CITY OF ALAMEDA

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

FEDERAL PROJECT # TCSPL 5014(040)

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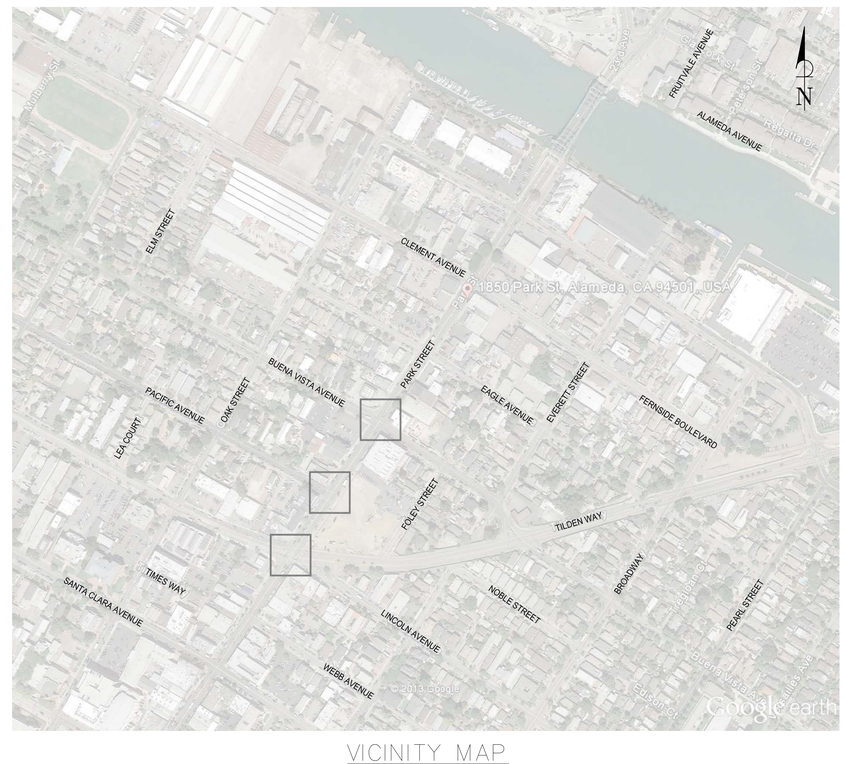
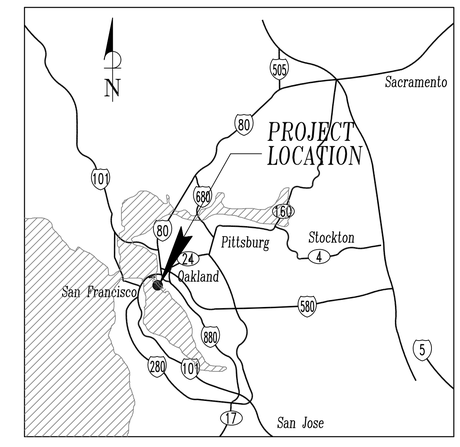


VICINITY MAP

N.T.S.



VICINITY MAP

NTS

LEGEND

PROJECT LOCATION

Stantec

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NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12-30-14 SCALE NO SCALE

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

COVER SHEET

APPROVED BY

CITY ENGINEER

DATE

SHEET 1 OF 16

DWG. T-1

CASE

P:\P\11\11043-001 Alameda Pedestrian Safety Project #1\CAD\Plots\2014\Xrefs\PM043-001_TITLE.dwg

GENERAL NOTES:

1. THE CONTRACTOR SHALL, AT THE TIME OF BIDDING, AND, THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF CALIFORNIA UNDER THE PROVISIONS OF CHAPTER 9, DIVISION 3 OF THE BUSINESS AND PROFESSIONS CODE AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR, IT SHALL BE EXPECTED THAT PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS ON THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES, WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR PECULIAR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.

3. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, THEY HAVE RELIED AND ARE RELYING ON THEIR OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON THEIR OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.

4. THE INFORMATION PROVIDED BY THE CITY OR THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT THEY HAVE NOT RELIED SOLELY UPON CITY OR ENGINEER FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING THEIR BID.

5. PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE REGULATORY AGENCY FOR A PRE-CONSTRUCTION CONFERENCE. CONTRACTOR SHALL ALSO NOTIFY THE BELOW LISTED PROJECT CONTACTS SEVENTY-TWO (72) HOURS IN ADVANCE OF SAID MEETING:
   A. CITY: CITY OF ALAMEDA
      950 ST MALL SQUARE
      951 ALAMEDA, CA. 94501
      PHONE NO. (510) 747-7947
      CONTACT: VIRENDRA PATEL

   B. OVERALL PROJECT ENGINEER: DKS ASSOCIATES
      1970 BROADWAY SUITE 740
      OAKLAND, CA 94612
      PHONE NO. (510)-267-6613
      FAX NO. (510)-268-1739
      CONTACT: DAVID MAHAMA, PE

   C. PARK AND PACIFIC ENGINEER: STANTEC CONSULTING SERVICES INC.
      901 MARKET STREET
      SAN FRANCISCO, CA 94103
      PHONE NO. (415) 882-9500
      FAX NO. (415) 882-9523
      CONTACT: JOY BHATTACHARYA, PE, PTOE

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ASSURE THEMSELVES THAT THE NECESSARY TEMPORARY EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.

7. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WHERE APPLICABLE FOR ANY WORK DONE WITHIN RIGHT-OF-WAYS OR EASEMENTS FROM CITY OF ALAMEDA AND/OR CALTRANS. CONTRACTOR SHALL NOTIFY CITY, COUNTY, AND/OR STATE, FORTY-EIGHT (48) HOURS IN ADVANCE OF STARTING ANY WORK REQUIRED IN THE PLANS.

8. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY THEMSELVES BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK, AND OF THE ACTUAL CONDITIONS OF THE SITE. IF, DURING THE COURSE OF THEIR EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO THEM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING THEIR BID.PRIOR TO ORDERING ANY EQUIPMENT THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS IN THE FIELD WITH THE CITY REPRESENTATIVE ENGINEER.

9. CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLANS FOR EACH PROJECT LOCATION. THE TRAFFIC CONTROL PLAN SHALL INCLUDE THE IDENTIFICATION OF THE TYPE AND LOCATION OF TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE DURING CONSTRUCTION. FIELD WORK SHALL NOT BEGIN UNTIL ADEQUATE TRAFFIC CONTROL DEVICES ARE IN PLACE AS APPROVED BY THE CITY OF ALAMEDA.

10. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION OF THIS PROJECT. THIS INCLUDES THE SAFETY OF ALL PERSONS AND PROPERTY, PURSUANT TO THE PROVISIONS OF OSHA AND ITS REGULATIONS FOR THE PROTECTION OF WORK, STRUCTURES, SHORING AND OTHER IMPROVEMENTS. THE REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

11. CONTRACTOR SHALL TAKE CARE TO PRESERVE ALL STREET MONUMENTS, LOT CORNER PIPES AND OTHER PERMANENT MONUMENTS. ANY OF THESE ITEMS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY A LICENSED LAND SURVEYOR AT THE CONTRACTORS EXPENSE, THIS MUST BE COMPLETED BEFORE THE CITY WILL ACCEPT THE IMPROVEMENTS AS COMPLETE.

12. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, AND THE RESPECTIVE REGULATORY AGENCY.CONTRACTOR SHALL REPAIR OR REPLACE ALL LANDSCAPING, CURBS, PAVEMENT, UTILITY SERVICE, ETC. DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY.

13. ALL WORK SHALL CONFORM TO ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CITY OF ALAMEDA STANDARD PLANS AND SPECIFICATIONS ADOPTED DECEMBER 18, 2012, AND ALL AMENDMENTS THERETO TO DATE, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND SPECIFICATIONS 2006, EXCEPT FOR CURB RAMPS THAT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT UPDATE OF NOVEMBER 15, 2013. AND SHALL COMPLY WITH THE STATE OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2012 EDITION, EXCEPT AS NOTED.

14. THE CONTRACTOR SHALL CAREFULLY READ ALL OF THE NOTES AND SPECIFICATIONS, THE CONTRACTOR SHALL BE SATISFIED AS TO THE TRUE MEANING AND INTENTION AND SHALL BE RESPONSIBLE FOR COMPLYING WITH EACH.

15. IT IS INTENDED THAT THESE PLANS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE ENGINEERS INTERPRETATION THEREOF SHALL BE CONCLUSIVE.

16. WHERE THE PLANS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.

17. ALL ITEMS IDENTIFIED TO BE SALVAGED SHALL BE BUNDLED AND DELIVERED TO CITY CORPORATION YARD LOCATED AT 1616 FORTMANN WAY, ALAMEDA, CA 94501.

18. THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL MECHANICAL; PIPING AND CONDUITS; STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.

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

20. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF ALAMEDA. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF ALAMEDA FOR USE OF WATER FROM FIRE HYDRANTS FOR CONSTRUCTION PURPOSES. THE PERMIT SHALL BE APPROVED BY THE CITY OF ALAMEDA FIRE DEPT.

21. THE INFORMATION SHOWN ON THE PLANS WITH REGARD TO THE EXISTING UTILITIES AND/OR IMPROVEMENTS WAS DERIVED FROM FIELD INVESTIGATIONS AND/OR RECORD INFORMATION. THE ENGINEER DOES NOT GUARANTEE THESE LOCATIONS TO BE EITHER TRUE OR EXACT. PRIOR TO CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL EXISTING IMPROVEMENTS AND TO EXPOSE ALL EXISTING UNDERGROUND UTILITIES RELATED TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, SEWER, STORM DRAIN, WATER, IRRIGATION, GAS, ELECTRICAL, ETC. AND SHALL NOTIFY THE ENGINEER IN WRITING FORTY-EIGHT (48) HOURS IN ADVANCE OF EXPOSING THE UTILITIES, SO THAT THE EXACT LOCATION AND ELEVATION CAN BE VERIFIED AND DOCUMENTED. IF LOCATION AND/OR ELEVATION DIFFERS FROM THAT SHOWN ON THE DESIGN PLANS, PROVISIONS TO ACCOMMODATE NEW LOCATION/ELEVATION MUST BE MADE

22. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) FORTY-EIGHT (48) HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600. THE CONTRACTOR SHALL RECORD THE U.S.A. ORDER NUMBER AND FURNISH ORDER NUMBER TO THE CITY AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTORS SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF UNDERGROUND SERVICE ALERT. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT. CONTRACTOR SHALL PERFORM VACUUM POTHOLING AND VERIFICATION OF POLE AND STORM DRAIN STRUCTURE LOCATIONS PRIOR TO ORDERING SIGNAL POLES, MAST ARMS, STORM DRAIN MANHOLES AND INLETS.

23. ALL PULL BOXES SHALL BE SUPPLIED WITH COVERS.

24. TRAFFIC SIGNAL EQUIPMENT POSITION SHALL BE VERIFIED BY THE ENGINEER AND MAINTENANCE STAFF PRIOR TO INSTALLATIONS.

25. INDIVIDUAL PHOTO CELL SHALL BE INSTALLED WITH EACH SAFETY LIGHT.

26. STREET NAME SIGN SHALL BE PER CITY STANDARD DRAWING 7025B, CASE 404.

27. ALL PULL BOXES SHALL BE No. 5 UNLESS OTHERWISE NOTED ON PLAN.

28. ALL VEHICLE SIGNAL HEADS SHALL HAVE 12" DIAMETER LED LENSES.

29. THE CONDUCTOR AND EQUIPMENT SCHEDULES ARE FURNISHED FOR INSTALLATION GUIDELINES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE CORRECT WIRING AND EQUIPMENT FOR THE INTENDED OPERATIONS.

30. LOCATIONS OF NEW EQUIPMENT SUCH AS POLES, PULL BOXES, CONTROLLER AND SERVICE CABINETS SHOWN ARE APPROXIMATE UNLESS OTHERWISE NOTED. BEFORE ANY CONSTRUCTION, THE CONTRACTOR SHALL CHECK FOR CONFLICTS WHETHER UNDERGROUND OR OVERHEAD. ALL LOCATIONS OF NEW EQUIPMENT SHALL BE MARKED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

31. AT ALL PCC CONFORMS DRILL 3" DEEP X 1/2" DIAMETER HOLES BETWEEN NEW AND EXISTING SIDEWALK (2' O.C.) AND BETWEEN NEW SIDEWAK AND EXISTING CURB (2' O.C.) AND BETWEEN NEW AND EXISTING CURB (TWO BARS 4-INCH ON CENTER). EPOXY GROUT 1/2" ROD 3" DEPTH IN EXISTING CONCRETE AND INTO NEW CONCRETE.

32. CONTRACTOR WILL BE PROVIDED WITH ELECTRONIC FILES FOR THE LAYOUT AND GRADING COMPONENTS OF THE IMPROVEMENT.

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BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12-30-14
SCALE NO SCALE

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

GENERAL NOTES

APPROVED BY

CITY ENGINEER

DATE

SHEET 2 OF 16

DWG. G-1.1

CASE

P:\P\11\11043-001 alameda pedestrian safety project #1\CAD\Plans\11043-001_GENERAL NOTES.dwg

PROJECT NOTES (FOR DRAWINGS EC-1.1, DU-1, CP-1.1, CP-1.2, SP-1 AND TS-1.1 ONLY):

1. CONSTRUCT CALTRANS CASE A CURB RAMP PER 2006 STD PLAN A88A, UPDATED MARCH 21, 2014. COLOR OF TRUNCATED DOMES SHALL BE BLACK.
2. CONSTRUCT PCC SIDEWALK PER COA STD PLAN 6297–24 REV3.
3. FURNISH AND INSTALL TWO POLARA EZ COMMUNICATOR NAVIGATOR 2–WIRE PUSH BUTTON STATIONS (EN2 PBS).
4. CONSTRUCT PCC CURB AND GUTTER PER COA STD PLAN 6297–24 REV3.
5. TRIM EXISTING CULVERT AND CONNECT TO NEW CULVERT.
6. FURNISH AND INSTALL 30" STORM DRAIN CULVERT OPENING PER COA STD PLAN 2723–14 REV5, SECTION C.
7. ADJUST EXISTING UTILITY BOX SUCH THAT THE LID IS FLUSH WITH FINISH GRADE.
8. REMOVE EXISTING STORM DRAIN CULVET PER LIMITS SHOWN ON PLAN.
9. REMOVE EXISTING STORM DRAIN CULVERT INLET/OUTLET.
10. CONNECT NEW STORM DRAIN PIPE TO EXISTING STORM DRAIN PIPE WITH RUBBER SEAL GASKET CONNECTION.
11. REMOVE EXISTING PAVEMENT MARKING BY GRINDING METHOD.
12. FURNISH AND INSTALL CALTRANS STANDARD THERMOPLASTIC STRIPING DETAIL 21 PER 2006 STD PLAN A20A.
13. FURNISH AND INSTALL CALTRANS STANDARD THERMOPLASTIC STRIPING DETAIL 8 PER 2006 STD PLAN A20A.
14. FURNISH AND INSTALL CALTRANS STANDARD THERMOPLASTIC STRIPING DETAIL 38A PER 2006 STD PLAN A20D.
15. FURNISH AND INSTALL CALTRANS STANDARD THERMOPLASTIC PAVEMENT MARKING TYPE I ARROW PER 2006 STD PLAN A24A.
16. FURNISH AND INSTALL CALTRANS STANDARD PAVEMENT MARKING TYPE IV (L) ARROW PER 2006 STD PLAN A24A.
17. FURNISH AND INSTALL 12" WIDE THERMOPLASTIC WHITE CROSSWALK STRIPING PER 2006 STD PLAN A20A.
18. FURNISH AND INSTALL 12" WIDE THERMOPLASTIC WHITE STOP BAR PER 2006 STD PLAN A20A.
19. RELOCATE EXISTING SIGN AND SIGN POST. INSTALL NEW FOUNDATION PER COA STD PLAN 5700–404 REV6.
20. REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT TO COA CORP. YARD.
21. FURNISH AND INSTALL CALTRANS TRAFFIC SIGNAL MAST ARM POLE AND TRAFFIC SIGNAL EQUIPMENT WITH FOUNDATION PER 2006 STD PLAN ES–7D.
22. FURNISH AND INSTALL CALTRANS TYPE 1–B POLE AND TRAFFIC SIGNAL EQUIPMENT WITH FOUNDATION PER 2006 STD PLAN ES–7B.
23. FURNISH AND INSTALL POLARA EZ COMMUNICATOR NAVIGATOR 2–WIRE PUSH BUTTON STATION (EN2 PBS).
24. RELOCATE EXISTING TRAFFIC SIGNAL HEAD WITH NEW MOUNTING BRACKET.
25. DEMOLISH AND REMOVE EXISTING PULL BOX.
26. RELOCATE EXISTING TRAFFIC REGULATORY SIGNS. MOUNTING BRACKETS AND MOUNTING HEIGHTS OF THESE SIGNS SHALL MATCH EXISTING CONDITION.
27. FURNISH AND INSTALL CALTRANS PPB POST WITH FOUNDATION PER 2006 STD PLAN ES–7A.
28. FURNISH AND INSTALL NEW PULL BOX PER 2006 STD PLAN ES–8A.
29. REMOVE AND SALVAGE EXISTING VEHICLE SIGNAL HEAD TO COA CORP. YARD.
30. FURNISH AND INSTALL 12" LED 3–SECTION SIGNAL HEAD WITH RED, YELLOW AND GREEN LEFT ARROWS.
31. FURNISH AND INSTALL 30" STORM DRAIN CULVERT PER COA STD PLAN 2723–14 REV5.
32. CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
33. FURNISH AND INSTALL NEW PULL BOX OVER EXISTING CONDUIT RUN. SPLICE EXISTING CONDUCTORS TO NEW CONDUCTORS.
34. RELOCATE EXISTING PARKING METER AND POST. ABANDON EXISTING PARKING METER FOUNDATION. CONSTRUCT 2'X2'X2' CONCRETE FOUNDATION AT NEW PARKING METER LOCATION THAT IS SHOWN ON CONSTRUCTION PLAN. PARKING METER AND POST SHALL BE INSTALLED AT THE CENTER OF THE NEW FOUNDATION. CONCRETE FOUNDATION MATERIAL SHALL MATCH CONCRETE FOUNDATION MATERIAL FOR CALTRANS TRAFFIC SIGNAL POLES.
35. FURNISH AND INSTALL NEW CONDUIT INTO EXISTING PULL BOX.
36. RELOCATE EXISTING 1–B POLE AND TRAFFIC SIGNAL EQUIPMENT. UPGRADE TRAFFIC SIGNAL HEAD AND MOUNTING BRACKET PER THIS DRAWING AND CORRESPONDING EQUIPMENT SCHEDULE. REMOVE TOP 1–FT OF EXISTING FOUNDATION AND BACKFILL WITH PAVEMENT MATERIAL THAT MATCH WITH SURROUNDING PAVEMENT.
37. CONSTRUCT NEW 1–B POLE FOUNDATION PER CALTRANS STANDARD PLANS ES–7B.
38. REMOVE EXISTING CONDUCTORS AND ABANDON EXISTING CONDUIT.
39. CONTRACTOR SHALL COORDINATE WITH EBMUD TO RELOCATE EXISTING FIRE HYDRANT. RELOCATION OF FIRE HYDRANT AND CORRESPONDING WATER LATERAL MODIFICATION SHALL BE PERFORMED BY EBMUD.
40. ADJUST EXISTING STORM DRAIN HANDHOLE FRAME AND LID SUCH THAT THE LID IS FLUSH WITH FINISH GRADE.
41. REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET WITH METER. ABANDON FOUNDATION. RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT TO NEW TRAFFIC SIGNAL CONTROLLER CABINET.
42. FURNISH AND INSTALL TYPE III–AF SERVICE PEDESTAL WITH NEW FOUNDATION PER CALTRANS STANDARD PLANS, PLAN ES–2D.
43. FURNISH AND INSTALL TYPE P TRAFFIC SIGNAL CONTROLLER CABINET WITH NEW FOUNDATION PER DETAIL ON DRAWING TS–1.2.
44. ABANDON EXISTING CONDUIT AND REMOVE EXISTING CONDUCTORS.
45. RELOCATE EXISTING TRASH RECEPTACLE.
46. PAINT RED CURB.
47. PAINT GREEN CURB.
48. FURNISH AND INSTALL THERMOPLASTIC END PARKING TEE PER MUTCD REQUIREMENTS.
49. REMOVE AND SALVAGE EXISTING PARKING METER. REMOVE TOP 1' OF FOUNDATION.
50. FURNISH AND INSTALL BLUE REFLECTIVE PAVEMENT MARKER PER MUTCD REQUIREMENTS.

ABBREVATIONS

AC	ASPHALT CONCRETE
BW	BACK OF WALK
BL	BUILDING
C	CONCRETE
EG	EXISTING GROUND
FC	FACE OF CURB
FG	FINISH GRADE
FL	FLOW LINE
GB	GRADE BREAK
GR	GRATE
HP	HIGH POINT
LED	LIGHT EMITTED DIODE
LIP	LIP OF GUTTER
P	PAVEMENT
PCC	PORTLAND CEMENT CONCRETE
PPB	PEDESTRIAN PUSH BUTTON
ROW	RIGHT OF WAY
TC	TOP OF CURB
SD	STORM DRAIN
STD	STANDARD
CORP	CORPORATION
COA	CITY OF ALAMEDA

LEGEND:

EXISTING	PROPOSED	
		POLE LOCATION
		LED VEHICLE SIGNAL HEAD (WITH BACKPLATE, 3–SECTION: RED, YELLOW AND GREEN)
		LED VEHICLE SIGNAL HEAD (WITHOUT BACKPLATE, 3–SECTION: RED, YELLOW AND GREEN)
		LED VEHICLE SIGNAL HEAD (WITH BACKPLATE, 3–SECTION: RED, YELLOW AND GREEN LEFT ARROWS)
		LED VEHICLE SIGNAL HEAD (WITHOUT BACKPLATE, 3–SECTION: RED, YELLOW AND GREEN LEFT ARROWS)
		PEDESTRIAN SIGNAL HEAD
		SAFETY LIGHTING
		SIGNAL POLE WITH MAST ARM
		TRAFFIC SIGNAL CONTROLLER CABINET ASSEMBLY
		PULL BOX
ø1p	ø2P	PEDESTRIAN SIGNAL PHASE
ø4	ø4	TRAFFIC SIGNAL PHASE
		STREET LIGHT
		GUY WIRE
		FIRE HYDRANT
		STORM DRAIN CULVERT INLET/OUTLET
		STORM SEWER MANDHOLE
		SIGNAGE AND SIGN POST
		EROSION CONTROL INLET PROTECTION
		PARKING METER
		UNDERGROUND UTILITY VAULT
sd	SD	STORM DRAIN PIPE
R/W		RIGHT–OF–WAY
		REMOVE EXISTING SIDEWALK, CURB AND GUTTER TO SUBGRADE
		REMOVE EXISTING AC PAVEMENT AND BASE ROCK TO SUBGRADE
		FLOW DIRECTION
		TREE
		PROPOSED CITY STANDARD CURB/GUTTER
		IN–ROAD WARNING LIGHT
		PUSH BUTTON ON POLE
		YIELD LINE MARKING
		8" DEEP, 1' WIDE FULL DEPT AC

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Fax: 510–268–1739

REGISTERED PROFESSIONAL ENGINEER THOMAS J. KRAKOW C48381 CIVIL STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F. CHEONG
DRAWN A. HA
CHECKED T. KRAKOW
DATE 12–30–14 SCALE NO SCALE

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

CONSTRUCTION NOTES, ABBREVIATION AND LEGEND

APPROVED BY
CITY ENGINEER
DATE
SHEET 3 OF 16
DWG. GN-1.2
CASE

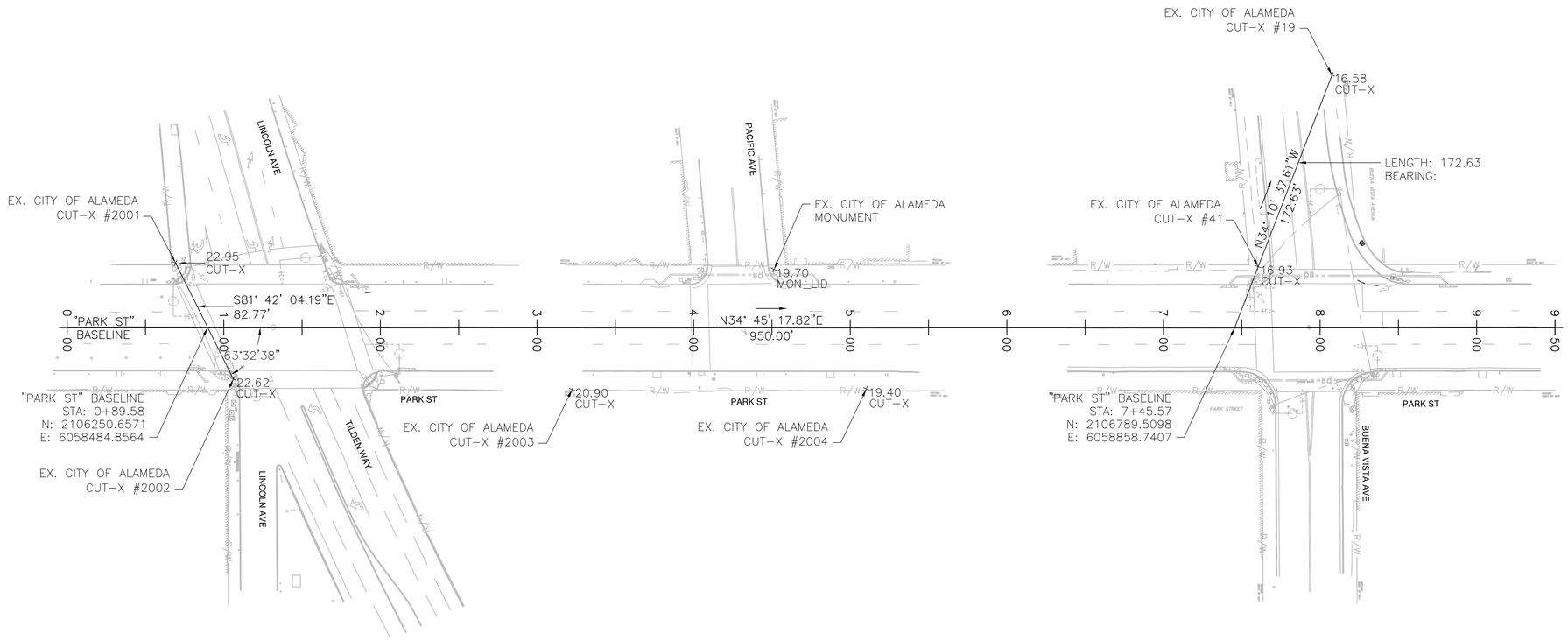
P:\P\11\11043-001 alameda pedestrian safety project #1\CAD\PM\043-001_CONSTRUCTION NOTES ABBREVIATION LEGEND.dwg

Control Point Table				
Point #	Northing	Easting	Elevation	Raw Description
2001	2106257.2783	6058439.4635	22.950	CUT-X
2002	2106245.3323	6058521.3620	22.620	CUT-X
2003	2106419.1964	6058650.0678	20.900	CUT-X
2004	2106573.8456	6058756.8867	19.400	CUT-X

Control Point Table				
Point #	Northing	Easting	Elevation	Raw Description
19	2106932.3261	6058761.7662	16.580	CUT-X
41	2106823.8520	6058835.4218	16.930	CUT-X

NOTES:

1. SEE DRAWING G-1.1 FOR GENERAL NOTES.
2. THE BENCHMARK FOR ALL THE SITES IS THE U.S.C. & G.S. MONUMENT AT THE NW CORNER OF PACIFIC AND PARK. ELEVATION 18.85 FT.



SCALE: 0 20 40

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REGISTERED PROFESSIONAL ENGINEER THOMAS J. KRAKOW C48381 EXP. 6/30/16 CIVIL STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12-30-14
SCALE AS SHOWN

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

HORIZONTAL CONTROL PLAN

APPROVED BY

CITY ENGINEER

DATE

SHEET 4 OF 16

DWG. HC-1

CASE

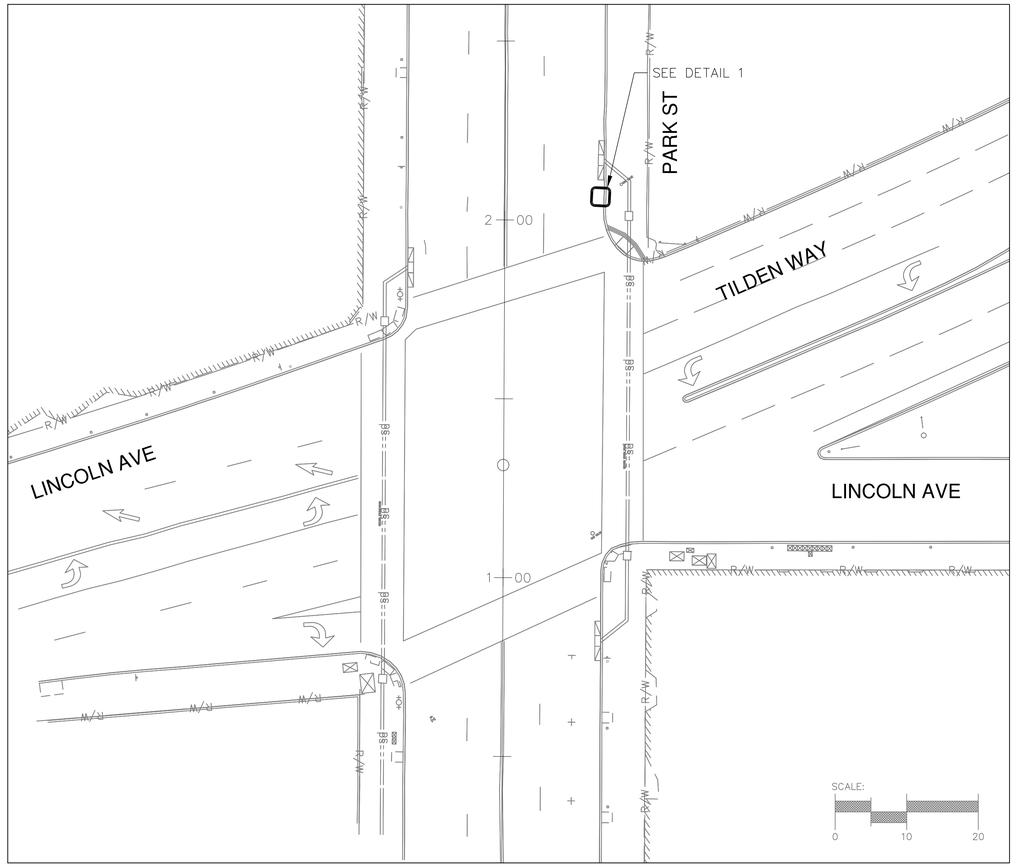
P:\P\11\11043-001 Alameda Pedestrian Safety Project #1\CAD\Drawings\Plan\043-001_HORIZONTAL CONTROL PLAN.dwg

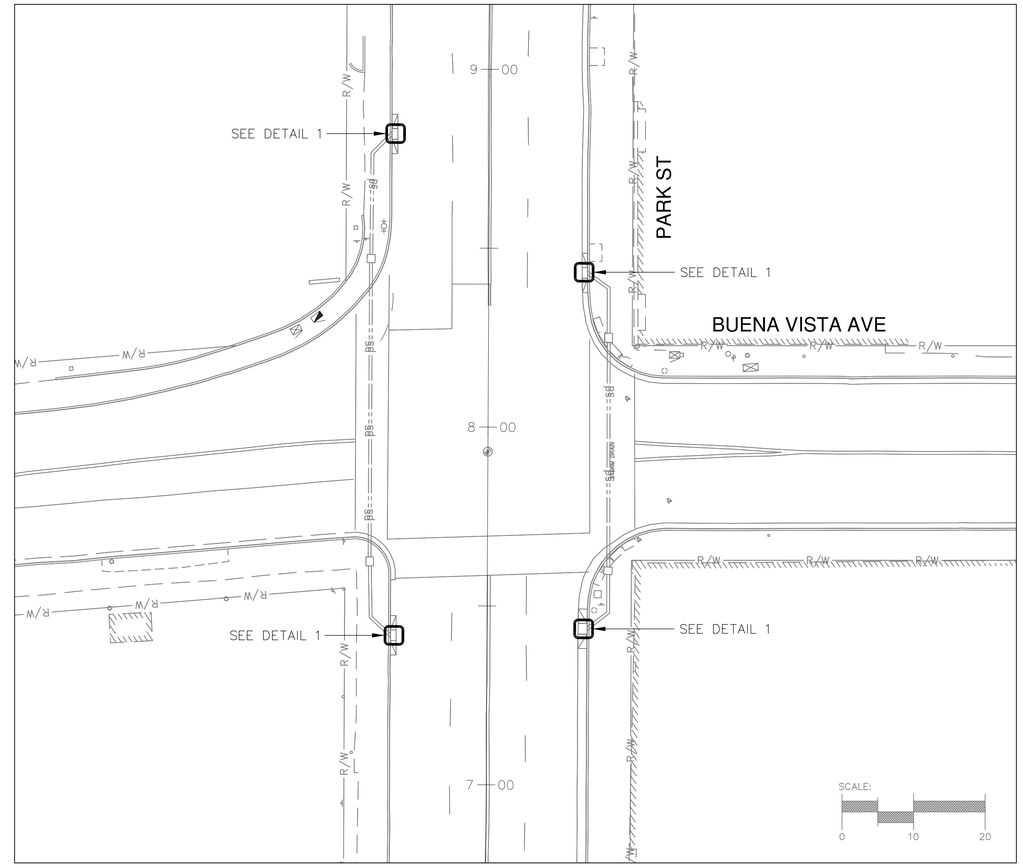
NOTES:

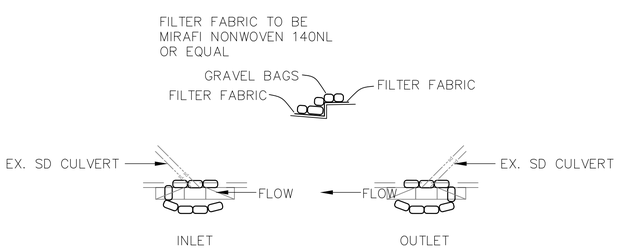
1. SEE DRAWING G-1.1 FOR GENERAL NOTES AND DRAWING GN-1.2 FOR CONSTRUCTION NOTES, ABBREVIATION AND LEGEND.

EROSION CONTROL NOTES (THIS SHEET ONLY):

1. GRAVEL BAGS TO BE FILLED WITH PEA GRAVEL.
2. INSTALL FILTER FABRIC BETWEEN FRAME AND GRATE ON ALL EXISTING AND NEW DRAINAGE STRUCTURES IN WORK AREA.
3. UPON COMPLETION OF THE EROSION CONTROL WORK THROUGH THE RAINY SEASON AT LEAST EVERY TWO WEEKS SHOWN ON THESE PLANS, THE SITE SHALL BE INSPECTED AND AFTER EACH RAIN STORM. REPAIRS SHOULD BE MADE AS REQUIRED. THE MATERIALS REQUIRED TO MAINTAIN OR REPLACE EROSION CONTROL FACILITIES SHALL BE STOCKPILED ON SITE AT ALL TIMES AFTER OCTOBER 15.
4. CONTRACTOR SHALL FOLLOW THE BMPS FROM RWQCB DURING CONSTRUCTION OF THE PROJECT.
5. PROTECT NEW INLETS AND MANHOLE WHEN INSTALLED







1 — INLET/OUTLET PROTECTION
SCALE: N.T.S.

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REGISTERED PROFESSIONAL ENGINEER THOMAS J. KRAKOW C48381 EXP. 6/30/16 CIVIL STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12-30-14 SCALE 1" = 20'

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

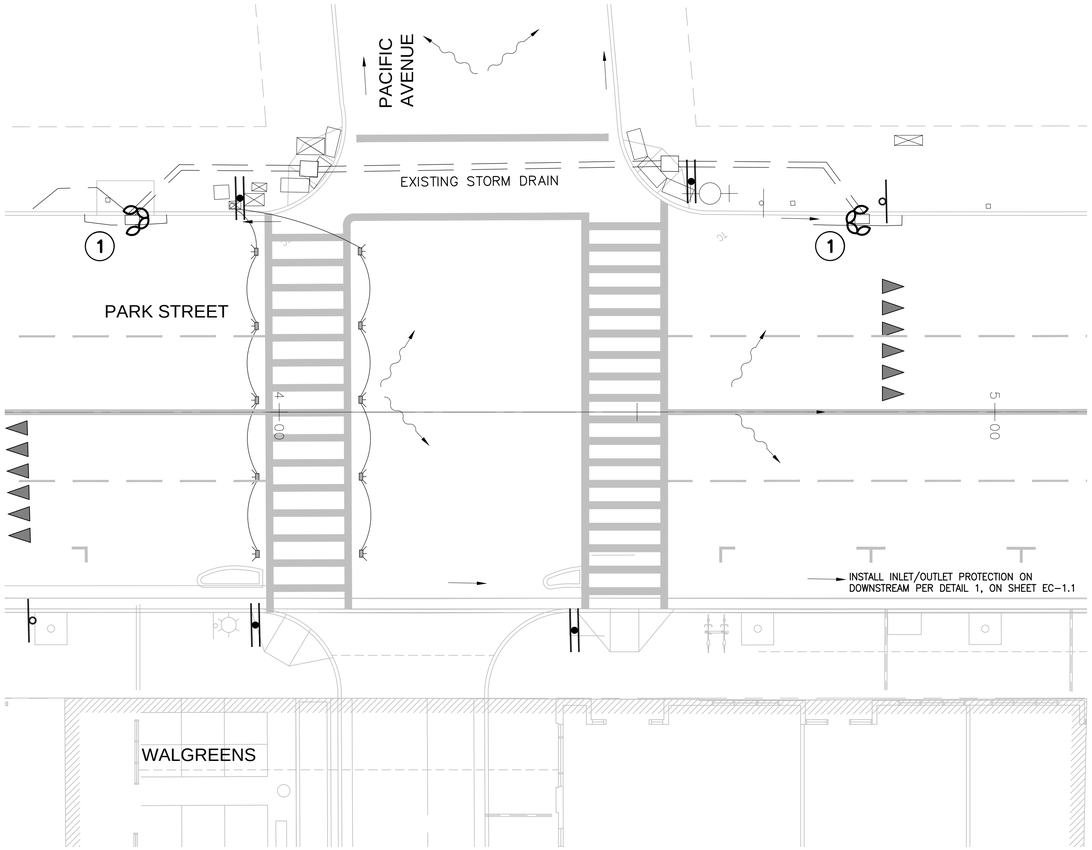
PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

EROSION CONTROL PLAN – PARK & LINCOLN, PARK & BUENA VISTA

APPROVED BY
CITY ENGINEER
DATE

SHEET 5 OF 16
DWG. EC-1.1
CASE

P:\P\11\11043-001 Alameda Pedestrian Safety Project #1\CAD\Plans\28x42\Sht02_PM043-001_EROSION CONTROL PLAN.dwg



EROSION CONTROL NOTES

1. ALL EROSION CONTROL MEASURES, EQUIPMENT, AND MATERIAL SHALL BE AS SHOWN ON DETAIL 1, SHEET EC-1.1.
2. EROSION CONTROL IS REQUIRED AT ALL TIMES.
3. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
4. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY.
5. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS, SILT FENCES AND DE-SILTING BASINS, ETC.
6. INFORMATION ON THIS PLAN IS FOR EROSION CONTROL ONLY. ALL OTHER INFORMATION IS SUBJECT TO CHANGE.
7. CONFORMANCE WITH THE REQUIREMENTS OF THIS PLAN SHALL IN NO WAY RELIEVE THE DEVELOPER FROM HIS RESPONSIBILITIES TO THIS SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT.
8. FILL AREAS WHILE BEING BROUGHT UP TO GRADE AND DURING PERIODS OF COMPLETION PRIOR TO FINAL GRADE, SHALL BE PROTECTED BY VARIOUS MEASURES TO ELIMINATE EROSION AND THE SILTATION OF DOWNSTREAM FACILITIES AND ADJACENT AREAS. THESE MEASURES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO: TEMPORARY DOWN-DRAINS, EITHER IN THE FORM OF PIPES OR PAVED DITCHES WHICH PROTECT CUT-FILL AREAS; GRADED BERMS AROUND AREAS TO ELIMINATE EROSION OF FILL SLOPES BY SLOPE DITCHES TO DE-SILT RUNOFF; PROTECTION SUCH AS SAND BAGS AROUND INLETS WHICH HAVE NOT BEEN BROUGHT UP TO GRADE; AND EARTH BERMS AND APPROPRIATE GRADING TO DIRECT DRAINAGE AWAY FROM THE EDGE OF THE TOP OF SLOPES SHALL BE CONSTRUCTED AND MAINTAINED ON THOSE FILL AREAS WHERE EARTHWORK OPERATIONS ARE NOT IN PROGRESS.
9. THE PERMIT AND RESOURCES MANAGEMENT DEPARTMENT APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER, AND THE OWNER FROM RESPONSIBILITY FOR THE CORRECTION OF ERROR AND/OR OMISSION DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE PERMIT AND RESOURCES MANAGEMENT DEPARTMENT FOR APPROVAL.
10. ALL DISTURBED SOIL SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER GRADING HAS OCCURRED.

LEGEND

- CONCENTRATED FLOW
- GRAVEL BAGS
- SHEET FLOW
- (1) INSTALL INLET/OUTLET PROJECTION PER DETAIL 1, ON SHEET EC-1.1

Stantec
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1340 Treat Blvd. Suite 300
Walnut Creek, CA U.S.A. 94597
Tel. 925.941.1400
Fax. 925.941.1401
www.stantec.com

REGISTERED PROFESSIONAL ENGINEER
JOY BHATTACHARYA
No. 68928
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED A.HA
DRAWN A.HA
CHECKED J.BHATTACHARYA
DATE 3-23-15
SCALE 1"=10'

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENT PROJECT

EROSION CONTROL PLAN
PARK / PACIFIC

APPROVED BY
CITY ENGINEER
DATE

SHEET 6 OF 16
DWG. EC-1.2
CASE

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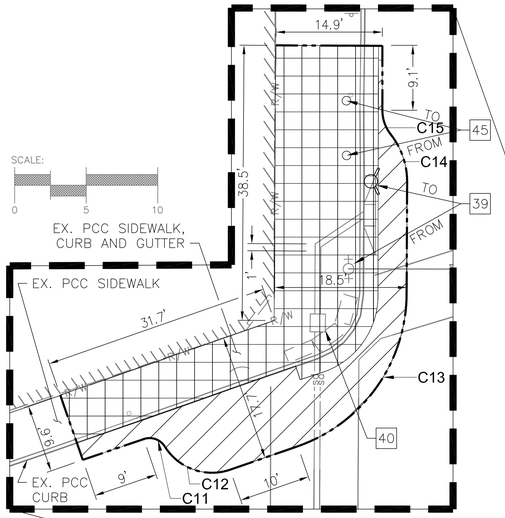
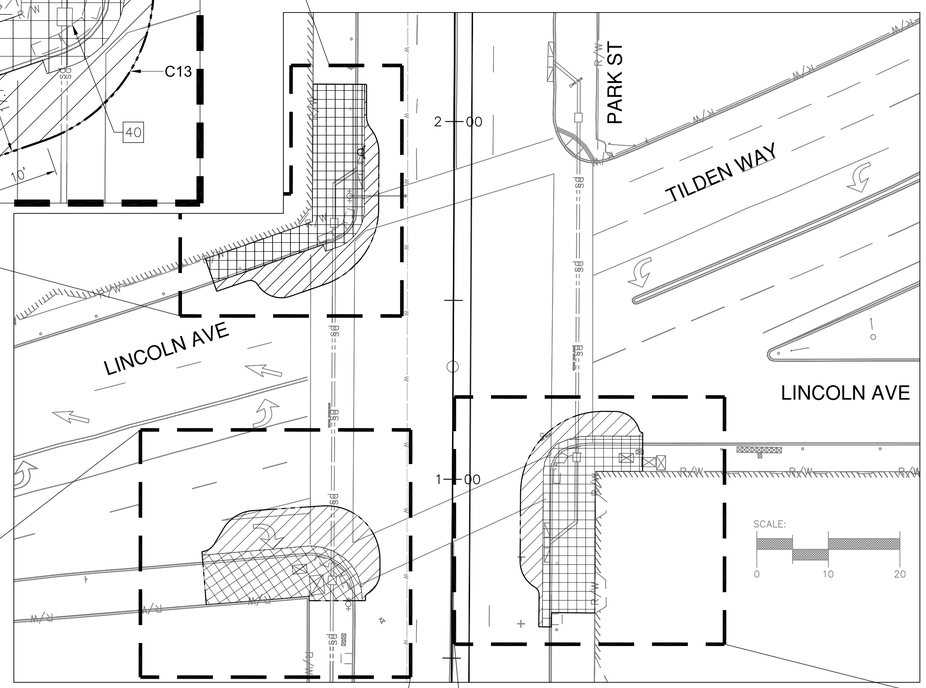
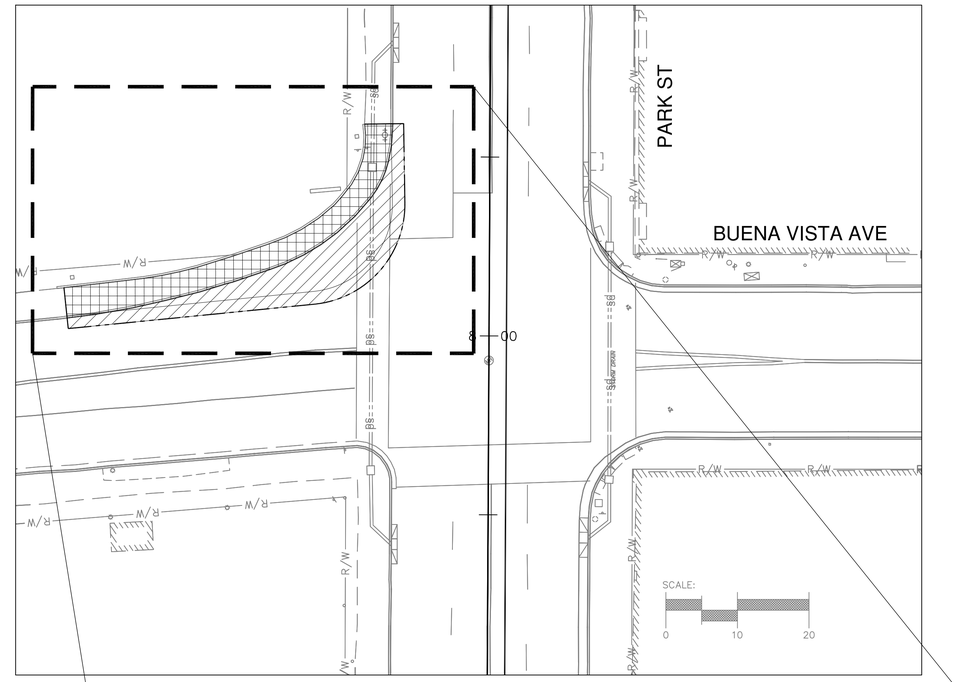
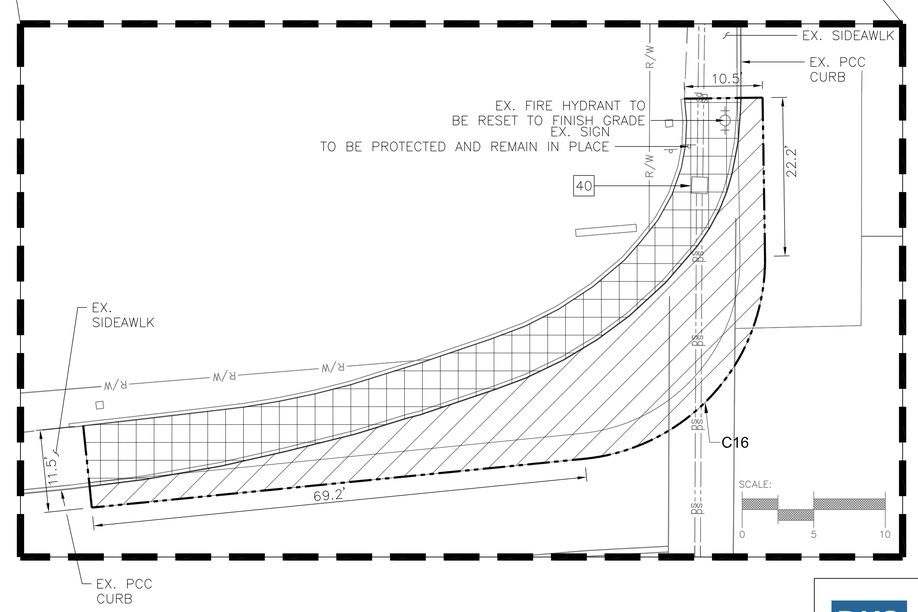
NOTES:

1. SEE DRAWING G-1.1 FOR GENERAL NOTES AND DRAWING GN-1.2 FOR CONSTRUCTION NOTES, ABBREVIATION AND LEGEND.
2. REFER TO DRAWING TS-1.1 FOR REMOVAL AND RELOCATION OF TRAFFIC SIGNAL EQUIPMENT.
3. REFER TO DRAWING SP-1 FOR RELOCATION OF PARKING METERS.

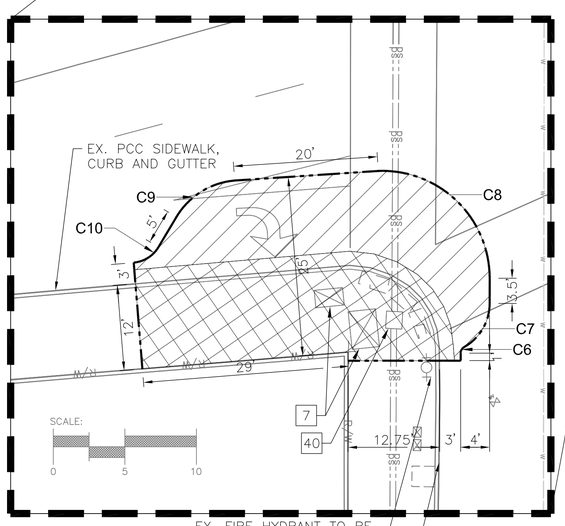


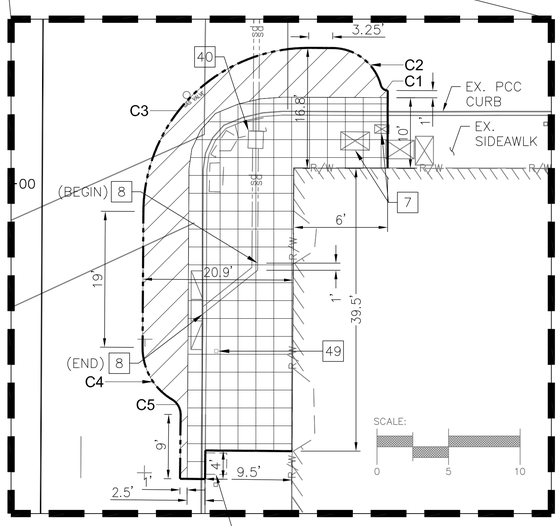






CURVE TABLE			
CURVE #	RADIUS	LENGTH	DELTA
C1	1.0	1.303	074.634
C2	7.0	9.143	074.833
C3	23.0	36.083	089.886
C4	8.4	8.771	059.799
C5	2.4	2.514	060.013
C6	1.0	1.056	060.520
C7	7.0	7.386	060.453
C8	15.0	24.120	092.039
C9	10.5	9.960	054.352
C10	4.5	4.253	054.156
C11	2.5	3.374	077.320
C12	7.7	10.458	077.320
C13	22.6	27.883	070.611
C14	10.6	7.169	038.615
C15	5.4	3.630	038.615
C16	28.0	41.630	085.187





LEGEND (FOR THIS DRAWING ONLY):

—·—·— SAWCUT

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REGISTERED PROFESSIONAL ENGINEER THOMAS J. KRAKOW C48381 EXP. 6/30/15 CIVIL STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12-30-14
SCALE AS SHOWN

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

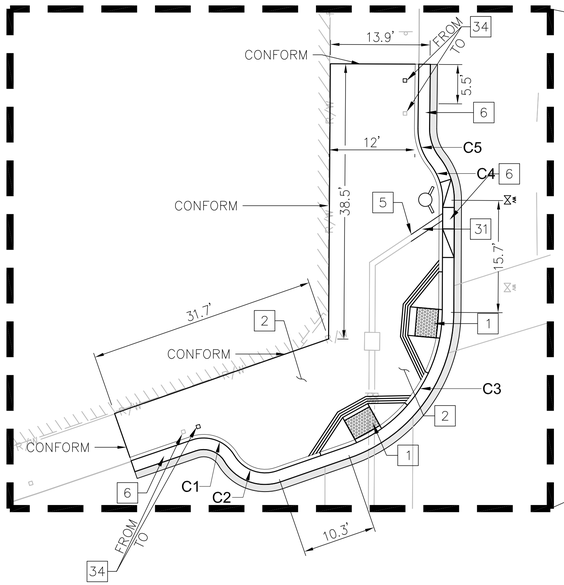
PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

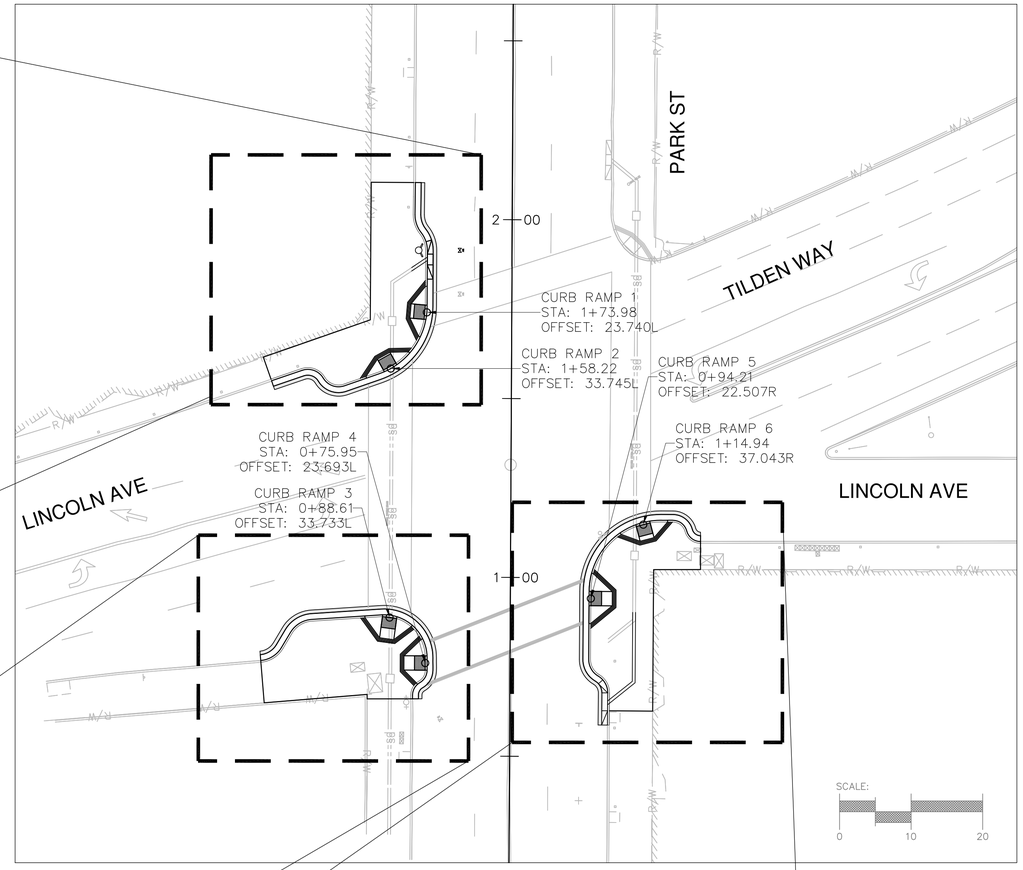
DEMOLITION AND UTILITY PLAN – PARK & LINCOLN, PARK & BUENA VISTA

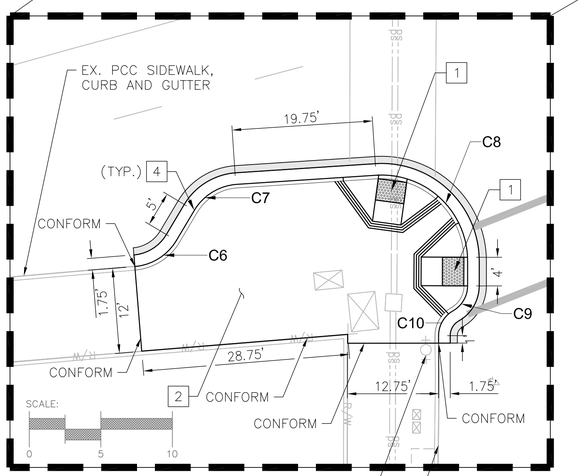
APPROVED BY
CITY ENGINEER
DATE

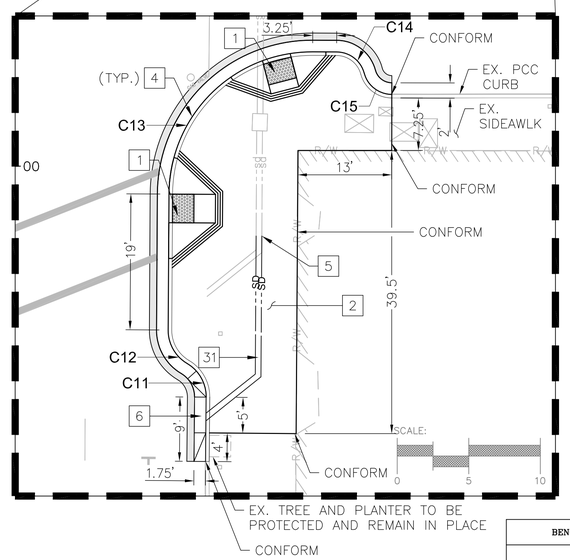
SHEET 7 OF 16
DWG. DU-1
CASE

P:\P\11\11043-001 Alameda Pedestrian Safety Project #1\040 Plans\02 Exhibit\PM043-001_DEMOLITION AND UTILITY PLAN.dwg









NOTES:

1. SEE DRAWING G-1.1 FOR GENERAL NOTES AND DRAWING GN-1.2 FOR CONSTRUCTION NOTES, ABBREVIATION AND LEGEND.

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
C1	6.810	5.0	078.035
C2	6.779	5.0	077.686
C3	24.648	20.0	070.611
C4	5.400	8.0	038.615
C5	5.400	8.0	038.615
C6	7.107	7.5	054.291
C7	7.107	7.5	054.291
C8	19.635	12.0	093.748
C9	4.220	4.0	060.453
C10	4.225	4.0	060.520
C11	5.656	5.4	060.013
C12	5.639	5.4	059.826
C13	31.376	20.0	089.886
C14	5.229	4.0	074.904
C15	5.219	4.0	074.752

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REGISTERED PROFESSIONAL ENGINEER
THOMAS J. KRAKOW
C48381
Exp. 06/30/16
CIVIL
STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12-30-14
SCALE

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

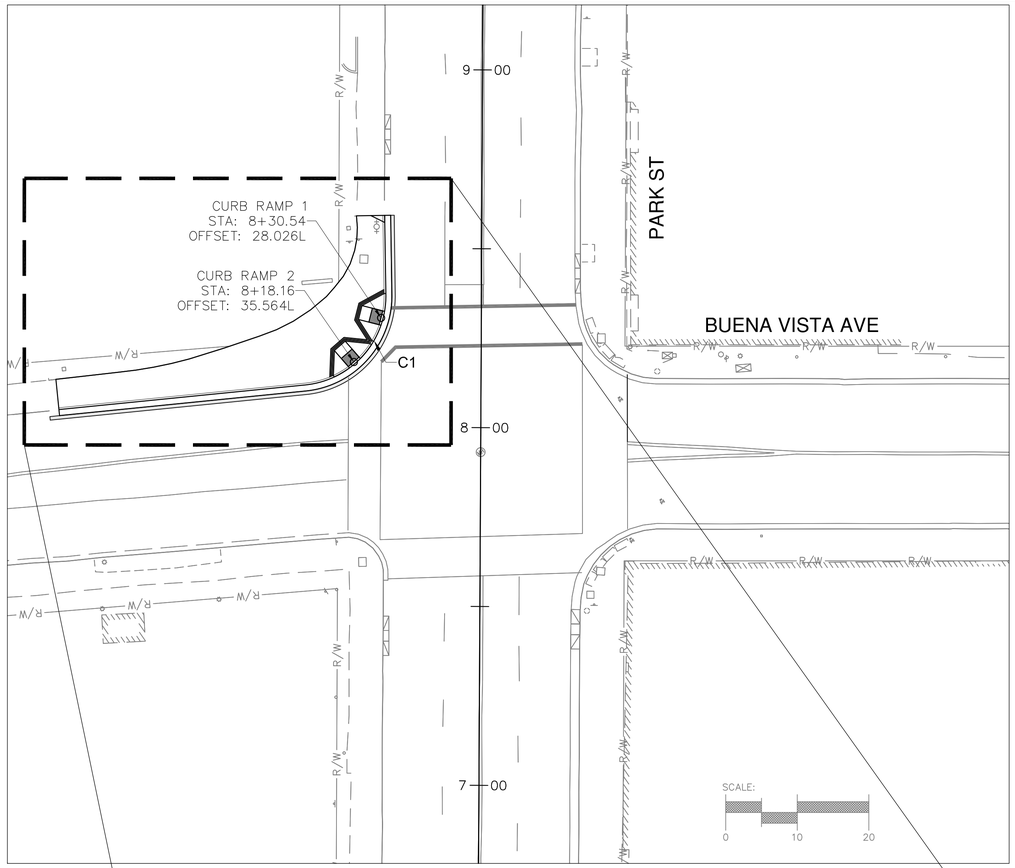
PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

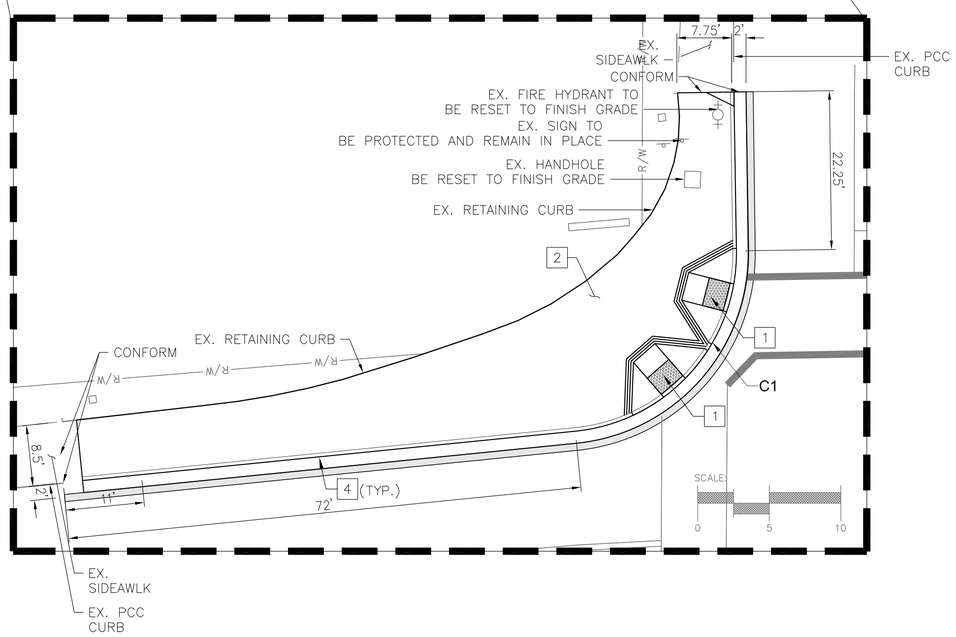
CONSTRUCTION PLAN – PARK & LINCOLN

APPROVED BY
CITY ENGINEER
DATE

SHEET 8 OF 16
DWG. CP-1.1
CASE

P:\P\11\11043-001 Alameda Pedestrian Safety Project #1\CAD\Plans\11043-001_LAYOUT PLAN 1.dwg





NOTES:

1. SEE DRAWING G–1.1 FOR GENERAL NOTES AND DRAWING GN–1.2 FOR CONSTRUCTION NOTES, ABBREVIATION AND LEGEND.
2. SEE DRAWING GD–1.2 FOR FINAL GRADES.

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	37.170	25.0	085.187

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REGISTERED PROFESSIONAL ENGINEER
THOMAS J. KRAKOW
C48381
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12–30–14
SCALE AS SHOWN

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

CONSTRUCTION PLAN – PARK & BUENA VISTA

APPROVED BY

CITY ENGINEER

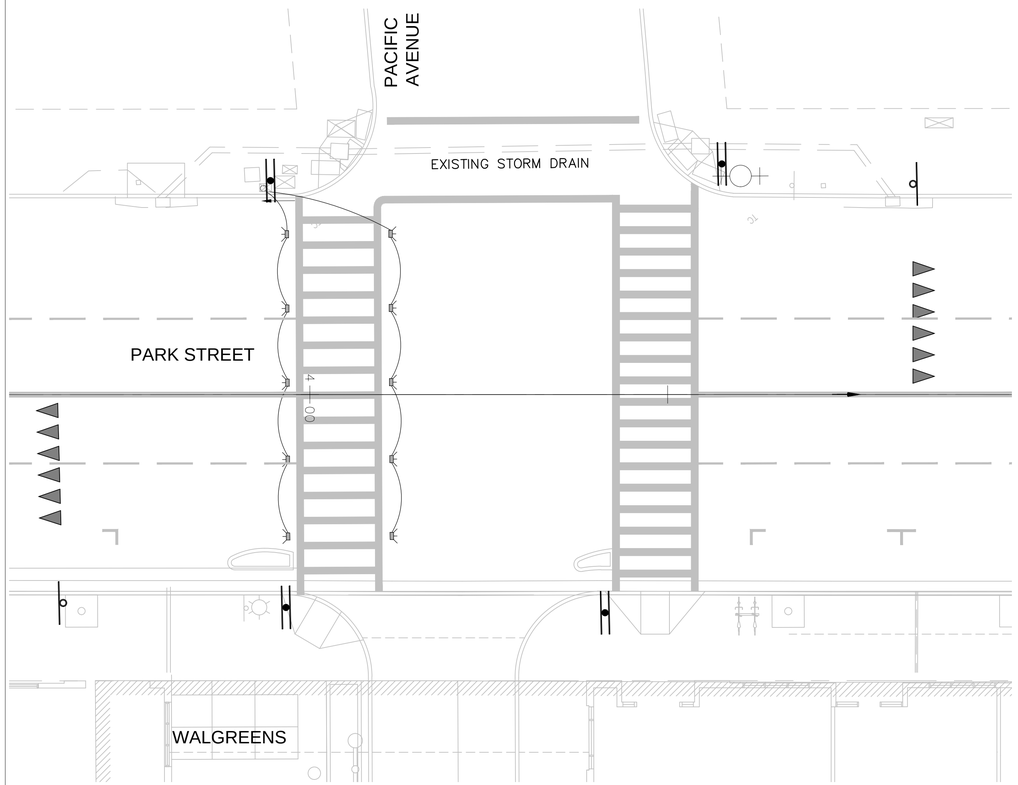
DATE

SHEET 9 OF 16

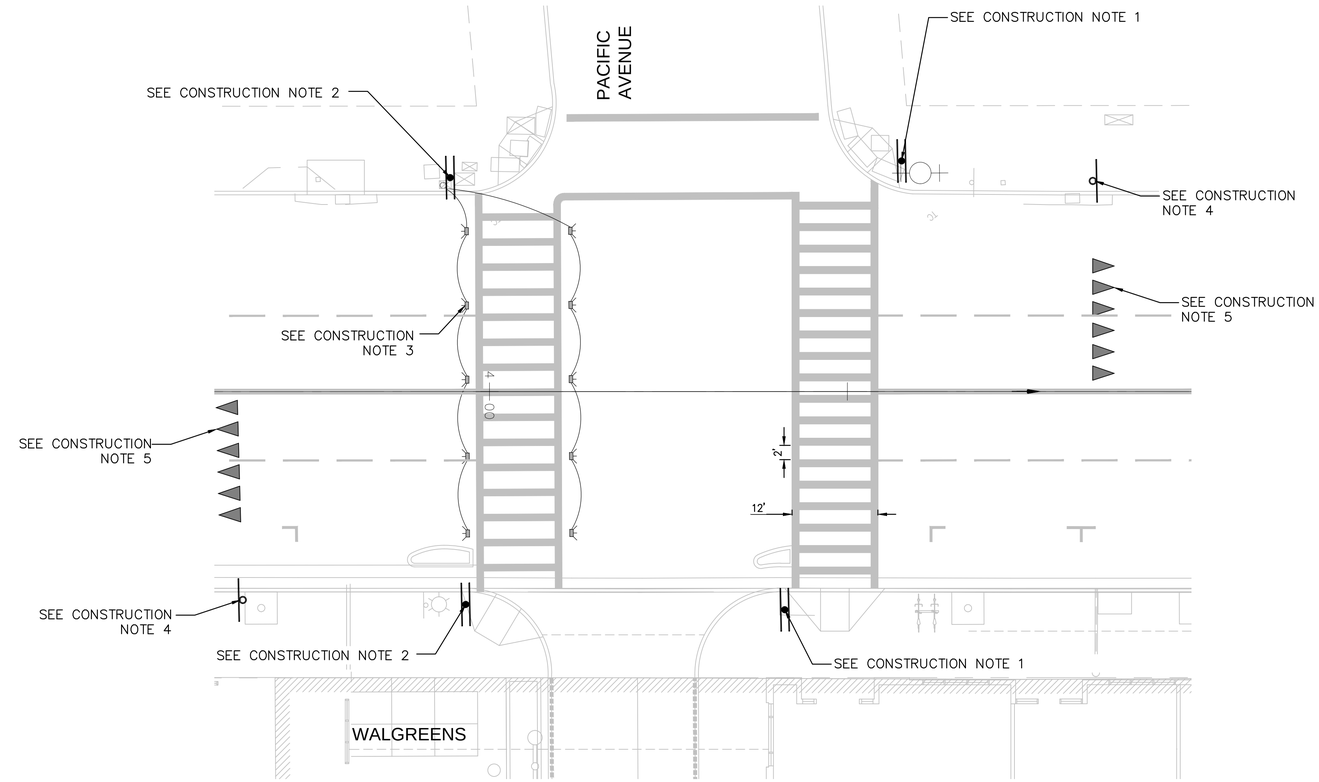
DWG. CP-1.2

CASE

P:\P\11\11043–001 alameda pedestrian safety project #1\CAD\Plans\24x36\PH\043–001_LAYOUT PLAN 2.dwg



STRIPED BULB-OUT PLAN



STRIPING AND SIGNAGE PLAN

SCALE: 0 10 20

SCALE: 0 10 20

CONSTRUCTION NOTES:

1. FURNISH AND INSTALL WIRELESS SOLAR, LED RECTANGULAR RAPID FLASHING BEACON (RRFB) CROSSWALK SYSTEM ON STANDARD TYPE 15–FBS POLE. THE RRFB SYSTEM SHOULD BE R920 MODEL FROM CARMANAH OR APPROVED EQUAL. SYSTEM COMPONENTS SHALL INCLUDE BUT NOT LIMITED TO: SOLAR PANEL CONTROLLER WITH RADIO COMMUNICATION CAPABILITY. FURNISH AND INSTALL SIGN W11–2 AND W16–7P [DOUBLE SIDED]. RRFB – BACK TO BACK [DOUBLE SIDED] WITH PEDESTRIAN INDICATION LIGHT. FURNISH AND INSTALL POLARA NAVIGATOR PEDESTRIAN PUSH BUTTON WITH AUDIO MESSAGE PER CALTRANS DETAIL C ON ES–7A, WITH "CROSS WITH CAUTION" SIGNAGE. POLE AND FOUNDATION (CALTRANS COMBINED STREET SIGN PEDESTRIAN PUSH BUTTON POST) PER DETAIL A, SHEET C–501. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS IN THE FIELD WITH THE CITY.
2. REMOVE AND SALVAGE EXISTING SIGNAGE AND PEDESTRIAN PUSH BUTTON ON EXISTING POLE. EXISTING POLE TO REMAIN. FURNISH AND INSTALL WIRELESS SOLAR, LED RECTANGULAR RAPID FLASHING BEACON (RRFB) CROSSWALK SYSTEM ON EXISTING POLE. THE RRFB SYSTEM SHOULD BE R920 MODEL FROM CARMANAH OR APPROVED EQUAL. SYSTEM COMPONENTS SHALL INCLUDE BUT NOT LIMITED TO: SOLAR PANEL CONTROLLER WITH RADIO COMMUNICATION CAPABILITY. FURNISH AND INSTALL SIGN W11–2 AND W16–7P [DOUBLE SIDED]. RRFB – BACK TO BACK [DOUBLE SIDED] WITH PEDESTRIAN INDICATION LIGHT. FURNISH AND INSTALL POLARA NAVIGATOR PEDESTRIAN PUSH BUTTON WITH AUDIO MESSAGE PER CALTRANS DETAIL ES–7A, WITH "CROSS WITH CAUTION" SIGNAGE. POLE AND FOUNDATION (CALTRANS COMBINED STREET SIGN PEDESTRIAN PUSH BUTTON POST) PER DETAIL A, SHEET C–501. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS IN THE FIELD WITH THE CITY.
3. REMOVE AND SALVAGE ALL EXISTING IN–PAVEMENT FLASHER UNITS AND CONTROL EQUIPMENT. BACKFILL REMOVED IN–PAVEMENT FLASHERS LOCATIONS WITH AC. DELIVER SALVAGED IN–PAVEMENT FLASHER UNITS AND CONTROL EQUIPMENT TO CITY OF ALAMEDA CORPORATION YARD.
4. FURNISH AND INSTALL R1–5A ON NEW 2" GALVANIZED POLE. LOCATION SHALL BE APPROVED BY THE CITY PRIOR TO INSTALLATION.
5. INSTALL WHITE THERMOPLASTIC YIELD LINES, 30' IN ADVANCE OF CROSSWALK, PER FIGURE 3B–14 (CA) AND 38–15 OF THE 2012 CA–MUTCD.
6. RESERVED.
7. RESERVED.
8. WORK SHALL NOT BEGIN UNTIL ADEQUATE TRAFFIC CONTROL DEVICES ARE IN PLACE AS APPROVED BY THE CITY OF ALAMEDA.
9. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION OF THIS PROJECT. THIS INCLUDES THE SAFETY OF ALL PERSONS AND PROPERTY, PURSUANT TO THE PROVISIONS OF OSHA AND ITS REGULATIONS FOR THE PROTECTION OF WORK, STRUCTURES, SHORING AND OTHER IMPROVEMENTS. THE REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
10. ALL STREET MONUMENTS, LOT CORNER PIPES AND OTHER PERMANENT MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTORS EXPENSE, THIS MUST BE COMPLETED BEFORE THE CITY WILL ACCEPT THE IMPROVEMENTS AS COMPLETE.
11. CONTRACTOR SHALL REPAIR OR REPLACE ALL LANDSCAPING, CURBS, UTILITY SERVICE, ETC. DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY.
12. ALL WORK SHALL CONFORM TO STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND SPECIFICATIONS 2006. AND SHALL COMPLY WITH THE STATE OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2012 EDITION, EXPECT AS NOTED ON THE CONSTRUCTION DOCUMENTS.

LEGEND

- CONCENTRATED FLOW
- SHEET FLOW
- PAINT CURB FACE AND TOP WITH WHITE REFLECTIVE PAINT
- CLEAR RAISED PAVEMENT REFLECTORS EPOXY CEMENTED TO FACE OF CURB

Stantec
Stantec Consulting Inc.
1340 Treat Blvd. Suite 300
Walnut Creek, CA U.S.A. 94597
Tel. 925.941.1400
Fax. 925.941.1401
www.stantec.com

REGISTERED PROFESSIONAL ENGINEER JOY BHATTACHARYA No. 68928 EXP. 9-30-17 CIVIL STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED A.HA
DRAWN A.HA
CHECKED J.BHATTACHARYA
DATE 3–23–15
SCALE 1"=10'

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENT PROJECT

CONSTRUCTION PLAN AND STRIPING PLAN PARK / PACIFIC

APPROVED BY

CITY ENGINEER

DATE

SHEET 10 OF 16

DWG. CP-1.3

CASE

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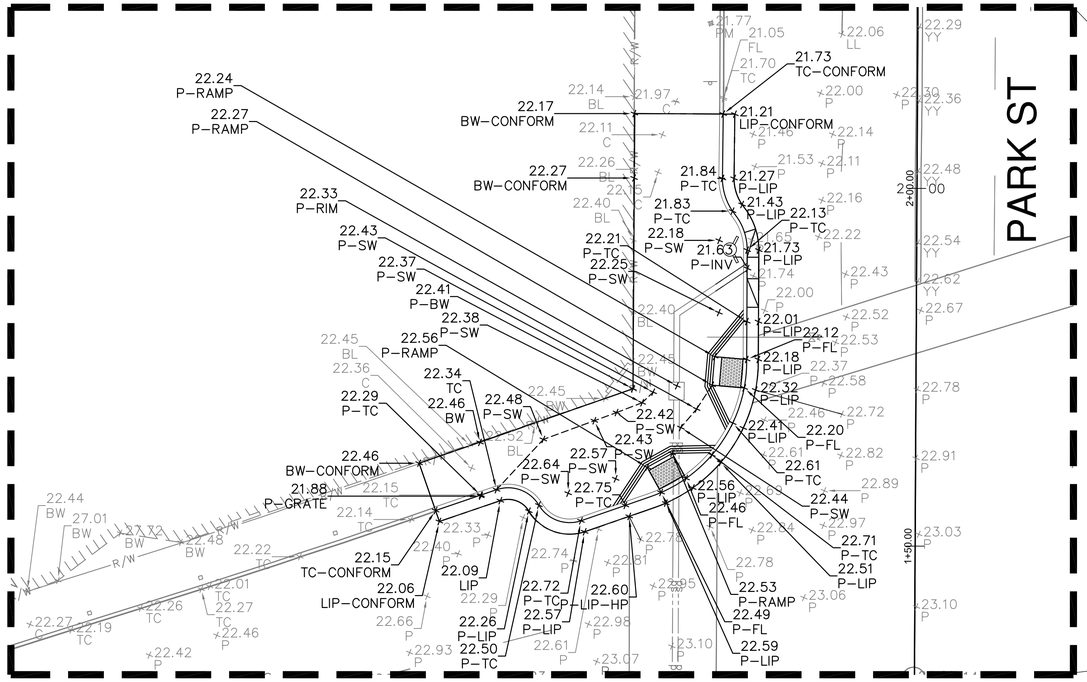
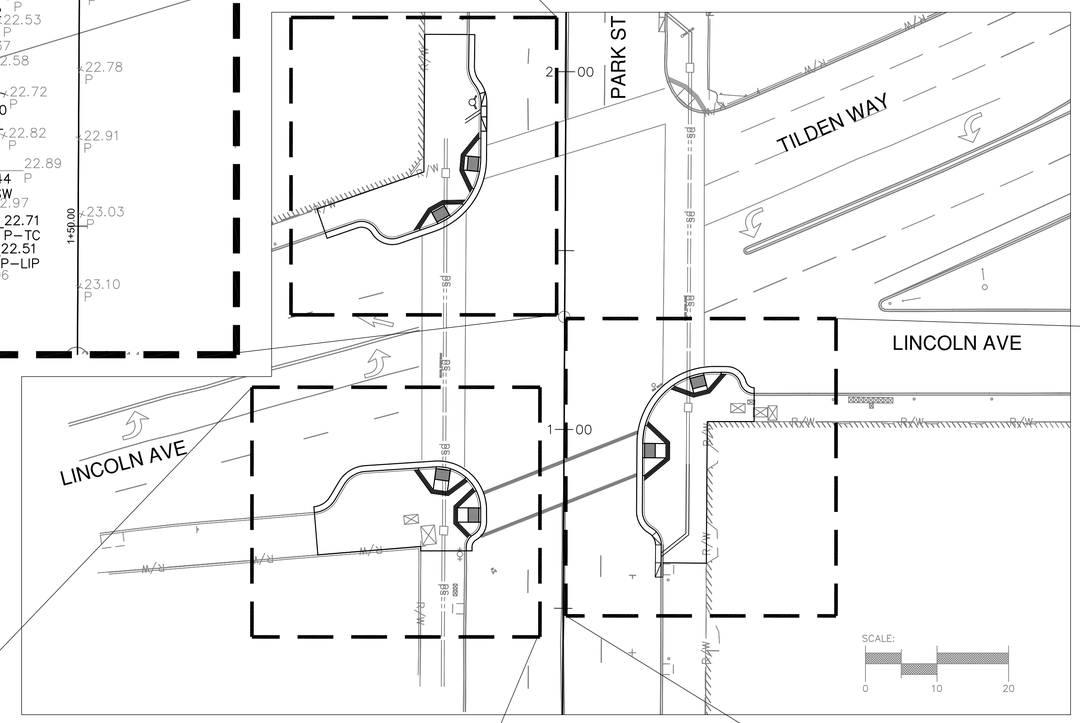
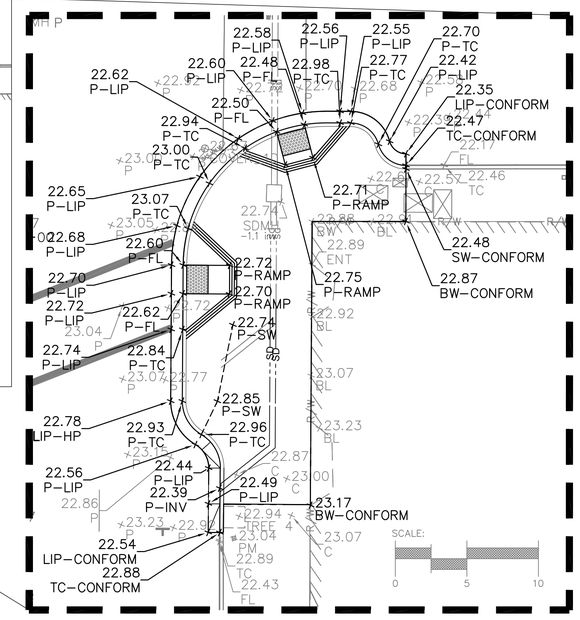
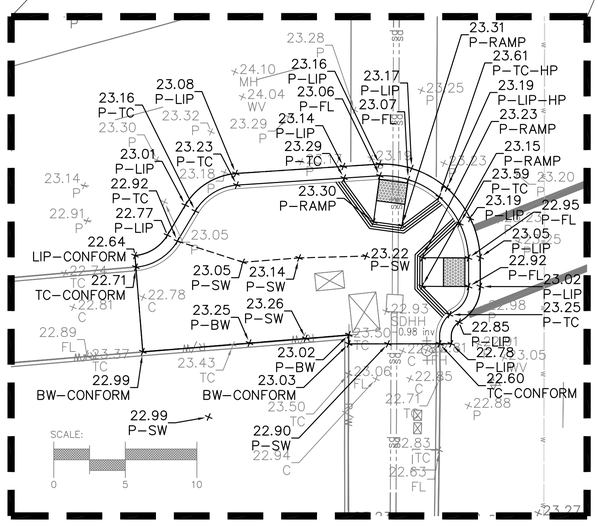








NOTES:

1. SEE DRAWING G-1.1 FOR GENERAL NOTES AND DRAWING GN-1.2 FOR CONSTRUCTION NOTES, ABBREVIATION AND LEGEND.
2. CONTRACTOR SHALL VERIFY INVERT PRIOR TO ORDERING MANHOLES AND INLETS.

LEGEND (FOR THIS DRAWING ONLY):

— — — GRADE BREAK

— - - — CONFORM LINE

(#) DRAINAGE SYSTEM NUMBER

(#) DRAINAGE ITEM NUMBER

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F. CHEONG
DRAWN A. HA
CHECKED T. KRAKOW
DATE 12-30-14
SCALE AS SHOWN

DKS
1970 Broadway, Suite #740
Oakland, California 94612-2219
Tel.: 510-763-2061
Fax: 510-268-1739

REGISTERED PROFESSIONAL ENGINEER THOMAS J. KRAKOW C48381 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

GRADING AND DRAINAGE PLAN – PARK & LINCOLN

APPROVED BY

CITY ENGINEER

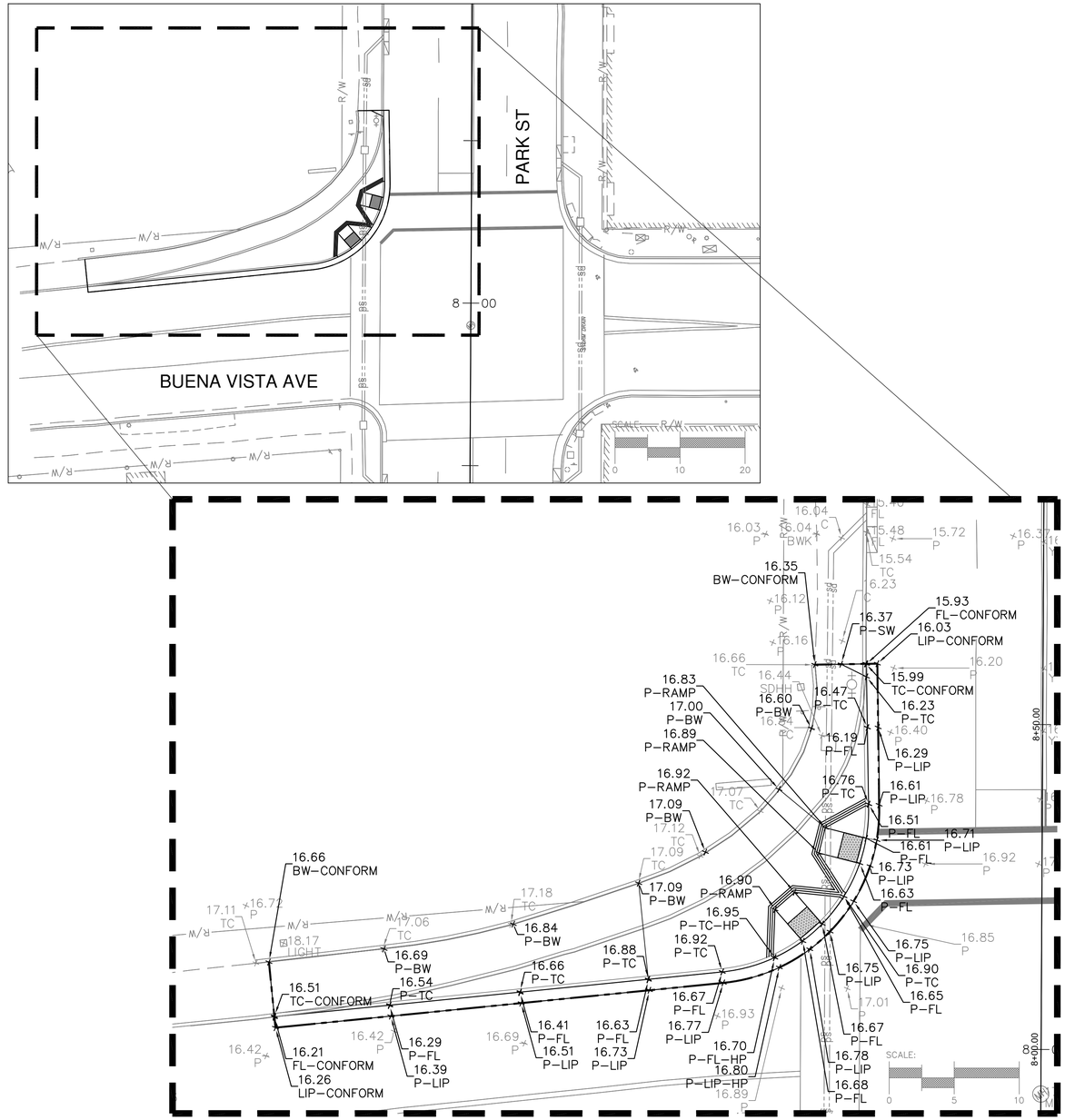
DATE

SHEET 11 OF 16

DWG. GD-1.1

CASE

P:\P\11\11043-001 alameda pedestrian safety project #1\CAD\PLAN\11043-001_GRADING AND DRAINAGE PLAN 1.dwg



NOTES:

1. SEE DRAWING G-1.1 FOR GENERAL NOTES AND DRAWING GN-1.2 FOR CONSTRUCTION NOTES, ABBREVIATION AND LEGEND.
2. CONTRACTOR SHALL VERIFY INVERT PRIOR TO ORDERING MANHOLES AND INLETS.

LEGEND (FOR THIS DRAWING ONLY):

— - - — CONFORM LINE

DKS
1970 Broadway, Suite #740
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REGISTERED PROFESSIONAL ENGINEER
THOMAS J. KRAKOW
C48381
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12-30-14
SCALE AS SHOWN

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

GRADING AND DRAINAGE PLAN – PARK & BUENA VISTA

APPROVED BY

CITY ENGINEER

DATE

SHEET 12 OF 16

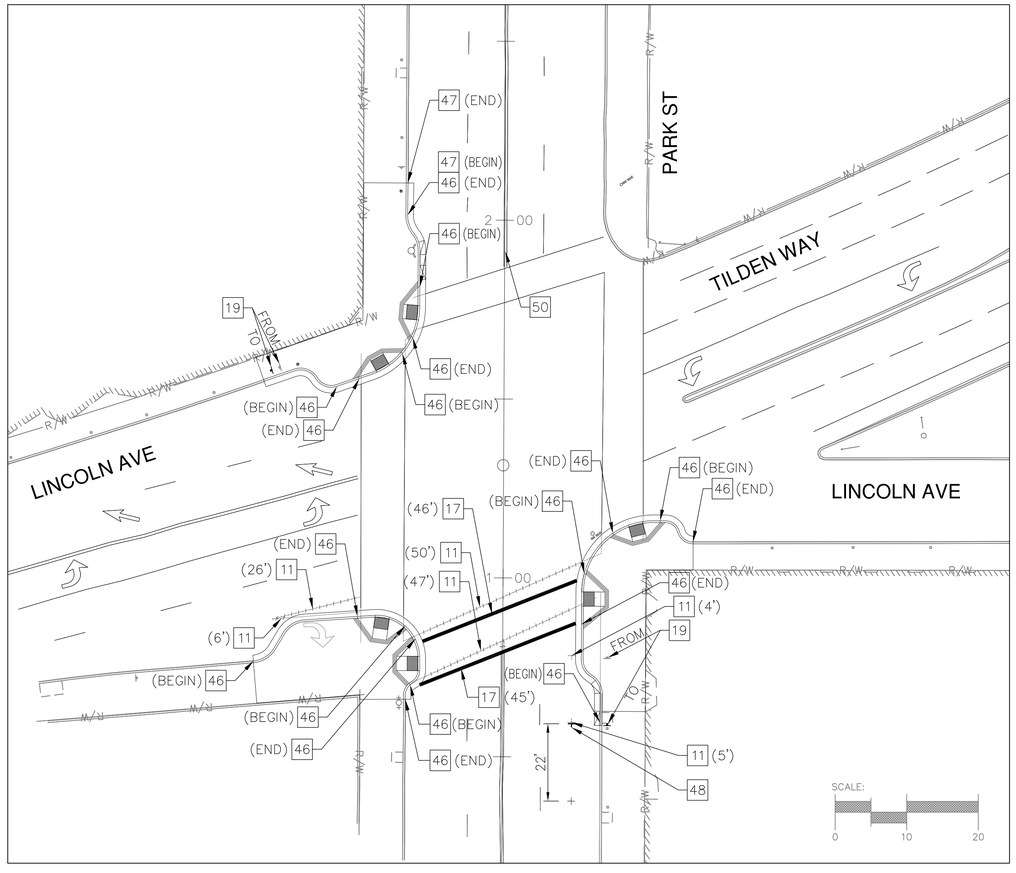
DWG. GD-1.2

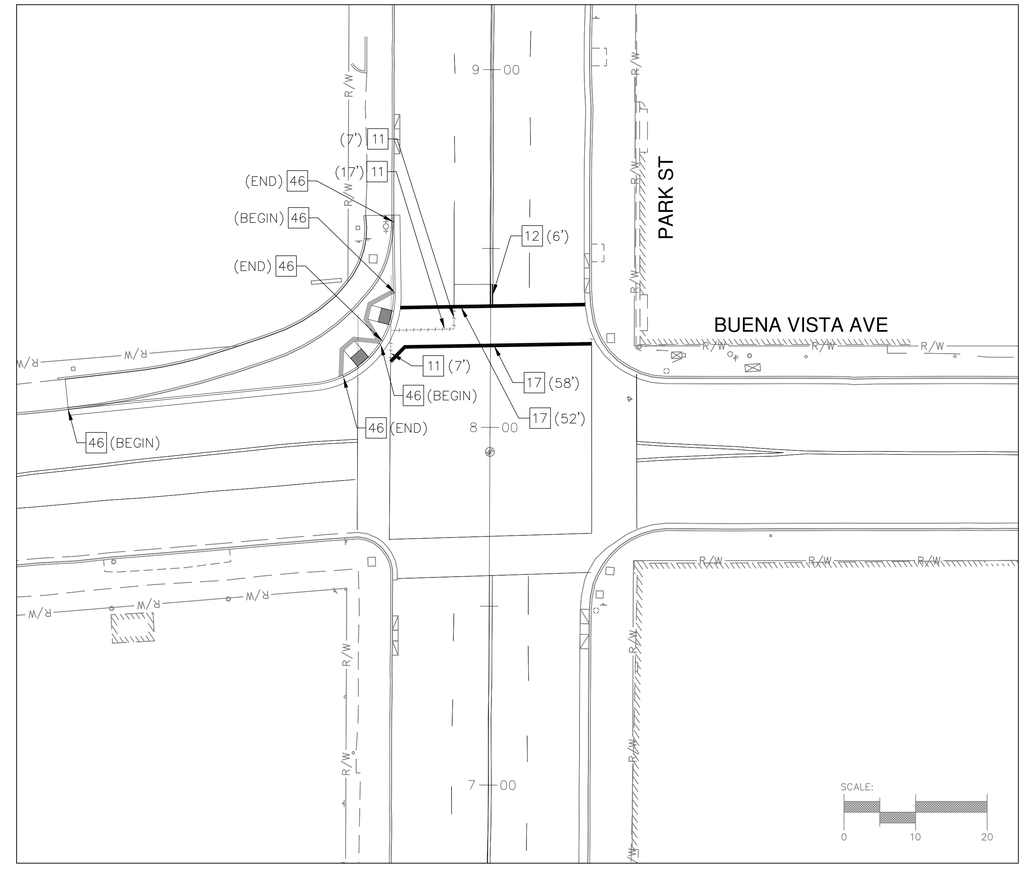
CASE

P:\P\11\11043-001 alameda pedestrian safety project #1\CAD\Plans\11043-001_GRADING AND DRAINAGE PLAN 2.dwg

NOTES:

1. SEE DRAWING G-1.1 FOR GENERAL NOTES AND DRAWING GN-1.2 FOR CONSTRUCTION NOTES, ABBREVIATION AND LEGEND..





DKS
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REGISTERED PROFESSIONAL ENGINEER
THOMAS J. KRAKOW
C48381
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12-30-14
SCALE 1" = 20'

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

SIGNING AND STRIPING PLAN - PARK & LINCOLN, PARK & BUENA VISTA

APPROVED BY

CITY ENGINEER

DATE

SHEET 13 OF 16

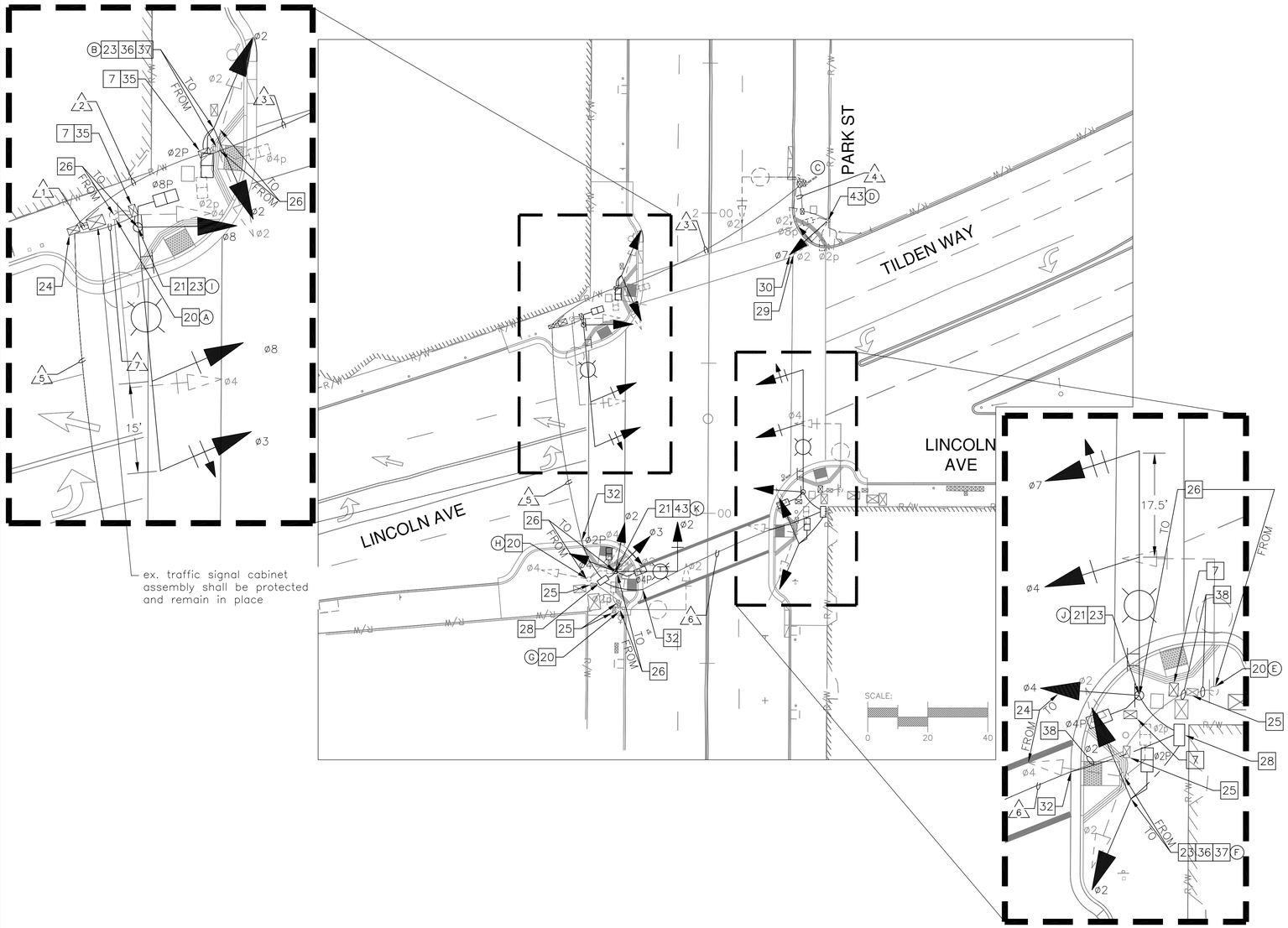
DWG. SP-1

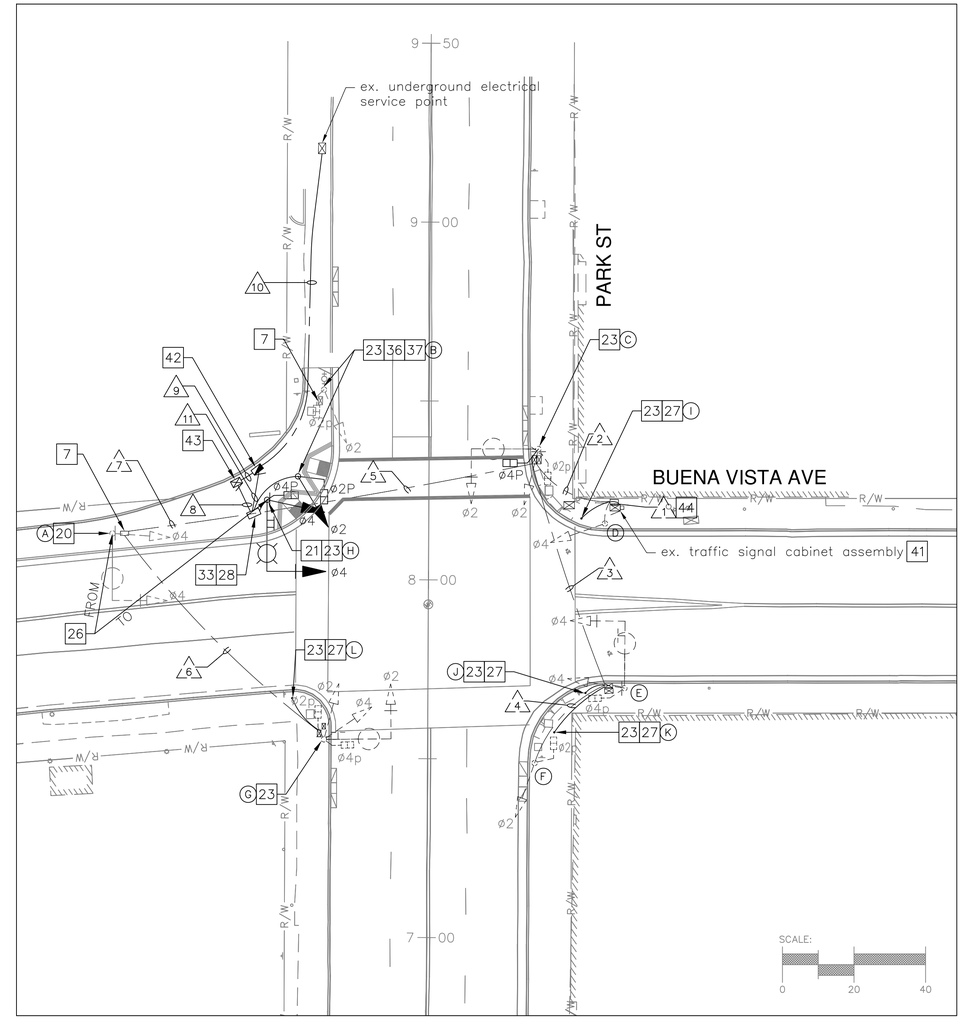
CASE

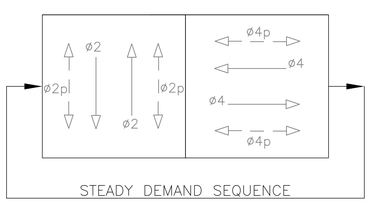
P:\P\11\11043-001 Alameda Pedestrian Safety Project #1\CAD\PLAN\11043-001_SIGNING AND STRIPING PLAN.dwg

NOTES:

1. SEE DRAWING G-1.1 FOR GENERAL NOTES AND DRAWING GN-1.2 FOR CONSTRUCTION NOTES, ABBREVIATION AND LEGEND.

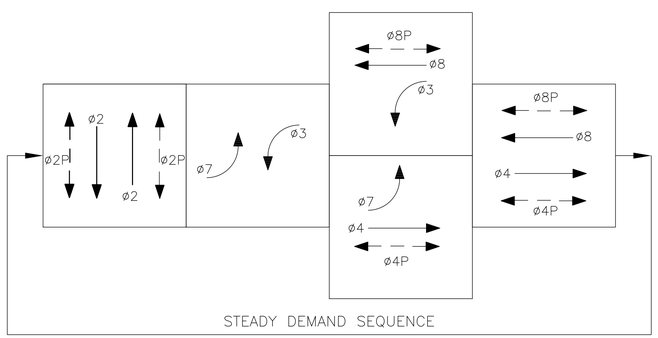






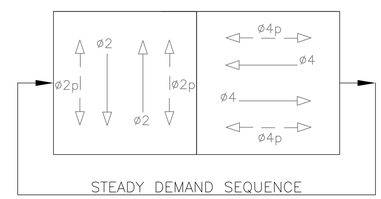
STEADY DEMAND SEQUENCE

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

PROPOSED PHASE DIAGRAM



STEADY DEMAND SEQUENCE

EXISTING PHASE DIAGRAM

DKS

1970 Broadway, Suite #740
Oakland, California 94612-2219
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REGISTERED PROFESSIONAL ENGINEER THOMAS J. KRAKOW C48381 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12-30-14
SCALE AS SHOWN

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

TRAFFIC SIGNAL PLAN – PARK & LINCOLN, PARK & BUENA VISTA

APPROVED BY

CITY ENGINEER

DATE

SHEET 14 OF 16

DWG. TS-1.1

CASE

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PARK ST & LINCOLN AVE/TILDEN WAY CONDUCTOR SCHEDULE

AWG	CONDUCTOR DESIGNATION	No. OF CONDUCTORS/RUN No.						
		1*	2*	3*	4*	5*	6*	7*
No. 14	ø2	6(N)	3(N)	3(N)	3(N)	3(N)	3(N)	–
	ø3	3(N)	–	–	–	3(N)	–	3(N)
	ø4	3(N)	–	–	–	3(N)	3(N)	–
	ø7	6(N)	3(N)	3(N)	3(N)	3(N)	3(N)	–
	ø8	3(N)	–	–	–	–	–	3(N)
	ø2P	4(N)	2(N)	2(N)	2(N)	2(N)	2(N)	–
	ø4P	2(N)	–	–	–	2(N)	2(N)	–
	ø8P	4(N)	2(N)	2(N)	–	–	–	2(N)
	ø2 PPB	4(N)	2(N)	2(N)	2(N)	2(N)	–	2(N)
	ø4 PPB	2(N)	–	–	–	2(N)	2(N)	–
	ø8 PPB	2(N)	2(N)	2(N)	2(N)	–	–	2(N)
	SPARE	6(N)	3(N)	3(N)	3(N)	3(N)	3(N)	3(N)
	TOTAL NO. 14	45(N)	17(N)	17(N)	15(N)	23(N)	18(N)	15(N)
No. 12	PHOTOELECTRIC UNIT (PEU)	3(N)	3(N)	3(N)	–	3(N)	3(N)	3(N)
	TOTAL NO. 12	3(N)	3(N)	3(N)	0	3(N)	3(N)	3(N)
No. 8	SAFETY LIGHTING	2(N)	2(N)	2(N)	–	2(N)	2(N)	2(N)
	GROUND	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)
	TOTAL NO. 8	3(N)	3(N)	3(N)	1(N)	3(N)	3(N)	3(N)
	SIGNAL INTERCONNECT CABLE (SIC)	1(E)	–	–	–	–	–	–
	CONDUIT SIZE	2"(E)	3"(E)	3"(E)	3"(E)	3"(E)	3"(E)	3"(E)
	CONDUIT % FILL	33	4	4	2	5	4	4

* REMOVE ALL EXISTING CONDUCTORS AND CABLES FROM CONDUIT EXCEPT AS NOTED WITH (E). FURNISH AND INSTALL NEW CONDUCTORS AND CABLES INTO EXISTING CONDUIT.

(E) EXISTING TO REMAIN

(N) NEW CONDUCTORS

PARK ST & BUENA VISTA AVE CONDUCTOR SCHEDULE

AWG	CONDUCTOR DESIGNATION	No. OF CONDUCTORS/RUN No.										
		1	2*	3*	4*	5*	6*	7*	8	9	10	11
No. 14	ø2	D	–	3(N)	3(N)	3(N)	3(N)	3(N)	6(N)	–	–	–
	ø4		3(N)	3(N)	–	3(N)	3(N)	3(N)	6(N)	–	–	–
	ø2P	E	–	2(N)	3(N)	2(N)	2(N)	2(N)	4(N)	–	–	–
	ø4P		–	2(N)	–	2(N)	2(N)	2(N)	4(N)	–	–	–
	ø2PPB	Z	2(N)	2(N)	–	2(N)	2(N)	2(N)	4(N)	–	–	–
	ø4PPB		–	2(N)	–	2(N)	2(N)	2(N)	4(N)	–	–	–
	SPARE	C	3(N)	3(N)	3(N)	3(N)	3(N)	3(N)	6(N)	–	–	–
	TOTAL NO. 14	D	8(N)	17(N)	9(N)	17(N)	17(N)	17(N)	34(N)	0	0	0
No. 12	PHOTOELECTRIC UNIT (PEU)		–	–	–	3(N)	–	–	–	–	–	3(N)
	TOTAL NO. 12		0	0	0	3(N)	0	0	0	0	0	3(N)
No. 8	SAFETY LIGHTING	Z	–	2(N)	–	2(N)	2(N)	2(N)	2(N)	–	–	2(N)
	GROUND		1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)
		A										
	TOTAL NO. 8		1(N)	3(N)	1(N)	3(N)	3(N)	3(N)	3(N)	1(N)	1(N)	3(N)
		B										
No. 6	TRAFFIC SIGNAL SERVICE		0	0	0	0	0	0	0	3(N)	0	0
No. 2	SERVICE GROUND	A	0	0	0	0	0	0	0	0	1(N)	0
1/0	SERVICE		0	0	0	0	0	0	0	0	2(N)	0
	CONDUIT SIZE	2"(E)	2"(E)	2"(E)	2"(E)	2"(E)	2"(E)	2"(E)	3"(N)	2"(N)	2"(N)	2"(N)
	CONDUIT % FILL	–	3	8	4	8	8	8	6	6	15	3

* REMOVE ALL EXISTING CONDUCTORS AND CABLES FROM CONDUIT EXCEPT AS NOTED WITH (E). FURNISH AND INSTALL NEW CONDUCTORS AND CABLES INTO EXISTING CONDUIT.

(E) EXISTING TO REMAIN

(N) NEW CONDUCTORS/CONDUITS

PARK ST & LINCOLN AVE/TILDEN WAY POLE & EQUIPMENT SCHEDULE

LOCATION	STANDARD			VEHICLE SIGNAL MOUNTING		PED SIGNAL MOUNTING	PED SIGNAL PHASING	PED PUSH BUTTON		LED LUMINAIRE WATT****	SPECIAL REQUIREMENTS **
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	MAST ARM	POLE			ø	ARROW		
A	ex. mast arm pole	ex.	ex.	ex.	ex.	–	–			ex.	
B	ex. 1–b pole	–	–	–	ex.	SP–1–T	ø2P	8	→	–	
C	ex. mast arm pole	ex.	ex.	ex.	ex.	–	–			ex.	
D	ex. 1–b pole	–	–	–	ex.	ex.	ø2p ø8P	2 8	→ →	–	
E	ex. mast arm pole	ex.	ex.	ex.	–	–	–			ex.	
F	ex. 1–b pole	–	–	–	SV–2–TA	SP–1–T	ø2p ø4p	4	→	–	
G	ex. mast arm pole	ex.	ex.	ex.	ex.	ex.	ø2p			ex.	
H	ex. 1–b pole	–	–	–	ex.	ex.	ø4p			–	
I	26–3–100	40'	12'	MAS MAS	SV–1–T	SP–1–T	ø8P	2	←	143W	
J	26–3–100	40'	12'	MAS MAS	SV–1–T	SP–1–T	ø4P	2	→	143W	
K	17–3–100	20'	12'	MAS MAS	SV–3–TA	SP–2–T	ø2P ø4P	2 4	← →	143W	

** OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATION.

*** SEE CALTRANS STANDARD PLANS, 2006 EDITION.

**** NEW SAFETY LIGHTING FIXTURES SHALL BE 143W LED GE EVOLVE ERS2 FIXTURES.

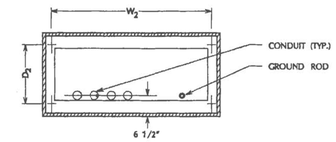
PARK ST & BUENA VISTA AVE POLE & EQUIPMENT SCHEDULE

LOCATION	STANDARD			VEHICLE SIGNAL MOUNTING		PED SIGNAL MOUNTING	PED SIGNAL PHASING	PED PUSH BUTTON		LED LUMINAIRE WATT****	SPECIAL REQUIREMENTS **
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	MAST ARM	POLE			ø	ARROW		
A	ex. mast arm pole	ex.	ex.	ex.	ex.	–	–			ex.	
B	ex. 1–b pole	–	–	–	ex.	ex.	ø2p	4	→	–	
C	ex. mast arm pole	ex.	ex.	ex.	ex.	SP–2–T	ø2p ø4P	4	←	ex.	
D	ex. 1–b pole	–	–	–	ex.	–	–			–	
E	ex. mast arm pole	ex.	ex.	ex.	ex.	ex.	ø4p			ex.	
F	ex. 1–b pole	–	–	–	ex.	ex.	ø2p			–	
G	ex. mast arm pole	ex.	ex.	ex.	ex.	ex.	ø2p ø4p	4	←	ex.	
H	17–3–100	20'	12'	MAS	SV–1–T	SP–1–T	ø4p	2	←	143W	
I	PPB POST	–	–	–	–	–	–	2	→	–	
J	PPB POST	–	–	–	–	–	–	2	←	–	
K	PPB POST	–	–	–	–	–	–	4	→	–	
L	PPB POST	–	–	–	–	–	–	2	→	–	

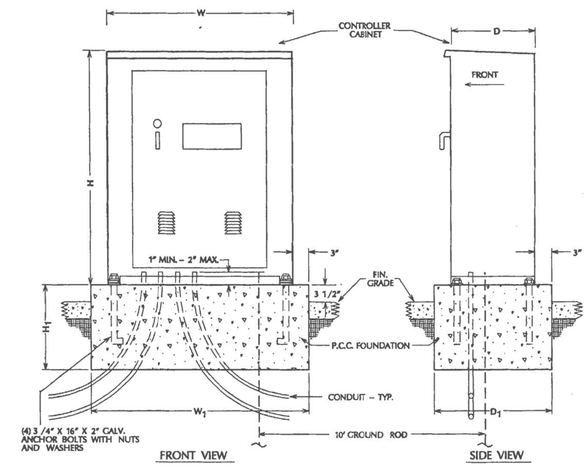
** OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATION.

*** SEE CALTRANS STANDARD PLANS, 2006 EDITION.

**** NEW SAFETY LIGHTING FIXTURES SHALL BE 143W LED GE EVOLVE ERS2 FIXTURES.



TOP VIEW



CONTROLLER CABINET /FOUNDATION DIMENSION TABLE

	CABINET			FOUNDATION			BOLT MOUNTING	
TYPE	H	W	D	H_1	W_1	D_1	D_2	W_2
P	55 9/16"	44"	26"	24"	50"	32"	18 1/2"	40 1/2"

TYPE P CABINET AND FOUNDATION DETAIL

N.T.S.

DKS

1970 Broadway, Suite #740
Oakland, California 94612–2219
Tel.: 510–763–2061
Fax: 510–268–1739

REGISTERED PROFESSIONAL ENGINEER THOMAS J. KRAKOW C48381 EXP. 6/30/16 CIVIL STATE OF CALIFORNIA

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED F.CHEONG
DRAWN A. HA
CHECKED T.KRAKOW
DATE 12–30–14 SCALE AS SHOWN

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENTS PROJECT

TRAFFIC SIGNAL SCHEDULE – PARK & LINCOLN, PARK & BUENA VISTA

APPROVED BY

CITY ENGINEER

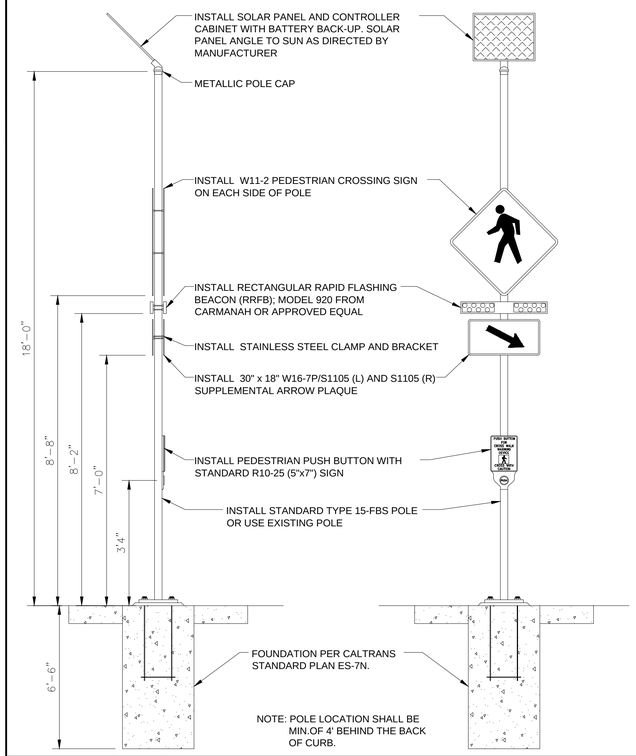
DATE

SHEET 15 OF 16

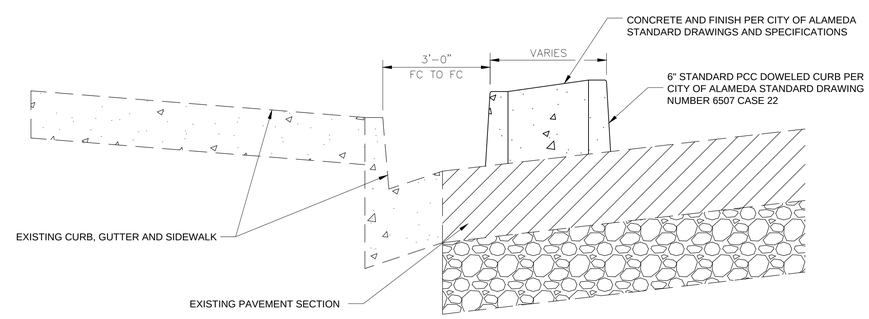
DWG. TS-1.2

CASE

P:\P\11\11043–001 Alameda Pedestrian Safety Project #1\CAD\Plots\Xrefs\PM043–001_TRAFFIC SIGNAL SCHEDULE.dwg



1	DETAIL A
N.T.S.	RE:



2	MEDIAN CROSS SECTION
N.T.S.	RE:

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED A.HA
DRAWN A.HA
CHECKED J.BHATTACHARYA
DATE 11-04-14
SCALE AS SHOWN

Stantec
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REGISTERED PROFESSIONAL ENGINEER
JOY BHATTACHARYA
No. 68928
EXP. 9-30-15
CIVIL
STATE OF CALIFORNIA

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

PARK STREET PEDESTRIAN SAFETY IMPROVEMENT PROJECT

CONSTRUCTION DETAILS

APPROVED BY

CITY ENGINEER

DATE

SHEET 16 OF 16

DWG. CD-1

CASE

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