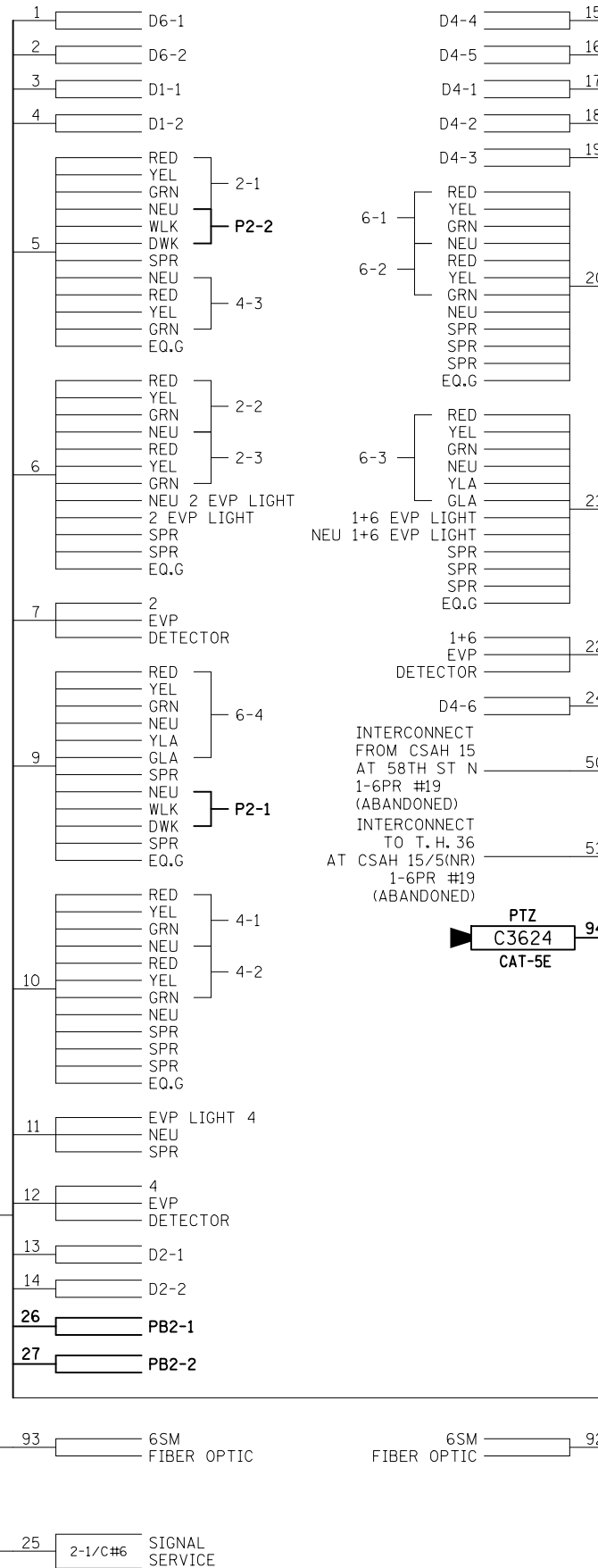
MATCH LINES LAYOUT AND NOTES
T.H. 36 AT CSAH 15 (STILLWATER BLVD)S. RAMP
IN OAK PARK HEIGHTS, WASHINGTON COUNTY

S.A.P. NO.	DRAWN BY: JAR	CKD BY: SJK	DATE: 8/6/21
CERTIFIED BY _____	LIC. NO. 26829	DATE: 9/28/21	
STATE PROJ. NO. 8204-77 (T.H.36)		SHEET NO. SS19 OF SS25 SHEETS	

PLOTTED/REVISED: 5-JUN-2023

DISTRICT *: Metro
 I/PLOT NAME: wiring diagram
 FILENAME: Projects\DM_FOS\036\0000\Traffic\Signals\7.65.15\5\15\STILLWATER_BLDV SOUTH_RAMP-IT\3590T\21819_sgl.dgn

CONTROLLER CABINET



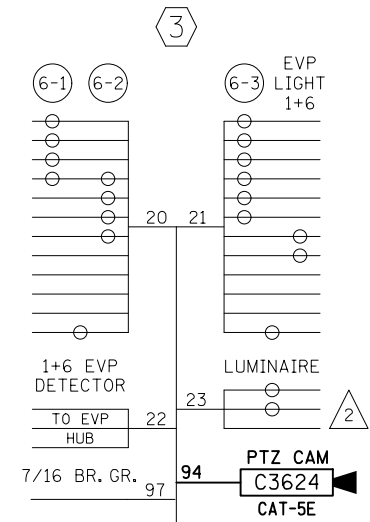
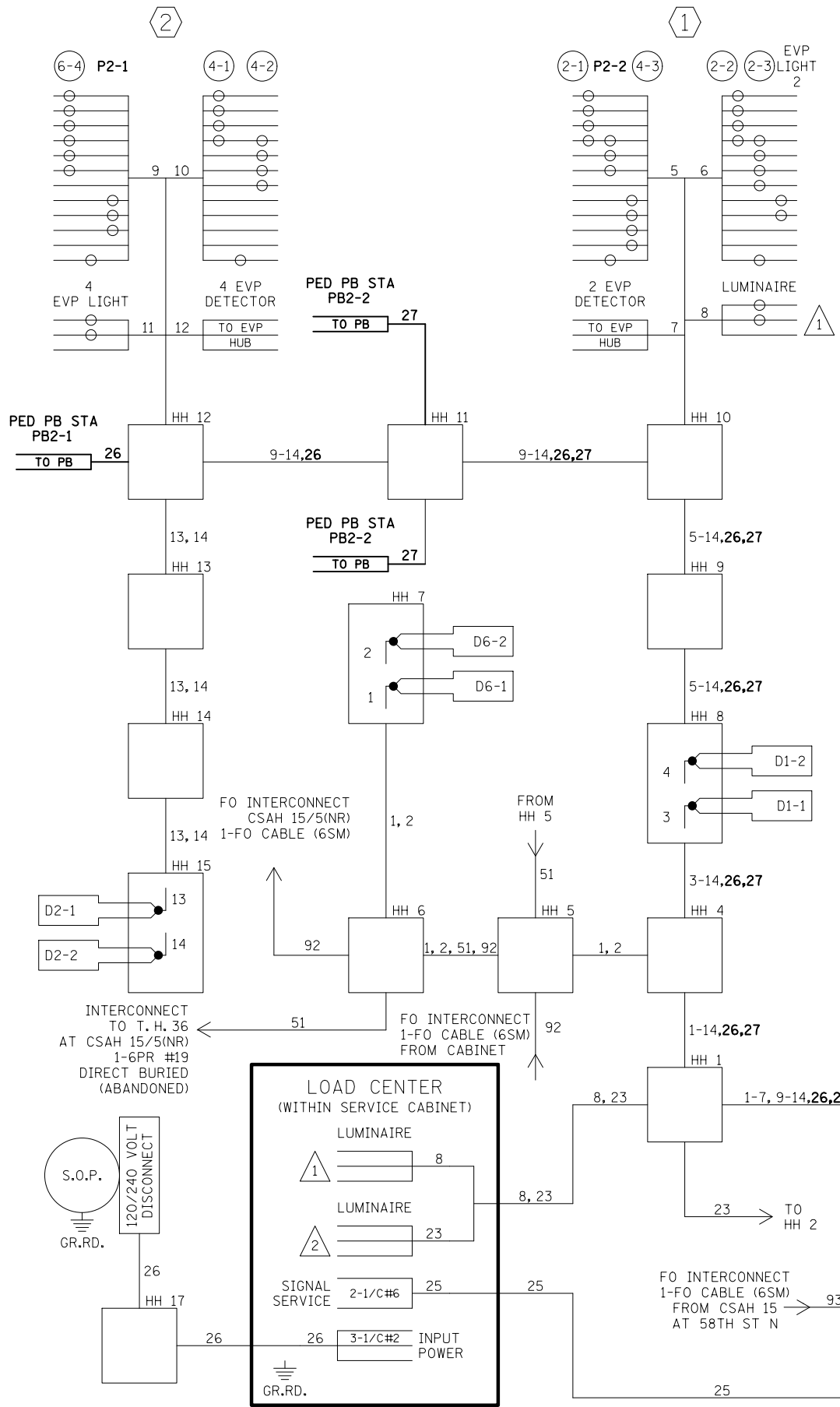
CONDUCTOR COLOR CODING

R	R
O	O
BL	BLK
WH	WH
R/BLK	G
O/BLK	
BL/BLK	R
WH/BLK	WH
BLK	BLK
BLK/WH	R OR O
G/BLK	WH OR YEL
G	BLK OR BL

12/C#12
 2-1/C#6
 6PR#19
 3/C#14

5/C#12
 3/C#12
 3/C#20
 2/C#14

NOTE: ALL TERMINAL BLOCK CONNECTIONS ARE ARRANGED AS SPECIFIED ABOVE



BY	DATE	REVISIONS
SJK	6/5/23	PTZ CAMERA UPGRADE

SYSTEM ID: 1735907	T.E. 38317
METER ADDRESS: 6000 STILLWATER BLVD.	
OLD SYSTEM ID: 21819	

FIELD WIRING DIAGRAM
 T.H. 36 AT CSAH 15 (STILLWATER BLVD). RAMP
 IN OAK PARK HEIGHTS, WASHINGTON COUNTY

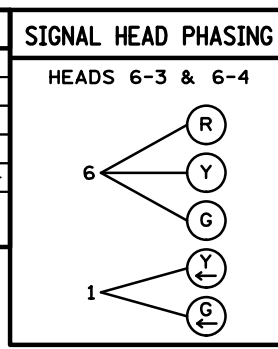
S.A.P. NO.	DRAWN BY: JAR	CKD BY: SJK	DATE: 8/6/21
CERTIFIED BY:	LIC. NO. 26829		DATE: 9/28/21
STATE PROJ. NO. 8204-77 (T.H.36) SHEET NO. SS20 OF SS25 SHEETS			

PLOTTED/REVISED: 23-JAN-2019

DISTRICT #: Metro
 IPLOT NAME: T21819_sgl
 PATH & FILENAME: Projects\DM_POS\03600000\Traffic\Signal\21819\T21819_sgl.dgn

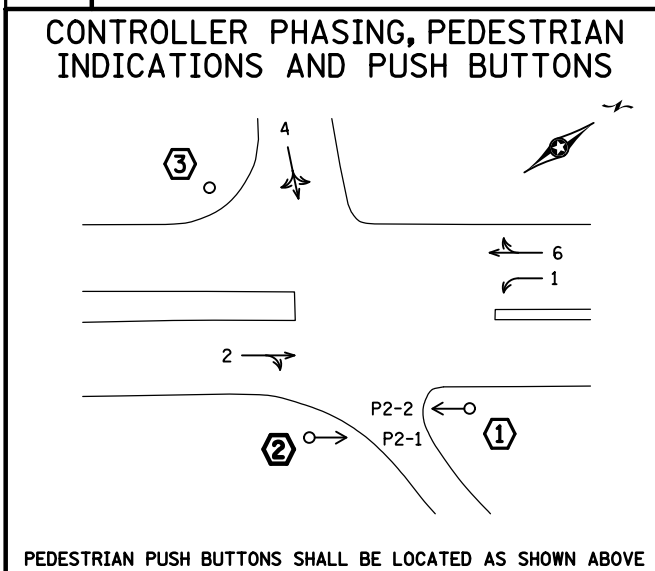
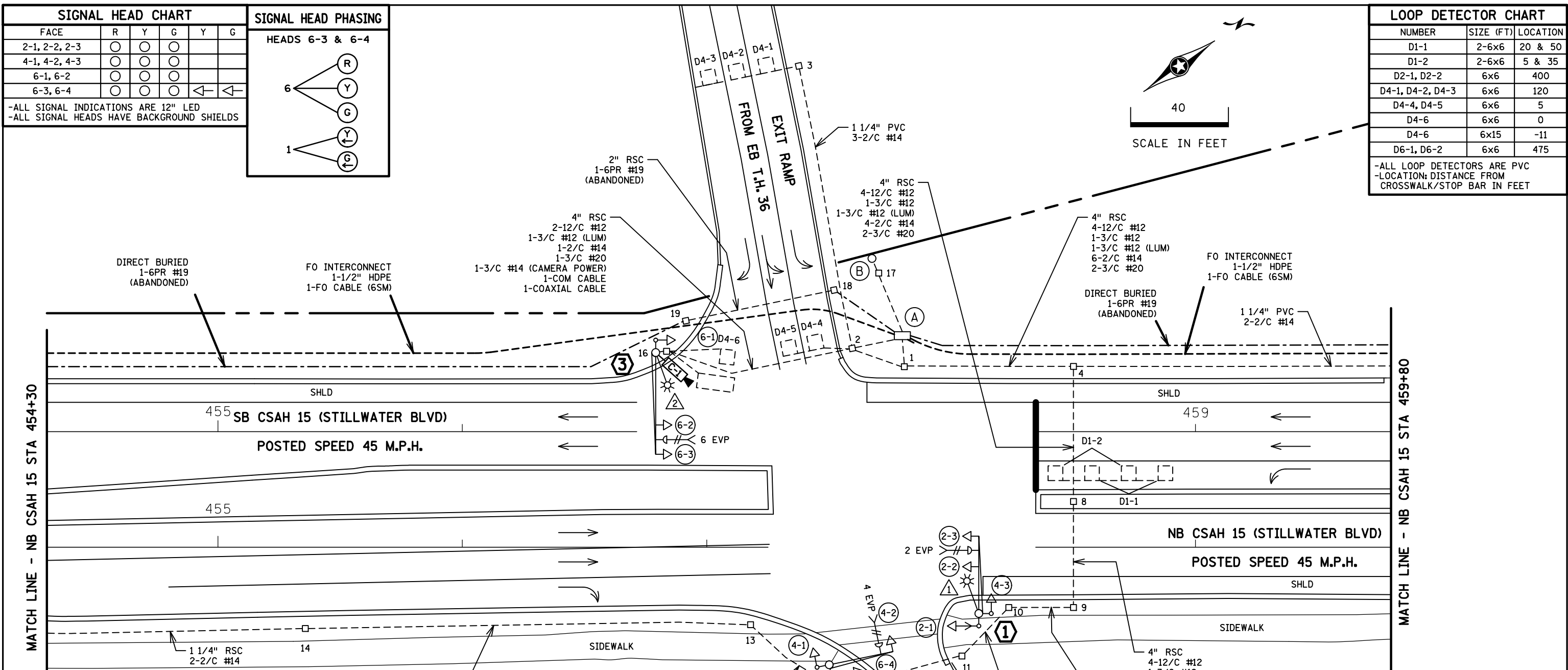
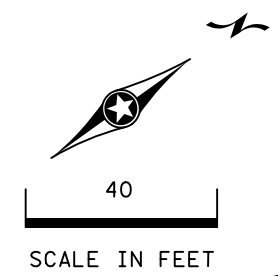
SIGNAL HEAD CHART					
FACE	R	Y	G	Y	G
2-1, 2-2, 2-3	○	○	○		
4-1, 4-2, 4-3	○	○	○		
6-1, 6-2	○	○	○		
6-3, 6-4	○	○	○	◀	◀

-ALL SIGNAL INDICATIONS ARE 12" LED
 -ALL SIGNAL HEADS HAVE BACKGROUND SHIELDS



LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1	2-6x6	20 & 50
D1-2	2-6x6	5 & 35
D2-1, D2-2	6x6	400
D4-1, D4-2, D4-3	6x6	120
D4-4, D4-5	6x6	5
D4-6	6x6	0
D4-6	6x15	-11
D6-1, D6-2	6x6	475

-ALL LOOP DETECTORS ARE PVC
 -LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 1 BEING A PROTECTED/PERMISSIVE LEFT TURN PHASE WITH A LAGGING PROTECTED LEFT TURN PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

BY	DATE	REVISIONS
EJA	06-24-14	AS-BUILT OF SP 8204-66 FIBER & CAMERA
EJA	07-10-15	TH 5 TURNED BACK TO WASH CO ON 6-30-15-NOW CSAH 15
JDC	01-22-19	POSTED SPEED LIMIT REDUCED FROM 50 TO 45

SYSTEM ID: 1735907 T.E.
 METER ADDRESS: 6000 STILLWATER BLVD.
 OLD SYSTEM ID: 21819

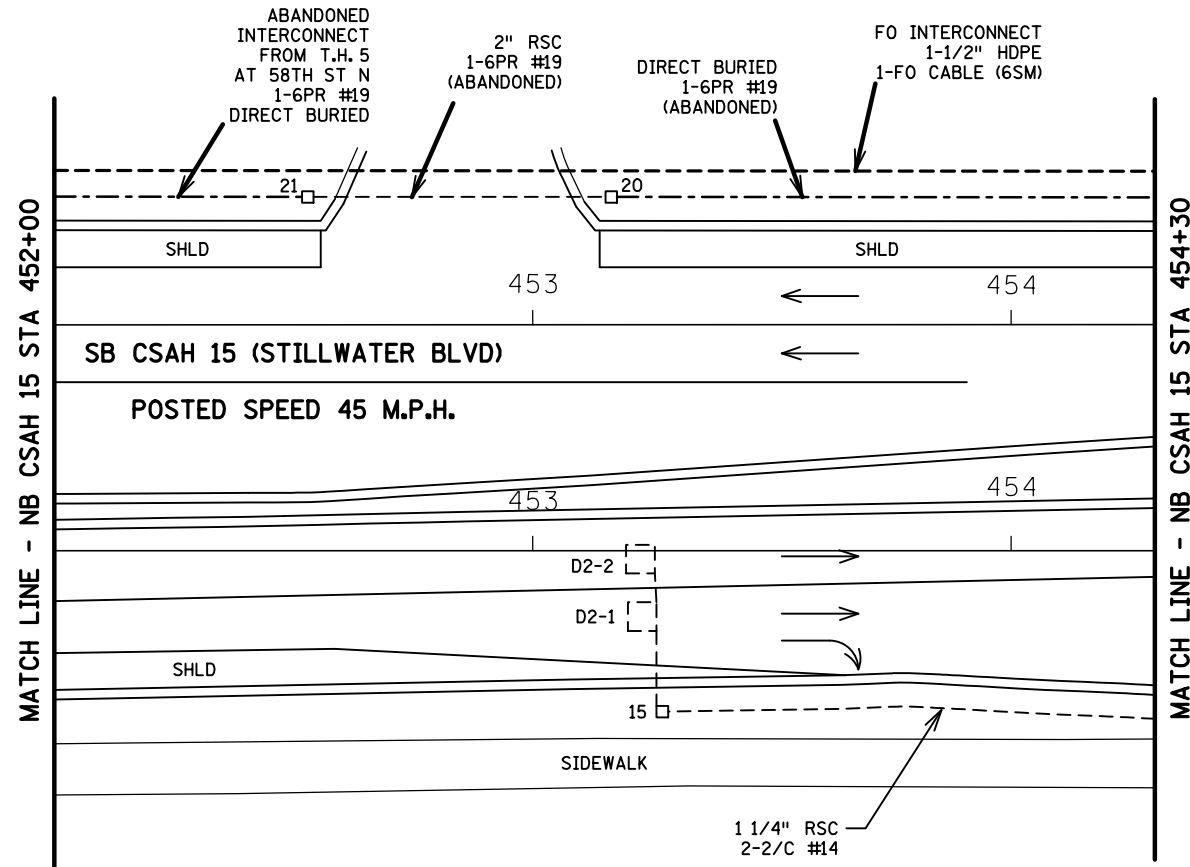
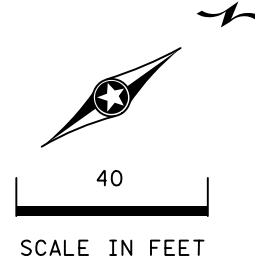
INTERSECTION LAYOUT
 T.H. 36 AT CSAH 15 (STILLWATER BLVD)
 S. RAMP
 IN OAK PARK HEIGHTS, WASHINGTON COUNTY

S.A.P. NO.	DRAWN BY:GDS	CKD BY:EJA	DATE:01-17-13
CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
STATE PROJ.NO.	(T.H.36)	SHEET NO.	1 OF 3 SHEETS

PLOTTED/REVISED: 23-JAN-2019

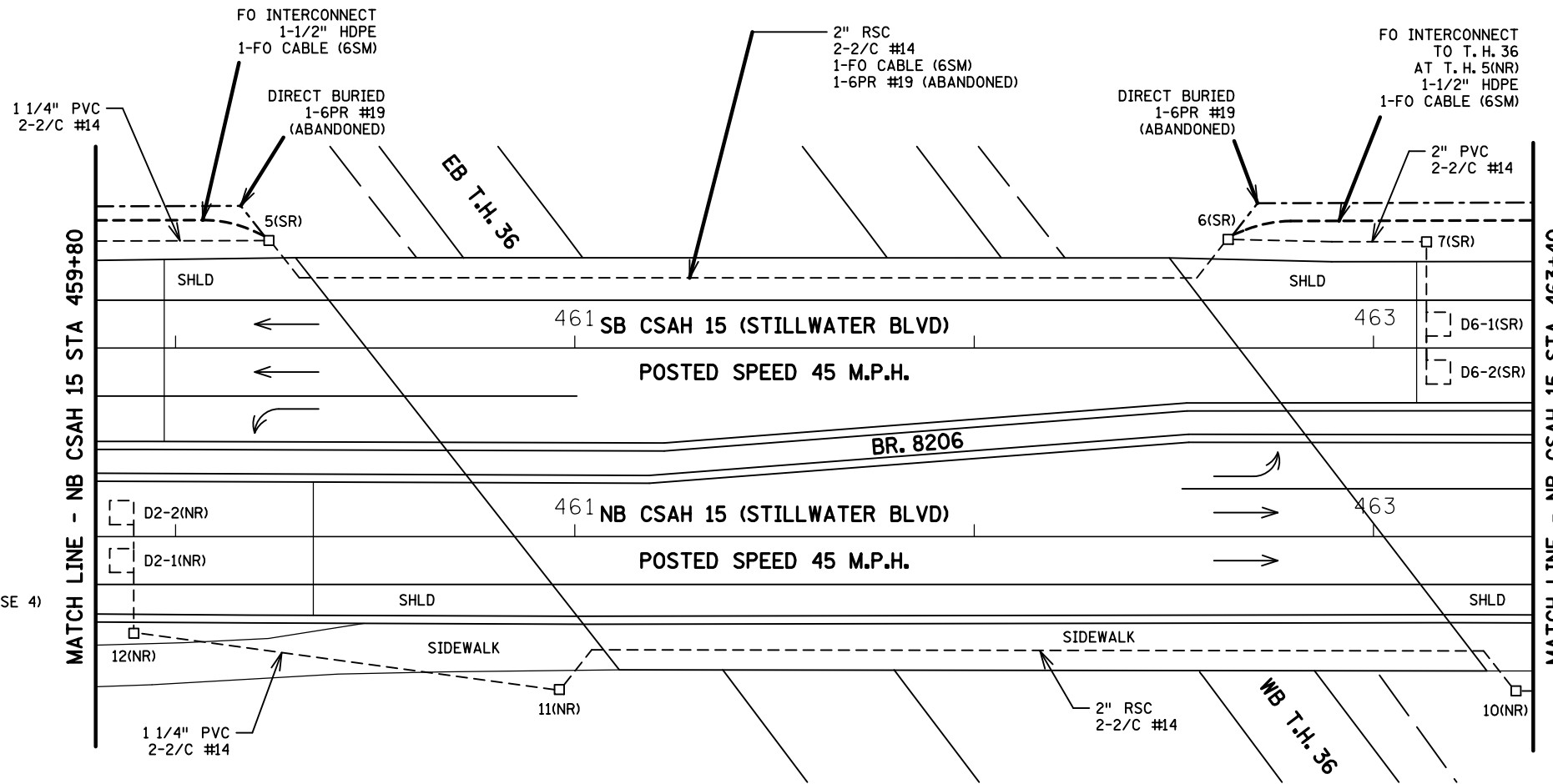
DISTRICT #: Metro
 IPLOT NAME: T21819_sgl
 PATH & FILENAME: Projects\DM_FOS\0360000\Traffic\Signals\21819\T21819_sgl.dgn

- 3** PA100 POLE FOUNDATION
 TYPE PA100-A-40-X6-350/CAM 400 AT 350 DEG
 2-ONE-WAY SIGNALS OVERHEAD AT 0' AND 11'
 LUMINAIRE-200 WATT HPS
 TYPE 10A AT 180 DEG
 VIDEO CAMERA
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASES 1+6)
 1-R10-12 SIGN ADJACENT TO HEAD (6-3)
 2-R9-3 SIGNS (NO PEDS) FACING POLE 2 & NW QUADRANT
 EXTEND INTO HH 16:
 3" RSC
 2-12/C #12
 1-3/C#12 (LUM)
 1-3/C #20
 1-3/C #14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE
 1-7/16" GROUNDING BRAID
 TO GROUND ROD IN HH 16



- A** EQUIPMENT PAD
 SERVICE CABINET (120/240 VOLT)
 CONTROLLER AND CABINET
 4" RSC TO HH 2: 4" RSC TO HH 1:
 2-12/C #12 4-12/C #12
 1-3/C #20 1-3/C #12
 6-2/C #14 2-3/C #20
 1-3/C #14 (CAMERA POWER) 6-2/C #14
 1-COM CABLE
 1-COAXIAL CABLE
- TO CONTROLLER CABINET LOCATED AT 58TH ST N
 3" RSC STUBBED OUT:
 1 1/2" PVC INSIDE 3" RSC:
 1-FIBER OPTIC CABLE (6SM)
- CONTROLLER CABINET TO HH 5 TH 36 @ CSAH 15 SR
 1 1/2" PVC:
 1-FIBER OPTIC CABLE (6SM)
- 2" RSC STUBBED OUT:
 DIRECT BURIED
 1-6PR#19 TO 58TH ST N
 (ABANDONED)
- 2" RSC STUBBED OUT:
 DIRECT BURIED
 1-6PR#19 TO TH 36 @ CSAH 15/5 NR
 (ABANDONED)
- CONTROLLER CABINET TO SERVICE CABINET:
 2" RSC
 2-1/C #6
 1-1/C # 6 INS. GR.
 LOAD CENTER TO SOP VIA HH 17:
 2" RSC
 3-1/C #2
 LOAD CENTER TO HH 1:
 2" RSC
 2-3/C #12 (LUM)
 HH 1 TO HH 2:
 1-3/C #12 (LUM)

- 2** PA85 POLE FOUNDATION
 TYPE PA85-A-25
 1-ONE-WAY SIGNALS OVERHEAD AT 0'
 TYPE 10B AT 90 DEG
 TYPE 10A AT 180 DEG
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASE 4)
 1-R9-3 SIGN (NO PEDS) FACING POLE 3
 EXTEND INTO HH 12:
 3" RSC
 2-12/C #12
 1-3/C#12
 1-3/C #20



- B** S.O.P. - WOOD POLE
 120/240 VOLT DISCONNECT
 ABOVE DISCONNECT
 2" RSC RISER WITH WEATHERHEAD:
 3-1/C #2
 BELOW DISCONNECT
 2" RSC RISER INTO HH 17:
 3-1/C #2

- 1** PA90 POLE FOUNDATION
 TYPE PA90-A-30-D40-9 (DAVIT AT 350 DEG)
 2-ONE-WAY SIGNALS OVERHEAD AT 0' AND 11'
 TYPE 10A AT 90 DEG
 TYPE 10B AT 180 DEG
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASE 2)
 LUMINAIRE-200W HPS
 1-R9-3 SIGN (NO PEDS) FACING NW QUADRANT
 EXTEND INTO HH 10:
 3" RSC
 2-12/C #12
 1-3/C#12 (LUM)
 1-3/C #20

BY	DATE	REVISIONS	SYSTEM ID: 1735907	T.E.	S.A.P. NO.	DRAWN BY:GDS	CKD BY:EJA	DATE:01-17-13
EJA	06-24-14	AS-BUILT OF SP 8204-66 FIBER & CAMERA	METER ADDRESS: 6000 STILLWATER BLVD.		CERTIFIED BY _____	LICENSED PROFESSIONAL ENGINEER	LIC. NO. _____	DATE: _____
EJA	07-10-15	TH 5 TURNED BACK TO WASH CO ON 6-30-15-NOW CSAH 15	OLD SYSTEM ID: 21819		STATE PROJ.NO.	(T.H.36)	SHEET NO.	2 OF 3 SHEETS
JDC	01-22-19	POSTED SPEED LIMIT REDUCED FROM 50 TO 45						

MATCH LINES LAYOUT AND NOTES
T.H. 36 AT CSAH 15 (STILLWATER BLVD)
S. RAMP
IN OAK PARK HEIGHTS, WASHINGTON COUNTY

PLOTTED/REVISED: 23-JAN-2019

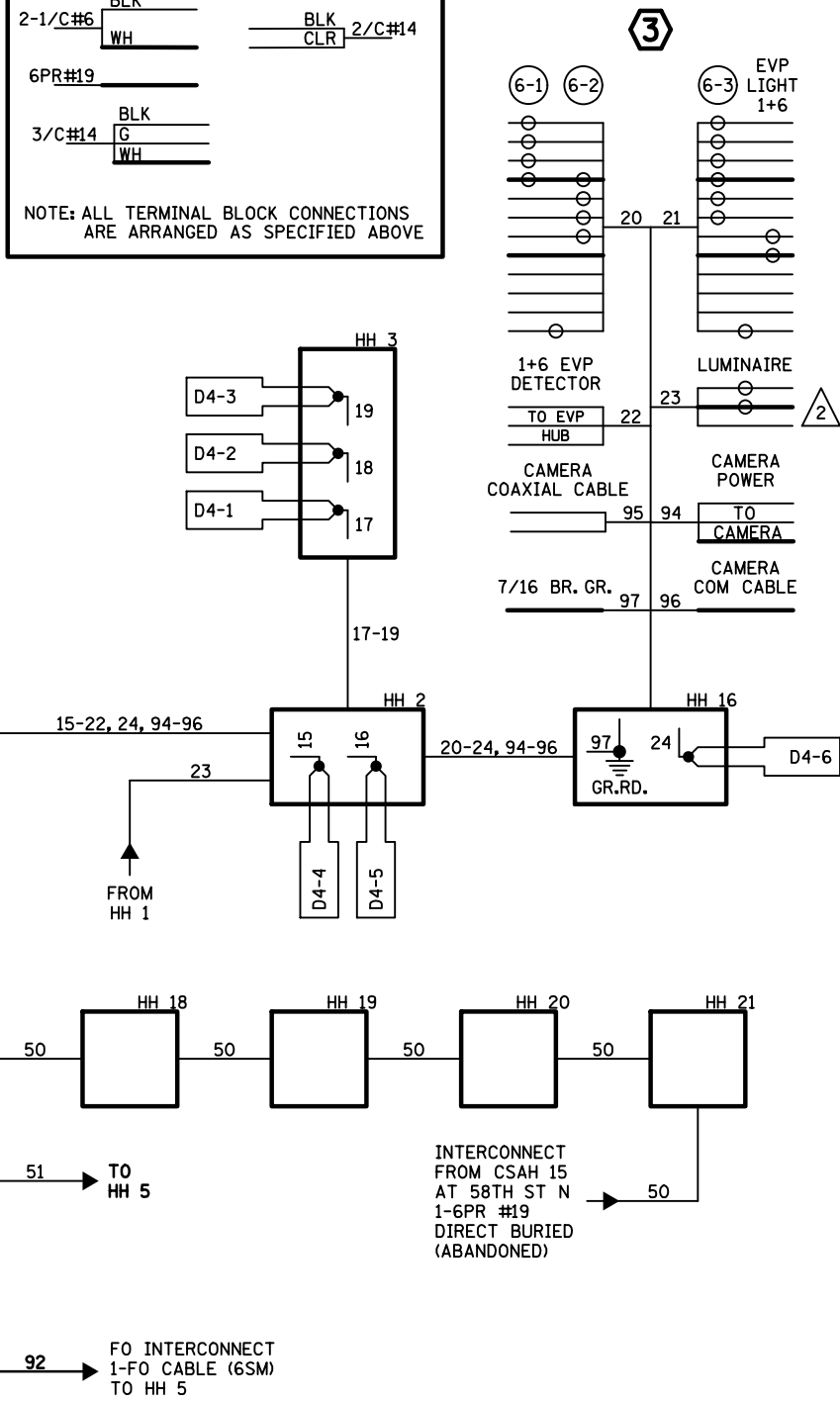
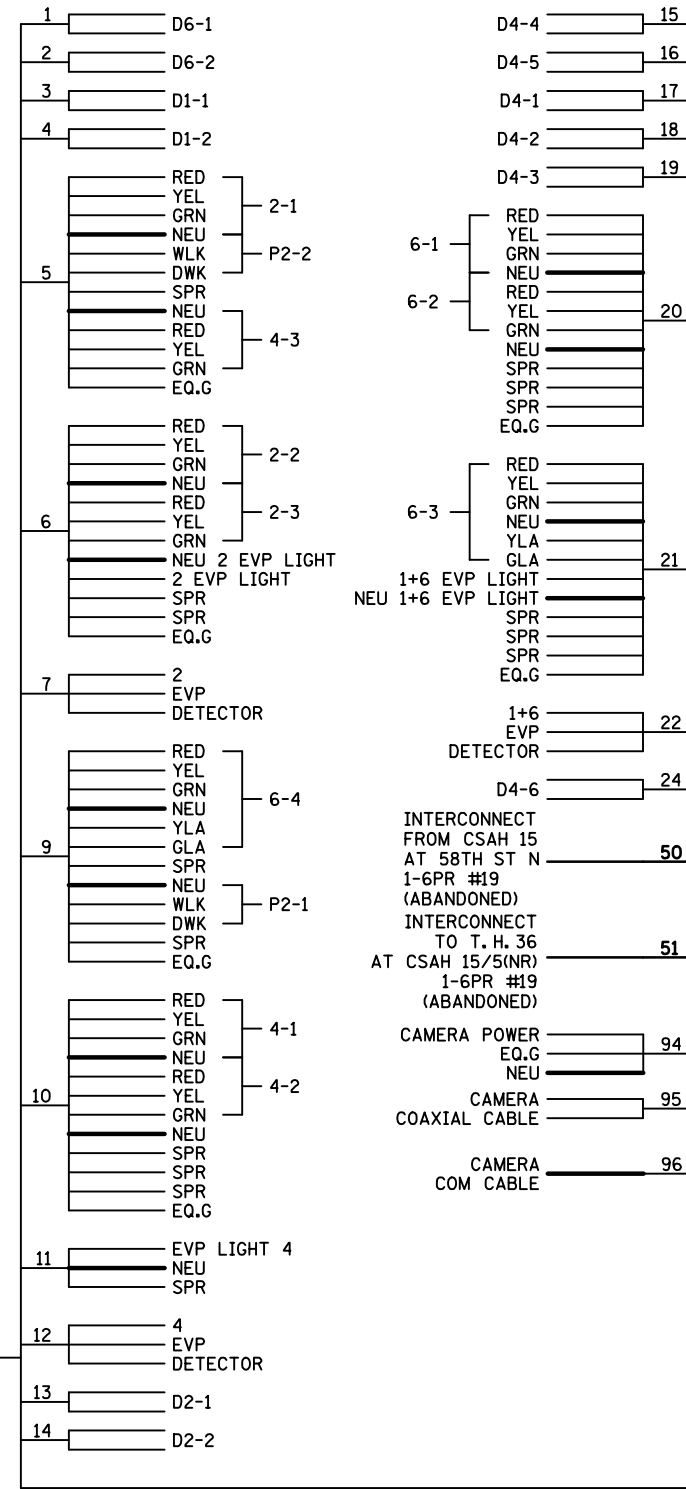
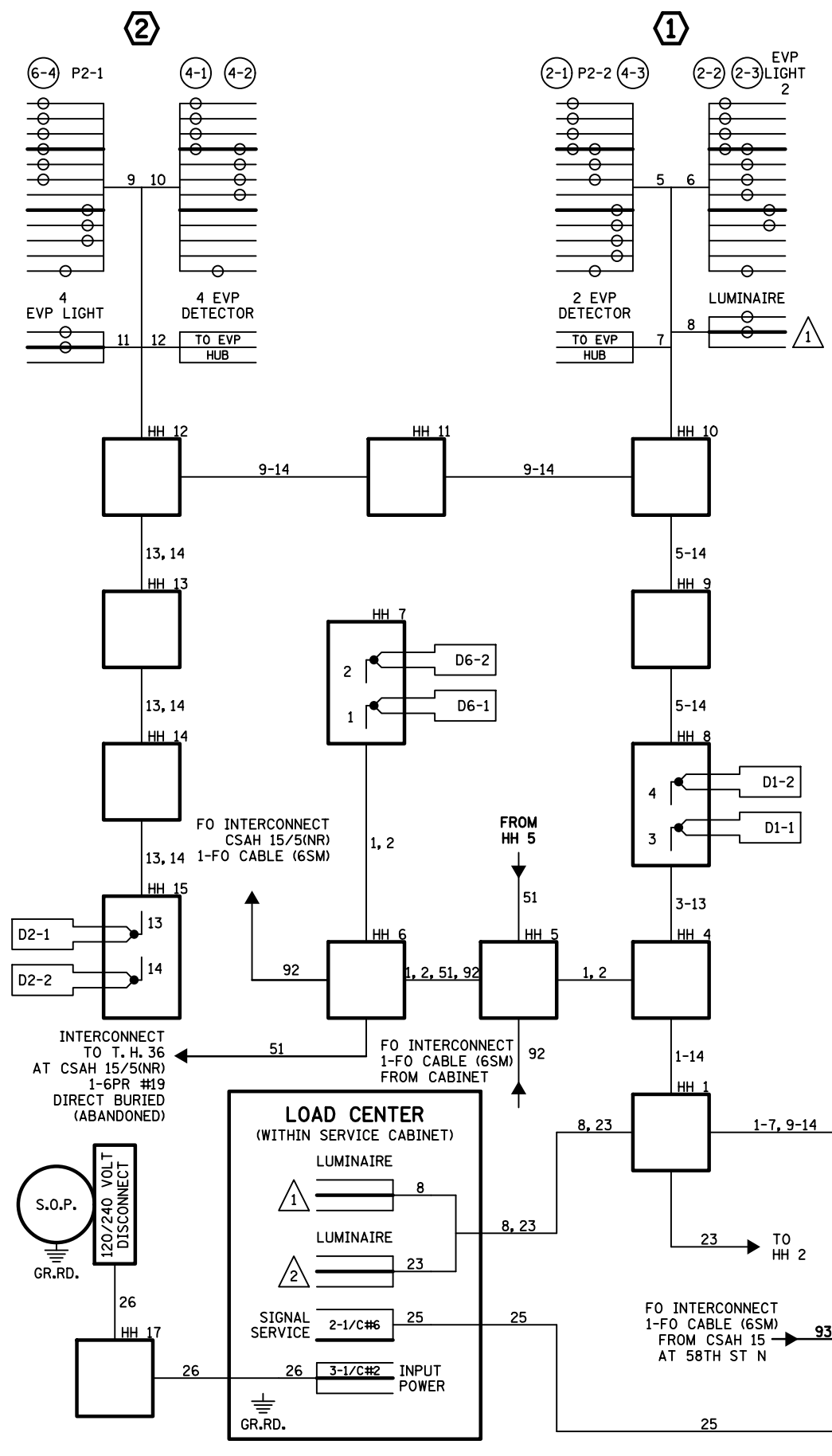
DISTRICT #: Metro
PLOT NAME: T21819_sgl
PATH & FILENAME: Projects\DM_POS\0360000\Traffic\Signal\21819\T21819_sgl.dgn

CONTROLLER CABINET

CONDUCTOR COLOR CODING

R	R
O	O
BL	BLK 5/C#12
WH	WH
R/BLK	G
O/BLK	
BL/BLK	R
WH/BLK	WH 3/C#12
BLK	BLK
BLK/WH	R OR O
G/BLK	WH OR YEL 3/C#20
G	BLK OR BL
2-1/C#6	BLK
	WH 2/C#14
6PR#19	
3/C#14	BLK
	G
	WH

NOTE: ALL TERMINAL BLOCK CONNECTIONS ARE ARRANGED AS SPECIFIED ABOVE



BY	DATE	REVISIONS
EJA	06-24-14	AS-BUILT OF SP 8204-66 FIBER & CAMERA
EJA	07-10-15	TH 5 TURNED BACK TO WASH CO ON 6-30-15-NOW CSAH 15

SYSTEM ID: 1735907 T.E.
 METER ADDRESS: 6000 STILLWATER BLVD.
 OLD SYSTEM ID: 21819

FIELD WIRING DIAGRAM
 T.H. 36 AT CSAH 15 (STILLWATER BLVD)
 S. RAMP
 IN OAK PARK HEIGHTS, WASHINGTON COUNTY

S.A.P. NO.	DRAWN BY:GDS	CKD BY:EJA	DATE:01-17-13
CERTIFIED BY _____	LICENSED PROFESSIONAL ENGINEER	LIC. NO. _____	DATE: _____
STATE PROJ.NO.	(T.H.36)	SHEET NO.	3 OF 3 SHEETS