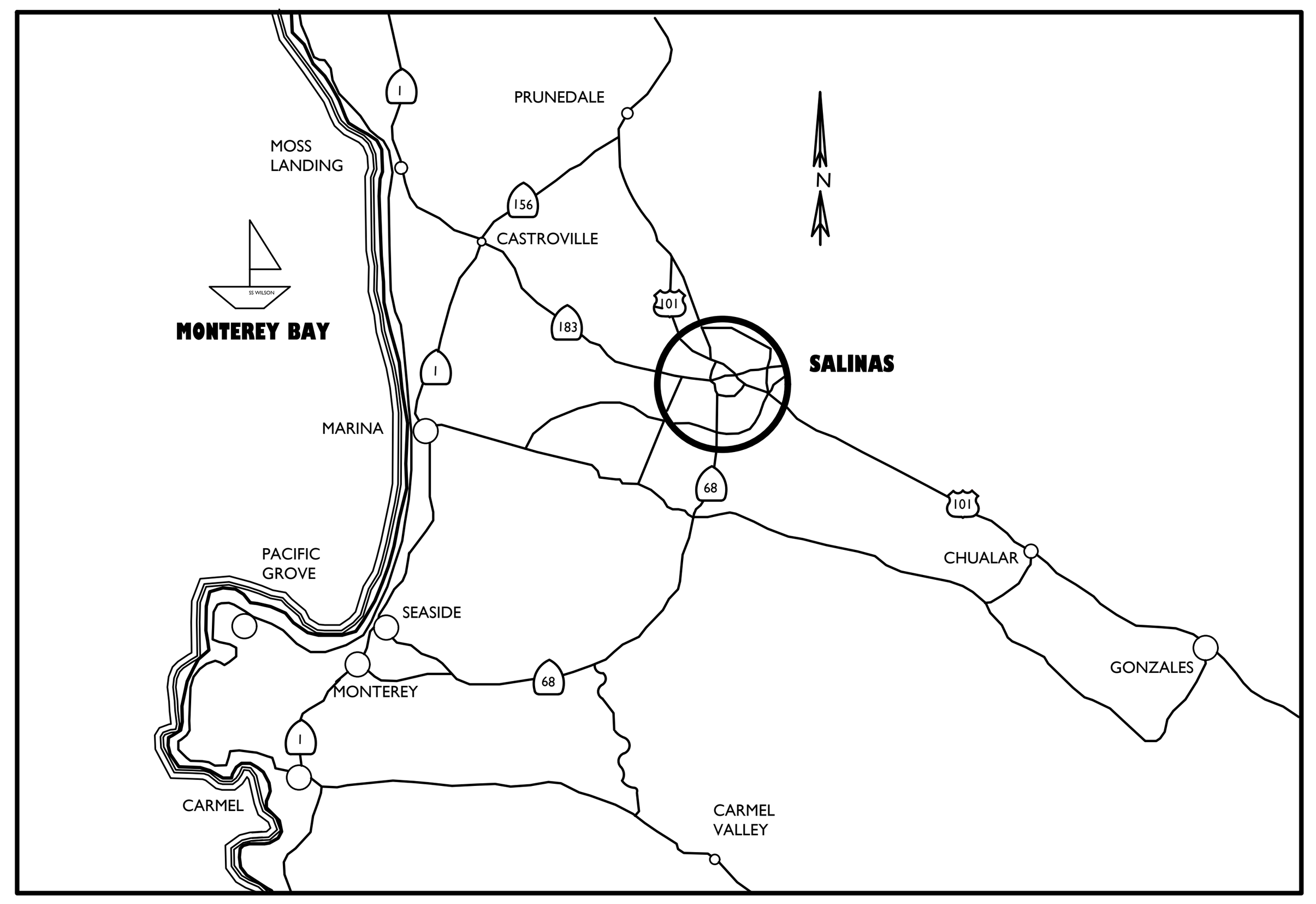
NORTH MAIN STREET TRAFFIC SIGNAL IMPROVEMENTS PROJECT NO. 9262
FEDERAL AID PROJECT NO. HSIPL 5045(033)

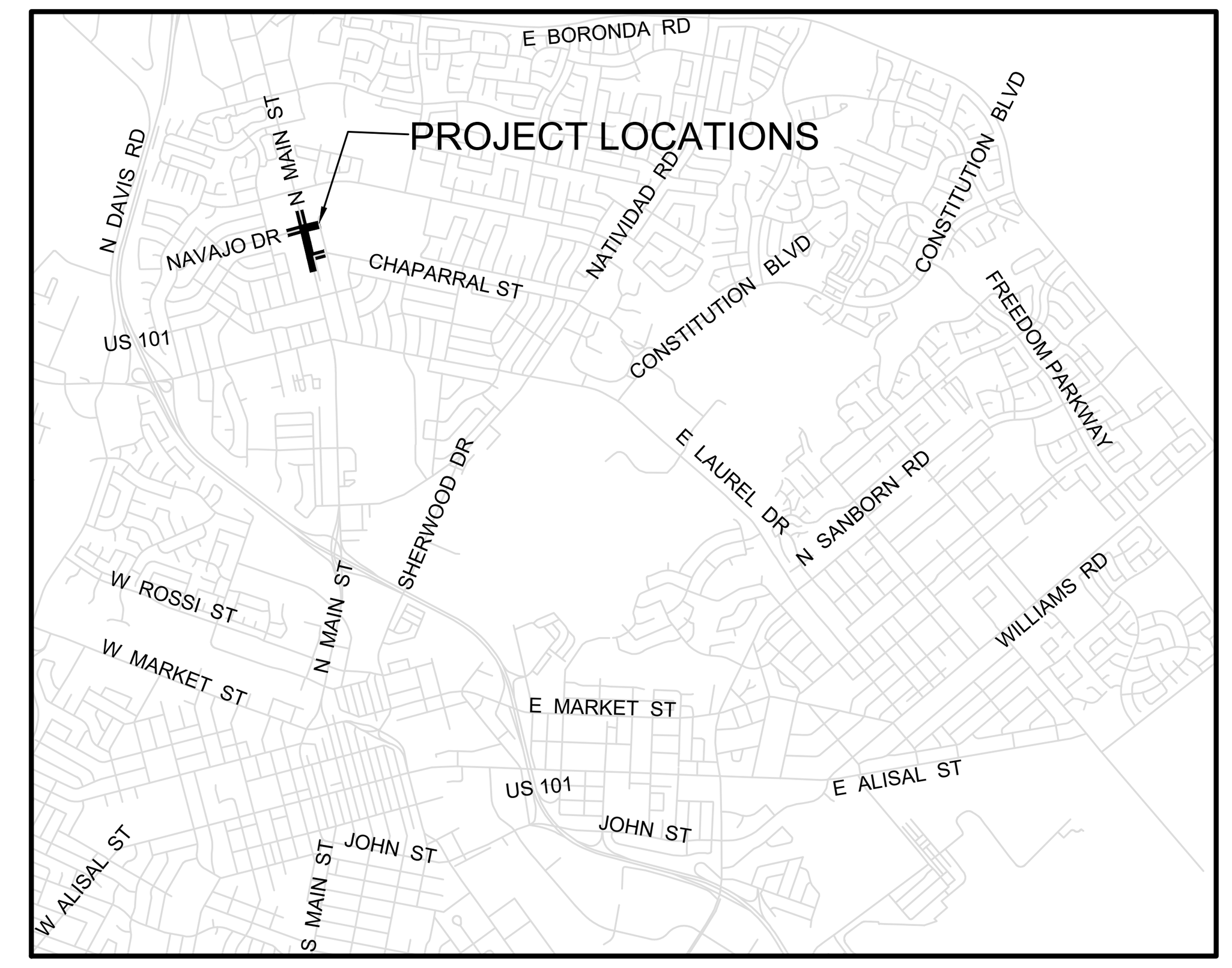
ABBREVIATIONS

A.B.	AGGREGATE BASE	P.B.	PULLBOX	<N>	NEW
A.C.	ASPHALT CONCRETE	P.B.M.	PULLBOX MARKER	R.C.P.	REINFORCED CONCRETE PIPE
ADA	AMERICAN DISABILITIES ACT	P.C.C.	PORTLAND CEMENT CONCRETE	RES.	RESIDENTIAL
APPR.	APPROACH	PEU	PHOTO ELECTRIC UNIT	RMV.	REMOVE
A.S.B.	AGGREGATE SUBBASE	PG&E	PACIFIC GAS AND ELECTRIC CO.	R/W	RIGHT-OF-WAY
B.C.	BEGIN CURVE (HORIZONTAL)	PG&E M.H.	PACIFIC GAS AND ELECTRIC CO. MANHOLE	S.B.C.	SOUTHWESTERN BELL COMPANY
B.O.W.	BACK OF WALK	P.I.	POINT OF INTERSECTION	S.D.	STORM DRAIN
B.V.C.	BEGIN VERTICAL CURVE	ℙ	PROPERTY LINE	S.D.M.H.	STORM DRAIN MANHOLE
B/L	BASE LINE	P.P.B.	PEDESTRIAN PUSH BUTTON	S.F.	SQUARE FEET
C.B.	CATCH BASIN	P.T.C.C.	POINT OF COMPOUND CURVE	SIG.	SIGNAL
C & G	CURB AND GUTTER	P.R.C.	POINT OF REVERSE CURVE	SN	SERVICE NEUTRAL
C.L.	CURB LINE	P.V.C.	POLYVINYLCHLORIDE	S.P.	SIGN POST
℄	CENTER LINE	PVMT.	PAVEMENT	SS	SANITARY SEWER
C.M.P.	CORRUGATED METAL PIPE	P.T.	POINT OF TANGENT	S.S.M.H.	SANITARY SEWER MANHOLE
COMM.	COMMERCIAL	P.P.	POWER POLE	ST.	STREET
CONC.	CONCRETE	QTY.	QUANTITY	STD.	STANDARD
CONST.	CONSTRUCTION	R	RADIUS	STA.	STATION
CATV	CABLE T.V.	G.B.	GRADE BREAK	SWK.	SIDEWALK
CTB	CEMENT TREATED BASE	G	GAS	S.L.	STREET LIGHT
C.Y.	CUBIC YARD	G.V.	GAS VALVE	S.Y.	SQUARE YARD
DWY.	DRIVEWAY	HORIZ.	HORIZONTAL	T	TANGENT LENGTH, TELEPHONE OR TONS
Δ	CURVE ANGLE	I.D.	INSIDE DIAMETER	T.C.	TOP OF CURB
E.C.	END CURVE (HORIZONTAL)	INST.	INSTALL	T.W.	TREE WELL
E.C.R.	END CURB RETURN	INV.	INVERT	TYP.	TYPICAL
E	ELECTRICAL	J.P.	JOINT POLE	T.S.	TRAFFIC SIGNAL
ELEV.	ELEVATION	J.U.T.	JOINT UTILITY TRENCH	TEL M.H.	SBC MANHOLE
E.P.	EDGE OF PAVEMENT	L	ARC LENGTH	U.T.	UTILITY TRENCH
EVC.	END VERTICAL CURVE	LCB	LEAN CONCRETE BASE	V.C.	VERTICAL CURVE
<E>	EXISTING	L.F.	LINEAR FEET	V.C.P.	VITRIFIED CLAY PIPE
F.H.	FIRE HYDRANT	L.S.	LUMP SUM	V.P.I.	VERTICAL POINT OF INTERSECTION
F.I.	FLUSHING INLET	M.H.	MANHOLE	W	WATER
F.L.	FLOW LINE	MON.	MONUMENT	WM	WATER METER
F.O.C.	FACE OF CURB	N.I.C.	NOT IN CONTRACT	WV	WATER VALVE
GALV.	GALVANIZED	NO	NORMALLY OPEN	XING	CROSSING
O.D.	OUTSIDE DIAMETER	N.T.S.	NOT TO SCALE	XSEC	CROSS SECTION
CA MUTCD	CALIFORNIA MANUAL ON TRAFFIC CONTROL DEVICES			1P	SINGLE POLE

VICINITY MAP (N.T.S.)



LOCATION MAP (N.T.S.)



LEGEND

EXISTING / NEW

- RIGHT-OF-WAY LINE
- CURB AND GUTTER
- SIDEWALK
- ASPHALT CONCRETE PATCH AND REPAIR
- DRIVEWAY
- E — ELECTRICAL
- G — GAS
- TEL — TELEPHONE
- W — WATER
- TV — CABLE
- SD — STORM DRAIN LINE
- SS — SANITARY SEWER LINE
- STRIPING
- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- FIRE HYDRANT
- CATCHBASIN
- STREET SIGN AND POST
- WATER METER
- STREET LIGHT
- JOINT POLE
- TRAFFIC SIGNAL POLE
- SPRINKLER HEAD
- WATER VALVE
- GAS VALVE
- ELECTRICAL PULLBOX
- TRAFFIC SIGNAL PULLBOX (NEW: TS)
- PEDESTRIAN ACCESS RAMP
- SURFACE MOUNTED TRUNCATED DOMES
- SBC MANHOLE
- TRAFFIC CONTROLLER
- SERVICE PEDESTAL
- I.I.S.N.S.
- MAST ARM MOUNTED SIGN
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL POLE WITH LUMINARE
- MAST ARM MOUNTED SIGNAL HEAD (LED) WITH BACKPLATE
- VEHICLE SIGNAL HEAD (LED) WITH BACKPLATE
- VEHICLE SIGNAL HEAD WITH GREEN ARROW (LED) WITH BACKPLATE
- PEDESTRIAN SIGNAL HEAD (LED) COUNTDOWNS (NEW: C)
- VIDEO DETECTION (NEW: V)
- VIDEO DETECTOR LOOP (NEW: V)
- TRAFFIC SIGNAL CONDUIT
- OPTICOM
- Ø2 — SIGNAL PHASE — Ø2
- Ø2P — PEDESTRIAN SIGNAL PHASE — Ø2P
- DH — TYPE "A" DETECTOR HANDHOLE — DH
- 8 — CONDUIT LEGEND. REFER TO "CONDUIT AND CONDUCTOR SCHEDULE" — 8
- ADVANCE DETECTOR LOOP — Ø2 ADV

GENERAL NOTES

1. THE WORK IN GENERAL SHALL INCLUDE FURNISHING OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS REQUIRED FOR CONSTRUCTION IN ACCORDANCE WITH THE PLANS AND ATTACHED SPECIFICATIONS. THE LIMITS OF WORK SHALL BE ON NORTH MAIN STREET BETWEEN NAVAJO DRIVE AND CHAPARRAL STREET. SCOPE OF WORK IS FULLY DESCRIBED AS FOLLOWS:

   IN GENERAL THE WORK SHALL INCLUDE, BUT IS NOT LIMITED TO REMOVAL AND CONSTRUCTION OF CONCRETE MEDIAN ISLAND, TYPE "A" CURB; INSTALLATION OF A COMPLETE TRAFFIC SIGNAL; INSTALLATION TRAFFIC ADAPTIVE SYSTEM; AND THE INSTALLATION OF MINOR STRIPING.

2. EXCEPT AS OTHERWISE SPECIFIED, ALL WORK AND MATERIALS SHALL CONFORM TO AND BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF **THE CITY OF SALINAS, STANDARD SPECIFICATIONS, DESIGN STANDARDS, STANDARD PLANS (2008 EDITION)**, **STORMWATER DEVELOPMENT STANDARDS, AND CITY NPDES PERMITS,** IN CONJUNCTION WITH **CAMUTCD (LATEST EDITION), AND STATE STANDARD PLANS (LATEST EDITION**. IN CASE OF CONFLICT BETWEEN SAID DOCUMENTS, THE MOST STRINGENT REQUIREMENT SHALL APPLY AS DETERMINED BY THE CITY ENGINEER.

3. THE EXISTING FACILITIES INDICATED ON THESE PLANS ARE DESIGNATED AS CLOSELY AS POSSIBLE TO REPRESENT EXISTING CONDITIONS. HOWEVER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE EXISTENCE AND LOCATION OF ALL UNDERGROUND AND OVERHEAD FACILITIES AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND OR OVERHEAD FACILITIES DAMAGED BY HIS/HER OPERATIONS. THE CONTRACTOR SHALL CONTACT U.S.A. (UNDERGROUND SERVICE ALERT, TELEPHONE NUMBER 811) A MINIMUM OF 48 HOURS IN ADVANCE BEFORE PERFORMING ANY TRENCHING AND/OR EXCAVATION WORK.

4. LIMITS FOR THE REMOVAL AND RECONSTRUCTION OF MISCELLANEOUS CONCRETE FACILITIES, INCLUDING PED RAMPS, SHALL BE MARKED IN THE FIELD BY THE CITY ENGINEER PRIOR TO THE BEGINNING OF CONSTRUCTION.

5. ANY EXISTING RAISED PAVEMENT MARKERS, LEGEND, AND/OR STRIPING THAT IS DAMAGED AND/OR REMOVED DURING TRENCHING AND/OR EXCAVATION SHALL BE REPLACED BY THE CONTRACTOR PER THE PLANS AND SPECIFICATIONS. ALL REPLACED LEGENDS AND STRIPING SHALL BE THERMOPLASTIC AS SPECIFIED IN THE SPECIFICATIONS.

6. CONTRACTOR SHALL RE-INSTALL RED ZONES, THAT ARE IMPACTED/REMOVED BY WORK ON THIS PROJECT STATED IN THE SPECIFICATIONS, AND AS SHOWN ON THE PLANS.GREEN ZONES, YELLOW ZONES, WHITE ZONES, AND/OR BLUE ZONES THAT ARE IMPACTED/REMOVED BY WORK ON THIS PROJECT SHALL BE VERIFIED BY THE CITY ENGINEER PRIOR TO THE REINSTALLATION.

7. IN THE EVENT OF ANY CONFLICT OF INFORMATION SHOWN ON THE PLANS, THESE SPECIFICATIONS, ANY CONFLICT BETWEEN THE PLAN AND THE INTENT FOR A CONSISTENT AND FUNCTIONAL FACILITY OR IN THE FIELD THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER IN WRITING, UPON WHICH TIME THE CITY ENGINEER SHALL RESOLVE THE CONFLICT BY THE ISSUANCE OF A WRITTEN CHANGE ORDER BY REVISING THE PLAN, SPECIFICATIONS AND/OR BOTH. THE CONTRACTOR SHALL BEAR FULL COST AND RESPONSIBILITY FOR WORK AFFECTED BY SUCH UNRESOLVED CONFLICTS AND PERFORMED BY THE CONTRACTOR PRIOR TO THE RESOLUTION BY THE CITY ENGINEER.

8. THE CONTRACTOR SHALL VERIFY ELEVATIONS OF EXISTING FACILITIES TO BE JOINED AND/OR MATCHED PRIOR TO BEGINNING OF WORK

9. THE CONTRACTOR SHALL EXERCISE ALL NECESSARY CAUTION TO AVOID DAMAGE TO ANY EXISTING TREES, LANDSCAPE, UTILITIES AND/OR SURFACE IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, AND SHALL BEAR FULL RESPONSIBILITY FOR ANY DAMAGE THERETO.

10. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT FINISHED AREAS OF THE PROJECT ARE PROTECTED FROM ANY DAMAGE WHICH MAY RESULT FROM ADJACENT AREAS STILL UNDER CONSTRUCTION.

11. ALL WORK TO BE SCHEDULED AND COORDINATED BY THE CONTRACTOR WITH THE CONSTRUCTION ACTIVITIES OF THE UTILITY COMPANIES AND/OR ANY OTHER CONTRACTOR(S) WORKING IN THE AREA.

12. THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING THE SAFETY OF PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY AND THE CITY ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR THE CITY ENGINEER.

13. THE SIDEWALK SCHEDULE REFLECTS THE CITY'S RIGHT-OF-WAY, WHICH IS THE DISTANCE FROM THE FACE OF CURB TO THE PROPERTY LINE. HOWEVER, EXISTING CURBS SHOULD NOT BE USED TO LOCATE PROPERTY LINES SINCE THEY ARE NOT LOCATED EXACTLY ON LINE. THE CITY OF SALINAS IS NOT, EXPRESSLY OR BY IMPLICATION, RESPONSIBLE FOR ACCURACY OF THE SIDEWALK SCHEDULE, FOR INFORMATION ONLY. THE SIDEWALK SCHEDULE BOOK IS AVAILABLE FOR A FEE FROM THE CITY ENGINEER.

14. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTAL FOR THE PROJECT EXCEPT AS SHOWN N.I.C., BY OTHERS (NOT IN CONTRACT OR BY OTHERS) OR CITY FURNISHED MATERIAL.

15. CONTRACTOR SHALL REMOVE ALL CONTAMINATED WATER FROM SAW CUTTING PAVEMENT, AND WET SANBLASTING CONTAMINATED WATER SHALL BE REMOVED AND DISPOSED OF BY AN ENVIRONMENTALLY APPROVED METHOD, AND AS APPROVED BY THE CITY ENGINEER.

16. THE REMOVAL, RELOCATION, AND ADJUSTING TO FINISHED GRADE OF EXISTING WATER VALVE COVER, GAS VALVE COVER, SBC MANHOLE, AND/OR PGE MANHOLE SHALL BE DONE BY THE RESPECTED UTILITIES (N.I.C., BY OTHERS) AND SHALL NOT BE PART OF THIS CONTRACT.

17. THE CONTRACTOR SHALL ADJUST SANITARY SEWER AND STORM DRAIN MANHOLES, FLUSHING INLETS, AND CITY MONUMENTS AND FRAMES TO NEW FINISHED GRADE

18. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SLURRY SEALED AND RECONSTRUCTION AREAS OF THIS PROJECT ARE PROTECTED AT ALL TIMES UNTIL CURE TIME IS COMPLETED AND STREET AND/OR SIDEWALK IS OPENED.

19. THE CONTRACTOR SHALL VERIFY WITH THE CITY ENGINEER THE PRECISE LOCATIONS OF ALL TRAFFIC SIGNAL EQUIPMENT PRIOR TO INSTALLATION.

20. ALL QUANTITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND FOR THE CONTRACTOR'S INFORMATION ONLY. THE CITY OF SALINAS DOES NOT, EXPRESSLY OR BY IMPLICATION, AGREE THAT THE ACTUAL AMOUNT OF WORK SHALL CORRESPOND THEREWITH. PAYMENT SHALL BE MADE ONLY ON THE BASIS OF THE ACTUAL QUANTITIES OF WORK PERFORMED.

21. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING LINES AND MARKINGS BY WET SANDBLASTING, INCLUDING THE REMOVAL OF ALL PAVEMENT MARKINGS.

22. LANE WIDTHS SHALL BE MEASURED BETWEEN CENTERLINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPED LANE OR TOP OF CURB AS APPROPRIATE.

23. ALL REFLECTIVE MARKERS SHALL BE RAISED.

24. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC CONTROL SIGNS. ALL OTHER EXISTING SIGNS SHALL BE PROTECTED-IN-PLACE.

INDEX OF SHEETS

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CITY OF SALINAS
PUBLIC WORKS DEPARTMENT

DESIGNED BY: VICTOR GUTIERREZ
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CONSTRUCTION INSPECTION SUPERVISOR: JAMIE TUGEL, QSP, QSD, CPMSM
PROJECT ENGINEER / MANAGER: VICTOR GUTIERREZ

APPROVED FOR CONSTRUCTION:
DATE ____________
DAVID JACOBS, P.E., L.S.
PUBLIC WORKS DIRECTOR/CITY ENGINEER

REGISTERED PROFESSIONAL ENGINEER — DAVID JACOBS — NO. 48339 — CIVIL — STATE OF CALIFORNIA

REVIEWED BY:
DATE ____________
ANDREW EASTERLING, P.E., T.E.
TRAFFIC ENGINEER

REGISTERED PROFESSIONAL ENGINEER — ANDREW EASTERLING — NO. 2824 — TRAFFIC — STATE OF CALIFORNIA

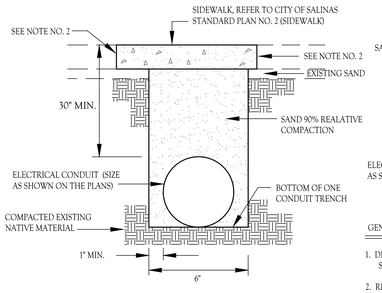
DATE	REVISION	APP.

NORTH MAIN STREET TRAFFIC SIGNAL IMPROVEMENTS	PROJ. NO(S) 9218	SHEET NO. 01
TITLE SHEET	FILE NO. 8219	OF 7

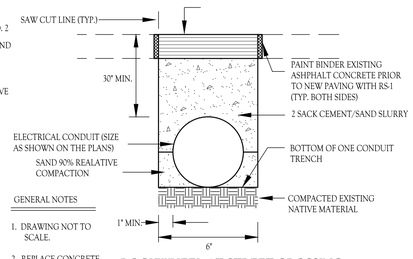
File Path: I:\PWTra\Construction Projects\TS Main St at Navajo Dr\CAD\01 TITLE SHEET.dwg
Plot By: VICTOR GUTIERREZ
Plot Date: 11/7/2019 11:44 AM

CONSTRUCTION NOTES

1. **VIDEO-DETECTION SYSTEM** - FURNISH AND INSTALL RHYTHM INSYNC ADAPTIVE TRAFFIC SIGNAL VIDEO DETECTION SYSTEM PER SPECIAL PROVISIONS AND PER MANUFACTURER'S SPECIFICATIONS. SYSTEM MUST OPERATE WITH THE EXISTING IN-SYNC ADAPTIVE SYSTEM CURRENTLY OPERATING ALONG THE MAIN STREET CORRIDOR BETWEEN BERNAL STREET AND ALVIN DRIVE. SEE SPECIAL PROVISIONS FOR INSTALLATION AND SPECIFICATIONS.
2. **ACCESSIBLE PEDESTRIAN SIGNAL (APS) AND PEDESTRIAN BUTTON STATION (PBS)** - FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM REFER TO SPECIAL PROVISIONS FOR INSTALLATION AND SPECIFICATIONS.
3. **PEDESTRIAN SIGNAL**- FURNISH AND INSTALL INTERNATIONAL SYMBOL TYPE PEDESTRIAN SIGNAL COUNTDOWN PER THE STATE STANDARD PLAN ES-4B DETAIL "B".
4. **OPTICOM EQUIPMENT** - FURNISH AND INSTALL MODEL NO. 764 OPTICOM SIGNAL PRIORITY CONTROL SYSTEM (OR APPROVED EQUAL BY THE CITY ENGINEER). SEE SPECIAL PROVISIONS FOR INSTALLATION AND SPECIFICATIONS.
5. **NO U TURN SIGN WITH LEFT/THRU ARROW**- FURNISH AND INSTALL 36" x 45" R73-4 (CA) REGULATORY (NO U TURN SYMBOL WITH LEFT/THRU ARROW) SIGN, MAST ARM MOUNTED PER DETAIL "U" ON CALTRANS STANDARD PLAN ES-7N.
6. **LEFT AND U TURN ARROW SIGN**- FURNISH AND INSTALL 36" X 36" R73-2 (CA) REGULATORY (LEFT AND U TURN ARROWS) SIGN, MAST ARM MOUNTED PER DETAIL "U" ON CALTRANS STANDARD PLAN ES-7N.
7. **CONTROLLER CABINET** - FURNISH AND INSTALL STRETCH "P" TYPE NEMA TS-2, TYPE 2 CONTROLLER CABINET (44" WIDE PER STATE STANDARD PLAN ES-3A AND COMPLETE WITH FOUNDATION, ANCHOR BOLTS , PER CITY OF SALINAS SPECIFICATIONS. REFER TO "TYPE P CONTROLLER CABINET AND FOUNDATION DETAIL" ON SHEET NO. X OF THESE PLANS. CABINET SHALL BE FULLY WIRED FOR 8 VEHICLE PHASES, 4 PEDESTRIAN PHASES AND 4 CHANNEL EMERGENCY VEHICLE DETECTION (OPTICOM) OPERATIONS. FINAL LOCATION SHALL BE DETERMINED BY THE CITY ENGINEER.
8. **SERVICE CABINET/EQUIPMENT** - FURNISH AND INSTALL TYPE III-AF SERVICE CABINET WITH 3 WIRE, 120/240V, 100A MAIN CKT. BKR, COMPLETE WITH FOUNDATION, 4 JAW METER SOCKET, CONDUIT, WIRING (STAINLESS STEEL CONSTRUCTION); PER STATE STANDARD PLAN ES-2C AND ES-2D. INSTALL HIGHWAY LIGHTING AND SIGN LIGHTING TEST SWITCH PER ELECTRICAL SERVICE DIAGRAM ON SHEET NO. 4. INSTALL TYPE V PHOTOELECTRIC CONTROL (PEC) PER TRAFFIC SIGNAL GENERAL NOTE NO. 11 ON ON SHEET NO. 4 OF THESE PLANS.
9. **STREET NAME SIGN (ALUMINUM)**- FURNISH AND INSTALL STREET NAME SIGN (SNS), ON SIGNAL POLE. SEE DETAIL NO. 1 ON THIS SHEET FOR SIGN SIZE AND LEGEND.
10. **EXISTING STREET LIGHT**- REMOVE AND DISPOSE OF EXISTING STREET LIGHT AND FOUNDATION. BACK WITH NATIVE MATERIAL AND COMPACT TO MATCH EXISTING CONDITION. COORDINATE WITH PG&E TO DISCONNECT STREET LIGHT PRIOR TO REMOVAL .
11. **SIGNAL INTERCONNECT** - CONTRACTOR TO LOCATE AND INTERCEPT EXISTING SIGNAL INTERCONNECT CABLE (SIC) FROM ALVIN DRIVE AND TERMINATE AT NEW TRAFFIC SIGNAL CONTROLLER CABINET AT NAVAJO DRIVE. INSTALL NEW SIC FROM NAVAJO DRIVE SIGNAL CONTROLLER CABINET AND TERMINATE AT ALVIN DRIVE. NO SPLICES ALLOWED. REPLACE DAMAGED CONDUIT AS NECESSARY.
12. **NO. 6 PULLBOX** - FURNISH AND INSTALL NEW NO. 6E PULLBOX PER CALTRANS STANDARD PLANS ES-8 AND REFER TO "PULLBOX DETAIL" ON SHEET NO. 11 OF THESE PLANS.
13. **POLE MOUNTED SIGNS** - FURNISH AND INSTALL BIKE ROUTE SIGN (D11-1) 24"X8", BIKE ROUTE ARROW SIGN (M6-3) 12"X9", "NO TRUCKS SIGN" (R5-2) 24"X24" AND TRUCK EXCLUSION PLAQUE "OVER 3 TONS" (R20D-1 -CA) 24"X6" ON TRAFFIC SIGNAL POLE BY STRAP AND SADDLE BRACKET METHOD.
14. **EXISTING SIGN AND POLE** - REMOVE AND SALVAGE EXISTING SIGN TO CITY MAINTENANCE YARD. REMOVE AND DISPOSE OF EXISTING POLE. AND FOUNDATION (COMPLETE).



ROCKWHEEL AT SIDEWALK CROSSING



GENERAL NOTES

1. DRAWING NOT TO SCALE.
2. REPLACE CONCRETE SIDEWALK TO THE NEAREST SCORE LINE.

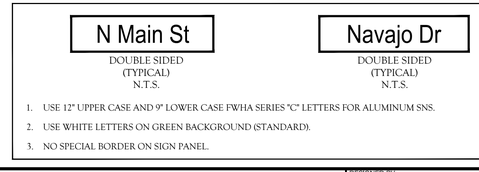
ROCKWHEEL AT STREET CROSSING

ROCKWHEEL TRENCH DETAIL

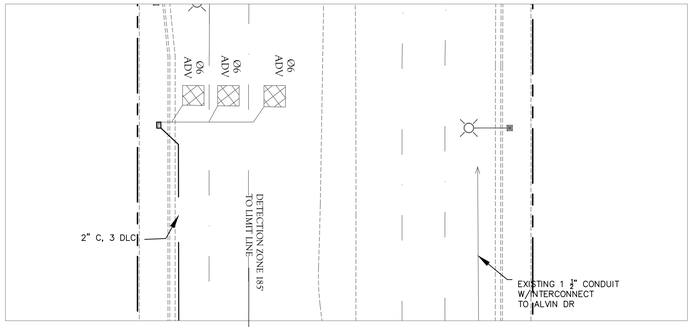
POLE AND EQUIPMENT SCHEDULE

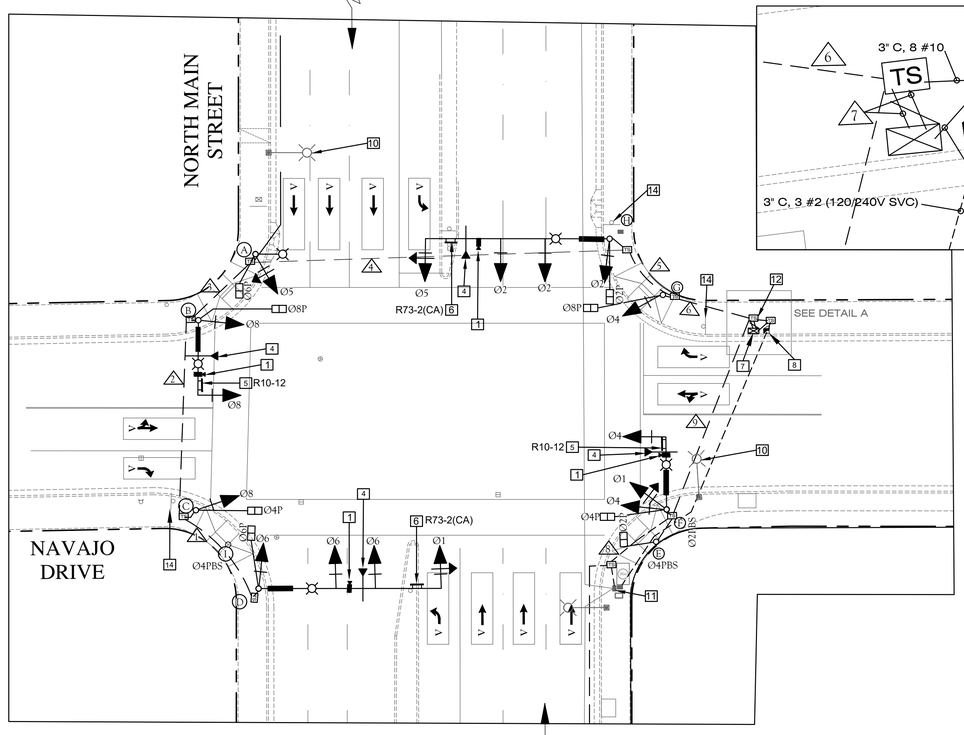
NO.	STANDARD TYPE	SMA	"I" DIST	LMA	VEH SIG MTG MAST ARM	POLE	PED. SIG Ø	MTG	PBS Ø	PBS ARROW	LED LUM	I.I.S.N.S LEGEND	REMARKS / KEY NOTES
A	21TS	-	-	15	-	SV-1-TA	Ø6P	SP-1-T			101W	-	3
B	17-3-100	20'	-	15'	MAS Ø8	SV-1-T	Ø8P	SP-1-T	6 8	← ←	101W	N Main St	1,2,3,4,5,9
C	1A(10')	-	-	-	-	TV-1-T	Ø4P	SP-1-T	6	→	-	-	3,2
D	29A-5-100	50'	18'	15'	MAS Ø1 MAS Ø6	SV-1-T	Ø6P	SP-1-T			101W	Navajo Dr	1,2,3,4,6,9
E	1A(10')	-	-	-	-			SP-1-T	4	→	101W	-	2,3
F	17-3-100	20'	-	15'	MAS Ø4	SV-2-T	Ø4P	SP-1-T	2	←	101W	N Main St	1,2,3,4,5,9
G	1A(10')	-	-	-	-	TV-1-T	Ø8P	SP-1-T	2 8	→ →	-	-	2,3
H	29A-5-100	50'	18'	15'	MAS Ø2 MAS Ø5	SV-1-T	Ø2P	SP-1-T			101W	Navajo Dr	1,3,4,6,9
I	4" Aluminum	–	–	–	–		–	–	4	←	–	–	2
		–	–	–	–		–	–			–	–	

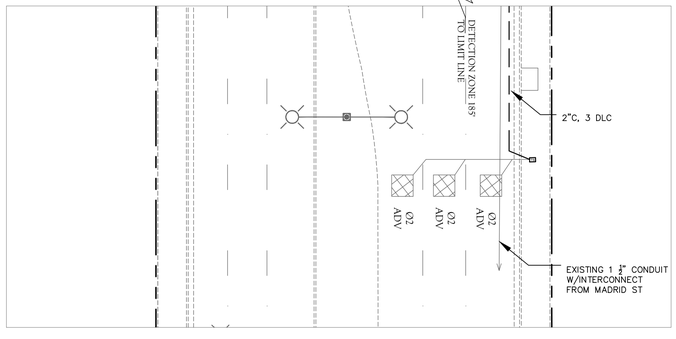
DETAIL NO. 1



1. USE 12" UPPER CASE AND 9" LOWER CASE FWHA SERIES "C" LETTERS FOR ALUMINUM SNS.
2. USE WHITE LETTERS ON GREEN BACKGROUND (STANDARD).
3. NO SPECIAL BORDER ON SIGN PANEL.

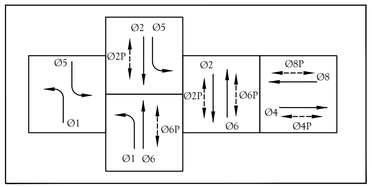






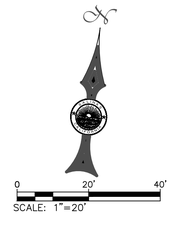
DETAIL A

PHASE DIAGRAM



TRAFFIC SIGNAL SHEET NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT (I.E. TRAFFIC SIGNAL POLES, MASTARMS, LUMINAIRE, PULLBOXES, VEHICLE SIGNAL FACE, BRACKETS, ETC.), EXCEPT WHEN N.I.C. (NOT IN THE CONTRACT) IS SPECIFIED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS. THE CONTRACTOR SHALL INSTALL ALL MATERIALS, EQUIPMENT, LABOR, AND INCIDENTAL WORK FOR THE PROJECT.
2. ALL "RED", "YELLOW", AND "GREEN" VEHICLE SIGNAL FACES SHALL BE CALTRANS APPROVED LIGHT EMITTING DIODE (LED). ALL LENSES ON SIGNAL HEADS SHALL BE 12" DIAMETER WITH BACK PLATES AND VISORS. SCREWS SHALL BE PLACED IN ALL BACK PLATE SCREW HOLES. ALL VEHICLE SIGNALS (BACKPLATES AND TUNNEL VISORS) AND PEDESTRIAN SIGNALS SHALL BE POLYCARBONATE.
3. CONTRACTOR SHALL INSTALL TYPE V PHOTO-ELECTRIC CONTROL (PEC) FOR STREET LIGHTS ON TOP OF POLE F.
4. LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE. DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT 811 OR (800)227-2600. POT HOLING REQUIRED FOR UTILITIES SHOWN OR NOT SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTOR BID PRICE. POT HOLING FOR UTILITIES SHALL BE COMPLETED PRIOR TO ORDERING POLES. CONTRACTOR SHALL COORDINATE ALL PHASES OF CONSTRUCTION WITH AFFECTED AGENCIES AND UTILITY COMPANIES.
5. AT THE TIME OF THE SIGNAL TURN-ON, ALL SIGNAL EQUIPMENT SHALL OPERATE ACCORDING TO THE DESIGN SPECIFIED IN THE PLAN AND SPECIFICATIONS AND TO THE SATISFACTION OF THE ENGINEER IN THE FIELD.
6. ALL NEW PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE SHOWN. PULL BOX COVERS SHALL BE MARKED "TRAFFIC SIGNAL", OR "COMMUNICATION", .
7. ALL PEDESTRIAN INDICATIONS SHALL BE TYPE "C" LED COUNTDOWN PED SIGNAL FACE MODULE WITH INTERNATIONAL SYMBOL, PER ES-4B.



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	CONDUCTOR RUN / CONDUIT SIZE	1 4"	2 4"	3 4"	4 4"	5 4"	6 4"	7 2-4"	8 4"	9 4"	10 4"	11 4"
14 AWG	Ø1 VEHICLE	3	3	3	3	3	3	6		3		
	Ø2 VEHICLE					3	3	3				
	Ø3 VEHICLE											
	Ø4 VEHICLE						3	6		3		
	Ø5 VEHICLE				3	3	3	3				
	Ø6 VEHICLE	3	3	3	3	3	3	3				
	Ø7 VEHICLE											
	Ø8 VEHICLE		3	3	3	3	3	3				
	Ø2P					2	2	4		2		
	Ø4P		2	2	2	2	2	4		2		
	Ø6P	2	2	2	2	2	2	2				
	Ø8P			2	2	2	2	2				
	Ø2P.P.B						1	2		1		
	Ø4P.P.B		1	1	1	1	1	2		1		
	Ø6P.P.B		1	1	1	1	1	1				
	Ø8P.P.B			1	1	1	1	1				
	PPB COMMON		1	1	1	1	1	2		1		
	SPARES	6	6	6	6	6	6	12		6		
	TOTAL NO. 14	14	22	25	28	33	37	56		19		
10 AWG	LUMINAIRES	2	2	2	2	2	2			2	4	
	SIGNAL COMMON	1	1	1	1	1	1	2		1		
	TOTAL NO. 10	3	3	3	3	3	3	2		3	4	
6 AWG	120V SIGNAL SERVICE										2	
8 AWG	GROUND										1	
DLC	Ø1											
	Ø2							3	3	3		
	Ø3											
	Ø4											
	Ø5											
	Ø6				3	3	3	3				
	Ø7											
	Ø8											
	TOTAL DLC				3	3	3	6	3	3		
VIDEO	VIDEO CABLE	1	1	2	2	3	3	4		1		
SIC	EXISTING SIGNAL INTERCONNECT							1	1	1		
	NEW SIGNAL INTERCONNECT							1	1	1		
EMV	OPTICOM	1	1	1	1	1	1	2		1		
	TOTAL CONDUCTORS	19	27	31	37	43	47	72	5	29	7	
	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9	10	11

CITY OF SALINAS
PUBLIC WORKS DEPARTMENT

DESIGNED BY: VICTOR GUTIERREZ
CAD BY: VICTOR GUTIERREZ
CONSTRUCTION INSPECTION SUPERVISOR: JAMIE TUGEL, QSP, QSD, CPMSM
PROJECT ENGINEER / MANAGER: VICTOR GUTIERREZ

APPROVED FOR CONSTRUCTION:
DATE 8/16/2019
DAVID JACOBS, P.E., L.S.
PUBLIC WORKS DIRECTOR/CITY ENGINEER

REGISTERED PROFESSIONAL ENGINEER DAVID JACOBS NO. 48339 CIVIL STATE OF CALIFORNIA

REVIEWED BY:
DATE 8/16/2019
ANDREW EASTERLING, P.E., T.E.
TRAFFIC ENGINEER

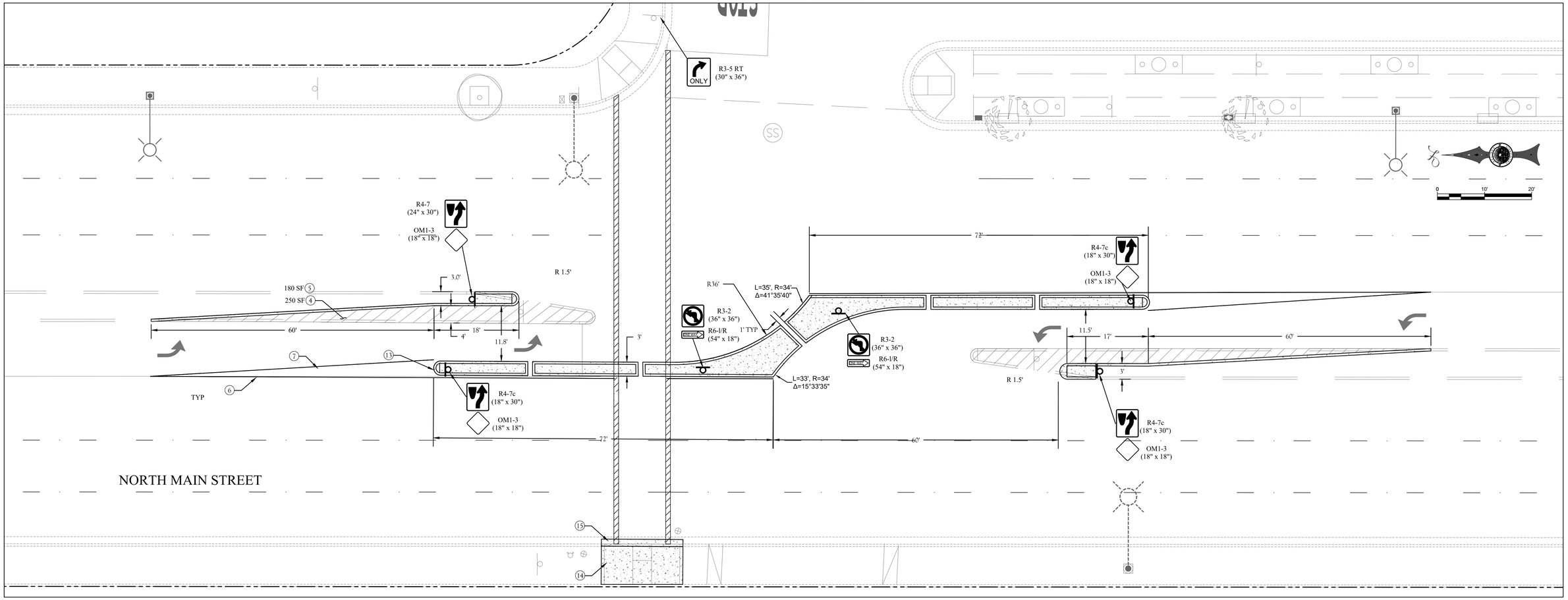
REGISTERED PROFESSIONAL ENGINEER ANDREW EASTERLING NO. 2824 TRAFFIC STATE OF CALIFORNIA

DATE	REVISION	APP.

NORTH MAIN STREET TRAFFIC SIGNAL IMPROVEMENTS
TRAFFIC SIGNAL PLAN AT N MAIN ST AT NAVAJO DR

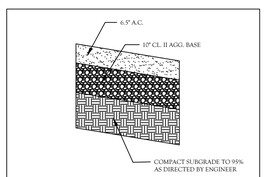
PROJ. NO(S) 9218 | SHEET NO. 02
FILE NO: 8219 | OF 7

File Path: I:\PVTrs\Construction Projects\TS Main St at Navajo Dr\CAD\02 TRAFFIC SIGNAL.dwg
Plot By: VICTOR GUTIERREZ
Plot Date: 11/7/2019 11:44 AM

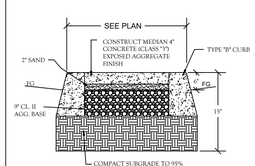


KEY NOTES

1. CONSTRUCT TYPE "A" CURB PER CITY OF SALINAS STANDARD PLAN NO. 1. CONTRACTOR SHALL INSTALL CURB WITH EPOXY (LPL BY MASTER BUILDERS OR APPROVED EQUAL BY THE CITY ENGINEER) AND #4 x 12" DOWELS AT 6' O.C. MINIMUM.
2. CONSTRUCT 4" P.C.C. CLASS 3"/2" SAND CUSHION RAISED MEDIAN ISLAND NOSE WITH A COARSE BROOM FINISH.
3. FURNISH AND INSTALL 1/2" x 18" LONGITUDINAL BAR, BAR TO BE CENTERED AND EPOXY INTO EXISTING AND NEW CURB (TYPICAL).
4. REMOVE AND DISPOSE OF EXISTING RAISED MEDIAN ISLAND AND CURB. INCLUDES REMOVAL OF ASPHALT CONCRETE; AGGREGATE BASE; CONCRETE; SAND.
5. CONSTRUCT NEW TYPE "B" (1/2" MEDIUM) HOT MIX ASPHALT CONCRETE STREET SECTION AS NECESSARY TO MATCH EXISTING FINISHED GRADE PRIOR TO OVERLAY.
6. INSTALL 8" WHITE CHANNELIZING LANE PER CALTRANS STD PLAN A20D DETAIL 38.
7. INSTALL 8" WHITE CHANNELIZING LANE PER CALTRANS STD PLAN A20D DETAIL 38A.
8. INSTALL NEW STREET SIGNS AS SHOWN PER CITY OF SALINAS STANDARD PLAN 48.
9. REMOVE EXISTING SIGN AND RETURN TO CITY MAINTENANCE YARD.
10. REMOVE EXISTING CROSSWALK PAVEMENT MARKINGS.
11. INSTALL LEFT TURN ARROW PER CITY STD PLAN NO. 40.
12. PAINT MEDIAN ISLAND NOSE YELLOW PER CITY STD. PLAN NO. 14.
13. PAINT MEDIAN ISLAND NOSE WHITE PER CITY STD. PLAN NO. 15.
14. CONSTRUCT SIDEWALK PER CITY STD. PLAN NO. 2
15. CONSTRUCT CURB AND GUTTER PER CITY STD. PLAN NO. 1.
16. INSTALL WHITE TRIPLE-4 CROSSWALK IN THERMOPLASTIC AS SHOWN PER CITY OF SALINAS STANDARD PLAN 44R.
17. REMOVE EXISTING STOP LEGEND.



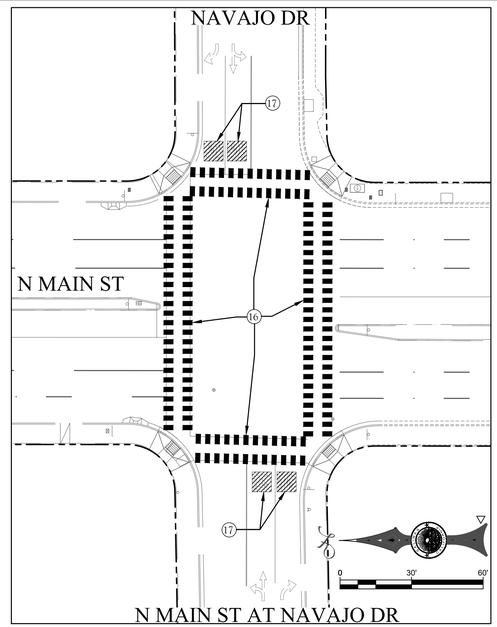
A.C. TYPICAL DETAIL



MEDIAN DETAIL

LEGEND

- NEW TYPE "A" CURB
- NEW MEDIAN ISLAND
- REMOVE CONCRETE ISLAND, CURB AND ASPHALT PAVEMENT
- REMOVE PAVEMENT MARKINGS (COMPLETE)



N MAIN ST AT NAVAJO DR

CITY OF SALINAS

PUBLIC WORKS DEPARTMENT

DESIGNED BY: VICTOR GUTIERREZ
CAD BY: VICTOR GUTIERREZ
CONSTRUCTION INSPECTION SUPERVISOR: JAMIE TUGEL, QSP, QSD, CPMSM
PROJECT ENGINEER / MANAGER: VICTOR GUTIERREZ

APPROVED FOR CONSTRUCTION:
DATE 8/16/2019
DAVID JACOBS, P.E., L.S.
PUBLIC WORKS DIRECTOR/CITY ENGINEER

REGISTERED PROFESSIONAL ENGINEER — DAVID JACOBS — NO. 48339 — CIVIL — STATE OF CALIFORNIA

REVIEWED BY:
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ANDREW EASTERLING, P.E., T.E.
TRAFFIC ENGINEER

REGISTERED PROFESSIONAL ENGINEER — ANDREW EASTERLING — NO. 2824 — TRAFFIC — STATE OF CALIFORNIA

DATE	REVISION	APP.

NORTH MAIN STREET TRAFFIC SIGNAL IMPROVEMENTS

DIRECTIONAL MEDIAN ISLAND

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SHEET NO.: 03
FILE NO.: 8219
OF: 7

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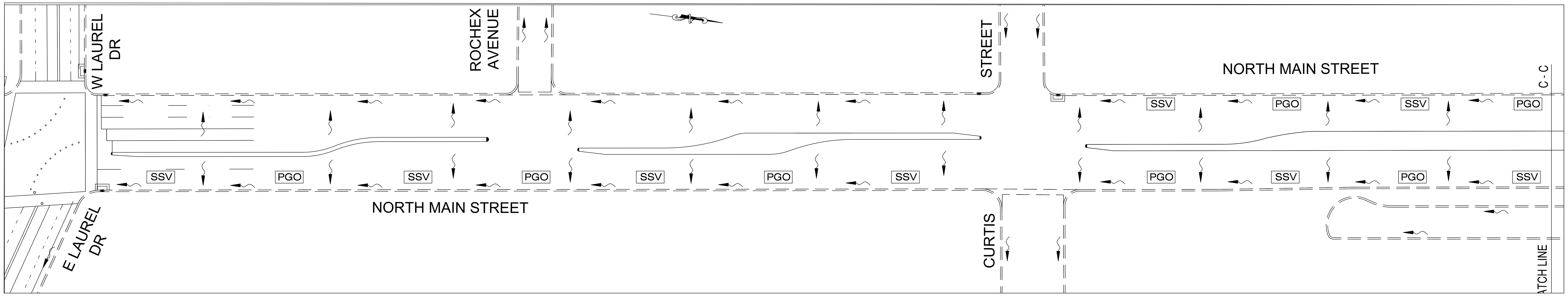
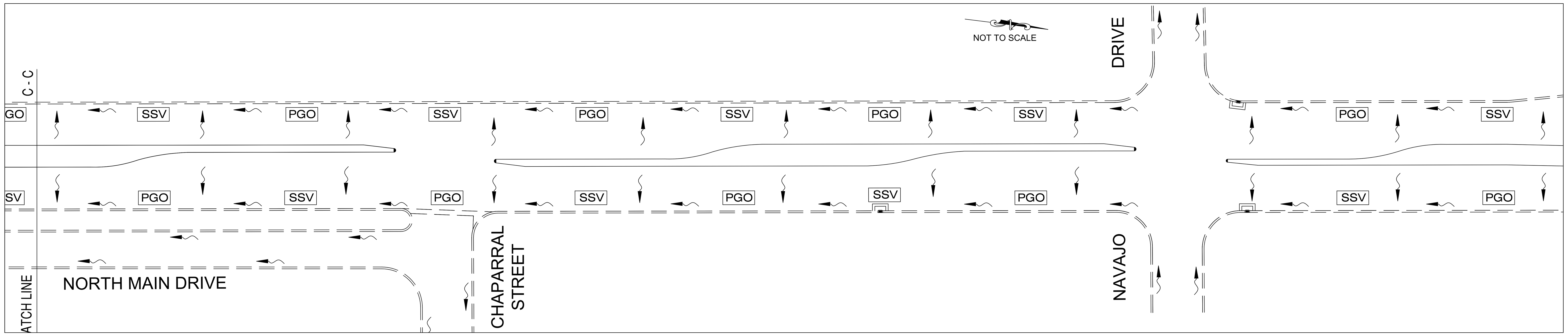
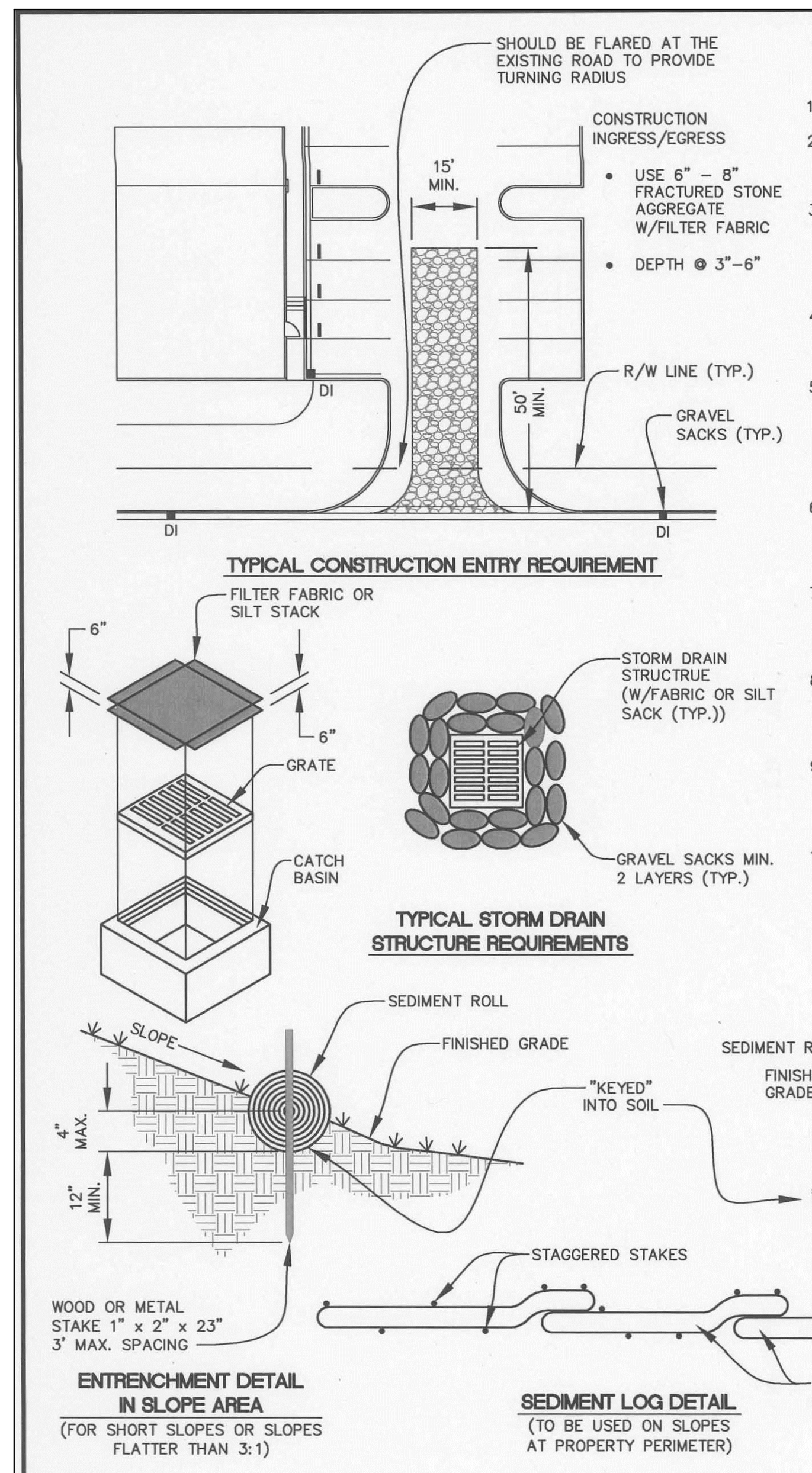
Plot Date: 1/7/2019 11:45 AM





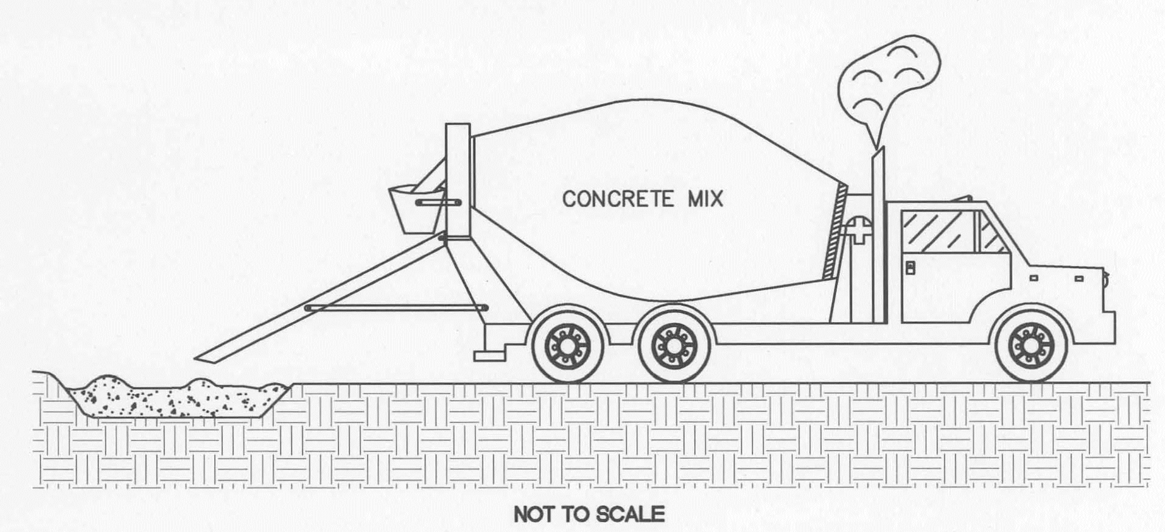


GENERAL NOTE

1. DRAWING NOT TO SCALE.
2. GRAVEL BAGS SHALL BE USED ON ALL DRAINAGE INLETS; ON–SITE TOP OPENINGS AND SIDE OPENINGS.
3. GRAVEL BAGS SHALL BE USED ON ALL DRAINAGE INLETS WITHIN THE CITY OF SALINAS RIGHT–OF–WAY IMPACTED BY THE PROJECT (DOWN STREAM INLETS AND FIRST INLET UP STREAM)
4. PLACE TYPE I BARRACADE OVER DRAINAGE INLET WHEN FILTER FABRIC AND GRAVEL SACKS ARE UTILIZED.
5. INSPECT (AND DOCUMENT EACH INSPECTION) ALL INLET PROTECTION DEVICES BEFORE AND AFTER RAINFALL EVENTS, AND WEEKLY THROUGHOUT RAINY SEASON. DURING EXTENDED RAINFALL EVENTS, INSPECT INLET PROTECTION DEVICES AT LEAST ONCE EVERY 24 HOURS.
6. REMOVE ALL INLET PROTECTION DEVICES WITHIN 30 CALENDAR DAYS AFTER THE SITE IS STABILIZED, OR WHEN INLET PROTECTION IS NO LONGER REQUIRED.
7. PRIOR TO ROLL INSTALLATION, CONTOUR A CONCAVE KEY TRENCH 3" MINIMUM TO 4" MAXIMUM DEEP ALONG THE PROPOSED INSTALLATION ROUTE.
8. SOIL EXCAVATED IN TRENCHING SHOULD BE PLACED ON THE UPHILL OR FLOW SIDE OF THE ROLL TO PREVENT WATER FROM UNDER CUTTING THE ROLL.
9. PLACE SEDIMENT ROLL INTO KEY TRENCH AND STAKE ON BOTH SIDES OF THE ROLL TO WITHIN 3' OF EACH END AND THEN EVERY 3' WITH 1" x 2" x 23" WOOD OR METAL STAKES.
10. STAKES ARE TYPICALLY DRIVEN IN ON ALTERNATING SIDES OF THE ROLL. WHEN MORE THAN ONE SENDIMENT ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED 12" MIN. TO PROVIDE A TIGHT JOIN, NOT ABUTTED TO ONE ANOTHER.

DEVELOPMENT & ENGINEERING SERVICES DEPARTMENT
ENGINEERING SERVICES DIVISION — CITY OF SALINAS

TITLE: BEST MANAGEMENT PRACTICES	STANDARD PLAN
DESIGNED BY: STAFF; CADD BY: STAFF; PROJECT MANAGER: FRANK A. AGUAYO, P.E.; DATE 10/21/2008; ROBERT C. RUSSELL, CITY ENGINEER R.C.E. 42871, EXPIRES 3-31-2010	59A



NOT TO SCALE

DESCRIPTION

PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF–SITE, PERFORMING ON–SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

APPROACH

THE FOLLOWING STEPS SHALL HELP REDUCE STORM WATER POLLUTION FROM CONCRETE WASTES:

- STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.
- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON–SITE.
- PERFORM WASHOUT OF CONCRETE TRUCKS OFF SITE OR IN DESIGNATED AREAS ONLY.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ON–SITE, EXCEPT IN DESIGNATED AREAS.
- FOR ON–SITE WASHOUT:
  - LOCATE WASHOUT AREA AT LEAST 50' FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
  - WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.
- WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, AVOID CREATING RUNOFF BY DRAINING THE WATER TO A BERMED OR LEVEL AREA.
- DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCK PILE, OR DISPOSE IN THE TRASH.

DEVELOPMENT & ENGINEERING SERVICES DEPARTMENT
ENGINEERING SERVICES DIVISION — CITY OF SALINAS

TITLE: CONCRETE WASTE WASHOUT MANAGEMENT PLAN	STANDARD PLAN
DESIGNED BY: STAFF; CADD BY: STAFF; PROJECT MANAGER: FRANK A. AGUAYO, P.E.; DATE 10/21/2008; ROBERT C. RUSSELL, CITY ENGINEER R.C.E. 42871, EXPIRES 3-31-2010	59B

CONTRACTOR NOTE

1. PRIOR TO CERTIFICATION AND SUBMITTAL OF THE WATER POLLUTION CONTROL PLAN (WPCP). THE CONTRACTOR SHALL DELINEATE ON THESE PLANS AREAS FOR CONCRETE WASHOUT, VEHICLE CLEANING, FUELING, AND MAINTENANCE AS REQUIRED BY CONSTRUCTION ACTIVITIES.

LEGEND

Symbol	Description
PGO	PAVING OPERATIONS
SSV	STREET SWEEPING AND VACUUMING
CWM WASH CWM	CONCRETE WASH–OUT AREA
	STORM DRAIN INLET PROTECTION
	SURFACE FLOW DIRECTION
	SURFACE FLOW WATERSHED
△	FURNISH AND INSTALL NEW STORM DRAIN MARKER PER CITY OF SALINAS STANDARD PLAN NO. 20

GENERAL WATER POLLUTION CONTROL NOTES

1. THE INFORMATION ON THESE PLANS ARE ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.
2. THE INFORMATION ON THESE PLANS ARE INTENDED TO BE USED AS A GUIDELINE FOR CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE SITE. THESE PLANS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER POLLUTION CONTROL PROGRAM (WPCP).
3. ACTUAL CONSTRUCTION OPERATIONS AND FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH MODIFICATIONS.
4. ALL DRAINAGE INLETS RECEIVING RUNOFF FROM DISTURBED SOIL AREAS SHALL BE PROTECTED WITH A GRAVEL BAG SEDIMENT TRAP INLET PROTECTION.
5. INSTALL BEST MANAGEMENT PRACTICES AS SHOWN ON PLAN. REFER TO "BEST MANAGEMENT PRACTICES" ON THE CITY OF SALINAS STANDARD PLAN NO. 59A.
6. INSTALL CONCRETE WASTE WASHOUT MANAGEMENT PLAN, REFER TO "CONCRETE WASTE WASHOUT MANAGEMENT PLAN" ON THE CITY OF SALINAS STANDARD PLAN NO. 59B.

CITY OF SALINAS

PUBLIC WORKS DEPARTMENT

DESIGNED BY: VICTOR GUTIERREZ
CAD BY: VICTOR GUTIERREZ
CONSTRUCTION INSPECTION SUPERVISOR: JAMIE TUGEL, QSP, QSD, CPMSM
PROJECT ENGINEER / MANAGER: VICTOR GUTIERREZ

APPROVED FOR CONSTRUCTION:
DATE 8/16/2019
DAVID JACOBS, P.E., L.S.
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REGISTERED PROFESSIONAL ENGINEER — DAVID JACOBS — NO. 48339 — CIVIL — STATE OF CALIFORNIA

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TRAFFIC ENGINEER

REGISTERED PROFESSIONAL ENGINEER — ANDREW EASTERLING — NO. 2824 — TRAFFIC — STATE OF CALIFORNIA

DATE	REVISION	APP.

NORTH MAIN STREET TRAFFIC SIGNAL IMPROVEMENTS

SWPPP

PROJ. NO(S)	SHEET NO.
9218	04
FILE NO.	OF
8219	7

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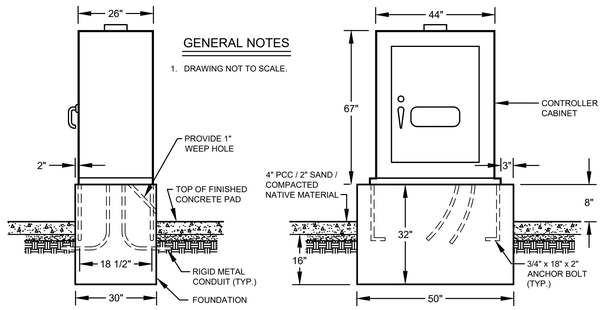
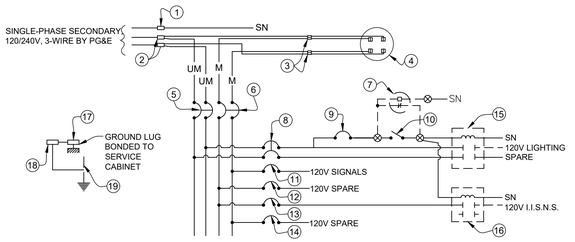
Plot Date: 11/7/2019 11:45 AM



STRETCH "P" CONTROLLER CABINET AND FOUNDATION DETAIL



NOTES:

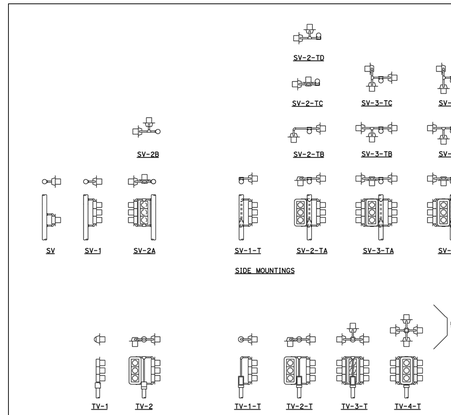
1. FOR SIGN LIGHTING TEST SWITCH (15A., 2P., TEST SWITCH) AND HIGHWAY 1. LIGHTING TEST SWITCH (15A., 2P., TEST SWITCH) SEE STATE STANDARD PLAN NO. ES-2D, 120/240V SERVICE WIRING DIAGRAM ITEM NO. 11 AND 22.
2. TYPE III-AF SERVICE CABINET WITH 100A MAIN, CIRCUIT BREAKER COMPLETE 2. WITH PEDESTAL, 4 JAW METER SOCKET ALWALT, 3W, 120/240V, 1004 CD OR EQUAL, CONDUIT, WIRING, (STAINLESS STEEL CONSTRUCTION).

SYMBOL AND ABBREVIATION LEGEND			
P	POLE		EXTERNAL CONDUCTOR
CB	CRCUIT BREAKER		CONDUCTOR OR BUS
A	AMPERE		TIE POINT
V	VOLT		CONTACTOR COIL
M	METERED		CONTACTOR, CONTACT NO
UM	UNMETERED	⊗	TERMINAL BLOCKS
SN	SOLID NEUTRAL		CONTACTOR, CONTACT NC
NO	NORMALLY OPEN		ENCLOSURE BOND
NC	NORMALLY CLOSED		GROUND

TYPE III-AF SERVICE EQUIPMENT LEGEND

ITEM NO.	COMPONENT	NAME PLATE DESCRIPTION	ITEM NO.	COMPONENT	NAME PLATE DESCRIPTION
(1)	NEUTRAL LUG		(11)	50A, 120V, IP, CB	SIGNAL
(2)	LANDING LUG		(12)	15A, 120V, IP, CB	SPARE
(3)	TEST BYPASS FACILITY		(13)	15A, 120V, IP, CB	IISNS
(4)	METER SOCKET AND SUPPORT		(14)	15A, 120V, IP, CB	SPARE
(5)	100A, 240V, 2P, CB	UNMETERED MAIN BREAKER	(15)	60A, 2PNO, CONTACTOR	LIGHTING
(6)	100A, 240V, 2P, CB	METERED MAIN BREAKER	(16)	35A, 2PNO, CONTACTOR	IISNS
(7)	PHOTOELECTRIC UNIT		(17)	GROUND LUG	
(8)	30A, 240V, 2P, CB	LIGHTING	(18)	SOLID NEUTRAL TERMINAL STRIP	
(9)	15A, 120V, IP, CB	LIGHTING CONTROL	(19)	GROUND ROD	
(10)	15A, IP, TEST SWITCH	LIGHTING CONTROL TEST SWICH			

TYPE III-AF SERVICE ENCLOSURE WIRING DIAGRAM



ABBREVIATIONS:

SV SIDE MOUNTED SIGNAL HEADS
T TERMINAL COMPARTMENT
TV TOP MOUNTED SIGNAL HEADS
1, 2, 3, 4 NUMBER OF SIGNAL FACES (3 = SECTION, UNLESS OTHERWISE INDICATED)
A, B, C, D CONFIGURATION OF SIGNALS

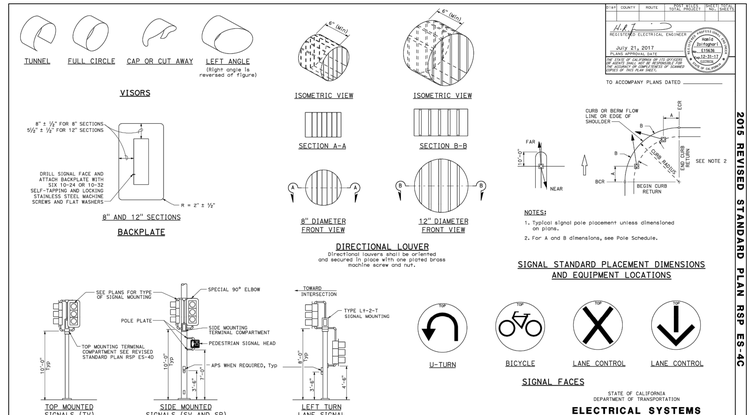
NOTES:

1. Mountings shall be oriented to provide maximum horizontal clearance to adjacent roadway.
2. Bracket arms shall be long enough to permit proper alignment of signals and facilitate installation.
3. See Standard Plans ES-4D and ES-4E for attachment fitting details.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)
NO SCALE

ES-4A

2015 STANDARD PLAN ES-4A

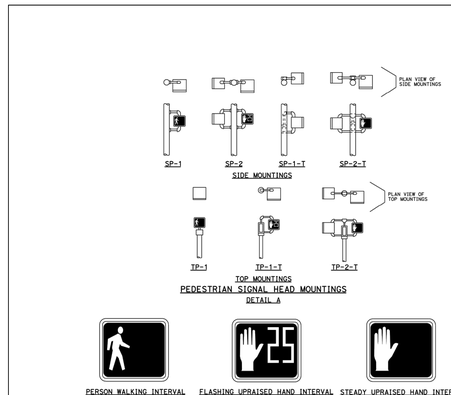


STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)
NO SCALE

RSP ES-4C DATED JULY 21, 2017 SUPERSEDES STANDARD PLAN ES-4C DATED OCTOBER 30, 2015 - PAGE 442 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP ES-4C

2015 REVISED STANDARD PLAN RSP ES-4C



NOTES:

1. Mounting shall be oriented to provide maximum horizontal clearance to adjacent roadway.
2. Bracket arms shall be long enough to permit proper alignment of signals.
3. See Standard Plan ES-4D for attachment fittings details.

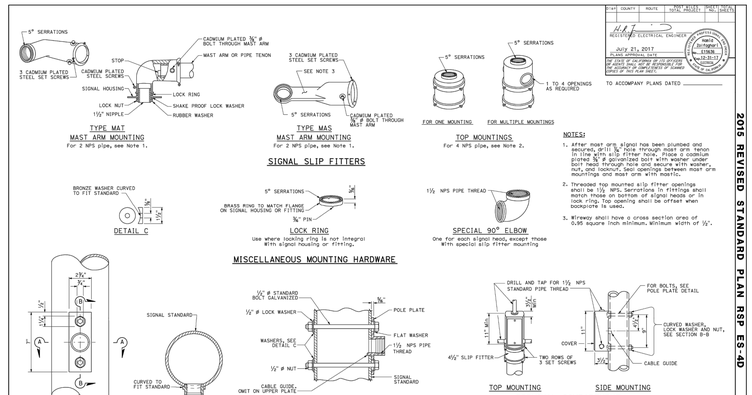
ABBREVIATIONS:

1, 2 NUMBER OF SIGNAL FACES
SP SIDE MOUNTED PEDESTRIAN SIGNAL
T TERMINAL COMPARTMENT
TP TOP MOUNTED PEDESTRIAN SIGNAL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (PEDESTRIAN SIGNAL HEADS)
NO SCALE

ES-4B

2015 STANDARD PLAN ES-4B

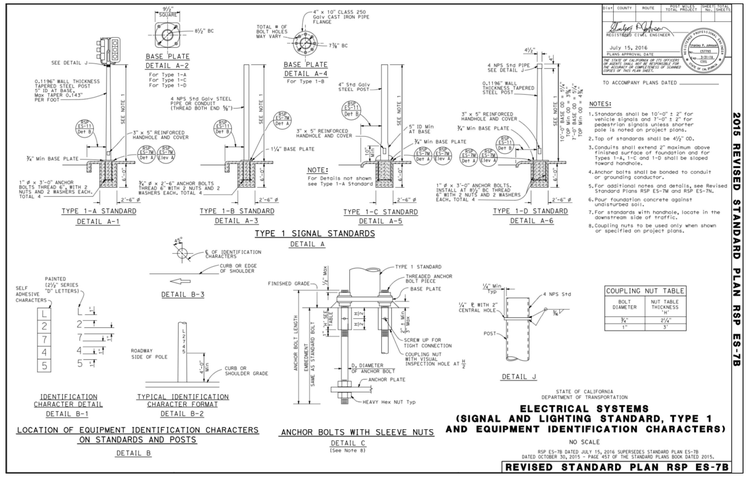


STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL HEAD MOUNTING)
NO SCALE

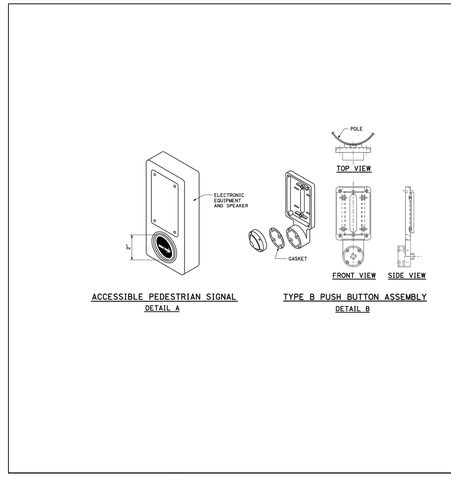
RSP ES-4D DATED JULY 21, 2017 SUPERSEDES STANDARD PLAN ES-4D DATED OCTOBER 30, 2015 - PAGE 443 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP ES-4D

2015 REVISED STANDARD PLAN RSP ES-4D



2015 REVISED STANDARD PLAN RSP ES-7B



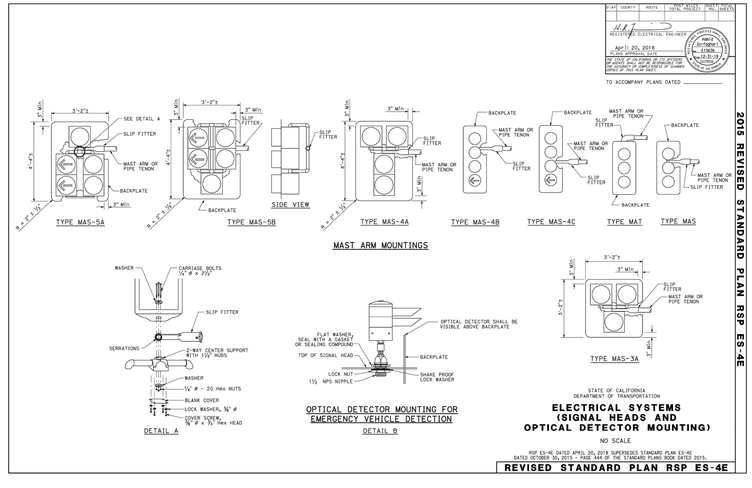
NOTES:

1. Back casting shape to fit curvature of pole.
2. Provide cover fitting for top of post, when PBA is mounted on push button assembly post.
3. Install push button on crosswalk side of standard.
4. Use R10 series regulatory signs and plaques for pedestrian and bicycle facilities.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (ACCESSIBLE PEDESTRIAN SIGNAL AND PUSH BUTTON ASSEMBLIES)
NO SCALE

ES-5C

2015 STANDARD PLAN ES-5C



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL HEADS AND OPTICAL DETECTOR MOUNTING)
NO SCALE

RSP ES-4E DATED APRIL 20, 2018 SUPERSEDES STANDARD PLAN ES-4E DATED OCTOBER 30, 2015 - PAGE 445 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP ES-4E

2015 REVISED STANDARD PLAN RSP ES-4E

CITY OF SALINAS
PUBLIC WORKS DEPARTMENT

DESIGNED BY: VICTOR GUTIERREZ
CAD BY: VICTOR GUTIERREZ
CONSTRUCTION INSPECTION SUPERVISOR: JAMIE TUGEL, QSP, QSD, CPMSM
PROJECT ENGINEER / MANAGER: VICTOR GUTIERREZ

APPROVED FOR CONSTRUCTION:
DATE 8/16/2019
DAVID JACOBS, P.E., L.S.
PUBLIC WORKS DIRECTOR/CITY ENGINEER

REGISTERED PROFESSIONAL ENGINEER DAVID JACOBS NO. 48339 CIVIL STATE OF CALIFORNIA

REVIEWED BY:
DATE 8/16/2019
ANDREW EASTERLING, P.E., T.E.
TRAFFIC ENGINEER

REGISTERED PROFESSIONAL ENGINEER ANDREW EASTERLING NO. 2824 TRAFFIC STATE OF CALIFORNIA

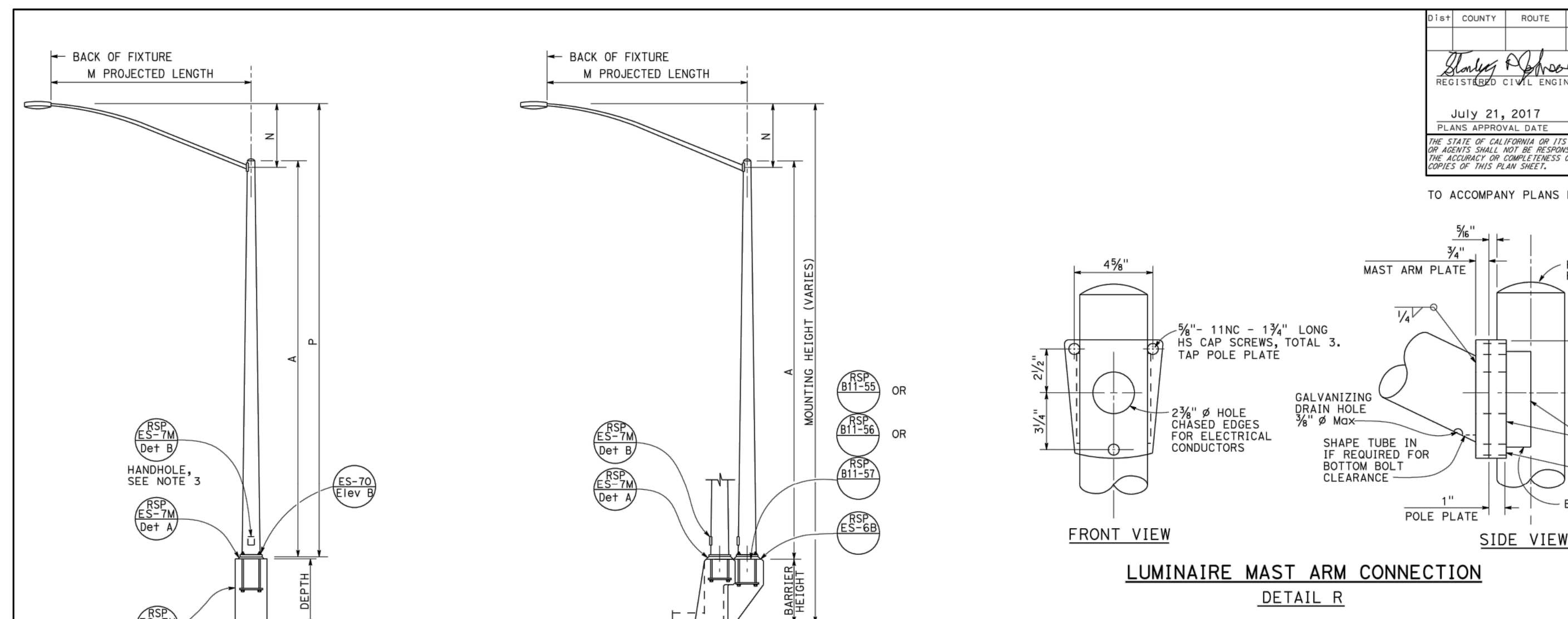
DATE	REVISION	APP.

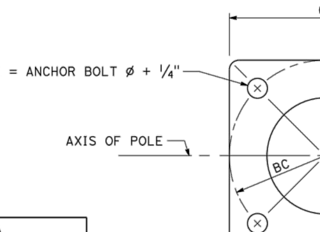
NORTH MAIN STREET TRAFFIC SIGNAL IMPROVEMENTS

DETAILS

PROJ. NO(S) 9218 | SHEET NO. 05
FILE NO. 8219 | OF 7

File Path: \\PVTit\Construction Projects\TS Main St at Navajo Dr\CAD\05 DETAILS.dwg
Plot By: Victor Gutierrez
Plot Date: 11/7/2019 11:46 AM





POLE TYPE	POLE DATA: A HEIGHT	Min OD: BASE	Min OD: TOP	WALL THICKNESS	BASE PLATE DATA: C	BC = BOLT CIRCLE	THICKNESS	ANCHOR BOLT SIZE	CIDH PILE FOUNDATION: Dia	DEPTH
15	30'-0"	8"	3 7/8"	0.1196"	1'-0"	1'-0"	1 1/2"	1" ø x 36" *	2'-6"	6'-0"
21	35'-0"	8 5/8"	3 5/8"	0.1793"			2"	1 1/4" ø x 36" *		7'-0"

* FOR BARRIER RAIL BOLTS, SEE REVISED STANDARD PLAN RSP ES-6B.

LUMINAIRE MAST ARM DATA

M PROJECTED LENGTH	N RISE	Min OD AT POLE	NOMINAL THICKNESS	P TYPE 15	P TYPE 21
6'-0"	2'-0"±	3 1/4"	0.1196"	31'-6"±	36'-6"±
8'-0"	2'-6"±	3 1/2"		32'-0"±	37'-0"±
10'-0"	3'-3"±	3 7/8"		32'-9"±	37'-9"±
12'-0"	4'-3"±			33'-9"±	38'-9"±
15'-0"	4'-9"±	4 1/4"		34'-3"±	39'-3"±

NOTES:

1. [ ] Indicates mast arm length to be used unless otherwise noted on the plans.
2. For Type 15-SB, use Type 15 standard with Type 30 slip base plate details, see Standard Plan ES-6F.
3. Handhole shall be located on the downstream side of traffic.
4. For additional notes and details, see Revised Standard Plans RSP ES-7M and RSP ES-7N.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 15 AND 21)

NO SCALE

RSP ES-6A DATED JULY 21, 2017 SUPERSEDES RSP ES-6A DATED JULY 15, 2016 AND STANDARD PLAN ES-6A DATED OCTOBER 30, 2015 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP ES-6A

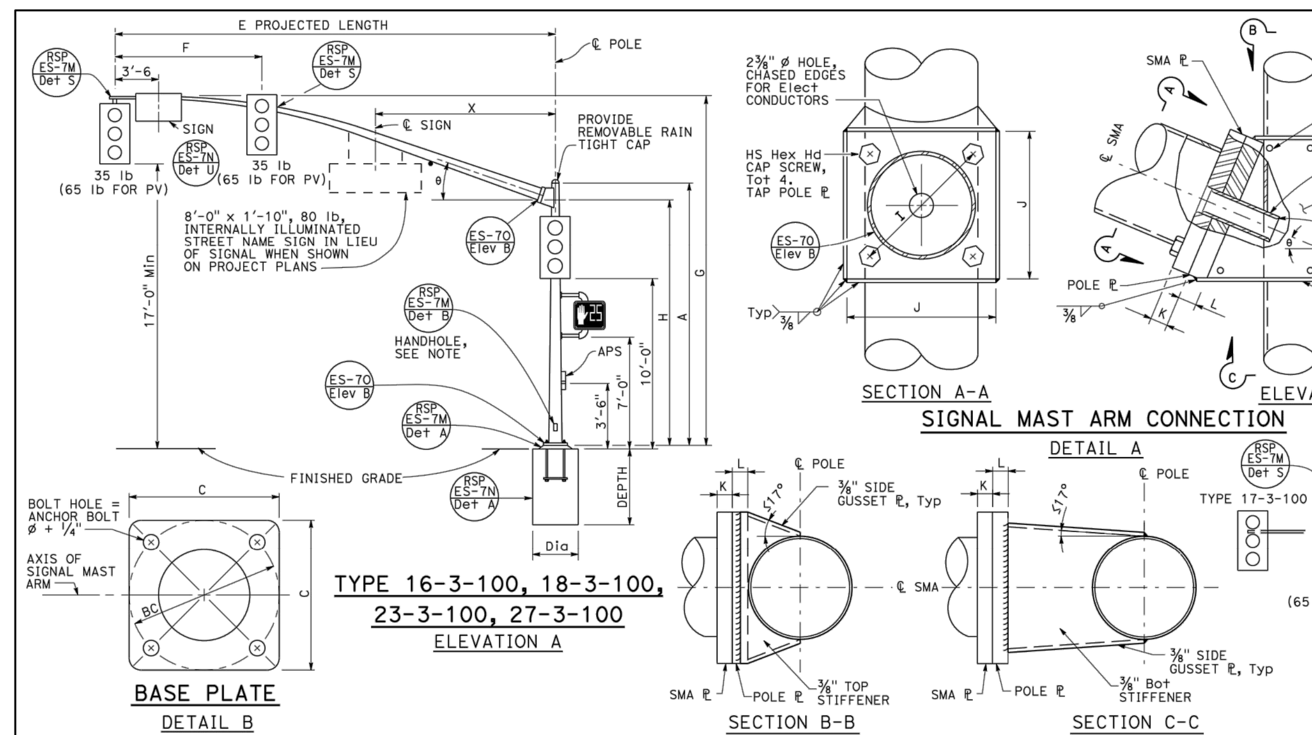
2015 REVISED STANDARD PLAN RSP ES-6A

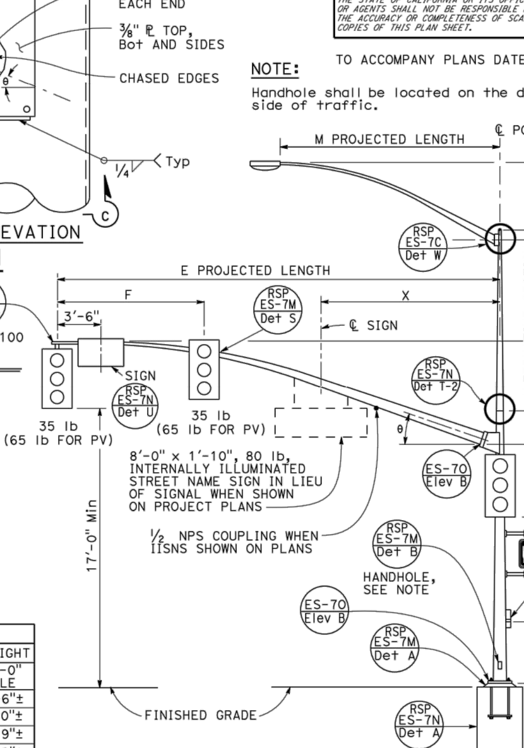
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER — July 21, 2017 — PLANS APPROVAL DATE — Stanley P. Johnson No. C57793 Exp. 3-31-18 CIVIL

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED ______





NOTE: Handhole shall be located on the downstream side of traffic.

SIGNAL MAST ARM DATA

E PROJECTED LENGTH	F Min SPACING	G MOUNTING HEIGHT	H	Min OD AT POLE	THICKNESS	I BOLT CIRCLE	HS CAP SCREWS	J PLATE SIZE	K MAST ARM ℗ THICKNESS	L POLE ℗ THICKNESS	θ	X Max
15'-0"	8'-0"	21'-8"±	17'-6"	7 3/8"	0.1793"	12"	1 1/4"-7NC-3"	1'-3"	1 1/4"	1 1/2"	23°	-
20'-0"		21'-8"±		7 3/8"								
25'-0"	12'-0"	22'-8"±		7 7/8"								10'-6"
30'-0"			16'-0"	8"	0.2391"							
35'-0"	14'-0"	23'-0"±		8 3/4"		13"			1 1/2"	1 3/4"	21°	
40'-0"	15'-0"			9 3/8"							15°	13'-0"
45'-0"		23'-8"±		10 1/16"				1'-5"				

LUMINAIRE MAST ARM DATA

M PROJECTED LENGTH	N RISE	Min OD AT POLE	THICKNESS	P MOUNTING HEIGHT 30'-0" POLE	35'-0" POLE
6'-0"	2'-0"±	3 1/4"	0.1196"	31'-6"±	36'-6"±
8'-0"	2'-6"±	3 1/2"		32'-0"±	37'-0"±
10'-0"	3'-3"±	3 7/8"		32'-9"±	37'-9"±
12'-0"	4'-3"±			33'-9"±	38'-9"±
15'-0"	4'-9"±	4 1/4"		34'-3"±	39'-3"±

POLE TYPE	LOAD CASE	WIND VELOCITY (mph)	A HEIGHT	Min OD BASE	Min OD TOP	THICKNESS	ALTERNATIVE SECTION B LENGTH	BOTTOM	TOP	C	BC = BOLT CIRCLE	THICKNESS	ANCHOR BOLT SIZE	LUMINAIRE MAST ARM	SIGNAL MAST ARM	CIDH PILE Dia	DEPTH
16-3-100	3	100	18'-6"	16"	13 3/8"	0.2391" OR 0.25"				1'-11"	1'-9"	3"	2 1/4" ø x 42"	NONE	15'-0"	3'-6"	12'-0"
17-3-100			30'-0"		11 3/4"		10'-0"	13 1/8"	11 3/4"					6'-15' [12'-0"]	[20'-0"]		
18-3-100			17'-0"		13 5/8"									NONE			
19-3-100			30'-0"		11 3/4"		10'-0"	13 1/8"	11 3/4"					6'-15' [12'-0"]	25'-0",		
19A-3-100			35'-0"		11"	0.3125"	15'-0"		11"					6'-15' [15'-0"]	[30'-0"]		
23-3-100			17'-0"		13 5/8"	0.2391" OR 0.25"								NONE			
24-3-100			30'-0"		11 3/4"		10'-0"	13 1/8"	11 3/4"					6'-15' [12'-0"]	35'-0"		
24A-3-100			35'-0"		11"		15'-0"		11"					6'-15' [15'-0"]			
26-3-100			30'-0"		13 3/4"	0.3125"	10'-0"	15 1/8"	13 3/4"					6'-15' [12'-0"]	40'-0",		
26A-3-100			35'-0"	18"	13"		15'-0"		13"	2'-1"	1'-11"			6'-15' [15'-0"]	[45'-0"]		13'-0"
27-3-100			17'-0"		15 5/8"									NONE			

[ ] INDICATES MAST ARM LENGTH TO BE USED UNLESS OTHERWISE NOTED ON PLANS.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

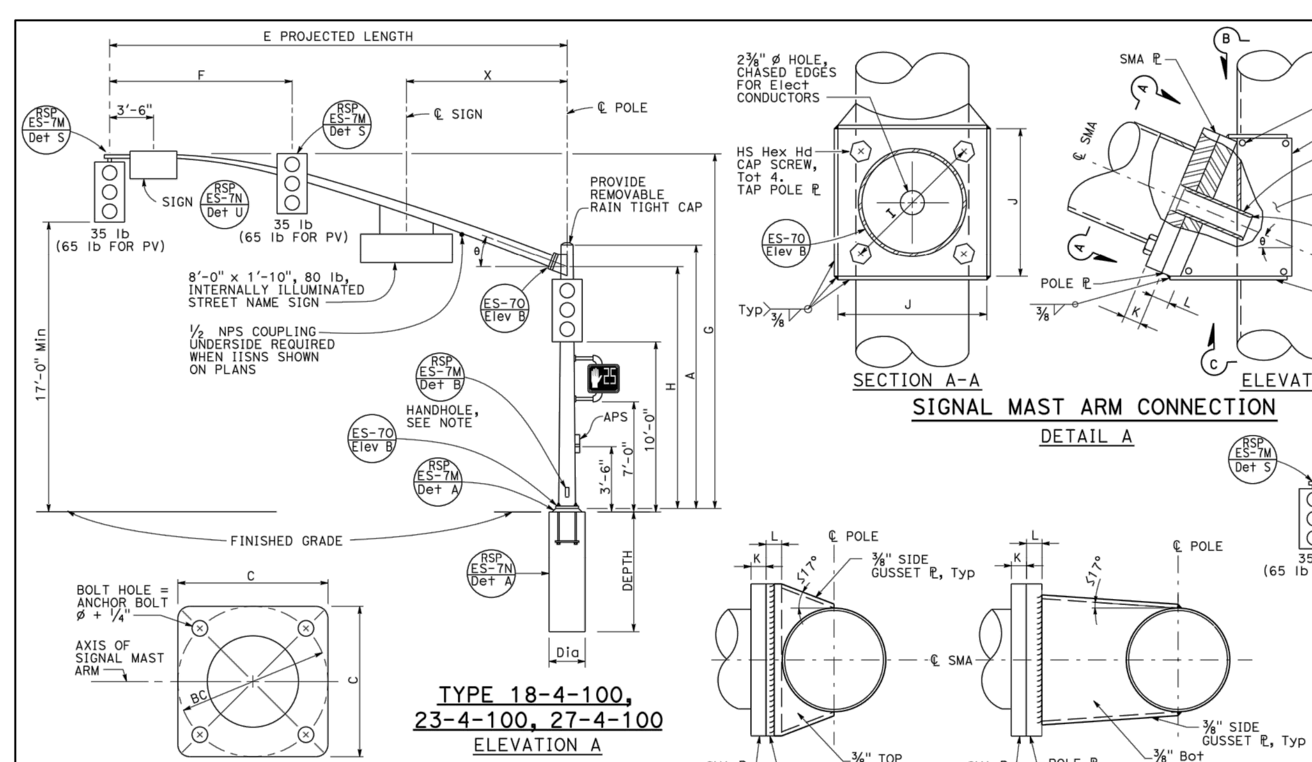
ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, CASE 3 SIGNAL MAST ARM LOADING, WIND VELOCITY=100 MPH AND SIGNAL MAST ARM LENGTHS 15' TO 45')

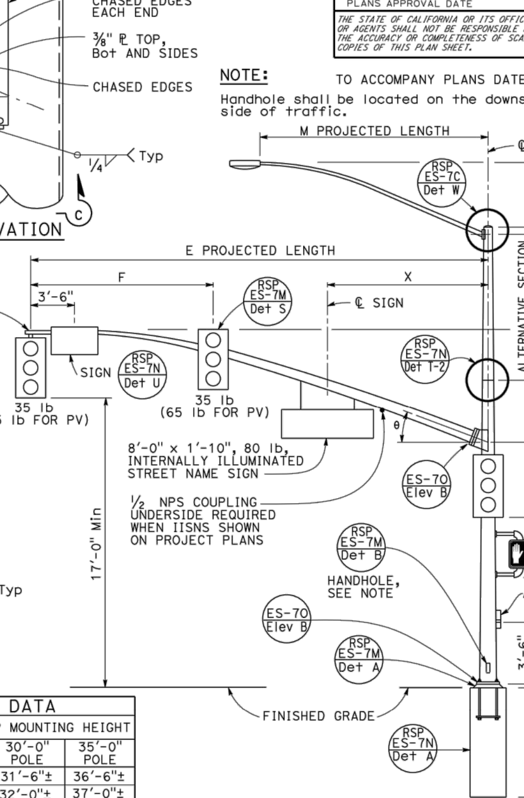
NO SCALE

RSP ES-7E DATED JULY 21, 2017 SUPERSEDES RSP ES-7E DATED JULY 15, 2016 AND STANDARD PLAN ES-7E DATED OCTOBER 30, 2015 - PAGE 460 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP ES-7E

2015 REVISED STANDARD PLAN RSP ES-7E





NOTE: Handhole shall be located on the downstream side of traffic.

SIGNAL MAST ARM DATA

E PROJECTED LENGTH	F Min SPACING	G MOUNTING HEIGHT	H	Min OD AT POLE	THICKNESS	I BOLT CIRCLE	HS CAP SCREWS	J PLATE SIZE	K MAST ARM ℗ THICKNESS	L POLE ℗ THICKNESS	θ	X Max
25'-0"	10'-0"	22'-8"±	16'-0"	7 3/8"	0.2391"	12"	1 1/4"-7NC-3"	1'-3"	1 1/4"	1 1/2"	23°	10'-6"
30'-0"	12'-0"			8"								
35'-0"	14'-0"	23'-0"±		8 11/16"							21°	
40'-0"	15'-0"			9 3/8"		13 1/2"			1 1/2"	1 3/4"	15°	13'-0"
45'-0"		23'-8"±		10 1/4"				1'-5"				

LUMINAIRE MAST ARM DATA

M PROJECTED LENGTH	N RISE	Min OD AT POLE	THICKNESS	P MOUNTING HEIGHT 30'-0" POLE	35'-0" POLE
6'-0"	2'-0"±	3 1/4"	0.1196"	31'-6"±	36'-6"±
8'-0"	2'-6"±	3 1/2"		32'-0"±	37'-0"±
10'-0"	3'-3"±	3 7/8"		32'-9"±	37'-9"±
12'-0"	4'-3"±			33'-9"±	38'-9"±
15'-0"	4'-9"±	4 1/4"		34'-3"±	39'-3"±

POLE TYPE	LOAD CASE	WIND VELOCITY (mph)	A HEIGHT	Min OD BASE	Min OD TOP	THICKNESS	ALTERNATIVE SECTION B LENGTH	BOTTOM	TOP	C	BC = BOLT CIRCLE	THICKNESS	ANCHOR BOLT SIZE	LUMINAIRE MAST ARM	SIGNAL MAST ARM	CIDH PILE Dia	DEPTH
18-4-100	4	100	17'-0"	16"	13 5/8"	0.2391" OR 0.25"				1'-11"	1'-9"	3"	2 1/4"ø x 42"	NONE	25'-0",	3'-6"	12'-0"
19-4-100			30'-0"		11 3/4"		10'-0"	13 1/8"	11 3/4"					6'-15' [12'-0"]	[30'-0"]		
19A-4-100			35'-0"		11"		15'-0"	13 1/8"	11"					6'-15' [15'-0"]			
23-4-100			17'-0"		13 5/8"									NONE			
24-4-100			30'-0"		11 3/4"	0.3125"	10'-0"	15 1/8"	13 3/4"					6'-15' [12'-0"]	35'-0"		
24A-4-100			35'-0"		11"		15'-0"	13 1/8"	11"					6'-15' [15'-0"]			
26-4-100			30'-0"		13 3/4"		10'-0"	15 1/8"	13 3/4"					6'-15' [12'-0"]	40'-0",		
26A-4-100			35'-0"	18"	13"		15'-0"	15 1/8"	13"	2'-1"	1'-11"			6'-15' [15'-0"]	[45'-0"]		13'-0"
27-4-100			17'-0"		15 5/8"									NONE			

[ ] INDICATES MAST ARM LENGTH TO BE USED UNLESS OTHERWISE NOTED ON PLANS.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

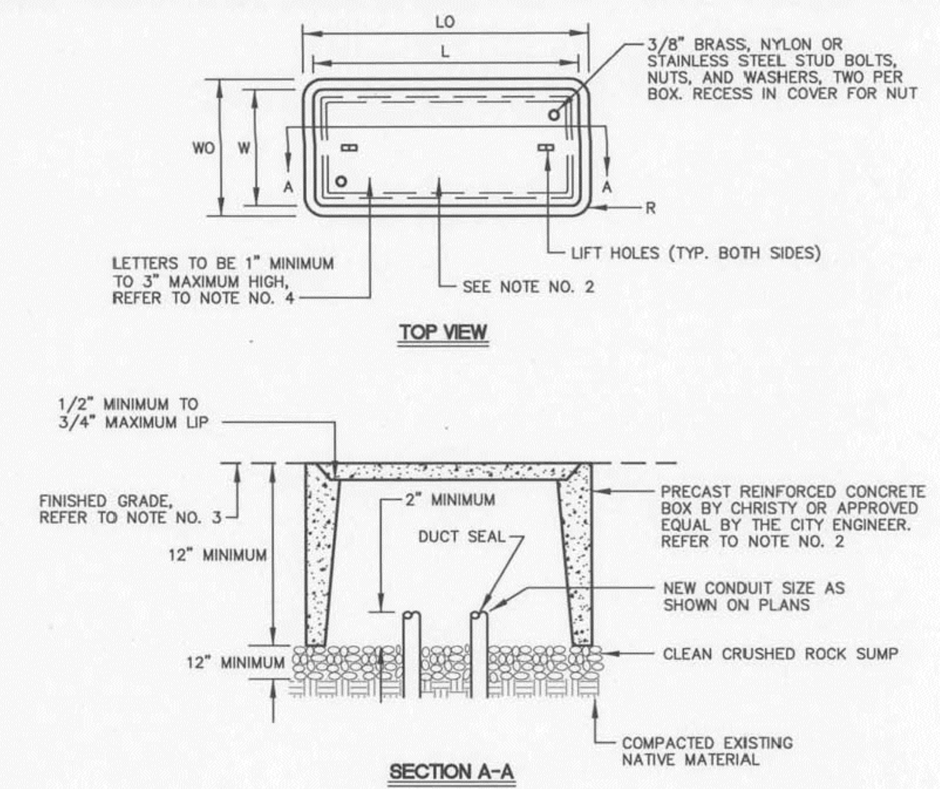
NO SCALE

ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, CASE 4 SIGNAL MAST ARM LOADING, WIND VELOCITY=100 MPH AND SIGNAL MAST ARM LENGTHS 25' TO 45')

RSP ES-7F DATED JULY 21, 2017 SUPERSEDES RSP ES-7F DATED JULY 15, 2016 AND STANDARD PLAN ES-7F DATED OCTOBER 30, 2015 - PAGE 461 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP ES-7F

2015 REVISED STANDARD PLAN RSP ES-7F



DIMENSION TABLE

PULLBOX	CONCRETE BOX: MIN. ** THICKNESS	MIN. DEPTH BOX AND EXTENSION	LO	WO	CONCRETE COVERS: L***	W***	R	EDGE THICKNESS	EDGE TAPER
NO. 3 1/2	1"	NO EXTENSION	20"	14"	15 3/8"	10 1/8"	1 1/8"	1 3/4"	1/8"
NO. 5	1"	22"	28"	18"	23 1/4"	13 3/4"	1 1/4"	2"	1/8"
NO. 6	1 1/2"	24"	36"	23"	30 5/8"	17 5/8"	1 1/4"	2"	1/8"

GENERAL NOTES

1. DRAWING NOT TO SCALE.
2. STEEL REINFORCING SHALL BE AS REGULARLY USED IN THE STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
3. TOP OF PULLBOX SHALL BE FLUSH WITH SURROUNDING GRADE OR TOP OF ADJACENT CURB, EXCEPT THAT IN UNPAVED AREAS WHERE PULLBOX IS NOT IMMEDIATELY ADJACENT TO, AND PROTECTED BY A CONCRETE FOUNDATION, POLE, OR OTHER PROTECTIVE CONSTRUCTION, THE BOX SHALL BE PLACED WITH ITS TOP 0.10' ABOVE SURROUNDING GRADE. WHERE PRACTICABLE, PULLBOXES SHOWN IN THE VICINITY OF CURBS SHALL BE PLACED ADJACENT TO THE BACK OF CURB, AND PULLBOXES SHOWN ADJACENT TO STANDARDS SHALL BE PLACED ON SIDE OF FOUNDATION FACING AWAY FROM TRAFFIC, UNLESS OTHERWISE NOTED ON PLANS.
4. DEPENDING ON APPLICATION PULLBOX COVERS SHALL BE LABELED: STREET LIGHT, TRAFFIC SIGNAL, IRRIGATION, ETC.
5. THE NOMINAL DIMENSIONS OF THE OPENING IN WHICH THE COVER SETS SHALL BE THE SAME AS THE DIMENSIONS EXCEPT THE LENGTH AND WIDTH DIMENSIONS SHALL BE 1/8" GREATER.
6. WHEN A PULLBOX IS INSTALLED IN THE SIDEWALK AREA, THE DEPTH OF THE PULLBOX SHALL BE ADJUSTED SO THAT THE TOP OF THE BOX IS FLUSH WITH THE TOP OF THE SIDEWALK.
7. TRAFFIC PULLBOX SHALL BE PROVIDED WITH A STEEL COVER AND SPECIAL CONCRETE FOOTING 3" MINIMUM CLASS "2" P.C.C. ON ALL SIDES OF BOX. STEEL COVER SHALL HAVE EMBOSSED NON-SKID PATTERN. GROUT BOTTOM OF BOXES WITH TRAFFIC LIDS AND PROVIDE DRAIN HOLE.

DEVELOPMENT & ENGINEERING SERVICES DEPARTMENT
ENGINEERING SERVICES DIVISION — CITY OF SALINAS

TITLE: **PULLBOX** — STANDARD PLAN **53**

DESIGNED BY: STAFF — CADD BY: STAFF — PROJECT MANAGER: FRANK A. AGUAYO, P.E.
DATE 10/21/2008
ROBERT C. RUSSELL, CITY ENGINEER
R.C.E. 42871, EXPIRES 3-31-2010

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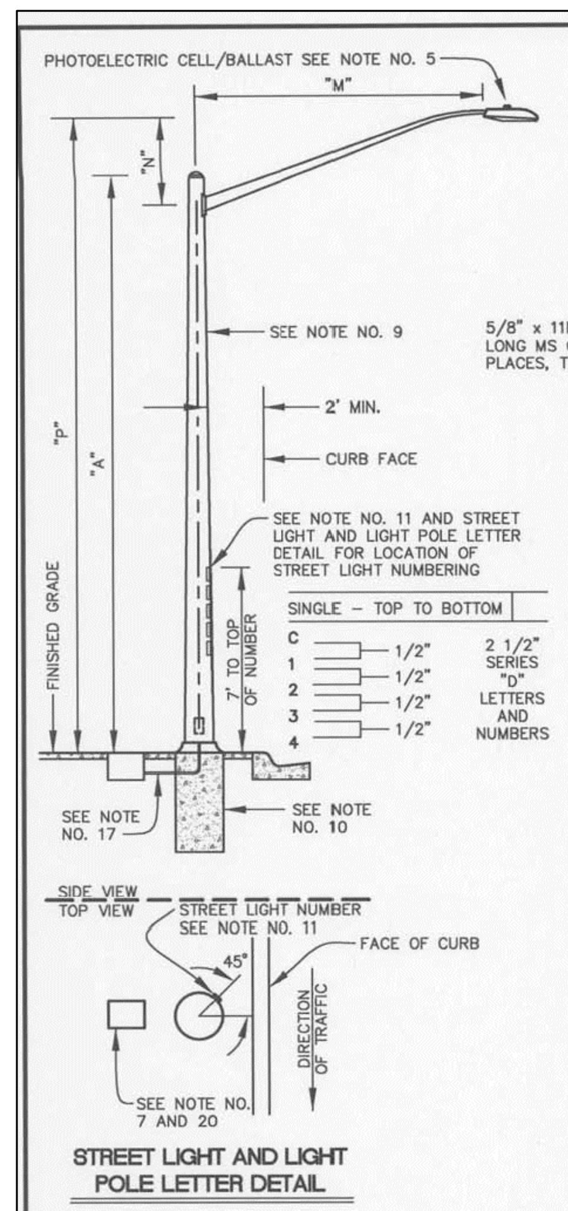
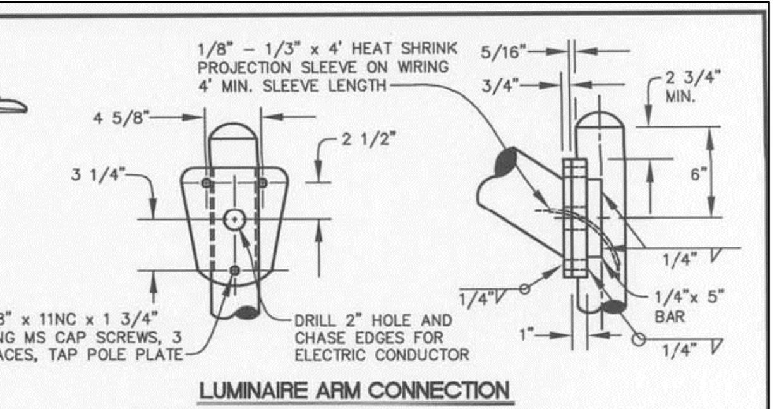




MAST ARM DATA

"M" PROJECTED LENGTH (MIN.)	"N" RISE	MIN. O.D. AT POLE	"P" MOUNTING HEIGHT TYPE 15
10' – 0"	3' – 3"±	3 7/8"	32' – 9"±
12' – 0"	4' – 3"±	3 7/8"	33' – 9"±
15' – 0"	4' – 9"±	4 1/4"	34' – 3"±

POLE DATA

POLE TYPE	"A" HEIGHT	MIN. O.D. BASE	MIN. O.D. TOP	THICKNESS
15	30' – 0"	8"	3 7/8"	0 .1196"

GENERAL NOTES

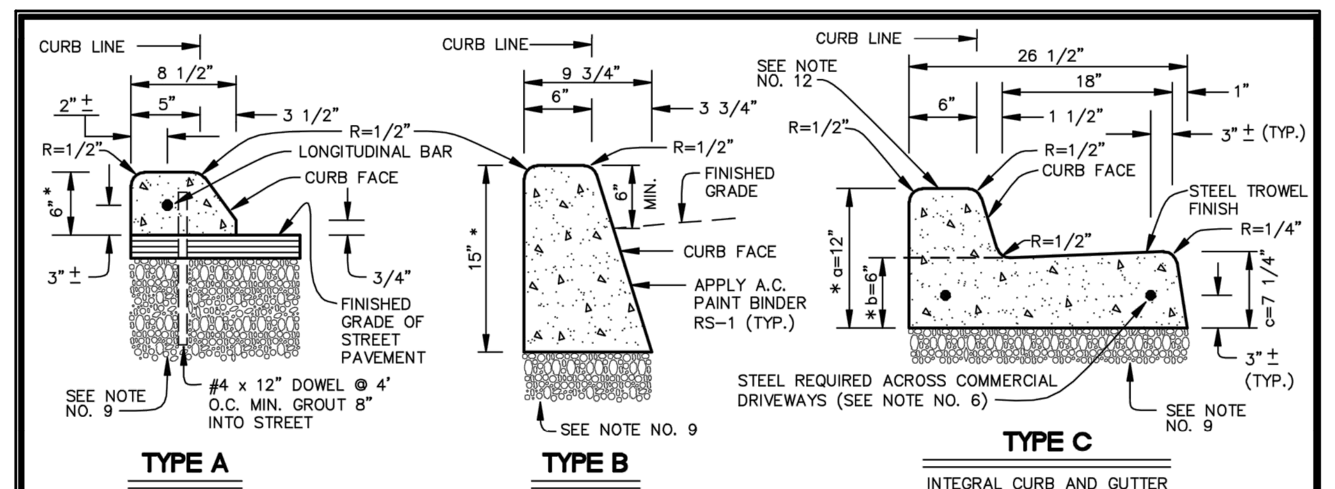
1. DRAWING NOT TO SCALE.
2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS, ELECTRIC CODE, AND P.U.C.'S G.O. 95A.
3. LUMINAIRES AT 4-WAY (NON-SIGNALIZED) STREET INTERSECTIONS SHALL HAVE TYPE II 4-WAY I.E.S. DISTRIBUTION. TYPE III I.E.S. DISTRIBUTION ON OTHER LOCATIONS UNLESS OTHERWISE NOTED ON PLANS.
4. POLES SHALL BE STEEL WITH HOT DIP GALVANIZED FINISH.
5. PHOTOELECTRIC CELLS SHALL BE INTEGRALLY MOUNTED ON THE HOOD OF THE LIGHTING FIXTURE (DARK TO LIGHT MODEL #D120-1.0-S)(OR APPROVED EQUAL BY THE CITY ENGINEER). STARTER/IGNITOR SHALL BE SSI (STARTER SYSTEMS INCORPORATED) * STARTER TRANSIENT SUPPRESSOR (OR APPROVED EQUAL BY THE CITY ENGINEER).
   * MODEL SCT03515 (35w TO 150w)
   * MODEL SCT1540 (150w TO 400w)
   * MODEL SCT40150 (400w TO 1500w)
6. ALTERNATE DESIGN POLES, MOUNTING HEIGHTS, AND LIGHTING FIXTURES, WHEN APPROVED BY THE CITY ENGINEER, MAY BE INSTALLED IN SUBDIVISIONS. SUCH INSTALLATIONS SHALL BE OF A UNIFORM DESIGN THROUGHOUT THE SUBDIVISION.
7. INSTALL NO. 3 1/2 PULLBOX AT BASE OF ALL EXISTING SERVICE POLE, VAULTS, AND STREET LIGHTS, UNLESS OTHERWISE SPECIFIED ON PLANS. USE NO. 5 PULLBOX IF 4 OR MORE CONDUITS CONNECT TO PULLBOX.
8. PROJECTION LENGTHS ARE 8' MIN. FOR RESIDENTIAL AND 10' MIN. FOR COMMERCIAL. THICKNESS SHALL BE MIN. 0.1196" (11 GA. 55,000 PSI).
9. STREET LIGHT POLE SHALL BE STATE TYPE 15, GALVANIZED: UNION METAL, AMERON, OR VALMONT (OR APPROVED EQUAL BY THE CITY ENGINEER).
10. ALL CONCRETE SHALL BE CLASS "3" PER CITY STANDARD SPECIFICATIONS.
11. CONTRACTOR SHALL INSTALL STREET LIGHT NUMBER (LETTER AND NUMBER) ON STREET LIGHT AND SHALL FACE PERPENDICULAR TO STREET IN RESIDENTIAL AREAS ONLY AND FACE ONCOMING TRAFFIC AT A 45° ANGLE ON OTHER STREETS. STREET NUMBERING LEGEND SHALL BE 2 1/2" HIGH, YELLOW WITH BLACK BACKGROUND REFLECTIVE VINYL, ADHESIVELY BACKED LETTER (PANDUIT PRL 250 YB-C) AND NUMBER (PANDUIT PRL 250 YB 0 TO 9)(OR APPROVED EQUAL BY THE CITY ENGINEER). STREET LIGHT NUMBERS TO BE ASSIGNED AFTER ALL STREET LIGHT FOUNDATIONS ARE POURED IN PLACE. THE CITY ENGINEER SHALL SUBMIT REQUEST TO PG&E FOR STREET LIGHT NUMBERS AT THAT TIME FOR ALL CITY FUNDED PROJECTS. PG&E SHALL RESPOND TO THE CITY ENGINEER WITHIN 10 WORKING DAYS.
12. FOR FUSE CONNECTOR SEE CITY STANDARD PLAN NO. 50.
13. FOR P.C.C. LIGHTING FOUNDATION SEE CITY STANDARD PLAN NO. 49.
14. FOR TYPICAL SERVICE POLE DETAIL, UNDERGROUND SERVICE, AND BASE DETAIL SEE CITY STANDARD PLAN NO. 51.
15. WATTAGE SHALL BE 150 WATTS FOR RESIDENTIAL AND 200 WATTS ON ALL OTHER ROADS, AND TRAFFIC SIGNAL POLES UNLESS OTHERWISE NOTED ON PLANS.
16. SPACING OF STREET LIGHTS SHALL BE DETERMINED BY THE CITY ENGINEER.
17. CONDUIT COVER: 18" MINIMUM IN SIDEWALK, PARKWAY STRIP, AND RAISED MEDIAN ISLAND. 30" MINIMUM UNDER ROADWAY OR PROPERTY EASEMENT.
18. LUMINARIES SHALL BE CUT-OFF LENSE (EXCEPT TYPE III 4-WAY LUMINAIRE) HIGH PRESSURE SODIUM VAPOR W/TYPE IV P.E. CELL AND REGULATOR TYPE BALLAST. WATTAGE AND 120V AS SHOWN ON PLANS. AMERICAN ELECTRIC, OR G.E. (OR APPROVED EQUAL BY THE CITY ENGINEER).
19. CONSTRUCTION OF STAB-IN POLES SHALL NOT BE PERMITTED.
20. ALL STREET LIGHT PULLBOX COVERS SHALL BE LABLED "STREET LIGHTING".

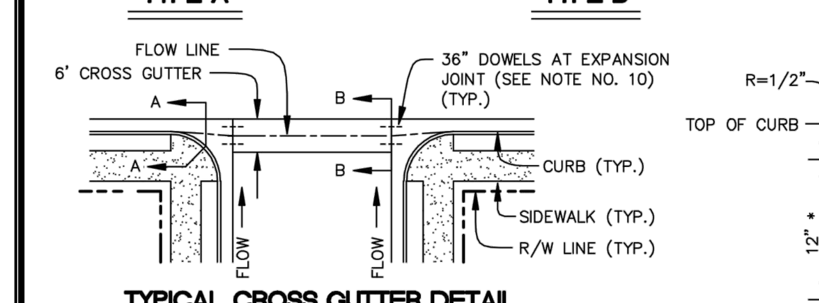
DEVELOPMENT & ENGINEERING SERVICES DEPARTMENT
ENGINEERING SERVICES DIVISION — CITY OF SALINAS

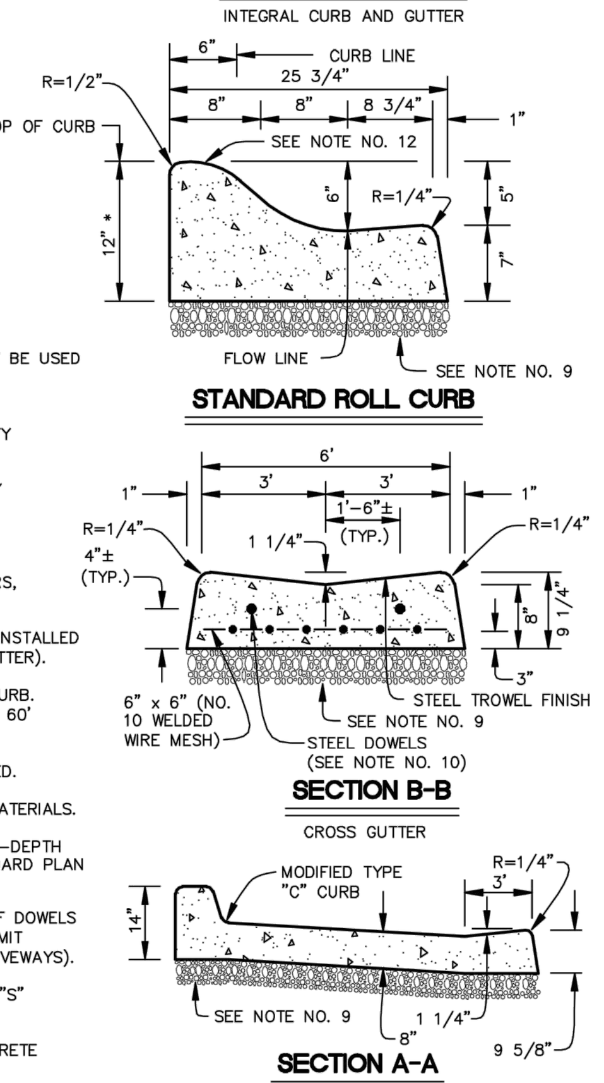
TITLE: **STREET LIGHT POLE AND NUMBER LOCATION** — STANDARD PLAN **52**

DESIGNED BY: STAFF — CADD BY: STAFF — PROJECT MANAGER: FRANK A. AGUAYO, P.E.
DATE 10/21/2008
ROBERT C. RUSSELL, CITY ENGINEER
R.C.E. 42871, EXPIRES 3-31-2010

J:\p\City of Salinas Standard Specs-Plans_2008 Edition\Plans\Std52(2008)Russell.dwg







GENERAL NOTES

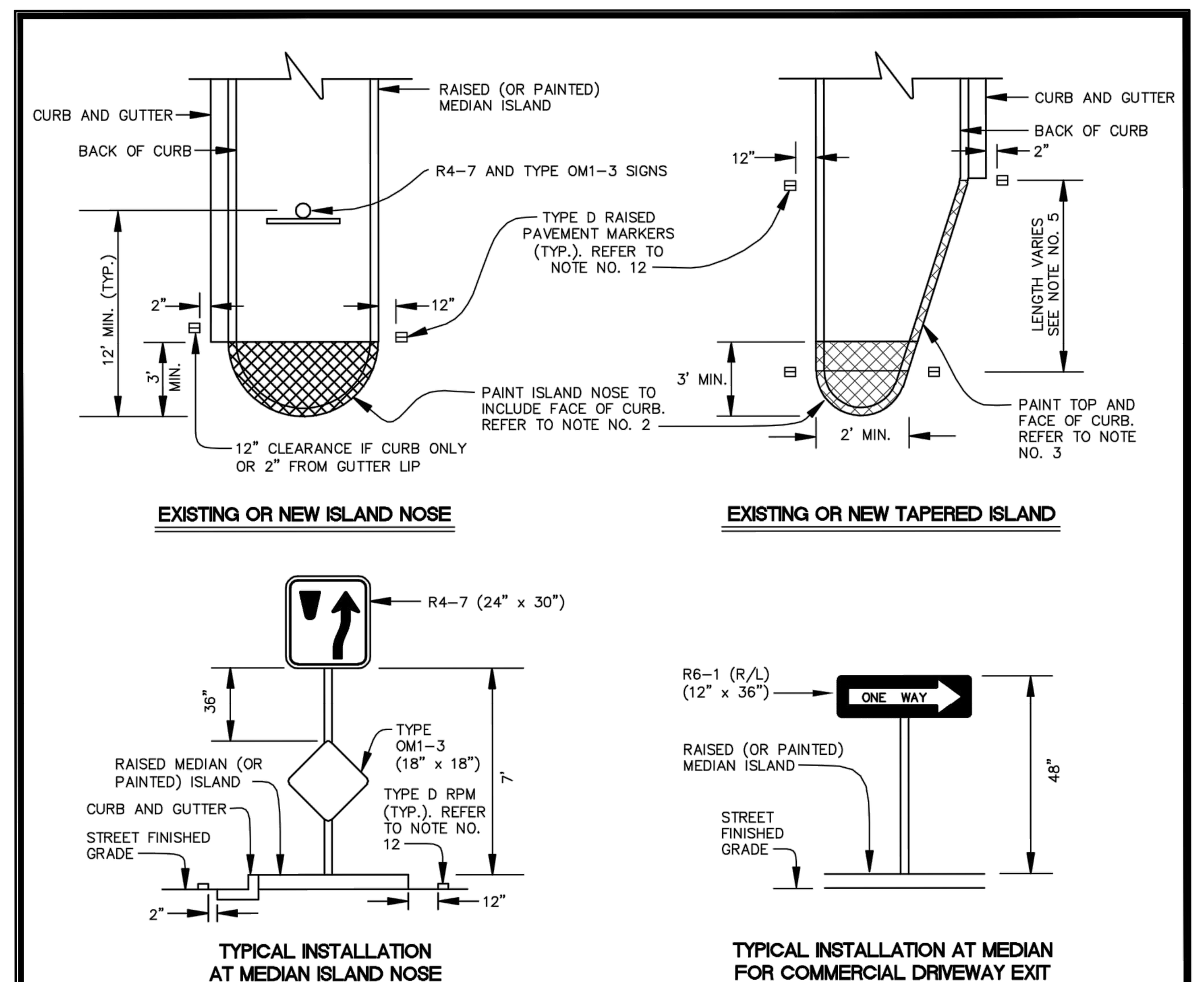
* NOMINAL DIMENSION BACK-FORM MAY BE USED EXCEPT IN INDUSTRIAL AREAS

1. DRAWING NOT TO SCALE.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 73 OF THE CITY STANDARD SPECIFICATIONS.
3. EXPANSION JOINTS SHALL BE SLIP DOWELED AT CURB RETURNS (SEE CITY STANDARD PLAN NO. 2).
4. TOP AND FRONT OF ALL CURBS SHALL BE FINE BROOM FINISHED.
5. CURB RETURNS SHALL BE TYPE "C" EXCEPT ADJACENT TO CROSS GUTTERS, WHERE MODIFIED TYPE "C" CURB AND APRON SHALL BE USED.
6. CURB AND GUTTER AT COMMERCIAL DRIVEWAYS SHALL HAVE 2 #4 BARS INSTALLED FOR THE WIDTH OF THE DRIVEWAY (HEAVY DUTY TYPE "C" CURB AND GUTTER).
7. INSTALL 3/8" EXPANSION JOINTS AT 20' INTERVALS MAX. ON TYPE "C" CURB. PROVIDE WEAKENED PLANE JOINTS AT 10' INTERVALS WITH EXPANSION AT 60' INTERVALS ON EXTRUDED CURB (SEE CITY STANDARD PLAN NO. 2).
8. CLASS "3" CONCRETE PER CITY STANDARD SPECIFICATIONS SHALL BE USED.
9. 6" MINIMUM CLASS 2 A.B. OR HIGHER TYPE SHALL BE USED FOR BASE MATERIALS.
10. CROSS GUTTERS SHALL HAVE TWO #4 x 36" LONG STEEL DOWELS AT MID-DEPTH CENTERED AT EXPANSION JOINT. FOR SLIP DOWEL DETAIL SEE CITY STANDARD PLAN NO. 2.
11. AN ADHESIVE APPROVED BY THE CITY ENGINEER MAY BE USED IN LIEU OF DOWELS IN TYPE "A" EXTRUDED CURB FOR PLACEMENT ON EXISTING PAVEMENT. OMIT HORIZONTAL STEEL IN EXTRUDED CURB (EXCEPT ACROSS COMMERCIAL DRIVEWAYS).
12. CONTRACTOR SHALL STAMP TOP OF CURB WITH THE LETTERS "G" (GAS), "S" (SEWER), AND/OR "W" (WATER) TO IDENTIFY UTILITY SERVICE LOCATIONS.
13. WITHIN INDUSTRIAL AREAS SUBJECT TO HEAVY TRUCK TRAFFIC, THE CONCRETE THICKNESS SHALL BE a=14", b=8", AND c=9 1/4".

DEVELOPMENT & ENGINEERING SERVICES DEPARTMENT
ENGINEERING SERVICES DIVISION — CITY OF SALINAS

TITLE: **CURBS AND GUTTERS** — STANDARD PLAN **1**

DESIGNED BY: STAFF — CADD BY: STAFF — PROJECT MANAGER: FRANK A. AGUAYO, P.E.
DATE 10/21/2008
ROBERT C. RUSSELL, CITY ENGINEER
R.C.E. 42871, EXPIRES 3-31-2010



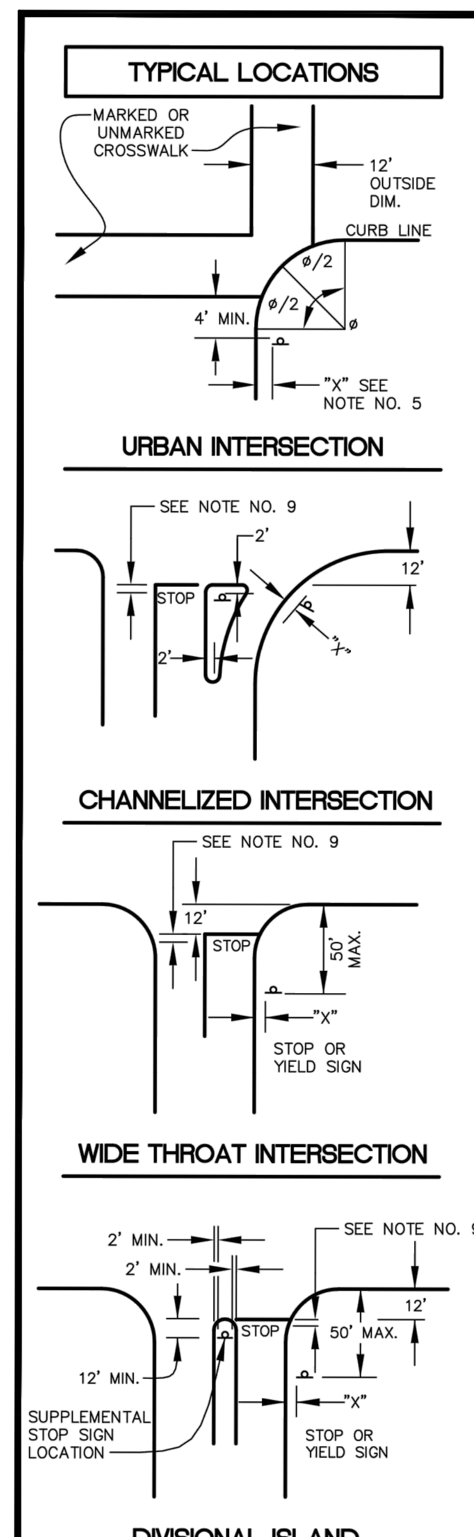
GENERAL NOTES

1. DRAWING NOT TO SCALE.
2. PAINT ISLAND NOSE (TO INCLUDE FACE AND TOP OF CURB) WITH YELLOW REFLECTIVE PAINT WITH GLASS BEADS. DO NOT PAINT BEYOND FULL WIDTH OF ISLAND.
3. FOR TAPER AT ISLAND, PAINT TOP AND FACE OF CURB WITH WHITE REFLECTIVE PAINT WITH GLASS BEADS. DO NOT PAINT BEYOND FULL WIDTH OF ISLAND.
4. FOR ADDITIONAL STRIPING AND RAISED PAVEMENT MARKING REQUIREMENTS AT RAISED MEDIAN ISLAND REFER TO DETAIL K AND PAINTED MEDIAN ISLAND REFER TO DETAIL G ON THE CITY STANDARD PLAN NO. 37A.
5. TAPER LENGTH ON THE TAPERED ISLAND SHALL BE DETERMINED BY THE CITY ENGINEER.
6. INSTALL TYPE D, TWO WAY YELLOW REFLECTIVE (HIGH INTENSITY) RAISED PAVEMENT MARKERS PER CITY STANDARD PLAN NO. 37A AND 37B.
7. TRAFFIC SIGNS SHALL BE CONSTRUCTED OF 0.08" THICK ALUMINUM ALLOY.
8. TRAFFIC SIGNS SHALL BE 3M DIAMOND GRADE CUBED REFLECTIVE SHEETING SERIES 4090 (OR APPROVED EQUAL BY THE CITY ENGINEER). THE REFLECTIVE SHEETING SHALL CONFORM WITH THE FEDERAL SPECIFICATIONS L-S300A.
9. R4-7 SIGN SHALL HAVE A WHITE BACKGROUND WITH A BLACK BORDER AND LEGENDS, WITH EVERYTHING REFLECTIVE.
10. TYPE OM1-3 SIGN SHALL BE YELLOW 3M DIAMOND GRADE CUBED REFLECTIVE SHEETING.
11. R6-1 SIGN SHALL HAVE A BLACK BACKGROUND WITH A WHITE ARROW AND BLACK LETTERS, WITH EVERYTHING REFLECTIVE.
12. REFER TO DETAIL G OR DETAIL K ON CITY STANDARD PLAN NO. 37A FOR DIMENSION OF RAISED PAVEMENT MARKERS FROM RAISED OR PAINTED MEDIAN ISLAND.

DEVELOPMENT & ENGINEERING SERVICES DEPARTMENT
ENGINEERING SERVICES DIVISION — CITY OF SALINAS

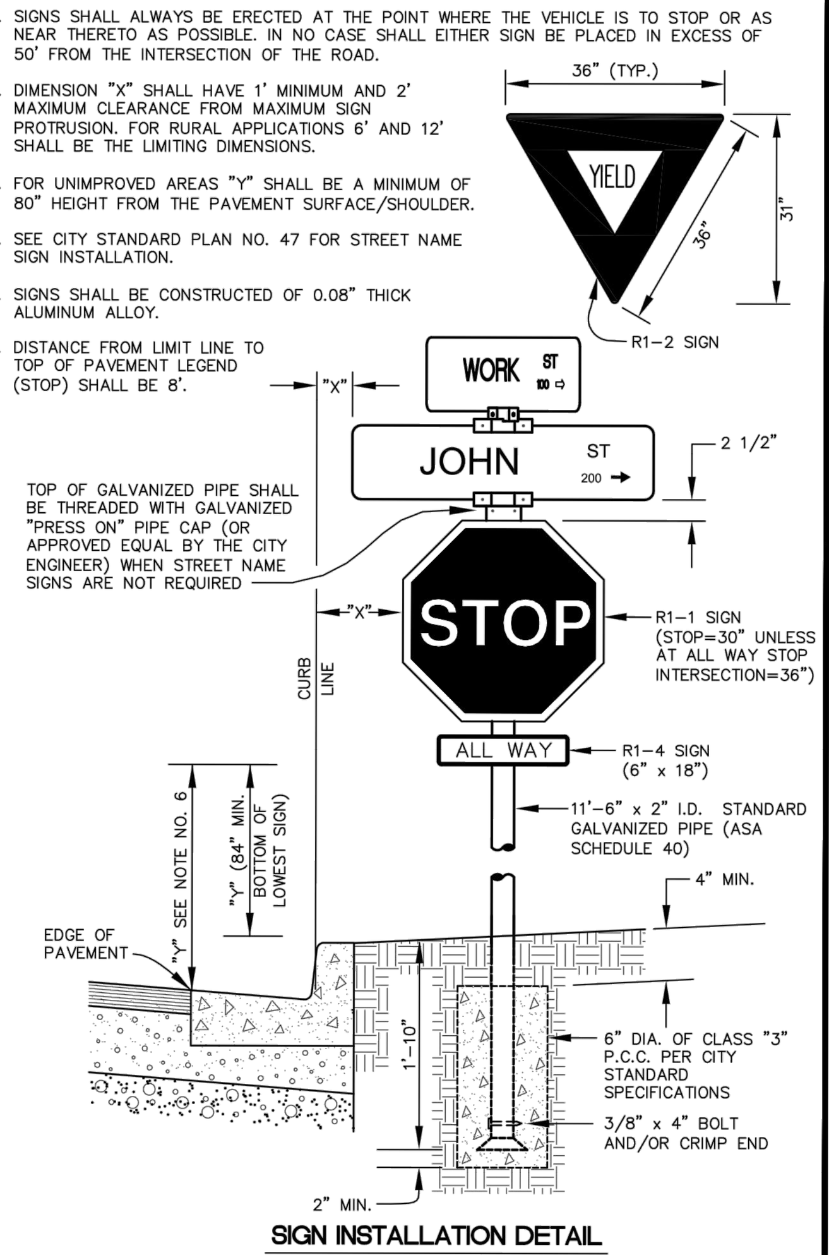
TITLE: **MEDIAN ISLAND DETAILS** — STANDARD PLAN **14**

DESIGNED BY: STAFF — CADD BY: STAFF — PROJECT MANAGER: FRANK A. AGUAYO, P.E.
DATE 10/21/2008
ROBERT C. RUSSELL, CITY ENGINEER
R.C.E. 42871, EXPIRES 3-31-2010



GENERAL NOTES

1. DRAWING NOT TO SCALE.
2. STOP SIGN SHALL BE MINIMUM 30", 36" FOR ALL-WAY WITH R1-4 (ALL WAY). THE SIGN SHALL HAVE 3M DIAMOND GRADE CUBED REFLECTIVE SHEETING SERIES 4090 (OR APPROVED EQUAL BY THE CITY ENGINEER). THE REFLECTIVE SHEETING SHALL CONFORM WITH FEDERAL SPECIFICATIONS L-S300A. THE BACKGROUND OF THE SIGN SHALL BE RED WITH A WHITE BORDER AND LEGEND AND ALL REFLECTIVE.
3. YIELD SIGN SHALL BE 36". THE SIGN SHALL HAVE 3M DIAMOND GRADE CUBED REFLECTIVE SHEETING SERIES 4090 (OR APPROVED EQUAL BY THE CITY ENGINEER). THE REFLECTIVE SHEETING SHALL CONFORM WITH FEDERAL SPECIFICATIONS L-S300-A. THE BACKGROUND OF THE SIGN SHALL BE RED, RED TEXT, WITHIN A WHITE TRIANGLE.
4. SIGNS SHALL ALWAYS BE ERECTED AT THE POINT WHERE THE VEHICLE IS TO STOP OR AS NEAR THERETO AS POSSIBLE. IN NO CASE SHALL EITHER SIGN BE PLACED IN EXCESS OF 50' FROM THE INTERSECTION OF THE ROAD.
5. DIMENSION "X" SHALL HAVE 1' MINIMUM AND 2' MAXIMUM CLEARANCE FROM MAXIMUM SIGN PROTRUSION. FOR RURAL APPLICATIONS 6' AND 12' SHALL BE THE LIMITING DIMENSIONS.
6. FOR UNIMPROVED AREAS "Y" SHALL BE A MINIMUM OF 80" HEIGHT FROM THE PAVEMENT SURFACE/SHOULDER.
7. SEE CITY STANDARD PLAN NO. 47 FOR STREET NAME SIGN INSTALLATION.
8. SIGNS SHALL BE CONSTRUCTED OF 0.08" THICK ALUMINUM ALLOY.
9. DISTANCE FROM LIMIT LINE TO TOP OF PAVEMENT LEGEND (STOP) SHALL BE 8'.



DEVELOPMENT & ENGINEERING SERVICES DEPARTMENT
ENGINEERING SERVICES DIVISION — CITY OF SALINAS

TITLE: **TRAFFIC SIGNS (STOP/YIELD)** — STANDARD PLAN **48**

DESIGNED BY: STAFF — CADD BY: STAFF — PROJECT MANAGER: FRANK A. AGUAYO, P.E.
DATE 10/21/2008
ROBERT C. RUSSELL, CITY ENGINEER
R.C.E. 42871, EXPIRES 3-31-2010

CITY OF SALINAS
PUBLIC WORKS DEPARTMENT

DESIGNED BY: VICTOR GUTIERREZ
CAD BY: VICTOR GUTIERREZ
CONSTRUCTION INSPECTION SUPERVISOR: JAMIE TUGEL, QSP, QSD, CPMSM
PROJECT ENGINEER / MANAGER: VICTOR GUTIERREZ

APPROVED FOR CONSTRUCTION:
DATE 8/16/2019
DAVID JACOBS, P.E., L.S.
PUBLIC WORKS DIRECTOR/CITY ENGINEER

REGISTERED PROFESSIONAL ENGINEER — DAVID JACOBS — NO. 48339 — CIVIL — STATE OF CALIFORNIA

REVIEWED BY:
DATE 8/16/2019
ANDREW EASTERLING, P.E., T.E.
TRAFFIC ENGINEER

REGISTERED PROFESSIONAL ENGINEER — ANDREW EASTERLING — NO. 2824 — TRAFFIC — STATE OF CALIFORNIA

DATE	REVISION	APP.

NORTH MAIN STREET TRAFFIC SIGNAL IMPROVEMENTS

DETAILS

PROJ. NO(S) 9218 — SHEET NO. 06
FILE NO. 8219 — OF 7

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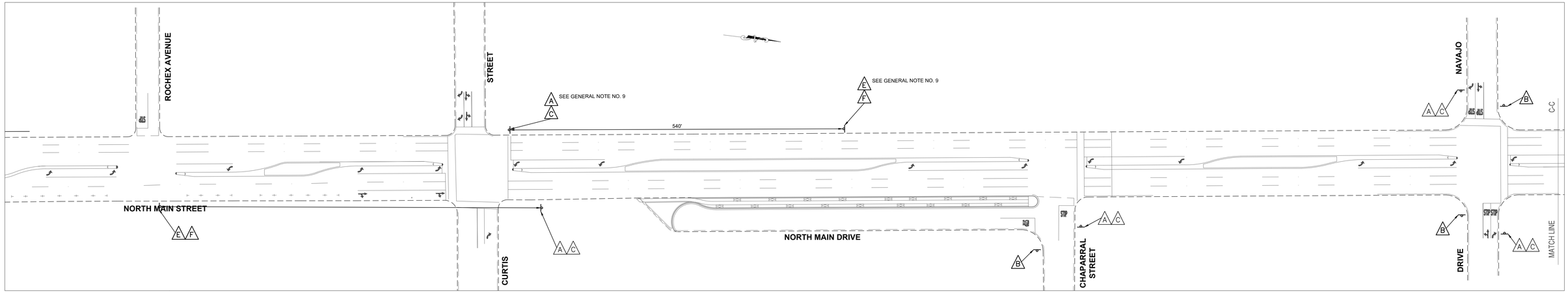

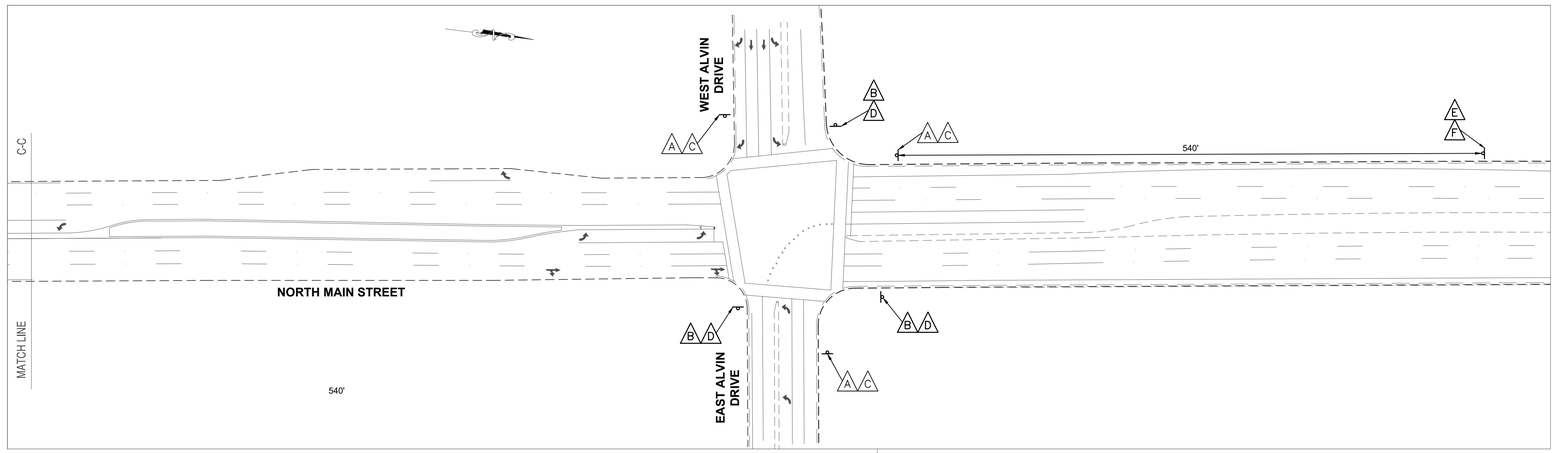

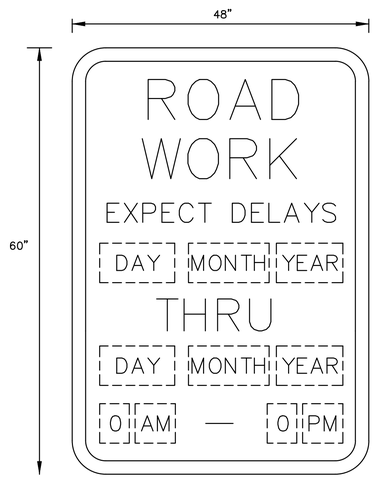

DETAIL "A"

SIGN NOTES

1. DRAWING NOT TO SCALE.
2. SIGN SHALL BE CONSTRUCTED OF O.08" THICK ALUMINUM ALLOY.
3. TRAFFIC SIGN SHALL BE 3-M DIAMOND GRADE CUBED REFLECTIVE SHEETING SERIES 4090 (OR EQUAL APPROVED BY THE CITY ENGINEER). THE REFLECTIVE SHEETING SHALL CONFORM WITH THE FEDERAL SPECIFICATIONS L-S300A.
4. THE BACKGROUND OF THE CUSTOM SIGN SHALL BE ORANGE WITH A BLACK BORDER AND WORDS ALL REFLECTIVE (UNLESS NOTED OTHERWISE).
5. ALL WORDS ON THE SIGN SHALL BE 3" HIGH MINIMUM (TYP.).

CONSTRUCTION AREA SIGN LEGEND

A. FURNISH AND INSTALL W20-1 (ROAD WORK AHEAD) SIGN AS SHOWN ON THE PLAN (48" x 48" WITH 4" x 6" SIGN POST).

B. FURNISH AND INSTALL G20-2 (END ROAD WORK) SIGN AS SHOWN ON THE PLAN (48" x 24" WITH 4" x 6" SIGN POST).

C. FURNISH AND INSTALL C17 (ROAD WORK SPEED LIMIT 25) SIGN AS SHOWN ON THE PLAN (24" x 24") MOUNTED WITH W20-1 SIGN.

D. FURNISH AND INSTALL C17 (END 25 SPEED LIMIT) SIGN AS SHOWN ON THE PLAN 24" x 24") MOUNTED WITH G20-2 SIGN.

E. CUSTOM SIGN "ROAD WORK" WITH DATES. REFER TO DETAIL "A" ON THIS SHEET.

F. CONTRACTOR SHALL INSTALL CITY FURNISHED FUNDING SIGNS. CONTRACTOR TO SUPPLY POSTS AND HARDWARE.

GENERAL NOTES

1. THE CONTRACTOR SHALL INSTALL SIGNAGE PER THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 2006 EDITION", 2004 CALIFORNIA SUPPLEMENT, THESE PLANS, AND THE SPECIAL PROVISIONS.
2. SIGNS FOR TRAFFIC CONTROL SHALL BE IN PLACE PRIOR TO BEGINNING OF CONSTRUCTION PER THE PROVISIONS IN SECTION 5-1.09 "LEGAL RELATIONS, RESPONSIBILITIES, AND MAINTAINING TRAFFIC" AND SECTION 10-1.28 "TRAFFIC CONTROL" OF THE SPECIAL PROVISIONS.
3. THE CONTRACTOR SHALL INSTALL THE CUSTOM "ROAD WORK" SIGN (DETAIL "A") AND THE CITY FURNISHED FUNDING SIGN 2 WEEKS PRIOR TO BEGINNING OF WORK.
4. REFER TO CITY OF SALINAS STANDARD PLAN NO. 45 FOR CHANNELIZING DEVICES.
5. REFER TO CITY OF SALINAS STANDARD PLAN NO. 46 FOR TYPICAL LANE CLOSURE.
6. THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION SIGNAGE WITHOUT OBSTRUCTING ANY EXISTING AND NEW SIGNAGE.
7. IF ADDITIVE ALTERNATE NO. 1 IS AWARDED CONTRACTOR SHALL NOT INSTALL THESE SIGNS AS SHOWN ON THE PLAN.
8. IF ADDITIVE ALTERNATE NO. 2 IS AWARDED CONTRACTOR SHALL NOT INSTALL THESE SIGNS AS SHOWN ON THE PLAN.
9. IF ADDITIVE ALTERNATE NO. 3 IS AWARDED CONTRACTOR SHALL NOT INSTALL THESE SIGNS AS SHOWN ON THE PLAN.

CITY OF SALINAS
PUBLIC WORKS DEPARTMENT

DESIGNED BY: VICTOR GUTIERREZ
CAD BY: VICTOR GUTIERREZ
CONSTRUCTION INSPECTION SUPERVISOR: JAMIE TUGEL, QSP, QSD, CPMSM
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DATE	REVISION	APP.

NORTH MAIN STREET TRAFFIC SIGNAL IMPROVEMENTS

TRAFFIC CONTROL PLAN

PROJ. NO(S): 9218
SHEET NO.: 7
FILE NO.: 8219
OF: 7

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Plotted By: VICTOR GUTIERREZ
Plot Date: 11/7/2019 11:46 AM