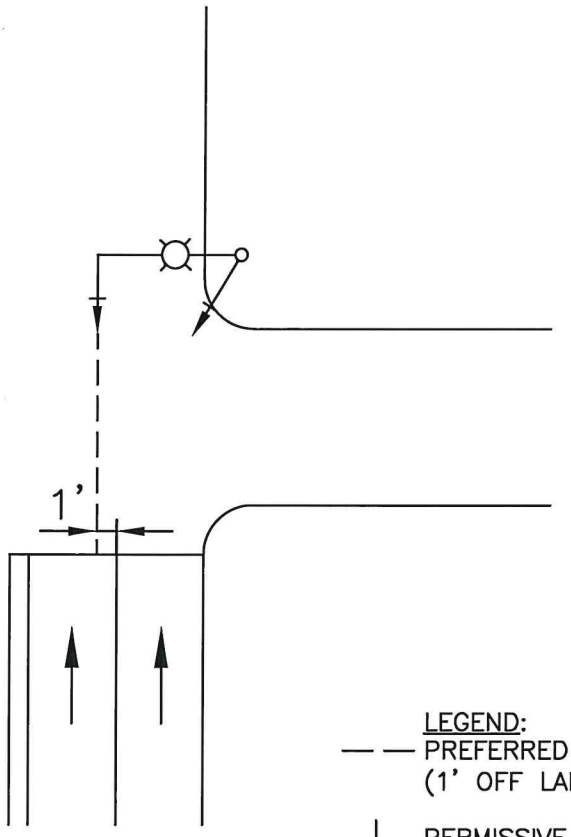


LEGEND:
— — PREFERRED PLACEMENT (1' OFF LANE LINE)

PERMISSIVE SIGNAL INDICATION

LUMINAIRE (SAFETY LIGHT)

NOTE:
TRAFFIC ENGINEER SHALL DESIGN TRAFFIC SIGNAL LOCATION AND ORIENTATION BASED ON THE OPERATION AND SAFETY OF EACH INTERSECTION. THE DESIGN SHALL BE APPROVED BY THE CITY ENGINEER.

CITY OF CLOVIS

TRAFFIC SIGNAL HEAD LOCATIONS
2 THROUGH LANES ONLY

DWG NO. TS-1

REF.: STANDARD SPEC. SECTION 86

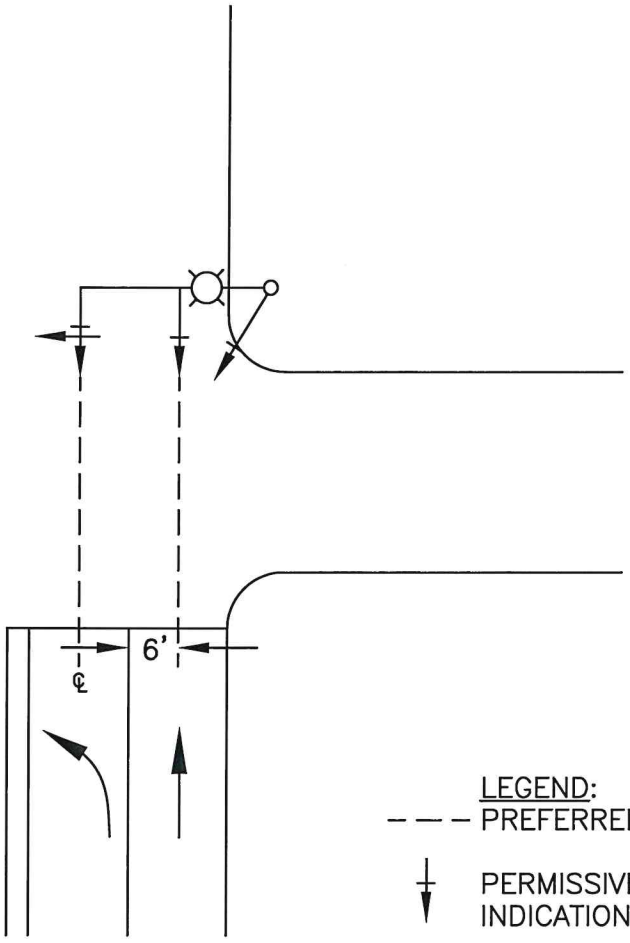
APPROVED BY:
CITY ENGINEER
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
	04-14-09	BGJ	CM
	01-14-11	BGJ	DRU
2	10-07-19	CGV	PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



LEGEND:
- – – – PREFERRED PLACEMENT
- PERMISSIVE SIGNAL INDICATION
- PROTECTED LEFT–TURN SIGNAL INDICATION
- LUMINAIRE (SAFETY LIGHT)

NOTE:
TRAFFIC ENGINEER SHALL DESIGN TRAFFIC SIGNAL LOCATION AND ORIENTATION BASED ON THE OPERATION AND SAFETY OF EACH INTERSECTION. THE DESIGN SHALL BE APPROVED BY THE CITY ENGINEER.

CITY OF CLOVIS

DWG NO. TS-1A

TRAFFIC SIGNAL HEAD LOCATIONS
1 THROUGH LANE AND SEPARATE PROTECTED LEFT TURN LANE

REF.: STANDARD SPEC. SECTION 86

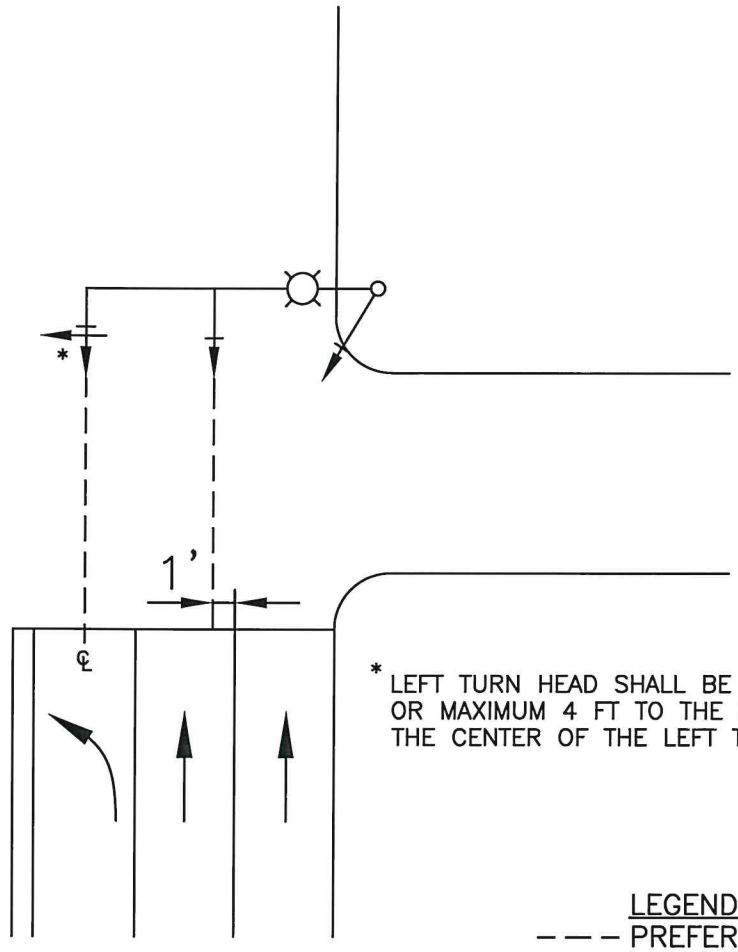
APPROVED BY:
CITY ENGINEER
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
	04–14–09	BGJ	CM
	01–14–11	BGJ	DRU
	11–07–19	CGV	PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



* LEFT TURN HEAD SHALL BE AS SHOWN OR MAXIMUM 4 FT TO THE LEFT FROM THE CENTER OF THE LEFT TURN LANE.

LEGEND:

- – – PREFERRED PLACEMENT (1' OFF LANE LINE)
- PERMISSIVE SIGNAL INDICATION
- PROTECTED LEFT–TURN SIGNAL INDICATION
- LUMINAIRE (SAFETY LIGHT)

NOTE:
TRAFFIC ENGINEER SHALL DESIGN TRAFFIC SIGNAL LOCATION AND ORIENTATION BASED ON THE OPERATION AND SAFETY OF EACH INTERSECTION. THE DESIGN SHALL BE APPROVED BY THE CITY ENGINEER.

CITY OF CLOVIS

DWG NO. TS-1C

TRAFFIC SIGNAL HEAD LOCATIONS
2 THROUGH LANES WITH PROTECTED LEFT TURN LANE

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

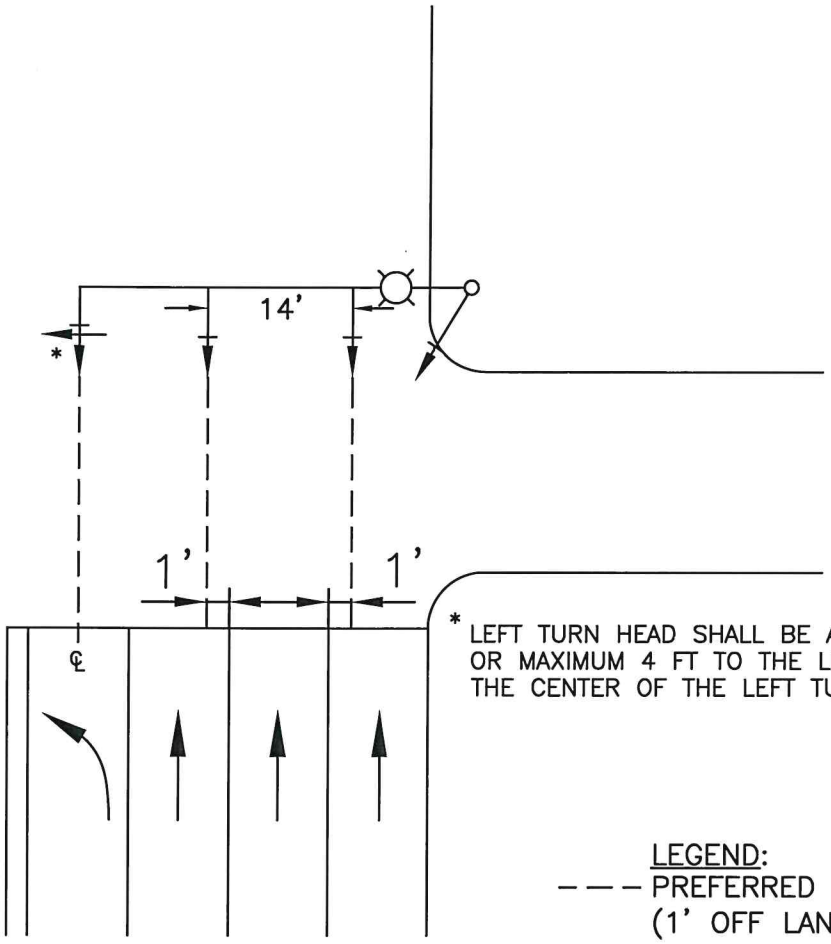
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
___	04–14–09	BGJ	CM
___	01–14–11	BGJ	DRU
2	10–07–19	CGV	PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



* LEFT TURN HEAD SHALL BE AS SHOWN OR MAXIMUM 4 FT TO THE LEFT FROM THE CENTER OF THE LEFT TURN LANE.

LEGEND:

- – – PREFERRED PLACEMENT (1' OFF LANE LINE)
- PERMISSIVE SIGNAL INDICATION
- PROTECTED LEFT–TURN SIGNAL INDICATION
- LUMINAIRE (SAFETY LIGHT)

NOTE:
TRAFFIC ENGINEER SHALL DESIGN TRAFFIC SIGNAL LOCATION AND ORIENTATION BASED ON THE OPERATION AND SAFETY OF EACH INTERSECTION. THE DESIGN SHALL BE APPROVED BY THE CITY ENGINEER.

CITY OF CLOVIS

DWG NO. TS-1D

TRAFFIC SIGNAL HEAD LOCATIONS
3 THROUGH LANES WITH PROTECTED LEFT TURN LANE

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

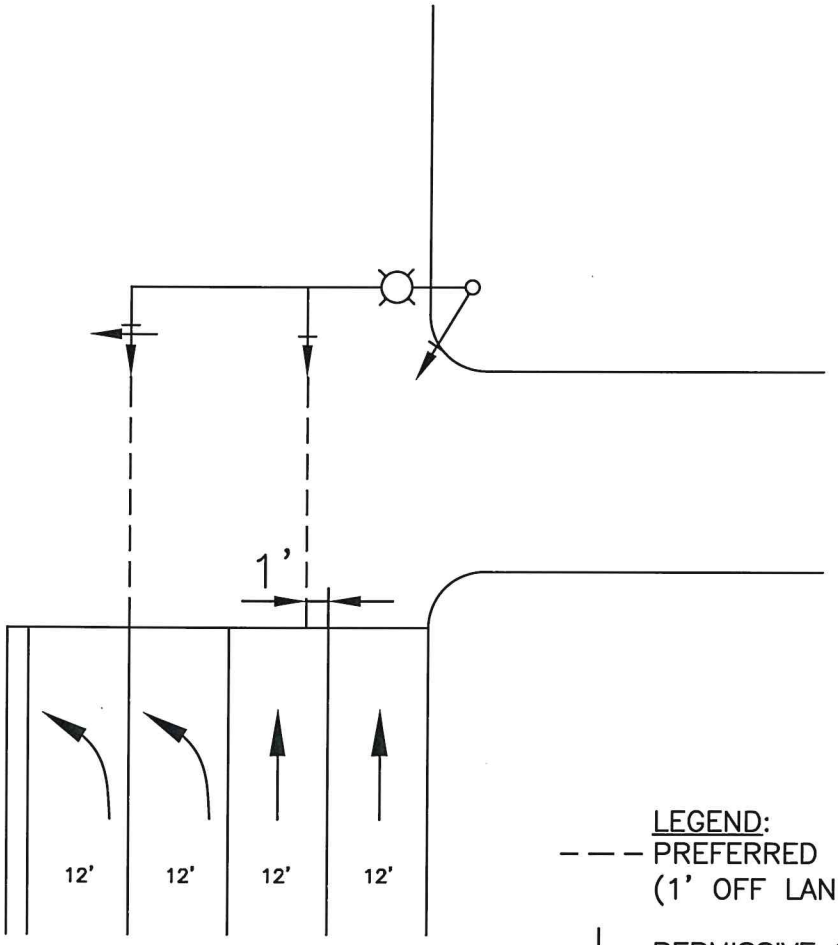
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
	04-14-09	BGJ	CM
	01-18-11	BGJ	DRU
	11-07-19	CGV	PUD PA

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



LEGEND:

- – – – PREFERRED PLACEMENT (1' OFF LANE LINE)
- PERMISSIVE SIGNAL INDICATION
- PROTECTED LEFT–TURN SIGNAL INDICATION
- LUMINAIRE (SAFETY LIGHT)

NOTE:
TRAFFIC ENGINEER SHALL DESIGN TRAFFIC SIGNAL LOCATION AND ORIENTATION BASED ON THE OPERATION AND SAFETY OF EACH INTERSECTION. THE DESIGN SHALL BE APPROVED BY THE CITY ENGINEER.

CITY OF CLOVIS

DWG NO. TS-1E

TRAFFIC SIGNAL HEAD LOCATIONS
2 THROUGH LANES WITH 2 PROTECTED LEFT TURN LANES

REF.: STANDARD SPEC. SECTION 86

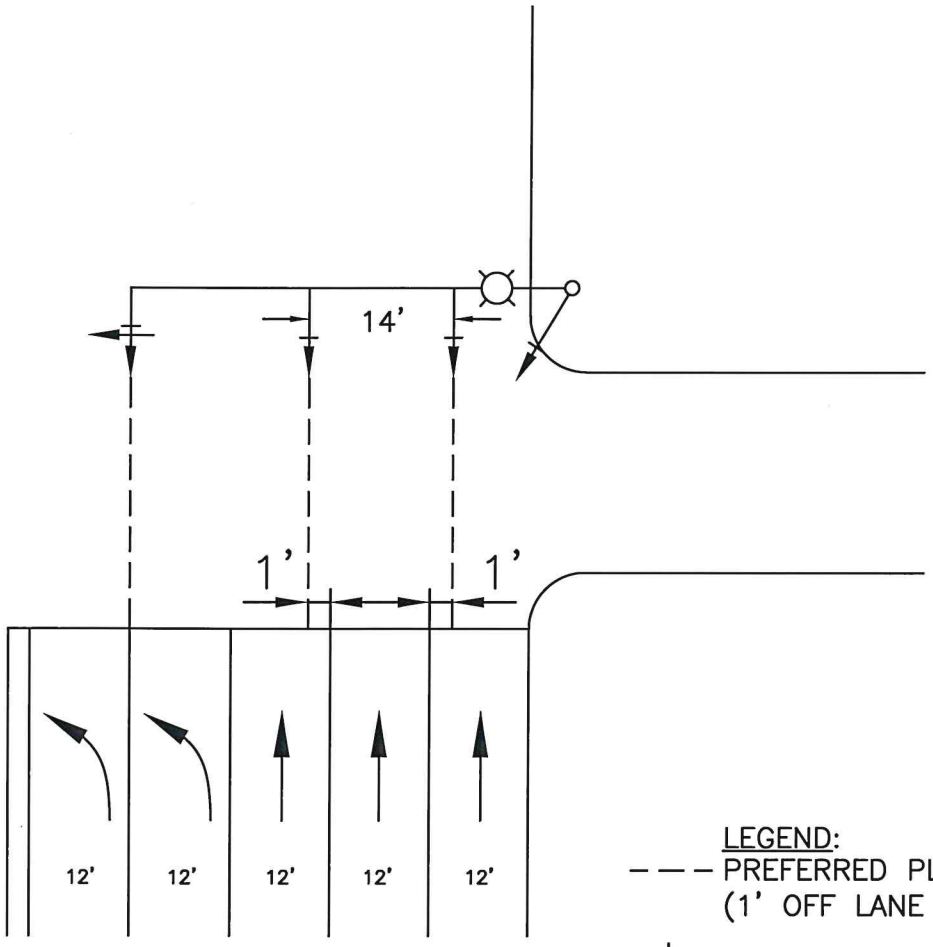
APPROVED BY:
CITY ENGINEER
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
	04–14–09	BGJ	CM
	01–18–11	BGJ	DRU
	11–07–19	CGV	PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



LEGEND:

- – – PREFERRED PLACEMENT (1' OFF LANE LINE)
- PERMISSIVE SIGNAL INDICATION
- PROTECTED LEFT–TURN SIGNAL INDICATION
- LUMINAIRE (SAFETY LIGHT)

NOTE:
TRAFFIC ENGINEER SHALL DESIGN TRAFFIC SIGNAL LOCATION AND ORIENTATION BASED ON THE OPERATION AND SAFETY OF EACH INTERSECTION. THE DESIGN SHALL BE APPROVED BY THE CITY ENGINEER.

CITY OF CLOVIS

DWG NO. TS-1F

TRAFFIC SIGNAL HEAD LOCATIONS
3 THROUGH LANES WITH 2 PROTECTED LEFT TURN LANES

REF.: STANDARD SPEC. SECTION 86

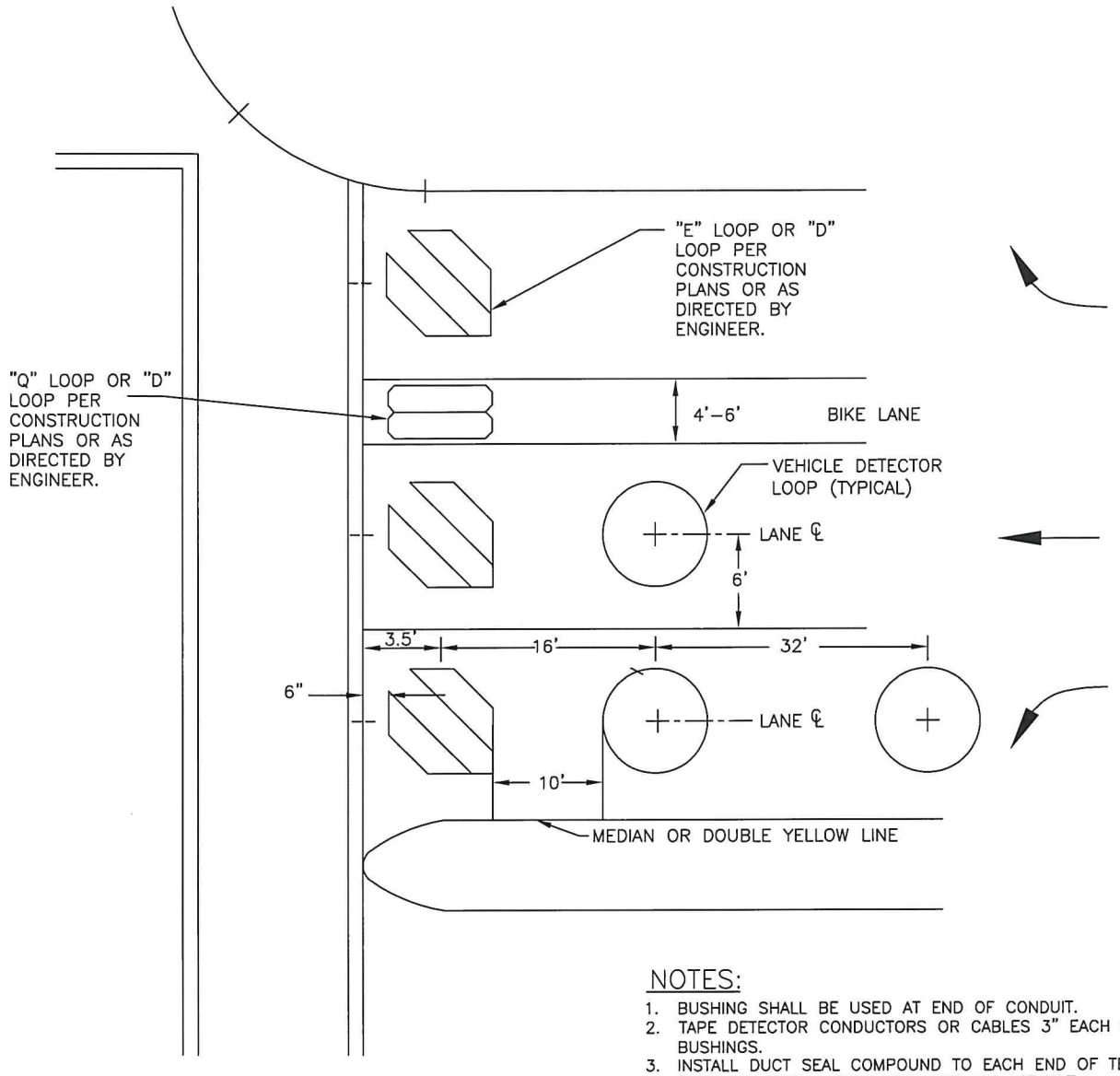
APPROVED BY:
CITY ENGINEER
DATE: 5/19/2020

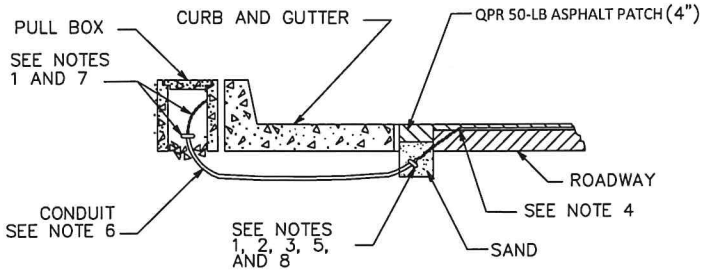
NO.	REVISED	BY	APPROVALS
	04–14–09	BGJ	CM
	01–18–11	BGJ	DRU
	11–07–19	CGV	PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1





CURB TERMINATION DETAIL

NOTES:

1. BUSHING SHALL BE USED AT END OF CONDUIT.
2. TAPE DETECTOR CONDUCTORS OR CABLES 3" EACH SIDE OF BUSHINGS.
3. INSTALL DUCT SEAL COMPOUND TO EACH END OF TERMINATION CONDUIT BEFORE INSTALLING HOT MIX ASPHALT.
4. ROUND ALL SHARP EDGES WHERE DETECTOR CONDUCTORS OR CABLES HAVE TO PASS.
5. END OF CONDUIT SHALL BE 3" BEYOND THE LIP OF GUTTER.
6.

CONDUIT SIZE	LOOP CONDUCTORS
1" C MINIMUM	1 TO 2 PAIRS
1 ½" C MINIMUM	3 TO 4 PAIRS
2 C MINIMUM	5 OR MORE PAIRS

7. SPLICE DETECTOR CONDUCTORS OR CABLES TO DETECTOR LEAD-IN-CABLE.
8. KEEP LOOP WIRE IN SAND AREA TO PROTECT FROM QPR 50-LB ASPHALT PATCH.

CITY OF CLOVIS

LOOP DETECTOR PLACEMENT

DWG NO. TS-2

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

DATE: 5/19/2020

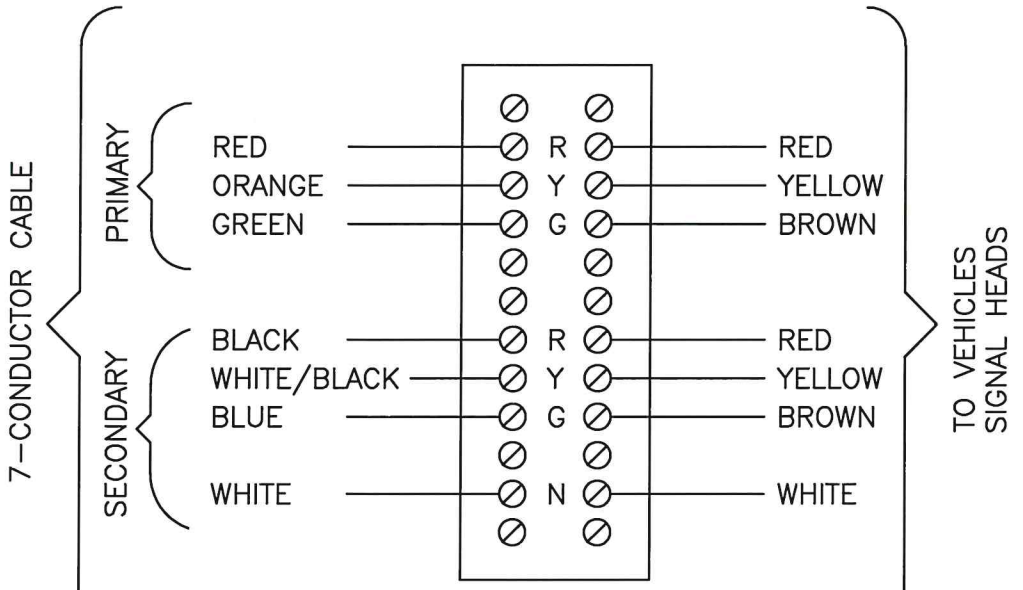
NO.	REVISED	BY
	04-14-09	BGJ
	01-18-11	BGJ
3	10-07-19	CGV

APPROVALS: CM, DRU, PUD

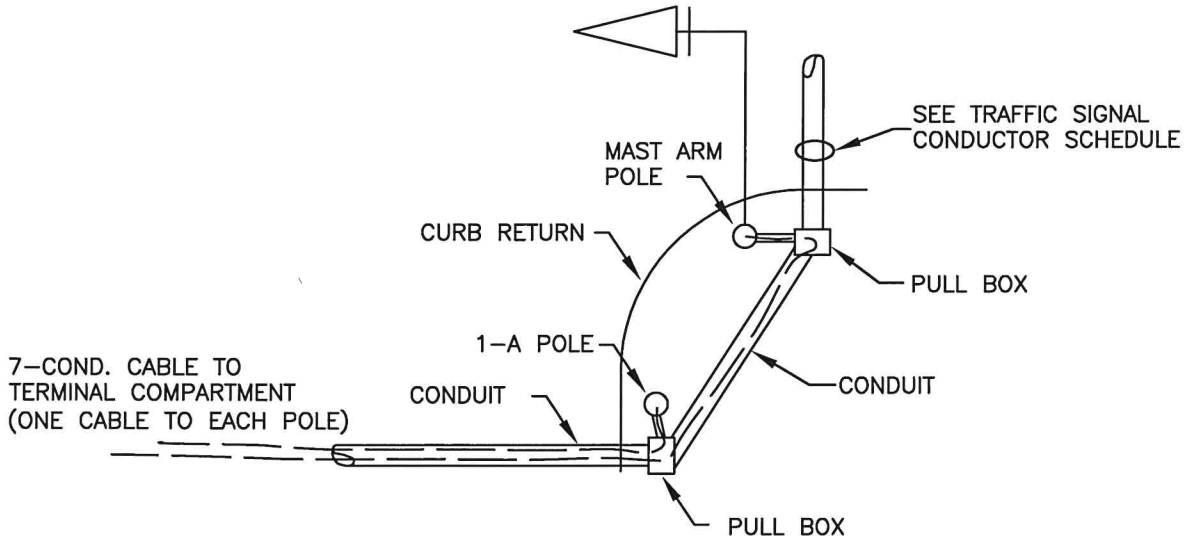
SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



VEHICLE TERMINAL COMPARTMENT



TYPICAL CORNER CONNECTIONS

NOTES:

1. INSTALL SINGLE CONDUCTOR COLOR CODED #14 THWN COPPER WIRE BETWEEN TERMINAL STRIP AND EACH SIGNAL ASSEMBLY AND CONNECT.
2. THE CABLES THAT COMPRISE A SIGNAL PHASE SHALL HAVE AN IDENTIFICATION BAND PLACED NEAR THE END OF TERMINATION POINTS AND IN EVERY PULL BOX.
   THE IDENTIFICATION BAND SHALL BE A 3/8" PLASTIC STRIP AND INSTALLED WITH NON-FERROUS PERMANENT FASTENER. ALL CABLES SHALL BE LABELED PER PHASING SHOWN ON PLANS.
3. ALL CRIMP STYLE LUGS AND THE ENDS OF STRANDED CONDUCTORS SHALL BE SOLDERED.

CITY OF CLOVIS

DWG NO. TS-4

VEHICLE SIGNAL TERMINAL LOCATION

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

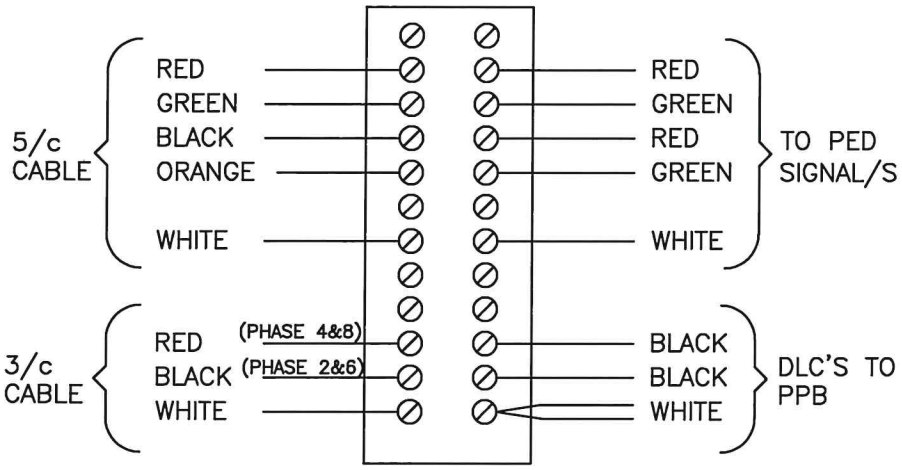
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
	04-15-09	BGJ	CM
	01-18-11	BGJ	DRU
2	02-12-19	CGV	PUD

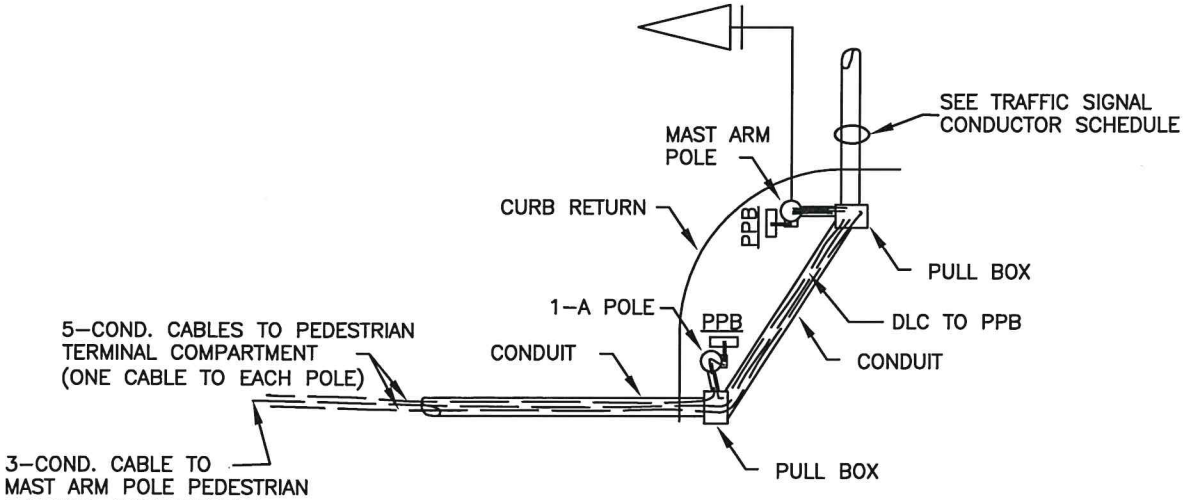
SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



TERMINAL STRIP



TYPICAL CORNER CONNECTIONS

NOTES:

1. INSTALL SINGLE CONDUCTOR COLOR CODED #14 THWN COPPER WIRE BETWEEN TERMINAL STRIP AND EACH SIGNAL ASSEMBLY AND CONNECT.
2. THE CABLES THAT COMPRISE A SIGNAL PHASE SHALL HAVE AN IDENTIFICATION BAND PLACED NEAR THE END OF TERMINATION POINTS AND IN EVERY PULL BOX. THE IDENTIFICATION BAND SHALL BE A 3/8" PLASTIC STRIP AND INSTALLED WITH NON-FERROUS PERMANENT FASTENER. ALL CABLES SHALL BE LABELED PER PHASING SHOWN ON PLANS.
3. ALL CRIMP STYLE LUGS AND THE ENDS OF STRANDED CONDUCTORS SHALL BE SOLDERED.

CITY OF CLOVIS

DWG NO. TS-4A

PEDESTRIAN SIGNAL TERMINAL LOCATIONS

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

DATE: 5/19/2020

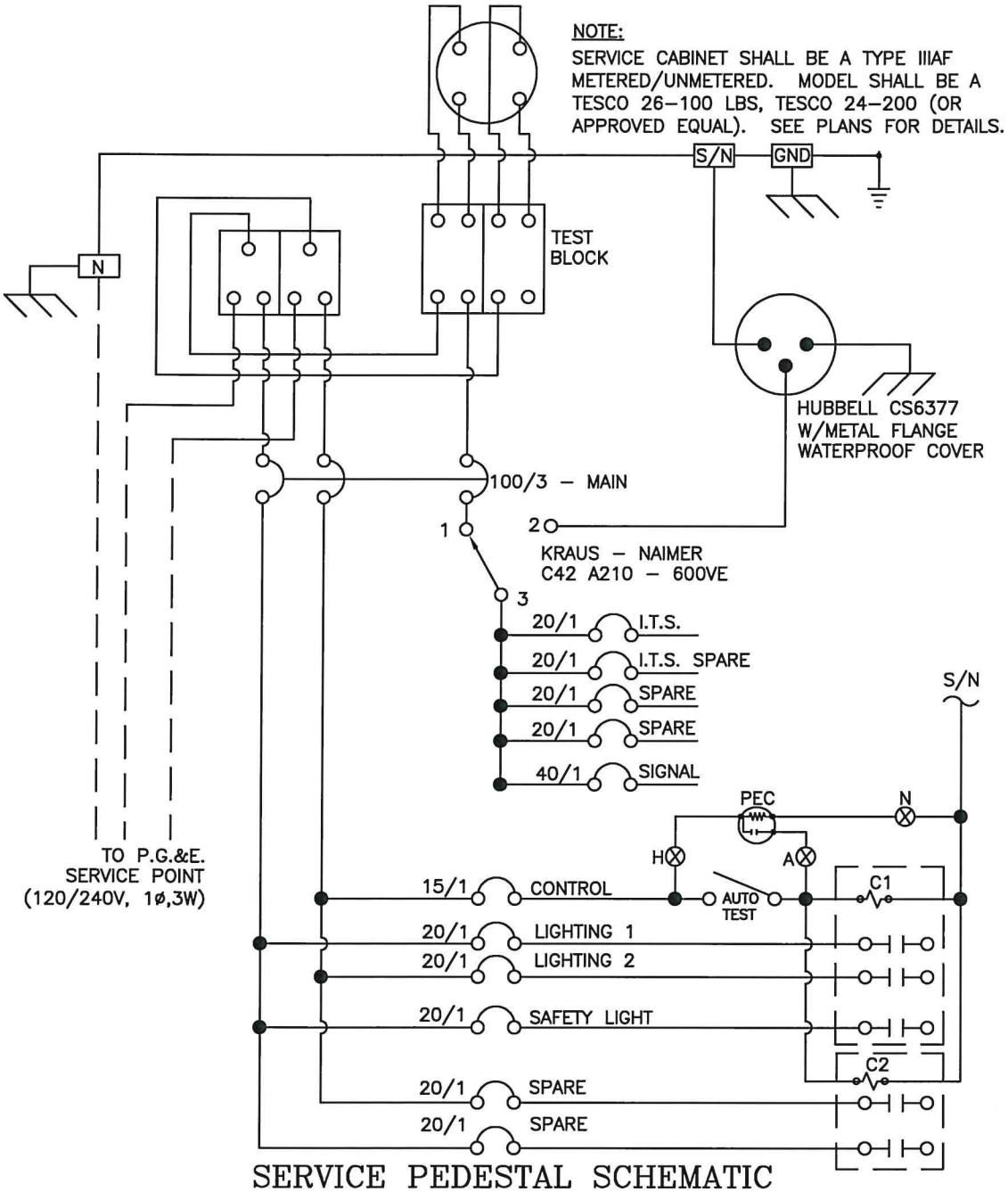
NO.	REVISED	BY
	04-15-09	BGJ
	01-18-11	BGJ
3	12-02-19	CGV

APPROVALS: CM, DRU, PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



SERVICE PEDESTAL SCHEMATIC

20A	20A	20A	20A	15A	20A	20A	20A	20A	20A	40A		100A	
SPARE	SPARE	I.T.S. SPARE	I.T.S.	CONTROL	LIGHTING 1	LIGHTING 2	SPARE	SPARE	SAFETY LIGHT	SIGNAL		MAIN	

SWITCH LOCATION

CITY OF CLOVIS

SERVICE PEDESTAL SCHEMATIC

DWG NO. TS-5A

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

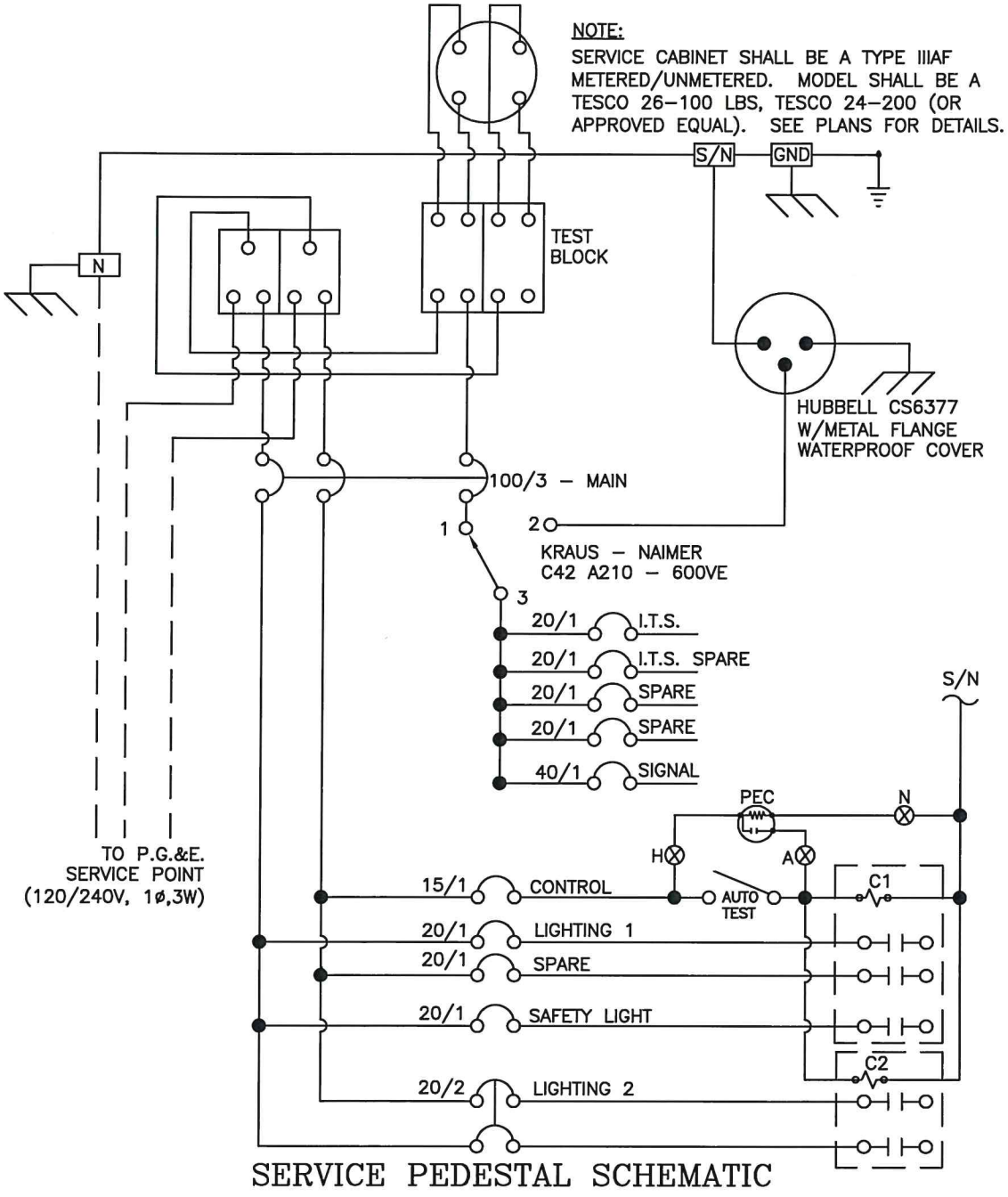
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
			CM
			DRU
			PUD

SCALE: NTS

DRAWN BY: CGV

SHEET 1 OF 1



SERVICE PEDESTAL SCHEMATIC

20A	20A	20A	20A	15A	20A	20A	20A	20A	40A		100A	
SPARE	SPARE	I.T.S. SPARE	I.T.S.	CONTROL	LIGHTING 1	SPARE	LIGHTING 2	SAFETY LIGHT	SIGNAL		MAIN	

SWITCH LOCATION

CITY OF CLOVIS

SERVICE PEDESTAL SCHEMATIC

DWG NO. TS-5B

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

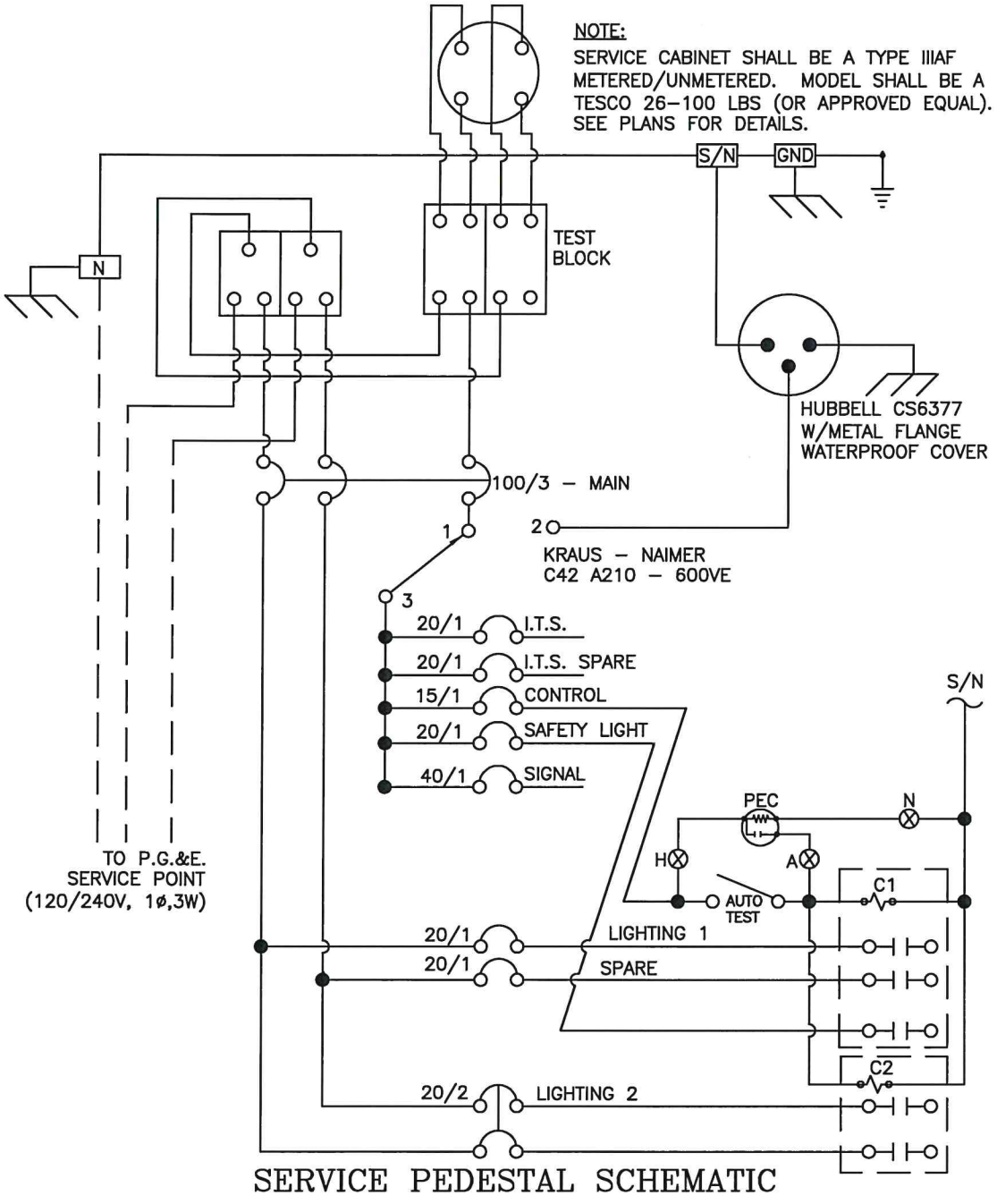
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
			CM
			DRU
			PUD

SCALE: NTS

DRAWN BY: CGV

SHEET 1 OF 1



SERVICE PEDESTAL SCHEMATIC

20A	20A	20A	15A	20A	20A	20A	40A		100A	
SAFETY LIGHT	I.T.S. SPARE	I.T.S.	CONTROL	LIGHTING 1	SPARE	LIGHTING 2	SIGNAL		MAIN	

SWITCH LOCATION

CITY OF CLOVIS

DWG NO. TS-5C

SERVICE PEDESTAL SCHEMATIC - METERED SAFETY LIGHT

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

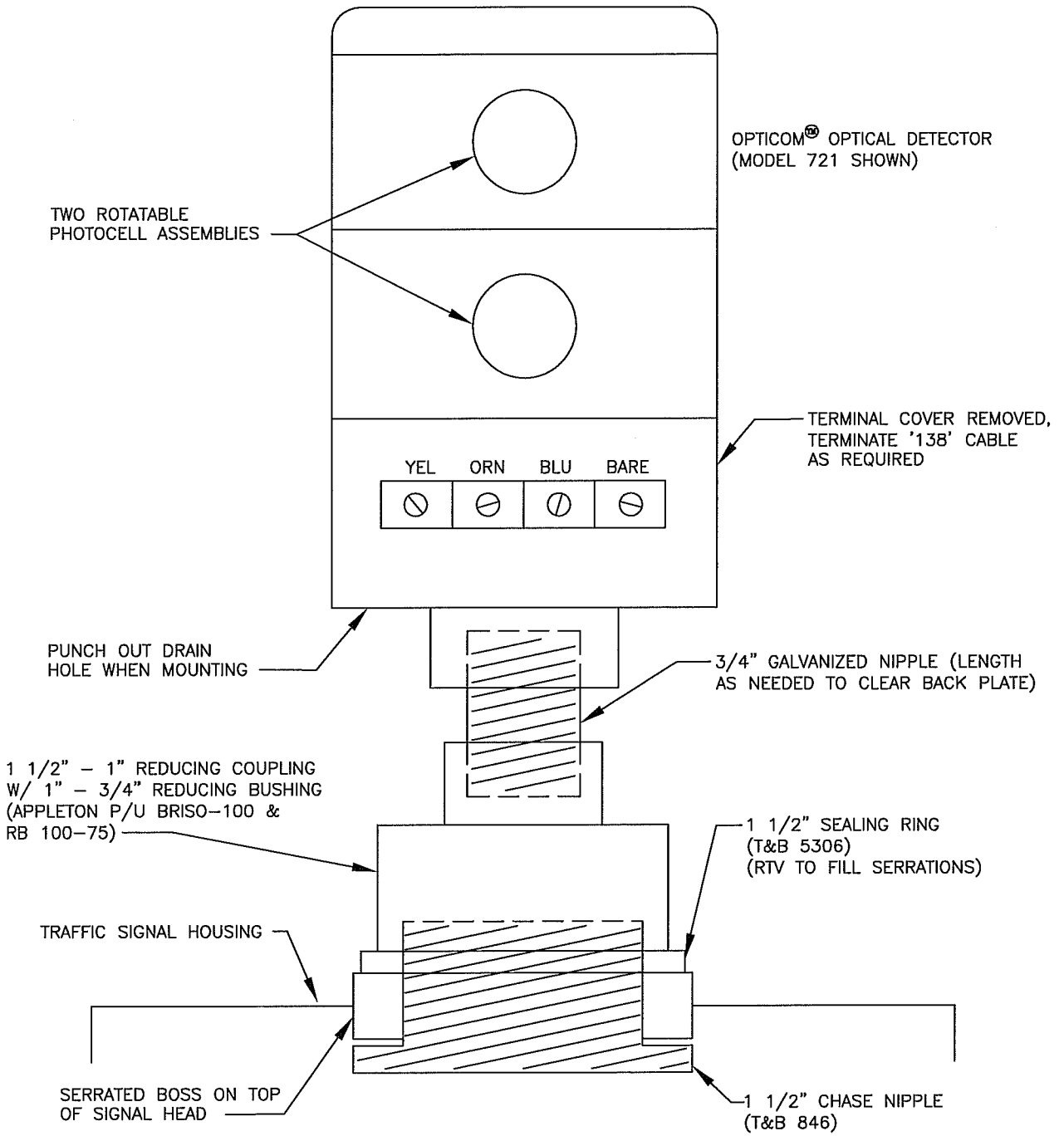
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
			CM
			DRU
			PUD PA

SCALE: NTS

DRAWN BY: CGV

SHEET 1 OF 1



EMERGENCY VEHICLE DETECTOR
MOUNTING ON TOP OF TRAFFIC SIGNAL UNIT

(SEE CALTRANS STANDARD DRAWING ES–4E AND
CITY STD. DRW. TS–6C FOR MAST ARM MOUNTINGS)

CITY OF CLOVIS

OPTICOM® DETECTOR ASSEMBLY

DWG NO. TS-6

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

DATE: 4/29/11

NO.	REVISED	BY
	04–15–09	BGJ
	01–18–11	BGJ

APPROVALS

CM

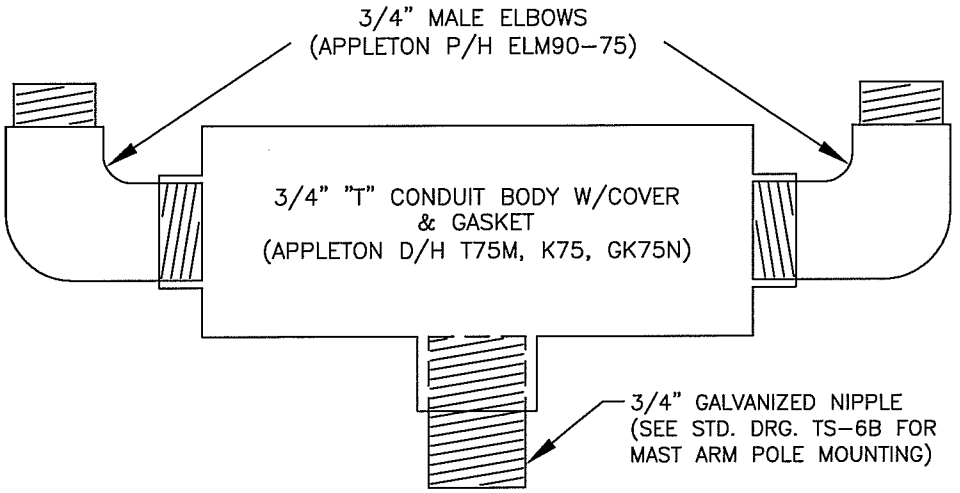
DRU

PUD

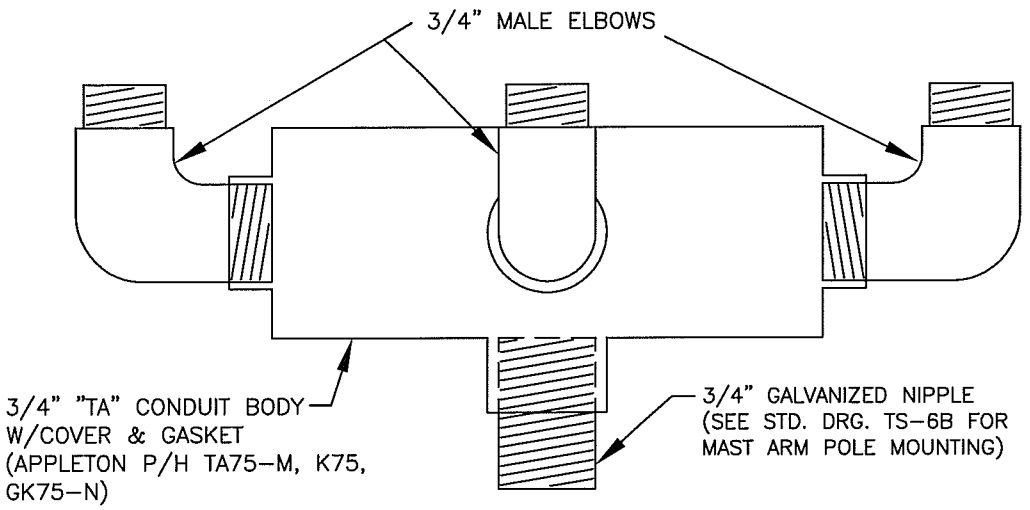
SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



DUAL MOUNT



TRIPLE MOUNT

CITY OF CLOVIS

DWG NO. TS-6A

OPTICOM® DUAL & TRIPLE MOUNTING FIXTURES

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

DATE: 4/29/11

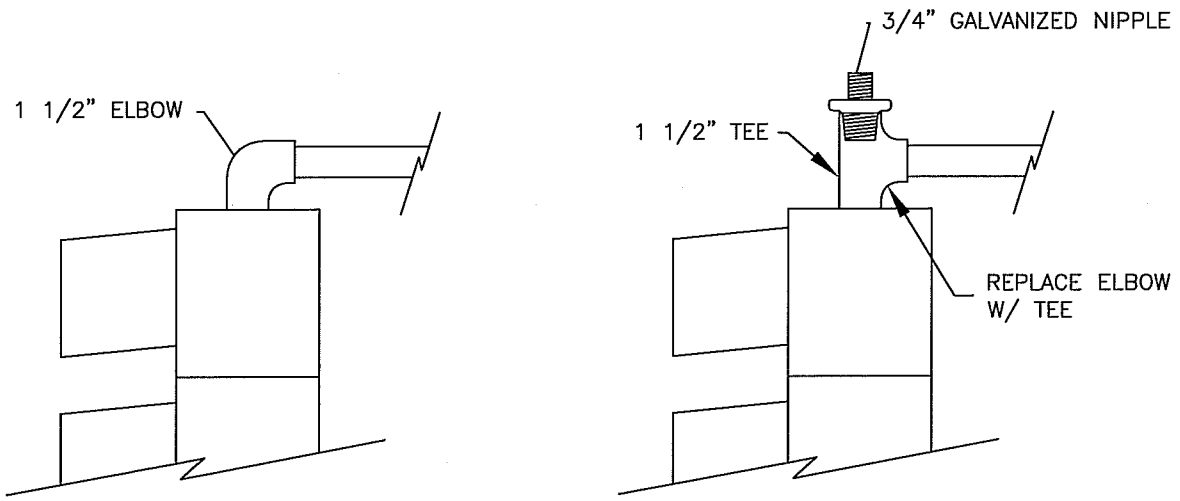
NO.	REVISED	BY
	04–15–09	BGJ
	01–18–11	BGJ
	02–16–11	BGJ

APPROVALS: CM, DRU, PUD

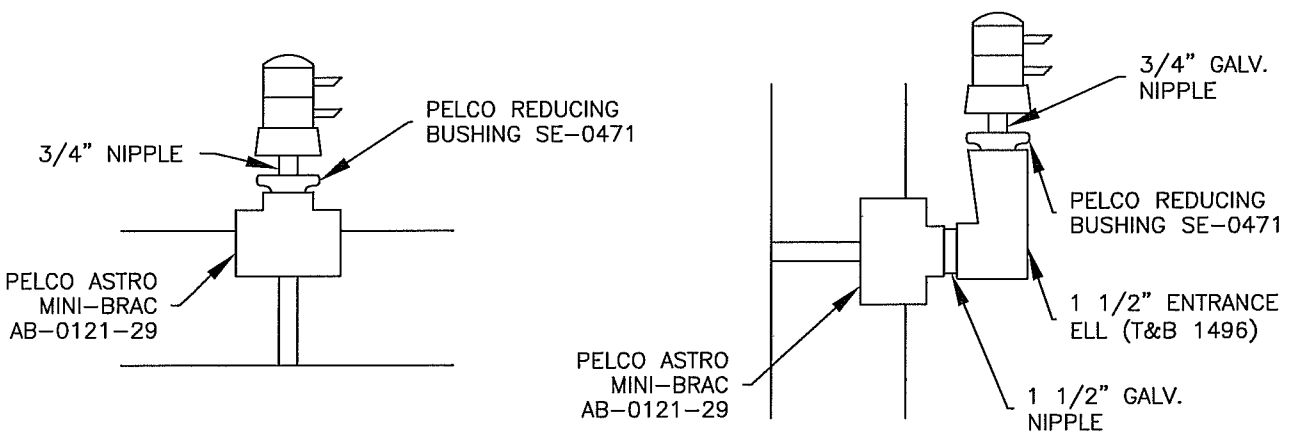
SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



FRAMEWORK MOUNTING



ARM/POLE MOUNTING

CITY OF CLOVIS

OPTICOM® MISC. MOUNTING FIXTURES

DWG NO. TS-6B

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

DATE: 4/29/11

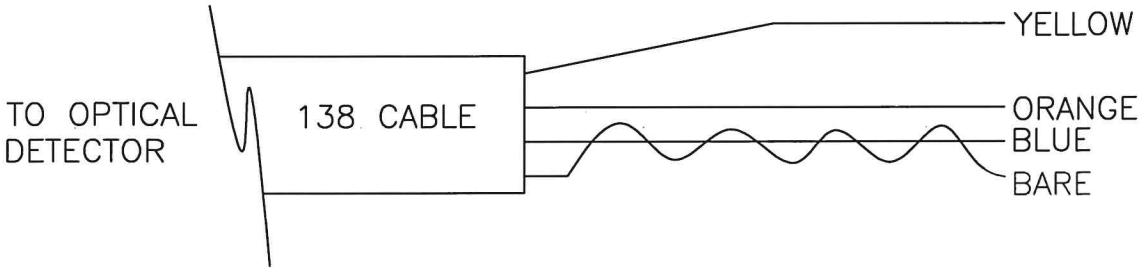
NO.	REVISED	BY
	04-16-09	BGJ
	01-18-11	BGJ

APPROVALS: CM, DRU, PUD

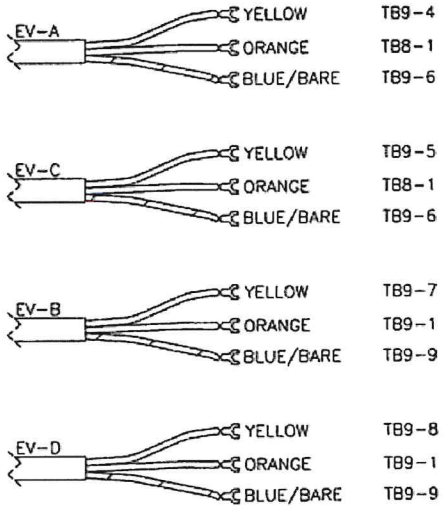
SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



YELLOW	DET OUT
ORANGE	24V
BLUE, BARE	GROUND



332L CABINET

NOTE:

IF DETECTOR IS INSTALLED AND CABLE CANNOT BE CONNECTED TO AN ACTIVE (POWER-ON) DISCRIMINATOR, ALL 4 LEADS SHOULD BE TIED TO EARTH GROUND TO PREVENT TRANSIENT DAMAGE TO DETECTOR.

CITY OF CLOVIS

OPTICOM® 138 CABLE

DWG NO. TS-6C

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

DATE: 6-15-2020

NO.	REVISED	BY	APPROVALS
	04-16-09	BGJ	CM
	01-18-11	BGJ	DRU
	02-12-20	CGV	PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1

FIG. "A": '138' CABLE TERMINATIONS

	PRIMARY DETECTORS			#1 AUX. DETECTOR			#2 AUX. DETECTOR		
	YEL	ORN	BLU	YEL	ORN	BLU	YEL	ORN	BLU
EVA	4	2	6	2	1	6	3	1	6
EVB	7	3	9	4	7	12	5	7	12
EVC	5	2	6	8	1	6	9	1	6
EVD	8	3	9	10	7	12	11	7	12
	TB 9			TB A					
	332 CABINET								

FIG "B": CONVENTIONAL PHASE ASSIGNMENTS

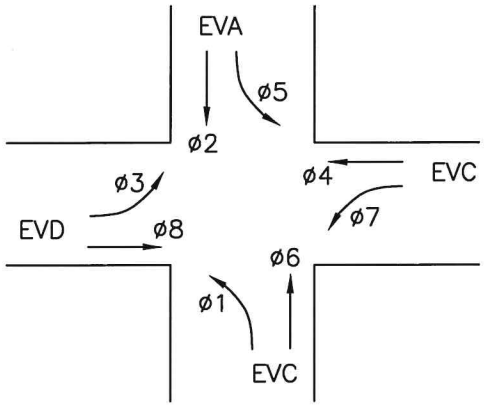
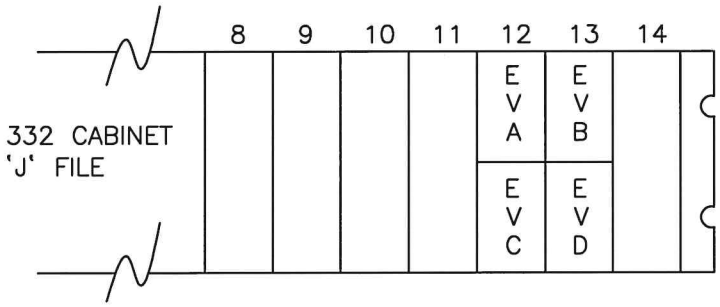


FIG. "C": CONVENTIONAL INPUT FILE ASSIGNMENTS



CITY OF CLOVIS

OPTICOM® DETECTOR ASSIGNMENTS

DWG NO. TS-6D

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

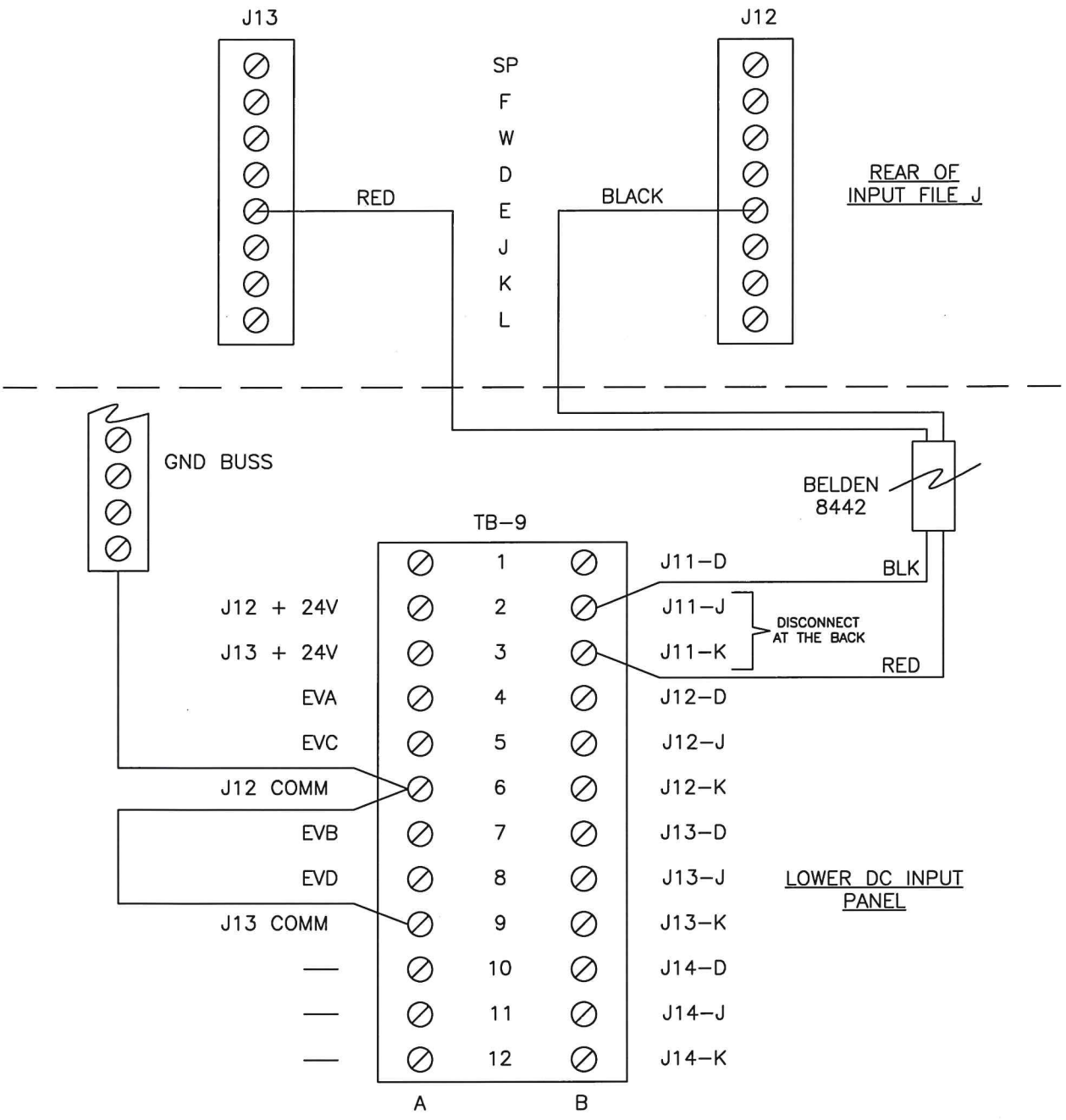
DATE: 6-15-2020

NO.	REVISED	BY	APPROVALS
	04-16-09	BGJ	CM
	01-18-11	BGJ	DRU
	02-12-20	CGV	PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



MODIFY EXISTING WIRING AS ABOVE

CITY OF CLOVIS

DWG NO. TS-6E

OPTICOM® WIRING MODIFICATIONS TERMINAL BLOCK CONTROLLER (332 CABINET)

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

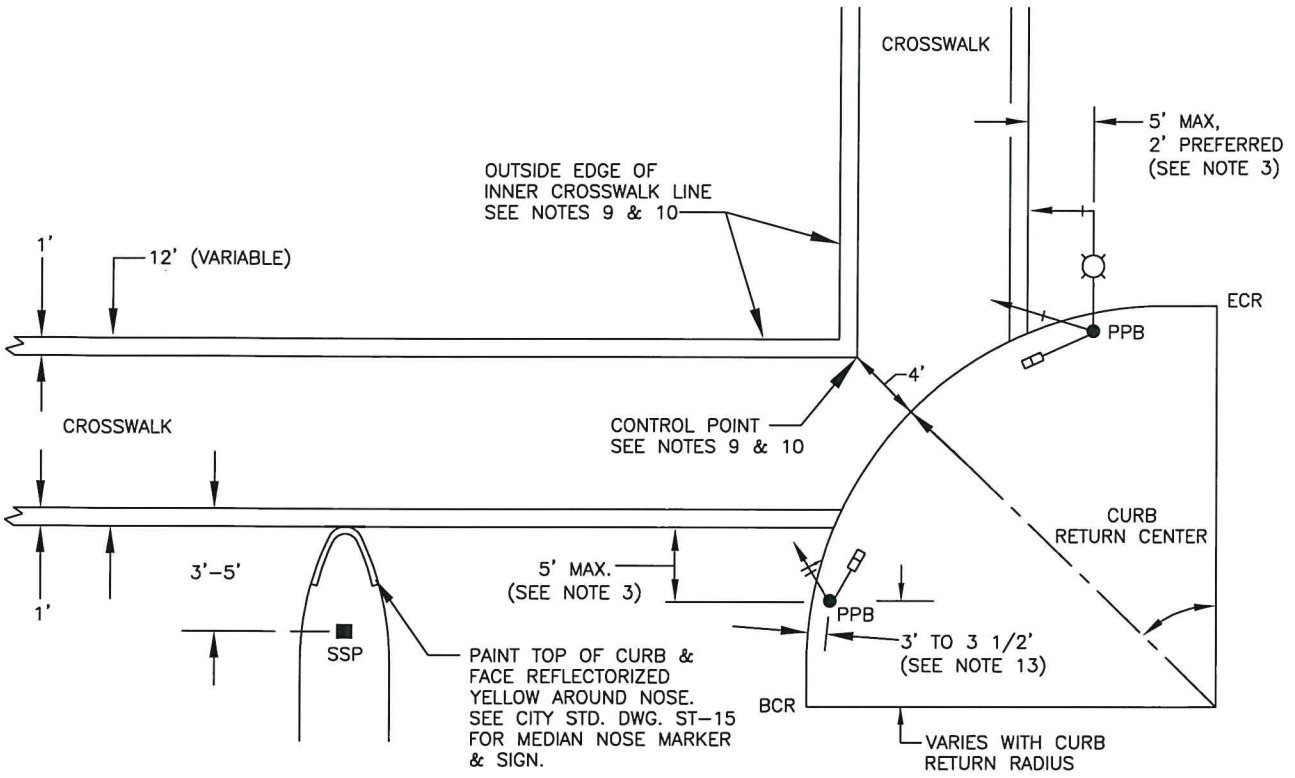
DATE: 6-15-2020

NO.	REVISED	BY	APPROVALS
	04-16-09	BGJ	CM
	01-18-11	BGJ	DRU
	02-12-20	CGV	PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



NOTES:

1. PEDESTRIAN PUSH BUTTONS ON SEPARATE POSTS WHERE REQUIRED. PPB SHALL BE MOUNTED ON "PEDESTRIAN PUSH BUTTON POST" PER CALTRANS STD. DWG. ES-7A. DO NOT USE "COMBINED" POST UNLESS SPECIFIED.
2. SEE CITY STD. DWG. ST-15 FOR MEDIAN NOSE MARKER & SIGN FOR DETAILS.
3. SIGNAL STANDARD SHALL BE USED FOR PEDESTRIAN PUSH BUTTONS WITHIN 5 FEET FROM THE CROSSWALK AREA. IF STANDARD IS MORE THAN 5 FEET FROM A CROSSWALK, THE ENGINEER MAY REQUIRE A PPB POST BE INSTALLED AS SHOWN ON PLANS.
4. PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON CROSSWALK SIDE OF STANDARD OR POST.
5. CROSSWALK AREA OF THE SIDEWALK SHOULD BE KEPT CLEAR OF POLES.
6. WHERE CURB RETURN RADIUS EXCEEDS 10 FEET, SIGNAL FACES SHOULD BE "SPLIT" OR LOCATED ON SEPARATE STANDARDS SO THAT GOOD VISIBILITY OF RIGHT AND FAR LEFT SIGNALS ARE PROVIDED FOR ALL APPROACHES.
7. STRIPING MAY VARY WHERE WHEELCHAIR RAMPS ARE PROVIDED.
8. MAINTAIN A MINIMUM CLEAR SIDEWALK WIDTH OF 48 INCHES FOR WHEELCHAIRS.
9. CURB RETURNS WITH A RADIUS OF LESS THAN 15 FEET: LINE UP OUTSIDE EDGE OF INNER CROSSWALK LINE WITH FACE OF CURB, SEE DRAWING.
10. CURB RETURNS WITH A RADIUS OF 15 FEET OR MORE: LOCATE CENTER OF CURB RETURN. MEASURE 4 FEET TOWARDS CENTER OF INTERSECTION TO LOCATE CONTROL POINT. LINE UP THE CROSSWALK WITH THE CONTROL POINT AS INDICATED ABOVE.
11. SEE MEDIAN ISLAND TURNOUT STANDARDS FOR MEDIAN CONCRETE CAP.
12. REFER TO CITY STD. DWG. ST-11 FOR CONSTRUCTION OF CURB RAMP.
13. WHERE 100 MPH WINDLOAD POLES ARE INSTALLED, USE 3 1/2'.

LEGEND:

←o	VEHICLE SIGNAL HEAD
←+o	VEHICLE SIGNAL HEAD WITH BACKPLATE
←+o	VEHICLE SIGNAL HEAD WITH ARROWS
□o	PEDESTRIAN SIGNAL HEAD
☼o	LUMINAIRE
PPB	PEDESTRIAN PUSH BUTTON
●	PPB ON POST
■	SSP STREET SIGN POST

CITY OF CLOVIS

TRAFFIC SIGNAL INSTALLATION

DWG NO. TS-7

REF.: STD. SPECIFICATIONS

APPROVED BY:

CITY ENGINEER

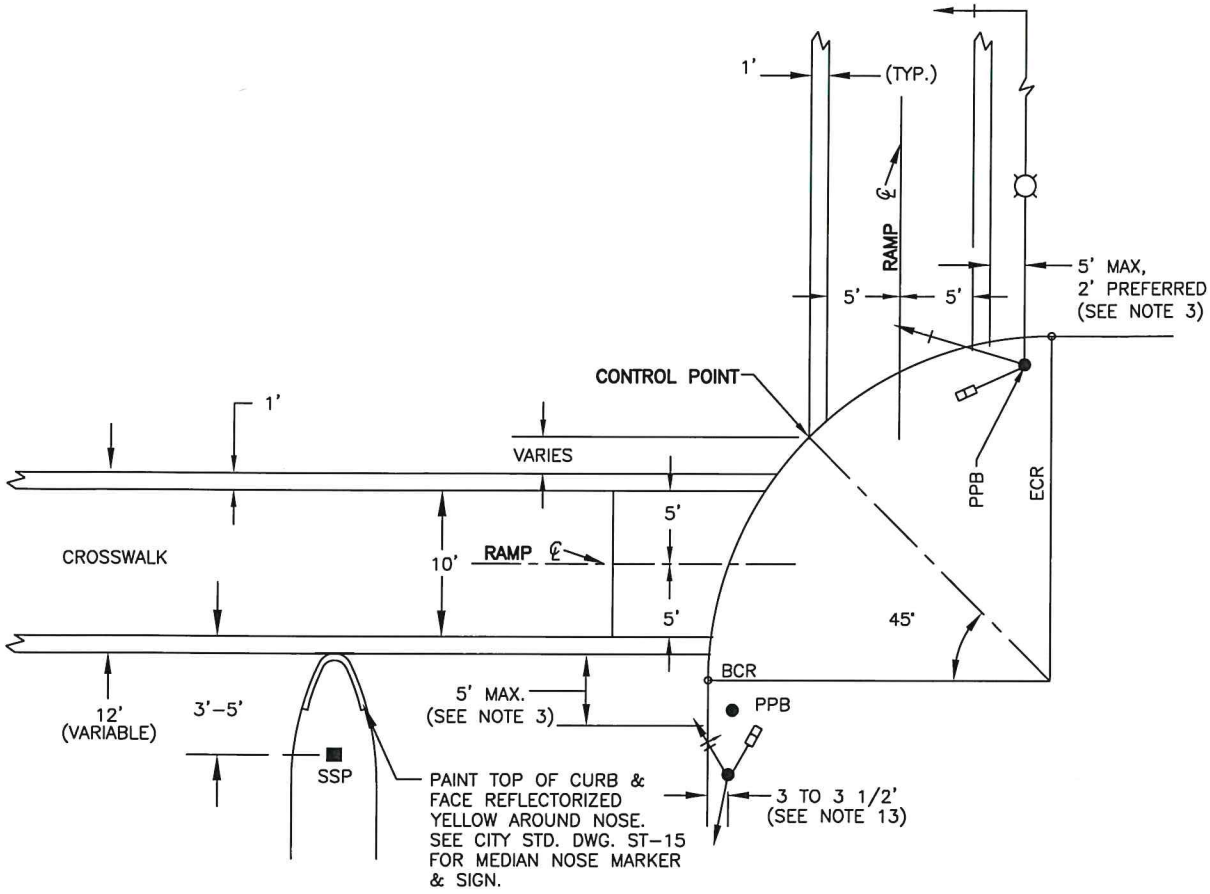
DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
	12-29-11	BGJ	CM
	12-02-19	CGV	DRU
			PUD

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1



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⟵+○	VEHICLE SIGNAL HEAD WITH BACKPLATE
⟵+○	VEHICLE SIGNAL HEAD WITH ARROWS
□○	PEDESTRIAN SIGNAL HEAD
○	LUMINAIRE
PPB	PEDESTRIAN PUSH BUTTON
●	PPB ON POST
■	SSP STREET SIGN POST

CITY OF CLOVIS

TRAFFIC SIGNAL INSTALLATION

DUAL RAMP DESIGN

DWG NO. TS-7A

REF.: STANDARD SPEC. SECTION 86

APPROVED BY:

CITY ENGINEER

DATE: 5/19/2020

NO.	REVISED	BY	APPROVALS
	04–20–09	BGJ	CM
	01–18–11	BGJ	DRU
	02–16–11	BGJ	PUD
	04–12–19	CGV	

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1