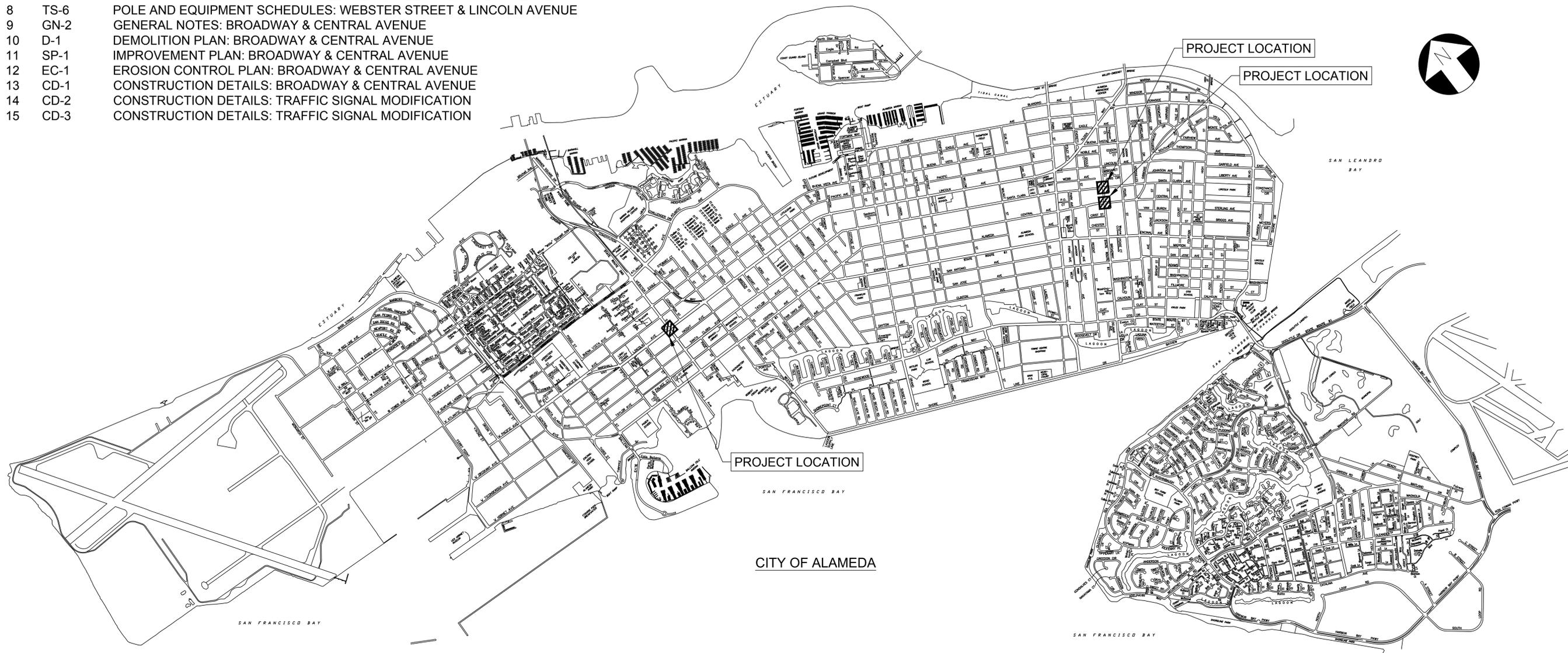


CITY OF ALAMEDA CALIFORNIA

TRAFFIC SIGNAL UPGRADES PROJECT PROJECT NO. 07-24-18

SHEET INDEX

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4	TS-2	POLE AND EQUIPMENT SCHEDULES: BROADWAY & CENTRAL AVENUE
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14	CD-2	CONSTRUCTION DETAILS: TRAFFIC SIGNAL MODIFICATION
15	CD-3	CONSTRUCTION DETAILS: TRAFFIC SIGNAL MODIFICATION



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	PLANS PREPARED BY: 1999 Harrison St, Suite 1075 Oakland, CA 94612 Phone: (510) 555-4007	CITY OF ALAMEDA CALIFORNIA TRANSPORTATION DEPARTMENT		APPROVED BY _____ CITY ENGINEER
		TRAFFIC SIGNAL UPGRADES PROJECT		DATE 12/9/2025
		COVER SHEET		SHEET 1 OF 15 CITY PROJECT NO. 07-24-18 DRAWN BY M. WAGES DATE 09/2025 SCALE N/A

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE CURRENT CITY OF ALAMEDA SPECIFICATIONS & STANDARD PLANS AND CALTRANS STANDARD PLANS (2023). CITY STANDARD PLANS & SPECIFICATIONS ARE AVAILABLE ON THE CITY'S WEBSITE WWW.ALAMEDACA.GOV.
- EXISTING UTILITIES ARE SHOWN FROM AVAILABLE RECORDS. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THESE UTILITIES. CONTRACTOR SHALL NOT PERFORM ANY EXCAVATION UNTIL ALL UTILITY AGENCIES HAVE BEEN NOTIFIED AND HAVE BEEN GIVEN THE OPPORTUNITY TO MARK THEIR UNDERGROUND FACILITIES IN THE FIELD. CONTRACTOR SHALL CALL U.S.A. AT 811 OR (800) 227-2600 AT LEAST 2 WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION OF PROJECT. CONTRACTOR SHALL POTHOLE AND DETERMINE THE DEPTH OF ALL UTILITIES PRIOR CONSTRUCTION.
- CONTRACTOR SHALL LOCATE AND PRESERVE ALL FACILITIES INCLUDING SEWER, WATER, GAS, IRRIGATION, POWER, STREET LIGHTS, TELEPHONE, SURVEY MARKERS, AND OTHERS WHICH MAY BE IN AREA OF CONSTRUCTION. NOT ALL LATERALS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL LOCATE AND MARK LATERALS PRIOR TO CONSTRUCTION.
- IT IS INTENDED THAT THESE PLANS REQUIRE ALL LABOR AND MATERIALS NECESSARY FOR COMPLETION OF WORK IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN PLANS OR SPECIFICATIONS. ENGINEER'S INTERPRETATION OF CORRECTION THEREOF SHALL BE FINAL AND CONCLUSIVE. WHERE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT THE ENGINEER SHALL DETERMINE THE BEST GENERAL PRACTICE TO BE USED AND ONLY MATERIALS AND WORKMANSHIP OF FIRST QUALITY SHALL BE USED.
- CONTRACTOR SHALL COMPLY WITH CITY'S DUST CONTROL ORDINANCE DURING ALL TIMES AT THEIR OWN EXPENSE.
- CONTRACTOR SHALL, AT ALL TIMES, KEEP WORK AREA IN A NEAT AND SAFE CONDITION. UPON COMPLETION OF ANY PORTION OF WORK, CONTRACTOR SHALL PROMPTLY REMOVE ALL ITS EQUIPMENT AND SURPLUS MATERIALS, UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS. CONTRACTOR SHALL, AT OWN EXPENSE, DISPOSE OF ALL RUBBISH, UNUSED MATERIALS AND OTHER EQUIPMENT BELONGING TO HIM OR USED IN PERFORMANCE OF WORK, TO THE SATISFACTION OF THE ENGINEER. AFTER COMPLETION OF THE PROJECT, CONTRACTOR SHALL LEAVE THE PROJECT SITE IN EQUAL OR BETTER CONDITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ADJUSTMENT OF ALL EXISTING UTILITIES (EXCEPT THOSE UTILITIES SPECIFICALLY IDENTIFIED IN THE PLANS TO BE RELOCATED BY OTHERS) WITH THE RESPECTIVE UTILITY COMPANIES AT NO ADDITIONAL COST.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITION, PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO WORK DURING THE CONSTRUCTION OF PROJECT.
- CONTRACTOR SHALL NOT CLOSE OR DETOUR ANY TRAFFIC IN ANY MANNER UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS. ANY PROPOSAL FOR A LANE CLOSURE OR CLOSURE OF A CITY STREET SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL IN WRITING. ACCESS TO NEIGHBORING PROPERTIES SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
- PROPER TRAFFIC CONTROL SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA MUTCD. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO CITY FOR REVIEW AT PRE-CONSTRUCTION MEETING BEFORE STARTING ANY WORK.
- CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS WITH PEDESTRIAN DETOURS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT PROPOSED PEDESTRIAN DETOUR PLANS IN CONJUNCTION WITH TRAFFIC CONTROL PLANS TO CITY FOR REVIEW AT PRE-CONSTRUCTION MEETING BEFORE STARTING ANY WORK.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING SEWER AND WATER SERVICE TO PROPERTIES WITHIN CONSTRUCTION AREA AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT IN PLACE ALL IRRIGATION EQUIPMENT WITHIN THE LIMITS OF WORK.
- CONTRACTOR SHALL REPAIR AND OR REPLACE ALL LANDSCAPING, IRRIGATION SYSTEM, SIDEWALKS, CURB, GUTTER, ETC. LOCATED BEYOND THE LIMITS OF WORK SHOWN ON THE PLANS, DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
- LOCATIONS OF CONTROLLER, CONDUITS, PULL BOXES, AND OTHER EQUIPMENT ARE APPROXIMATE AND WILL BE LOCATED IN THE FIELD AS DIRECTED BY THE ENGINEER.

APPLICABLE CALTRANS STANDARD PLANS (DATED 2023):

A88A	ES-2D	ES-4D	ES-7B	ES-7O
ES-1A	ES-4A	ES-4E	ES-7D	ES-7R
ES-1B	ES-4B	ES-5C	ES-7M	ES-8A
ES-1C	ES-4C	ES-7A	ES-7N	

CONSTRUCTION NOTES:

- INSTALL CITY-FURNISHED TYPE P-44 CONTROLLER CABINET AND CONTROLLER ON NEW FOUNDATION. SEE DETAIL C ON SHEET CD-3.
- REPLACE EXISTING PULL BOX WITH NEW PULL BOX, SIZE PER PLAN.
- FURNISH AND INSTALL APS CONTROLLER IN NEW CONTROLLER CABINET.
- FURNISH AND INSTALL NEW TYPE III-AF SERVICE PEDESTAL ON NEW FOUNDATION PER CALTRANS STANDARD PLAN ES-2D. INCLUDE ITEMS 1-8, 10, 13-14 (SPARES), 15-17, 20.
- INSTALL CITY-FURNISHED VIDEO DETECTION CAMERA ON SIGNAL POLE MAST. SEE DETAIL A ON SHEET CD-2. ZONES TO BE PROGRAMMED BY CAMERA MANUFACTURER.
- INSTALL CITY-FURNISHED VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM. SEE DETAIL A ON SHEET CD-2. ZONES TO BE PROGRAMMED BY CAMERA MANUFACTURER.
- FURNISH AND INSTALL GPS EVP/TSP ANTENNA ON SIGNAL POLE MAST. SEE DETAIL B ON SHEET CD-2.
- FURNISH AND INSTALL MULTIMODE PHASE SELECTOR IN NEW CONTROLLER CABINET.
- CONSTRUCT MODIFIED CASE A PEDESTRIAN RAMP. SEE SHEET SP-1 FOR FURTHER DETAIL.
- CONTRACTOR TO COORDINATE WITH AMP FOR SERVICE CONDUCTOR INSTALLATION AND CONNECTIONS TO SERVICE POINT AND SERVICE PEDESTAL.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- FA FOUNDATION TO BE ABANDONED.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.

LEGEND

	PROPOSED 12" LEFT TURN ARROW HEAD		EXISTING 8" OR 12" LEFT TURN ARROW HEAD
	PROPOSED 12" SIGNAL HEAD		EXISTING 8" OR 12" SIGNAL HEAD
	PROPOSED VIDEO DETECTION CAMERA		EXISTING VIDEO DETECTION CAMERA
	PROPOSED COUNTDOWN PEDESTRIAN HEAD		EXISTING PEDESTRIAN HEAD
	PROPOSED TYPE P CABINET		EXISTING TYPE P CABINET
	PROPOSED SIGNAL MAST ARM AND POLE W/ LUMINAIRE		EXISTING SIGNAL MAST ARM AND POLE W/ LUMINAIRE
	PROPOSED TYPE III-AF SERVICE PEDESTAL		EXISTING TYPE III-AF SERVICE PEDESTAL
	PROPOSED PULL BOX (SIZE NOTED)		EXISTING PULL BOX (SIZE NOTED)
	PROPOSED CONDUIT		EXISTING CONDUIT
	PROPOSED GPS EVP/TSP ANTENNA		EXISTING GPS EVP/TSP ANTENNA
	PROPOSED VIDEO DETECTION ZONE		EXISTING WIRELESS RADIO DEVICE
			EXISTING PEDESTRIAN PUSH BUTTON POST
			EXISTING GAS UTILITY LINE
			EXISTING SEWER UTILITY LINE
			EXISTING STORM DRAIN UTILITY LINE
			EXISTING WATER UTILITY LINE
			EXISTING TELEPHONE UTILITY LINE

ABBREVIATIONS

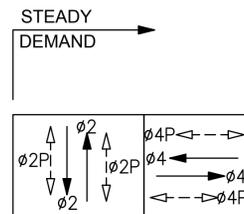
AMP	ALAMEDA MUNICIPAL POWER
APS	ACCESSIBLE PEDESTRIAN SIGNAL
AWG	AMERICAN WIRE GAUGE
BCR	BEGINNING OF CURB RETURN
ECR	END OF CURB RETURN
EVP	EMERGENCY VEHICLE PREEMPTION
EQ	EQUIVALENT
GND	GROUND
GPS	GLOBAL POSITIONING SYSTEM
MA	MAST ARM
PPB	PEDESTRIAN PUSH BUTTON
TSP	TRANSIT SIGNAL PRIORITY

	PLANS PREPARED BY: 	CITY OF ALAMEDA CALIFORNIA TRANSPORTATION DEPARTMENT	APPROVED BY _____ CITY ENGINEER
		TRAFFIC SIGNAL UPGRADES PROJECT GENERAL NOTES, LEGEND, ABBREVIATIONS	DATE 12/9/2025 CITY PROJECT NO. _____ SHEET 2 OF 15 CITY PROJECT NO. 07-24-18 DRAWING NO. GN-1
NO. _____ DESIGNED K. RAFIEE DRAWN K. RAFIEE CHECKED M. WAGES DATE 09/2025 SCALE N/A	1999 Harrison St., Suite 1875 Oakland, CA 94612 Phone: (510) 551-8007		

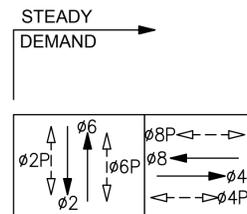
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CONSTRUCTION NOTES:

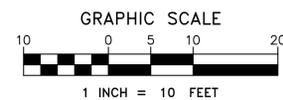
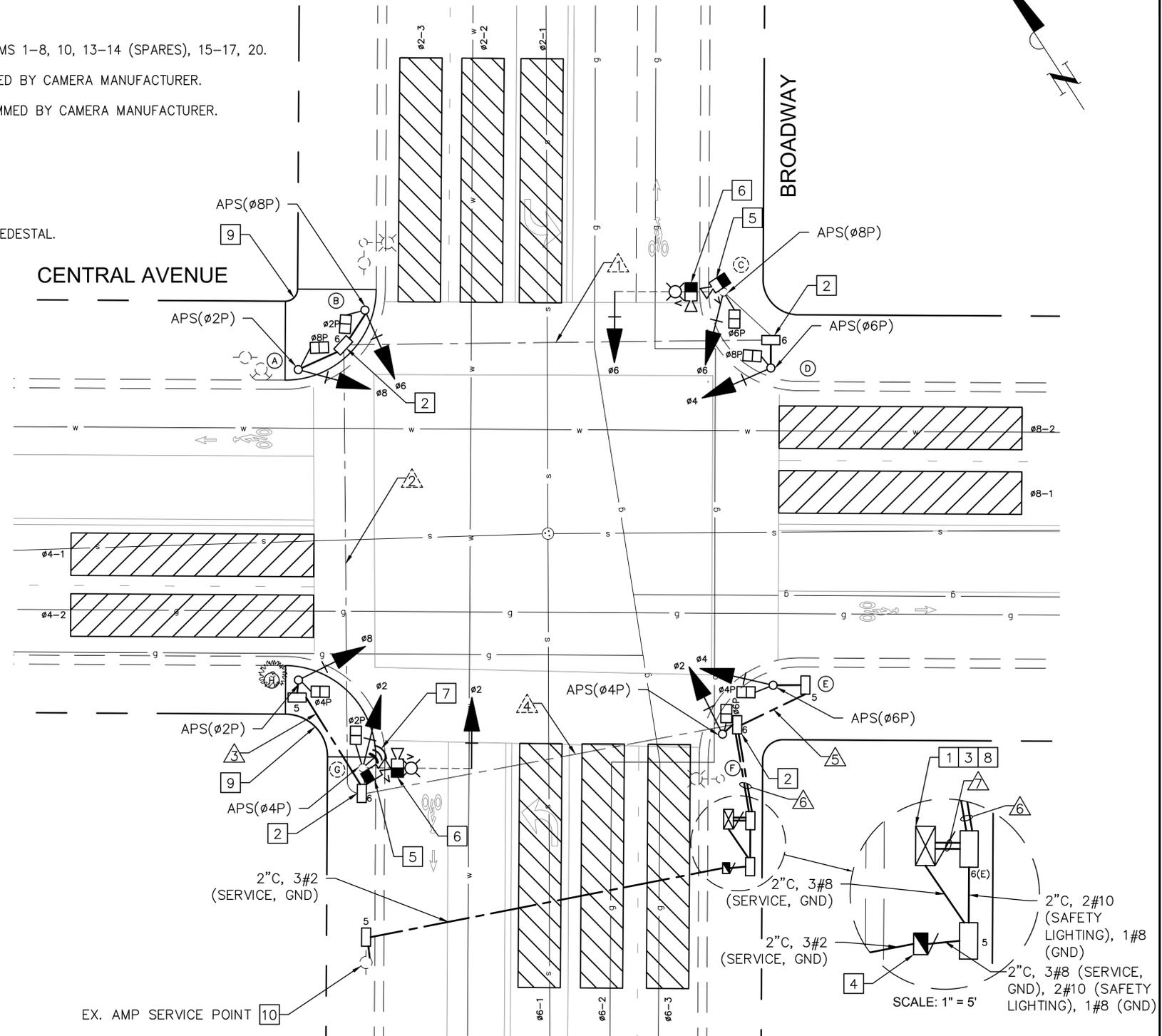
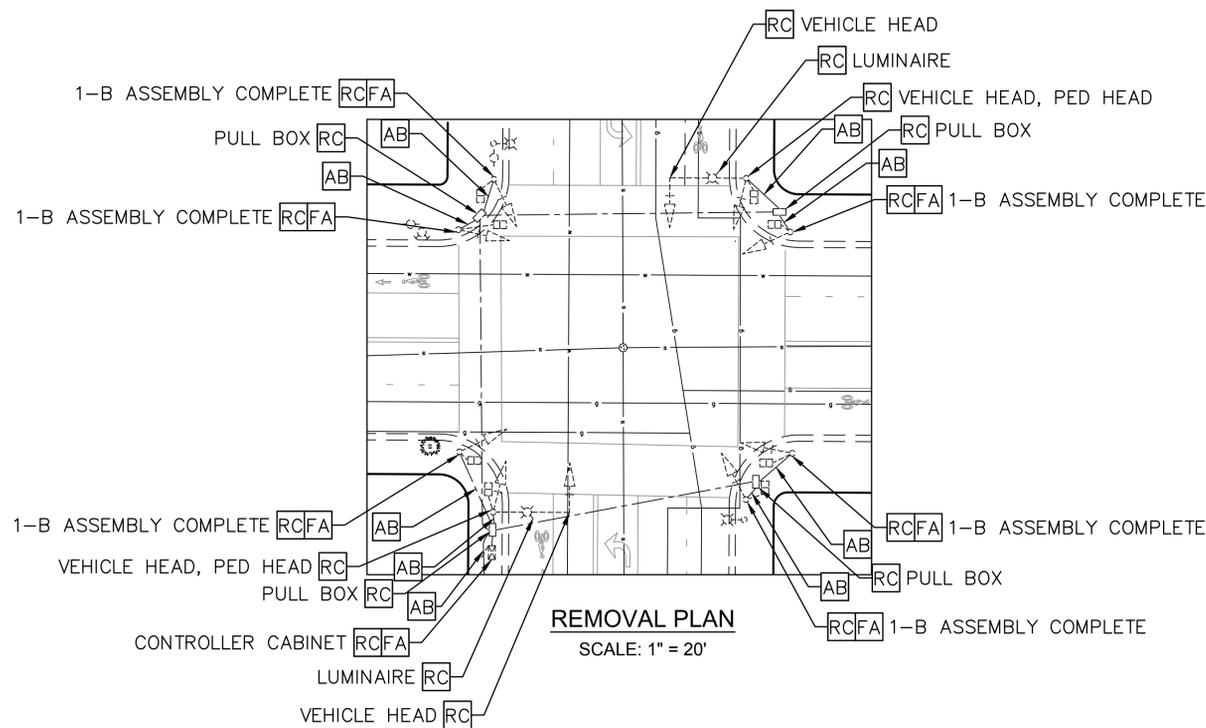
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EXISTING PHASE SEQUENCE



PROPOSED PHASE SEQUENCE



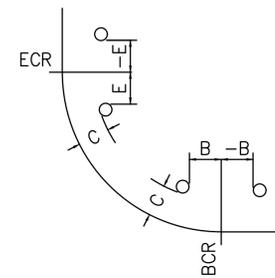
	PLANS PREPARED BY:		CITY OF ALAMEDA CALIFORNIA TRANSPORTATION DEPARTMENT		APPROVED BY:														
	DESIGNED: K. RAFIEE		TRAFFIC SIGNAL UPGRADES PROJECT		CITY ENGINEER														
	DRAWN: K. RAFIEE		TRAFFIC SIGNAL MODIFICATION BROADWAY & CENTRAL AVE		DATE: 12/9/2025														
	CHECKED: M. WAGES		<table border="1"> <tr> <td>NO.</td> <td>REVISED</td> <td>BY</td> <td>APP.</td> </tr> <tr> <td>09/2025</td> <td>1"</td> <td></td> <td>10'</td> </tr> </table>		NO.	REVISED	BY	APP.	09/2025	1"		10'	<table border="1"> <tr> <td>SHEET</td> <td>3</td> <td>OF</td> <td>15</td> </tr> <tr> <td>CITY PROJECT NO.</td> <td>07-24-18</td> <td>DATE</td> <td>TS-1</td> </tr> </table>	SHEET	3	OF	15	CITY PROJECT NO.	07-24-18
NO.	REVISED	BY	APP.																
09/2025	1"		10'																
SHEET	3	OF	15																
CITY PROJECT NO.	07-24-18	DATE	TS-1																

CONDUCTOR SCHEDULE								
AWG	CIRCUIT	RUN						
		1	2	3	4	5	6	7
#14	Ø2	-	-	-	3	-	3	3
	Ø4	3	3	-	3	3	6	6
	Ø6	3	3	-	3	-	3	3
	Ø8	-	3	3	6	-	6	6
	Ø2P	-	2	-	2	-	2	2
	Ø4P	-	-	2	2	2	4	4
	Ø6P	2	2	-	2	-	2	2
	Ø8P	2	2	-	2	-	2	2
	Ø2P PPB	-	2	2	4	-	4	4
	Ø4P PPB	-	-	-	2	-	2	2
	Ø6P PPB	2	2	-	2	2	4	4
	Ø8P PPB	2	2	-	2	-	2	2
	PPB COMMON	2	3	1	4	1	4	4
	SPARES	3	3	3	6	3	9	9
TOTAL	19	27	11	43	11	53	53	
#10	SAFETY LIGHTING	2	2	-	2	-	2	-
	SIGNAL COMMON	2	3	1	5	1	5	5
	TOTAL	4	5	1	7	1	7	5
VIDEO DETECTION CABLE		2	2	-	4	-	4	4
GPS ANTENNA CABLE		-	-	-	1	-	1	1
CONDUIT SIZE		3"(E)	3"(E)	2"	3"(E)	2"	2-4"	2-4"
% FILL		9	12	8	20	8	7	6

ALL CONDUIT AND CONDUCTORS ARE NEW UNLESS OTHERWISE NOTED (E-EXISTING)

POLE AND EQUIPMENT SCHEDULE												
POLE DATA		SIGNAL MA	LUMINAIRE		SIGNAL MOUNTINGS			APS		POLE LOCATION		
NO.	TYPE		MA	WATTS(EQ)	VEHICULAR	M.A.	PEDESTRIAN	PHASE	ARROW	E	B	C
(A)	1-B	-	-	-	TV-1-T	-	SP-1-T	2	LEFT	2'	-	2.5'
(B)	1-B	-	-	-	TV-1-T	-	SP-1-T	8	RIGHT	-	3.5'	2.5'
(C)	WR9-288-18-2 (E)	18' (E)	8' (E)	106W	SV-1-T	MAS	SP-1-T	8	LEFT	EXISTING		
(D)	1-B	-	-	-	TV-1-T	-	SP-1-T	6	RIGHT	-	4.5'	2.5'
(E)	1-B	-	-	-	TV-1-T	-	SP-1-T	6	LEFT	4.5'	-	2.5'
(F)	1-B	-	-	-	TV-1-T	-	SP-1-T	4	RIGHT	-	4'	2.5'
(G)	WR9-288-18-2 (E)	18' (E)	8' (E)	106W	SV-1-T	MAS	SP-1-T	4	LEFT	EXISTING		
(H)	1-B	-	-	-	TV-1-T	-	SP-1-T	2	RIGHT	-	2'	2.5'

ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED. EXISTING EQUIPMENT IS DENOTED WITH (E).

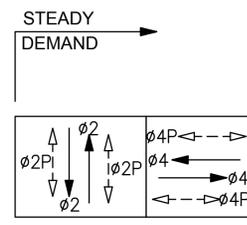


POLE PLACEMENT

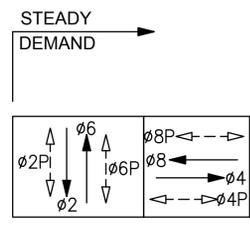
	PLANS PREPARED BY: <small>1999 Harrison St., Suite 1075 Oakland, CA 94612 Phone: (510) 551-8007</small>	NO. _____ REVISED _____ BY _____ APP. _____	CITY OF ALAMEDA CALIFORNIA TRANSPORTATION DEPARTMENT	APPROVED BY _____ CITY ENGINEER
		DESIGNED K. RAFIEE DRAWN K. RAFIEE CHECKED M. WAGES DATE 09/2025	SCALE N/A	TRAFFIC SIGNAL UPGRADES PROJECT TRAFFIC SIGNAL MODIFICATION BROADWAY & CENTRAL AVE

CONSTRUCTION NOTES:

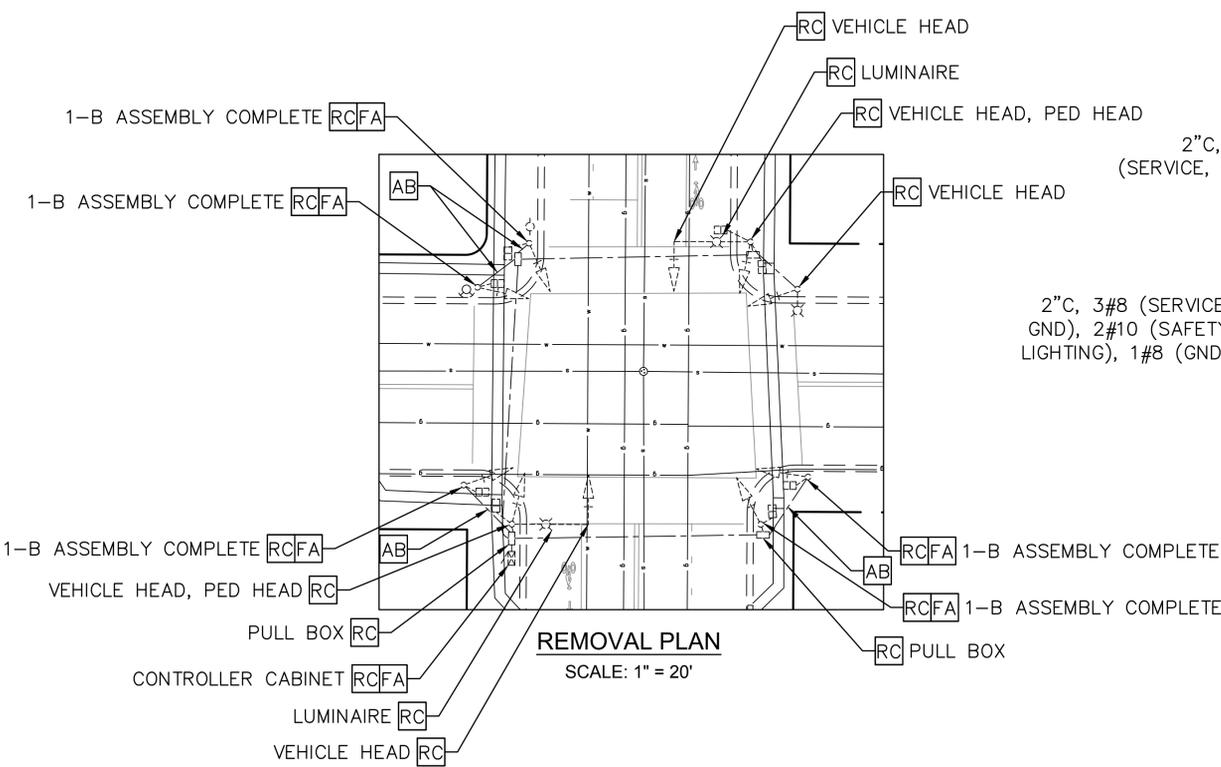
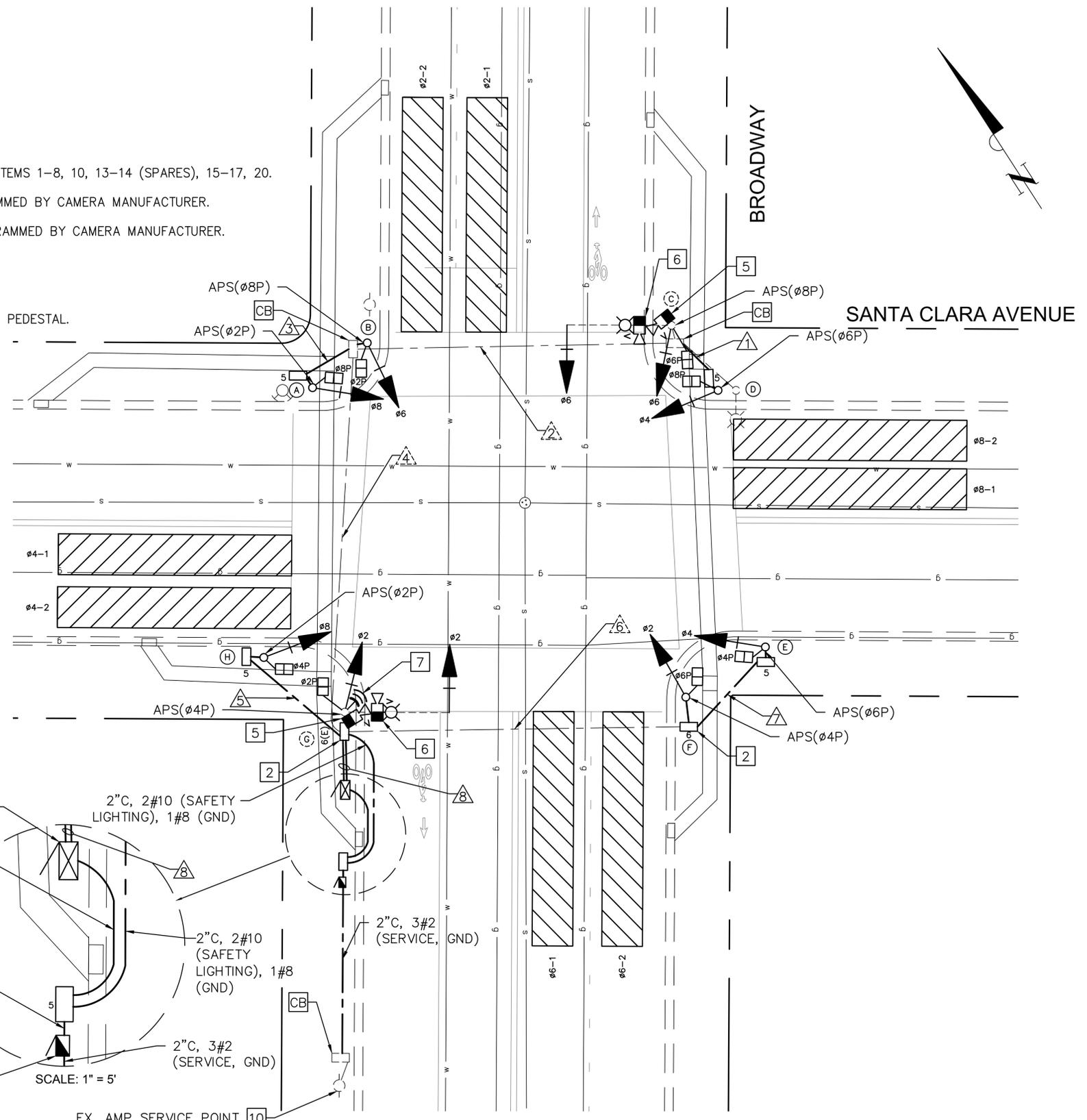
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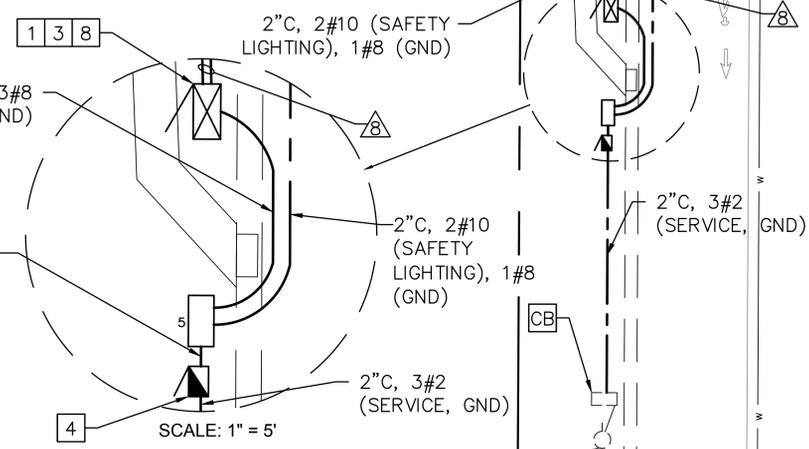
EXISTING PHASE SEQUENCE



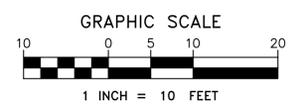
PROPOSED PHASE SEQUENCE



REMOVAL PLAN
SCALE: 1" = 20'



SCALE: 1" = 5'



PLANS PREPARED BY:
iteris
1999 Harrison St., Suite 1075
Oakland, CA 94612
Phone: (510) 535-4007

NO.	REVISED	BY	APP.
DESIGNED	K. RAFIEE		
DRAWN	K. RAFIEE		
CHECKED	M. WAGES		
DATE	09/2025	SCALE	1" = 10'

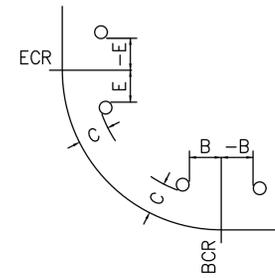
CITY OF ALAMEDA CALIFORNIA TRANSPORTATION DEPARTMENT		APPROVED BY CITY ENGINEER
TRAFFIC SIGNAL UPGRADES PROJECT		DATE 12/9/2025
TRAFFIC SIGNAL MODIFICATION BROADWAY & SANTA CLARA AVE		SHEET 5 OF 15 CITY PROJECT NO. 07-24-18 DRAWN BY TS-3

CONDUCTOR SCHEDULE									
AWG	CIRCUIT	RUN							
		1	2	3	4	5	6	7	8
#14	Ø2	-	-	-	-	-	3	-	3
	Ø4	3	3	-	3	-	3	3	6
	Ø6	-	3	-	3	-	-	-	3
	Ø8	-	-	3	3	3	-	-	6
	Ø2P	-	-	-	2	-	-	-	2
	Ø4P	-	-	-	-	2	2	2	4
	Ø6P	-	2	-	2	-	2	-	4
	Ø8P	-	2	2	4	-	-	-	4
	Ø2P PPB	-	-	2	2	2	-	-	4
	Ø4P PPB	-	-	-	-	-	2	-	2
	Ø6P PPB	2	2	-	2	-	2	2	4
	Ø8P PPB	-	2	-	2	-	-	-	2
	PPB COMMON	1	2	1	3	1	2	1	6
	SPARES	3	3	3	6	3	3	3	12
TOTAL	9	19	11	32	11	19	11	62	
#10	SAFETY LIGHTING	-	2	-	2	-	-	-	-
	SIGNAL COMMON	1	2	1	3	1	2	1	6
	TOTAL	1	4	1	5	1	2	1	6
VIDEO DETECTION CABLE		-	2	-	2	-	-	-	4
GPS ANTENNA CABLE		-	-	-	-	-	-	-	1
CONDUIT SIZE		2"	3"(E)	2"	3"(E)	2"	3"(E)	2"	2-4"
% FILL		6	9	8	13	8	6	8	7

ALL CONDUIT AND CONDUCTORS ARE NEW UNLESS OTHERWISE NOTED (E-EXISTING)

POLE AND EQUIPMENT SCHEDULE												
POLE DATA		SIGNAL MA	LUMINAIRE		SIGNAL MOUNTINGS			APS		POLE LOCATION		
NO.	TYPE		MA	WATTS(EQ)	VEHICULAR	M.A.	PEDESTRIAN	PHASE	ARROW	E	B	C
(A)	1-B	-	-	-	TV-1-T	-	SP-1-T	2	LEFT	-1.5'	-	2.5'
(B)	1-B	-	-	-	TV-1-T	-	SP-1-T	8	RIGHT	-	0'	2.5'
(C)	WR9-288-18-2 (E)	18' (E)	8' (E)	106W	SV-1-T	MAS	SP-1-T	8	LEFT	EXISTING		
(D)	1-B	-	-	-	TV-1-T	-	SP-1-T	6	RIGHT	-	-1'	2.5'
(E)	1-B	-	-	-	TV-1-T	-	SP-1-T	6	LEFT	-5.5'	-	2.5'
(F)	1-B	-	-	-	TV-1-T	-	SP-1-T	4	RIGHT	-	0'	2.5'
(G)	WR9-288-18-2 (E)	18' (E)	8' (E)	106W	SV-1-T	MAS	SP-1-T	4	LEFT	EXISTING		
(H)	1-B	-	-	-	TV-1-T	-	SP-1-T	2	RIGHT	-	-6'	2.5'

ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED. EXISTING EQUIPMENT IS DENOTED WITH (E).



POLE PLACEMENT



PLANS PREPARED BY:
iteris
 1999 Harrison St., Suite 1675
 Oakland, CA 94612
 Phone: (510) 551-8007

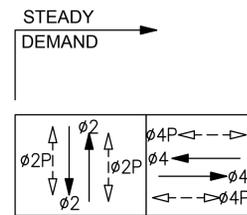
NO.	REVISED	BY	APP.
DESIGNED	K. RAFIEE		
DRAWN	K. RAFIEE		
CHECKED	M. WAGES		
DATE	09/2025	SCALE	N/A

CITY OF ALAMEDA
 CALIFORNIA
 TRANSPORTATION DEPARTMENT
 TRAFFIC SIGNAL UPGRADES PROJECT
 TRAFFIC SIGNAL MODIFICATION
 BROADWAY & SANTA CLARA AVE

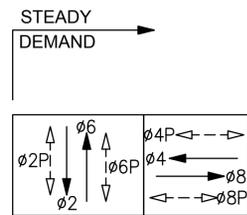
APPROVED BY	
CITY ENGINEER	
DATE	12/9/2025
CITY PROJECT NO.	07-24-18
SHEET	6 OF 15
DRAWN	TS-4

CONSTRUCTION NOTES:

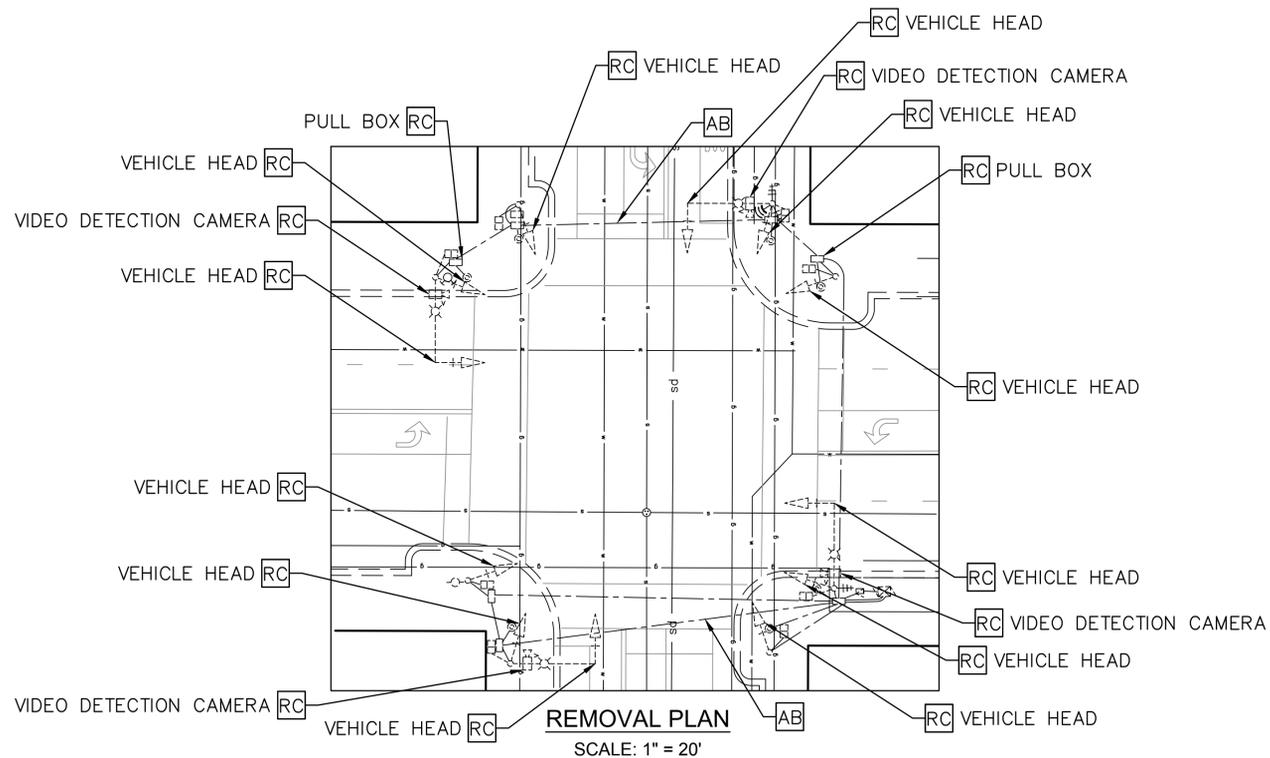
- 2 REPLACE EXISTING PULL BOX WITH NEW PULL BOX, SIZE PER PLAN.
- 6 INSTALL CITY-FURNISHED VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM. SEE DETAIL A ON SHEET CD-2. ZONES TO BE
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.



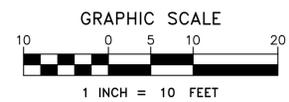
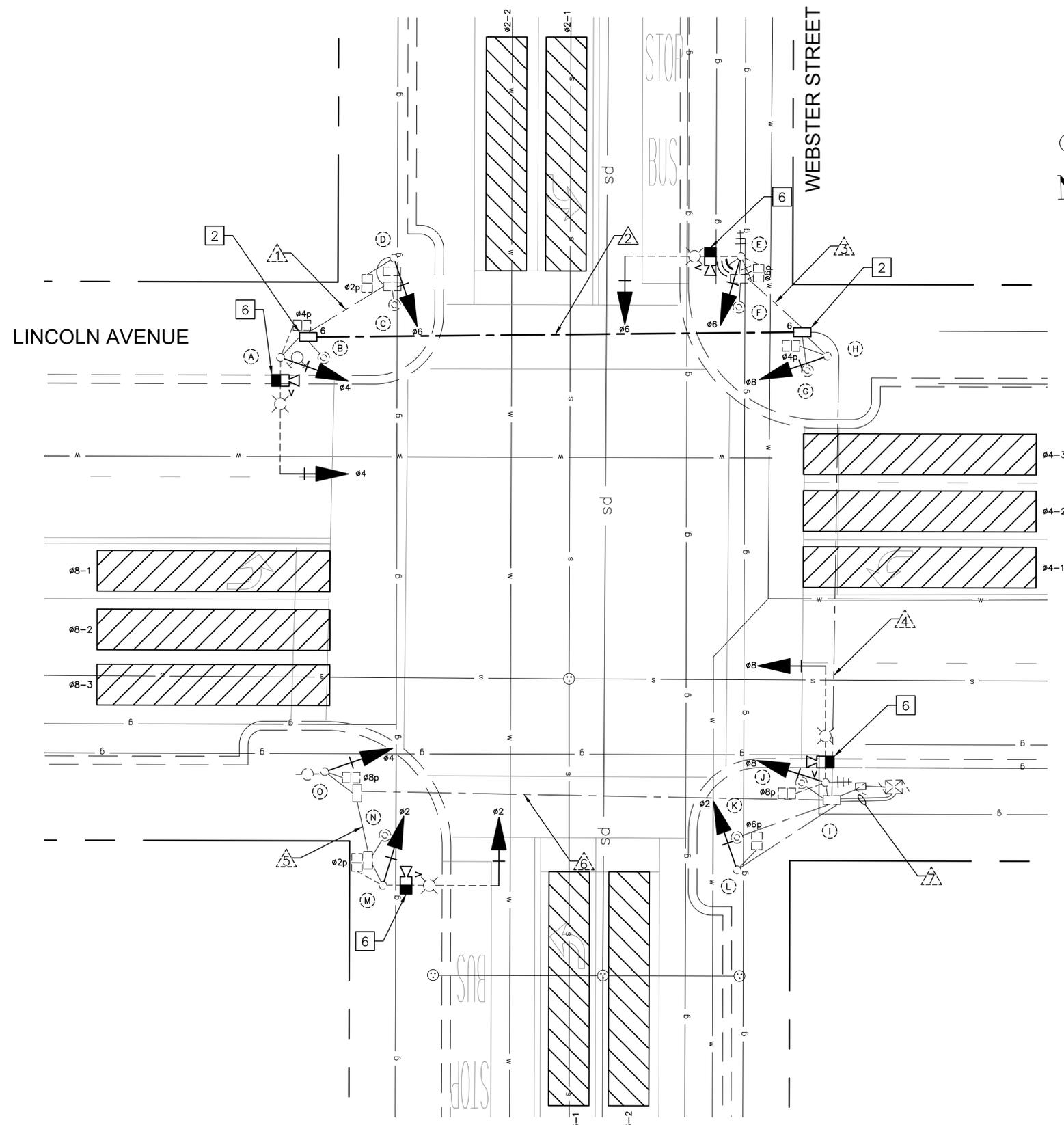
EXISTING PHASE SEQUENCE



PROPOSED PHASE SEQUENCE



REMOVAL PLAN
SCALE: 1" = 20'



PLANS PREPARED BY:
iteris
1900 Harrison St., Suite 1075
Oakland, CA 94612
Phone: (510) 535-4007

NO.	REVISED	BY	APP.
DESIGNED	K. RAFIEE		
DRAWN	K. RAFIEE		
CHECKED	M. WAGES		
DATE	09/2025	SCALE	1"=10'

CITY OF ALAMEDA
CALIFORNIA
TRANSPORTATION DEPARTMENT
TRAFFIC SIGNAL UPGRADES PROJECT
TRAFFIC SIGNAL MODIFICATION
LINCOLN AVE & WEBSTER ST

APPROVED BY	CITY ENGINEER
DATE	12/9/2025
CITY PROJECT NO.	07-24-18
SHEET	7 OF 15
DRAWN	TS-5

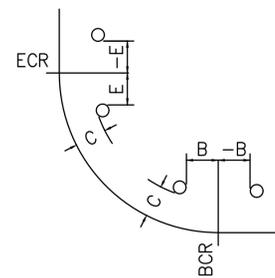
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CONDUCTOR SCHEDULE								
AWG	CIRCUIT	RUN						
		1	2	3	4	5	6	7
#14	Ø2	-	-	-	-	3	3	6
	Ø4	-	3	-	3	-	3	6
	Ø6	3	3	3	6	-	-	6
	Ø8	-	-	-	3	-	-	3
	Ø2P	2	2	-	2	2	2	4
	Ø4P	-	2	-	2	-	-	2
	Ø6P	-	-	2	2	-	-	4
	Ø8P	-	-	-	-	-	2	2
	Ø2P PPB	-	2	-	2	-	2	4
	Ø4P PPB	2	2	2	4	-	-	4
	Ø6P PPB	-	-	-	2	-	-	2
	Ø8P PPB	-	-	-	-	2	2	4
	PPB COMMON	1	2	1	3	1	2	5
	SPARES	3	3	3	6	3	3	15
TOTAL	11	19	11	35	11	19	67	
#10	SAFETY LIGHTING	-	2	2	2	2	-	-
	SIGNAL COMMON	1	2	1	3	1	2	5
	TOTAL	1	4	3	5	3	2	5
VIDEO DETECTION CABLE	-	1	1	2	1	1	4	
GPS ANTENNA CABLE	-	-	1(E)	1(E)	-	-	1(E)	
OPTICAL EVP CABLE	-	1(E)	1(E)	2(E)	1(E)	1(E)	4(E)	
WIRELESS RADIO CABLE	-	-	2(E)	2(E)	-	-	3(E)	
CONDUIT SIZE	2"(E)	3"	2"(E)	3"(E)	1.5"(E)	3"(E)	2-3"(E)	
% FILL	8	9	19	18	24	8	16	

ALL CONDUIT AND CONDUCTORS ARE NEW UNLESS OTHERWISE NOTED (E-EXISTING)

POLE AND EQUIPMENT SCHEDULE												
POLE DATA		SIGNAL MA	LUMINAIRE		SIGNAL MOUNTINGS			APS		POLE LOCATION		
NO.	TYPE		MA	WATTS(EQ)	VEHICULAR	M.A.	PEDESTRIAN	PHASE	ARROW	E	B	C
(A)	EX. MAST ARM POLE	20'	8'	67W	SV-1-T (N)	MAS (N)	SP-1-T	-	-	EXISTING		
(B)	PPB POST	-	-	-	-	-	-	2	LEFT	EXISTING		
(C)	PPB POST	-	-	-	-	-	-	4	RIGHT	EXISTING		
(D)	1-B	-	-	-	TV-1-T (N)	-	SP-1-T	-	-	EXISTING		
(E)	EX. MAST ARM POLE	20'	8'	67W	SV-1-T (N)	MAS (N)	SP-1-T	-	-	EXISTING		
(F)	PPB POST	-	-	-	-	-	-	4	LEFT	EXISTING		
(G)	PPB POST	-	-	-	-	-	-	6	RIGHT	EXISTING		
(H)	1-B	-	-	-	TV-1-T (N)	-	SP-1-T	-	-	EXISTING		
(I)	EX. MAST ARM POLE	20'	8'	67W	SV-1-T (N)	MAS (N)	SP-1-T	-	-	EXISTING		
(J)	PPB POST	-	-	-	-	-	-	6	LEFT	EXISTING		
(K)	PPB POST	-	-	-	-	-	-	8	RIGHT	EXISTING		
(L)	1-B	-	-	-	TV-1-T (N)	-	SP-1-T	-	-	EXISTING		
(M)	EX. MAST ARM POLE	20'	8'	67W	SV-1-T (N)	MAS (N)	SP-1-T	-	-	EXISTING		
(N)	PPB POST	-	-	-	-	-	-	8	LEFT	EXISTING		
(O)	1-B	-	-	-	TV-1-T (N)	-	SP-1-T	2	RIGHT	EXISTING		

ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED. NEW EQUIPMENT IS DENOTED WITH (N).



POLE PLACEMENT

	PLANS PREPARED BY:		CITY OF ALAMEDA CALIFORNIA TRANSPORTATION DEPARTMENT TRAFFIC SIGNAL UPGRADES PROJECT TRAFFIC SIGNAL MODIFICATION LINCOLN AVE & WEBSTER ST	APPROVED BY:
				DATE: 12/9/2025
				CITY PROJECT NO. 07-24-18
				DRAWN: K. RAFIEE
				CHECKED: M. WAGES
				DATE: 09/2025
				SCALE: N/A
				SHEET 8 OF 15
				DRAW: TS-6

TRAFFIC SIGNAL UPGRADES CIVIL IMPROVEMENT NOTES

GENERAL NOTES

THE DESIGN PROFESSIONAL WHO PREPARED THESE DRAWINGS IS NOT RESPONSIBLE FOR THE MISUSE OF, OR UNAUTHORIZED CHANGES MADE TO THESE DRAWINGS. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE DESIGN PROFESSIONAL WHO PREPARED THESE DRAWINGS PRIOR TO MAKING CHANGES. IN ADDITION TO THE GENERAL NOTES LISTED ON SHEET GN-1,

THE CONTRACTOR SHALL:

PROVIDE RECORD DRAWINGS TO THE CITY UPON COMPLETION OF PROJECT AND PRIOR TO FINAL ACCEPTANCE.

GRADING NOTES

THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE TO PREVENT THE INTRODUCTION OF FOREIGN MATERIALS INTO THE STORM WATER CONVEYANCE SYSTEM. REMOVE MATERIAL WHICH WILL NOT BE USED ON SITE AS IT IS EXCAVATED AND DISPOSE IN ACCORDANCE WITH THE GOVERNING AGENCY'S REQUIREMENTS. ACTIVITY DURING CONSTRUCTION WHICH RESULTS IN THE DISCHARGE OF POLLUTANTS TO THE STORM WATER CONVEYANCE SYSTEM IS IN VIOLATION OF THE CITY'S WATER ORDINANCE AND STATE WATER RESOURCES CONTROL BOARD'S REGULATIONS.

THE CONTRACTOR SHALL:

PROVIDE DUST CONTROL THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT TO MINIMIZE AIRBORNE POLLUTANTS.

REMOVE EXISTING CONCRETE AT EXPANSION OR WEAKENED PLANE JOINTS OR AT SAWCUTS AS APPROVED BY THE AGENCY ENGINEER. SAW CUT ENTIRELY THROUGH THE CONCRETE.

WHERE UNDERCUT SUBGRADE OR UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, THE AGENCY ENGINEER MAY REQUIRE REMEDIAL WORK TO BE DONE, INCLUDING OVER-EXCAVATION AND BACKFILLING WITH CRUSHED ROCK AND, WHEN DIRECTED BY THE ENGINEER, PLACING GEOTEXTILE FABRIC BENEATH THE NEW CONCRETE SECTION.

COMPACT SUBGRADE TO AT LEAST 95-PERCENT RELATIVE COMPACTION IN THE TOP 6-INCHES PER ASTM D1557.

EXCEPT WHERE SPECIFIED OTHERWISE HEREIN, NO ADMIXTURES SHALL BE USED WITHOUT THE PERMISSION OF THE AGENCY ENGINEER.

SET FORMS TO MEET GRADES. SET FORM FACES SUCH THAT DO NOT VARY FROM THE DIMENSIONS SHOWN BY MORE THAN 1/2-INCH, PROVIDED THAT CROSS SLOPES IN PEDESTRIAN AREAS DO NOT EXCEED 2-PERCENT.

NO CONCRETE SHALL BE PLACED UNTIL THE AGENCY ENGINEER HAS INSPECTED AND APPROVED FORMS AND SUBGRADE/BASE.

THOROUGHLY WET SUBGRADE/BASE IMMEDIATELY PRIOR TO PLACING CONCRETE.

ALL CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 9-2, "MINOR CONCRETE" OF STATE SPECIFICATIONS. 3/4" AGGREGATE WITH 1 1/2 POUNDS OF LAMP BLACK PER CUBIC YARD. NO BAGGED MIX IS PERMITTED.

PROVIDE CONCRETE WITH A SLUMP OF NOT MORE THAN 4-INCHES.

PROVIDE SCORE MARKS, WEAKENED JOINTS PLANE JOINTS, AND EXPANSION JOINTS IN ACCORDANCE WITH CITY OF STANDARD DETAIL ST 1-5.

REMOVE FORMS FROM CURBS, SIDEWALKS AND DRIVEWAY APPROACHES AND BACKFILL WITHIN SEVEN DAYS AFTER POURING.

THE DESIGNATED DIMENSIONS AND SLOPES MAY BE MODIFIED TO ACCOMMODATE EXISTING ADJACENT FACILITIES SUBJECT TO THE APPROVAL OF THE AGENCY ENGINEER.

PUBLIC CURB RAMP NOTES

CURB RAMP SHALL COMPLY WITH 2023 CALTRANS STANDARD PLANS A88A AND A88B, BUT MAY BE MODIFIED BY THE AGENCY ENGINEER TO FIT FIELD CONDITIONS.

PEDESTRIAN PATH-OF-TRAVEL: A SAFE AND ACCESSIBLE PEDESTRIAN PATH-OF-TRAVEL SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION. WHERE NECESSARY, TEMPORARY PATH OF TRAVEL IMPROVEMENTS MAY INCLUDE, BUT IS NOT LIMITED TO, TEMPORARY CURB RAMP, PROTECTED WALKWAYS WHEN PEDESTRIANS ARE DIRECTED INTO THE VEHICLE TRAVEL WAY, AND SIGNAGE TO REDIRECT PEDESTRIAN TRAFFIC. ALL TEMPORARY MEASURES SHALL BE COMPLIANT WITH STATE AND FEDERAL DISABLED ACCESS REQUIREMENTS, INCLUDING THE AMERICANS WITH DISABILITIES ACT AND THE CALIFORNIA BUILDING CODE, TITLE 24. PEDESTRIAN PATH OF TRAVEL DETOURS SHALL NOT CREATE SIGHT DISTANCE CONSTRAINTS FOR MOTORISTS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY PEDESTRIAN PATH IMPROVEMENTS. THE CONTRACTOR SHALL SUBMIT PROPOSED TEMPORARY PEDESTRIAN PATH OF TRAVEL FOR APPROVAL PRIOR TO CONSTRUCTION.

MISCELLANEOUS NOTES

SIDEWALK WARPS SHALL BE CONSTRUCTED TO PROVIDE A CLEAR 4-FOOT WALKWAY AROUND SURFACE OBSTRUCTIONS.

TESTING FOR RELATIVE COMPACTION SHALL BE IN ACCORDANCE WITH ASTM D1557. THE USE OF SAND CONE METHODS -- SUCH AS ASTM 1556 OR CALTRANS' 216, PART 1 -- SHALL NOT BE ALLOWED.

ALL NEW AND EXISTING UTILITY VAULTS, PULL BOXES, MANHOLES, ETC. LOCATED WITHIN THE NEW PUBLIC SIDEWALK SHALL BE EQUIPPED WITH SLIP RESISTANT COVERS.

AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, THE CONTRACTOR SHALL REMOVE ALL USA MARKINGS IN THE PROJECT AREA.

UTILITY NOTES

CONTRACTOR SHALL CONTACT THE CITY PUBLIC WORKS DEPARTMENT BEFORE PERFORMING ANY WORK WHICH MAY AFFECT EXISTING UTILITIES.

THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ON THIS DRAWING ARE APPROXIMATE AND ARE BASED ON OBSERVED TOPOGRAPHIC SURFACE FEATURES AND AVAILABLE INFORMATION. UTILITY SIZES WERE TAKEN FROM PUBLIC SOURCES SUCH AS EXISTING IMPROVEMENT DRAWINGS. THE PROFESSIONAL PREPARING THIS DRAWING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.

IF DAMAGE OCCURS TO ANY WATER SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CALL EBMUD AT 1-866-403-2683 AND PERFORM REPAIRS AS DIRECTED BY EBMUD.

MAPPING NOTES

THE CONTRACTOR SHALL PRESERVE AND PERPETUATE EXISTING SURVEY MONUMENTATION WHICH WILL BE DISTURBED OR REMOVED TO FACILITATE THE PROPOSED IMPROVEMENTS. IF WORK WILL BE CONDUCTED IN AN AREA WHICH RESULTS IN THE DISTURBANCE OF MONUMENTATION, RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO LOCATE SAID MONUMENTATION PRIOR TO DISTURBANCE. ADDITIONALLY, RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO RE-ESTABLISH MONUMENTATION WHICH HAS BEEN DISTURBED AS A RESULT OF PROJECT CONSTRUCTION AND TO FILE THE APPROPRIATE DOCUMENTATION, PURSUANT TO THE BUSINESS AND PROFESSIONS CODE.

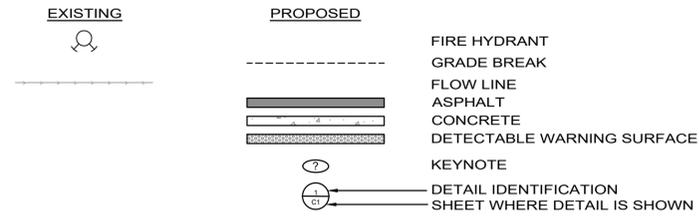
THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ARE BASED ON OBSERVED TOPOGRAPHIC SURFACE FEATURES AND AVAILABLE INFORMATION. THE PROFESSIONAL PREPARING THIS MAP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.

MISCELLANEOUS BOUNDARY INFORMATION SHOWN HEREON WAS OBTAINED FROM RECORD DATA AND DOES NOT CONSTITUTE A FORMAL BOUNDARY DETERMINATION.

BENCHMARK: FOR THE NORTHWEST INTERSECTION CORNER, THE NORTHEAST CORNER OF UTILITY VAULT, ELEVATION: 10' (DATUM: RELATIVE). FOR THE SOUTHWEST INTERSECTION CORNER, THE NORTHWEST CORNER OF THE ELECTRICAL UTILITY BOX IN THE MIDDLE OF THE SIDEWALK ALONG BROADWAY, ELEVATION: 10' (DATUM: RELATIVE).

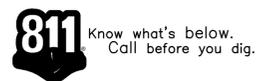
FIELD SURVEY DATE: AUGUST 7, 2024.

SYMBOLS & LEGEND



ABBREVIATIONS

- ± MORE OR LESS
- AC ASPHALT CONCRETE
- CB CATCH BASIN
- DW DRIVEWAY
- E ELECTRIC
- ELEV ELEVATION
- EP EDGE OF PAVEMENT
- FG FINISHED GRADE
- GB GRADE BREAK
- GI GRATE INLET
- GV GAS VALVE
- INV BOTTOM INSIDE OF PIPE
- LS LANDSCAPE
- MA MATCH EXISTING
- MH MANHOLE
- R RADIUS
- SSMH SANITARY SEWER MANHOLE
- TB TOP OF BOX
- TC TOP FACE OF CURB
- TEL TELECOMMUNICATION LINE
- TF TRANSFORMERE
- TG TOP OF GRATE
- TV TELEVISION
- TYP TYPICAL
- UB UTILITY BOX
- WV WATER VALVE



REVISION			
NO.	REVISED BY	DATE	DESCRIPTION

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT
PUBLIC WORKS

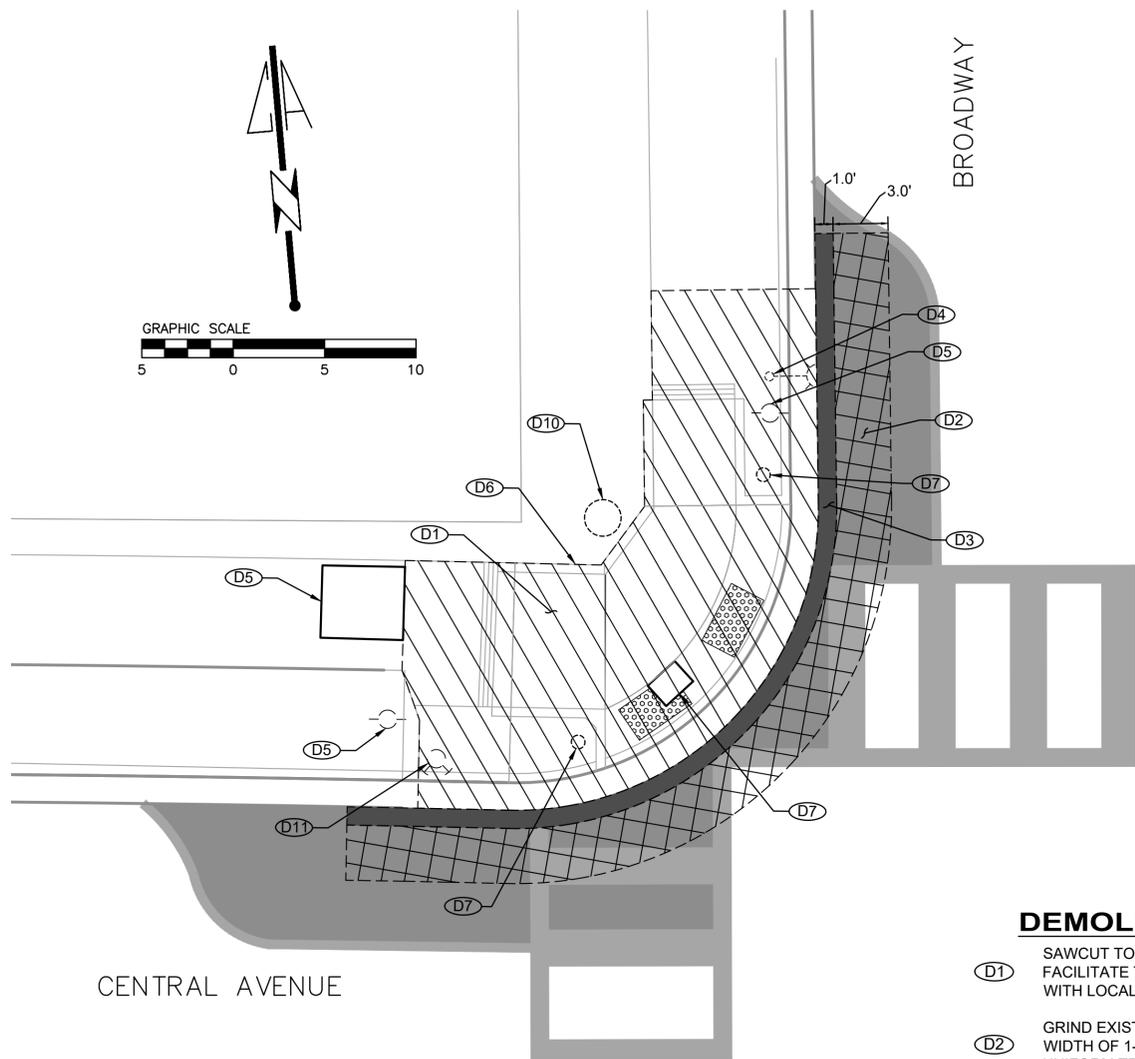
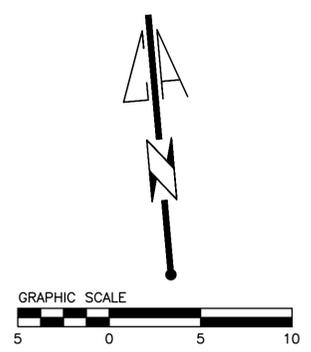


APPROVED BY _____
CITY ENGINEER
DATE 12/9/2025

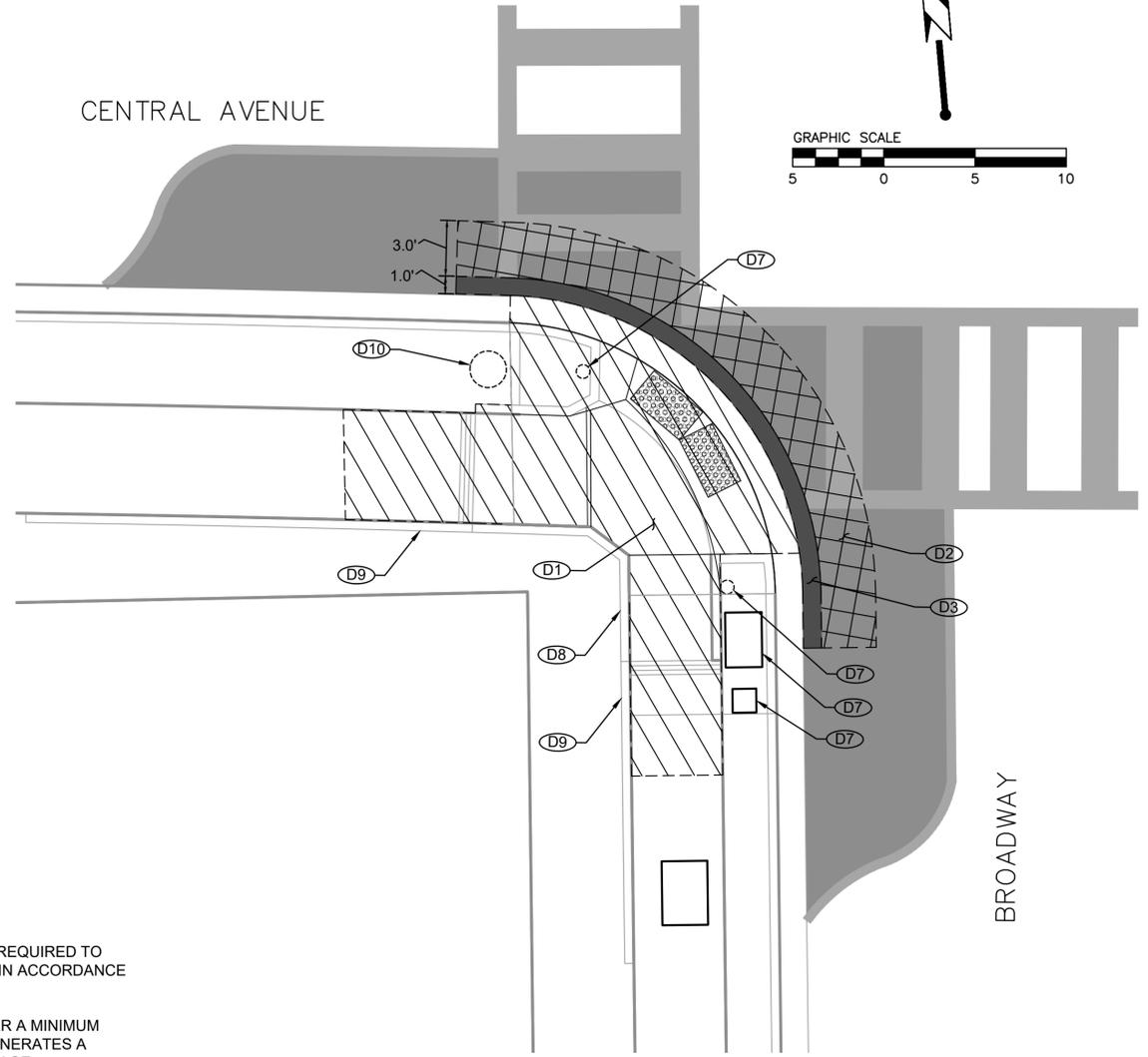
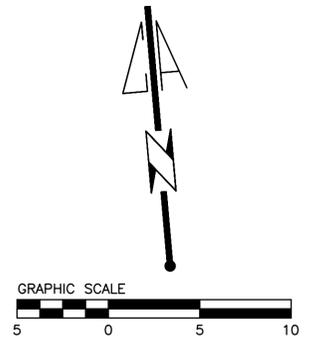


DRAWN BY: CL
DESIGNED BY: CL
CHECKED BY: SW
APPROVED BY: SW
DATE 7-24-2025
SCALE NTS

TRAFFIC SIGNAL UPGRADES
PROJECT
BROADWAY/CENTRAL AVENUE
GENERAL NOTES



**CENTRAL AVE & BROADWAY
NORTHWEST CORNER**
SCALE: 1"=5'



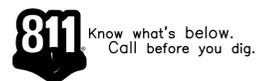
**CENTRAL AVE & BROADWAY
SOUTHWEST CORNER**
SCALE: 1"=5'

DEMOLITION KEYNOTES

- (D1) SAWCUT TO NEAREST SCORE JOINT AND REMOVE EXISTING MATERIAL AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF MATERIALS IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D2) GRIND EXISTING ASPHALT CONCRETE A MINIMUM DEPTH OF 0.15-FEET OVER A MINIMUM WIDTH OF 1-FEET. PROVIDE A NEW ASPHALT PLUG IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND DOES NOT IMPEDE DRAINAGE.
- (D3) GRIND EXISTING ASPHALT CONCRETE A MINIMUM DEPTH OF 0.15-FEET OVER A MINIMUM WIDTH OF 3-FEET. PROVIDE A NEW ASPHALT CONCRETE OVERLAY IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND DOES NOT IMPEDE DRAINAGE.
- (D4) COORDINATE WITH THE OWNER OF THIS UTILITY TO RAISE/LOWER EXISTING UTILITY TO FINISHED GRADE AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS.
- (D5) PROTECT IN PLACE EXISTING UTILITY.
- (D6) DEMO EXISTING CURB
- (D7) SEE TRAFFIC SIGNAL PLANS FOR PROPOSED IMPROVEMENTS ON SHEETS 3-6
- (D8) EXISTING CURB, PROTECT IN PLACE.
- (D9) EXISTING DECORATIVE CONCRETE, PROTECT IN PLACE.
- (D10) EXISTING TREE, PROTECT IN PLACE.
- (D11) EXISTING FIRE HYDRANT TO REMAIN, PROTECT IN PLACE.

SYMBOLS & LEGEND

- ASPHALT PLUG
- CONCRETE DEMO
- ASPHALT DEMO
- DETECTABLE WARNING SURFACE



REVISION			
NO.	REVISED BY	DATE	DESCRIPTION

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT
PUBLIC WORKS

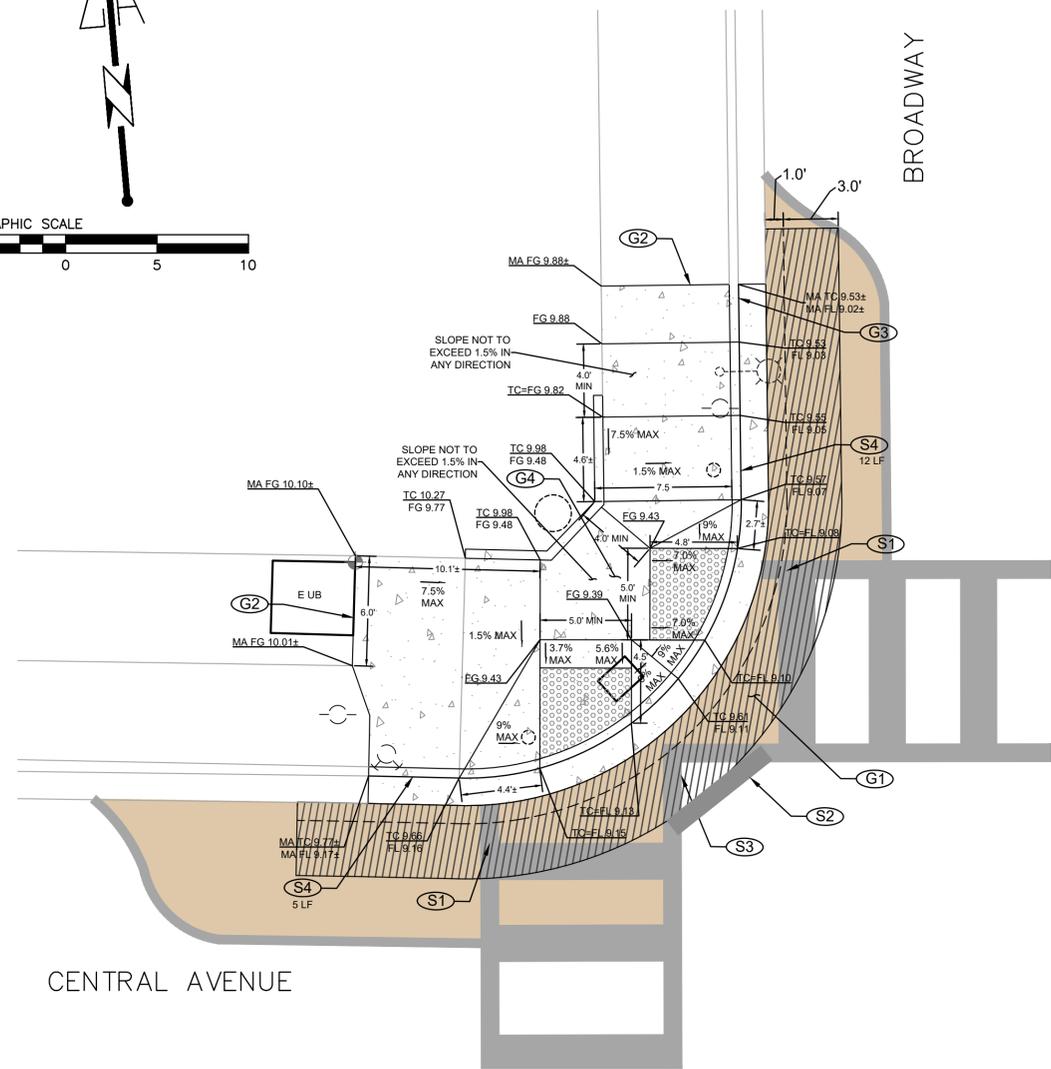
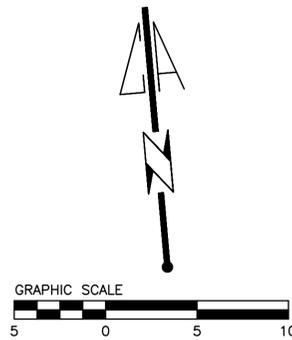


APPROVED BY
CITY ENGINEER
DATE 12/9/2025



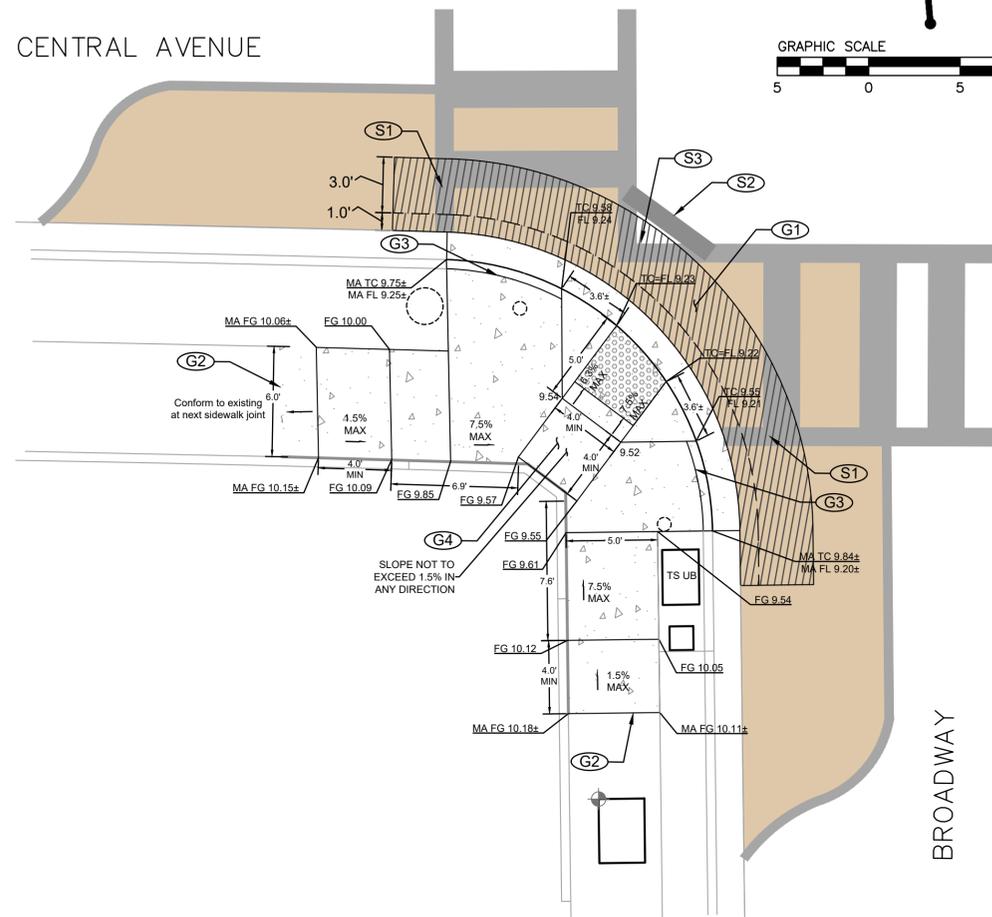
DRAWN BY: CL
DESIGNED BY: CL
CHECKED BY: SW
APPROVED BY: SW
DATE 7-24-2025
SCALE 1"=5'

TRAFFIC SIGNAL UPGRADES
PROJECT
BROADWAY/CENTRAL AVENUE
DEMOLITION PLAN

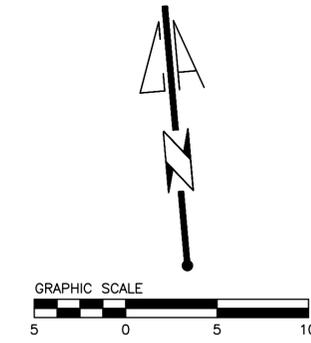


**CENTRAL AVE & BROADWAY
NORTHWEST CORNER**
SCALE: 1"=5'

CENTRAL AVENUE



**CENTRAL AVE & BROADWAY
SOUTHWEST CORNER**
SCALE: 1"=5'



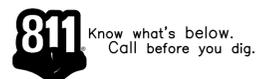
- SYMBOLS & LEGEND**
- ASPHALT PLUG/GRIND AND OVERLAY
SEE SHEET CD-1 DETAIL 4
 - 4" MIN. P.C.C. OVER 6" CLASS 2 AB CONCRETE
SEE SHEET CD-1 DETAIL 3
 - 2'-WIDE DETECTABLE WARNING TRUNCATED DOMES
SEE SHEET CD-1 DETAIL 1
 - 7.5% MAX SURFACE SLOPE
 - GRADE BREAK
 - DATUM: LOCAL REFERENCE ELEVATION 10.0' AS NOTED ON PLANS

GRADING KEYNOTES

- G1** NEW ASPHALT CONCRETE SECTION TO MATCH EXISTING OR FULL DEPTH ASPHALT CONCRETE PLUG SEE SHEET CD-1 DETAIL 4.
- G2** CONFORM TO EXISTING SURFACE ELEVATION IN A MANNER WHICH PROVIDES A UNIFORM TRANSITION BETWEEN SURFACES AND DOES NOT IMPEDE DRAINAGE. CONFORM TO NEAREST SIDEWALK JOINT.
- G3** TYPE A CURB IN ACCORDANCE WITH CITY STANDARD ST 1-1
- G4** MODIFIED CASE B PEDESTRIAN CURB RAMP IN ACCORDANCE WITH 2023 CALTRANS STANDARD PLAN A88A, SEE SHEET CD-1 DETAIL 1.

SIGNAGE & STRIPING KEYNOTES

- S1** AFTER THE PROPOSED IMPROVEMENTS HAVE BEEN COMPLETED, REPLACE EXISTING STRIPING THAT WAS DAMAGED BY THE PROPOSED IMPROVEMENTS.
 - S2** STRIPE 12" WHITE THERMOPLASTIC STRIPE
 - S3** REMOVE STRIPE AND DO NOT REPLACE
 - S4** REPAINT EXISTING RED CURB
- DATUM: LOCAL REFERENCE AS NOTED ON PLANS



REVISION			
NO.	REVISED BY	DATE	DESCRIPTION

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT
PUBLIC WORKS



APPROVED BY

CITY ENGINEER
DATE
12/9/2025



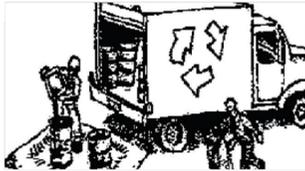
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7-24-2025
SCALE
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TRAFFIC SIGNAL UPGRADES
PROJECT
BROADWAY/CENTRAL AVENUE
IMPROVEMENT PLAN

Construction Best Management Practices (BMPs)

Construction projects are required to implement year-round stormwater BMPs.

Materials, Waste, and Sediment Management



- Construction Entrances and Perimeter**
- Establish and maintain effective perimeter controls, and stabilize all construction entrances and exits to sufficiently control erosion, sediment discharges and tracking of sediment offsite.
 - Sweep or vacuum immediately any tracking of sediment offsite and secure sediment source to prevent further tracking. Never hose down streets or sidewalks.

Non-Hazardous Materials and Dust Control

- Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or when they are not in use. Weigh down and secure tarps for wind protection.
- Keep materials off the ground (e.g., store bagged materials on wood pallets, store loose materials on tarps not pavement, etc.).
- Use captured water from other activities (e.g., testing fire lines) for dust control.
- Ensure dust control water doesn't leave site or discharge to storm drains. Only use enough to control dust. Contain and dispose of excess water properly.

Hazardous Materials

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with City, County, State and Federal regulations.
- Store hazardous materials and wastes in watertight containers, store in appropriate secondary containment, and cover them at the end of every workday, during wet weather or when rain is forecast.
- Follow manufacturer's application instructions for hazardous materials and do not use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- Arrange for appropriate disposal of all hazardous wastes. Have all pertinent Safety Data Sheets (i.e., SDS/MSDS/PSDS) onsite.

Waste Management

- Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use. Repair/replace any dumpster that is not watertight or leaking.
- Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. If the dumpster leaks, place a plastic liner underneath the dumpster to collect leaks. Never clean out a dumpster by hosing it down on the construction site – clean with dry methods, clean offsite or replace dumpster.
- Place portable toilets and hand wash stations away from storm drains. Make sure they are equipped with containment pans (secondary containment) and are in good working order. Check frequently for leaks.
- Dispose of all wastes and demolition debris properly per SDS and applicable regulations. Recycle or compost materials and wastes as feasible and appropriate, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation.
- Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste per SDS.
- Keep site free of litter (e.g., lunch items, water bottles, cigarette butts and plastic packaging).
- Prevent litter from uncovered loads by covering loads that are being transported to and from site.

Equipment Management & Spill Control



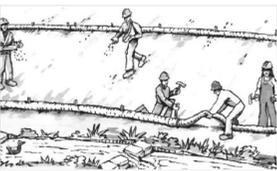
Vehicle and Equipment Maintenance

- Designate an area of the construction site equipped with appropriate BMPs, well away from creeks or storm drain inlets, for auto and equipment parking and storage.
- Perform major maintenance, repair jobs, and vehicle/equipment washing offsite.
- If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or creeks.
- Do not clean vehicles or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment, and do not use diesel oil to lubricate equipment or parts onsite.

Spill Prevention and Control

- Always keep spill cleanup materials (e.g., rags, absorbents, and cat litter) available at the construction site.
- Maintain all vehicles and heavy equipment. Inspect frequently for leaks. Use drip pans to catch leaks until repairs are made.
- Clean up leaks, drips and other spills immediately using dry cleanup methods whenever possible (absorbent materials, cat litter and/or rags) and dispose of cleanup materials properly.
- Sweep up spilled dry materials immediately. Never attempt to "wash them away" with water or bury them.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report significant spills to the appropriate local spill response agencies immediately. If the spill poses a significant hazard to human health and safety, property or the environment, report it to the State Office of Emergency Services at (800) 852-7550 (24 hours).

Earthmoving



Grading and Earthwork

- Schedule grading and excavation work during dry weather.
- Prevent sediment from migrating offsite and protect storm drain inlets, drainage courses and creeks by installing and maintaining appropriate BMPs tailored to the site's specific characteristics and conditions. Examples of such BMPs may include silt fences, gravel bags, fiber rolls, temporary swales, compost socks, etc. Ensure that BMPs are installed in accordance with manufacturer's specifications and properly maintained throughout the duration of construction activities.
- Stabilize all denuded areas and install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- Remove existing vegetation only when necessary. Plant temporary vegetation to prevent erosion on slopes or in areas where construction is not immediately planned.
- Keep excavated soil and/or transfer it to dump trucks, onsite, not in the streets.
- Ensure all subcontractors working onsite are implementing appropriate BMPs.

Contaminated Soils

- If any of the following conditions are observed, test for contamination and contact the [Regional Water Quality Control Board](#) and the local agency:
 - Unusual soil conditions, discoloration, or odor.
 - Abandoned underground tanks.
 - Abandoned wells.
 - Buried barrels, debris, or trash.
- If the above conditions are observed, document any signs of potential contamination, clearly mark areas and fence/tape them off so they are not disturbed by construction activities.

Landscaping

- Protect stockpiled landscaping materials from wind and rain by storing them under tarps year-round.
- Stack bagged material on pallets and under cover.
- Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.
- Store materials onsite, not in the street.

Concrete Management & Dewatering



Concrete Management

- Store both dry and wet concrete-related materials under cover, protected from rainfall and runoff and away from storm drains or creeks. Store materials off the ground on pallets. Protect dry materials from wind.
- Avoid pouring concrete in wet weather or when rainfall is imminent to prevent concrete that has not cured from contacting stormwater runoff.
- Wash out concrete equipment/mixers/trucks offsite, or onsite only in designated washout containers/areas where the water will flow into a temporary lined waste pit and in a manner that will prevent leaching into the underlying soils. (See CASQA Construction Stormwater BMP Handbook for temporary concrete washout facility details).
- Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose properly.
- Make sure that construction waste (e.g., concrete, stucco, cement wastewater, or residual materials) is collected, removed, and disposed of only at authorized disposal areas. Do not dispose of construction waste in storm drains, ditches, streets, creeks, dirt areas, or the sanitary sewer.

Dewatering

- Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible, send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer, obtain permission from the local wastewater treatment plant.
- Divert water originating from offsite away from all onsite disturbed areas.
- When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known or suspected contamination, call the local agency to determine whether the groundwater must be tested. Pumped groundwater may need to be collected and hauled offsite for treatment and proper disposal.
- For additional information, refer to the CASQA's Construction Stormwater BMP Handbook, Fact Sheet NS-2 "Dewatering Operations."

Paving/Asphalt Work



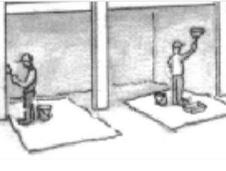
Paving

- Avoid paving and seal coating in wet weather or when rain is forecast to prevent materials that have not cured from contacting with stormwater runoff.
- Cover storm drain inlets and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- When construction is complete, remove all covers from storm drain inlets and manholes.
- Collect and recycle or properly dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters, storm drains, streets, dirt areas, or the sanitary sewer.

Sawcutting & Asphalt/Concrete Removal

- Protect storm drain inlets during saw cutting.
- When making saw cuts, use as little water as possible.
- Residue from saw cutting, coring and grinding operations shall be picked up by means of a vacuum device.
- Shovel, absorb, or vacuum saw cut slurry deposits and dispose of all waste properly and as soon as reasonably possible. Sawcutting residue should not be left on pavement surface.
- If saw cut slurry enters a storm drain inlet, clean it up immediately and notify the local municipality.

Painting & Paint Removal



Painting Cleanup and Removal

- Never clean brushes or rinse paint containers to landscaping, dirt areas or into a street, gutter, storm drain, or creek.
- For water-based paints, paint out brushes to the extent possible, and then rinse into a drain connected to the sanitary sewer. Never pour paint down a storm drain inlet.
- For oil-based paints, paint out brushes to the extent possible, and then clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- Sweep up or collect paint chips and dust generated from non-hazardous dry stripping and sand blasting into plastic drop cloths and dispose of as trash.
- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead-based paint removal requires a state-certified contractor.



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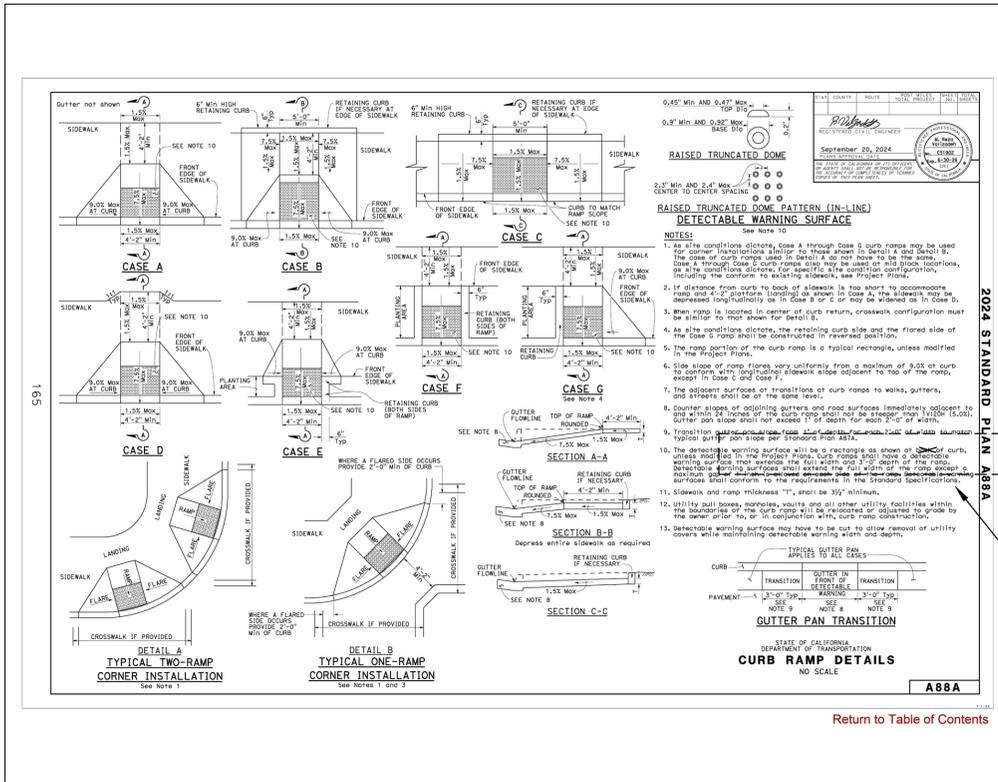
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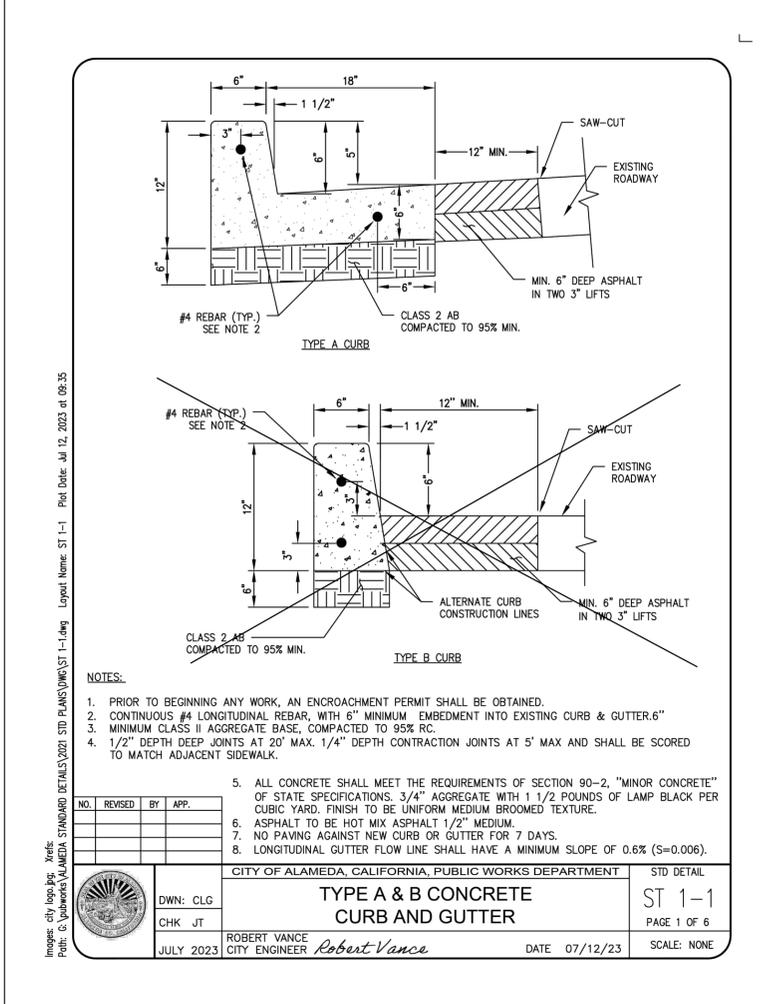
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TRAFFIC SIGNAL UPGRADES
PROJECT
BROADWAY/CENTRAL AVENUE
EROSION CONTROL PLAN

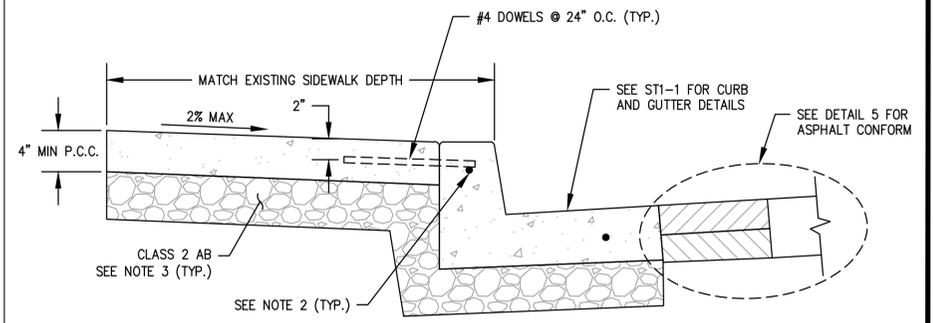
SHEET 12 OF 15
CITY PROJECT NO. 07-24-18
DWG. EC-1



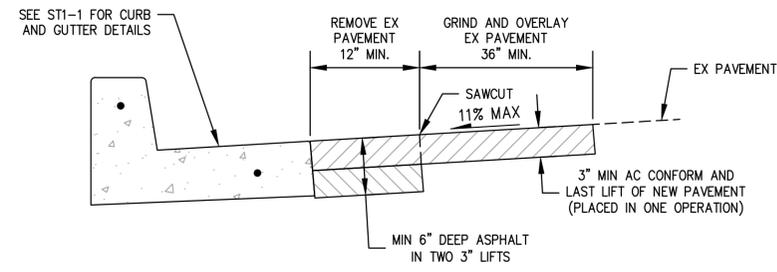
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2 MODIFIED CURB AND GUTTER
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3 SIDEWALK WITH CURB AND GUTTER
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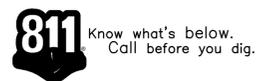
- NOTES:
1. PRIOR TO BEGINNING ANY WORK, AN ENCROACHMENT PERMIT SHALL BE OBTAINED.
 2. AT THE DISCRETION OF THE PROJECT INSPECTOR, ADDITIONAL CONFORM GRADING MAY BE REQUIRED, AS NECESSARY, TO MAINTAIN A MINIMUM 2% CROSS SLOPE.
 3. ASPHALT TO BE HOT MIX ASPHALT 1/2" MED.

4 ASPHALT PLUG
NO SCALE

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CITY OF ALAMEDA, CALIFORNIA, PUBLIC WORKS DEPARTMENT		STD DETAIL
TYPE A & B CONCRETE CURB AND GUTTER		ST 1-1
DWN: CLG CHK: JT		PAGE 1 OF 6
JULY 2023	ROBERT VANCE CITY ENGINEER <i>Robert Vance</i>	DATE 07/12/23 SCALE: NONE



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CITY OF ALAMEDA
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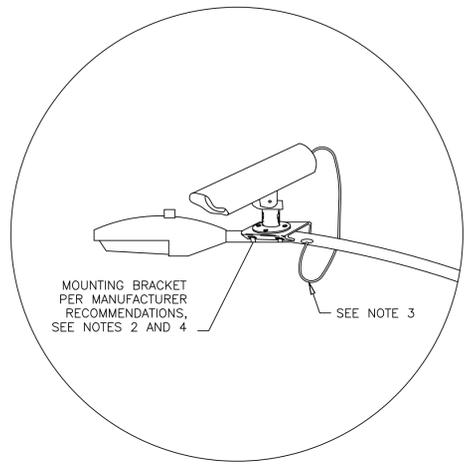


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DATE 12/9/2025

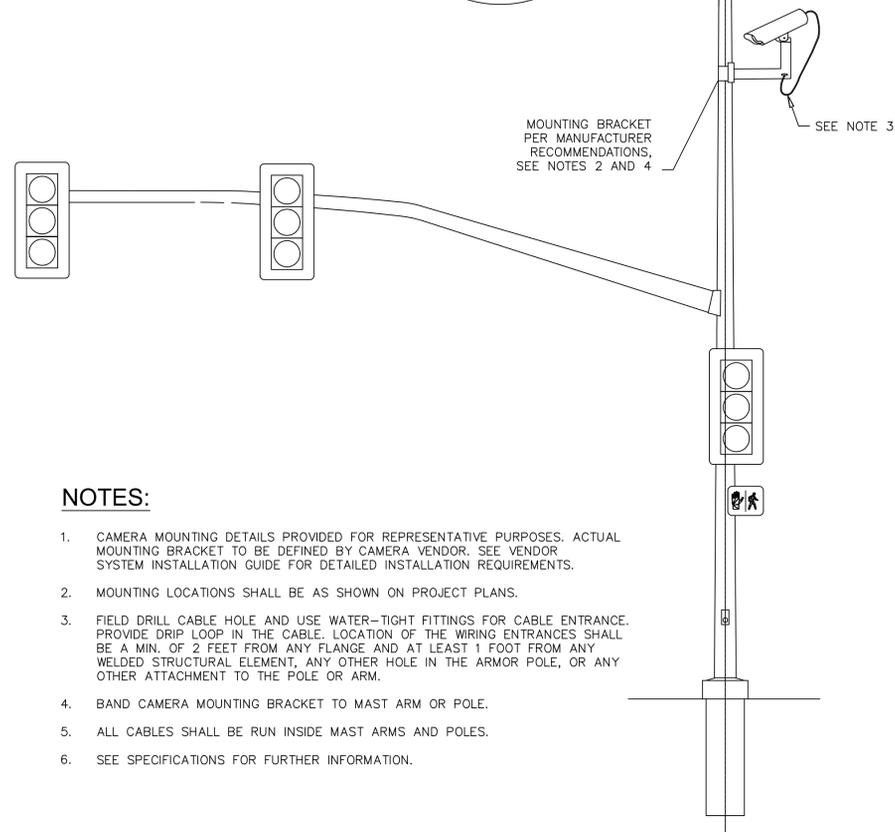
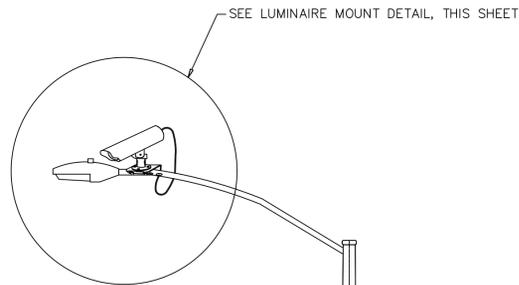


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DATE 7-24-2025
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TRAFFIC SIGNAL UPGRADES PROJECT
BROADWAY/CENTRAL AVENUE
CONSTRUCTION DETAILS



LUMINAIRE MOUNT DETAIL



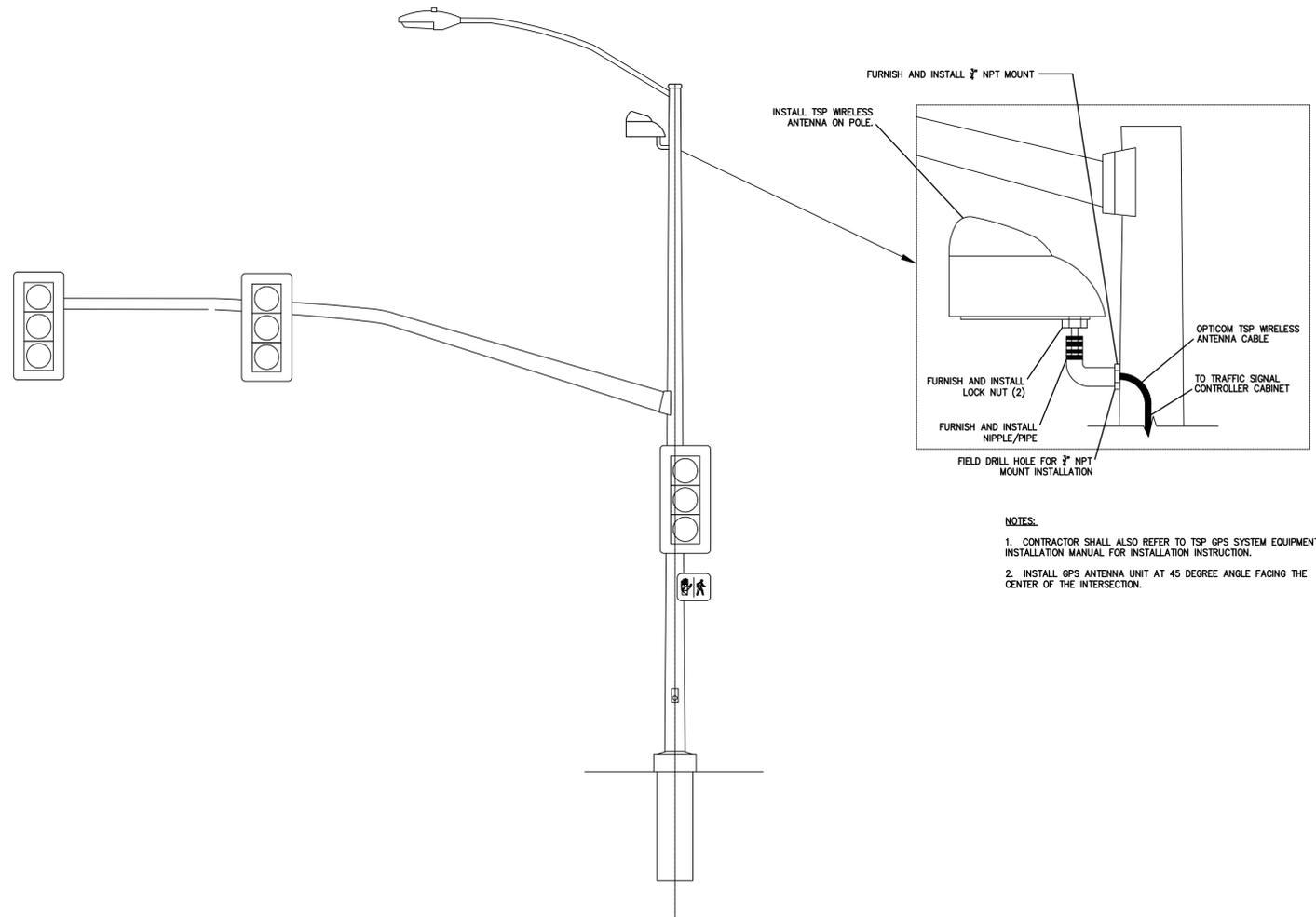
DETAIL A

VIDEO DETECTION CAMERA MOUNTING DETAIL

NO SCALE

NOTES:

1. CAMERA MOUNTING DETAILS PROVIDED FOR REPRESENTATIVE PURPOSES. ACTUAL MOUNTING BRACKET TO BE DEFINED BY CAMERA VENDOR. SEE VENDOR SYSTEM INSTALLATION GUIDE FOR DETAILED INSTALLATION REQUIREMENTS.
2. MOUNTING LOCATIONS SHALL BE AS SHOWN ON PROJECT PLANS.
3. FIELD DRILL CABLE HOLE AND USE WATER-TIGHT FITTINGS FOR CABLE ENTRANCE. PROVIDE DRIP LOOP IN THE CABLE. LOCATION OF THE WIRING ENTRANCES SHALL BE A MIN. OF 2 FEET FROM ANY FLANGE AND AT LEAST 1 FOOT FROM ANY WELDED STRUCTURAL ELEMENT, ANY OTHER HOLE IN THE ARMOR POLE, OR ANY OTHER ATTACHMENT TO THE POLE OR ARM.
4. BAND CAMERA MOUNTING BRACKET TO MAST ARM OR POLE.
5. ALL CABLES SHALL BE RUN INSIDE MAST ARMS AND POLES.
6. SEE SPECIFICATIONS FOR FURTHER INFORMATION.



DETAIL B

GPS EVP/TSP DETECTOR MOUNTING

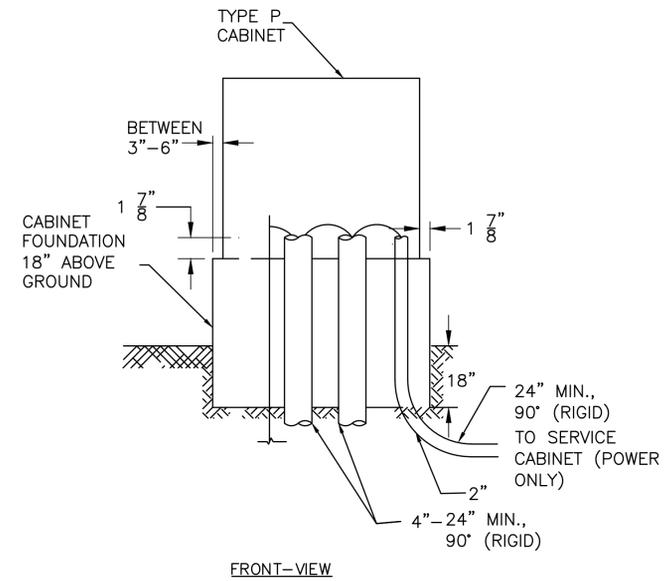
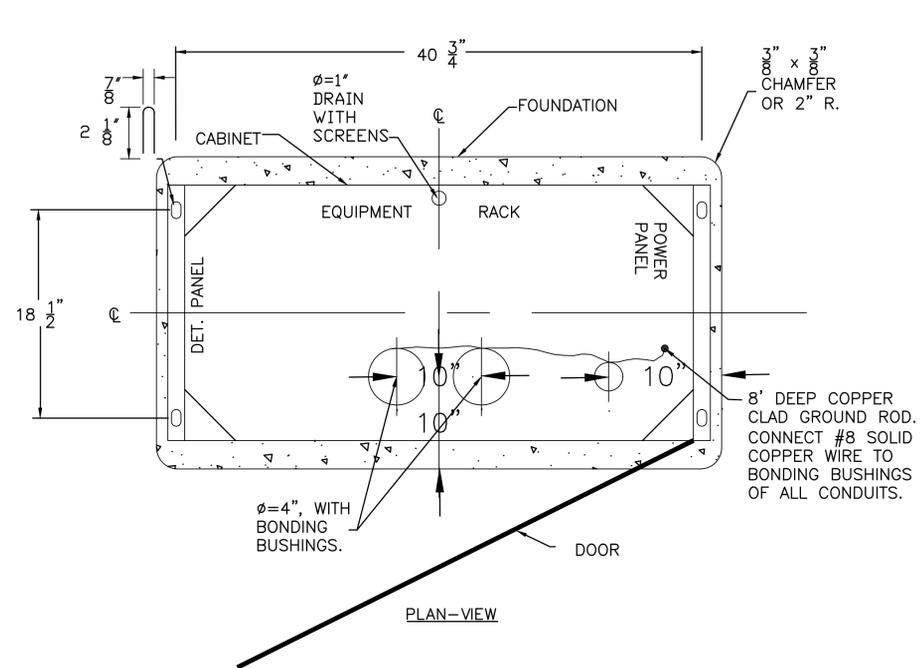
NO SCALE

NOTES:

1. CONTRACTOR SHALL ALSO REFER TO TSP GPS SYSTEM EQUIPMENT INSTALLATION MANUAL FOR INSTALLATION INSTRUCTION.
2. INSTALL GPS ANTENNA UNIT AT 45 DEGREE ANGLE FACING THE CENTER OF THE INTERSECTION.

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	PLANS PREPARED BY: 	CITY OF ALAMEDA CALIFORNIA TRANSPORTATION DEPARTMENT		APPROVED BY _____ CITY ENGINEER
		TRAFFIC SIGNAL UPGRADES PROJECT DETAILS		DATE 12/9/2025
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DETAIL C
TYPE P-44 CONTROLLER CABINET FOUNDATION
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	PLANS PREPARED BY: iteris <small>1999 Harrison St, Suite 1675 Oakland, CA 94612 Phone: (510) 551-4807</small>	CITY OF ALAMEDA CALIFORNIA TRANSPORTATION DEPARTMENT		APPROVED BY _____ CITY ENGINEER 12/9/2025																
		TRAFFIC SIGNAL UPGRADES PROJECT DETAILS		DATE 09/2025 SCALE N/A																
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